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Hanford Atmospheric Dispersion Data: 1960 Through June 1967

Prepared by P. W. Nickola, J. V. Ramsdell, C. S. Glantz, R. E. Kerns

Pacific Northwest Laboratory
Operated by
Battelle Memorial Institute

Prepared for
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Hanford Atmospheric Dispersion Data: 1960 Through June 1967

Manuscript Completed: October 1983
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PREFACE

Our ability to prepare this data volume is due almost entirely to the efforts of the senior author, Paul W. Nickola. He was involved in the development of the experimental methods that made it possible to collect and assay the large number of samples affordably; he was involved in the field work during the experiments and in the assay of the samples; he collected and preserved the original data logs that were used in compilation of this volume, and he worked to have the data published so that others could benefit from them. Unfortunately, Paul isn't here to receive the credit that is due him.

Work on this data volume was begun before Paul's death in August 1982. He had organized the original data records and collected supporting documentation. To these, he had added comments that reflected his personal recollections on and insight to the experiments. Finally, he had begun to prepare the data for publication. This data volume follows the example he set in the Hanford 67-Series data volume (Nickola 1977).

We, the remaining authors, hope that our efforts in completing the data volume have been adequate in comparison with his. We have included all of the data that he assembled along with his annotations. In doing this, we may have included data that he would have excluded, and certainly, we have not been able to make further annotations as he would have.

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ACKNOWLEDGEMENTS

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ABSTRACT

This volume presents dispersion and supporting meteorological data from experiments conducted over relatively flat terrain at Hanford, Washington from January 1960 through June 1967. The nature of the experiments, the sampling grids, and the tracer techniques used are described in the narrative portion of the document. Appendices contain the time-integrated concentrations for samplers within the plumes, summaries of the concentration distributions across the plumes, and wind and temperature profile data for each release period.

ABSTRACT

This volume presents dispersion and supporting meteorological data from experiments conducted over relatively flat terrain at Hanford, Washington from January 1950 through June 1957. The nature of the experiments, the sampling grids, and the tracer techniques used are described in the narrative portion of the document. Appendices contain the time-integrated concentrations for samplers within the plumes, summaries of the concentration distributions across the plumes, and wind and temperature profile data for each release period.

EXECUTIVE SUMMARY

A large number of diffusion experiments were conducted on the Hanford diffusion grid from 1959 through 1974. These experiments involved surface and elevated releases of one or more tracers. Samples were collected near ground-level (1.5 m) at distances between 100 and 25,600 m and on towers to distances of 3200 m. This report contains the diffusion and supporting meteorological data for 134 releases made from 1960 through June 1967. It is anticipated that these data are pertinent to many current areas of research, despite their age. Data for most of the other Hanford experiments have been published in previous data volumes. With the publication of this volume, essentially all of the conventional diffusion data obtained in Hanford experiments through 1974 have been made available.

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INTRODUCTION

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The data volume is organized as follows: A narrative section briefly describes the Hanford experiments, the sampling grid, the tracers, tracer dispersal techniques, and sample collection and assay. The narrative section is followed by three appendices that contain the diffusion and supporting meteorological data. Appendix A contains the diffusion data for each of the experiments. The information presented includes: a description of the experiment by release height, time-of-day, tracer, amount released and wind speed; the normalized time-integrated concentrations (exposures) for each sampling position, and the crosswind integrated exposures for the ground-level samplers at each distance. Appendix B contains diffusion estimates derived from the data. These estimates include the mean, standard deviation and coefficients of skewness and kurtosis of the crosswind concentration distributions, the three highest exposures at each distance, and the crosswind integrated exposures for each distance. Finally, Appendix C contains the supporting meteorological data for the experiments. These data include vertical profiles of temperature, wind speed, wind direction and standard deviation of the wind direction for each release period.

INTRODUCTION

A large number of diffusion experiments were conducted on the Hanford diffusion grid from 1959 through 1974. These experiments involved surface and elevated releases of one or more tracers. Samples were collected near ground-level (2.5 m) at distances between 100 and 25,000 m and on towers to distances of 3200 m. This report contains the diffusion and supporting meteorological data for 134 releases made from 1960 through June 1967. It is anticipated that these data are pertinent to many current areas of research, despite their age. Data for most of the other Hanford experiments have been published in previous data volumes. With the publication of this volume, essentially all of the conventional diffusion data obtained in Hanford experiments through 1974 have been made available.

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THE HANFORD DIFFUSION EXPERIMENTS

The Hanford diffusion experiments have been assigned identifying names or codes. The names are associated with groups of experiments having similar objectives and experimental designs.

The first, and best known group of experiments, was Green Glow. These experiments were conducted during the summer of 1959 and consisted of 28 releases of fluorescent pigment (ZnS) near ground-level during nighttime, stable atmospheric conditions. The data for the Green Glow experiments have been published by Barad and Fuquay (1962a and 1962b).

The Hanford 30 series experiments from 1960 through 1962 followed the Green Glow design except that they were conducted during neutral and unstable atmospheric conditions. There were 42 releases in the 30 Series, giving a total of 70 ground-level releases in the combination of the Green Glow and 30 Series. Fuquay, Simpson and Hinds (1964) presented a summary of the data from the best of the Green Glow and 30 Series experiments. This volume contains the available 30 Series data. Data for 8 of the tests are missing.

The U Series experiments were started in 1960 and continued through 1969. These experiments departed from the Green Glow design by using elevated release points. This is the largest group of Hanford experiments. Of the 92 experiments in the U Series, the first 53 were conducted under neutral and unstable atmospheric conditions, and the last 37 were conducted under stable conditions. The number of tracer releases in the U Series was larger than the number of experiments because, starting at test U 40, each experiment involved the simultaneous release of ZnS and fluorescein at different heights. Nickola (1977) presents the data for experiments U-56 through U-92; the data for experiments U-2 and U-5 through U-55 are contained in this volume.

Prior to changing the U Series emphasis from neutral and unstable atmospheric conditions to stable atmospheric conditions, two sets of preliminary experiments were conducted. These were the '63 and '64 Series experiments. In all, there were 33 experiments in these two series. This volume contains the data for the '63 and '64 Series experiments with the exception of '63-2 and '64-3.

The last two major experimental series at Hanford were krypton-85 releases that occurred between 1967 and 1974 and the V Series experiments in 1972 and 1973. The krypton-85 experiments consisted of 19 puff and continuous releases near ground-level. They provide data on the temporal variations of concentration as well as time-integrated concentrations. During the early experiments in this series, the sampling was conducted along the 200 and 800 m sampling arcs used initially in the Green Glow experiments. During the later krypton

experiments, special sampling grids were used when low wind diffusion measurements were being made. Data for the initial krypton-85 experiments are published in Nickola, Ramsdell and Ludwick (1970), and time-integrated data for these experiments are also contained in Nickola (1977).

The eight V Series experiments were conducted to evaluate the depletion of particulate plumes by deposition. The experiments consisted of multiple tracer releases from a height of 26 m. The tracers used were ZnS, rhodamine dye, and krypton-85. Concentration measurements were made on towers and at ground-level. The data for these experiments are contained in Nickola (1977).

In addition to the seven experimental series just mentioned, there were many other releases on the Hanford diffusion grid and at other locations on the Hanford site. Some of these releases have been combined into seven secondary series. These secondary experimental series were generally related to development of new tracer techniques. Where appropriate, previously unpublished data for these secondary series have been included in this volume.

The MT Series of 4 releases from 1962 through 1964 was related to the development of multiple tracer techniques, and four D Series releases in 1967 carried the multiple tracer technique development further by providing data for evaluation of simultaneous releases from a common source. Data for the D Series experiments were published by Nickola (1977). Data for the last three MT experiments are included in this volume. This volume also contains the data from the single Z experiment conducted in 1962.

Four X Series releases in 1964 were made to evaluate trichloroethane as a carrier for use in dispersing ZnS particles in place of water. The data for two of these releases are included in this data volume.

Two series of tests have been given an A designator. The first A Series occurred in 1964 and 1965, and the second in 1966 and 1967. Both sets of releases were made to test a real-time sampler for ZnS and to evaluate use of the sampler in moving vehicles and aircraft. Ground-level fixed samplers were activated for some of these releases. Available data from the fixed samplers for these experiments have been included in this data volume.

In 1965, there were five multiple tracer experiments in which xenon-133 was one of the tracers. These experiments, known collectively as the Xenon Series, were to evaluate xenon for use as a non-depositing tracer in studying the dry deposition of ZnS and fluorescein. The other tracers in these experiments were ZnS and fluorescein. Data for all of these experiments are included in this data volume.

The last secondary experimental series of consequence is the PECON Series. This series consisted of 11 ZnS releases made near the Hanford diffusion grid from 1965 through 1967. Seven of the releases were made at the upwind corner of a small building having a rectangular cross-section, and the remaining releases were made under similar meteorological conditions over flat terrain without any obstructions. Samples were collected to a distance of 100 m using both fixed samplers and a real-time sampler. Hinds (1967 and 1969) describe the experiments in detail and present analyses of the PECON data.

The chronological relationship among the sets of experiments is summarized in Figure 1. Table 1 shows the distribution of the releases of ZnS, fluorescein and rhodamine by release height and time-of-day. Time-of-day is roughly equivalent to atmospheric stability.

Table 1. Distribution of Tracer Releases by Time-of-Day and Release Height, Number of ZnS Releases/Number of Fluorescein and Rhodamine Releases

Time-of-Day	Release Height (m)				
	1	7	26	56	111
0000-0159	6/5		17/0	6/19	9/0
0200-0359	10/12	11/0	8/0	6/2	3/0
0400-0559	24/4	7/0	3/5		
0600-0759	2/1	1/0			
0800-0959	5/0	1/0	2/2	5/0	
1000-1159	8/4		9/3	15/0	1/0
1200-1359	2/2		4/1	10/0	
1400-1559	2/2		2/0	8/0	
1600-1759	1/1		1/0		
1800-1959					
2000-2159	17/0				
2200-2359	15/1		1/0

FIGURE 1. Diffusion test: chronology.

THE FIELD GRID

Hanford is located in a semi-arid region in the southeast corner of the State of Washington. The natural vegetation in the area is sagebrush, 1 to 2 m in height, interspersed with steppe grasses. Figures 2 through 5 give some idea of the nature and density of the vegetation. Boundary layer wind measurements indicate that a roughness length of 0.03 m is generally appropriate for Hanford.

The Hanford diffusion grids are located near the center of an approximately 40 km diameter basin. The center of the basin is about 200 m above mean sea level, and the hills and bluffs that nearly surround the basin reach as high as 1000 m msl. Figure 6 shows the diffusion sampling grids superimposed on a contour map. The bulk of the sampling arcs are located in a relatively flat area where the extremes in elevation range from 200 m to 230 m msl. The elevation of the most distant tracer sampling arc shown, 12.8 km from the source, is about 35 m lower than the nearer-source sampling arcs. A more distant sampling arc (25.6 km) was used during the Green Glow experiments, but was not used during any of the experiments reported on in this data volume.

The approximately 1000 primary or "ground-level" samplers on the Hanford diffusion grids are located at a height of 1.5 m, a height that approximates the breathing height of man. Samples are collected by drawing air through filters using vacuum pumps. Power for the field vacuum pumps is supplied by gasoline or propane fueled internal combustion engines. A single engine/pump assembly draws vacuum for 1 to 9 sampling stations depending on the flow rate required at the stations. The flow at each sample station is controlled by a critical flow orifice in the vacuum line just downstream of the filter-filter holder assembly. Flow through each sampler is constant as long as the pressure drop across the control orifice is greater than one-half atmosphere. The pressure drop for each engine/pump assembly is monitored by a vacuum gauge in the vacuum line immediately downstream of the orifice at the most remote sampler serviced by that assembly.

Ground-level sampling stations are supplemented by 365 tower-mounted sampling stations. The towers as tall as 62 m and as far removed as 3.2 km from the tracer release point, are discussed in more detail later in this section. Vacuum and flow control for the tower samplers are accomplished in the same manner as for the ground-level samplers.

The sampling grid(s) used at Hanford evolved from grids laid out in 1959 and 1960. The grids were designated the "U" and the "S" grids because their original uses were restricted to thermally unstable (U) and thermally stable (S) atmospheres, respectively. The U-grid is laid out as a series of circular arcs, concentric about a 122 m tower. This configuration can be seen in Figures 3 and 4. In these figures, several

Figure 2. View looking south along arc 1600 m from S-source.

FIGURE 3. Aircraft View of Near-Source Arcs on Hanford Diffusion Grid

FIGURE 4. Aircraft View Showing Sampling Arcs to Distances of 1600 m from U- and S-sources

FIGURE 5. Insecticide sprayers used in dispensing ZnS and fluorescein

FIGURE 6. The diffusion grids superimposed on a contour map

of the arcs on this grid are labeled with the letter "U" followed by the radial distance in meters from the source to the arc. The design specifications for the U-grid, including the arc distances and the crosswind extent of the arcs, are given in Table 2. However, not all of the arcs, nor even all of the samplers on any selected arc, were used during a given field experiment. Experimental objectives, meteorological conditions, and the manpower available were factored into decisions as to which samplers should be activated.

Two more "arcs" of opportunity were laid out with azimuths related to the U-source. These so-called arcs were not arcs of circles, but were merely tracer sampling stations set out along existing roads or trails. They were dubbed the U5000 and U7000 arcs in correspondence with the approximate source-to-sampler distances involved. Figure 6 shows the configuration of the U5000 and U7000 arcs.

The S-grid source, used with only near ground-level tracer releases, is located 100 m due south of the U-grid source. This location was selected to minimize the wake effect of buildings at the base of the 122 m tower. Figure 5 is a view looking "upwind" from the S-source. The S-source is also indicated in Figures 3 and 4. There are fewer concentric arcs on the S-grid than on the U-grid. The three arcs closest to the S-source are darkened and labeled in Figure 4. S-grid arcs used for the experiments documented here were S200, S800, S1600, S3200 and S12800. The number designation, as with the U-arcs, gives the radial distance in meters from S-source sampling arc. Further detail on the S-grid is given in Table 2.

There are twenty towers, instrumented for tracer sampling, on the S-grid. These towers are located at azimuths of 98, 106, 114, 122 and 130 of the S200, S800, S1600 and S3200 arcs. The tower heights are 27, 42, 62 and 62 m on the S200, S800, S1600 and S3200 arcs, respectively.

Table 2. Design Specifications of Hanford "U" and "S" Diffusion Grids

Grid Source ¹ and Distance from Source (m)	Range ² of 1.5 m Sampling Azimuths	Sampler Spacing	Sampler Flow Rate (x 10 ⁻⁴ m ³ /sec)	Towers		
				Samples/ Tower	Height (m)	
U100	340° to 122°	4°	5.07	17	33	102°, 110°, 118°, 126°, 134°
U200	342° to 160°	4°	5.07			
U300	340° to 120°	4°	5.07			
U400	342° to 154°	4°	5.07			
U500	340° to 120°	4°	5.07			
U600	342° to 122°	4°	5.07			
U700	340° to 120°	4°	5.07			
U800	340° to 121°	3°	5.07			
U1000	001° to 121°	2°	9.09			
U1200	360° to 156°	2°	9.09			
U1600	360° to 122°	2°	9.09			
U3200	360° to 114°	2°	17.5			
U7000 ³	76° to 146°	2°	17.5			
S200	68° to 158°	2°	1.48	17	27	98°, 106°, 114°, 122°, 130°
S800	70° to 160°	2°	1.53	18	42	98°, 106°, 114°, 122°, 130°
S1600	70° to 154°	1°	2.32	19	62	98°, 106°, 114°, 122°, 130°
S3200	72° to 157°	1°	5.13	19	62	98°, 106°, 114°, 122°, 130°
S12800	91° to 151°	1°	17.5			

¹Source "U" is at 122-m tower; Source "S" is 100-m south of Source U.²Not all samplers activated during each experiment.³Approximate distance only.

TRACER TECHNIQUES

Data are presented in this volume for three different tracers released in the Hanford experiments of the early and mid-1960's. The tracers were: a zinc sulfide fluorescent powder (ZnS or FP), fluorescein, and xenon-133, a radioactive inert gas. A third fluorescent tracer, rhodamine, and another radioactive inert gas, krypton-85 were used in some of the experiments in the late 1960's and 1970's, which are reported in the Hanford 1967 Series Data Volume (Nickola 1977). The particulate tracers were collected on membrane filters, and concentrations were determined using laboratory procedures that made use of the fluorescent properties of the tracers. Assay techniques were able to discriminate among the tracers to the extent that collection of ZnS and fluorescein on a common filter did not result in an analytical problem.

ZINC SULFIDE FLUORESCENT PARTICLES

Use of fluorescent paint pigment (FP) as an atmospheric tracer was initiated in 1946 and documented in 1955 at Stanford University under the auspices of the U.S. Army Chemical Corps (Leighton 1955). The Hanford meteorology group began investigation of the use of such fluorescent pigments in 1952, and made use of FP field techniques on a relatively modest scale through 1958. An optical-electronic device, called a Rankin counter, developed in 1958 (Rankin 1958; Barad and Fuquay 1962a) increased the speed of the laboratory assay of FP samples by eliminating a tedious "man-and-microscope" sample assay procedure. This development made possible the analysis of the large number of samples collected during the Green Glow and subsequent Hanford field diffusion programs.

The FP selected for use in the Hanford techniques was Helecon Fluorescent Pigment 2210 manufactured by U.S. Radium Corp., Morristown, New Jersey. It is ZnS with an activator placed interstitially in its crystalline structure. These particles have a specific gravity of 4.1. Based on optical microscope sizings at 1000X magnification, the number median (geometric mean) diameter of FP 2210 is about 2.1 μm . Assuming that Stokes' law for spheres applies, the terminal fall velocities should be between 1.9 m/hr and 7.6 m/hr.

The ZnS tracer was dispensed through a commercial insecticide sprayer. Two of these devices are shown in Figure 5. A measured quantity of the tracer (generally 1 to 4 kg) was added to a known volume of liquid carrier in an approximately 200 l cylindrical tank (Figure 5) and maintained in suspension by a heavy-duty industrial propeller. The tracer-carrier suspension was drawn directly from the cylindrical tank by the commercial sprayer unit and pumped to a nozzle assembly. There it was atomized by mixing with a jet of heated air as it was dispensed. The mass of tracer dispensed in an experiment was determined by measuring liquid level in the tank before and after the release.

The rate at which the tracer is released with this technique has been demonstrated to be constant. Further details of the rate determination --and of the wet dispensing technique--are given in Chapter V of the Green Glow documentation (Barad and Fuquay 1962a).

The possibility that the wet dispensing technique could result in a significant agglomeration of individual tracer particles has been considered. However, in the years preceding development of the Rankin counter, a great number of filters were examined and particles were visually counted with the aid of a microscope and ultra-violet illumination. Very few agglomerates were observed during these microscopic examinations, even though the wet dispensing technique was in use at that time.

The temperature of the air used in the atomization was approximately 400°C. Evaporation of the liquid carrier aided in the dissipation of heat so that the effluent from the generator felt dry and thermally comfortable to the hand within 1 to 2 m of the nozzle.

In the early and mid 1960's, the liquid carrier used was water. Some concern developed over the possibility that, under high humidity conditions, the evaporation of the water carrier in the nozzle spray might take place so slowly that there would be gravitational settling. Therefore, a more volatile liquid, trichloroethane (CH_3CCl_3), was used as the carrier for ZnS for most of the experiments conducted after the summer of 1963. Although it is difficult to assess any differences in the data that might be due to the change in carrier, qualitatively at Hanford there was no obvious effect attributable to the carrier.

One problem that was associated with use of trichloroethane was that it did not act as a lubricant for the insecticide sprayer, as water apparently did. Many more mechanical difficulties or failures of the tracer dispensing equipment occurred when trichloroethane was used.

A comment should be made regarding the high temperature to which the ZnS fluorescent particles were subjected during the dispersal process. There was concern that the 400°C temperature might alter the fluorescent properties of the tracer even though the high temperature was experienced for only a fraction of a second. In 1963, Nickola (Nickola and Scoggins 1964) subjected samples of FP 2210 to temperatures of 1000°C for periods up to 20 sec. There were no discernible changes between the pre-heated and post-heated masses indicated when the samples were assayed using the Rankin counter.

It was also demonstrated by Nickola and Scoggins (1964) that FP 2210 was not affected by exposure to bright sunlight -- as has been observed for other fluorescent powders (Eggleton and Thompson 1961). Filters were selected from a field experiment in which the release, sampling and filter retrieval all occurred during hours of darkness. The filters

were stored in an opaque box until they were assayed for FP 2210. After the initial assay, the filters were exposed to bright sunlight for more than 7 hours and then reexamined. (The Rankin counter does not destroy or alter the samples.) There was no reduction in the measured mass of FP on the filters.

Three different filters have been used to collect particulate samples at Hanford. AM-1 filters were used prior to 1962; GM-1 filters were used from 1962 through mid-1965, and VM-1 filters have been used since mid-1965. The filters are 47 mm in diameter and offer a compromise between the opposing requirements of minimal restriction to flow through the filter and a relatively hard, flat surface upon which the ZnS can be retained. The filter is inserted into a polyethylene filter holder assembly that leaves a 41 mm diameter circular area exposed for tracer collection.

Figure 7 shows several of these assemblies in place in the turntables of the Rankin counter. Between the counters, two of the filter assemblies are shown turned face down to display the ribbed nozzle which can be inserted in an neoprene grommet at each field sampling location. A dust cap (as on the assembly marked "1-122" on Figure 7) is placed over the filter-filter holder assembly during handling and storage. To minimize tracer contamination from experiment to experiment, filter-filter holder assemblies are used only once.

An assembled Rankin counter is shown at the right in Figure 7, and one with top removed to expose a turntable is shown at the left. Filters are assayed by removing the dust cap and inserting the remaining filter-filter holder assembly into a circular cavity in the turntable. Several filters can be seen in these cavities in Figure 7. The turntable is rotated until the filter to be assayed lies directly below a multiplier phototube. Here a 200-microcurie plutonium source, in the shape of an annulus about the face of the phototube, bombards the face of the filter with alpha particles. If there is any FP on the filter face, it is excited to fluorescence by the alpha bombardment. The resulting scintillations are monitored by the phototube, amplified and counted by a scaler. By retaining the bulk of the FP on its surface rather than allowing deeper penetration, the filter enhances the probability of the short-range alpha particles reaching the FP and of the resulting scintillations being seen by the photomultiplier.

Design of the Rankin counter permits the operator to insert or remove filters from the turntable at the same time another filter is being counted under the phototube. This procedure is a significant time saver in view of the large number of filters assayed for each experiment.

The relationship between the count from the Rankin counter and the mass of ZnS on the filter is essentially linear over a wide range. The linearity has been determined by comparing Rankin counter and X-ray

FIGURE 7. Assembled Rankin counter (right) and disassembled Rankin counter (left) with several field filter assemblies in place for assay

fluorescence evaluation of many filters. Perhaps as a result of differences in filter surface characteristics, the Rankin counter calibration is a function of filter type.

The Rankin counter underwent primary calibrations against a series of filters of well-established mass several times during the experimental series. The calibration for the AM-1 and GM-1 filters used in most of the experiments reported here is

$$M = 5.23 \times 10^{-10} C$$

where M is mass of ZnS FP 2210 in grams and C is Rankin counts/min. The calibration for the VM-1 filters used for the experiments reported in the Hanford 67-Series data volume and a few of the more recent experiments in this data volume is

$$M = 2.06 \times 10^{-10} C$$

The level of detection with confidence is considered to be 20 counts/min (about 3 times the maximum field background), and the corresponding mass is about 4×10^{-9} grams. Count rate reproducibility is good with the Rankin counter, particularly at the higher count rates. The ratios of count rate standard deviation to mean count rates for 100, 1000, 10,000 and 100,000 counts/min are 0.16, 0.048, 0.038 and 0.012, respectively.

The Rankin counter is checked, and tuned electronically, if necessary, against a standard filter that is left in one of the twelve turntable cavities. Inasmuch as the standard filter is counted each time it passes beneath the photomultiplier, a secondary calibration occurs once for each 10 field filters assayed. A background filter occupies the twelfth turntable cavity.

The normal counting time used with the Rankin counter is one minute. Unexposed filters generally have zero counts, and field exposed background filters have counts from 0 to about 6 due, presumably, to foreign fluorescent material in the ambient atmosphere. Despite all precautions there is strong evidence of contamination of a small number of exposed filters. This contamination is generally associated with tower samples where it was more difficult to minimize the handling of filter assemblies during field deployment and collection.

Atmospheric dust -- or carbon from the internal combustion engines associated with the field vacuum system -- can collect on the filter face and reduce the number of scintillations seen by the photomultiplier tube. To evaluate this effect, a series of previously assayed filters

that had a clean appearance were intentionally subjected to tracer-free but dust-laden air. The filters were then ranked subjectively from 1 (clean) to 10 (extremely heavy dust load) according to their post-dust visual appearance and re-assayed. It was found that the count rates of filters with dust ratings of 4 or less were essentially unaffected by the dust. With successively higher dust ratings, increasingly greater count rate degradation was observed. Therefore, dust ratings are indicated in data in Appendix A for filters graded 5 or greater.

A liquid scintillation counting technique (Barad and Fuquay 1962a; Ludwick and Perkins 1961) is available that, to a large extent, overcomes the ZnS assay problems caused by dust-laden filters. However, the laboratory procedure is a much more tedious "wet" procedure than the simple Rankin counting approach. This fact, plus the relatively few dusty filters encountered during the experimental series, led to a decision not to employ the more elaborate "wet" assay technique.

In order for a filter to properly sample particles carried in air, the air velocity through the filter face should equal the ambient air velocity. In this isokinetic flow situation, the streamlines of the flow neither diverge nor converge at the filter. Therefore, particles carried with the fluid are sampled properly. However, if the velocity through the filter is substantially greater or less than the ambient air velocity, the particles will not (by virtue of their greater density than air) faithfully follow the streamlines in the vicinity of the filter.

Sehmel (1966) investigated non-isokinetic sampling effects in a wind tunnel study using ZnS FP 2210 and the standard Hanford field filter. He derived corrections for non-isokinetic flow which are functions of wind speed and filter flow rate. On the Hanford grids, the filter face velocities are essentially always less than ambient wind speed, resulting in sub-isokinetic sampling. As a result, Sehmel's corrections have been applied to all the ZnS data presented in this report.

FLUORESCEIN

An atmospheric tracer technique using uranine dye, the sodium salt of fluorescein, was reported by Robinson, Macleod and Lapple (1959). The possibility of using this dye as a tracer to complement the existing ZnS FP 2210 technique was first investigated at Hanford in 1961, with early field results reported by Ludwick (1961), Ludwick and Nickola (1963) and Nickola (1965). The term fluorescein, rather than the specific salt, uranine, has been applied to the dye in Hanford nomenclature. This dye is available through industrial chemical suppliers.

Fluorescein has a specific gravity of 1.53. Based on microscope sizing at 1000x magnification, the specific batch of fluorescein used had a number median diameter of $1.4\text{ }\mu\text{m}$ and a mass median diameter of $18.6\text{ }\mu\text{m}$. The number and mass median diameters translate to terminal fall velocities of about 0.4 and 64 m/hr if Stokes' law is applied.

As with the ZnS, fluorescein was dispensed using a commercial insecticidal sprayer. The liquid carrier used with fluorescein in the experiments reported here was water. In later experiments (Nickola 1977), trichloroethane was used as the carrier. The technique used to dispense the fluorescein was as described for the ZnS releases.

The same filters were used to collect fluorescein and ZnS. In the cases where both ZnS and fluorescein tracers were used simultaneously, the ZnS assay of the dry filters was carried out first. The filters were then placed in individual glass vials. Distilled water was added to dissolve the fluorescein particles, leaving the insoluble ZnS on the filter. The fluorescein solution was then assayed using a calibrated spectrophotofluorometer with excitation and emission wave lengths tuned for optimum performance. The analytical technique is explained in greater detail in Ludwick and Nickola (1963).

Although less than 1×10^{-11} gram of fluorescein is detectable under laboratory conditions, atmospheric pollutants and filter-to-filter background variation make 5×10^{-9} grams a more realistic estimate of the detection limit for actual samples. The variation in background made definition of the tails of crosswind or vertical tracer distributions more difficult with fluorescein than with ZnS. In contrast with the deleterious effect of dust on the ZnS assay, the assay of fluorescein in solution was minimally affected by dust.

Although no laboratory tests were made to directly investigate the possible effects of the subjection of fluorescein to high temperatures during dispersal, Nickola (1965) found that ZnS and fluorescein released from the same location gave compatible downwind field concentrations. Reduction of fluorescence due to mixture with air at 400°C caused no obvious problems in these 1964 field tests. No corrections have been made for non-isokinetic sampling of fluorescein.

XENON

In 1965 five releases of xenon-133 were made to evaluate this inert gas for use in studies of the deposition of ZnS and fluorescein. Xenon-133 is a moderately short-lived radioisotope (5.3 day half-life) that decays with a weak beta emission (0.35 MeV).

The technique used to collect the xenon samples involved trapping the gas on charcoal filters. Air was drawn through the membrane filters used to collect the ZnS and fluorescein samples. It was then dried, carbon dioxide was removed, and the remaining gases were cooled by passing

through glass bead traps containing a dry ice/acetone mixture. Finally, the gases were passed through a charcoal trap about 0.50 m in length. The charcoal traps were maintained at -80°C while in the field and being returned to the laboratory, where they were stored at -195°C .

The samples were prepared for assay by desorption of the gases off the charcoal, and purification and dissolution of the xenon-133 into a liquid scintillator for liquid scintillation counting. This process took several hours and involved slowly warming the samples from -195°C to 175°C . The samples were assayed by counting for one hour, waiting about 5 days, then counting again for one hour.

Ludwick (1965) describes the sample collection, preparation and assay procedure in detail.

Compared with the other tracer technique in use at Hanford in 1965, the collection and analysis of xenon-133 data was extremely time consuming and costly. It also involved significantly more elaborate field equipment. As a result, the number of samples collected during each experiment was limited. It appears from the records available that fewer than 20 xenon samples were collected in each of the tests. There are not enough xenon samples to estimate diffusion coefficients, but the normalized xenon time-integrated concentrations can be compared with the time-integrated concentrations of ZnS and fluorescein collected at the same locations.

DESCRIPTION OF THE DATA

The experiments that produced the data presented in this data volume were conducted on 128 days during the eight and one-half year period from January 1960 through June 1967. The data were collected in nine experimental series. Of these series, four are primary series, i.e., the 30 Series, the U Series, the '63 Series and the '64 Series. These series contribute data for 117 experiments. The remaining five series are secondary and contribute data for 17 experiments. ZnS was released in all of the experiments, and most (115) of the experiments were limited to the release of a single tracer. Fluorescein data have been included for 17 of the experiments, and xenon data for four.

Tracer sampling equipment was activated before the tracer release began and continued in operation for a period deemed long enough for the bulk of the tracer to pass. The delay in shutting off the samplers was generally 2-1/2 times as long as necessary for the uninhibited transport to the sampler, assuming the 15 m wind speed.

The cataloging of the diffusion and meteorological data in this volume is chronological within each experimental series. The data from the primary series are presented first, in the order in which they were begun, then data from the secondary series are presented. Again, the sequence of presentation of the series is the order in which they were begun. Table 3 lists the experiments in the order in which the data are presented. It lists the meteorological conditions during release, the tracer release points, the type of tracers, the release elevations, and the extent of the sampling. The meteorological conditions for each experiment are characterized by the wind speed at 2 m and a bulk Richardson number for the layer between 2 and 30 m. The bulk Richardson number is defined as:

$$Ri_b = \frac{g}{T_2} \frac{(T_{30} - T_2) \Delta Z}{U_{15}^2}$$

where g is the gravitational acceleration, T_2 and T_{30} are the potential temperatures at 2 and 30 m, respectively, U_{15} is the wind speed at 15 m and ΔZ is the layer thickness (28 m). Data from the 122 m tower in Appendix C were used for determination of the bulk Richardson number.

Although the ideal diffusion experiment would entail a point source release into an undisturbed atmosphere, such releases are impossible. All of the elevated releases were, undoubtedly, affected to some degree by the 122 m tower from which the releases took place. This tower is a rather sturdy structure triangular in cross section and about 3.6 m on a side. An idea of the appearance of the tower can be gained from Figure 3.

Near ground-level releases from the U-source were subjected to the worst wake situation. First, the tracer dispensing equipment (to be seen in Figure 5) was mounted on a small trailer; second, the wake of the tower a few meters away added to the turbulence, and third, a small building stood near the base of the tower.

THE APPENDIX A DIFFUSION DATA

Appendix A gives the individual field diffusion measurements. These data form the bulk of the data volume. The experiments are presented in the order given in Table 3. For multiple tracer experiments the ZnS data are presented first. They are followed by fluorescein data. The data for the xenon samples is presented following the data for the ZnS and fluorescein samples. General comments pertinent to each experiment precede the listing of the data for the experiment. The date and time of release, tracer release elevation and wind speed at the release height are included in the heading for the data from each arc or tower.

The first column in the body of the Appendix A tables gives the azimuth with respect to the source, and the distance from the source is given in the last column.

The second column in the Appendix A tables lists exposures (time-integrated concentrations). For towers, a column specifying sampling height precedes the exposure column. The exposure data for particulate tracers results from division of the mass of tracer on the filter by the flow rate through the filter. In the exposure column, the magnitudes of the individual numbers are directly related to the mass of the tracer collected on the filters, and are therefore related to the confidence that can be placed in the samples.

The exposure column has been left in digital format, as opposed to the scientific notation used in the following two columns, to give an analog appearance to the concentration distributions across an arc or up a tower. In most cases the shape of the distribution is relatively obvious with a glance at the column.

In the column headed E/G, exposures have been normalized by dividing by the total mass emitted (or curies released in the case of xenon).

EU/Q is the exposure normalized to both unit emission and unit wind speed. The mean wind speed (U) used in this normalization is the speed listed in the heading immediately preceding the data for the arc or tower. It is the mean wind speed at the release height during the period of release. In cases where there were multiple tracer releases but the release periods differed, the wind speed used is the average for the longer release period.

TABLE 3. General Grid, Source, Release and Meteorological Information

Test	Grid Source	Wind Speed 1.5m (2.0m)* (m/s)	Stability R_{10}	Release Height (m)	Type of Tracer	Duration of Release (min)	Sampling Distance from Source, m Nearest Farthest	Total Towers Active
FT-30	S	2.5*	-.063	2	FP	20	200 3200	20
FT-31	S	3.4*	-.044	2	FP	30	200 3200	20
FT-40	S	2.5	-.040	2	FP	60	200 3200	20
FT-41	S	6.7*	-.005	2	FP	30	200 3200	20
FT-42	S	3.2	.100	2	FP	60	200 3200	20
FT-43	S	2.3*	.069	2	FP	30	200 3200	20
FT-44	S	2.1*	.076	2	FP	60	200 3200	20
FT-45	S	6.3*	-.024	2	FP	29	200 3200	20
FT-46	S	1.6*	.178	2	FP	51	200 3200	None
FT-47	S	3.6	-.043	2	FP	39	200 3200	20
FT-48	S	2.9*	-.068	2	FP	30	200 3200	20
FT-49	S	5.1*	-.048	2	FP	30	200 3200	20
FT-50	S	4.1*	.015	2	FP	30	200 3200	20
FT-51	S	4.8*	-.045	2	FP	30	200 3200	20
FT-52	S	3.8*	-.015	2	FP	30	200 3200	20
FT-53	S	3.2*	-.013	2	FP	21	200 12800	20
FT-54	S	1.9*	.153	2	FP	30	200 3200	20
FT-55	S	2.5*	.050	2	FP	30	200 3200	20
FT-56	S	0.8*	.186	2	FP	30	200 3200	20
FT-57	S	2.6*	.052	2	FP	30	200 3200	20
FT-58	S	1.0*	.683	2	FP	15	200 3200	20
FT-59	S	2.8*	-.051	2	FP	30	200 3200	20
FT-60	S	3.0*	-.021	2	FP	21	200 3200	20
FT-61	S	4.2*	-.025	2	FP	31	200 3200	20
FT-62	S	0.7	.406	2	FP	30	200 3200	20
FT-63	S	1.3*	.247	2	FP	196	200 12800	10
FT-64	S	3.1*	.235	2	FP	35	200 3200	10
FT-65	S	4.9*	.010	2	FP	15	200 12800	10
FT-66	S	3.3*	.029	2	FP	60	200 12800	10
FT-67	S	1.7*	.147	2	FP	45	200 3200	10
FT-68	S	3.8*	.021	2	FP	45	200 3200	10
FT-69	S	4.5*	.013	2	FP	60	200 12800	10
FT-70	S	2.9*	.019	2	FP	135	200 12800	10
FT-71	S	1.9*	.022	2	FP	51	200 3200	10
U-2	U	5.1	-.006	56	FP	30	100 1600	None
U-5	U	4.6	-.018	56	FP	60	100 1600	None
U-6	U	6.8	-.013	56	FP	60	100 1600	None
U-7	U	6.5*	-.027	56	FP	60	100 1600	None
U-8	U	7.5*	-.003	56	FP	35	100 1600	None
U-9	U	5.0*	-.015	56	FP	60	100 1600	None
U-10	U	2.7*	-.112	56	FP	25	100 1600	None
U-11	U	1.8*	-.153	56	FP	60	100 1600	None
U-12	U	2.0*	-.119	56	FP	60	100 1600	None
U-13	U	7.2*	-.010	56	FP	60	100 1600	None
U-14	U	4.2*	-.012	56	FP	60	100 1600	None
U-15	U	5.5*	-.004	56	FP	60	100 1600	None
U-16	U	4.7*	-.002	56	FP	60	100 1600	None
U-17	U	5.6*	-.011	56	FP	17	100 1600	None
U-18	U	5.6*	-.011	56	FP	60	100 1600	None
U-19	U	3.1*	-.071	56	FP	60	100 3200	None
U-20	U	7.0*	-.306	56	FP	50	100 1600	None
U-21	U	5.2*	-.015	56	FP	60	100 1600	None
U-22	U	3.5*	-.071	56	FP	57	100 1600	None
U-23	U	3.1*	-.041	56	FP	46	100 1600	None
U-24	U	5.4*	-.052	56	FP	60	100 1600	None
U-25	U	1.9*	-.078	56	FP	24	100 1600	None
U-26	U	3.5*	-.083	56	FP	60	100 1600	None
U-27	U	2.2*	-.192	56	FP	60	100 1600	None
U-28	U	5.5*	-.025	56	FP	60	100 1600	None
U-29	U	1.7*	-.177	56	FP	60	100 1600	None
U-30	U	6.0*	-.310	56	FP	60	100 3200	None
U-31	U	3.9*	.010	56	FP	38	100 1600	None
U-32	U	4.5*	.002	56	FP	60	100 1600	None
U-33	U	6.0*	-.030	56	FP	58	100 1600	None

TABLE 3. (Cont'd)

Test	Grid Source	Wind Speed 1.5m (2.0m)* (m/s)	Stability R_1 R_b	Release Height (m)	Type of Tracer	Duration of Release (min)	Sampling Distance from Source, m Nearest Farthest	Total Towers Active
U-34	U	5.0*	-.041	56	FP	31	100 3200	None
U-35	U	6.6*	-.044	56	FP	26	100 1600	None
U-36	U	2.9	-.162	26	FP	25	100 1600	None
U-37	U	2.7	-.043	111	FP	61	300 3200	None
U-38	U	3.4	-.076	26	FP	17.5	100 1600	None
U-39	U	6.6	-.019	56	FP	52	100 1600	None
U-40	U	5.9	-.011	56	FP	49	100 3200	None
U-41	U	6.2*	-.027	26	FP	38	100 1600	None
U-42	U	5.1	-.014	56	FP	55	400 3200	None
U-43	U	2.8	.046	26	FP	40	100 1600	None
U-44	U	1.9	-.187	26	FP	30	100 1600	None
U-45	U	6.0	-.001	1.5	FP	30	200 1600	None
U-46	U	6.0	-.015	26	FL	30	200 1600	None
U-47	U	4.6*	-.015	1.5	FL	30	200 1600	None
U-48	U	1.5*	.102	26	FP	30	100 1600	None
U-49	U	1.0	-.090	1.5	FL	30	100 1600	None
U-50	U	5.7	-.009	26	FP	30	100 1600	None
U-51	U	4.8*	-.030	1.5	FL	30	100 1600	None
U-52	U	6.8*	-.024	26	FP	30	100 1600	None
U-53	U	8.9	.000	1.5	FL	47	100 1600	None
U-54	U	3.3*	.037	26	FP	45	100 1600	None
U-55	U	3.0	-.079	1.5	FL	59	100 1600	None
FT-1-63	S	0.6*	.439	7	FP	45	200 3200	20
FT-3-63	S	0.4*	.14.8	7	FP	30	200 3200	20
FT-4-63	S	3.4*	.039	7	FP	30	200 3200	20
FT-5-63	S	2.7*	.081	7	FP	30	200 3200	20
FT-6-63	S	1.3*	.112	7	FP	23	200 3200	20
FT-7-63	S	2.7*	.025	7	FP	43	200 3200	20
FT-8-63	S	1.2*	.040	7	FP	40	200 3200	20
FT-9-63	S	2.2*	.077	7	FP	60	200 3200	20
FT-10-63	S	1.7*	.153	7	FP	39	200 3200	20
FT-11-63	S	1.6*	.149	7	FP	41	200 3200	20
FT-12-63	S	1.1*	.265	7	FP	30	200 3200	20
FT-13-63	S	0.5*	.597	7	FP	26	200 3200	20
FT-14-63	S	2.0*	.056	7	FP	43	200 3200	20
FT-15-63	S	0.8*	.236	7	FP	37	200 3200	20
FT-16-63	S	0.4*	.777	7	FP	42	200 3200	20
FT-17-63	S	0.8*	.283	7	FP	30	200 3200	20
FT-18-63	S	3.3*	-.066	7	FP	79	200 3200	20
S-64-1	S	1.3*	.066	56	FP	38	200 12800	20
S-64-2	S	1.3*	.182	56	FP	26	200 12800	20
S-64-4	S	1.0*	.250	56	FP	26	200 12800	20
S-64-5	S	1.9*	.170	56	FP	32	1600 12800	10
S-64-6	S	1.0*	.170	56	FP	20	1600 12800	10
S-64-7	S	2.0*	.070	56	FP	30	200 3200	20
S-64-8	S	0.8*	.146	56	FP	50	1600 12800	10
S-64-9	S	1.4*	.241	56	FP	60	1600 12800	10
S-64-10	S	2.4	.079	56	FP	60	1600 12800	10
S-64-11	S	1.2	.518	56	FP	21	1600 12800	10
S-64-12	S	1.5*	.232	56	FP	57	1600 12800	10
S-64-13	S	1.1*	.348	111	FP	72	1600 12800	10
S-64-14	S	2.2*	.053	111	FP	40	1600 12800	None
S-64-15	S	1.2	.902	111	FP	46	1600 12800	10

TABLE 3. (Cont'd)

Test	Grid Source	Wind Speed 1.5m (2.0m)* (m/s)	Stability Ri_b	Release Height (m)	Type of Tracer	Duration of Release (min)	Sampling Distance from Source, m		Total Towers Active
							Nearest	Farthest	
Z-1	S	2.5*	.052	26	FP	39	200	3200	20
MT-2	S	3.8*	.016	1.5	FP,FL	13	200	3200	20
MT-3	S	1.1*	.222	1.5	FP,FL	21	200	3200	20
MT-4	S	2.2*	.039	1.5	FP,FL	28	200	3200	20
X-2	S	1.2*	.187	7	FP	28	800	3200	15
X-4	S	2.1*	.106	7	FP	26	200	3200	20
Xe-1	S	1.5	.534	1.5	FP,Xe	30	200	3200	20
Xe-2	S	5.3	.021	1.5	FP,Xe	30	200	3200	None
Xe-3	S	1.7	.096	1.5	FP,FL,Xe	4	200	1600	15
Xe-4	S	2.2	.096	1.5	FP,FL,Xe	7.5	200	1600	15
Xe-5	S	3.2	.073	1.5	FP,FL,Xe	6	200	1600	15
A-2	S	5.6*	.010	1.5	FP	61	200	3200	5
A-5	S	2.7	.029	1.5	FP	60	800	3200	5
A-6	S	1.4	.096	1.5	FP	60	800	3200	5
A-7	S	2.6	.026	1.5	FP	55	800	3200	5
A-8	S	1.9	.133	1.5	FP	65	800	3200	5
A-9	S	1.2	.445	1.5	FP	54	800	3200	5

FP = Tracer Fluorescent Pigment 2210

FL = Fluorescein

Xe = Xenon

In many cases, a one-character symbol precedes the azimuth column in Appendix A. These symbols indicate that something less than ideal was associated with the sample. A detailed explanation of the alphabetical symbols is given at the beginning of the appendix. The numerical symbols used in Appendix A were mentioned earlier; they are associated with dust loadings on the filters. Values of 5 or more indicate that the apparent ZnS mass may be less than the true mass because of dust on the filter. Ratings of less than 5 can be ignored.

Since each 1.5 m sample was used in the computation of crosswind integrated concentrations and the statistics presented in Appendix B, it was deemed wiser to substitute a reasonable estimate for an obviously erroneous sample than to have an erroneous number go into the computations. These estimates are frequently merely interpolations or extrapolations of data collected on the same arc. At times it was necessary to plot the distributions of the tracer and interpolate concentrations between arcs.

In some instances, the amount or quality of data on an arc is so low that no estimations were attempted. Also, since no vertical moments or vertical crosswind sums were computed, the incentive to supply estimates for poor tower samples was not as great as it was for poor 1.5 m samples. Thus, the poorer tower measurements are frequently reported directly with an accompanying remark symbol other than "E" for "estimate".

Following Nickola (1977), data for measurements at background levels have been omitted. Also omitted are data for measurements where there was a total failure of a sampler.

APPENDIX B DIFFUSION SUMMARIES

Appendix B summarizes the ground-level data for each of the releases. The summary for each release starts by repeating the specific experiment remarks given in Appendix A. The heading then identifies the specific tracer and gives pertinent release information.

The first column of the tabular data indicates the distance from the source. The next four columns give statistics relating to the crosswind distribution. The first of these columns gives the location of the mean of the crosswind distribution. The standard deviation (σ_y) and the coefficients of skewness and kurtosis for the distribution follow. The next three columns give the azimuth and the magnitude of the three largest exposures measured on each arc. Three values are given to reduce the chance of considering a "sport" (erroneous measurement) as representative of the plume centerline. The last two columns give crosswind integrated exposure values.

The symbol "?" following the tabulated data indicates that there is some uncertainty in the data. The uncertainty may involve estimates in sample values given in Appendix A, or there may be some question about the performance of the laboratory assay equipment. The symbol is intended to alert a user to the fact that something not completely routine went into the generation of the associated number. The remarks preceding the table or the appropriate data field in Appendix A should indicate the reason for the symbol. Where estimates of missing data were on the tails of a distribution, or where a broad distribution reduced the consequences of a single estimate near the center of a distribution, a "?" may not have been appended in the Appendix B tables. The decisions to append the symbol or not are subjective. Therefore, a second review of the data would be unlikely to result in precisely the same tagging.

Appending of the symbol "X" to Appendix B data symbolizes a much more serious difficulty with the data. The data are either incomplete or invalid. For instance, the computations of mean, standard deviation, skewness, kurtosis and crosswind integrated exposure from a badly truncated distribution lack significance. An "X" is then appended. However, if the truncated distribution is such that there is little doubt that the plume centerline was observed, no "X" is appended in the maximum exposure columns.

THE APPENDIX C METEOROLOGICAL DATA

Vertical profiles of temperature, wind speed and wind direction were measured on a 122 m tower at the U-source. In addition, wind speed and direction were measured on a 25 m tower -- also generally near the tracer release point.

Temperature measurements on the 122 m tower were made by Foxboro thermohms. The aspirated thermohms were exposed at elevations of 0.9, 15.2, 30.5, 45.7, 61.0, 76.2, 91.4, and 122 m (3, 50, 100, 150, 200, 250, 300 and 400 ft). Recording was a series of points on a strip chart. About 3-1/2 minutes were required to cycle through all temperature sensors.

Wind speed and direction on the 122 m tower were measured by seven Aerovane anemometers mounted at elevations of 2.1, 15.2, 30.5, 45.7, 61.0, 91.4 and 122 m (7, 50, 100, 150, 200, 300 and 400 ft). The starting speed for Aerovane propellers is approximately 1 m/sec. The Aerovane is a rather large streamlined vane/anemometer assembly about 80 cm in length. The assembly has a distance constant of about 4.5 m for speed and about 10 m for direction.

Wind direction transducers employed on the 25 m tower were Beckman and Whitley Model M1565 vanes. These vanes respond to winds of less than 0.4 m/sec and have a distance constant of about 1.5 m. The output signals from these lightweight vanes were smoothed by a filter having

a 5-sec time constant. The filter output was sampled for 60 msec once each 5 sec, digitized and recorded. The digitized data were used for computing mean directions and standard deviations of direction.

The Beckman and Whitley cups and vanes were mounted at elevations of 0.76, 1.5, 3.0, 6.1, 12.2 and 24.4 m (2.5, 5, 10, 20, 40 and 80 ft) during most of the field experiments. Thus, the spacing between wind sensors on the shorter tower was closer than was the spacing between Aerovanes on the 122 m tower. Wind speeds indicated by the Beckman and Whitley cups frequently averaged slightly higher than those computed from the Aerovanes, although the shapes of the profiles in the area of common measurements were in excellent agreement.

Two sets of wind direction and wind direction standard deviation (σ_θ) data were developed. One set is based on the Aerovane measurements, and the other is based on the Beckman and Whitley vane measurements. With a few exceptions for light wind cases, these data show that agreement between the Aerovane and Beckman and Whitley data is reasonably good. The agreement in mean direction profiles is rather expected. However, in view of the difference in physical characteristics of the large Aerovane and the relatively lightweight Beckman and Whitley vane, and the difference in the method of digitizing direction, the agreement in σ_θ profiles is more surprising.

The data presented in Appendix C are based on measurements made during the period of tracer release. When two or more tracers were released during the same experiment and the periods of release were not the same, the meteorological data apply to the longer tracer release period.

REFERENCES

- Barad, M. L. and J. J. Fuquay (Eds.). 1962a. The Green Glow Diffusion Program. Geophysical Research Papers No. 73, Vol. I, AFCRL-62-251 (I), Air Force Cambridge Research Laboratories, Bedford, Massachusetts.
- Barad, M. L. and J. J. Fuquay (Eds.). 1962b. The Green Glow Diffusion Program. Geophysical Research Papers No. 73, Vol. II, AFCRL-62-251 (II), Air Force Cambridge Research Laboratories, Bedford, Massachusetts.
- Eggleton, A. E. J. and N. Thompson. 1961. "Loss of Fluorescent Particles in Atmospheric Diffusion Experiments by Comparison with Radio-xenon Tracer." Nature 192:935-936.
- Fuquay, J. J., C. L. Simpson and W. T. Hinds. 1964. "Prediction of Environmental Exposures from Sources Near the Ground Based on Hanford Experimental Data." J. Appl. Meteorol. 3(6):761-770.
- Hinds, W. T. 1967. On the Variance of Concentration in Plumes and Wakes. BNWL-SA-1435, Pacific Northwest Laboratory, Richland, Washington.
- Hinds, W. T. 1969. "Peak-to-Mean Concentration Ratios from Ground-Level Sources in Building Wakes." Atmospheric Environ. 3:145-156.
- Leighton, P. A. 1955. The Stanford Fluorescent-Particle Tracer Techniques. (Defense Documentation Center, AD 91-94), Dept. of Chemistry, Stanford University, Palo Alto, California.
- Ludwick, J. D. 1961. Dual Atmospheric Tracer Techniques for Diffusion Studies Using Phosphorescence - Fluorescence Analysis. HW-7D892, Hanford Atomic Products Operation, General Electric Co., Richland, Washington.
- Ludwick, J. D. and R. W. Perkins. 1961. "Liquid Scintillation Techniques Applied to Counting Phosphorescence Emission." Anal. Chem. 33(9):1230-1235.
- Ludwick, J. D. and P. W. Nickola. 1963. "A Fluorescein Analysis Technique for Use in Atmospheric Diffusion Studies." in Hanford Radiological Sciences Research and Development Report for 1962, HW-77609, Hanford Atomic Products Operation, General Electric Co., Richland, Washington.
- Ludwick, J. D. 1965. "Investigation of Inert Atmospheric Tracers; Xe¹³³." in Hanford Radiological Sciences Research and Development Annual Report for 1964, BNWL-36, Pacific Northwest Laboratory, Richland, Washington.

Nickola, P. W. and M. T. Scoggins. 1964. "Atmospheric Tracer Technology." in Hanford Radiological Sciences Research and Development Annual Report for 1963, HW-81746L 1.43 - 1.51, Hanford Atomic Products Operation, General Electric Co., Richland, Washington.

Nickola, P. W. 1965. Field Testing of a Fluorescein - Zinc Sulfide Dual Atmospheric Tracer Techniques. BNWL-103, Battelle, Pacific Northwest Laboratories, Richland, Washington.

Nickola, P. W., J. V. Ramsdell, Jr. and J. D. Ludwick. 1970. Detailed Time-Histories of Concentrations Resulting from Puff and Short-Period Releases of an Inert Radioactive Gas: A Volume of Atmospheric Diffusion Data. BNWL-1272, Battelle, Pacific Northwest Laboratories, Richland, Washington.

Nickola, P. W. 1977. The Hanford 67-Series: A Volume of Atmospheric Field Diffusion Measurements. PNL-2433, Pacific Northwest Laboratory, Richland, Washington.

Rankin, M. O. 1958. A Zinc Sulfide Particle Detector. HW-55917, Hanford Laboratories, General Electric Co., Richland, Washington.

Robinson, E., J. A. Macleod and C. E. Lapple. 1959. "A Meteorological Tracer Technique Using Uranine Dye." J. Meteorol. 16:63-67.

Sehmel, G. A. 1966. Subisokinetic Sampling of Particles in an Air Stream. BNWL-217, Battelle, Pacific Northwest Laboratories, Richland, Washington.

APPENDIX A

DIFFUSION DATA

MEANING OF REMARK SYMBOLS THAT PRECEDE
AZIMUTH COLUMN IN APPENDIX A TABLES

<u>Symbol</u>	<u>Significance</u>
E	ESTIMATED values.
H	DOA (dead on arrival), HOT. At time of filter pickup, vacuum supply to filter was found to have failed due to dead engine. Engine hot, however, indicating vacuum missing only a short time and hence likely a valid sample.
W	DOA, WARM. Same as H, except engine only warm to touch. Possibly valid sample, but more doubt than with H.
C	DOA, COLD. Same as H, except engine cold to touch, and no fuel in tank. Sampling occurred as long as fuel lasted, but ended considerably before filter pickup.
P	DOA, cold, PARTIAL tank of gasoline. Same as C except sampling was likely of shorter duration since engine failed before burning all the fuel.
X	DOE, cold, full tank. Engine failed shortly after starting. Sample is essentially due to impaction on filter rather than to flow through filter.
Q	DOA, other. Engine DOA, but no other field note given.
I	IMPACTION sample. Engine for vacuum supply was never started. Sample is due to impaction on filter rather than flow through filter.
L	Filter LOST or, in the case of krypton, Geiger-Muller tube not operating.
M	Filter was MISSING from holder assembly. The supporting crepe paper roll was often assayed in the case of the ZnS tracer, but it is a much less efficient sampler than the membrane filter.
D	Filter assembly DROPPED. Effect unknown.
S	Filter SLIGHTLY cracked. Effect likely minimal.
T	Filter TORN badly. Effect likely significant.
F	Apparent FINGERPRINT on filter. Time of placement and effect, if any, unknown.
R	For Rankin counting of ZnS, a RECOUNT of a filter with an unexpected mass assessment, but with essentially unchanged mass indicated on the repeat assessment.

<u>Symbol</u>	<u>Significance</u>
G	GEIGER-MULLER tube noisy or questionable
V	Low VOLTAGE on Geiger-Muller tube. Likely low exposures indicated.
B	Tracer likely extends BEYOND this last active sampler. (The symbol was not always appended to top vertical samplers even though tracer obviously extended higher.)
N	Samplers operated, but NO tracer observed on the arc (tower). Possibly no tracer passed samplers or possibly concentration below detection limit.

Symbol	Significance
Z	Any other field or assessment remark. (A check of field notes or laboratory assay notes would be needed to elaborate on each Z remark).
1 } 2 } 3 } 4 }	Visible dust on filter, but of minimal concern.*
5 6 7 8 9 0 ↓	Increasing significance of visible dust on filters.*

*The numerical remark symbols are qualitative ranking of visible dust on field filters. Larger numbers indicate darker filters -- except "0" indicates the most severe loading. ZnS assay is degraded most severely by dust, although a nomenclature of less than 5 can be considered of minimal importance.

30-SERIES EXPERIMENT: 30 (FT-30)
 THIS EXPERIMENT IS THE FIRST EXPERIMENT OF THE 30-SERIES.
 GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS

TEST FT30 FEBRUARY 18, 1960 0927 TO 0947 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 200M ARC SAMPLER AT 1.5M W= 2.5 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	EU/D 1/SEC ²	DISTANCE METERS
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78.0	27	3.717E-08	9.243E-08	200
80.0	45	6.201E-08	1.573E-07	200
82.0	77	1.058E-07	2.645E-07	200
84.0	162	2.230E-07	5.576E-07	200
86.0	118	1.630E-07	4.075E-07	200
88.0	83	1.104E-07	2.859E-07	200
90.0	27	3.145E-08	7.863E-08	200
92.0	18	2.573E-08	6.434E-08	200
116.0	482	6.634E-07	1.658E-06	200
118.0	2323	3.220E-06	8.049E-06	200
120.0	10353	1.422E-05	3.556E-05	200
122.0	17077	2.344E-05	5.865E-05	200
124.0	38707	5.317E-05	1.329E-04	200
126.0	46121	6.315E-05	1.584E-04	200
128.0	46929	6.444E-05	1.612E-04	200
130.0	55745	7.657E-05	1.914E-04	200
132.0	84329	1.158E-04	2.896E-04	200
134.0	112941	1.551E-04	3.878E-04	200
136.0	117889	1.519E-04	4.008E-04	200
138.0	98019	1.359E-04	3.397E-04	200
140.0	120310	1.708E-04	4.269E-04	200
142.0	145056	1.903E-04	4.881E-04	200
144.0	24013	1.319E-04	3.297E-04	200
146.0	68867	9.060E-05	2.365E-04	200
148.0	43715	4.005E-05	1.501E-04	200
150.0	21261	2.921E-05	7.301E-05	200
152.0	9073	1.206E-05	3.116E-05	200
154.0	8615	1.211E-05	3.022E-05	200
156.0	4325	5.742E-06	1.485E-05	200
158.0	2246	3.005E-06	7.713E-06	200

CROSSWIND INTEGRATED 1.111E-07 2.778E-02
 SEC/SEC² 1/M

TOWER DATA FOLLOWING...

TEST FT30 FEBRUARY 18, 1960 0927 TO 0947 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 200M ARC W= 2.5 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	EU/D 1/SEC ²	DISTANCE METERS
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8	98.0	2.7	70	9.727E-08	2.432E-07	200
	98.0	4.1	25	3.566E-08	8.916E-08	200
T	98.0	5.4	21	2.918E-08	7.295E-08	200
S	98.0	9.4	21	2.918E-08	7.295E-08	200
T	98.0	27.0	20	2.846E-08	7.114E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	EU/D 1/SEC ²	DISTANCE METERS
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	106.0	2.7	49	6.809E-08	1.702E-07	200
	106.0	4.1	23	3.242E-08	8.106E-08	200
S	106.0	6.8	30	4.215E-08	1.054E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	EU/D 1/SEC ²	DISTANCE METERS
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	114.0	0.7	19	2.647E-08	6.619E-08	200
	114.0	1.4	16	2.270E-08	5.678E-08	200
	114.0	2.7	127	1.751E-07	4.377E-07	200
S	114.0	4.1	45	4.800E-08	1.702E-07	200
S	114.0	5.4	41	6.160E-08	1.540E-07	200
S	114.0	6.8	25	3.566E-08	8.916E-08	200
T	114.0	8.1	66	7.078E-08	2.270E-07	200
	114.0	9.4	43	5.836E-08	1.459E-07	200
S	114.0	10.8	25	3.566E-08	8.916E-08	200
S	114.0	13.5	28	5.891E-08	9.727E-08	200
S	114.0	16.2	22	1.135E-07	2.837E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CM-SEC/CM,M X10E+6	F/D SEC/CM,M	FU/D 1/SG,M	DISTANCE METERS
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122.0	0.7	24872	3.417E-05	8.501E-05	200
122.0	1.4	15523	2.132E-05	5.331E-05	200
122.0	2.7	19312	2.653E-05	6.632E-05	200
S 122.0	4.1	12379	1.701E-05	4.251E-05	200
S 122.0	5.4	7468	1.026E-05	2.565E-05	200
S 122.0	6.8	15505	2.141E-05	5.352E-05	200
S 122.0	8.1	11617	1.595E-05	3.988E-05	200
S 122.0	9.4	14648	2.012E-05	5.030E-05	200
S 122.0	10.8	2789	3.832E-06	9.581E-06	200
T 122.0	13.5	11731	1.570E-05	3.926E-05	200
T 122.0	16.2	3658	5.025E-06	1.256E-05	200
S 122.0	18.9	10819	1.486E-05	3.716E-05	200
T 122.0	21.6	7227	9.928E-06	2.482E-05	200
122.0	24.3	3855	5.296E-06	1.324E-05	200
S 122.0	27.0	4067	5.587E-06	1.397E-05	200

TEST #130 FEBRUARY 19, 1960 0927 TO 0947 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM APC SAMPLER HT 1.5M U= 2.5 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CM,M X10E+6	F/D SEC/CM,M	FU/D 1/SG,M	DISTANCE METERS
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122.0	24	3.319E-06	8.298E-06	800
124.0	20	2.766E-06	6.915E-06	800
T 126.0	64	8.853E-06	2.213E-07	800
128.0	255	3.513E-07	8.782E-07	800
130.0	1405	1.031E-06	4.826E-06	800
132.0	2009	3.997E-06	9.992E-06	800
134.0	1602	4.170E-06	1.045E-05	800
136.0	3362	4.610E-06	1.155E-05	800
138.0	4097	5.504E-06	1.376E-05	800
140.0	3582	4.921E-06	1.230E-05	800
142.0	4752	6.528E-06	1.632E-05	800
144.0	6179	8.489E-06	2.122E-05	800
146.0	2478	3.405E-06	8.512E-06	800
148.0	1806	2.481E-06	6.203E-06	800
150.0	779	1.070E-06	2.676E-06	800
152.0	225	3.088E-07	7.745E-07	800
154.0	40	5.532E-08	1.383E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CM-SEC/CM,M X10E+6	F/D SEC/CM,M	FU/D 1/SG,M	DISTANCE METERS
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130.0	0.7	77705	1.067E-04	2.668E-04	200
130.0	1.4	57875	7.950E-05	1.987E-04	200
130.0	2.7	53001	7.280E-05	1.820E-04	200
130.0	4.1	71473	9.818E-05	2.450E-04	200
S 130.0	5.4	56272	7.730E-05	1.932E-04	200
S 130.0	6.8	51736	7.107E-05	1.777E-04	200
S 130.0	8.1	5040	4.176E-06	1.044E-05	200
130.0	9.4	43168	5.930E-05	1.482E-04	200
S 130.0	10.8	41884	5.753E-05	1.438E-04	200
130.0	13.5	33377	4.585E-05	1.146E-04	200
130.0	16.2	29054	4.046E-05	1.011E-04	200
130.0	18.9	21771	2.991E-05	7.477E-05	200
T 130.0	21.6	21634	2.972E-05	7.430E-05	200
130.0	24.3	17424	2.393E-05	5.984E-05	200
T 130.0	27.0	1675	2.302E-06	5.754E-06	200

CROSS-SECTION INTEGRATED= 1.340E-03 SEC/SG,M 3.350E-03 1/M

TOWER DATA FOLLOW....

TEST FY30 FEBRUARY 18, 1960 0927 TO 0947 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
98.0	4.2	52	7.213E-08	1.803E-07	800
S 98.0	21.0	22	3.136E-08	7.841E-08	800
T 98.0	25.2	4	6.117E-09	1.529E-08	800
98.0	29.4	35	4.893E-08	1.223E-07	800
98.0	33.6	11	1.529E-08	3.823E-08	800
98.0	37.8	37	5.199E-08	1.300E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
106.0	10.5	34	4.704E-08	1.176E-07	800
106.0	12.6	43	5.959E-08	1.490E-07	800
106.0	14.7	18	2.509E-08	6.273E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
1.4.0	2.1	20	2.823E-08	7.057E-08	800
T 1.4.0	4.2	13	1.882E-08	4.704E-08	800
1.4.0	6.3	38	5.332E-08	1.333E-07	800
1.4.0	8.4	20	2.823E-08	7.057E-08	800
S 1.4.0	10.5	25	3.450E-08	8.625E-08	800
1.4.0	14.7	31	4.391E-08	1.098E-07	800
T 1.4.0	16.8	63	8.782E-08	2.195E-07	800
1.4.0	21.0	20	2.823E-08	7.057E-08	800
1.4.0	25.2	44	6.117E-08	1.529E-07	800
1.4.0	29.4	2	3.058E-09	7.646E-09	800
S 1.4.0	33.6	20	2.753E-08	6.881E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
122.0	12.6	22	3.136E-08	7.841E-08	800
S 122.0	29.4	17	2.407E-08	6.117E-08	800
S 122.0	33.6	13	1.835E-08	4.588E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
Z 13.0	1.0	1548	2.126E-06	5.316E-06	800
Z 13.0	2.1	2118	2.910E-06	7.276E-06	800
Z 13.0	4.2	1653	2.271E-06	5.677E-06	800
Z 13.0	6.3	1484	2.039E-06	5.096E-06	800
Z 13.0	8.4	1714	2.355E-06	5.888E-06	800
Z 13.0	10.5	1299	1.785E-06	4.461E-06	800
Z 13.0	12.6	1995	2.701E-06	6.853E-06	800
Z 13.0	14.7	1863	2.559E-06	6.398E-06	800
Z 13.0	16.8	2075	2.851E-06	7.127E-06	800
Z 13.0	21.0	1739	2.390E-06	5.975E-06	800
13.0	25.2	2108	2.896E-06	7.281E-06	800
13.0	29.4	2063	2.835E-06	7.080E-06	800
13.0	33.6	1658	2.279E-06	5.696E-06	800
Z 13.0	37.8	1787	2.454E-06	6.140E-06	800
13.0	42.0	1545	2.123E-06	5.306E-06	800

TEST FY30 FEBRUARY 18, 1960 0927 TO 0947 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
131.0	173	2.382E-07	5.955E-07	1600
132.0	141	1.989E-07	4.873E-07	1600
133.0	303	4.721E-07	1.180E-06	1600
134.0	588	8.078E-07	2.019E-06	1600
135.0	337	4.638E-07	1.159E-06	1600
136.0	491	6.757E-07	1.689E-06	1600
137.0	619	8.511E-07	2.128E-06	1600
S 138.0	632	8.688E-07	2.171E-06	1600

CROSSWIND INTEGRATED= 1.277E-04 SEC/SEC
1/M

TOWER DATA FOLLOW....

TEST FY30 FEBRUARY 18, 1960 0927 TO 0947 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
Z 130.0	18.6	14	1.928E-08	4.820E-08	1600
Z 130.0	21.7	17	2.410E-08	6.025E-08	1600
S 130.0	24.8	18	2.595E-08	6.487E-08	1600
T 130.0	31.0	25	3.538E-08	8.846E-08	1600
T 130.0	37.2	22	3.067E-08	7.666E-08	1600
T 130.0	43.4	1	2.359E-09	5.897E-09	1600
T 130.0	49.6	1	2.166E-09	5.414E-09	1600
T 130.0	55.8	18	2.599E-08	6.497E-08	1600
130.0	62.0	36	4.981E-08	1.245E-07	1600

TEST FY30 FEBRUARY 18, 1960 0927 TO 0947 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
136.0	14	1.948E-08	4.871E-08	3200
137.0	54	7.428E-08	1.857E-07	3200
138.0	91	1.254E-07	3.135E-07	3200
139.0	124	1.705E-07	4.262E-07	3200
140.0	102	2.508E-07	6.271E-07	3200
141.0	105	2.679E-07	6.697E-07	3200
142.0	31	4.380E-08	1.096E-07	3200
143.0	135	1.863E-07	4.658E-07	3200
144.0	40	8.280E-08	2.070E-07	3200
145.0	33	9.627E-08	2.357E-07	3200
146.0	27	3.775E-08	9.437E-08	3200
147.0	27	3.776E-08	9.437E-08	3200
148.0	32	4.505E-08	1.126E-07	3200
149.0	82	1.132E-07	2.831E-07	3200
150.0	8	6.088E-09	1.522E-08	3200
151.0	23	3.288E-08	8.219E-08	3200
152.0	31	4.262E-08	1.065E-07	3200
153.0	32	4.505E-08	1.126E-07	3200
154.0	23	3.166E-08	7.915E-08	3200

CROSSWIND INTEGRATED= 9.269E-05 SEC/SEC
1/M

30-SERIES EXPERIMENT: 31 (FT-31)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS

TEST FT31 MARCH 11, 1960 0955 TO 1025 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	EU/D 1/SG,M	DISTANCE METERS
68.0	42	3.304E-08	1.123E-07	200
70.0	28	2.202E-08	7.488E-08	200
72.0	186	1.450E-07	4.930E-07	200
74.0	113	8.810E-08	2.995E-07	200
76.0	285	2.221E-07	7.551E-07	200
78.0	151	1.175E-07	3.994E-07	200
80.0	89	6.975E-08	2.371E-07	200
82.0	56	4.405E-08	1.498E-07	200
84.0	40	3.120E-08	1.061E-07	200
86.0	108	8.443E-08	2.871E-07	200
88.0	200	1.560E-07	5.304E-07	200
90.0	391	3.047E-07	1.036E-06	200
92.0	462	3.597E-07	1.223E-06	200
94.0	250	1.946E-07	6.615E-07	200
96.0	132	1.028E-07	3.495E-07	200
98.0	132	1.028E-07	3.495E-07	200
100.0	132	1.028E-07	3.495E-07	200
102.0	344	2.680E-07	9.111E-07	200
104.0	816	6.351E-07	2.159E-06	200
106.0	1824	1.419E-06	4.824E-06	200
108.0	4343	3.377E-06	1.148E-05	200
110.0	12922	1.005E-05	3.417E-05	200
112.0	35556	2.765E-05	9.401E-05	200
114.0	72703	5.653E-05	1.922E-04	200
116.0	141068	1.097E-04	3.730E-04	200
118.0	174247	1.355E-04	4.607E-04	200
120.0	218780	1.701E-04	5.784E-04	200
122.0	197737	1.538E-04	5.228E-04	200
124.0	206326	1.604E-04	5.455E-04	200
126.0	223642	1.739E-04	5.913E-04	200
128.0	152164	1.183E-04	4.023E-04	200
130.0	112165	8.722E-05	2.966E-04	200
132.0	91132	7.087E-05	2.409E-04	200
134.0	63032	4.901E-05	1.667E-04	200
136.0	1817	1.413E-06	4.805E-06	200
138.0	1527	1.188E-06	4.038E-06	200
140.0	1168	9.085E-07	3.089E-06	200
142.0	1057	8.223E-07	2.796E-06	200
144.0	1161	9.030E-07	3.070E-06	200
146.0	490	3.818E-07	1.298E-06	200
148.0	351	2.735E-07	9.298E-07	200
150.0	309	2.404E-07	8.175E-07	200
152.0	14	1.101E-08	3.744E-08	200

CROSSING INTEGRATED= 0.315E-03 3.174E-02
SEC/CM² 1/M

TOWER DATA FOLLOW....

TEST FT31 MARCH 11, 1960 0955 TO 1025 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 3.4 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	EU/D 1/SG,M	DISTANCE METERS
98.0	0.7	67	5.256E-08	1.767E-07	200
98.0	1.4	11	9.907E-09	3.062E-08	200
98.0	2.7	69	5.404E-08	1.837E-07	200
98.0	4.1	19	1.501E-08	5.104E-08	200
98.0	5.4	50	3.903E-08	1.327E-07	200
98.0	6.8	52	4.053E-08	1.378E-07	200
98.0	8.1	40	3.152E-08	1.072E-07	200
98.0	9.4	32	2.552E-08	8.676E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	EU/D 1/SG,M	DISTANCE METERS
Z 106.0	0.7	1723	1.340E-06	4.557E-06	200
Z 106.0	1.4	1250	9.727E-07	3.307E-06	200
Z 106.0	2.7	1287	1.901E-06	3.404E-06	200
Z 106.0	4.1	1328	1.033E-06	3.511E-06	200
Z 106.0	5.4	1034	8.044E-07	2.736E-06	200
Z 106.0	6.8	808	6.290E-07	2.138E-06	200
Z 106.0	8.1	801	6.230E-07	2.118E-06	200
Z 106.0	9.4	376	2.927E-07	9.952E-07	200
Z 106.0	10.7	411	3.197E-07	1.087E-06	200
Z 106.0	12.0	332	2.582E-07	8.778E-07	200
Z 106.0	13.3	167	1.306E-07	4.440E-07	200
Z 106.0	14.6	169	1.321E-07	4.491E-07	200
Z 106.0	15.9	208	1.621E-07	5.512E-07	200
Z 106.0	17.2	228	1.778E-07	6.046E-07	200
Z 106.0	18.5	267	2.077E-07	7.062E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	EU/D 1/SG,M	DISTANCE METERS
114.0	0.7	91438	7.110E-05	2.417E-04	200
114.0	1.4	57080	4.439E-05	1.509E-04	200
114.0	2.7	66263	5.153E-05	1.752E-04	200
114.0	4.1	70014	5.444E-05	1.851E-04	200
114.0	5.4	67633	5.259E-05	1.788E-04	200
Z 114.0	6.8	58968	4.585E-05	1.559E-04	200
E 114.0	8.1	63695	4.953E-05	1.684E-04	200
E 114.0	9.4	68823	5.352E-05	1.820E-04	200
E 114.0	10.7	76633	5.959E-05	2.026E-04	200
114.0	12.0	56777	4.415E-05	1.501E-04	200
114.0	13.3	52090	4.051E-05	1.377E-04	200
114.0	14.6	46063	3.582E-05	1.218E-04	200
Z 114.0	15.9	30328	2.358E-05	8.018E-05	200
Z 114.0	17.2	27436	2.133E-05	7.254E-05	200
Z 114.0	18.5	21197	1.648E-05	5.604E-05	200

AZIMUTH HEIGHT EXPOSURE E/Q EU/Q DISTANCE TOWER DATA FULLGM....
 DEGREES METERS GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS

	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
	122.0	0.7	280497	2.181E-04	7.416E-04	200
	122.0	1.4	172252	1.339E-04	4.554E-04	200
	122.0	2.7	166496	1.296E-04	4.407E-04	200
Z	122.0	4.1	173930	1.352E-04	4.598E-04	200
Z	122.0	5.4	171015	1.330E-04	4.521E-04	200
	122.0	6.8	165349	1.286E-04	4.372E-04	200
	122.0	8.1	153855	1.196E-04	4.068E-04	200
Z	122.0	9.4	115353	8.970E-05	3.050E-04	200
	122.0	10.8	145494	1.131E-04	3.847E-04	200
	122.0	13.5	116351	9.048E-05	3.076E-04	200
	122.0	16.2	100935	7.849E-05	2.669E-04	200
	122.0	18.9	103943	8.084E-05	2.749E-04	200
	122.0	21.6	81152	6.310E-05	2.146E-04	200
	122.0	24.3	41842	4.812E-05	1.636E-04	200
	122.0	27.0	69530	5.407E-05	1.838E-04	200

	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
	130.0	0.7	153615	1.195E-04	4.061E-04	200
	130.0	1.4	83025	6.456E-05	2.195E-04	200
	130.0	2.7	100186	7.791E-05	2.649E-04	200
	130.0	4.1	93576	7.277E-05	2.474E-04	200
	130.0	5.4	98157	7.633E-05	2.595E-04	200
	130.0	6.8	76260	5.930E-05	2.016E-04	200
	130.0	8.1	84528	6.573E-05	2.235E-04	200
S	130.0	9.4	83586	6.484E-05	2.205E-04	200
	130.0	10.8	77019	5.989E-05	2.036E-04	200
Z	130.0	13.5	58327	4.536E-05	1.542E-04	200
	130.0	16.2	56815	4.418E-05	1.502E-04	200
S	130.0	18.9	47976	3.731E-05	1.268E-04	200
	130.0	21.6	57302	4.456E-05	1.515E-04	200
	130.0	24.3	42121	3.275E-05	1.114E-04	200
	130.0	27.0	34653	2.695E-05	9.162E-05	200

TEST FT31 MARCH 11, 1960 0955 TO 1025 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 ROOM ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 2M

	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
	110.0	22	1.775E-08	6.036E-08		800
	112.0	36	2.841E-08	9.658E-08		800
	114.0	550	4.279E-07	1.455E-06		800
	116.0	3586	2.789E-06	9.483E-06		800
	118.0	7399	5.754E-06	1.956E-05		800
	120.0	9810	7.629E-06	2.594E-05		800
	122.0	10630	8.266E-06	2.811E-05		800
	124.0	10546	8.201E-06	2.788E-05		800
	126.0	8130	6.322E-06	2.150E-05		800
	128.0	3609	2.807E-06	9.544E-06		800
	130.0	3253	2.530E-06	8.602E-06		800
	132.0	2372	1.845E-06	6.272E-06		800
	134.0	2146	1.669E-06	5.674E-06		800
	136.0	1703	1.324E-06	4.503E-06		800
	138.0	1034	8.043E-07	2.735E-06		800
	140.0	570	4.439E-07	1.509E-06		800
	142.0	310	2.415E-07	8.210E-07		800
	144.0	189	1.474E-07	5.010E-07		800
	146.0	15	1.243E-08	4.226E-08		800

CROSSWIND INTEGRATED= 1.831E-03 4.867E-03
 SEC/90.M 1/M

TEST FT31 MARCH 11, 1960 0955 TO 1025 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 ROOM ARC U= 3.4 M/SEC AT 2M

	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
	114.0	1.0	272	2.120E-07	7.208E-07	800
	114.0	2.1	403	3.136E-07	1.066E-06	800
	114.0	4.2	380	2.962E-07	1.007E-06	800
	114.0	6.3	392	3.049E-07	1.037E-06	800
	114.0	8.4	500	3.891E-07	1.323E-06	800
	114.0	10.5	606	4.719E-07	1.605E-06	800
	114.0	12.6	550	4.284E-07	1.456E-06	800
	114.0	14.7	718	5.590E-07	1.901E-06	800
	114.0	16.8	773	6.011E-07	2.044E-06	800
	114.0	21.0	745	5.794E-07	1.970E-06	800
	114.0	25.2	766	5.962E-07	2.027E-06	800
	114.0	29.4	587	4.570E-07	1.554E-06	800
	114.0	33.6	903	7.025E-07	2.389E-06	800
	114.0	37.8	584	4.544E-07	1.545E-06	800
	114.0	42.0	535	4.163E-07	1.415E-06	800

	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
	122.0	1.0	10204	7.935E-06	2.698E-05	800
	122.0	2.1	12255	9.530E-06	3.240E-05	800
	122.0	4.2	15554	1.210E-05	4.112E-05	800
	122.0	6.3	11181	8.695E-06	2.956E-05	800
	122.0	8.4	10955	8.519E-06	2.897E-05	800
	122.0	10.5	10824	8.417E-06	2.862E-05	800
	122.0	12.6	12036	9.360E-06	3.182E-05	800
	122.0	14.7	11474	8.923E-06	3.034E-05	800
	122.0	16.8	11398	8.863E-06	3.014E-05	800
	122.0	21.0	11405	8.869E-06	3.015E-05	800
	122.0	25.2	10475	8.146E-06	2.769E-05	800
	122.0	29.4	10939	8.507E-06	2.892E-05	800
	122.0	33.6	9877	7.641E-06	2.611E-05	800
	122.0	37.8	10272	7.988E-06	2.716E-05	800
	122.0	42.0	8593	6.683E-06	2.272E-05	800

	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
Z	130.0	1.0	2591	2.015E-06	6.852E-06	800
Z	130.0	2.1	2705	2.104E-06	7.154E-06	800
Z	130.0	4.2	3251	2.528E-06	8.595E-06	800
Z	130.0	6.3	2899	2.255E-06	7.667E-06	800
Z	130.0	8.4	3258	2.534E-06	8.615E-06	800
Z	130.0	10.5	3575	2.781E-06	9.454E-06	800
Z	130.0	12.6	3984	3.099E-06	1.054E-05	800
Z	130.0	14.7	3846	2.991E-06	1.017E-05	800
Z	130.0	16.8	3478	2.705E-06	9.198E-06	800
Z	130.0	21.0	4375	3.402E-06	1.157E-05	800
Z	130.0	25.2	3777	2.938E-06	9.988E-06	800
Z	130.0	29.4	4037	3.140E-06	1.068E-05	800
Z	130.0	33.6	4262	3.314E-06	1.127E-05	800
Z	130.0	37.8	4353	3.385E-06	1.151E-05	800
Z	130.0	42.0	4714	3.666E-06	1.247E-05	800

TEST FT31 MARCH 11, 1960 0955 TO 1025 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 2M

AZIMUTH DEGR/FES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
113.0	78	6.139E-08	2.087E-07	1600
114.0	70	5.457E-08	1.855E-07	1600
115.0	143	1.269E-07	4.314E-07	1600
116.0	463	3.602E-07	1.225E-06	1600
117.0	864	6.726E-07	2.287E-06	1600
118.0	1547	1.203E-06	4.091E-06	1600
119.0	1589	1.236E-06	4.202E-06	1600
120.0	2124	1.652E-06	5.617E-06	1600
121.0	2101	1.634E-06	5.557E-06	1600
122.0	3103	2.413E-06	8.205E-06	1600
123.0	2270	1.765E-06	6.002E-06	1600
124.0	3014	2.344E-06	7.969E-06	1600
125.0	1554	1.209E-06	4.110E-06	1600
126.0	1568	1.220E-06	4.147E-06	1600
127.0	871	6.780E-07	2.305E-06	1600
128.0	698	5.430E-07	1.846E-06	1600
129.0	749	5.825E-07	1.981E-06	1600
130.0	668	5.198E-07	1.767E-06	1600
131.0	570	4.434E-07	1.507E-06	1600
132.0	719	5.593E-07	1.902E-06	1600
133.0	670	5.211E-07	1.772E-06	1600
134.0	442	3.438E-07	1.169E-06	1600
135.0	238	1.855E-07	6.308E-07	1600
136.0	349	2.715E-07	9.230E-07	1600
137.0	322	2.510E-07	8.535E-07	1600
138.0	242	1.853E-07	6.401E-07	1600

CROSSKIND INTEGRATED= 5.875E-04 1.998E-03
SEC/8Q.M 1/M

TOWER DATA FOLLOW...

TEST FT31 MARCH 11, 1960 0955 TO 1025 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC U= 3.4 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	1.5	100	7.818E-08	2.458E-07	1600
114.0	3.1	88	6.899E-08	2.346E-07	1600
114.0	6.2	125	9.773E-08	3.323E-07	1600
114.0	9.3	85	6.669E-08	2.267E-07	1600
114.0	12.4	85	6.669E-08	2.267E-07	1600
114.0	15.5	94	7.358E-08	2.502E-07	1600
114.0	18.6	72	5.634E-08	1.916E-07	1600
114.0	21.7	76	5.979E-08	2.033E-07	1600
114.0	24.8	86	3.589E-08	1.220E-07	1600
114.0	31.0	24	1.900E-08	6.460E-08	1600
114.0	37.2	21	1.689E-08	5.742E-08	1600
114.0	43.4	10	8.444E-09	2.871E-08	1600
114.0	49.6	52	4.070E-08	1.384E-07	1600
114.0	55.8	3	2.907E-09	9.684E-09	1600
114.0	62.0	8	6.783E-09	2.306E-08	1600

AZIMUTH DEGR/FES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
122.0	1.5	2655	2.065E-06	7.021E-06	1600
122.0	3.1	2515	1.956E-06	6.650E-06	1600
122.0	6.2	2424	1.886E-06	6.411E-06	1600
122.0	9.3	2694	2.095E-06	7.123E-06	1600
122.0	12.4	2416	1.879E-06	6.388E-06	1600
122.0	15.5	2691	2.093E-06	7.115E-06	1600
122.0	18.6	3872	3.013E-06	1.024E-05	1600
122.0	21.7	3232	2.513E-06	8.546E-06	1600
122.0	24.8	3151	2.451E-06	8.333E-06	1600
122.0	31.0	2849	2.216E-06	7.533E-06	1600
122.0	37.2	2642	2.055E-06	6.987E-06	1600
122.0	43.4	2568	1.997E-06	6.790E-06	1600
122.0	49.6	2428	1.889E-06	6.421E-06	1600
122.0	55.8	2000	1.555E-06	5.288E-06	1600
122.0	62.0	1860	1.447E-06	4.919E-06	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
130.0	1.5	433	3.369E-07	1.145E-06	1600
130.0	3.1	570	4.438E-07	1.509E-06	1600
130.0	6.2	632	4.921E-07	1.673E-06	1600
130.0	9.3	229	1.782E-07	6.059E-07	1600
130.0	12.4	1051	8.175E-07	2.779E-06	1600
130.0	15.5	1015	7.899E-07	2.686E-06	1600
130.0	18.6	910	7.083E-07	2.408E-06	1600
130.0	21.7	885	6.887E-07	2.342E-06	1600
130.0	24.8	914	7.114E-07	2.419E-06	1600
130.0	31.0	703	5.468E-07	1.859E-06	1600
130.0	37.2	644	5.024E-07	1.708E-06	1600
130.0	43.4	1095	8.518E-07	2.896E-06	1600
130.0	49.6	994	7.733E-07	2.629E-06	1600
130.0	55.8	596	4.642E-07	1.578E-06	1600
130.0	62.0	1365	1.062E-06	3.611E-06	1600

TEST FT31 MARCH 11, 1960 0955 TO 1025 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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80.0	12	1.009E-08	3.430E-08	3200
81.0	1	1.441E-09	4.900E-09	3200
82.0	0	7.206E-10	2.450E-09	3200
83.0	0	0.000E+00	0.000E+00	3200
84.0	0	0.000E+00	0.000E+00	3200
85.0	12	9.368E-09	3.185E-08	3200
86.0	0	0.000E+00	0.000E+00	3200
87.0	6	5.040E-09	1.715E-08	3200
88.0	12	9.368E-09	3.185E-08	3200
112.0	9	7.206E-09	2.450E-08	3200
Z 113.0	26	2.090E-08	7.106E-08	3200
Z 114.0	75	5.909E-08	2.009E-07	3200
Z 115.0	106	8.287E-08	2.818E-07	3200
116.0	263	2.047E-07	6.958E-07	3200
117.0	322	2.508E-07	8.527E-07	3200
Q 118.0	394	3.070E-07	1.044E-06	3200
Q 119.0	473	3.682E-07	1.252E-06	3200
Q 120.0	482	3.755E-07	1.277E-06	3200
121.0	580	4.511E-07	1.534E-06	3200
122.0	563	4.381E-07	1.490E-06	3200
123.0	518	4.028E-07	1.370E-06	3200
124.0	634	4.936E-07	1.678E-06	3200
125.0	898	6.990E-07	2.377E-06	3200
126.0	992	7.718E-07	2.624E-06	3200
127.0	811	6.313E-07	2.146E-06	3200
128.0	562	4.370E-07	1.487E-06	3200
129.0	473	3.682E-07	1.252E-06	3200
130.0	472	3.675E-07	1.250E-06	3200
131.0	385	2.998E-07	1.019E-06	3200
132.0	278	2.162E-07	7.351E-07	3200
133.0	321	2.501E-07	8.502E-07	3200
134.0	290	2.263E-07	7.694E-07	3200
135.0	301	2.342E-07	7.963E-07	3200
136.0	183	1.427E-07	4.851E-07	3200
137.0	215	1.672E-07	5.684E-07	3200
138.0	132	1.031E-07	3.504E-07	3200
139.0	35	2.738E-08	9.311E-08	3200
140.0	72	5.621E-08	1.911E-07	3200
141.0	10	7.927E-09	2.695E-08	3200

CROSSWIND INTEGRATED= 4.856E-04 SEC/SQ.M 1.651E-03 1/M

TOWER DATA FOLLOWING...

TEST FT31 MARCH 11, 1960 0955 TO 1025 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC U= 3.4 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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114.0	1.5	71	5.555E-08	1.889E-07	3200
114.0	3.1	31	2.476E-08	8.420E-08	3200
114.0	6.2	65	5.087E-08	1.729E-07	3200
114.0	9.3	61	4.752E-08	1.616E-07	3200
114.0	12.4	75	5.890E-08	2.003E-07	3200
114.0	15.5	32	2.543E-08	8.647E-08	3200
114.0	18.6	50	3.949E-08	1.343E-07	3200
114.0	21.7	86	6.760E-08	2.298E-07	3200
114.0	24.8	39	3.107E-08	1.056E-07	3200
114.0	31.0	13	1.078E-08	3.665E-08	3200
114.0	37.2	32	2.536E-08	8.623E-08	3200
114.0	43.4	18	1.458E-08	4.958E-08	3200
114.0	49.6	59	4.625E-08	1.573E-07	3200
114.0	55.8	29	2.283E-08	7.761E-08	3200
114.0	62.0	11	9.010E-09	3.063E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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122.0	1.5	392	3.052E-07	1.038E-06	3200
122.0	3.1	543	4.223E-07	1.436E-06	3200
122.0	6.2	724	5.635E-07	1.916E-06	3200
122.0	9.3	668	5.200E-07	1.768E-06	3200
122.0	12.4	685	5.328E-07	1.811E-06	3200
122.0	15.5	778	6.050E-07	2.057E-06	3200
122.0	18.6	614	4.779E-07	1.625E-06	3200
122.0	21.7	715	5.562E-07	1.891E-06	3200
122.0	24.8	547	4.261E-07	1.449E-06	3200
122.0	31.0	545	4.242E-07	1.442E-06	3200
122.0	37.2	576	4.483E-07	1.524E-06	3200
122.0	43.4	499	3.887E-07	1.321E-06	3200
122.0	49.6	417	3.250E-07	1.105E-06	3200
122.0	55.8	545	4.241E-07	1.442E-06	3200
122.0	62.0	642	5.154E-07	1.752E-06	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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130.0	1.5	453	3.527E-07	1.199E-06	3200
130.0	3.1	561	4.368E-07	1.480E-06	3200
130.0	6.2	533	4.150E-07	1.411E-06	3200
130.0	9.3	445	3.775E-07	1.283E-06	3200
130.0	12.4	549	4.277E-07	1.454E-06	3200
130.0	15.5	570	4.437E-07	1.509E-06	3200
130.0	18.6	588	4.578E-07	1.557E-06	3200
Z 130.0	21.7	529	4.116E-07	1.399E-06	3200
130.0	24.8	499	3.887E-07	1.321E-06	3200
130.0	31.0	518	4.033E-07	1.371E-06	3200
130.0	37.2	477	3.716E-07	1.263E-06	3200
130.0	43.4	548	4.267E-07	1.451E-06	3200
130.0	49.6	511	3.976E-07	1.352E-06	3200
130.0	55.8	607	4.727E-07	1.607E-06	3200
130.0	62.0	801	6.229E-07	2.118E-06	3200

30-SERIES EXPERIMENT: 40 (FT-40)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS

TEST FT40 AUGUST 31, 1960 1405 TO 1555 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU,M X10E+6	F/D SEC/CU,M	FU/D 1/SG,M	DISTANCE METERS
78.0	14	1.231E-04	3.938E-08	200
80.0	57	0.719E-04	1.510E-07	200
82.0	34	2.872E-04	9.190E-08	200
84.0	7	6.154E-04	1.969E-08	200
86.0	17	1.438E-04	4.595E-08	200
88.0	322	2.667E-07	8.533E-07	200
90.0	1260	1.042E-06	3.335E-06	200
92.0	3072	2.539E-06	8.126E-06	200
94.0	4914	4.061E-06	1.300E-05	200
96.0	7761	6.414E-06	2.053E-05	200
98.0	10608	8.767E-06	2.805E-05	200
100.0	14331	1.184E-05	3.790E-05	200
102.0	19985	1.652E-05	5.285E-05	200
104.0	22946	1.896E-05	6.068E-05	200
106.0	23790	1.966E-05	6.292E-05	200
108.0	57880	4.788E-05	1.531E-04	200
110.0	82003	6.777E-05	2.169E-04	200
112.0	128104	1.059E-04	3.388E-04	200
114.0	119983	9.916E-05	3.173E-04	200
116.0	197944	1.636E-04	5.235E-04	200
118.0	214233	1.771E-04	5.666E-04	200
120.0	306178	2.530E-04	8.096E-04	200
122.0	197641	1.633E-04	5.227E-04	200
124.0	246082	2.034E-04	6.508E-04	200
126.0	458067	3.786E-04	1.211E-03	200
128.0	138770	1.147E-04	3.670E-04	200
130.0	65505	5.414E-05	1.732E-04	200
132.0	36259	2.977E-05	9.589E-05	200
134.0	18108	1.497E-05	4.789E-05	200
136.0	9888	8.172E-06	2.615E-05	200
138.0	4286	3.543E-06	1.134E-05	200
140.0	3430	2.835E-06	9.071E-06	200
142.0	3072	2.539E-06	8.126E-06	200
144.0	1280	1.059E-06	3.387E-06	200
146.0	402	3.323E-07	1.063E-06	200
148.0	32	2.667E-08	8.533E-08	200

CROSSWIND INTEGRATED= 1.384E-02
SEC/SG,M 1/M

TOWER DATA FOLLOW....

TEST FT40 AUGUST 31, 1960 1405 TO 1555 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	F/D SEC/CU,M	FU/D 1/SG,M	DISTANCE METERS
98.0	0.7	3721	3.076E-06	9.842E-06	200
98.0	1.4	2545	2.104E-06	6.732E-06	200
98.0	2.7	2549	2.107E-06	6.743E-06	200
98.0	4.1	2859	2.363E-06	7.563E-06	200
98.0	5.4	3006	2.485E-06	7.952E-06	200
98.0	6.8	2493	2.061E-06	6.594E-06	200
98.0	8.1	2198	1.817E-06	5.814E-06	200
98.0	9.4	2243	1.854E-06	5.932E-06	200
98.0	10.8	1894	1.565E-06	5.009E-06	200
98.0	13.5	1582	1.308E-06	4.186E-06	200
98.0	16.2	964	7.974E-07	2.552E-06	200
98.0	18.9	672	5.559E-07	1.779E-06	200
98.0	21.6	510	4.219E-07	1.350E-06	200
98.0	24.3	360	2.978E-07	9.530E-07	200
98.0	27.0	367	3.034E-07	9.708E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	F/D SEC/CU,M	FU/D 1/SG,M	DISTANCE METERS
106.0	0.7	10623	8.780E-06	2.809E-05	200
106.0	1.4	6306	5.212E-06	1.668E-05	200
106.0	2.7	8145	6.749E-06	2.160E-05	200
106.0	4.1	10345	8.550E-06	2.736E-05	200
106.0	5.4	7597	6.279E-06	2.009E-05	200
106.0	6.8	8258	6.825E-06	2.184E-05	200
106.0	8.1	9516	7.865E-06	2.517E-05	200
106.0	9.4	6723	5.558E-06	1.778E-05	200
106.0	10.8	7530	6.224E-06	1.992E-05	200
106.0	13.5	4702	3.886E-06	1.244E-05	200
106.0	16.2	4447	3.603E-06	1.166E-05	200
106.0	18.9	4741	3.960E-06	1.267E-05	200
106.0	21.6	1052	8.702E-07	2.785E-06	200
106.0	24.3	2492	2.225E-06	7.120E-06	200
106.0	27.0	1786	1.476E-06	4.724E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	F/D SEC/CU,M	FU/D 1/SG,M	DISTANCE METERS
114.0	0.7	56966	4.708E-05	1.507E-04	200
114.0	1.4	33870	2.799E-05	8.957E-05	200
114.0	2.7	34461	2.848E-05	9.114E-05	200
114.0	4.1	34731	3.201E-05	1.024E-04	200
114.0	5.4	35020	2.894E-05	9.262E-05	200
114.0	6.8	39490	3.264E-05	1.044E-04	200
114.0	8.1	34341	2.832E-05	9.082E-05	200
114.0	9.4	32161	2.658E-05	8.506E-05	200
114.0	10.8	28782	2.379E-05	7.612E-05	200
114.0	13.5	24808	2.050E-05	6.561E-05	200
114.0	16.2	20317	1.679E-05	5.373E-05	200
114.0	18.9	13348	1.103E-05	3.530E-05	200
114.0	21.6	12020	9.935E-06	3.179E-05	200
114.0	24.3	11519	9.521E-06	3.047E-05	200
114.0	27.0	6037	4.989E-06	1.597E-05	200

WIND DATA FOLLOWING...
 AZIMUTH HEIGHT EXPOSURE E/O EU/O DISTANCE
 DEGREES METERS GM-SEC/CM SEC/CM 1/SQ.M METERS

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM	E/O SEC/CM	EU/O 1/SQ.M	DISTANCE METERS
122.0	0.7	71421	5.936E-05	1.899E-04	200
122.0	1.4	52454	4.335E-05	1.387E-04	200
122.0	2.7	63499	5.281E-05	1.690E-04	200
122.0	4.1	71044	5.875E-05	1.880E-04	200
122.0	5.4	53664	4.435E-05	1.419E-04	200
122.0	6.8	54239	4.443E-05	1.434E-04	200
122.0	8.1	49274	4.072E-05	1.303E-04	200
122.0	9.4	43957	3.633E-05	1.163E-04	200
122.0	10.8	32520	2.688E-05	8.600E-05	200
122.0	13.5	30724	2.535E-05	8.125E-05	200
122.0	16.2	27035	2.234E-05	7.150E-05	200
122.0	18.9	18574	1.535E-05	4.912E-05	200
122.0	21.6	16325	1.349E-05	4.317E-05	200
122.0	24.3	8994	7.434E-06	2.379E-05	200
122.0	27.0	7099	5.867E-06	1.877E-05	200

AZIMUTH HEIGHT EXPOSURE E/O EU/O DISTANCE
 DEGREES METERS GM-SEC/CM SEC/CM 1/SQ.M METERS

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM	E/O SEC/CM	EU/O 1/SQ.M	DISTANCE METERS
130.0	0.7	22649	1.872E-05	5.990E-05	200
130.0	1.4	18365	1.513E-05	4.841E-05	200
130.0	2.7	19397	1.603E-05	5.130E-05	200
130.0	4.1	19293	1.595E-05	5.102E-05	200
130.0	5.4	21519	1.778E-05	5.691E-05	200
130.0	6.8	16706	1.381E-05	4.418E-05	200
130.0	8.1	18820	1.555E-05	4.977E-05	200
130.0	9.4	15734	1.300E-05	4.161E-05	200
130.0	10.8	14075	1.163E-05	3.722E-05	200
130.0	13.5	15886	1.296E-05	4.149E-05	200
130.0	16.2	9801	8.101E-06	2.592E-05	200
130.0	18.9	7926	6.551E-06	2.096E-05	200
130.0	21.6	6115	5.220E-06	1.670E-05	200
130.0	24.3	4814	3.979E-06	1.273E-05	200
130.0	27.0	4256	3.518E-06	1.126E-05	200

TEST F140 AUGUST 31, 1960 1405 TO 1555 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 800M ARC SAMPLER AT 1.5M U= 3.2 M/SEC AT 2M

AZIMUTH HEIGHT EXPOSURE E/O EU/O DISTANCE
 DEGREES METERS GM-SEC/CM SEC/CM 1/SQ.M METERS

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM	E/O SEC/CM	EU/O 1/SQ.M	DISTANCE METERS
96.0	3.8	3.175E-08	1.016E-07		800
98.0	1.6	1.329E-07	4.254E-07		800
100.0	2.95	2.361E-07	7.556E-07		800
102.0	4.99	4.127E-07	1.321E-06		800
104.0	4.70	3.889E-07	1.245E-06		800
106.0	9.26	7.459E-07	2.451E-06		800
108.0	16.35	1.351E-06	4.324E-06		800
110.0	29.38	2.429E-06	7.772E-06		800
112.0	44.99	3.718E-06	1.190E-05		800
114.0	79.20	6.548E-06	2.095E-05		800
116.0	113.87	9.411E-06	3.012E-05		800
118.0	144.55	1.195E-05	3.823E-05		800
120.0	113.87	9.411E-06	3.012E-05		800
122.0	97.83	8.046E-06	2.587E-05		800
124.0	130.92	1.042E-05	3.462E-05		800
126.0	74.74	6.177E-06	1.977E-05		800
128.0	54.74	4.524E-06	1.448E-05		800
130.0	23.84	1.970E-06	6.305E-06		800
132.0	7.94	8.568E-07	2.102E-06		800
134.0	1.27	1.052E-07	3.365E-07		800
136.0	74	6.151E-06	1.968E-07		800
138.0	31	2.579E-06	8.254E-08		800

CROSSWIND INTEGRATED= 2.212E+03 7.078E-03
 SEC/SQ.M 1/M

TEST F140 AUGUST 31, 1960 1405 TO 1555 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 800M ARC U= 3.2 M/SEC AT 2M

AZIMUTH HEIGHT EXPOSURE E/O EU/O DISTANCE
 DEGREES METERS GM-SEC/CM SEC/CM 1/SQ.M METERS

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM	E/O SEC/CM	EU/O 1/SQ.M	DISTANCE METERS
98.0	1.0	39	3.251E-08	1.053E-07	800
98.0	2.1	50	4.172E-08	1.335E-07	800
98.0	4.2	46	3.819E-08	1.222E-07	800
98.0	6.3	86	7.169E-08	2.294E-07	800
98.0	8.4	57	4.760E-08	1.523E-07	800
98.0	10.5	55	4.583E-08	1.467E-07	800
98.0	12.6	73	6.111E-08	1.956E-07	800
98.0	14.7	56	4.701E-08	1.504E-07	800
98.0	16.8	62	5.171E-08	1.655E-07	800
98.0	21.0	44	3.878E-08	1.241E-07	800
98.0	25.2	68	5.678E-08	1.817E-07	800
98.0	29.4	64	5.344E-08	1.710E-07	800
98.0	33.6	49	4.064E-08	1.300E-07	800
98.0	37.8	57	4.732E-08	1.514E-07	800
98.0	42.0	74	6.123E-08	1.959E-07	800

AZIMUTH HEIGHT EXPOSURE E/O EU/O DISTANCE
 DEGREES METERS GM-SEC/CM SEC/CM 1/SQ.M METERS

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM	E/O SEC/CM	EU/O 1/SQ.M	DISTANCE METERS
106.0	1.0	405	3.355E-07	1.074E-06	800
106.0	2.1	344	2.850E-07	9.120E-07	800
106.0	4.2	468	3.872E-07	1.239E-06	800
106.0	6.3	415	3.437E-07	1.100E-06	800
106.0	8.4	506	4.184E-07	1.339E-06	800
106.0	10.5	398	3.296E-07	1.055E-06	800
106.0	12.6	456	3.772E-07	1.207E-06	800
106.0	14.7	441	3.649E-07	1.168E-06	800
106.0	16.8	371	3.073E-07	9.834E-07	800
106.0	21.0	326	2.697E-07	8.631E-07	800
106.0	25.2	294	2.433E-07	7.784E-07	800
106.0	29.4	431	3.568E-07	1.142E-06	800
106.0	33.6	378	3.128E-07	1.001E-06	800
106.0	37.8	403	3.663E-07	1.172E-06	800
106.0	42.0	371	3.073E-07	9.833E-07	800

AZIMUTH HEIGHT EXPOSURE E/O EU/O DISTANCE
 DEGREES METERS GM-SEC/CM SEC/CM 1/SQ.M METERS

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM	E/O SEC/CM	EU/O 1/SQ.M	DISTANCE METERS
Q 114.0	1.0	1781	1.473E-06	4.712E-06	800
Q 114.0	2.1	1613	1.333E-06	4.266E-06	800
Q 114.0	4.2	2927	2.419E-06	7.741E-06	800
Q 114.0	6.3	2274	1.880E-06	6.015E-06	800
Q 114.0	8.4	2322	1.920E-06	6.143E-06	800
Q 114.0	10.5	2147	1.775E-06	5.679E-06	800
Q 114.0	12.6	1968	1.628E-06	5.205E-06	800
Q 114.0	14.7	2401	1.984E-06	6.350E-06	800
Q 114.0	16.8	2133	1.763E-06	5.643E-06	800
Q 114.0	21.0	2124	1.756E-06	5.618E-06	800
Q 114.0	25.2	1476	1.220E-06	3.905E-06	800
Q 114.0	29.4	1707	1.411E-06	4.516E-06	800
Q 114.0	33.6	1950	1.612E-06	5.159E-06	800
Q 114.0	37.8	1604	1.326E-06	4.243E-06	800
Q 114.0	42.0	1448	1.190E-06	3.808E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	F/Q SEC/CU,M	EU/Q 1/SQ,M	DISTANCE METERS
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122.0	1.0	560	4.636E-07	1.484E-06	800
122.0	2.1	844	6.981E-07	2.234E-06	800
122.0	4.2	720	5.958E-07	1.907E-06	800
122.0	6.3	856	7.075E-07	2.269E-06	800
122.0	8.4	853	7.057E-07	2.258E-06	800
122.0	10.5	848	7.016E-07	2.245E-06	800
122.0	12.6	1281	1.054E-06	3.390E-06	800
122.0	14.7	855	7.069E-07	2.262E-06	800
122.0	16.8	851	7.034E-07	2.251E-06	800
122.0	21.0	947	7.827E-07	2.505E-06	800
122.0	25.2	853	7.053E-07	2.257E-06	800
122.0	29.4	569	4.709E-07	1.507E-06	800
122.0	33.6	501	4.142E-07	1.325E-06	800
122.0	37.8	436	3.607E-07	1.154E-06	800
122.0	42.0	423	3.501E-07	1.120E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	F/Q SEC/CU,M	EU/Q 1/SQ,M	DISTANCE METERS
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130.0	1.0	2922	2.416E-06	7.730E-06	800
130.0	2.1	3438	2.847E-06	9.093E-06	800
130.0	4.2	3453	3.185E-06	1.019E-05	800
130.0	6.3	2830	2.346E-06	7.506E-06	800
130.0	8.4	3115	2.575E-06	8.240E-06	800
130.0	10.5	2479	2.049E-06	6.557E-06	800
130.0	12.6	2929	1.677E-06	5.366E-06	800
130.0	14.7	3225	2.665E-06	8.529E-06	800
130.0	16.8	3458	2.858E-06	9.146E-06	800
130.0	21.0	2874	2.376E-06	7.602E-06	800
130.0	25.2	2372	1.961E-06	6.274E-06	800
130.0	29.4	2798	2.313E-06	7.401E-06	800
130.0	33.6	2576	2.129E-06	6.813E-06	800
130.0	37.8	1724	1.426E-06	4.562E-06	800
130.0	42.0	1812	1.498E-06	4.793E-06	800

TEST FT40 AUGUST 31, 1960 1405 TO 1555 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU,M X10E+6	F/Q SEC/CU,M	EU/Q 1/SQ,M	DISTANCE METERS
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100.0	42	3.980E-08	1.114E-07	1600
101.0	84	6.961E-08	2.228E-07	1600
102.0	155	1.286E-07	4.116E-07	1600
103.0	122	1.014E-07	3.244E-07	1600
104.0	197	1.634E-07	5.230E-07	1600
105.0	104	8.624E-08	2.760E-07	1600
106.0	221	1.831E-07	5.859E-07	1600
107.0	258	2.134E-07	6.828E-07	1600
108.0	347	2.875E-07	9.201E-07	1600
109.0	309	2.557E-07	8.184E-07	1600
110.0	443	3.662E-07	1.172E-06	1600
111.0	545	4.509E-07	1.443E-06	1600
112.0	1232	1.018E-06	3.259E-06	1600
113.0	1776	1.468E-06	4.697E-06	1600
114.0	1192	9.851E-07	3.152E-06	1600
115.0	1636	1.353E-06	4.329E-06	1600
116.0	2206	1.823E-06	5.835E-06	1600
117.0	2556	2.113E-06	6.760E-06	1600
118.0	2508	2.073E-06	6.634E-06	1600
119.0	2949	2.438E-06	7.801E-06	1600
120.0	2354	1.946E-06	6.227E-06	1600
121.0	2869	2.371E-06	7.588E-06	1600
122.0	2814	2.326E-06	7.443E-06	1600
123.0	2072	1.713E-06	5.482E-06	1600
124.0	1327	1.097E-06	3.511E-06	1600
125.0	1226	1.014E-06	3.244E-06	1600
126.0	1591	1.315E-06	4.208E-06	1600
127.0	1597	1.312E-06	4.198E-06	1600
128.0	983	8.126E-07	2.600E-06	1600
129.0	325	2.694E-07	8.619E-07	1600
130.0	347	2.875E-07	9.201E-07	1600
131.0	309	2.557E-07	8.184E-07	1600
132.0	186	1.544E-07	4.939E-07	1600
133.0	45	3.783E-08	1.211E-07	1600

CROSSKIND INTEGRATEFI = 8.524E-04
SEC/SC,M 2.728E-03
1/M

TONER DATA FOLLOW....

TEST FT40 AUGUST 31, 1960 1405 TO 1555 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC U= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	F/Q SEC/CU,M	EU/Q 1/SQ,M	DISTANCE METERS
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98.0	1.5	9	7.639E-09	2.444E-08	1600
98.0	3.1	4	4.113E-09	1.316E-08	1600
98.0	6.2	9	7.639E-09	2.444E-08	1600
98.0	9.3	16	1.351E-08	4.325E-08	1600
98.0	12.4	12	1.058E-08	3.385E-08	1600
98.0	15.5	3	2.938E-09	9.402E-09	1600
98.0	18.6	11	9.402E-09	3.069E-08	1600
98.0	21.7	22	1.822E-08	5.829E-08	1600
98.0	24.8	6	5.010E-09	1.603E-08	1600
98.0	31.0	2	1.670E-09	5.344E-09	1600
98.0	37.2	4	3.340E-09	1.069E-08	1600
98.0	43.4	4	3.340E-09	1.069E-08	1600
98.0	49.6	15	1.249E-08	3.996E-08	1600
98.0	55.8	16	1.405E-08	4.495E-08	1600
98.0	62.0	1	1.561E-09	4.995E-09	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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106.0	1.5	90	7.463E-08	2.388E-07	1600
106.0	3.1	99	8.226E-08	2.632E-07	1600
106.0	6.2	45	3.761E-08	1.203E-07	1600
106.0	9.3	77	6.405E-08	2.050E-07	1600
106.0	12.4	98	8.105E-08	2.595E-07	1600
106.0	15.5	91	7.580E-08	2.426E-07	1600
106.0	18.6	65	5.406E-08	1.730E-07	1600
106.0	21.7	113	9.402E-08	3.009E-07	1600
106.0	24.8	86	7.181E-08	2.298E-07	1600
106.0	31.0	87	7.237E-08	2.316E-07	1600
106.0	37.2	91	7.571E-08	2.423E-07	1600
106.0	43.4	117	9.686E-08	3.099E-07	1600
106.0	49.6	72	5.983E-08	1.915E-07	1600
106.0	55.8	91	7.596E-08	2.431E-07	1600
106.0	62.0	73	6.035E-08	1.931E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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130.0	1.5	69	5.758E-08	1.843E-07	1600
130.0	3.1	112	9.286E-08	2.971E-07	1600
130.0	6.2	108	8.990E-08	2.877E-07	1600
130.0	9.3	50	4.172E-08	1.335E-07	1600
130.0	12.4	157	1.304E-07	4.174E-07	1600
130.0	15.5	117	9.695E-08	3.103E-07	1600
130.0	18.6	116	9.637E-08	3.084E-07	1600
130.0	21.7	70	5.817E-08	1.862E-07	1600
130.0	24.8	115	9.575E-08	3.064E-07	1600
130.0	31.0	103	8.517E-08	2.725E-07	1600
130.0	37.2	96	8.016E-08	2.565E-07	1600
130.0	43.4	104	8.628E-08	2.761E-07	1600
130.0	49.6	62	5.203E-08	1.665E-07	1600
130.0	55.8	13	1.145E-08	3.663E-08	1600
130.0	62.0	76	6.295E-08	2.014E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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114.0	1.5	573	4.742E-07	1.517E-06	1600
114.0	3.1	505	4.178E-07	1.337E-06	1600
114.0	6.2	760	6.281E-07	2.010E-06	1600
114.0	9.3	870	7.192E-07	2.302E-06	1600
114.0	12.4	739	6.111E-07	1.956E-06	1600
114.0	15.5	754	6.246E-07	1.999E-06	1600
114.0	18.6	821	6.787E-07	2.172E-06	1600
114.0	21.7	824	6.810E-07	2.179E-06	1600
114.0	24.8	695	5.750E-07	1.840E-06	1600
114.0	31.0	767	6.340E-07	2.029E-06	1600
114.0	37.2	835	6.908E-07	2.211E-06	1600
114.0	43.4	363	3.006E-07	9.619E-07	1600
114.0	49.6	720	5.952E-07	1.905E-06	1600
114.0	55.8	531	4.396E-07	1.407E-06	1600
114.0	62.0	495	4.094E-07	1.310E-06	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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122.0	1.5	984	8.132E-07	2.602E-06	1600
122.0	3.1	1197	9.895E-07	3.166E-06	1600
122.0	6.2	1375	1.136E-06	3.637E-06	1600
122.0	9.3	1193	9.866E-07	3.157E-06	1600
122.0	12.4	1030	8.514E-07	2.725E-06	1600
122.0	15.5	1340	1.108E-06	3.546E-06	1600
122.0	18.6	1224	1.012E-06	3.238E-06	1600
122.0	21.7	955	7.897E-07	2.527E-06	1600
122.0	24.8	1306	1.079E-06	3.454E-06	1600
122.0	31.0	876	7.248E-07	2.319E-06	1600
122.0	37.2	863	7.136E-07	2.284E-06	1600
122.0	43.4	1136	9.396E-07	3.007E-06	1600
122.0	49.6	825	6.852E-07	2.193E-06	1600
122.0	55.8	727	6.014E-07	1.925E-06	1600
122.0	62.0	851	7.034E-07	2.251E-06	1600

TEST FT40 AUGUST 31, 1960 1405 TO 1555 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M APC SAMPLER HT 1.5M U= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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97.0	16	1.379E-08	4.412E-08	3200
98.0	2	2.298E-09	7.353E-09	3200
99.0	23	1.915E-08	6.127E-08	3200
100.0	33	2.757E-08	8.823E-08	3200
101.0	10	8.425E-09	2.696E-08	3200
102.0	24	1.991E-08	6.372E-08	3200
103.0	35	2.910E-08	9.313E-08	3200
104.0	12	1.072E-08	3.431E-08	3200
105.0	53	4.442E-08	1.422E-07	3200
106.0	51	4.289E-08	1.372E-07	3200
107.0	120	9.957E-08	3.186E-07	3200
108.0	88	7.276E-08	2.328E-07	3200
109.0	140	1.164E-07	3.725E-07	3200
110.0	139	1.149E-07	3.676E-07	3200
111.0	102	8.502E-08	2.720E-07	3200
112.0	135	1.118E-07	3.578E-07	3200
113.0	179	1.488E-07	4.755E-07	3200
114.0	250	2.068E-07	6.617E-07	3200
115.0	303	2.512E-07	8.039E-07	3200
116.0	264	2.183E-07	6.985E-07	3200
117.0	535	4.427E-07	1.417E-06	3200
118.0	410	3.393E-07	1.086E-06	3200
119.0	564	4.664E-07	1.493E-06	3200
120.0	468	3.868E-07	1.238E-06	3200
121.0	566	4.680E-07	1.497E-06	3200
122.0	480	3.975E-07	1.272E-06	3200
123.0	421	3.445E-07	1.115E-06	3200
124.0	332	2.750E-07	8.799E-07	3200
125.0	131	1.088E-07	3.480E-07	3200
126.0	95	7.849E-08	2.524E-07	3200
127.0	74	6.127E-08	1.961E-07	3200
128.0	75	2.068E-08	6.617E-08	3200
129.0	17	1.455E-08	4.657E-08	3200
130.0	7	6.127E-09	1.961E-08	3200
131.0	17	1.455E-08	4.657E-08	3200

CROSSWIND INTEGRATED= 2.833E-04 9.066E-08
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST FT40 AUGUST 31, 1960 1405 TO 1555 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 3200M ARC U= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	FU/G 1/SQ.M	DISTANCE METERS
98.0	1.5	10	8.814E-09	2.820E-08	3200
98.0	3.1	0	0.000E+00	0.000E+00	3200
98.0	6.2	2	1.763E-09	5.641E-09	3200
98.0	9.3	0	5.876E-10	1.800E-09	3200
D 98.0	12.4	4	4.113E-09	1.316E-08	3200
98.0	15.5	2	2.350E-09	7.521E-09	3200
98.0	18.6	12	9.989E-09	3.197E-08	3200
98.0	21.7	4	4.113E-09	1.316E-08	3200
98.0	24.8	0	5.567E-10	1.781E-09	3200
98.0	31.0	0	0.000E+00	0.000E+00	3200
98.0	37.2	2	1.670E-09	5.344E-09	3200
98.0	43.4	0	0.000E+00	0.000E+00	3200
98.0	49.6	6	5.203E-09	1.665E-08	3200
98.0	55.8	3	3.122E-09	9.989E-09	3200
98.0	62.0	6	5.203E-09	1.665E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	FU/G 1/SQ.M	DISTANCE METERS
122.0	1.5	273	2.256E-07	7.220E-07	3200
122.0	3.1	406	3.361E-07	1.076E-06	3200
122.0	6.2	351	2.909E-07	9.308E-07	3200
122.0	9.3	517	4.278E-07	1.369E-06	3200
122.0	12.4	429	3.549E-07	1.136E-06	3200
122.0	15.5	385	3.185E-07	1.019E-06	3200
122.0	18.6	460	3.802E-07	1.217E-06	3200
122.0	21.7	447	4.025E-07	1.288E-06	3200
122.0	24.8	284	2.355E-07	7.535E-07	3200
122.0	31.0	478	3.952E-07	1.265E-06	3200
122.0	37.2	464	3.841E-07	1.229E-06	3200
122.0	43.4	361	2.989E-07	9.566E-07	3200
122.0	49.6	404	3.345E-07	1.070E-06	3200
122.0	55.8	490	4.053E-07	1.297E-06	3200
122.0	62.0	408	3.378E-07	1.080E-06	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	FU/G 1/SQ.M	DISTANCE METERS
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AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	FU/G 1/SQ.M	DISTANCE METERS
106.0	1.5	45	3.761E-08	1.203E-07	3200
106.0	3.1	27	2.292E-08	7.333E-08	3200
106.0	6.2	111	9.225E-08	2.952E-07	3200
106.0	9.3	61	5.053E-08	1.617E-07	3200
106.0	12.4	96	7.991E-08	2.557E-07	3200
106.0	15.5	81	6.757E-08	2.162E-07	3200
106.0	18.6	115	9.578E-08	3.065E-07	3200
106.0	21.7	95	7.874E-08	2.520E-07	3200
106.0	24.8	94	7.793E-08	2.494E-07	3200
106.0	31.0	112	9.296E-08	2.975E-07	3200
106.0	37.2	86	7.181E-08	2.298E-07	3200
106.0	43.4	133	1.102E-07	3.527E-07	3200
106.0	49.6	166	1.379E-07	4.412E-07	3200
106.0	55.8	101	8.376E-08	2.680E-07	3200
106.0	62.0	16	1.405E-08	4.495E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	FU/G 1/SQ.M	DISTANCE METERS
130.0	1.5	2	2.350E-09	7.521E-09	3200
130.0	3.1	13	1.116E-08	3.573E-08	3200
130.0	6.2	3	2.938E-09	9.402E-09	3200
130.0	9.3	14	1.175E-08	3.761E-08	3200
130.0	12.4	10	8.814E-09	2.820E-08	3200
130.0	15.5	17	1.416E-08	4.513E-08	3200
9 130.0	18.6	5	4.701E-09	1.504E-08	3200
130.0	21.7	12	9.989E-09	3.197E-08	3200
130.0	24.8	9	7.793E-09	2.494E-08	3200
130.0	31.0	22	1.837E-08	5.878E-08	3200
130.0	37.2	30	2.561E-08	8.194E-08	3200
130.0	43.4	20	1.670E-08	5.344E-08	3200
130.0	49.6	18	1.509E-08	4.828E-08	3200
130.0	55.8	24	2.029E-08	6.493E-08	3200
130.0	62.0	28	2.341E-08	7.492E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	FU/G 1/SQ.M	DISTANCE METERS
114.0	1.5	243	2.010E-07	6.431E-07	3200
T 114.0	3.1	189	1.569E-07	5.020E-07	3200
114.0	6.2	300	2.486E-07	7.954E-07	3200
114.0	9.3	245	2.362E-07	7.559E-07	3200
114.0	12.4	329	2.726E-07	8.725E-07	3200
114.0	15.5	263	2.180E-07	6.976E-07	3200
114.0	18.6	285	2.356E-07	7.540E-07	3200
114.0	21.7	341	2.826E-07	9.044E-07	3200
114.0	24.8	438	3.624E-07	1.160E-06	3200
114.0	31.0	340	2.817E-07	9.013E-07	3200
114.0	37.2	278	2.305E-07	7.375E-07	3200
114.0	43.4	290	2.399E-07	7.677E-07	3200
114.0	49.6	300	2.482E-07	7.941E-07	3200
114.0	55.8	400	3.305E-07	1.059E-06	3200
114.0	62.0	265	2.190E-07	7.009E-07	3200

30-SERIES EXPERIMENT: 41 (FT-41)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS. MANY OF THE
FILTERS ON THE TOWERS SHOWED SIGNS OF WEATHERING.

TEST FT41 SEPTEMBER 1, 1960 1657 TO 1727 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLED HT 1.5M U= 4.3 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
84.0	22	1.944E-08	2.367E-08	200	
86.0	0	0.000E+00	0.000E+00	200	
88.0	15	1.297E-08	5.578E-08	200	
90.0	9	8.107E-09	3.486E-08	200	
92.0	11	9.729E-09	4.183E-08	200	
94.0	18	1.621E-08	6.972E-08	200	
96.0	40	5.189E-08	2.231E-07	200	
98.0	37	3.243E-08	1.394E-07	200	
100.0	33	2.919E-08	1.255E-07	200	
102.0	26	2.270E-08	9.761E-08	200	
104.0	17	1.243E-08	1.394E-07	200	
106.0	33	2.919E-08	1.255E-07	200	
108.0	175	1.508E-07	6.484E-07	200	
110.0	99	8.594E-08	3.695E-07	200	
112.0	399	3.437E-07	1.478E-06	200	
114.0	510	4.394E-07	1.889E-06	200	
116.0	1722	1.484E-06	6.380E-06	200	
118.0	9190	7.916E-06	3.404E-05	200	
120.0	27155	2.139E-05	1.006E-04	200	
122.0	45176	3.801E-05	1.673E-04	200	
124.0	131019	1.129E-04	4.853E-04	200	
126.0	129894	1.119E-04	4.811E-04	200	
128.0	271177	2.336E-04	1.004E-03	200	
130.0	239248	2.061E-04	8.861E-04	200	
132.0	230137	1.982E-04	8.524E-04	200	
134.0	185738	1.600E-04	6.879E-04	200	
136.0	109905	9.466E-05	4.071E-04	200	
138.0	39603	3.411E-05	1.467E-04	200	
140.0	15338	1.321E-05	5.681E-05	200	
142.0	2978	2.565E-06	1.103E-05	200	
144.0	649	5.594E-07	2.405E-06	200	
146.0	60	5.189E-08	2.231E-07	200	

CROSSWIND INTEGRATED= 8.662E-03 3.725E-02
SEC/SEC M

TOWER DATA FOLLOW...

TEST FT41 SEPTEMBER 1, 1960 1657 TO 1727 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 4.3 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
98.0	0.7	55	4.795E-08	2.062E-07	200
98.0	1.4	10	9.051E-09	3.892E-08	200
98.0	2.7	9	8.144E-09	3.503E-08	200
X 98.0	4.1	0	0.000E+00	0.000E+00	200
X 98.0	5.4	5	4.526E-09	1.946E-08	200
X 98.0	6.8	0	0.000E+00	0.000E+00	200
X 98.0	8.1	3	3.168E-09	1.362E-08	200
X 98.0	9.4	13	1.131E-08	4.865E-08	200
X 98.0	10.8	2	2.263E-09	9.730E-09	200
X 98.0	13.5	0	4.526E-10	1.946E-09	200
X 98.0	16.2	0	4.526E-10	1.946E-09	200
X 98.0	18.9	3	2.715E-09	1.168E-08	200
X 98.0	21.6	0	4.526E-10	1.946E-09	200
X 98.0	24.3	5	4.954E-09	2.130E-08	200
X 98.0	27.0	4	4.128E-09	1.775E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
106.0	0.7	309	2.669E-07	1.147E-06	200
106.0	1.4	10	9.051E-09	3.892E-08	200
106.0	2.7	15	1.358E-08	5.838E-08	200
106.0	4.1	21	1.856E-08	7.979E-08	200
106.0	5.4	11	9.504E-09	4.087E-08	200
106.0	6.8	4	3.621E-09	1.557E-08	200
106.0	8.1	2	2.263E-09	9.730E-09	200
106.0	9.4	11	9.956E-09	4.281E-08	200
106.0	10.8	5	4.526E-09	1.946E-08	200
106.0	13.5	2	1.810E-09	7.784E-09	200
106.0	16.2	0	4.526E-10	1.946E-09	200
106.0	18.9	2	1.810E-09	7.784E-09	200
106.0	21.6	1	9.051E-10	3.892E-09	200
106.0	24.3	7	6.192E-09	2.663E-08	200
106.0	27.0	2	2.064E-09	8.876E-09	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
114.0	0.7	314	2.877E-07	1.237E-06	200
114.0	1.4	85	2.377E-08	3.172E-07	200
114.0	2.7	128	1.105E-07	4.768E-07	200
114.0	4.1	162	1.403E-07	6.033E-07	200
114.0	5.4	386	3.331E-07	1.432E-06	200
114.0	6.8	213	1.837E-07	7.901E-07	200
114.0	8.1	249	2.150E-07	9.244E-07	200
114.0	9.4	367	3.163E-07	1.369E-06	200
114.0	10.8	271	2.339E-07	1.064E-06	200
114.0	13.5	309	2.666E-07	1.146E-06	200
114.0	16.2	214	1.846E-07	7.940E-07	200
114.0	18.9	105	9.051E-08	3.892E-07	200
114.0	21.6	50	4.390E-08	1.888E-07	200
114.0	24.3	19	1.693E-08	7.278E-08	200
F 114.0	27.0	41	3.550E-08	1.527E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
122.0	0.7	49243	4.241E-05	1.824E-04	200
122.0	1.4	15671	1.350E-05	5.804E-05	200
122.0	2.7	14791	1.274E-05	5.478E-05	200
122.0	4.1	15281	1.316E-05	5.660E-05	200
122.0	5.4	11750	1.012E-05	4.352E-05	200
122.0	6.8	13876	1.195E-05	5.139E-05	200
122.0	8.1	13717	1.182E-05	5.081E-05	200
122.0	9.4	10255	8.833E-06	3.798E-05	200
122.0	10.8	11431	9.846E-06	4.234E-05	200
122.0	13.5	8328	7.173E-06	3.084E-05	200
122.0	16.2	7414	6.387E-06	2.746E-05	200
122.0	18.9	5204	4.483E-06	1.928E-05	200
122.0	21.6	3478	2.996E-06	1.288E-05	200
122.0	24.3	826	7.117E-07	3.060E-06	200
122.0	27.0	1241	1.069E-06	4.598E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	FU/O 1/SEC.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	FU/O 1/SEC.M	DISTANCE METERS
130.0	0.7	297997	2.567E-04	1.104E-03	200	114.0	1.0	16	1.401E-08	6.024E-08	800
130.0	1.4	66618	5.738E-05	2.467E-04	200	114.0	2.1	13	1.182E-08	5.083E-08	800
130.0	2.7	68845	5.933E-05	2.551E-04	200	114.0	4.2	9	8.318E-09	3.577E-08	800
130.0	4.1	58850	5.069E-05	2.180E-04	200	114.0	6.3	13	1.138E-08	4.894E-08	800
130.0	5.4	67796	5.636E-05	2.509E-04	200	114.0	8.4	16	1.445E-08	6.212E-08	800
130.0	6.8	25695	2.213E-05	9.517E-05	200	114.0	10.5	6	5.691E-09	2.647E-08	800
130.0	8.1	48064	4.100E-05	1.780E-04	200	114.0	12.6	13	1.182E-08	5.083E-08	800
130.0	9.4	45741	3.940E-05	1.694E-04	200	114.0	14.7	2	2.189E-09	9.412E-09	800
130.0	10.8	45030	3.875E-05	1.668E-04	200	114.0	16.8	7	6.129E-09	2.635E-08	800
130.0	13.5	37817	3.257E-05	1.401E-04	200	114.0	21.0	2	2.189E-09	9.412E-09	800
130.0	16.2	19151	1.650E-05	7.093E-05	200	114.0	25.2	2	1.997E-09	8.586E-09	800
130.0	18.9	25088	2.161E-05	9.292E-05	200	114.0	29.4	1	1.198E-09	5.151E-09	800
130.0	21.6	10653	9.176E-06	3.944E-05	200	114.0	33.6	0	0.000E+00	0.000E+00	800
130.0	24.3	9384	8.083E-06	3.476E-05	200	114.0	37.8	6	5.191E-09	2.232E-08	800
130.0	27.0	4581	3.946E-06	1.697E-05	200	114.0	42.0	6	5.990E-09	2.576E-08	800

TEST F141 SEPTEMBER 1, 1960 1657 TO 1727 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM AWC SAMPLER HT 1.5M W = 4.3 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	FU/O 1/SEC.M	DISTANCE METERS
102.0	23	2.019E-08	8.768E-08	800	
104.0	0	0.000E+00	0.000E+00	800	
106.0	20	1.725E-08	7.419E-08	800	
108.0	0	0.000E+00	0.000E+00	800	
110.0	14	1.255E-08	5.355E-08	800	
112.0	30	2.666E-08	1.147E-07	800	
114.0	43	3.764E-08	1.619E-07	800	
116.0	74	6.431E-08	2.765E-07	800	
118.0	120	1.035E-07	4.451E-07	800	
120.0	229	1.976E-07	8.498E-07	800	
122.0	999	8.611E-07	3.703E-06	800	
124.0	5031	4.330E-06	1.863E-05	800	
126.0	9490	8.175E-06	3.515E-05	800	
128.0	21438	1.847E-05	7.948E-05	800	
130.0	17832	1.536E-05	6.605E-05	800	
0 132.0	7445	6.413E-06	2.758E-05	800	
0 134.0	4144	3.571E-06	1.536E-05	800	
0 136.0	1790	1.542E-06	6.630E-06	800	
0 138.0	254	2.196E-07	9.442E-07	800	

CROSSWIND INTEGRATED = 1.659E-03 7.135E-03
SEC/SEC.M 1/M

TOWER DATA FOLLOW....

TEST F141 SEPTEMBER 1, 1960 1657 TO 1727 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM AWC W = 4.3 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	FU/O 1/SEC.M	DISTANCE METERS
106.0	1.0	1	1.313E-09	5.647E-09	800
106.0	2.1	5	4.816E-09	2.071E-08	800
106.0	4.2	9	7.880E-09	3.388E-08	800
106.0	6.3	0	0.000E+00	0.000E+00	800
106.0	8.4	5	4.378E-09	1.882E-08	800
106.0	10.5	10	1.620E-08	6.965E-08	800
106.0	12.6	5	4.378E-09	1.882E-08	800
106.0	14.7	1	8.756E-10	3.765E-09	800
106.0	16.8	1	8.756E-10	3.765E-09	800
0 106.0	21.0	2	1.751E-09	7.530E-09	800
106.0	25.2	0	0.000E+00	0.000E+00	800
106.0	29.4	5	4.393E-09	1.889E-08	800
106.0	33.6	0	0.000E+00	0.000E+00	800
106.0	37.8	0	0.000E+00	0.000E+00	800
106.0	42.0	0	0.000E+00	0.000E+00	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	FU/O 1/SEC.M	DISTANCE METERS
122.0	1.0	227	1.961E-07	8.433E-07	800
122.0	2.1	416	3.590E-07	1.544E-06	800
122.0	4.2	466	4.019E-07	1.728E-06	800
122.0	6.3	437	3.769E-07	1.621E-06	800
122.0	8.4	577	4.978E-07	2.140E-06	800
122.0	10.5	469	4.045E-07	1.737E-06	800
122.0	12.6	598	4.378E-07	1.882E-06	800
122.0	14.7	418	3.603E-07	1.549E-06	800
122.0	16.8	759	6.540E-07	2.812E-06	800
122.0	21.0	605	5.214E-07	2.242E-06	800
122.0	25.2	466	4.017E-07	1.727E-06	800
122.0	29.4	583	5.028E-07	2.162E-06	800
122.0	33.6	501	4.317E-07	1.856E-06	800
122.0	37.8	291	2.512E-07	1.080E-06	800
122.0	42.0	88	7.587E-08	3.263E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	FU/O 1/SEC.M	DISTANCE METERS
130.0	1.0	6281	5.410E-06	2.326E-05	800
130.0	2.1	8380	7.218E-06	3.109E-05	800
130.0	4.2	8565	7.378E-06	3.172E-05	800
130.0	6.3	7199	6.201E-06	2.666E-05	800
130.0	8.4	7890	6.719E-06	2.889E-05	800
130.0	10.5	8825	7.602E-06	3.269E-05	800
130.0	12.6	7916	6.818E-06	2.932E-05	800
130.0	14.7	7057	6.070E-06	2.614E-05	800
130.0	16.8	7417	6.389E-06	2.747E-05	800
130.0	21.0	6887	5.932E-06	2.551E-05	800
130.0	25.2	4762	4.102E-06	1.764E-05	800
130.0	29.4	4969	4.280E-06	1.881E-05	800
130.0	33.6	3816	3.287E-06	1.410E-05	800
130.0	37.8	3162	2.728E-06	1.171E-05	800
130.0	42.0	2772	2.388E-06	1.027E-05	800

TEST #141 SEPTEMBER 1, 1960 1657 TO 1727 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 1600M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
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118.0	26	2.244E-08	6.449E-08	1600	
119.0	24	2.119E-08	9.113E-08	1600	
120.0	28	2.493E-08	1.072E-07	1600	
121.0	27	2.369E-08	1.018E-07	1600	
122.0	27	2.369E-08	1.018E-07	1600	
123.0	230	1.982E-07	8.523E-07	1600	
124.0	778	6.707E-07	2.884E-06	1600	
125.0	1636	1.410E-06	6.063E-06	1600	
126.0	3152	2.715E-06	1.168E-05	1600	
127.0	4272	3.686E-06	1.582E-05	1600	
128.0	5483	4.721E-06	2.030E-05	1600	
129.0	6117	5.269E-06	2.266E-05	1600	
130.0	6685	5.758E-06	2.476E-05	1600	
131.0	7514	6.472E-06	2.783E-05	1600	
132.0	6594	5.640E-06	2.442E-05	1600	
133.0	4217	3.633E-06	1.562E-05	1600	
134.0	2723	2.346E-06	1.009E-05	1600	
135.0	1181	1.017E-06	4.374E-06	1600	
136.0	745	6.420E-07	2.761E-06	1600	
137.0	288	2.481E-07	1.067E-06	1600	
138.0	43	3.740E-08	1.608E-07	1600	

CROSSKIND INTEGRATED= 1.246E-03 5.357E-03
 SFC/SQ.M 1/M

TOWER DATA FOLLOW.....

TEST #141 SEPTEMBER 1, 1960 1657 TO 1727 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 1600M ARC U= 4.3 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
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114.0	1.5	2.044E-09	8.797E-09	1600	
114.0	3.1	1.228E-09	5.278E-09	1600	
114.0	6.2	3.693E-09	1.583E-08	1600	
114.0	9.3	4.910E-09	2.111E-08	1600	
114.0	12.4	2.864E-09	1.232E-08	1600	
114.0	15.5	0.000E+00	0.000E+00	1600	
114.0	18.6	4.092E-09	1.759E-08	1600	
114.0	21.7	2.864E-09	1.232E-08	1600	
114.0	24.8	0.000E+00	0.000E+00	1600	
114.0	27.9	1.882E-09	8.093E-09	1600	
114.0	31.0	0.000E+00	0.000E+00	1600	

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
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122.0	1.5	3.396E-08	1.460E-07	1600	
122.0	3.1	2.373E-08	1.020E-07	1600	
122.0	6.2	2.332E-08	1.003E-07	1600	
122.0	9.3	5.033E-08	2.164E-07	1600	
122.0	12.4	4.828E-08	2.076E-07	1600	
122.0	15.5	4.951E-08	2.129E-07	1600	
122.0	18.6	6.710E-08	2.885E-07	1600	
122.0	21.7	3.437E-08	1.478E-07	1600	
122.0	24.8	5.081E-08	2.185E-07	1600	
122.0	27.9	3.199E-08	1.376E-07	1600	
122.0	31.0	3.011E-08	1.295E-07	1600	
122.0	34.1	3.990E-08	1.716E-07	1600	
122.0	37.2	2.803E-08	1.205E-07	1600	
122.0	40.3	2.148E-08	9.236E-08	1600	
122.0	43.4	2.257E-08	9.706E-08	1600	

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
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130.0	1.5	1.283E-06	5.518E-06	1600	
130.0	3.1	1.446E-06	6.220E-06	1600	
130.0	6.2	1.709E-06	7.349E-06	1600	
130.0	9.3	1.477E-07	6.352E-07	1600	
130.0	12.4	3.135E-06	1.161E-05	1600	
130.0	15.5	1.756E-06	7.551E-06	1600	
130.0	18.6	1.389E-06	5.973E-06	1600	
130.0	21.7	2.012E-06	8.653E-06	1600	
130.0	24.8	1.707E-06	7.339E-06	1600	
130.0	27.9	1.970E-06	8.471E-06	1600	
130.0	31.0	9.226E-07	3.967E-06	1600	
130.0	34.1	1.503E-06	6.464E-06	1600	
130.0	37.2	1.345E-06	4.923E-06	1600	
130.0	40.3	6.67E-07	2.473E-06	1600	
130.0	43.4	7.99E-07	2.962E-06	1600	

TEST FT41 SEPTEMBER 1, 1960 1657 TO 1727 PST
 2140 SULFIDE RELEASE FROM ELEVATION OF 2M
 3200M ARC SAMPLER HT 1.5M U= 4.3 M/SFC AT 2M

AZIMUTH DEGREES	EXPOSURE CM=SEC/CM,M X10E+6	F/R SEC/CM,M	F/R 1/SEC,M	DISTANCE METERS
Z 123.0	1A	1.609E-08	6.919E-08	3200
Z 124.0	06	4.023E-08	1.730E-07	3200
Z 125.0	112	9.454E-08	4.151E-07	3200
Z 126.0	213	1.836E-07	7.894E-07	3200
Z 127.0	955	8.228E-07	3.538E-06	3200
Z 128.0	907	8.162E-07	3.510E-06	3200
Z 129.0	1316	1.130E-06	4.875E-06	3200
Z 130.0	2004	1.727E-06	7.425E-06	3200
131.0	935	8.060E-07	3.466E-06	3200
132.0	619	5.332E-07	2.293E-06	3200
133.0	810	6.978E-07	3.000E-06	3200
134.0	428	3.694E-07	1.588E-06	3200
135.0	181	1.565E-07	6.730E-07	3200
136.0	78	6.729E-08	2.893E-07	3200
137.0	23	2.048E-08	8.806E-08	3200
138.0	7	6.583E-09	2.831E-08	3200

CROSSWIND INTEGRATED= 4.185E-08 1.800E-03
 SEC/SEC,M 1/M

TORPEDO DATA FOLLOWON....

TEST FT41 SEPTEMBER 1, 1960 1657 TO 1727 PST
 2140 SULFIDE RELEASE FROM ELEVATION OF 2M
 3200M ARC U= 4.3 M/SFC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CM=SEC/CM,M X10E+6	F/R SEC/CM,M	F/R 1/SEC,M	DISTANCE METERS
Z 122.0	1.5	2	2.401E-09	1.032E-08	3200
122.0	3.1	8	7.202E-09	3.097E-08	3200
122.0	6.2	4	3.773E-09	1.622E-08	3200
122.0	9.3	5	5.144E-09	2.212E-08	3200
122.0	12.4	13	1.200E-08	5.162E-08	3200
122.0	15.5	3	2.740E-09	1.180E-08	3200
122.0	18.6	5	4.801E-09	2.065E-08	3200
122.0	21.7	6	5.830E-09	2.507E-08	3200
122.0	24.8	0	6.411E-10	2.757E-09	3200
122.0	31.0	2	1.923E-09	8.270E-09	3200
122.0	37.2	16	1.378E-08	5.927E-08	3200
122.0	43.4	0	3.205E-10	1.379E-09	3200
122.0	49.6	12	1.092E-08	4.695E-08	3200
122.0	55.8	5	4.680E-09	2.012E-08	3200
122.0	62.0	14	1.279E-08	5.500E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CM=SEC/CM,M X10E+6	F/R SEC/CM,M	F/R 1/SEC,M	DISTANCE METERS
130.0	1.5	555	4.781E-07	2.056E-06	3200
130.0	3.1	961	8.283E-07	3.561E-06	3200
130.0	6.2	1171	1.009E-06	4.339E-06	3200
130.0	9.3	954	8.217E-07	3.533E-06	3200
130.0	12.4	1140	9.997E-07	4.299E-06	3200
130.0	15.5	1025	1.288E-06	5.539E-06	3200
130.0	18.6	1142	9.840E-07	4.231E-06	3200
130.0	21.7	1053	9.078E-07	3.904E-06	3200
130.0	24.8	1271	1.094E-06	4.711E-06	3200
130.0	31.0	1017	8.767E-07	3.770E-06	3200
130.0	37.2	1204	1.037E-06	4.460E-06	3200
130.0	43.4	1048	9.033E-07	3.884E-06	3200
130.0	49.6	962	8.289E-07	3.544E-06	3200
130.0	55.8	931	8.024E-07	3.450E-06	3200
130.0	62.0	708	8.446E-07	2.772E-06	3200

30-SERIES EXPERIMENT: 42 (FT-42)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS. MANY OF THE
FILTERS ON THE TOWERS SHOWED SIGNS OF WEATHERING.

TEST FT42 SEPTEMBER 7, 1960 0344 TO 0444 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER AT 1.5M U= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	FU/O 1/SG.M	DISTANCE METERS
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80.0	29	4.612E-04	1.482E-07	200	
82.0	22	3.474E-04	1.112E-07	200	
84.0	0	0.000E+00	0.000E+00	200	
86.0	22	3.474E-04	1.112E-07	200	
88.0	76	1.197E-07	3.829E-07	200	
90.0	22	3.435E-07	1.099E-06	200	
92.0	3090	4.906E-06	1.538E-05	200	
94.0	22301	3.468E-05	1.110E-04	200	
96.0	74202	1.154E-04	3.693E-04	200	
98.0	183354	2.852E-04	9.125E-04	200	
100.0	246363	3.031E-04	1.226E-03	200	
102.0	306847	4.772E-04	1.527E-03	200	
104.0	271688	4.228E-04	1.353E-03	200	
106.0	163615	2.545E-04	8.143E-04	200	
108.0	129713	2.017E-04	6.455E-04	200	
110.0	46041	1.090E-04	4.781E-04	200	
112.0	92045	1.432E-04	4.581E-04	200	
114.0	310410	1.717E-04	5.495E-04	200	
116.0	130495	2.029E-04	6.494E-04	200	
118.0	131964	2.052E-04	6.567E-04	200	
120.0	91271	1.419E-04	4.542E-04	200	
122.0	91830	1.428E-04	4.570E-04	200	
124.0	93919	1.461E-04	4.674E-04	200	
126.0	96225	1.497E-04	4.789E-04	200	
128.0	57044	8.878E-05	2.841E-04	200	
130.0	29873	4.644E-05	1.487E-04	200	
132.0	14656	2.279E-05	7.294E-05	200	
134.0	4023	6.257E-06	2.002E-05	200	
136.0	583	9.071E-07	2.903E-06	200	
138.0	114	1.776E-07	5.682E-07	200	

CROSSWIND INTEGRATED= 2.652E-02 8.485E-02
SEC/SG.M 1/M

TOWER DATA FOLLOW...

TEST FT42 SEPTEMBER 7, 1960 0344 TO 0444 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	FU/O 1/SG.M	DISTANCE METERS
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98.0	0.7	210624	3.276E-04	1.048E-03	200
98.0	1.4	111227	1.730E-04	5.535E-04	200
98.0	2.7	110311	1.716E-04	5.490E-04	200
98.0	4.1	105613	1.643E-04	5.257E-04	200
98.0	5.4	81299	1.264E-04	4.046E-04	200
98.0	6.8	53413	8.307E-05	2.652E-04	200
7 98.0	8.1	13790	2.145E-05	6.863E-05	200
7 98.0	9.4	16114	2.506E-05	8.020E-05	200
7 98.0	10.8	1741	2.740E-06	8.769E-06	200
98.0	13.5	4368	6.794E-06	2.174E-05	200
2 98.0	16.2	1654	2.573E-06	8.230E-06	200
98.0	18.9	683	1.063E-06	3.402E-06	200
7 98.0	21.6	268	4.174E-07	1.336E-06	200
7 98.0	24.3	85	1.332E-07	4.261E-07	200
98.0	27.0	74	1.155E-07	3.697E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	FU/O 1/SG.M	DISTANCE METERS
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106.0	0.7	265337	4.127E-04	1.320E-03	200
106.0	1.4	128276	1.995E-04	6.384E-04	200
106.0	2.7	127258	1.979E-04	6.333E-04	200
106.0	4.1	124193	1.931E-04	6.181E-04	200
106.0	5.4	135123	2.101E-04	6.725E-04	200
106.0	6.8	91917	1.430E-04	4.574E-04	200
2 106.0	8.1	70887	1.102E-04	3.528E-04	200
106.0	9.4	48981	7.618E-05	2.438E-04	200
106.0	10.8	60868	9.466E-05	3.029E-04	200
2 106.0	13.5	31291	4.867E-05	1.557E-04	200
2 106.0	16.2	9520	1.481E-05	4.738E-05	200
106.0	18.9	4453	6.927E-06	2.216E-05	200
106.0	21.6	198	3.094E-07	9.900E-07	200
7 106.0	24.3	172	2.683E-07	8.585E-07	200
106.0	27.0	93	1.449E-07	4.637E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	FU/O 1/SG.M	DISTANCE METERS
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114.0	0.7	101169	1.573E-04	5.035E-04	200
114.0	1.4	57671	8.969E-05	2.870E-04	200
114.0	2.7	65423	1.017E-04	3.256E-04	200
8 114.0	4.1	51045	7.939E-05	2.540E-04	200
114.0	5.4	48366	7.522E-05	2.407E-04	200
2 114.0	6.8	23205	3.609E-05	1.155E-04	200
114.0	8.1	37508	5.833E-05	1.867E-04	200
114.0	9.4	33211	5.165E-05	1.653E-04	200
114.0	10.8	27447	4.269E-05	1.366E-04	200
114.0	13.5	10088	1.569E-05	5.021E-05	200
114.0	16.2	4696	7.305E-06	2.337E-05	200
7 114.0	18.9	2270	3.531E-06	1.130E-05	200
2 114.0	21.6	841	1.309E-06	4.188E-06	200
2 114.0	24.3	312	4.857E-07	1.554E-06	200
2 114.0	27.0	154	2.409E-07	7.708E-07	200

AZIMUTH	HEIGHT	EXPOSURE	E/O	FU/O	DISTANCE	AZIMUTH	HEIGHT	EXPOSURE	E/O	FU/O	DISTANCE
DEGREES	METERS	GM-SEC/CU,M	SEC/CU,M	1/SG,M	METERS	DEGREES	METERS	GM-SEC/CU,M	SEC/CU,M	1/SG,M	METERS
		X10E+6						X10E+6			
130.0	0.7	12959	5.126E-05	1.640E-04	200	106.0	1.0	14354	2.232E-05	7.144E-05	800
130.0	1.4	17906	2.785E-05	8.912E-05	200	106.0	2.1	12993	2.021E-05	6.466E-05	800
130.0	2.7	17696	2.752E-05	8.807E-05	200	106.0	4.2	13297	2.064E-05	6.618E-05	800
130.0	4.1	15480	2.407E-05	7.704E-05	200	106.0	6.3	14412	2.241E-05	7.172E-05	800
130.0	5.4	18887	2.937E-05	9.399E-05	200	106.0	8.4	14709	2.288E-05	7.321E-05	800
130.0	6.8	14305	2.225E-05	7.119E-05	200	106.0	10.5	14059	2.187E-05	6.997E-05	800
130.0	8.1	7887	1.227E-05	3.925E-05	200	106.0	12.6	13193	2.052E-05	6.566E-05	800
130.0	9.4	9439	1.468E-05	4.698E-05	200	106.0	14.7	11386	1.771E-05	5.667E-05	800
130.0	10.8	7830	1.218E-05	3.897E-05	200	106.0	16.8	7484	1.164E-05	3.725E-05	800
130.0	13.9	3504	5.451E-06	1.744E-05	200	106.0	21.0	4474	6.959E-06	2.227E-05	800
130.0	16.2	47	7.366E-06	2.357E-07	200	106.0	25.2	1962	3.052E-06	9.765E-06	800
130.0	18.9	405	6.310E-07	2.019E-06	200	106.0	29.4	389	6.062E-07	1.940E-06	800
130.0	21.6	53	8.346E-08	2.671E-07	200	106.0	33.6	198	3.087E-07	9.881E-07	800
130.0	24.3	5	7.833E-09	2.507E-08	200	106.0	37.8	59	9.282E-08	2.970E-07	800
130.0	27.0	0	0.000E+00	0.000E+00	200	106.0	42.0	15	2.463E-08	7.880E-08	800

TEST FT42 SEPTEMBER 7, 1960 0344 TO 0404 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM AND SAMPLER HT 1.5M U= 3.2 M/SEC AT 2M

AZIMUTH	EXPOSURE	E/O	FU/O	DISTANCE
DEGREES	GM-SEC/CU,M	SEC/CU,M	1/SG,M	METERS
	X10E+6			
90.0	7	1.120E-08	3.585E-08	800
92.0	292	0.555E-07	1.455E-06	800
94.0	2929	0.588E-06	1.455E-05	800
96.0	16508	2.567E-05	8.216E-05	800
98.0	20268	3.152E-05	1.009E-04	800
100.0	25041	3.894E-05	1.246E-04	800
102.0	25639	3.987E-05	1.276E-04	800
104.0	26683	4.150E-05	1.328E-04	800
106.0	16549	2.574E-05	8.236E-05	800
108.0	6905	1.070E-05	3.438E-05	800
110.0	9747	1.516E-05	4.851E-05	800
112.0	11061	1.720E-05	5.505E-05	800
114.0	14856	2.311E-05	7.394E-05	800
116.0	10621	1.652E-05	5.286E-05	800
9 118.0	2422	3.782E-06	1.206E-05	800
120.0	3829	5.956E-06	1.906E-05	800
122.0	7399	1.151E-05	3.683E-05	800
124.0	11135	1.732E-05	5.542E-05	800
126.0	9051	1.488E-05	4.505E-05	800
128.0	6745	1.052E-05	3.367E-05	800
130.0	2705	4.208E-06	1.307E-05	800
132.0	662	1.031E-06	3.298E-06	800
134.0	124	1.942E-07	6.213E-07	800

CROSSHAIR INTEGRATED= 1.064E-02 SEC/SG,M 3.213E-02 1/M

TOOK DATA FOLLOWING...

TEST FT42 SEPTEMBER 7, 1960 0344 TO 0404 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM AND SAMPLER HT 1.5M U= 3.2 M/SEC AT 2M

AZIMUTH	HEIGHT	EXPOSURE	E/O	FU/O	DISTANCE	AZIMUTH	HEIGHT	EXPOSURE	E/O	FU/O	DISTANCE
DEGREES	METERS	GM-SEC/CU,M	SEC/CU,M	1/SG,M	METERS	DEGREES	METERS	GM-SEC/CU,M	SEC/CU,M	1/SG,M	METERS
		X10E+6						X10E+6			
98.0	1.0	11793	1.834E-05	5.869E-05	800	130.0	1.0	2229	3.461E-06	1.107E-05	800
98.0	2.1	15398	2.395E-05	7.863E-05	800	130.0	2.1	1915	2.978E-06	9.531E-06	800
98.0	4.2	16707	2.598E-05	8.315E-05	800	130.0	4.2	1363	2.180E-06	6.734E-06	800
98.0	6.3	13266	2.063E-05	6.407E-05	800	130.0	6.3	1852	2.881E-06	9.219E-06	800
98.0	8.4	12506	1.945E-05	6.224E-05	800	130.0	8.4	1899	2.955E-06	9.455E-06	800
98.0	10.5	9189	1.420E-05	4.573E-05	800	130.0	10.5	1779	2.767E-06	8.854E-06	800
98.0	12.6	7957	1.098E-05	3.512E-05	800	130.0	12.6	1826	2.941E-06	9.090E-06	800
98.0	14.7	3294	5.123E-06	1.639E-05	800	130.0	14.7	1360	2.114E-06	6.772E-06	800
98.0	16.8	1721	2.677E-06	8.566E-06	800	130.0	16.8	1317	2.050E-06	6.559E-06	800
98.0	21.0	581	9.049E-07	2.896E-06	800	130.0	21.0	954	1.484E-06	4.750E-06	800
98.0	25.2	88	1.383E-07	4.425E-07	800	130.0	25.2	174	2.709E-07	8.668E-07	800
98.0	29.4	31	4.925E-08	1.576E-07	800	130.0	29.4	166	2.595E-07	8.305E-07	800
7 98.0	33.6	1	1.894E-09	6.062E-09	800	130.0	33.6	64	1.004E-07	3.213E-07	800
98.0	37.8	0	0.000E+00	0.000E+00	800	130.0	37.8	26	4.167E-08	1.334E-07	800
98.0	42.0	0	0.000E+00	0.000E+00	800	130.0	42.0	0	0.000E+00	0.000E+00	800

TEST F142 SEPTEMBER 7, 1960 0344 TO 0444 PST
71°C SULFIDE RELEASE FROM ELEVATION OF 2M
1600X ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
90.0	71	1.111E-07	3.550E-07	1600	
91.0	144	2.250E-07	7.199E-07	1600	
92.0	355	5.520E-07	1.768E-06	1600	
93.0	396	6.009E-07	1.923E-06	1600	
94.0	635	9.841E-07	3.162E-06	1600	
95.0	1584	2.153E-06	6.809E-06	1600	
96.0	3066	4.770E-06	1.526E-05	1600	
97.0	3733	5.806E-06	1.858E-05	1600	
98.0	6077	9.451E-06	3.024E-05	1600	
99.0	5652	8.791E-06	2.813E-05	1600	
100.0	6974	1.085E-05	3.471E-05	1600	
101.0	6888	1.071E-05	3.428E-05	1600	
102.0	7711	1.230E-05	3.937E-05	1600	
103.0	8624	1.341E-05	4.292E-05	1600	
104.0	6518	1.014E-05	3.244E-05	1600	
105.0	5626	8.751E-06	2.800E-05	1600	
106.0	3623	5.635E-06	1.803E-05	1600	
107.0	3310	5.149E-06	1.648E-05	1600	
108.0	3348	5.208E-06	1.667E-05	1600	
109.0	4030	6.268E-06	2.006E-05	1600	
110.0	3037	4.724E-06	1.512E-05	1600	
111.0	3836	5.466E-06	1.909E-05	1600	
112.0	3447	5.704E-06	1.825E-05	1600	
113.0	3517	5.470E-06	1.751E-05	1600	
114.0	3462	5.385E-06	1.723E-05	1600	
115.0	2755	4.286E-06	1.371E-05	1600	
116.0	2457	3.822E-06	1.223E-05	1600	
117.0	1940	3.019E-06	9.659E-06	1600	
118.0	1202	1.871E-06	5.987E-06	1600	
119.0	1376	2.141E-06	6.853E-06	1600	
120.0	1358	2.113E-06	6.761E-06	1600	
121.0	1527	2.375E-06	7.600E-06	1600	
122.0	1582	2.460E-06	7.873E-06	1600	
123.0	1305	2.030E-06	6.497E-06	1600	
124.0	1151	1.791E-06	5.732E-06	1600	
125.0	1442	2.244E-06	7.181E-06	1600	
126.0	2878	4.477E-06	1.432E-05	1600	
127.0	3574	5.559E-06	1.779E-05	1600	
128.0	4786	7.404E-06	2.382E-05	1600	
129.0	2631	4.092E-06	1.309E-05	1600	
130.0	1644	2.557E-06	8.183E-06	1600	
131.0	693	1.079E-06	3.454E-06	1600	
132.0	245	3.416E-07	1.221E-06	1600	
133.0	137	2.136E-07	6.834E-07	1600	
134.0	16	2.563E-08	8.201E-08	1600	

CROSSHAIR INTEGRATED= 5.672E-03 1.815E-02
SEC/SG.M 1/M

TOWER DATA FOLLOWING....

TEST F142 SEPTEMBER 7, 1960 0344 TO 0444 PST
71°C SULFIDE RELEASE FROM ELEVATION OF 2M
1600X ARC U= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
93.0	1.5	4509	7.014E-06	2.244E-05	1600
94.0	3.1	4364	6.787E-06	2.172E-05	1600
95.0	6.2	3378	5.254E-06	1.681E-05	1600
96.0	9.3	3873	6.023E-06	1.927E-05	1600
97.0	12.4	2944	4.580E-06	1.465E-05	1600
98.0	15.5	1714	2.667E-06	8.534E-06	1600
99.0	18.6	805	1.252E-06	4.006E-06	1600
Z 99.0	21.7	390	6.066E-07	1.941E-06	1600
99.0	24.8	199	3.102E-07	9.925E-07	1600
99.0	31.0	29	4.637E-08	1.484E-07	1600
99.0	37.2	0	0.000E+00	0.000E+00	1600
99.0	43.4	4	6.395E-09	2.046E-08	1600
99.0	49.6	0	1.406E-09	4.500E-09	1600
S 99.0	55.8	0	1.406E-09	4.500E-09	1600
99.0	62.0	0	0.000E+00	0.000E+00	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
106.0	1.5	3279	5.101E-06	1.632E-05	1600
106.0	3.1	3921	6.099E-06	1.952E-05	1600
106.0	6.2	4364	6.787E-06	2.172E-05	1600
106.0	9.3	3956	6.153E-06	1.969E-05	1600
106.0	12.4	4352	6.770E-06	2.166E-05	1600
106.0	15.5	4213	6.552E-06	2.097E-05	1600
106.0	18.6	4195	6.525E-06	2.088E-05	1600
106.0	21.7	2864	4.456E-06	1.426E-05	1600
106.0	24.8	1840	2.862E-06	9.158E-06	1600
106.0	31.0	471	7.339E-07	2.348E-06	1600
106.0	37.2	185	2.878E-07	9.209E-07	1600
106.0	43.4	34	5.436E-08	1.740E-07	1600
S 106.0	49.6	0	0.000E+00	0.000E+00	1600
106.0	55.8	0	0.000E+00	0.000E+00	1600
106.0	62.0	0	0.000E+00	0.000E+00	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
114.0	1.5	3226	5.018E-06	1.606E-05	1600
114.0	3.1	2514	3.911E-06	1.257E-05	1600
114.0	6.2	3926	6.107E-06	1.954E-05	1600
114.0	9.3	2994	4.657E-06	1.490E-05	1600
114.0	12.4	3086	4.801E-06	1.536E-05	1600
114.0	15.5	2432	3.783E-06	1.211E-05	1600
114.0	18.6	1701	2.645E-06	8.465E-06	1600
114.0	21.7	1332	2.072E-06	6.639E-06	1600
114.0	24.8	653	1.017E-06	3.254E-06	1600
114.0	31.0	218	3.405E-07	1.090E-06	1600
114.0	37.2	88	1.375E-07	4.400E-07	1600
114.0	43.4	50	7.834E-08	2.507E-07	1600
Z 114.0	49.6	8	1.266E-08	4.050E-08	1600
114.0	55.8	2	4.219E-09	1.350E-08	1600
114.0	62.0	0	0.000E+00	0.000E+00	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
122.0	1.5	1196	1.861E-06	5.954E-06	1600
122.0	3.1	1236	1.923E-06	6.152E-06	1600
122.0	6.2	1145	1.781E-06	5.699E-06	1600
122.0	9.3	1273	1.981E-06	6.338E-06	1600
122.0	12.4	904	1.407E-06	4.502E-06	1600
122.0	15.5	1212	1.886E-06	6.034E-06	1600
122.0	18.6	949	1.477E-06	4.726E-06	1600
122.0	21.7	524	8.159E-07	2.611E-06	1600
122.0	24.8	386	6.012E-07	1.924E-06	1600
122.0	31.0	136	2.126E-07	6.805E-07	1600
122.0	37.2	76	1.183E-07	3.786E-07	1600
122.0	43.4	37	5.756E-08	1.842E-07	1600
122.0	49.6	1	2.813E-09	9.001E-09	1600
122.0	55.8	9	1.406E-08	4.500E-08	1600
122.0	62.0	0	0.000E+00	0.000E+00	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
130.0	1.5	942	1.465E-06	4.688E-06	1600
130.0	3.1	1256	1.950E-06	6.251E-06	1600
130.0	6.2	1293	2.012E-06	6.437E-06	1600
Z 130.0	9.3	325	5.058E-07	1.619E-06	1600
130.0	12.4	1582	2.461E-06	7.874E-06	1600
130.0	15.5	924	1.438E-06	4.602E-06	1600
130.0	18.6	1136	1.767E-06	5.456E-06	1600
Z 130.0	21.7	746	1.238E-06	3.963E-06	1600
Z 130.0	24.8	613	9.505E-07	3.054E-06	1600
130.0	31.0	244	3.885E-07	1.218E-06	1600
130.0	37.2	58	9.113E-08	2.916E-07	1600
130.0	43.4	10	1.599E-08	5.116E-08	1600
Z 130.0	49.6	2	4.219E-09	1.350E-08	1600
Z 130.0	55.8	0	1.406E-09	4.500E-09	1600
Z 130.0	62.0	1	2.813E-09	9.001E-09	1600

TEST FT42 SEPTEMBER 7, 1960 0304 TO 0404 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M W= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	FU/D 1/SQ.M	DISTANCE METERS
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86.0	125	1.946E-07	6.226E-07	3200
87.0	72	1.124E-07	3.597E-07	3200
88.0	34	5.333E-08	1.706E-07	3200
89.0	12	1.874E-08	5.996E-08	3200
90.0	14	2.306E-08	7.379E-08	3200
91.0	482	7.509E-07	2.403E-06	3200
92.0	425	6.615E-07	2.117E-06	3200
93.0	339	5.275E-07	1.688E-06	3200
94.0	243	3.791E-07	1.213E-06	3200
95.0	151	2.364E-07	7.564E-07	3200
96.0	1578	2.454E-06	7.854E-06	3200
97.0	1505	2.341E-06	7.490E-06	3200
98.0	1027	1.598E-06	5.115E-06	3200
99.0	722	1.124E-06	3.597E-06	3200
100.0	524	8.158E-07	2.610E-06	3200
101.0	1162	1.807E-06	5.784E-06	3200
102.0	1668	2.594E-06	8.302E-06	3200
103.0	1816	2.825E-06	9.000E-06	3200
104.0	2467	3.838E-06	1.228E-05	3200
105.0	1635	2.544E-06	8.140E-06	3200
106.0	771	1.201E-06	3.842E-06	3200
107.0	630	9.801E-07	3.136E-06	3200
108.0	757	1.178E-06	3.768E-06	3200
109.0	1032	1.606E-06	5.138E-06	3200
110.0	808	1.257E-06	4.022E-06	3200
111.0	669	1.041E-06	3.330E-06	3200
112.0	638	9.930E-07	3.178E-06	3200
113.0	693	1.078E-06	3.450E-06	3200
114.0	607	9.440E-07	3.021E-06	3200
115.0	463	7.206E-07	2.306E-06	3200
116.0	531	8.259E-07	2.643E-06	3200
117.0	524	8.158E-07	2.610E-06	3200
118.0	401	6.241E-07	1.997E-06	3200
119.0	526	8.186E-07	2.626E-06	3200
120.0	363	5.650E-07	1.808E-06	3200
121.0	459	7.149E-07	2.288E-06	3200
122.0	301	4.684E-07	1.499E-06	3200
123.0	267	4.165E-07	1.333E-06	3200
124.0	294	4.583E-07	1.467E-06	3200
125.0	242	3.776E-07	1.208E-06	3200
126.0	188	2.926E-07	9.363E-07	3200
127.0	214	3.329E-07	1.065E-06	3200
128.0	404	6.298E-07	2.015E-06	3200
129.0	1035	1.610E-06	5.152E-06	3200
130.0	1102	1.715E-06	5.488E-06	3200
131.0	616	9.585E-07	3.067E-06	3200
132.0	189	2.955E-07	9.455E-07	3200
133.0	68	1.067E-07	3.413E-07	3200
134.0	36	5.621E-08	1.799E-07	3200
135.0	4	7.206E-09	2.306E-08	3200
136.0	8	1.297E-08	4.151E-08	3200

CROSSHAIR INTEGRATED= 2.641E-03 8.578E-03
SEC/CM² 1/M

TOWER DATA FOLLOWING...

TEST FT42 SEPTEMBER 7, 1960 0304 TO 0404 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC W= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	FU/D 1/SQ.M	DISTANCE METERS
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98.0	1.5	1113	1.732E-06	5.543E-06	3200
98.0	3.1	1051	1.635E-06	5.232E-06	3200
98.0	6.2	1132	1.761E-06	5.636E-06	3200
98.0	9.3	1112	1.730E-06	5.536E-06	3200
S 98.0	12.4	751	1.169E-06	3.740E-06	3200
98.0	15.5	671	1.044E-06	3.341E-06	3200
S 98.0	18.6	495	7.700E-07	2.464E-06	3200
98.0	21.7	298	4.649E-07	1.488E-06	3200
Z 98.0	24.8	86	1.340E-07	4.289E-07	3200
98.0	31.0	34	5.425E-08	1.736E-07	3200
Z 98.0	37.2	6	1.064E-08	3.404E-08	3200
Z 98.0	43.4	5	8.509E-09	2.723E-08	3200
Z 98.0	49.6	0	0.000E+00	0.000E+00	3200
Z 98.0	55.8	0	0.000E+00	0.000E+00	3200
Z 98.0	62.0	0	0.000E+00	0.000E+00	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	FU/D 1/SQ.M	DISTANCE METERS
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106.0	1.5	1036	1.612E-06	5.159E-06	3200
106.0	3.1	1053	1.639E-06	5.244E-06	3200
106.0	6.2	1215	1.891E-06	6.051E-06	3200
106.0	9.3	1009	1.570E-06	5.024E-06	3200
106.0	12.4	1121	1.744E-06	5.582E-06	3200
106.0	15.5	1267	1.971E-06	6.308E-06	3200
106.0	18.6	1296	2.016E-06	6.451E-06	3200
106.0	21.7	1142	1.777E-06	5.686E-06	3200
106.0	24.8	1058	1.645E-06	5.266E-06	3200
106.0	31.0	868	1.351E-06	4.323E-06	3200
Z 106.0	37.2	527	4.211E-07	2.628E-06	3200
106.0	43.4	259	4.042E-07	1.293E-06	3200
106.0	49.6	93	1.452E-07	4.645E-07	3200
106.0	55.8	24	3.825E-08	1.224E-07	3200
106.0	62.0	3	5.885E-09	1.883E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	FU/D 1/SQ.M	DISTANCE METERS
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114.0	1.5	599	7.166E-07	2.933E-06	3200
114.0	3.1	590	9.190E-07	2.941E-06	3200
114.0	6.2	472	7.352E-07	2.353E-06	3200
114.0	9.3	733	1.141E-06	3.652E-06	3200
114.0	12.4	639	9.947E-07	3.183E-06	3200
Z 114.0	15.5	412	6.415E-07	2.053E-06	3200
114.0	18.6	489	7.592E-07	2.430E-06	3200
Z 114.0	21.7	388	6.043E-07	1.934E-06	3200
114.0	24.8	270	4.212E-07	1.348E-06	3200
114.0	31.0	259	4.042E-07	1.293E-06	3200
114.0	37.2	69	1.074E-07	3.438E-07	3200
Z 114.0	43.4	53	8.246E-08	2.655E-07	3200
114.0	49.6	15	2.452E-08	7.846E-08	3200
F 114.0	55.8	11	1.863E-08	5.963E-08	3200
114.0	62.0	8	1.373E-08	4.394E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM*SEC/CU,M X10E+6	E/O SEC/CU,M	E/O 1/SQ,M	DISTANCE METERS
122.0	1.5	248	3.868E-07	1.238E-06	3200
122.0	3.1	411	6.403E-07	2.049E-06	3200
122.0	6.2	278	4.325E-07	1.384E-06	3200
122.0	9.3	409	6.992E-07	2.237E-06	3200
122.0	12.4	370	5.766E-07	1.845E-06	3200
122.0	15.5	428	6.667E-07	2.134E-06	3200
122.0	18.6	321	4.998E-07	1.599E-06	3200
122.0	21.7	234	3.640E-07	1.165E-06	3200
122.0	24.8	131	2.053E-07	6.569E-07	3200
122.0	31.0	41	6.488E-08	2.076E-07	3200
Z 122.0	37.2	17	2.659E-08	8.509E-08	3200
122.0	43.4	2	4.255E-09	1.361E-08	3200
122.0	49.6	13	2.158E-08	6.905E-08	3200
Z 122.0	55.8	1	2.942E-09	9.415E-09	3200
S 122.0	62.0	6	9.808E-09	3.138E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM*SEC/CU,M X10E+6	E/O SEC/CU,M	E/O 1/SQ,M	DISTANCE METERS
130.0	1.5	1165	1.813E-06	5.801E-06	3200
130.0	3.1	1263	1.965E-06	6.289E-06	3200
130.0	6.2	1299	2.021E-06	6.466E-06	3200
130.0	9.3	1793	2.649E-06	8.477E-06	3200
130.0	12.4	979	1.522E-06	4.871E-06	3200
130.0	15.5	1333	2.073E-06	6.635E-06	3200
130.0	18.6	1148	1.786E-06	5.716E-06	3200
130.0	21.7	1038	1.616E-06	5.170E-06	3200
130.0	24.8	440	6.850E-07	2.192E-06	3200
130.0	31.0	238	3.702E-07	1.184E-06	3200
S 130.0	37.2	104	1.627E-07	5.208E-07	3200
130.0	43.4	13	2.127E-08	6.807E-08	3200
Z 130.0	49.6	7	1.177E-08	3.766E-08	3200
S 130.0	55.8	0	0.000E+00	0.000E+00	3200
130.0	62.0	1	1.962E-09	6.277E-09	3200

30-SERIES EXPERIMENT: 43 (FT-43)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS

TEST F143 SEPTEMBER 13, 1960 0522 TO 0552 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200X ARC SAMPLES AT 1.5' W 2.3 M/SEC AT 2X

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	F/D 1/SG.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	F/D 1/SG.M	DISTANCE METERS
88.0	0.7	5.202E-08	1.197E-07	200		106.0	0.7	87	3.092E-07	7.111E-07	200
90.0	1.4	2.881E-08	4.786E-08	200		106.0	1.4	20	7.355E-08	1.692E-07	200
92.0	2.7	4.890E-07	1.125E-06	200		106.0	2.7	64	2.280E-07	5.244E-07	200
94.0	4.1	5.202E-08	1.197E-07	200		106.0	4.1	24	8.827E-08	2.030E-07	200
96.0	5.4	0.000E+00	0.000E+00	200		106.0	5.4	64	2.280E-07	5.244E-07	200
98.0	6.8	1.561E-07	3.590E-07	200		106.0	6.8	176	6.252E-07	1.438E-06	200
100.0	8.1	1.249E-07	2.872E-07	200		106.0	8.1	74	2.644E-07	6.090E-07	200
102.0	9.4	1.105E-07	2.632E-07	200		106.0	9.4	22	8.091E-08	1.861E-07	200
104.0	10.8	2.165E-07	5.026E-07	200		106.0	10.8	31	1.103E-07	2.538E-07	200
106.0	13.5	2.041E-07	4.786E-07	200		106.0	13.5	20	8.827E-08	2.030E-07	200
108.0	16.2	0.000E+00	0.000E+00	200		106.0	16.2	33	1.177E-07	2.707E-07	200
110.0	18.9	1.249E-07	2.872E-07	200		106.0	18.9	27	9.562E-08	2.199E-07	200
112.0	21.6	2.894E-06	6.653E-06	200		106.0	21.6	89	3.163E-07	7.275E-07	200
114.0	24.3	1.954E-05	4.494E-05	200		106.0	24.3	24	8.881E-08	1.974E-07	200
116.0	27.0	6.796E-05	1.561E-04	200		106.0	27.0	19	6.865E-08	1.579E-07	200
118.0	30.7	1.172E-04	2.695E-04	200							
120.0	34.5	1.207E-04	2.984E-04	200							
122.0	38.3	1.031E-04	2.371E-04	200							
124.0	42.1	1.160E-04	2.668E-04	200							
126.0	45.9	1.817E-04	4.180E-04	200							
128.0	49.7	3.605E-04	8.292E-04	200							
130.0	53.5	4.561E-04	1.049E-03	200							
132.0	57.3	6.281E-04	1.445E-03	200							
134.0	61.1	8.563E-04	1.910E-03	200							
136.0	64.9	5.601E-04	1.297E-03	200							
138.0	68.7	2.652E-04	6.100E-04	200							
140.0	72.5	8.104E-05	1.864E-04	200							
142.0	76.3	1.739E-05	3.999E-05	200							
144.0	80.1	2.112E-06	8.858E-06	200							
146.0	83.9	4.162E-08	9.573E-08	200							
148.0	87.7	3.121E-08	7.179E-08	200							

CROSS-IND INTEGRATED = 2.632E-02 SEC/SG.M
1/M

TOWER DATA F143

TEST F143 SEPTEMBER 13, 1960 0522 TO 0552 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200X ARC SAMPLES AT 1.5' W 2.3 M/SEC AT 2X

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	F/D 1/SG.M	DISTANCE METERS
90.0	0.7	124	4.000E-07	1.012E-06	200
98.0	1.4	45	1.818E-07	3.722E-07	200
98.0	2.7	2	7.355E-09	1.692E-08	200
98.0	4.1	93	3.311E-07	7.613E-07	200
98.0	5.4	24	8.827E-08	2.030E-07	200
98.0	6.8	12	4.413E-08	1.015E-07	200
98.0	8.1	4	1.471E-08	3.384E-08	200
98.0	9.4	31	1.103E-07	2.538E-07	200
98.0	10.8	20	7.355E-08	1.692E-07	200
98.0	13.5	12	8.813E-08	1.015E-07	200
98.0	16.2	14	5.149E-08	1.184E-07	200
98.0	19.0	18	6.820E-08	1.523E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	F/D 1/SG.M	DISTANCE METERS
122.0	0.7	41453	1.465E-04	3.369E-04	200
122.0	1.4	23873	8.436E-05	1.940E-04	200
122.0	2.7	19123	6.757E-05	1.554E-04	200
122.0	4.1	17375	6.140E-05	1.412E-04	200
122.0	5.4	15524	5.486E-05	1.262E-04	200
122.0	6.8	11584	4.095E-05	9.418E-05	200
122.0	8.1	12021	4.248E-05	9.779E-05	200
122.0	9.4	8473	3.136E-05	7.212E-05	200
122.0	10.8	7649	2.717E-05	6.249E-05	200
122.0	13.5	2509	9.018E-06	2.072E-05	200
122.0	16.2	832	2.942E-06	6.767E-06	200
122.0	18.9	74	2.648E-07	6.090E-07	200
122.0	21.6	12	4.413E-08	1.015E-07	200
122.0	24.3	0	0.000E+00	0.000E+00	200
122.0	27.0	0	0.000E+00	0.000E+00	200

AZIMUTH	HEIGHT	EXPOSURE	F/D	FU/D	DISTANCE	AZIMUTH	HEIGHT	EXPOSURE	F/D	FU/D	DISTANCE
DEGREES	METERS	GM-SEC/CM	SEC/CM	1/SEC	METERS	DEGREES	METERS	GM-SEC/CM	SEC/CM	1/SEC	METERS
		X10E+6						X10E+6			
130.0	4.7	141284	3.992E-04	1.149E-03	200	106.0	1.0	6	2.135E-08	4.909E-08	800
130.0	1.2	94817	3.210E-04	7.383E-04	200	106.0	2.1	0	0.000E+00	0.000E+00	800
130.0	2.7	27427	3.100E-04	7.151E-04	200	106.0	4.2	2	7.115E-09	1.636E-08	800
130.0	4.1	65651	2.320E-04	5.336E-04	200	106.0	6.3	10	3.556E-08	8.182E-08	800
130.0	5.4	75512	2.466E-04	6.137E-04	200	106.0	8.4	18	6.404E-08	1.473E-07	800
130.0	6.5	64265	2.271E-04	5.223E-04	200	106.0	10.5	14	4.981E-08	1.196E-07	800
130.0	8.1	50827	1.798E-04	4.137E-04	200	106.0	12.6	18	6.404E-08	1.473E-07	800
130.0	9.9	41224	1.959E-04	3.356E-04	200	106.0	14.7	36	1.281E-07	2.946E-07	800
130.0	10.8	34323	1.211E-04	2.799E-04	200	106.0	16.8	10	3.556E-08	8.182E-08	800
130.0	13.5	16427	5.405E-05	1.335E-04	200	106.0	21.0	30	1.067E-07	2.455E-07	800
130.0	16.2	4533	1.743E-05	4.009E-05	200	106.0	25.2	6	2.214E-08	5.091E-08	800
130.0	18.0	1330	4.700E-06	1.081E-05	200	106.0	29.4	9	3.320E-08	7.637E-08	800
130.0	21.6	193	6.841E-07	1.573E-06	200	106.0	33.6	1	5.534E-09	1.273E-08	800
130.0	24.3	A	2.288E-08	5.263E-08	200	106.0	37.8	3	1.107E-08	2.546E-08	800
130.0	27.9	A	2.860E-09	6.579E-08	200	106.0	42.0	10	3.674E-08	8.909E-08	800

TEST F103 SEPTEMBER 13, 1960 0522 TO 0552 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 800' AND SAMPLED AT 1.5 1.6 2.3 1/SEC AT 2M

AZIMUTH	HEIGHT	EXPOSURE	F/D	FU/D	DISTANCE
DEGREES	METERS	GM-SEC/CM	SEC/CM	1/SEC	METERS
		X10E+6			
110.0	0	0.000E+00	0.000E+00	800	
112.0	0	0.000E+00	0.000E+00	800	
114.0	0	0.000E+00	0.000E+00	800	
116.0	236	2.354E-07	1.921E-06	800	
118.0	159	5.636E-07	1.256E-06	800	
120.0	5084	1.797E-05	4.132E-05	800	
122.0	4093	1.743E-05	4.058E-05	800	
124.0	4283	1.914E-05	3.487E-05	800	
126.0	5485	1.939E-05	4.459E-05	800	
128.0	8250	2.917E-05	6.704E-05	800	
130.0	15633	5.528E-05	1.271E-04	800	
C 132.0	236	2.354E-07	1.921E-06	800	
C 134.0	444	1.570E-06	3.611E-06	800	
C 136.0	264	9.360E-07	2.153E-06	800	
C 138.0	116	4.127E-07	9.491E-07	800	
C 140.0	42	1.510E-07	3.472E-07	800	
142.0	1324	4.640E-06	1.076E-05	800	
144.0	17	6.039E-08	1.389E-07	800	
146.0	A	3.019E-08	6.945E-08	800	

CROSS-SECTION INTEGRATE= 4.564E-03 1.058E-02
 SEC/SEC 1/M

TOWER DATA FOLLOWING...

TEST F103 SEPTEMBER 13, 1960 0522 TO 0552 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 800' AND SAMPLED AT 1.5 1.6 2.3 1/SEC AT 2M

AZIMUTH	HEIGHT	EXPOSURE	F/D	FU/D	DISTANCE
DEGREES	METERS	GM-SEC/CM	SEC/CM	1/SEC	METERS
		X10E+6			
91.0	1.0	4	1.423E-08	3.273E-08	800
93.0	2.1	4	1.423E-08	3.273E-08	800
93.0	4.2	12	1.138E-07	2.618E-07	800
93.0	6.3	6	2.135E-08	4.909E-08	800
93.0	8.4	4	1.423E-08	3.273E-08	800
93.0	10.5	18	1.352E-07	3.109E-07	800
93.0	12.6	20	7.115E-08	1.636E-07	800
93.0	14.7	22	7.827E-08	1.800E-07	800
93.0	16.8	6	2.135E-08	4.909E-08	800
93.0	21.0	8	2.846E-08	6.546E-08	800
93.0	25.2	3	1.107E-08	2.546E-08	800
93.0	29.4	4	1.660E-08	3.818E-08	800
93.0	33.6	1	5.534E-09	1.273E-08	800
93.0	37.8	14	4.980E-08	1.145E-07	800
93.0	42.0	3	1.107E-08	2.546E-08	800

AZIMUTH	HEIGHT	EXPOSURE	F/D	FU/D	DISTANCE
DEGREES	METERS	GM-SEC/CM	SEC/CM	1/SEC	METERS
		X10E+6			
114.0	1.0	38	1.352E-07	3.109E-07	800
114.0	2.1	2	7.115E-09	1.636E-08	800

AZIMUTH	HEIGHT	EXPOSURE	F/D	FU/D	DISTANCE
DEGREES	METERS	GM-SEC/CM	SEC/CM	1/SEC	METERS
		X10E+6			
122.0	1.0	2680	4.470E-06	2.178E-05	800
F 122.0	2.1	3114	1.101E-05	2.532E-05	800
122.0	4.2	1991	7.037E-06	1.618E-05	800
122.0	6.3	2619	9.257E-06	2.129E-05	800
122.0	8.4	2019	7.136E-06	1.641E-05	800
122.0	10.5	1586	5.607E-06	1.290E-05	800
122.0	12.6	1949	4.887E-06	1.584E-05	800
122.0	14.7	1538	5.036E-06	1.250E-05	800
122.0	16.8	1234	4.362E-06	1.003E-05	800
122.0	21.0	376	1.339E-06	3.077E-06	800
122.0	25.2	3	1.107E-08	2.546E-08	800
122.0	29.4	10	3.674E-08	8.909E-08	800
122.0	33.6	7	2.767E-08	6.364E-08	800
122.0	37.8	29	1.051E-07	2.418E-07	800
122.0	42.0	7	2.767E-08	6.364E-08	800

TEST #143 SEPTEMBER 13, 1960 0522 TO 0552 PST
 71°C SULFUR RELEASE FROM ELEVATION OF 2M
 1600X ALC SAMPLE HT 1.5M U= 2.3 X/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/G 1/SG ²	DISTANCE METERS
119.0	0.0	40	1.448E-07	3.331E-07	1600
120.0	1.92	6.007E-07	1.566E-06	1600	
121.0	6.46	2.426E-06	5.579E-06	1600	
122.0	13.92	4.743E-06	1.091E-05	1600	
123.0	16.74	5.916E-06	1.361E-05	1600	
124.0	17.86	6.314E-06	1.452E-05	1600	
125.0	15.74	5.387E-06	1.239E-05	1600	
126.0	15.67	5.539E-06	1.274E-05	1600	
127.0	26.94	9.522E-06	2.190E-05	1600	
128.0	53.54	1.892E-05	4.352E-05	1600	
129.0	59.32	2.006E-05	4.821E-05	1600	
130.0	61.86	2.186E-05	5.028E-05	1600	
131.0	54.05	1.910E-05	4.393E-05	1600	
132.0	52.39	1.842E-05	4.259E-05	1600	
133.0	55.67	1.967E-05	4.525E-05	1600	
134.0	49.22	1.739E-05	4.000E-05	1600	
135.0	55.75	1.970E-05	4.532E-05	1600	
136.0	57.46	2.030E-05	4.670E-05	1600	
137.0	47.00	1.661E-05	3.821E-05	1600	
138.0	34.73	1.227E-05	2.823E-05	1600	

CROSS-SECTION INTEGRATED= 6.869E-03
 SEC/SG²

TOAER DATA FULLY.....

TEST #143 SEPTEMBER 13, 1960 0522 TO 0552 PST
 71°C SULFUR RELEASE FROM ELEVATION OF 2M
 1600X ALC SAMPLE HT 1.5M U= 2.3 X/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/G 1/SG ²	DISTANCE METERS
110.0	1.5	52	1.438E-07	4.228E-07	1600
114.0	3.1	0	0.000E+00	0.000E+00	1600
114.0	6.2	1	5.571E-09	1.201E-08	1600
114.0	9.3	0	0.000E+00	0.000E+00	1600
114.0	12.4	25	8.913E-08	2.050E-07	1600
114.0	15.5	20	7.242E-08	1.666E-07	1600
114.0	18.6	0	0.000E+00	0.000E+00	1600
114.0	21.7	12	4.457E-08	1.025E-07	1600
114.0	24.8	0	0.000E+00	0.000E+00	1600
114.0	31.0	1	4.499E-09	1.035E-08	1600
114.0	37.2	1	4.499E-09	1.035E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/G 1/SG ²	DISTANCE METERS
122.0	1.5	1120	3.961E-06	9.110E-06	1600
122.0	3.1	1198	4.234E-06	9.738E-06	1600
122.0	6.2	1267	4.079E-06	1.030E-05	1600
122.0	9.3	1149	4.061E-06	9.341E-06	1600
122.0	12.4	1054	3.727E-06	8.572E-06	1600
122.0	15.5	1392	4.919E-06	1.131E-05	1600
122.0	18.6	838	2.964E-06	6.416E-06	1600
122.0	21.7	717	2.535E-06	5.830E-06	1600
122.0	24.8	370	1.309E-06	3.011E-06	1600
122.0	31.0	71	2.516E-07	5.794E-07	1600
122.0	37.2	1	4.499E-09	1.035E-08	1600
122.0	43.4	0	0.000E+00	0.000E+00	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/G 1/SG ²	DISTANCE METERS
130.0	1.5	4225	1.493E-05	3.430E-05	1600
130.0	3.1	4050	1.431E-05	3.242E-05	1600
130.0	6.2	3528	1.207E-05	2.868E-05	1600
130.0	9.3	2974	1.016E-05	2.336E-05	1600
130.0	12.4	4062	1.410E-05	3.253E-05	1600
130.0	15.5	3968	1.413E-05	3.249E-05	1600
130.0	18.6	2035	7.192E-06	1.654E-05	1600
130.0	21.7	1894	6.696E-06	1.540E-05	1600
130.0	24.8	774	2.735E-06	6.291E-06	1600
130.0	31.0	66	2.330E-07	5.360E-07	1600
130.0	37.2	3	1.350E-08	3.100E-08	1600

TEST #143 SEPTEMBER 13, 1960 0522 TO 0552 PST
 71°C SULFUR RELEASE FROM ELEVATION OF 2M
 3200X ALC SAMPLE HT 1.5M U= 2.3 X/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/G 1/SG ²	DISTANCE METERS
116.0	0	0	0.000E+00	0.000E+00	3200
117.0	3	1	1.372E-08	3.156E-08	3200
118.0	0	0	0.000E+00	0.000E+00	3200
119.0	0	0	0.000E+00	0.000E+00	3200
120.0	7	2	2.745E-08	6.312E-08	3200
121.0	0	0	0.000E+00	0.000E+00	3200
122.0	0	0	0.000E+00	0.000E+00	3200
123.0	1	6.441E-09	1.578E-08	3.200	
124.0	11	6.518E-08	1.499E-07	3200	
125.0	150	5.318E-07	1.223E-06	3200	
126.0	427	1.509E-06	3.472E-06	3200	
127.0	810	2.845E-06	6.589E-06	3200	
128.0	1345	0.755E-06	1.094E-05	3200	
129.0	2245	0.074E-06	1.457E-05	3200	
130.0	1614	6.412E-06	1.475E-05	3200	
131.0	1753	6.196E-06	1.425E-05	3200	
132.0	1455	5.183E-06	1.183E-05	3200	
133.0	1546	5.537E-06	1.274E-05	3200	
134.0	1241	0.308E-06	1.009E-05	3200	
135.0	1617	3.595E-06	8.269E-06	3200	
136.0	168	3.070E-06	7.062E-06	3200	
137.0	557	1.969E-06	4.529E-06	3200	
138.0	423	1.743E-06	4.008E-06	3200	
139.0	321	1.136E-06	2.612E-06	3200	
140.0	216	7.650E-07	1.760E-06	3200	
141.0	102	3.842E-07	8.837E-07	3200	
142.0	78	2.779E-07	6.391E-07	3200	
143.0	11	0.117E-08	9.469E-08	3200	
144.0	1	6.441E-09	1.578E-08	3200	
145.0	0	0.000E+00	0.000E+00	3200	
146.0	0	0.000E+00	0.000E+00	3200	
147.0	0	0.000E+00	0.000E+00	3200	
148.0	0	0.000E+00	0.000E+00	3200	
149.0	0	0.000E+00	0.000E+00	3200	
150.0	10	3.774E-08	8.680E-08	3200	
151.0	0	0.000E+00	0.000E+00	3200	
152.0	16	5.832E-08	1.341E-07	3200	

CROSS-SECTION INTEGRATED= 3.276E-03
 SEC/SG²

TOWER DATA FOLLOWZ....

TEST FT03 SEPTEMBER 14, 1960 0522 TO 0552 PST
 TIME SULFIDE RELEASE FROM ELEVATION OF 2M
 3200M ARC 0 = 2.3 M/SEC AT 2M

AZIMUTH	HEIGHT	EXPOSURE	F/C	FL/C	DISTANCE
DEGREES	METERS	GM-SEC/COUNT X10E+6	SEC/COUNT	1/SEC	METERS
130.0	1.5	1441	5.693E-06	1.171E-05	3200
130.0	3.1	1638	5.769E-06	1.331E-05	3200
130.0	6.2	1970	6.963E-06	1.602E-05	3200
130.0	9.3	1738	6.143E-06	1.413E-05	3200
130.0	12.4	1335	4.720E-06	1.086E-05	3200
130.0	15.5	1218	4.307E-06	9.906E-06	3200
130.0	18.6	1140	4.031E-06	9.272E-06	3200
130.0	21.7	914	3.233E-06	7.435E-06	3200
130.0	24.8	450	1.591E-06	3.659E-06	3200
130.0	31.0	193	6.834E-07	1.572E-06	3200
130.0	37.2	83	2.960E-07	6.809E-07	3200
130.0	43.4	10	5.257E-08	1.209E-07	3200
130.0	49.6	0	2.450E-09	5.634E-09	3200

30-SERIES EXPERIMENT: 44 (FT-44)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS. EVERY OTHER
GROUND LEVEL SAMPLER WAS ROTATED 180 DEGREES, SO AS TO FACE AWAY
FROM THE TRACER SOURCE.

TEST FT44 SEPTEMBER 27, 1960 0457 TO 0557 PST ZINC SULFIDE RELEASE FROM ELEVATION OF 2M 200M ARC SAMPLER HT 1.5M U= 2.1 M/SEC AT 2M						AZIMUTH HEIGHT EXPOSURE E/O EU/O DISTANCE DEGREES METERS GM-SEC/CM SEC/CM 1/SG,M METERS					
						X10E+6					
						106.0	0.7	71303	9.532E-05	2.002E-04	200
						106.0	1.4	78421	5.137E-05	1.079E-04	200
						106.0	2.7	31242	4.177E-05	8.771E-05	200
						106.0	4.1	39206	5.242E-05	1.101E-04	200
						106.0	5.4	34231	4.574E-05	9.610E-05	200
						106.0	6.8	36397	4.866E-05	1.022E-04	200
						106.0	8.1	35957	4.807E-05	1.010E-04	200
						106.0	9.4	22566	3.017E-05	6.336E-05	200
						106.0	10.8	23470	3.191E-05	6.702E-05	200
						106.0	13.5	13048	1.745E-05	3.663E-05	200
						106.0	16.2	8680	1.161E-05	2.437E-05	200
						106.0	18.9	2470	3.303E-06	6.936E-06	200
						106.0	21.6	667	8.917E-07	1.873E-06	200
						106.0	24.3	231	3.090E-07	6.490E-07	200
						106.0	27.0	46	6.242E-08	1.311E-07	200
* 80.0 11 1.575E-08 3.307E-08 200											
* 82.0 91 1.220E-07 2.563E-07 200											
* 84.0 577 7.716E-07 1.620E-06 200											
* 86.0 4855 6.492E-06 1.363E-05 200											
* 88.0 24636 3.561E-05 7.478E-05 200											
* 90.0 63179 8.444E-05 1.774E-04 200											
* 92.0 81496 1.088E-04 2.285E-04 200											
* 94.0 134453 1.798E-04 3.775E-04 200											
* 96.0 120881 1.616E-04 3.394E-04 200											
* 98.0 164125 2.221E-04 4.664E-04 200											
* 100.0 93741 1.253E-04 2.632E-04 200											
* 102.0 94983 1.270E-04 2.667E-04 200											
* 104.0 59333 7.932E-05 1.666E-04 200											
* 106.0 65211 8.718E-05 1.831E-04 200											
* 108.0 78167 1.045E-04 2.195E-04 200											
* 110.0 128720 1.721E-04 3.614E-04 200											
* 112.0 87039 1.164E-04 2.444E-04 200											
* 114.0 138799 1.856E-04 3.897E-04 200											
* 116.0 118593 1.585E-04 3.330E-04 200											
* 118.0 217932 2.914E-04 6.118E-04 200											
* 120.0 151652 2.027E-04 4.258E-04 200											
* 122.0 240891 3.220E-04 6.763E-04 200											
* 124.0 144853 1.937E-04 4.067E-04 200											
* 126.0 280420 3.749E-04 7.873E-04 200											
* 128.0 123829 1.655E-04 3.476E-04 200											
* 130.0 154299 2.063E-04 4.332E-04 200											
* 132.0 63956 8.550E-05 1.796E-04 200											
* 134.0 72572 9.702E-05 2.037E-04 200											
* 136.0 26077 3.486E-05 7.321E-05 200											
* 138.0 23206 3.102E-05 6.515E-05 200											
* 140.0 14637 1.957E-05 4.109E-05 200											
* 142.0 13771 1.841E-05 3.866E-05 200											
* 144.0 5706 7.629E-06 1.602E-05 200											
* 146.0 1707 2.283E-06 4.795E-06 200											
* 148.0 179 2.401E-07 5.043E-07 200											
* 150.0 35 4.724E-08 9.970E-08 200											
* 152.0 0 0.000E+00 0.000E+00 200											
* 154.0 11 1.575E-08 3.307E-08 200											
CROSSWIND INTEGRATED= 2.709E-02 5.877E-02											

TEST F144 SEPTEMBER 27, 1960 0457 TO 0557 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ARE SAMPLE HT 1.5M U= 2.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
* 80.0	11	1.523E-08	3.199E-08	800	
* 82.0	0	0.000E+00	0.000E+00	800	
* 84.0	8	1.142E-08	2.399E-08	800	
* 86.0	5	7.616E-09	1.599E-08	800	
* 88.0	0	0.000E+00	0.000E+00	800	
* 90.0	31	4.189E-08	8.796E-08	800	
* 92.0	546	7.311E-07	1.535E-06	800	
* 94.0	5049	6.797E-06	1.427E-05	800	
* 96.0	8949	1.199E-05	2.518E-05	800	
* 98.0	13036	1.743E-05	3.660E-05	800	
* 100.0	11592	1.550E-05	3.255E-05	800	
* 102.0	13184	1.803E-05	3.786E-05	800	
* 104.0	9295	1.241E-05	2.607E-05	800	
* 106.0	9074	1.213E-05	2.548E-05	800	
* 108.0	7038	9.410E-06	1.976E-05	800	
* 110.0	6403	8.560E-06	1.798E-05	800	
* 112.0	4423	5.914E-06	1.242E-05	800	
* 114.0	6648	8.888E-06	1.866E-05	800	
* 116.0	11968	1.600E-05	3.360E-05	800	
* 118.0	21015	2.810E-05	5.900E-05	800	
* 120.0	8077	1.080E-05	2.268E-05	800	
* 122.0	10744	1.436E-05	3.016E-05	800	
* 124.0	13099	1.751E-05	3.678E-05	800	
* 126.0	21795	2.914E-05	6.119E-05	800	
* 128.0	11837	1.583E-05	3.323E-05	800	
* 130.0	10895	1.457E-05	3.059E-05	800	
* 132.0	8499	1.136E-05	2.386E-05	800	
* 134.0	7029	9.348E-06	1.974E-05	800	
* 136.0	1310	1.752E-06	3.679E-06	800	
* 138.0	726	9.710E-07	2.039E-06	800	
* 140.0	227	3.046E-07	6.397E-07	800	
* 142.0	91	1.219E-07	2.559E-07	800	
* 144.0	0	0.000E+00	0.000E+00	800	
* 146.0	11	1.523E-08	3.199E-08	800	

CROSSHAIR INTEGRATED= 8.324E-03 1.744E-02
SEC/SQ.M 1/M

TOXER DATA FOLLOW... .

TEST F144 SEPTEMBER 27, 1960 0457 TO 0557 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ARE U= 2.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
98.0	1.0	7025	9.392E-06	1.972E-05	800
98.0	2.1	6217	8.312E-06	1.745E-05	800
98.0	4.2	5835	7.801E-06	1.638E-05	800
98.0	6.3	5366	7.175E-06	1.507E-05	800
98.0	8.4	4579	6.122E-06	1.286E-05	800
98.0	10.5	2194	2.933E-06	6.160E-06	800
98.0	12.6	3963	5.299E-06	1.113E-05	800
98.0	14.7	1226	1.630E-06	3.443E-06	800
98.0	16.8	1400	1.872E-06	3.931E-06	800
98.0	21.0	551	7.370E-07	1.548E-06	800
98.0	25.2	25	3.387E-08	7.113E-08	800
98.0	29.4	134	1.797E-07	3.773E-07	800
98.0	33.6	0	0.000E+00	0.000E+00	800
98.0	37.8	12	1.620E-08	3.402E-08	800
98.0	42.0	1	1.473E-09	3.092E-09	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
106.0	1.0	5146	6.280E-06	1.445E-05	800
106.0	2.1	5379	7.192E-06	1.510E-05	800
106.0	4.2	5155	6.892E-06	1.447E-05	800
106.0	6.3	2734	3.656E-06	7.677E-06	800
106.0	8.4	4726	6.319E-06	1.327E-05	800
106.0	10.5	6513	8.708E-06	1.829E-05	800
106.0	12.6	4435	5.929E-06	1.245E-05	800
106.0	14.7	5791	7.742E-06	1.626E-05	800
106.0	16.8	5548	7.418E-06	1.558E-05	800
106.0	21.0	2679	3.582E-06	7.523E-06	800
106.0	25.2	1449	1.938E-06	4.079E-06	800
106.0	29.4	666	8.909E-07	1.871E-06	800
106.0	33.6	338	4.521E-07	9.494E-07	800
106.0	37.8	52	7.069E-08	1.484E-07	800
106.0	42.0	52	7.069E-08	1.484E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
114.0	1.0	4435	5.929E-06	1.245E-05	800
114.0	2.1	4010	5.362E-06	1.126E-05	800
114.0	4.2	3838	5.132E-06	1.078E-05	800
114.0	6.3	3392	4.535E-06	9.523E-06	800
114.0	8.4	4317	5.772E-06	1.212E-05	800
114.0	10.5	3659	4.893E-06	1.028E-05	800
114.0	12.6	3562	4.763E-06	1.000E-05	800
114.0	14.7	3359	4.491E-06	9.431E-06	800
114.0	16.8	2574	3.444E-06	7.233E-06	800
114.0	21.0	2250	3.009E-06	6.318E-06	800
114.0	25.2	1419	1.898E-06	3.986E-06	800
114.0	29.4	663	8.865E-07	1.862E-06	800
114.0	33.6	391	5.228E-07	1.098E-06	800
114.0	37.8	172	2.312E-07	4.855E-07	800
114.0	42.0	62	8.394E-08	1.763E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
122.0	1.0	6887	9.209E-06	1.934E-05	800
122.0	2.1	5482	7.330E-06	1.539E-05	800
122.0	4.2	6867	9.181E-06	1.928E-05	800
122.0	6.3	7244	9.885E-06	2.034E-05	800
122.0	8.4	9103	1.217E-05	2.556E-05	800
122.0	10.5	3724	4.979E-06	1.046E-05	800
122.0	12.6	8312	1.111E-05	2.334E-05	800
122.0	14.7	6113	8.170E-06	1.716E-05	800
122.0	16.8	4114	5.500E-06	1.155E-05	800
122.0	21.0	4101	5.483E-06	1.151E-05	800
122.0	25.2	2046	2.736E-06	5.746E-06	800
122.0	29.4	1027	1.374E-06	2.885E-06	800
122.0	33.6	381	5.095E-07	1.070E-06	800
122.0	37.8	371	4.963E-07	1.042E-06	800
122.0	42.0	215	2.886E-07	6.061E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
130.0	1.0	557	7.453E-07	1.565E-06	800
130.0	2.1	7106	9.503E-06	1.996E-05	800
130.0	4.2	4320	8.450E-06	1.775E-05	800
130.0	6.3	4973	6.650E-06	1.396E-05	800
130.0	8.4	5070	7.313E-06	1.534E-05	800
130.0	10.5	5310	7.100E-06	1.491E-05	800
130.0	12.6	5401	7.221E-06	1.516E-05	800
130.0	14.7	4049	5.414E-06	1.137E-05	800
130.0	16.8	2156	2.883E-06	6.054E-06	800
130.0	21.0	1860	2.487E-06	5.223E-06	800
130.0	25.2	888	1.188E-06	2.496E-06	800
130.0	29.4	639	8.556E-07	1.797E-06	800
130.0	33.6	312	4.182E-07	8.783E-07	800
130.0	37.8	245	3.288E-07	6.896E-07	800
130.0	42.0	72	9.719E-08	2.041E-07	800

TEST F144 SEPTEMBER 27, 1960 0457 TO 0557 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600N ARC SAMPLER HT 1.5M U= 2.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
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* 93.0	2	2.740E-09	5.753E-09	1600	
94.0	0	0.000E+00	0.000E+00	1600	
* 95.0	8	1.096E-08	2.301E-08	1600	
96.0	26	3.541E-08	7.479E-08	1600	
* 97.0	122	1.644E-07	3.452E-07	1600	
98.0	666	9.178E-07	1.927E-06	1600	
* 99.0	2057	2.751E-06	5.776E-06	1600	
100.0	3532	4.723E-06	9.918E-06	1600	
* 101.0	4098	5.479E-06	1.151E-05	1600	
102.0	5446	7.816E-06	1.641E-05	1600	
* 103.0	3311	4.427E-06	9.297E-06	1600	
104.0	4719	6.309E-06	1.325E-05	1600	
* 105.0	3342	4.468E-06	9.383E-06	1600	
106.0	4442	5.939E-06	1.247E-05	1600	
* 107.0	3092	4.130E-06	8.682E-06	1600	
108.0	3041	4.066E-06	8.538E-06	1600	
* 109.0	2524	3.375E-06	7.088E-06	1600	
110.0	2454	3.242E-06	6.892E-06	1600	
* 111.0	1809	2.419E-06	5.080E-06	1600	
112.0	2791	3.731E-06	7.836E-06	1600	
* 113.0	2444	3.268E-06	6.864E-06	1600	
114.0	4032	5.392E-06	1.132E-05	1600	
* 115.0	3221	4.307E-06	9.044E-06	1600	
116.0	6090	8.142E-06	1.710E-05	1600	
* 117.0	5547	7.416E-06	1.557E-05	1600	
118.0	4696	6.279E-06	1.319E-05	1600	
* 119.0	1700	2.274E-06	4.775E-06	1600	
120.0	2387	3.192E-06	6.702E-06	1600	
* 121.0	1145	1.518E-06	3.187E-06	1600	
122.0	1950	2.608E-06	5.477E-06	1600	
* 123.0	2065	2.762E-06	5.799E-06	1600	
124.0	4700	6.245E-06	1.320E-05	1600	
* 125.0	5711	7.635E-06	1.603E-05	1600	
126.0	9424	1.260E-05	2.646E-05	1600	
* 127.0	4700	6.285E-06	1.320E-05	1600	
128.0	5955	7.941E-06	1.672E-05	1600	
* 129.0	2522	3.372E-06	7.042E-06	1600	
130.0	3151	4.214E-06	8.848E-06	1600	
* 131.0	2149	2.874E-06	6.035E-06	1600	
132.0	3047	4.074E-06	8.555E-06	1600	
* 133.0	3668	5.172E-06	1.086E-05	1600	
134.0	3512	4.696E-06	9.861E-06	1600	
* 135.0	1663	2.225E-06	4.672E-06	1600	
136.0	1100	1.471E-06	3.089E-06	1600	
* 137.0	202	2.712E-07	5.696E-07	1600	
138.0	92	1.233E-07	2.589E-07	1600	

CROSSWIND INTEGRATED= 5.049E-03 1.058E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOWING...

TEST F144 SEPTEMBER 27, 1960 0457 TO 0557 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600N ARC U= 2.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
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98.0	1.5	420	5.617E-07	1.179E-06	1600
99.0	3.1	308	5.327E-07	1.119E-06	1600
99.0	6.2	212	2.842E-07	5.969E-07	1600
99.0	9.3	300	4.017E-07	8.435E-07	1600
99.0	15.5	101	1.362E-07	2.859E-07	1600
99.0	18.6	72	9.701E-08	2.037E-07	1600
99.0	21.7	26	3.574E-08	7.506E-08	1600
99.0	24.8	1	2.523E-09	5.299E-09	1600
99.0	31.0	0	0.000E+00	0.000E+00	1600
99.0	37.2	0	0.000E+00	0.000E+00	1600
99.0	43.4	0	1.262E-09	2.650E-09	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
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106.0	1.5	2548	3.407E-06	7.155E-06	1600
106.0	3.1	2455	3.283E-06	6.895E-06	1600
106.0	6.2	2351	3.144E-06	6.601E-06	1600
106.0	9.3	3124	4.177E-06	8.771E-06	1600
106.0	12.4	2218	2.967E-06	6.230E-06	1600
106.0	15.5	2558	3.421E-06	7.184E-06	1600
106.0	18.6	2845	3.804E-06	7.988E-06	1600
106.0	21.7	2068	2.766E-06	5.808E-06	1600
106.0	24.8	1231	1.647E-06	3.458E-06	1600
106.0	31.0	662	8.857E-07	1.860E-06	1600
106.0	37.2	209	2.801E-07	5.882E-07	1600
106.0	43.4	36	4.921E-08	1.033E-07	1600
106.0	49.6	11	1.561E-08	3.279E-08	1600
106.0	55.8	0	0.000E+00	0.000E+00	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
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114.0	1.5	409	5.480E-07	1.151E-06	1600
114.0	3.1	1339	1.790E-06	3.760E-06	1600
114.0	6.2	1909	2.553E-06	5.361E-06	1600
114.0	9.3	1815	2.427E-06	5.097E-06	1600
114.0	12.4	874	1.169E-06	2.455E-06	1600
114.0	15.5	1536	2.054E-06	4.314E-06	1600
114.0	18.6	720	9.633E-07	2.023E-06	1600
114.0	21.7	1293	1.729E-06	3.631E-06	1600
114.0	24.8	906	1.332E-06	2.798E-06	1600
114.0	31.0	622	8.327E-07	1.749E-06	1600
114.0	37.2	454	6.082E-07	1.277E-06	1600
114.0	43.4	215	2.877E-07	6.041E-07	1600
114.0	49.6	45	6.141E-08	1.290E-07	1600
114.0	55.8	7	9.368E-09	1.967E-08	1600
114.0	62.0	0	0.000E+00	0.000E+00	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
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122.0	1.5	824	1.103E-06	2.316E-06	1600
122.0	3.1	1116	1.493E-06	3.135E-06	1600
122.0	6.2	1089	1.457E-06	3.059E-06	1600
122.0	9.3	1144	1.516E-06	3.185E-06	1600
122.0	12.4	1395	1.865E-06	3.917E-06	1600
122.0	15.5	1419	1.898E-06	3.985E-06	1600
122.0	18.6	1409	1.884E-06	3.957E-06	1600
122.0	21.7	1339	1.790E-06	3.760E-06	1600
122.0	24.8	1028	1.375E-06	2.888E-06	1600
122.0	31.0	741	9.917E-07	2.083E-06	1600
122.0	37.2	302	4.580E-07	9.618E-07	1600
122.0	43.4	95	1.274E-07	2.676E-07	1600
122.0	49.6	18	2.498E-08	5.246E-08	1600
122.0	55.8	0	1.041E-09	2.166E-09	1600
122.0	62.0	0	0.000E+00	0.000E+00	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
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130.0	1.5	1714	2.293E-06	4.814E-06	1600
130.0	3.1	1880	2.514E-06	5.279E-06	1600
130.0	6.2	1243	1.663E-06	3.492E-06	1600
130.0	9.3	1214	1.624E-06	3.410E-06	1600
130.0	12.4	2072	2.771E-06	5.819E-06	1600
130.0	15.5	1641	2.194E-06	4.607E-06	1600
130.0	18.6	1507	2.015E-06	4.232E-06	1600
130.0	21.7	1406	1.881E-06	3.949E-06	1600
130.0	24.8	681	9.110E-07	1.913E-06	1600
130.0	31.0	443	5.930E-07	1.245E-06	1600
130.0	37.2	141	2.031E-07	4.266E-07	1600
130.0	43.4	61	8.201E-08	1.722E-07	1600
130.0	49.6	12	1.665E-08	3.497E-08	1600
130.0	55.8	1	2.082E-09	4.372E-09	1600
130.0	62.0	0	1.041E-09	2.166E-09	1600

TEST FT44 SEPTEMBER 27, 1960 0457 TO 0557 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 3200M AWC SAMPLER HT 1.5M U= 2.1 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	FU/Z 1/SEC.M	DISTANCE METERS
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* 101.0	10	1.428E-08	2.998E-08	3200
102.0	122	1.635E-07	3.434E-07	3200
* 103.0	252	3.375E-07	7.067E-07	3200
104.0	451	1.138E-06	2.390E-06	3200
* 105.0	1169	1.564E-06	3.284E-06	3200
106.0	2422	2.704E-06	5.678E-06	3200
* 107.0	1684	2.252E-06	4.729E-06	3200
S 108.0	1899	2.540E-06	5.334E-06	3200
* 109.0	931	1.205E-06	2.614E-06	3200
110.0	1649	2.232E-06	4.688E-06	3200
* 111.0	1456	1.947E-06	4.089E-06	3200
112.0	644	9.151E-07	1.922E-06	3200
* 113.0	1296	1.733E-06	3.639E-06	3200
114.0	1179	1.577E-06	3.312E-06	3200
* 115.0	950	1.271E-06	2.668E-06	3200
116.0	710	9.501E-07	1.995E-06	3200
* 117.0	671	8.982E-07	1.886E-06	3200
118.0	808	1.081E-06	2.271E-06	3200
* 119.0	609	8.151E-07	1.712E-06	3200
120.0	800	1.071E-06	2.249E-06	3200
* 121.0	446	1.132E-06	2.377E-06	3200
122.0	894	1.195E-06	2.510E-06	3200
* 123.0	961	1.285E-06	2.698E-06	3200
124.0	1723	2.304E-06	4.838E-06	3200
* 125.0	892	1.193E-06	2.505E-06	3200
126.0	1068	1.429E-06	3.001E-06	3200
* 127.0	1043	1.395E-06	2.930E-06	3200
128.0	846	1.132E-06	2.377E-06	3200
* 129.0	493	6.594E-07	1.385E-06	3200
130.0	968	1.295E-06	2.720E-06	3200
* 131.0	602	8.060E-07	1.693E-06	3200
132.0	1152	1.541E-06	3.235E-06	3200
* 133.0	842	1.143E-06	2.420E-06	3200
134.0	585	7.827E-07	1.644E-06	3200
* 135.0	256	3.427E-07	7.196E-07	3200
136.0	119	1.596E-07	3.353E-07	3200
* 137.0	21	2.856E-08	5.997E-08	3200

CROSSWIND INTEGRATED= 2.473E-03 5.194E-03
 SEC/SEC.M 1/M

TOWER DATA FILLER....

TEST FT44 SEPTEMBER 27, 1960 0457 TO 0557 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 3200M AWC U= 2.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	FU/Z 1/SEC.M	DISTANCE METERS
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106.0	1.5	1522	2.038E-06	4.275E-06	3200
106.0	3.1	1677	2.242E-06	4.708E-06	3200
106.0	6.2	1736	2.322E-06	4.876E-06	3200
106.0	9.3	1353	1.810E-06	3.801E-06	3200
106.0	12.4	1170	1.565E-06	3.286E-06	3200
106.0	15.5	1053	1.408E-06	2.957E-06	3200
106.0	18.6	1276	1.706E-06	3.583E-06	3200
106.0	21.7	1069	1.430E-06	3.003E-06	3200
106.0	24.8	618	8.272E-07	1.737E-06	3200
106.0	31.0	458	6.124E-07	1.286E-06	3200
106.0	37.2	207	2.772E-07	5.821E-07	3200
106.0	43.4	90	1.204E-07	2.528E-07	3200
106.0	49.6	39	5.215E-08	1.095E-07	3200
106.0	55.8	20	2.761E-08	5.798E-08	3200
106.0	62.0	0	0.000E+00	0.000E+00	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	FU/Z 1/SEC.M	DISTANCE METERS
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114.0	1.5	1061	1.419E-06	2.981E-06	3200
114.0	3.1	925	1.237E-06	2.598E-06	3200
114.0	6.2	1170	1.565E-06	3.286E-06	3200
T 114.0	9.3	822	1.098E-06	2.308E-06	3200
114.0	12.4	1129	1.510E-06	3.172E-06	3200
114.0	15.5	992	1.327E-06	2.787E-06	3200
114.0	18.6	1022	1.367E-06	2.871E-06	3200
114.0	21.7	1291	1.726E-06	3.625E-06	3200
114.0	24.8	1054	1.409E-06	2.960E-06	3200
114.0	31.0	1047	1.401E-06	2.941E-06	3200
114.0	37.2	475	6.358E-07	1.335E-06	3200
114.0	43.4	425	5.691E-07	1.195E-06	3200
114.0	49.6	250	3.351E-07	7.038E-07	3200
114.0	55.8	136	1.825E-07	3.833E-07	3200
114.0	62.0	52	7.056E-08	1.482E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	FU/Z 1/SEC.M	DISTANCE METERS
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122.0	1.5	744	1.023E-06	2.148E-06	3200
122.0	3.1	1013	1.350E-06	2.809E-06	3200
122.0	6.2	870	1.164E-06	2.444E-06	3200
122.0	9.3	846	1.132E-06	2.376E-06	3200
122.0	12.4	674	9.013E-07	1.893E-06	3200
122.0	15.5	730	9.766E-07	2.051E-06	3200
122.0	18.6	544	7.306E-07	1.530E-06	3200
122.0	21.7	648	9.337E-07	1.961E-06	3200
122.0	24.8	520	6.956E-07	1.461E-06	3200
122.0	31.0	290	3.881E-07	8.149E-07	3200
122.0	37.2	28	1.187E-07	2.492E-07	3200
122.0	43.4	15	2.079E-08	4.366E-08	3200
S 122.0	49.6	10	1.380E-08	2.899E-08	3200
122.0	55.8	0	7.669E-10	1.611E-09	3200
122.0	62.0	1	2.301E-09	4.832E-09	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	FU/Z 1/SEC.M	DISTANCE METERS
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130.0	1.5	916	1.226E-06	2.574E-06	3200
130.0	3.1	665	8.897E-07	1.868E-06	3200
130.0	6.2	1013	1.356E-06	2.847E-06	3200
130.0	9.3	1081	1.446E-06	3.036E-06	3200
130.0	12.4	1092	1.460E-06	3.066E-06	3200
130.0	15.5	744	9.986E-07	2.097E-06	3200
130.0	18.6	1024	1.369E-06	2.875E-06	3200
130.0	21.7	962	1.286E-06	2.702E-06	3200
130.0	24.8	393	5.258E-07	1.104E-06	3200
130.0	31.0	127	1.706E-07	3.583E-07	3200
130.0	37.2	44	5.890E-08	1.237E-07	3200
130.0	43.4	20	2.685E-08	5.639E-08	3200
130.0	49.6	12	1.611E-08	3.382E-08	3200
130.0	55.8	1	1.534E-09	3.221E-09	3200
130.0	62.0	5	6.902E-09	1.444E-08	3200

30-SERIES EXPERIMENT: 45 (FT-45)
GROUND LEVEL AND TOWER SAMPLING 200-12800 M ARCS. EVERY OTHER
GROUND LEVEL SAMPLER WAS ROTATED 180 DEGREES, SO AS TO FACE AWAY
FROM THE TRACER SOURCE.

TEST FT45 OCTOBER 12, 1960 124A TO 1317 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200A ARC SAMPLED AT 1.5M U= 6.0 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+4	F/R SEC/CM ²	FU/R 1/SQ.M	DISTANCE METERS
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74.0	7	5.942E-09	3.565E-08	200
* 76.0	0	0.000E+00	0.000E+00	200
78.0	12	9.903E-09	5.942E-08	200
* 80.0	4	3.961E-09	2.377E-08	200
82.0	20	1.683E-08	1.010E-07	200
* 84.0	3	2.971E-09	1.782E-08	200
86.0	71	5.743E-08	3.046E-07	200
* 88.0	110	8.912E-08	5.347E-07	200
90.0	483	3.902E-07	2.341E-06	200
* 92.0	508	4.100E-07	2.460E-06	200
94.0	3429	2.766E-06	1.659E-05	200
* 96.0	2389	1.927E-06	1.156E-05	200
98.0	11396	9.191E-06	5.514E-05	200
* 100.0	8211	6.622E-06	3.973E-05	200
102.0	32003	2.581E-05	1.549E-04	200
* 104.0	17539	1.414E-05	8.487E-05	200
106.0	45539	3.673E-05	2.208E-04	200
* 108.0	14210	1.146E-05	6.676E-05	200
110.0	30233	2.438E-05	1.463E-04	200
* 112.0	7983	6.439E-06	3.863E-05	200
114.0	39419	3.179E-05	1.907E-04	200
* 116.0	11489	9.266E-06	5.559E-05	200
118.0	31403	2.536E-05	1.521E-04	200
* 120.0	12875	1.038E-05	6.230E-05	200
122.0	30394	2.451E-05	1.471E-04	200
* 124.0	11137	8.982E-06	5.389E-05	200
126.0	25396	2.045E-05	1.227E-04	200
* 128.0	7886	6.360E-06	3.816E-05	200
130.0	19128	1.543E-05	9.256E-05	200
* 132.0	3972	3.203E-06	1.922E-05	200
134.0	8473	6.834E-06	4.100E-05	200
* 136.0	1480	1.194E-06	7.165E-06	200
138.0	1310	1.057E-06	6.340E-06	200
* 140.0	61	4.951E-08	2.971E-07	200
142.0	163	1.317E-07	7.902E-07	200
* 144.0	13	1.089E-08	6.536E-08	200

CROSSWIND INTEGRATE= 2.132E-03 1.279E-02
SEC/34.M 1/M

TOWER DATA FOLLOWS....

TEST FT45 OCTOBER 12, 1960 124A TO 1317 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200A ARC U= 6.0 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/R SEC/CM ²	FU/R 1/SQ.M	DISTANCE METERS
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98.0	0.7	49260	3.166E-05	1.900E-04	200
98.0	1.4	8513	6.866E-06	4.119E-05	200
98.0	2.7	8467	6.828E-06	4.097E-05	200
98.0	4.1	6696	5.392E-06	3.235E-05	200
98.0	5.4	8543	6.890E-06	4.138E-05	200
98.0	6.8	8785	7.085E-06	4.251E-05	200
98.0	8.1	6557	5.288E-06	3.173E-05	200
98.0	9.4	6620	5.346E-06	3.208E-05	200
98.0	10.8	4267	3.442E-06	2.065E-05	200
98.0	13.5	3057	2.466E-06	1.479E-05	200
98.0	16.2	2404	1.939E-06	1.163E-05	200
98.0	18.9	1933	1.608E-06	9.648E-06	200
98.0	21.6	1879	1.516E-06	9.095E-06	200
98.0	24.3	990	7.990E-07	4.794E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/R SEC/CM ²	FU/R 1/SQ.M	DISTANCE METERS
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106.0	0.7	117900	9.508E-05	5.705E-04	200
106.0	1.4	26171	2.111E-05	1.266E-04	200
106.0	2.7	19343	1.560E-05	9.360E-05	200
106.0	4.1	16333	1.317E-05	7.903E-05	200
106.0	5.4	22198	1.790E-05	1.074E-04	200
106.0	6.8	20076	1.619E-05	9.714E-05	200
106.0	8.1	18385	1.483E-05	8.896E-05	200
106.0	9.4	17254	1.391E-05	8.349E-05	200
106.0	10.8	16010	1.291E-05	7.747E-05	200
106.0	13.5	10842	8.744E-06	5.244E-05	200
106.0	16.2	8619	6.951E-06	4.171E-05	200
Z 106.0	18.9	4958	3.990E-06	2.399E-05	200
Z 106.0	21.6	3438	2.773E-06	1.662E-05	200
106.0	24.3	4996	4.030E-06	2.418E-05	200
106.0	27.0	2876	2.320E-06	1.392E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/R SEC/CM ²	FU/R 1/SQ.M	DISTANCE METERS
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114.0	0.7	83962	6.771E-05	4.063E-04	200
114.0	1.4	16788	1.351E-05	8.104E-05	200
114.0	2.7	15408	1.243E-05	7.456E-05	200
114.0	4.1	25037	2.019E-05	1.211E-04	200
114.0	5.4	24179	1.950E-05	1.170E-04	200
114.0	6.8	18788	1.515E-05	9.091E-05	200
114.0	8.1	13972	1.127E-05	6.761E-05	200
114.0	9.4	12332	9.944E-06	5.967E-05	200
114.0	10.8	12091	9.751E-06	5.850E-05	200
114.0	13.5	11692	9.429E-06	5.658E-05	200
114.0	16.2	9918	7.994E-06	4.799E-05	200
114.0	18.9	6876	5.545E-06	3.327E-05	200
114.0	21.6	5964	4.810E-06	2.886E-05	200
114.0	24.3	4214	3.399E-06	2.039E-05	200
114.0	27.0	4692	3.780E-06	2.270E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/R SEC/CM ²	FU/R 1/SQ.M	DISTANCE METERS
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122.0	0.7	97483	7.862E-05	4.717E-04	200
122.0	1.4	15000	1.210E-05	7.258E-05	200
122.0	2.7	19102	1.540E-05	9.243E-05	200
122.0	4.1	15436	1.245E-05	7.469E-05	200
122.0	5.4	18570	1.498E-05	8.986E-05	200
122.0	6.8	20741	1.673E-05	1.004E-04	200
122.0	8.1	16561	1.336E-05	8.014E-05	200
122.0	9.4	15251	1.210E-05	7.380E-05	200
122.0	10.8	7749	6.250E-06	3.750E-05	200
122.0	13.5	10639	8.580E-06	5.148E-05	200
122.0	16.2	7305	5.924E-06	3.554E-05	200
122.0	18.9	6571	5.299E-06	3.180E-05	200
122.0	21.6	6490	5.234E-06	3.140E-05	200
122.0	24.3	3806	3.070E-06	1.842E-05	200
122.0	27.0	4900	3.952E-06	2.371E-05	200

AZIMUTH HEIGHT EXPOSURE E/O FU/O DISTANCE TOWER DATA FOLLOW...
 DEGREES METERS GM-SEC/CU,M SEC/CU,M 1/SQ,M METERS

130.0	0.7	55177	4.450E-05	2.670E-04	200
130.0	1.4	10000	8.130E-06	4.875E-05	200
130.0	2.7	9023	7.277E-06	4.368E-05	200
130.0	4.1	12519	1.010E-05	6.054E-05	200
130.0	5.4	7501	6.049E-06	3.630E-05	200
130.0	6.8	12318	9.951E-06	5.970E-05	200
130.0	8.1	10717	8.643E-06	5.186E-05	200
130.0	9.4	10688	8.610E-06	5.172E-05	200
130.0	10.8	7389	5.959E-06	3.574E-05	200
130.0	13.5	8683	7.003E-06	4.202E-05	200
130.0	16.2	5745	4.633E-06	2.780E-05	200
130.0	18.9	7166	5.779E-06	3.468E-05	200
130.0	21.6	5408	4.390E-06	2.636E-05	200
130.0	24.3	3761	3.033E-06	1.820E-05	200
130.0	27.0	2563	2.068E-06	1.241E-05	200

TEST F145 OCTOBER 12, 1960 1200 TO 1317 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 20
 8000 ALC SAMPLED AT 1.5% W = 6.0 M/SEC AT 2M

AZIMUTH EXPOSURE E/O FU/O DISTANCE
 DEGREES METERS GM-SEC/CU,M SEC/CU,M 1/SQ,M METERS
 X10E+6

* 88.0	3	2.870E-09	1.724E-08	800
90.0	3	2.870E-09	1.724E-08	800
* 92.0	38	3.065E-08	1.839E-07	800
94.0	281	2.270E-07	1.362E-06	800
* 96.0	185	1.404E-07	8.966E-07	800
98.0	1538	1.240E-06	7.495E-06	800
* 100.0	614	4.952E-07	2.971E-06	800
102.0	1424	1.149E-06	6.891E-06	800
* 104.0	605	4.885E-07	2.931E-06	800
106.0	2136	1.723E-06	1.034E-05	800
* 108.0	730	5.891E-07	3.535E-06	800
110.0	2021	1.630E-06	9.782E-06	800
* 112.0	532	4.291E-07	2.575E-06	800
114.0	1665	1.343E-06	8.058E-06	800
* 116.0	491	3.966E-07	2.379E-06	800
118.0	1833	1.156E-06	6.937E-06	800
* 120.0	874	7.050E-07	4.230E-06	800
122.0	2760	2.226E-06	1.336E-05	800
* 124.0	767	6.207E-07	3.724E-06	800
126.0	1642	1.341E-06	8.046E-06	800
* 128.0	450	3.630E-07	2.178E-06	800
130.0	1126	9.081E-07	5.448E-06	800
* 132.0	213	1.724E-07	1.035E-06	800
134.0	559	4.512E-07	2.707E-06	800
* 136.0	48	3.927E-08	2.356E-07	800
138.0	23	1.916E-08	1.149E-07	800
* 140.0	2	1.916E-09	1.149E-08	800

CROSSHAIR INTEGRATED = 5.001E-04 3.001E-03
 SEC/SQ,M 1/M

TEST F145 OCTOBER 12, 1960 1200 TO 1317 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 20
 8000 ALC W = 6.0 M/SEC AT 2M

AZIMUTH HEIGHT EXPOSURE E/O FU/O DISTANCE
 DEGREES METERS GM-SEC/CU,M SEC/CU,M 1/SQ,M METERS
 X10E+6

98.0	1.0	475	3.836E-07	2.302E-06	800
98.0	2.1	628	5.066E-07	3.040E-06	800
98.0	4.2	660	5.327E-07	3.196E-06	800
98.0	6.3	731	5.902E-07	3.541E-06	800
98.0	8.4	791	6.381E-07	3.829E-06	800
98.0	10.5	757	6.106E-07	3.664E-06	800
98.0	12.6	476	3.841E-07	2.305E-06	800
98.0	14.7	770	6.215E-07	3.729E-06	800
98.0	16.8	478	3.860E-07	2.314E-06	800
98.0	21.0	445	3.594E-07	2.157E-06	800
98.0	25.2	491	3.968E-07	2.381E-06	800
98.0	29.4	387	3.123E-07	1.974E-06	800
S 98.0	33.6	290	2.341E-07	1.405E-06	800
98.0	37.8	308	2.485E-07	1.491E-06	800
98.0	42.0	234	1.892E-07	1.135E-06	800

AZIMUTH HEIGHT EXPOSURE E/O FU/O DISTANCE
 DEGREES METERS GM-SEC/CU,M SEC/CU,M 1/SQ,M METERS
 X10E+6

106.0	1.0	956	7.716E-07	4.629E-06	800
106.0	2.1	490	3.955E-07	2.373E-06	800
106.0	4.2	1405	1.134E-06	6.803E-06	800
106.0	6.3	1275	1.028E-06	6.171E-06	800
106.0	8.4	1582	1.276E-06	7.655E-06	800
106.0	10.5	1388	1.120E-06	6.718E-06	800
106.0	12.6	1517	1.224E-06	7.344E-06	800
106.0	14.7	1501	1.243E-06	7.458E-06	800
106.0	16.8	1342	1.083E-06	6.495E-06	800
106.0	21.0	1439	1.161E-06	6.966E-06	800
106.0	25.2	983	7.931E-07	4.759E-06	800
S 106.0	29.4	698	5.630E-07	3.378E-06	800
106.0	33.6	1061	8.564E-07	5.139E-06	800
106.0	37.8	1067	8.609E-07	5.166E-06	800
106.0	42.0	683	5.509E-07	3.305E-06	800

AZIMUTH HEIGHT EXPOSURE E/O FU/O DISTANCE
 DEGREES METERS GM-SEC/CU,M SEC/CU,M 1/SQ,M METERS
 X10E+6

114.0	1.0	876	7.065E-07	4.239E-06	800
114.0	2.1	1446	1.167E-06	7.000E-06	800
114.0	4.2	1251	1.009E-06	6.054E-06	800
114.0	6.3	991	7.996E-07	4.798E-06	800
114.0	8.4	933	7.531E-07	4.514E-06	800
114.0	10.5	1182	9.534E-07	5.721E-06	800
114.0	12.6	1450	1.169E-06	7.017E-06	800
114.0	14.7	1162	9.373E-07	5.624E-06	800
114.0	16.8	972	7.844E-07	4.706E-06	800
114.0	21.0	1126	9.083E-07	5.450E-06	800
114.0	25.2	719	5.724E-07	3.437E-06	800
114.0	29.4	971	7.836E-07	4.702E-06	800
114.0	33.6	1114	8.991E-07	5.395E-06	800
114.0	37.8	1277	1.030E-06	6.179E-06	800
114.0	42.0	1190	9.602E-07	5.761E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/R SEC/CM. X10E+6	EU/Q 1/SEC. X10E+6	DISTANCE METERS
122.0	1.0	1268	1.023E-06	6.139E-06	800
122.0	2.1	1309	1.056E-06	6.336E-06	800
122.0	4.2	1627	1.312E-06	7.874E-06	800
122.0	6.3	1587	1.280E-06	7.681E-06	800
122.0	8.4	1352	1.091E-06	6.544E-06	800
122.0	10.5	1109	8.950E-07	5.370E-06	800
122.0	12.6	1392	1.123E-06	6.738E-06	800
122.0	14.7	1640	1.323E-06	7.940E-06	800
122.0	16.8	1509	1.217E-06	7.305E-06	800
122.0	21.0	1182	9.534E-07	5.721E-06	800
122.0	25.2	937	7.558E-07	4.535E-06	800
122.0	29.4	1258	1.015E-06	6.088E-06	800
122.0	33.6	750	6.053E-07	3.632E-06	800
122.0	37.8	776	6.264E-07	3.758E-06	800
122.0	42.0	740	5.972E-07	3.583E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/R SEC/CM. X10E+6	EU/Q 1/SEC. X10E+6	DISTANCE METERS
130.0	1.0	300	2.749E-07	1.650E-06	800
130.0	2.1	709	5.721E-07	3.433E-06	800
130.0	4.2	705	5.688E-07	3.413E-06	800
130.0	6.3	691	5.574E-07	3.345E-06	800
130.0	8.4	698	5.631E-07	3.379E-06	800
130.0	10.5	708	5.712E-07	3.427E-06	800
130.0	12.6	771	6.225E-07	3.735E-06	800
130.0	14.7	750	6.054E-07	3.632E-06	800
130.0	16.8	710	5.726E-07	3.436E-06	800
130.0	21.0	556	4.492E-07	2.695E-06	800
130.0	25.2	347	2.799E-07	1.688E-06	800
130.0	33.6	391	3.159E-07	1.895E-06	800
130.0	37.8	366	2.952E-07	1.771E-06	800
130.0	42.0	329	2.660E-07	1.596E-06	800

TEST F145 OCTOBER 12, 1960 1248 TO 1317 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5" U = 6.0 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. X10E+6	E/R SEC/CM. X10E+6	EU/Q 1/SEC. X10E+6	DISTANCE METERS
* 93.0	3	2.435E-09	1.461E-08	1600
94.0	30	2.972E-08	1.753E-07	1600
* 95.0	32	2.597E-08	1.558E-07	1600
96.0	90	7.304E-08	4.382E-07	1600
* 97.0	103	8.359E-08	5.015E-07	1600
98.0	308	2.401E-07	1.495E-06	1600
* 99.0	92	7.466E-08	4.480E-07	1600
100.0	353	2.848E-07	1.709E-06	1600
* 101.0	141	1.144E-07	6.866E-07	1600
102.0	375	3.027E-07	1.816E-06	1600
* 103.0	104	8.408E-08	5.064E-07	1600
104.0	289	2.337E-07	1.402E-06	1600
* 105.0	150	1.217E-07	7.304E-07	1600
106.0	503	4.058E-07	2.435E-06	1600
* 107.0	197	1.591E-07	9.544E-07	1600
108.0	579	4.674E-07	2.805E-06	1600
* 109.0	158	1.282E-07	7.693E-07	1600
110.0	418	3.376E-07	2.026E-06	1600
* 111.0	119	9.657E-08	5.798E-07	1600
112.0	500	4.033E-07	2.420E-06	1600
* 113.0	104	8.440E-08	5.064E-07	1600
114.0	488	3.936E-07	2.362E-06	1600
* 115.0	147	1.193E-07	7.158E-07	1600
116.0	585	4.723E-07	2.834E-06	1600
* 117.0	209	1.688E-07	1.013E-06	1600
118.0	536	4.325E-07	2.595E-06	1600
* 119.0	195	1.570E-07	9.446E-07	1600
120.0	634	5.121E-07	3.072E-06	1600
* 121.0	246	1.988E-07	1.193E-06	1600
122.0	543	4.382E-07	2.629E-06	1600
* 123.0	235	1.899E-07	1.139E-06	1600
124.0	362	2.922E-07	1.753E-06	1600
* 125.0	131	1.063E-07	6.379E-07	1600
126.0	528	4.261E-07	2.556E-06	1600
* 127.0	153	1.242E-07	7.050E-07	1600
128.0	476	3.847E-07	2.308E-06	1600
* 129.0	86	6.979E-08	4.187E-07	1600
130.0	246	1.988E-07	1.193E-06	1600
* 131.0	44	3.571E-08	2.142E-07	1600
132.0	136	1.104E-07	6.622E-07	1600
* 133.0	17	1.380E-08	8.278E-08	1600

CROSSWIND INTEGRATED = 2.404E+04 1.442E+03
SEC/SEC.M 1/M

TOWER DATA FOLLOW.....

TEST F145 OCTOBER 12, 1960 1248 TO 1317 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC U = 6.0 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/R SEC/CM. X10E+6	EU/Q 1/SEC. X10E+6	DISTANCE METERS
98.0	1.5	104	1.169E-07	7.014E-07	1600
98.0	3.1	151	1.222E-07	7.329E-07	1600
98.0	6.2	224	1.813E-07	1.088E-06	1600
98.0	9.3	146	1.177E-07	7.067E-07	1600
98.0	12.4	210	1.690E-07	1.019E-06	1600
T 98.0	15.5	23	1.926E-08	1.156E-07	1600
98.0	18.6	123	1.563E-07	9.378E-07	1600
98.0	21.7	161	1.300E-07	7.802E-07	1600
98.0	24.8	139	1.116E-07	6.696E-07	1600
98.0	31.0	147	1.349E-07	8.096E-07	1600
98.0	37.2	141	1.303E-07	7.821E-07	1600
98.0	43.4	127	1.020E-07	6.147E-07	1600
98.0	49.6	48	3.935E-08	2.361E-07	1600
98.0	55.8	112	9.110E-08	5.466E-07	1600
98.0	62.0	95	7.689E-08	4.613E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	FU/D 1/SEC.M	DISTANCE METERS
106.0	1.5	147	1.187E-07	7.119E-07	1600
106.0	3.1	206	1.664E-07	9.982E-07	1600
106.0	6.2	163	1.322E-07	7.933E-07	1600
106.0	9.3	263	2.123E-07	1.274E-06	1600
106.0	12.4	270	2.185E-07	1.311E-06	1600
106.0	15.5	310	2.504E-07	1.503E-06	1600
106.0	18.6	346	2.793E-07	1.674E-06	1600
106.0	21.7	245	1.979E-07	1.187E-06	1600
106.0	24.8	212	1.712E-07	1.027E-06	1600
106.0	31.0	377	3.048E-07	1.829E-06	1600
106.0	37.2	199	1.607E-07	9.645E-07	1600
106.0	43.4	284	2.295E-07	1.377E-06	1600
106.0	49.6	149	1.206E-07	7.237E-07	1600
106.0	55.8	195	1.570E-07	9.445E-07	1600
106.0	62.0	167	1.348E-07	8.099E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	FU/D 1/SEC.M	DISTANCE METERS
114.0	1.5	140	1.051E-07	6.305E-07	1600
114.0	3.1	105	1.173E-07	7.040E-07	1600
114.0	6.2	193	1.563E-07	9.378E-07	1600
114.0	9.3	266	2.145E-07	1.287E-06	1600
114.0	12.4	253	2.045E-07	1.227E-06	1600
114.0	15.5	214	1.729E-07	1.038E-06	1600
114.0	18.6	284	2.294E-07	1.377E-06	1600
114.0	21.7	222	1.791E-07	1.074E-06	1600
114.0	24.8	170	1.374E-07	8.246E-07	1600
114.0	31.0	162	1.312E-07	7.871E-07	1600
114.0	37.2	116	9.370E-08	5.622E-07	1600
114.0	43.4	155	1.253E-07	7.521E-07	1600
114.0	49.6	129	1.042E-07	6.253E-07	1600
114.0	55.8	144	1.162E-07	6.974E-07	1600
114.0	62.0	126	1.020E-07	6.122E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	FU/D 1/SEC.M	DISTANCE METERS
122.0	1.5	265	2.141E-07	1.285E-06	1600
122.0	3.1	278	2.246E-07	1.348E-06	1600
122.0	6.2	329	2.653E-07	1.592E-06	1600
122.0	9.3	302	2.443E-07	1.466E-06	1600
122.0	12.4	464	3.748E-07	2.249E-06	1600
122.0	15.5	459	3.708E-07	2.225E-06	1600
122.0	18.6	485	3.914E-07	2.349E-06	1600
122.0	21.7	305	2.465E-07	1.479E-06	1600
122.0	24.8	472	3.810E-07	2.286E-06	1600
122.0	31.0	313	2.690E-07	1.614E-06	1600
122.0	37.2	270	2.178E-07	1.307E-06	1600
122.0	43.4	299	2.415E-07	1.449E-06	1600
122.0	49.6	276	2.234E-07	1.340E-06	1600
122.0	55.8	223	1.800E-07	1.080E-06	1600
122.0	62.0	123	9.948E-08	5.969E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	FU/D 1/SEC.M	DISTANCE METERS
130.0	1.5	78	4.305E-08	3.783E-07	1600
130.0	3.1	117	9.457E-08	5.674E-07	1600
130.0	6.2	118	9.545E-08	5.727E-07	1600
130.0	9.3	48	3.940E-08	2.364E-07	1600
130.0	12.4	135	1.090E-07	6.541E-07	1600
130.0	15.5	201	1.629E-07	9.772E-07	1600
130.0	18.6	111	8.975E-08	5.385E-07	1600
130.0	21.7	211	1.708E-07	1.025E-06	1600
130.0	24.8	132	1.070E-07	6.422E-07	1600
130.0	31.0	129	1.041E-07	6.247E-07	1600
130.0	37.2	132	1.066E-07	6.397E-07	1600
130.0	43.4	118	9.578E-08	5.747E-07	1600
130.0	49.6	107	8.672E-08	5.203E-07	1600
130.0	55.8	101	8.162E-08	4.897E-07	1600
130.0	62.0	95	8.053E-08	4.832E-07	1600

TEST F145 OCTOBER 12, 1960 1200 TO 1317 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M AHC SAMPLER HT 1.5M W= 6.0 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	FU/D 1/SEC.M	DISTANCE METERS
* 97.0	0	0.000E+00	0.000E+00		3200
98.0	38	3.102E-08	1.861E-07		3200
* 99.0	14	1.143E-08	6.854E-08		3200
100.0	19	3.156E-08	1.894E-07		3200
* 101.0	9	7.618E-09	4.571E-08		3200
102.0	11	9.250E-09	5.550E-08		3200
* 103.0	18	1.520E-08	9.142E-08		3200
104.0	88	7.128E-08	4.277E-07		3200
* 105.0	23	1.905E-08	1.143E-07		3200
106.0	84	6.802E-08	4.083E-07		3200
* 107.0	42	3.428E-08	2.057E-07		3200
108.0	120	9.688E-08	5.811E-07		3200
* 109.0	68	5.550E-08	3.330E-07		3200
110.0	85	6.911E-08	4.146E-07		3200
* 111.0	12	9.795E-09	5.677E-08		3200
112.0	47	3.809E-08	2.285E-07		3200
* 113.0	24	1.954E-08	1.175E-07		3200
114.0	55	4.462E-08	2.677E-07		3200
D 115.0	13	1.088E-08	6.530E-08		3200
116.0	56	4.516E-08	2.710E-07		3200
* 117.0	33	2.721E-08	1.632E-07		3200
118.0	139	1.126E-07	6.758E-07		3200
* 119.0	22	1.850E-08	1.110E-07		3200
120.0	80	6.530E-08	3.918E-07		3200
* 121.0	37	3.007E-08	1.828E-07		3200
122.0	132	1.067E-07	6.399E-07		3200
* 123.0	76	6.149E-08	3.689E-07		3200
124.0	109	8.815E-08	5.289E-07		3200
* 125.0	7	5.986E-09	3.591E-08		3200
126.0	9	7.618E-09	4.571E-08		3200

CROSS-HAD INTEGRATED= 6.771E-05 SEC/SEC.M 4.063E-04 1/M

TOWER DATA FALLING...

TEST F145 OCTOBER 12, 1960 1200 TO 1317 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M AHC W= 6.0 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	FU/D 1/SEC.M	DISTANCE METERS
98.0	1.5	0	0.000E+00	0.000E+00	3200
98.0	3.1	8	7.158E-09	4.294E-08	3200
98.0	6.2	4	3.578E-09	2.147E-08	3200
98.0	9.3	11	8.945E-09	5.367E-08	3200
98.0	12.4	11	8.945E-09	5.367E-08	3200
98.0	15.5	7	5.725E-09	3.435E-08	3200
98.0	18.6	11	8.945E-09	5.367E-08	3200
98.0	21.7	4	3.934E-09	2.361E-08	3200
98.0	24.8	15	1.271E-08	7.627E-08	3200
98.0	31.0	8	7.215E-09	4.329E-08	3200
98.0	37.2	4	3.779E-09	2.268E-08	3200
98.0	43.4	5	4.466E-09	2.688E-08	3200
98.0	49.6	20	1.634E-08	9.805E-08	3200
98.0	55.8	8	6.475E-09	3.885E-08	3200
98.0	62.0	3	3.083E-09	1.850E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. ² X10E+6	E/O SEC/CM. ²	EU/O 1/SC. ²	DISTANCE METERS
106.0	1.5	37	3.006E-08	1.803E-07	3200
106.0	3.1	46	3.757E-08	2.254E-07	3200
106.0	6.2	55	4.473E-08	2.684E-07	3200
106.0	9.3	67	5.439E-08	3.263E-07	3200
106.0	12.4	54	4.365E-08	2.619E-07	3200
106.0	15.5	66	5.367E-08	3.220E-07	3200
106.0	18.6	69	5.617E-08	3.370E-07	3200
106.0	21.7	80	6.512E-08	3.907E-07	3200
106.0	24.8	68	5.497E-08	3.298E-07	3200
106.0	31.0	101	8.177E-08	4.906E-07	3200
106.0	37.2	109	8.864E-08	5.319E-07	3200
106.0	43.4	113	9.139E-08	5.483E-07	3200
106.0	49.6	44	3.577E-08	2.146E-07	3200
106.0	55.8	58	4.687E-08	2.812E-07	3200
106.0	62.0	5	4.625E-09	2.775E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. ² X10E+6	E/O SEC/CM. ²	EU/O 1/SC. ²	DISTANCE METERS
114.0	1.5	55	4.437E-08	2.662E-07	3200
114.0	3.1	24	2.004E-08	1.202E-07	3200
114.0	6.2	49	3.972E-08	2.383E-07	3200
114.0	9.3	23	1.894E-08	1.138E-07	3200
114.0	12.4	36	2.970E-08	1.782E-07	3200
114.0	15.5	31	2.574E-08	1.546E-07	3200
114.0	18.6	38	3.113E-08	1.868E-07	3200
114.0	21.7	27	2.218E-08	1.331E-07	3200
114.0	24.8	38	3.127E-08	1.876E-07	3200
114.0	31.0	39	3.161E-08	1.897E-07	3200
114.0	37.2	26	2.165E-08	1.299E-07	3200
114.0	43.4	33	2.688E-08	1.608E-07	3200
114.0	49.6	32	2.652E-08	1.591E-07	3200
114.0	55.8	29	2.405E-08	1.443E-07	3200
Z 114.0	62.0	36	2.929E-08	1.758E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. ² X10E+6	E/O SEC/CM. ²	EU/O 1/SC. ²	DISTANCE METERS
Z 122.0	1.5	42	3.435E-08	2.061E-07	3200
Z 122.0	3.1	126	1.028E-07	6.118E-07	3200
Z 122.0	6.2	96	7.800E-08	4.680E-07	3200
Z 122.0	9.3	93	7.514E-08	4.504E-07	3200
Z 122.0	12.4	123	9.947E-08	5.968E-07	3200
Z 122.0	15.5	185	1.492E-07	8.952E-07	3200
Z 122.0	18.6	148	1.199E-07	7.192E-07	3200
Z 122.0	21.7	144	1.166E-07	6.999E-07	3200
Z 122.0	24.8	72	5.841E-08	3.504E-07	3200
Z 122.0	31.0	120	9.758E-08	5.855E-07	3200
Z 122.0	37.2	127	1.027E-07	6.164E-07	3200
Z 122.0	43.4	59	4.810E-08	2.886E-07	3200
Z 122.0	49.6	95	7.678E-08	4.607E-07	3200
Z 122.0	55.8	83	6.722E-08	4.033E-07	3200
Z 122.0	62.0	71	5.764E-08	3.460E-07	3200

TEST F145 OFFICER 12, 1960 1240 TO 1317 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
120000 ABC SAMPLER HT 1.5M U= 6.0 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. ² X10E+6	E/O SEC/CM. ²	EU/O 1/SC. ²	DISTANCE METERS
105.0	0	0.000E+00	0.000E+00	12800
S 110.0	16	1.355E-08	8.130E-08	12800
115.0	12	1.046E-08	6.036E-08	12800
120.0	10	8.213E-09	4.928E-08	12800

GROSS AND INTEGRATED: 3.555E-05 2.133E-04
SEC/SC.² 1/M

30-SERIES EXPERIMENT: 46 (FT-46)
GROUND LEVEL AND TOWER SAMPLING 200-12800 M ARCS. EVERY OTHER
GROUND LEVEL SAMPLER WAS ROTATED 180 DEGREES, SO AS TO FACE AWAY
FROM THE TRACER SOURCE.

TEST F146 OCTOBER 18, 1960 0523 TO 0613 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 1.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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* 80.0	75	1.635E-08	5.816E-08	200
82.0	99	1.024E-07	1.639E-07	200
* 84.0	86	8.923E-08	1.428E-07	200
86.0	228	2.304E-07	3.754E-07	200
* 88.0	279	2.875E-07	4.600E-07	200
90.0	3	3.305E-09	5.288E-09	200
* 92.0	3	3.305E-09	5.288E-09	200
94.0	9	9.910E-09	1.586E-08	200
* 96.0	0	0.000E+00	0.000E+00	200
98.0	45	4.957E-08	7.932E-08	200
* 100.0	41	4.296E-08	6.874E-08	200
102.0	6	6.610E-09	1.058E-08	200
* 104.0	138	1.421E-07	2.274E-07	200
106.0	1207	1.243E-06	1.988E-06	200
* 108.0	3575	3.678E-06	5.885E-06	200
110.0	15194	1.543E-05	2.501E-05	200
* 112.0	21551	2.217E-05	3.548E-05	200
114.0	59954	6.168E-05	9.869E-05	200
* 116.0	59135	6.084E-05	9.734E-05	200
118.0	183733	1.879E-04	2.366E-04	200
* 120.0	140733	1.489E-04	2.382E-04	200
122.0	295781	3.043E-04	4.869E-04	200
* 124.0	175660	1.807E-04	2.892E-04	200
126.0	468425	4.819E-04	7.711E-04	200
* 128.0	406280	4.180E-04	6.688E-04	200
130.0	652163	6.730E-04	1.077E-03	200
* 132.0	463373	4.767E-04	7.628E-04	200
134.0	833294	8.573E-04	1.372E-03	200
* 136.0	580457	5.972E-04	9.555E-04	200
138.0	657469	6.764E-04	1.082E-03	200
* 140.0	319541	3.195E-04	5.112E-04	200
142.0	360781	3.753E-04	6.005E-04	200
* 144.0	180974	1.862E-04	2.979E-04	200
146.0	180100	1.853E-04	2.965E-04	200
* 148.0	47837	4.922E-05	7.874E-05	200
150.0	13684	1.408E-05	2.253E-05	200
* 152.0	420	4.329E-07	6.927E-07	200
154.0	80	8.262E-08	1.322E-07	200
* 156.0	89	9.254E-08	1.481E-07	200
158.0	35	3.635E-08	5.816E-08	200

CROSSWIND INTEGRATED= 4.369E-02
SEC/30.M 1/M

TEST F146 OCTOBER 18, 1960 0523 TO 0613 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 1.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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* 116.0	0	0.000E+00	0.000E+00	800
118.0	229	2.366E-07	3.785E-07	800
* 120.0	4744	4.882E-06	7.810E-06	800
122.0	23920	2.461E-05	3.937E-05	800
* 124.0	25386	2.612E-05	4.179E-05	800
126.0	48909	5.032E-05	8.051E-05	800
* 128.0	52950	4.110E-05	6.576E-05	800
130.0	71660	7.373E-05	1.180E-04	800
* 132.0	54576	5.615E-05	8.984E-05	800
134.0	101702	1.086E-04	1.674E-04	800
* 136.0	55863	5.747E-05	9.196E-05	800
138.0	90180	9.278E-05	1.484E-04	800
* 140.0	78251	8.051E-05	1.288E-04	800
142.0	34705	3.571E-05	5.713E-05	800
* 144.0	5499	5.658E-06	9.053E-06	800
146.0	935	9.622E-07	1.540E-06	800
* 148.0	0	0.000E+00	0.000E+00	800

CROSSWIND INTEGRATED= 1.829E-02
SEC/30.M 1/M

TEST F146 OCTOBER 18, 1960 0523 TO 0613 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 1.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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122.0	47	4.859E-08	7.774E-08	1600
* 123.0	2767	2.847E-08	4.555E-08	1600
124.0	4212	4.333E-08	6.933E-08	1600
* 125.0	3840	3.951E-08	6.322E-08	1600
126.0	8681	8.932E-08	1.429E-07	1600
* 127.0	12324	1.268E-07	2.029E-07	1600
128.0	22869	2.353E-07	3.765E-07	1600
* 129.0	14716	1.514E-07	2.422E-07	1600
130.0	14012	1.442E-07	2.307E-07	1600
* 131.0	14482	1.490E-07	2.384E-07	1600
132.0	23260	2.393E-07	3.829E-07	1600
* 133.0	20607	2.120E-07	3.392E-07	1600
134.0	29703	3.056E-07	4.889E-07	1600
* 135.0	19398	1.996E-07	3.193E-07	1600
136.0	18649	1.919E-07	3.070E-07	1600
* 137.0	7239	7.488E-08	1.192E-07	1600
138.0	220	1.000E-08	1.600E-08	1600

CROSSWIND INTEGRATED= 6.508E-03
SEC/30.M 1/M

TEST FT46 OCTOBER 18, 1960 0523 TO 0613 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 1.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SG.M	DISTANCE METERS
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* 119.0	1	1.998E-09	3.196E-09	3200
120.0	229	2.357E-07	3.772E-07	3200
* 121.0	1198	1.233E-06	1.972E-06	3200
122.0	3333	3.430E-06	5.488E-06	3200
* 123.0	3345	3.442E-06	5.507E-06	3200
124.0	4487	4.617E-06	7.327E-06	3200
* 125.0	1981	2.039E-06	3.262E-06	3200
126.0	1477	1.520E-06	2.432E-06	3200
* 127.0	1822	1.875E-06	3.000E-06	3200
128.0	4709	4.845E-06	7.753E-06	3200
* 129.0	5705	5.870E-06	9.392E-06	3200
130.0	6604	6.795E-06	1.087E-05	3200
* 131.0	3999	4.115E-06	6.584E-06	3200
132.0	3935	4.049E-06	6.479E-06	3200
* 133.0	4331	4.456E-06	7.129E-06	3200
134.0	4553	4.685E-06	7.495E-06	3200
* 135.0	2930	3.015E-06	4.823E-06	3200
136.0	2281	2.347E-06	3.756E-06	3200
* 137.0	1018	1.048E-06	1.676E-06	3200
138.0	1050	1.081E-06	1.729E-06	3200
* 139.0	506	5.623E-07	8.998E-07	3200
140.0	703	7.242E-07	1.159E-06	3200
* 141.0	387	3.985E-07	6.377E-07	3200
142.0	576	5.933E-07	9.493E-07	3200
* 143.0	162	1.668E-07	2.669E-07	3200
144.0	107	1.109E-07	1.774E-07	3200
* 145.0	25	2.597E-08	4.155E-08	3200
146.0	18	1.898E-08	3.036E-08	3200

CROSSWIND INTEGRATED= 3.535E-03 5.656E-03
SEC/SG.M 1/M

TEST FT46 OCTOBER 18, 1960 0523 TO 0613 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
12800M ARC SAMPLER HT 1.5M U= 1.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SG.M	DISTANCE METERS
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5 110.0	17	1.845E-08	2.951E-08	12800
3 115.0	0	0.000E+00	0.000E+00	12800
4 120.0	6	6.456E-09	1.033E-08	12800
125.0	18	1.937E-08	3.099E-08	12800
130.0	112	1.159E-07	1.854E-07	12800

CROSSWIND INTEGRATED= 1.789E-04 2.863E-04
SEC/SG.M 1/M

30-SERIES EXPERIMENT: 47 (FT-47)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS

TEST FT47 JANUARY 18, 1961 1121 TO 1151 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M G= 3.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/O 1/SG.M	DISTANCE METERS
102.0	4	3.518E-09	1.267E-08	200
104.0	22	1.759E-08	6.333E-08	200
106.0	417	3.272E-07	1.178E-06	200
108.0	1689	1.481E-06	5.332E-06	200
110.0	3665	2.873E-06	1.034E-05	200
T 112.0	9371	7.344E-06	2.644E-05	200
114.0	23923	1.875E-05	6.749E-05	200
116.0	36452	2.857E-05	1.028E-04	200
118.0	48219	3.779E-05	1.360E-04	200
120.0	43767	3.430E-05	1.235E-04	200
122.0	47287	3.706E-05	1.334E-04	200
124.0	65724	5.151E-05	1.854E-04	200
126.0	68366	5.358E-05	1.929E-04	200
130.0	97957	7.677E-05	2.764E-04	200
132.0	128363	1.006E-04	3.622E-04	200
134.0	157285	1.233E-04	4.438E-04	200
136.0	126109	9.883E-05	3.558E-04	200
138.0	149139	1.169E-04	4.208E-04	200
140.0	133137	1.043E-04	3.756E-04	200
142.0	134926	1.057E-04	3.807E-04	200
144.0	122125	9.571E-05	3.446E-04	200
146.0	113663	8.908E-05	3.207E-04	200
148.0	78579	6.158E-05	2.217E-04	200
150.0	71235	5.583E-05	2.010E-04	200
152.0	62609	4.907E-05	1.766E-04	200
154.0	50935	3.992E-05	1.437E-04	200
156.0	36315	2.846E-05	1.025E-04	200
158.0	21952	1.720E-05	6.193E-05	200

CROSSWIND INTEGRATED= 1.049E-02 SEC/SU.M 3.775E-02 1/M

TOWER DATA FOLLOW....

TEST FT47 JANUARY 18, 1961 1121 TO 1151 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC G= 3.6 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/O 1/SG.M	DISTANCE METERS
98.0	0.7	35	2.769E-08	9.969E-08	200
98.0	1.4	3	2.806E-09	1.010E-08	200
98.0	2.7	3	2.806E-09	1.010E-08	200
98.0	4.1	1	1.403E-09	5.051E-09	200
98.0	5.4	14	1.122E-08	4.041E-08	200
98.0	6.8	1	1.403E-09	5.051E-09	200
98.0	8.1	5	4.209E-09	1.515E-08	200
98.0	9.4	5	4.209E-09	1.515E-08	200
98.0	10.8	5	4.209E-09	1.515E-08	200
98.0	13.5	10	8.418E-09	3.030E-08	200
98.0	16.2	0	0.000E+00	0.000E+00	200
98.0	18.9	0	0.000E+00	0.000E+00	200
98.0	21.6	5	4.209E-09	1.515E-08	200
98.0	24.3	1	1.403E-09	5.051E-09	200
98.0	27.0	0	0.000E+00	0.000E+00	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/O 1/SG.M	DISTANCE METERS
106.0	0.7	400	3.449E-07	1.242E-06	200
S 106.0	1.4	254	1.992E-07	7.172E-07	200
106.0	2.7	216	1.699E-07	6.111E-07	200
106.0	4.1	157	1.235E-07	4.445E-07	200
106.0	5.4	127	9.961E-08	3.586E-07	200
106.0	6.8	44	3.507E-08	1.263E-07	200
106.0	8.1	32	2.525E-08	9.091E-08	200
106.0	9.4	19	1.543E-08	5.556E-08	200
106.0	10.8	60	4.770E-08	1.717E-07	200
106.0	13.5	26	2.104E-08	7.576E-08	200
106.0	16.2	44	3.507E-08	1.263E-07	200
106.0	18.9	50	3.928E-08	1.414E-07	200
106.0	21.6	0	0.000E+00	0.000E+00	200
106.0	24.3	0	0.000E+00	0.000E+00	200
106.0	27.0	1	1.403E-09	5.051E-09	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/O 1/SG.M	DISTANCE METERS
114.0	0.7	25210	1.974E-05	7.113E-05	200
114.0	1.4	19624	1.538E-05	5.537E-05	200
114.0	2.7	20999	1.646E-05	5.925E-05	200
114.0	4.1	20825	1.632E-05	5.876E-05	200
114.0	5.4	22501	1.763E-05	6.348E-05	200
114.0	6.8	22957	1.799E-05	6.477E-05	200
114.0	8.1	26135	2.048E-05	7.374E-05	200
114.0	9.4	16586	1.300E-05	4.680E-05	200
114.0	10.8	13517	1.059E-05	3.814E-05	200
114.0	13.5	13347	1.046E-05	3.766E-05	200
114.0	16.2	9368	7.342E-06	2.643E-05	200
114.0	18.9	8458	6.629E-06	2.386E-05	200
114.0	21.6	6412	5.025E-06	1.809E-05	200
114.0	24.3	4609	3.613E-06	1.301E-05	200
114.0	27.0	6924	3.460E-06	1.389E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/G SEC/CM. X10E+6	FU/G 1/SG. X10E+6	DISTANCE METERS
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130.0	0.7	150576	1.180E-04	4.248E-04	200
130.0	1.4	79533	6.233E-05	2.244E-04	200
130.0	2.7	86325	6.765E-05	2.436E-04	200
130.0	4.1	82759	6.486E-05	2.335E-04	200
130.0	5.4	75919	5.950E-05	2.142E-04	200
130.0	6.8	91074	7.163E-05	2.579E-04	200
130.0	8.1	96178	7.538E-05	2.714E-04	200
130.0	9.4	98828	7.745E-05	2.788E-04	200
130.0	10.8	76842	6.022E-05	2.168E-04	200
130.0	13.5	61479	4.818E-05	1.735E-04	200
130.0	16.2	42302	3.322E-05	1.196E-04	200
130.0	18.9	36804	2.880E-05	1.038E-04	200
130.0	21.6	38473	3.015E-05	1.085E-04	200
130.0	24.3	26711	2.093E-05	7.536E-05	200
130.0	27.0	23506	1.845E-05	6.603E-05	200

TEST FT47 JANUARY 18, 1961 1121 TO 1151 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/G SEC/CM. X10E+6	FU/G 1/SG. X10E+6	DISTANCE METERS
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110.0	6	5.105E-09	1.838E-08	800
112.0	0	0.000E+00	0.000E+00	800
114.0	0	0.000E+00	0.000E+00	800
116.0	17	1.361E-08	4.901E-08	800
118.0	293	2.297E-07	8.270E-07	800
120.0	879	6.892E-07	2.481E-06	800
122.0	1111	8.712E-07	3.136E-06	800
124.0	1200	9.410E-07	3.388E-06	800
126.0	1511	1.184E-06	4.264E-06	800
128.0	2101	1.647E-06	5.930E-06	800
130.0	2913	2.284E-06	8.221E-06	800
132.0	2329	1.826E-06	6.573E-06	800
D 134.0	2414	1.892E-06	6.812E-06	800
D 136.0	2675	2.096E-06	7.547E-06	800
D 138.0	1146	9.002E-07	3.241E-06	800
D 140.0	916	7.181E-07	2.585E-06	800
142.0	3862	3.027E-06	1.090E-05	800
144.0	2553	2.001E-06	7.204E-06	800
146.0	2394	1.877E-06	6.757E-06	800
148.0	1202	9.427E-07	3.394E-06	800
150.0	742	5.820E-07	2.095E-06	800
152.0	1231	9.648E-07	3.473E-06	800
154.0	1057	8.287E-07	2.983E-06	800
156.0	1113	8.729E-07	3.143E-06	800
158.0	1865	1.482E-06	5.262E-06	800
160.0	473	3.710E-07	1.335E-06	800

CROSSWIND INTEGRATED= 7.882E-04 SEC/SG.
2.838E-03 1/M

TOWER DATA FOLLOW...

TEST FT47 JANUARY 18, 1961 1121 TO 1151 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC U= 3.6 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/G SEC/CM. X10E+6	FU/G 1/SG. X10E+6	DISTANCE METERS
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122.0	1.0	805	6.311E-07	2.272E-06	800
122.0	2.1	1080	8.469E-07	3.049E-06	800
122.0	4.2	1813	1.107E-06	3.987E-06	800
122.0	6.3	1021	8.007E-07	2.883E-06	800
122.0	8.4	1212	9.500E-07	3.420E-06	800
122.0	10.5	604	5.049E-07	1.817E-06	800
122.0	12.6	1021	8.007E-07	2.883E-06	800
122.0	14.7	914	7.166E-07	2.580E-06	800
122.0	16.8	983	7.709E-07	2.775E-06	800
122.0	21.0	1229	9.636E-07	3.469E-06	800
122.0	25.2	1122	8.798E-07	3.166E-06	800
122.0	29.4	1096	8.591E-07	3.093E-06	800
122.0	33.6	1113	8.726E-07	3.141E-06	800
122.0	37.8	1000	7.844E-07	2.824E-06	800
122.0	42.0	1089	1.167E-06	4.202E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/G SEC/CM. X10E+6	FU/G 1/SG. X10E+6	DISTANCE METERS
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130.0	1.0	1577	1.236E-06	4.451E-06	800
130.0	2.1	1998	1.566E-06	5.638E-06	800
130.0	4.2	1963	1.535E-06	5.540E-06	800
130.0	6.3	2251	1.764E-06	6.351E-06	800
130.0	8.4	2165	1.854E-06	6.674E-06	800
130.0	10.5	2519	1.975E-06	7.109E-06	800
130.0	12.6	2500	1.991E-06	7.167E-06	800
130.0	14.7	2275	1.783E-06	6.920E-06	800
130.0	16.8	2741	2.148E-06	7.734E-06	800
130.0	21.0	2739	2.147E-06	7.729E-06	800
130.0	25.2	2633	2.064E-06	7.431E-06	800
130.0	29.4	3117	2.859E-06	8.853E-06	800
F 130.0	33.6	2696	2.113E-06	7.607E-06	800
130.0	37.8	2370	1.858E-06	6.688E-06	800
130.0	42.0	2197	1.722E-06	6.200E-06	800

TEST FT47 JANUARY 18, 1961 1121 TO 1151 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/G SEC/CM. X10E+6	FU/G 1/SG. X10E+6	DISTANCE METERS
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120.0	0	0.000E+00	0.000E+00	1600
121.0	68	5.401E-08	1.944E-07	1600
122.0	79	6.192E-08	2.229E-07	1600
123.0	159	1.252E-07	4.505E-07	1600
124.0	378	2.964E-07	1.067E-06	1600
125.0	346	2.714E-07	9.770E-07	1600
126.0	492	3.860E-07	1.390E-06	1600
127.0	674	5.283E-07	1.902E-06	1600
128.0	707	5.546E-07	1.997E-06	1600
129.0	695	5.454E-07	1.963E-06	1600
130.0	406	3.188E-07	1.148E-06	1600
131.0	445	3.491E-07	1.257E-06	1600
132.0	684	5.362E-07	1.930E-06	1600
133.0	906	7.101E-07	2.556E-06	1600
134.0	753	5.902E-07	2.125E-06	1600
135.0	857	6.719E-07	2.419E-06	1600
136.0	811	6.363E-07	2.291E-06	1600
137.0	1141	8.945E-07	3.220E-06	1600
138.0	995	7.799E-07	2.808E-06	1600

CROSSWIND INTEGRATED= 2.321E-04 SEC/SG.
8.354E-04 1/M

TOWER DATA FOLLOW...
 TEST FT47 JANUARY 18, 1961 1121 TO 1151 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 3200M ARC SAMPLER #1 1.5M U= 3.6 M/SEC AT 2M

TEST FT47 JANUARY 18, 1961 1121 TO 1151 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 3200M ARC SAMPLER #1 1.5M U= 3.6 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SG _M	DISTANCE METERS
122.0	1.5	47	3.369E-08	1.213E-07	1600
122.0	3.1	97	7.602E-08	2.739E-07	1600
122.0	6.2	63	4.999E-08	1.800E-07	1600
122.0	9.3	76	5.977E-08	2.152E-07	1600
122.0	12.4	63	4.999E-08	1.800E-07	1600
122.0	15.5	99	7.825E-08	2.817E-07	1600
122.0	18.6	76	2.065E-08	7.433E-08	1600
122.0	21.7	49	3.912E-08	1.408E-07	1600
122.0	24.8	97	7.602E-08	2.739E-07	1600
122.0	31.0	66	5.217E-08	1.878E-07	1600
122.0	37.2	92	7.281E-08	2.621E-07	1600
122.0	43.4	94	7.390E-08	2.660E-07	1600
122.0	49.6	157	1.233E-07	4.400E-07	1600
122.0	55.8	182	1.427E-07	5.137E-07	1600
122.0	62.0	148	1.162E-07	4.183E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SG _M	DISTANCE METERS
130.0	1.5	237	1.858E-07	6.690E-07	1600
130.0	3.1	464	3.601E-07	1.311E-06	1600
130.0	6.2	538	4.217E-07	1.518E-06	1600
130.0	9.3	357	2.808E-07	1.009E-06	1600
130.0	12.4	619	4.858E-07	1.749E-06	1600
130.0	15.5	710	5.727E-07	2.062E-06	1600
130.0	18.6	583	4.575E-07	1.607E-06	1600
130.0	21.7	640	5.021E-07	1.808E-06	1600
130.0	24.8	650	5.097E-07	1.835E-06	1600
130.0	31.0	678	5.314E-07	1.913E-06	1600
130.0	37.2	708	5.553E-07	1.999E-06	1600
130.0	43.4	758	5.945E-07	2.140E-06	1600
130.0	49.6	775	6.075E-07	2.187E-06	1600
130.0	55.8	410	3.221E-07	1.160E-06	1600
130.0	62.0	578	4.536E-07	1.633E-06	1600

TEST FT47 JANUARY 18, 1961 1121 TO 1151 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 3200M ARC SAMPLER #1 1.5M U= 3.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SG _M	DISTANCE METERS
124.0	3	2.905E-09	1.046E-08	3200
125.0	3	2.905E-09	1.046E-08	3200
126.0	25	1.961E-08	7.060E-08	3200
127.0	8	6.537E-09	2.353E-08	3200
128.0	21	1.670E-08	6.014E-08	3200
129.0	63	5.011E-08	1.804E-07	3200
130.0	84	6.609E-08	2.379E-07	3200
131.0	115	9.079E-08	3.266E-07	3200
132.0	178	1.402E-07	5.046E-07	3200
133.0	239	1.874E-07	6.746E-07	3200
134.0	243	1.910E-07	6.876E-07	3200
135.0	206	1.620E-07	5.831E-07	3200
136.0	324	2.542E-07	9.151E-07	3200
137.0	362	2.840E-07	1.022E-06	3200
138.0	254	1.997E-07	7.190E-07	3200
139.0	391	3.065E-07	1.103E-06	3200
140.0	261	2.048E-07	7.373E-07	3200
141.0	227	1.787E-07	6.432E-07	3200
142.0	238	1.867E-07	6.720E-07	3200
143.0	212	1.663E-07	5.986E-07	3200
144.0	101	7.989E-08	2.876E-07	3200
145.0	113	8.861E-08	3.190E-07	3200
146.0	60	4.721E-08	1.700E-07	3200
147.0	108	8.498E-08	3.059E-07	3200
148.0	4	3.631E-09	1.307E-08	3200
149.0	13	1.089E-08	3.922E-08	3200
150.0	1	1.453E-09	5.229E-09	3200
151.0	21	1.670E-08	6.014E-08	3200
152.0	10	7.989E-09	2.876E-08	3200
153.0	12	1.017E-08	3.660E-08	3200
154.0	0	0.000E+00	0.000E+00	3200
155.0	4	3.631E-09	1.307E-08	3200
156.0	3	2.905E-09	1.046E-08	3200
157.0	2	2.179E-09	7.844E-09	3200
158.0	0	7.263E-10	2.615E-09	3200

CROSSWIND INTEGRATED= 1.719E-04
 SEC/SG_M 1/M

TOWER DATA FOLLOW...
 TEST FT47 JANUARY 18, 1961 1121 TO 1151 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 3200M ARC SAMPLER #1 1.5M U= 3.6 M/SEC AT 2M

TEST FT47 JANUARY 18, 1961 1121 TO 1151 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 3200M ARC SAMPLER #1 1.5M U= 3.6 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SG _M	DISTANCE METERS
130.0	1.5	42	3.303E-08	1.189E-07	3200
130.0	3.1	43	3.433E-08	1.236E-07	3200
130.0	6.2	89	6.995E-08	2.518E-07	3200
130.0	9.3	84	3.822E-08	1.376E-07	3200
130.0	12.4	66	5.182E-08	1.865E-07	3200
130.0	15.5	56	4.404E-08	1.586E-07	3200
130.0	18.6	100	7.902E-08	2.805E-07	3200
130.0	21.7	43	4.987E-08	1.795E-07	3200
130.0	24.8	78	6.153E-08	2.215E-07	3200
130.0	31.0	103	8.096E-08	2.915E-07	3200
130.0	37.2	99	7.773E-08	2.798E-07	3200
130.0	43.4	76	5.959E-08	2.145E-07	3200
130.0	49.6	122	9.578E-08	3.448E-07	3200
130.0	55.8	115	9.081E-08	3.269E-07	3200
130.0	62.0	80	6.282E-08	2.261E-07	3200

30-SERIES EXPERIMENT: 48 (FT-48)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS. MANY OF THE
FILTERS ON THE TOWERS SHOWED SIGNS OF WEATHERING.

TEST FT48 FEBRUARY 17, 1961 1010 TO 1040 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 2.9 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
90.0	7	4.462E-09	1.294E-08	200	
92.0	7	4.462E-09	1.294E-08	200	
94.0	0	0.000E+00	0.000E+00	200	
96.0	44	2.528E-08	7.332E-08	200	
98.0	20	1.190E-08	3.450E-08	200	
100.0	73	4.164E-08	1.208E-07	200	
102.0	447	2.543E-07	7.375E-07	200	
104.0	6658	3.743E-06	1.097E-05	200	
106.0	11469	6.517E-06	1.890E-05	200	
108.0	6527	3.709E-06	1.076E-05	200	
110.0	11021	6.262E-06	1.816E-05	200	
112.0	41925	2.382E-05	6.908E-05	200	
114.0	44603	2.534E-05	7.349E-05	200	
116.0	70720	4.018E-05	1.165E-04	200	
118.0	89120	5.064E-05	1.468E-04	200	
120.0	105995	6.022E-05	1.747E-04	200	
122.0	88322	5.018E-05	1.455E-04	200	
124.0	139123	7.905E-05	2.292E-04	200	
126.0	128970	7.328E-05	2.125E-04	200	
128.0	183669	1.044E-04	3.026E-04	200	
130.0	161953	9.202E-05	2.669E-04	200	
132.0	192069	1.091E-04	3.165E-04	200	
134.0	218863	1.244E-04	3.606E-04	200	
136.0	96546	5.406E-05	1.591E-04	200	
138.0	188535	1.071E-04	3.107E-04	200	
140.0	136459	7.753E-05	2.248E-04	200	
142.0	77109	4.381E-05	1.271E-04	200	
144.0	119391	6.744E-05	1.967E-04	200	
146.0	103895	5.903E-05	1.712E-04	200	
148.0	86600	4.920E-05	1.427E-04	200	
150.0	77915	4.427E-05	1.284E-04	200	
152.0	62155	3.532E-05	1.024E-04	200	
154.0	47058	2.674E-05	7.754E-05	200	
156.0	48854	2.776E-05	8.050E-05	200	
158.0	17316	9.839E-06	2.853E-05	200	

CROSSWIND INTEGRATED* 1.017E-02 2.949E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST FT48 FEBRUARY 17, 1961 1010 TO 1040 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 2.9 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
90.0	0.7	9	5.475E-09	1.588E-08	200
92.0	1.4	0	0.000E+00	0.000E+00	200
94.0	2.7	41	2.363E-08	6.853E-08	200
96.0	4.1	116	6.592E-08	1.912E-07	200
98.0	5.4	50	2.461E-08	6.295E-08	200
99.0	6.8	39	2.239E-08	6.492E-08	200
99.0	8.1	15	8.706E-09	2.525E-08	200
99.0	9.4	59	3.359E-08	9.738E-08	200
99.0	10.8	48	2.736E-08	7.935E-08	200
99.0	13.5	35	1.990E-08	5.771E-08	200
99.0	16.2	17	9.950E-09	2.885E-08	200
99.0	18.9	0	0.000E+00	0.000E+00	200
99.0	21.6	41	2.363E-08	6.853E-08	200
99.0	24.3	34	1.941E-08	5.628E-08	200
99.0	27.0	40	2.304E-08	6.483E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
106.0	0.7	12900	7.330E-06	2.126E-05	200
106.0	1.4	8234	4.679E-06	1.357E-05	200
106.0	2.7	5529	3.142E-06	9.111E-06	200
106.0	4.1	7549	4.290E-06	1.248E-05	200
106.0	5.4	10252	5.825E-06	1.689E-05	200
106.0	6.8	10241	5.819E-06	1.688E-05	200
106.0	8.1	7474	4.531E-06	1.314E-05	200
106.0	9.4	9202	5.229E-06	1.516E-05	200
106.0	10.8	10611	6.025E-06	1.749E-05	200
106.0	13.5	13818	7.851E-06	2.277E-05	200
106.0	16.2	15228	8.652E-06	2.509E-05	200
106.0	18.9	14424	8.196E-06	2.377E-05	200
106.0	21.6	2207	1.251E-06	3.628E-06	200
106.0	24.3	4979	2.830E-06	8.206E-06	200
106.0	27.0	8026	4.560E-06	1.322E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
114.0	0.7	44266	2.629E-05	7.623E-05	200
114.0	1.4	39914	2.262E-05	6.560E-05	200
114.0	2.7	26695	1.517E-05	4.399E-05	200
114.0	4.1	15611	8.870E-06	2.572E-05	200
114.0	5.4	27109	1.540E-05	4.467E-05	200
114.0	6.8	28591	1.629E-05	4.711E-05	200
114.0	8.1	19751	1.134E-05	3.288E-05	200
114.0	9.4	20183	1.147E-05	3.326E-05	200
114.0	10.8	17277	9.817E-06	2.847E-05	200
114.0	13.5	11640	6.284E-06	1.822E-05	200
114.0	16.2	21642	1.230E-05	3.568E-05	200
114.0	18.9	9425	9.355E-06	1.553E-05	200
114.0	21.6	7702	4.377E-06	1.269E-05	200
114.0	24.3	6896	3.919E-06	1.136E-05	200
114.0	27.0	12017	6.828E-06	1.980E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
122.0	0.7	106773	6.067E-05	1.759E-04	200
122.0	1.4	76174	4.328E-05	1.255E-04	200
122.0	2.7	33420	1.899E-05	5.507E-05	200
122.0	4.1	8436	4.793E-06	1.390E-05	200
122.0	5.4	34475	1.959E-05	5.681E-05	200
122.0	6.8	28904	1.642E-05	4.763E-05	200
122.0	8.1	34899	1.983E-05	5.751E-05	200
122.0	9.4	30277	1.720E-05	4.989E-05	200
122.0	10.8	20324	1.155E-05	3.349E-05	200
122.0	13.5	16307	9.266E-06	2.687E-05	200
122.0	16.2	24007	1.364E-05	3.956E-05	200
122.0	18.9	16880	9.591E-06	2.782E-05	200
122.0	21.6	16911	9.609E-06	2.787E-05	200
122.0	24.3	11772	6.686E-06	1.940E-05	200
122.0	27.0	12600	7.159E-06	2.076E-05	200

AZIMUTH HEIGHT EXPOSURE E/G FU/G DISTANCE TOWER DATA FOLLOW...
 DEGREES METERS GM-SEC/CM SEC/CM 1/50,M METERS

130.0	0.7	183294	1.041E-04	3.020E-04	200
130.0	1.0	89300	5.074E-05	1.471E-04	200
130.0	2.7	93685	5.323E-05	1.584E-04	200
130.0	4.1	84807	4.935E-05	1.431E-04	200
130.0	5.4	90109	5.352E-05	1.552E-04	200
130.0	6.8	92161	5.234E-05	1.519E-04	200
130.0	8.1	111507	6.301E-05	1.839E-04	200
130.0	9.4	103163	5.862E-05	1.700E-04	200
130.0	10.8	71459	4.060E-05	1.177E-04	200
130.0	13.5	53024	3.013E-05	8.737E-05	200
2 130.0	16.2	50351	2.861E-05	8.297E-05	200
T 130.0	18.9	12450	7.074E-06	2.052E-05	200
130.0	21.6	52678	2.993E-05	8.680E-05	200
130.0	24.3	34851	1.980E-05	5.743E-05	200
130.0	27.0	27988	1.590E-05	4.612E-05	200

TEST F14R FEBRUARY 17, 1961 1410 TO 1440 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 ROOM ARC U= 2.9 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM	E/G SEC/CM	FU/G 1/50,M	DISTANCE METERS
106.0	1.0	35	2.045E-08	5.931E-08	800
106.0	2.1	40	2.284E-08	6.629E-08	800
106.0	4.2	19	6.015E-09	1.744E-08	800
106.0	6.3	21	1.203E-08	3.489E-08	800
106.0	8.4	4	2.406E-09	6.978E-09	800
106.0	10.5	65	3.720E-08	1.082E-07	800
106.0	12.6	18	9.620E-09	2.791E-08	800
106.0	14.7	19	1.083E-08	3.140E-08	800
106.0	16.8	29	1.680E-08	4.888E-08	800
106.0	21.0	19	1.083E-08	3.140E-08	800
106.0	25.2	8	4.693E-09	1.361E-08	800
106.0	29.4	2	1.173E-09	3.402E-09	800
106.0	33.6	22	1.291E-08	3.742E-08	800
T 106.0	37.8	24	1.400E-08	4.083E-08	800
106.0	42.0	70	3.989E-08	1.157E-07	800

TEST F14R FEBRUARY 17, 1961 1410 TO 1440 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 ROOM ARC SAMPLER HT 1.5M U= 2.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM	E/G SEC/CM	FU/G 1/50,M	DISTANCE METERS
104.0	10	5.754E-09	1.669E-08	800
106.0	121	6.905E-08	2.002E-07	800
108.0	410	2.330E-07	6.758E-07	800
110.0	334	1.899E-07	5.507E-07	800
112.0	329	1.870E-07	5.423E-07	800
114.0	1205	6.888E-07	1.986E-06	800
116.0	1673	9.509E-07	2.758E-06	800
118.0	1564	8.890E-07	2.578E-06	800
120.0	777	4.416E-07	1.281E-06	800
122.0	1159	6.589E-07	1.911E-06	800
124.0	1278	7.265E-07	2.107E-06	800
126.0	1741	9.897E-07	2.870E-06	800
128.0	3306	1.879E-06	5.448E-06	800
130.0	4704	2.673E-06	7.751E-06	800
132.0	5319	3.022E-06	8.765E-06	800
134.0	4309	2.448E-06	7.101E-06	800
136.0	4876	2.771E-06	8.035E-06	800
138.0	3587	2.038E-06	5.912E-06	800
140.0	2154	1.224E-06	3.550E-06	800
142.0	2200	1.250E-06	3.625E-06	800
144.0	1952	1.109E-06	3.217E-06	800
146.0	1235	7.020E-07	2.036E-06	800
148.0	1349	7.668E-07	2.224E-06	800
150.0	3018	1.715E-06	4.973E-06	800
152.0	1488	8.459E-07	2.453E-06	800
154.0	1774	1.008E-06	2.924E-06	800
156.0	893	5.078E-07	1.473E-06	800
158.0	562	3.194E-07	9.262E-07	800
160.0	131	7.481E-08	2.169E-07	800

CROSSWIND INTEGRATED= 8.484E-04 2.460E-03
 SEC/50,M 1/M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM	E/G SEC/CM	FU/G 1/50,M	DISTANCE METERS
114.0	1.0	900	5.342E-07	1.549E-06	800
114.0	2.1	1101	6.484E-07	1.880E-06	800
114.0	4.2	1202	6.833E-07	1.982E-06	800
114.0	6.3	603	3.657E-07	1.061E-06	800
114.0	8.4	645	3.669E-07	1.066E-06	800
T 114.0	10.5	431	2.450E-07	7.117E-07	800
114.0	12.6	868	4.933E-07	1.430E-06	800
114.0	14.7	832	4.728E-07	1.371E-06	800
114.0	16.8	616	3.501E-07	1.015E-06	800
114.0	21.0	442	2.514E-07	7.292E-07	800
T 114.0	25.2	307	1.748E-07	5.069E-07	800
114.0	29.4	386	2.194E-07	6.362E-07	800
T 114.0	33.6	289	1.642E-07	4.763E-07	800
114.0	37.8	431	2.452E-07	7.111E-07	800
114.0	42.0	808	2.323E-07	6.736E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM	E/G SEC/CM	FU/G 1/50,M	DISTANCE METERS
122.0	1.0	758	4.307E-07	1.249E-06	800
T 122.0	2.1	997	5.664E-07	1.643E-06	800
122.0	4.2	692	3.934E-07	1.141E-06	800
122.0	6.3	688	3.910E-07	1.134E-06	800
T 122.0	8.4	592	3.365E-07	9.769E-07	800
S 122.0	10.5	438	2.490E-07	7.222E-07	800
122.0	12.6	491	2.791E-07	8.094E-07	800
122.0	14.7	544	3.341E-07	9.804E-07	800
122.0	16.8	567	3.224E-07	9.350E-07	800
122.0	21.0	785	4.463E-07	1.294E-06	800
122.0	25.2	565	3.215E-07	9.327E-07	800
122.0	29.4	763	4.341E-07	1.259E-06	800
Z 122.0	33.6	863	4.904E-07	1.422E-06	800
122.0	37.8	1036	5.880E-07	1.708E-06	800
122.0	42.0	887	5.005E-07	1.463E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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130.0	1.0	2097	1.166E-06	3.440E-06	800
130.0	2.1	2307	1.311E-06	3.803E-06	800
130.0	4.2	3552	2.019E-06	5.854E-06	800
130.0	6.3	3197	1.817E-06	5.268E-06	800
130.0	8.4	4330	2.460E-06	7.135E-06	800
130.0	10.5	3747	2.129E-06	6.175E-06	800
130.0	12.6	3332	1.894E-06	5.491E-06	800
130.0	14.7	4476	2.583E-06	7.375E-06	800
130.0	16.8	4907	2.839E-06	8.234E-06	800
130.0	21.0	5096	2.896E-06	8.398E-06	800
130.0	25.2	4039	2.522E-06	7.315E-06	800
130.0	29.4	4817	2.737E-06	7.937E-06	800
130.0	33.6	4340	2.478E-06	7.186E-06	800
130.0	37.8	2919	1.659E-06	4.811E-06	800
130.0	42.0	3830	2.174E-06	6.311E-06	800

TOWER DATA FOLLOW...

TEST F14P FEBRUARY 17, 1961 1410 TO 1440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC U= 2.9 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
114.0	1.5	119	7.947E-08	2.305E-07	1600
114.0	3.1	52	2.952E-08	8.676E-08	1600
114.0	6.2	27	1.509E-08	4.609E-08	1600
114.0	9.3	40	3.459E-08	1.003E-07	1600
114.0	12.4	46	2.618E-08	7.591E-08	1600
114.0	15.5	74	4.207E-08	1.220E-07	1600
114.0	18.6	62	3.553E-08	1.030E-07	1600
114.0	21.7	27	1.585E-08	4.609E-08	1600
114.0	24.8	114	6.497E-08	1.884E-07	1600
114.0	31.0	45	2.562E-08	7.431E-08	1600
114.0	37.2	6	3.660E-09	1.062E-08	1600
114.0	43.4	16	9.151E-09	2.654E-08	1600
114.0	49.6	13	7.724E-09	2.240E-08	1600
114.0	55.8	13	7.724E-09	2.240E-08	1600
114.0	62.0	6	3.433E-09	9.956E-09	1600

TEST F14B FEBRUARY 17, 1961 1410 TO 1440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 2.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
100.0	15	8.683E-09	2.518E-08	1600
101.0	3	2.171E-09	6.295E-09	1600
102.0	5	3.256E-09	9.443E-09	1600
103.0	0	0.000E+00	0.000E+00	1600
104.0	0	0.000E+00	0.000E+00	1600
105.0	1	1.085E-09	3.148E-09	1600
106.0	9	5.427E-09	1.574E-08	1600
107.0	0	0.000E+00	0.000E+00	1600
108.0	1	1.085E-09	3.148E-09	1600
109.0	9	5.427E-09	1.574E-08	1600
110.0	47	2.713E-08	7.869E-08	1600
111.0	26	1.520E-08	4.407E-08	1600
112.0	57	3.256E-08	9.443E-08	1600
113.0	101	5.753E-08	1.668E-07	1600
114.0	131	7.489E-08	2.172E-07	1600
115.0	139	7.923E-08	2.298E-07	1600
116.0	341	1.943E-07	5.634E-07	1600
117.0	135	7.766E-08	2.235E-07	1600
118.0	257	1.465E-07	4.249E-07	1600
119.0	97	5.535E-08	1.605E-07	1600
120.0	108	6.187E-08	1.794E-07	1600
121.0	234	1.335E-07	3.872E-07	1600
122.0	372	2.117E-07	6.138E-07	1600
123.0	445	2.529E-07	7.334E-07	1600
124.0	221	1.259E-07	3.651E-07	1600
125.0	563	3.202E-07	9.286E-07	1600
126.0	830	4.721E-07	1.369E-06	1600
127.0	930	5.286E-07	1.533E-06	1600
128.0	886	5.036E-07	1.461E-06	1600
129.0	1022	5.807E-07	1.684E-06	1600
130.0	720	4.042E-07	1.187E-06	1600
131.0	888	5.047E-07	1.464E-06	1600
132.0	1174	6.675E-07	1.936E-06	1600
133.0	1228	6.979E-07	2.024E-06	1600
134.0	909	5.166E-07	1.498E-06	1600
135.0	974	5.536E-07	1.605E-06	1600
136.0	1000	5.687E-07	1.649E-06	1600
137.0	1532	8.705E-07	2.524E-06	1600
138.0	1917	1.090E-06	3.160E-06	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
122.0	1.5	118	6.731E-08	1.952E-07	1600
122.0	3.1	106	6.077E-08	1.762E-07	1600
122.0	6.2	78	4.487E-08	1.301E-07	1600
122.0	9.3	88	5.049E-08	1.464E-07	1600
122.0	12.4	95	5.422E-08	1.572E-07	1600
122.0	15.5	46	2.618E-08	7.591E-08	1600
122.0	18.6	88	5.049E-08	1.464E-07	1600
122.0	21.7	110	6.264E-08	1.816E-07	1600
122.0	24.8	125	7.138E-08	2.070E-07	1600
122.0	31.0	82	4.467E-08	1.353E-07	1600
122.0	37.2	82	4.667E-08	1.353E-07	1600
122.0	43.4	107	6.131E-08	1.778E-07	1600
122.0	49.6	28	1.631E-08	4.729E-08	1600
122.0	55.8	75	4.291E-08	1.244E-07	1600
122.0	62.0	30	1.974E-08	5.725E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
130.0	1.5	521	2.944E-07	8.594E-07	1600
130.0	3.1	748	4.254E-07	1.234E-06	1600
130.0	6.2	987	5.409E-07	1.627E-06	1600
130.0	9.3	432	2.455E-07	7.130E-07	1600
130.0	12.4	565	5.488E-07	1.591E-06	1600
130.0	15.5	582	3.310E-07	9.598E-07	1600
130.0	18.6	773	4.394E-07	1.274E-06	1600
130.0	21.7	1107	6.292E-07	1.825E-06	1600
130.0	24.8	434	3.606E-07	1.046E-06	1600
130.0	31.0	409	2.837E-07	8.227E-07	1600
130.0	37.2	1088	6.184E-07	1.794E-06	1600
130.0	43.4	1172	6.689E-07	1.940E-06	1600
130.0	49.6	828	4.678E-07	1.356E-06	1600
130.0	55.8	558	3.174E-07	9.269E-07	1600
130.0	62.0	780	4.437E-07	1.287E-06	1600

CROSSWIND INTEGRATED= 2.752E-04 7.982E-04
SEC/SQ.M 1/M

TEST FT48 FEBRUARY 17, 1961 1410 TO 1440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M APC SAMPLER HT 1.5M U= 2.9 M/SEC AT 2M

AZIMUTH EXPOSURE E/O EU/O DISTANCE
DEGRFFS GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS
X10E+6

73.0	1	1.103E-09	3.199E-09	3200
74.0	0	5.516E-10	1.600E-09	3200
75.0	0	0.000E+00	0.000E+00	3200
76.0	7	4.413E-09	1.280E-08	3200
77.0	24	1.379E-08	3.999E-08	3200
78.0	10	6.066E-09	1.760E-08	3200
79.0	0	0.000E+00	0.000E+00	3200
80.0	5	3.310E-09	9.598E-09	3200
81.0	0	0.000E+00	0.000E+00	3200
82.0	0	0.000E+00	0.000E+00	3200
83.0	0	0.000E+00	0.000E+00	3200
84.0	0	0.000E+00	0.000E+00	3200
85.0	6	3.861E-09	1.120E-08	3200
86.0	16	9.378E-09	2.720E-08	3200
87.0	2	1.655E-09	4.799E-09	3200
88.0	0	0.000E+00	0.000E+00	3200
89.0	3	2.207E-09	6.399E-09	3200
90.0	6	3.861E-09	1.120E-08	3200
91.0	6	3.861E-09	1.120E-08	3200
92.0	2	1.655E-09	4.799E-09	3200
93.0	1	1.103E-09	3.199E-09	3200
94.0	3	2.207E-09	6.399E-09	3200
95.0	5	3.310E-09	9.598E-09	3200
96.0	0	0.000E+00	0.000E+00	3200
97.0	0	5.516E-10	1.600E-09	3200
98.0	0	0.000E+00	0.000E+00	3200
99.0	6	3.861E-09	1.120E-08	3200
100.0	0	0.000E+00	0.000E+00	3200
101.0	25	1.438E-08	4.159E-08	3200
102.0	2	1.655E-09	4.799E-09	3200
103.0	0	0.000E+00	0.000E+00	3200
104.0	0	0.000E+00	0.000E+00	3200
105.0	51	2.924E-08	8.479E-08	3200
106.0	0	0.000E+00	0.000E+00	3200
107.0	6	3.861E-09	1.120E-08	3200
108.0	0	0.000E+00	0.000E+00	3200
109.0	7	4.413E-09	1.280E-08	3200
110.0	28	1.600E-08	4.639E-08	3200
111.0	34	1.986E-08	5.759E-08	3200
112.0	11	6.620E-09	1.920E-08	3200
113.0	0	0.000E+00	0.000E+00	3200
114.0	9	5.516E-09	1.600E-08	3200
115.0	13	7.723E-09	2.240E-08	3200
116.0	16	9.378E-09	2.720E-08	3200
117.0	52	2.979E-08	8.639E-08	3200
118.0	61	3.475E-08	1.008E-07	3200
119.0	47	2.703E-08	7.839E-08	3200
120.0	63	3.586E-08	1.040E-07	3200
121.0	73	4.192E-08	1.216E-07	3200
T 122.0	103	5.907E-08	1.712E-07	3200
123.0	90	5.150E-08	1.488E-07	3200
124.0	101	5.792E-08	1.680E-07	3200
125.0	89	5.075E-08	1.472E-07	3200
S 126.0	120	6.840E-08	1.984E-07	3200
127.0	139	7.940E-08	2.304E-07	3200
128.0	144	1.048E-07	3.039E-07	3200
129.0	205	1.169E-07	3.391E-07	3200
130.0	185	1.054E-07	3.055E-07	3200
131.0	257	1.462E-07	4.239E-07	3200
132.0	217	1.236E-07	3.583E-07	3200
133.0	235	1.340E-07	3.887E-07	3200
134.0	187	1.065E-07	3.087E-07	3200
135.0	233	1.324E-07	3.839E-07	3200
136.0	241	1.374E-07	3.983E-07	3200
137.0	150	8.550E-08	2.480E-07	3200
138.0	141	8.054E-08	2.336E-07	3200
139.0	205	1.169E-07	3.391E-07	3200
140.0	180	1.026E-07	2.976E-07	3200
141.0	126	7.171E-08	2.080E-07	3200
142.0	62	3.530E-08	1.024E-07	3200
143.0	63	3.586E-08	1.040E-07	3200
144.0	45	2.593E-08	7.519E-08	3200

145.0	15	8.826E-09	2.560E-08	3200
146.0	8	2.758E-09	7.999E-09	3200
147.0	0	0.000E+00	0.000E+00	3200
148.0	16	9.378E-09	2.720E-08	3200
149.0	8	4.965E-09	1.440E-08	3200
150.0	0	0.000E+00	0.000E+00	3200
151.0	3	2.207E-09	6.399E-09	3200
S 152.0	4	2.758E-09	7.999E-09	3200
153.0	1	1.103E-09	3.199E-09	3200
154.0	2	1.655E-09	4.799E-09	3200
155.0	4	2.758E-09	7.999E-09	3200
156.0	15	8.826E-09	2.560E-08	3200
157.0	13	7.723E-09	2.240E-08	3200
158.0	7	4.413E-09	1.280E-08	3200
159.0	9	5.516E-09	1.600E-08	3200
160.0	6	3.861E-09	1.120E-08	3200
161.0	1	1.103E-09	3.199E-09	3200

CROSSWIND INTEGRATED= 1.369E-04 3.970E-04
SEC/SQ.M 1/M

TOWER DATA FOLLOWING...

TEST FT49 FEBRUARY 17, 1961 1410 TO 1440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M APC U= 2.9 M/SEC AT 2M

AZIMUTH HEIGHT EXPOSURE E/O EU/O DISTANCE
DEGRFFS METERS GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS
X10E+6

114.0	1.5	11	6.319E-09	1.832E-08	3200
114.0	3.1	0	0.000E+00	0.000E+00	3200
T 114.0	6.2	0	0.000E+00	0.000E+00	3200
114.0	9.3	1	1.053E-09	3.054E-09	3200
T 114.0	12.4	8	4.739E-09	1.374E-08	3200
114.0	15.5	1	1.053E-09	3.054E-09	3200
T 114.0	18.6	5	3.159E-09	9.162E-09	3200
114.0	21.7	5	3.159E-09	9.162E-09	3200
T 114.0	24.8	1	1.053E-09	3.054E-09	3200
T 114.0	31.0	3	2.106E-09	6.108E-09	3200
114.0	37.2	11	6.319E-09	1.832E-08	3200
114.0	43.4	3	2.106E-09	6.108E-09	3200
114.0	49.6	4	3.470E-09	1.006E-08	3200
114.0	55.8	3	1.983E-09	5.750E-09	3200
114.0	62.0	13	7.435E-09	2.156E-08	3200

AZIMUTH HEIGHT EXPOSURE E/O EU/O DISTANCE
DEGRFFS METERS GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS
X10E+6

122.0	1.5	68	3.897E-08	1.130E-07	3200
122.0	3.1	70	4.002E-08	1.161E-07	3200
122.0	6.2	117	6.687E-08	1.939E-07	3200
122.0	9.3	149	8.477E-08	2.459E-07	3200
122.0	12.4	100	5.687E-08	1.649E-07	3200
122.0	15.5	147	8.372E-08	2.428E-07	3200
S 122.0	18.6	117	6.687E-08	1.939E-07	3200
122.0	21.7	112	6.371E-08	1.848E-07	3200
122.0	24.8	129	7.372E-08	2.138E-07	3200
122.0	31.0	104	5.950E-08	1.726E-07	3200
S 122.0	37.2	134	7.635E-08	2.218E-07	3200
122.0	43.4	97	5.529E-08	1.603E-07	3200
122.0	49.6	103	5.899E-08	1.711E-07	3200
122.0	55.8	123	6.989E-08	2.027E-07	3200
122.0	62.0	A2	4.705E-08	1.366E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/C SEC/CU.M	FU/G 1/50.M	DISTANCE METERS
130.0	1.5	242	1.380E-07	0.001E-07	3200
130.0	3.1	118	6.740E-08	1.955E-07	3200
S 130.0	4.2	213	1.211E-07	3.512E-07	3200
T 130.0	9.3	109	6.213E-08	1.802E-07	3200
130.0	12.4	231	1.316E-07	3.818E-07	3200
130.0	15.5	202	1.108E-07	3.329E-07	3200
130.0	18.6	108	6.161E-08	1.787E-07	3200
130.0	21.7	133	7.582E-08	2.199E-07	3200
130.0	24.8	260	1.480E-07	4.251E-07	3200
130.0	31.0	213	1.211E-07	3.512E-07	3200
130.0	37.2	166	9.478E-08	2.749E-07	3200
130.0	43.4	213	1.211E-07	3.512E-07	3200
130.0	49.6	87	4.957E-08	1.438E-07	3200
130.0	55.8	92	5.254E-08	1.527E-07	3200
T 130.0	62.0	102	5.800E-08	1.622E-07	3200

30-SERIES EXPERIMENT: 49 (FT-49)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS. MANY OF THE
FILTERS ON THE TOWERS SHOWED SIGNS OF WEATHERING. MUCH OF THE
PLUME PASSED TO THE SOUTH OF THE GRID.

TEST FT49 APRIL 3, 1961 1041 TO 1111 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 5.1 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/G SEC/CM	EU/O 1/SG,M	DISTANCE METERS
74.0	4	2.685E-09	1.370E-08	200
76.0	0	0.000E+00	0.000E+00	200
78.0	3	1.790E-09	9.130E-09	200
80.0	0	0.000E+00	0.000E+00	200
82.0	100	5.818E-08	2.967E-07	200
84.0	124	7.250E-08	3.698E-07	200
86.0	306	1.781E-07	9.085E-07	200
88.0	421	2.453E-07	1.251E-06	200
90.0	889	5.174E-07	2.639E-06	200
92.0	806	4.690E-07	2.392E-06	200
94.0	869	5.057E-07	2.579E-06	200
96.0	635	3.697E-07	1.885E-06	200
98.0	839	4.878E-07	2.488E-06	200
100.0	974	5.666E-07	2.890E-06	200
102.0	221	1.289E-07	6.574E-07	200
104.0	160	9.309E-08	4.748E-07	200
106.0	190	1.110E-07	5.661E-07	200
108.0	187	1.092E-07	5.569E-07	200
110.0	100	5.818E-08	2.967E-07	200
112.0	35	2.059E-08	1.050E-07	200
114.0	26	1.522E-08	7.761E-08	200
116.0	143	8.325E-08	4.246E-07	200
118.0	121	7.071E-08	3.606E-07	200
120.0	457	2.659E-07	1.356E-06	200
122.0	1003	5.836E-07	2.976E-06	200
124.0	863	5.022E-07	2.561E-06	200
126.0	768	4.467E-07	2.278E-06	200
128.0	2136	1.242E-06	6.336E-06	200
130.0	3019	1.755E-06	8.952E-06	200
132.0	7368	4.284E-06	2.185E-05	200
134.0	3568	2.075E-06	1.058E-05	200
136.0	8458	4.918E-06	2.508E-05	200
138.0	3730	2.169E-06	1.106E-05	200
140.0	3036	1.765E-06	9.002E-06	200
142.0	8092	4.705E-06	2.399E-05	200
144.0	9039	5.255E-06	2.680E-05	200
146.0	13416	7.800E-06	3.978E-05	200
148.0	8092	4.705E-06	2.399E-05	200
150.0	11470	6.669E-06	3.401E-05	200
152.0	3756	2.184E-06	1.114E-05	200
154.0	8424	4.898E-06	2.498E-05	200
156.0	9774	5.683E-06	2.898E-05	200
158.0	11871	6.902E-06	3.520E-05	200

CROSSWIND INTEGRATED= 5.296E-04
SEC/SG,M 2.701E-03
1/M

TOWER DATA FOLLOW....

TEST FT49 APRIL 3, 1961 1041 TO 1111 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 5.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/G SEC/CM	EU/O 1/SG,M	DISTANCE METERS
98.0	0.7	978	5.687E-07	2.900E-06	200
98.0	1.4	525	3.058E-07	1.559E-06	200
98.0	2.7	409	2.613E-07	1.333E-06	200
Z 98.0	4.1	661	3.843E-07	1.960E-06	200
Z 98.0	5.4	272	1.583E-07	8.073E-07	200
98.0	6.8	545	3.171E-07	1.617E-06	200
Z 98.0	8.1	59	3.473E-08	1.771E-07	200
98.0	9.4	370	2.152E-07	1.098E-06	200
Z 98.0	10.8	262	1.526E-07	7.782E-07	200
98.0	13.5	149	8.711E-08	4.443E-07	200
Z 98.0	16.2	128	7.459E-08	3.804E-07	200
T 98.0	18.9	49	2.908E-08	1.481E-07	200
Z 98.0	21.6	57	3.359E-08	1.713E-07	200
Z 98.0	24.3	65	3.820E-08	1.948E-07	200
Z 98.0	27.0	173	1.008E-07	5.139E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/G SEC/CM	EU/O 1/SG,M	DISTANCE METERS
106.0	0.7	172	1.003E-07	5.113E-07	200
106.0	1.4	119	6.946E-08	3.543E-07	200
106.0	2.7	69	4.043E-08	2.062E-07	200
106.0	4.1	191	1.116E-07	5.691E-07	200
106.0	5.4	74	4.612E-08	2.352E-07	200
106.0	6.8	39	2.278E-08	1.162E-07	200
Z 106.0	8.1	47	2.733E-08	1.394E-07	200
T 106.0	9.4	27	1.594E-08	8.131E-08	200
106.0	10.8	63	3.701E-08	1.887E-07	200
Z 106.0	13.5	0	0.000E+00	0.000E+00	200
Z 106.0	16.2	20	1.196E-08	6.098E-08	200
106.0	18.9	30	1.765E-08	9.002E-08	200
Z 106.0	21.6	0	0.000E+00	0.000E+00	200
106.0	24.3	37	2.197E-08	1.120E-07	200
Z 106.0	27.0	57	3.343E-08	1.705E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/G SEC/CM	EU/O 1/SG,M	DISTANCE METERS
114.0	0.7	50	2.958E-08	1.509E-07	200
114.0	1.4	6	3.984E-09	2.033E-08	200
114.0	2.7	112	6.548E-08	3.339E-07	200
114.0	4.1	90	5.238E-08	2.672E-07	200
114.0	5.4	46	2.676E-08	1.365E-07	200
Z 114.0	6.8	115	6.714E-08	3.427E-07	200
Z 114.0	8.1	99	5.808E-08	2.962E-07	200
Z 114.0	9.4	80	4.669E-08	2.381E-07	200
114.0	10.8	59	3.473E-08	1.771E-07	200
114.0	13.5	70	4.100E-08	2.091E-07	200
114.0	16.2	50	2.961E-08	1.510E-07	200
Z 114.0	18.9	25	1.480E-08	7.550E-08	200
Z 114.0	21.6	51	3.018E-08	1.539E-07	200
114.0	24.3	42	2.483E-08	1.266E-07	200
114.0	27.0	27	1.624E-08	8.280E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM.	EU/O 1/SG.M	DISTANCE METERS
122.0	0.7	1045	6.081E-07	3.101E+06	200
122.0	1.4	445	2.591E-07	1.321E+06	200
122.0	2.7	486	2.830E-07	1.443E+06	200
2 122.0	4.1	874	5.085E-07	2.593E+06	200
122.0	5.4	642	3.735E-07	1.905E+06	200
E 122.0	6.8	711	4.139E-07	2.111E+06	200
122.0	8.1	817	4.754E-07	2.825E+06	200
122.0	9.4	318	1.850E-07	9.837E-07	200
122.0	10.8	398	2.317E-07	1.182E+06	200
122.0	13.5	256	1.492E-07	7.608E-07	200
122.0	16.2	359	2.090E-07	1.066E+06	200
122.0	18.9	121	7.060E-08	3.601E-07	200
122.0	21.6	227	1.321E-07	6.737E-07	200
122.0	24.3	77	4.489E-08	2.289E-07	200
122.0	27.0	76	4.441E-08	2.265E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM.	EU/O 1/SG.M	DISTANCE METERS
130.0	0.7	1683	2.141E-06	1.092E-05	200
130.0	1.4	771	4.487E-07	2.288E-06	200
130.0	2.7	908	5.284E-07	2.695E-06	200
130.0	4.1	1624	9.486E-07	4.817E-06	200
130.0	5.4	2585	1.503E-06	7.666E-06	200
130.0	6.8	1130	7.738E-07	3.946E-06	200
130.0	8.1	1196	6.958E-07	3.548E-06	200
130.0	9.4	1744	1.014E-06	5.172E-06	200
130.0	10.8	503	2.927E-07	1.893E-06	200
130.0	13.5	628	3.655E-07	1.864E-06	200
130.0	16.2	1993	1.159E-06	5.912E-06	200
130.0	18.9	1706	9.884E-07	5.041E-06	200
130.0	21.6	1942	1.141E-06	5.819E-06	200
130.0	24.3	469	2.731E-07	1.393E-06	200
130.0	27.0	890	5.178E-07	2.648E-06	200

TEST F149 APRIL 3, 1961 1041 TO 1111 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ARC SAMPLER HT 1.5M U= 5.1 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM.	EU/O 1/SG.M	DISTANCE METERS
92.0	7	4.329E-09	2.208E+08	800
94.0	1	8.659E-10	4.416E+09	800
96.0	1	8.659E-10	4.416E+09	800
98.0	7	4.329E-09	2.208E+08	800
100.0	11	6.927E-09	3.533E+08	800
102.0	32	1.905E-08	9.715E+08	800
104.0	13	7.793E-09	3.974E+08	800
106.0	13	7.793E-09	3.974E+08	800
108.0	19	1.126E-08	5.741E+08	800
110.0	4	2.598E-09	1.325E+08	800
112.0	8	5.195E-09	2.650E+08	800
114.0	2	1.732E-09	8.832E+09	800
116.0	31	1.818E-08	9.273E+08	800
118.0	5	3.463E-09	1.766E+08	800
120.0	28	1.645E-08	8.390E+08	800
122.0	14	8.659E-09	4.416E+08	800
124.0	5	3.463E-09	1.766E+08	800
126.0	7	4.329E-09	2.208E+08	800
128.0	37	2.165E-08	1.104E+07	800
130.0	96	5.628E-08	2.870E+07	800
132.0	25	1.472E-08	7.507E+08	800
134.0	83	8.849E-08	2.473E+07	800
136.0	196	1.143E-07	5.829E+07	800
138.0	265	1.541E-07	7.860E+07	800
140.0	165	9.611E-08	4.902E+07	800
142.0	417	2.424E-07	1.236E+06	800
144.0	217	1.264E-07	6.447E+07	800
146.0	363	2.113E-07	1.077E+06	800
148.0	180	1.048E-07	5.343E+07	800
150.0	224	1.307E-07	6.668E+07	800
152.0	171	9.957E-08	5.078E+07	800
154.0	46	2.684E-08	1.369E+07	800
156.0	190	1.108E-07	5.652E+07	800
158.0	147	8.572E-08	4.372E+07	800
160.0	144	8.399E-08	4.283E+07	800

CROSSWIND INTEGRATED= 5.182E-05 2.643E-04
SEC/SG.M 1/M

TOFF DATA FOLLOW....

TEST F149 APRIL 3, 1961 1041 TO 1111 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ARC U= 5.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM.	EU/O 1/SG.M	DISTANCE METERS
98.0	1.0	11	6.609E-09	3.371E+08	800
98.0	2.1	9	5.508E-09	2.809E+08	800
98.0	4.2	2	1.652E-09	8.427E+09	800
98.0	6.3	0	0.000E+00	0.000E+00	800
98.0	8.4	2	1.652E-09	8.427E+09	800
98.0	10.5	0	0.000E+00	0.000E+00	800
Z 98.0	12.6	2	1.652E-09	8.427E+09	800
T 98.0	14.7	0	5.508E-10	2.809E+09	800
T 98.0	16.8	0	0.000E+00	0.000E+00	800
T 98.0	21.0	0	0.000E+00	0.000E+00	800
T 98.0	25.2	10	6.005E-09	3.062E+08	800
T 98.0	29.4	1	9.238E-10	4.712E+09	800
T 98.0	33.6	5	3.233E-09	1.649E+08	800
T 98.0	37.8	0	0.000E+00	0.000E+00	800
T 98.0	42.0	0	0.000E+00	0.000E+00	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	FU/G 1/SG.M	DISTANCE METERS
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106.0	1.0	10	6.052E-09	3.090E-08	800
106.0	2.1	8	4.957E-09	2.528E-08	800
S 106.0	4.2	5	3.305E-09	1.685E-08	800
T 106.0	6.3	8	4.957E-09	2.528E-08	800
106.0	8.4	23	1.377E-08	7.022E-08	800
106.0	10.5	0	0.000E+00	0.000E+00	800
106.0	12.6	7	4.406E-09	2.247E-08	800
106.0	14.7	11	6.609E-09	3.371E-08	800
106.0	16.8	3	2.203E-09	1.124E-08	800
106.0	21.0	17	1.046E-08	5.337E-08	800
106.0	25.2	21	1.247E-08	6.361E-08	800
106.0	29.4	21	1.247E-08	6.361E-08	800
106.0	33.6	30	1.801E-08	9.167E-08	800
Z 106.0	37.8	3	2.310E-09	1.178E-08	800
106.0	42.0	0	0.000E+00	0.000E+00	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	FU/G 1/SG.M	DISTANCE METERS
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114.0	1.0	2	1.652E-09	8.427E-09	800
114.0	2.1	4	2.750E-09	1.404E-08	800
114.0	4.2	11	6.609E-09	3.371E-08	800
114.0	6.3	0	0.000E+00	0.000E+00	800
114.0	8.4	0	0.000E+00	0.000E+00	800
114.0	10.5	8	4.957E-09	2.528E-08	800
114.0	12.6	11	6.609E-09	3.371E-08	800
114.0	14.7	0	0.000E+00	0.000E+00	800
114.0	16.8	0	0.000E+00	0.000E+00	800
114.0	25.2	8	5.081E-09	2.591E-08	800
114.0	29.4	11	6.929E-09	3.538E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	FU/G 1/SG.M	DISTANCE METERS
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122.0	1.0	19	1.157E-08	5.899E-08	800
122.0	2.1	1	1.102E-09	5.618E-09	800
122.0	4.2	11	6.609E-09	3.371E-08	800
122.0	6.3	27	1.597E-08	8.146E-08	800
122.0	8.4	7	4.406E-09	2.247E-08	800
122.0	10.5	20	1.212E-08	6.180E-08	800
122.0	12.6	30	1.762E-08	8.989E-08	800
122.0	14.7	17	9.914E-09	5.056E-08	800
Z 122.0	16.8	46	2.699E-08	1.376E-07	800
122.0	21.0	35	2.093E-08	1.067E-07	800
122.0	25.2	7	4.619E-09	2.356E-08	800
122.0	29.4	5	3.233E-09	1.649E-08	800
122.0	33.6	12	7.391E-09	3.769E-08	800
122.0	37.8	15	8.776E-09	4.476E-08	800
T 122.0	42.0	0	0.000E+00	0.000E+00	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	FU/G 1/SG.M	DISTANCE METERS
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130.0	1.0	15	8.812E-09	4.494E-08	800
130.0	2.1	82	4.792E-08	2.404E-07	800
130.0	4.2	112	6.554E-08	3.343E-07	800
130.0	6.3	33	1.928E-08	9.831E-08	800
130.0	8.4	9	5.508E-09	2.809E-08	800
130.0	10.5	18	1.102E-08	5.618E-08	800
130.0	12.6	45	2.644E-08	1.348E-07	800
130.0	14.7	23	1.377E-08	7.022E-08	800
130.0	16.8	59	3.470E-08	1.770E-07	800
130.0	21.0	17	1.046E-08	5.337E-08	800
130.0	25.2	22	1.293E-08	6.596E-08	800
130.0	29.4	18	1.062E-08	5.418E-08	800
130.0	33.6	7	4.157E-09	2.120E-08	800
130.0	37.8	35	2.079E-08	1.060E-07	800
130.0	42.0	24	1.432E-08	7.303E-08	800

TEST F149 APRIL 3, 1961 1001 TO 1111 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 5.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	FU/G 1/SG.M	DISTANCE METERS
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104.0	9	5.673E-09	2.893E-08	1600
105.0	30	1.773E-08	9.042E-08	1600
106.0	39	2.269E-08	1.157E-07	1600
107.0	9	5.673E-09	2.893E-08	1600
108.0	28	1.631E-08	8.319E-08	1600
109.0	24	1.418E-08	7.234E-08	1600
110.0	12	7.092E-09	3.617E-08	1600
111.0	0	0.000E+00	0.000E+00	1600
112.0	19	1.135E-08	5.787E-08	1600
113.0	4	2.817E-09	1.447E-08	1600
114.0	24	1.418E-08	7.234E-08	1600
S 115.0	1	7.092E-10	3.617E-09	1600
116.0	0	0.000E+00	0.000E+00	1600
117.0	0	0.000E+00	0.000E+00	1600
118.0	8	4.964E-09	2.532E-08	1600
119.0	14	8.510E-09	4.340E-08	1600
120.0	6	3.546E-09	1.808E-08	1600
121.0	17	9.929E-09	5.064E-08	1600
122.0	14	8.510E-09	4.340E-08	1600
123.0	53	3.120E-08	1.591E-07	1600
124.0	111	6.458E-08	3.291E-07	1600
125.0	90	5.248E-08	2.676E-07	1600
126.0	74	4.326E-08	2.206E-07	1600
127.0	87	5.108E-08	2.604E-07	1600
128.0	62	3.617E-08	1.845E-07	1600
129.0	53	3.120E-08	1.591E-07	1600
130.0	30	1.773E-08	9.042E-08	1600
131.0	17	9.929E-09	5.064E-08	1600
132.0	40	2.340E-08	1.194E-07	1600
133.0	35	2.057E-08	1.049E-07	1600
134.0	40	2.340E-08	1.194E-07	1600
135.0	170	9.929E-08	5.064E-07	1600
136.0	104	6.099E-08	3.110E-07	1600
137.0	243	1.418E-07	7.234E-07	1600

CROSSKIND INTEGRATED= 2.460E-05 1.254E-04
SFC/SG.M 1/M

TOWER DATA FOLLOW....

TEST F149 APRIL 3, 1961 1001 TO 1111 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC L= 5.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	FU/G 1/SG.M	DISTANCE METERS
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104.0	1.5	32	1.882E-08	9.600E-08	1600
106.0	3.1	22	1.303E-08	6.646E-08	1600
108.0	6.2	12	7.240E-09	3.692E-08	1600
108.0	9.3	1	9.653E-10	4.923E-09	1600
108.0	12.4	0	0.000E+00	0.000E+00	1600
T 108.0	15.5	3	1.931E-09	9.846E-09	1600
T 106.0	18.6	1	9.653E-10	4.923E-09	1600
T 106.0	21.7	0	0.000E+00	0.000E+00	1600
106.0	24.8	5	2.909E-09	1.484E-08	1600
106.0	31.0	7	4.156E-09	2.119E-08	1600
106.0	37.2	1	8.311E-10	4.239E-09	1600
T 106.0	43.4	0	0.000E+00	0.000E+00	1600
T 106.0	49.6	0	0.000E+00	0.000E+00	1600
T 106.0	55.8	2	1.556E-09	7.951E-09	1600
T 106.0	62.0	0	0.000E+00	0.000E+00	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/C SEC/CU.M	EU/C 1/SEC.M	DISTANCE METERS
114.0	1.5	0	2.413E-09	1.231E-08	1600
114.0	3.1	0	4.827E-10	2.462E-09	1600
114.0	6.2	0	0.000E+00	0.000E+00	1600
114.0	9.3	3	1.931E-09	9.846E-09	1600
114.0	12.4	1	9.653E-10	4.923E-09	1600
114.0	15.5	9	5.792E-09	2.954E-08	1600
114.0	18.6	4	2.896E-09	1.477E-08	1600
114.0	21.7	0	4.827E-10	2.462E-09	1600
114.0	24.8	1	8.311E-10	4.239E-09	1600
114.0	31.0	2	1.247E-09	6.358E-09	1600
T 114.0	37.2	0	0.000E+00	0.000E+00	1600
114.0	43.4	7	4.571E-09	2.331E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/C SEC/CU.M	EU/C 1/SEC.M	DISTANCE METERS
122.0	1.5	14	8.688E-09	4.431E-08	1600
122.0	3.1	10	6.274E-09	3.200E-08	1600
T 122.0	6.2	3	1.931E-09	9.846E-09	1600
122.0	9.3	11	6.757E-09	3.446E-08	1600
122.0	15.5	6	3.861E-09	1.969E-08	1600
122.0	18.6	8	4.827E-09	2.462E-08	1600
122.0	21.7	11	6.757E-09	3.446E-08	1600
122.0	24.8	3	2.078E-09	1.060E-08	1600
122.0	31.0	2	1.662E-09	8.478E-09	1600
122.0	37.2	5	2.909E-09	1.484E-08	1600
122.0	43.4	5	2.909E-09	1.484E-08	1600
S 122.0	49.6	6	3.898E-09	1.988E-08	1600
Z 122.0	55.8	0	3.898E-09	1.988E-08	1600
122.0	62.0	0	0.000E+00	0.000E+00	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/C SEC/CU.M	EU/C 1/SEC.M	DISTANCE METERS
130.0	1.5	13	7.722E-09	3.938E-08	1600
130.0	3.1	3	1.931E-09	9.846E-09	1600
130.0	6.2	13	7.722E-09	3.938E-08	1600
130.0	9.3	1	9.653E-10	4.923E-09	1600
130.0	12.4	19	1.158E-08	5.908E-08	1600
130.0	15.5	12	7.240E-09	3.692E-08	1600
130.0	18.6	21	1.255E-08	6.400E-08	1600
T 130.0	21.7	30	1.786E-08	9.108E-08	1600
130.0	24.8	37	2.203E-08	1.123E-07	1600
130.0	31.0	12	7.065E-09	3.603E-08	1600
130.0	43.4	13	7.896E-09	4.027E-08	1600
130.0	49.6	21	1.247E-08	6.361E-08	1600
130.0	55.8	2	1.555E-09	7.951E-09	1600
130.0	62.0	5	3.111E-09	1.590E-08	1600

TEST FT49 APRIL 3, 1961 1041 TO 1111 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M Ux 5.1 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/C SEC/CU.M	EU/C 1/SEC.M	DISTANCE METERS
122.0	6	3.988E-09	2.034E-08	3200
123.0	9	5.760E-09	2.938E-08	3200
124.0	3	2.215E-09	1.130E-08	3200
125.0	30	1.772E-08	9.039E-08	3200
126.0	6	3.545E-09	1.808E-08	3200
127.0	3	2.215E-09	1.130E-08	3200
128.0	8	4.874E-09	2.486E-08	3200
129.0	3	2.215E-09	1.130E-08	3200
130.0	5	3.101E-09	1.582E-08	3200
131.0	2	1.329E-09	6.779E-09	3200
132.0	2	1.329E-09	6.779E-09	3200
133.0	3	1.772E-09	9.039E-09	3200
134.0	2	1.329E-09	6.779E-09	3200
135.0	0	4.431E-10	2.260E-09	3200
136.0	3	2.215E-09	1.130E-08	3200
137.0	3	2.215E-09	1.130E-08	3200
138.0	2	1.329E-09	6.779E-09	3200
139.0	5	3.101E-09	1.582E-08	3200
140.0	4	2.658E-09	1.356E-08	3200
141.0	6	3.988E-09	2.034E-08	3200
142.0	15	2.038E-08	1.039E-07	3200
143.0	12	7.532E-09	3.841E-08	3200
S 144.0	7	4.431E-09	2.260E-08	3200
145.0	19	1.108E-08	5.649E-08	3200
146.0	9	5.760E-09	2.938E-08	3200
147.0	12	7.089E-09	3.615E-08	3200
148.0	9	5.760E-09	2.938E-08	3200
149.0	30	1.772E-08	9.039E-08	3200
150.0	28	1.684E-08	8.587E-08	3200
151.0	10	6.203E-09	3.163E-08	3200
152.0	0	4.431E-10	2.260E-09	3200
153.0	1	8.861E-10	4.519E-09	3200
154.0	28	1.684E-08	8.587E-08	3200
155.0	32	1.905E-08	9.716E-08	3200
156.0	20	1.194E-08	6.101E-08	3200
157.0	37	2.171E-08	1.107E-07	3200
158.0	16	9.747E-09	4.971E-08	3200
159.0	25	1.506E-08	7.683E-08	3200
160.0	12	7.532E-09	3.841E-08	3200
161.0	28	1.639E-08	8.361E-08	3200

CROSSWIND INTEGRATED= 1.618E-05 8.254E-05
SEC/90.M 1/M

TOXER DATA FOLLOWS...

TEST FT49 APRIL 3, 1961 1041 TO 1111 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC Lx 5.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/C SEC/CU.M	EU/C 1/SEC.M	DISTANCE METERS
130.0	1.5	3	6.947E-10	3.543E-09	3200
130.0	3.1	1	1.042E-09	5.314E-09	3200
Z 130.0	6.2	4	2.431E-09	1.240E-08	3200
130.0	9.3	0	0.000E+00	0.000E+00	3200
S 130.0	12.4	1	6.947E-10	3.543E-09	3200
130.0	15.5	2	1.737E-09	8.857E-09	3200
130.0	18.6	4	2.775E-09	1.417E-08	3200
130.0	21.7	24	1.424E-08	7.263E-08	3200
130.0	24.8	8	5.055E-09	2.578E-08	3200
130.0	31.0	2	1.262E-09	6.446E-09	3200
130.0	37.2	15	8.847E-09	4.512E-08	3200
7 130.0	43.4	5	3.160E-09	1.611E-08	3200
130.0	49.6	13	7.585E-09	3.868E-08	3200
130.0	55.8	5	3.034E-09	1.547E-08	3200
T 130.0	62.0	2	1.214E-09	6.189E-09	3200

30-SERIES EXPERIMENT: 50 (FT-50)
GROUND LEVEL AND TOWER SAMPLING 200-12800 M ARCS.

TEST F150 APRIL 11, 1961 0515 TO 0545 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/R SEC/CU.M	FU/R 1/SQ.M	DISTANCE METERS
68.0	888	7.729E-07	3.169E-06	200
70.0	1340	1.165E-06	4.778E-06	200
72.0	940	8.178E-07	3.352E-06	200
74.0	760	6.618E-07	2.710E-06	200
76.0	21	1.893E-08	7.763E-08	200
78.0	41	3.615E-08	1.482E-07	200
80.0	0	0.000E+00	0.000E+00	200
82.0	27	2.410E-08	9.881E-08	200
84.0	0	0.000E+00	0.000E+00	200
86.0	1	1.721E-09	7.058E-09	200
88.0	0	0.000E+00	0.000E+00	200
90.0	35	3.098E-08	1.270E-07	200
92.0	43	3.787E-08	1.553E-07	200
94.0	31	2.754E-08	1.129E-07	200
96.0	49	4.303E-08	1.764E-07	200
98.0	41	3.615E-08	1.482E-07	200
100.0	597	5.198E-07	2.131E-06	200
102.0	2428	2.112E-06	8.660E-06	200
104.0	9679	8.417E-06	3.451E-05	200
106.0	26921	2.341E-05	9.598E-05	200
108.0	67379	5.859E-05	2.402E-04	200
110.0	84558	7.353E-05	3.015E-04	200
112.0	98537	8.569E-05	3.513E-04	200
114.0	109868	9.554E-05	3.917E-04	200
116.0	160812	1.398E-04	5.733E-04	200
118.0	204142	1.775E-04	7.278E-04	200
120.0	240487	2.091E-04	8.574E-04	200
122.0	204512	1.778E-04	7.291E-04	200
124.0	297430	2.586E-04	1.060E-03	200
126.0	290223	2.524E-04	1.035E-03	200
128.0	180730	1.572E-04	6.443E-04	200
130.0	102601	8.922E-05	3.658E-04	200
132.0	47378	4.120E-05	1.689E-04	200
134.0	15048	1.309E-05	5.365E-05	200
136.0	2812	2.446E-06	1.003E-05	200
138.0	160	1.394E-07	5.717E-07	200
140.0	25	2.238E-08	9.175E-08	200
142.0	0	0.000E+00	0.000E+00	200
144.0	5	5.164E-09	2.117E-08	200
146.0	5	5.164E-09	2.117E-08	200
148.0	7	4.885E-09	2.423E-08	200
150.0	9	4.607E-09	2.529E-08	200
152.0	3	3.443E-09	1.412E-08	200
154.0	3	3.443E-09	1.412E-08	200

CROSS-AND INTEGRATED= 1.308E-02 5.353E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST F150 APRIL 11, 1961 0515 TO 0545 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 4.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/R SEC/CU.M	FU/R 1/SQ.M	DISTANCE METERS
98.0	0.7	21	1.870E-08	7.668E-08	200
98.0	1.4	11	1.036E-08	4.247E-08	200
98.0	2.7	30	2.637E-08	1.081E-07	200
98.0	4.1	202	2.542E-07	1.042E-06	200
98.0	5.4	60	5.273E-08	2.162E-07	200
98.0	6.8	40	3.484E-08	1.428E-07	200
98.0	8.1	63	5.556E-08	2.278E-07	200
98.0	9.4	108	9.417E-08	3.861E-07	200
98.0	10.8	115	1.008E-07	4.131E-07	200
98.0	13.5	28	2.488E-08	1.004E-07	200
98.0	16.2	14	1.224E-08	5.019E-08	200
98.0	18.9	3	2.425E-09	1.158E-08	200
98.0	21.6	6	5.650E-09	2.316E-08	200
98.0	24.3	0	7.701E-10	3.158E-09	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/R SEC/CU.M	FU/R 1/SQ.M	DISTANCE METERS
106.0	0.7	36515	3.175E-05	1.302E-04	200
106.0	1.4	13848	1.204E-05	4.937E-05	200
106.0	2.7	15449	1.343E-05	5.508E-05	200
106.0	4.1	15593	1.356E-05	5.560E-05	200
106.0	5.4	18849	1.291E-05	5.294E-05	200
106.0	6.8	12646	1.100E-05	4.509E-05	200
106.0	8.1	12180	1.059E-05	4.343E-05	200
106.0	9.4	11510	1.001E-05	4.104E-05	200
106.0	10.8	12718	1.106E-05	4.534E-05	200
106.0	13.5	8345	7.257E-06	2.976E-05	200
106.0	16.2	6960	6.053E-06	2.482E-05	200
106.0	18.9	5018	4.364E-06	1.789E-05	200
106.0	21.6	1496	1.301E-06	5.336E-06	200
106.0	24.3	1140	9.950E-07	4.080E-06	200
106.0	27.0	643	5.599E-07	2.296E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/R SEC/CU.M	FU/R 1/SQ.M	DISTANCE METERS
114.0	0.7	140016	1.218E-04	4.992E-04	200
114.0	1.4	61845	5.380E-05	2.206E-04	200
114.0	2.7	60380	5.250E-05	2.193E-04	200
114.0	4.1	64330	5.594E-05	2.294E-04	200
114.0	5.4	65135	5.664E-05	2.322E-04	200
114.0	6.8	48216	4.193E-05	1.719E-04	200
114.0	8.1	57743	5.021E-05	2.059E-04	200
114.0	9.4	49814	4.332E-05	1.776E-04	200
114.0	10.8	44337	3.855E-05	1.581E-04	200
114.0	13.5	33522	2.915E-05	1.195E-04	200
114.0	16.2	19419	1.689E-05	6.924E-05	200
114.0	18.9	12949	1.126E-05	4.617E-05	200
114.0	21.6	5605	4.874E-06	1.908E-05	200
114.0	24.3	2778	2.416E-06	9.905E-06	200
114.0	27.0	1425	1.239E-06	5.081E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	FU/O 1/SEC.M	DISTANCE METERS
122.0	0.7	344183	2.993E-04	1.227E-03	200
122.0	1.4	141158	1.227E-04	5.033E-04	200
122.0	2.7	141351	1.229E-04	5.039E-04	200
122.0	4.1	156859	1.364E-04	5.592E-04	200
122.0	5.4	92516	7.175E-05	2.942E-04	200
122.0	6.8	126448	1.100E-04	4.508E-04	200
F 122.0	8.1	115402	1.004E-04	4.114E-04	200
122.0	9.4	107325	9.333E-05	3.826E-04	200
122.0	10.8	72272	6.285E-05	2.577E-04	200
122.0	13.5	50409	4.383E-05	1.797E-04	200
122.0	16.2	31716	2.758E-05	1.131E-04	200
122.0	18.9	17354	1.509E-05	6.187E-05	200
122.0	21.6	9873	8.586E-06	3.520E-05	200
122.0	24.3	3306	2.875E-06	1.179E-05	200
122.0	27.0	1877	1.650E-06	6.767E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	FU/O 1/SEC.M	DISTANCE METERS
130.0	0.7	136934	1.191E-04	4.882E-04	200
130.0	1.4	58102	5.052E-05	2.071E-04	200
130.0	2.7	46780	4.068E-05	1.668E-04	200
130.0	4.1	66255	5.761E-05	2.362E-04	200
130.0	5.4	67426	5.863E-05	2.409E-04	200
130.0	6.8	53727	4.672E-05	1.915E-04	200
130.0	8.1	57040	4.960E-05	2.034E-04	200
130.0	9.4	50400	4.383E-05	1.797E-04	200
F 130.0	10.8	37478	3.259E-05	1.336E-04	200
130.0	13.5	31707	2.757E-05	1.130E-04	200
130.0	16.2	17453	1.518E-05	6.222E-05	200
130.0	18.9	12623	1.098E-05	4.501E-05	200
130.0	21.6	5679	4.939E-06	2.025E-05	200
130.0	24.3	2215	1.926E-06	7.897E-06	200
130.0	27.0	1021	8.880E-07	3.641E-06	200

TEST F150 APRIL 11, 1961 0515 TO 0545 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ARC SAMPLED HT 1.5M U= 4.1 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	FU/O 1/SEC.M	DISTANCE METERS
70.0	5	4.995E-09	2.048E-08	800
72.0	5	4.995E-09	2.048E-08	800
74.0	19	1.665E-08	6.827E-08	800
76.0	68	5.994E-08	2.458E-07	800
78.0	91	7.992E-08	3.277E-07	800
80.0	53	4.662E-08	1.912E-07	800
82.0	24	2.165E-08	8.875E-08	800
84.0	26	2.331E-08	9.558E-08	800
86.0	0	0.000E+00	0.000E+00	800
S 88.0	74	6.494E-08	2.662E-07	800
90.0	22	1.998E-08	8.192E-08	800
92.0	9	8.325E-09	3.413E-08	800
94.0	178	1.549E-07	6.349E-07	800
96.0	0	0.000E+00	0.000E+00	800
98.0	9	8.325E-09	3.413E-08	800
100.0	7	6.660E-09	2.731E-08	800
102.0	82	7.160E-08	2.936E-07	800
104.0	158	1.382E-07	5.666E-07	800
106.0	589	5.128E-07	2.103E-06	800
108.0	2876	2.501E-06	1.025E-05	800
110.0	9587	8.337E-06	3.418E-05	800
112.0	13955	1.214E-05	4.975E-05	800
114.0	10862	9.446E-06	3.873E-05	800
116.0	7661	6.662E-06	2.731E-05	800
118.0	9823	8.542E-06	3.502E-05	800
120.0	15278	1.329E-05	5.447E-05	800
122.0	22407	1.948E-05	7.989E-05	800
124.0	29680	2.581E-05	1.058E-04	800
126.0	18895	1.643E-05	6.737E-05	800
S 128.0	7682	6.680E-06	2.739E-05	800
130.0	3733	3.247E-06	1.331E-05	800
132.0	1528	1.329E-06	5.448E-06	800
134.0	158	1.382E-07	5.666E-07	800
136.0	22	1.998E-08	8.192E-08	800
138.0	0	0.000E+00	0.000E+00	800
140.0	3	3.330E-09	1.365E-08	800

CROSSWIND INTEGRATED= 3.77AE-03 1.549E-02
SEC/SEC.M 1/M

TOWER DATA FOLLOW....

TEST F150 APRIL 11, 1961 0515 TO 0545 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ARC U= 4.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	FU/O 1/SEC.M	DISTANCE METERS
98.0	1.0	16	1.457E-08	5.975E-08	800
98.0	2.1	0	0.000E+00	0.000E+00	800
98.0	4.2	3	2.733E-09	1.120E-08	800
98.0	6.3	1	9.109E-10	3.735E-09	800
98.0	8.4	2	1.822E-09	7.469E-09	800
98.0	10.5	8	7.287E-09	2.988E-08	800
98.0	12.6	5	4.554E-09	1.867E-08	800
98.0	14.7	1	9.109E-10	3.735E-09	800
98.0	16.9	1	9.109E-10	3.735E-09	800
98.0	21.0	0	0.000E+00	0.000E+00	800
98.0	25.2	0	0.000E+00	0.000E+00	800
98.0	29.4	5	4.470E-09	1.833E-08	800
98.0	33.6	0	0.000E+00	0.000E+00	800
98.0	37.8	1	1.990E-09	6.109E-09	800
98.0	42.0	0	0.000E+00	0.000E+00	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
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106.0	1.0	329	2.869E-07	1.174E-06	800
106.0	2.1	422	3.671E-07	1.505E-06	800
106.0	4.2	563	4.901E-07	2.009E-06	800
106.0	6.3	388	3.379E-07	1.386E-06	800
106.0	8.4	420	3.653E-07	1.498E-06	800
106.0	10.5	456	3.971E-07	1.628E-06	800
106.0	12.6	342	2.979E-07	1.221E-06	800
106.0	14.7	340	2.960E-07	1.214E-06	800
106.0	16.8	404	3.516E-07	1.442E-06	800
106.0	21.0	256	2.232E-07	9.150E-07	800
106.0	25.2	177	1.542E-07	6.323E-07	800
106.0	29.4	191	1.661E-07	6.811E-07	800
106.0	33.6	101	4.791E-08	3.604E-07	800
106.0	37.8	97	4.493E-08	3.482E-07	800
106.0	42.0	59	5.140E-08	2.108E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
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114.0	1.0	6409	5.574E-06	2.285E-05	800
114.0	2.1	6915	6.014E-06	2.466E-05	800
114.0	4.2	7487	6.511E-06	2.670E-05	800
114.0	6.3	7957	6.920E-06	2.837E-05	800
114.0	8.4	7648	6.648E-06	2.726E-05	800
114.0	10.5	8090	7.343E-06	3.027E-05	800
114.0	12.6	9203	4.003E-06	3.281E-05	800
114.0	14.7	8088	7.034E-06	2.884E-05	800
114.0	16.8	5488	4.766E-06	1.954E-05	800
114.0	21.0	6779	5.461E-06	2.239E-05	800
114.0	25.2	4145	3.640E-06	1.492E-05	800
114.0	29.4	3013	2.620E-06	1.074E-05	800
114.0	33.6	2322	2.020E-06	8.280E-06	800
114.0	37.8	1129	9.819E-07	4.026E-06	800
114.0	42.0	1101	1.036E-06	4.249E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
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122.0	1.0	10435	9.074E-06	3.720E-05	800
122.0	2.1	12879	1.120E-05	4.592E-05	800
122.0	4.2	13857	1.205E-05	4.941E-05	800
122.0	6.3	14706	1.279E-05	5.243E-05	800
122.0	8.4	15625	1.359E-05	5.571E-05	800
122.0	10.5	8515	7.405E-06	3.034E-05	800
122.0	12.6	12788	1.109E-05	4.545E-05	800
122.0	14.7	13665	1.168E-05	4.872E-05	800
122.0	16.8	15495	1.347E-05	5.525E-05	800
122.0	21.0	12795	1.113E-05	4.562E-05	800
122.0	25.2	8019	6.974E-06	2.859E-05	800
122.0	29.4	5046	4.389E-06	1.799E-05	800
122.0	33.6	3979	3.468E-06	1.419E-05	800
122.0	37.8	2391	2.079E-06	8.525E-06	800
122.0	42.0	1389	1.208E-06	4.954E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
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130.0	1.0	1766	1.536E-06	4.297E-06	800
130.0	2.1	2288	1.987E-06	5.145E-06	800
130.0	4.2	2761	2.401E-06	6.444E-06	800
130.0	6.3	2961	2.575E-06	1.056E-05	800
130.0	8.4	2948	2.477E-06	1.015E-05	800
130.0	10.5	2422	2.107E-06	8.638E-06	800
130.0	12.6	2932	2.463E-06	1.010E-05	800
130.0	14.7	2868	2.494E-06	1.023E-05	800
130.0	16.8	1868	1.625E-06	6.663E-06	800
130.0	21.0	1833	1.594E-06	6.536E-06	800
130.0	25.2	908	7.897E-07	3.238E-06	800
130.0	29.4	755	6.571E-07	2.694E-06	800
130.0	33.6	421	3.665E-07	1.503E-06	800
130.0	37.8	191	1.669E-07	6.842E-07	800
130.0	42.0	74	6.481E-08	2.657E-07	800

TEST F150 APRIL 11, 1961 0515 TO 0545 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
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90.0	37	3.244E-08	1.346E-07	1600
91.0	37	3.244E-08	1.346E-07	1600
92.0	37	3.244E-08	1.346E-07	1600
93.0	31	2.758E-08	1.131E-07	1600
94.0	63	5.517E-08	2.262E-07	1600
95.0	83	7.224E-08	2.962E-07	1600
96.0	42	3.678E-08	1.508E-07	1600
97.0	48	4.203E-08	1.723E-07	1600
98.0	123	1.077E-07	4.416E-07	1600
99.0	141	1.235E-07	5.062E-07	1600
100.0	173	1.511E-07	6.193E-07	1600
101.0	246	2.141E-07	8.778E-07	1600
102.0	421	3.665E-07	1.503E-06	1600
103.0	581	5.057E-07	2.073E-06	1600
104.0	398	3.468E-07	1.422E-06	1600
105.0	675	5.871E-07	2.407E-06	1600
106.0	392	3.415E-07	1.400E-06	1600
107.0	984	8.564E-07	3.511E-06	1600
108.0	1702	1.480E-06	6.069E-06	1600
109.0	2623	2.282E-06	9.355E-06	1600
110.0	2725	2.370E-06	9.715E-06	1600
111.0	2697	2.346E-06	9.618E-06	1600
112.0	4492	3.906E-06	1.602E-05	1600
113.0	3802	3.306E-06	1.356E-05	1600
114.0	2351	2.045E-06	8.385E-06	1600
115.0	2838	2.468E-06	1.012E-05	1600
116.0	2720	2.366E-06	9.699E-06	1600
117.0	3256	2.832E-06	1.161E-05	1600
118.0	4468	3.845E-06	1.593E-05	1600
119.0	6246	5.431E-06	2.227E-05	1600
120.0	7093	6.168E-06	2.529E-05	1600
121.0	6102	5.307E-06	2.176E-05	1600
122.0	7193	6.255E-06	2.565E-05	1600
123.0	5663	4.924E-06	2.019E-05	1600
124.0	4777	4.155E-06	1.703E-05	1600
125.0	5626	4.893E-06	2.006E-05	1600
126.0	4995	4.344E-06	1.781E-05	1600
127.0	3422	2.976E-06	1.220E-05	1600
128.0	2664	2.317E-06	9.500E-06	1600
129.0	1638	1.425E-06	5.843E-06	1600
130.0	873	7.592E-07	3.113E-06	1600
131.0	459	3.993E-07	1.637E-06	1600
132.0	24	2.102E-08	8.617E-08	1600
133.0	9	7.881E-09	3.231E-08	1600
134.0	7	6.568E-09	2.693E-08	1600

CROSSWIND INTEGRATED= 7.307E-03 9.458E-03
SEC/SQ.M 1/M

TOWER DATA FOLLOW...

TEST F150 APRIL 11, 1961 0515 TO 0545 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC U= 4.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
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98.0	1.5	35	3.067E-08	1.257E-07	1600
98.0	3.1	38	3.381E-08	1.386E-07	1600
98.0	6.2	50	4.403E-08	1.805E-07	1600
98.0	9.3	42	7.156E-08	2.934E-07	1600
98.0	12.0	37	3.303E-08	1.354E-07	1600
98.0	15.5	35	3.067E-08	1.257E-07	1600
98.0	18.6	36	3.145E-08	1.290E-07	1600
98.0	21.7	66	5.819E-08	2.386E-07	1600
98.0	24.8	25	2.253E-08	9.238E-08	1600
98.0	31.0	6	5.302E-09	2.174E-08	1600
98.0	37.2	9	7.953E-09	3.261E-08	1600
98.0	43.8	10	9.278E-09	3.804E-08	1600
98.0	49.6	12	1.092E-08	4.477E-08	1600

AZIMUTH HEIGHT EXPOSURE E/O F/U/D DISTANCE
DEGREES METERS GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS

106.0	1.5	355	3.090E-07	1.267E-06	1600
106.0	3.1	630	5.481E-07	2.247E-06	1600
106.0	6.2	623	5.418E-07	2.221E-06	1600
106.0	9.3	640	5.740E-07	2.353E-06	1600
106.0	12.4	474	4.128E-07	1.693E-06	1600
106.0	15.5	552	4.804E-07	1.970E-06	1600
106.0	18.6	538	4.687E-07	1.921E-06	1600
106.0	21.7	518	4.506E-07	1.847E-06	1600
106.0	24.8	427	3.718E-07	1.524E-06	1600
106.0	31.0	292	2.545E-07	1.043E-06	1600
106.0	37.2	211	1.842E-07	7.554E-07	1600
106.0	43.4	174	1.518E-07	6.222E-07	1600
106.0	49.6	98	8.537E-08	3.500E-07	1600
106.0	55.8	71	6.204E-08	2.544E-07	1600
106.0	62.0	42	3.673E-08	1.506E-07	1600

AZIMUTH HEIGHT EXPOSURE E/O F/U/D DISTANCE
DEGREES METERS GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS

114.0	1.5	1511	1.314E-06	5.387E-06	1600
114.0	3.1	1384	1.204E-06	4.936E-06	1600
114.0	6.2	2082	1.811E-06	7.425E-06	1600
114.0	9.3	2159	1.877E-06	7.696E-06	1600
114.0	12.4	2218	1.929E-06	7.908E-06	1600
114.0	15.5	1907	1.658E-06	6.799E-06	1600
114.0	18.6	2097	1.824E-06	7.480E-06	1600
114.0	21.7	1465	1.275E-06	5.226E-06	1600
114.0	24.8	1249	1.121E-06	4.597E-06	1600
114.0	31.0	1258	1.094E-06	4.486E-06	1600
114.0	37.2	1126	9.795E-07	4.016E-06	1600
114.0	43.4	797	6.587E-07	2.701E-06	1600
114.0	49.6	415	3.613E-07	1.481E-06	1600
114.0	55.8	390	3.400E-07	1.394E-06	1600
114.0	62.0	349	2.695E-07	1.105E-06	1600

AZIMUTH HEIGHT EXPOSURE E/O F/U/D DISTANCE
DEGREES METERS GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS

122.0	1.5	3753	3.264E-06	1.338E-05	1600
122.0	3.1	4161	3.619E-06	1.488E-05	1600
122.0	6.2	5039	4.382E-06	1.797E-05	1600
122.0	9.3	4518	4.016E-06	1.646E-05	1600
122.0	12.4	4738	4.120E-06	1.689E-05	1600
122.0	15.5	4987	4.337E-06	1.778E-05	1600
122.0	18.6	5491	4.775E-06	1.958E-05	1600
122.0	21.7	3921	3.410E-06	1.398E-05	1600
122.0	24.8	4043	3.516E-06	1.441E-05	1600
122.0	31.0	3824	3.326E-06	1.363E-05	1600
122.0	37.2	2851	2.440E-06	1.017E-05	1600
122.0	43.4	2142	1.863E-06	7.638E-06	1600
122.0	49.6	952	8.284E-07	3.395E-06	1600
122.0	55.8	545	4.785E-07	1.945E-06	1600
122.0	62.0	276	2.407E-07	9.870E-07	1600

AZIMUTH HEIGHT EXPOSURE E/O F/U/D DISTANCE
DEGREES METERS GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS

130.0	1.5	427	3.719E-07	1.525E-06	1600
130.0	3.1	440	4.002E-07	1.641E-06	1600
130.0	6.2	459	3.995E-07	1.639E-06	1600
130.0	9.3	277	2.414E-07	9.898E-07	1600
130.0	12.4	713	6.204E-07	2.544E-06	1600
130.0	15.5	651	5.748E-07	2.357E-06	1600
130.0	18.6	709	6.173E-07	2.531E-06	1600
130.0	21.7	882	6.983E-07	2.863E-06	1600
130.0	24.8	644	5.779E-07	2.369E-06	1600
130.0	31.0	480	3.486E-07	1.429E-06	1600
130.0	37.2	307	2.671E-07	1.095E-06	1600
130.0	43.4	224	1.955E-07	8.016E-07	1600
130.0	49.6	101	8.785E-08	3.602E-07	1600
130.0	55.8	76	2.333E-08	9.564E-08	1600
130.0	62.0	5	4.963E-09	2.035E-08	1600

TEST F150 APRIL 11, 1961 0515 TO 0545 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M APC SAMPLER HT 1.5M UR 4.1 M/SEC AT 2M

AZIMUTH EXPOSURE E/O F/U/D DISTANCE
DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS

71.0	0	0.000E+00	0.000E+00	3200
72.0	4	3.793E-09	1.555E-08	3200
73.0	0	7.586E-10	3.110E-09	3200
74.0	5	4.552E-09	1.866E-08	3200
75.0	4	3.793E-09	1.555E-08	3200
76.0	6	6.069E-09	2.488E-08	3200
77.0	0	0.000E+00	0.000E+00	3200
78.0	5	4.552E-09	1.866E-08	3200
79.0	6	5.310E-09	2.177E-08	3200
80.0	1	1.517E-09	6.221E-09	3200
81.0	8	7.586E-09	3.110E-08	3200
82.0	7	6.828E-09	2.799E-08	3200
83.0	16	1.441E-08	5.910E-08	3200
84.0	18	1.593E-08	6.532E-08	3200
85.0	6	5.310E-09	2.177E-08	3200
86.0	21	1.897E-08	7.776E-08	3200
87.0	23	2.048E-08	8.398E-08	3200
88.0	25	2.200E-08	9.020E-08	3200
89.0	17	1.517E-08	6.221E-08	3200
90.0	46	4.021E-08	1.649E-07	3200
91.0	30	2.655E-08	1.089E-07	3200
92.0	33	2.883E-08	1.182E-07	3200
93.0	34	2.959E-08	1.213E-07	3200
94.0	41	3.641E-08	1.493E-07	3200
95.0	57	5.007E-08	2.053E-07	3200
96.0	89	7.814E-08	3.204E-07	3200
97.0	70	6.145E-08	2.519E-07	3200
98.0	95	8.345E-08	3.421E-07	3200
99.0	133	1.161E-07	4.759E-07	3200
100.0	221	1.927E-07	7.900E-07	3200
101.0	241	2.101E-07	8.616E-07	3200
102.0	246	2.147E-07	8.802E-07	3200
103.0	406	3.535E-07	1.449E-06	3200
104.0	333	2.898E-07	1.188E-06	3200
105.0	376	3.270E-07	1.341E-06	3200
106.0	570	4.961E-07	2.034E-06	3200
107.0	469	4.081E-07	1.673E-06	3200
108.0	498	4.332E-07	1.776E-06	3200
109.0	503	4.377E-07	1.795E-06	3200
110.0	328	2.860E-07	1.173E-06	3200
111.0	585	5.090E-07	2.087E-06	3200
112.0	518	4.506E-07	1.848E-06	3200
113.0	1213	1.055E-06	4.327E-06	3200
114.0	1109	9.650E-07	3.956E-06	3200
115.0	1122	9.764E-07	4.003E-06	3200
116.0	1276	1.110E-06	4.551E-06	3200
117.0	1522	1.324E-06	5.428E-06	3200
118.0	1355	1.179E-06	4.834E-06	3200
119.0	1262	1.098E-06	4.501E-06	3200
120.0	918	7.988E-07	3.275E-06	3200
121.0	1272	1.107E-06	4.538E-06	3200
122.0	655	5.697E-07	2.336E-06	3200
123.0	928	8.072E-07	3.309E-06	3200
124.0	844	7.344E-07	3.011E-06	3200
125.0	1094	9.513E-07	3.900E-06	3200
126.0	1163	1.012E-06	4.149E-06	3200
127.0	1343	1.168E-06	4.790E-06	3200
128.0	805	7.002E-07	2.871E-06	3200
129.0	256	2.230E-07	9.145E-07	3200
130.0	31	2.731E-08	1.120E-07	3200
131.0	6	6.069E-09	2.488E-08	3200
132.0	0	7.586E-10	3.110E-09	3200
133.0	2	2.276E-09	9.331E-09	3200
134.0	0	0.000E+00	0.000E+00	3200
135.0	3	3.035E-09	1.244E-08	3200
136.0	2	2.276E-09	9.331E-09	3200
137.0	1	1.517E-09	6.221E-09	3200
138.0	5	4.552E-09	1.866E-08	3200

CROSSWIND INTEGRATED* 1.181E-03 4.842E-03
SEC/SQ.M 1/M

TOWER DATA FOLLOW...

TEST FT50 APRIL 11, 1961 0515 TO 0545 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200V ARC U= 4.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	FU/O 1/SQ.M	DISTANCE METERS
98.0	1.5	73	6.416E-08	2.631E-07	3200
98.0	3.1	85	7.403E-08	3.035E-07	3200
98.0	6.2	71	6.197E-08	2.541E-07	3200
98.0	9.3	64	5.648E-08	2.316E-07	3200
98.0	12.4	99	8.660E-08	3.552E-07	3200
98.0	15.5	93	7.293E-08	2.990E-07	3200
98.0	18.6	61	5.370E-08	2.203E-07	3200
98.0	21.7	26	2.303E-08	9.443E-08	3200
98.0	24.8	69	6.004E-08	2.462E-07	3200
98.0	31.0	43	3.740E-08	1.534E-07	3200
98.0	37.2	24	2.165E-08	8.878E-08	3200
98.0	43.4	11	9.843E-09	4.036E-08	3200
98.0	49.6	4	4.018E-09	1.647E-08	3200
98.0	55.8	8	7.232E-09	2.965E-08	3200
98.0	62.0	1	1.205E-09	4.942E-09	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	FU/O 1/SQ.M	DISTANCE METERS
106.0	1.5	396	3.449E-07	1.414E-06	3200
106.0	3.1	549	4.782E-07	1.961E-06	3200
106.0	6.2	596	5.188E-07	2.127E-06	3200
106.0	9.3	670	5.829E-07	2.390E-06	3200
106.0	12.4	474	4.124E-07	1.691E-06	3200
106.0	15.5	643	5.593E-07	2.293E-06	3200
106.0	18.6	521	4.535E-07	1.859E-06	3200
106.0	21.7	496	4.316E-07	1.769E-06	3200
106.0	24.8	431	3.750E-07	1.538E-06	3200
106.0	31.0	339	2.953E-07	1.211E-06	3200
106.0	37.2	238	2.072E-07	8.495E-07	3200
106.0	43.4	238	2.077E-07	8.515E-07	3200
106.0	49.6	91	7.915E-08	3.245E-07	3200
106.0	55.8	50	4.379E-08	1.796E-07	3200
106.0	62.0	2	2.009E-09	8.236E-09	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	FU/O 1/SQ.M	DISTANCE METERS
114.0	1.5	689	5.980E-07	2.457E-06	3200
114.0	3.1	998	8.681E-07	3.559E-06	3200
114.0	6.2	835	7.266E-07	2.979E-06	3200
114.0	9.3	842	7.326E-07	3.004E-06	3200
114.0	12.4	761	6.624E-07	2.716E-06	3200
114.0	15.5	825	7.178E-07	2.943E-06	3200
114.0	18.6	688	5.643E-07	2.314E-06	3200
114.0	21.7	586	5.100E-07	2.091E-06	3200
114.0	24.8	592	5.153E-07	2.113E-06	3200
114.0	31.0	384	3.347E-07	1.372E-06	3200
114.0	37.2	680	5.920E-07	2.427E-06	3200
114.0	43.4	621	5.409E-07	2.218E-06	3200
114.0	49.6	512	4.456E-07	1.827E-06	3200
114.0	55.8	228	1.989E-07	8.154E-07	3200
114.0	62.0	396	2.664E-07	1.092E-06	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	FU/O 1/SQ.M	DISTANCE METERS
122.0	1.5	372	3.241E-07	1.329E-06	3200
122.0	3.1	706	6.493E-07	2.662E-06	3200
122.0	6.2	688	5.643E-07	2.314E-06	3200
122.0	9.3	816	7.096E-07	2.909E-06	3200
122.0	12.4	1121	9.755E-07	4.000E-06	3200
122.0	15.5	998	8.681E-07	3.559E-06	3200
122.0	18.6	861	7.491E-07	3.071E-06	3200
122.0	21.7	1031	8.966E-07	3.676E-06	3200
122.0	24.8	372	3.238E-07	1.328E-06	3200
122.0	31.0	576	5.015E-07	2.056E-06	3200
122.0	37.2	402	4.282E-07	1.755E-06	3200
122.0	43.4	245	2.131E-07	8.737E-07	3200
122.0	49.6	236	2.057E-07	8.439E-07	3200
122.0	55.8	117	1.021E-07	4.184E-07	3200
122.0	62.0	98	8.598E-08	3.525E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	FU/O 1/SQ.M	DISTANCE METERS
130.0	1.5	20	1.810E-08	7.419E-08	3200
130.0	3.1	41	3.619E-08	1.488E-07	3200
130.0	6.2	30	2.632E-08	1.079E-07	3200
130.0	9.3	11	1.042E-08	4.272E-08	3200
130.0	12.4	17	1.481E-08	6.070E-08	3200
130.0	15.5	44	3.839E-08	1.574E-07	3200
130.0	18.6	35	3.126E-08	1.282E-07	3200
130.0	21.7	47	4.166E-08	1.709E-07	3200
130.0	24.8	16	1.476E-08	6.053E-08	3200
130.0	31.0	59	5.167E-08	2.119E-07	3200
130.0	37.2	41	3.593E-08	1.473E-07	3200
130.0	43.4	30	2.658E-08	1.090E-07	3200
130.0	49.6	12	1.085E-08	4.448E-08	3200
130.0	55.8	13	1.165E-08	4.777E-08	3200
130.0	62.0	9	8.936E-09	3.295E-08	3200

TEST FT50 APRIL 11, 1961 0515 TO 0545 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
12800V ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	FU/O 1/SQ.M	DISTANCE METERS
100.0	0	4.974E-10	2.039E-09	12800
2 102.0	48	4.203E-08	1.723E-07	12800
2 105.0	34	3.009E-08	1.234E-07	12800
4 107.6	44	3.830E-08	1.570E-07	12800
7 110.0	10	8.953E-09	3.671E-08	12800
2 112.0	18	1.567E-08	6.424E-08	12800
2 115.0	4	3.979E-09	1.631E-08	12800
7 120.0	8	7.461E-09	3.059E-08	12800
2 125.0	1	1.243E-09	5.098E-09	12800
135.0	2	2.238E-09	9.177E-09	12800

CROSSWIND INTEGRATED= 9.336E-05 SEC/SQ.M
1/M

30-SERIES EXPERIMENT: 51 (FT-51)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS. MANY OF THE
FILTERS ON THE TOWERS SHOWED SIGNS OF WEATHERING.

TEST FT51 MAY 1, 1961 1002 TO 1032 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
88.0	1	1.239E-10	3.955E-09	200		106.0	0.7	79769	3.959E-05	1.900E-04	200
90.0	31	1.565E-08	7.514E-08	200		106.0	1.4	38970	1.938E-05	9.283E-05	200
92.0	835	4.144E-07	1.989E-06	200		106.0	2.7	2155A	1.070E-05	5.135E-05	200
94.0	2518	1.250E-06	5.999E-06	200		106.0	4.1	23284	1.156E-05	5.547E-05	200
96.0	5535	2.747E-06	1.319E-05	200		106.0	5.4	22691	1.126E-05	5.405E-05	200
98.0	6250	3.102E-06	1.489E-05	200		T 106.0	6.8	3923	1.947E-06	9.346E-06	200
100.0	12122	6.016E-06	2.888E-05	200		T 106.0	8.1	5589	2.774E-06	1.332E-05	200
102.0	21610	1.072E-05	5.148E-05	200		T 106.0	9.4	5726	2.594E-06	1.245E-05	200
104.0	35650	1.769E-05	8.492E-05	200		T 106.0	10.8	2425	1.204E-06	5.777E-06	200
106.0	50537	2.508E-05	1.204E-04	200		T 106.0	13.5	3332	1.654E-06	7.939E-06	200
108.0	79524	3.947E-05	1.894E-04	200		106.0	16.2	1028A	5.106E-06	2.451E-05	200
110.0	90604	4.496E-05	2.158E-04	200		T 106.0	18.9	1926	9.562E-07	4.590E-06	200
112.0	99426	4.934E-05	2.368E-04	200		T 106.0	21.6	317	1.576E-07	7.566E-07	200
114.0	102690	5.096E-05	2.446E-04	200		T 106.0	24.3	1336	6.632E-07	3.183E-06	200
116.0	142186	7.056E-05	3.387E-04	200		T 106.0	27.0	1271	6.309E-07	3.028E-06	200
118.0	149859	7.437E-05	3.570E-04	200							
120.0	175413	8.705E-05	4.179E-04	200							
122.0	141412	7.018E-05	3.369E-04	200							
124.0	88059	4.370E-05	2.098E-04	200							
126.0	143016	7.098E-05	3.407E-04	200							
128.0	144729	7.183E-05	3.488E-04	200							
130.0	83766	4.157E-05	1.995E-04	200							
132.0	97902	4.859E-05	2.332E-04	200							
134.0	62543	3.106E-05	1.491E-04	200		114.0	0.7	172150	8.543E-05	4.101E-04	200
136.0	47868	2.376E-05	1.140E-04	200		114.0	1.4	81104	4.025E-05	1.932E-04	200
138.0	26635	1.322E-05	6.345E-05	200		Z 114.0	2.7	52092	2.585E-05	1.241E-04	200
140.0	18303	9.084E-06	4.360E-05	200		S 114.0	4.1	12095	6.003E-06	2.881E-05	200
142.0	14644	7.268E-06	3.489E-05	200		T 114.0	5.4	10317	5.121E-06	2.458E-05	200
144.0	6703	3.327E-06	1.597E-05	200		T 114.0	6.8	1076A	5.394E-06	2.565E-05	200
146.0	6348	3.151E-06	1.512E-05	200		114.0	8.1	23315	1.157E-05	5.554E-05	200
148.0	4314	2.141E-06	1.028E-05	200		114.0	9.4	15035	7.462E-06	3.582E-05	200
150.0	4909	2.436E-06	1.169E-05	200		S 114.0	10.8	19469	9.662E-06	4.638E-05	200
152.0	1205	5.982E-07	2.871E-06	200		T 114.0	13.5	4290	2.131E-06	1.023E-05	200
154.0	451	2.241E-07	1.076E-06	200		114.0	16.2	21605	1.072E-05	5.147E-05	200
156.0	44	2.225E-08	1.068E-07	200		S 114.0	18.9	11353	5.635E-06	2.705E-05	200
158.0	0	0.000E+00	0.000E+00	200		S 114.0	21.6	12910	6.407E-06	3.075E-05	200
						T 114.0	24.3	3184	1.581E-06	7.587E-06	200
						114.0	27.0	8472	4.205E-06	2.018E-05	200

CROSSWIND INTEGRATED= 6.871E-03 3.106E-02
SEC/30.M 1/M

TOWER DATA FOLLOW....

TEST FT51 MAY 1, 1961 1002 TO 1032 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 4.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
98.0	0.7	12087	5.999E-06	2.879E-05	200	122.0	1.4	91392	4.536E-05	2.177E-04	200
98.0	1.4	5280	2.621E-06	1.258E-05	200	122.0	2.7	72146	3.582E-05	1.720E-04	200
98.0	2.7	3593	1.743E-06	8.559E-06	200	S 122.0	4.1	62722	3.113E-05	1.494E-04	200
T 98.0	4.1	1149	5.792E-07	2.737E-06	200	122.0	5.4	41715	2.070E-05	9.937E-05	200
T 98.0	5.4	470	2.335E-07	1.121E-06	200	T 122.0	6.8	20733	1.029E-05	4.939E-05	200
T 98.0	6.8	493	2.451E-07	1.177E-06	200	Z 122.0	8.1	52311	2.596E-05	1.246E-04	200
T 98.0	8.1	1395	6.925E-07	3.324E-06	200	T 122.0	9.4	11217	5.567E-06	2.672E-05	200
T 98.0	9.4	552	2.741E-07	1.316E-06	200	122.0	10.8	52830	2.622E-05	1.259E-04	200
T 98.0	10.8	574	2.851E-07	1.369E-06	200	S 122.0	13.5	19643	9.749E-06	4.679E-05	200
T 98.0	13.5	496	2.463E-07	1.182E-06	200	Z 122.0	16.2	21896	1.087E-05	5.216E-05	200
T 98.0	16.2	470	2.335E-07	1.121E-06	200	T 122.0	18.9	19604	9.729E-06	4.670E-05	200
T 98.0	18.9	450	2.237E-07	1.074E-06	200	S 122.0	21.6	7389	3.518E-06	1.689E-05	200
98.0	21.6	539	2.677E-07	1.285E-06	200	S 122.0	24.3	5301	2.631E-06	1.263E-05	200
S 98.0	24.3	211	1.048E-07	5.030E-07	200	S 122.0	27.0	10234	5.079E-06	2.438E-05	200
S 98.0	27.0	265	1.317E-07	6.320E-07	200						

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
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130.0	0.7	167796	8.327E-05	3.997E-04	200
130.0	1.4	69558	3.452E-05	1.657E-04	200
130.0	2.7	59678	2.962E-05	1.422E-04	200
130.0	4.1	58531	2.995E-05	1.394E-04	200
130.0	5.4	52872	2.624E-05	1.260E-04	200
130.0	6.8	43106	2.139E-05	1.027E-04	200
2 130.0	8.1	37819	1.877E-05	9.009E-05	200
130.0	9.4	29149	1.447E-05	6.944E-05	200
130.0	10.8	37121	1.842E-05	8.843E-05	200
130.0	13.5	33959	1.685E-05	8.090E-05	200
130.0	16.2	34551	1.715E-05	8.231E-05	200
130.0	18.9	22369	1.110E-05	5.329E-05	200
Z 130.0	21.6	14707	7.299E-06	3.503E-05	200
T 130.0	24.3	4912	2.438E-06	1.170E-05	200
130.0	27.0	13935	6.916E-06	3.320E-05	200

TOWER DATA FOLLOW....

TEST FT51 MAY 1, 1961 1002 TO 1032 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC U= 4.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
106.0	1.0	211	1.044E-07	5.032E-07	800
106.0	2.1	108	9.866E-08	4.736E-07	800
S 106.0	4.2	116	5.774E-08	2.771E-07	800
106.0	6.3	149	7.400E-08	3.552E-07	800
106.0	8.4	116	5.774E-08	2.771E-07	800
T 106.0	10.5	63	3.139E-08	1.507E-07	800
S 106.0	12.6	115	5.718E-08	2.745E-07	800
106.0	14.7	402	1.996E-07	9.579E-07	800
T 106.0	16.8	84	4.204E-08	2.018E-07	800
T 106.0	21.0	159	7.904E-08	3.794E-07	800
S 106.0	25.2	173	8.630E-08	4.142E-07	800
106.0	29.4	282	1.404E-07	6.737E-07	800
Z 106.0	33.6	290	1.440E-07	6.912E-07	800
Z 106.0	37.8	388	1.929E-07	9.258E-07	800
T 106.0	42.0	41	2.079E-08	9.981E-08	800

TEST FT51 MAY 1, 1961 1002 TO 1032 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
72.0	30	1.514E-08	7.269E-08	800
74.0	36	1.833E-08	8.799E-08	800
76.0	41	2.072E-08	9.946E-08	800
78.0	118	5.898E-08	2.831E-07	800
80.0	110	5.499E-08	2.640E-07	800
82.0	93	4.623E-08	2.219E-07	800
84.0	49	2.471E-08	1.186E-07	800
86.0	85	4.224E-08	2.028E-07	800
88.0	0	0.000E+00	0.000E+00	800
90.0	49	2.471E-08	1.186E-07	800
92.0	28	1.435E-08	6.886E-08	800
94.0	0	0.000E+00	0.000E+00	800
96.0	44	2.232E-08	1.071E-07	800
98.0	0	0.000E+00	0.000E+00	800
100.0	4	2.391E-09	1.148E-08	800
102.0	20	1.036E-08	4.973E-08	800
104.0	46	2.311E-08	1.109E-07	800
106.0	189	9.404E-08	4.514E-07	800
108.0	643	3.196E-07	1.534E-06	800
110.0	1345	6.679E-07	3.206E-06	800
112.0	1832	9.094E-07	4.365E-06	800
114.0	2975	1.477E-06	7.089E-06	800
116.0	4591	2.279E-06	1.094E-05	800
118.0	4607	2.287E-06	1.098E-05	800
120.0	5352	2.656E-06	1.275E-05	800
122.0	4678	2.322E-06	1.114E-05	800
124.0	3947	1.959E-06	9.403E-06	800
126.0	3231	1.604E-06	7.697E-06	800
128.0	2869	1.424E-06	6.836E-06	800
130.0	2449	1.215E-06	5.834E-06	800
132.0	3075	1.526E-06	7.326E-06	800
134.0	1544	7.647E-07	3.680E-06	800
136.0	746	3.706E-07	1.779E-06	800
138.0	1421	7.053E-07	3.386E-06	800
140.0	2532	1.257E-06	6.033E-06	800
142.0	571	2.837E-07	1.362E-06	800
144.0	266	1.323E-07	6.350E-07	800
146.0	56	2.789E-08	1.339E-07	800
148.0	0	0.000E+00	0.000E+00	800

CROSSWIND INTEGRATED* 6.887E-04 3.306E-03
SEC/SQ.M 1/M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
114.0	1.0	2329	1.156E-06	5.544E-06	800
114.0	2.1	2573	1.277E-06	6.130E-06	800
T 114.0	4.2	328	1.631E-07	7.830E-07	800
114.0	6.3	2753	1.367E-06	6.560E-06	800
114.0	8.4	2951	1.465E-06	7.031E-06	800
114.0	10.5	3184	1.580E-06	7.585E-06	800
114.0	12.6	3011	1.494E-06	7.174E-06	800
114.0	14.7	3123	1.550E-06	7.440E-06	800
114.0	16.8	2978	1.478E-06	7.096E-06	800
S 114.0	21.0	1692	8.397E-07	4.031E-06	800
114.0	25.2	2419	1.201E-06	5.764E-06	800
114.0	29.4	2706	1.343E-06	6.448E-06	800
S 114.0	33.6	2219	1.102E-06	5.288E-06	800
114.0	37.8	1828	9.077E-07	4.357E-06	800
114.0	42.0	2110	1.048E-06	5.028E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
S 122.0	1.0	2408	1.240E-06	5.952E-06	800
122.0	2.1	3646	1.810E-06	8.686E-06	800
T 122.0	4.2	1112	5.522E-07	2.450E-06	800
122.0	6.3	4461	2.214E-06	1.063E-05	800
122.0	8.4	4596	2.281E-06	1.095E-05	800
122.0	10.5	1772	8.795E-07	4.222E-06	800
122.0	12.6	3917	1.944E-06	9.332E-06	800
T 122.0	14.7	587	2.915E-07	1.399E-06	800
122.0	16.8	3769	1.871E-06	8.979E-06	800
122.0	21.0	4177	2.073E-06	9.950E-06	800
122.0	25.2	3777	1.875E-06	8.998E-06	800
122.0	29.4	3713	1.843E-06	8.846E-06	800
122.0	33.6	2829	1.404E-06	6.740E-06	800
122.0	37.8	2761	1.370E-06	6.578E-06	800
T 122.0	42.0	871	4.325E-07	2.076E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
130.0	1.0	925	0.591E-07	2.204E-06	800
130.0	2.1	1711	8.493E-07	4.076E-06	800
130.0	4.2	1461	7.254E-07	3.482E-06	800
130.0	6.3	1125	5.583E-07	2.680E-06	800
130.0	8.4	2430	1.206E-06	5.790E-06	800
130.0	10.5	2125	1.055E-06	5.064E-06	800
130.0	12.6	2791	1.385E-06	6.649E-06	800
T 130.0	14.7	1396	6.929E-07	3.326E-06	800
130.0	16.8	3692	1.833E-06	8.796E-06	800
130.0	21.9	2178	1.081E-06	5.190E-06	800
130.0	25.2	2022	1.090E-06	4.818E-06	800
130.0	29.4	2600	1.313E-06	6.301E-06	800
130.0	33.6	2141	1.083E-06	5.198E-06	800
130.0	37.8	1462	7.257E-07	3.483E-06	800
130.0	42.0	2692	1.336E-06	6.413E-06	800

TOWER DATA FOLLOW....

TEST F151 MAY 1, 1961 1002 TO 1032 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC U= 4.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	1.5	279	1.385E-07	6.649E-07	1600
114.0	3.1	168	8.374E-08	4.019E-07	1600
114.0	6.2	260	1.311E-07	6.293E-07	1600
114.0	9.3	223	1.110E-07	5.329E-07	1600
114.0	12.4	45	2.249E-08	1.079E-07	1600
T 114.0	15.5	63	3.158E-08	1.516E-07	1600
T 114.0	18.6	100	5.168E-08	2.481E-07	1600
T 114.0	21.7	57	2.871E-08	1.378E-07	1600
T 114.0	24.8	3	1.795E-09	8.616E-09	1600
T 114.0	31.0	66	3.276E-08	1.573E-07	1600
T 114.0	37.2	58	2.917E-08	1.400E-07	1600
T 114.0	43.4	70	3.500E-08	1.680E-07	1600
T 114.0	49.6	17	8.839E-09	4.243E-08	1600
T 114.0	55.8	16	8.418E-09	4.041E-08	1600
T 114.0	62.0	47	2.357E-08	1.131E-07	1600

TEST F151 MAY 1, 1961 1002 TO 1032 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	9	4.518E-09	2.169E-08	1600
107.0	18	9.036E-09	4.337E-08	1600
108.0	50	2.517E-08	1.208E-07	1600
109.0	136	6.777E-08	3.253E-07	1600
110.0	172	8.585E-08	4.121E-07	1600
111.0	279	1.385E-07	6.661E-07	1600
S 112.0	225	1.117E-07	5.360E-07	1600
113.0	215	1.071E-07	5.143E-07	1600
114.0	435	2.162E-07	1.038E-06	1600
115.0	456	2.266E-07	1.087E-06	1600
116.0	678	3.369E-07	1.617E-06	1600
117.0	763	3.789E-07	1.819E-06	1600
118.0	780	3.873E-07	1.859E-06	1600
119.0	762	3.782E-07	1.816E-06	1600
120.0	786	3.905E-07	1.874E-06	1600
121.0	795	3.950E-07	1.896E-06	1600
122.0	837	4.157E-07	1.995E-06	1600
123.0	535	2.659E-07	1.276E-06	1600
124.0	508	2.724E-07	1.307E-06	1600
125.0	691	3.434E-07	1.648E-06	1600
126.0	643	3.195E-07	1.534E-06	1600
127.0	479	2.382E-07	1.143E-06	1600
128.0	570	2.830E-07	1.360E-06	1600
129.0	404	2.007E-07	9.635E-07	1600
130.0	420	2.085E-07	1.001E-06	1600
131.0	217	1.078E-07	5.174E-07	1600
132.0	274	1.362E-07	6.537E-07	1600
133.0	236	1.175E-07	5.639E-07	1600
134.0	167	8.326E-08	3.997E-07	1600
135.0	197	9.811E-08	4.709E-07	1600
136.0	189	9.424E-08	4.523E-07	1600
137.0	135	6.713E-08	3.222E-07	1600
138.0	24	1.226E-08	5.887E-08	1600
139.0	75	3.744E-08	1.797E-07	1600
140.0	35	1.743E-08	8.365E-08	1600
141.0	10	5.164E-09	2.479E-08	1600
142.0	9	4.518E-09	2.169E-08	1600

CROSSWIND INTEGRATED= 1.840E-04
SEC/SQ.M 1/M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
122.0	1.5	959	2.282E-07	1.096E-06	1600
Z 122.0	3.1	230	1.144E-07	5.489E-07	1600
122.0	6.2	131	6.508E-08	3.124E-07	1600
T 122.0	9.3	226	1.124E-07	5.397E-07	1600
T 122.0	12.4	156	7.752E-08	3.721E-07	1600
Z 122.0	15.5	229	1.139E-07	5.466E-07	1600
T 122.0	18.6	227	1.129E-07	5.420E-07	1600
T 122.0	21.7	36	1.818E-08	8.728E-08	1600
T 122.0	24.8	161	8.033E-08	3.856E-07	1600
Z 122.0	31.0	280	1.391E-07	6.678E-07	1600
122.0	37.2	76	3.815E-08	1.831E-07	1600
122.0	43.4	170	8.482E-08	4.071E-07	1600
122.0	49.6	322	1.599E-07	7.677E-07	1600
122.0	55.8	355	1.764E-07	8.465E-07	1600
122.0	62.0	279	1.389E-07	6.667E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
130.0	1.5	265	1.316E-07	6.316E-07	1600
130.0	3.1	188	9.379E-08	4.502E-07	1600
Z 130.0	6.2	42	2.105E-08	1.011E-07	1600
T 130.0	9.3	1	9.570E-10	4.594E-09	1600
T 130.0	12.4	41	2.058E-08	9.876E-08	1600
T 130.0	15.5	72	3.589E-08	1.723E-07	1600
130.0	18.6	190	9.474E-08	4.598E-07	1600
Z 130.0	21.7	260	1.292E-07	6.201E-07	1600
T 130.0	24.8	42	2.189E-08	1.012E-07	1600
T 130.0	31.0	56	2.782E-08	1.336E-07	1600
T 130.0	37.2	106	5.296E-08	2.542E-07	1600
130.0	43.4	262	1.301E-07	6.247E-07	1600
Z 130.0	49.6	162	8.081E-08	3.879E-07	1600
T 130.0	55.8	19	9.681E-09	4.647E-08	1600
130.0	62.0	315	1.566E-07	7.515E-07	1600

TEST FT51 MAY 1, 1961 1002 TO 1032 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
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75.0	13	6.696E-09	3.214E-08	3200
76.0	0	3.939E-10	1.891E-09	3200
77.0	0	3.939E-10	1.891E-09	3200
78.0	5	2.757E-09	1.323E-08	3200
79.0	4	2.363E-09	1.134E-08	3200
80.0	7	3.545E-09	1.701E-08	3200
81.0	0	0.000E+00	0.000E+00	3200
82.0	3	1.969E-09	9.453E-09	3200
83.0	0	0.000E+00	0.000E+00	3200
84.0	16	8.271E-09	3.970E-08	3200
85.0	4	2.363E-09	1.134E-08	3200
86.0	34	1.733E-08	8.318E-08	3200
87.0	0	0.000E+00	0.000E+00	3200
88.0	2	1.182E-09	5.672E-09	3200
89.0	1	7.877E-10	3.781E-09	3200
90.0	7	3.939E-09	1.891E-08	3200
91.0	26	1.300E-08	6.239E-08	3200
92.0	0	0.000E+00	0.000E+00	3200
93.0	3	1.969E-09	9.453E-09	3200
94.0	2	1.182E-09	5.672E-09	3200
95.0	0	3.939E-10	1.891E-09	3200
96.0	0	3.939E-10	1.891E-09	3200
97.0	14	7.089E-09	3.403E-08	3200
98.0	0	0.000E+00	0.000E+00	3200
99.0	1	7.877E-10	3.781E-09	3200
100.0	1	7.877E-10	3.781E-09	3200
101.0	42	2.087E-08	1.002E-07	3200
102.0	0	3.939E-10	1.891E-09	3200
103.0	33	1.654E-08	7.940E-08	3200
104.0	3	1.969E-09	9.453E-09	3200
105.0	13	6.696E-09	3.214E-08	3200
106.0	3	1.969E-09	9.453E-09	3200
107.0	32	1.615E-08	7.751E-08	3200
108.0	2	1.182E-09	5.672E-09	3200
109.0	19	9.453E-09	4.537E-08	3200
110.0	27	1.379E-08	6.617E-08	3200
111.0	28	1.418E-08	6.806E-08	3200
112.0	96	4.805E-08	2.306E-07	3200
113.0	80	3.978E-08	1.909E-07	3200
114.0	51	2.560E-08	1.229E-07	3200
115.0	102	5.081E-08	2.439E-07	3200
116.0	79	3.939E-08	1.891E-07	3200
117.0	115	5.750E-08	2.760E-07	3200
118.0	107	5.317E-08	2.552E-07	3200
119.0	108	5.396E-08	2.590E-07	3200
120.0	165	8.192E-08	3.932E-07	3200
121.0	206	1.024E-07	4.915E-07	3200
122.0	219	1.087E-07	5.218E-07	3200
123.0	138	6.893E-08	3.308E-07	3200
124.0	164	8.153E-08	3.913E-07	3200
125.0	140	6.971E-08	3.346E-07	3200
126.0	170	8.468E-08	4.065E-07	3200
127.0	95	4.726E-08	2.269E-07	3200
128.0	49	2.482E-08	1.172E-07	3200
129.0	94	4.687E-08	2.250E-07	3200
130.0	49	2.482E-08	1.172E-07	3200
131.0	38	1.930E-08	9.264E-08	3200
132.0	42	2.087E-08	1.002E-07	3200
133.0	27	1.379E-08	6.617E-08	3200
134.0	28	1.418E-08	6.806E-08	3200
135.0	68	3.387E-08	1.626E-07	3200
136.0	22	1.103E-08	5.293E-08	3200
137.0	24	1.221E-08	5.861E-08	3200
138.0	0	3.939E-10	1.891E-09	3200
139.0	1	7.877E-10	3.781E-09	3200
140.0	1	7.877E-10	3.781E-09	3200
141.0	6	3.151E-09	1.512E-08	3200

CROSSWIND INTEGRATED= 7.932E-05 SEC/30.M
3.807E-04 1/M

TOWER DATA FOLLOW...

TEST FT51 MAY 1, 1961 1002 TO 1032 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC U= 4.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
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114.0	1.5	30	1.499E-08	7.196E-08	3200
114.0	3.1	6	3.259E-09	1.564E-08	3200
T 114.0	6.2	6	3.259E-09	1.564E-08	3200
T 114.0	9.3	17	8.800E-09	4.224E-08	3200
T 114.0	12.4	13	6.518E-09	3.129E-08	3200
T 114.0	18.6	3	1.630E-09	7.822E-09	3200
T 114.0	21.7	9	4.889E-09	2.347E-08	3200
T 114.0	24.8	5	2.504E-09	1.202E-08	3200
T 114.0	31.0	7	3.756E-09	1.803E-08	3200
T 114.0	37.2	69	3.411E-08	1.637E-07	3200
T 114.0	43.4	18	9.076E-09	4.356E-08	3200
T 114.0	49.6	4	2.104E-09	1.010E-08	3200
S 114.0	62.0	46	2.284E-08	1.096E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
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122.0	1.5	107	5.313E-08	2.550E-07	3200
122.0	3.1	118	5.899E-08	2.832E-07	3200
122.0	6.2	130	6.691E-08	3.207E-07	3200
122.0	9.3	49	2.477E-08	1.189E-07	3200
T 122.0	12.4	19	9.778E-09	4.693E-08	3200
122.0	15.5	44	2.184E-08	1.048E-07	3200
T 122.0	18.6	36	1.825E-08	8.761E-08	3200
T 122.0	21.7	40	2.021E-08	9.699E-08	3200
122.0	24.8	148	7.355E-08	3.530E-07	3200
S 122.0	31.0	25	1.283E-08	6.159E-08	3200
T 122.0	37.2	38	1.909E-08	9.164E-08	3200
122.0	43.4	137	6.823E-08	3.275E-07	3200
T 122.0	49.6	29	1.473E-08	7.068E-08	3200
T 122.0	55.8	17	8.715E-09	4.183E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
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130.0	1.5	72	3.618E-08	1.737E-07	3200
130.0	3.1	71	3.553E-08	1.705E-07	3200
130.0	6.2	47	2.347E-08	1.126E-07	3200
130.0	9.3	104	5.182E-08	2.487E-07	3200
130.0	12.4	65	3.259E-08	1.564E-07	3200
130.0	15.5	65	3.227E-08	1.549E-07	3200
130.0	18.6	49	2.477E-08	1.189E-07	3200
130.0	21.7	37	1.858E-08	8.917E-08	3200
130.0	24.8	63	3.161E-08	1.517E-07	3200
130.0	31.0	17	8.763E-09	4.286E-08	3200
S 130.0	37.2	28	1.408E-08	6.760E-08	3200
130.0	43.4	21	1.068E-08	5.198E-08	3200
S 130.0	49.6	64	3.216E-08	1.543E-07	3200
S 130.0	55.8	25	1.262E-08	6.059E-08	3200
130.0	62.0	30	1.503E-08	7.213E-08	3200

30-SERIES EXPERIMENT: 52 (FT-52)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS. MANY OF THE
FILTERS ON THE TOWERS SHOWED SIGNS OF WEATHERING.

TEST FT52 MAY 12, 1961 0545 TO 0615 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
68.0	91	3.694E-08	1.404E-07	200
70.0	330	1.331E-07	5.059E-07	200
72.0	303	1.220E-07	4.635E-07	200
74.0	290	1.164E-07	4.439E-07	200
76.0	1754	7.061E-07	2.683E-06	200
78.0	1342	5.403E-07	2.053E-06	200
80.0	2945	1.185E-06	4.505E-06	200
82.0	3714	1.495E-06	5.680E-06	200
84.0	4832	1.945E-06	7.390E-06	200
86.0	8267	3.327E-06	1.264E-05	200
88.0	13951	5.614E-06	2.133E-05	200
90.0	17392	6.999E-06	2.660E-05	200
92.0	30731	1.237E-05	4.699E-05	200
94.0	44896	1.807E-05	6.865E-05	200
96.0	67252	2.706E-05	1.028E-04	200
98.0	101208	4.073E-05	1.548E-04	200
100.0	81202	3.269E-05	1.242E-04	200
102.0	141821	5.707E-05	2.169E-04	200
104.0	220785	8.845E-05	3.376E-04	200
106.0	246129	9.905E-05	3.764E-04	200
108.0	344504	1.386E-04	5.268E-04	200
110.0	374275	1.506E-04	5.723E-04	200
112.0	441364	1.776E-04	6.749E-04	200
114.0	324646	1.306E-04	4.964E-04	200
116.0	289387	1.165E-04	4.425E-04	200
118.0	233405	9.393E-05	3.569E-04	200
120.0	173502	6.982E-05	2.653E-04	200
122.0	85447	3.439E-05	1.307E-04	200
124.0	47048	1.893E-05	7.195E-05	200
126.0	25392	1.022E-05	3.883E-05	200
128.0	13985	5.628E-06	2.139E-05	200
130.0	10346	4.164E-06	1.582E-05	200
132.0	7605	3.061E-06	1.163E-05	200
134.0	3495	1.386E-06	5.268E-06	200
136.0	1419	5.712E-07	2.171E-06	200
138.0	217	8.762E-08	3.329E-07	200
140.0	78	3.178E-08	1.208E-07	200
142.0	6	2.577E-09	9.792E-09	200
S 144.0	2	8.590E-10	3.264E-09	200
146.0	4	1.714E-09	6.528E-09	200

CROSSWIND INTEGRATED= 9.455E-03 SEC/SQ.M 3.593E-02 1/M

TOWER DATA FOLLOW-...

TEST FT52 MAY 12, 1961 0545 TO 0615 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 3.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
98.0	0.7	132639	5.338E-05	2.028E-04	200
98.0	1.4	72583	2.921E-05	1.110E-04	200
98.0	2.7	61803	2.487E-05	9.451E-05	200
Z 98.0	4.1	74301	2.940E-05	1.136E-04	200
98.0	5.4	74859	3.012E-05	1.145E-04	200
S 98.0	6.8	45557	1.833E-05	6.967E-05	200
Z 98.0	8.1	44411	1.747E-05	6.791E-05	200
Z 98.0	10.8	44935	1.808E-05	6.871E-05	200
98.0	13.5	35172	1.415E-05	5.379E-05	200
98.0	16.2	34532	1.390E-05	5.281E-05	200
Z 98.0	18.9	23982	9.451E-06	3.667E-05	200
98.0	21.6	16860	6.761E-06	2.569E-05	200
98.0	24.3	13814	5.559E-06	2.112E-05	200
98.0	27.0	12099	4.865E-06	1.850E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
106.0	0.7	329526	1.326E-04	5.039E-04	200
S 106.0	1.4	161945	6.517E-05	2.476E-04	200
S 106.0	2.7	99365	3.999E-05	1.519E-04	200
106.0	4.1	154368	6.212E-05	2.361E-04	200
106.0	5.4	154033	6.199E-05	2.355E-04	200
Z 106.0	6.8	120156	4.835E-05	1.837E-04	200
Z 106.0	8.1	125270	5.041E-05	1.916E-04	200
S 106.0	9.4	87430	3.518E-05	1.337E-04	200
106.0	10.8	17035	6.855E-06	2.605E-05	200
106.0	13.5	73178	2.945E-05	1.119E-04	200
Z 106.0	16.2	62132	2.590E-05	9.501E-05	200
T 106.0	18.9	15023	6.044E-06	2.297E-05	200
T 106.0	21.6	14865	5.984E-06	2.274E-05	200
T 106.0	24.3	5096	2.051E-06	7.793E-06	200
106.0	27.0	34637	1.394E-05	5.297E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
114.0	0.7	469617	1.898E-04	7.181E-04	200
114.0	1.4	228833	9.209E-05	3.499E-04	200
Z 114.0	2.7	226455	9.113E-05	3.463E-04	200
114.0	4.1	235963	9.496E-05	3.608E-04	200
T 114.0	5.4	61638	2.480E-05	9.426E-05	200
114.0	6.8	185396	7.461E-05	2.835E-04	200
Z 114.0	8.1	165239	6.649E-05	2.527E-04	200
Z 114.0	9.4	189062	7.608E-05	2.891E-04	200
114.0	10.8	133106	5.356E-05	2.035E-04	200
114.0	13.5	137044	5.515E-05	2.096E-04	200
114.0	16.2	90235	3.631E-05	1.380E-04	200
114.0	18.9	81895	3.296E-05	1.252E-04	200
114.0	21.6	51544	2.075E-05	7.885E-05	200
114.0	24.3	38642	1.555E-05	5.909E-05	200
114.0	27.0	32686	1.315E-05	4.998E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
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122.0	0.7	103212	4.153E-05	1.578E-04	200
122.0	1.4	556A2	2.241E-05	8.515E-05	200
122.0	2.7	52002	2.094E-05	7.958E-05	200
122.0	4.1	69068	2.779E-05	1.056E-04	200
122.0	5.4	41121	1.655E-05	6.288E-05	200
122.0	6.8	60015	2.415E-05	9.177E-05	200
122.0	8.1	AA796	2.768E-05	1.052E-04	200
Z 122.0	9.4	AA652	2.602E-05	9.887E-05	200
122.0	10.8	62307	2.507E-05	9.528E-05	200
122.0	13.5	4416A	1.777E-05	6.754E-05	200
122.0	16.2	37702	1.517E-05	5.765E-05	200
122.0	18.9	229A2	2.248E-06	3.514E-05	200
122.0	21.6	16705	6.723E-06	2.555E-05	200
122.0	24.3	11743	4.726E-06	1.796E-05	200
122.0	27.0	10971	4.415E-06	1.678E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
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130.0	0.7	14613	5.981E-06	2.235E-05	200
130.0	1.4	7374	2.968E-06	1.128E-05	200
130.0	2.7	7005	2.816E-06	1.071E-05	200
130.0	4.1	5407	2.178E-06	8.268E-06	200
130.0	5.4	45A7	1.884E-06	7.010E-06	200
130.0	6.8	7850	3.159E-06	1.200E-05	200
130.0	8.1	7007	2.820E-06	1.072E-05	200
130.0	9.4	5077	2.044E-06	7.765E-06	200
130.0	10.8	3067	1.210E-06	4.599E-06	200
130.0	13.5	2767	1.114E-06	4.232E-06	200
130.0	16.2	2978	1.196E-06	4.554E-06	200
130.0	18.9	33A9	1.360E-06	5.183E-06	200
130.0	21.6	3245	1.306E-06	4.964E-06	200
130.0	24.3	4377	1.762E-06	6.694E-06	200
130.0	27.0	3273	1.317E-06	5.005E-06	200

TEST F152 MAY 12, 1961 0545 TO 0615 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
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86.0	2	8.309E-10	3.157E-09	800
88.0	105	4.238E-08	1.610E-07	800
90.0	80	3.241E-08	1.231E-07	800
92.0	266	1.072E-07	4.073E-07	800
94.0	458	1.845E-07	7.010E-07	800
96.0	375	1.512E-07	5.747E-07	800
98.0	1036	4.171E-07	1.585E-06	800
100.0	3621	1.457E-06	5.538E-06	800
102.0	7738	3.110E-06	1.183E-05	800
104.0	12023	4.838E-06	1.839E-05	800
106.0	16458	6.623E-06	2.517E-05	800
108.0	26524	1.067E-05	4.056E-05	800
110.0	28573	1.150E-05	4.369E-05	800
112.0	24055	9.680E-06	3.678E-05	800
114.0	15985	6.433E-06	2.445E-05	800
116.0	16677	6.711E-06	2.550E-05	800
118.0	9000	3.622E-06	1.376E-05	800
120.0	4453	1.792E-06	6.811E-06	800
122.0	962	3.872E-07	1.471E-06	800
124.0	1284	5.168E-07	1.964E-06	800
126.0	204	8.224E-08	3.126E-07	800
128.0	169	6.813E-08	2.589E-07	800
130.0	175	7.063E-08	2.684E-07	800
132.0	2	8.309E-10	3.157E-09	800

CROSSWIND INTEGRATED= 1.913E-03 7.270E-03
SEC/SQ.M 1/M

TOFFER DATA FOLLOW....

TEST F152 MAY 12, 1961 0545 TO 0615 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ARC HT= 3.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
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98.0	1.0	997	3.653E-07	1.389E-06	800
98.0	2.1	706	2.844E-07	1.081E-06	800
98.0	4.2	921	3.710E-07	1.410E-06	800
98.0	6.3	889	3.579E-07	1.369E-06	800
98.0	8.4	1108	4.463E-07	1.696E-06	800
98.0	10.5	780	3.140E-07	1.193E-06	800
98.0	12.6	1399	5.631E-07	2.140E-06	800
98.0	14.7	963	3.876E-07	1.473E-06	800
Z 98.0	16.8	914	3.682E-07	1.399E-06	800
Z 98.0	21.0	655	2.639E-07	1.003E-06	800
Z 98.0	25.2	701	2.824E-07	1.073E-06	800
Z 98.0	29.4	429	1.727E-07	6.561E-07	800
Z 98.0	33.6	960	3.866E-07	1.469E-06	800
Z 98.0	37.8	546	2.201E-07	8.363E-07	800
Z 98.0	42.0	462	1.861E-07	7.070E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
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106.0	1.0	12061	4.854E-06	1.844E-05	800
106.0	2.1	11597	4.667E-06	1.774E-05	800
106.0	4.2	12665	5.097E-06	1.937E-05	800
106.0	6.3	9143	3.679E-06	1.398E-05	800
106.0	8.4	14522	5.844E-06	2.221E-05	800
106.0	10.5	16934	6.815E-06	2.590E-05	800
106.0	12.6	20A7	8.241E-07	3.132E-06	800
106.0	14.7	13348	5.372E-06	2.041E-05	800
106.0	16.8	12705	5.113E-06	1.943E-05	800
106.0	21.0	11369	4.575E-06	1.739E-05	800
106.0	25.2	9923	3.993E-06	1.518E-05	800
106.0	29.4	7276	2.928E-06	1.113E-05	800
Z 106.0	33.6	5548	2.233E-06	8.405E-06	800
Z 106.0	37.8	5373	2.162E-06	8.216E-06	800
Z 106.0	42.0	4896	1.970E-06	7.488E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
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114.0	1.0	12757	5.134E-06	1.951E-05	800
114.0	2.1	11616	4.675E-06	1.776E-05	800
114.0	4.2	13422	5.401E-06	2.052E-05	800
114.0	6.3	12000	4.829E-06	1.835E-05	800
114.0	8.4	15788	7.561E-06	2.873E-05	800
114.0	10.5	13065	5.258E-06	1.998E-05	800
Z 114.0	12.6	11903	4.790E-06	1.820E-05	800
Z 114.0	14.7	11008	4.430E-06	1.683E-05	800
114.0	16.8	16001	6.430E-06	2.447E-05	800
114.0	21.0	10675	4.296E-06	1.633E-05	800
Z 114.0	25.2	7839	3.155E-06	1.199E-05	800
Z 114.0	29.4	8548	3.440E-06	1.307E-05	800
114.0	33.6	8101	3.260E-06	1.239E-05	800
114.0	37.8	8977	3.613E-06	1.373E-05	800
114.0	42.0	7792	3.015E-06	1.146E-05	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	FU/Q 1/SQ.M	DISTANCE METERS
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122.0	1.0	933	3.756E-07	1.427E-06	800
122.0	2.1	888	3.573E-07	1.358E-06	800
7 122.0	4.2	924	3.722E-07	1.414E-06	800
122.0	6.3	873	3.516E-07	1.336E-06	800
8 122.0	8.4	631	2.542E-07	9.859E-07	800
122.0	10.5	526	2.120E-07	8.057E-07	800
122.0	12.6	1084	4.366E-07	1.659E-06	800
122.0	14.7	1206	4.856E-07	1.845E-06	800
122.0	16.8	1528	6.150E-07	2.337E-06	800
122.0	21.0	1040	4.184E-07	1.592E-06	800
122.0	25.2	1189	4.788E-07	1.820E-06	800
122.0	29.4	867	3.489E-07	1.326E-06	800
122.0	33.6	777	3.129E-07	1.189E-06	800
122.0	37.8	795	3.201E-07	1.216E-06	800
122.0	42.0	844	3.397E-07	1.291E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	FU/Q 1/SQ.M	DISTANCE METERS
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130.0	1.0	38	1.539E-08	5.847E-08	800
8 130.0	2.1	56	2.280E-08	8.463E-08	800
130.0	4.2	172	6.953E-08	2.642E-07	800
130.0	6.3	75	3.021E-08	1.148E-07	800
130.0	8.4	124	5.015E-08	1.906E-07	800
7 130.0	10.5	36	1.482E-08	5.631E-08	800
130.0	12.6	48	1.938E-08	7.363E-08	800
130.0	14.7	63	2.565E-08	9.746E-08	800
130.0	16.8	96	3.876E-08	1.473E-07	800
130.0	21.0	55	2.223E-08	8.446E-08	800
130.0	25.2	66	2.680E-08	1.018E-07	800
130.0	29.4	57	2.319E-08	8.814E-08	800
130.0	33.6	97	3.917E-08	1.489E-07	800
130.0	37.8	44	1.804E-08	6.855E-08	800
130.0	42.0	12	5.154E-09	1.959E-08	800

TEST FT52 MAY 12, 1961 0545 TO 0615 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	FU/Q 1/SQ.M	DISTANCE METERS
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91.0	0	0.000E+00	0.000E+00	1600
92.0	11	0.537E-09	1.724E-08	1600
93.0	37	1.491E-08	5.665E-08	1600
F 94.0	0	0.000E+00	0.000E+00	1600
95.0	9	3.889E-09	1.478E-08	1600
96.0	40	1.620E-08	6.157E-08	1600
97.0	75	3.046E-08	1.158E-07	1600
98.0	3	1.296E-09	4.926E-09	1600
99.0	1	6.481E-10	2.463E-09	1600
100.0	43	1.750E-08	6.650E-08	1600
101.0	75	3.046E-08	1.158E-07	1600
102.0	22	9.074E-09	3.448E-08	1600
103.0	963	3.876E-07	1.473E-06	1600
104.0	1243	5.084E-07	1.901E-06	1600
105.0	2731	1.180E-06	4.482E-06	1600
106.0	3581	1.401E-06	5.477E-06	1600
107.0	4326	1.741E-06	6.615E-06	1600
108.0	4194	1.688E-06	6.413E-06	1600
109.0	6661	2.681E-06	1.019E-05	1600
110.0	6551	2.637E-06	1.002E-05	1600
111.0	7297	2.937E-06	1.116E-05	1600
112.0	7168	2.885E-06	1.096E-05	1600
113.0	7147	2.876E-06	1.093E-05	1600
114.0	5525	2.224E-06	8.450E-06	1600
115.0	4467	1.798E-06	6.832E-06	1600
116.0	3652	1.470E-06	5.586E-06	1600
117.0	2552	1.027E-06	3.904E-06	1600
118.0	1348	5.425E-07	2.061E-06	1600
119.0	752	3.027E-07	1.150E-06	1600
120.0	141	5.704E-08	2.167E-07	1600
121.0	214	8.620E-08	3.276E-07	1600
122.0	169	6.805E-08	2.586E-07	1600
123.0	111	4.472E-08	1.699E-07	1600
124.0	56	2.268E-08	8.620E-08	1600
125.0	104	4.213E-08	1.601E-07	1600
126.0	45	1.815E-08	6.896E-08	1600
127.0	86	3.500E-08	1.330E-07	1600
128.0	3	1.296E-09	4.926E-09	1600
129.0	4	1.944E-09	7.389E-09	1600

CROSSWIND INTEGRATED= 8.049E-04 3.059E-03
SEC/SQ.M 1/M

TOWER DATA FOLLOWING...

TEST FT52 MAY 12, 1961 0545 TO 0615 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC U= 3.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	FU/Q 1/SQ.M	DISTANCE METERS
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98.0	1.5	75	3.057E-08	1.162E-07	1600
98.0	3.1	43	1.740E-08	6.613E-08	1600
T 98.0	6.2	40	1.646E-08	6.255E-08	1600
98.0	9.3	47	1.928E-08	7.324E-08	1600
98.0	12.4	77	3.104E-08	1.180E-07	1600
T 98.0	15.5	40	1.646E-08	6.255E-08	1600
98.0	18.6	115	4.556E-08	1.769E-07	1600
98.0	21.7	104	4.186E-08	1.591E-07	1600
98.0	24.8	53	2.159E-08	8.204E-08	1600
98.0	31.0	64	2.591E-08	9.844E-08	1600
98.0	37.2	106	4.275E-08	1.624E-07	1600
T 98.0	43.4	64	2.591E-08	9.844E-08	1600
T 98.0	49.6	12	1.318E-08	5.008E-08	1600
98.0	55.8	74	2.992E-08	1.137E-07	1600
T 98.0	62.0	0	0.000E+00	0.000E+00	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM. X10E+6	FU/O 1/SQ.M	DISTANCE METERS
106.0	1.5	2125	8.555E-07	3.251E-06	1600
106.0	3.1	2840	1.143E-06	4.343E-06	1600
106.0	6.2	2809	1.131E-06	4.296E-06	1600
106.0	9.3	3411	1.173E-06	5.217E-06	1600
106.0	12.4	4008	1.613E-06	6.130E-06	1600
106.0	15.5	2707	1.170E-06	4.447E-06	1600
106.0	18.6	854	3.438E-07	1.306E-06	1600
Z 106.0	21.7	3549	1.422E-06	5.424E-06	1600
106.0	24.8	2277	7.166E-07	3.883E-06	1600
106.0	31.0	3239	1.304E-06	4.953E-06	1600
106.0	37.2	2414	9.715E-07	3.692E-06	1600
106.0	44.4	2545	1.020E-06	3.892E-06	1600
106.0	49.6	1690	6.803E-07	2.585E-06	1600
Z 106.0	55.8	1611	6.486E-07	2.465E-06	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM. X10E+6	FU/O 1/SQ.M	DISTANCE METERS
114.0	1.5	4299	1.730E-06	6.575E-06	1600
114.0	3.1	4361	1.755E-06	6.679E-06	1600
114.0	6.2	1420	1.770E-06	6.759E-06	1600
114.0	9.3	5546	2.232E-06	8.482E-06	1600
114.0	12.4	3938	1.585E-06	6.023E-06	1600
114.0	15.5	4534	1.825E-06	6.934E-06	1600
114.0	18.6	5604	2.255E-06	8.570E-06	1600
7 114.0	21.7	4116	1.656E-06	6.295E-06	1600
114.0	24.8	3942	1.603E-06	6.090E-06	1600
114.0	31.0	4163	1.675E-06	6.366E-06	1600
114.0	37.2	4937	1.788E-06	6.786E-06	1600
114.0	43.4	2971	1.196E-06	4.543E-06	1600
7 114.0	49.6	1965	7.911E-07	3.066E-06	1600
114.0	55.8	2231	8.980E-07	3.412E-06	1600
7 114.0	62.0	3284	1.322E-06	5.023E-06	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM. X10E+6	FU/O 1/SQ.M	DISTANCE METERS
122.0	1.5	70	2.822E-08	1.072E-07	1600
122.0	3.1	54	2.210E-08	8.400E-08	1600
122.0	6.2	128	5.174E-08	1.966E-07	1600
122.0	9.3	129	5.221E-08	1.984E-07	1600
122.0	12.4	141	5.691E-08	2.163E-07	1600
122.0	15.5	137	5.550E-08	2.109E-07	1600
122.0	18.6	140	5.644E-08	2.145E-07	1600
122.0	21.7	126	5.079E-08	1.930E-07	1600
8 122.0	24.8	143	5.786E-08	2.195E-07	1600
122.0	31.0	172	6.952E-08	2.642E-07	1600
122.0	37.2	135	5.440E-08	2.067E-07	1600
122.0	43.4	120	4.836E-08	1.834E-07	1600
1 122.0	49.6	53	2.173E-08	8.257E-08	1600
1 122.0	55.8	71	2.885E-08	1.096E-07	1600
122.0	62.0	110	4.452E-08	1.692E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM. X10E+6	FU/O 1/SQ.M	DISTANCE METERS
130.0	1.5	44	1.787E-08	6.791E-08	1600
130.0	3.1	31	1.270E-08	4.825E-08	1600
130.0	6.2	17	7.055E-09	2.681E-08	1600
130.0	9.3	0	0.000E+00	0.000E+00	1600
130.0	12.4	73	2.963E-08	1.126E-07	1600
130.0	15.5	10	4.233E-09	1.608E-08	1600
130.0	18.6	42	1.693E-08	6.434E-08	1600
130.0	21.7	31	1.270E-08	4.825E-08	1600
130.0	24.8	38	1.544E-08	5.907E-08	1600
130.0	31.0	13	5.613E-09	2.133E-08	1600
130.0	37.2	51	2.073E-08	7.976E-08	1600
130.0	43.4	24	2.931E-09	3.774E-08	1600
130.0	49.6	60	2.822E-08	9.204E-08	1600
130.0	55.8	20	8.193E-09	3.113E-08	1600
130.0	62.0	10	9.270E-09	1.629E-08	1600

TEST F152 MAY 12, 1961 0545 TO 0615 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM. X10E+6	FU/O 1/SQ.M	DISTANCE METERS
101.0	19	7.832E-09	2.976E-08	3200	
102.0	56	2.275E-08	8.645E-08	3200	
103.0	96	3.879E-08	1.474E-07	3200	
104.0	196	7.906E-08	3.004E-07	3200	
105.0	366	1.477E-07	5.612E-07	3200	
106.0	279	1.126E-07	4.280E-07	3200	
107.0	48	1.939E-08	7.369E-08	3200	
108.0	94	3.804E-08	1.445E-07	3200	
109.0	75	3.058E-08	1.162E-07	3200	
110.0	2074	8.350E-07	3.173E-06	3200	
111.0	2404	9.678E-07	3.678E-06	3200	
112.0	2623	1.056E-06	4.012E-06	3200	
113.0	2868	1.154E-06	4.386E-06	3200	
114.0	1998	8.044E-07	3.057E-06	3200	
115.0	2049	8.246E-07	3.133E-06	3200	
116.0	1490	5.997E-07	2.279E-06	3200	
117.0	841	3.386E-07	1.287E-06	3200	
118.0	396	1.596E-07	6.065E-07	3200	
119.0	253	1.022E-07	3.883E-07	3200	
120.0	110	4.438E-08	1.686E-07	3200	
121.0	49	1.977E-08	7.511E-08	3200	
122.0	50	2.051E-08	7.794E-08	3200	
123.0	31	1.268E-08	4.818E-08	3200	
124.0	11	4.475E-09	1.701E-08	3200	
125.0	0	3.729E-10	1.417E-09	3200	
126.0	4	1.865E-09	7.086E-09	3200	
127.0	2	1.119E-09	4.251E-09	3200	
128.0	8	3.356E-09	1.275E-08	3200	
129.0	4	1.865E-09	7.086E-09	3200	
130.0	25	1.044E-08	3.968E-08	3200	
131.0	3	1.492E-09	5.669E-09	3200	
132.0	19	7.832E-09	2.976E-08	3200	

CROSSWIND INTEGRATED* 4.216E-04 SEC/SQ.M 1.602E-03 1/M

TOUCH DATA FOLLOWING....

TEST F152 MAY 12, 1961 0545 TO 0615 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC U= 3.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM. X10E+6	FU/O 1/SQ.M	DISTANCE METERS
106.0	1.5	436	1.755E-07	6.669E-07	3200
106.0	3.1	398	1.603E-07	6.091E-07	3200
106.0	6.2	617	2.386E-07	9.448E-07	3200
106.0	9.3	150	6.059E-08	2.303E-07	3200
106.0	12.4	208	8.387E-08	3.187E-07	3200
106.0	15.5	138	5.582E-08	2.121E-07	3200
106.0	18.6	238	9.581E-08	3.641E-07	3200
106.0	21.7	692	2.785E-07	1.058E-06	3200
106.0	24.8	356	1.436E-07	5.459E-07	3200
106.0	31.0	484	1.948E-07	7.403E-07	3200
106.0	37.2	488	1.965E-07	7.468E-07	3200
106.0	43.4	459	1.849E-07	7.027E-07	3200
106.0	49.6	280	1.129E-07	4.291E-07	3200
106.0	55.8	393	1.585E-07	6.022E-07	3200
8 106.0	62.0	12	5.007E-09	1.903E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. ² X10E+6	E/D SEC/CM. ²	EU/D 1/SEC. ²	DISTANCE METERS
114.0	1.5	1347	5.428E-07	2.061E-06	3200
114.0	3.1	1718	6.916E-07	2.628E-06	3200
114.0	6.2	1461	5.883E-07	2.236E-06	3200
114.0	9.3	1329	5.352E-07	2.034E-06	3200
114.0	12.4	1747	7.032E-07	2.672E-06	3200
114.0	15.5	2102	8.459E-07	3.214E-06	3200
114.0	18.6	1741	7.008E-07	2.663E-06	3200
114.0	21.7	2481	9.987E-07	3.795E-06	3200
114.0	24.8	1813	7.298E-07	2.773E-06	3200
114.0	31.0	1768	7.117E-07	2.705E-06	3200
114.0	37.2	1449	5.830E-07	2.217E-06	3200
114.0	43.4	1738	6.996E-07	2.658E-06	3200
114.0	49.6	1518	6.109E-07	2.321E-06	3200
114.0	55.8	1093	4.401E-07	1.673E-06	3200
114.0	62.0	1551	6.242E-07	2.372E-06	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. ² X10E+6	E/D SEC/CM. ²	EU/D 1/SEC. ²	DISTANCE METERS
122.0	1.5	9	1.888E-09	1.475E-08	3200
122.0	3.1	17	6.865E-09	2.609E-08	3200
122.0	6.2	31	1.254E-08	4.764E-08	3200
122.0	9.3	74	2.985E-08	1.134E-07	3200
122.0	12.4	30	1.224E-08	4.650E-08	3200
122.0	15.5	14	5.671E-09	2.155E-08	3200
122.0	18.6	20	8.050E-09	3.062E-08	3200
122.0	21.7	43	1.761E-08	6.692E-08	3200
122.0	24.8	51	2.092E-08	7.951E-08	3200
122.0	31.0	53	2.149E-08	8.166E-08	3200
122.0	37.2	40	1.612E-08	6.125E-08	3200
122.0	43.4	13	5.373E-09	2.042E-08	3200
122.0	49.6	52	2.128E-08	8.087E-08	3200
122.0	55.8	27	1.127E-08	4.281E-08	3200
122.0	62.0	37	1.502E-08	5.708E-08	3200

3D-SERIES EXPERIMENT: 53 (FT-53)
GROUND LEVEL AND TOWER SAMPLING 200-12800 M ARCS

TEST #153 JUNE 27, 1961 0550 TO 0611 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
76.0	7	1.670E-08	5.342E-08		200
78.0	19	4.452E-08	1.425E-07		200
80.0	9	2.226E-08	7.123E-08		200
82.0	14	3.339E-08	1.068E-07		200
84.0	9	2.226E-08	7.123E-08		200
86.0	71	1.614E-07	5.164E-07		200
88.0	81	1.836E-07	5.877E-07		200
90.0	44	1.447E-07	4.630E-07		200
92.0	158	3.562E-07	1.140E-06		200
94.0	682	1.530E-06	4.897E-06		200
96.0	2653	5.949E-06	1.904E-05		200
98.0	6502	1.458E-05	4.666E-05		200
100.0	22179	4.973E-05	1.591E-04		200
102.0	38200	8.565E-05	2.741E-04		200
104.0	41340	9.269E-05	2.966E-04		200
106.0	95945	2.151E-04	6.884E-04		200
108.0	117538	2.635E-04	8.433E-04		200
110.0	118720	2.642E-04	8.518E-04		200
112.0	77640	1.741E-04	5.571E-04		200
114.0	57292	1.245E-04	4.111E-04		200
116.0	47617	1.048E-04	3.417E-04		200
118.0	23936	5.367E-05	1.717E-04		200
120.0	9007	2.020E-05	6.463E-05		200
122.0	2839	6.366E-06	2.037E-05		200
124.0	429	4.628E-07	3.081E-06		200
126.0	166	3.729E-07	1.193E-06		200
128.0	124	2.783E-07	8.904E-07		200
130.0	0	0.000E+00	0.000E+00		200
132.0	64	1.447E-07	4.630E-07		200
134.0	114	2.560E-07	8.192E-07		200
136.0	14	3.339E-08	1.068E-07		200
138.0	146	3.243E-07	1.051E-06		200

CROSSWIND INTEGRATED= 1.036E-02 3.316E-02
SEC/SQ.M 1/M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.7	110188	2.471E-04	7.906E-04	200
106.0	1.4	70722	1.586E-04	5.074E-04	200
106.0	2.7	64603	1.449E-04	4.635E-04	200
106.0	4.1	73455	1.647E-04	5.270E-04	200
106.0	5.4	69998	1.569E-04	5.022E-04	200
106.0	6.8	69066	1.549E-04	4.955E-04	200
106.0	8.1	67223	1.507E-04	4.823E-04	200
106.0	9.4	59608	1.337E-04	4.277E-04	200
106.0	10.8	51901	1.164E-04	3.724E-04	200
106.0	13.5	35071	7.864E-05	2.516E-04	200
106.0	16.2	21992	4.931E-05	1.574E-04	200
106.0	18.9	28108	6.302E-05	2.017E-04	200
106.0	21.6	11344	2.544E-05	8.144E-05	200
106.0	24.3	15225	3.414E-05	1.092E-04	200
106.0	27.0	13189	2.957E-05	9.464E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.7	92314	2.070E-04	6.623E-04	200
114.0	1.4	46994	1.054E-04	3.372E-04	200
114.0	2.7	53967	1.210E-04	3.872E-04	200
114.0	4.1	1697	3.805E-06	1.218E-05	200
114.0	5.4	1917	4.299E-06	1.376E-05	200
114.0	6.8	1575	3.532E-06	1.130E-05	200
114.0	8.1	1913	4.291E-06	1.373E-05	200
114.0	9.4	2409	5.403E-06	1.729E-05	200
114.0	10.8	2449	5.491E-06	1.757E-05	200
114.0	13.5	2506	5.619E-06	1.798E-05	200
114.0	16.2	1716	3.849E-06	1.232E-05	200
114.0	18.9	2044	4.584E-06	1.467E-05	200
114.0	21.6	1867	4.187E-06	1.340E-05	200
114.0	24.3	1105	2.476E-06	7.929E-06	200
114.0	27.0	888	1.902E-06	6.085E-06	200

TOWER DATA FOLLOW....

TEST #153 JUNE 27, 1961 0550 TO 0611 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.7	6822	1.530E-05	4.895E-05	200
98.0	1.4	4484	1.005E-05	3.218E-05	200
98.0	2.7	4670	1.047E-05	3.351E-05	200
98.0	4.1	5322	1.193E-05	3.819E-05	200
98.0	5.4	5939	1.332E-05	4.262E-05	200
98.0	6.8	5050	1.132E-05	3.623E-05	200
98.0	8.1	6727	1.508E-05	4.827E-05	200
98.0	9.4	6843	1.535E-05	4.910E-05	200
98.0	10.8	8260	1.852E-05	5.926E-05	200
98.0	13.5	7186	1.602E-05	5.128E-05	200
98.0	16.2	5948	1.334E-05	4.268E-05	200
98.0	18.9	5802	1.301E-05	4.163E-05	200
98.0	21.6	3362	7.538E-06	2.412E-05	200
98.0	24.3	2181	4.892E-06	1.565E-05	200
98.0	27.0	1547	3.470E-06	1.110E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
122.0	0.7	3221	7.224E-06	2.312E-05	200
122.0	1.4	1960	4.395E-06	1.406E-05	200
122.0	2.7	2234	5.009E-06	1.603E-05	200
122.0	4.1	1740	3.902E-06	1.248E-05	200
122.0	5.4	2388	5.355E-06	1.713E-05	200
122.0	6.8	2248	5.041E-06	1.613E-05	200
122.0	8.1	2302	5.162E-06	1.652E-05	200
122.0	9.4	2629	5.896E-06	1.887E-05	200
122.0	10.8	2545	5.708E-06	1.826E-05	200
122.0	13.5	2368	5.310E-06	1.699E-05	200
122.0	16.2	1800	4.038E-06	1.292E-05	200
122.0	18.9	1784	4.002E-06	1.281E-05	200
122.0	21.6	1435	3.219E-06	1.030E-05	200
122.0	24.3	716	1.607E-06	5.143E-06	200
122.0	27.0	616	1.831E-06	5.860E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	E/O SEC/CU,M	EU/O 1/SQ,M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	E/O SEC/CU,M	EU/O 1/SQ,M	DISTANCE METERS
130.0	0.7	144	3.241E-07	1.037E-06	200	106.0	1.0	7683	1.723E-05	5.513E-05	800
130.0	2.7	89	2.007E-07	6.422E-07	200	106.0	2.1	1205	2.702E-06	8.648E-06	800
130.0	4.1	62	1.405E-07	4.496E-07	200	106.0	4.2	9939	2.229E-05	7.132E-05	800
130.0	5.4	41	9.232E-08	2.954E-07	200	106.0	6.3	7725	1.732E-05	5.543E-05	800
130.0	6.8	32	7.225E-08	2.312E-07	200	106.0	8.4	9787	2.195E-05	7.022E-05	800
130.0	8.1	26	6.021E-08	1.927E-07	200	106.0	10.5	9579	2.148E-05	6.873E-05	800
130.0	9.4	46	1.044E-07	3.340E-07	200	106.0	12.6	9093	2.039E-05	6.524E-05	800
130.0	10.8	5	1.204E-08	3.853E-08	200	106.0	14.7	9853	2.209E-05	7.070E-05	800
130.0	13.5	21	4.817E-08	1.541E-07	200	106.0	16.8	9178	2.058E-05	6.585E-05	800
130.0	16.2	25	5.619E-08	1.798E-07	200	106.0	21.0	8764	1.965E-05	6.288E-05	800
130.0	18.9	23	5.218E-08	1.670E-07	200	106.0	25.2	6831	1.532E-05	4.901E-05	800
130.0	21.6	1	4.014E-09	1.284E-08	200	106.0	29.4	4289	9.618E-06	3.078E-05	800
130.0	24.3	4	9.604E-09	3.073E-08	200	106.0	33.6	5355	1.201E-05	3.843E-05	800
130.0	27.0	8	1.921E-08	6.147E-08	200	106.0	37.8	4175	9.361E-06	2.996E-05	800
						106.0	42.0	3440	7.714E-06	2.468E-05	800

TEST F153 JUNE 27, 1961 0550 TO 0611 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU,M X10E+6	E/O SEC/CU,M	EU/O 1/SQ,M	DISTANCE METERS
102.0	1776	3.984E-06	1.275E-05	800
104.0	8047	1.804E-05	5.774E-05	800
106.0	1070	2.401E-06	7.683E-06	800
108.0	11226	2.517E-05	8.055E-05	800
110.0	8866	1.540E-05	4.927E-05	800
112.0	4143	9.291E-06	2.973E-05	800
114.0	278	6.245E-07	1.998E-06	800
116.0	761	1.706E-06	5.461E-06	800
118.0	100	2.261E-07	7.235E-07	800
120.0	38	8.613E-08	2.756E-07	800
122.0	7	1.615E-08	5.168E-08	800

CROSSWIND INTEGRATED= 2.149E-03 6.876E-03
SEC/SQ,M 1/M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	E/O SEC/CU,M	EU/O 1/SQ,M	DISTANCE METERS
114.0	1.0	1229	2.757E-06	8.822E-06	800
114.0	2.1	148	3.339E-07	1.069E-06	800
114.0	4.2	1075	2.411E-06	7.716E-06	800
114.0	6.3	1219	2.733E-06	8.747E-06	800
114.0	8.4	1729	3.879E-06	1.241E-05	800
114.0	10.5	1712	3.800E-06	1.229E-05	800
114.0	12.6	1762	3.953E-06	1.265E-05	800
114.0	14.7	1800	4.038E-06	1.292E-05	800
114.0	16.8	1892	4.244E-06	1.358E-05	800
114.0	21.0	2349	5.269E-06	1.688E-05	800
114.0	25.2	1691	3.793E-06	1.214E-05	800
114.0	29.4	1582	3.549E-06	1.136E-05	800
114.0	33.6	1407	3.156E-06	1.010E-05	800
114.0	37.8	2024	4.540E-06	1.453E-05	800
114.0	42.0	2012	4.512E-06	1.444E-05	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	E/O SEC/CU,M	EU/O 1/SQ,M	DISTANCE METERS
122.0	1.0	0	0.000E+00	0.000E+00	800
122.0	2.1	5	1.165E-08	3.727E-08	800
122.0	4.2	8	1.941E-08	6.212E-08	800
122.0	6.3	0	0.000E+00	0.000E+00	800
122.0	8.4	8	1.941E-08	6.212E-08	800
122.0	10.5	5	1.165E-08	3.727E-08	800
122.0	12.6	15	3.494E-08	1.118E-07	800
122.0	14.7	10	2.330E-08	7.455E-08	800
122.0	16.8	5	1.165E-08	3.727E-08	800
122.0	21.0	6	1.553E-08	4.970E-08	800
122.0	25.2	41	9.290E-08	2.973E-07	800
122.0	29.4	22	4.955E-08	1.588E-07	800
122.0	33.6	30	7.742E-08	2.477E-07	800
122.0	37.8	26	5.884E-08	1.883E-07	800
122.0	42.0	35	8.051E-08	2.576E-07	800

TONER DATA FOLLOW....

TEST F153 JUNE 27, 1961 0550 TO 0611 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ARC U= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	E/O SEC/CU,M	EU/O 1/SQ,M	DISTANCE METERS
98.0	1.0	17	3.883E-08	1.242E-07	800
98.0	2.1	5	1.165E-08	3.727E-08	800
98.0	4.2	38	8.542E-08	2.733E-07	800
98.0	6.3	31	6.989E-08	2.236E-07	800
98.0	8.4	17	3.883E-08	1.242E-07	800
98.0	10.5	25	5.824E-08	1.864E-07	800
98.0	12.6	12	2.718E-08	8.697E-08	800
98.0	14.7	8	1.941E-08	6.212E-08	800
98.0	16.8	20	4.659E-08	1.491E-07	800
98.0	21.0	86	1.941E-07	6.212E-07	800
98.0	25.2	23	5.264E-08	1.685E-07	800
98.0	29.4	9	2.168E-08	6.937E-08	800
98.0	33.6	0	0.000E+00	0.000E+00	800
98.0	37.8	15	3.406E-08	1.090E-07	800
98.0	42.0	0	0.000E+00	0.000E+00	800

TEST FT53 JUNE 27, 1961 0550 TO 0611 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
100.0	21	4.977E-08	1.576E-07	1600
101.0	25	5.748E-08	1.839E-07	1600
102.0	212	4.762E-07	1.524E-06	1600
103.0	274	6.158E-07	1.971E-06	1600
104.0	1140	2.558E-06	8.185E-06	1600
105.0	2363	5.300E-06	1.696E-05	1600
106.0	2925	6.561E-06	2.099E-05	1600
107.0	2138	4.795E-06	1.534E-05	1600
108.0	1957	4.387E-06	1.404E-05	1600
109.0	1777	3.986E-06	1.276E-05	1600
110.0	1160	2.603E-06	8.329E-06	1600
111.0	871	1.954E-06	6.253E-06	1600
112.0	915	2.053E-06	6.569E-06	1600
113.0	640	1.437E-06	4.598E-06	1600
114.0	459	1.030E-06	3.298E-06	1600
115.0	263	5.912E-07	1.892E-06	1600
116.0	241	5.419E-07	1.734E-06	1600
117.0	98	2.217E-07	7.094E-07	1600
118.0	86	1.930E-07	6.175E-07	1600
119.0	38	8.621E-08	2.759E-07	1600

CROSSWIND INTEGRATED= 1.103E-03 SEC/SQ.M
3.530E-03 1/M

TOWER DATA FOLLOW....

TEST FT53 JUNE 27, 1961 0550 TO 0611 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC U= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
106.0	1.5	1818	4.076E-06	1.304E-05	1600
106.0	3.1	2357	5.296E-06	1.691E-05	1600
106.0	6.2	1750	3.924E-06	1.256E-05	1600
106.0	9.3	2321	5.205E-06	1.666E-05	1600
106.0	12.4	2924	6.557E-06	2.098E-05	1600
106.0	15.5	3215	7.210E-06	2.307E-05	1600
106.0	18.6	3118	6.993E-06	2.238E-05	1600
106.0	21.7	3054	6.850E-06	2.192E-05	1600
106.0	24.8	2205	4.945E-06	1.583E-05	1600
106.0	31.0	2413	5.412E-06	1.732E-05	1600
106.0	37.2	2113	4.738E-06	1.518E-05	1600
106.0	43.4	1861	4.173E-06	1.335E-05	1600
106.0	49.6	1217	2.731E-06	8.738E-06	1600
106.0	55.8	1165	2.613E-06	8.363E-06	1600
106.0	62.0	928	2.083E-06	6.665E-06	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
114.0	1.5	307	6.903E-07	2.209E-06	1600
114.0	3.1	384	8.613E-07	2.756E-06	1600
114.0	6.2	492	1.104E-06	3.532E-06	1600
114.0	9.3	384	8.613E-07	2.756E-06	1600
114.0	12.4	607	1.362E-06	4.358E-06	1600
114.0	15.5	411	9.235E-07	2.955E-06	1600
114.0	18.6	420	9.421E-07	3.015E-06	1600
114.0	21.7	404	9.079E-07	2.905E-06	1600
114.0	24.8	399	8.952E-07	2.865E-06	1600
114.0	31.0	6A5	1.493E-06	4.777E-06	1600
114.0	37.2	404	9.080E-07	2.906E-06	1600
114.0	43.4	790	1.772E-06	5.672E-06	1600
114.0	49.6	390	8.748E-07	2.799E-06	1600
114.0	55.8	390	8.748E-07	2.799E-06	1600
114.0	62.0	728	1.632E-06	5.224E-06	1600

TEST FT53 JUNE 27, 1961 0550 TO 0611 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
101.0	2	6.234E-09	1.995E-08	3200
102.0	9	2.078E-08	6.609E-08	3200
103.0	78	1.746E-07	5.452E-07	3200
104.0	196	4.405E-07	1.410E-06	3200
105.0	414	9.288E-07	2.972E-06	3200
106.0	586	1.315E-06	4.209E-06	3200
107.0	1002	2.248E-06	7.195E-06	3200
108.0	620	1.392E-06	4.455E-06	3200
109.0	707	1.677E-06	5.366E-06	3200
110.0	541	1.213E-06	3.883E-06	3200
111.0	432	9.704E-07	3.105E-06	3200
112.0	377	8.457E-07	2.706E-06	3200
113.0	307	6.899E-07	2.208E-06	3200
114.0	164	3.678E-07	1.177E-06	3200
115.0	126	2.847E-07	9.110E-07	3200
116.0	28	6.441E-08	2.061E-07	3200
117.0	14	3.325E-08	1.064E-07	3200
118.0	6	1.455E-08	4.654E-08	3200
119.0	1	4.156E-09	1.330E-08	3200

CROSSWIND INTEGRATED= 7.090E-04 SEC/SQ.M
2.269E-03 1/M

TOWER DATA FOLLOW....

TEST FT53 JUNE 27, 1961 0550 TO 0611 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC U= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
106.0	1.5	437	9.803E-07	3.137E-06	3200
106.0	3.1	562	1.262E-06	4.030E-06	3200
106.0	6.2	676	1.518E-06	4.857E-06	3200
106.0	9.3	621	1.394E-06	4.459E-06	3200
106.0	12.4	558	1.253E-06	4.009E-06	3200
106.0	15.5	733	1.644E-06	5.260E-06	3200
106.0	18.6	798	1.790E-06	5.728E-06	3200
106.0	21.7	663	1.488E-06	4.762E-06	3200
106.0	24.8	610	1.368E-06	4.379E-06	3200
106.0	31.0	608	1.365E-06	4.368E-06	3200
106.0	37.2	570	1.280E-06	4.095E-06	3200
106.0	43.4	545	1.222E-06	3.912E-06	3200
106.0	49.6	265	5.947E-07	1.903E-06	3200
106.0	55.8	387	8.693E-07	2.782E-06	3200
106.0	62.0	1	2.679E-09	8.573E-09	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
114.0	1.5	7	1.668E-08	5.337E-08	3200
114.0	3.1	23	5.189E-08	1.660E-07	3200
114.0	6.2	32	7.227E-08	2.313E-07	3200
114.0	9.3	216	4.855E-07	1.554E-06	3200
114.0	12.4	248	5.578E-07	1.785E-06	3200
114.0	15.5	199	4.466E-07	1.429E-06	3200
114.0	18.6	277	6.226E-07	1.992E-06	3200
114.0	21.7	233	5.226E-07	1.672E-06	3200
114.0	24.8	289	6.497E-07	2.079E-06	3200
114.0	31.0	284	6.383E-07	2.042E-06	3200
114.0	37.2	186	4.184E-07	1.339E-06	3200
114.0	43.4	461	1.030E-06	3.308E-06	3200
114.0	49.6	270	6.068E-07	1.942E-06	3200
114.0	55.8	271	6.081E-07	1.944E-06	3200
114.0	62.0	236	5.304E-07	1.697E-06	3200

TEST F153 JUNE 27, 1961 0550 TO 0611 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 1200M ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/W SEC/CU.M	E/U/D 1/SQ.M	DISTANCE METERS
97.0	0	0.000E+00	0.000E+00	12800
100.0	3	8.710E-09	2.787E-08	12800
102.0	10	2.412E-08	7.719E-08	12800
105.0	9	2.144E-08	6.861E-08	12800
107.0	28	6.432E-08	2.058E-07	12800
110.0	5	1.206E-08	3.859E-08	12800
CROSSWIND INTEGRATED=		7.297E-05 SEC/SQ.M	2.335E-04 1/M	

30-SERIES EXPERIMENT: 54 (FT-54)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS

TEST FT54 JULY 12, 1961 0407 TO 0437 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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68.0	49	7.166E-08	1.362E-07	200
70.0	18	2.687E-08	5.106E-08	200
72.0	39	5.823E-08	1.106E-07	200
74.0	49	7.166E-08	1.362E-07	200
76.0	30	4.479E-08	8.510E-08	200
78.0	21	3.135E-08	5.957E-08	200
80.0	110	1.612E-07	3.064E-07	200
82.0	46	6.719E-08	1.277E-07	200
84.0	67	9.854E-08	1.872E-07	200
86.0	12	1.792E-08	3.404E-08	200
88.0	18	2.687E-08	5.106E-08	200
90.0	76	1.120E-07	2.128E-07	200
92.0	276	4.031E-07	7.659E-07	200
94.0	5755	8.389E-06	1.594E-05	200
96.0	41191	6.005E-05	1.141E-04	200
98.0	127845	1.864E-04	3.541E-04	200
100.0	196300	2.867E-04	5.437E-04	200
102.0	176033	2.566E-04	4.876E-04	200
104.0	136317	1.987E-04	3.776E-04	200
106.0	125412	1.628E-04	3.474E-04	200
108.0	197972	2.886E-04	5.483E-04	200
110.0	384950	5.612E-04	1.066E-03	200
112.0	663687	9.675E-04	1.838E-03	200
114.0	739424	1.078E-03	2.048E-03	200
116.0	851003	1.241E-03	2.357E-03	200
118.0	553693	8.071E-04	1.534E-03	200
120.0	226941	3.308E-04	6.286E-04	200
122.0	65041	9.447E-05	1.803E-04	200
124.0	12471	1.818E-05	3.454E-05	200
126.0	1576	2.298E-06	4.366E-06	200
128.0	196	2.867E-07	5.447E-07	200
130.0	58	8.510E-08	1.617E-07	200
132.0	46	6.719E-08	1.277E-07	200
134.0	52	7.614E-08	1.447E-07	200
136.0	15	2.240E-08	4.255E-08	200
138.0	0	0.000E+00	0.000E+00	200
140.0	18	2.687E-08	5.106E-08	200

CROSSWIND INTEGRATED= 4.587E-02 8.714E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW.....

TEST FT54 JULY 12, 1961 0407 TO 0437 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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98.0	0.7	132766	1.935E-04	3.677E-04	200
98.0	1.4	78554	1.145E-04	2.176E-04	200
98.0	2.7	70684	1.030E-04	1.958E-04	200
98.0	4.1	54633	7.960E-05	1.513E-04	200
98.0	5.4	43707	6.377E-05	1.212E-04	200
98.0	6.8	28609	4.171E-05	7.924E-05	200
98.0	8.1	10151	1.480E-05	2.812E-05	200
98.0	9.4	4469	6.515E-06	1.238E-05	200
98.0	10.8	1197	1.746E-06	3.317E-06	200
98.0	13.5	27	4.072E-08	7.736E-08	200
98.0	16.2	1	2.545E-09	4.835E-09	200
98.0	18.9	5	7.635E-09	1.451E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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106.0	0.7	136498	1.990E-04	3.781E-04	200
106.0	1.4	78898	1.144E-04	2.174E-04	200
106.0	2.7	81571	1.189E-04	2.259E-04	200
106.0	4.1	77988	1.137E-04	2.160E-04	200
106.0	5.4	67809	9.898E-05	1.881E-04	200
106.0	6.8	64404	9.388E-05	1.784E-04	200
106.0	8.1	55038	8.023E-05	1.524E-04	200
106.0	9.4	29693	4.329E-05	8.224E-05	200
106.0	10.8	70353	2.967E-05	5.637E-05	200
106.0	13.5	4923	7.174E-06	1.363E-05	200
106.0	16.2	911	1.328E-06	2.524E-06	200
106.0	18.9	96	1.400E-07	2.659E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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114.0	0.7	940266	1.371E-03	2.604E-03	200
114.0	1.4	477796	6.965E-04	1.323E-03	200
114.0	2.7	486003	7.085E-04	1.346E-03	200
114.0	4.1	436929	6.369E-04	1.210E-03	200
114.0	5.4	338286	4.931E-04	9.369E-04	200
114.0	6.8	240334	3.503E-04	6.457E-04	200
114.0	8.1	186289	2.716E-04	5.160E-04	200
114.0	9.4	118277	1.724E-04	3.276E-04	200
114.0	10.8	59118	8.618E-05	1.637E-04	200
114.0	13.5	18747	2.733E-05	5.193E-05	200
114.0	16.2	3695	5.387E-06	1.024E-05	200
114.0	18.9	818	1.194E-06	2.268E-06	200
114.0	21.6	113	1.654E-07	3.143E-07	200
114.0	24.3	20	2.999E-08	5.699E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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122.0	0.7	69973	1.020E-04	1.938E-04	200
122.0	1.4	40290	5.873E-05	1.116E-04	200
122.0	2.7	43548	6.348E-05	1.206E-04	200
122.0	4.1	49153	7.165E-05	1.361E-04	200
122.0	5.4	59441	8.665E-05	1.644E-04	200
122.0	6.8	62767	9.150E-05	1.738E-04	200
122.0	8.1	70033	1.021E-04	1.940E-04	200
122.0	9.4	61807	9.010E-05	1.712E-04	200
122.0	10.8	44363	6.467E-05	1.229E-04	200
122.0	13.5	23251	3.389E-05	6.440E-05	200
122.0	16.2	8440	1.231E-05	2.339E-05	200
122.0	18.9	1970	2.873E-06	5.459E-06	200
122.0	21.6	403	6.464E-07	1.228E-06	200
122.0	24.3	108	1.579E-07	2.999E-07	200
122.0	27.0	7	1.105E-08	2.100E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/C SEC/CU.M	FL/G 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/C SEC/CU.M	FL/G 1/SQ.M	DISTANCE METERS
130.0	0.7	40	5.877E-08	1.118E-07	200	106.0	1.0	1082	1.578E-06	2.998E-06	800
130.0	1.4	27	4.072E-08	7.736E-08	200	106.0	2.1	748	1.091E-06	2.072E-06	800
130.0	2.7	144	2.112E-07	4.013E-07	200	106.0	4.2	4139	6.034E-06	1.146E-05	800
130.0	4.1	92	1.349E-07	2.563E-07	200	106.0	6.3	5805	8.463E-06	1.608E-05	800
130.0	5.4	130	1.909E-07	3.626E-07	200	106.0	8.4	6239	9.096E-06	1.728E-05	800
130.0	6.8	169	2.469E-07	4.690E-07	200	106.0	10.5	5481	7.991E-06	1.518E-05	800
130.0	8.1	71	1.043E-07	1.922E-07	200	106.0	12.6	4556	6.642E-06	1.262E-05	800
130.0	9.4	185	2.698E-07	5.125E-07	200	106.0	14.7	2659	3.877E-06	7.367E-06	800
130.0	10.8	209	3.058E-07	5.802E-07	200	106.0	16.8	1097	1.600E-06	3.040E-06	800
130.0	13.5	78	1.145E-07	2.176E-07	200	106.0	21.0	271	3.963E-07	7.530E-07	800
130.0	16.2	26	3.817E-08	7.253E-08	200	106.0	25.2	11	1.680E-08	3.191E-08	800
130.0	18.9	6	1.018E-08	1.934E-08	200						
130.0	21.6	3	5.090E-09	9.670E-09	200						
130.0	24.3	1	1.579E-09	2.999E-09	200						
130.0	27.0	4	6.314E-09	1.200E-08	200						

TEST FT54 JULY 12, 1961 0407 TO 0437 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/C SEC/CU.M	FL/G 1/SQ.M	DISTANCE METERS
84.0	5	8.665E-09	1.646E-08	800	
86.0	2	4.333E-09	8.232E-09	800	
88.0	32	4.766E-08	9.055E-08	800	
90.0	26	3.899E-08	7.409E-08	800	
92.0	17	2.600E-08	4.939E-08	800	
94.0	20	3.033E-08	5.762E-08	800	
96.0	133	1.950E-07	3.704E-07	800	
98.0	5127	7.474E-06	1.420E-05	800	
100.0	14872	2.168E-05	4.119E-05	800	
102.0	12593	1.836E-05	3.488E-05	800	
104.0	9725	1.418E-05	2.694E-05	800	
106.0	8253	1.203E-05	2.286E-05	800	
108.0	8681	1.266E-05	2.405E-05	800	
110.0	15616	2.276E-05	4.325E-05	800	
112.0	40487	5.902E-05	1.121E-04	800	
114.0	64419	9.391E-05	1.784E-04	800	
116.0	93285	1.360E-04	2.584E-04	800	
118.0	59702	8.703E-05	1.654E-04	800	
120.0	17961	2.618E-05	4.975E-05	800	
122.0	1462	2.132E-06	4.050E-06	800	
124.0	38	5.632E-08	1.070E-07	800	
126.0	8	1.300E-08	2.470E-08	800	
128.0	2	4.333E-09	8.232E-09	800	

CROSS-IND INTEGRATED= 1.435E-02 2.726E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOWS...

TEST FT54 JULY 12, 1961 0407 TO 0437 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ARC U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/C SEC/CU.M	FL/G 1/SQ.M	DISTANCE METERS
98.0	1.0	857	1.251E-06	2.376E-06	800
98.0	2.1	668	9.708E-07	1.852E-06	800
98.0	4.2	2072	3.920E-06	5.739E-06	800
98.0	6.3	1302	1.898E-06	3.606E-06	800
98.0	8.4	673	9.822E-07	1.866E-06	800
98.0	10.5	184	2.683E-07	5.098E-07	800
98.0	12.6	59	8.616E-08	1.637E-07	800
98.0	14.7	10	1.477E-08	2.806E-08	800
98.0	16.8	3	4.923E-09	9.354E-09	800
98.0	21.0	5	7.385E-09	1.403E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/C SEC/CU.M	FL/G 1/SQ.M	DISTANCE METERS
114.0	1.0	9056	1.320E-05	2.508E-05	800
114.0	2.1	6079	8.862E-06	1.684E-05	800
114.0	4.2	30695	4.475E-05	8.502E-05	800
114.0	6.3	36780	5.362E-05	1.019E-04	800
114.0	8.4	28414	4.142E-05	7.870E-05	800
114.0	10.5	21176	3.087E-05	5.865E-05	800
114.0	12.6	13898	2.026E-05	3.849E-05	800
114.0	14.7	6369	9.285E-06	1.764E-05	800
114.0	16.8	5405	8.010E-06	1.522E-05	800
114.0	21.0	1622	2.366E-06	4.495E-06	800
114.0	25.2	149	2.180E-07	4.149E-07	800
114.0	29.4	27	3.970E-08	7.543E-08	800
114.0	33.6	7	1.069E-08	2.031E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/C SEC/CU.M	FL/G 1/SQ.M	DISTANCE METERS
122.0	1.0	148	2.168E-07	4.116E-07	800
122.0	2.1	109	1.600E-07	3.040E-07	800
122.0	4.2	1330	1.945E-06	3.695E-06	800
122.0	6.3	2033	2.964E-06	5.631E-06	800
122.0	8.4	3458	5.042E-06	9.579E-06	800
122.0	10.5	1165	1.699E-06	3.227E-06	800
122.0	12.6	4873	7.100E-06	1.350E-05	800
122.0	14.7	5582	8.138E-06	1.546E-05	800
122.0	16.8	5307	7.737E-06	1.470E-05	800
122.0	21.0	4904	7.149E-06	1.358E-05	800
122.0	25.2	1123	1.638E-06	3.113E-06	800
122.0	29.4	391	5.711E-07	1.085E-06	800
122.0	33.6	75	1.099E-07	2.089E-07	800
122.0	37.8	5	7.635E-09	1.451E-08	800
122.0	42.0	5	7.635E-09	1.451E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/C SEC/CU.M	FL/G 1/SQ.M	DISTANCE METERS
130.0	1.0	15	2.216E-08	4.209E-08	800
130.0	2.1	0	0.000E+00	0.000E+00	800
130.0	4.2	28	4.185E-08	7.951E-08	800
130.0	6.3	5	7.385E-09	1.403E-08	800
130.0	8.4	16	2.462E-08	4.677E-08	800
130.0	10.5	27	3.939E-08	7.484E-08	800
130.0	12.6	35	5.170E-08	9.822E-08	800
130.0	14.7	21	3.200E-08	6.080E-08	800
130.0	16.8	20	2.944E-08	5.613E-08	800
130.0	21.0	6	9.847E-09	1.871E-08	800
130.0	25.2	10	1.527E-08	2.901E-08	800
130.0	29.4	5	7.635E-09	1.451E-08	800

TEST F154 JULY 12, 1961 0407 TO 0437 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FL/O 1/SEC ²	DISTANCE METERS
97.0	22	3.284E-08	6.243E-08	1600	
98.0	30	1.314E-07	2.497E-07	1600	
99.0	372	5.437E-07	1.033E-06	1600	
100.0	1194	1.742E-06	3.309E-06	1600	
101.0	2047	2.984E-06	5.670E-06	1600	
102.0	2559	3.731E-06	7.089E-06	1600	
103.0	2967	4.325E-06	8.218E-06	1600	
104.0	2713	3.955E-06	7.515E-06	1600	
105.0	2270	3.310E-06	6.289E-06	1600	
106.0	2836	4.134E-06	7.855E-06	1600	
107.0	2153	3.140E-06	5.965E-06	1600	
108.0	2780	4.054E-06	7.702E-06	1600	
109.0	3256	4.747E-06	9.019E-06	1600	
110.0	3959	5.771E-06	1.097E-05	1600	
111.0	6041	8.806E-06	1.673E-05	1600	
112.0	6969	1.016E-05	1.930E-05	1600	
113.0	8010	1.168E-05	2.219E-05	1600	
114.0	9245	1.354E-05	2.572E-05	1600	
115.0	12862	1.875E-05	3.563E-05	1600	
116.0	18270	2.663E-05	5.060E-05	1600	
117.0	21477	3.131E-05	5.949E-05	1600	
118.0	19947	2.908E-05	5.525E-05	1600	
119.0	16207	2.363E-05	4.489E-05	1600	
120.0	9129	1.331E-05	2.529E-05	1600	
121.0	4225	6.160E-06	1.170E-05	1600	
122.0	1758	2.563E-06	4.870E-06	1600	
123.0	401	5.855E-07	1.112E-06	1600	
124.0	61	8.962E-08	1.703E-07	1600	

CROSSWIND INTEGRATED= 6.671E-03 1.267E-02
SEC/3Q.M 1/M

TOWER DATA FOLLOWS....

TEST F154 JULY 12, 1961 0407 TO 0437 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FL/O 1/SEC ²	DISTANCE METERS
98.0	1.5	86	1.264E-07	2.406E-07	1600
98.0	3.1	35	5.145E-08	9.775E-08	1600
98.0	6.2	35	5.145E-08	9.775E-08	1600
98.0	9.3	14	2.177E-08	4.136E-08	1600
98.0	12.4	0	0.000E+00	0.000E+00	1600
98.0	15.5	16	2.374E-08	4.512E-08	1600
98.0	18.6	0	0.000E+00	0.000E+00	1600
98.0	21.7	0	0.000E+00	0.000E+00	1600
98.0	24.8	0	1.318E-09	2.505E-09	1600
98.0	31.0	1	2.636E-09	5.009E-09	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FL/O 1/SEC ²	DISTANCE METERS
106.0	1.5	1592	2.321E-06	4.410E-06	1600
106.0	3.1	1939	2.828E-06	5.372E-06	1600
106.0	6.2	1873	2.731E-06	5.188E-06	1600
106.0	9.3	2399	3.498E-06	6.647E-06	1600
106.0	12.4	1950	2.843E-06	5.403E-06	1600
106.0	15.5	1593	2.323E-06	4.414E-06	1600
106.0	18.6	811	1.183E-06	2.248E-06	1600
106.0	21.7	446	6.510E-07	1.237E-06	1600
106.0	24.8	68	1.002E-07	1.903E-07	1600
106.0	31.0	2	3.955E-09	7.514E-09	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FL/O 1/SEC ²	DISTANCE METERS
114.0	1.5	6229	9.084E-06	1.725E-05	1600
114.0	3.1	6260	9.126E-06	1.734E-05	1600
114.0	6.2	7373	1.075E-05	2.042E-05	1600
114.0	9.3	7928	1.156E-05	2.196E-05	1600
114.0	12.4	6482	9.450E-06	1.796E-05	1600
114.0	15.5	4719	6.884E-06	1.307E-05	1600
114.0	18.6	3206	4.674E-06	8.880E-06	1600
114.0	21.7	2067	3.014E-06	5.726E-06	1600
114.0	24.8	561	8.184E-07	1.555E-06	1600
114.0	31.0	106	1.555E-07	2.955E-07	1600
114.0	37.2	0	1.318E-09	2.505E-09	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FL/O 1/SEC ²	DISTANCE METERS
122.0	1.5	847	1.235E-06	2.346E-06	1600
122.0	3.1	1073	1.565E-06	2.974E-06	1600
122.0	6.2	1179	1.720E-06	3.267E-06	1600
122.0	9.3	1349	1.967E-06	3.737E-06	1600
122.0	12.4	2649	3.920E-06	7.448E-06	1600
122.0	15.5	2914	4.248E-06	8.072E-06	1600
122.0	18.6	3744	5.517E-06	1.044E-05	1600
122.0	21.7	2371	3.457E-06	6.568E-06	1600
122.0	24.8	1512	2.213E-06	4.205E-06	1600
122.0	31.0	404	5.892E-07	1.120E-06	1600
122.0	37.2	71	1.041E-07	1.979E-07	1600
122.0	43.4	15	2.241E-08	4.258E-08	1600
122.0	49.6	0	1.042E-09	1.988E-09	1600

TEST F154 JULY 12, 1961 0407 TO 0437 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/C SEC/CM ²	EU/C 1/SG.M	DISTANCE METERS
99.0	18	2.689E-08	5.109E-08	3200
100.0	69	1.019E-07	1.936E-07	3200
101.0	250	3.651E-07	6.938E-07	3200
102.0	358	5.222E-07	9.922E-07	3200
103.0	573	8.364E-07	1.589E-06	3200
104.0	615	8.973E-07	1.705E-06	3200
105.0	817	1.192E-06	2.264E-06	3200
106.0	773	1.128E-06	2.143E-06	3200
107.0	1038	1.514E-06	2.877E-06	3200
108.0	973	1.420E-06	2.697E-06	3200
109.0	838	1.223E-06	2.323E-06	3200
110.0	864	1.260E-06	2.393E-06	3200
111.0	1011	1.475E-06	2.802E-06	3200
112.0	1007	1.469E-06	2.791E-06	3200
113.0	583	8.506E-07	1.616E-06	3200
114.0	828	1.207E-06	2.294E-06	3200
115.0	621	9.058E-07	1.721E-06	3200
116.0	545	7.954E-07	1.511E-06	3200
117.0	1090	1.589E-06	3.020E-06	3200
118.0	3759	5.480E-06	1.041E-05	3200
119.0	5573	8.125E-06	1.544E-05	3200
120.0	3510	5.123E-06	9.734E-06	3200
121.0	3325	4.847E-06	9.210E-06	3200
122.0	1501	2.189E-06	4.160E-06	3200
123.0	415	6.057E-07	1.151E-06	3200
124.0	96	1.401E-07	2.662E-07	3200
125.0	3	5.661E-09	1.076E-08	3200

CROSSWIND INTEGRATED= 2.530E-03 4.806E-03
SEC/SG.M 1/M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/C SEC/CM ²	EU/C 1/SG.M	DISTANCE METERS
114.0	1.5	542	7.904E-07	1.502E-06	3200
114.0	3.1	1146	1.671E-06	3.175E-06	3200
114.0	6.2	645	9.418E-07	1.789E-06	3200
114.0	9.3	1243	1.813E-06	3.444E-06	3200
114.0	12.4	774	1.129E-06	2.145E-06	3200
114.0	15.5	1167	1.702E-06	3.234E-06	3200
114.0	18.6	867	1.265E-06	2.403E-06	3200
114.0	21.7	794	1.158E-06	2.200E-06	3200
114.0	24.8	252	3.686E-07	7.004E-07	3200
114.0	31.0	251	3.668E-07	6.969E-07	3200
114.0	37.2	52	7.631E-08	1.450E-07	3200
114.0	43.4	2	3.677E-09	6.987E-09	3200
114.0	49.6	0	7.922E-10	1.505E-09	3200
114.0	55.8	0	0.000E+00	0.000E+00	3200
114.0	62.0	1	1.584E-09	3.010E-09	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/C SEC/CM ²	EU/C 1/SG.M	DISTANCE METERS
122.0	1.5	923	1.344E-06	2.556E-06	3200
122.0	3.1	1469	2.142E-06	4.070E-06	3200
122.0	6.2	1542	2.249E-06	4.273E-06	3200
122.0	9.3	2223	3.241E-06	6.159E-06	3200
122.0	12.4	2015	2.938E-06	5.583E-06	3200
122.0	15.5	2192	3.196E-06	6.073E-06	3200
122.0	18.6	2544	3.711E-06	7.049E-06	3200
122.0	21.7	2915	4.245E-06	8.074E-06	3200
122.0	24.8	1263	1.842E-06	3.500E-06	3200
122.0	31.0	859	1.253E-06	2.381E-06	3200
122.0	37.2	141	2.068E-07	3.930E-07	3200
122.0	43.4	25	3.677E-08	6.987E-08	3200
122.0	49.6	17	2.614E-08	4.967E-08	3200
122.0	55.8	3	4.753E-09	9.031E-09	3200
122.0	62.0	4	6.338E-09	1.204E-08	3200

TOWER DATA FOLLOW....

TEST F154 JULY 12, 1961 0407 TO 0437 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/C SEC/CM ²	EU/C 1/SG.M	DISTANCE METERS
98.0	1.5	0	1.189E-09	2.258E-09	3200
98.0	3.1	2	3.564E-09	6.775E-09	3200
98.0	6.2	4	7.132E-09	1.355E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/C SEC/CM ²	EU/C 1/SG.M	DISTANCE METERS
106.0	1.5	659	9.616E-07	1.827E-06	3200
106.0	3.1	620	9.045E-07	1.719E-06	3200
106.0	6.2	628	9.164E-07	1.741E-06	3200
106.0	9.3	715	1.044E-06	1.983E-06	3200
106.0	12.4	673	9.818E-07	1.865E-06	3200
106.0	15.5	713	1.069E-06	2.030E-06	3200
106.0	18.6	545	7.952E-07	1.511E-06	3200
106.0	21.7	397	5.800E-07	1.102E-06	3200
106.0	24.8	177	2.592E-07	4.925E-07	3200
106.0	31.0	19	2.850E-08	5.415E-08	3200

30-SERIES EXPERIMENT: 55 (FT-55)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS

TEST FT95 JULY 18, 1961 0456 TO 0526 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
70.0	2	2.110E-09	5.274E-09	200	
72.0	0	0.000E+00	0.000E+00	200	
74.0	25	1.899E-08	4.747E-08	200	
76.0	22	1.688E-08	4.219E-08	200	
78.0	19	1.477E-08	3.692E-08	200	
80.0	39	2.953E-08	7.383E-08	200	
82.0	62	4.641E-08	1.160E-07	200	
84.0	67	5.063E-08	1.266E-07	200	
86.0	350	2.616E-07	6.540E-07	200	
88.0	87	6.540E-08	1.635E-07	200	
90.0	322	2.405E-07	6.012E-07	200	
92.0	1255	9.366E-07	2.342E-06	200	
94.0	10781	8.046E-06	2.011E-05	200	
96.0	47207	3.523E-05	8.807E-05	200	
98.0	123365	9.206E-05	2.302E-04	200	
100.0	278348	2.077E-04	5.193E-04	200	
102.0	406301	3.032E-04	7.580E-04	200	
104.0	458605	3.422E-04	8.556E-04	200	
106.0	480767	3.588E-04	8.970E-04	200	
108.0	610818	4.558E-04	1.140E-03	200	
110.0	652728	4.871E-04	1.218E-03	200	
112.0	572392	4.272E-04	1.068E-03	200	
114.0	326709	2.438E-04	6.095E-04	200	
116.0	144323	1.077E-04	2.693E-04	200	
118.0	64524	4.815E-05	1.204E-04	200	
120.0	13619	1.016E-05	2.541E-05	200	
122.0	763	5.696E-07	1.424E-06	200	
124.0	39	2.953E-08	7.383E-08	200	
126.0	2	2.110E-09	5.274E-09	200	
128.0	14	1.055E-08	2.637E-08	200	
130.0	28	2.110E-08	5.274E-08	200	
132.0	8	6.329E-09	1.582E-08	200	
134.0	19	1.477E-08	3.692E-08	200	
136.0	0	0.000E+00	0.000E+00	200	
138.0	5	4.219E-09	1.055E-08	200	
140.0	8	6.329E-09	1.582E-08	200	

CROSSWIND INTEGRATED= 2.185E-02 5.462E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST FT55 JULY 18, 1961 0456 TO 0526 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 2.5 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
98.0	0.7	119246	8.899E-05	2.225E-04	200
98.0	1.4	87532	6.532E-05	1.633E-04	200
98.0	2.7	67132	5.010E-05	1.252E-04	200
98.0	4.1	69945	5.220E-05	1.305E-04	200
98.0	5.4	58478	4.364E-05	1.091E-04	200
98.0	6.8	51369	3.834E-05	9.584E-05	200
98.0	8.1	51284	3.827E-05	9.568E-05	200
98.0	9.4	35052	2.616E-05	6.540E-05	200
98.0	10.8	34429	2.569E-05	6.423E-05	200
98.0	13.5	20071	1.498E-05	3.745E-05	200
98.0	16.2	12445	9.288E-06	2.322E-05	200
98.0	18.9	5993	4.473E-06	1.118E-05	200
98.0	21.6	1272	9.499E-07	2.375E-06	200
98.0	24.3	264	1.976E-07	4.941E-07	200
98.0	27.0	55	4.150E-08	1.038E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
106.0	0.7	514143	3.837E-04	9.592E-04	200
106.0	1.4	344612	2.572E-04	6.429E-04	200
106.0	2.7	137990	1.038E-04	2.574E-04	200
106.0	4.1	251804	1.879E-04	4.698E-04	200
106.0	5.4	313745	2.301E-04	5.853E-04	200
106.0	6.8	201838	1.506E-04	3.766E-04	200
106.0	8.1	245463	1.832E-04	4.580E-04	200
106.0	9.4	292983	2.186E-04	5.468E-04	200
106.0	10.8	210742	1.573E-04	3.932E-04	200
106.0	13.5	130885	9.768E-05	2.442E-04	200
106.0	16.2	83770	6.252E-05	1.563E-04	200
106.0	18.9	50958	3.803E-05	9.507E-05	200
106.0	21.6	19561	1.460E-05	3.650E-05	200
106.0	24.3	14087	1.048E-05	2.621E-05	200
106.0	27.0	8182	6.107E-06	1.527E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
114.0	0.7	287895	2.186E-04	5.371E-04	200
114.0	1.4	181650	1.206E-04	3.016E-04	200
114.0	2.7	166203	1.201E-04	3.102E-04	200
114.0	4.1	177605	1.326E-04	3.314E-04	200
114.0	5.4	180582	1.377E-04	3.440E-04	200
114.0	6.8	79905	5.963E-05	1.491E-04	200
114.0	8.1	183026	1.366E-04	3.415E-04	200
114.0	9.4	182493	1.362E-04	3.405E-04	200
114.0	10.8	152900	1.142E-04	2.854E-04	200
114.0	13.5	128008	9.556E-05	2.389E-04	200
114.0	16.2	53992	4.029E-05	1.007E-04	200
114.0	18.9	45281	6.364E-05	1.591E-04	200
114.0	21.6	34500	2.581E-05	6.453E-05	200
114.0	24.3	12131	9.053E-06	2.263E-05	200
114.0	27.0	5916	4.415E-06	1.104E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
122.0	0.7	1002	7.479E-07	1.870E-06	200
122.0	1.4	529	3.950E-07	9.886E-07	200
122.0	2.7	1047	7.815E-07	1.954E-06	200
122.0	4.1	1537	1.148E-06	2.869E-06	200
122.0	5.4	1371	1.023E-06	2.558E-06	200
122.0	6.8	1346	1.005E-06	2.512E-06	200
122.0	8.1	1449	1.097E-06	2.742E-06	200
122.0	9.4	1433	1.070E-06	2.675E-06	200
122.0	10.8	1578	1.178E-06	2.946E-06	200
122.0	13.5	1459	1.089E-06	2.722E-06	200
122.0	16.2	1195	8.924E-07	2.231E-06	200
122.0	18.9	313	2.338E-07	5.845E-07	200
122.0	21.6	236	1.763E-07	4.409E-07	200
122.0	24.3	95	7.110E-08	1.779E-07	200
122.0	27.0	94	7.016E-08	1.754E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
130.0	0.7	35	2.637E-08	6.592E-08	200	106.0	1.0	5006	3.736E-06	9.340E-06	800
130.0	1.4	5	4.008E-09	1.002E-08	200	106.0	2.1	4488	3.350E-06	8.374E-06	800
130.0	2.7	66	4.943E-08	1.236E-07	200	106.0	4.2	41327	3.084E-05	7.710E-05	800
130.0	4.1	25	1.870E-08	4.676E-08	200	106.0	6.3	25024	1.868E-05	4.669E-05	800
130.0	5.4	193	1.443E-07	3.607E-07	200	106.0	8.4	31421	2.345E-05	5.862E-05	800
130.0	6.8	134	1.015E-07	2.538E-07	200	106.0	10.5	32192	2.402E-05	6.006E-05	800
130.0	8.1	50	3.741E-08	9.352E-08	200	106.0	12.4	27386	2.044E-05	5.109E-05	800
130.0	9.4	59	4.409E-08	1.102E-07	200	106.0	14.7	27842	2.078E-05	5.194E-05	800
130.0	10.8	34	2.538E-08	6.346E-08	200	106.0	16.8	26593	1.985E-05	4.962E-05	800
130.0	13.5	44	3.340E-08	8.350E-08	200	106.0	21.0	22049	1.646E-05	4.114E-05	800
130.0	16.2	32	2.405E-08	6.012E-08	200	106.0	25.2	12117	9.043E-06	2.261E-05	800
130.0	18.9	10	8.016E-09	2.004E-08	200	106.0	29.4	6899	5.109E-06	1.287E-05	800
130.0	21.6	23	1.737E-08	4.342E-08	200	106.0	33.6	6421	4.793E-06	1.198E-05	800
130.0	24.3	7	5.929E-09	1.482E-08	200	106.0	37.8	4274	3.190E-06	7.974E-06	800
130.0	27.0	5	3.952E-09	9.881E-09	200	106.0	42.0	3022	2.256E-06	5.639E-06	800

TEST F155 JULY 18, 1961 0456 TO 0526 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
78.0	10	8.162E-09	2.041E-08	800	800
80.0	0	0.000E+00	0.000E+00	800	800
82.0	21	1.632E-08	4.081E-08	800	800
84.0	2	2.041E-09	5.102E-09	800	800
86.0	0	0.000E+00	0.000E+00	800	800
88.0	0	0.000E+00	0.000E+00	800	800
90.0	13	1.020E-08	2.551E-08	800	800
92.0	131	9.795E-08	2.449E-07	800	800
94.0	574	4.285E-07	1.071E-06	800	800
96.0	3995	2.981E-06	7.453E-06	800	800
98.0	12865	9.601E-06	2.400E-05	800	800
100.0	24522	1.830E-05	4.575E-05	800	800
102.0	32594	2.432E-05	6.081E-05	800	800
104.0	31306	2.336E-05	5.841E-05	800	800
106.0	42216	3.151E-05	7.876E-05	800	800
108.0	65908	4.919E-05	1.230E-04	800	800
110.0	57721	4.308E-05	1.077E-04	800	800
112.0	34817	2.598E-05	6.496E-05	800	800
114.0	8799	6.567E-06	1.642E-05	800	800
116.0	989	7.387E-07	1.847E-06	800	800
118.0	41	3.041E-08	7.652E-08	800	800
120.0	43	3.265E-08	8.162E-08	800	800
122.0	5	4.041E-09	1.020E-08	800	800
124.0	24	1.837E-08	4.591E-08	800	800

CROSSWIND INTEGRATED= 6.598E-03 1.650E-02
SEC/90.M 1/M

TOWER DATA FOLLOW....

TEST F155 JULY 18, 1961 0456 TO 0526 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC U= 2.5 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	1.0	1617	1.207E-06	3.018E-06	800	130.0	1.0	0	0.000E+00	0.000E+00	800
98.0	2.1	1726	1.288E-06	3.221E-06	800	130.0	2.1	1	1.292E-09	3.231E-09	800
98.0	4.2	6684	4.988E-06	1.247E-05	800	130.0	4.2	67	5.040E-08	1.260E-07	800
98.0	6.3	6431	4.800E-06	1.200E-05	800	130.0	6.3	12	9.046E-09	2.262E-08	800
98.0	8.4	4855	3.624E-06	9.059E-06	800	130.0	8.4	22	1.680E-08	4.200E-08	800
98.0	10.5	4471	3.337E-06	8.342E-06	800	130.0	10.5	10	7.754E-09	1.938E-08	800
98.0	12.6	2768	2.066E-06	5.166E-06	800	130.0	12.6	6	5.169E-09	1.292E-08	800
98.0	14.7	2885	2.139E-06	5.347E-06	800	130.0	14.7	8	6.462E-09	1.615E-08	800
98.0	16.8	1915	1.429E-06	3.573E-06	800	130.0	16.8	25	1.939E-08	4.846E-08	800
98.0	21.0	1196	8.930E-07	2.232E-06	800	130.0	21.0	24	1.809E-08	4.523E-08	800
98.0	25.2	297	2.218E-07	5.544E-07	800	130.0	25.2	6	4.779E-09	1.195E-08	800
98.0	29.4	142	1.061E-07	2.652E-07	800	130.0	29.4	8	6.691E-09	1.673E-08	800
98.0	33.6	42	3.154E-08	7.886E-08	800	130.0	33.6	1	9.558E-10	2.390E-09	800
98.0	37.8	08	3.632E-08	9.080E-08	800	130.0	37.8	10	7.647E-09	1.912E-08	800
98.0	42.0	6	4.779E-09	1.195E-08	800	130.0	42.0	16	1.243E-08	3.106E-08	800

TEST F155 JULY 18, 1961 0456 TO 0526 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
90.0	19	1.463E-08	3.657E-08	1600	
91.0	119	8.923E-08	2.231E-07	1600	
92.0	254	1.902E-07	4.754E-07	1600	
93.0	599	4.476E-07	1.119E-06	1600	
94.0	995	7.431E-07	1.858E-06	1600	
95.0	1793	1.338E-06	3.346E-06	1600	
96.0	2667	1.991E-06	4.977E-06	1600	
97.0	4155	3.101E-06	7.753E-06	1600	
98.0	1103	8.235E-07	2.059E-06	1600	
99.0	5921	4.419E-06	1.105E-05	1600	
100.0	6135	4.578E-06	1.145E-05	1600	
101.0	6623	4.943E-06	1.236E-05	1600	
102.0	7070	5.276E-06	1.319E-05	1600	
103.0	7317	5.461E-06	1.365E-05	1600	
104.0	10759	8.029E-06	2.007E-05	1600	
105.0	12337	9.207E-06	2.302E-05	1600	
106.0	18507	1.381E-05	3.453E-05	1600	
107.0	19844	1.441E-05	3.702E-05	1600	
108.0	20902	1.560E-05	3.900E-05	1600	
109.0	16692	1.246E-05	3.114E-05	1600	
110.0	11311	8.442E-06	2.110E-05	1600	
111.0	7742	5.778E-06	1.444E-05	1600	
112.0	2746	2.049E-06	5.123E-06	1600	
113.0	1062	7.928E-07	1.982E-06	1600	
114.0	221	1.653E-07	4.132E-07	1600	
115.0	49	3.657E-08	9.142E-08	1600	
116.0	0	0.000E+00	0.000E+00	1600	

CROSSWIND INTEGRATED* 3.479E-03 8.698E-03
SEC/SQ.M 1/M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
106.0	1.5	10184	7.600E-06	1.900E-05	1600
106.0	3.1	13811	1.031E-05	2.577E-05	1600
106.0	6.2	3023	2.256E-06	5.640E-06	1600
106.0	9.3	14287	1.066E-05	2.666E-05	1600
106.0	12.4	12770	9.530E-06	2.383E-05	1600
106.0	15.5	13515	1.009E-05	2.521E-05	1600
106.0	18.6	13165	9.825E-06	2.456E-05	1600
106.0	21.7	9094	6.777E-06	1.697E-05	1600
106.0	24.8	7375	5.504E-06	1.376E-05	1600
106.0	31.0	5050	3.769E-06	9.422E-06	1600
106.0	37.2	1438	1.074E-06	2.684E-06	1600
106.0	43.4	2703	2.01FE-06	5.040E-06	1600
106.0	49.6	901	6.726E-07	1.682E-06	1600
106.0	55.8	689	5.142E-07	1.286E-06	1600
106.0	62.0	402	3.003E-07	7.50FE-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
114.0	1.5	163	1.221E-07	3.053E-07	1600
114.0	3.1	270	2.014E-07	5.045E-07	1600
114.0	6.2	274	2.049E-07	5.123E-07	1600
114.0	9.3	214	1.604E-07	4.010E-07	1600
114.0	12.4	201	1.501E-07	3.751E-07	1600
114.0	15.5	710	5.299E-07	1.325E-06	1600
114.0	18.6	367	2.742E-07	6.856E-07	1600
114.0	21.7	371	2.773E-07	6.934E-07	1600
114.0	24.8	966	7.359E-07	1.840E-06	1600
114.0	31.0	957	7.142E-07	1.786E-06	1600
114.0	37.2	1705	1.303E-06	3.257E-06	1600
114.0	43.4	1862	1.390E-06	3.475E-06	1600
114.0	49.6	828	6.182E-07	1.546E-06	1600
114.0	55.8	568	4.241E-07	1.060E-06	1600
114.0	62.0	781	5.830E-07	1.45FE-06	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
122.0	3.1	52	3.933E-08	9.831E-08	1600
122.0	6.2	13	1.035E-08	2.587E-08	1600
122.0	9.3	13	1.035E-08	2.587E-08	1600
122.0	12.4	26	1.966E-08	4.916E-08	1600
122.0	15.5	29	2.173E-08	5.433E-08	1600
122.0	18.6	16	1.242E-08	3.105E-08	1600
122.0	21.7	22	1.656E-08	4.140E-08	1600
122.0	24.8	15	1.121E-08	2.802E-08	1600
122.0	31.0	24	1.842E-08	4.604E-08	1600
122.0	37.2	59	4.404E-08	1.101E-07	1600
122.0	43.4	25	1.922E-08	4.804E-08	1600
122.0	49.6	12	9.601E-09	2.400E-08	1600
122.0	55.8	8	6.401E-09	1.600E-08	1600
122.0	62.0	7	5.868E-09	1.467E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
130.0	3.1	9	7.244E-09	1.811E-08	1600
130.0	6.2	11	8.279E-09	2.070E-08	1600
130.0	9.3	0	0.000E+00	0.000E+00	1600
130.0	12.4	24	1.863E-08	4.657E-08	1600
130.0	15.5	5	4.140E-09	1.035E-08	1600
130.0	18.6	24	1.863E-08	4.657E-08	1600
130.0	21.7	20	1.552E-08	3.881E-08	1600
130.0	24.8	47	3.523E-08	8.808E-08	1600
130.0	31.0	10	8.007E-09	2.002E-08	1600
130.0	37.2	22	1.601E-08	4.004E-08	1600
130.0	43.4	16	1.201E-08	3.003E-08	1600
130.0	49.6	5	3.734E-09	9.335E-09	1600
130.0	55.8	0	5.334E-10	1.334E-09	1600
130.0	62.0	4	3.200E-09	8.001E-09	1600

TOWER DATA FOLLOW....

TEST F155 JULY 18, 1961 0456 TO 0526 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC U= 2.5 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
98.0	3.1	4029	3.007E-06	7.518E-06	1600
98.0	6.2	3661	2.732E-06	6.830E-06	1600
98.0	9.3	3332	2.487E-06	6.217E-06	1600
98.0	12.4	3042	2.271E-06	5.676E-06	1600
98.0	15.5	2401	1.792E-06	4.481E-06	1600
98.0	18.6	1768	1.314E-06	3.299E-06	1600
98.0	21.7	1582	1.181E-06	2.952E-06	1600
98.0	24.8	320	2.394E-07	5.985E-07	1600
98.0	31.0	380	2.538E-07	6.346E-07	1600
98.0	37.2	131	9.849E-08	2.462E-07	1600
98.0	43.4	42	3.203E-08	8.007E-08	1600
98.0	49.6	12	9.601E-09	2.400E-08	1600
98.0	55.8	0	5.334E-10	1.334E-09	1600
98.0	62.0	0	0.000E+00	0.000E+00	1600

TEST FT55 JULY 18, 1961 0456 TO 0526 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/80 CM	DISTANCE METERS
81.0	5	4.307E-09	1.087E-08	3200	
82.0	18	1.377E-08	3.442E-08	3200	
83.0	10	7.970E-09	1.992E-08	3200	
84.0	37	2.826E-08	7.064E-08	3200	
85.0	50	3.768E-08	9.419E-08	3200	
86.0	55	4.130E-08	1.032E-07	3200	
87.0	133	9.926E-08	2.482E-07	3200	
88.0	87	6.521E-08	1.630E-07	3200	
89.0	126	9.419E-08	2.355E-07	3200	
90.0	198	1.478E-07	3.695E-07	3200	
91.0	437	3.268E-07	8.169E-07	3200	
92.0	1283	9.578E-07	2.395E-06	3200	
93.0	1713	1.279E-06	3.197E-06	3200	
94.0	2257	1.685E-06	4.211E-06	3200	
95.0	1818	1.357E-06	3.393E-06	3200	
96.0	2156	1.609E-06	4.023E-06	3200	
97.0	2648	1.977E-06	4.941E-06	3200	
98.0	2091	1.561E-06	3.902E-06	3200	
99.0	27	2.029E-08	5.072E-08	3200	
100.0	3189	2.380E-06	5.950E-06	3200	
101.0	2969	2.216E-06	5.541E-06	3200	
102.0	2887	2.155E-06	5.387E-06	3200	
103.0	3110	2.321E-06	5.804E-06	3200	
104.0	3346	2.497E-06	6.244E-06	3200	
105.0	4002	2.987E-06	7.468E-06	3200	
106.0	4957	3.699E-06	9.249E-06	3200	
107.0	4658	3.476E-06	8.691E-06	3200	
108.0	393	2.934E-07	7.336E-07	3200	
109.0	2230	1.664E-06	4.161E-06	3200	
110.0	931	6.948E-07	1.737E-06	3200	
111.0	600	4.485E-07	1.121E-06	3200	
112.0	148	1.109E-07	2.771E-07	3200	
113.0	8	6.521E-09	1.630E-08	3200	
114.0	0	7.245E-10	1.811E-09	3200	
115.0	14	1.087E-08	2.717E-08	3200	
116.0	0	0.000E+00	0.000E+00	3200	
117.0	3	2.808E-09	7.245E-09	3200	

CROSSWIND INTEGRATED= 2.026E-03 5.065E-03
SEC/SQ.M 1/M

TONER DATA FOLLOW....

TEST FT55 JULY 18, 1961 0456 TO 0526 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC U= 2.5 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/80 CM	DISTANCE METERS
98.0	1.5	2492	1.830E-06	4.575E-06	3200
98.0	3.1	1786	1.333E-06	3.334E-06	3200
98.0	6.2	2863	2.137E-06	5.343E-06	3200
98.0	9.3	2012	1.502E-06	3.755E-06	3200
98.0	12.4	2115	1.579E-06	3.947E-06	3200
98.0	15.5	1984	1.451E-06	3.628E-06	3200
98.0	18.6	1786	1.303E-06	3.258E-06	3200
98.0	21.7	2276	1.699E-06	4.247E-06	3200
98.0	24.8	1130	8.464E-07	2.116E-06	3200
98.0	31.0	1277	9.533E-07	2.383E-06	3200
98.0	37.2	695	5.191E-07	1.298E-06	3200
98.0	43.4	598	4.468E-07	1.117E-06	3200
98.0	49.6	208	1.857E-07	4.644E-07	3200
98.0	55.8	138	1.030E-07	2.575E-07	3200
98.0	62.0	76	5.678E-08	1.419E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/80 CM	DISTANCE METERS
106.0	1.5	3958	2.954E-06	7.386E-06	3200
106.0	3.1	4571	3.411E-06	8.529E-06	3200
106.0	6.2	4807	3.289E-06	8.223E-06	3200
106.0	9.3	4229	3.157E-06	7.892E-06	3200
106.0	12.4	5128	3.827E-06	9.568E-06	3200
106.0	15.5	5125	3.825E-06	9.563E-06	3200
106.0	18.6	5795	4.325E-06	1.081E-05	3200
106.0	21.7	5026	3.751E-06	9.378E-06	3200
106.0	24.8	3361	2.509E-06	6.272E-06	3200
106.0	31.0	3795	2.832E-06	7.081E-06	3200
106.0	37.2	3163	2.361E-06	5.902E-06	3200
106.0	43.4	3002	2.241E-06	5.602E-06	3200
106.0	49.6	854	6.375E-07	1.598E-06	3200
106.0	55.8	1184	8.837E-07	2.209E-06	3200
T 106.0	62.0	26	1.947E-08	4.867E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/80 CM	DISTANCE METERS
114.0	1.5	3	2.467E-09	6.168E-09	3200
114.0	3.1	11	8.635E-09	2.159E-08	3200
114.0	6.2	8	6.168E-09	1.542E-08	3200
114.0	9.3	3	2.467E-09	6.168E-09	3200
114.0	12.4	7	5.551E-09	1.388E-08	3200
114.0	15.5	11	6.635E-09	2.159E-08	3200
114.0	18.6	25	1.912E-08	4.780E-08	3200
114.0	21.7	52	3.886E-08	9.718E-08	3200
114.0	24.8	15	1.154E-08	2.884E-08	3200
114.0	31.0	4	3.146E-09	7.866E-09	3200
114.0	37.2	72	5.401E-08	1.350E-07	3200
114.0	43.4	127	9.544E-08	2.386E-07	3200
114.0	49.6	156	1.168E-07	2.920E-07	3200
114.0	55.8	105	1.087E-07	2.717E-07	3200
114.0	62.0	302	2.259E-07	5.647E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/80 CM	DISTANCE METERS
122.0	3.1	8	6.168E-09	1.542E-08	3200
122.0	6.2	9	6.785E-09	1.696E-08	3200

30-SERIES EXPERIMENT: 56 (FT-56)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS

1FST FT56 AUGUST 3, 1961 0545 TO 0615 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 0.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
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68.0	124	9.292E-08	7.434E-08	200
70.0	134	1.005E-07	8.036E-08	200
72.0	205	1.532E-07	1.226E-07	200
74.0	20	1.507E-08	1.205E-08	200
76.0	20	1.507E-08	1.205E-08	200
78.0	205	1.532E-07	1.226E-07	200
80.0	121	9.041E-08	7.233E-08	200
82.0	144	1.040E-07	8.639E-08	200
84.0	164	1.231E-07	9.845E-08	200
86.0	275	2.059E-07	1.647E-07	200
88.0	508	3.792E-07	3.034E-07	200
90.0	487	3.642E-07	2.913E-07	200
92.0	450	3.365E-07	2.692E-07	200
94.0	767	5.726E-07	4.581E-07	200
96.0	383	2.863E-07	2.290E-07	200
98.0	437	3.265E-07	2.612E-07	200
100.0	615	4.596E-07	3.677E-07	200
102.0	3072	2.293E-06	1.834E-06	200
104.0	19050	1.422E-05	1.137E-05	200
106.0	94338	7.040E-05	5.632E-05	200
108.0	262799	1.961E-04	1.569E-04	200
110.0	283839	2.118E-04	1.695E-04	200
112.0	636868	4.753E-04	3.802E-04	200
114.0	938704	7.065E-04	5.604E-04	200
116.0	1355751	1.012E-03	8.094E-04	200
118.0	1747753	1.304E-03	1.043E-03	200
120.0	1813093	1.353E-03	1.082E-03	200
122.0	1523421	1.137E-03	9.095E-04	200
124.0	1241806	9.267E-04	7.414E-04	200
126.0	1049731	7.834E-04	6.267E-04	200
128.0	787285	5.875E-04	4.700E-04	200
130.0	510738	3.811E-04	3.049E-04	200
132.0	224782	1.677E-04	1.342E-04	200
134.0	253790	1.894E-04	1.515E-04	200
136.0	359315	2.681E-04	2.145E-04	200
138.0	430954	3.216E-04	2.573E-04	200
140.0	637497	4.757E-04	3.806E-04	200
142.0	829367	6.189E-04	4.951E-04	200
144.0	736375	5.495E-04	4.396E-04	200
146.0	376579	2.810E-04	2.248E-04	200
148.0	117901	8.799E-05	7.039E-05	200
150.0	15076	1.125E-05	9.001E-06	200
152.0	713	5.324E-07	4.259E-07	200
154.0	50	3.767E-08	3.014E-08	200
156.0	37	2.763E-08	2.210E-08	200
158.0	20	1.507E-08	1.205E-08	200

CROSSWIND INTEGRATED= 8.446E-02 SEC/SEC, 6.775E-02 1/M

TOWER DATA FOLLOW...

TEST FT56 AUGUST 3, 1961 0545 TO 0615 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 0.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
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98.0	0.7	427	3.191E-07	2.553E-07	200
98.0	1.4	312	2.330E-07	1.864E-07	200
98.0	2.7	413	3.089E-07	2.471E-07	200
98.0	4.1	121	9.031E-08	7.225E-08	200
98.0	5.4	167	1.246E-07	9.971E-08	200
98.0	6.8	91	6.860E-08	5.491E-08	200
98.0	8.1	45	3.432E-08	2.746E-08	200
98.0	9.4	24	1.806E-08	1.445E-08	200
98.0	10.8	50	3.793E-08	3.035E-08	200
98.0	13.5	0	0.000E+00	0.000E+00	200
98.0	16.2	12	9.031E-09	7.225E-09	200
98.0	18.9	16	1.260E-08	1.012E-08	200
98.0	21.6	24	1.806E-08	1.445E-08	200
98.0	24.3	0	0.000E+00	0.000E+00	200
98.0	27.0	30	2.271E-08	1.817E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
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106.0	0.7	113846	8.496E-05	6.797E-05	200
106.0	1.4	69904	5.217E-05	4.173E-05	200
106.0	2.7	62253	4.646E-05	3.717E-05	200
106.0	4.1	49957	3.726E-05	2.983E-05	200
106.0	5.4	36432	2.719E-05	2.175E-05	200
106.0	6.8	25039	1.869E-05	1.495E-05	200
106.0	8.1	12494	9.324E-06	7.459E-06	200
106.0	9.4	5109	3.813E-06	3.050E-06	200
106.0	10.8	2221	1.658E-06	1.327E-06	200
106.0	13.5	142	1.066E-07	8.524E-08	200
106.0	16.2	0	0.000E+00	0.000E+00	200
106.0	18.9	12	9.031E-09	7.225E-09	200
106.0	21.6	31	2.348E-08	1.879E-08	200
106.0	24.3	59	4.409E-08	3.527E-08	200
106.0	27.0	10	1.069E-08	8.550E-09	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
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114.0	0.7	1184742	8.841E-04	7.073E-04	200
114.0	1.4	667280	4.980E-04	3.984E-04	200
114.0	2.7	478698	3.572E-04	2.858E-04	200
114.0	4.1	355303	2.652E-04	2.121E-04	200
114.0	5.4	252123	1.882E-04	1.505E-04	200
114.0	6.8	174260	1.300E-04	1.040E-04	200
114.0	8.1	128003	9.553E-05	7.642E-05	200
114.0	9.4	88069	6.572E-05	5.258E-05	200
114.0	10.8	40108	2.993E-05	2.395E-05	200
114.0	13.5	5167	3.856E-06	3.085E-06	200
114.0	16.2	910	6.792E-07	5.433E-07	200
114.0	18.9	70	5.236E-08	4.191E-08	200
114.0	21.6	84	6.322E-08	5.058E-08	200
114.0	24.3	23	1.737E-08	1.389E-08	200
114.0	27.0	17	1.336E-08	1.069E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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122.0	0.7	1477A03	1.103E-03	8.823E-04	200
122.0	1.4	1055A03	7.880E-04	6.304E-04	200
122.0	2.7	956097	7.135E-04	5.704E-04	200
122.0	4.1	9A9307	7.230E-04	5.787E-04	200
122.0	5.4	826154	6.165E-04	4.932E-04	200
122.0	6.8	397941	2.970E-04	2.374E-04	200
122.0	8.1	447813	3.342E-04	2.674E-04	200
122.0	9.4	242530	1.810E-04	1.444E-04	200
122.0	10.8	126926	4.472E-05	7.574E-05	200
122.0	13.5	52259	3.906E-05	3.120E-05	200
122.0	16.2	13975	1.043E-05	4.344E-06	200
122.0	18.9	2231	1.665E-06	1.332E-06	200
122.0	21.6	510	3.811E-07	3.049E-07	200
122.0	24.3	64	4.810E-08	3.849E-08	200
122.0	27.0	2A	2.138E-08	1.710E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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130.0	0.7	522116	3.896E-04	3.117E-04	200
130.0	1.4	352011	2.627E-04	2.102E-04	200
130.0	2.7	280846	2.094E-04	1.677E-04	200
130.0	4.1	273265	2.035E-04	1.631E-04	200
130.0	5.4	215410	1.608E-04	1.286E-04	200
130.0	6.8	198444	1.481E-04	1.185E-04	200
130.0	8.1	167023	1.246E-04	9.972E-05	200
130.0	9.4	104763	8.117E-05	6.493E-05	200
130.0	10.8	81547	6.049E-05	4.871E-05	200
130.0	13.5	36354	2.713E-05	2.170E-05	200
130.0	16.2	17446	1.302E-05	1.042E-05	200
130.0	18.9	8413	6.274E-06	5.023E-06	200
130.0	21.6	2321	1.732E-06	1.386E-06	200
130.0	24.3	238	1.777E-07	1.421E-07	200
130.0	27.0	84	6.279E-08	5.023E-08	200

TFST FT56 AUGUST 3, 1961 0545 TO 0615 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM APC SAMPLER HT 1.5M U= 0.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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70.0	9	7.288E-09	5.830E-09	800
72.0	9	7.288E-09	5.830E-09	800
74.0	26	1.943E-08	1.555E-08	800
76.0	26	1.943E-08	1.555E-08	800
78.0	45	3.401E-08	2.721E-08	800
80.0	39	2.915E-08	2.332E-08	800
82.0	143	1.069E-07	8.551E-08	800
84.0	45	3.401E-08	2.721E-08	800
86.0	81	6.073E-08	4.859E-08	800
88.0	65	4.859E-08	3.887E-08	800
90.0	81	6.073E-08	4.859E-08	800
92.0	87	6.559E-08	5.247E-08	800
94.0	240	1.798E-07	1.438E-07	800
96.0	442	3.304E-07	2.643E-07	800
98.0	908	6.778E-07	5.422E-07	800
100.0	1868	1.394E-06	1.116E-06	800
102.0	3909	2.918E-06	2.334E-06	800
104.0	5781	4.314E-06	3.452E-06	800
106.0	9896	7.345E-06	5.908E-06	800
108.0	11500	8.583E-06	6.866E-06	800
110.0	11269	8.410E-06	6.728E-06	800
112.0	10778	8.043E-06	6.435E-06	800
114.0	14590	1.089E-05	8.711E-06	800
116.0	41706	3.112E-05	2.490E-05	800
118.0	146191	1.091E-04	8.728E-05	800
120.0	295159	2.203E-04	1.762E-04	800
122.0	301273	2.248E-04	1.799E-04	800
124.0	89412	6.673E-05	5.338E-05	800
126.0	26192	1.955E-05	1.564E-05	800
128.0	15693	1.171E-05	9.369E-06	800
130.0	17519	1.307E-05	1.046E-05	800
132.0	15348	1.145E-05	9.163E-06	800
134.0	188	1.409E-07	1.127E-07	800
136.0	22523	1.681E-05	1.345E-05	800
138.0	24209	1.807E-05	1.445E-05	800
140.0	29740	2.219E-05	1.776E-05	800
142.0	37409	2.792E-05	2.233E-05	800
144.0	40202	3.000E-05	2.400E-05	800
146.0	22640	1.690E-05	1.352E-05	800
148.0	2285	1.705E-06	1.364E-06	800
150.0	52	3.847E-08	3.110E-08	800
152.0	3	2.429E-09	1.943E-09	800
154.0	3	2.429E-09	1.943E-09	800
156.0	0	0.000E+00	0.000E+00	800
158.0	3	2.429E-09	1.943E-09	800
160.0	19	1.458E-08	1.166E-08	800

CROSSWIND INTEGRATED = 2.500E-02 SEC/34.M 2.000E-02 1/M

TOWER DATA FOLLOW...

TEST FT56 AUGUST 3, 1961 0545 TO 0615 PST
ZINC SULFIDE RELEASE FROM FLEAVATION OF 2M
800M ARC U= 0.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. ² X10E+6	E/G SEC/CM. ²	EU/G 1/SQ.M	DISTANCE METERS
98.0	1.0	770	5.788E-07	4.599E-07	800
98.0	2.1	625	4.665E-07	3.732E-07	800
98.0	4.2	297	2.219E-07	1.775E-07	800
98.0	6.3	189	1.415E-07	1.132E-07	800
98.0	8.4	110	8.212E-08	6.570E-08	800
98.0	10.5	51	3.844E-08	3.075E-08	800
98.0	12.6	21	1.573E-08	1.258E-08	800
98.0	14.7	7	5.242E-09	4.193E-09	800
98.0	16.8	9	6.989E-09	5.591E-09	800
98.0	21.0	0	0.000E+00	0.000E+00	800
Z 98.0	25.2	0	0.000E+00	0.000E+00	800
98.0	29.4	0	0.000E+00	0.000E+00	800
98.0	33.6	0	0.000E+00	0.000E+00	800
98.0	37.8	0	0.000E+00	0.000E+00	800
98.0	42.0	1	1.292E-09	1.034E-09	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. ² X10E+6	E/G SEC/CM. ²	EU/G 1/SQ.M	DISTANCE METERS
106.0	1.0	7735	5.773E-06	4.618E-06	800
106.0	2.1	6075	4.534E-06	3.627E-06	800
106.0	4.2	3053	2.278E-06	1.823E-06	800
106.0	6.3	1770	1.321E-06	1.057E-06	800
106.0	8.4	952	7.111E-07	5.689E-07	800
106.0	10.5	545	4.071E-07	3.257E-07	800
106.0	12.6	217	1.625E-07	1.300E-07	800
106.0	14.7	53	4.014E-08	3.215E-08	800
106.0	16.8	23	1.747E-08	1.398E-08	800
106.0	21.0	9	6.989E-09	5.591E-09	800
106.0	25.2	0	0.000E+00	0.000E+00	800
106.0	29.4	0	0.000E+00	0.000E+00	800
106.0	33.6	0	0.000E+00	0.000E+00	800
106.0	37.8	0	0.000E+00	0.000E+00	800
106.0	42.0	0	0.000E+00	0.000E+00	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. ² X10E+6	E/G SEC/CM. ²	EU/G 1/SQ.M	DISTANCE METERS
114.0	1.0	10332	7.711E-06	6.169E-06	800
114.0	2.1	9215	6.877E-06	5.502E-06	800
114.0	4.2	6623	4.943E-06	3.954E-06	800
114.0	6.3	7939	5.925E-06	4.740E-06	800
114.0	8.4	7143	5.331E-06	4.265E-06	800
114.0	10.5	6007	4.483E-06	3.587E-06	800
114.0	12.6	2170	1.620E-06	1.298E-06	800
114.0	14.7	793	5.923E-07	4.739E-07	800
114.0	16.8	182	1.363E-07	1.090E-07	800
114.0	21.0	79	5.941E-08	4.753E-08	800
114.0	25.2	0	0.000E+00	0.000E+00	800
114.0	29.4	34	2.585E-08	2.068E-08	800
114.0	33.6	13	1.034E-08	8.271E-09	800
114.0	37.8	0	0.000E+00	0.000E+00	800
114.0	42.0	0	0.000E+00	0.000E+00	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. ² X10E+6	E/G SEC/CM. ²	EU/G 1/SQ.M	DISTANCE METERS
122.0	1.0	172480	1.287E-04	1.030E-04	800
122.0	2.1	221062	1.650E-04	1.320E-04	800
122.0	4.2	211418	1.578E-04	1.262E-04	800
122.0	6.3	163552	1.221E-04	9.764E-05	800
122.0	8.4	130259	9.721E-05	7.777E-05	800
122.0	10.5	86661	6.467E-05	5.174E-05	800
122.0	12.6	69605	5.194E-05	4.156E-05	800
122.0	14.7	56521	4.218E-05	3.374E-05	800
122.0	16.8	48996	3.656E-05	2.925E-05	800
122.0	21.0	15040	1.122E-05	8.979E-06	800
122.0	25.2	8097	6.043E-06	4.834E-06	800
122.0	29.4	2722	2.032E-06	1.625E-06	800
Z 122.0	33.6	926	6.914E-07	5.531E-07	800
122.0	37.8	358	2.675E-07	2.140E-07	800
122.0	42.0	51	3.877E-08	3.102E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. ² X10E+6	E/G SEC/CM. ²	EU/G 1/SQ.M	DISTANCE METERS
130.0	1.0	9433	7.040E-06	5.632E-06	800
130.0	2.1	8946	6.676E-06	5.341E-06	800
130.0	4.2	8817	6.580E-06	5.264E-06	800
130.0	6.3	4104	3.063E-06	2.450E-06	800
130.0	8.4	7855	5.862E-06	4.690E-06	800
S 130.0	10.5	4755	3.549E-06	2.839E-06	800
S 130.0	12.6	5111	3.814E-06	3.051E-06	800
130.0	14.7	6611	4.934E-06	3.947E-06	800
130.0	16.8	1929	1.440E-06	1.152E-06	800
130.0	21.0	2348	1.752E-06	1.402E-06	800
130.0	25.2	976	7.289E-07	5.831E-07	800
130.0	29.4	540	4.032E-07	3.226E-07	800
T 130.0	33.6	53	4.006E-08	3.205E-08	800
T 130.0	37.8	12	9.046E-09	7.237E-09	800
130.0	42.0	13	1.034E-08	8.271E-09	800

TEST FT56 AUGUST 3, 1961 0545 TO 0615 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 0.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/O SEC/CM	EU/O 1/SEC	DISTANCE METERS
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90.0	225	1.682E-07	1.346E-07	1600
91.0	223	1.665E-07	1.332E-07	1600
92.0	304	2.271E-07	1.817E-07	1600
93.0	272	2.035E-07	1.628E-07	1600
94.0	378	2.826E-07	2.261E-07	1600
95.0	58	4.374E-08	3.499E-08	1600
96.0	556	4.155E-07	3.324E-07	1600
97.0	601	4.491E-07	3.593E-07	1600
98.0	1553	1.159E-06	9.272E-07	1600
99.0	3498	2.611E-06	2.089E-06	1600
100.0	4724	3.526E-06	2.821E-06	1600
101.0	5941	4.434E-06	3.547E-06	1600
102.0	6548	4.887E-06	3.909E-06	1600
103.0	8166	6.095E-06	4.876E-06	1600
104.0	8141	6.076E-06	4.861E-06	1600
105.0	8225	6.138E-06	4.911E-06	1600
106.0	9710	7.247E-06	5.798E-06	1600
107.0	10400	7.762E-06	6.209E-06	1600
108.0	10727	8.006E-06	6.404E-06	1600
109.0	9264	6.914E-06	5.531E-06	1600
110.0	10984	8.197E-06	6.558E-06	1600
111.0	13921	1.039E-05	8.311E-06	1600
112.0	14802	1.105E-05	8.838E-06	1600
113.0	15963	1.191E-05	9.531E-06	1600
114.0	14606	1.090E-05	8.721E-06	1600
115.0	19629	1.465E-05	1.172E-05	1600
116.0	16637	1.242E-05	9.933E-06	1600
117.0	21324	1.591E-05	1.273E-05	1600
118.0	16144	1.208E-05	9.663E-06	1600
119.0	26731	1.995E-05	1.596E-05	1600
120.0	30047	2.242E-05	1.794E-05	1600
121.0	40437	3.018E-05	2.414E-05	1600
122.0	39848	2.974E-05	2.379E-05	1600
123.0	3965	2.959E-06	2.367E-06	1600
124.0	14282	1.066E-05	8.527E-06	1600
125.0	12877	9.610E-06	7.688E-06	1600
126.0	13060	9.747E-06	7.797E-06	1600
127.0	11414	8.519E-06	6.815E-06	1600
128.0	7375	5.504E-06	4.403E-06	1600
129.0	12517	9.341E-06	7.473E-06	1600
130.0	13310	9.933E-06	7.947E-06	1600
131.0	12114	9.043E-06	7.235E-06	1600
132.0	11047	8.244E-06	6.596E-06	1600
133.0	8663	6.614E-06	5.292E-06	1600
134.0	9688	7.230E-06	5.784E-06	1600
135.0	1075	8.024E-07	6.419E-07	1600
136.0	5495	4.101E-06	3.281E-06	1600
137.0	5139	3.835E-06	3.068E-06	1600
138.0	4478	3.343E-06	2.674E-06	1600
139.0	3854	2.877E-06	2.301E-06	1600
140.0	3883	2.908E-06	2.319E-06	1600
141.0	4548	3.395E-06	2.716E-06	1600
142.0	4963	3.704E-06	2.963E-06	1600
143.0	6498	4.850E-06	3.880E-06	1600
144.0	4835	3.608E-06	2.887E-06	1600
145.0	3453	2.577E-06	2.062E-06	1600
146.0	1169	8.731E-07	6.984E-07	1600
147.0	236	1.766E-07	1.413E-07	1600
148.0	54	4.037E-08	3.230E-08	1600
149.0	6	5.047E-09	4.037E-09	1600
150.0	0	0.000E+00	0.000E+00	1600
151.0	0	0.000E+00	0.000E+00	1600
152.0	0	0.000E+00	0.000E+00	1600
153.0	0	0.000E+00	0.000E+00	1600
154.0	0	0.000E+00	0.000E+00	1600

CROSSKIND INTEGRATED= 1.14AE-02 9.184E-03
SEC/CM 1/M

TOWER DATA FOLLOW....

TEST FT56 AUGUST 3, 1961 0545 TO 0615 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC U= 0.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/O SEC/CM	EU/O 1/SEC	DISTANCE METERS
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98.0	1.5	964	7.196E-07	5.757E-07	1600
98.0	3.1	806	6.019E-07	4.815E-07	1600
98.0	6.2	494	3.692E-07	2.953E-07	1600
98.0	9.3	268	2.006E-07	1.605E-07	1600
98.0	12.4	195	1.452E-07	1.166E-07	1600
98.0	15.5	73	5.488E-08	4.387E-08	1600
98.0	18.6	64	4.815E-08	3.852E-08	1600
98.0	21.7	55	4.146E-08	3.317E-08	1600
98.0	24.8	6	5.174E-09	4.140E-09	1600
98.0	31.0	15	1.138E-08	9.107E-09	1600
98.0	37.2	5	4.140E-09	3.312E-09	1600
98.0	43.4	0	0.000E+00	0.000E+00	1600
98.0	49.6	0	3.522E-09	2.817E-09	1600
98.0	55.8	0	0.000E+00	0.000E+00	1600
98.0	62.0	1	1.405E-09	1.127E-09	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/O SEC/CM	EU/O 1/SEC	DISTANCE METERS
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106.0	1.5	5391	4.023E-06	3.219E-06	1600
106.0	3.1	6065	4.526E-06	3.621E-06	1600
106.0	6.2	519	3.879E-07	3.103E-07	1600
106.0	9.3	2600	1.941E-06	1.553E-06	1600
106.0	12.4	1127	8.413E-07	6.731E-07	1600
106.0	15.5	376	2.809E-07	2.247E-07	1600
106.0	18.6	89	6.688E-08	5.350E-08	1600
106.0	21.7	32	2.408E-08	1.926E-08	1600
106.0	24.8	9	7.244E-09	5.795E-09	1600
106.0	31.0	0	0.000E+00	0.000E+00	1600
106.0	37.2	0	0.000E+00	0.000E+00	1600
106.0	43.4	0	0.000E+00	0.000E+00	1600
106.0	49.6	0	0.000E+00	0.000E+00	1600
106.0	55.8	0	7.043E-10	5.635E-10	1600
106.0	62.0	0	0.000E+00	0.000E+00	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/O SEC/CM	EU/O 1/SEC	DISTANCE METERS
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114.0	1.5	11877	8.864E-06	7.091E-06	1600
114.0	3.1	10918	8.188E-06	6.519E-06	1600
114.0	6.2	6814	5.085E-06	4.068E-06	1600
114.0	9.3	1147	8.560E-07	6.848E-07	1600
114.0	12.4	1919	1.358E-06	1.086E-06	1600
114.0	15.5	1186	8.855E-07	7.084E-07	1600
114.0	18.6	100	7.490E-08	5.992E-08	1600
114.0	21.7	25	1.873E-08	1.498E-08	1600
114.0	24.8	34	2.587E-08	2.070E-08	1600
114.0	31.0	8	6.209E-09	4.967E-09	1600
114.0	37.2	0	0.000E+00	0.000E+00	1600
114.0	43.4	8	6.209E-09	4.967E-09	1600
114.0	49.6	0	0.000E+00	0.000E+00	1600
114.0	55.8	0	0.000E+00	0.000E+00	1600
114.0	62.0	0	7.043E-10	5.635E-10	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FL/G 1/SG,M	DISTANCE METERS
122.0	1.5	21835	1.630E-05	1.304E-05	1600
122.0	3.1	33557	2.504E-05	2.003E-05	1600
122.0	6.2	36566	2.729E-05	2.183E-05	1600
122.0	9.3	39906	2.981E-05	2.385E-05	1600
2 122.0	12.4	36731	2.741E-05	2.193E-05	1600
122.0	15.5	31998	2.388E-05	1.910E-05	1600
122.0	18.6	28967	2.162E-05	1.729E-05	1600
122.0	21.7	19697	1.470E-05	1.174E-05	1600
122.0	24.8	10401	7.763E-06	6.210E-06	1600
122.0	31.0	3349	2.529E-06	2.023E-06	1600
122.0	37.2	535	3.995E-07	3.194E-07	1600
122.0	43.4	135	1.014E-07	8.113E-08	1600
122.0	49.6	6	4.930E-09	3.944E-09	1600
122.0	55.8	4	3.522E-09	2.817E-09	1600
122.0	62.0	9	7.003E-09	5.635E-09	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FL/G 1/SG,M	DISTANCE METERS
130.0	1.5	5944	4.453E-06	3.562E-06	1600
130.0	3.1	5859	4.372E-06	3.498E-06	1600
130.0	6.2	7321	5.464E-06	4.371E-06	1600
130.0	9.3	3224	2.406E-06	1.925E-06	1600
130.0	12.4	4260	3.179E-06	2.503E-06	1600
130.0	15.5	2916	2.176E-06	1.741E-06	1600
130.0	18.6	1699	1.268E-06	1.014E-06	1600
130.0	21.7	1202	8.975E-07	7.180E-07	1600
130.0	24.8	593	4.424E-07	3.543E-07	1600
130.0	31.0	151	1.128E-07	9.024E-08	1600
130.0	37.2	40	3.001E-08	2.401E-08	1600
130.0	43.4	26	1.966E-08	1.573E-08	1600
130.0	49.6	2	2.113E-09	1.690E-09	1600
130.0	55.8	0	0.000E+00	0.000E+00	1600
130.0	62.0	10	7.747E-09	6.198E-09	1600

TEST FT56 AUGUST 3, 1961 0545 TO 0615 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HI 1.5M U₀ 0.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FL/G 1/SG,M	DISTANCE METERS
71.0	159	1.187E-07	9.494E-08	3200
72.0	150	1.126E-07	9.007E-08	3200
73.0	238	1.780E-07	1.424E-07	3200
74.0	248	1.856E-07	1.485E-07	3200
75.0	175	1.309E-07	1.047E-07	3200
76.0	173	1.293E-07	1.035E-07	3200
77.0	152	1.141E-07	9.129E-08	3200
78.0	174	1.301E-07	1.041E-07	3200
79.0	180	1.347E-07	1.077E-07	3200
80.0	37	2.815E-08	2.252E-08	3200
81.0	212	1.582E-07	1.266E-07	3200
82.0	155	1.164E-07	9.312E-08	3200
83.0	217	1.620E-07	1.296E-07	3200
84.0	295	2.206E-07	1.765E-07	3200
85.0	403	3.013E-07	2.410E-07	3200
86.0	238	1.780E-07	1.424E-07	3200
87.0	358	2.678E-07	2.142E-07	3200
88.0	265	1.978E-07	1.582E-07	3200
89.0	310	2.320E-07	1.856E-07	3200
90.0	344	2.547E-07	2.069E-07	3200
91.0	436	3.256E-07	2.605E-07	3200
92.0	459	3.431E-07	2.745E-07	3200
93.0	482	3.598E-07	2.879E-07	3200
94.0	286	2.138E-07	1.710E-07	3200
95.0	424	3.165E-07	2.532E-07	3200
96.0	553	4.131E-07	3.305E-07	3200
97.0	452	3.378E-07	2.702E-07	3200
98.0	260	1.948E-07	1.558E-07	3200
99.0	2	1.522E-09	1.217E-09	3200
100.0	512	3.827E-07	3.061E-07	3200
101.0	396	2.959E-07	2.367E-07	3200
102.0	616	4.603E-07	3.682E-07	3200
103.0	498	3.720E-07	2.976E-07	3200
104.0	373	2.784E-07	2.228E-07	3200
105.0	485	3.621E-07	2.897E-07	3200
106.0	585	4.367E-07	3.493E-07	3200
2 107.0	0	0.000E+00	0.000E+00	3200
2 108.0	1	7.608E-10	6.086E-10	3200
2 109.0	0	0.000E+00	0.000E+00	3200
110.0	1456	1.047E-06	8.697E-07	3200
111.0	1848	1.379E-06	1.103E-06	3200
112.0	1796	1.340E-06	1.072E-06	3200
113.0	3841	2.867E-06	2.293E-06	3200
114.0	4794	3.578E-06	2.862E-06	3200
115.0	5456	4.072E-06	3.258E-06	3200
116.0	749	5.888E-07	4.711E-07	3200
117.0	3827	2.857E-06	2.285E-06	3200
118.0	3305	2.467E-06	1.974E-06	3200
119.0	3312	2.472E-06	1.977E-06	3200
120.0	2811	2.098E-06	1.679E-06	3200
2 121.0	0	0.000E+00	0.000E+00	3200
2 122.0	2	1.522E-09	1.217E-09	3200
2 123.0	0	0.000E+00	0.000E+00	3200
3 124.0	870	6.497E-07	5.198E-07	3200
3 125.0	855	6.343E-07	5.106E-07	3200
3 126.0	774	5.782E-07	4.625E-07	3200
4 127.0	695	5.188E-07	4.151E-07	3200
128.0	941	7.029E-07	5.624E-07	3200
129.0	665	4.968E-07	3.974E-07	3200
130.0	667	4.983E-07	3.986E-07	3200
131.0	848	6.330E-07	5.064E-07	3200
132.0	848	6.330E-07	5.064E-07	3200
133.0	503	3.758E-07	3.007E-07	3200
134.0	451	3.370E-07	2.696E-07	3200
135.0	341	2.540E-07	2.039E-07	3200
136.0	249	1.864E-07	1.491E-07	3200
137.0	13	9.890E-09	7.912E-09	3200
138.0	53	3.956E-08	3.165E-08	3200
139.0	1	7.608E-10	6.086E-10	3200
140.0	1	7.608E-10	6.086E-10	3200
141.0	0	0.000E+00	0.000E+00	3200
142.0	0	0.000E+00	0.000E+00	3200
143.0	2	1.522E-09	1.217E-09	3200

CROSSWIND INTEGRATED= 2.224E-03 1.779E-03
SEC/SG,M 1/M

TOWER DATA FOLLOW....

TEST F156 AUGUST 3, 1961 0545 TO 0615 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC U= 0.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
98.0	1.5	421	3.147E-07	2.517E-07	3200
98.0	3.1	444	3.320E-07	2.656E-07	3200
98.0	6.2	505	3.769E-07	3.015E-07	3200
98.0	9.3	363	2.711E-07	2.169E-07	3200
98.0	12.4	445	3.327E-07	2.661E-07	3200
98.0	15.5	364	2.718E-07	2.179E-07	3200
98.0	18.6	306	2.285E-07	1.831E-07	3200
98.0	21.7	246	1.840E-07	1.472E-07	3200
98.0	24.8	271	2.023E-07	1.618E-07	3200
98.0	31.0	227	1.696E-07	1.357E-07	3200
98.0	37.2	173	1.295E-07	1.036E-07	3200
98.0	43.4	142	1.067E-07	8.536E-08	3200
98.0	49.6	46	6.479E-08	5.183E-08	3200
98.0	55.8	49	3.723E-08	2.978E-08	3200
98.0	62.0	41	3.095E-08	2.476E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
106.0	1.5	624	4.661E-07	3.729E-07	3200
106.0	3.1	701	5.235E-07	4.188E-07	3200
106.0	6.2	480	3.582E-07	2.866E-07	3200
106.0	9.3	429	3.202E-07	2.562E-07	3200
106.0	12.4	55	4.150E-08	3.320E-08	3200
106.0	15.5	432	3.230E-07	2.584E-07	3200
106.0	18.6	529	3.949E-07	3.159E-07	3200
106.0	21.7	518	3.873E-07	3.098E-07	3200
106.0	24.8	436	3.257E-07	2.605E-07	3200
106.0	31.0	374	2.806E-07	2.245E-07	3200
106.0	37.2	275	2.054E-07	1.643E-07	3200
106.0	43.4	191	1.431E-07	1.145E-07	3200
106.0	49.6	5	4.352E-09	3.481E-09	3200
106.0	55.8	46	7.204E-08	5.764E-08	3200
106.0	62.0	2	1.930E-09	1.547E-09	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
114.0	1.5	4299	3.208E-06	2.567E-06	3200
114.0	3.1	3656	2.729E-06	2.183E-06	3200
114.0	6.2	3943	2.943E-06	2.354E-06	3200
114.0	9.3	2971	2.217E-06	1.774E-06	3200
114.0	12.4	3365	2.511E-06	2.009E-06	3200
114.0	15.5	2561	1.912E-06	1.529E-06	3200
114.0	18.6	1846	1.378E-06	1.103E-06	3200
114.0	21.7	1499	1.110E-06	8.952E-07	3200
114.0	24.8	929	6.939E-07	5.551E-07	3200
114.0	31.0	31	2.344E-08	1.875E-08	3200
114.0	37.2	212	1.585E-07	1.268E-07	3200
114.0	43.4	159	1.190E-07	9.523E-08	3200
114.0	49.6	72	5.415E-08	4.332E-08	3200
114.0	55.8	27	2.031E-08	1.625E-08	3200
114.0	62.0	15	1.160E-08	9.284E-09	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
122.0	1.5	4541	3.390E-06	2.712E-06	3200
122.0	3.1	5115	3.818E-06	3.054E-06	3200
122.0	6.2	1501	1.120E-06	8.963E-07	3200
122.0	9.3	1077	8.043E-07	6.435E-07	3200
122.0	12.4	1425	1.064E-06	8.509E-07	3200
122.0	15.5	1669	1.246E-06	9.965E-07	3200
122.0	18.6	151	1.134E-07	9.074E-08	3200
122.0	21.7	4960	3.702E-06	2.962E-06	3200
122.0	24.8	4662	3.479E-06	2.783E-06	3200
122.0	31.0	2563	1.913E-06	1.531E-06	3200
122.0	37.2	252	1.887E-07	1.510E-07	3200
122.0	43.4	15	1.172E-08	9.375E-09	3200
122.0	49.6	1	1.451E-09	1.160E-09	3200
122.0	55.8	0	0.000E+00	0.000E+00	3200
122.0	62.0	3	2.418E-09	1.934E-09	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
130.0	1.5	300	2.538E-07	2.031E-07	3200
130.0	3.1	641	4.938E-07	3.950E-07	3200
130.0	6.2	636	4.751E-07	3.801E-07	3200
130.0	9.3	643	4.952E-07	3.961E-07	3200
130.0	12.4	943	7.193E-07	5.754E-07	3200
130.0	15.5	1096	8.182E-07	6.545E-07	3200
130.0	18.6	1222	9.122E-07	7.298E-07	3200
130.0	21.7	1344	1.018E-06	8.104E-07	3200
130.0	24.8	1213	9.054E-07	7.244E-07	3200
130.0	31.0	1356	1.012E-06	8.097E-07	3200
130.0	37.2	941	7.321E-07	5.857E-07	3200
130.0	43.4	890	6.649E-07	5.319E-07	3200
130.0	49.6	548	4.091E-07	3.272E-07	3200
130.0	55.8	258	1.929E-07	1.543E-07	3200
130.0	62.0	159	1.189E-07	9.516E-08	3200

30-SERIES EXPERIMENT: 57 (FT-57)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS

TEST FT57 AUGUST 9, 1961 0459 TO 0529 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
76.0	2	2.005E-09	5.213E-09	200	
78.0	31	2.205E-08	5.734E-08	200	
80.0	5	4.010E-09	1.043E-08	200	
82.0	5	4.010E-09	1.043E-08	200	
84.0	33	2.406E-08	6.255E-08	200	
86.0	31	2.205E-08	5.734E-08	200	
88.0	5	4.010E-09	1.043E-08	200	
90.0	36	2.606E-08	6.776E-08	200	
92.0	16	1.203E-08	3.128E-08	200	
94.0	14	1.002E-08	2.606E-08	200	
S 96.0	226	1.604E-07	4.170E-07	200	
98.0	1778	1.261E-06	3.279E-06	200	
100.0	13743	9.748E-06	2.534E-05	200	
102.0	75775	5.374E-05	1.397E-04	200	
104.0	256378	1.818E-04	4.728E-04	200	
106.0	495145	3.512E-04	9.130E-04	200	
108.0	930519	6.628E-04	1.723E-03	200	
110.0	1162856	8.247E-04	2.144E-03	200	
112.0	1105016	7.837E-04	2.038E-03	200	
114.0	642198	4.555E-04	1.184E-03	200	
116.0	383437	2.719E-04	7.070E-04	200	
118.0	134988	9.574E-05	2.489E-04	200	
120.0	44115	3.129E-05	8.135E-05	200	
122.0	12200	8.653E-06	2.250E-05	200	
124.0	3199	2.269E-06	5.901E-06	200	
126.0	81	5.814E-08	1.512E-07	200	
128.0	0	0.000E+00	0.000E+00	200	
130.0	0	0.000E+00	0.000E+00	200	
132.0	16	1.203E-08	3.128E-08	200	
134.0	11	8.019E-09	2.085E-08	200	
136.0	0	0.000E+00	0.000E+00	200	
138.0	8	6.015E-09	1.564E-08	200	
140.0	0	0.000E+00	0.000E+00	200	

CROSSWIND INTEGRATED= 2.607E-02 SEC/SQ.M
A.779E-02 1/M

TOWER DATA FOLLOW....

TEST FT57 AUGUST 9, 1961 0459 TO 0529 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 2.6 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
98.0	0.7	1879	1.333E-06	3.465E-06	200
98.0	1.4	1296	9.192E-07	2.390E-06	200
98.0	2.7	1516	1.075E-06	2.796E-06	200
98.0	4.1	1954	1.386E-06	3.605E-06	200
98.0	5.4	1537	1.091E-06	2.836E-06	200
98.0	6.8	322	2.285E-07	5.942E-07	200
98.0	8.1	673	4.774E-07	1.241E-06	200
98.0	9.4	1172	8.316E-07	2.162E-06	200
98.0	10.8	1160	8.227E-07	2.139E-06	200
98.0	13.5	1267	8.989E-07	2.337E-06	200
98.0	16.2	374	2.654E-07	6.899E-07	200
98.0	18.9	116	8.253E-08	2.146E-07	200
98.0	21.6	142	1.295E-07	3.367E-07	200
98.0	24.3	42	3.048E-08	7.925E-08	200
98.0	27.0	24	1.742E-08	4.528E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
114.0	0.7	725473	5.145E-04	1.33E-03	200
114.0	1.4	446924	3.170E-04	8.241E-04	200
114.0	2.7	444494	3.297E-04	8.573E-04	200
R 114.0	4.1	143035	1.014E-04	2.634E-04	200
114.0	5.4	443063	3.142E-04	8.170E-04	200
114.0	6.8	366875	2.602E-04	6.765E-04	200
114.0	8.1	375291	2.662E-04	6.920E-04	200
114.0	9.4	327063	2.320E-04	6.031E-04	200
114.0	10.8	275804	1.956E-04	5.086E-04	200
114.0	13.5	158361	1.123E-04	2.920E-04	200
114.0	16.2	103844	7.365E-05	1.915E-04	200
114.0	18.9	72066	5.111E-05	1.329E-04	200
114.0	21.6	36896	2.617E-05	6.804E-05	200
114.0	24.3	10464	7.421E-06	1.930E-05	200
114.0	27.0	7087	4.970E-06	1.292E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
122.0	0.7	12572	8.917E-06	2.318E-05	200
122.0	1.4	8507	6.033E-06	1.569E-05	200
122.0	2.7	7984	5.663E-06	1.472E-05	200
122.0	4.1	8897	6.310E-06	1.641E-05	200
122.0	5.4	6299	4.468E-06	1.162E-05	200
122.0	6.8	5168	3.665E-06	9.530E-06	200
122.0	8.1	3413	2.421E-06	6.295E-06	200
122.0	9.4	3653	2.591E-06	6.738E-06	200
122.0	10.8	2685	1.904E-06	4.952E-06	200
122.0	13.5	1747	1.239E-06	3.222E-06	200
122.0	16.2	657	4.660E-07	1.211E-06	200
122.0	18.9	721	5.117E-07	1.330E-06	200
122.0	21.6	409	2.907E-07	7.559E-07	200
122.0	24.3	103	7.315E-08	1.902E-07	200
122.0	27.0	44	3.135E-08	8.151E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
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106.0	0.7	527153	3.739E-04	9.721E-04	200
106.0	1.4	322550	2.288E-04	5.948E-04	200
106.0	2.7	304495	2.160E-04	5.615E-04	200
106.0	4.1	285331	2.024E-04	5.261E-04	200
106.0	5.4	235556	1.671E-04	4.344E-04	200
106.0	6.8	254903	1.808E-04	4.700E-04	200
106.0	8.1	226434	1.606E-04	4.175E-04	200
106.0	9.4	148039	1.050E-04	2.730E-04	200
106.0	10.8	187550	1.330E-04	3.458E-04	200
106.0	13.5	125464	8.898E-05	2.318E-04	200
106.0	16.2	82786	5.871E-05	1.527E-04	200
106.0	18.9	56035	3.974E-05	1.033E-04	200
M 106.0	21.6	0	0.000E+00	0.000E+00	200
106.0	24.3	11576	8.210E-06	2.135E-05	200
106.0	27.0	4810	3.412E-06	8.871E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
130.0	0.7	9	6.835E-09	1.777E-08	200	106.0	1.0	9A13	6.960E-06	1.810E-05	800
130.0	1.4	14	1.016E-08	2.641E-08	200	106.0	2.1	11081	7.859E-06	2.043E-05	800
130.0	2.7	390	2.768E-07	7.196E-07	200	106.0	4.2	10130	7.185E-06	1.868E-05	800
130.0	4.1	470	3.339E-07	8.682E-07	200	106.0	6.3	9707	6.885E-06	1.790E-05	800
130.0	5.4	426	3.022E-07	7.857E-07	200	106.0	8.4	10184	7.223E-06	1.878E-05	800
130.0	6.8	153	1.092E-07	2.839E-07	200	106.0	10.5	11067	7.849E-06	2.041E-05	800
130.0	8.1	381	2.704E-07	7.031E-07	200	106.0	12.6	9460	6.709E-06	1.744E-05	800
130.0	9.4	214	1.663E-07	4.324E-07	200	106.0	14.7	7913	5.613E-06	1.459E-05	800
130.0	10.8	189	1.346E-07	3.499E-07	200	106.0	16.8	7867	5.588E-06	1.451E-05	800
130.0	13.5	71	5.079E-08	1.320E-07	200	106.0	21.0	6381	4.526E-06	1.177E-05	800
130.0	16.2	34	2.412E-08	6.272E-08	200	106.0	25.2	2897	2.055E-06	5.342E-06	800
130.0	18.9	127	9.015E-08	2.344E-07	200	0 106.0	29.4	549	3.900E-07	1.014E-06	800
130.0	21.6	19	1.397E-08	3.631E-08	200	0 106.0	33.6	1412	1.002E-06	2.604E-06	800
130.0	24.3	0	0.000E+00	0.000E+00	200	106.0	37.8	515	3.656E-07	9.506E-07	800
130.0	27.0	13	9.579E-09	2.491E-08	200	106.0	42.0	962	6.823E-07	1.774E-06	800

TEST FT57 AUGUST 9, 1961 0459 TO 0529 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
88.0	0	0.000E+00	0.000E+00	800
90.0	2	1.939E-09	5.042E-09	800
92.0	8	5.818E-09	1.513E-08	800
94.0	0	0.000E+00	0.000E+00	800
96.0	0	0.000E+00	0.000E+00	800
98.0	62	4.460E-08	1.160E-07	800
100.0	98	6.982E-08	1.815E-07	800
102.0	735	5.217E-07	1.356E-06	800
104.0	5449	3.865E-06	1.005E-05	800
106.0	19493	1.383E-05	3.595E-05	800
108.0	75199	5.333E-05	1.387E-04	800
110.0	141753	1.005E-04	2.614E-04	800
112.0	119530	8.477E-05	2.204E-04	800
114.0	40674	2.885E-05	7.500E-05	800
116.0	3491	2.477E-06	6.439E-06	800
118.0	161	1.144E-07	2.975E-07	800
120.0	0	0.000E+00	0.000E+00	800
122.0	10	7.757E-09	2.017E-08	800
124.0	0	0.000E+00	0.000E+00	800
126.0	21	1.551E-08	4.034E-08	800
128.0	10	7.757E-09	2.017E-08	800
130.0	10	7.757E-09	2.017E-08	800
148.0	13	9.697E-09	2.521E-08	800

CROSSWIND INTEGRATED= 8.058E-03 2.095E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST FT57 AUGUST 9, 1961 0459 TO 0529 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC U= 2.6 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
98.0	1.0	19	1.351E-08	3.513E-08	800
98.0	2.1	0	0.000E+00	0.000E+00	800
98.0	4.2	0	0.000E+00	0.000E+00	800
98.0	6.3	6	4.913E-09	1.277E-08	800
98.0	8.4	0	0.000E+00	0.000E+00	800
98.0	10.5	8	6.141E-09	1.597E-08	800
98.0	12.6	6	4.913E-09	1.277E-08	800
98.0	14.7	8	6.141E-09	1.597E-08	800
98.0	16.8	12	8.597E-09	2.235E-08	800
98.0	21.0	0	0.000E+00	0.000E+00	800
98.0	25.2	0	0.000E+00	0.000E+00	800
98.0	29.4	0	0.000E+00	0.000E+00	800
98.0	33.6	2	1.685E-09	4.380E-09	800
98.0	37.8	0	0.000E+00	0.000E+00	800
98.0	42.0	0	0.000E+00	0.000E+00	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
114.0	1.0	23443	1.663E-05	4.323E-05	800
114.0	2.1	27786	1.971E-05	5.124E-05	800
114.0	4.2	23668	1.679E-05	4.364E-05	800
114.0	6.3	23353	1.656E-05	4.306E-05	800
114.0	8.4	28500	2.021E-05	5.255E-05	800
114.0	10.5	26590	1.886E-05	4.903E-05	800
114.0	12.6	24984	1.772E-05	4.607E-05	800
114.0	14.7	30249	2.145E-05	5.578E-05	800
114.0	16.8	29163	2.068E-05	5.378E-05	800
114.0	21.0	30850	2.188E-05	5.689E-05	800
114.0	25.2	10908	7.737E-06	2.012E-05	800
114.0	29.4	11007	7.807E-06	2.030E-05	800
114.0	33.6	8934	6.337E-06	1.644E-05	800
114.0	37.8	3825	2.713E-06	7.055E-06	800
E 114.0	42.0	66	4.717E-08	1.227E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
122.0	1.0	5	3.684E-09	9.580E-09	800
122.0	2.1	167	1.191E-07	3.097E-07	800
122.0	4.2	244	1.732E-07	4.502E-07	800
122.0	6.3	161	1.142E-07	2.970E-07	800
122.0	8.4	93	6.832E-08	1.724E-07	800
122.0	10.5	34	2.456E-08	6.386E-08	800
122.0	12.6	131	9.334E-08	2.427E-07	800
122.0	14.7	45	3.193E-08	8.302E-08	800
122.0	16.8	79	5.650E-08	1.469E-07	800
122.0	21.0	57	4.053E-08	1.054E-07	800
122.0	25.2	62	4.465E-08	1.161E-07	800
122.0	29.4	49	3.538E-08	9.199E-08	800
122.0	33.6	4	3.370E-09	8.761E-09	800
122.0	37.8	16	1.179E-08	3.066E-08	800
122.0	42.0	10	7.582E-09	1.971E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
130.0	1.0	0	0.000E+00	0.000E+00	800
130.0	2.1	0	0.000E+00	0.000E+00	800
130.0	4.2	98	7.000E-08	1.820E-07	800
130.0	6.3	64	4.548E-08	1.181E-07	800
130.0	8.4	25	1.842E-08	4.790E-08	800
130.0	10.5	25	1.842E-08	4.790E-08	800
130.0	12.6	41	2.948E-08	7.664E-08	800
130.0	14.7	74	5.281E-08	1.373E-07	800
130.0	16.8	53	3.807E-08	9.899E-08	800
130.0	21.0	46	3.316E-08	8.622E-08	800
130.0	25.2	34	2.443E-08	6.352E-08	800
130.0	29.4	36	2.611E-08	6.790E-08	800
130.0	33.6	0	0.000E+00	0.000E+00	800
130.0	37.8	3	2.527E-09	6.571E-09	800
130.0	42.0	4	3.370E-09	8.761E-09	800

TEST F157 AUGUST 9, 1961 0459 TO 0529 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM=SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
103.0	162	1.154E-07	3.000E-07	1600	
104.0	546	3.879E-07	1.008E-06	1600	
105.0	1670	1.184E-06	3.079E-06	1600	
106.0	4149	2.943E-06	7.652E-06	1600	
107.0	9645	6.841E-06	1.779E-05	1600	
108.0	20593	1.461E-05	3.797E-05	1600	
109.0	35917	2.547E-05	6.623E-05	1600	
110.0	41095	2.915E-05	7.578E-05	1600	
111.0	44310	3.143E-05	8.171E-05	1600	
112.0	30229	2.144E-05	5.574E-05	1600	
113.0	14365	1.019E-05	2.649E-05	1600	
114.0	2367	1.679E-06	4.366E-06	1600	
115.0	1891	1.342E-06	3.488E-06	1600	
116.0	546	3.879E-07	1.008E-06	1600	
117.0	199	1.418E-07	3.687E-07	1600	
118.0	84	5.978E-08	1.554E-07	1600	
119.0	37	2.641E-08	6.867E-08	1600	

CROSSWIND INTEGRATED= 4.116E-03 SEC/SQ.M 1.070E-02 1/M

TOWER DATA FOLLOW....

TEST F157 AUGUST 9, 1961 0459 TO 0529 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC U= 2.6 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM=SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
106.0	1.5	2220	1.575E-06	4.094E-06	1600
106.0	3.1	2401	1.703E-06	4.429E-06	1600
106.0	6.2	542	3.846E-07	9.998E-07	1600
106.0	9.3	2411	1.710E-06	4.447E-06	1600
106.0	12.4	2102	1.491E-06	3.877E-06	1600
106.0	15.5	1618	1.148E-06	2.988E-06	1600
106.0	18.6	583	4.141E-07	1.077E-06	1600
106.0	21.7	1339	9.501E-07	2.470E-06	1600
106.0	24.8	955	6.780E-07	1.763E-06	1600
106.0	31.0	550	3.904E-07	1.015E-06	1600
106.0	37.2	164	1.163E-07	3.025E-07	1600
106.0	43.4	73	5.210E-08	1.355E-07	1600
106.0	49.6	28	2.047E-08	5.323E-08	1600
106.0	55.8	12	9.100E-09	2.366E-08	1600
106.0	62.0	5	4.095E-09	1.065E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM=SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
114.0	1.5	4165	2.950E-06	7.682E-06	1600
114.0	3.1	4215	2.990E-06	7.774E-06	1600
114.0	6.2	5820	4.128E-06	1.073E-05	1600
114.0	9.3	1586	1.125E-06	2.925E-06	1600
114.0	12.4	6397	4.537E-06	1.180E-05	1600
114.0	15.5	7725	5.479E-06	1.425E-05	1600
114.0	18.6	3124	2.216E-06	5.761E-06	1600
114.0	21.7	3285	2.330E-06	6.058E-06	1600
114.0	24.8	5609	3.978E-06	1.034E-05	1600
114.0	31.0	3751	2.661E-06	6.918E-06	1600
114.0	37.2	4489	3.184E-06	8.278E-06	1600
114.0	43.4	4400	3.121E-06	8.114E-06	1600
114.0	49.6	2095	1.422E-06	3.698E-06	1600
114.0	55.8	901	6.675E-07	1.735E-06	1600
114.0	62.0	517	3.667E-07	9.535E-07	1600

AZIMUTH HEIGHT EXPOSURE E/O EU/O DISTANCE
DEGREES METERS GM=SEC/CU.M SEC/CU.M 1/SQ.M METERS
X10E+6

122.0	1.5	0	0.000E+00	0.000E+00	1600
122.0	3.1	18	1.279E-08	3.324E-08	1600
122.0	6.2	42	3.049E-08	7.927E-08	1600
122.0	9.3	26	1.869E-08	4.859E-08	1600
122.0	12.4	47	3.344E-08	8.694E-08	1600
122.0	15.5	20	1.475E-08	3.836E-08	1600
122.0	18.6	92	6.589E-08	1.713E-07	1600
122.0	21.7	66	4.721E-08	1.227E-07	1600
122.0	24.8	53	3.783E-08	9.835E-08	1600
122.0	31.0	28	1.999E-08	5.196E-08	1600
122.0	37.2	36	2.569E-08	6.680E-08	1600
122.0	43.4	5	3.568E-09	9.278E-09	1600
122.0	49.6	5	3.640E-09	9.468E-09	1600
122.0	55.8	10	7.280E-09	1.893E-08	1600
122.0	62.0	3	2.275E-09	5.915E-09	1600

TEST F157 AUGUST 9, 1961 0459 TO 0529 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM=SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
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101.0	0	0.000E+00	0.000E+00	3200	
102.0	37	2.685E-08	6.982E-08	3200	
103.0	88	6.246E-08	1.629E-07	3200	
104.0	300	2.135E-07	5.550E-07	3200	
105.0	482	3.422E-07	8.898E-07	3200	
106.0	1514	1.074E-06	2.793E-06	3200	
107.0	3623	2.570E-06	6.681E-06	3200	
108.0	5293	3.754E-06	9.761E-06	3200	
109.0	8018	5.687E-06	1.479E-05	3200	
110.0	8411	5.966E-06	1.551E-05	3200	
111.0	7824	5.549E-06	1.443E-05	3200	
112.0	5165	3.663E-06	9.524E-06	3200	
113.0	1815	1.288E-06	3.348E-06	3200	
114.0	267	1.900E-07	4.941E-07	3200	
115.0	90	6.404E-08	1.665E-07	3200	
116.0	0	0.000E+00	0.000E+00	3200	
117.0	0	0.000E+00	0.000E+00	3200	
118.0	0	0.000E+00	0.000E+00	3200	
119.0	0	0.000E+00	0.000E+00	3200	
120.0	1	1.377E-09	3.581E-09	3200	

CROSSWIND INTEGRATED= 1.701E-03 SEC/SQ.M 4.422E-03 1/M

TOWER DATA FOLLOW....

TEST F157 AUGUST 9, 1961 0459 TO 0529 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC U= 2.6 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM=SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
106.0	1.5	1158	8.218E-07	2.137E-06	3200
106.0	3.1	1661	1.178E-06	3.063E-06	3200
106.0	6.2	1715	1.217E-06	3.164E-06	3200
106.0	9.3	1769	1.255E-06	3.263E-06	3200
106.0	12.4	491	3.488E-07	9.068E-07	3200
106.0	15.5	1568	1.113E-06	2.893E-06	3200
106.0	18.6	1340	9.508E-07	2.472E-06	3200
106.0	21.7	1352	9.595E-07	2.495E-06	3200
106.0	24.8	767	5.446E-07	1.416E-06	3200
106.0	31.0	181	1.287E-07	3.387E-07	3200
106.0	37.2	272	1.933E-07	5.027E-07	3200
106.0	43.4	22	1.579E-08	4.106E-08	3200
106.0	49.6	17	1.225E-08	3.184E-08	3200
106.0	55.8	51	3.674E-08	9.553E-08	3200
106.0	62.0	3	2.161E-09	5.620E-09	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM,M X10E+6	E/Q SEC/CM,M	EU/Q 1/SQ,M	DISTANCE METERS
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114.0	1.5	412	2.925E-07	7.605E-07	3200
114.0	3.1	557	3.957E-07	1.029E-06	3200
114.0	6.2	480	3.406E-07	8.855E-07	3200
114.0	9.3	920	6.553E-07	1.704E-06	3200
114.0	12.4	1167	8.282E-07	2.153E-06	3200
114.0	15.5	1332	9.449E-07	2.457E-06	3200
114.0	18.6	1317	9.303E-07	2.429E-06	3200
114.0	21.7	400	2.837E-07	7.376E-07	3200
114.0	24.8	833	5.915E-07	1.538E-06	3200
114.0	31.0	223	1.584E-07	4.118E-07	3200
114.0	37.2	2236	1.586E-06	4.123E-06	3200
114.0	43.4	2782	1.945E-06	5.058E-06	3200
114.0	49.6	1897	1.346E-06	3.499E-06	3200
114.0	55.8	1036	7.349E-07	1.911E-06	3200
114.0	62.0	1060	7.522E-07	1.954E-06	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM,M X10E+6	E/Q SEC/CM,M	EU/Q 1/SQ,M	DISTANCE METERS
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122.0	1.5	2	1.758E-09	4.572E-09	3200
122.0	3.1	2	1.758E-09	4.572E-09	3200
122.0	6.2	10	7.620E-09	1.981E-08	3200
122.0	9.3	1	1.172E-09	3.046E-09	3200
122.0	12.4	14	1.055E-08	2.743E-08	3200
122.0	15.5	12	8.792E-09	2.286E-08	3200
122.0	18.6	4	2.931E-09	7.620E-09	3200
122.0	21.7	13	9.379E-09	2.438E-08	3200
122.0	24.8	14	1.053E-08	2.737E-08	3200
122.0	31.0	2	1.436E-09	3.733E-09	3200
122.0	37.2	1	9.571E-10	2.488E-09	3200
122.0	43.4	11	8.135E-09	2.115E-08	3200
122.0	49.6	4	2.882E-09	7.493E-09	3200
122.0	55.8	8	6.124E-09	1.592E-08	3200
122.0	62.0	13	9.726E-09	2.529E-08	3200

30-SERIES EXPERIMENT: 58 (FT-58)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS. MANY TOWER
FILTERS WERE RUPTURED.

TEST FT58 DECEMBER 5, 1961 0953 TO 1008 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 1.0 M/SEC AT 2M

TOWER DATA FOLLOW....

TEST FT58 DECEMBER 5, 1961 0953 TO 1008 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 1.0 M/SEC AT 2M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE
DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS
X10E+6

68.0	373	5.145E-07	5.145E-07	200
70.0	413	5.701E-07	5.701E-07	200
72.0	1012	1.395E-06	1.395E-06	200
74.0	178	2.457E-07	2.457E-07	200
76.0	144	1.993E-07	1.993E-07	200
78.0	417	5.748E-07	5.748E-07	200
80.0	821	1.131E-06	1.131E-06	200
82.0	2270	3.138E-06	3.138E-06	200
84.0	2126	2.930E-06	2.930E-06	200
86.0	3816	5.256E-06	5.256E-06	200
88.0	3718	5.122E-06	5.122E-06	200
90.0	3893	5.363E-06	5.363E-06	200
92.0	3937	5.423E-06	5.423E-06	200
94.0	2163	2.941E-06	2.941E-06	200
96.0	275	3.401E-07	3.401E-07	200
T 98.0	53	7.417E-08	7.417E-08	200
100.0	259	3.569E-07	3.569E-07	200
102.0	228	3.152E-07	3.152E-07	200
104.0	201	2.781E-07	2.781E-07	200
106.0	127	1.761E-07	1.761E-07	200
108.0	191	2.642E-07	2.642E-07	200
T 108.0	3	4.635E-09	4.635E-09	200
110.0	723	9.966E-07	9.966E-07	200
112.0	245	3.384E-07	3.384E-07	200
T 114.0	60	8.344E-08	8.344E-08	200
116.0	249	3.430E-07	3.430E-07	200
118.0	171	2.364E-07	2.364E-07	200
T 118.0	20	2.781E-08	2.781E-08	200
120.0	215	2.967E-07	2.967E-07	200
122.0	403	5.562E-07	5.562E-07	200
124.0	154	2.132E-07	2.132E-07	200
126.0	141	1.947E-07	1.947E-07	200
128.0	296	4.079E-07	4.079E-07	200
T 128.0	0	0.000E+00	0.000E+00	200
T 130.0	6	9.271E-09	9.271E-09	200
132.0	238	3.291E-07	3.291E-07	200
134.0	299	4.125E-07	4.125E-07	200
136.0	100	1.391E-07	1.391E-07	200
136.0	50	6.953E-08	6.953E-08	200
136.0	26	3.708E-08	3.708E-08	200
138.0	90	1.252E-07	1.252E-07	200
T 138.0	16	2.318E-08	2.318E-08	200
140.0	74	1.020E-07	1.020E-07	200
142.0	57	7.880E-08	7.880E-08	200
144.0	70	9.734E-08	9.734E-08	200
146.0	174	2.410E-07	2.410E-07	200
148.0	178	2.457E-07	2.457E-07	200
150.0	2025	2.790E-06	2.790E-06	200
152.0	3678	5.066E-06	5.066E-06	200
154.0	45400	6.254E-05	6.254E-05	200
156.0	88159	1.214E-04	1.214E-04	200
158.0	122030	1.681E-04	1.681E-04	200

CROSSWIND INTEGRATED# 2.803E-03 2.803E-03
SEC/SQ.M 1/M

AZIMUTH HEIGHT EXPOSURE E/Q EU/Q DISTANCE
DEGREES METERS GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS
X10E+6

98.0	0.3	395	5.451E-07	5.451E-07	200
98.0	0.7	236	3.261E-07	3.261E-07	200
98.0	1.4	183	2.522E-07	2.522E-07	200
98.0	2.7	0	0.000E+00	0.000E+00	200
T 98.0	4.1	610	8.407E-07	8.407E-07	200
98.0	5.4	308	4.248E-07	4.248E-07	200
98.0	6.8	369	5.088E-07	5.088E-07	200
98.0	8.1	6	8.849E-09	8.849E-09	200
98.0	9.4	0	0.000E+00	0.000E+00	200
98.0	10.8	0	0.000E+00	0.000E+00	200
98.0	13.5	19	2.655E-08	2.655E-08	200
98.0	16.2	3	4.425E-09	4.425E-09	200
98.0	18.9	0	0.000E+00	0.000E+00	200
98.0	21.6	0	0.000E+00	0.000E+00	200
98.0	24.3	0	0.000E+00	0.000E+00	200
98.0	27.0	0	0.000E+00	0.000E+00	200

AZIMUTH HEIGHT EXPOSURE E/Q EU/Q DISTANCE
DEGREES METERS GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS
X10E+6

106.0	0.3	254	3.504E-07	3.504E-07	200
106.0	0.7	293	4.040E-07	4.040E-07	200
106.0	1.4	344	5.354E-07	5.354E-07	200
106.0	2.7	0	0.000E+00	0.000E+00	200
106.0	4.1	0	0.000E+00	0.000E+00	200
106.0	5.4	221	3.053E-07	3.053E-07	200
106.0	6.8	221	3.053E-07	3.053E-07	200
106.0	8.1	9	1.327E-08	1.327E-08	200
106.0	9.4	9	1.327E-08	1.327E-08	200
106.0	10.8	0	0.000E+00	0.000E+00	200
106.0	13.5	0	0.000E+00	0.000E+00	200
106.0	16.2	6	8.849E-09	8.849E-09	200
106.0	18.9	0	0.000E+00	0.000E+00	200
106.0	21.6	0	0.000E+00	0.000E+00	200
106.0	24.3	0	0.000E+00	0.000E+00	200
106.0	27.0	0	0.000E+00	0.000E+00	200

AZIMUTH HEIGHT EXPOSURE E/Q EU/Q DISTANCE
DEGREES METERS GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS
X10E+6

114.0	0.3	515	7.106E-07	7.106E-07	200
114.0	0.7	402	5.549E-07	5.549E-07	200
114.0	1.4	844	1.164E-06	1.164E-06	200
114.0	2.7	67	9.292E-08	9.292E-08	200
114.0	4.1	0	0.000E+00	0.000E+00	200
114.0	5.4	67	9.292E-08	9.292E-08	200
114.0	6.8	12	1.770E-08	1.770E-08	200
114.0	8.1	0	0.000E+00	0.000E+00	200
114.0	9.4	0	0.000E+00	0.000E+00	200
114.0	10.8	0	0.000E+00	0.000E+00	200
114.0	13.5	0	0.000E+00	0.000E+00	200
114.0	16.2	0	0.000E+00	0.000E+00	200
114.0	18.9	0	0.000E+00	0.000E+00	200
114.0	21.6	0	0.000E+00	0.000E+00	200
114.0	24.3	0	0.000E+00	0.000E+00	200
114.0	27.0	19	2.726E-08	2.726E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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122.0	0.3	159	2.190E-07	2.190E-07	200
122.0	0.7	201	2.774E-07	2.774E-07	200
122.0	1.4	340	4.690E-07	4.690E-07	200
122.0	2.7	372	5.133E-07	5.133E-07	200
122.0	4.1	0	0.000E+00	0.000E+00	200
122.0	5.4	32	4.425E-08	4.425E-08	200
122.0	6.8	16	2.212E-08	2.212E-08	200
122.0	8.1	35	4.867E-08	4.867E-08	200
122.0	9.4	9	1.327E-08	1.327E-08	200
122.0	10.8	25	3.540E-08	3.540E-08	200
122.0	13.5	6	8.849E-09	8.849E-09	200
122.0	16.2	0	0.000E+00	0.000E+00	200
122.0	18.9	22	3.097E-08	3.097E-08	200
122.0	21.6	3	4.425E-09	4.425E-09	200
122.0	24.3	5	7.787E-09	7.787E-09	200
122.0	27.0	0	0.000E+00	0.000E+00	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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130.0	0.3	190	2.628E-07	2.628E-07	200
130.0	0.7	141	1.947E-07	1.947E-07	200
130.0	1.4	199	2.743E-07	2.743E-07	200
130.0	2.7	124	1.770E-07	1.770E-07	200
130.0	4.1	44	6.195E-08	6.195E-08	200
130.0	5.4	64	8.849E-08	8.849E-08	200
130.0	6.8	9	1.327E-08	1.327E-08	200
130.0	8.1	12	1.770E-08	1.770E-08	200
130.0	9.4	12	1.770E-08	1.770E-08	200
130.0	10.8	0	0.000E+00	0.000E+00	200
130.0	13.5	0	0.000E+00	0.000E+00	200
130.0	16.2	0	0.000E+00	0.000E+00	200
130.0	18.9	6	8.849E-09	8.849E-09	200
130.0	21.6	12	1.770E-08	1.770E-08	200
130.0	24.3	0	0.000E+00	0.000E+00	200
130.0	27.0	0	0.000E+00	0.000E+00	200

TEST F758 DECEMBER 5, 1961 0953 TO 1008 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ARC SAMPLER HT 1.5M U= 1.0 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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70.0	68	9.416E-08	9.416E-08	800
72.0	35	4.932E-08	4.932E-08	800
74.0	48	6.726E-08	6.726E-08	800
76.0	159	2.197E-07	2.197E-07	800
78.0	406	5.605E-07	5.605E-07	800
80.0	426	5.874E-07	5.874E-07	800
82.0	185	2.556E-07	2.556E-07	800
84.0	45	6.277E-08	6.277E-08	800
86.0	16	2.242E-08	2.242E-08	800
88.0	42	5.429E-08	5.429E-08	800
90.0	29	4.035E-08	4.035E-08	800
92.0	9	1.345E-08	1.345E-08	800
94.0	45	6.277E-08	6.277E-08	800
96.0	9	1.345E-08	1.345E-08	800
98.0	9	1.345E-08	1.345E-08	800
100.0	84	1.166E-07	1.166E-07	800
102.0	22	3.139E-08	3.139E-08	800
104.0	6	8.968E-09	8.968E-09	800
106.0	9	1.345E-08	1.345E-08	800
108.0	16	2.242E-08	2.242E-08	800
I 108.0	3	4.484E-09	4.484E-09	800
110.0	0	0.000E+00	0.000E+00	800
112.0	68	9.416E-08	9.416E-08	800
114.0	9	1.345E-08	1.345E-08	800
116.0	29	4.035E-08	4.035E-08	800
118.0	3	4.484E-09	4.484E-09	800
I 118.0	3	4.484E-09	4.484E-09	800
120.0	45	6.277E-08	6.277E-08	800
R 122.0	9	1.345E-08	1.345E-08	800
124.0	68	9.416E-08	9.416E-08	800
126.0	133	1.838E-07	1.838E-07	800
128.0	84	1.166E-07	1.166E-07	800
I 128.0	13	1.794E-08	1.794E-08	800
130.0	45	6.277E-08	6.277E-08	800
132.0	136	1.838E-07	1.838E-07	800
134.0	91	1.255E-07	1.255E-07	800
136.0	78	1.076E-07	1.076E-07	800
Z 136.0	6	8.968E-09	8.968E-09	800
Z 136.0	45	6.277E-08	6.277E-08	800
138.0	55	7.623E-08	7.623E-08	800
I 138.0	0	0.000E+00	0.000E+00	800
140.0	45	6.277E-08	6.277E-08	800
142.0	58	8.071E-08	8.071E-08	800
144.0	26	3.587E-08	3.587E-08	800
146.0	39	5.381E-08	5.381E-08	800
148.0	12	4.484E-09	4.484E-09	800
150.0	39	5.381E-08	5.381E-08	800
152.0	94	1.300E-07	1.300E-07	800
154.0	61	8.519E-08	8.519E-08	800
156.0	52	7.174E-08	7.174E-08	800
158.0	234	3.228E-07	3.228E-07	800
R 160.0	403	5.560E-07	5.560E-07	800

CROSSWIND INTEGRATED= 1.362E-04 1.362E-04
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST F158 DECEMBER 5, 1961 0953 TC 1008 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ARC U= 1.0 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.3	3	4.708E-09	4.708E-09	800
98.0	0.5	0	0.000E+00	0.000E+00	800
98.0	1.0	31	4.280E-08	4.280E-08	800
98.0	2.1	46	6.420E-08	6.420E-08	800
98.0	4.2	46	6.420E-08	6.420E-08	800
98.0	6.3	18	2.568E-08	2.568E-08	800
98.0	8.4	0	0.000E+00	0.000E+00	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.3	41	5.650E-08	5.650E-08	800
106.0	0.5	23	3.296E-08	3.296E-08	800
106.0	1.0	12	1.712E-08	1.712E-08	800
106.0	2.1	15	2.140E-08	2.140E-08	800
106.0	4.2	18	2.568E-08	2.568E-08	800
106.0	6.3	15	2.140E-08	2.140E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.3	51	7.062E-08	7.062E-08	800
114.0	0.5	23	3.296E-08	3.296E-08	800
114.0	1.0	49	6.848E-08	6.848E-08	800
114.0	2.1	59	8.132E-08	8.132E-08	800
114.0	4.2	46	6.420E-08	6.420E-08	800
114.0	6.3	0	0.000E+00	0.000E+00	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
122.0	0.3	51	7.062E-08	7.062E-08	800
122.0	0.5	10	1.412E-08	1.412E-08	800
122.0	1.0	40	5.564E-08	5.564E-08	800
122.0	2.1	12	1.712E-08	1.712E-08	800
122.0	4.2	31	4.280E-08	4.280E-08	800
122.0	6.3	3	4.280E-09	4.280E-09	800
122.0	8.4	0	0.000E+00	0.000E+00	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
130.0	0.3	37	5.179E-08	5.179E-08	800
130.0	0.5	34	4.708E-08	4.708E-08	800
130.0	1.0	21	2.996E-08	2.996E-08	800
130.0	2.1	55	7.704E-08	7.704E-08	800
130.0	4.2	34	4.708E-08	4.708E-08	800
130.0	6.3	49	6.848E-08	6.848E-08	800

TEST F158 DECEMBER 5, 1961 0953 TO 1000 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 1.0 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EL/O 1/SQ.M	DISTANCE METERS
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70.0	17	2.366E-08	2.366E-08	1600
71.0	57	7.984E-08	7.984E-08	1600
72.0	42	5.914E-08	5.914E-08	1600
73.0	25	3.548E-08	3.548E-08	1600
74.0	15	2.070E-08	2.070E-08	1600
75.0	66	9.167E-08	9.167E-08	1600
76.0	27	3.844E-08	3.844E-08	1600
77.0	47	6.505E-08	6.505E-08	1600
78.0	17	2.366E-08	2.366E-08	1600
79.0	25	3.548E-08	3.548E-08	1600
80.0	77	1.065E-07	1.065E-07	1600
81.0	21	2.957E-08	2.957E-08	1600
82.0	17	2.366E-08	2.366E-08	1600
83.0	0	0.000E+00	0.000E+00	1600
84.0	42	5.914E-08	5.914E-08	1600
85.0	0	0.000E+00	0.000E+00	1600
86.0	0	0.000E+00	0.000E+00	1600
87.0	0	0.000E+00	0.000E+00	1600
88.0	8	1.183E-08	1.183E-08	1600
89.0	23	3.253E-08	3.253E-08	1600
T 90.0	21	2.957E-08	2.957E-08	1600
91.0	6	8.871E-09	8.871E-09	1600
92.0	12	1.774E-08	1.774E-08	1600
93.0	51	7.097E-08	7.097E-08	1600
T 94.0	0	0.000E+00	0.000E+00	1600
95.0	98	1.360E-07	1.360E-07	1600
96.0	4	5.914E-09	5.914E-09	1600
97.0	4	5.914E-09	5.914E-09	1600
98.0	2	2.957E-09	2.957E-09	1600
99.0	21	2.957E-08	2.957E-08	1600
100.0	6	8.871E-09	8.871E-09	1600
101.0	6	8.871E-09	8.871E-09	1600
102.0	2	2.957E-09	2.957E-09	1600
103.0	32	4.436E-08	4.436E-08	1600
T 104.0	27	3.844E-08	3.844E-08	1600
105.0	2	2.957E-09	2.957E-09	1600
106.0	23	3.253E-08	3.253E-08	1600
107.0	8	1.183E-08	1.183E-08	1600
108.0	30	4.140E-08	4.140E-08	1600
T 108.0	90	1.242E-07	1.242E-07	1600
109.0	2	2.957E-09	2.957E-09	1600
110.0	36	5.027E-08	5.027E-08	1600
111.0	139	1.922E-07	1.922E-07	1600
112.0	141	1.952E-07	1.952E-07	1600
113.0	68	9.462E-08	9.462E-08	1600
114.0	83	1.153E-07	1.153E-07	1600
115.0	139	1.922E-07	1.922E-07	1600
116.0	154	2.129E-07	2.129E-07	1600
117.0	231	3.194E-07	3.194E-07	1600
118.0	62	8.575E-08	8.575E-08	1600
T 118.0	214	2.957E-07	2.957E-07	1600
119.0	227	3.134E-07	3.134E-07	1600
120.0	296	4.081E-07	4.081E-07	1600
121.0	287	3.962E-07	3.962E-07	1600
122.0	272	3.755E-07	3.755E-07	1600
123.0	373	5.145E-07	5.145E-07	1600
124.0	410	5.648E-07	5.648E-07	1600
125.0	510	7.038E-07	7.038E-07	1600
126.0	448	6.180E-07	6.180E-07	1600
Z 126.0	158	2.188E-07	2.188E-07	1600
Z 126.0	296	4.081E-07	4.081E-07	1600
127.0	427	5.884E-07	5.884E-07	1600
128.0	12	1.774E-08	1.774E-08	1600
T 128.0	27	3.844E-08	3.844E-08	1600
129.0	19	2.661E-08	2.661E-08	1600
130.0	34	4.731E-08	4.731E-08	1600
131.0	6	8.871E-09	8.871E-09	1600
132.0	12	1.774E-08	1.774E-08	1600
133.0	515	7.097E-07	7.097E-07	1600
134.0	841	1.159E-06	1.159E-06	1600
135.0	805	1.109E-06	1.109E-06	1600
136.0	55	7.688E-08	7.688E-08	1600
Z 136.0	253	3.489E-07	3.489E-07	1600
Z 136.0	699	9.640E-07	9.640E-07	1600

137.0	890	1.227E-06	1.227E-06	1600
138.0	1003	1.437E-06	1.437E-06	1600
T 138.0	53	7.393E-08	7.393E-08	1600
139.0	946	1.304E-06	1.304E-06	1600
140.0	953	1.313E-06	1.313E-06	1600
T 141.0	227	3.134E-07	3.134E-07	1600
142.0	1054	1.452E-06	1.452E-06	1600
143.0	1161	1.600E-06	1.600E-06	1600
144.0	1339	1.845E-06	1.845E-06	1600
145.0	1438	1.981E-06	1.981E-06	1600
146.0	1152	1.588E-06	1.588E-06	1600
147.0	1346	1.854E-06	1.854E-06	1600
148.0	1498	2.064E-06	2.064E-06	1600
149.0	1567	2.159E-06	2.159E-06	1600
150.0	1526	2.102E-06	2.102E-06	1600
151.0	1434	1.975E-06	1.975E-06	1600
152.0	1749	2.410E-06	2.410E-06	1600
153.0	1481	2.040E-06	2.040E-06	1600
154.0	1706	2.351E-06	2.351E-06	1600

CROSSWIND INTEGRATED= 1.150E-03 1.150E-03
SEC/30.M 1/M

TOWER DATA FOLLOW....

TEST F158 DECEMBER 5, 1961 0953 TO 1000 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M APC U= 1.0 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EL/O 1/SQ.M	DISTANCE METERS
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98.0	0.2	0	0.000E+00	0.000E+00	1600
98.0	0.4	20	2.794E-08	2.794E-08	1600
98.0	0.8	20	2.794E-08	2.794E-08	1600
98.0	1.5	8	1.183E-08	1.183E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EL/O 1/SQ.M	DISTANCE METERS
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106.0	0.2	24	3.415E-08	3.415E-08	1600
106.0	0.4	22	3.105E-08	3.105E-08	1600
106.0	0.8	31	4.347E-08	4.347E-08	1600
106.0	1.5	23	3.253E-08	3.253E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EL/O 1/SQ.M	DISTANCE METERS
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114.0	0.2	119	1.646E-07	1.646E-07	1600
114.0	0.4	169	2.329E-07	2.329E-07	1600
114.0	0.8	166	2.298E-07	2.298E-07	1600
114.0	1.5	66	9.167E-08	9.167E-08	1600
114.0	3.1	70	9.758E-08	9.758E-08	1600
114.0	6.2	57	7.984E-08	7.984E-08	1600
114.0	9.3	27	3.844E-08	3.844E-08	1600
114.0	12.4	130	1.804E-07	1.804E-07	1600
114.0	15.5	105	1.449E-07	1.449E-07	1600
114.0	18.6	55	7.688E-08	7.688E-08	1600
114.0	21.7	40	5.618E-08	5.618E-08	1600
114.0	24.8	17	2.430E-08	2.430E-08	1600
114.0	31.0	3	5.400E-09	5.400E-09	1600
Z 114.0	37.2	0	0.000E+00	0.000E+00	1600
114.0	43.4	11	1.620E-08	1.620E-08	1600
114.0	49.6	16	2.270E-08	2.270E-08	1600
114.0	55.8	9	1.261E-08	1.261E-08	1600
114.0	62.0	12	1.765E-08	1.765E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
8	122.0	0.2	180	2.484E-07	2.484E-07
	122.0	0.4	268	3.695E-07	3.695E-07
	122.0	0.8	281	3.881E-07	3.881E-07
	122.0	1.5	296	4.081E-07	4.081E-07

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
	130.0	0.2	49	6.831E-08	6.831E-08
	130.0	0.4	6	9.315E-09	9.315E-09
	130.0	0.8	9	6.210E-09	6.210E-09
	130.0	1.5	796	1.097E-06	1.097E-06

TEST F158 DECEMBER 5, 1961 0953 TO 1004 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 1.0 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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71.0	1	1.404E-09	1.404E-09	3200
72.0	5	7.021E-09	7.021E-09	3200
73.0	10	1.404E-08	1.404E-08	3200
74.0	20	2.808E-08	2.808E-08	3200
75.0	20	2.808E-08	2.808E-08	3200
76.0	35	4.915E-08	4.915E-08	3200
77.0	24	3.370E-08	3.370E-08	3200
78.0	32	4.493E-08	4.493E-08	3200
79.0	19	2.668E-08	2.668E-08	3200
80.0	23	3.230E-08	3.230E-08	3200
81.0	14	1.966E-08	1.966E-08	3200
82.0	21	2.949E-08	2.949E-08	3200
83.0	5	7.021E-09	7.021E-09	3200
84.0	14	1.966E-08	1.966E-08	3200
85.0	1	1.404E-09	1.404E-09	3200
86.0	3	4.212E-09	4.212E-09	3200
87.0	15	2.106E-08	2.106E-08	3200
88.0	12	1.685E-08	1.685E-08	3200
89.0	10	1.404E-08	1.404E-08	3200
90.0	0	0.000E+00	0.000E+00	3200
91.0	1	1.404E-09	1.404E-09	3200
92.0	17	2.387E-08	2.387E-08	3200
93.0	5	7.021E-09	7.021E-09	3200
94.0	6	8.425E-09	8.425E-09	3200
95.0	5	7.021E-09	7.021E-09	3200
96.0	5	7.021E-09	7.021E-09	3200
97.0	18	2.527E-08	2.527E-08	3200
98.0	11	1.545E-08	1.545E-08	3200
99.0	37	5.195E-08	5.195E-08	3200
100.0	30	4.212E-08	4.212E-08	3200
101.0	55	7.582E-08	7.582E-08	3200
102.0	50	7.021E-08	7.021E-08	3200
103.0	67	9.267E-08	9.267E-08	3200
104.0	100	1.390E-07	1.390E-07	3200
105.0	122	1.685E-07	1.685E-07	3200
106.0	99	1.376E-07	1.376E-07	3200
107.0	11	1.545E-08	1.545E-08	3200
108.0	6	8.425E-09	8.425E-09	3200
109.0	8	1.123E-08	1.123E-08	3200
110.0	2	2.808E-09	2.808E-09	3200
111.0	120	1.457E-07	1.457E-07	3200
112.0	214	2.949E-07	2.949E-07	3200
113.0	309	2.654E-07	2.654E-07	3200
114.0	374	5.153E-07	5.153E-07	3200
115.0	452	6.234E-07	6.234E-07	3200
116.0	59	6.144E-08	6.144E-08	3200
117.0	381	5.252E-07	5.252E-07	3200
118.0	436	6.010E-07	6.010E-07	3200
119.0	4	5.617E-09	5.617E-09	3200
	638	6.790E-07	6.790E-07	3200

120.0	548	7.554E-07	7.554E-07	3200
121.0	722	9.955E-07	9.955E-07	3200
122.0	437	6.024E-07	6.024E-07	3200
123.0	453	6.248E-07	6.248E-07	3200
124.0	546	7.526E-07	7.526E-07	3200
125.0	404	5.574E-07	5.574E-07	3200
126.0	450	6.206E-07	6.206E-07	3200
127.0	173	2.387E-07	2.387E-07	3200
128.0	291	4.016E-07	4.016E-07	3200
129.0	576	7.948E-07	7.948E-07	3200
130.0	586	8.074E-07	8.074E-07	3200
131.0	15	2.106E-08	2.106E-08	3200
132.0	514	7.091E-07	7.091E-07	3200
133.0	355	4.901E-07	4.901E-07	3200
134.0	649	8.944E-07	8.944E-07	3200
135.0	646	8.902E-07	8.902E-07	3200
136.0	418	5.771E-07	5.771E-07	3200
137.0	416	5.743E-07	5.743E-07	3200
138.0	490	6.754E-07	6.754E-07	3200
139.0	554	7.639E-07	7.639E-07	3200
140.0	282	3.890E-07	3.890E-07	3200
141.0	249	3.440E-07	3.440E-07	3200
142.0	38	5.336E-08	5.336E-08	3200
143.0	552	7.611E-07	7.611E-07	3200
144.0	3	4.212E-09	4.212E-09	3200
145.0	435	5.996E-07	5.996E-07	3200
146.0	482	6.642E-07	6.642E-07	3200
147.0	222	3.061E-07	3.061E-07	3200
148.0	396	5.462E-07	5.462E-07	3200
149.0	546	8.074E-07	8.074E-07	3200
150.0	504	6.951E-07	6.951E-07	3200
151.0	8	1.123E-08	1.123E-08	3200
152.0	6	8.425E-09	8.425E-09	3200
153.0	2	2.808E-09	2.808E-09	3200
154.0	379	5.223E-07	5.223E-07	3200
155.0	474	6.529E-07	6.529E-07	3200
156.0	57	7.863E-08	7.863E-08	3200
157.0	471	6.501E-07	6.501E-07	3200
158.0	432	5.954E-07	5.954E-07	3200
159.0	516	7.119E-07	7.119E-07	3200
160.0	530	7.302E-07	7.302E-07	3200
161.0	496	6.838E-07	6.838E-07	3200
	356	4.915E-07	4.915E-07	3200
	284	3.918E-07	3.918E-07	3200
	238	3.286E-07	3.286E-07	3200
	198	2.738E-07	2.738E-07	3200
	85	1.179E-07	1.179E-07	3200
	82	1.137E-07	1.137E-07	3200

CROSSWIND INTEGRATED= 1.518E-03 1.518E-03
SEC/SQ.M 1/M

TOWER DATA FOLLOW...

TEST F158 DECEMBER 5, 1961 0953 TO 1004 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC U= 1.0 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.2	7	9.829E-09	9.829E-09	3200
98.0	0.4	11	1.545E-08	1.545E-08	3200
98.0	0.8	0	0.000E+00	0.000E+00	3200
98.0	1.5	13	1.825E-08	1.825E-08	3200
98.0	3.1	15	2.106E-08	2.106E-08	3200
98.0	6.2	4	5.617E-09	5.617E-09	3200
98.0	9.3	4	5.617E-09	5.617E-09	3200
98.0	12.4	18	2.527E-08	2.527E-08	3200
98.0	15.5	9	1.264E-08	1.264E-08	3200
98.0	18.6	15	2.106E-08	2.106E-08	3200
98.0	21.7	8	1.123E-08	1.123E-08	3200
98.0	24.8	0	0.000E+00	0.000E+00	3200
98.0	31.0	0	1.337E-09	1.337E-09	3200
98.0	37.2	1	2.675E-09	2.675E-09	3200
98.0	43.4	1	2.675E-09	2.675E-09	3200
98.0	49.6	0	0.000E+00	0.000E+00	3200
98.0	55.8	0	0.000E+00	0.000E+00	3200
98.0	62.0	1	2.553E-09	2.553E-09	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
106.0	0.2	138	1.910E-07	1.910E-07	3200
106.0	0.4	88	1.222E-07	1.222E-07	3200
106.0	0.8	95	1.320E-07	1.320E-07	3200
106.0	1.5	113	1.559E-07	1.559E-07	3200
106.0	3.1	138	1.910E-07	1.910E-07	3200
106.0	6.2	145	2.008E-07	2.008E-07	3200
106.0	9.3	114	1.573E-07	1.573E-07	3200
106.0	12.4	120	1.657E-07	1.657E-07	3200
106.0	15.5	98	1.362E-07	1.362E-07	3200
106.0	18.6	103	1.432E-07	1.432E-07	3200
106.0	21.7	113	1.559E-07	1.559E-07	3200
106.0	24.8	15	2.140E-08	2.140E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
114.0	0.2	357	4.929E-07	4.929E-07	3200
114.0	0.4	362	4.999E-07	4.999E-07	3200
114.0	0.8	366	5.055E-07	5.055E-07	3200
114.0	1.5	380	5.238E-07	5.238E-07	3200
114.0	3.1	383	5.280E-07	5.280E-07	3200
114.0	6.2	445	6.136E-07	6.136E-07	3200
114.0	9.3	406	5.603E-07	5.603E-07	3200
114.0	12.4	408	5.631E-07	5.631E-07	3200
114.0	15.5	342	4.718E-07	4.718E-07	3200
114.0	18.6	376	5.181E-07	5.181E-07	3200
114.0	21.7	341	4.704E-07	4.704E-07	3200
114.0	24.8	293	4.039E-07	4.039E-07	3200
114.0	31.0	186	2.568E-07	2.568E-07	3200
114.0	37.2	81	1.123E-07	1.123E-07	3200
114.0	43.4	0	0.000E+00	0.000E+00	3200
114.0	49.6	1	2.553E-09	2.553E-09	3200
114.0	55.8	13	1.915E-08	1.915E-08	3200
114.0	62.0	0	1.277E-09	1.277E-09	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
122.0	0.2	524	7.231E-07	7.231E-07	3200
122.0	0.4	417	5.757E-07	5.757E-07	3200
122.0	0.8	603	8.313E-07	8.313E-07	3200
122.0	1.5	461	6.361E-07	6.361E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
130.0	0.2	506	6.979E-07	6.979E-07	3200
130.0	0.4	428	5.897E-07	5.897E-07	3200
130.0	0.8	605	8.341E-07	8.341E-07	3200
130.0	1.5	476	6.557E-07	6.557E-07	3200

30-SERIES EXPERIMENT: 59 (FT-59)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS

TOWER DATA FOLLOW....

TEST FT59 DECEMBER 13, 1961 1042 TO 1112 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/50.M	DISTANCE METERS
86.0	8	4.047E-09	1.133E-08	200
88.0	8	4.047E-09	1.133E-08	200
90.0	2	1.340E-09	3.777E-09	200
92.0	8	4.047E-09	1.133E-08	200
94.0	13	6.745E-09	1.889E-08	200
96.0	35	1.754E-08	4.910E-08	200
98.0	97	4.856E-08	1.360E-07	200
100.0	8	4.047E-09	1.133E-08	200
102.0	27	1.349E-08	3.777E-08	200
104.0	19	9.443E-09	2.644E-08	200
106.0	24	1.214E-08	3.399E-08	200
108.0	19	9.443E-09	2.644E-08	200
110.0	0	0.000E+00	0.000E+00	200
112.0	46	2.293E-08	6.421E-08	200
114.0	35	1.754E-08	4.910E-08	200
116.0	144	7.149E-08	2.002E-07	200
118.0	1019	5.058E-07	1.416E-06	200
120.0	9499	4.715E-06	1.320E-05	200
Q 122.0	15403	7.644E-06	2.140E-05	200
Q 124.0	49830	2.473E-05	6.924E-05	200
Q 126.0	139065	6.902E-05	1.932E-04	200
Q 128.0	217401	1.079E-04	3.021E-04	200
Q 130.0	171144	8.444E-05	2.378E-04	200
Q 132.0	186501	9.256E-05	2.592E-04	200
Q 134.0	182571	9.061E-05	2.537E-04	200
136.0	287210	1.425E-04	3.991E-04	200
138.0	258822	1.288E-04	3.597E-04	200
140.0	251445	1.248E-04	3.494E-04	200
142.0	257721	1.279E-04	3.561E-04	200
144.0	229061	1.137E-04	3.183E-04	200
146.0	224438	1.114E-04	3.119E-04	200
148.0	175863	8.728E-05	2.444E-04	200
150.0	206887	1.027E-04	2.875E-04	200
152.0	99927	4.959E-05	1.389E-04	200
154.0	53231	2.642E-05	7.397E-05	200
156.0	25569	1.269E-05	3.553E-05	200
158.0	4887	2.425E-06	6.791E-06	200
CROSSWIND INTEGRATED*	1.056E-02 SEC/50.M	2.957E-02 1/M		

TEST FT59 DECEMBER 13, 1961 1042 TO 1112 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 2.6 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/50.M	DISTANCE METERS
114.0	0.3	35	1.754E-08	4.910E-08	200
114.0	0.7	51	2.551E-08	7.142E-08	200
114.0	1.4	37	1.847E-08	5.171E-08	200
114.0	2.7	41	2.064E-08	5.779E-08	200
114.0	4.1	28	1.412E-08	3.954E-08	200
119.0	5.4	0	0.000E+00	0.000E+00	200
114.0	6.8	21	1.086E-08	3.042E-08	200
114.0	8.1	2	1.086E-09	3.042E-09	200
114.0	9.4	17	8.690E-09	2.433E-08	200
114.0	10.8	10	5.432E-09	1.521E-08	200
114.0	13.5	2	1.086E-09	3.042E-09	200
114.0	16.2	6	3.259E-09	9.125E-09	200
114.0	18.9	4	2.173E-09	6.083E-09	200
114.0	21.6	10	5.432E-09	1.521E-08	200
114.0	24.3	0	0.000E+00	0.000E+00	200
114.0	27.0	10	5.297E-09	1.483E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/50.M	DISTANCE METERS
Q 122.0	0.3	7943	3.942E-06	1.104E-05	200
Q 122.0	0.7	9569	4.749E-06	1.330E-05	200
Q 122.0	1.4	1632	8.104E-07	2.269E-06	200
Q 122.0	2.7	3071	1.520E-06	4.267E-06	200
M 122.0	4.1	356	1.771E-07	4.958E-07	200
Q 122.0	5.4	7348	3.647E-06	1.021E-05	200
Q 122.0	6.8	20799	1.032E-05	2.890E-05	200
Q 122.0	8.1	7586	3.765E-06	1.054E-05	200
Q 122.0	9.4	17397	5.634E-06	2.418E-05	200
Q 122.0	10.8	9066	4.499E-06	1.260E-05	200
Q 122.0	13.5	7856	3.899E-06	1.092E-05	200
Q 122.0	16.2	5045	2.504E-06	7.011E-06	200
Q 122.0	18.9	11327	5.622E-06	1.574E-05	200
Q 122.0	21.6	5918	2.937E-06	8.225E-06	200
Q 122.0	24.3	14233	7.064E-06	1.975E-05	200
Q 122.0	27.0	14777	7.334E-06	2.053E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/50.M	DISTANCE METERS
130.0	0.3	98219	4.874E-05	1.365E-04	200
130.0	0.7	156965	7.790E-05	2.181E-04	200
130.0	1.4	112054	5.561E-05	1.557E-04	200
130.0	2.7	133766	6.639E-05	1.859E-04	200
130.0	4.1	207830	1.031E-04	2.888E-04	200
130.0	5.4	179217	8.894E-05	2.490E-04	200
130.0	6.8	186598	9.260E-05	2.593E-04	200
130.0	8.1	228492	1.118E-04	3.119E-04	200
130.0	9.4	89119	4.423E-05	1.238E-04	200
130.0	10.8	222463	1.104E-04	3.091E-04	200
130.0	13.5	162872	8.083E-05	2.263E-04	200
130.0	16.2	199930	9.922E-05	2.778E-04	200
130.0	18.9	150524	7.470E-05	2.092E-04	200
130.0	21.6	108758	5.397E-05	1.511E-04	200
130.0	24.3	82025	4.071E-05	1.140E-04	200
130.0	27.0	78266	3.884E-05	1.088E-04	200

1ST F159 DECEMBER 13, 1961 1042 TO 1112 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 2.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
108.0	18	9.134E-09	2.557E-08	800
110.0	0	0.000E+00	0.000E+00	800
112.0	2	1.305E-09	3.654E-09	800
114.0	0	0.000E+00	0.000E+00	800
116.0	15	7.829E-09	2.192E-08	800
118.0	0	0.000E+00	0.000E+00	800
120.0	49	2.479E-08	6.942E-08	800
122.0	68	3.393E-08	9.499E-08	800
124.0	36	1.827E-08	5.115E-08	800
126.0	115	5.741E-08	1.608E-07	800
128.0	404	2.009E-07	5.626E-07	800
130.0	2229	1.107E-06	3.098E-06	800
132.0	4979	2.471E-06	6.920E-06	800
134.0	5466	2.713E-06	7.596E-06	800
136.0	6870	3.410E-06	9.547E-06	800
138.0	6596	3.274E-06	9.167E-06	800
140.0	8284	4.112E-06	1.151E-05	800
142.0	7677	3.810E-06	1.067E-05	800
144.0	5782	2.850E-06	7.979E-06	800
146.0	2426	1.204E-06	3.372E-06	800
148.0	1964	9.747E-07	2.729E-06	800
150.0	1561	7.751E-07	2.170E-06	800
152.0	276	1.370E-07	3.836E-07	800
154.0	0	0.000E+00	0.000E+00	800
156.0	0	0.000E+00	0.000E+00	800
158.0	0	0.000E+00	0.000E+00	800
160.0	10	5.219E-09	1.461E-08	800

CROSSWIND INTEGRATED= 7.594E-04 SEC/SQ.M
2.126E-03 1/M

TOWER DATA FOLLOW....

TEST F159 DECEMBER 13, 1961 1042 TO 1112 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC U= 2.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
114.0	0.3	12	6.16E-09	1.727E-08	800
114.0	0.5	21	1.079E-08	3.022E-08	800
114.0	1.0	16	8.406E-09	2.354E-08	800
114.0	2.1	6	3.152E-09	8.827E-09	800
114.0	4.2	8	4.203E-09	1.177E-08	800
114.0	6.3	16	8.406E-09	2.354E-08	800
114.0	8.4	0	0.000E+00	0.000E+00	800
114.0	10.5	0	0.000E+00	0.000E+00	800
114.0	12.6	10	5.254E-09	1.471E-08	800
114.0	14.7	0	0.000E+00	0.000E+00	800
114.0	16.8	0	0.000E+00	0.000E+00	800
114.0	21.0	2	1.051E-09	2.942E-09	800
114.0	25.2	6	3.074E-09	8.608E-09	800
114.0	29.4	0	0.000E+00	0.000E+00	800
114.0	33.6	0	0.000E+00	0.000E+00	800
114.0	37.8	0	0.000E+00	0.000E+00	800
114.0	42.0	0	0.000E+00	0.000E+00	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
122.0	0.3	34	1.696E-08	4.750E-08	800
122.0	0.5	83	4.164E-08	1.166E-07	800
122.0	1.0	4	2.102E-09	5.985E-09	800
122.0	2.1	27	1.366E-08	3.825E-08	800
122.0	4.2	76	3.783E-08	1.059E-07	800
122.0	6.3	14	7.356E-09	2.067E-08	800
122.0	8.4	12	6.305E-09	1.765E-08	800
122.0	10.5	0	0.000E+00	0.000E+00	800
122.0	12.6	21	1.051E-08	2.942E-08	800
122.0	14.7	2	1.051E-09	2.942E-09	800
122.0	16.8	0	0.000E+00	0.000E+00	800
122.0	21.0	6	3.152E-09	8.827E-09	800
122.0	25.2	8	4.099E-09	1.148E-08	800
122.0	29.4	4	2.049E-09	5.738E-09	800
122.0	33.6	8	4.099E-09	1.148E-08	800
122.0	37.8	14	7.173E-09	2.008E-08	800
122.0	42.0	0	0.000E+00	0.000E+00	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
130.0	0.3	1889	9.376E-07	2.625E-06	800
130.0	0.5	1326	6.585E-07	1.844E-06	800
130.0	1.0	671	3.331E-07	9.327E-07	800
130.0	2.1	736	3.657E-07	1.024E-06	800
130.0	4.2	838	4.161E-07	1.165E-06	800
130.0	6.3	412	2.049E-07	5.737E-07	800
130.0	8.4	186	9.247E-08	2.589E-07	800
130.0	10.5	110	5.464E-08	1.530E-07	800
130.0	12.6	410	2.039E-07	5.708E-07	800
130.0	14.7	311	1.545E-07	4.325E-07	800
130.0	16.8	283	1.408E-07	3.943E-07	800
130.0	21.0	692	3.436E-07	9.621E-07	800
130.0	25.2	282	1.404E-07	3.931E-07	800
130.0	29.4	398	1.978E-07	5.538E-07	800
130.0	33.6	489	2.429E-07	6.800E-07	800
130.0	37.8	435	2.162E-07	6.054E-07	800
130.0	42.0	97	4.816E-08	1.349E-07	800

TEST F159 DECEMBER 13, 1961 1042 TO 1112 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 2.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
126.0	35	1.751E-08	4.903E-08	1600
127.0	47	2.335E-08	6.537E-08	1600
128.0	50	2.529E-08	7.082E-08	1600
I 128.0	3	1.906E-09	5.447E-09	1600
129.0	45	2.277E-08	6.265E-08	1600
130.0	41	2.043E-08	5.720E-08	1600
131.0	145	7.108E-08	2.016E-07	1600
132.0	350	1.741E-07	4.876E-07	1600
133.0	480	2.343E-07	6.673E-07	1600
134.0	660	3.278E-07	9.179E-07	1600
135.0	664	3.298E-07	9.233E-07	1600
136.0	484	2.403E-07	6.728E-07	1600
137.0	707	3.512E-07	9.833E-07	1600
138.0	960	4.767E-07	1.335E-06	1600
I 138.0	43	2.140E-08	5.992E-08	1600
139.0	958	4.757E-07	1.332E-06	1600
140.0	1076	5.340E-07	1.495E-06	1600
141.0	1350	6.702E-07	1.877E-06	1600
142.0	1474	7.315E-07	2.048E-06	1600
143.0	974	4.835E-07	1.354E-06	1600
144.0	388	1.926E-07	5.393E-07	1600
145.0	331	1.640E-07	4.603E-07	1600
146.0	341	1.693E-07	4.739E-07	1600
147.0	196	9.728E-08	2.724E-07	1600
148.0	170	8.463E-08	2.370E-07	1600
149.0	147	7.296E-08	2.043E-07	1600
150.0	74	3.697E-08	1.035E-07	1600
151.0	0	0.000E+00	0.000E+00	1600
152.0	0	0.000E+00	0.000E+00	1600
153.0	17	8.755E-09	2.451E-08	1600
154.0	0	0.000E+00	0.000E+00	1600

CROSSWIND INTEGRATED= 1.591E-04 4.456E-04
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST F159 DECEMBER 13, 1961 1042 TO 1112 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC U= 2.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
130.0	0.2	66	3.303E-08	9.244E-08	1600
130.0	0.4	34	1.705E-08	4.773E-08	1600
130.0	0.8	79	3.942E-08	1.104E-07	1600
130.0	1.5	37	1.877E-08	5.259E-08	1600
130.0	3.1	54	2.695E-08	7.545E-08	1600
130.0	6.2	62	3.103E-08	8.688E-08	1600
Z 130.0	9.3	8	4.083E-09	1.143E-08	1600
130.0	12.4	24	1.225E-08	3.430E-08	1600
130.0	15.5	52	2.613E-08	7.317E-08	1600
130.0	18.6	49	2.450E-08	6.859E-08	1600
130.0	21.7	57	2.858E-08	8.002E-08	1600
130.0	24.8	17	8.792E-09	2.462E-08	1600
130.0	31.0	167	8.313E-08	2.328E-07	1600
130.0	37.2	178	8.872E-08	2.484E-07	1600
130.0	43.4	70	3.517E-08	9.847E-08	1600
130.0	49.6	199	9.879E-08	2.766E-07	1600
130.0	55.8	353	1.754E-07	4.911E-07	1600
130.0	62.0	138	6.893E-08	1.930E-07	1600

TEST F159 DECEMBER 13, 1961 1042 TO 1112 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 2.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
126.0	2	1.405E-09	4.047E-09	3200
127.0	10	5.300E-09	1.484E-08	3200
128.0	12	6.264E-09	1.754E-08	3200
I 128.0	1	9.636E-10	2.698E-09	3200
129.0	19	9.636E-09	2.698E-08	3200
130.0	141	7.015E-08	1.970E-07	3200
131.0	112	5.549E-08	1.565E-07	3200
132.0	180	8.962E-08	2.509E-07	3200
133.0	176	8.769E-08	2.455E-07	3200
134.0	211	1.050E-07	2.941E-07	3200
135.0	247	1.229E-07	3.440E-07	3200
136.0	362	1.797E-07	5.032E-07	3200
137.0	34	1.715E-08	4.857E-08	3200
138.0	203	1.012E-07	2.833E-07	3200
I 138.0	12	6.264E-09	1.754E-08	3200
139.0	273	1.359E-07	3.804E-07	3200
140.0	302	1.503E-07	4.209E-07	3200
141.0	258	1.242E-07	3.589E-07	3200
142.0	129	6.408E-08	1.794E-07	3200
143.0	154	7.661E-08	2.145E-07	3200
144.0	166	8.247E-08	2.320E-07	3200
C 145.0	145	7.227E-08	2.024E-07	3200
C 146.0	0	0.000E+00	0.000E+00	3200
C 147.0	0	4.814E-10	1.349E-09	3200
X 148.0	0	0.000E+00	0.000E+00	3200
X 149.0	1	9.636E-10	2.698E-09	3200
X 150.0	2	1.405E-09	4.047E-09	3200
151.0	0	0.000E+00	0.000E+00	3200
152.0	5	2.891E-09	8.095E-09	3200
153.0	1	9.636E-10	2.698E-09	3200

CROSSWIND INTEGRATED= 8.162E-05 2.285E-04
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST F159 DECEMBER 13, 1961 1042 TO 1112 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC U= 2.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
130.0	0.2	51	2.580E-08	7.224E-08	3200
130.0	0.4	10	5.059E-09	1.417E-08	3200
130.0	0.8	45	2.277E-08	6.375E-08	3200
130.0	1.5	20	1.012E-08	2.833E-08	3200
130.0	3.1	5	2.760E-09	7.727E-09	3200
130.0	6.2	41	2.070E-08	5.795E-08	3200
130.0	9.3	5	2.760E-09	7.727E-09	3200
130.0	12.4	4	2.300E-09	6.439E-09	3200
130.0	15.5	15	7.819E-09	2.189E-08	3200
130.0	18.6	14	7.359E-09	2.060E-08	3200
130.0	21.7	10	5.059E-09	1.417E-08	3200
130.0	24.8	2	1.380E-09	3.863E-09	3200
130.0	31.0	23	1.150E-08	3.219E-08	3200
130.0	37.2	20	1.012E-08	2.833E-08	3200
130.0	43.4	4	2.300E-09	6.439E-09	3200
130.0	49.6	3	1.755E-09	4.915E-09	3200
130.0	55.8	36	1.799E-08	5.038E-08	3200
130.0	62.0	8	4.389E-09	1.229E-08	3200

30-SERIES EXPERIMENT: 60 (FT-60)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS

TEST FT60 FEBRUARY 9, 1962 0949 TO 1020 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
96.0	2	1.341E-09	4.024E-09		200
98.0	0	0.000E+00	0.000E+00		200
100.0	2	1.341E-09	4.024E-09		200
102.0	0	0.000E+00	0.000E+00		200
104.0	7	4.024E-09	1.207E-08		200
106.0	274	1.408E-07	4.225E-07		200
108.0	3312	1.702E-06	5.106E-06		200
110.0	17982	9.241E-06	2.772E-05		200
112.0	46619	2.396E-05	7.187E-05		200
114.0	65400	3.361E-05	1.008E-04		200
116.0	212971	1.094E-04	3.283E-04		200
118.0	335205	1.723E-04	5.168E-04		200
120.0	536805	2.759E-04	8.276E-04		200
122.0	524267	2.694E-04	8.082E-04		200
124.0	607885	3.124E-04	9.371E-04		200
126.0	531491	2.731E-04	8.194E-04		200
128.0	542521	2.788E-04	8.364E-04		200
130.0	369390	1.898E-04	5.695E-04		200
132.0	326976	1.640E-04	5.041E-04		200
134.0	157180	8.077E-05	2.423E-04		200
136.0	60911	3.130E-05	9.390E-05		200
138.0	14193	7.293E-06	2.188E-05		200
140.0	1701	8.745E-07	2.623E-06		200
142.0	219	1.127E-07	3.380E-07		200
144.0	0	0.000E+00	0.000E+00		200

CROSSWIND INTEGRATED= 1.562E-02 4.687E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST FT60 FEBRUARY 9, 1962 0949 TO 1020 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 3.0 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
114.0	0.2	47	2.427E-08	7.281E-08	200
114.0	0.4	72	3.751E-08	1.125E-07	200
114.0	0.8	96	4.964E-08	1.489E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
122.0	0.2	6725	3.456E-06	1.037E-05	200
122.0	0.4	7286	3.704E-06	1.123E-05	200
122.0	0.8	7947	4.084E-06	1.225E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
130.0	0.2	2863	1.472E-06	4.415E-06	200
130.0	0.4	2689	1.382E-06	4.147E-06	200
130.0	0.8	3623	1.862E-06	5.587E-06	200

TEST FT60 FEBRUARY 9, 1962 0949 TO 1020 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
102.0	12	6.447E-09	1.946E-08		800
104.0	7	3.892E-09	1.168E-08		800
106.0	5	2.595E-09	7.784E-09		800
108.0	45	2.335E-08	7.006E-08		800
110.0	93	4.800E-08	1.440E-07		800
112.0	1037	5.332E-07	1.600E-06		800
114.0	4122	2.119E-06	6.356E-06		800
116.0	8361	4.297E-06	1.289E-05		800
118.0	15196	7.809E-06	2.343E-05		800
120.0	20144	1.035E-05	3.106E-05		800
122.0	36050	1.853E-05	5.558E-05		800
124.0	50089	2.574E-05	7.722E-05		800
126.0	27054	1.390E-05	4.171E-05		800
128.0	18412	9.462E-06	2.839E-05		800
130.0	12931	6.645E-06	1.994E-05		800
132.0	4001	2.056E-06	6.169E-06		800
134.0	1401	7.200E-07	2.160E-06		800
136.0	27	1.427E-08	4.281E-08		800
138.0	2	1.297E-09	3.892E-09		800
140.0	0	0.000E+00	0.000E+00		800

CROSSWIND INTEGRATED= 2.856E-03 8.567E-03
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST FT60 FEBRUARY 9, 1962 0949 TO 1020 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC U= 3.0 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
130.0	0.2	278	1.430E-07	4.290E-07	800
130.0	0.4	385	1.980E-07	5.940E-07	800
130.0	0.8	445	2.289E-07	6.868E-07	800

TEST FT60 FEBRUARY 9, 1962 0949 TO 1020 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM=SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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113.0	5	2.946E-09	8.438E-09	1600
114.0	34	1.768E-08	5.303E-08	1600
115.0	139	7.169E-08	2.151E-07	1600
116.0	204	1.051E-07	3.152E-07	1600
117.0	609	3.133E-07	9.398E-07	1600
118.0	472	2.426E-07	7.277E-07	1600
119.0	2319	1.192E-06	3.577E-06	1600
120.0	4173	2.145E-06	6.434E-06	1600
121.0	5289	2.718E-06	8.155E-06	1600
122.0	6692	3.439E-06	1.032E-05	1600
123.0	7888	4.054E-06	1.216E-05	1600
124.0	10755	5.527E-06	1.658E-05	1600
125.0	10562	5.428E-06	1.628E-05	1600
126.0	8309	4.270E-06	1.281E-05	1600
127.0	6631	3.408E-06	1.022E-05	1600
128.0	1077	5.539E-07	1.662E-06	1600
129.0	4991	2.565E-06	7.695E-06	1600
130.0	3030	1.557E-06	4.672E-06	1600
131.0	1574	8.042E-07	2.428E-06	1600
132.0	519	2.671E-07	8.013E-07	1600
133.0	259	1.336E-07	4.007E-07	1600
134.0	173	8.936E-08	2.681E-07	1600
135.0	11	5.892E-09	1.768E-08	1600
136.0	0	0.000E+00	0.000E+00	1600

CROSSWIND INTEGRATED= 1.087E-03 3.260E-03
SEC/SQ.M 1/M

TEST FT60 FEBRUARY 9, 1962 0949 TO 1020 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM=SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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114.0	0	4.949E-10	1.497E-09	3200
115.0	4	2.495E-09	7.484E-09	3200
116.0	5	2.993E-09	8.980E-09	3200
117.0	85	4.390E-08	1.317E-07	3200
118.0	174	8.980E-08	2.694E-07	3200
119.0	486	2.500E-07	7.499E-07	3200
120.0	1011	5.199E-07	1.560E-06	3200
121.0	1860	9.559E-07	2.868E-06	3200
122.0	3601	1.851E-06	5.553E-06	3200
123.0	4767	2.450E-06	7.350E-06	3200
124.0	5569	2.862E-06	8.587E-06	3200
125.0	5932	3.048E-06	9.145E-06	3200
126.0	4490	2.307E-06	6.922E-06	3200
127.0	3437	1.767E-06	5.300E-06	3200
128.0	1610	8.277E-07	2.483E-06	3200
129.0	714	3.672E-07	1.102E-06	3200
130.0	364	1.871E-07	5.613E-07	3200
131.0	130	6.685E-08	2.004E-07	3200
132.0	72	3.742E-08	1.123E-07	3200
133.0	7	3.991E-09	1.197E-08	3200

CROSSWIND INTEGRATED= 9.453E-04 2.956E-03
SEC/SQ.M 1/M

30-SERIES EXPERIMENT; 61 (FT-61)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS.

TEST FT61 FEBRUARY 2A, 1962 1114 TO 1145 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
96.0	0	0.000E+00	0.000E+00		200
98.0	9	3.833E-09	1.610E-08		200
100.0	223	1.493E-08	3.735E-07		200
102.0	1841	7.314E-07	3.072E-06		200
104.0	7212	2.864E-06	1.203E-05		200
106.0	22066	8.764E-06	3.681E-05		200
108.0	39341	1.562E-05	6.562E-05		200
110.0	60845	2.418E-05	1.016E-04		200
112.0	102311	4.063E-05	1.707E-04		200
114.0	114073	4.530E-05	1.903E-04		200
116.0	178487	7.048E-05	2.977E-04		200
118.0	200577	7.966E-05	3.306E-04		200
120.0	273126	1.085E-04	4.556E-04		200
122.0	263234	1.045E-04	4.391E-04		200
124.0	313919	1.207E-04	5.236E-04		200
126.0	361452	1.435E-04	6.029E-04		200
128.0	292389	1.161E-04	4.877E-04		200
130.0	237799	9.444E-05	3.966E-04		200
132.0	197683	7.851E-05	3.297E-04		200
134.0	127739	5.073E-05	2.131E-04		200
136.0	98037	3.893E-05	1.635E-04		200
138.0	34355	1.364E-05	5.730E-05		200
140.0	10733	4.263E-06	1.790E-05		200
142.0	4712	1.871E-06	7.860E-06		200
144.0	467	1.855E-07	7.792E-07		200
146.0	0	0.000E+00	0.000E+00		200
148.0	34	1.380E-08	5.796E-08		200
150.0	9	3.833E-09	1.610E-08		200
152.0	23	9.200E-09	3.864E-08		200
154.0	7	3.067E-09	1.288E-08		200
156.0	5	2.300E-09	9.660E-09		200
158.0	7	3.067E-09	1.288E-08		200

CROSSWIND INTEGRATED= 8.159E-03 SEC/AR.M
1/M

TOWER DATA FOLLOW....

TEST FT61 FEBRUARY 2A, 1962 1114 TO 1145 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 4.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
98.0	4.1	3	1.578E-09	6.626E-09	200
98.0	0.3	18347	7.287E-06	3.060E-05	200
98.0	0.7	20874	8.290E-06	3.482E-05	200
98.0	1.4	9381	3.726E-06	1.565E-05	200
98.0	2.7	11544	4.585E-06	1.926E-05	200
98.0	4.1	7620	3.026E-06	1.271E-05	200
98.0	5.4	1670	6.636E-07	2.787E-06	200
98.0	6.8	8903	3.536E-06	1.485E-05	200
98.0	8.1	8895	3.533E-06	1.484E-05	200
98.0	9.4	6996	2.779E-06	1.167E-05	200
98.0	10.8	5963	2.368E-06	9.947E-06	200
98.0	13.5	1579	6.273E-07	2.635E-06	200
98.0	16.2	3725	1.480E-06	6.215E-06	200
98.0	18.9	2660	1.056E-06	4.437E-06	200
98.0	21.6	1075	4.270E-07	1.793E-06	200
98.0	24.3	549	2.180E-07	9.158E-07	200
98.0	27.0	390	1.553E-07	6.521E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.3	99153	3.938E-05	1.654E-04	200
114.0	0.7	87325	3.468E-05	1.457E-04	200
114.0	1.4	26677	1.059E-05	4.450E-05	200
114.0	2.7	42507	1.688E-05	7.090E-05	200
114.0	4.1	33480	1.330E-05	5.585E-05	200
114.0	5.4	22384	8.890E-06	3.734E-05	200
114.0	6.8	15662	6.220E-06	2.613E-05	200
114.0	8.1	18320	7.276E-06	3.056E-05	200
114.0	9.4	14174	5.629E-06	2.364E-05	200
114.0	10.8	13412	5.327E-06	2.237E-05	200
114.0	13.5	8043	3.195E-06	1.342E-05	200
114.0	16.2	12196	4.844E-06	2.034E-05	200
114.0	18.9	5256	2.088E-06	8.768E-06	200
114.0	21.6	8159	2.446E-06	1.027E-05	200
114.0	24.3	3884	1.384E-06	5.813E-06	200
114.0	27.0	2369	9.410E-07	3.952E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
122.0	0.3	176534	7.011E-05	2.945E-04	200
122.0	0.7	233159	9.260E-05	3.889E-04	200
122.0	1.4	82471	3.275E-05	1.376E-04	200
122.0	2.7	80685	3.204E-05	1.346E-04	200
122.0	4.1	137103	5.405E-05	2.287E-04	200
122.0	5.4	106862	4.244E-05	1.782E-04	200
122.0	6.8	119825	4.759E-05	1.999E-04	200
122.0	8.1	97057	3.855E-05	1.619E-04	200
122.0	9.4	56270	2.235E-05	9.386E-05	200
122.0	10.8	68390	2.716E-05	1.141E-04	200
122.0	13.5	75944	3.016E-05	1.267E-04	200
122.0	16.2	18441	7.324E-06	3.076E-05	200
122.0	18.9	53216	2.113E-05	8.876E-05	200
122.0	21.6	26087	1.036E-05	4.351E-05	200
122.0	24.3	4218	1.676E-06	7.037E-06	200
122.0	27.0	5537	2.199E-06	9.237E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
130.0	0.3	161405	6.410E-05	2.692E-04	200
130.0	0.7	150748	5.987E-05	2.514E-04	200
130.0	1.4	46194	1.835E-05	7.705E-05	200
130.0	2.7	68995	2.740E-05	1.151E-04	200
130.0	4.1	53200	2.113E-05	8.874E-05	200
130.0	5.4	57373	2.279E-05	9.570E-05	200
130.0	6.8	49692	1.974E-05	8.289E-05	200
130.0	8.1	46688	1.854E-05	7.788E-05	200
130.0	9.4	17017	6.758E-06	2.838E-05	200
130.0	10.8	39341	1.562E-05	6.562E-05	200
130.0	13.5	30224	1.200E-05	5.041E-05	200
130.0	16.2	20676	8.212E-06	3.449E-05	200
130.0	18.9	12927	5.134E-06	2.156E-05	200
130.0	21.6	8468	3.363E-06	1.413E-05	200
130.0	24.3	5856	2.326E-06	9.768E-06	200
130.0	27.0	4840	1.922E-06	8.074E-06	200

TEST FY61 FEBRUARY 28, 1962 1114 TO 1145 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/G SEC/CM. X10E+6	EU/G 1/90.M	DISTANCE METERS
98.0	0	0.000E+00	0.000E+00	800	
100.0	1	7.416E-10	3.115E-09	800	
102.0	1	7.416E-10	3.115E-09	800	
104.0	0	0.000E+00	0.000E+00	800	
106.0	35	1.409E-08	5.918E-08	800	
T 108.0	9	3.708E-09	1.557E-08	800	
110.0	63	2.521E-08	1.059E-07	800	
112.0	339	1.350E-07	5.669E-07	800	
114.0	1417	5.629E-07	2.364E-06	800	
116.0	1275	5.065E-07	2.127E-06	800	
118.0	2507	9.760E-07	4.183E-06	800	
120.0	2042	8.113E-07	3.407E-06	800	
122.0	3770	1.497E-06	6.289E-06	800	
R 124.0	547	2.173E-07	9.126E-07	800	
126.0	1938	7.698E-07	3.233E-06	800	
128.0	1949	7.742E-07	3.252E-06	800	
D 130.0	5101	2.026E-06	8.509E-06	800	
132.0	885	3.515E-07	1.476E-06	800	
134.0	896	3.560E-07	1.495E-06	800	
7 136.0	177	7.045E-08	2.959E-07	800	
138.0	274	1.090E-07	4.579E-07	800	
140.0	16	6.674E-09	2.803E-08	800	
142.0	1	7.416E-10	3.115E-09	800	
144.0	0	0.000E+00	0.000E+00	800	
146.0	0	0.000E+00	0.000E+00	800	

CROSSWIND INTEGRATED= 2.579E-04 1.083E-03
SEC/90.M 1/M

TONER DATA FOLLOW....

TEST FY61 FEBRUARY 28, 1962 1114 TO 1145 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC U= 4.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/G SEC/CM. X10E+6	EU/G 1/90.M	DISTANCE METERS
106.0	0.3	108	4.299E-08	1.805E-07	800
106.0	0.5	79	3.167E-08	1.330E-07	800
106.0	1.0	60	2.391E-08	1.000E-07	800
L 106.0	2.1	0	0.000E+00	0.000E+00	800
106.0	4.2	2	1.017E-09	4.273E-09	800
D 106.0	6.3	7	3.052E-09	1.282E-08	800
106.0	8.4	11	4.578E-09	1.923E-08	800
106.0	10.5	7	3.052E-09	1.282E-08	800
106.0	12.6	12	5.087E-09	2.136E-08	800
106.0	14.7	0	0.000E+00	0.000E+00	800
106.0	16.8	0	0.000E+00	0.000E+00	800
106.0	21.0	0	0.000E+00	0.000E+00	800
106.0	25.2	0	0.000E+00	0.000E+00	800
106.0	29.4	0	0.000E+00	0.000E+00	800
106.0	33.6	0	0.000E+00	0.000E+00	800
106.0	37.8	0	0.000E+00	0.000E+00	800
106.0	42.0	0	0.000E+00	0.000E+00	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/G SEC/CM. X10E+6	EU/G 1/90.M	DISTANCE METERS
114.0	0.3	5995	2.381E-06	1.000E-05	800
114.0	0.5	5075	2.016E-06	8.466E-06	800
114.0	1.0	2351	9.339E-07	3.922E-06	800
M 114.0	2.1	0	0.000E+00	0.000E+00	800
114.0	4.2	1635	6.496E-07	2.728E-06	800
114.0	6.3	1440	5.799E-07	2.035E-06	800
114.0	8.4	1367	5.433E-07	2.282E-06	800
114.0	10.5	1630	6.511E-07	2.735E-06	800
114.0	12.6	1159	4.603E-07	1.933E-06	800
114.0	14.7	1160	4.608E-07	1.936E-06	800
114.0	16.8	999	3.968E-07	1.664E-06	800
114.0	21.0	841	3.423E-07	1.438E-06	800
114.0	25.2	798	3.170E-07	1.331E-06	800
D 114.0	29.4	555	2.205E-07	9.260E-07	800
114.0	33.6	548	2.180E-07	9.156E-07	800
114.0	37.8	699	2.779E-07	1.167E-06	800
114.0	42.0	415	1.652E-07	6.937E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/G SEC/CM. X10E+6	EU/G 1/90.M	DISTANCE METERS
122.0	0.3	11655	4.629E-06	1.944E-05	800
122.0	0.5	6753	2.682E-06	1.126E-05	800
122.0	1.0	5273	2.094E-06	8.795E-06	800
M 122.0	2.1	0	0.000E+00	0.000E+00	800
122.0	4.2	5949	2.363E-06	9.923E-06	800
122.0	6.3	3878	1.540E-06	6.469E-06	800
122.0	8.4	3286	1.305E-06	5.482E-06	800
122.0	10.5	2671	1.061E-06	4.456E-06	800
122.0	12.6	2287	9.085E-07	3.816E-06	800
122.0	14.7	2179	8.657E-07	3.636E-06	800
122.0	16.8	3216	1.277E-06	5.364E-06	800
122.0	21.0	2746	1.091E-06	4.580E-06	800
122.0	25.2	2124	8.437E-07	3.543E-06	800
122.0	29.4	2023	8.037E-07	3.376E-06	800
122.0	33.6	2514	9.984E-07	4.193E-06	800
122.0	37.8	1679	6.669E-07	2.801E-06	800
122.0	42.0	708	2.812E-07	1.181E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/G SEC/CM. X10E+6	EU/G 1/90.M	DISTANCE METERS
130.0	0.3	6750	2.681E-06	1.126E-05	800
130.0	0.5	7058	2.803E-06	1.177E-05	800
130.0	1.0	2893	1.149E-06	4.826E-06	800
M 130.0	2.1	0	0.000E+00	0.000E+00	800
130.0	4.2	3686	1.464E-06	6.149E-06	800
7 130.0	6.3	67	1.882E-08	7.905E-08	800
130.0	8.4	23	9.156E-09	3.845E-08	800
130.0	10.5	0	0.000E+00	0.000E+00	800
130.0	12.6	6	2.543E-09	1.068E-08	800
130.0	14.7	21	8.647E-09	3.632E-08	800
130.0	16.8	108	4.324E-08	1.816E-07	800
130.0	21.0	16	6.613E-09	2.777E-08	800
130.0	25.2	30	1.206E-08	5.067E-08	800
130.0	29.4	47	1.872E-08	7.863E-08	800
130.0	33.6	80	3.203E-08	1.345E-07	800
130.0	37.8	34	1.373E-08	5.766E-08	800
130.0	42.0	28	1.123E-08	4.718E-08	800

TEST FT61 FEBRUARY 28, 1962 1114 TO 1145 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
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108.0	0	0.000E+00	0.000E+00	1600
109.0	0	0.000E+00	0.000E+00	1600
110.0	5	2.344E-09	9.865E-09	1600
111.0	17	7.047E-09	2.960E-08	1600
112.0	38	1.527E-08	6.412E-08	1600
113.0	136	5.402E-08	2.269E-07	1600
114.0	292	1.163E-07	4.883E-07	1600
115.0	239	9.513E-08	3.995E-07	1600
116.0	319	1.268E-07	5.327E-07	1600
117.0	764	3.036E-07	1.275E-06	1600
118.0	767	3.048E-07	1.280E-06	1600
119.0	986	3.917E-07	1.645E-06	1600
120.0	808	3.212E-07	1.349E-06	1600
121.0	1446	5.743E-07	2.412E-06	1600
122.0	1775	7.052E-07	2.962E-06	1600
123.0	1724	6.847E-07	2.876E-06	1600
124.0	1345	5.344E-07	2.244E-06	1600
125.0	2012	7.992E-07	3.357E-06	1600
126.0	1383	5.496E-07	2.308E-06	1600
127.0	1203	4.740E-07	2.008E-06	1600
128.0	68	2.701E-08	1.134E-07	1600
129.0	1372	5.449E-07	2.289E-06	1600
130.0	1100	4.349E-07	1.835E-06	1600
131.0	430	1.709E-07	7.177E-07	1600
132.0	530	2.168E-07	8.854E-07	1600
133.0	309	1.227E-07	5.155E-07	1600
134.0	171	6.812E-08	2.861E-07	1600
135.0	221	8.808E-08	3.699E-07	1600
136.0	5	2.349E-09	9.865E-09	1600
137.0	5	2.349E-09	9.865E-09	1600
138.0	10	4.110E-09	1.726E-08	1600
139.0	13	5.245E-09	2.220E-08	1600
140.0	0	0.000E+00	0.000E+00	1600
141.0	0	0.000E+00	0.000E+00	1600

CROSSWIND INTEGRATED= 2.163E-04 9.086E-04
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST FT61 FEBRUARY 28, 1962 1114 TO 1145 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC U= 4.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
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98.0	0.2	18	7.324E-09	3.076E-08	1600
98.0	0.4	6	2.441E-09	1.025E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
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114.0	0.2	442	1.758E-07	7.383E-07	1600
114.0	0.4	506	2.010E-07	8.443E-07	1600
114.0	0.8	442	1.758E-07	7.383E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
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122.0	0.2	3336	1.325E-06	5.565E-06	1600
122.0	0.4	2772	1.101E-06	4.625E-06	1600
122.0	0.8	3146	1.266E-06	5.315E-06	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
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130.0	0.2	1573	6.250E-07	2.625E-06	1600
130.0	0.4	1543	6.124E-07	2.574E-06	1600
130.0	0.8	1713	6.804E-07	2.854E-06	1600

TEST FT61 FEBRUARY 28, 1962 1114 TO 1145 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
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80.0	1	6.836E-10	2.871E-09	3200
81.0	2	1.025E-09	4.307E-09	3200
82.0	3	1.367E-09	5.743E-09	3200
83.0	2	1.025E-09	4.307E-09	3200
84.0	92	3.658E-08	1.536E-07	3200
85.0	6	2.393E-09	1.005E-08	3200
86.0	3	1.367E-09	5.743E-09	3200
87.0	152	6.050E-08	2.541E-07	3200
88.0	1	6.836E-10	2.871E-09	3200
89.0	3	1.367E-09	5.743E-09	3200
90.0	35	1.401E-08	5.886E-08	3200
91.0	0	0.000E+00	0.000E+00	3200
92.0	5	2.051E-09	8.614E-09	3200
93.0	2	1.025E-09	4.307E-09	3200
94.0	0	0.000E+00	0.000E+00	3200
95.0	47	1.880E-08	7.896E-08	3200
96.0	8	3.418E-09	1.436E-08	3200
97.0	1	6.836E-10	2.871E-09	3200
98.0	0	0.000E+00	0.000E+00	3200
99.0	6	2.735E-09	1.149E-08	3200
100.0	0	3.418E-10	1.436E-09	3200
101.0	12	4.786E-09	2.010E-08	3200
102.0	1	6.836E-10	2.871E-09	3200
103.0	2	1.025E-09	4.307E-09	3200
104.0	80	3.179E-08	1.335E-07	3200
105.0	56	2.256E-08	9.475E-08	3200
106.0	3	1.367E-09	5.743E-09	3200
107.0	0	3.418E-10	1.436E-09	3200
108.0	1	6.836E-10	2.871E-09	3200
109.0	3	1.367E-09	5.743E-09	3200
110.0	0	0.000E+00	0.000E+00	3200
111.0	8	3.418E-09	1.436E-08	3200
112.0	3	1.367E-09	5.743E-09	3200
113.0	18	7.520E-09	3.158E-08	3200
114.0	59	2.359E-08	9.906E-08	3200
115.0	55	2.188E-08	9.188E-08	3200
116.0	13	5.469E-09	2.297E-08	3200
117.0	65	2.598E-08	1.091E-07	3200
118.0	92	3.692E-08	1.551E-07	3200
119.0	158	6.290E-08	2.642E-07	3200
120.0	86	3.452E-08	1.450E-07	3200
121.0	173	6.871E-08	2.846E-07	3200
122.0	407	1.620E-07	6.805E-07	3200
123.0	808	3.210E-07	1.348E-06	3200
124.0	849	3.374E-07	1.417E-06	3200
125.0	1042	4.139E-07	1.739E-06	3200
126.0	730	2.902E-07	1.219E-06	3200
127.0	728	2.892E-07	1.215E-06	3200
128.0	567	2.253E-07	9.461E-07	3200
129.0	419	1.665E-07	6.992E-07	3200
130.0	414	1.644E-07	6.906E-07	3200
131.0	352	1.398E-07	5.872E-07	3200
132.0	166	6.597E-08	2.771E-07	3200
133.0	157	6.255E-08	2.627E-07	3200
134.0	56	2.256E-08	9.475E-08	3200
135.0	33	1.333E-08	5.599E-08	3200
136.0	27	1.094E-08	4.594E-08	3200
137.0	1	6.836E-10	2.871E-09	3200
138.0	0	0.000E+00	0.000E+00	3200

CROSSWIND INTEGRATED= 1.783E-04 7.489E-04
SEC/SQ.M 1/M

TOPEP DATA FOLLOW....

TEST FT61 FEBRUARY 28, 1962 1114 TO 1145 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC U= 4.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
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114.0	0.2	46	1.851E-08	7.773E-08	3200
114.0	0.8	59	2.352E-08	9.878E-08	3200
114.0	0.8	29	1.157E-08	4.858E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
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Z 122.0	0.2	294	1.168E-07	4.907E-07	3200
Z 122.0	0.4	194	7.711E-08	3.239E-07	3200
122.0	0.8	558	2.217E-07	9.312E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
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130.0	0.2	119	4.743E-08	1.992E-07	3200
130.0	0.4	320	1.272E-07	5.344E-07	3200
Z 130.0	0.8	63	2.506E-08	1.053E-07	3200

30-SERIES EXPERIMENT: 62 (FT-62)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS. MUCH OF THE
PLUME PASSED TO THE NORTH OF THE GRID.

TEST F162 JULY 10, 1962 0422 TO 0452 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M APC SAMPLER HT 1.5M U= 0.7 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SG.M	DISTANCE METERS
70.0	818349	1.193E-03	8.351E-04	200
72.0	870289	1.269E-03	8.841E-04	200
R 74.0	86759	1.265E-04	8.853E-05	200
R 76.0	102623	1.496E-04	1.047E-04	200
78.0	782960	1.141E-03	7.989E-04	200
80.0	814631	1.188E-03	8.313E-04	200
82.0	639476	9.322E-04	6.525E-04	200
84.0	594371	8.664E-04	6.065E-04	200
86.0	350484	5.109E-04	3.576E-04	200
88.0	184628	2.691E-04	1.884E-04	200
90.0	87685	1.278E-04	8.947E-05	200
92.0	38310	5.585E-05	3.909E-05	200
94.0	13185	1.922E-05	1.345E-05	200
96.0	5145	7.501E-06	5.250E-06	200
98.0	1480	2.158E-06	1.511E-06	200
100.0	90	1.325E-07	9.272E-08	200
102.0	43	6.377E-08	4.464E-08	200
104.0	0	0.000E+00	0.000E+00	200
106.0	0	0.000E+00	0.000E+00	200

CROSSWIND INTEGRATED= 5.486E-02 3.840E-02
SEC/30.M 1/M

TOWER DATA FOLLOW....

TEST F162 JULY 10, 1962 0422 TO 0452 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 0.7 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SG.M	DISTANCE METERS
98.0	0.3	629	9.174E-07	6.421E-07	200
98.0	0.7	511	1.182E-06	8.276E-07	200
Z 98.0	1.4	83	1.217E-07	8.529E-08	200
98.0	2.7	1771	2.583E-06	1.808E-06	200
98.0	4.1	6944	9.420E-06	6.597E-06	200
98.0	5.4	12405	1.808E-05	1.266E-05	200
98.0	6.8	13142	1.916E-05	1.341E-05	200
98.0	8.1	11575	1.687E-05	1.181E-05	200
98.0	9.4	6145	8.959E-06	6.271E-06	200
98.0	10.8	3909	5.694E-06	3.986E-06	200
98.0	13.5	1301	1.897E-06	1.328E-06	200
98.0	16.2	417	6.086E-07	4.260E-07	200
98.0	18.9	424	6.193E-07	4.335E-07	200
98.0	21.6	147	2.148E-07	1.504E-07	200
98.0	24.3	70	1.032E-07	7.222E-08	200
98.0	27.0	41	6.082E-08	4.257E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SG.M	DISTANCE METERS
106.0	0.3	20	2.943E-08	2.060E-08	200
106.0	0.7	94	1.374E-07	9.615E-08	200
106.0	1.4	0	0.000E+00	0.000E+00	200
106.0	2.7	18	2.685E-08	1.879E-08	200
106.0	4.1	9	1.432E-08	1.002E-08	200
106.0	5.4	396	5.782E-07	4.047E-07	200
106.0	6.8	279	4.081E-07	2.857E-07	200
106.0	8.1	766	1.117E-06	7.819E-07	200
106.0	9.4	1191	1.736E-06	1.215E-06	200
106.0	10.8	397	5.799E-07	4.060E-07	200
106.0	13.5	223	3.258E-07	2.280E-07	200
106.0	16.2	84	1.235E-07	8.646E-08	200
106.0	18.9	132	1.933E-07	1.353E-07	200
106.0	21.6	58	8.592E-08	6.014E-08	200
106.0	24.3	27	4.018E-08	2.813E-08	200
106.0	27.0	15	2.211E-08	1.597E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SG.M	DISTANCE METERS
122.0	0.3	16	2.453E-08	1.717E-08	200
122.0	0.7	0	0.000E+00	0.000E+00	200
122.0	1.4	14	2.148E-08	1.504E-08	200
122.0	2.7	0	0.000E+00	0.000E+00	200
122.0	4.1	3	5.370E-09	3.759E-09	200
122.0	5.4	0	0.000E+00	0.000E+00	200
122.0	6.8	8	1.253E-08	8.771E-09	200
122.0	8.1	0	0.000E+00	0.000E+00	200
122.0	9.4	0	0.000E+00	0.000E+00	200
122.0	10.8	0	0.000E+00	0.000E+00	200
122.0	13.5	9	1.432E-08	1.002E-08	200
122.0	16.2	0	0.000E+00	0.000E+00	200
122.0	18.9	2	3.580E-09	2.506E-09	200
122.0	21.6	0	0.000E+00	0.000E+00	200
122.0	24.3	0	0.000E+00	0.000E+00	200
122.0	27.0	2	4.344E-09	3.041E-09	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SG.M	DISTANCE METERS
130.0	0.3	16	2.453E-08	1.717E-08	200
130.0	0.7	6	9.811E-09	6.868E-09	200
130.0	1.4	22	3.222E-08	2.255E-08	200
130.0	2.7	36	5.370E-08	3.759E-08	200
130.0	4.1	14	2.148E-08	1.504E-08	200
130.0	5.4	25	3.759E-08	2.631E-08	200
130.0	6.8	12	1.790E-08	1.253E-08	200
130.0	8.1	11	1.611E-08	1.128E-08	200
130.0	9.4	19	2.864E-08	2.005E-08	200
130.0	10.8	6	8.950E-09	6.265E-09	200
130.0	13.5	11	1.611E-08	1.128E-08	200
130.0	16.2	87	1.271E-07	8.896E-08	200
130.0	18.9	3	5.370E-09	3.759E-09	200
130.0	21.6	2	3.580E-09	2.506E-09	200
130.0	24.3	0	1.086E-09	7.602E-10	200
130.0	27.0	5	7.602E-09	5.322E-09	200

TEST F162 JULY 10, 1962 0422 TO 0452 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ARC SAMPLER HT 1.5M U= 0.7 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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70.0	30586	4.459E-05	3.121E-05	800
72.0	38402	5.598E-05	3.919E-05	800
74.0	38523	5.616E-05	3.931E-05	800
76.0	42546	6.202E-05	4.341E-05	800
78.0	40388	5.888E-05	4.121E-05	800
80.0	29795	4.343E-05	3.040E-05	800
82.0	20625	3.007E-05	2.105E-05	800
84.0	17077	2.449E-05	1.743E-05	800
86.0	10807	1.575E-05	1.103E-05	800
88.0	6315	9.206E-06	6.444E-06	800
90.0	4101	5.979E-06	4.185E-06	800
92.0	2900	4.228E-06	2.960E-06	800
94.0	1282	1.870E-06	1.309E-06	800
96.0	1087	1.585E-06	1.109E-06	800
98.0	644	9.396E-07	6.577E-07	800
100.0	615	8.969E-07	6.278E-07	800
Z 102.0	16	2.373E-08	1.661E-08	800
104.0	143	2.088E-07	1.462E-07	800
106.0	55	8.067E-08	5.647E-08	800
Z 108.0	0	0.000E+00	0.000E+00	800
110.0	55	8.067E-08	5.647E-08	800

CROSSWIND INTEGRATED= 1.166E-02 8.160E-03
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST F162 JULY 10, 1962 0422 TO 0452 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ARC U= 0.7 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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98.0	0.3	621	9.064E-07	6.344E-07	800
98.0	0.5	804	1.172E-06	8.205E-07	800
98.0	1.0	296	4.329E-07	3.030E-07	800
98.0	2.1	294	4.294E-07	3.006E-07	800
98.0	4.2	497	7.255E-07	5.078E-07	800
98.0	6.3	862	1.257E-06	8.799E-07	800
98.0	8.4	956	1.394E-06	9.757E-07	800
98.0	10.5	1458	2.126E-06	1.488E-06	800
98.0	12.6	1498	2.185E-06	1.530E-06	800
98.0	14.7	1101	1.605E-06	1.124E-06	800
98.0	16.8	795	1.160E-06	8.121E-07	800
98.0	21.0	387	5.645E-07	3.951E-07	800
98.0	25.2	77	1.135E-07	7.942E-08	800
98.0	29.4	10	1.576E-08	1.103E-08	800
98.0	33.6	0	0.000E+00	0.000E+00	800
98.0	37.8	1	2.101E-09	1.471E-09	800
98.0	42.0	2	4.202E-09	2.942E-09	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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106.0	0.3	29	4.271E-08	2.990E-08	800
106.0	0.5	91	1.329E-07	9.301E-08	800
106.0	1.0	32	4.675E-08	3.272E-08	800
106.0	2.1	15	2.251E-08	1.576E-08	800
106.0	4.2	59	8.657E-08	6.060E-08	800
106.0	6.3	137	2.009E-07	1.406E-07	800
F 106.0	8.4	108	1.576E-07	1.103E-07	800
106.0	10.5	230	3.359E-07	2.351E-07	800
106.0	12.6	217	3.169E-07	2.218E-07	800
106.0	14.7	372	5.437E-07	3.806E-07	800
106.0	16.8	308	5.073E-07	3.551E-07	800
106.0	21.0	249	3.636E-07	2.545E-07	800
106.0	25.2	98	1.439E-07	1.008E-07	800
106.0	29.4	35	5.148E-08	3.603E-08	800
106.0	33.6	2	3.152E-09	2.206E-09	800
106.0	37.8	4	6.303E-09	4.412E-09	800
106.0	42.0	2	4.202E-09	2.942E-09	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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114.0	10.5	0	0.000E+00	0.000E+00	800
114.0	12.6	4	6.926E-09	4.848E-09	800
114.0	14.7	34	5.021E-08	3.515E-08	800
114.0	16.8	52	7.618E-08	5.333E-08	800
114.0	21.0	49	7.272E-08	5.091E-08	800
114.0	25.2	11	1.681E-08	1.177E-08	800
114.0	29.4	18	2.731E-08	1.912E-08	800
114.0	33.6	10	1.576E-08	1.103E-08	800
114.0	37.8	0	0.000E+00	0.000E+00	800
114.0	42.0	7	1.051E-08	7.354E-09	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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122.0	0.3	6	9.491E-09	6.643E-09	800
122.0	0.5	0	0.000E+00	0.000E+00	800
122.0	1.0	0	0.000E+00	0.000E+00	800
122.0	2.1	0	0.000E+00	0.000E+00	800
122.0	4.2	4	6.926E-09	4.848E-09	800
122.0	6.3	0	0.000E+00	0.000E+00	800
122.0	8.4	4	6.926E-09	4.848E-09	800
122.0	10.5	0	0.000E+00	0.000E+00	800
122.0	12.6	0	0.000E+00	0.000E+00	800
122.0	14.7	0	0.000E+00	0.000E+00	800
122.0	16.8	2	3.463E-09	2.424E-09	800
122.0	21.0	0	0.000E+00	0.000E+00	800
122.0	25.2	4	6.303E-09	4.412E-09	800
122.0	29.4	0	0.000E+00	0.000E+00	800
122.0	33.6	0	0.000E+00	0.000E+00	800
122.0	37.8	0	0.000E+00	0.000E+00	800
122.0	42.0	1	2.101E-09	1.471E-09	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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130.0	0.3	32	4.745E-08	3.322E-08	800
130.0	0.5	0	0.000E+00	0.000E+00	800
130.0	1.0	4	6.926E-09	4.848E-09	800
130.0	2.1	0	0.000E+00	0.000E+00	800
130.0	4.2	0	0.000E+00	0.000E+00	800
130.0	6.3	0	0.000E+00	0.000E+00	800
130.0	8.4	4	6.926E-09	4.848E-09	800
130.0	10.5	0	0.000E+00	0.000E+00	800
130.0	12.6	0	0.000E+00	0.000E+00	800
130.0	14.7	0	0.000E+00	0.000E+00	800
130.0	16.8	2	3.463E-09	2.424E-09	800
130.0	21.0	0	0.000E+00	0.000E+00	800
130.0	25.2	0	0.000E+00	0.000E+00	800
130.0	29.4	0	0.000E+00	0.000E+00	800
130.0	33.6	1	2.101E-09	1.471E-09	800
130.0	37.8	0	0.000E+00	0.000E+00	800
130.0	42.0	2	4.202E-09	2.942E-09	800

TEST FT62 JULY 10, 1962 0422 TO 0452 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER MT 1.5M U= 0.7 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
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70.0	9163	1.336E-05	9.350E-06	1600
71.0	6458	9.414E-06	6.590E-06	1600
72.0	4810	7.012E-06	4.909E-06	1600
73.0	4260	6.210E-06	4.347E-06	1600
74.0	4282	6.243E-06	4.370E-06	1600
75.0	4334	6.319E-06	4.423E-06	1600
76.0	5098	7.433E-06	5.203E-06	1600
77.0	7413	1.081E-05	7.565E-06	1600
78.0	7948	1.159E-05	8.110E-06	1600
79.0	7213	1.051E-05	7.360E-06	1600
80.0	6374	9.293E-06	6.505E-06	1600
81.0	6088	8.875E-06	6.213E-06	1600
82.0	4839	7.055E-06	4.938E-06	1600
83.0	5590	8.149E-06	5.704E-06	1600
84.0	4593	6.697E-06	4.688E-06	1600
85.0	4091	5.964E-06	4.175E-06	1600
86.0	3223	4.699E-06	3.289E-06	1600
87.0	3496	5.096E-06	3.568E-06	1600
88.0	2585	3.769E-06	2.638E-06	1600
89.0	1922	2.803E-06	1.962E-06	1600
90.0	1785	2.602E-06	1.822E-06	1600
91.0	1494	2.179E-06	1.525E-06	1600
92.0	1091	1.590E-06	1.113E-06	1600
93.0	1113	1.623E-06	1.136E-06	1600
94.0	502	7.328E-07	5.129E-07	1600
95.0	419	6.112E-07	4.278E-07	1600
96.0	290	4.239E-07	2.967E-07	1600
97.0	216	3.154E-07	2.208E-07	1600
98.0	92	1.347E-07	9.431E-08	1600
99.0	33	4.929E-08	3.450E-08	1600
100.0	65	9.529E-08	6.670E-08	1600
101.0	74	1.084E-07	7.590E-08	1600
102.0	74	1.084E-07	7.590E-08	1600
103.0	45	6.572E-08	4.600E-08	1600
104.0	13	1.972E-08	1.380E-08	1600
105.0	15	2.300E-08	1.610E-08	1600
106.0	31	4.600E-08	3.220E-08	1600
107.0	11	1.643E-08	1.150E-08	1600
108.0	20	2.957E-08	2.070E-08	1600
109.0	9	1.314E-08	9.201E-09	1600

CROSSWIND INTEGRATED= 4.526E-03 SEC/SQ.M
1/M

TOWER DATA FOLLOW...

TEST FT62 JULY 10, 1962 0422 TO 0452 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC U= 0.7 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
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98.0	0.2	0	0.000E+00	0.000E+00	1600
98.0	0.4	55	8.137E-08	5.696E-08	1600
98.0	0.8	21	3.129E-08	2.191E-08	1600
98.0	1.5	25	3.667E-08	2.567E-08	1600
98.0	3.1	157	2.303E-07	1.612E-07	1600
98.0	6.2	186	2.714E-07	1.900E-07	1600
98.0	9.3	424	6.198E-07	4.333E-07	1600
98.0	12.4	465	6.792E-07	4.750E-07	1600
98.0	15.5	509	7.423E-07	5.196E-07	1600
98.0	18.6	413	6.029E-07	4.220E-07	1600
98.0	21.7	252	3.682E-07	2.577E-07	1600
98.0	24.8	43	6.276E-08	4.393E-08	1600
98.0	31.0	23	3.423E-08	2.396E-08	1600
98.0	37.2	13	1.902E-08	1.331E-08	1600
98.0	43.4	1	2.853E-09	1.997E-09	1600
7 98.0	49.6	0	0.000E+00	0.000E+00	1600
98.0	55.8	0	0.000E+00	0.000E+00	1600
7 98.0	62.0	0	0.000E+00	0.000E+00	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
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106.0	0.2	10	1.565E-08	1.095E-08	1600
106.0	0.4	0	0.000E+00	0.000E+00	1600
106.0	0.8	0	0.000E+00	0.000E+00	1600
106.0	1.5	1	1.467E-09	1.027E-09	1600
106.0	3.1	0	0.000E+00	0.000E+00	1600
106.0	6.2	22	3.227E-08	2.259E-08	1600
L 106.0	9.3	0	0.000E+00	0.000E+00	1600
106.0	12.4	166	2.420E-07	1.694E-07	1600
106.0	15.5	85	1.247E-07	8.728E-08	1600
7 106.0	18.6	0	0.000E+00	0.000E+00	1600
106.0	21.7	136	1.995E-07	1.396E-07	1600
106.0	24.8	46	6.751E-08	4.726E-08	1600
106.0	31.0	15	2.187E-08	1.531E-08	1600
106.0	37.2	0	9.509E-10	6.656E-10	1600
106.0	43.4	0	0.000E+00	0.000E+00	1600
106.0	49.6	0	0.000E+00	0.000E+00	1600
106.0	55.8	0	0.000E+00	0.000E+00	1600
106.0	62.0	0	0.000E+00	0.000E+00	1600
106.0	0.0	0	0.000E+00	0.000E+00	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
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114.0	0.2	4	6.259E-09	4.381E-09	1600
114.0	0.4	0	0.000E+00	0.000E+00	1600
114.0	0.8	0	0.000E+00	0.000E+00	1600
114.0	1.5	0	0.000E+00	0.000E+00	1600
114.0	3.1	0	0.000E+00	0.000E+00	1600
114.0	6.2	0	0.000E+00	0.000E+00	1600
114.0	9.3	0	0.000E+00	0.000E+00	1600
114.0	12.4	0	0.000E+00	0.000E+00	1600
114.0	15.5	0	0.000E+00	0.000E+00	1600
114.0	18.6	0	0.000E+00	0.000E+00	1600
114.0	21.7	0	0.000E+00	0.000E+00	1600
114.0	24.8	16	2.377E-08	1.668E-08	1600
114.0	31.0	25	3.799E-08	2.596E-08	1600
114.0	37.2	8	1.236E-08	8.653E-09	1600
114.0	43.4	0	0.000E+00	0.000E+00	1600
114.0	49.6	0	0.000E+00	0.000E+00	1600
114.0	55.8	0	0.000E+00	0.000E+00	1600
114.0	62.0	0	0.000E+00	0.000E+00	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
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122.0	0.2	0	0.000E+00	0.000E+00	1600
122.0	0.4	0	0.000E+00	0.000E+00	1600
122.0	0.8	27	4.068E-08	2.848E-08	1600
122.0	1.5	0	0.000E+00	0.000E+00	1600
122.0	3.1	0	0.000E+00	0.000E+00	1600
122.0	6.2	0	0.000E+00	0.000E+00	1600
122.0	9.3	0	0.000E+00	0.000E+00	1600
122.0	12.4	0	0.000E+00	0.000E+00	1600
122.0	15.5	1	1.467E-09	1.027E-09	1600
122.0	18.6	0	0.000E+00	0.000E+00	1600
122.0	21.7	0	0.000E+00	0.000E+00	1600
122.0	24.8	0	0.000E+00	0.000E+00	1600
122.0	31.0	0	0.000E+00	0.000E+00	1600
122.0	37.2	0	0.000E+00	0.000E+00	1600
122.0	43.4	0	0.000E+00	0.000E+00	1600
122.0	49.6	0	0.000E+00	0.000E+00	1600
122.0	55.8	0	0.000E+00	0.000E+00	1600
122.0	62.0	0	0.000E+00	0.000E+00	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
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TOWER DATA FOLLOW....

133.0	0.2	0	0.000E+00	0.000E+00	1600
133.0	0.4	0	0.000E+00	0.000E+00	1600
133.0	0.8	70	1.033E-07	7.229E-08	1600
133.0	1.5	0	0.000E+00	0.000E+00	1600
133.0	3.1	0	0.000E+00	0.000E+00	1600
133.0	6.2	0	0.000E+00	0.000E+00	1600
133.0	9.3	0	0.000E+00	0.000E+00	1600
133.0	12.4	0	0.000E+00	0.000E+00	1600
133.0	15.5	0	0.000E+00	0.000E+00	1600
133.0	18.6	0	0.000E+00	0.000E+00	1600
133.0	21.7	0	0.000E+00	0.000E+00	1600
133.0	24.8	0	0.000E+00	0.000E+00	1600
133.0	31.0	0	0.000E+00	0.000E+00	1600
133.0	37.2	0	0.000E+00	0.000E+00	1600
133.0	43.4	24	3.613E-08	2.529E-08	1600
133.0	49.6	0	0.000E+00	0.000E+00	1600
133.0	55.8	0	0.000E+00	0.000E+00	1600
133.0	62.0	0	0.000E+00	0.000E+00	1600

TEST FT62 JULY 10, 1962 0422 TO 0452 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC U= 0.7 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
98.0	0.2	101	1.486E-07	1.040E-07	3200
98.0	0.4	126	1.843E-07	1.290E-07	3200
98.0	0.8	68	9.956E-08	6.969E-08	3200
98.0	1.5	60	8.754E-08	6.128E-08	3200
98.0	3.1	133	1.948E-07	1.363E-07	3200
98.0	6.2	186	2.715E-07	1.900E-07	3200
98.0	9.3	265	3.866E-07	2.706E-07	3200
98.0	12.4	324	4.731E-07	3.312E-07	3200
98.0	15.5	365	5.331E-07	3.732E-07	3200
98.0	18.6	313	4.564E-07	3.195E-07	3200
98.0	21.7	5	7.869E-09	5.508E-09	3200
98.0	24.8	215	3.145E-07	2.201E-07	3200
98.0	31.0	152	2.229E-07	1.560E-07	3200
98.0	37.2	36	5.329E-08	3.730E-08	3200
98.0	43.4	0	7.505E-10	5.253E-10	3200
98.0	49.6	0	0.000E+00	0.000E+00	3200
98.0	55.8	0	0.000E+00	0.000E+00	3200
98.0	62.0	0	1.000E-09	7.003E-10	3200

TEST FT62 JULY 10, 1962 0422 TO 0452 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 0.7 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
71.0	36	5.350E-08	3.745E-08	3200
72.0	2026	2.954E-06	2.068E-06	3200
73.0	1913	2.789E-06	1.952E-06	3200
74.0	1950	2.843E-06	1.990E-06	3200
75.0	2228	3.248E-06	2.274E-06	3200
76.0	2223	3.241E-06	2.269E-06	3200
77.0	2160	3.189E-06	2.208E-06	3200
78.0	2086	3.042E-06	2.129E-06	3200
79.0	1932	2.818E-06	1.972E-06	3200
80.0	1791	2.611E-06	1.828E-06	3200
81.0	1022	1.490E-06	1.043E-06	3200
82.0	1630	2.376E-06	1.663E-06	3200
83.0	1981	2.889E-06	2.022E-06	3200
84.0	2038	2.972E-06	2.080E-06	3200
85.0	2162	3.152E-06	2.206E-06	3200
86.0	1685	2.456E-06	1.719E-06	3200
87.0	981	1.431E-06	1.002E-06	3200
88.0	1523	2.220E-06	1.554E-06	3200
89.0	1241	1.810E-06	1.267E-06	3200
90.0	1196	1.745E-06	1.221E-06	3200
91.0	1022	1.490E-06	1.043E-06	3200
92.0	1135	1.655E-06	1.159E-06	3200
93.0	839	1.224E-06	8.571E-07	3200
94.0	739	1.077E-06	7.542E-07	3200
95.0	528	7.698E-07	5.388E-07	3200
96.0	193	2.823E-07	1.976E-07	3200
97.0	221	3.225E-07	2.257E-07	3200
98.0	30	4.458E-08	3.121E-08	3200
99.0	11	1.635E-08	1.144E-08	3200
100.0	6	8.916E-09	6.241E-09	3200
101.0	115	1.679E-07	1.175E-07	3200
102.0	191	2.744E-07	1.956E-07	3200
103.0	120	1.754E-07	1.227E-07	3200
104.0	80	1.174E-07	8.218E-08	3200
105.0	64	9.362E-08	6.553E-08	3200
106.0	3	4.458E-09	3.121E-09	3200
107.0	22	3.249E-08	2.288E-08	3200
108.0	11	1.635E-08	1.144E-08	3200
109.0	13	1.932E-08	1.352E-08	3200
110.0	14	2.080E-08	1.456E-08	3200
111.0	37	5.498E-08	3.849E-08	3200
112.0	3	4.458E-09	3.121E-09	3200
113.0	0	0.000E+00	0.000E+00	3200
114.0	1	1.486E-09	1.040E-09	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
106.0	0.2	6	8.916E-09	6.241E-09	3200
106.0	0.4	6	8.916E-09	6.241E-09	3200
106.0	0.8	22	3.269E-08	2.288E-08	3200
106.0	1.5	25	3.738E-08	2.616E-08	3200
106.0	3.1	16	2.459E-08	1.721E-08	3200
106.0	6.2	35	5.213E-08	3.649E-08	3200
106.0	9.3	16	2.459E-08	1.721E-08	3200
106.0	12.4	36	5.311E-08	3.718E-08	3200
106.0	15.5	33	4.820E-08	3.374E-08	3200
106.0	18.6	29	4.229E-08	2.961E-08	3200
106.0	21.7	43	6.393E-08	4.475E-08	3200
106.0	24.8	64	9.456E-08	6.619E-08	3200
106.0	31.0	3	4.503E-09	3.152E-09	3200
106.0	37.2	47	6.980E-08	4.886E-08	3200
106.0	43.4	8	1.201E-08	8.406E-09	3200
106.0	49.6	0	1.000E-09	7.003E-10	3200
106.0	55.8	2	4.002E-09	2.801E-09	3200
106.0	62.0	0	0.000E+00	0.000E+00	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
130.0	0.2	0	0.000E+00	0.000E+00	3200
130.0	0.4	0	0.000E+00	0.000E+00	3200
130.0	0.8	3	4.458E-09	3.121E-09	3200
130.0	1.5	0	0.000E+00	0.000E+00	3200
130.0	3.1	18	2.754E-08	1.928E-08	3200
130.0	6.2	6	9.836E-09	6.885E-09	3200
130.0	9.3	0	0.000E+00	0.000E+00	3200
130.0	12.4	0	0.000E+00	0.000E+00	3200
130.0	15.5	3	4.918E-09	3.443E-09	3200
130.0	18.6	0	0.000E+00	0.000E+00	3200
130.0	21.7	8	1.180E-08	8.262E-09	3200
130.0	24.8	1	1.501E-09	1.051E-09	3200
130.0	31.0	4	6.004E-09	4.203E-09	3200
130.0	37.2	0	0.000E+00	0.000E+00	3200
130.0	43.4	4	6.004E-09	4.203E-09	3200
130.0	49.6	6	1.000E-08	7.003E-09	3200
130.0	55.8	5	8.003E-09	5.602E-09	3200
130.0	62.0	0	0.000E+00	0.000E+00	3200

CROSSWIND INTEGRATED= 3.193E-03 SEC/SQ.M 2.235E-03 1/M

30-SERIES EXPERIMENT: 63 (FT-63)
 GROUND LEVEL AND TOWER SAMPLING 200 AND 200 M ARCS. GROUND LEVEL
 SAMPLING ONLY 1600-12800 M ARCS. DUST AND CARBON DEPOSITS ON THE
 FILTERS COLLECTED FROM THE 12800 M ARC.

TEST FT63 JULY 22, 1962 2152 TO 0100 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 200M ARC SAMPLER HT 1.5M U= 1.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM. X10E+6	EU/O 1/50.M	DISTANCE METERS
68.0	222907	1.377E-04	1.790E-04	200
70.0	147000	9.080E-05	1.180E-04	200
72.0	97239	6.006E-05	7.808E-05	200
74.0	79529	4.912E-05	6.386E-05	200
76.0	131074	8.096E-05	1.052E-04	200
78.0	152291	9.407E-05	1.223E-04	200
80.0	167893	1.037E-04	1.308E-04	200
82.0	205249	1.268E-04	1.608E-04	200
84.0	259896	1.605E-04	2.087E-04	200
86.0	227708	1.407E-04	1.829E-04	200
88.0	185779	1.147E-04	1.492E-04	200
90.0	222798	1.376E-04	1.789E-04	200
92.0	247266	1.527E-04	1.985E-04	200
94.0	199210	1.230E-04	1.600E-04	200
96.0	136564	8.435E-05	1.097E-04	200
98.0	135577	8.374E-05	1.089E-04	200
100.0	159133	9.829E-05	1.278E-04	200
102.0	163820	1.012E-04	1.315E-04	200
104.0	115125	7.111E-05	9.244E-05	200
106.0	275200	1.700E-04	2.210E-04	200
108.0	408870	2.525E-04	3.283E-04	200
110.0	371061	2.297E-04	2.986E-04	200
112.0	191279	1.141E-04	1.536E-04	200
114.0	201632	1.245E-04	1.619E-04	200
116.0	170325	1.052E-04	1.368E-04	200
118.0	253745	1.567E-04	2.037E-04	200
120.0	271226	1.675E-04	2.178E-04	200
122.0	263333	1.627E-04	2.114E-04	200
124.0	305267	1.886E-04	2.451E-04	200
126.0	364183	2.249E-04	2.924E-04	200
128.0	401928	2.483E-04	3.227E-04	200
130.0	356837	2.204E-04	2.865E-04	200
132.0	306022	1.890E-04	2.457E-04	200
134.0	193620	1.196E-04	1.555E-04	200
136.0	57255	3.536E-05	4.597E-05	200
138.0	15955	9.855E-06	1.281E-05	200
140.0	2229	1.377E-06	1.790E-06	200
142.0	205	1.270E-07	1.651E-07	200
144.0	48	2.976E-08	3.869E-08	200
146.0	9	5.952E-09	7.738E-09	200
148.0	0	0.000E+00	0.000E+00	200

CROSSWIND INTEGRATED* 3.306E-02
 SFC/50.M 4.298E-02
 1/M

TOWER DATA FOLLOW....

TEST FT63 JULY 27, 1962 2152 TO 0100 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 200M ARC U= 1.3 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM. X10E+6	EU/O 1/50.M	DISTANCE METERS
98.0	0.3	142131	8.779E-05	1.141E-04	200
98.0	0.7	144278	8.912E-05	1.159E-04	200
98.0	1.0	84477	5.218E-05	6.783E-05	200
98.0	2.7	103819	6.413E-05	8.336E-05	200
C 98.0	4.1	113334	7.000E-05	9.100E-05	200
C 98.0	5.4	127254	7.860E-05	1.022E-04	200
C 98.0	6.8	115464	7.132E-05	9.271E-05	200
C 98.0	8.1	66969	4.136E-05	5.377E-05	200
C 98.0	9.4	19281	1.191E-05	1.548E-05	200
C 98.0	10.8	26509	1.637E-05	2.129E-05	200
C 98.0	13.5	6592	4.072E-06	5.293E-06	200
C 98.0	16.2	3990	2.465E-06	3.204E-06	200
C 98.0	18.9	1488	9.193E-07	1.195E-06	200
C 98.0	21.6	497	3.073E-07	3.995E-07	200
C 98.0	24.3	112	6.955E-08	9.042E-08	200
C 98.0	27.0	13	8.346E-09	1.085E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM. X10E+6	EU/O 1/50.M	DISTANCE METERS
104.0	0.3	284381	1.757E-04	2.283E-04	200
104.0	0.7	295536	1.825E-04	2.373E-04	200
104.0	1.4	205172	1.267E-04	1.647E-04	200
104.0	2.7	157842	9.751E-05	1.268E-04	200
104.0	4.1	179433	1.108E-04	1.441E-04	200
104.0	5.4	155020	9.575E-05	1.245E-04	200
104.0	6.8	137273	8.479E-05	1.102E-04	200
104.0	8.1	93863	5.798E-05	7.537E-05	200
104.0	9.4	76442	4.722E-05	6.138E-05	200
104.0	10.8	50360	3.111E-05	4.044E-05	200
104.0	13.5	16411	1.014E-05	1.318E-05	200
104.0	16.2	7031	4.303E-06	5.646E-06	200
104.0	18.9	2631	1.625E-06	2.113E-06	200
104.0	21.6	670	4.140E-07	5.382E-07	200
104.0	24.3	204	1.261E-07	1.640E-07	200
104.0	27.0	108	6.677E-08	8.680E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM. X10E+6	EU/O 1/50.M	DISTANCE METERS
114.0	0.3	171638	1.060E-04	1.378E-04	200
114.0	0.7	195427	1.207E-04	1.569E-04	200
114.0	1.4	126076	7.787E-05	1.012E-04	200
114.0	2.7	57327	3.541E-05	4.603E-05	200
C 114.0	4.1	96398	5.954E-05	7.740E-05	200
C 114.0	5.4	123642	7.637E-05	9.928E-05	200
C 114.0	6.8	102127	6.308E-05	8.200E-05	200
C 114.0	8.1	80532	4.974E-05	6.467E-05	200
C 114.0	9.4	60074	3.711E-05	4.824E-05	200
C 114.0	10.8	46288	2.859E-05	3.717E-05	200
C 114.0	13.5	16436	1.015E-05	1.320E-05	200
C 114.0	16.2	5203	3.214E-06	4.179E-06	200
C 114.0	18.9	1802	1.113E-06	1.447E-06	200
C 114.0	21.6	763	4.719E-07	6.134E-07	200
C 114.0	24.3	189	1.168E-07	1.519E-07	200
C 114.0	27.0	40	2.504E-08	3.255E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
122.0	0.3	202763	1.252E-04	1.628E-04	200
122.0	0.7	256462	1.584E-04	2.059E-04	200
122.0	1.4	166196	1.027E-04	1.335E-04	200
122.0	2.7	165218	1.020E-04	1.327E-04	200
122.0	4.1	181960	1.124E-04	1.461E-04	200
122.0	5.4	132789	8.202E-05	1.066E-04	200
122.0	6.8	133432	8.242E-05	1.071E-04	200
122.0	8.1	116148	7.174E-05	9.326E-05	200
122.0	9.4	94816	5.857E-05	7.613E-05	200
122.0	10.8	72243	4.462E-05	5.801E-05	200
122.0	13.5	40978	2.531E-05	3.290E-05	200
122.0	16.2	20487	1.265E-05	1.645E-05	200
122.0	18.9	10443	6.451E-06	8.386E-06	200
122.0	21.6	3551	2.193E-06	2.851E-06	200
122.0	24.3	1031	6.371E-07	8.282E-07	200
122.0	27.0	526	3.255E-07	4.232E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
130.0	0.3	308822	1.907E-04	2.480E-04	200
130.0	0.7	355411	2.195E-04	2.854E-04	200
130.0	1.4	224770	1.388E-04	1.805E-04	200
130.0	2.7	257793	1.592E-04	2.070E-04	200
C 130.0	4.1	94658	3.376E-05	4.389E-05	200
C 130.0	5.4	48723	3.010E-05	3.912E-05	200
C 130.0	6.8	42957	2.653E-05	3.449E-05	200
C 130.0	8.1	22073	1.363E-05	1.772E-05	200
C 130.0	9.4	7931	6.130E-06	7.974E-06	200
C 130.0	10.8	16119	9.957E-06	1.294E-05	200
C 130.0	13.5	6667	4.118E-06	5.354E-06	200
C 130.0	16.2	2620	1.619E-06	2.104E-06	200
C 130.0	18.9	1821	1.125E-06	1.463E-06	200
C 130.0	21.6	664	4.101E-07	5.332E-07	200
C 130.0	24.3	337	2.087E-07	2.713E-07	200
C 130.0	27.0	204	1.261E-07	1.640E-07	200

TEST F163 JULY 22, 1962 2152 TO 0108 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 1.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
C 70.0	18379	1.135E-05	1.476E-05	800
C 72.0	10480	6.474E-06	8.416E-06	800
C 74.0	12960	8.005E-06	1.041E-05	800
C 76.0	14023	8.662E-06	1.126E-05	800
C 78.0	16757	1.035E-05	1.346E-05	800
C 80.0	9247	5.712E-06	7.425E-06	800
C 82.0	21577	1.333E-05	1.733E-05	800
C 84.0	18957	1.171E-05	1.522E-05	800
C 86.0	22879	1.413E-05	1.837E-05	800
C 88.0	22431	1.386E-05	1.801E-05	800
C 90.0	27577	1.703E-05	2.214E-05	800
92.0	28083	1.735E-05	2.255E-05	800
94.0	16900	1.044E-05	1.357E-05	800
96.0	15595	9.613E-06	1.252E-05	800
98.0	17264	1.046E-05	1.386E-05	800
100.0	15163	9.366E-06	1.218E-05	800
Z 102.0	7125	4.401E-06	5.721E-06	800
104.0	25511	1.576E-05	2.048E-05	800
106.0	28932	1.787E-05	2.323E-05	800
Z 108.0	6233	3.850E-06	5.005E-06	800
110.0	22546	1.393E-05	1.810E-05	800
112.0	23528	1.453E-05	1.889E-05	800
114.0	30821	1.904E-05	2.475E-05	800
116.0	14470	8.938E-06	1.162E-05	800
118.0	23534	1.454E-05	1.890E-05	800
120.0	16447	1.016E-05	1.321E-05	800
122.0	21304	1.318E-05	1.714E-05	800
124.0	28655	1.770E-05	2.301E-05	800
126.0	32204	1.949E-05	2.586E-05	800
128.0	32496	2.007E-05	2.609E-05	800
130.0	41094	2.538E-05	3.300E-05	800
132.0	26169	1.616E-05	2.101E-05	800
134.0	10561	6.524E-06	8.481E-06	800
136.0	6528	4.032E-06	5.282E-06	800
138.0	4051	2.503E-06	3.254E-06	800
140.0	310	1.919E-07	2.495E-07	800
Q 142.0	0	0.000E+00	0.000E+00	800
Q 144.0	0	0.000E+00	0.000E+00	800

CROSSWIND INTEGRATED= 1.192E-02 1.509E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST F163 JULY 22, 1962 2152 TO 0108 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC U= 1.3 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
98.0	0.3	13515	8.348E-06	1.085E-05	800
98.0	0.5	14206	8.775E-06	1.141E-05	800
98.0	1.0	9922	6.129E-06	7.968E-06	800
98.0	2.1	10585	6.520E-06	8.475E-06	800
98.0	4.2	8660	5.349E-06	6.954E-06	800
98.0	6.3	9912	6.123E-06	7.960E-06	800
98.0	8.4	9077	5.607E-06	7.289E-06	800
98.0	10.5	7909	4.885E-06	6.351E-06	800
98.0	12.6	5883	3.630E-06	4.724E-06	800
98.0	14.7	3811	2.350E-06	3.061E-06	800
98.0	16.8	2762	1.706E-06	2.218E-06	800
98.0	21.0	1089	6.728E-07	8.747E-07	800
98.0	25.2	318	1.965E-07	2.554E-07	800
98.0	29.4	149	9.240E-08	1.201E-07	800
98.0	33.6	50	3.140E-08	4.082E-08	800
98.0	37.8	26	1.615E-08	2.099E-08	800
98.0	42.0	10	6.279E-09	8.163E-09	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
106.0	0.3	26546	1.640E-05	2.132E-05	800	130.0	0.3	26764	1.653E-05	2.149E-05	800
106.0	0.5	24701	1.526E-05	1.983E-05	800	130.0	0.5	32005	1.977E-05	2.570E-05	800
106.0	1.0	19046	1.176E-05	1.529E-05	800	130.0	1.0	23103	1.427E-05	1.855E-05	800
106.0	2.1	19155	1.183E-05	1.538E-05	800	130.0	2.1	27743	1.716E-05	2.231E-05	800
106.0	4.2	17674	1.212E-05	1.574E-05	800	1 130.0	4.2	11986	7.404E-06	9.625E-06	800
106.0	6.3	18538	1.105E-05	1.489E-05	800	2 130.0	6.3	9465	5.847E-06	7.601E-06	800
106.0	8.4	15198	9.388E-06	1.220E-05	800	130.0	8.4	7319	4.521E-06	5.877E-06	800
106.0	10.5	13486	8.330E-06	1.083E-05	800	130.0	10.5	6956	4.297E-06	5.586E-06	800
106.0	12.6	10182	6.280E-06	8.176E-06	800	130.0	12.6	5597	3.458E-06	4.495E-06	800
106.0	14.7	6630	4.096E-06	5.324E-06	800	130.0	14.7	4822	2.979E-06	3.872E-06	800
106.0	16.8	5335	3.296E-06	4.285E-06	800	130.0	16.8	4125	2.548E-06	3.313E-06	800
106.0	21.0	2216	1.369E-06	1.799E-06	800	130.0	21.0	2355	1.455E-06	1.892E-06	800
106.0	25.2	750	4.638E-07	6.029E-07	800	130.0	25.2	1244	7.688E-07	9.994E-07	800
106.0	29.4	396	2.449E-07	3.184E-07	800	130.0	29.4	929	5.741E-07	7.463E-07	800
106.0	33.6	148	9.150E-08	1.189E-07	800	130.0	33.6	425	2.628E-07	3.417E-07	800
106.0	37.8	65	4.037E-08	5.248E-08	800	130.0	37.8	203	1.256E-07	1.633E-07	800
106.0	42.0	30	1.884E-08	2.449E-08	800	130.0	42.0	78	4.844E-08	6.297E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
114.0	0.3	22783	1.407E-05	1.829E-05	800
114.0	0.5	28346	1.751E-05	2.276E-05	800
114.0	1.0	16076	9.930E-06	1.291E-05	800
114.0	2.1	16916	1.045E-05	1.358E-05	800
114.0	4.2	20524	1.268E-05	1.648E-05	800
114.0	6.3	19213	1.187E-05	1.543E-05	800
114.0	8.4	11660	7.202E-06	9.363E-06	800
114.0	10.5	10595	6.544E-06	8.508E-06	800
114.0	12.6	7961	4.918E-06	6.393E-06	800
114.0	14.7	5970	3.688E-06	4.794E-06	800
114.0	16.8	3263	2.016E-06	2.621E-06	800
114.0	21.0	1657	1.024E-06	1.331E-06	800
114.0	25.2	949	5.867E-07	7.627E-07	800
114.0	29.4	393	2.431E-07	3.160E-07	800
114.0	33.6	251	1.552E-07	2.017E-07	800
114.0	37.8	120	7.446E-08	9.679E-08	800
114.0	42.0	0	0.000E+00	0.000E+00	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
122.0	0.3	18486	1.142E-05	1.484E-05	800
122.0	0.5	17923	1.107E-05	1.439E-05	800
122.0	1.0	13478	8.325E-06	1.082E-05	800
122.0	2.1	14590	9.012E-06	1.172E-05	800
122.0	4.2	13746	9.491E-06	1.104E-05	800
122.0	6.3	12687	7.837E-06	1.019E-05	800
122.0	8.4	12226	7.552E-06	9.817E-06	800
122.0	10.5	10424	6.439E-06	8.370E-06	800
122.0	12.6	9024	5.574E-06	7.247E-06	800
122.0	14.7	6803	4.203E-06	5.463E-06	800
122.0	16.8	6185	3.821E-06	4.967E-06	800
122.0	21.0	4236	2.617E-06	3.402E-06	800
122.0	25.2	1646	1.017E-06	1.322E-06	800
122.0	29.4	1009	6.234E-07	8.105E-07	800
122.0	33.6	518	3.202E-07	4.163E-07	800
122.0	37.8	201	1.247E-07	1.621E-07	800
122.0	42.0	56	3.498E-08	4.548E-08	800

TEST FT63 JULY 22, 1962 2152 TO 0108 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 1400M ARC SAMPLER HT 1.5M U= 1.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	FU/O 1/30.M	DISTANCE METERS
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70.0	6869	4.243E-06	5.516E-06	1600
71.0	6008	3.711E-06	4.825E-06	1600
72.0	5862	3.621E-06	4.708E-06	1600
73.0	5506	3.401E-06	4.422E-06	1600
74.0	4607	2.846E-06	3.699E-06	1600
75.0	4053	2.503E-06	3.255E-06	1600
76.0	3913	2.417E-06	3.142E-06	1600
77.0	3625	2.240E-06	2.912E-06	1600
78.0	3649	2.254E-06	2.930E-06	1600
79.0	3342	2.065E-06	2.684E-06	1600
80.0	4016	2.481E-06	3.225E-06	1600
81.0	4948	3.056E-06	3.973E-06	1600
82.0	5545	3.425E-06	4.453E-06	1600
83.0	5708	3.526E-06	4.584E-06	1600
84.0	6030	3.729E-06	4.842E-06	1600
85.0	5648	3.489E-06	4.535E-06	1600
86.0	4340	2.681E-06	3.486E-06	1600
87.0	40	7.519E-08	3.275E-08	1600
88.0	4557	2.815E-06	3.660E-06	1600
89.0	3486	2.193E-06	2.799E-06	1600
90.0	4400	2.718E-06	3.534E-06	1600
91.0	4802	2.966E-06	3.856E-06	1600
92.0	2647	1.635E-06	2.125E-06	1600
93.0	3314	2.047E-06	2.662E-06	1600
94.0	5079	3.137E-06	4.079E-06	1600
95.0	2344	1.448E-06	1.882E-06	1600
96.0	4171	2.574E-06	3.349E-06	1600
97.0	4570	2.823E-06	3.670E-06	1600
98.0	4620	2.859E-06	3.717E-06	1600
99.0	3664	2.263E-06	2.943E-06	1600
100.0	4755	2.937E-06	3.818E-06	1600
101.0	3299	2.038E-06	2.649E-06	1600
102.0	4703	2.905E-06	3.777E-06	1600
103.0	3793	2.343E-06	3.046E-06	1600
104.0	4083	2.522E-06	3.279E-06	1600
105.0	7949	4.910E-06	6.383E-06	1600
106.0	8685	5.365E-06	6.975E-06	1600
107.0	5723	3.535E-06	4.586E-06	1600
108.0	5528	3.414E-06	4.439E-06	1600
109.0	3759	2.322E-06	3.018E-06	1600
110.0	4212	2.602E-06	3.382E-06	1600
111.0	5334	3.295E-06	4.284E-06	1600
112.0	4259	2.631E-06	3.420E-06	1600
113.0	2392	1.453E-06	1.889E-06	1600
114.0	4718	2.915E-06	3.789E-06	1600
115.0	3898	2.408E-06	3.130E-06	1600
116.0	5442	3.361E-06	4.370E-06	1600
117.0	4875	3.011E-06	3.915E-06	1600
118.0	5455	3.369E-06	4.380E-06	1600
119.0	4227	2.611E-06	3.394E-06	1600
120.0	4622	2.855E-06	3.711E-06	1600
121.0	3583	2.213E-06	2.877E-06	1600
122.0	4325	2.672E-06	3.473E-06	1600
123.0	5062	3.127E-06	4.065E-06	1600
124.0	5841	3.608E-06	4.690E-06	1600
125.0	3494	2.159E-06	2.806E-06	1600
126.0	8310	5.133E-06	6.673E-06	1600
127.0	8007	4.946E-06	6.430E-06	1600
128.0	1283	7.930E-07	1.031E-06	1600
129.0	9123	5.636E-06	7.326E-06	1600
130.0	7002	4.325E-06	5.623E-06	1600
131.0	6442	3.979E-06	5.173E-06	1600
132.0	5079	3.137E-06	4.079E-06	1600
133.0	2644	1.638E-06	2.124E-06	1600
134.0	852	5.264E-07	6.844E-07	1600
135.0	948	5.861E-07	7.619E-07	1600
136.0	10	6.630E-09	8.619E-09	1600
137.0	218	1.353E-07	1.758E-07	1600
138.0	77	4.774E-08	6.206E-08	1600
139.0	27	1.724E-08	2.281E-08	1600
140.0	0	0.000E+00	0.000E+00	1600

CROSSWIND INTEGRATED= 5.268E-03 6.848E-03
 SEC/30.M 1/M

TEST F163 JULY 22, 1962 2152 TO 0100 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M @ 1.3 M/SEC AT 2M

AZIMUTH EXPOSURE E/O EU/O DISTANCE
DEGREES GM-SEC/CU.M SEC/CU.M 1/50,M METERS
X10E+6

71.0	47	2.959E-08	3.847E-08	3200
72.0	2485	1.535E-06	1.996E-06	3200
73.0	2286	1.412E-06	1.836E-06	3200
74.0	2272	1.408E-06	1.825E-06	3200
75.0	2108	1.302E-06	1.693E-06	3200
76.0	1923	1.188E-06	1.545E-06	3200
77.0	1719	1.062E-06	1.381E-06	3200
78.0	1574	9.728E-07	1.265E-06	3200
79.0	1499	9.262E-07	1.204E-06	3200
80.0	1521	9.432E-07	1.226E-06	3200
81.0	1581	9.746E-07	1.270E-06	3200
82.0	1607	9.930E-07	1.291E-06	3200
83.0	1421	8.727E-07	1.141E-06	3200
84.0	1239	7.657E-07	9.954E-07	3200
85.0	1126	6.958E-07	9.045E-07	3200
86.0	999	6.171E-07	8.022E-07	3200
87.0	754	4.659E-07	6.057E-07	3200
88.0	705	4.603E-07	5.984E-07	3200
89.0	749	4.628E-07	6.016E-07	3200
90.0	729	4.508E-07	5.861E-07	3200
91.0	568	3.513E-07	4.568E-07	3200
92.0	660	4.080E-07	5.304E-07	3200
93.0	701	4.332E-07	5.632E-07	3200
94.0	744	4.597E-07	5.975E-07	3200
95.0	753	4.653E-07	6.049E-07	3200
96.0	1126	6.958E-07	9.045E-07	3200
97.0	1227	7.581E-07	9.855E-07	3200
98.0	871	5.384E-07	6.999E-07	3200
99.0	1666	1.029E-06	1.338E-06	3200
100.0	1979	1.223E-06	1.590E-06	3200
101.0	1653	1.021E-06	1.328E-06	3200
102.0	1707	1.055E-06	1.371E-06	3200
103.0	1748	1.080E-06	1.404E-06	3200
104.0	1397	8.633E-07	1.122E-06	3200
105.0	1362	8.419E-07	1.094E-06	3200
106.0	1220	7.537E-07	9.798E-07	3200
107.0	1267	7.827E-07	1.017E-06	3200
108.0	1191	7.361E-07	9.569E-07	3200
109.0	1688	1.043E-06	1.356E-06	3200
110.0	1223	7.556E-07	9.823E-07	3200
111.0	806	4.981E-07	6.475E-07	3200
112.0	832	5.144E-07	6.688E-07	3200
113.0	836	5.169E-07	6.720E-07	3200
114.0	844	5.214E-07	6.778E-07	3200
115.0	1135	7.014E-07	9.119E-07	3200
116.0	101	6.297E-08	8.186E-08	3200
117.0	1084	6.700E-07	8.709E-07	3200
118.0	1390	8.589E-07	1.117E-06	3200
119.0	1711	1.057E-06	1.374E-06	3200
120.0	1635	1.010E-06	1.313E-06	3200
121.0	1130	6.983E-07	9.078E-07	3200

122.0	981	6.064E-07	7.883E-07	3200
123.0	990	6.120E-07	7.956E-07	3200
124.0	1164	7.191E-07	9.348E-07	3200
125.0	1839	1.136E-06	1.477E-06	3200
126.0	2557	1.580E-06	2.054E-06	3200
127.0	2973	1.817E-06	2.388E-06	3200
128.0	3034	1.874E-06	2.437E-06	3200
129.0	2785	1.720E-06	2.236E-06	3200
130.0	2299	1.471E-06	1.847E-06	3200
131.0	1295	8.003E-07	1.040E-06	3200
132.0	573	3.505E-07	4.608E-07	3200
133.0	130	8.060E-08	1.048E-07	3200
134.0	85	5.289E-08	6.876E-08	3200
135.0	88	5.478E-08	7.121E-08	3200
136.0	48	3.022E-08	3.929E-08	3200
137.0	5	3.148E-09	4.093E-09	3200
138.0	11	6.926E-09	9.004E-09	3200
139.0	7	4.408E-09	5.730E-09	3200
140.0	12	7.556E-09	9.823E-09	3200
141.0	0	0.000E+00	0.000E+00	3200
142.0	1	6.297E-10	8.186E-10	3200
143.0	0	0.000E+00	0.000E+00	3200
144.0	0	0.000E+00	0.000E+00	3200
145.0	2	1.259E-09	1.637E-09	3200
146.0	30	1.889E-08	2.456E-08	3200
147.0	9	5.667E-09	7.367E-09	3200
148.0	5	3.148E-09	4.093E-09	3200
149.0	0	0.000E+00	0.000E+00	3200
150.0	0	0.000E+00	0.000E+00	3200
151.0	0	0.000E+00	0.000E+00	3200
152.0	14	8.155E-09	1.146E-08	3200
153.0	0	0.000E+00	0.000E+00	3200

CROSSWIND INTEGRATED= 2.954E-03 3.840E-03
SEC/50,M 1/M

TEST F163 JULY 22, 1962 2152 TC 010A PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 1200M ARC SAMPLER HT 1.5M U= 1.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SFC/CM ² X10 ⁻⁴	E/C SFC/CM ²	EU/O 1/SEC	DISTANCE METERS
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5 90.0	33	2.067E-08	2.687E-08	12800
5 91.0	37	2.289E-08	2.975E-08	12800
4 92.0	48	2.972E-08	3.863E-08	12800
5 93.0	60	1.765E-08	4.895E-08	12800
5 94.0	78	2.381E-08	3.095E-08	12800
5 95.0	86	5.316E-08	6.911E-08	12800
4 96.0	140	8.657E-08	1.125E-07	12800
3 97.0	136	8.450E-08	1.099E-07	12800
4 98.0	88	5.464E-08	7.103E-08	12800
5 99.0	130	8.048E-08	1.006E-07	12800
4 100.0	175	1.085E-07	1.411E-07	12800
4 101.0	169	1.088E-07	1.363E-07	12800
4 102.0	166	1.026E-07	1.334E-07	12800
4 103.0	119	7.402E-08	9.622E-08	12800
6 104.0	42	2.621E-08	3.407E-08	12800
7 105.0	60	3.729E-08	4.847E-08	12800
7 106.0	73	4.559E-08	5.927E-08	12800
8 107.0	52	3.230E-08	4.199E-08	12800
9 108.0	18	1.126E-08	1.464E-08	12800
8 109.0	33	2.067E-08	2.687E-08	12800
0 110.0	65	4.061E-08	5.279E-08	12800
6 111.0	45	2.806E-08	3.647E-08	12800
4 112.0	72	4.067E-08	5.807E-08	12800
5 113.0	134	8.325E-08	1.082E-07	12800
0 114.0	137	8.491E-08	1.104E-07	12800
7 115.0	54	3.381E-08	4.343E-08	12800
8 116.0	38	2.363E-08	3.071E-08	12800
6 117.0	78	4.854E-08	6.311E-08	12800
8 118.0	65	4.061E-08	5.279E-08	12800
3 119.0	138	8.528E-08	1.109E-07	12800
4 120.0	67	4.172E-08	5.423E-08	12800
5 121.0	108	6.719E-08	8.734E-08	12800
5 122.0	101	6.276E-08	8.158E-08	12800
8 123.0	0	3.692E-10	4.799E-10	12800
0 124.0	46	2.898E-08	3.767E-08	12800
7 125.0	34	2.140E-08	2.807E-08	12800
0 126.0	56	3.470E-08	4.511E-08	12800
0 127.0	8	5.168E-09	6.719E-09	12800
8 128.0	2	1.661E-09	2.160E-09	12800
8 129.0	7	4.709E-09	6.239E-09	12800
5 130.0	8	5.517E-09	7.199E-09	12800
5 131.0	5	3.138E-09	4.079E-09	12800
5 132.0	6	3.876E-09	5.039E-09	12800
0 133.0	2	1.661E-09	2.160E-09	12800
4 134.0	1	1.107E-09	1.440E-09	12800

CROSS-SECTION INTEGRATED= 4.143E-04 5.386E-04
 SFC/SEC² 1/M

30-SERIES EXPERIMENT: 64 (FT-64)
GROUND LEVEL AND TOWER SAMPLING 200 AND 800 M ARCS. GROUND LEVEL
SAMPLING ONLY ON THE 1600 AND 3200 M ARCS.

TEST FT64 JULY 23, 1962 2201 TO 2236 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 3.1 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
68.0	64926	8.8A0E-05	2.753F-04	200
70.0	65706	9.001E-05	2.790E-04	200
72.0	39911	5.047E-05	1.695E-04	200
74.0	45971	6.297E-05	1.952E-04	200
76.0	26386	3.615E-05	1.121E-04	200
78.0	43136	5.909E-05	1.832E-04	200
80.0	43179	5.915E-05	1.834E-04	200
82.0	39936	5.071E-05	1.696E-04	200
84.0	40841	4.143E-05	1.904E-04	200
86.0	40802	5.589E-05	1.733E-04	200
88.0	49415	6.769E-05	2.098E-04	200
90.0	46172	6.325E-05	1.961E-04	200
92.0	46684	6.395E-05	1.982E-04	200
94.0	105941	1.451E-04	4.499E-04	200
96.0	183857	2.519E-04	7.808E-04	200
98.0	427975	5.863E-04	1.817E-03	200
100.0	623614	8.543E-04	2.648E-03	200
102.0	604961	8.287E-04	2.569E-03	200
104.0	404391	5.540E-04	1.717E-03	200
106.0	408207	5.592E-04	1.734E-03	200
108.0	363370	4.978E-04	1.543E-03	200
110.0	266889	3.656E-04	1.133E-03	200
112.0	205099	2.810E-04	8.710E-04	200
114.0	202002	2.747E-04	8.578E-04	200
116.0	122775	1.682E-04	5.214E-04	200
118.0	13369	1.831E-05	5.678E-05	200
120.0	3326	4.557E-06	1.413E-05	200
122.0	211	2.804E-07	8.971E-07	200
124.0	486	6.659E-07	2.064E-06	200
126.0	447	6.136E-07	1.902E-06	200
128.0	501	6.849E-07	2.129E-06	200
128.0	422	5.788E-07	1.794E-06	200
130.0	218	2.998E-07	9.295E-07	200
132.0	170	2.336E-07	7.242E-07	200
134.0	106	1.464E-07	4.540E-07	200
136.0	58	8.019E-08	2.486E-07	200
136.0	17	2.441E-08	7.566E-08	200
136.0	89	1.220E-07	3.783E-07	200
138.0	5	6.973E-09	2.162E-08	200

CROSSWIND INTEGRATED= 4.337E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST FT64 JULY 23, 1962 2201 TO 2236 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 3.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.3	545874	7.478E-04	2.318E-03	200
98.0	0.7	475377	6.512E-04	2.019E-03	200
98.0	1.4	373422	5.115E-04	1.586E-03	200
98.0	2.7	355087	4.864E-04	1.508E-03	200
98.0	4.1	358016	4.904E-04	1.520E-03	200
98.0	5.4	247930	3.396E-04	1.053E-03	200
98.0	6.8	182589	2.501E-04	7.754E-04	200
98.0	8.1	133229	1.825E-04	5.658E-04	200
98.0	9.4	81113	1.111E-04	3.445E-04	200
98.0	10.8	45721	6.263E-05	1.942E-04	200
98.0	13.5	16572	2.270E-05	7.038E-05	200
98.0	16.2	5165	7.076E-06	2.193E-05	200
98.0	18.9	965	1.323E-06	4.101E-06	200
98.0	21.6	53	7.294E-08	2.261E-07	200
98.0	24.3	0	0.000E+00	0.000E+00	200
98.0	27.0	0	0.000E+00	0.000E+00	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.3	433566	5.939E-04	1.841E-03	200
106.0	0.7	230183	3.153E-04	9.775E-04	200
106.0	1.4	422648	5.790E-04	1.795E-03	200
106.0	2.7	325469	4.458E-04	1.362E-03	200
106.0	4.1	329310	4.511E-04	1.398E-03	200
106.0	5.4	270208	3.701E-04	1.147E-03	200
106.0	6.8	208596	2.857E-04	8.858E-04	200
106.0	8.1	189431	2.595E-04	8.044E-04	200
106.0	9.4	157235	2.154E-04	6.677E-04	200
106.0	10.8	143697	1.966E-04	6.102E-04	200
106.0	13.5	74541	1.021E-04	3.165E-04	200
106.0	16.2	26372	3.887E-05	1.205E-04	200
106.0	18.9	11000	1.507E-05	4.672E-05	200
106.0	21.6	3199	4.383E-06	1.359E-05	200
106.0	24.3	667	9.142E-07	2.834E-06	200
106.0	27.0	175	2.402E-07	7.446E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
114.0	0.3	137299	1.8A1F-04	5.831F-04	200
114.0	0.7	166387	2.279F-04	7.066E-04	200
114.0	1.4	182932	2.506F-04	7.76AE-04	200
114.0	2.7	302651	4.146F-04	1.285E-03	200
114.0	4.1	237801	3.25PF-04	1.010E-03	200
114.0	5.4	165505	2.267F-04	7.028E-04	200
114.0	6.8	94026	1.288E-04	3.993E-04	200
114.0	8.1	86491	1.185E-04	3.673E-04	200
114.0	9.4	62809	8.604F-05	2.667E-04	200
114.0	10.8	33307	4.563F-05	1.414E-04	200
114.0	13.5	11116	1.523E-05	4.721E-05	200
114.0	16.2	3664	5.020E-06	1.556E-05	200
114.0	18.9	1811	1.933E-06	5.992E-06	200
114.0	21.6	527	7.22E-07	2.241E-06	200
114.0	24.3	282	3.871E-07	1.200E-06	200
114.0	27.0	119	1.632E-07	5.061E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
122.0	0.3	427	5.853E-07	1.814E-06	200
122.0	0.7	382	5.236E-07	1.623E-06	200
122.0	1.4	416	5.703E-07	1.768E-06	200
122.0	2.7	421	5.769E-07	1.788E-06	200
122.0	4.1	2819	3.863E-06	1.197E-05	200
122.0	5.4	8038	1.101E-05	3.413E-05	200
122.0	6.8	8151	1.117E-05	3.462E-05	200
122.0	8.1	11271	1.544E-05	4.787E-05	200
122.0	9.4	10577	1.449E-05	4.492E-05	200
122.0	10.8	9555	1.306E-05	4.058E-05	200
122.0	13.5	3366	4.612E-06	1.430E-05	200
122.0	16.2	1400	1.973E-06	6.116E-06	200
122.0	18.9	517	7.095E-07	2.200E-06	200
122.0	21.6	147	2.023E-07	6.270E-07	200
122.0	24.3	11	1.632E-08	5.061E-08	200
122.0	27.0	0	0.000E+00	0.000E+00	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
130.0	0.3	234	3.212E-07	9.95AE-07	200
130.0	0.7	353	4.848E-07	1.501E-06	200
130.0	1.4	273	3.747F-07	1.161E-06	200
130.0	2.7	210	2.885E-07	8.942E-07	200
130.0	4.1	135	1.857E-07	5.756E-07	200
130.0	5.4	106	1.454E-07	4.523E-07	200
130.0	6.8	300	4.111E-07	1.275E-06	200
130.0	8.1	7	9.947E-09	3.084E-08	200
130.0	9.4	4	6.631E-09	2.056E-08	200
130.0	10.8	14	1.989E-08	6.167E-08	200
130.0	13.5	60	8.285E-08	2.570E-07	200
130.0	16.2	21	2.984F-08	9.251E-08	200
130.0	18.9	7	9.947E-09	3.084E-08	200
130.0	21.6	0	0.000E+00	0.000E+00	200
130.0	24.3	13	1.866E-08	5.784E-08	200
130.0	27.0	1	2.332E-09	7.230E-09	200

TEST FT64 JULY 23, 1962 2201 TO 2236 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 3.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
70.0	11950	1.637E-05	5.075E-05	800	
72.0	9441	1.293E-05	4.010E-05	800	
74.0	6502	8.907E-06	2.761E-05	800	
76.0	6755	9.255E-06	2.869E-05	800	
78.0	4793	6.567E-06	2.036E-05	800	
80.0	4709	6.452E-06	2.000E-05	800	
82.0	3680	5.042E-06	1.563E-05	800	
84.0	3835	5.255E-06	1.629E-05	800	
86.0	4631	6.344E-06	1.967E-05	800	
88.0	3486	4.776E-06	1.480E-05	800	
90.0	4360	5.973E-06	1.852E-05	800	
92.0	7467	1.023E-05	3.171E-05	800	
94.0	9752	1.336E-05	4.141E-05	800	
96.0	17841	2.447E-05	7.585E-05	800	
98.0	35300	4.836E-05	1.499E-04	800	
100.0	35642	4.888E-05	1.515E-04	800	
102.0	12115	1.660E-05	5.145E-05	800	
104.0	42851	5.870E-05	1.820E-04	800	
106.0	24612	3.372E-05	1.045E-04	800	
108.0	5869	8.040E-06	2.493E-05	800	
110.0	22539	3.088E-05	9.572E-05	800	
112.0	17460	2.392E-05	7.415E-05	800	
114.0	7944	1.088E-05	3.374E-05	800	
116.0	1046	1.433E-06	4.443E-06	800	
118.0	125	1.720E-07	5.332E-07	800	
120.0	44	6.071E-08	1.882E-07	800	
122.0	59	8.094E-08	2.509E-07	800	
124.0	68	9.443E-08	2.927E-07	800	
126.0	96	1.315E-07	4.078E-07	800	
128.0	91	1.248E-07	3.868E-07	800	
130.0	73	1.012E-07	3.137E-07	800	
132.0	19	2.698E-08	8.364E-08	800	
134.0	0	0.000E+00	0.000E+00	800	
136.0	2	3.373E-09	1.046E-08	800	

CROSSWIND INTEGRATED= 1.16AE-02 SEC/SQ.M 3.620E-02 1/M

TOWER DATA FOLLOW....

TEST FT64 JULY 23, 1962 2201 TO 2236 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC U= 3.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
98.0	0.3	40997	5.616E-05	1.741E-04	800
98.0	0.5	37337	5.115E-05	1.586E-04	800
98.0	1.0	36178	4.956E-05	1.536E-04	800
98.0	2.1	35075	4.805E-05	1.490E-04	800
98.0	4.2	29933	4.101E-05	1.271E-04	800
98.0	6.3	25218	3.455E-05	1.071E-04	800
98.0	8.4	17583	2.409E-05	7.467E-05	800
98.0	10.5	13713	1.879E-05	5.823E-05	800
98.0	12.6	7550	1.034E-05	3.206E-05	800
98.0	14.7	6506	8.913E-06	2.763E-05	800
98.0	16.8	4650	6.376E-06	1.977E-05	800
98.0	21.0	2062	2.826E-06	8.759E-06	800
98.0	25.2	770	1.056E-06	3.273E-06	800
98.0	29.4	237	3.248E-07	1.007E-06	800
98.0	33.6	181	2.481E-07	7.693E-07	800
98.0	37.8	70	9.700E-08	3.007E-07	800
98.0	42.0	75	1.038E-07	3.217E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/C SEC/CU.M	FL/G 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/C SEC/CU.M	FL/G 1/SQ.M	DISTANCE METERS
106.0	0.3	30551	4.185E-05	1.297E-04	800	130.0	0.3	55	7.662E-08	2.375E-07	800
106.0	0.5	28285	3.875E-05	1.201E-04	800	130.0	0.5	93	1.277E-07	3.959E-07	800
106.0	1.0	25571	3.503E-05	1.086E-04	800	130.0	1.0	540	7.409E-07	2.297E-06	800
106.0	2.1	28559	3.912E-05	1.213E-04	800	130.0	2.1	60	8.335E-08	2.585E-07	800
106.0	4.2	24892	3.410E-05	1.057E-04	800	130.0	4.2	79	1.090E-07	3.380E-07	800
106.0	6.3	29315	4.016E-05	1.245E-04	800	130.0	6.3	35	4.811E-08	1.491E-07	800
106.0	8.4	25183	3.450E-05	1.069E-04	800	130.0	8.4	18	2.566E-08	7.954E-08	800
106.0	10.5	3535	4.843E-06	1.501E-05	800	130.0	10.5	39	5.452E-08	1.690E-07	800
106.0	12.6	28121	3.852E-05	1.194E-04	800	130.0	12.6	0	0.000E+00	0.000E+00	800
106.0	14.7	24616	3.372E-05	1.045E-04	800	130.0	14.7	18	2.566E-08	7.954E-08	800
106.0	16.8	18627	2.552E-05	7.910E-05	800	130.0	16.8	0	0.000E+00	0.000E+00	800
106.0	21.0	11423	1.565E-05	4.851E-05	800	130.0	21.0	44	6.094E-08	1.889E-07	800
106.0	25.2	4663	6.385E-06	1.980E-05	800	130.0	25.2	6	9.024E-09	2.797E-08	800
106.0	29.4	1567	2.146E-06	6.658E-06	800	130.0	29.4	1	2.256E-09	6.993E-09	800
106.0	33.6	615	8.437E-07	2.415E-06	800	130.0	33.6	1	2.256E-09	6.993E-09	800
106.0	37.8	214	2.933E-07	9.091E-07	800	130.0	37.8	1	2.256E-09	6.993E-09	800
106.0	42.0	88	1.218E-07	3.776E-07	800	130.0	42.0	13	1.805E-08	5.595E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/C SEC/CU.M	FL/G 1/SQ.M	DISTANCE METERS
114.0	0.3	5701	7.811E-06	2.421E-05	800
114.0	0.5	6932	9.496E-06	2.944E-05	800
114.0	1.0	7269	9.959E-06	3.087E-05	800
114.0	2.1	7805	1.069E-05	3.315E-05	800
114.0	4.2	17639	2.416E-05	7.491E-05	800
114.0	6.3	17590	2.410E-05	7.470E-05	800
114.0	8.4	11413	1.564E-05	4.847E-05	800
114.0	10.5	10114	1.386E-05	4.295E-05	800
114.0	12.6	6572	9.003E-06	2.791E-05	800
114.0	14.7	5525	7.565E-06	2.346E-05	800
114.0	16.8	3689	5.055E-06	1.567E-05	800
114.0	21.0	1898	2.601E-06	8.063E-06	800
114.0	25.2	469	6.429E-07	1.993E-06	800
114.0	29.4	283	3.880E-07	1.203E-06	800
114.0	33.6	158	2.166E-07	6.714E-07	800
114.0	37.8	39	5.414E-08	1.678E-07	800
114.0	42.0	23	3.158E-08	9.791E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/C SEC/CU.M	FL/G 1/SQ.M	DISTANCE METERS
122.0	0.3	74	1.022E-07	3.167E-07	800
122.0	0.5	18	2.550E-08	7.917E-08	800
122.0	1.0	28	3.849E-08	1.193E-07	800
122.0	2.1	105	1.443E-07	4.474E-07	800
122.0	4.2	103	1.411E-07	4.375E-07	800
122.0	6.3	86	1.187E-07	3.679E-07	800
122.0	8.4	145	1.985E-07	6.164E-07	800
122.0	10.5	306	4.202E-07	1.302E-06	800
122.0	12.6	700	9.590E-07	2.973E-06	800
122.0	14.7	681	9.333E-07	2.893E-06	800
122.0	16.8	767	1.052E-06	3.261E-06	800
122.0	21.0	433	5.933E-07	1.839E-06	800
122.0	25.2	93	1.286E-07	3.986E-07	800
122.0	29.4	177	2.436E-07	7.553E-07	800
122.0	33.6	85	1.173E-07	3.637E-07	800
122.0	37.8	31	4.288E-08	1.329E-07	800
122.0	42.0	6	9.024E-09	2.797E-08	800

TEST F164 JULY 23, 1962 2201 TO 2236 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 3.1 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM	E/O SEC/CM	FU/O 1/SQ.M	DISTANCE METERS
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70.0	1674	2.293E-06	7.110E-06	1600
71.0	3359	4.602E-06	1.427E-05	1600
72.0	3499	4.794E-06	1.486E-05	1600
73.0	4061	5.563E-06	1.725E-05	1600
74.0	4410	6.002E-06	1.873E-05	1600
75.0	3988	5.463E-06	1.694E-05	1600
76.0	4476	6.132E-06	1.901E-05	1600
77.0	3933	5.389E-06	1.671E-05	1600
78.0	3793	5.197E-06	1.611E-05	1600
79.0	2994	4.103E-06	1.272E-05	1600
80.0	2603	3.567E-06	1.106E-05	1600
81.0	2334	3.108E-06	9.914E-06	1600
82.0	1563	2.142E-06	6.641E-06	1600
83.0	1576	2.160E-06	6.697E-06	1600
84.0	2033	2.785E-06	8.635E-06	1600
85.0	1793	2.457E-06	7.618E-06	1600
86.0	1344	1.842E-06	5.711E-06	1600
87.0	1380	1.891E-06	5.862E-06	1600
88.0	1734	2.375E-06	7.364E-06	1600
89.0	1387	1.901E-06	5.894E-06	1600
90.0	839	1.151E-06	3.567E-06	1600
91.0	1455	1.994E-06	6.180E-06	1600
92.0	1309	1.794E-06	5.561E-06	1600
93.0	1616	2.214E-06	6.963E-06	1600
94.0	1752	2.401E-06	7.443E-06	1600
95.0	2222	3.044E-06	9.437E-06	1600
96.0	1973	2.703E-06	8.381E-06	1600
97.0	3069	4.205E-06	1.304E-05	1600
98.0	3715	5.089E-06	1.578E-05	1600
99.0	4218	5.778E-06	1.791E-05	1600
100.0	6045	8.366E-06	2.584E-05	1600
101.0	7125	9.760E-06	3.026E-05	1600
102.0	8967	1.228E-05	3.808E-05	1600
103.0	9644	1.322E-05	4.097E-05	1600
104.0	10716	1.468E-05	4.551E-05	1600
105.0	9218	1.263E-05	3.915E-05	1600
106.0	8825	1.209E-05	3.748E-05	1600
107.0	8756	1.199E-05	3.718E-05	1600
108.0	8610	1.180E-05	3.656E-05	1600
109.0	7367	1.007E-05	3.120E-05	1600
110.0	5826	7.982E-06	2.474E-05	1600
111.0	5306	7.270E-06	2.254E-05	1600
112.0	5088	6.970E-06	2.161E-05	1600
113.0	4315	5.912E-06	1.833E-05	1600
114.0	3649	4.999E-06	1.550E-05	1600
115.0	2585	3.541E-06	1.098E-05	1600
116.0	1719	2.355E-06	7.300E-06	1600
117.0	1086	1.489E-06	4.615E-06	1600
118.0	533	7.303E-07	2.264E-06	1600
119.0	149	2.050E-07	6.355E-07	1600
120.0	3	5.125E-09	1.589E-08	1600
121.0	5	7.687E-09	2.383E-08	1600
122.0	7	1.025E-08	3.177E-08	1600
123.0	13	1.794E-08	5.561E-08	1600
124.0	0	0.000E+00	0.000E+00	1600
125.0	0	0.000E+00	0.000E+00	1600
126.0	0	0.000E+00	0.000E+00	1600
126.0	20	2.819E-08	8.738E-08	1600
127.0	1	2.562E-09	7.944E-09	1600
128.0	9	1.281E-08	3.972E-08	1600
129.0	33	4.612E-08	1.430E-07	1600
130.0	9	1.281E-08	3.972E-08	1600
131.0	0	0.000E+00	0.000E+00	1600

CROSSWIND INTEGRATED= 7.336E-03 2.274E-02
SEC/90.M 1/M

TEST F164 JULY 23, 1962 2201 TO 2236 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1200M ARC SAMPLER HT 1.5M U= 3.1 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM	E/O SEC/CM	FU/O 1/SQ.M	DISTANCE METERS
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71.0	0	0.000E+00	0.000E+00	3200
72.0	21	2.920E-08	9.052E-08	3200
73.0	50	6.982E-08	2.165E-07	3200
74.0	79	1.092E-07	3.385E-07	3200
75.0	303	4.164E-07	1.291E-06	3200
76.0	572	7.846E-07	2.432E-06	3200
77.0	1087	1.490E-06	4.620E-06	3200
78.0	1594	2.185E-06	6.773E-06	3200
79.0	1677	2.298E-06	7.123E-06	3200
80.0	2239	3.068E-06	9.512E-06	3200
81.0	1799	2.465E-06	7.643E-06	3200
82.0	2024	2.773E-06	8.595E-06	3200
83.0	2152	2.949E-06	9.142E-06	3200
84.0	2130	2.919E-06	9.048E-06	3200
85.0	1727	2.366E-06	7.336E-06	3200
86.0	1359	1.862E-06	5.773E-06	3200
87.0	1355	1.857E-06	5.758E-06	3200
88.0	1387	1.900E-06	5.891E-06	3200
89.0	1357	1.860E-06	5.765E-06	3200
90.0	1235	1.692E-06	5.246E-06	3200
91.0	1089	1.493E-06	4.628E-06	3200
92.0	982	1.346E-06	4.172E-06	3200
93.0	1160	1.589E-06	4.927E-06	3200
94.0	835	1.145E-06	3.550E-06	3200
95.0	1085	1.487E-06	4.608E-06	3200
96.0	1104	1.513E-06	4.691E-06	3200
97.0	1070	1.466E-06	4.545E-06	3200
98.0	1319	1.808E-06	5.604E-06	3200
99.0	1413	1.936E-06	6.002E-06	3200
100.0	1123	1.539E-06	4.770E-06	3200
101.0	1324	1.814E-06	5.624E-06	3200
102.0	1412	1.935E-06	5.998E-06	3200
103.0	1232	1.688E-06	5.234E-06	3200
104.0	1129	1.548E-06	4.797E-06	3200
105.0	1264	1.732E-06	5.368E-06	3200
106.0	1370	1.870E-06	5.821E-06	3200
107.0	1405	1.926E-06	5.970E-06	3200
108.0	972	1.332E-06	4.128E-06	3200
109.0	1106	1.516E-06	4.699E-06	3200
110.0	1255	1.729E-06	5.333E-06	3200
111.0	907	1.243E-06	3.853E-06	3200
112.0	970	1.329E-06	4.120E-06	3200
113.0	997	1.366E-06	4.235E-06	3200
114.0	689	9.445E-07	2.928E-06	3200
115.0	669	9.052E-07	2.806E-06	3200
116.0	18	2.539E-08	7.871E-08	3200
117.0	61	8.379E-08	2.597E-07	3200
118.0	3	5.078E-09	1.574E-08	3200
119.0	2	3.809E-09	1.181E-08	3200
120.0	2	3.809E-09	1.181E-08	3200
121.0	2	3.809E-09	1.181E-08	3200
122.0	4	6.348E-09	1.968E-08	3200
123.0	17	2.412E-08	7.477E-08	3200
124.0	5	7.617E-09	2.361E-08	3200
125.0	0	0.000E+00	0.000E+00	3200
126.0	8	1.143E-08	3.542E-08	3200

CROSSWIND INTEGRATED= 3.991E-03 1.237E-02
SEC/90.M 1/M

30-SERIES EXPERIMENT: 65 (FT-65)
GROUND LEVEL AND TOWER SAMPLING 200 AND 800 M ARCS. GROUND LEVEL
SAMPLING ONLY 1600-12800 M ARCS.

TFST F165 JULY 24, 1962 2150 TO 2205 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
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68.0	3	4.376E-09	2.144E-08	200
70.0	250	3.391E-07	1.662E-06	200
72.0	148	2.013E-07	9.863E-07	200
74.0	315	4.266E-07	2.090E-06	200
76.0	182	2.472E-07	1.211E-06	200
78.0	93	1.269E-07	6.218E-07	200
80.0	146	2.516E-07	1.233E-06	200
82.0	192	2.603E-07	1.276E-06	200
84.0	229	3.107E-07	1.522E-06	200
86.0	241	3.260E-07	1.597E-06	200
88.0	192	2.603E-07	1.276E-06	200
90.0	245	2.779E-07	1.361E-06	200
92.0	367	4.964E-07	2.433E-06	200
94.0	886	1.090E-06	5.339E-06	200
96.0	1835	2.441E-06	1.216E-05	200
98.0	3749	5.047E-06	2.483E-05	200
100.0	7144	9.655E-06	4.731E-05	200
102.0	16910	2.245E-05	1.120E-04	200
104.0	27537	3.721E-05	1.823E-04	200
7 106.0	1	2.188E-09	1.072E-08	200
108.0	42128	5.693E-05	2.790E-04	200
110.0	37098	5.013E-05	2.457E-04	200
112.0	32577	4.402E-05	2.157E-04	200
114.0	25558	3.454E-05	1.692E-04	200
116.0	40503	5.473E-05	2.692E-04	200
118.0	36153	4.486E-05	2.394E-04	200
120.0	27588	3.728E-05	1.827E-04	200
122.0	26217	3.503E-05	1.734E-04	200
124.0	34568	5.212E-05	2.554E-04	200
126.0	63742	8.614E-05	4.221E-04	200
128.0	74825	1.011E-04	4.955E-04	200
130.0	72541	9.808E-05	4.806E-04	200
132.0	91954	1.243E-04	6.089E-04	200
134.0	90640	1.225E-04	6.002E-04	200
136.0	63580	8.592E-05	4.210E-04	200
138.0	32800	4.432E-05	2.172E-04	200
140.0	20340	2.749E-05	1.347E-04	200
142.0	4829	1.193E-05	5.847E-05	200
144.0	1311	1.772E-06	8.633E-06	200
146.0	205	2.779E-07	1.361E-06	200
148.0	58	7.876E-08	3.859E-07	200
150.0	8	1.094E-08	5.360E-08	200
152.0	19	2.625E-08	1.286E-07	200
154.0	3	4.376E-09	2.144E-08	200
156.0	8	1.094E-08	5.360E-08	200
158.0	0	0.000E+00	0.000E+00	200

CROSSWIND INTEGRATED= 4.377E-03 4.105E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TFST F165 JULY 24, 1962 2150 TO 2205 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 4.9 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
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98.0	0.3	7541	1.014E-05	4.994E-05	200
98.0	0.7	7084	9.573E-06	4.691E-05	200
98.0	1.4	2823	3.816E-06	1.870E-05	200
98.0	2.7	3368	4.552E-06	2.231E-05	200
98.0	4.1	3035	4.103E-06	2.010E-05	200
98.0	5.4	3088	4.174E-06	2.045E-05	200
98.0	6.8	3014	4.073E-06	1.996E-05	200
98.0	8.1	3031	4.097E-06	2.008E-05	200
98.0	9.4	2108	2.844E-06	1.396E-05	200
98.0	10.8	2274	3.074E-06	1.506E-05	200
98.0	13.5	1903	2.572E-06	1.260E-05	200
98.0	16.2	1344	1.817E-06	8.906E-06	200
98.0	18.9	1413	1.911E-06	9.363E-06	200
98.0	21.6	934	1.262E-06	6.185E-06	200
98.0	24.3	402	5.444E-07	2.668E-06	200
98.0	27.0	260	3.576E-07	1.752E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
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106.0	0.3	60112	8.123E-05	3.980E-04	200
106.0	0.7	68742	9.294E-05	4.552E-04	200
106.0	1.4	27434	3.707E-05	1.817E-04	200
106.0	2.7	25887	3.498E-05	1.714E-04	200
106.0	4.1	23815	3.218E-05	1.577E-04	200
106.0	5.4	24988	3.377E-05	1.655E-04	200
106.0	6.8	19600	2.656E-05	1.301E-04	200
106.0	8.1	21535	2.910E-05	1.424E-04	200
106.0	9.4	17471	2.361E-05	1.157E-04	200
106.0	10.8	17144	2.317E-05	1.135E-04	200
106.0	13.5	9204	1.244E-05	6.095E-05	200
106.0	16.2	8067	1.090E-05	5.302E-05	200
106.0	18.9	4467	6.037E-06	2.958E-05	200
106.0	21.6	3054	4.182E-06	2.049E-05	200
106.0	24.3	1161	1.570E-06	7.691E-06	200
106.0	27.0	758	1.025E-06	5.023E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
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114.0	0.3	17622	2.381E-05	1.167E-04	200
114.0	0.7	47750	6.453E-05	3.162E-04	200
114.0	1.4	16092	2.175E-05	1.066E-04	200
114.0	2.7	16847	2.277E-05	1.116E-04	200
114.0	4.1	22974	3.105E-05	1.521E-04	200
114.0	5.4	19670	2.658E-05	1.303E-04	200
114.0	6.8	12317	1.645E-05	8.156E-05	200
114.0	8.1	16555	2.237E-05	1.096E-04	200
114.0	9.4	15873	2.145E-05	1.051E-04	200
114.0	10.8	14219	1.922E-05	9.416E-05	200
114.0	13.5	10638	1.438E-05	7.045E-05	200
114.0	16.2	7188	9.714E-06	4.760E-05	200
114.0	18.9	5139	6.946E-06	3.403E-05	200
114.0	21.6	3501	4.732E-06	2.318E-05	200
114.0	24.3	1084	1.466E-06	7.183E-06	200
114.0	27.0	1280	1.730E-06	8.476E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM.	EL/O 1/SG.M	DISTANCE METERS
122.0	0.3	37661	5.085E-05	2.494E-04	200
122.0	0.7	45103	6.106E-05	2.992E-04	200
122.0	1.4	18643	2.519E-05	1.235E-04	200
122.0	2.7	20408	2.758E-05	1.351E-04	200
122.0	4.1	18026	2.436E-05	1.194E-04	200
122.0	5.4	19721	2.665E-05	1.306E-04	200
122.0	6.8	19492	2.634E-05	1.291E-04	200
122.0	8.1	19260	2.603E-05	1.275E-04	200
122.0	9.4	15350	2.074E-05	1.016E-04	200
122.0	10.8	14813	2.002E-05	9.809E-05	200
122.0	13.5	11240	1.515E-05	7.443E-05	200
122.0	16.2	8257	1.116E-05	5.468E-05	200
122.0	18.9	5596	7.562E-06	3.705E-05	200
122.0	21.6	3231	4.367E-06	2.140E-05	200
122.0	24.3	1223	1.653E-06	8.099E-06	200
122.0	27.0	1173	1.586E-06	7.769E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM.	EL/O 1/SG.M	DISTANCE METERS
130.0	0.3	92612	1.252E-04	6.132E-04	200
130.0	0.7	131692	1.780E-04	8.720E-04	200
130.0	1.4	50262	6.792E-05	3.328E-04	200
130.0	2.7	52612	7.110E-05	3.484E-04	200
130.0	4.1	51866	7.009E-05	3.434E-04	200
130.0	5.4	49644	6.704E-05	3.287E-04	200
130.0	6.8	53472	7.226E-05	3.541E-04	200
130.0	8.1	49457	6.683E-05	3.275E-04	200
130.0	9.4	6275	8.481E-06	4.156E-05	200
130.0	10.8	30439	4.113E-05	2.016E-04	200
130.0	13.5	25305	3.420E-05	1.676E-04	200
130.0	16.2	16519	2.232E-05	1.094E-04	200
130.0	18.9	13466	1.820E-05	8.917E-05	200
130.0	21.6	10009	1.353E-05	6.628E-05	200
130.0	24.3	3505	4.845E-06	2.374E-05	200
130.0	27.0	2416	3.266E-06	1.600E-05	200

TEST FT65 JULY 24, 1962 2150 TO 2205 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM.	EL/O 1/SG.M	DISTANCE METERS
70.0	20	2.751E-08	1.348E-07	800
72.0	9	1.270E-08	6.222E-08	800
74.0	0	0.000E+00	0.000E+00	800
76.0	37	5.079E-08	2.489E-07	800
78.0	54	7.407E-08	3.629E-07	800
80.0	67	9.100E-08	4.059E-07	800
82.0	62	8.465E-08	4.148E-07	800
84.0	18	2.540E-08	1.244E-07	800
86.0	45	6.137E-08	3.007E-07	800
88.0	25	3.386E-08	1.659E-07	800
90.0	29	4.071E-08	1.970E-07	800
92.0	64	8.677E-08	4.252E-07	800
94.0	81	1.100E-07	5.392E-07	800
96.0	61	8.254E-08	4.044E-07	800
98.0	108	1.460E-07	7.155E-07	800
100.0	117	1.587E-07	7.777E-07	800
102.0	479	6.476E-07	3.173E-06	800
104.0	2034	2.749E-06	1.347E-05	800
106.0	3536	4.779E-06	2.342E-05	800
108.0	1104	1.492E-06	7.311E-06	800
110.0	2926	3.955E-06	1.938E-05	800
112.0	1766	2.387E-06	1.170E-05	800
114.0	1800	2.434E-06	1.193E-05	800
116.0	2073	2.882E-06	1.373E-05	800
118.0	1570	2.123E-06	1.040E-05	800
120.0	1021	1.380E-06	6.761E-06	800
122.0	1279	1.729E-06	8.472E-06	800
124.0	2486	3.361E-06	1.647E-05	800
126.0	1943	5.329E-06	2.611E-05	800
128.0	6322	4.544E-06	4.186E-05	800
130.0	6298	8.512E-06	4.171E-05	800
132.0	8058	1.049E-05	5.336E-05	800
134.0	4264	5.743E-06	2.824E-05	800
136.0	5138	6.944E-06	3.402E-05	800
138.0	2103	2.497E-06	1.420E-05	800
140.0	471	6.370E-07	3.121E-06	800
142.0	48	6.561E-08	3.215E-07	800
144.0	6	8.465E-09	4.148E-08	800
146.0	0	0.000E+00	0.000E+00	800

CROSSWIND INTEGRATED= 2.208E-03 1.102E-02
SEC/SG.M 1/M

TOWER DATA FOLLOW....

TEST FT65 JULY 24, 1962 2150 TO 2205 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ARC U= 4.9 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM.	EL/O 1/SG.M	DISTANCE METERS
98.0	0.3	65	8.868E-08	4.346E-07	800
98.0	0.5	210	2.845E-07	1.394E-06	800
98.0	1.0	79	1.077E-07	5.277E-07	800
98.0	2.1	25	3.500E-08	1.715E-07	800
98.0	4.2	19	2.692E-08	1.319E-07	800
98.0	6.3	9	1.344E-08	6.596E-08	800
98.0	8.4	20	2.827E-08	1.385E-07	800
98.0	10.5	0	1.346E-09	6.596E-09	800
98.0	12.6	13	1.885E-08	9.235E-08	800
98.0	14.7	56	7.673E-08	3.760E-07	800
98.0	16.8	5	8.077E-09	3.958E-08	800
98.0	21.0	3	5.385E-09	2.638E-08	800
98.0	25.2	6	9.420E-09	4.616E-08	800
98.0	29.4	0	0.000E+00	0.000E+00	800
98.0	33.6	0	8.563E-10	4.196E-09	800
98.0	37.8	0	0.000E+00	0.000E+00	800
98.0	42.0	0	0.000E+00	0.000E+00	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	F/Q SEC/CU,M	EL/Q 1/SQ,M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	F/Q SEC/CU,M	EL/Q 1/SQ,M	DISTANCE METERS
106.0	0.3	4952	6.692E-06	3.279E-05	800	130.0	0.3	7372	9.962E-06	4.881E-05	800
106.0	0.5	5539	7.486E-06	3.668E-05	800	130.0	0.5	6819	9.216E-06	4.516E-05	800
106.0	1.0	2399	3.243E-06	1.589E-05	800	130.0	1.0	3708	5.012E-06	2.456E-05	800
106.0	2.1	2769	3.747E-06	1.834E-05	800	130.0	2.1	4108	5.552E-06	2.720E-05	800
106.0	4.2	2788	3.768E-06	1.846E-05	800	130.0	4.2	5290	7.149E-06	3.503E-05	800
106.0	6.3	2753	3.721E-06	1.823E-05	800	130.0	6.3	5497	7.429E-06	3.640E-05	800
106.0	8.4	2728	3.687E-06	1.807E-05	800	130.0	8.4	5172	6.989E-06	3.425E-05	800
106.0	10.5	2688	3.633E-06	1.780E-05	800	130.0	10.5	4749	6.418E-06	3.145E-05	800
106.0	12.6	2664	3.601E-06	1.764E-05	800	130.0	12.6	4617	6.239E-06	3.057E-05	800
106.0	14.7	2222	3.003E-06	1.472E-05	800	130.0	14.7	5219	7.054E-06	3.456E-05	800
106.0	16.8	2650	3.582E-06	1.755E-05	800	130.0	16.8	4568	6.173E-06	3.025E-05	800
106.0	21.0	1926	2.603E-06	1.276E-05	800	130.0	21.0	4840	6.541E-06	3.205E-05	800
106.0	25.2	1150	1.555E-06	7.620E-06	800	130.0	25.2	2789	3.770E-06	1.847E-05	800
106.0	29.4	734	9.925E-07	4.863E-06	800	130.0	29.4	2577	3.484E-06	1.707E-05	800
106.0	33.6	529	7.150E-07	3.509E-06	800	130.0	33.6	1681	2.272E-06	1.113E-05	800
106.0	37.8	521	7.006E-07	3.453E-06	800	130.0	37.8	1631	2.204E-06	1.080E-05	800
106.0	42.0	488	6.054E-07	2.967E-06	800	130.0	42.0	1200	1.622E-06	7.947E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	F/Q SEC/CU,M	EL/Q 1/SQ,M	DISTANCE METERS
114.0	0.3	1810	2.446E-06	1.199E-05	800
114.0	0.5	2269	3.067E-06	1.503E-05	800
114.0	1.0	929	1.256E-06	6.154E-06	800
114.0	2.1	996	1.348E-06	6.596E-06	800
114.0	4.2	1128	1.525E-06	7.473E-06	800
114.0	6.3	1660	2.244E-06	1.100E-05	800
114.0	8.4	1236	1.671E-06	8.186E-06	800
114.0	10.5	1720	2.325E-06	1.139E-05	800
114.0	12.6	1462	1.976E-06	9.683E-06	800
114.0	14.7	1441	1.948E-06	9.545E-06	800
114.0	16.8	1456	1.968E-06	9.644E-06	800
114.0	21.0	1503	2.031E-06	9.954E-06	800
114.0	25.2	844	1.141E-06	5.593E-06	800
114.0	29.4	823	1.113E-06	5.455E-06	800
114.0	33.6	681	9.206E-07	4.511E-06	800
114.0	37.8	489	6.611E-07	3.239E-06	800
114.0	42.0	363	4.907E-07	2.404E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	F/Q SEC/CU,M	EL/Q 1/SQ,M	DISTANCE METERS
122.0	0.3	1875	2.535E-06	1.242E-05	800
122.0	0.5	1941	2.624E-06	1.286E-05	800
122.0	1.0	903	1.342E-06	6.576E-06	800
122.0	2.1	1053	1.424E-06	6.979E-06	800
122.0	4.2	1083	1.465E-06	7.177E-06	800
122.0	6.3	1016	1.373E-06	6.728E-06	800
122.0	8.4	1155	1.562E-06	7.652E-06	800
122.0	10.5	1369	1.851E-06	9.070E-06	800
122.0	12.6	1365	1.846E-06	9.043E-06	800
122.0	14.7	1441	1.948E-06	9.545E-06	800
122.0	16.8	1136	1.536E-06	7.526E-06	800
122.0	21.0	1080	1.461E-06	7.157E-06	800
122.0	25.2	676	9.146E-07	4.481E-06	800
122.0	29.4	561	7.587E-07	3.718E-06	800
122.0	33.6	471	6.371E-07	3.122E-06	800
122.0	37.8	248	3.357E-07	1.645E-06	800
122.0	42.0	250	3.333E-07	1.657E-06	800

TEST F165 JULY 24, 1962 2150 TO 2205 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M UW 4.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/O SEC/CM	FU/O 1/80,M	DISTANCE METERS
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70.0	3	5.161E-09	2.529E-08	1600
70.0	7	1.032E-08	5.058E-08	1600
76.0	7	1.032E-08	5.058E-08	1600
77.0	10	1.376E-08	6.744E-08	1600
78.0	8	1.204E-08	5.901E-08	1600
79.0	10	1.376E-08	6.744E-08	1600
80.0	12	1.720E-08	8.430E-08	1600
81.0	5	6.882E-09	3.372E-08	1600
82.0	12	1.720E-08	8.430E-08	1600
83.0	17	2.409E-08	1.180E-07	1600
84.0	6	8.602E-09	4.215E-08	1600
85.0	22	3.097E-08	1.517E-07	1600
86.0	3	5.161E-09	2.529E-08	1600
87.0	8	1.204E-08	5.901E-08	1600
88.0	2	3.441E-09	1.686E-08	1600
89.0	42	5.677E-08	2.782E-07	1600
90.0	7	1.032E-08	5.058E-08	1600
91.0	5	6.882E-09	3.372E-08	1600
92.0	22	3.097E-08	1.517E-07	1600
93.0	20	2.743E-08	1.349E-07	1600
94.0	28	3.785E-08	1.855E-07	1600
95.0	19	2.581E-08	1.264E-07	1600
96.0	14	1.892E-08	9.273E-08	1600
97.0	19	2.581E-08	1.264E-07	1600
98.0	28	3.785E-08	1.855E-07	1600
99.0	31	4.301E-08	2.107E-07	1600
100.0	10	1.376E-08	6.744E-08	1600
101.0	26	3.613E-08	1.770E-07	1600
102.0	128	1.738E-07	8.514E-07	1600
103.0	417	5.643E-07	2.765E-06	1600
104.0	487	6.589E-07	3.229E-06	1600
105.0	982	1.328E-06	6.508E-06	1600
106.0	1423	1.923E-06	9.425E-06	1600
107.0	1506	2.035E-06	9.973E-06	1600
108.0	1354	1.830E-06	8.969E-06	1600
109.0	34	4.645E-08	2.276E-07	1600
110.0	1247	1.686E-06	8.261E-06	1600
111.0	831	1.123E-06	5.505E-06	1600
112.0	622	8.413E-07	4.122E-06	1600
113.0	556	7.518E-07	3.684E-06	1600
114.0	577	7.811E-07	3.827E-06	1600
115.0	441	5.970E-07	2.925E-06	1600
116.0	427	5.780E-07	2.832E-06	1600
117.0	343	4.645E-07	2.276E-06	1600
118.0	381	5.161E-07	2.529E-06	1600
119.0	436	5.901E-07	2.891E-06	1600
120.0	11	1.548E-08	7.597E-08	1600
121.0	353	8.783E-07	2.344E-06	1600
122.0	276	3.743E-07	1.829E-06	1600
123.0	254	3.441E-07	1.686E-06	1600
124.0	342	4.628E-07	2.268E-06	1600
125.0	305	4.129E-07	2.023E-06	1600
126.0	565	7.639E-07	3.743E-06	1600
127.0	903	1.221E-06	5.985E-06	1600
128.0	1163	1.572E-06	7.705E-06	1600
129.0	168	2.271E-07	1.113E-06	1600
130.0	497	6.727E-07	3.296E-06	1600
131.0	1290	1.744E-06	8.508E-06	1600
132.0	753	1.018E-06	4.990E-06	1600
133.0	1721	2.326E-06	1.140E-05	1600
134.0	1376	1.860E-06	9.113E-06	1600
135.0	1638	2.214E-06	1.085E-05	1600
136.0	2016	2.725E-06	1.335E-05	1600
137.0	2425	3.277E-06	1.606E-05	1600
138.0	2003	2.708E-06	1.327E-05	1600
139.0	1628	2.200E-06	1.078E-05	1600
140.0	309	4.181E-07	2.088E-06	1600
141.0	588	7.815E-07	3.633E-06	1600
142.0	322	4.353E-07	2.133E-06	1600
143.0	24	3.269E-08	1.602E-07	1600
144.0	15	2.064E-08	1.012E-07	1600
145.0	0	0.000E+00	0.000E+00	1600

CROSSWIND INTEGRATED= 1.194E-03 5.852E-03
SEC/80,M 1/M

TEST F165 JULY 24, 1962 2150 TO 2205 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M UW 4.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/O SEC/CM	FU/O 1/80,M	DISTANCE METERS
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80.0	0	1.058E-09	5.185E-09	3200
81.0	0	0.000E+00	0.000E+00	3200
82.0	0	1.058E-09	5.185E-09	3200
83.0	2	3.174E-09	1.555E-08	3200
84.0	15	2.114E-08	1.037E-07	3200
85.0	9	1.270E-08	6.221E-08	3200
86.0	4	6.348E-09	3.111E-08	3200
87.0	3	5.290E-09	2.592E-08	3200
88.0	4	6.348E-09	3.111E-08	3200
89.0	3	5.290E-09	2.592E-08	3200
90.0	1	2.114E-09	1.037E-08	3200
91.0	1	2.114E-09	1.037E-08	3200
92.0	1	2.114E-09	1.037E-08	3200
93.0	3	5.290E-09	2.592E-08	3200
94.0	12	1.693E-08	8.295E-08	3200
95.0	6	8.465E-09	4.188E-08	3200
96.0	7	9.523E-09	4.666E-08	3200
97.0	6	1.058E-09	5.185E-09	3200
98.0	3	5.290E-09	2.592E-08	3200
99.0	0	0.000E+00	0.000E+00	3200
100.0	9	1.270E-08	6.221E-08	3200
101.0	9	1.270E-08	6.221E-08	3200
102.0	46	4.370E-08	3.111E-07	3200
103.0	119	1.686E-07	7.880E-07	3200
104.0	155	2.108E-07	1.032E-06	3200
105.0	251	3.396E-07	1.664E-06	3200
106.0	411	5.555E-07	2.722E-06	3200
107.0	452	6.114E-07	2.997E-06	3200
108.0	497	6.719E-07	3.292E-06	3200
109.0	425	5.745E-07	2.815E-06	3200
110.0	301	4.074E-07	1.966E-06	3200
111.0	189	2.561E-07	1.255E-06	3200
112.0	183	1.936E-07	9.488E-07	3200
113.0	122	1.661E-07	8.140E-07	3200
114.0	122	1.651E-07	8.088E-07	3200
115.0	122	1.651E-07	8.088E-07	3200
116.0	0	1.058E-09	5.185E-09	3200
117.0	64	8.676E-08	4.251E-07	3200
118.0	92	1.249E-07	6.118E-07	3200
119.0	100	1.905E-07	9.332E-07	3200
120.0	117	1.587E-07	7.777E-07	3200
121.0	115	1.564E-07	7.673E-07	3200
122.0	158	2.144E-07	1.052E-06	3200
123.0	210	2.846E-07	1.395E-06	3200
124.0	372	5.036E-07	2.468E-06	3200
125.0	447	8.052E-07	2.966E-06	3200
126.0	479	6.475E-07	3.173E-06	3200
127.0	426	5.746E-07	2.826E-06	3200
128.0	212	2.847E-07	1.405E-06	3200
129.0	191	2.582E-07	1.265E-06	3200
130.0	204	2.742E-07	1.353E-06	3200
131.0	437	5.915E-07	2.898E-06	3200
132.0	596	8.062E-07	3.951E-06	3200
133.0	461	6.243E-07	3.059E-06	3200
134.0	322	4.359E-07	2.136E-06	3200
135.0	144	1.957E-07	9.591E-07	3200
136.0	121	1.440E-07	8.036E-07	3200
137.0	29	4.021E-08	1.970E-07	3200
138.0	2	3.174E-09	1.555E-08	3200
139.0	2	3.174E-09	1.555E-08	3200
140.0	0	1.058E-09	5.185E-09	3200

CROSSWIND INTEGRATED= 6.656E-04 3.262E-03
SEC/80,M 1/M

TEST F165 JULY 24, 1967 2150 TO 2205 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 12000M ARC SAMPLER HT 1.5M U* 4.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE UM-SEC/CU.M X10E46	F/O SEC/CU.M	FU/G 1/SG.M	DISTANCE METERS
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105.0	0	1.104E-09	5.410E-09	12000
106.0	8	1.104E-08	5.410E-08	12000
107.0	38	5.152E-08	2.525E-07	12000
108.0	81	5.630E-08	2.759E-07	12000
P 109.0	89	6.628E-08	3.206E-07	12000
110.0	56	7.581E-08	3.715E-07	12000
* 111.0	50	6.771E-08	3.318E-07	12000
P 112.0	54	7.397E-08	3.620E-07	12000
113.0	60	8.133E-08	3.905E-07	12000
114.0	60	8.685E-08	4.256E-07	12000
115.0	103	1.395E-07	6.834E-07	12000
P 116.0	78	1.060E-07	5.193E-07	12000
117.0	69	9.458E-08	4.634E-07	12000
118.0	63	8.611E-08	4.220E-07	12000
119.0	59	8.059E-08	3.949E-07	12000
120.0	49	6.698E-08	3.282E-07	12000
121.0	44	5.962E-08	2.921E-07	12000
122.0	31	4.232E-08	2.074E-07	12000
123.0	16	2.208E-08	1.082E-07	12000
124.0	27	3.680E-08	1.803E-07	12000
125.0	15	2.098E-08	1.028E-07	12000
126.0	8	1.178E-08	5.770E-08	12000
127.0	1	1.800E-09	9.016E-09	12000

CROSSKTD INTEGRATED= 2.996E-04 1.468E+03
 SEC/SG.M 1/M

30-SERIES EXPERIMENT: 66 (FT-66)
GROUND LEVEL AND TOWER SAMPLING 200 AND 800 M ARCS. GROUND LEVEL
SAMPLING ONLY 1600-12800 M ARCS. DUST AND CARBON DEPOSITS ON THE
FILTERS COLLECTED FROM THE 12800 M ARC.

TEST FT66 JULY 25, 1962 2213 TO 2313 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 3.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
68.0	43	3.955E-06	1.008E-07	200
70.0	121	8.487E-08	2.801E-07	200
72.0	99	6.959E-08	2.297E-07	200
74.0	113	7.978E-08	2.633E-07	200
76.0	137	9.675E-08	3.193E-07	200
78.0	67	4.753E-08	1.568E-07	200
80.0	186	1.387E-07	4.313E-07	200
82.0	363	2.546E-07	8.402E-07	200
84.0	940	6.874E-07	2.269E-06	200
86.0	7825	5.488E-06	1.811E-05	200
88.0	24032	1.645E-05	5.561E-05	200
90.0	35289	2.475E-05	8.167E-05	200
92.0	33239	2.311E-05	7.692E-05	200
94.0	53275	3.736E-05	1.233E-04	200
96.0	43436	3.086E-05	1.005E-04	200
98.0	37426	2.625E-05	8.661E-05	200
100.0	40312	2.827E-05	9.329E-05	200
102.0	52699	3.696E-05	1.220E-04	200
104.0	79577	5.230E-05	1.726E-04	200
106.0	84724	5.941E-05	1.961E-04	200
108.0	96802	6.788E-05	2.240E-04	200
110.0	84303	5.912E-05	1.951E-04	200
112.0	74045	5.193E-05	1.714E-04	200
114.0	58022	4.069E-05	1.343E-04	200
116.0	110175	7.726E-05	2.550E-04	200
118.0	101033	7.085E-05	2.338E-04	200
120.0	102318	7.175E-05	2.368E-04	200
122.0	104501	7.398E-05	2.418E-04	200
124.0	113278	7.944E-05	2.621E-04	200
126.0	103981	7.292E-05	2.406E-04	200
128.0	88190	6.184E-05	2.041E-04	200
130.0	87023	6.103E-05	2.014E-04	200
132.0	139508	9.783E-05	3.228E-04	200
134.0	205709	1.443E-04	4.760E-04	200
136.0	270871	1.900E-04	6.268E-04	200
138.0	240831	1.689E-04	5.573E-04	200
140.0	257677	1.807E-04	5.963E-04	200
142.0	217431	1.525E-04	5.032E-04	200
144.0	116235	8.151E-05	2.690E-04	200
146.0	83090	5.827E-05	1.923E-04	200
148.0	33328	2.477E-05	8.176E-05	200
150.0	13549	9.502E-06	3.136E-05	200
152.0	3594	2.521E-06	8.318E-06	200
154.0	561	3.938E-07	1.299E-06	200
156.0	169	1.188E-07	3.921E-07	200
158.0	50	3.564E-08	1.176E-07	200

CROSSWIND INTEGRATED= 1.565E-02 5.165E-02
SEC/90.M 1/M

TOWER DATA FOLLOW....

TEST FT66 JULY 25, 1962 2213 TO 2313 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 3.3 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.3	33462	2.387E-05	7.744E-05	200
98.0	0.7	41599	2.917E-05	9.627E-05	200
98.0	1.4	21453	1.504E-05	4.965E-05	200
98.0	2.7	22894	1.606E-05	5.298E-05	200
98.0	4.1	22562	1.582E-05	5.221E-05	200
98.0	5.4	21307	1.494E-05	4.931E-05	200
98.0	6.8	19339	1.356E-05	4.476E-05	200
98.0	8.1	18269	1.281E-05	4.228E-05	200
98.0	9.4	16446	1.153E-05	3.806E-05	200
98.0	10.8	14311	1.004E-05	3.312E-05	200
98.0	13.5	9307	6.527E-06	2.158E-05	200
98.0	16.2	6896	4.836E-06	1.596E-05	200
98.0	18.9	4661	3.269E-06	1.079E-05	200
98.0	21.6	2704	1.896E-06	6.258E-06	200
98.0	24.3	1426	1.001E-06	3.302E-06	200
98.0	27.0	823	5.773E-07	1.905E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.3	89131	6.250E-05	2.063E-04	200
106.0	0.7	107158	7.515E-05	2.480E-04	200
106.0	1.4	51330	3.600E-05	1.188E-04	200
106.0	2.7	50286	3.526E-05	1.164E-04	200
106.0	4.1	45936	3.221E-05	1.063E-04	200
106.0	5.4	46111	3.234E-05	1.067E-04	200
106.0	6.8	38629	2.709E-05	8.939E-05	200
106.0	8.1	34787	2.440E-05	8.050E-05	200
106.0	9.4	29049	2.037E-05	6.723E-05	200
106.0	10.8	30083	2.110E-05	6.962E-05	200
106.0	13.5	20415	1.432E-05	4.725E-05	200
106.0	16.2	10036	7.038E-06	2.323E-05	200
106.0	18.9	8013	5.619E-06	1.854E-05	200
106.0	21.6	5772	3.908E-06	1.290E-05	200
106.0	24.3	2363	1.658E-06	5.470E-06	200
106.0	27.0	1227	8.666E-07	2.840E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.3	51300	3.597E-05	1.187E-04	200
114.0	0.7	65138	4.568E-05	1.507E-04	200
114.0	1.4	36862	2.585E-05	8.531E-05	200
114.0	2.7	38398	2.693E-05	8.886E-05	200
114.0	4.1	40699	2.854E-05	9.419E-05	200
114.0	5.4	28702	2.013E-05	6.682E-05	200
114.0	6.8	33273	2.333E-05	7.700E-05	200
114.0	8.1	33652	2.360E-05	7.788E-05	200
114.0	9.4	28073	1.969E-05	6.497E-05	200
114.0	10.8	29875	2.095E-05	6.914E-05	200
114.0	13.5	22011	1.544E-05	5.094E-05	200
114.0	16.2	15225	1.068E-05	3.523E-05	200
114.0	18.9	8999	6.311E-06	2.083E-05	200
114.0	21.6	7762	5.444E-06	1.796E-05	200
114.0	24.3	3092	2.169E-06	7.156E-06	200
114.0	27.0	1901	1.333E-06	4.400E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SEC/M	DISTANCE METERS
122.0	0.3	107467	7.536E-05	2.487E-04	200
122.0	0.7	129622	9.090E-05	3.000E-04	200
122.0	1.4	63911	4.482E-05	1.479E-04	200
122.0	2.7	69050	9.842E-05	1.598E-04	200
122.0	4.1	59273	4.157E-05	1.372E-04	200
122.0	5.4	60856	4.268E-05	1.408E-04	200
122.0	6.8	30977	2.172E-05	7.169E-05	200
122.0	8.1	55190	3.870E-05	1.277E-04	200
122.0	9.4	48368	3.392E-05	1.119E-04	200
122.0	10.8	41364	2.901E-05	9.572E-05	200
122.0	13.5	25898	1.816E-05	5.993E-05	200
122.0	16.2	14021	9.833E-06	3.245E-05	200
122.0	18.9	11351	7.960E-06	2.627E-05	200
122.0	21.6	6724	4.716E-06	1.556E-05	200
122.0	24.3	2740	1.922E-06	6.383E-06	200
122.0	27.0	1007	7.066E-07	2.332E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SEC/M	DISTANCE METERS
130.0	0.3	96767	6.786E-05	2.239E-04	200
130.0	0.7	118496	8.338E-05	2.751E-04	200
130.0	1.4	49277	3.456E-05	1.140E-04	200
130.0	2.7	55523	3.894E-05	1.285E-04	200
130.0	4.1	50889	3.569E-05	1.178E-04	200
130.0	5.4	49898	3.499E-05	1.155E-04	200
130.0	6.8	56367	3.953E-05	1.304E-04	200
130.0	8.1	50654	3.552E-05	1.172E-04	200
130.0	9.4	8439	5.918E-06	1.953E-05	200
130.0	10.8	33434	2.345E-05	7.737E-05	200
130.0	13.5	31229	2.190E-05	7.227E-05	200
130.0	16.2	20073	1.408E-05	4.645E-05	200
130.0	18.9	10967	7.677E-06	2.533E-05	200
130.0	21.6	8095	5.677E-06	1.873E-05	200
130.0	24.3	3504	2.458E-06	8.111E-06	200
130.0	27.0	1768	1.240E-06	4.093E-06	200

TEST FT66 JULY 29, 1962 2213 TO 2313 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ARC SAMPLER MT 1.5M U= 3.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SEC/M	DISTANCE METERS
70.0	9	6.568E-09	2.167E-08	800
72.0	28	1.970E-08	6.502E-08	800
74.0	25	1.806E-08	5.960E-08	800
76.0	37	2.627E-08	8.669E-08	800
78.0	0	0.000E+00	0.000E+00	800
80.0	39	2.791E-08	9.211E-08	800
82.0	9	6.568E-09	2.167E-08	800
84.0	7	4.926E-09	1.625E-08	800
86.0	16	1.149E-08	3.793E-08	800
88.0	107	7.553E-08	2.492E-07	800
90.0	641	4.778E-07	1.577E-06	800
92.0	6176	4.331E-06	1.429E-05	800
94.0	9297	6.520E-06	2.152E-05	800
96.0	4446	3.118E-06	1.029E-05	800
98.0	2921	2.049E-06	6.762E-06	800
Z 100.0	948	6.650E-07	2.194E-06	800
Z 102.0	461	3.235E-07	1.067E-06	800
104.0	4750	3.331E-06	1.099E-05	800
106.0	8342	5.850E-06	1.931E-05	800
Z 108.0	2271	1.593E-06	5.256E-06	800
110.0	2992	2.098E-06	6.924E-06	800
112.0	4432	3.108E-06	1.026E-05	800
114.0	4429	3.106E-06	1.025E-05	800
116.0	4401	3.115E-06	1.028E-05	800
118.0	4289	3.088E-06	9.976E-06	800
120.0	4764	3.341E-06	1.103E-05	800
122.0	8316	5.832E-06	1.925E-05	800
124.0	9573	6.714E-06	2.216E-05	800
126.0	5303	3.719E-06	1.227E-05	800
128.0	4043	2.836E-06	9.357E-06	800
130.0	5642	3.957E-06	1.306E-05	800
132.0	10027	7.032E-06	2.321E-05	800
134.0	10516	7.985E-06	2.503E-05	800
136.0	13891	9.741E-06	3.215E-05	800
138.0	10603	7.436E-06	2.454E-05	800
140.0	22575	1.583E-05	5.224E-05	800
142.0	17508	1.228E-05	4.052E-05	800
144.0	8946	6.274E-06	2.070E-05	800
146.0	3895	2.732E-06	9.016E-06	800
148.0	964	6.765E-07	2.232E-06	800
150.0	91	6.403E-08	2.113E-07	800
152.0	7	4.926E-09	1.625E-08	800
154.0	0	0.000E+00	0.000E+00	800

CROSSWIND INTEGRATED= 3.880E-03 1.280E-02
SEC/SEC/M 1/M

TOWER DATA FOLLOW...

TEST FT66 JULY 29, 1962 2213 TO 2313 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ARC U= 3.3 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SEC/M	DISTANCE METERS
98.0	0.3	2470	1.732E-06	5.717E-06	800
98.0	0.5	3014	2.114E-06	6.975E-06	800
98.0	1.0	1522	1.068E-06	3.523E-06	800
98.0	2.1	1737	1.219E-06	4.021E-06	800
98.0	4.2	1678	1.177E-06	3.884E-06	800
98.0	6.3	1815	1.273E-06	4.202E-06	800
98.0	8.4	1906	1.337E-06	4.412E-06	800
98.0	10.5	1729	1.213E-06	4.002E-06	800
98.0	12.6	1591	1.116E-06	3.684E-06	800
98.0	14.7	1513	1.062E-06	3.504E-06	800
98.0	16.8	1215	8.521E-07	2.812E-06	800
98.0	21.0	1273	8.929E-07	2.946E-06	800
98.0	25.2	621	4.360E-07	1.439E-06	800
98.0	29.4	594	4.172E-07	1.377E-06	800
98.0	33.6	512	3.595E-07	1.187E-06	800
98.0	37.8	321	2.254E-07	7.440E-07	800
98.0	42.0	318	2.235E-07	7.376E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM,M X10E+6	F/Q SEC/CM,M	EU/Q 1/SQ,M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM,M X10E+6	F/Q SEC/CM,M	EU/Q 1/SQ,M	DISTANCE METERS
106.0	0.3	8870	5.940E-06	1.960E-05	800	130.0	0.3	5257	3.687E-06	1.217E-05	800
106.0	0.5	8846	6.204E-06	2.047E-05	800	130.0	0.5	4365	3.062E-06	1.010E-05	800
106.0	1.0	3171	2.224E-06	7.338E-06	800	130.0	1.0	3349	2.377E-06	7.843E-06	800
106.0	2.1	4908	3.442E-06	1.136E-05	800	130.0	2.1	3230	2.265E-06	7.476E-06	800
106.0	4.2	4948	3.470E-06	1.145E-05	800	130.0	4.2	3648	2.558E-06	8.843E-06	800
106.0	6.3	6102	4.280E-06	1.412E-05	800	130.0	6.3	3469	2.433E-06	8.030E-06	800
106.0	8.4	5386	3.777E-06	1.246E-05	800	130.0	8.4	3753	2.632E-06	8.685E-06	800
106.0	10.5	6068	4.256E-06	1.404E-05	800	130.0	10.5	3206	2.249E-06	7.420E-06	800
106.0	12.6	5986	4.198E-06	1.385E-05	800	130.0	12.6	2988	2.096E-06	6.916E-06	800
106.0	14.7	4683	3.284E-06	1.088E-05	800	130.0	14.7	3146	2.207E-06	7.283E-06	800
106.0	16.8	3910	2.742E-06	9.049E-06	800	130.0	16.8	3646	2.557E-06	8.800E-06	800
106.0	21.0	3716	2.606E-06	8.600E-06	800	130.0	21.0	2747	1.927E-06	6.358E-06	800
106.0	25.2	2417	1.695E-06	5.595E-06	800	130.0	25.2	1340	9.400E-07	3.102E-06	800
106.0	29.4	1585	1.112E-06	3.669E-06	800	130.0	29.4	1280	8.979E-07	2.963E-06	800
106.0	33.6	1516	1.064E-06	3.510E-06	800	130.0	33.6	836	5.863E-07	1.935E-06	800
106.0	37.8	880	6.174E-07	2.037E-06	800	130.0	37.8	835	5.856E-07	1.933E-06	800
106.0	42.0	566	3.971E-07	1.310E-06	800	130.0	42.0	291	2.047E-07	6.756E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM,M X10E+6	F/Q SEC/CM,M	EU/Q 1/SQ,M	DISTANCE METERS
114.0	0.3	4909	3.443E-06	1.136E-05	800
114.0	0.5	4240	2.987E-06	9.859E-06	800
114.0	1.0	2452	1.720E-06	5.677E-06	800
114.0	2.1	2188	1.533E-06	5.060E-06	800
114.0	4.2	2954	2.072E-06	6.837E-06	800
114.0	6.3	3803	2.387E-06	7.876E-06	800
114.0	8.4	2513	1.763E-06	5.818E-06	800
114.0	10.5	3474	2.436E-06	8.040E-06	800
114.0	12.6	3212	2.253E-06	7.433E-06	800
114.0	14.7	3013	2.113E-06	6.975E-06	800
114.0	16.8	3519	2.468E-06	8.145E-06	800
114.0	21.0	2617	1.835E-06	6.057E-06	800
114.0	25.2	1638	1.149E-06	3.793E-06	800
114.0	29.4	1802	1.264E-06	4.171E-06	800
114.0	33.6	699	4.904E-07	1.618E-06	800
114.0	37.8	762	5.345E-07	1.764E-06	800
114.0	42.0	650	4.561E-07	1.505E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM,M X10E+6	F/Q SEC/CM,M	EU/Q 1/SQ,M	DISTANCE METERS
122.0	0.3	7911	5.548E-06	1.831E-05	800
122.0	0.5	8094	5.678E-06	1.873E-05	800
122.0	1.0	3312	2.323E-06	7.666E-06	800
122.0	2.1	4588	3.218E-06	1.062E-05	800
122.0	4.2	5784	4.056E-06	1.339E-05	800
122.0	6.3	5063	3.551E-06	1.172E-05	800
122.0	8.4	5026	3.525E-06	1.163E-05	800
122.0	10.5	4719	3.309E-06	1.092E-05	800
122.0	12.6	4185	2.935E-06	9.685E-06	800
122.0	14.7	4659	3.268E-06	1.078E-05	800
122.0	16.8	3499	2.454E-06	8.099E-06	800
122.0	21.0	3158	2.215E-06	7.309E-06	800
122.0	25.2	1535	1.077E-06	3.553E-06	800
122.0	29.4	1377	9.659E-07	3.188E-06	800
122.0	33.6	836	5.863E-07	1.935E-06	800
122.0	37.8	859	6.025E-07	1.988E-06	800
122.0	42.0	1573	1.103E-06	3.641E-06	800

TEST F166 JULY 25, 1962 2213 TO 2313 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 3.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/80.M	DISTANCE METERS
87.0	7	5.028E-09	1.659E-06	1600
88.0	5	3.771E-09	1.244E-06	1600
89.0	12	8.798E-09	2.903E-06	1600
90.0	1	1.257E-09	4.148E-09	1600
91.0	34	2.388E-08	7.881E-06	1600
92.0	32	2.262E-08	7.466E-06	1600
93.0	197	1.343E-07	4.562E-07	1600
94.0	546	3.972E-07	1.311E-06	1600
95.0	1028	7.214E-07	2.381E-06	1600
96.0	2229	1.564E-06	5.168E-06	1600
97.0	3045	2.135E-06	7.047E-06	1600
98.0	3035	2.409E-06	7.951E-06	1600
99.0	2519	1.767E-06	5.432E-06	1600
100.0	1734	1.217E-06	4.015E-06	1600
101.0	1129	7.918E-07	2.613E-06	1600
102.0	544	3.821E-07	1.261E-06	1600
103.0	571	4.009E-07	1.323E-06	1600
104.0	648	4.688E-07	1.547E-06	1600
105.0	1240	8.698E-07	2.870E-06	1600
106.0	2421	1.698E-06	5.604E-06	1600
107.0	2944	2.065E-06	6.815E-06	1600
108.0	3557	2.495E-06	8.233E-06	1600
109.0	2238	1.570E-06	5.180E-06	1600
110.0	1200	8.421E-07	2.779E-06	1600
111.0	1102	7.730E-07	2.551E-06	1600
112.0	853	5.943E-07	1.974E-06	1600
113.0	1326	9.301E-07	3.069E-06	1600
114.0	815	5.719E-07	1.887E-06	1600
115.0	928	6.511E-07	2.149E-06	1600
116.0	695	4.877E-07	1.609E-06	1600
117.0	819	5.744E-07	1.895E-06	1600
118.0	1111	7.793E-07	2.572E-06	1600
119.0	1466	1.078E-06	3.393E-06	1600
120.0	1423	9.940E-07	3.293E-06	1600
121.0	1405	9.954E-07	3.252E-06	1600
122.0	1937	1.359E-06	4.484E-06	1600
123.0	1878	1.317E-06	4.347E-06	1600
124.0	1656	1.161E-06	3.832E-06	1600
125.0	1426	1.000E-06	3.302E-06	1600
126.0	1320	9.263E-07	3.057E-06	1600
127.0	464	3.255E-07	1.074E-06	1600
128.0	1527	1.071E-06	3.534E-06	1600
129.0	207	1.458E-07	4.811E-07	1600
130.0	1439	1.009E-06	3.331E-06	1600
131.0	1693	1.188E-06	3.920E-06	1600
132.0	1699	1.192E-06	3.932E-06	1600
133.0	1907	1.337E-06	4.413E-06	1600
134.0	1945	1.393E-06	4.596E-06	1600
135.0	2543	1.784E-06	5.886E-06	1600
136.0	2778	1.748E-06	6.429E-06	1600
137.0	335	2.150E-07	7.756E-07	1600
138.0	3046	2.137E-06	7.051E-06	1600
139.0	3905	2.719E-06	9.038E-06	1600
140.0	4228	2.945E-06	9.784E-06	1600
141.0	4029	2.874E-06	9.486E-06	1600
142.0	6348	4.052E-06	1.469E-05	1600
143.0	5342	3.737E-06	1.236E-05	1600
144.0	3969	2.784E-06	9.187E-06	1600
145.0	2562	1.797E-06	5.931E-06	1600
146.0	1634	1.146E-06	3.783E-06	1600
147.0	623	4.374E-07	1.443E-06	1600
148.0	231	1.621E-07	5.351E-07	1600
149.0	87	6.159E-08	2.032E-07	1600
150.0	8	6.284E-09	2.074E-08	1600
151.0	7	5.028E-09	1.659E-06	1600

CROSSWIND INTEGRATED= 2.023E-03 6.677E-03
SEC/SQ.M 1/M

TEST F165 JULY 25, 1962 2213 TO 2313 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M APC SAMPLER HT 1.5M U= 3.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/80.M	DISTANCE METERS
90.0	1	1.300E-09	4.289E-09	3200
91.0	0	6.499E-10	2.145E-09	3200
92.0	0	6.499E-10	2.145E-09	3200
93.0	6	4.549E-09	1.501E-08	3200
94.0	8	5.849E-09	1.930E-08	3200
95.0	32	2.275E-08	7.506E-08	3200
96.0	63	4.419E-08	1.458E-07	3200
97.0	216	1.521E-07	5.018E-07	3200
98.0	628	4.406E-07	1.450E-06	3200
99.0	1334	9.358E-07	3.088E-06	3200
100.0	1075	7.545E-07	2.490E-06	3200
101.0	780	5.472E-07	1.806E-06	3200
102.0	368	2.587E-07	8.536E-07	3200
103.0	514	3.607E-07	1.190E-06	3200
104.0	392	2.756E-07	9.093E-07	3200
105.0	496	3.483E-07	1.150E-06	3200
106.0	834	5.849E-07	1.930E-06	3200
107.0	749	5.254E-07	1.735E-06	3200
108.0	894	6.304E-07	2.080E-06	3200
109.0	946	6.635E-07	2.190E-06	3200
110.0	855	5.948E-07	1.979E-06	3200
111.0	563	3.951E-07	1.304E-06	3200
112.0	531	3.724E-07	1.229E-06	3200
113.0	323	2.248E-07	7.445E-07	3200
114.0	386	2.710E-07	8.943E-07	3200
115.0	437	3.067E-07	1.012E-06	3200
116.0	20	1.430E-08	4.718E-08	3200
117.0	321	2.255E-07	7.442E-07	3200
118.0	303	2.125E-07	7.013E-07	3200
119.0	364	2.584E-07	8.428E-07	3200
120.0	367	2.580E-07	8.514E-07	3200
121.0	354	2.483E-07	8.193E-07	3200
122.0	309	2.171E-07	7.163E-07	3200
123.0	331	2.327E-07	7.678E-07	3200
124.0	269	1.891E-07	6.241E-07	3200
125.0	327	2.294E-07	7.571E-07	3200
126.0	496	3.483E-07	1.150E-06	3200
127.0	673	4.725E-07	1.559E-06	3200
128.0	489	3.431E-07	1.132E-06	3200
129.0	452	3.171E-07	1.047E-06	3200
130.0	321	2.255E-07	7.442E-07	3200
131.0	389	2.730E-07	9.007E-07	3200
132.0	399	2.801E-07	9.243E-07	3200
133.0	377	2.645E-07	8.729E-07	3200
134.0	392	2.756E-07	9.093E-07	3200
135.0	543	3.815E-07	1.259E-06	3200
136.0	1064	7.447E-07	2.460E-06	3200
137.0	1733	1.216E-06	4.013E-06	3200
138.0	1473	1.033E-06	3.410E-06	3200
139.0	1948	1.380E-06	4.555E-06	3200
140.0	1694	1.188E-06	3.920E-06	3200
141.0	259	1.820E-07	6.005E-07	3200
142.0	265	1.845E-07	6.155E-07	3200
143.0	27	1.950E-08	6.434E-08	3200
144.0	0	0.000E+00	0.000E+00	3200
145.0	0	6.499E-10	2.145E-09	3200

CROSSWIND INTEGRATED= 1.114E-03 3.676E-03
SEC/SQ.M 1/M

TEST FT66 JULY 25, 1962 2213 TO 2313 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 12800M AFC SAMPLER HT 1.5M U= 3.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GA-SEC/CU.M X10E+6	F/C SEC/CU.M	EL/D 1/SG.M	DISTANCE METERS
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5 102.0	0	0.000E+00	0.000E+00	12800
5 103.0	0	0.000E+00	0.000E+00	12800
5 104.0	21	1.509E-08	4.979E-08	12800
5 105.0	44	3.122E-08	1.030E-07	12800
6 106.0	67	4.736E-08	1.563E-07	12800
5 107.0	74	5.239E-08	1.729E-07	12800
6 108.0	137	9.640E-08	3.181E-07	12800
7 109.0	146	1.029E-07	3.396E-07	12800
5 110.0	148	1.044E-07	3.444E-07	12800
5 111.0	81	5.742E-08	1.895E-07	12800
5 112.0	80	5.637E-08	1.860E-07	12800
6 113.0	77	5.407E-08	1.784E-07	12800
4 114.0	66	4.673E-08	1.542E-07	12800
4 115.0	75	5.281E-08	1.743E-07	12800
4 116.0	54	3.914E-08	1.259E-07	12800
4 117.0	44	4.547E-08	1.501E-07	12800
5 118.0	51	3.544E-08	1.183E-07	12800
5 119.0	64	4.527E-08	1.494E-07	12800
5 120.0	49	3.500E-08	1.155E-07	12800
5 121.0	52	3.709E-08	1.224E-07	12800
5 122.0	62	4.380E-08	1.485E-07	12800
4 123.0	50	3.542E-08	1.169E-07	12800
9 123.0	3	2.724E-09	8.990E-09	12800
6 124.0	27	1.907E-08	6.293E-08	12800
5 125.0	36	2.557E-08	8.437E-08	12800
5 126.0	56	3.942E-08	1.314E-07	12800
4 127.0	50	3.542E-08	1.169E-07	12800
5 128.0	179	1.257E-07	4.149E-07	12800
5 129.0	121	8.508E-08	2.808E-07	12800
6 130.0	46	3.240E-08	1.086E-07	12800
5 131.0	14	1.048E-08	3.458E-08	12800
4 132.0	3	2.724E-09	8.990E-09	12800
4 133.0	7	5.239E-09	1.729E-08	12800
4 134.0	7	5.029E-09	1.660E-08	12800
4 135.0	17	1.236E-08	4.080E-08	12800
4 136.0	3	2.515E-09	8.299E-09	12800
3 137.0	3	2.305E-09	7.607E-09	12800
3 138.0	13	9.640E-09	3.181E-08	12800
4 139.0	1	1.257E-09	4.149E-09	12800

CROSSKTD INTEGRATED= 3.153E-04 1.041E-03
 SEC/SG.M 1/M

30-SERIES EXPERIMENT: 67 (FT-67)
GROUND LEVEL AND TOWER SAMPLING 200 AND 800 M ARCS. GROUND LEVEL
SAMPLING ONLY 1600-3200 M ARCS. A PORTION OF THE PLUME PASSED TO
THE NORTH OF THREE OF THE FOUR ARCS.

TEST FT67 JULY 29, 1962 2227 TO 2313 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 1.7 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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68.0	104	3.092E-07	5.257E-07	200
70.0	869	1.862E-06	3.165E-06	200
72.0	7030	1.505E-05	2.559E-05	200
74.0	25456	5.451E-05	9.267E-05	200
76.0	34201	7.324E-05	1.245E-04	200
78.0	55626	1.191E-04	2.025E-04	200
80.0	45911	9.811E-05	1.671E-04	200
82.0	99777	2.117E-04	3.632E-04	200
84.0	174706	3.701E-04	6.360E-04	200
86.0	214088	4.670E-04	7.939E-04	200
88.0	141095	3.021E-04	5.136E-04	200
90.0	231092	4.948E-04	8.412E-04	200
92.0	245650	5.260E-04	8.982E-04	200
94.0	286792	6.141E-04	1.044E-03	200
96.0	254911	5.501E-04	9.352E-04	200
98.0	220706	4.726E-04	8.034E-04	200
100.0	155139	3.322E-04	5.647E-04	200
102.0	228926	4.902E-04	8.333E-04	200
104.0	90009	1.927E-04	3.277E-04	200
106.0	204006	4.369E-04	7.428E-04	200
108.0	180433	3.864E-04	6.568E-04	200
110.0	89732	1.921E-04	3.267E-04	200
112.0	30114	6.449E-05	1.096E-04	200
114.0	6901	1.478E-05	2.512E-05	200
116.0	2571	5.507E-06	9.362E-06	200
118.0	1911	4.092E-06	6.957E-06	200
120.0	1745	3.717E-06	6.353E-06	200
122.0	1256	2.691E-06	4.575E-06	200
124.0	1905	4.079E-06	6.935E-06	200
126.0	3419	7.323E-06	1.245E-05	200
128.0	2614	6.027E-06	1.025E-05	200
130.0	2190	4.621E-06	7.975E-06	200
132.0	2851	6.106E-06	1.038E-05	200
134.0	1932	4.139E-06	7.035E-06	200
136.0	1944	4.165E-06	7.080E-06	200
138.0	1797	3.849E-06	6.543E-06	200
140.0	937	2.007E-06	3.411E-06	200
142.0	875	1.875E-06	3.188E-06	200
144.0	568	1.217E-06	2.069E-06	200
146.0	288	6.145E-07	1.051E-06	200
148.0	301	6.448E-07	1.096E-06	200
150.0	270	5.790E-07	9.843E-07	200
152.0	316	6.777E-07	1.152E-06	200
154.0	76	1.645E-07	2.796E-07	200
156.0	162	3.487E-07	5.928E-07	200
158.0	221	4.737E-07	8.053E-07	200

CROSSING INTEGRATED= 4.574E-02 7.776E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW...

TEST FT67 JULY 29, 1962 2227 TO 2313 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 1.7 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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98.0	0.3	215975	4.625E-04	7.862E-04	200
98.0	0.7	213922	4.581E-04	7.787E-04	200
98.0	1.4	165469	3.543E-04	6.024E-04	200
98.0	2.7	168535	3.609E-04	6.135E-04	200
98.0	4.1	141663	3.033E-04	5.157E-04	200
98.0	5.4	150426	3.221E-04	5.476E-04	200
98.0	6.8	126726	2.714E-04	4.613E-04	200
98.0	8.1	111778	2.394E-04	4.069E-04	200
98.0	9.4	59799	1.280E-04	2.177E-04	200
98.0	10.8	63811	1.368E-04	2.323E-04	200
98.0	13.5	39514	8.461E-05	1.438E-04	200
98.0	16.2	17218	3.687E-05	6.268E-05	200
98.0	18.9	11213	2.401E-05	4.082E-05	200
98.0	21.6	5966	1.278E-05	2.172E-05	200
98.0	24.3	1924	4.122E-06	7.007E-06	200
98.0	27.0	1419	3.040E-06	5.169E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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106.0	0.3	211311	4.525E-04	7.692E-04	200
106.0	0.7	239232	5.123E-04	8.709E-04	200
106.0	1.4	85123	1.823E-04	3.099E-04	200
106.0	2.7	163479	3.501E-04	5.951E-04	200
106.0	4.1	140267	3.432E-04	5.834E-04	200
106.0	5.4	138632	2.969E-04	5.047E-04	200
106.0	6.8	134579	2.882E-04	4.899E-04	200
106.0	8.1	95741	2.051E-04	3.486E-04	200
106.0	9.4	85567	1.832E-04	3.115E-04	200
106.0	10.8	76902	1.647E-04	2.799E-04	200
106.0	13.5	41098	8.000E-05	1.496E-04	200
106.0	16.2	18476	3.956E-05	6.726E-05	200
106.0	18.9	7904	1.693E-05	2.878E-05	200
106.0	21.6	3474	7.440E-06	1.265E-05	200
106.0	24.3	1180	2.527E-06	4.296E-06	200
106.0	27.0	531	1.137E-06	1.933E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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114.0	0.3	4465	9.563E-06	1.626E-05	200
114.0	0.7	5354	1.146E-05	1.949E-05	200
114.0	1.4	5065	1.085E-05	1.844E-05	200
114.0	2.7	5992	1.283E-05	2.182E-05	200
114.0	4.1	9332	1.998E-05	3.397E-05	200
114.0	5.4	10642	2.279E-05	3.874E-05	200
114.0	6.8	11598	2.444E-05	4.222E-05	200
114.0	8.1	10630	2.276E-05	3.870E-05	200
114.0	9.4	12292	2.632E-05	4.475E-05	200
114.0	10.8	11504	2.463E-05	4.188E-05	200
114.0	13.5	10130	2.169E-05	3.688E-05	200
114.0	16.2	5660	1.212E-05	2.060E-05	200
114.0	18.9	3125	6.692E-06	1.138E-05	200
114.0	21.6	1701	3.730E-06	6.341E-06	200
114.0	24.3	500	1.071E-06	1.821E-06	200
114.0	27.0	145	3.126E-07	5.304E-07	200

AZIMUTH HEIGHT EXPOSURE E/O FU/O DISTANCE
DEGREES METERS GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS

122.0	0.3	2083	4.461E-06	7.583E-06	200
122.0	0.7	2052	4.396E-06	7.473E-06	200
122.0	1.4	1740	3.770E-06	6.410E-06	200
122.0	2.7	1498	3.209E-06	5.456E-06	200
122.0	4.1	2369	5.074E-06	8.627E-06	200
122.0	5.4	2211	4.736E-06	8.051E-06	200
122.0	6.8	2391	5.120E-06	8.704E-06	200
122.0	8.1	2119	4.539E-06	7.716E-06	200
122.0	9.4	2143	4.589E-06	7.802E-06	200
122.0	10.8	2121	4.540E-06	7.724E-06	200
122.0	13.5	1437	3.078E-06	5.233E-06	200
122.0	16.2	1656	3.548E-06	6.032E-06	200
122.0	18.9	771	1.653E-06	2.810E-06	200
122.0	21.6	405	8.693E-07	1.478E-06	200
122.0	24.3	420	9.014E-07	1.532E-06	200
122.0	27.0	464	9.950E-07	1.691E-06	200

AZIMUTH HEIGHT EXPOSURE E/O FU/O DISTANCE
DEGREES METERS GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS

130.0	0.3	3743	3.776E-06	6.419E-06	200
130.0	0.7	3341	7.156E-06	1.216E-05	200
130.0	1.4	3165	6.778E-06	1.152E-05	200
130.0	2.7	2839	6.080E-06	1.034E-05	200
130.0	4.1	965	2.067E-06	3.514E-06	200
130.0	5.4	1777	3.806E-06	6.470E-06	200
130.0	6.8	1475	3.159E-06	5.370E-06	200
130.0	8.1	1142	2.446E-06	4.159E-06	200
130.0	9.4	342	7.329E-07	1.246E-06	200
130.0	10.8	490	1.051E-06	1.787E-06	200
130.0	13.5	587	1.255E-06	2.139E-06	200
130.0	16.2	210	4.498E-07	7.647E-07	200
130.0	18.9	73	1.567E-07	2.664E-07	200
130.0	21.6	77	1.668E-07	2.835E-07	200
130.0	24.3	9	2.080E-08	3.536E-08	200
130.0	27.0	38	8.320E-08	1.414E-07	200

TFST F167 JULY 29, 1962 2227 TO 2313 PST
714C SULFIDE RELEASE FROM ELEVATION OF 2M
APPROX ARC SAMPLER HT 1.5M Wx 1.7 M/SEC AT 2M

AZIMUTH EXPOSURE E/O FU/O DISTANCE
DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS

70.0	790	1.693E-06	2.878E-06	800
72.0	1402	3.988E-06	5.107E-06	800
74.0	1135	2.431E-06	4.133E-06	800
76.0	1159	2.482E-06	4.220E-06	800
78.0	1031	2.208E-06	3.754E-06	800
80.0	3043	6.517E-06	1.108E-05	800
82.0	8360	1.790E-05	3.044E-05	800
84.0	12584	2.695E-05	4.581E-05	800
86.0	12932	2.749E-05	4.708E-05	800
88.0	15714	3.365E-05	5.720E-05	800
90.0	22615	4.843E-05	8.233E-05	800
92.0	21078	4.514E-05	7.673E-05	800
94.0	18496	3.961E-05	6.733E-05	800
96.0	21084	4.515E-05	7.675E-05	800
98.0	25216	5.400E-05	9.179E-05	800
100.0	15494	3.314E-05	5.640E-05	800
Z 102.0	3135	6.715E-06	1.141E-05	800
104.0	13502	2.841E-05	4.915E-05	800
106.0	6714	1.438E-05	2.444E-05	800
Z 108.0	838	1.795E-06	3.051E-06	800
110.0	949	2.119E-06	3.603E-06	800
112.0	288	6.174E-07	1.050E-06	800
114.0	109	2.355E-07	4.003E-07	800
116.0	151	3.246E-07	5.518E-07	800
118.0	193	4.137E-07	7.033E-07	800
120.0	234	5.028E-07	8.588E-07	800
122.0	145	3.119E-07	5.302E-07	800
124.0	285	6.110E-07	1.039E-06	800
126.0	269	5.668E-07	9.629E-07	800
128.0	320	6.874E-07	1.169E-06	800
130.0	216	4.646E-07	7.898E-07	800
132.0	445	9.587E-07	1.623E-06	800
134.0	157	3.373E-07	5.734E-07	800
136.0	109	2.355E-07	4.003E-07	800
138.0	118	2.546E-07	4.328E-07	800
140.0	83	1.782E-07	3.029E-07	800
142.0	166	3.568E-07	6.059E-07	800
144.0	71	1.527E-07	2.597E-07	800
146.0	38	8.274E-08	1.407E-07	800
148.0	26	5.728E-08	9.738E-08	800
150.0	40	9.587E-08	1.623E-07	800
152.0	8	1.969E-08	3.286E-08	800
154.0	0	0.000E+00	0.000E+00	800
156.0	14	3.182E-08	5.010E-08	800
158.0	0	0.000E+00	0.000E+00	800
160.0	11	2.586E-08	4.328E-08	800

CROSSWIND INTEGRATED* 1.261E-02 2.183E-02
SEC/90.M 1/M

TOWER DATA FOLLOW.....

TEST FT67 JULY 29, 1962 2227 TO 2313 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 ROOM ARC U= 1.7 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM.	EU/O 1/SQ.M	DISTANCE METERS
98.0	0.3	22562	4.831E-05	8.213E-05	800
98.0	0.5	24391	5.223E-05	8.879E-05	800
98.0	1.0	20530	4.396E-05	7.474E-05	800
98.0	2.1	19105	4.091E-05	6.955E-05	800
98.0	4.2	20135	4.312E-05	7.330E-05	800
98.0	6.3	17621	3.773E-05	6.815E-05	800
98.0	8.4	16503	3.534E-05	6.008E-05	800
98.0	10.5	16831	3.604E-05	6.127E-05	800
98.0	12.6	11384	2.438E-05	4.144E-05	800
98.0	14.7	10619	2.274E-05	3.866E-05	800
98.0	16.8	11009	2.358E-05	4.008E-05	800
98.0	21.0	6870	1.471E-05	2.501E-05	800
98.0	25.2	4172	8.934E-06	1.519E-05	800
N 98.0	29.4	0	0.000E+00	0.000E+00	800
N 98.0	33.6	0	0.000E+00	0.000E+00	800
N 98.0	37.8	0	0.000E+00	0.000E+00	800
98.0	42.0	440	9.423E-07	1.602E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM.	EU/O 1/SQ.M	DISTANCE METERS
106.0	0.3	4479	9.592E-06	1.631E-05	800
106.0	0.5	6134	1.314E-05	2.234E-05	800
106.0	1.0	4488	9.612E-06	1.634E-05	800
106.0	2.1	5867	1.256E-05	2.136E-05	800
106.0	4.2	6555	1.400E-05	2.366E-05	800
106.0	6.3	7525	1.611E-05	2.739E-05	800
106.0	8.4	9278	1.987E-05	3.378E-05	800
106.0	10.5	10176	2.179E-05	3.704E-05	800
106.0	12.6	10687	2.289E-05	3.891E-05	800
106.0	14.7	10210	2.186E-05	3.717E-05	800
106.0	16.8	7525	1.611E-05	2.739E-05	800
106.0	21.0	6975	1.494E-05	2.539E-05	800
D 106.0	25.2	822	1.761E-06	2.993E-06	800
D 106.0	29.4	0	0.000E+00	0.000E+00	800
N 106.0	33.6	0	0.000E+00	0.000E+00	800
N 106.0	37.8	0	0.000E+00	0.000E+00	800
106.0	42.0	316	6.774E-07	1.152E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM.	EU/O 1/SQ.M	DISTANCE METERS
114.0	0.3	211	4.531E-07	7.703E-07	800
114.0	0.5	123	2.609E-07	4.503E-07	800
114.0	1.0	132	2.836E-07	4.821E-07	800
114.0	2.1	180	3.882E-07	6.568E-07	800
114.0	4.2	376	8.062E-07	1.371E-06	800
114.0	6.3	803	1.721E-06	2.926E-06	800
114.0	8.4	493	1.056E-06	1.795E-06	800
114.0	10.5	668	1.433E-06	2.435E-06	800
114.0	12.6	563	1.271E-06	2.161E-06	800
114.0	14.7	805	1.726E-06	2.934E-06	800
114.0	16.8	917	1.965E-06	3.341E-06	800
114.0	21.0	1106	2.454E-06	4.172E-06	800
114.0	25.2	1032	2.210E-06	3.757E-06	800
114.0	29.4	585	1.254E-06	2.132E-06	800
114.0	33.6	521	1.117E-06	1.898E-06	800
114.0	37.8	397	8.518E-07	1.448E-06	800
114.0	42.0	210	4.594E-07	7.810E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM.	EU/O 1/SQ.M	DISTANCE METERS
122.0	0.3	192	4.113E-07	6.992E-07	800
122.0	0.5	221	4.740E-07	8.058E-07	800
122.0	1.0	150	3.227E-07	5.486E-07	800
122.0	2.1	253	5.427E-07	9.226E-07	800
122.0	4.2	400	9.436E-07	1.604E-06	800
122.0	6.3	364	7.383E-07	1.255E-06	800
122.0	8.4	431	9.240E-07	1.571E-06	800
122.0	10.5	324	6.943E-07	1.180E-06	800
122.0	12.6	253	5.427E-07	9.226E-07	800
122.0	14.7	292	6.258E-07	1.064E-06	800
122.0	16.8	79	1.711E-07	2.909E-07	800
122.0	21.0	141	3.031E-07	5.153E-07	800
122.0	25.2	46	1.006E-07	1.710E-07	800
122.0	29.4	133	2.850E-07	4.846E-07	800
122.0	33.6	111	2.381E-07	4.048E-07	800
122.0	37.8	76	1.643E-07	2.793E-07	800
122.0	42.0	7	1.677E-08	2.850E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM.	EU/O 1/SQ.M	DISTANCE METERS
130.0	0.3	273	5.855E-07	9.959E-07	800
130.0	0.5	289	6.204E-07	1.055E-06	800
130.0	1.0	269	5.769E-07	9.808E-07	800
130.0	2.1	299	6.405E-07	1.089E-06	800
130.0	4.2	479	1.027E-06	1.745E-06	800
130.0	6.3	397	8.507E-07	1.446E-06	800
130.0	8.4	397	8.507E-07	1.446E-06	800
130.0	10.5	358	7.676E-07	1.305E-06	800
130.0	12.6	529	1.134E-06	1.928E-06	800
130.0	14.7	440	9.436E-07	1.604E-06	800
130.0	16.8	287	6.160E-07	1.047E-06	800
130.0	21.0	305	6.551E-07	1.114E-06	800
130.0	25.2	217	4.661E-07	7.924E-07	800
130.0	29.4	186	3.991E-07	6.784E-07	800
130.0	33.6	155	3.320E-07	5.644E-07	800
130.0	37.8	142	3.052E-07	5.188E-07	800
130.0	42.0	122	2.616E-07	4.447E-07	800

TEST FT67 JULY 29, 1962 2227 TO 2313 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 1.7 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
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70.0	446	9.562E-07	1.626E-06	1600
71.0	431	9.240E-07	1.571E-06	1600
72.0	500	1.071E-06	1.821E-06	1600
73.0	592	1.269E-06	2.157E-06	1600
74.0	577	1.237E-06	2.102E-06	1600
75.0	566	1.214E-06	2.063E-06	1600
76.0	446	9.562E-07	1.626E-06	1600
77.0	571	1.223E-06	2.079E-06	1600
78.0	407	8.734E-07	1.485E-06	1600
79.0	809	1.733E-06	2.906E-06	1600
80.0	1367	2.928E-06	4.978E-06	1600
81.0	1872	4.009E-06	6.815E-06	1600
82.0	2363	5.061E-06	8.604E-06	1600
83.0	3190	6.831E-06	1.161E-05	1600
84.0	3379	7.236E-06	1.230E-05	1600
85.0	3690	7.902E-06	1.343E-05	1600
86.0	3357	7.190E-06	1.222E-05	1600
87.0	3400	7.282E-06	1.238E-05	1600
88.0	3827	8.196E-06	1.393E-05	1600
89.0	3233	6.923E-06	1.177E-05	1600
90.0	4420	9.845E-06	1.609E-05	1600
91.0	3965	8.491E-06	1.403E-05	1600
92.0	4929	1.055E-05	1.794E-05	1600
93.0	4810	1.030E-05	1.751E-05	1600
94.0	6092	1.305E-05	2.218E-05	1600
95.0	6949	1.498E-05	2.530E-05	1600
96.0	7148	1.531E-05	2.602E-05	1600
97.0	8243	1.765E-05	3.001E-05	1600
98.0	6794	1.455E-05	2.473E-05	1600
99.0	7105	1.522E-05	2.587E-05	1600
100.0	8253	1.739E-05	2.976E-05	1600
101.0	9238	1.122E-05	1.907E-05	1600
102.0	9020	8.610E-06	1.464E-05	1600
103.0	3045	6.565E-06	1.116E-05	1600
104.0	2713	5.811E-06	9.878E-06	1600
105.0	2258	4.836E-06	8.221E-06	1600
106.0	1620	3.471E-06	5.908E-06	1600
107.0	1320	2.827E-06	4.806E-06	1600
108.0	1044	2.151E-06	3.657E-06	1600
109.0	605	1.296E-06	2.204E-06	1600
110.0	437	9.378E-07	1.598E-06	1600
111.0	238	5.103E-07	8.675E-07	1600
112.0	264	5.654E-07	9.612E-07	1600
113.0	83	1.793E-07	3.048E-07	1600
114.0	60	1.287E-07	2.188E-07	1600
115.0	49	1.057E-07	1.797E-07	1600
116.0	51	1.103E-07	1.876E-07	1600
117.0	60	1.287E-07	2.188E-07	1600
118.0	47	1.011E-07	1.719E-07	1600
119.0	53	1.149E-07	1.951E-07	1600
120.0	72	1.563E-07	2.657E-07	1600

121.0	42	7.194E-08	1.563E-07	1600
122.0	81	1.747E-07	2.970E-07	1600
123.0	113	3.080E-07	5.236E-07	1600
124.0	113	2.850E-07	4.845E-07	1600
125.0	88	1.845E-07	3.204E-07	1600
126.0	72	1.563E-07	2.657E-07	1600
127.0	103	2.207E-07	3.751E-07	1600
128.0	51	1.103E-07	1.876E-07	1600
129.0	152	3.264E-07	5.549E-07	1600
130.0	94	2.023E-07	3.439E-07	1600
131.0	120	2.574E-07	4.376E-07	1600
132.0	36	7.815E-08	1.329E-07	1600
133.0	62	1.333E-07	2.266E-07	1600
134.0	4	9.194E-09	1.563E-08	1600
135.0	6	1.379E-08	2.344E-08	1600
136.0	12	2.758E-08	4.689E-08	1600
137.0	32	6.896E-08	1.172E-07	1600
138.0	12	2.758E-08	4.689E-08	1600
139.0	25	5.516E-08	9.378E-08	1600
140.0	8	1.839E-08	3.126E-08	1600
141.0	27	5.976E-08	1.016E-07	1600
142.0	23	5.057E-08	8.596E-08	1600
143.0	25	5.516E-08	9.378E-08	1600
144.0	45	9.654E-08	1.641E-07	1600
145.0	25	5.516E-08	9.378E-08	1600
146.0	8	1.839E-08	3.126E-08	1600
147.0	4	9.194E-09	1.563E-08	1600

CROSSWIND INTEGRATED= 7.562E-03 1.286E-02
SEC/90.M 1/M

TEST FT67 JULY 29, 1962 2227 TO 2313 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 3200M ARC SAMPLER HT 1.5M U= 1.7 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10F+6	E/O SEC/CM	EU/O 1/SEC	DISTANCE METERS
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71.0	0	0.000E+00	0.000E+00	3200
72.0	0	0.000E+00	0.000E+00	3200
73.0	0	2.079E-09	3.534E-09	3200
74.0	4	1.039E-08	1.767E-08	3200
75.0	2	6.217E-09	1.060E-08	3200
76.0	49	1.060E-07	1.802E-07	3200
77.0	62	1.311E-07	2.262E-07	3200
78.0	117	2.516E-07	4.276E-07	3200
79.0	129	2.765E-07	4.701E-07	3200
80.0	166	3.555E-07	6.044E-07	3200
81.0	175	3.763E-07	6.397E-07	3200
82.0	320	6.861E-07	1.166E-06	3200
83.0	278	5.967E-07	1.014E-06	3200
84.0	355	7.609E-07	1.294E-06	3200
85.0	423	9.064E-07	1.541E-06	3200
86.0	398	8.524E-07	1.449E-06	3200
87.0	756	1.620E-06	2.753E-06	3200
88.0	729	1.561E-06	2.654E-06	3200
89.0	593	1.270E-06	2.159E-06	3200
90.0	847	1.900E-06	3.230E-06	3200
91.0	1260	2.694E-06	4.587E-06	3200
92.0	1010	2.164E-06	3.679E-06	3200
93.0	1088	2.331E-06	3.962E-06	3200
94.0	1598	3.422E-06	5.817E-06	3200
95.0	1434	3.073E-06	5.224E-06	3200
96.0	2300	4.927E-06	8.376E-06	3200
97.0	2135	4.574E-06	7.775E-06	3200
98.0	1999	4.241E-06	7.277E-06	3200
99.0	1965	4.208E-06	7.153E-06	3200
100.0	1942	4.160E-06	7.072E-06	3200
101.0	1988	4.258E-06	7.238E-06	3200
102.0	1633	3.499E-06	5.948E-06	3200
103.0	1799	3.452E-06	6.549E-06	3200
104.0	1199	2.568E-06	4.365E-06	3200
105.0	1081	2.316E-06	3.937E-06	3200
106.0	721	1.545E-06	2.626E-06	3200
107.0	618	1.324E-06	2.251E-06	3200
108.0	499	1.071E-06	1.820E-06	3200
109.0	282	6.050E-07	1.028E-06	3200
110.0	131	2.807E-07	4.771E-07	3200
111.0	66	1.414E-07	2.403E-07	3200
112.0	0	2.079E-09	3.534E-09	3200
113.0	0	0.000E+00	0.000E+00	3200
114.0	0	0.000E+00	0.000E+00	3200
115.0	5	1.247E-08	2.121E-08	3200
116.0	0	0.000E+00	0.000E+00	3200
117.0	11	2.495E-08	4.201E-08	3200
118.0	5	1.247E-08	2.121E-08	3200
119.0	15	3.326E-08	5.655E-08	3200
120.0	4	1.039E-08	1.767E-08	3200
121.0	3	8.316E-09	1.414E-08	3200
122.0	8	1.871E-08	3.181E-08	3200
123.0	9	2.079E-08	3.534E-08	3200
124.0	4	1.039E-08	1.767E-08	3200
125.0	3	8.316E-09	1.414E-08	3200
126.0	7	1.663E-08	2.827E-08	3200
127.0	15	3.326E-08	5.655E-08	3200
128.0	0	0.000E+00	0.000E+00	3200
129.0	12	2.703E-08	4.594E-08	3200
130.0	10	2.247E-08	3.888E-08	3200
131.0	4	1.039E-08	1.767E-08	3200
132.0	0	2.079E-09	3.534E-09	3200
133.0	1	4.158E-09	7.068E-09	3200

CROSSWIND INTEGRATED= 3.867E-03 6.575E-03
 SEC/90.M 1/M

30-SERIES EXPERIMENT: 68 (1 FT-68)
GROUND LEVEL AND TOWER SAMPLING 200 AND 300 M ARCS. GROUND LEVEL
SAMPLING ONLY 1500-3200 M ARCS.

TEST FT68 JULY 30, 1962 2107 TO 2152 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U* 3.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM	E/G SEC/CM	FL/G 1/50,M	DISTANCE METERS
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60.0	0	0.000E+00	0.000E+00	200
70.0	70	1.548E-07	5.883E-07	200
72.0	0	0.000E+00	0.000E+00	200
74.0	17	3.753E-08	1.426E-07	200
76.0	21	4.691E-08	1.783E-07	200
78.0	89	1.970E-07	7.047E-07	200
80.0	76	1.689E-07	6.418E-07	200
82.0	72	1.595E-07	6.041E-07	200
84.0	157	3.472E-07	1.319E-06	200
86.0	104	2.249E-07	8.735E-07	200
88.0	93	2.064E-07	7.844E-07	200
90.0	226	4.973E-07	1.890E-06	200
92.0	288	6.333E-07	2.407E-06	200
94.0	471	1.037E-06	3.940E-06	200
96.0	448	9.852E-07	3.744E-06	200
98.0	6	1.407E-08	5.348E-08	200
100.0	394	8.679E-07	3.298E-06	200
102.0	433	9.524E-07	3.619E-06	200
104.0	461	1.013E-06	3.851E-06	200
106.0	358	7.882E-07	2.995E-06	200
108.0	621	1.365E-06	5.188E-06	200
110.0	747	1.642E-06	6.240E-06	200
112.0	645	1.464E-06	5.562E-06	200
114.0	1120	2.463E-06	9.359E-06	200
116.0	4173	9.172E-06	3.485E-05	200
118.0	9048	1.989E-05	7.557E-05	200
120.0	22308	4.903E-05	1.863E-04	200
122.0	34729	7.633E-05	2.900E-04	200
124.0	64212	1.411E-04	5.363E-04	200
126.0	89970	1.977E-04	7.514E-04	200
128.0	100184	2.202E-04	8.367E-04	200
130.0	123927	2.724E-04	1.035E-03	200
132.0	153890	3.382E-04	1.285E-03	200
134.0	199412	2.405E-04	9.138E-04	200
136.0	83282	1.830E-04	6.955E-04	200
138.0	43575	9.577E-05	3.639E-04	200
140.0	18724	4.115E-05	1.564E-04	200
142.0	6307	1.386E-05	5.268E-05	200
144.0	1408	3.096E-06	1.177E-05	200
146.0	315	6.903E-07	2.638E-06	200
148.0	110	2.440E-07	9.270E-07	200
150.0	4	9.383E-09	3.565E-08	200
152.0	0	0.000E+00	0.000E+00	200
154.0	0	0.000E+00	0.000E+00	200
156.0	0	0.000E+00	0.000E+00	200
158.0	0	0.000E+00	0.000E+00	200

CROSSWIND INTEGRATED= 1.339E-02 5.087E-02
SEC/50,M 1/M

TOWER DATA FOLLOW....

TEST FT68 JULY 30, 1962 2107 TO 2152 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U* 3.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM	E/G SEC/CM	FL/G 1/50,M	DISTANCE METERS
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98.0	0.3	629	1.380E-06	5.261E-06	200
98.0	0.7	454	9.998E-07	3.798E-06	200
98.0	1.4	176	3.875E-07	1.473E-06	200
98.0	2.7	102	2.258E-07	8.582E-07	200
98.0	4.1	77	1.694E-07	6.437E-07	200
98.0	5.4	63	1.386E-07	5.266E-07	200
98.0	6.8	16	3.593E-08	1.365E-07	200
98.0	8.1	12	2.823E-08	1.073E-07	200
98.0	9.4	0	0.000E+00	0.000E+00	200
98.0	10.8	29	6.416E-08	2.438E-07	200
98.0	13.5	0	0.000E+00	0.000E+00	200
98.0	16.2	0	0.000E+00	0.000E+00	200
98.0	18.9	0	0.000E+00	0.000E+00	200
98.0	21.6	0	0.000E+00	0.000E+00	200
98.0	24.3	0	0.000E+00	0.000E+00	200
98.0	27.0	3	6.696E-09	2.545E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM	E/G SEC/CM	FL/G 1/50,M	DISTANCE METERS
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106.0	0.3	457	1.006E-06	3.824E-06	200
106.0	0.7	574	1.263E-06	4.799E-06	200
106.0	1.4	117	2.592E-07	9.850E-07	200
106.0	2.7	107	2.361E-07	8.972E-07	200
106.0	4.1	95	2.104E-07	7.997E-07	200
106.0	5.4	121	2.669E-07	1.014E-06	200
106.0	6.8	26	5.903E-08	2.243E-07	200
106.0	8.1	11	2.566E-08	9.752E-08	200
106.0	9.4	18	4.106E-08	1.560E-07	200
106.0	10.8	5	1.283E-08	4.876E-08	200
106.0	13.5	0	0.000E+00	0.000E+00	200
106.0	16.2	2	5.133E-09	1.950E-08	200
106.0	18.9	2	5.133E-09	1.950E-08	200
106.0	21.6	11	2.566E-08	9.752E-08	200
106.0	24.3	0	0.000E+00	0.000E+00	200
106.0	27.0	0	0.000E+00	0.000E+00	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM	E/G SEC/CM	FL/G 1/50,M	DISTANCE METERS
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114.0	0.3	1026	2.256E-06	8.571E-06	200
114.0	0.7	1966	4.322E-06	1.642E-05	200
114.0	1.4	879	1.933E-06	7.344E-06	200
114.0	2.7	559	1.229E-06	4.671E-06	200
114.0	4.1	532	1.170E-06	4.447E-06	200
114.0	5.4	608	1.337E-06	5.081E-06	200
114.0	6.8	472	1.039E-06	3.950E-06	200
114.0	8.1	409	9.008E-07	3.423E-06	200
114.0	9.4	305	6.724E-07	2.555E-06	200
114.0	10.8	274	6.031E-07	2.292E-06	200
114.0	13.5	182	3.944E-07	1.521E-06	200
114.0	16.2	163	3.73E-07	1.365E-06	200
114.0	18.9	71	1.642E-07	6.241E-07	200
114.0	21.6	18	4.106E-08	1.560E-07	200
114.0	24.3	4	1.004E-08	3.817E-08	200
114.0	27.0	5	1.172E-08	4.453E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	FU/D 1/SEC ²	DISTANCE METERS
122.0	0.3	30246	6.644E-05	2.526E-04	200
122.0	0.7	35040	7.701E-05	2.926E-04	200
122.0	1.4	13218	2.905E-05	1.104E-04	200
122.0	2.7	20313	4.465E-05	1.697E-04	200
122.0	4.1	17826	3.914E-05	1.489E-04	200
122.0	5.4	16527	3.632E-05	1.380E-04	200
122.0	6.8	14827	3.259E-05	1.238E-04	200
122.0	8.1	15699	3.449E-05	1.311E-04	200
122.0	9.4	12833	2.820E-05	1.072E-04	200
122.0	10.8	10927	2.402E-05	9.126E-05	200
122.0	13.5	9220	2.026E-05	7.700E-05	200
122.0	16.2	7120	1.565E-05	5.947E-05	200
122.0	18.9	4688	1.022E-05	3.882E-05	200
122.0	21.6	2189	4.812E-06	1.829E-05	200
122.0	24.3	1000	2.200E-06	8.359E-06	200
122.0	27.0	756	1.662E-06	6.317E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	FU/D 1/SEC ²	DISTANCE METERS
130.0	0.3	137527	3.023E-04	1.149E-03	200
130.0	0.7	156593	3.442E-04	1.308E-03	200
130.0	1.4	65105	1.431E-04	5.437E-04	200
130.0	2.7	69737	1.533E-04	5.824E-04	200
130.0	4.1	44428	1.420E-04	5.398E-04	200
130.0	5.4	48102	1.497E-04	5.688E-04	200
130.0	6.8	57312	1.268E-04	4.787E-04	200
130.0	8.1	41651	1.355E-04	5.149E-04	200
130.0	9.4	6153	1.352E-05	5.139E-05	200
130.0	10.8	50994	1.121E-04	4.259E-04	200
130.0	13.5	29605	6.507E-05	2.473E-04	200
130.0	16.2	24475	5.379E-05	2.044E-04	200
130.0	18.9	15528	3.413E-05	1.297E-04	200
130.0	21.6	10490	2.306E-05	8.762E-05	200
130.0	24.3	3658	8.040E-06	3.055E-05	200
130.0	27.0	2525	5.551E-06	2.109E-05	200

TEST FT68 JULY 30, 1962 2107 TO 2152 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	FU/D 1/SEC ²	DISTANCE METERS
84.0	6	1.361E-08	5.173E-08	800
86.0	2	4.538E-09	1.724E-08	800
88.0	18	4.040E-08	1.552E-07	800
90.0	37	8.169E-08	3.104E-07	800
92.0	10	2.249E-08	8.622E-08	800
94.0	28	6.353E-08	2.410E-07	800
96.0	39	8.622E-08	3.276E-07	800
98.0	33	7.261E-08	2.759E-07	800
100.0	76	1.679E-07	6.381E-07	800
102.0	8	1.815E-08	6.898E-08	800
104.0	85	9.984E-08	3.794E-07	800
106.0	18	4.084E-08	1.552E-07	800
108.0	6	1.361E-08	5.173E-08	800
110.0	47	1.044E-07	3.966E-07	800
112.0	70	1.583E-07	5.863E-07	800
114.0	109	2.405E-07	9.140E-07	800
116.0	103	2.269E-07	8.622E-07	800
118.0	59	1.316E-07	5.001E-07	800
120.0	468	1.030E-06	3.915E-06	800
122.0	1515	3.331E-06	1.266E-05	800
124.0	2618	5.754E-06	2.187E-05	800
126.0	4468	9.820E-06	3.732E-05	800
128.0	8979	1.974E-05	7.500E-05	800
130.0	12219	2.686E-05	1.021E-04	800
132.0	13937	3.063E-05	1.164E-04	800
134.0	8571	1.884E-05	7.158E-05	800
136.0	4371	9.607E-06	3.651E-05	800
138.0	1780	3.826E-06	1.454E-05	800
140.0	169	3.721E-07	1.414E-06	800
142.0	24	5.446E-08	2.069E-07	800
144.0	2	4.538E-09	1.724E-08	800

CROSSWIND INTEGRATED= 3.671E-03 1.395E-02
SEC/30,M 1/M

TOWER DATA FOLLOW...

TEST FT68 JULY 30, 1962 2107 TO 2152 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC U= 3.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	FU/D 1/SEC ²	DISTANCE METERS
98.0	0.3	56	1.241E-07	4.716E-07	800
98.0	0.5	20	4.573E-08	1.738E-07	800
98.0	1.0	0	0.000E+00	0.000E+00	800
98.0	2.1	13	2.979E-08	1.132E-07	800
98.0	4.2	22	4.965E-08	1.887E-07	800
98.0	6.3	0	0.000E+00	0.000E+00	800
98.0	8.4	3	7.448E-09	2.830E-08	800
98.0	10.5	13	2.979E-08	1.132E-07	800
98.0	12.6	11	2.483E-08	9.434E-08	800
98.0	14.7	7	1.732E-08	6.604E-08	800
98.0	16.8	4	9.930E-09	3.773E-08	800
98.0	21.0	9	1.986E-08	7.587E-08	800
98.0	25.2	0	0.000E+00	0.000E+00	800
98.0	29.4	0	0.000E+00	0.000E+00	800
98.0	33.6	0	0.000E+00	0.000E+00	800
98.0	37.8	0	0.000E+00	0.000E+00	800
98.0	42.0	2	6.477E-09	2.461E-08	800

AZIMUTH	HEIGHT	EXPOSURE	E/Q	FU/Q	DISTANCE	AZIMUTH	HEIGHT	EXPOSURE	E/Q	FU/Q	DISTANCE
DEGREES	METERS	GM-SEC/CU.M	SEC/CU.M	1/SQ.M	METERS	DEGREES	METERS	GM-SEC/CU.M	SEC/CU.M	1/SQ.M	METERS
		X10E+6						X10E+6			
100.0	0.3	0	0.000E+00	0.000E+00	800	130.0	0.3	12254	2.693E+05	1.023E+04	800
100.0	0.5	0	0.000E+00	0.000E+00	800	130.0	0.5	11273	2.478E+05	9.415E+03	800
100.0	1.0	39	6.703E+08	2.547E+07	800	130.0	1.0	6548	1.839E+05	5.469E+03	800
100.0	2.1	35	7.696E+08	2.924E+07	800	130.0	2.1	6751	1.880E+05	5.638E+03	800
100.0	4.2	13	2.979E+08	1.132E+07	800	130.0	4.2	7827	1.730E+05	6.588E+03	800
100.0	6.3	5	1.241E+08	4.717E+06	800	130.0	6.3	7414	1.630E+05	6.192E+03	800
100.0	8.4	24	5.462E+08	2.075E+07	800	130.0	8.4	7281	1.600E+05	6.081E+03	800
100.0	10.5	27	5.958E+08	2.264E+07	800	130.0	10.5	6253	1.378E+05	5.222E+03	800
100.0	12.6	7	1.738E+08	6.604E+06	800	130.0	12.6	5955	1.305E+05	4.973E+03	800
100.0	14.7	0	0.000E+00	0.000E+00	800	130.0	14.7	8071	1.774E+05	6.741E+03	800
S 100.0	16.8	19	4.220E+08	1.604E+07	800	130.0	16.8	6785	1.491E+05	5.667E+03	800
100.0	21.0	0	0.000E+00	0.000E+00	800	130.0	21.0	5877	1.292E+05	4.908E+03	800
100.0	25.2	0	0.000E+00	0.000E+00	800	130.0	25.2	3549	7.846E+04	2.981E+03	800
100.0	29.4	3	4.097E+09	3.077E+08	800	130.0	29.4	3049	6.790E+04	2.580E+03	800
100.0	33.6	0	0.000E+00	0.000E+00	800	130.0	33.6	2294	5.043E+04	1.916E+03	800
100.0	37.8	0	0.000E+00	0.000E+00	800	130.0	37.8	1517	3.334E+04	1.267E+03	800
100.0	42.0	0	1.619E+09	6.153E+09	800	130.0	42.0	1052	2.312E+04	8.787E+02	800

AZIMUTH	HEIGHT	EXPOSURE	E/Q	FU/Q	DISTANCE
DEGREES	METERS	GM-SEC/CU.M	SEC/CU.M	1/SQ.M	METERS
		X10E+6			
110.0	0.3	8	1.960E+08	7.447E+06	800
M 110.0	0.5	0	0.000E+00	0.000E+00	800
110.0	1.0	15	3.476E+08	1.321E+07	800
110.0	2.1	12	2.731E+08	1.038E+07	800
110.0	4.2	62	1.365E+07	5.189E+07	800
110.0	6.3	14	3.227E+08	1.226E+07	800
110.0	8.4	23	5.213E+08	1.981E+07	800
110.0	10.5	13	2.979E+08	1.132E+07	800
110.0	12.6	45	9.930E+08	3.773E+07	800
110.0	14.7	35	7.696E+08	2.924E+07	800
110.0	16.8	30	6.703E+08	2.547E+07	800
110.0	21.0	0	0.000E+00	0.000E+00	800
110.0	25.2	23	5.182E+08	1.969E+07	800
110.0	29.4	0	0.000E+00	0.000E+00	800
S 110.0	33.6	0	0.000E+00	0.000E+00	800
110.0	37.8	0	0.000E+00	0.000E+00	800
110.0	42.0	0	0.000E+00	0.000E+00	800

AZIMUTH	HEIGHT	EXPOSURE	E/Q	FU/Q	DISTANCE
DEGREES	METERS	GM-SEC/CU.M	SEC/CU.M	1/SQ.M	METERS
		X10E+6			
120.0	0.3	1714	3.765E+06	1.432E+05	800
120.0	0.5	1717	3.776E+06	1.435E+05	800
120.0	1.0	549	1.251E+06	4.755E+04	800
120.0	2.1	379	8.341E+07	3.170E+06	800
120.0	4.2	1022	2.247E+06	8.537E+04	800
120.0	6.3	1035	2.276E+06	8.651E+04	800
120.0	8.4	1147	2.522E+06	9.585E+04	800
120.0	10.5	821	1.805E+06	6.858E+04	800
120.0	12.6	625	1.375E+06	5.226E+04	800
120.0	14.7	1165	2.562E+06	9.736E+04	800
120.0	16.8	879	1.934E+06	7.349E+04	800
120.0	21.0	702	1.544E+06	5.868E+04	800
120.0	25.2	443	9.748E+07	3.704E+06	800
120.0	29.4	405	8.906E+07	3.384E+06	800
120.0	33.6	217	4.777E+07	1.815E+06	800
120.0	37.8	176	3.970E+07	1.471E+06	800
120.0	42.0	142	3.141E+07	1.194E+06	800

TEST FT68 JULY 30, 1962 2107 TO 2152 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	E/Q 1/SQ.M	DISTANCE METERS
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83.0	3	7.080E-09	2.690E-08	1600
84.0	8	1.770E-08	6.726E-08	1600
85.0	3	7.080E-09	2.690E-08	1600
86.0	4	1.062E-08	4.035E-08	1600
87.0	4	1.062E-08	4.035E-08	1600
88.0	1	3.540E-09	1.345E-08	1600
89.0	11	2.478E-08	9.416E-08	1600
90.0	3	7.080E-09	2.690E-08	1600
91.0	4	1.062E-08	4.035E-08	1600
92.0	0	0.000E+00	0.000E+00	1600
93.0	6	1.416E-08	5.380E-08	1600
94.0	14	3.186E-08	1.211E-07	1600
95.0	0	0.000E+00	0.000E+00	1600
96.0	0	0.000E+00	0.000E+00	1600
97.0	0	0.000E+00	0.000E+00	1600
98.0	0	0.000E+00	0.000E+00	1600
99.0	3	7.080E-09	2.690E-08	1600
100.0	38	8.495E-08	3.228E-07	1600
101.0	43	9.557E-08	3.632E-07	1600
102.0	24	5.310E-08	2.018E-07	1600
103.0	24	5.310E-08	2.018E-07	1600
104.0	12	2.832E-08	1.076E-07	1600
105.0	35	7.788E-08	2.959E-07	1600
106.0	17	3.894E-08	1.480E-07	1600
107.0	14	3.186E-08	1.211E-07	1600
108.0	8	1.770E-08	6.726E-08	1600
109.0	19	4.248E-08	1.614E-07	1600
110.0	35	7.788E-08	2.959E-07	1600
111.0	40	8.809E-08	3.363E-07	1600
112.0	28	6.372E-08	2.421E-07	1600
113.0	6	1.416E-08	5.380E-08	1600
114.0	17	3.894E-08	1.480E-07	1600
115.0	41	9.203E-08	3.497E-07	1600
116.0	16	3.540E-08	1.345E-07	1600
117.0	12	2.832E-08	1.076E-07	1600
118.0	37	8.142E-08	3.094E-07	1600
119.0	17	3.894E-08	1.480E-07	1600
120.0	19	4.248E-08	1.614E-07	1600
121.0	70	1.558E-07	5.919E-07	1600
122.0	268	5.911E-07	2.286E-06	1600
123.0	265	5.881E-07	2.219E-06	1600
124.0	599	1.317E-06	5.004E-06	1600
125.0	1108	2.524E-06	9.591E-06	1600
126.0	1369	3.009E-06	1.143E-05	1600
127.0	1802	3.961E-06	1.505E-05	1600
128.0	787	1.731E-06	6.578E-06	1600
129.0	4988	1.096E-05	4.166E-05	1600
130.0	4171	9.168E-06	3.480E-05	1600
131.0	4907	1.087E-05	4.132E-05	1600
132.0	3760	8.265E-06	3.141E-05	1600
133.0	7628	7.975E-06	3.031E-05	1600
134.0	2217	8.874E-06	1.852E-05	1600
135.0	1604	3.526E-06	1.300E-05	1600
136.0	75	1.664E-07	6.322E-07	1600
137.0	389	8.566E-07	3.255E-06	1600
138.0	95	2.088E-07	7.936E-07	1600
139.0	49	1.097E-07	4.170E-07	1600
140.0	0	0.000E+00	0.000E+00	1600
141.0	11	2.478E-08	9.416E-08	1600
142.0	8	1.770E-08	6.726E-08	1600

CROSSWIND INTEGRATED= 2.016E-03 7.659E-03
SEC/90.M 1/M

TEST FT68 JULY 30, 1962 2107 TO 2152 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	E/Q 1/SQ.M	DISTANCE METERS
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109.0	2	6.110E-09	2.322E-08	3200
110.0	1	4.074E-09	1.548E-08	3200
111.0	5	1.222E-08	4.644E-08	3200
112.0	13	3.055E-08	1.161E-07	3200
113.0	0	0.000E+00	0.000E+00	3200
114.0	20	4.481E-08	1.703E-07	3200
115.0	0	2.037E-09	7.740E-09	3200
116.0	0	0.000E+00	0.000E+00	3200
117.0	0	0.000E+00	0.000E+00	3200
118.0	0	2.037E-09	7.740E-09	3200
119.0	2	6.110E-09	2.322E-08	3200
120.0	3	8.147E-09	3.096E-08	3200
121.0	9	2.037E-08	7.740E-08	3200
122.0	27	6.110E-08	2.322E-07	3200
123.0	113	2.505E-07	9.520E-07	3200
124.0	239	5.255E-07	1.997E-06	3200
125.0	298	6.558E-07	2.492E-06	3200
126.0	415	9.125E-07	3.467E-06	3200
127.0	547	1.204E-06	4.574E-06	3200
128.0	1113	2.446E-06	9.296E-06	3200
129.0	1397	3.071E-06	1.167E-05	3200
130.0	1562	3.434E-06	1.305E-05	3200
131.0	960	2.110E-06	8.018E-06	3200
132.0	605	1.330E-06	5.054E-06	3200
133.0	188	4.135E-07	1.571E-06	3200
134.0	27	6.110E-08	2.322E-07	3200
135.0	0	0.000E+00	0.000E+00	3200
136.0	0	0.000E+00	0.000E+00	3200
137.0	0	0.000E+00	0.000E+00	3200
138.0	0	0.000E+00	0.000E+00	3200

CROSSWIND INTEGRATED= 9.278E-04 3.526E-03
SEC/90.M 1/M

30-SERIES EXPERIMENT: 69 (FT-69)
 GROUND LEVEL AND TOWER SAMPLING 200 AND 800 M ARCS. GROUND LEVEL
 SAMPLING ONLY 1600-12800 M ARCS. DUST AND CARBON DEPOSITS ON THE
 FILTERS COLLECTED FROM THE 12800 M ARC.

TEST FT69 JULY 31, 1962 2130 TO 2230 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 200M ARC SAMPLER HT 1.5M U= 4.5 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
68.0	32	2.597E-08	1.168E-07		200
70.0	114	9.212E-08	4.155E-07		200
72.0	41	3.318E-08	1.493E-07		200
74.0	35	2.885E-08	1.298E-07		200
76.0	42	3.462E-08	1.558E-07		200
78.0	26	2.148E-08	9.737E-08		200
80.0	42	3.462E-08	1.558E-07		200
82.0	200	1.616E-07	7.270E-07		200
84.0	4855	3.912E-06	1.760E-05		200
86.0	8431	6.794E-06	3.057E-05		200
88.0	17703	1.427E-05	6.419E-05		200
90.0	16357	1.318E-05	5.931E-05		200
92.0	12842	1.035E-05	4.657E-05		200
94.0	15245	1.228E-05	5.528E-05		200
96.0	9226	7.435E-06	3.346E-05		200
98.0	30684	2.473E-05	1.113E-04		200
100.0	50313	4.054E-05	1.824E-04		200
102.0	69993	5.640E-05	2.538E-04		200
104.0	79304	5.987E-05	2.694E-04		200
106.0	79309	6.391E-05	2.876E-04		200
108.0	96936	7.811E-05	3.515E-04		200
110.0	126261	1.017E-04	4.578E-04		200
112.0	140690	1.134E-04	5.102E-04		200
114.0	111644	8.996E-05	4.048E-04		200
116.0	167792	1.352E-04	6.084E-04		200
118.0	155828	1.256E-04	5.651E-04		200
120.0	120419	9.763E-05	4.367E-04		200
122.0	92422	7.447E-05	3.351E-04		200
124.0	75512	6.085E-05	2.738E-04		200
126.0	64807	5.222E-05	2.350E-04		200
128.0	49277	3.971E-05	1.787E-04		200
130.0	54400	4.387E-05	1.974E-04		200
132.0	62288	5.019E-05	2.259E-04		200
134.0	63788	5.134E-05	2.310E-04		200
136.0	54298	4.375E-05	1.969E-04		200
138.0	35703	2.877E-05	1.295E-04		200
140.0	19932	1.606E-05	7.228E-05		200
142.0	8473	6.828E-06	3.072E-05		200
144.0	2237	1.803E-06	8.114E-06		200
146.0	587	4.732E-07	2.129E-06		200
148.0	531	4.240E-07	1.928E-06		200
150.0	529	4.270E-07	1.921E-06		200
152.0	21	1.731E-08	7.790E-08		200
154.0	25	2.020E-08	9.088E-08		200
156.0	8	7.213E-09	3.246E-08		200
158.0	1	1.443E-09	6.491E-09		200

CROSSWIND INTEGRATED= 1.066E-02
 SEC/90.M 4.795E-02
 1/M

TOWER DATA FOLLOW...

TEST FT69 JULY 31, 1962 2130 TO 2230 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 200M ARC U= 4.5 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.3	40653	3.276E-05	1.474E-04	200
98.0	0.7	42676	3.439E-05	1.547E-04	200
98.0	1.4	17499	1.410E-05	6.345E-05	200
98.0	2.7	17431	1.405E-05	6.321E-05	200
98.0	4.1	19559	1.576E-05	7.093E-05	200
98.0	5.4	17526	1.412E-05	6.355E-05	200
98.0	6.8	16852	1.358E-05	6.111E-05	200
98.0	8.1	13493	1.087E-05	4.893E-05	200
98.0	9.4	12319	9.927E-06	4.467E-05	200
98.0	10.8	10891	8.777E-06	3.949E-05	200
98.0	13.5	7459	6.011E-06	2.705E-05	200
98.0	16.2	4779	3.851E-06	1.733E-05	200
98.0	18.9	3369	2.715E-06	1.222E-05	200
98.0	21.6	3178	2.561E-06	1.153E-05	200
98.0	24.3	2058	1.659E-06	7.465E-06	200
98.0	27.0	1908	1.538E-06	6.922E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.3	127789	1.030E-04	4.634E-04	200
106.0	0.7	73255	5.903E-05	2.656E-04	200
106.0	1.4	41695	3.360E-05	1.512E-04	200
106.0	2.7	52554	4.235E-05	1.906E-04	200
106.0	4.1	47888	3.859E-05	1.736E-04	200
106.0	5.4	41645	3.356E-05	1.510E-04	200
106.0	6.8	44034	3.548E-05	1.597E-04	200
106.0	8.1	39388	3.174E-05	1.428E-04	200
106.0	9.4	35824	2.887E-05	1.299E-04	200
106.0	10.8	34539	2.783E-05	1.252E-04	200
106.0	13.5	22504	1.813E-05	8.161E-05	200
106.0	16.2	16099	1.297E-05	5.838E-05	200
106.0	18.9	11232	9.052E-06	4.073E-05	200
106.0	21.6	7962	6.416E-06	2.887E-05	200
106.0	24.3	3793	3.056E-06	1.375E-05	200
106.0	27.0	2945	2.406E-06	1.083E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.3	121232	9.769E-05	4.396E-04	200
114.0	0.7	148242	1.195E-04	5.375E-04	200
114.0	1.4	70030	5.643E-05	2.539E-04	200
114.0	2.7	81927	6.602E-05	2.971E-04	200
114.0	4.1	73348	5.910E-05	2.660E-04	200
114.0	5.4	71893	5.793E-05	2.607E-04	200
114.0	6.8	74955	6.040E-05	2.718E-04	200
114.0	8.1	66410	5.351E-05	2.408E-04	200
114.0	9.4	48696	3.924E-05	1.766E-04	200
114.0	10.8	47915	3.861E-05	1.737E-04	200
114.0	13.5	41605	3.353E-05	1.509E-04	200
114.0	16.2	23634	1.905E-05	8.570E-05	200
114.0	18.9	19198	1.547E-05	6.962E-05	200
114.0	21.6	10798	8.702E-06	3.916E-05	200
114.0	24.3	5196	4.187E-06	1.884E-05	200
114.0	27.0	3752	3.024E-06	1.361E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
122.0	0.3	130213	1.049E-04	4.722E-04	200
122.0	0.7	155251	1.251E-04	5.630E-04	200
122.0	1.4	63584	5.124E-05	2.306E-04	200
122.0	2.7	57838	4.661E-05	2.097E-04	200
122.0	4.1	47603	3.836E-05	1.726E-04	200
122.0	5.4	62038	4.999E-05	2.250E-04	200
122.0	6.8	60044	4.838E-05	2.177E-04	200
122.0	8.1	51564	4.155E-05	1.870E-04	200
122.0	9.4	40203	3.240E-05	1.458E-04	200
122.0	10.8	40855	3.292E-05	1.481E-04	200
122.0	13.5	27798	2.240E-05	1.008E-04	200
122.0	16.2	18986	1.530E-05	6.885E-05	200
122.0	18.9	13729	1.106E-05	4.978E-05	200
122.0	21.6	10971	8.840E-06	3.978E-05	200
122.0	24.3	5376	4.333E-06	1.950E-05	200
122.0	27.0	4443	3.581E-06	1.611E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
130.0	0.3	65676	5.292E-05	2.381E-04	200
130.0	0.7	81212	6.544E-05	2.945E-04	200
130.0	1.4	31274	2.520E-05	1.134E-04	200
130.0	2.7	32890	2.650E-05	1.193E-04	200
130.0	4.1	28941	2.332E-05	1.049E-04	200
130.0	5.4	34405	2.772E-05	1.248E-04	200
130.0	6.8	30262	2.439E-05	1.097E-04	200
130.0	8.1	27451	2.212E-05	9.954E-05	200
130.0	9.4	2618	2.110E-06	9.497E-06	200
130.0	10.8	23576	1.900E-05	8.549E-05	200
130.0	13.5	21090	1.700E-05	7.648E-05	200
130.0	16.2	15603	1.257E-05	5.658E-05	200
130.0	18.9	11513	9.278E-06	4.175E-05	200
130.0	21.6	6998	5.639E-06	2.538E-05	200
130.0	24.3	4285	3.453E-06	1.554E-05	200
130.0	27.0	2925	2.358E-06	1.061E-05	200

TEST FT69 JULY 31, 1962 2130 TO 2230 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ARC SAMPLER HT 1.5M U= 4.5 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
82.0	1	1.395E-09	6.279E-09	800
84.0	19	1.535E-08	6.907E-08	800
86.0	76	6.180E-08	2.763E-07	800
88.0	39	3.209E-08	1.444E-07	800
90.0	183	1.879E-07	6.656E-07	800
92.0	957	7.717E-07	3.472E-06	800
94.0	1044	8.414E-07	3.786E-06	800
96.0	2142	1.726E-06	7.768E-06	800
98.0	2933	2.364E-06	1.064E-05	800
100.0	2505	2.019E-06	9.086E-06	800
102.0	1085	8.749E-07	3.937E-06	800
104.0	5020	4.085E-06	1.820E-05	800
106.0	6663	5.370E-06	2.416E-05	800
108.0	4322	3.843E-06	1.567E-05	800
110.0	7995	6.443E-06	2.899E-05	800
112.0	7616	6.137E-06	2.762E-05	800
114.0	10263	8.271E-06	3.722E-05	800
116.0	10866	8.756E-06	3.940E-05	800
118.0	8265	6.660E-06	2.997E-05	800
120.0	6360	5.175E-06	2.306E-05	800
122.0	4829	3.892E-06	1.751E-05	800
124.0	2807	2.262E-06	1.018E-05	800
126.0	2199	1.772E-06	7.975E-06	800
128.0	2384	1.921E-06	8.647E-06	800
130.0	2325	1.874E-06	8.433E-06	800
132.0	3853	3.185E-06	1.397E-05	800
134.0	3125	2.519E-06	1.133E-05	800
136.0	5134	4.137E-06	1.862E-05	800
138.0	2578	2.078E-06	9.350E-06	800
140.0	851	6.845E-07	3.089E-06	800
142.0	129	1.047E-07	4.710E-07	800
144.0	0	0.000E+00	0.000E+00	800

CROSSWIND INTEGRATED= 2.043E-03
SEC/SQ.M 1.100E-02
1/M

TONER DATA FOLLOW....

TEST FT69 JULY 31, 1962 2130 TO 2230 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ARC SAMPLER HT 1.5M U= 4.5 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
98.0	0.3	3822	3.080E-06	1.386E-05	800
98.0	0.5	3275	2.640E-06	1.188E-05	800
98.0	1.0	1408	1.135E-06	5.108E-06	800
98.0	2.1	1412	1.138E-06	5.123E-06	800
98.0	4.2	1829	1.474E-06	6.634E-06	800
98.0	6.3	1801	1.452E-06	6.534E-06	800
98.0	8.4	2167	1.747E-06	7.860E-06	800
98.0	10.5	1771	1.427E-06	6.423E-06	800
98.0	12.6	1677	1.352E-06	6.082E-06	800
98.0	14.7	1840	1.483E-06	6.675E-06	800
98.0	16.8	1621	1.306E-06	5.878E-06	800
98.0	21.0	1279	1.031E-06	4.641E-06	800
98.0	25.2	859	6.922E-07	3.115E-06	800
98.0	29.0	745	6.011E-07	2.705E-06	800
98.0	33.6	483	3.897E-07	1.754E-06	800
98.0	37.8	449	3.624E-07	1.631E-06	800
98.0	42.0	357	2.880E-07	1.296E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
106.0	0.3	7511	6.053E-06	2.724E-05	800	130.0	0.3	3039	2.449E-06	1.102E-05	800
106.0	0.5	7787	6.275E-06	2.824E-05	800	130.0	0.5	2842	2.291E-06	1.031E-05	800
106.0	1.0	3510	2.829E-06	1.273E-05	800	130.0	1.0	571	4.601E-07	2.071E-06	800
106.0	2.1	4112	3.314E-06	1.491E-05	800	130.0	2.1	1517	1.223E-06	5.504E-06	800
106.0	4.2	4514	3.637E-06	1.637E-05	800	130.0	4.2	1796	1.448E-06	6.516E-06	800
106.0	6.3	4926	3.970E-06	1.786E-05	800	130.0	6.3	1800	1.451E-06	6.530E-06	800
106.0	8.4	4711	3.796E-06	1.708E-05	800	130.0	8.4	2068	1.667E-06	7.501E-06	800
106.0	10.5	4811	3.877E-06	1.745E-05	800	130.0	10.5	1638	1.482E-06	6.667E-06	800
106.0	12.6	4261	3.434E-06	1.545E-05	800	130.0	12.6	2076	1.673E-06	7.530E-06	800
106.0	14.7	4736	3.817E-06	1.718E-05	800	130.0	14.7	2002	1.613E-06	7.260E-06	800
106.0	16.8	4740	3.852E-06	1.734E-05	800	130.0	16.8	1633	1.316E-06	5.923E-06	800
106.0	21.0	3161	2.548E-06	1.146E-05	800	130.0	21.0	1793	1.445E-06	6.504E-06	800
106.0	25.2	2420	1.951E-06	8.778E-06	800	130.0	25.2	1166	9.396E-07	4.220E-06	800
106.0	29.4	2160	1.741E-06	7.835E-06	800	130.0	29.4	910	7.335E-07	3.301E-06	800
106.0	33.6	1651	1.330E-06	5.987E-06	800	130.0	33.6	827	6.667E-07	3.000E-06	800
106.0	37.8	1279	1.031E-06	4.639E-06	800	130.0	37.8	822	6.626E-07	2.982E-06	800
106.0	42.0	1016	8.184E-07	3.685E-06	800	130.0	42.0	904	7.288E-07	3.280E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
114.0	0.3	12851	1.036E-05	4.660E-05	800
114.0	0.5	11592	9.342E-06	4.204E-05	800
114.0	1.0	5671	4.570E-06	2.057E-05	800
114.0	2.1	6752	5.441E-06	2.444E-05	800
114.0	4.2	7809	6.293E-06	2.832E-05	800
114.0	6.3	7864	6.337E-06	2.852E-05	800
114.0	8.4	5520	4.448E-06	2.002E-05	800
114.0	10.5	7596	6.122E-06	2.755E-05	800
114.0	12.6	6812	5.490E-06	2.470E-05	800
114.0	14.7	6183	4.982E-06	2.242E-05	800
114.0	16.8	6236	5.025E-06	2.261E-05	800
114.0	21.0	6512	5.248E-06	2.361E-05	800
114.0	25.2	4143	3.339E-06	1.502E-05	800
114.0	29.4	2936	2.366E-06	1.065E-05	800
114.0	33.6	3004	2.421E-06	1.089E-05	800
114.0	37.8	2180	1.757E-06	7.905E-06	800
114.0	42.0	1873	1.509E-06	6.792E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
122.0	0.3	5636	4.542E-06	2.044E-05	800
122.0	0.5	5078	4.092E-06	1.842E-05	800
122.0	1.0	2502	2.017E-06	9.075E-06	800
122.0	2.1	3024	2.437E-06	1.097E-05	800
122.0	4.2	2955	2.381E-06	1.072E-05	800
122.0	6.3	2797	2.255E-06	1.015E-05	800
122.0	8.4	3330	2.683E-06	1.208E-05	800
122.0	10.5	3260	2.627E-06	1.182E-05	800
122.0	12.6	3021	2.435E-06	1.096E-05	800
122.0	14.7	3100	2.498E-06	1.124E-05	800
122.0	16.8	2825	2.277E-06	1.025E-05	800
122.0	21.0	3058	2.464E-06	1.109E-05	800
122.0	25.2	2149	1.732E-06	7.796E-06	800
122.0	29.4	1839	1.483E-06	6.672E-06	800
122.0	33.6	1609	1.297E-06	5.836E-06	800
122.0	37.8	1110	8.949E-07	4.027E-06	800
122.0	42.0	1439	1.160E-06	5.221E-06	800

TEST F169 JULY 31, 1962 2130 TO 2230 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 4.5 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM	F/D SEC/CM	EU/D 1/SG,M	DISTANCE METERS
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89.0	5	4.470E-09	2.011E-08	1600
90.0	4	3.352E-09	1.509E-08	1600
91.0	6	5.587E-09	2.514E-08	1600
92.0	22	1.788E-08	8.046E-08	1600
93.0	18	1.453E-08	6.537E-08	1600
94.0	158	1.274E-07	5.732E-07	1600
95.0	251	2.023E-07	9.102E-07	1600
96.0	360	2.905E-07	1.307E-06	1600
97.0	259	2.090E-07	9.403E-07	1600
98.0	471	3.799E-07	1.710E-06	1600
99.0	651	5.252E-07	2.363E-06	1600
100.0	708	5.710E-07	2.570E-06	1600
101.0	949	7.654E-07	3.445E-06	1600
102.0	1144	9.219E-07	4.148E-06	1600
103.0	1239	9.940E-07	4.495E-06	1600
104.0	1594	1.285E-06	5.783E-06	1600
105.0	1862	1.501E-06	6.753E-06	1600
106.0	2401	1.935E-06	8.709E-06	1600
107.0	2464	1.986E-06	8.936E-06	1600
108.0	2686	2.164E-06	9.740E-06	1600
109.0	3464	2.791E-06	1.256E-05	1600
110.0	2812	2.266E-06	1.020E-05	1600
111.0	3275	2.639E-06	1.188E-05	1600
112.0	2905	2.301E-06	1.053E-05	1600
113.0	2862	2.306E-06	1.038E-05	1600
114.0	2378	1.916E-06	8.624E-06	1600
115.0	2197	1.771E-06	7.970E-06	1600
116.0	1607	1.295E-06	5.828E-06	1600
117.0	1403	1.131E-06	5.089E-06	1600
118.0	1191	9.599E-07	4.319E-06	1600
119.0	870	7.018E-07	3.158E-06	1600
120.0	788	6.436E-07	2.896E-06	1600
121.0	676	5.453E-07	2.450E-06	1600
122.0	714	5.755E-07	2.590E-06	1600
123.0	488	3.933E-07	1.770E-06	1600
124.0	493	3.978E-07	1.790E-06	1600
125.0	420	3.386E-07	1.524E-06	1600
126.0	682	5.498E-07	2.474E-06	1600
127.0	687	5.543E-07	2.494E-06	1600
128.0	148	1.196E-07	5.380E-07	1600
129.0	700	5.643E-07	2.539E-06	1600
130.0	897	7.230E-07	3.253E-06	1600
131.0	987	7.956E-07	3.580E-06	1600
132.0	990	7.979E-07	3.590E-06	1600
133.0	1397	1.126E-06	5.069E-06	1600
134.0	1214	9.789E-07	4.405E-06	1600
135.0	958	7.722E-07	3.475E-06	1600
136.0	137	1.106E-07	4.978E-07	1600
137.0	257	2.078E-07	9.353E-07	1600
138.0	27	2.235E-08	1.006E-07	1600
139.0	9	7.822E-09	3.520E-08	1600
140.0	4	3.352E-09	1.509E-08	1600
141.0	1	1.137E-09	5.028E-09	1600

CROSSWIND INTEGRATED= 1.236E-03 5.562E-03
SEC/SG,M 1/M

TEST F169 JULY 31, 1962 2130 TO 2230 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1200M ARC SAMPLER HT 1.5M U= 4.5 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM	F/D SEC/CM	EU/D 1/SG,M	DISTANCE METERS
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95.0	0	6.660E-10	2.997E-09	3200
96.0	0	3.330E-09	1.498E-08	3200
97.0	32	2.597E-08	1.169E-07	3200
98.0	40	3.263E-08	1.449E-07	3200
99.0	73	5.927E-08	2.667E-07	3200
100.0	138	1.112E-07	5.005E-07	3200
101.0	241	1.945E-07	8.751E-07	3200
102.0	361	2.910E-07	1.310E-06	3200
103.0	240	1.938E-07	8.721E-07	3200
104.0	320	2.580E-07	1.163E-06	3200
105.0	814	6.567E-07	2.955E-06	3200
106.0	640	5.161E-07	2.323E-06	3200
107.0	1107	9.251E-07	4.163E-06	3200
108.0	830	6.693E-07	3.012E-06	3200
109.0	852	6.873E-07	3.093E-06	3200
110.0	1166	9.397E-07	4.229E-06	3200
111.0	1195	9.630E-07	4.334E-06	3200
112.0	1538	1.200E-06	5.580E-06	3200
113.0	1102	8.884E-07	3.998E-06	3200
114.0	688	5.588E-07	2.496E-06	3200
115.0	419	3.383E-07	1.522E-06	3200
116.0	46	3.730E-08	1.678E-07	3200
117.0	236	1.905E-07	8.571E-07	3200
118.0	279	2.251E-07	1.013E-06	3200
119.0	275	2.218E-07	9.980E-07	3200
120.0	203	1.638E-07	7.372E-07	3200
121.0	180	1.452E-07	6.533E-07	3200
122.0	244	1.971E-07	8.871E-07	3200
123.0	216	1.745E-07	7.852E-07	3200
124.0	228	1.838E-07	8.272E-07	3200
125.0	346	2.790E-07	1.256E-06	3200
126.0	275	2.218E-07	9.980E-07	3200
127.0	350	2.824E-07	1.271E-06	3200
128.0	366	2.957E-07	1.331E-06	3200
129.0	238	1.918E-07	8.631E-07	3200
130.0	268	2.164E-07	9.740E-07	3200
131.0	202	1.632E-07	7.343E-07	3200
132.0	131	1.059E-07	4.765E-07	3200
133.0	17	1.399E-08	6.294E-08	3200
134.0	23	1.845E-08	8.391E-08	3200
135.0	0	0.000E+00	0.000E+00	3200
136.0	0	0.000E+00	0.000E+00	3200

CROSSWIND INTEGRATED= 7.192E-04 3.236E-03
SEC/SG,M 1/M

TEST #169 JULY 31, 1962 2130 TO 2230 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 1200M APC SAMPLER AT 1.5M VE 4.5 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE MIN-SEC/CM	F/G SEC/CM	E/G 1/SQ.M	DISTANCE METERS X10E+6
4 105.0	12	9.895E-09	4.453E-08	12000
5 106.0	25	2.069E-08	9.310E-08	12000
4 107.0	58	4.745E-08	2.135E-07	12000
4 108.0	61	4.970E-08	2.236E-07	12000
4 109.0	214	1.729E-07	7.782E-07	12000
4 110.0	212	1.871E-07	8.419E-07	12000
4 111.0	209	1.684E-07	7.579E-07	12000
5 112.0	192	1.547E-07	6.962E-07	12000
4 113.0	130	1.065E-07	4.746E-07	12000
4 114.0	55	4.475E-08	2.014E-07	12000
4 115.0	35	2.833E-08	1.275E-07	12000
4 116.0	19	1.574E-08	7.084E-08	12000
4 117.0	14	2.743E-08	1.235E-07	12000
4 118.0	48	3.913E-08	1.761E-07	12000
4 119.0	60	4.880E-08	2.196E-07	12000
4 120.0	57	4.655E-08	2.095E-07	12000
4 122.0	50	4.088E-08	1.822E-07	12000
3 122.0	10	2.496E-08	1.123E-07	12000
3 124.0	3	2.474E-09	1.113E-08	12000
3 125.0	2	2.024E-09	9.108E-09	12000
4 126.0	0	0.000E+00	0.000E+00	12000
3 127.0	0	0.000E+00	0.000E+00	12000

CROSS-SECTION INTEGRATED= 2.818E-09 1.268E-03
 SEC/SQ.M 1/M

30-SERIES EXPERIMENT: 70 (FT-70)
GROUND LEVEL AND TOWER SAMPLING 200 AND 800 M ARCS, GROUND LEVEL
SAMPLING ONLY 1600-12800 M ARCS. DUST AND CARBON DEPOSITS ON THE
FILTERS COLLECTED FROM THE 12800 M ARC.

TEST F170 AUGUST 1, 1962 2141 TO 2256 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 2.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	FU/Q 1/SG.M	DISTANCE METERS
68.0	7	8.619E-09	2.500E-08	200
70.0	0	0.000E+00	0.000E+00	200
72.0	20	2.299E-08	6.666E-08	200
74.0	20	2.299E-08	6.666E-08	200
76.0	60	6.608E-08	1.916E-07	200
78.0	31	3.448E-08	9.998E-08	200
80.0	20	2.299E-08	6.666E-08	200
82.0	44	4.884E-08	1.416E-07	200
84.0	45	7.143E-08	2.003E-07	200
86.0	31	3.448E-08	9.998E-08	200
88.0	151	1.646E-07	4.833E-07	200
90.0	219	2.413E-07	6.999E-07	200
92.0	1219	1.319E-06	3.883E-06	200
94.0	4596	5.045E-06	1.463E-05	200
96.0	18981	2.080E-05	6.042E-05	200
98.0	31178	3.422E-05	9.925E-05	200
100.0	38397	4.215E-05	1.222E-04	200
102.0	44004	4.830E-05	1.401E-04	200
104.0	52212	5.741E-05	1.662E-04	200
106.0	78870	8.658E-05	2.511E-04	200
108.0	103977	1.101E-04	3.310E-04	200
110.0	134522	1.477E-04	4.282E-04	200
112.0	192979	2.118E-04	6.143E-04	200
114.0	213304	2.301E-04	6.790E-04	200
116.0	236727	2.599E-04	7.536E-04	200
118.0	261383	2.869E-04	8.321E-04	200
120.0	212272	2.310E-04	6.757E-04	200
122.0	309915	3.402E-04	9.866E-04	200
124.0	318295	3.493E-04	1.013E-03	200
126.0	139396	1.530E-04	4.437E-04	200
128.0	89269	9.799E-05	2.842E-04	200
130.0	66137	7.240E-05	2.105E-04	200
132.0	48712	5.347E-05	1.551E-04	200
134.0	30927	3.395E-05	9.845E-05	200
136.0	11555	1.248E-05	3.679E-05	200
138.0	1748	1.919E-06	5.566E-06	200
140.0	366	4.022E-07	1.166E-06	200
142.0	70	7.757E-08	2.250E-07	200
144.0	41	4.597E-08	1.333E-07	200
146.0	26	2.873E-08	8.332E-08	200
148.0	0	0.000E+00	0.000E+00	200

CROSS-AND INTEGRATED= 2.024E-02 SEC/SG.M
5.871E-02 1/M

TOWER DATA FOLLOW....

TEST F170 AUGUST 1, 1962 2141 TO 2256 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 2.9 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	FU/Q 1/SG.M	DISTANCE METERS
98.0	0.3	37256	4.090E-05	1.186E-04	200
98.0	0.7	37522	4.119E-05	1.194E-04	200
98.0	1.4	21537	2.364E-05	6.856E-05	200
98.0	2.7	20865	2.290E-05	6.642E-05	200
98.0	4.1	17485	1.919E-05	5.566E-05	200
98.0	5.4	16544	1.816E-05	5.267E-05	200
98.0	6.8	14203	1.559E-05	4.521E-05	200
98.0	8.1	7737	8.493E-06	2.463E-05	200
98.0	9.4	9577	1.051E-05	3.049E-05	200
98.0	10.8	10417	1.183E-05	3.316E-05	200
98.0	13.5	7910	8.683E-06	2.518E-05	200
98.0	16.2	5525	6.065E-06	1.759E-05	200
98.0	18.9	2756	3.026E-06	8.775E-06	200
98.0	21.6	1426	1.566E-06	4.540E-06	200
98.0	24.3	526	5.778E-07	1.675E-06	200
98.0	27.0	282	3.096E-07	8.979E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	FU/Q 1/SG.M	DISTANCE METERS
106.0	0.3	85106	9.342E-05	2.709E-04	200
106.0	0.7	87779	9.635E-05	2.794E-04	200
106.0	1.4	52582	5.772E-05	1.674E-04	200
106.0	2.7	43817	4.810E-05	1.395E-04	200
106.0	4.1	59811	6.566E-05	1.904E-04	200
106.0	5.4	56023	6.150E-05	1.783E-04	200
106.0	6.8	50684	5.564E-05	1.613E-04	200
106.0	8.1	49040	5.383E-05	1.561E-04	200
106.0	9.4	35884	3.939E-05	1.102E-04	200
106.0	10.8	39948	4.385E-05	1.272E-04	200
106.0	13.5	26986	2.962E-05	8.591E-05	200
106.0	16.2	16307	1.790E-05	5.191E-05	200
106.0	18.9	10712	1.176E-05	3.410E-05	200
106.0	21.6	5389	5.916E-06	1.716E-05	200
106.0	24.3	2398	2.633E-06	7.636E-06	200
106.0	27.0	1453	1.595E-06	4.626E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	FU/Q 1/SG.M	DISTANCE METERS
114.0	0.3	166775	1.831E-04	5.309E-04	200
114.0	0.7	238053	2.613E-04	7.578E-04	200
114.0	1.4	141615	1.555E-04	4.508E-04	200
114.0	2.7	164476	1.805E-04	5.236E-04	200
114.0	4.1	150913	1.657E-04	4.804E-04	200
114.0	5.4	140963	1.547E-04	4.487E-04	200
114.0	6.8	117755	1.293E-04	3.749E-04	200
114.0	8.1	121358	1.332E-04	3.863E-04	200
114.0	9.4	107858	1.184E-04	3.433E-04	200
114.0	10.8	98724	1.062E-04	3.079E-04	200
114.0	13.5	75663	8.306E-05	2.409E-04	200
114.0	16.2	49901	5.478E-05	1.589E-04	200
114.0	18.9	33520	3.600E-05	1.067E-04	200
114.0	21.6	19877	2.182E-05	6.328E-05	200
114.0	24.3	10614	1.165E-05	3.379E-05	200
114.0	27.0	5513	6.053E-06	1.755E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
122.0	0.3	30357	3.332E-04	9.664E-04	200
122.0	0.7	304130	3.332E-04	9.681E-04	200
122.0	1.0	201690	2.214E-04	6.420E-04	200
122.0	2.7	209738	2.302E-04	6.677E-04	200
122.0	4.1	200695	2.203E-04	6.389E-04	200
122.0	5.0	190625	2.092E-04	6.068E-04	200
122.0	6.8	192410	2.112E-04	6.125E-04	200
122.0	8.1	123687	1.358E-04	3.937E-04	200
122.0	9.0	131660	1.445E-04	4.191E-04	200
122.0	10.8	110985	1.218E-04	3.532E-04	200
122.0	13.5	74842	8.215E-05	2.382E-04	200
122.0	16.2	85941	5.043E-05	1.462E-04	200
122.0	18.9	25860	2.839E-05	8.232E-05	200
122.0	21.6	14880	1.633E-05	4.737E-05	200
122.0	24.3	5929	6.509E-06	1.888E-05	200
122.0	27.0	3710	4.073E-06	1.181E-05	200

TEST F170 AUGUST 1, 1962 2141 TO 2256 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ARC SAMPLER HT 1.5M U= 2.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
70.0	15	1.668E-08	4.836E-08	800
72.0	0	0.000E+00	0.000E+00	800
74.0	15	1.668E-08	4.836E-08	800
76.0	35	3.891E-08	1.128E-07	800
78.0	0	0.000E+00	0.000E+00	800
80.0	0	0.000E+00	0.000E+00	800
82.0	0	0.000E+00	0.000E+00	800
84.0	5	5.558E-09	1.612E-08	800
86.0	5	5.558E-09	1.612E-08	800
88.0	15	1.668E-08	4.836E-08	800
90.0	2	2.779E-09	8.060E-09	800
92.0	35	3.891E-08	1.128E-07	800
94.0	20	2.223E-08	6.408E-08	800
96.0	25	2.779E-08	8.060E-08	800
98.0	60	6.670E-08	1.934E-07	800
100.0	108	1.195E-07	3.466E-07	800
102.0	116	1.278E-07	3.708E-07	800
104.0	2481	2.724E-06	7.899E-06	800
106.0	5099	5.597E-06	1.623E-05	800
108.0	2377	2.610E-06	7.568E-06	800
110.0	10990	1.206E-05	3.499E-05	800
112.0	11370	1.288E-05	3.620E-05	800
114.0	15016	1.648E-05	4.780E-05	800
116.0	20463	2.685E-05	7.787E-05	800
118.0	28369	3.114E-05	9.031E-05	800
120.0	23961	2.630E-05	7.678E-05	800
122.0	26225	2.879E-05	8.348E-05	800
124.0	17171	1.845E-05	5.466E-05	800
126.0	13459	1.477E-05	4.285E-05	800
128.0	12064	1.324E-05	3.840E-05	800
130.0	10233	1.123E-05	3.258E-05	800
132.0	7451	8.179E-06	2.372E-05	800
134.0	3924	4.308E-06	1.249E-05	800
136.0	1382	1.517E-06	4.401E-06	800
138.0	331	3.641E-07	1.056E-06	800
140.0	17	1.905E-08	5.642E-08	800
142.0	17	1.905E-08	5.642E-08	800
144.0	7	8.33E-09	2.418E-08	800

CROSSWIND INTEGRATED= 6.64E-03 1.92E-02
SEC/SQ.M 1/M

TOKEN DATA FOLLOW....

TEST F170 AUGUST 1, 1962 2141 TO 2256 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM APC U= 2.9 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
98.0	0.3	59	6.481E-08	1.879E-07	800
98.0	0.5	31	3.411E-08	9.892E-08	800
98.0	1.0	10	1.112E-08	3.225E-08	800
98.0	2.1	25	2.781E-08	8.068E-08	800
98.0	4.2	55	6.117E-08	1.778E-07	800
98.0	6.3	38	4.264E-08	1.236E-07	800
98.0	8.4	47	7.415E-08	2.150E-07	800
98.0	10.5	74	8.156E-08	2.365E-07	800
98.0	12.6	28	3.151E-08	9.139E-08	800
98.0	14.7	35	3.893E-08	1.129E-07	800
98.0	16.8	37	4.078E-08	1.183E-07	800
98.0	21.0	0	0.000E+00	0.000E+00	800
98.0	25.2	0	0.000E+00	0.000E+00	800
98.0	29.4	14	1.604E-08	4.653E-08	800
98.0	33.6	13	1.471E-08	4.265E-08	800
98.0	37.8	0	0.000E+00	0.000E+00	800
98.0	42.0	4	5.348E-09	1.551E-08	800

AZIMUTH DEGRFFS	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS	AZIMUTH DEGRFFS	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
106.0	0.3	4297	4.717E-06	1.368E-05	800	130.0	0.3	11030	1.211E-05	3.512E-05	800
106.0	0.5	4729	5.191E-06	1.505E-05	800	130.0	0.5	14403	1.142E-05	3.312E-05	800
106.0	1.0	3120	3.426E-06	9.934E-06	800	130.0	1.0	6211	6.818E-06	1.977E-05	800
106.0	2.1	3014	3.305E-06	9.596E-06	800	130.0	2.1	6871	7.543E-06	2.187E-05	800
106.0	4.2	3404	3.737E-06	1.084E-05	800	130.0	4.2	8023	8.807E-06	2.554E-05	800
106.0	6.3	3730	4.095E-06	1.187E-05	800	130.0	6.3	4844	5.318E-06	1.542E-05	800
106.0	8.4	4277	4.695E-06	1.362E-05	800	130.0	8.4	4650	7.300E-06	2.117E-05	800
106.0	10.5	3561	3.909E-06	1.134E-05	800	130.0	10.5	5175	5.682E-06	1.648E-05	800
106.0	12.6	3578	3.922E-06	1.139E-05	800	130.0	12.6	3458	3.796E-06	1.101E-05	800
106.0	14.7	2806	3.081E-06	8.939E-06	800	130.0	14.7	2761	3.031E-06	8.789E-06	800
106.0	16.8	3472	3.811E-06	1.105E-05	800	130.0	16.8	1982	2.174E-06	6.311E-06	800
106.0	21.0	2639	2.897E-06	8.402E-06	800	130.0	21.0	1058	1.162E-06	3.371E-06	800
106.0	25.2	1459	1.602E-06	4.645E-06	800	130.0	25.2	512	5.629E-07	1.632E-06	800
106.0	29.4	909	9.987E-07	2.896E-06	800	130.0	29.4	425	4.666E-07	1.353E-06	800
106.0	33.6	365	4.011E-07	1.163E-06	800	130.0	33.6	348	3.824E-07	1.109E-06	800
106.0	37.8	551	6.057E-07	1.756E-06	800	130.0	37.8	261	2.875E-07	8.336E-07	800
106.0	42.0	449	5.375E-07	1.559E-06	800	130.0	42.0	107	1.177E-07	3.412E-07	800

AZIMUTH DEGRFFS	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
114.0	0.3	13426	1.474E-05	4.274E-05	800
114.0	0.5	11400	1.251E-05	3.629E-05	800
114.0	1.0	8605	9.446E-06	2.739E-05	800
114.0	2.1	11022	1.210E-05	3.509E-05	800
114.0	4.2	12160	1.335E-05	3.871E-05	800
114.0	6.3	13570	1.490E-05	4.320E-05	800
114.0	8.4	9475	1.040E-05	3.016E-05	800
114.0	10.5	9558	1.049E-05	3.043E-05	800
114.0	12.6	11841	1.300E-05	3.769E-05	800
114.0	14.7	11351	1.246E-05	3.614E-05	800
114.0	16.8	9296	1.070E-05	2.959E-05	800
114.0	21.0	8835	9.699E-06	2.813E-05	800
114.0	25.2	5783	6.348E-06	1.841E-05	800
114.0	29.4	4602	5.053E-06	1.465E-05	800
114.0	33.6	4090	4.490E-06	1.302E-05	800
114.0	37.8	2577	2.829E-06	8.204E-06	800
114.0	42.0	2001	2.197E-06	6.370E-06	800

AZIMUTH DEGRFFS	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
122.0	0.3	24827	2.725E-05	7.903E-05	800
122.0	0.5	25150	2.761E-05	8.006E-05	800
122.0	1.0	14583	1.601E-05	4.642E-05	800
122.0	2.1	17745	1.948E-05	5.649E-05	800
122.0	4.2	19781	2.171E-05	6.297E-05	800
122.0	6.3	16562	1.818E-05	5.273E-05	800
122.0	8.4	19891	2.183E-05	6.332E-05	800
122.0	10.5	17282	1.897E-05	5.502E-05	800
122.0	12.6	17204	1.889E-05	5.477E-05	800
122.0	14.7	15806	1.735E-05	5.032E-05	800
122.0	16.8	14091	1.537E-05	4.457E-05	800
122.0	21.0	13361	1.467E-05	4.253E-05	800
122.0	25.2	7474	8.205E-06	2.380E-05	800
122.0	29.4	5735	6.296E-06	1.826E-05	800
122.0	33.6	4434	4.868E-06	1.412E-05	800
122.0	37.8	2970	3.261E-06	9.457E-06	800
122.0	42.0	2038	2.238E-06	6.491E-06	800

TEST 5170 AUGUST 1, 1962 2141 TO 2256 PST
ZINC SULFIDE RELEASE FROM ELFVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 2.9 M/SEC AT 2M

AZIMUTH DEGRFFS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
100.0	0	0.000E+00	0.000E+00	1600
101.0	7	8.388E-09	2.432E-08	1600
102.0	3	4.194E-09	1.216E-08	1600
103.0	21	2.307E-08	6.689E-08	1600
104.0	7	8.388E-09	2.432E-08	1600
105.0	30	3.365E-08	9.730E-08	1600
106.0	101	1.111E-07	3.223E-07	1600
107.0	250	2.747E-07	7.966E-07	1600
108.0	341	3.753E-07	1.089E-06	1600
109.0	1046	1.149E-06	3.332E-06	1600
110.0	1512	1.662E-06	4.877E-06	1600
111.0	2357	2.588E-06	7.504E-06	1600
112.0	2452	2.692E-06	7.808E-06	1600
113.0	1982	2.177E-06	6.312E-06	1600
114.0	2798	3.072E-06	8.909E-06	1600
115.0	3730	4.095E-06	1.188E-05	1600
116.0	6053	6.645E-06	1.927E-05	1600
117.0	5793	6.360E-06	1.844E-05	1600
118.0	7601	8.344E-06	2.420E-05	1600
119.0	8735	9.589E-06	2.781E-05	1600
120.0	10202	1.124E-05	3.261E-05	1600
121.0	8840	9.705E-06	2.814E-05	1600
122.0	8826	9.765E-06	2.832E-05	1600
123.0	8227	9.031E-06	2.619E-05	1600
124.0	6261	8.874E-06	1.993E-05	1600
125.0	6015	6.603E-06	1.915E-05	1600
126.0	3921	4.305E-06	1.248E-05	1600
127.0	3383	3.670E-06	1.064E-05	1600
128.0	168	1.845E-07	5.351E-07	1600
129.0	3104	3.407E-06	9.882E-06	1600
130.0	2607	2.862E-06	8.301E-06	1600
131.0	2177	2.390E-06	6.932E-06	1600
132.0	1990	2.185E-06	6.336E-06	1600
133.0	2001	2.198E-06	6.373E-06	1600
134.0	1969	2.162E-06	6.270E-06	1600
135.0	1280	1.384E-06	4.013E-06	1600
136.0	66	7.339E-08	2.128E-07	1600
138.0	83	8.920E-08	2.007E-07	1600
139.0	7	8.388E-09	2.432E-08	1600
140.0	0	0.000E+00	0.000E+00	1600
141.0	0	0.000E+00	0.000E+00	1600

CROSS-ROAD INTEGRATED= 3.558E-03 1.032E-02
SEC/SG.M 1/M

TEST F170 AUGUST 1, 1962 2141 TO 2256 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 2.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	EU/G 1/SG.M	DISTANCE METERS
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109.0	3	4.263E-09	1.236E-08	3200
110.0	11	1.279E-08	3.709E-08	3200
111.0	23	2.558E-08	7.417E-08	3200
112.0	71	7.886E-08	2.287E-07	3200
113.0	125	1.375E-07	3.877E-07	3200
114.0	185	2.036E-07	5.903E-07	3200
115.0	609	6.693E-07	1.941E-06	3200
116.0	109	1.204E-07	3.492E-07	3200
117.0	1551	1.703E-06	4.939E-06	3200
118.0	2067	2.270E-06	6.583E-06	3200
119.0	2586	2.839E-06	8.233E-06	3200
120.0	1719	1.887E-06	5.073E-06	3200
121.0	2973	3.264E-06	9.466E-06	3200
122.0	2929	3.215E-06	9.324E-06	3200
123.0	3426	3.761E-06	1.091E-05	3200
124.0	3517	3.841E-06	1.120E-05	3200
125.0	2966	3.257E-06	9.445E-06	3200
126.0	1907	2.094E-06	6.073E-06	3200
127.0	1214	1.333E-06	3.866E-06	3200
128.0	1172	1.287E-06	3.733E-06	3200
129.0	731	6.025E-07	2.327E-06	3200
130.0	1037	1.139E-06	3.304E-06	3200
131.0	652	7.162E-07	2.077E-06	3200
132.0	503	5.511E-07	1.604E-06	3200
133.0	176	1.900E-07	5.625E-07	3200
134.0	76	2.877E-08	8.345E-08	3200
135.0	10	1.177E-08	3.400E-08	3200
136.0	2	3.197E-09	9.272E-09	3200

CROSSWIND INTEGRATED= 1.981E-03 5.746E-03
SEC/SG.M 1/M

TEST F170 AUGUST 1, 1962 2141 TO 2256 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1200M ARC SAMPLER HT 1.5M U= 2.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	EU/G 1/SG.M	DISTANCE METERS
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4 97.0	3	3.608E-09	1.044E-08	12800
98.0	0	0.000E+00	0.000E+00	12800
5 99.0	0	6.561E-10	1.903E-09	12800
4 100.0	4	5.248E-09	1.522E-08	12800
4 101.0	11	1.247E-08	3.615E-08	12800
4 102.0	19	2.165E-08	6.278E-08	12800
4 103.0	19	2.165E-08	6.278E-08	12800
4 104.0	33	3.674E-08	1.065E-07	12800
5 105.0	17	4.068E-08	1.180E-07	12800
5 106.0	23	2.559E-08	7.420E-08	12800
4 107.0	28	3.116E-08	9.037E-08	12800
4 108.0	35	3.904E-08	1.132E-07	12800
4 109.0	39	4.297E-08	1.246E-07	12800
4 110.0	28	3.149E-08	9.132E-08	12800
4 111.0	34	3.772E-08	1.094E-07	12800
5 112.0	38	4.264E-08	1.237E-07	12800
5 113.0	35	3.904E-08	1.132E-07	12800
5 114.0	26	2.952E-08	8.562E-08	12800
5 115.0	46	5.117E-08	1.484E-07	12800
5 116.0	39	4.363E-08	1.265E-07	12800
5 117.0	51	5.675E-08	1.646E-07	12800
4 118.0	149	1.637E-07	4.747E-07	12800
4 119.0	199	2.191E-07	6.355E-07	12800
5 120.0	194	2.135E-07	6.193E-07	12800
4 121.0	177	1.908E-07	5.651E-07	12800
4 122.0	115	1.263E-07	3.662E-07	12800
4 123.0	34	3.838E-08	1.113E-07	12800
4 124.0	9	1.017E-08	2.949E-08	12800
4 125.0	15	1.673E-08	4.852E-08	12800
4 126.0	3	4.264E-09	1.237E-08	12800
4 127.0	6	7.545E-09	2.188E-08	12800
6 128.0	2	2.952E-09	8.562E-09	12800
4 129.0	0	3.280E-10	9.513E-10	12800

CROSSWIND INTEGRATED= 3.608E-04 1.044E-03
SEC/SG.M 1/M

30-SERIES EXPERIMENT: 71 (FT-71)
GROUND LEVEL AND TOWER SAMPLING 200 AND 800 M ARCS. GROUND LEVEL
SAMPLING ONLY 1600-3200 M ARCS.

TEST FT71 AUGUST 2, 1962 2130 TO 2221 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	FU/O 1/SQ.M	DISTANCE METERS
68.0	67	1.211E-07	2.302E-07	200
70.0	36	6.608E-08	1.255E-07	200
72.0	18	3.304E-08	6.277E-08	200
74.0	159	2.863E-07	5.480E-07	200
76.0	89	1.597E-07	3.034E-07	200
78.0	79	1.432E-07	2.720E-07	200
80.0	21	3.855E-08	7.324E-08	200
82.0	98	1.762E-07	3.388E-07	200
84.0	49	8.810E-08	1.670E-07	200
86.0	138	2.478E-07	4.708E-07	200
88.0	162	2.918E-07	5.585E-07	200
90.0	113	2.017E-07	3.871E-07	200
92.0	125	2.258E-07	4.290E-07	200
94.0	215	3.855E-07	7.324E-07	200
96.0	682	1.272E-06	2.323E-06	200
98.0	574	1.010E-06	1.956E-06	200
100.0	497	8.921E-07	1.695E-06	200
102.0	3825	6.856E-06	1.303E-05	200
104.0	12484	2.210E-05	4.237E-05	200
106.0	24221	4.341E-05	8.247E-05	200
108.0	60284	1.080E-04	2.053E-04	200
110.0	105670	1.894E-04	3.598E-04	200
112.0	136562	2.847E-04	4.650E-04	200
114.0	139614	2.502E-04	4.754E-04	200
116.0	160572	2.949E-04	5.604E-04	200
118.0	143983	2.580E-04	4.903E-04	200
120.0	126724	2.271E-04	4.315E-04	200
122.0	135896	2.435E-04	4.627E-04	200
124.0	193704	3.471E-04	6.596E-04	200
126.0	194767	3.490E-04	6.632E-04	200
128.0	177508	3.181E-04	6.044E-04	200
130.0	88258	1.582E-04	3.005E-04	200
132.0	55043	9.844E-05	1.874E-04	200
134.0	37400	6.783E-05	1.273E-04	200
136.0	36263	6.499E-05	1.235E-04	200
138.0	39391	7.059E-05	1.341E-04	200
140.0	47161	8.462E-05	1.606E-04	200
142.0	40632	7.282E-05	1.384E-04	200
144.0	42515	7.619E-05	1.448E-04	200
146.0	58296	1.045E-04	1.985E-04	200
148.0	60543	1.085E-04	2.062E-04	200
150.0	65950	1.182E-04	2.246E-04	200
152.0	45370	8.111E-05	1.545E-04	200
154.0	29199	5.233E-05	9.982E-05	200
156.0	26323	4.717E-05	8.963E-05	200
158.0	27721	5.326E-05	1.012E-04	200

CROSSWIND INTEGRATED= 2.909E-02 5.527E-02
SEC/90.M 1/M

TOWER DATA FOLLOWS....

TEST FT71 AUGUST 2, 1962 2130 TO 2221 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	FU/O 1/SQ.M	DISTANCE METERS
98.0	0.3	629	1.12PF-06	2.183E-06	200
98.0	0.7	424	7.599E-07	1.444E-06	200
98.0	1.4	211	4.151E-07	7.886E-07	200
98.0	2.7	202	5.265E-07	9.966E-07	200
98.0	4.1	114	2.053E-07	3.900E-07	200
98.0	5.4	127	2.281E-07	4.333E-07	200
98.0	6.8	25	4.561E-08	8.666E-08	200
98.0	8.1	104	1.870E-07	3.553E-07	200
98.0	9.4	68	1.232E-07	2.340E-07	200
98.0	10.8	17	3.193E-08	6.067E-08	200
98.0	13.5	45	8.210E-08	1.560E-07	200
98.0	16.2	30	5.474E-08	1.040E-07	200
98.0	18.9	17	3.193E-08	6.067E-08	200
98.0	21.6	38	6.842E-08	1.300E-07	200
98.0	24.3	3	6.747E-09	1.282E-08	200
98.0	27.0	0	0.000E+00	0.000E+00	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	FU/O 1/SQ.M	DISTANCE METERS
106.0	0.3	23913	4.286E-05	8.183E-05	200
106.0	0.7	28136	5.042E-05	9.581E-05	200
106.0	1.4	18676	3.347E-05	6.359E-05	200
106.0	2.7	20598	3.691E-05	7.014E-05	200
106.0	4.1	21224	3.804E-05	7.227E-05	200
106.0	5.4	19744	3.542E-05	6.730E-05	200
106.0	6.8	21504	3.850E-05	7.322E-05	200
106.0	8.1	18447	3.308E-05	6.281E-05	200
106.0	9.4	14367	2.575E-05	4.892E-05	200
106.0	10.8	12868	2.306E-05	4.382E-05	200
106.0	13.5	7083	1.265E-05	2.412E-05	200
106.0	16.2	4217	7.595E-06	1.443E-05	200
106.0	18.9	3642	6.527E-06	1.240E-05	200
106.0	21.6	2249	4.032E-06	7.661E-06	200
106.0	24.3	1153	2.068E-06	3.929E-06	200
106.0	27.0	910	1.646E-06	3.115E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	FL/D 1/SG ²	DISTANCE METERS
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114.0	0.3	111719	2.002E-04	3.804E-04	200
114.0	0.7	115746	2.436E-04	4.629E-04	200
114.0	1.4	112128	2.009E-04	3.818E-04	200
114.0	2.7	106676	1.912E-04	3.632E-04	200
114.0	4.1	98137	1.756E-04	3.342E-04	200
114.0	5.4	105213	1.884E-04	3.583E-04	200
114.0	6.8	81728	1.466E-04	2.783E-04	200
114.0	8.1	79169	1.418E-04	2.694E-04	200
114.0	9.4	55622	9.968E-05	1.894E-04	200
114.0	10.8	54487	9.766E-05	1.855E-04	200
114.0	13.5	0	0.000E+00	0.000E+00	200
114.0	16.2	28618	5.126E-05	9.745E-05	200
114.0	18.9	17447	3.127E-05	5.941E-05	200
114.0	21.6	8106	1.453E-05	2.760E-05	200
114.0	24.3	327	5.749E-06	1.092E-05	200
114.0	27.0	1475	2.645E-06	5.025E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	FL/D 1/SG ²	DISTANCE METERS
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122.0	0.3	122367	2.193E-04	4.167E-04	200
122.0	0.7	143380	2.576E-04	4.882E-04	200
122.0	1.4	112309	2.013E-04	3.820E-04	200
122.0	2.7	89359	1.601E-04	3.043E-04	200
122.0	4.1	106659	1.911E-04	3.632E-04	200
122.0	5.4	103601	1.858E-04	3.531E-04	200
122.0	6.8	89435	1.603E-04	3.045E-04	200
122.0	8.1	83787	1.502E-04	2.853E-04	200
122.0	9.4	71283	1.277E-04	2.427E-04	200
122.0	10.8	57127	1.024E-04	1.945E-04	200
122.0	13.5	39369	7.056E-05	1.341E-04	200
122.0	16.2	25057	4.491E-05	8.532E-05	200
122.0	18.9	20297	3.638E-05	6.911E-05	200
122.0	21.6	10951	1.963E-05	3.729E-05	200
122.0	24.3	3027	5.425E-06	1.031E-05	200
122.0	27.0	1551	2.780E-06	5.282E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	FL/D 1/SG ²	DISTANCE METERS
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130.0	0.3	75765	1.358E-04	2.580E-04	200
130.0	0.7	89145	1.598E-04	3.035E-04	200
130.0	1.4	67012	1.201E-04	2.282E-04	200
130.0	2.7	54261	1.008E-04	1.916E-04	200
130.0	4.1	57261	1.028E-04	1.950E-04	200
130.0	5.4	63370	1.136E-04	2.158E-04	200
130.0	6.8	98798	1.050E-04	2.002E-04	200
130.0	8.1	52517	9.412E-05	1.788E-04	200
130.0	9.4	32906	5.897E-05	1.120E-04	200
130.0	10.8	35586	6.378E-05	1.212E-04	200
130.0	13.5	22326	4.001E-05	7.602E-05	200
130.0	16.2	13481	2.416E-05	4.591E-05	200
130.0	18.9	8789	1.486E-05	2.823E-05	200
130.0	21.6	4492	8.051E-06	1.530E-05	200
130.0	24.3	1317	2.362E-06	4.467E-06	200
130.0	27.0	1157	2.075E-06	3.942E-06	200

TEST FT71 AUGUST 2, 1962 2130 TO 2221 PST
71NC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM APC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	FL/D 1/SG ²	DISTANCE METERS
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78.0	11	2.131E-08	4.088E-08	800
80.0	26	8.794E-08	9.108E-08	800
82.0	108	2.663E-07	5.060E-07	800
84.0	1282	2.226E-06	4.230E-06	800
86.0	32	5.859E-08	1.113E-07	800
88.0	41	7.457E-08	1.417E-07	800
90.0	87	8.522E-08	1.619E-07	800
92.0	0	0.000E+00	0.000E+00	800
94.0	118	2.131E-07	4.088E-07	800
96.0	14	2.643E-08	5.060E-08	800
98.0	104	1.864E-07	3.542E-07	800
100.0	11	2.131E-08	4.088E-08	800
102.0	0	0.000E+00	0.000E+00	800
104.0	106	1.918E-07	3.643E-07	800
106.0	98	1.758E-07	3.340E-07	800
108.0	228	4.101E-07	7.793E-07	800
110.0	5367	9.670E-06	1.828E-05	800
112.0	11764	2.108E-05	4.006E-05	800
114.0	12031	2.156E-05	4.097E-05	800
116.0	14932	2.676E-05	5.085E-05	800
118.0	14030	2.515E-05	4.779E-05	800
120.0	15422	2.760E-05	5.251E-05	800
122.0	15455	2.770E-05	5.263E-05	800
124.0	17232	3.028E-05	5.868E-05	800
126.0	8985	1.610E-05	3.059E-05	800
128.0	8291	7.692E-06	1.461E-05	800
130.0	1930	3.468E-06	6.588E-06	800
132.0	2315	4.189E-06	7.884E-06	800
134.0	2897	5.193E-06	9.887E-06	800
136.0	2241	4.016E-06	7.631E-06	800
138.0	3224	5.779E-06	1.098E-05	800
140.0	3676	6.589E-06	1.252E-05	800
142.0	3973	7.122E-06	1.353E-05	800
144.0	4181	7.490E-06	1.424E-05	800
146.0	3195	5.726E-06	1.088E-05	800
148.0	2998	5.374E-06	1.021E-05	800
150.0	3064	5.492E-06	1.043E-05	800
152.0	3599	6.450E-06	1.226E-05	800
154.0	4580	8.208E-06	1.560E-05	800
156.0	8086	7.180E-06	1.364E-05	800
158.0	3364	4.010E-06	1.146E-05	800
160.0	3883	6.283E-06	1.186E-05	800

CROSSWIND INTEGRATED= 8.733E-03 1.659E-02
SEC/SG² 1/M

TOWER DATA FOLLOW....

TEST FY71 AUGUST 2, 1962 2130 TO 2221 PST
 ZINC SULFIDE RELEASE FROM FLEWATION OF 2M
 400M ARC OR 1.9 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SEC ²	DISTANCE METERS
98.0	0.3	68	1.225E-07	2.328E-07	800
98.0	0.5	0	0.000E+00	0.000E+00	800
98.0	1.0	0	0.000E+00	0.000E+00	800
98.0	2.1	14	2.647E-08	5.030E-08	800
98.0	4.2	46	8.383E-08	1.593E-07	800
98.0	6.3	71	1.280E-07	2.431E-07	800
98.0	8.4	2	4.412E-09	8.383E-09	800
98.0	10.5	0	0.000E+00	0.000E+00	800
98.0	12.6	14	2.647E-08	5.030E-08	800
98.0	14.7	0	0.000E+00	0.000E+00	800
98.0	16.8	0	0.000E+00	0.000E+00	800
98.0	21.0	4	8.824E-09	1.677E-08	800
98.0	25.2	36	6.527E-08	1.240E-07	800
98.0	29.4	14	2.611E-08	4.960E-08	800
98.0	33.6	7	1.305E-08	2.480E-08	800
98.0	37.8	0	0.000E+00	0.000E+00	800
98.0	42.0	3	6.527E-09	1.240E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SEC ²	DISTANCE METERS
122.0	0.3	9007	1.614E-05	3.067E-05	800
122.0	0.5	15174	2.720E-05	5.167E-05	800
122.0	1.0	13356	2.394E-05	4.548E-05	800
122.0	2.1	13981	2.506E-05	4.761E-05	800
122.0	4.2	14395	2.580E-05	4.902E-05	800
122.0	6.3	15180	2.721E-05	5.169E-05	800
122.0	8.4	13674	2.451E-05	4.656E-05	800
122.0	10.5	13461	2.448E-05	4.652E-05	800
122.0	12.6	11857	2.125E-05	4.137E-05	800
122.0	14.7	11096	1.949E-05	3.778E-05	800
122.0	16.8	9193	1.648E-05	3.130E-05	800
122.0	21.0	7314	1.311E-05	2.491E-05	800
122.0	25.2	4517	8.096E-06	1.538E-05	800
122.0	29.4	2944	5.277E-06	1.003E-05	800
122.0	33.6	2283	4.092E-06	7.775E-06	800
122.0	37.8	1467	2.630E-06	4.998E-06	800
122.0	42.0	697	1.250E-06	2.375E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SEC ²	DISTANCE METERS
106.0	0.3	192	3.442E-07	6.540E-07	800
106.0	0.5	139	2.505E-07	4.766E-07	800
106.0	1.0	125	2.250E-07	4.275E-07	800
106.0	2.1	145	2.603E-07	4.946E-07	800
106.0	4.2	221	3.971E-07	7.545E-07	800
106.0	6.3	162	2.912E-07	5.533E-07	800
106.0	8.4	332	5.957E-07	1.132E-06	800
106.0	10.5	169	3.044E-07	5.784E-07	800
106.0	12.6	140	2.515E-07	4.778E-07	800
106.0	14.7	233	4.192E-07	7.964E-07	800
106.0	16.8	233	4.192E-07	7.964E-07	800
106.0	21.0	152	2.736E-07	5.198E-07	800
106.0	25.2	111	1.991E-07	3.782E-07	800
106.0	29.4	118	2.121E-07	4.030E-07	800
106.0	33.6	71	1.273E-07	2.418E-07	800
106.0	37.8	16	2.937E-08	5.580E-08	800
106.0	42.0	0	0.000E+00	0.000E+00	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SEC ²	DISTANCE METERS
130.0	0.3	2151	3.856E-06	7.327E-06	800
130.0	0.5	1933	3.465E-06	6.584E-06	800
130.0	1.0	2084	3.592E-06	6.824E-06	800
130.0	2.1	1888	3.384E-06	6.430E-06	800
130.0	4.2	1991	3.569E-06	6.782E-06	800
130.0	6.3	2092	3.750E-06	7.126E-06	800
130.0	8.4	1699	3.044E-06	5.784E-06	800
130.0	10.5	1989	3.549E-06	6.778E-06	800
130.0	12.6	1617	2.895E-06	5.508E-06	800
130.0	14.7	1312	2.352E-06	4.468E-06	800
130.0	16.8	1423	2.550E-06	4.848E-06	800
130.0	21.0	608	1.090E-06	2.071E-06	800
130.0	25.2	307	5.515E-07	1.048E-06	800
130.0	29.4	105	1.891E-07	3.596E-07	800
130.0	33.6	100	1.795E-07	3.410E-07	800
130.0	37.8	67	1.207E-07	2.294E-07	800
130.0	42.0	7	1.305E-08	2.480E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SEC ²	DISTANCE METERS
114.0	0.3	11448	2.055E-05	3.905E-05	800
114.0	0.5	11442	2.051E-05	3.896E-05	800
114.0	1.0	11719	2.100E-05	3.990E-05	800
114.0	2.1	6054	1.085E-05	2.061E-05	800
114.0	4.2	12548	2.249E-05	4.273E-05	800
114.0	6.3	11994	2.150E-05	4.084E-05	800
114.0	8.4	10680	1.914E-05	3.637E-05	800
114.0	10.5	14097	2.526E-05	4.800E-05	800
114.0	12.6	11849	2.124E-05	4.035E-05	800
114.0	14.7	11884	2.130E-05	4.047E-05	800
114.0	16.8	10963	1.965E-05	3.733E-05	800
114.0	21.0	8942	1.603E-05	3.045E-05	800
114.0	25.2	5572	9.986E-06	1.897E-05	800
114.0	29.4	4046	7.969E-06	1.514E-05	800
114.0	33.6	3328	5.965E-06	1.133E-05	800
114.0	37.8	2010	3.603E-06	6.845E-06	800
114.0	42.0	1251	2.242E-06	4.260E-06	800

TEST F171 AUGUST 2, 1962 2130 TO 2221 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1400M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10F+6	F/R SEC/CM	EU/R 1/100M	DISTANCE METERS
7 84.0	0	0.000E+00	0.000E+00	1600
89.0	14	2.571E-08	4.884E-08	1600
90.0	4	7.345E-09	1.396E-08	1600
91.0	20	3.672E-08	6.978E-08	1600
92.0	4	7.345E-09	1.396E-08	1600
93.0	6	1.102E-08	2.093E-08	1600
94.0	28	5.141E-08	9.749E-08	1600
95.0	0	0.000E+00	0.000E+00	1600
96.0	8	1.469E-08	2.791E-08	1600
97.0	0	0.000E+00	0.000E+00	1600
98.0	6	1.102E-08	2.093E-08	1600
99.0	0	0.000E+00	0.000E+00	1600
100.0	0	0.000E+00	0.000E+00	1600
101.0	2	3.672E-09	6.978E-09	1600
102.0	0	0.000E+00	0.000E+00	1600
103.0	0	0.000E+00	0.000E+00	1600
104.0	16	2.938E-08	5.522E-08	1600
105.0	34	4.243E-08	1.186E-07	1600
106.0	20	3.672E-08	6.978E-08	1600
107.0	47	8.047E-08	1.605E-07	1600
108.0	147	2.644E-07	5.024E-07	1600
109.0	404	7.969E-07	1.514E-06	1600
110.0	825	1.400E-06	2.812E-06	1600
111.0	1651	2.960E-06	5.624E-06	1600
112.0	2344	4.201E-06	7.982E-06	1600
113.0	2899	5.196E-06	9.873E-06	1600
114.0	2897	5.193E-06	9.866E-06	1600
115.0	3225	5.780E-06	1.098E-05	1600
116.0	4026	7.216E-06	1.371E-05	1600
117.0	4625	8.289E-06	1.575E-05	1600
118.0	5184	9.291E-06	1.765E-05	1600
119.0	5110	9.159E-06	1.700E-05	1600
120.0	5830	1.045E-05	1.985E-05	1600
121.0	6385	1.144E-05	2.174E-05	1600
122.0	5655	1.014E-05	1.926E-05	1600
123.0	4784	8.575E-06	1.629E-05	1600
124.0	3106	5.567E-06	1.058E-05	1600
125.0	1788	3.206E-06	6.091E-06	1600
126.0	1094	1.961E-06	3.726E-06	1600
127.0	922	1.689E-06	3.210E-06	1600
128.0	57	1.028E-07	1.954E-07	1600
129.0	782	1.403E-06	2.655E-06	1600
130.0	788	1.418E-06	2.686E-06	1600
131.0	571	1.025E-06	1.947E-06	1600
132.0	768	1.377E-06	2.617E-06	1600
133.0	1002	1.704E-06	3.412E-06	1600
134.0	688	1.234E-06	2.380E-06	1600
135.0	1079	1.935E-06	3.677E-06	1600
7 136.0	36	6.610E-08	1.256E-07	1600
137.0	981	1.759E-06	3.302E-06	1600
138.0	938	1.682E-06	3.196E-06	1600
139.0	803	1.400E-06	2.735E-06	1600
140.0	706	1.267E-06	2.407E-06	1600
141.0	983	1.763E-06	3.309E-06	1600
142.0	1024	1.816E-06	3.489E-06	1600
143.0	809	1.451E-06	2.756E-06	1600
144.0	721	1.293E-06	2.456E-06	1600
145.0	682	1.223E-06	2.324E-06	1600
146.0	717	1.285E-06	2.442E-06	1600
147.0	645	1.157E-06	2.198E-06	1600
148.0	938	1.682E-06	3.196E-06	1600
149.0	553	9.916E-07	1.894E-06	1600
150.0	813	1.458E-06	2.770E-06	1600
151.0	801	1.416E-06	2.720E-06	1600
152.0	1034	1.855E-06	3.524E-06	1600
153.0	1053	1.888E-06	3.587E-06	1600
154.0	1168	2.093E-06	3.977E-06	1600

CROSSWIND INTEGRATED= 4.271E-03 SEC/SEC
0.020E-03 1/M

TEST F171 AUGUST 2, 1962 2130 TO 2221 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1200M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	F/R SEC/CM	EU/R 1/100M	DISTANCE METERS
85.0	12	2.262E-08	4.298E-08	3200
98.0	0	0.000E+00	0.000E+00	3200
99.0	0	0.000E+00	0.000E+00	3200
100.0	11	2.088E-08	3.967E-08	3200
101.0	0	0.000E+00	0.000E+00	3200
102.0	12	2.262E-08	4.298E-08	3200
103.0	6	1.218E-08	2.314E-08	3200
104.0	4	8.700E-09	1.653E-08	3200
105.0	4	8.700E-09	1.653E-08	3200
106.0	1	3.440E-09	6.612E-09	3200
107.0	3	6.960E-09	1.322E-08	3200
108.0	15	2.784E-08	5.279E-08	3200
109.0	53	9.570E-08	1.811E-07	3200
110.0	167	3.010E-07	5.719E-07	3200
111.0	477	8.560E-07	1.626E-06	3200
112.0	787	1.411E-06	2.681E-06	3200
113.0	860	1.542E-06	2.929E-06	3200
114.0	745	1.336E-06	2.539E-06	3200
115.0	992	1.778E-06	3.379E-06	3200
116.0	71	1.288E-07	2.446E-07	3200
117.0	966	1.731E-06	3.289E-06	3200
118.0	1643	2.986E-06	5.597E-06	3200
119.0	2933	5.256E-06	9.987E-06	3200
120.0	2499	4.479E-06	8.509E-06	3200
121.0	1541	2.763E-06	5.250E-06	3200
122.0	972	1.743E-06	3.312E-06	3200
123.0	407	7.308E-07	1.388E-06	3200
124.0	350	6.281E-07	1.193E-06	3200
125.0	339	6.090E-07	1.157E-06	3200
126.0	332	5.951E-07	1.131E-06	3200
127.0	421	7.551E-07	1.435E-06	3200
128.0	300	5.394E-07	1.025E-06	3200
129.0	211	3.793E-07	7.207E-07	3200
130.0	278	4.944E-07	9.488E-07	3200
131.0	252	4.524E-07	8.595E-07	3200
132.0	225	4.037E-07	7.670E-07	3200
133.0	208	4.454E-07	8.463E-07	3200
134.0	195	3.497E-07	6.605E-07	3200
135.0	204	3.671E-07	6.975E-07	3200
136.0	214	3.845E-07	7.306E-07	3200
137.0	198	3.589E-07	6.784E-07	3200
138.0	139	2.505E-07	4.760E-07	3200
139.0	109	1.966E-07	3.736E-07	3200
140.0	162	2.906E-07	5.521E-07	3200
141.0	39	7.134E-08	1.355E-07	3200
142.0	241	4.332E-07	8.232E-07	3200
143.0	211	3.793E-07	7.207E-07	3200
144.0	203	3.650E-07	6.942E-07	3200
145.0	180	3.236E-07	6.149E-07	3200
146.0	165	2.980E-07	5.620E-07	3200
147.0	129	2.310E-07	4.397E-07	3200
148.0	218	3.915E-07	7.438E-07	3200
149.0	251	4.506E-07	8.562E-07	3200
150.0	9	1.740E-08	3.306E-08	3200
151.0	317	5.690E-07	1.081E-06	3200
152.0	233	4.193E-07	7.967E-07	3200
153.0	313	5.620E-07	1.068E-06	3200
154.0	397	7.116E-07	1.352E-06	3200
155.0	388	6.960E-07	1.322E-06	3200
156.0	446	8.044E-07	1.521E-06	3200
157.0	497	8.908E-07	1.693E-06	3200
158.0	362	6.400E-07	1.233E-06	3200
159.0	587	1.083E-06	2.000E-06	3200
160.0	138	2.888E-07	4.727E-07	3200
161.0	699	1.253E-06	2.380E-06	3200

CROSSWIND INTEGRATED= 2.559E-03 SEC/SEC
4.862E-03 1/M

UNSTABLE SERIES EXPERIMENT: 2 (U-2)

DATA FROM EXPERIMENT U-1 IS NOT AVAILABLE. GROUND LEVEL SAMPLING
100-1600 M ARCS. TRACER DISPERSAL DIFFICULTIES MAY HAVE RESULTED
IN A VARIABLE RELEASE RATE DURING EXPERIMENTS U-1 THROUGH U-10.

TEST U-2 FEBRUARY 15, 1961 1438 TO 1508 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
100M ARC SAMPLER HT 1.5M U=12.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Z SEC/CU.M	EU/Z 1/SEC.M	DISTANCE METERS
4.0	1	1.349E-09	1.673E-08	100
8.0	0	0.000E+00	0.000E+00	100
12.0	0	0.000E+00	0.000E+00	100
16.0	0	0.000E+00	0.000E+00	100
20.0	0	0.000E+00	0.000E+00	100
24.0	0	6.746E-10	8.365E-09	100
28.0	1	1.349E-09	1.673E-08	100
32.0	0	6.746E-10	8.365E-09	100
36.0	0	0.000E+00	0.000E+00	100
40.0	18	1.619E-08	2.008E-07	100
Z 44.0	256	2.240E-07	2.777E-06	100
Z 48.0	214	2.051E-07	2.543E-06	100
Z 52.0	501	4.736E-07	5.872E-06	100
Z 56.0	41	3.643E-08	4.517E-07	100
60.0	53	4.722E-08	5.856E-07	100
64.0	1745	1.545E-06	1.916E-05	100
68.0	20	2.159E-08	2.677E-07	100
S 72.0	21	1.889E-08	2.302E-07	100
76.0	19	1.687E-08	2.091E-07	100
80.0	31	2.766E-08	3.430E-07	100
84.0	10	9.445E-09	1.171E-07	100
88.0	5	4.722E-09	5.856E-08	100
92.0	9	8.095E-09	1.004E-07	100
96.0	6	6.072E-09	7.529E-08	100
100.0	11	1.012E-08	1.255E-07	100
104.0	13	1.214E-08	1.506E-07	100

CROSSWIND INTEGRATED= 1.630E-05 2.021E-04
SEC/90.M 1/M

TEST U-2 FEBRUARY 15, 1961 1438 TO 1508 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC SAMPLER HT 1.5M U=12.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Z SEC/CU.M	EU/Z 1/SEC.M	DISTANCE METERS
42.0	0	6.746E-10	8.365E-09	200
46.0	143	1.606E-07	1.991E-06	200
50.0	744	4.517E-07	5.681E-06	200
54.0	61	5.397E-08	6.692E-07	200
58.0	5	4.722E-09	5.856E-08	200
62.0	0	4.048E-09	5.019E-08	200
66.0	43	3.778E-08	4.685E-07	200
70.0	116	1.014E-07	1.263E-06	200
74.0	247	2.166E-07	2.685E-06	200
78.0	46	5.882E-08	7.194E-07	200
82.0	7	6.746E-09	8.365E-08	200

CROSSWIND INTEGRATED= 1.810E-05 2.245E-04
SEC/90.M 1/M

TEST U-2 FEBRUARY 15, 1961 1438 TO 1508 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M U=12.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Z SEC/CU.M	EU/Z 1/SEC.M	DISTANCE METERS
36.0	0	0.000E+00	0.000E+00	300
40.0	69	6.072E-08	7.529E-07	300
44.0	488	4.270E-07	5.295E-06	300
48.0	406	3.555E-07	4.409E-06	300
52.0	1792	1.564E-06	1.945E-05	300
F 56.0	727	6.368E-07	7.897E-06	300
60.0	140	1.228E-07	1.522E-06	300
64.0	23	2.024E-08	2.510E-07	300
68.0	196	1.720E-07	2.133E-06	300
72.0	270	2.368E-07	2.936E-06	300
76.0	23	2.024E-08	2.510E-07	300
80.0	2	2.024E-09	2.510E-08	300
84.0	3	2.692E-09	3.346E-08	300

CROSSWIND INTEGRATED= 7.593E-05 9.415E-04
SEC/90.M 1/M

TEST U-2 FEBRUARY 15, 1961 1438 TO 1508 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U=12.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Z SEC/CU.M	EU/Z 1/SEC.M	DISTANCE METERS
34.0	0	6.746E-10	8.365E-09	400
38.0	19	1.687E-08	2.091E-07	400
42.0	555	4.957E-07	6.023E-06	400
46.0	677	5.930E-07	7.353E-06	400
50.0	1363	1.103E-06	1.479E-05	400
54.0	2761	2.416E-06	2.996E-05	400
58.0	1894	1.658E-06	2.055E-05	400
62.0	2012	1.741E-06	2.183E-05	400
66.0	437	3.825E-07	4.743E-06	400
70.0	78	6.881E-08	8.533E-07	400
74.0	10	8.770E-09	1.087E-07	400
78.0	16	1.484E-08	1.840E-07	400
82.0	6	6.072E-09	7.529E-08	400
86.0	0	6.746E-10	8.365E-09	400

CROSSWIND INTEGRATED= 2.403E-04 2.946E-03
SEC/90.M 1/M

TEST U-2 FEBRUARY 15, 1961 1438 TO 1508 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
500M ARC SAMPLER HT 1.5M U=12.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
28.0	0	0.000E+00	0.000E+00	500
32.0	21	1.889E-08	2.342E-07	500
36.0	0	6.746E-10	8.365E-09	500
40.0	87	7.623E-08	9.453E-07	500
44.0	254	2.226E-07	2.761E-06	500
48.0	1449	1.248E-06	1.573E-05	500
52.0	1251	1.095E-06	1.358E-05	500
56.0	2233	1.954E-06	2.423E-05	500
60.0	1766	1.546E-06	1.916E-05	500
64.0	953	8.345E-07	1.035E-05	500
68.0	443	3.879E-07	4.810E-06	500
72.0	25	2.226E-08	2.761E-07	500
76.0	6	5.397E-09	6.692E-08	500
80.0	12	1.079E-08	1.338E-07	500
84.0	0	0.000E+00	0.000E+00	500

CROSSWIND INTEGRATED= 2.598E-04 SEC/SQ.M
3.223E-03 1/M

TEST U-2 FEBRUARY 15, 1961 1438 TO 1508 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLER HT 1.5M U=12.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
30.0	0	0.000E+00	0.000E+00	600
34.0	7	8.706E-09	8.365E-08	600
38.0	15	1.399E-08	1.673E-07	600
42.0	123	1.079E-07	1.338E-06	600
46.0	348	3.049E-07	3.781E-06	600
50.0	1793	1.560E-06	1.935E-05	600
54.0	1852	1.620E-06	2.099E-05	600
58.0	2099	1.837E-06	2.276E-05	600
62.0	800	7.036E-07	8.725E-06	600
66.0	606	5.303E-07	6.575E-06	600
70.0	130	1.228E-07	1.522E-06	600
74.0	21	1.889E-08	2.342E-07	600
78.0	33	2.968E-08	3.681E-07	600
82.0	11	1.012E-08	1.255E-07	600
86.0	1	1.349E-09	1.673E-08	600

CROSSWIND INTEGRATED= 2.877E-04 SEC/SQ.M
3.567E-03 1/M

TEST U-2 FEBRUARY 15, 1961 1438 TO 1508 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U=12.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
34.0	0	0.000E+00	0.000E+00	800
37.0	1	1.349E-09	1.673E-08	800
40.0	45	3.980E-08	4.936E-07	800
43.0	135	1.147E-07	1.472E-06	800
46.0	537	4.792E-07	5.831E-06	800
49.0	1998	1.749E-06	2.168E-05	800
52.0	1605	1.615E-06	2.003E-05	800
55.0	2479	2.167E-06	2.689E-05	800
58.0	1979	1.732E-06	2.147E-05	800
61.0	1559	1.349E-06	1.691E-05	800
64.0	802	7.023E-07	8.708E-06	800
67.0	677	5.923E-07	7.345E-06	800
70.0	186	1.633E-07	2.024E-06	800
73.0	23	2.024E-08	2.518E-07	800
76.0	0	6.746E-10	8.365E-09	800

CROSSWIND INTEGRATED= 4.498E-04 SEC/SQ.M
5.577E-03 1/M

TEST U-2 FEBRUARY 15, 1961 1438 TO 1508 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U=12.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
38.0	0	0.000E+00	0.000E+00	1200
40.0	13	1.147E-08	1.443E-07	1200
42.0	56	4.980E-08	6.081E-07	1200
46.0	226	1.982E-07	2.458E-06	1200
48.0	417	3.653E-07	4.530E-06	1200
50.0	734	6.425E-07	7.967E-06	1200
52.0	930	8.216E-07	1.019E-05	1200
54.0	1759	1.539E-06	1.904E-05	1200
56.0	709	6.245E-07	7.694E-06	1200
58.0	2170	1.499E-06	2.355E-05	1200
60.0	624	5.465E-07	6.777E-06	1200
62.0	944	8.304E-07	1.030E-05	1200
64.0	483	9.226E-07	5.241E-06	1200
66.0	310	2.710E-07	3.365E-06	1200
T 68.0	142	1.251E-07	1.551E-06	1200
70.0	92	8.104E-08	1.005E-06	1200
72.0	72	6.358E-08	7.884E-07	1200
74.0	7	6.689E-09	8.245E-08	1200
C 76.0	0	7.065E-09	8.761E-08	1200
C 78.0	0	0.000E+00	0.000E+00	1200

CROSSWIND INTEGRATED= 3.613E-04 SEC/SQ.M
4.480E-03 1/M

TEST U-2 FEBRUARY 15, 1961 1438 TO 1508 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U=12.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
38.0	0	0.000E+00	0.000E+00	1600
40.0	1	1.247E-09	1.546E-08	1600
42.0	16	1.413E-08	1.752E-07	1600
44.0	40	3.532E-08	4.380E-07	1600
46.0	119	1.043E-07	1.293E-06	1600
48.0	277	2.431E-07	3.015E-06	1600
T 50.0	35	3.117E-08	3.865E-07	1600
52.0	273	2.390E-07	2.963E-06	1600
54.0	317	2.780E-07	3.449E-06	1600
56.0	754	6.604E-07	8.189E-06	1600
58.0	648	5.677E-07	7.039E-06	1600
60.0	394	3.449E-07	4.277E-06	1600
62.0	131	1.151E-07	1.427E-06	1600
64.0	370	3.246E-07	4.025E-06	1600
66.0	456	3.999E-07	4.947E-06	1600
68.0	149	1.309E-07	1.623E-06	1600
70.0	66	5.777E-08	7.163E-07	1600
72.0	9	8.727E-09	1.082E-07	1600
74.0	4	3.740E-09	4.638E-08	1600
76.0	5	4.571E-09	5.669E-08	1600
78.0	3	2.909E-09	3.607E-08	1600

CROSSWIND INTEGRATED= 1.992E-04 SEC/SQ.M
2.470E-03 1/M

UNSTABLE SERIES EXPERIMENT: 5 (U-5)
GROUND LEVEL SAMPLING 100-1600 M ARCS. THE TRACER WAS NOT
DETECTED ON THE 100 M ARC. TRACER DISPERSAL DIFFICULTIES MAY
HAVE RESULTED IN A VARIABLE RELEASE RATE DURING EXPERIMENTS U-1
THROUGH U-10.

TEST U-5 A/C: 4, 1961 1135 TO 1235 PST
71°N SURFICE RELEASE FROM ELEVATION OF 56M
200M ARC SURFICE RELEASE RATE 7.0 M/SEC AT 56M

AZIMUTH	EXPLOSIVE	FZ	FZC	DISTANCE
DEGREES	GT-500000	SEC/SEC	1/SEC	FEET
30.0	260	2.200E-07	1.020E-06	200
62.0	622	5.917E-07	1.300E-06	200
48.0	532	9.185E-07	1.280E-06	200
54.0	740	6.373E-07	6.710E-06	200
54.0	25	2.260E-07	1.470E-07	200
70.0	562	9.975E-07	1.480E-06	200
84.0	26	2.063E-06	1.424E-07	200
90.0	70	5.800E-06	8.324E-07	200
90.0	137	1.110E-07	5.202E-07	200
90.0	00	1.713E-06	2.747E-07	200

CROSS-ING INTER-AIR = 5.800E-05
SEC/SEC 1/2

TEST U-5 A/C: 4, 1961 1135 TO 1235 PST
71°N SURFICE RELEASE FROM ELEVATION OF 56M
300M ARC SURFICE RELEASE RATE 7.0 M/SEC AT 56M

AZIMUTH	EXPLOSIVE	FZ	FZC	DISTANCE
DEGREES	GT-500000	SEC/SEC	1/SEC	FEET
20.0	52	9.400E-06	1.250E-07	300
20.0	155	1.233E-07	5.565E-07	300
20.0	302	1.160E-07	2.161E-06	300
32.0	071	1.920E-07	2.000E-06	300
36.0	702	5.960E-07	1.335E-06	300
60.0	1310	1.000E-06	4.000E-06	300
60.0	1100	9.200E-07	6.035E-06	300
60.0	1100	9.536E-07	1.057E-06	300
52.0	667	5.560E-07	4.110E-06	300
54.0	126	1.062E-07	7.700E-07	300
60.0	256	1.710E-07	1.272E-06	300
60.0	04	4.102E-06	2.050E-07	300
60.0	33	2.760E-06	2.036E-07	300
72.0	34	2.760E-06	2.036E-07	300
76.0	0	0.000E+00	0.000E+00	300
80.0	0	4.975E-06	5.000E-08	300
80.0	220	1.070E-07	1.300E-06	300
80.0	103	5.643E-05	5.411E-07	300
92.0	201	1.670E-07	1.201E-06	300
96.0	002	4.107E-07	1.050E-06	300
100.0	100	1.650E-07	1.221E-06	300
100.0	0	8.250E-05	6.105E-08	300

CROSS-ING INTER-AIR = 1.351E-10
SEC/SEC 1/2

TEST U-5 A/C: 4, 1961 1135 TO 1235 PST
71°N SURFICE RELEASE FROM ELEVATION OF 56M
400M ARC SURFICE RELEASE RATE 7.0 M/SEC AT 56M

AZIMUTH	EXPLOSIVE	FZ	FZC	DISTANCE
DEGREES	GT-500000	SEC/SEC	1/SEC	FEET
18.0	31	2.613E-06	1.973E-07	400
22.0	233	1.025E-07	1.025E-06	400
26.0	1154	5.619E-07	1.110E-06	400
30.0	1274	1.000E-06	1.000E-05	400
30.0	1506	1.660E-06	1.233E-05	400
30.0	1303	2.707E-06	2.062E-05	400
32.0	2150	1.209E-06	1.331E-05	400
40.0	1506	1.330E-06	5.768E-06	400
50.0	1506	1.210E-06	0.205E-06	400
50.0	320	2.702E-07	1.059E-06	400
50.0	27	2.260E-06	1.675E-07	400
62.0	763	6.367E-07	4.711E-06	400
64.0	331	2.760E-07	2.045E-06	400
70.0	170	1.402E-07	1.100E-06	400
70.0	311	2.560E-07	1.923E-06	400
70.0	180	1.500E-07	1.110E-06	400
80.0	325	2.700E-07	2.705E-06	400
84.0	1212	1.011E-06	7.479E-06	400
90.0	450	3.023E-07	2.020E-06	400
90.0	316	2.610E-07	1.930E-06	400
90.0	600	5.067E-07	1.750E-06	400
102.0	60	5.775E-06	9.274E-07	400

CROSS-ING INTER-AIR = 8.375E-04
SEC/SEC 1/2

TEST U-5 A/C: 4, 1961 1135 TO 1235 PST
71°N SURFICE RELEASE FROM ELEVATION OF 56M
500M ARC SURFICE RELEASE RATE 7.0 M/SEC AT 56M

AZIMUTH	EXPLOSIVE	FZ	FZC	DISTANCE
DEGREES	GT-500000	SEC/SEC	1/SEC	FEET
14.0	7	4.180E-06	1.574E-06	500
20.0	170	1.264E-07	1.020E-06	500
20.0	215	5.261E-07	0.011E-06	500
30.0	1174	3.720E-07	7.250E-06	500
30.0	2100	1.707E-06	1.200E-05	500
30.0	3410	1.170E-06	2.153E-05	500
40.0	3350	2.702E-06	2.066E-05	500
40.0	2370	1.027E-06	1.030E-05	500
40.0	1512	1.310E-06	2.097E-06	500
50.0	312	2.000E-07	2.102E-06	500
50.0	1202	1.077E-06	1.067E-06	500
60.0	202	2.563E-07	5.907E-06	500
60.0	537	1.070E-07	1.312E-06	500
60.0	00	3.101E-06	6.156E-07	500
70.0	230	1.053E-07	1.005E-06	500
70.0	320	2.720E-07	2.019E-06	500
80.0	033	6.000E-07	5.139E-06	500
80.0	1300	1.150E-06	0.573E-06	500
80.0	465	7.212E-07	5.337E-06	500
90.0	500	1.503E-07	1.332E-06	500
90.0	320	2.074E-07	2.127E-06	500
100.0	110	1.051E-07	2.550E-06	500

CROSS-ING INTER-AIR = 4.703E-04
SEC/SEC 1/2

TEST 1-45 1-0000 61 1041 1125 TO 1215 051
 7110 SUFFICIENT FLIGHTS FOR CALCULATION OF 50
 120 SUFFICIENT FLIGHTS FOR 71.1 1250 01 560

871 114 140 000 140 000 140 000 140 000
 DISTANCE
 000 000 000 000 000 000 000 000

14.0	0	0.1261-07	1.0331-08	600
16.0	40	0.0325-06	1.0307-07	600
22.0	33	0.0000-07	1.0317-06	600
26.0	1272	1.0000-06	1.0000-06	600
28.0	1770	1.0000-06	1.0000-05	600
30.0	2102	2.0000-06	1.0000-05	600
32.0	1122	1.0000-06	1.0000-05	600
34.0	2447	2.0000-06	1.0000-05	600
36.0	3304	2.0000-06	1.0000-05	600
38.0	4022	3.0000-07	1.0000-06	600
40.0	4000	1.0000-07	1.0000-06	600
42.0	106	1.0000-07	1.0000-06	600
44.0	175	0.0000-07	1.0000-06	600
46.0	166	1.0000-07	1.0000-06	600
48.0	16	1.0000-07	1.0000-06	600
50.0	133	1.0000-07	1.0000-06	600
52.0	464	1.0000-07	1.0000-06	600
54.0	725	1.0000-07	1.0000-06	600
56.0	760	1.0000-07	1.0000-06	600
58.0	603	1.0000-07	1.0000-06	600
60.0	603	1.0000-07	1.0000-06	600
62.0	376	1.0000-07	1.0000-06	600
64.0	33	2.0000-08	2.0000-07	600

CROSS-SECTION INTEGRATED= 0.207E-06 6.132E-03
 SEC/SEC 1/4

TEST 1-5 1-0000 61 1041 1125 TO 1215 051
 7110 SUFFICIENT FLIGHTS FOR CALCULATION OF 50
 120 SUFFICIENT FLIGHTS FOR 71.1 1250 01 560

871 114 140 000 140 000 140 000 140 000
 DISTANCE
 000 000 000 000 000 000 000 000

14.0	0	0.1261-07	1.0331-08	600
16.0	40	0.0325-06	1.0307-07	600
22.0	33	0.0000-07	1.0317-06	600
26.0	1272	1.0000-06	1.0000-06	600
28.0	1770	1.0000-06	1.0000-05	600
30.0	2102	2.0000-06	1.0000-05	600
32.0	1122	1.0000-06	1.0000-05	600
34.0	2447	2.0000-06	1.0000-05	600
36.0	3304	2.0000-06	1.0000-05	600
38.0	4022	3.0000-07	1.0000-06	600
40.0	4000	1.0000-07	1.0000-06	600
42.0	106	1.0000-07	1.0000-06	600
44.0	175	0.0000-07	1.0000-06	600
46.0	166	1.0000-07	1.0000-06	600
48.0	16	1.0000-07	1.0000-06	600
50.0	133	1.0000-07	1.0000-06	600
52.0	464	1.0000-07	1.0000-06	600
54.0	725	1.0000-07	1.0000-06	600
56.0	760	1.0000-07	1.0000-06	600
58.0	603	1.0000-07	1.0000-06	600
60.0	603	1.0000-07	1.0000-06	600
62.0	376	1.0000-07	1.0000-06	600
64.0	33	2.0000-08	2.0000-07	600

CROSS-SECTION INTEGRATED= 0.207E-06 6.132E-03
 SEC/SEC 1/4

TEST 1-5 1-0000 61 1041 1125 TO 1215 051
 7110 SUFFICIENT FLIGHTS FOR CALCULATION OF 50
 120 SUFFICIENT FLIGHTS FOR 71.1 1250 01 560

871 114 140 000 140 000 140 000 140 000
 DISTANCE
 000 000 000 000 000 000 000 000

14.0	0	0.1261-07	1.0331-08	600
16.0	40	0.0325-06	1.0307-07	600
22.0	33	0.0000-07	1.0317-06	600
26.0	1272	1.0000-06	1.0000-06	600
28.0	1770	1.0000-06	1.0000-05	600
30.0	2102	2.0000-06	1.0000-05	600
32.0	1122	1.0000-06	1.0000-05	600
34.0	2447	2.0000-06	1.0000-05	600
36.0	3304	2.0000-06	1.0000-05	600
38.0	4022	3.0000-07	1.0000-06	600
40.0	4000	1.0000-07	1.0000-06	600
42.0	106	1.0000-07	1.0000-06	600
44.0	175	0.0000-07	1.0000-06	600
46.0	166	1.0000-07	1.0000-06	600
48.0	16	1.0000-07	1.0000-06	600
50.0	133	1.0000-07	1.0000-06	600
52.0	464	1.0000-07	1.0000-06	600
54.0	725	1.0000-07	1.0000-06	600
56.0	760	1.0000-07	1.0000-06	600
58.0	603	1.0000-07	1.0000-06	600
60.0	603	1.0000-07	1.0000-06	600
62.0	376	1.0000-07	1.0000-06	600
64.0	33	2.0000-08	2.0000-07	600

CROSS-SECTION INTEGRATED= 0.207E-06 6.132E-03
 SEC/SEC 1/4

TEST C-5 TRACK #2 1041 1135 TO 1235 PST
 TIME SUFFICIENT FOR DETERMINATION OF 56"
 TRACK AGE SAMPLES OF 1.5" IS 7.0 HZ/SEC AT 56"

AZIMUTH ELEVATION ALT DISTANCE
 DEGREES DEGREES FEET/0.1" FEET/0.1" FEET/0.1"

20.0	65	6,005F-06	3,006F-07	1600
22.0	71	6,512F-06	6,010F-07	1600
24.0	67	6,410F-06	5,100F-07	1600
26.0	60	7,366F-06	5,525F-07	1600
28.0	343	2,066F-07	2,121F-06	1600
30.0	613	6,110F-07	3,702F-06	1600
32.0	551	7,003F-07	5,200F-06	1600
34.0	753	6,276F-07	4,600F-06	1600
36.0	632	5,222F-07	3,101F-06	1600
38.0	1473	1,220F-06	5,000F-06	1600
40.0	700	6,578F-07	6,066F-06	1600
42.0	1015	8,462F-07	6,262F-06	1600
44.0	801	7,333F-07	5,027F-06	1600
46.0	604	6,052F-07	3,730F-06	1600
48.0	460	3,916F-07	2,400F-06	1600
50.0	271	2,265F-07	1,676F-06	1600
52.0	233	1,909F-07	1,003F-06	1600
54.0	122	1,020F-07	7,551F-07	1600
56.0	109	0,000F-06	6,722F-07	1600
58.0	01	7,126F-06	5,310F-07	1600
60.0	17	3,000F-06	2,916F-07	1600
62.0	30	3,277F-06	2,425F-07	1600
64.0	50	4,853F-06	3,541F-07	1600
66.0	70	6,637F-06	4,011F-07	1600
68.0	53	4,030F-06	3,204F-07	1600
70.0	00	7,303F-06	5,060F-07	1600
72.0	70	6,800F-06	4,350F-07	1600
74.0	01	6,060F-06	5,157F-07	1600
76.0	167	1,390F-07	1,031F-06	1600
78.0	124	1,070F-07	7,900F-07	1600
80.0	166	1,340F-07	1,020F-06	1600
82.0	166	1,320F-07	1,020F-06	1600
84.0	04	7,006F-06	5,525F-07	1600
86.0	20	6,213F-06	6,077F-07	1600
88.0	100	4,001F-06	6,661F-07	1600
90.0	03	3,650F-06	2,701F-07	1600
92.0	23	1,521F-06	1,077F-07	1600
94.0	13	1,161F-06	0,504F-06	1600

CROSSING INTER-AIR = 5,109F-06 3,411F-03
 SECTOR/SEC 1/4

UNSTABLE SERIES EXPERIMENT: 6 (U-6)
GROUND LEVEL SAMPLING 100-1500 M ARCS. TRACER CONTAMINATION ON
100-400 M ARCS. CONTAMINATION ON 100 AND 200 M ARCS IS SO SEVERE
THAT DATA FROM THESE ARCS ARE NOT PRESENTED. TRACER DISPERSAL
DIFFICULTIES MAY HAVE RESULTED IN A VARIABLE RELEASE RATE DURING
EXPERIMENTS U-1 THROUGH U-10.

TEST 1-6 MARCH 10, 1961 1030 TO 1130 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
DOWN AND SAMPLER HT 1.5M U=13.1 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10 ⁴ ±6	F/Z SEC/CM ²	F/ZC 1/SEC	DISTANCE METERS
28.0	4359	2.323E-06	3.043E-05	300
32.0	53	2.776E-08	3.637E-07	300
36.0	155	3.106E-08	1.062E-06	300
40.0	1072	5.508E-07	7.329E-06	300
44.0	89	3.659E-08	6.104E-07	300
48.0	15	8.247E-09	1.087E-07	300
52.0	15	8.257E-09	1.087E-07	300
56.0	12	6.702E-09	8.779E-08	300

CROSS-IND INTEGRATED= 5.410E-05
SEC/SEC² 1/M

TEST 1-6 MARCH 10, 1961 1030 TO 1130 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
DOWN AND SAMPLER HT 1.5M U=13.1 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10 ⁴ ±6	F/Z SEC/CM ²	F/ZC 1/SEC	DISTANCE METERS
28.0	53	2.776E-08	3.637E-07	400
30.0	224	1.171E-07	1.534E-06	400
34.0	665	3.426E-07	4.586E-06	400
38.0	792	4.075E-07	5.339E-06	400
42.0	441	2.093E-07	2.742E-06	400
46.0	238	1.219E-07	1.597E-06	400
50.0	45	4.436E-08	5.811E-07	400
54.0	108	5.498E-08	7.400E-07	400

CROSS-IND INTEGRATED= 3.717E-05
SEC/SEC² 1/M

TEST 1-6 MARCH 10, 1961 1030 TO 1130 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
DOWN AND SAMPLER HT 1.5M U=13.1 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10 ⁴ ±6	F/Z SEC/CM ²	F/ZC 1/SEC	DISTANCE METERS
28.0	33	1.755E-08	2.299E-07	500
30.0	212	1.107E-07	1.451E-06	500
38.0	273	1.423E-07	1.865E-06	500
32.0	790	4.089E-07	5.355E-06	500
36.0	2154	1.122E-06	1.462E-05	500
40.0	776	4.043E-07	5.297E-06	500
44.0	493	3.612E-07	4.732E-06	500
48.0	680	3.577E-07	4.686E-06	500
52.0	94	4.915E-08	6.438E-07	500
56.0	8	4.468E-09	5.853E-08	500

CROSS-IND INTEGRATED= 1.035E-04
SEC/SEC² 1/M

TEST 1-6 MARCH 10, 1961 1030 TO 1130 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
DOWN AND SAMPLER HT 1.5M U=13.1 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10 ⁴ ±6	F/Z SEC/CM ²	F/ZC 1/SEC	DISTANCE METERS
10.0	8	4.468E-09	5.853E-08	600
14.0	5	2.872E-09	3.762E-08	600
18.0	118	6.159E-08	8.066E-07	600
22.0	208	1.503E-07	1.969E-06	600
26.0	539	2.811E-07	3.683E-06	600
30.0	920	4.796E-07	6.283E-06	600
34.0	2216	1.154E-06	1.512E-05	600
38.0	2721	1.417E-06	1.857E-05	600
42.0	1784	9.306E-07	1.219E-05	600
46.0	575	2.907E-07	3.926E-06	600
50.0	198	1.034E-07	1.354E-06	600
54.0	31	1.659E-08	2.174E-07	600

CROSS-IND INTEGRATED= 2.053E-04
SEC/SEC² 1/M

TEST 1-6 MARCH 10, 1961 1030 TO 1130 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
DOWN AND SAMPLER HT 1.5M U=13.1 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10 ⁴ ±6	F/Z SEC/CM ²	F/ZC 1/SEC	DISTANCE METERS
16.0	95	4.978E-08	6.572E-07	800
19.0	199	1.000E-07	1.363E-06	800
22.0	507	2.686E-07	3.466E-06	800
25.0	767	4.104E-07	5.376E-06	800
28.0	800	4.171E-07	5.464E-06	800
31.0	1438	1.009E-06	1.322E-05	800
34.0	2713	1.413E-06	1.852E-05	800
37.0	2672	1.392E-06	1.824E-05	800
40.0	2381	1.240E-06	1.625E-05	800
43.0	1505	7.841E-07	1.027E-05	800
46.0	541	2.821E-07	3.696E-06	800
49.0	391	2.039E-07	2.671E-06	800
52.0	97	4.563E-08	5.978E-07	800

CROSS-IND INTEGRATED= 3.100E-04
SEC/SEC² 1/M

TEST 1-A MARCH 10, 1961 1030 TO 1130 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF SAM
 1200M AWC SAMPLER HT 1.5M U=13.1 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GN-SEC/CLIP X10 ⁴ +	R/Z SEC/CLIP	FL/R 1/SEC	DISTANCE METERS
10.0	22	1.122E-08	1.544E-07	1200
16.0	66	3.442E-08	4.562E-07	1200
18.0	131	4.838E-08	8.055E-07	1200
20.0	359	1.872E-07	2.452E-06	1200
22.0	577	3.007E-07	3.740E-06	1200
24.0	413	2.165E-07	2.823E-06	1200
26.0	461	2.402E-07	3.146E-06	1200
28.0	941	5.114E-07	6.695E-06	1200
30.0	1407	9.415E-07	1.233E-05	1200
32.0	2471	1.079E-06	1.413E-05	1200
34.0	2640	1.398E-06	1.832E-05	1200
36.0	2001	1.042E-06	1.366E-05	1200
38.0	1212	1.673E-06	2.192E-05	1200
40.0	2692	1.402E-06	1.837E-05	1200
42.0	2044	1.088E-06	1.425E-05	1200
44.0	1048	5.460E-07	7.152E-06	1200
46.0	414	2.161E-07	2.831E-06	1200
48.0	230	1.203E-07	1.576E-06	1200
50.0	53	2.786E-08	3.649E-07	1200
52.0	16	2.653E-09	1.178E-07	1200

CROSSHAIR INTEGRATED= 4.655E-08 6.098E-03
 SEC/SEC 1/M

TEST 1-B MARCH 10, 1961 1030 TO 1130 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF SAM
 1200M AWC SAMPLER HT 1.5M U=13.1 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GN-SEC/CLIP X10 ⁴ +	R/Z SEC/CLIP	FL/R 1/SEC	DISTANCE METERS
18.0	106	5.551E-08	7.271E-07	1600
20.0	430	2.201E-07	2.936E-06	1600
22.0	337	1.740E-07	2.306E-06	1600
24.0	329	1.714E-07	2.205E-06	1600
26.0	392	2.003E-07	2.676E-06	1600
28.0	620	3.504E-07	4.711E-06	1600
30.0	1128	5.816E-07	7.697E-06	1600
32.0	1707	9.309E-07	1.220E-05	1600
34.0	1984	1.030E-06	1.354E-05	1600
36.0	1456	7.545E-07	9.937E-06	1600
38.0	1972	1.027E-06	1.346E-05	1600
40.0	2003	1.002E-06	1.365E-05	1600
42.0	1508	7.857E-07	1.029E-05	1600
44.0	640	3.335E-07	4.368E-06	1600
46.0	170	8.855E-08	1.164E-06	1600
48.0	70	3.672E-08	4.811E-07	1600
50.0	12	6.754E-09	8.847E-08	1600
52.0	14	7.387E-09	9.677E-08	1600

CROSSHAIR INTEGRATED= 4.373E-08 5.729E-03
 SEC/SEC 1/M

UNSTABLE SERIES EXPERIMENT: 7 (U-7)
GROUND LEVEL SAMPLING 100-1600 M ARCS. TRACER DISPERSAL
DIFFICULTIES MAY HAVE RESULTED IN A VARIABLE RELEASE RATE DURING
EXPERIMENTS U-1 THROUGH U-10.

TEST U-7 APRIL 12, 1961 1016 TO 1116 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56"
100M ARC SAMPLER AT 1.5' U= 9.2 M/SEC AT 56"

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	F/U 1/SEC	DISTANCE METERS
52.0	49	4.424E-08	5.912E-07	100
56.0	14	1.748E-08	2.644E-08	100
60.0	10	7.748E-09	7.128E-08	100

CROSSWIND INTEGRATED= 5.759E-07
SEC/CM² 1/M

TEST U-7 APRIL 12, 1961 1016 TO 1116 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56"
200M ARC SAMPLER AT 1.5' U= 9.2 M/SEC AT 56"

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	F/U 1/SEC	DISTANCE METERS
70.0	7	5.014E-09	4.612E-08	200
74.0	28	2.005E-08	1.845E-07	200
78.0	23	1.686E-08	1.551E-07	200
82.0	35	2.952E-08	2.348E-07	200
86.0	24	1.778E-08	1.635E-07	200
90.0	16	1.322E-08	1.216E-07	200
94.0	14	1.413E-08	1.306E-07	200
98.0	19	1.367E-08	1.258E-07	200
102.0	25	1.823E-08	1.677E-07	200
106.0	21	1.504E-08	1.384E-07	200

CROSSWIND INTEGRATED= 2.227E-06
SEC/CM² 1/M

TEST U-7 APRIL 12, 1961 1016 TO 1116 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56"
300M ARC SAMPLER AT 1.5' U= 9.2 M/SEC AT 56"

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	F/U 1/SEC	DISTANCE METERS
40.0	124	9.888E-08	8.617E-07	300
46.0	73	5.241E-08	4.822E-07	300
52.0	179	1.285E-07	1.182E-06	300
58.0	276	1.974E-07	1.816E-06	300
60.0	642	4.872E-07	4.482E-06	300
64.0	120	8.614E-08	7.925E-07	300
68.0	216	1.641E-07	1.556E-06	300
72.0	68	4.922E-08	4.529E-07	300
76.0	148	1.057E-07	9.728E-07	300
80.0	236	1.700E-07	1.564E-06	300
84.0	112	8.022E-08	7.380E-07	300
86.0	128	9.161E-08	8.428E-07	300
92.0	54	3.920E-08	3.606E-07	300
96.0	14	1.048E-08	9.644E-08	300
100.0	20	1.458E-08	1.342E-07	300
104.0	19	1.367E-08	1.258E-07	300

CROSSWIND INTEGRATED= 3.737E-05
SEC/CM² 1/M

TEST U-7 APRIL 12, 1961 1016 TO 1116 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56"
400M ARC SAMPLER AT 1.5' U= 9.2 M/SEC AT 56"

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	F/U 1/SEC	DISTANCE METERS
42.0	52	3.787E-08	3.438E-07	400
46.0	24	1.686E-08	1.551E-06	400
50.0	38	2.489E-08	2.284E-06	400
54.0	792	5.324E-07	4.944E-06	400
58.0	1008	7.848E-07	7.221E-06	400
62.0	628	4.489E-07	4.138E-06	400
66.0	602	6.307E-07	5.963E-06	400
70.0	404	5.440E-07	5.183E-06	400
74.0	304	2.800E-07	2.658E-06	400
78.0	400	2.862E-07	2.633E-06	400
82.0	400	2.862E-07	2.633E-06	400
86.0	281	1.727E-07	1.589E-06	400
90.0	167	1.390E-07	1.233E-06	400
94.0	102	7.388E-08	6.751E-07	400
98.0	1	1.367E-09	1.258E-08	400
102.0	8	4.381E-08	5.870E-08	400
106.0	3	5.925E-09	5.451E-08	400

CROSSWIND INTEGRATED= 1.189E-04
SEC/CM² 1/M

TEST U-7 APRIL 12, 1961 1016 TO 1116 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56"
500M ARC SAMPLER AT 1.5' U= 9.2 M/SEC AT 56"

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	F/U 1/SEC	DISTANCE METERS
40.0	34	2.441E-08	2.264E-07	500
46.0	88	6.290E-08	5.787E-07	500
48.0	519	3.710E-07	3.413E-06	500
52.0	875	6.253E-07	5.753E-06	500
56.0	1505	1.189E-06	1.088E-05	500
60.0	1065	1.046E-06	9.627E-06	500
64.0	1080	7.721E-07	7.103E-06	500
68.0	736	5.219E-07	4.801E-06	500
72.0	295	7.110E-07	6.541E-06	500
76.0	1006	7.188E-07	6.613E-06	500
80.0	690	4.644E-07	4.273E-06	500
84.0	403	2.891E-07	2.650E-06	500
88.0	216	1.559E-07	1.434E-06	500
92.0	190	1.383E-07	1.254E-06	500
96.0	17	1.276E-08	1.176E-07	500
100.0	5	6.102E-09	5.774E-08	500

CROSSWIND INTEGRATED= 2.463E-04
SEC/CM² 1/M

TEST 11-7 APRIL 12, 1961 1016 TO 1116 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLER HT 1.5M W= 9.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	F/U/Z 1/SEC	DISTANCE METERS
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42.0	89	4.426E-09	5.912E-07	600
46.0	234	1.677E-07	1.545E-06	600
50.0	425	4.971E-07	4.113E-06	600
54.0	1084	7.748E-07	7.128E-06	600
58.0	2294	1.640E-06	1.509E-05	600
62.0	1375	9.222E-07	9.036E-06	600
66.0	1302	9.594E-07	8.822E-06	600
70.0	1172	8.373E-07	7.703E-06	600
74.0	1582	1.130E-06	1.040E-05	600
78.0	923	8.595E-07	8.067E-06	600
82.0	423	3.022E-07	2.780E-06	600
86.0	477	3.418E-07	3.101E-06	600
90.0	157	1.126E-07	1.036E-06	600
94.0	30	2.188E-08	2.013E-07	600
98.0	10	7.292E-09	6.709E-08	600
102.0	8	5.925E-09	5.451E-08	600

CROSSWIND INTEGRATED= 1.541E-09 SEC/50.M
1/M

TEST 11-7 APRIL 12, 1961 1016 TO 1116 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M W= 9.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	F/U/Z 1/SEC	DISTANCE METERS
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40.0	3	2.679E-09	2.465E-08	1200
44.0	83	5.983E-08	5.505E-07	1200
48.0	130	9.317E-08	8.572E-07	1200
50.0	184	1.319E-07	1.213E-06	1200
52.0	804	2.290E-07	2.159E-06	1200
54.0	174	3.388E-07	3.117E-06	1200
56.0	524	3.777E-07	3.475E-06	1200
58.0	798	5.708E-07	5.204E-06	1200
60.0	786	5.417E-07	5.168E-06	1200
62.0	773	5.522E-07	5.080E-06	1200
64.0	536	3.796E-07	3.483E-06	1200
66.0	471	3.367E-07	3.097E-06	1200
68.0	790	5.627E-07	5.195E-06	1200
70.0	1014	7.245E-07	6.666E-06	1200
72.0	840	4.287E-07	5.780E-06	1200
74.0	815	5.822E-07	5.357E-06	1200
76.0	645	4.611E-07	4.242E-06	1200
78.0	387	2.768E-07	2.547E-06	1200
80.0	423	3.020E-07	2.782E-06	1200
82.0	188	1.345E-07	1.238E-06	1200
84.0	202	1.444E-07	1.328E-06	1200
86.0	134	9.615E-08	8.846E-07	1200
88.0	100	7.174E-08	6.600E-07	1200
90.0	32	2.322E-08	2.136E-07	1200
92.0	4	2.977E-09	2.739E-08	1200

CROSSWIND INTEGRATED= 1.228E-09 SEC/50.M
1/M

TEST 11-7 APRIL 12, 1961 1016 TO 1116 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M W= 9.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	F/U/Z 1/SEC	DISTANCE METERS
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43.0	65	4.695E-08	4.319E-07	800
46.0	118	8.432E-08	7.757E-07	800
49.0	307	2.107E-07	2.021E-06	800
52.0	870	6.217E-07	5.719E-06	800
55.0	1495	1.354E-06	1.245E-05	800
58.0	1497	1.070E-06	9.841E-06	800
61.0	1834	1.310E-06	1.206E-05	800
64.0	1625	1.141E-06	1.068E-05	800
67.0	2030	1.450E-06	1.334E-05	800
70.0	1651	1.180E-06	1.085E-05	800
73.0	1604	1.146E-06	1.054E-05	800
76.0	1532	1.094E-06	1.007E-05	800
79.0	604	4.321E-07	3.975E-06	800
82.0	501	3.582E-07	3.296E-06	800
85.0	227	1.623E-07	1.493E-06	800
88.0	224	1.604E-07	1.476E-06	800
91.0	74	5.333E-08	4.906E-07	800
94.0	7	5.014E-09	4.612E-08	800
97.0	6	4.558E-09	4.193E-08	800

CROSSWIND INTEGRATED= 4.990E-09 SEC/50.M
1/M

TEST 11-7 APRIL 12, 1961 1016 TO 1116 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M W= 9.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	F/U/Z 1/SEC	DISTANCE METERS
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40.0	5	3.572E-09	3.286E-08	1600
46.0	2	1.488E-09	1.369E-08	1600
48.0	18	1.141E-08	1.095E-07	1600
50.0	70	5.001E-08	4.601E-07	1600
52.0	140	7.204E-08	6.627E-07	1600
54.0	183	1.310E-07	1.205E-06	1600
56.0	399	2.855E-07	2.626E-06	1600
58.0	281	2.009E-07	1.849E-06	1600
60.0	580	4.147E-07	3.815E-06	1600
62.0	327	2.340E-07	2.153E-06	1600
64.0	492	2.873E-07	2.643E-06	1600
66.0	284	2.033E-07	1.870E-06	1600
68.0	323	2.313E-07	2.128E-06	1600
70.0	297	1.482E-07	1.364E-06	1600
72.0	412	2.947E-07	2.711E-06	1600
74.0	432	3.090E-07	2.843E-06	1600
76.0	417	2.986E-07	2.747E-06	1600
78.0	242	1.872E-07	1.723E-06	1600
80.0	169	1.212E-07	1.115E-06	1600
82.0	111	7.278E-08	7.339E-07	1600
84.0	78	5.596E-08	5.149E-07	1600
86.0	64	4.733E-08	4.354E-07	1600
88.0	28	1.459E-08	1.382E-07	1600
90.0	4	2.977E-09	2.739E-08	1600

CROSSWIND INTEGRATED= 2.059E-09 SEC/50.M
1/M

UNSTABLE SERIES EXPERIMENT: 8 (U-8)
GROUND LEVEL SAMPLING 100-1600 M ARCS. TRACER DISPERSAL
DIFFICULTIES MAY HAVE RESULTED IN A VARIABLE RELEASE RATE DURING
EXPERIMENTS U-1 THROUGH U-10.

TEST 1-8 CONDUCTED 10, 1961 1315 TO 1350 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56"
1000' AND DOWNWIND AT 1.5% U=13.5 KZSEC AT 56"

AZIMUTH DEGREES DOWNWIND	EXPOSURE MINUTES	F/A SEC/SEC	F/Z 1/SEC	DISTANCE FEET
32.0	11	1.072E-06	1.007E-07	100
36.0	1	1.531E-06	2.067E-08	100
40.0	6	5.615E-07	7.500E-08	100
44.0	8	8.677E-07	1.171E-07	100
48.0	22	2.002E-07	2.351E-07	100
52.0	11	1.072E-06	1.007E-07	100
56.0	21	1.991E-06	2.607E-07	100
60.0	15	1.370E-06	1.006E-07	100
64.0	15	1.370E-06	1.006E-07	100
68.0	21	1.991E-06	2.607E-07	100
72.0	6	9.503E-06	1.512E-06	100
76.0	15	1.370E-06	2.303E-07	100
80.0	15	1.370E-06	1.006E-07	100
84.0	12	1.170E-06	1.355E-07	100
88.0	16	1.006E-06	1.006E-07	100
92.0	66	6.270E-06	6.075E-07	100
96.0	25	2.660E-06	3.503E-07	100
100.0	25	2.660E-06	3.101E-07	100
104.0	16	1.327E-06	1.292E-07	100

CROSSWIND INTEGRATED = 2.191E-06
SEC/SEC

TEST 1-7 CONDUCTED 10, 1961 1315 TO 1350 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56"
3000' AND DOWNWIND AT 1.5% U=13.5 KZSEC AT 56"

AZIMUTH DEGREES DOWNWIND	EXPOSURE MINUTES	F/A SEC/SEC	F/Z 1/SEC	DISTANCE FEET
20.0	0	7.654E-06	1.030E-07	300
24.0	11	1.072E-06	1.007E-07	300
28.0	10	9.696E-06	1.309E-07	300
32.0	06	9.003E-06	6.512E-07	300
36.0	72	6.635E-06	6.655E-07	300
40.0	57	5.257E-06	7.007E-07	300
44.0	1503	1.267E-06	1.210E-05	300
48.0	091	6.320E-07	1.537E-06	300
52.0	127	1.164E-07	1.571E-06	300
56.0	50	0.951E-06	6.606E-07	300
60.0	50	9.503E-06	6.202E-07	300
64.0	25	2.275E-06	3.101E-07	300
68.0	7	6.635E-06	6.655E-06	300
72.0	33	1.062E-06	4.136E-07	300
76.0	16	1.531E-06	2.067E-07	300
80.0	16	1.006E-06	1.006E-07	300
84.0	9	6.677E-06	1.171E-07	300
88.0	2	2.552E-06	3.005E-08	300
92.0	1	1.531E-06	2.067E-08	300
96.0	5	0.500E-06	6.202E-08	300
100.0	4	0.951E-06	6.651E-08	300

CROSSWIND INTEGRATED = 5.009E-05
SEC/SEC

TEST 1-6 CONDUCTED 10, 1961 1315 TO 1350 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56"
2000' AND DOWNWIND AT 1.5% U=13.5 KZSEC AT 56"

AZIMUTH DEGREES DOWNWIND	EXPOSURE MINUTES	F/A SEC/SEC	F/Z 1/SEC	DISTANCE FEET
24.0	6	0.003E-06	5.512E-08	200
30.0	6	5.615E-06	7.500E-08	200
36.0	6	6.167E-06	1.102E-07	200
32.0	05	1.105E-06	1.450E-07	200
40.0	11	0.167E-06	1.200E-07	200
44.0	13	1.276E-06	1.723E-07	200
48.0	17	1.500E-06	2.136E-07	200
52.0	20	2.205E-06	3.642E-07	200
56.0	23	2.165E-06	2.063E-07	200
60.0	24	2.207E-06	3.101E-07	200
64.0	11	1.072E-06	1.007E-07	200
68.0	31	3.318E-06	6.075E-07	200
72.0	20	1.837E-06	2.001E-07	200
76.0	17	1.633E-06	2.265E-07	200
80.0	11	1.021E-06	1.378E-07	200
84.0	20	1.837E-06	2.001E-07	200
88.0	10	0.690E-06	1.309E-07	200
92.0	17	1.502E-06	2.136E-07	200
96.0	20	1.006E-06	2.550E-07	200
100.0	15	1.020E-06	1.020E-07	200
104.0	11	1.072E-06	1.007E-07	200

CROSSWIND INTEGRATED = 4.832E-06
SEC/SEC

TEST 1-5 CONDUCTED 10, 1961 1315 TO 1350 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56"
4000' AND DOWNWIND AT 1.5% U=13.5 KZSEC AT 56"

AZIMUTH DEGREES DOWNWIND	EXPOSURE MINUTES	F/A SEC/SEC	F/Z 1/SEC	DISTANCE FEET
26.0	16	1.007E-06	1.006E-07	400
30.0	6	6.167E-06	1.102E-07	400
36.0	20	0.620E-06	1.165E-06	400
38.0	136	1.002E-07	1.001E-06	400
42.0	232	2.120E-07	2.673E-06	400
46.0	194	1.701E-07	2.605E-06	400
50.0	156	1.055E-07	1.064E-06	400
54.0	67	6.176E-08	6.310E-07	400
58.0	18	1.735E-06	2.303E-07	400
62.0	16	1.531E-06	2.067E-07	400
66.0	5	0.590E-06	6.202E-08	400
70.0	1	1.021E-06	1.378E-08	400
74.0	3	0.062E-06	0.134E-06	400
78.0	6	6.125E-06	6.269E-08	400
82.0	1	1.021E-06	1.378E-08	400
86.0	7	6.635E-06	6.655E-08	400
90.0	17	1.502E-06	2.136E-07	400
94.0	5	5.104E-06	6.691E-08	400

CROSSWIND INTEGRATED = 2.090E-05
SEC/SEC

TEST 1-H CONCENTR 10, 1000 1315 TO 1350 PST
ZINC SULFIDE RELEASE FROM ELUTION OF 560
5000 ABE SLOPE OF 1.5 $\Delta=13.5 \times ZSE$ AT 560

AZIMUTH	EXPOSURE	FZ	FZ ²	DISTANCE
DEGREES	CM-HOUR	PERCENT	PERCENT	FEET

32.0	56	3.31E-07	0.079E-07	500
36.0	134	1.25E-07	1.56E-06	500
40.0	424	3.87E-07	5.20E-06	500
40.0	491	0.057E-07	6.07E-06	500
48.0	120	1.73E-07	2.83E-06	500
52.0	177	1.60E-07	2.55E-06	500
56.0	53	0.60E-08	6.15E-07	500
60.0	94	7.66E-08	1.03E-06	500
60.0	20	3.18E-08	6.27E-07	500
68.0	6	6.12E-09	8.28E-08	500
72.0	1	0.83E-09	1.95E-08	500

CROSS-SECTION INTEGRATE = 5.20E-05
SLOPE = 1.5

TEST 1-H CONCENTR 10, 1000 1315 TO 1350 PST
ZINC SULFIDE RELEASE FROM ELUTION OF 560
6000 ABE SLOPE OF 1.5 $\Delta=13.5 \times ZSE$ AT 560

AZIMUTH	EXPOSURE	FZ	FZ ²	DISTANCE
DEGREES	CM-HOUR	PERCENT	PERCENT	FEET

30.0	70	6.70E-08	6.73E-07	600
34.0	275	2.61E-07	3.53E-06	600
36.0	260	6.26E-07	6.35E-06	600
42.0	402	4.33E-07	5.62E-06	600
46.0	253	2.31E-07	3.12E-06	600
50.0	125	1.71E-07	2.91E-06	600
56.0	53	0.52E-08	1.15E-06	600
58.0	29	7.95E-08	6.52E-07	600
62.0	6	2.67E-09	1.17E-07	600
66.0	15	1.37E-09	1.06E-07	600

CROSS-SECTION INTEGRATE = 9.66E-05
SLOPE = 1.5

TEST 1-H CONCENTR 10, 1000 1315 TO 1350 PST
ZINC SULFIDE RELEASE FROM ELUTION OF 560
8000 ABE SLOPE OF 1.5 $\Delta=13.5 \times ZSE$ AT 560

AZIMUTH	EXPOSURE	FZ	FZ ²	DISTANCE
DEGREES	CM-HOUR	PERCENT	PERCENT	FEET

31.0	6	6.12E-09	7.26E-08	800
36.0	45	6.26E-09	6.01E-07	800
37.0	623	7.60E-07	8.43E-06	800
40.0	600	5.00E-07	7.02E-06	800
43.0	1023	1.65E-07	2.72E-05	800
46.0	422	6.31E-07	5.65E-06	800
49.0	600	6.36E-07	5.73E-06	800
52.0	95	1.51E-07	1.12E-06	800
55.0	17	7.65E-08	3.05E-08	800
58.0	110	1.64E-07	2.68E-06	800
61.0	25	7.15E-08	5.71E-07	800
64.0	45	3.21E-08	1.31E-07	800
67.0	13	1.62E-08	1.72E-07	800
70.0	5	5.10E-09	1.51E-08	800
82.0	5	0.90E-09	6.00E-08	800

CROSS-SECTION INTEGRATE = 2.01E-04
SLOPE = 1.5

TEST 1-H CONCENTR 10, 1000 1315 TO 1350 PST
ZINC SULFIDE RELEASE FROM ELUTION OF 560
12000 ABE SLOPE OF 1.5 $\Delta=13.5 \times ZSE$ AT 560

AZIMUTH	EXPOSURE	FZ	FZ ²	DISTANCE
DEGREES	CM-HOUR	PERCENT	PERCENT	FEET

7	0.0	1.30E-09	2.25E-07	1200
7	8.0	1.32E-09	3.75E-07	1200
7	8.0	1.373E-09	2.453E-07	1200
7	10.0	5.20E-09	2.43E-06	1200
7	12.0	7.68E-09	1.03E-05	1200
7	14.0	7.68E-09	1.03E-05	1200
7	16.0	1.00E-08	1.40E-05	1200
7	18.0	6.50E-09	6.38E-06	1200
7	20.0	1.66E-09	5.65E-06	1200
7	22.0	1.30E-09	1.67E-06	1200
20.0	0	0.00E+00	0.00E+00	1200
24.0	0	0.00E+00	0.00E+00	1200
28.0	2	2.03E-09	2.27E-06	1200
30.0	1	1.74E-09	2.30E-06	1200
32.0	11	1.77E-09	1.45E-05	1200
34.0	44	0.10E-08	5.53E-07	1200
36.0	63	7.61E-09	1.02E-06	1200
38.0	245	3.60E-07	1.03E-06	1200
40.0	570	6.26E-07	2.11E-06	1200
42.0	540	0.98E-07	6.73E-06	1200
44.0	259	2.76E-07	3.70E-06	1200
46.0	370	3.39E-07	0.55E-06	1200
48.0	410	2.50E-07	3.45E-06	1200
50.0	301	3.12E-07	6.21E-06	1200
52.0	210	1.92E-07	2.60E-06	1200
54.0	100	0.20E-08	1.20E-06	1200
56.0	140	1.52E-07	2.05E-06	1200
58.0	70	7.23E-08	5.76E-07	1200
60.0	51	0.72E-08	1.38E-07	1200
62.0	21	1.90E-09	2.25E-07	1200
64.0	7	7.20E-09	6.75E-08	1200
66.0	0	3.47E-10	1.60E-09	1200
68.0	3	3.12E-09	0.22E-08	1200
70.0	6	3.67E-10	0.60E-09	1200
72.0	0	0.00E+00	0.10E+00	1200
74.0	2	2.05E-09	2.15E-06	1200
76.0	0	0.00E+00	0.00E+00	1200
78.0	0	3.17E-10	6.65E-09	1200
80.0	0	6.96E-10	6.38E-09	1200
82.0	1	1.00E-09	1.00E-08	1200
84.0	0	3.47E-10	6.65E-09	1200
86.0	0	0.00E+00	0.00E+00	1200
88.0	0	5.52E-10	2.56E-09	1200

CROSS-SECTION INTEGRATE = 1.01E-04
SLOPE = 1.5

ACTIVITY	DATE	BY	TIME	DESCRIPTION
RECEIVED	11/11/77	SEAFORD	1250	RECEIVED

32.0	2.4	2.2564E+06	1.4004E+08	1.6E0
36.0	2.0	2.4071E+08	2.4117E+07	1.6E0
36.0	1.5	6.0091E+08	3.1845E+07	1.6E0
40.0	2.05	2.4117E+07	3.4533E+06	1.6E0
42.0	1.75	4.5173E+07	5.0511E+06	1.6E0
44.0	1.75	3.5106E+07	4.0334E+06	1.6E0
46.0	1.65	1.0549E+07	4.1270E+06	1.6E0
48.0	1.55	3.0295E+07	6.0099E+06	1.6E0
50.0	2.11	1.5366E+07	2.8140E+06	1.6E0
52.0	1.65	1.5266E+07	2.0060E+06	1.6E0
54.0	1.26	1.1431E+07	3.4736E+06	1.6E0
56.0	1.11	1.0001E+07	1.4559E+06	1.6E0
58.0	1.22	3.0199E+08	1.2777E+06	1.6E0
60.0	2.5	4.0000E+07	3.2388E+07	1.6E0
62.0	1.2	1.1127E+07	1.5002E+07	1.6E0
64.0	3	3.0000E+06	1.0794E+07	1.6E0
70.0	7	6.0000E+05	6.3808E+08	1.6E0
76.0	5	0.0000E+00	6.0000E+00	1.6E0
78.0	5	2.0000E+05	3.2000E+08	1.6E0

CROSS, T. L. T. 1941. 1.5261-14 2.1578-03
SECURITY 1/2

UNSTABLE SERIES EXPERIMENT: 9 (U-9)
GROUND LEVEL SAMPLING 100-1600 M ARCS. THE TRACER WAS NOT
DETECTED ON THE 100 M ARC. TRACER DISPERSAL DIFFICULTIES MAY
HAVE RESULTED IN A VARIABLE RELEASE RATE DURING EXPERIMENTS U-1
THROUGH U-10. A LIGHT RAIN FELL DURING THE EXPERIMENT

TEST U-9 SEPTEMBER 27, 1962 0942 TO 1042 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC SAMPLER HT 1.5M U= 7.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	EU/G 1/SG.M	DISTANCE METERS
18.0	95	7.814E-08	6.175E-07	200
22.0	31	2.563E-08	2.024E-07	200
26.0	18	1.538E-08	1.215E-07	200
30.0	114	9.418E-08	7.440E-07	200
34.0	526	4.312E-07	3.408E-06	200
38.0	311	2.556E-07	2.019E-06	200
42.0	344	2.825E-07	2.232E-06	200
46.0	253	2.078E-07	1.640E-06	200
50.0	214	1.755E-07	1.387E-06	200
54.0	108	8.905E-08	7.035E-07	200
58.0	299	2.454E-07	1.938E-06	200
62.0	1417	1.182E-06	9.181E-06	200
66.0	1434	1.179E-06	9.318E-06	200
70.0	1417	1.161E-06	9.178E-06	200
74.0	610	5.003E-07	3.953E-06	200
78.0	1161	9.520E-07	7.521E-06	200
82.0	880	7.220E-07	5.704E-06	200
86.0	630	5.170E-07	4.084E-06	200
90.0	417	3.421E-07	2.703E-06	200
94.0	42	3.524E-08	2.784E-07	200
98.0	67	5.574E-08	4.403E-07	200
102.0	71	5.894E-08	4.656E-07	200

CROSSWIND INTEGRATED= 1.199E-04 SEC/SG.M
9.471E-04 1/M

TEST U-9 SEPTEMBER 27, 1962 0942 TO 1042 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M U= 7.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	EU/G 1/SG.M	DISTANCE METERS
16.0	419	3.440E-07	2.718E-06	300
20.0	25	2.114E-08	1.670E-07	300
24.0	204	1.679E-07	1.326E-06	300
28.0	1015	8.322E-07	6.574E-06	300
32.0	1216	9.975E-07	7.880E-06	300
36.0	598	4.907E-07	3.877E-06	300
40.0	522	4.286E-07	3.386E-06	300
44.0	664	5.446E-07	4.302E-06	300
48.0	736	6.035E-07	4.768E-06	300
52.0	502	4.119E-07	3.254E-06	300
56.0	1060	8.694E-07	6.868E-06	300
60.0	2379	1.951E-06	1.541E-05	300
64.0	4561	3.719E-06	2.954E-05	300
68.0	2891	2.370E-06	1.873E-05	300
72.0	4361	3.575E-06	2.824E-05	300
76.0	3250	2.664E-06	2.105E-05	300
80.0	952	7.810E-07	6.170E-06	300
84.0	429	3.524E-07	2.784E-06	300
88.0	176	1.408E-07	1.144E-06	300
92.0	904	7.412E-07	5.856E-06	300
96.0	47	3.908E-08	3.087E-07	300
100.0	46	3.780E-08	2.986E-07	300
104.0	14	1.153E-08	9.110E-08	300

CROSSWIND INTEGRATED= 4.632E-04 SEC/SG.M
3.660E-03 1/M

TEST U-9 SEPTEMBER 27, 1962 0942 TO 1042 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 7.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	EU/G 1/SG.M	DISTANCE METERS
26.0	53	4.420E-08	3.492E-07	400
30.0	732	6.003E-07	4.742E-06	400
34.0	842	4.906E-07	3.956E-06	400
38.0	617	5.061E-07	3.998E-06	400
42.0	716	5.875E-07	4.641E-06	400
46.0	1717	1.408E-06	1.112E-05	400
50.0	1861	1.526E-06	1.206E-05	400
54.0	1228	1.007E-06	7.956E-06	400
58.0	1259	1.033E-06	8.159E-06	400
62.0	4714	3.844E-06	3.053E-05	400
66.0	3610	2.960E-06	2.338E-05	400
70.0	1193	9.783E-07	7.728E-06	400
74.0	2552	2.092E-06	1.653E-05	400
78.0	563	4.619E-07	3.649E-06	400
82.0	206	1.691E-07	1.336E-06	400
86.0	578	4.741E-07	3.745E-06	400
90.0	1103	9.046E-07	7.146E-06	400
94.0	965	7.912E-07	6.251E-06	400
98.0	66	5.446E-08	4.302E-07	400
102.0	3	3.203E-09	2.531E-08	400
106.0	10	8.328E-09	6.579E-08	400

CROSSWIND INTEGRATED= 5.631E-04 SEC/SG.M
4.448E-03 1/M

TEST U-9 SEPTEMBER 27, 1962 0942 TO 1042 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
500M ARC SAMPLER HT 1.5M U= 7.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	EU/G 1/SG.M	DISTANCE METERS
24.0	3	2.563E-09	2.024E-08	500
28.0	146	1.204E-07	9.515E-07	500
32.0	13	1.089E-08	8.604E-08	500
36.0	407	3.358E-07	2.637E-06	500
40.0	411	3.376E-07	2.667E-06	500
44.0	1549	1.270E-06	1.003E-05	500
48.0	2132	1.748E-06	1.381E-05	500
52.0	944	7.739E-07	6.114E-06	500
56.0	2203	1.808E-06	1.427E-05	500
60.0	2520	2.066E-06	1.632E-05	500
64.0	2773	2.273E-06	1.796E-05	500
68.0	2192	1.789E-06	1.414E-05	500
72.0	1130	9.270E-07	7.323E-06	500
76.0	855	7.009E-07	5.537E-06	500
80.0	364	2.985E-07	2.358E-06	500
84.0	474	3.899E-07	3.072E-06	500
88.0	1111	9.104E-07	7.192E-06	500
92.0	781	6.406E-07	5.061E-06	500
96.0	297	2.438E-07	1.923E-06	500
100.0	10	8.328E-09	6.579E-08	500
104.0	3	3.203E-09	2.531E-08	500

CROSSWIND INTEGRATED= 5.813E-04 SEC/SG.M
4.592E-03 1/M

TEST U-9 SEPTEMBER 27, 1962 0942 TO 1042 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M APC SAMPLER HT 1.5M U= 7.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	F/C SEC/CM	FL/C 1/SEC	DISTANCE METERS
26.0	149	1.224E-07	9.667E-07	600
30.0	10	1.153E-08	9.110E-08	600
34.0	14	1.153E-08	9.110E-08	600
38.0	25	2.050E-08	1.620E-07	600
42.0	59	4.469E-08	3.846E-07	600
46.0	1717	1.488E-06	1.112E-05	600
50.0	1640	1.345E-06	1.062E-05	600
54.0	1950	1.598E-06	1.263E-05	600
58.0	2598	2.130E-06	1.822E-05	600
62.0	1967	1.613E-06	1.274E-05	600
66.0	3497	2.867E-06	2.265E-05	600
70.0	886	7.265E-07	5.739E-06	600
74.0	629	5.164E-07	4.079E-06	600
78.0	535	4.388E-07	3.467E-06	600
82.0	501	4.107E-07	3.244E-06	600
86.0	581	4.766E-07	3.765E-06	600
90.0	507	4.158E-07	3.285E-06	600
94.0	310	2.543E-07	2.009E-06	600
98.0	16	1.345E-08	1.063E-07	600

CROSSHAID INTEGRATED= 6.043E-04 SEC/90.0
1/M

TEST U-9 SEPTEMBER 27, 1962 0942 TO 1042 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M APC SAMPLER HT 1.5M U= 7.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	F/C SEC/CM	FL/C 1/SEC	DISTANCE METERS
19.0	26	2.178E-08	1.721E-07	800
22.0	0	0.000E+00	0.000E+00	800
25.0	5	4.465E-09	3.543E-08	800
28.0	125	1.025E-07	8.098E-07	800
31.0	457	3.788E-07	2.981E-06	800
34.0	471	3.863E-07	3.052E-06	800
37.0	355	2.915E-07	2.303E-06	800
40.0	149	1.224E-07	9.667E-07	800
43.0	182	1.499E-07	1.184E-06	800
46.0	739	6.061E-07	4.788E-06	800
49.0	1383	1.134E-06	8.658E-06	800
52.0	1928	1.580E-06	1.249E-05	800
55.0	2173	1.782E-06	1.408E-05	800
58.0	2551	2.091E-06	1.652E-05	800
61.0	2791	2.288E-06	1.808E-05	800
64.0	1941	1.591E-06	1.257E-05	800
67.0	1074	8.809E-07	6.959E-06	800
70.0	553	4.536E-07	3.583E-06	800
73.0	479	3.927E-07	3.102E-06	800
76.0	300	2.460E-07	1.943E-06	800
79.0	261	2.100E-07	1.690E-06	800
82.0	347	2.851E-07	2.252E-06	800
85.0	371	3.043E-07	2.404E-06	800
88.0	343	2.819E-07	2.227E-06	800
91.0	629	5.157E-07	4.074E-06	800
94.0	206	1.691E-07	1.336E-06	800
97.0	42	3.524E-08	2.784E-07	800

CROSSHAID INTEGRATED= 6.830E-04 SEC/90.0
1/M

TEST U-9 SEPTEMBER 27, 1962 0942 TO 1042 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200M APC SAMPLER HT 1.5M U= 7.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	F/C SEC/CM	FL/C 1/SEC	DISTANCE METERS
32.0	23	1.926E-08	1.521E-07	1200
34.0	68	5.581E-08	4.409E-07	1200
36.0	128	1.057E-07	8.352E-07	1200
38.0	159	1.309E-07	1.034E-06	1200
40.0	75	6.210E-08	4.908E-07	1200
42.0	15	2.968E-08	2.329E-07	1200
44.0	177	1.458E-07	1.152E-06	1200
46.0	217	1.784E-07	1.410E-06	1200
48.0	302	2.476E-07	1.956E-06	1200
50.0	1174	9.625E-07	7.604E-06	1200
52.0	2449	2.008E-06	1.586E-05	1200
54.0	3442	2.821E-06	2.229E-05	1200
56.0	1331	1.091E-06	8.622E-06	1200
58.0	670	5.498E-07	4.344E-06	1200
60.0	781	6.402E-07	5.058E-06	1200
62.0	783	6.426E-07	5.076E-06	1200
64.0	649	5.325E-07	4.207E-06	1200
66.0	606	5.298E-07	4.185E-06	1200
68.0	691	5.667E-07	4.477E-06	1200
70.0	205	1.686E-07	1.332E-06	1200
72.0	346	2.841E-07	2.245E-06	1200
74.0	215	1.765E-07	1.394E-06	1200
76.0	151	1.246E-07	9.842E-07	1200
78.0	133	1.093E-07	8.631E-07	1200
80.0	116	9.589E-08	7.576E-07	1200
82.0	51	4.205E-08	3.322E-07	1200
84.0	55	4.559E-08	3.602E-07	1200
86.0	73	6.013E-08	4.750E-07	1200
88.0	66	5.424E-08	4.285E-07	1200
90.0	75	6.210E-08	4.906E-07	1200
92.0	98	4.755E-08	3.757E-07	1200
94.0	60	4.952E-08	3.912E-07	1200

CROSSHAID INTEGRATED= 5.294E-04 SEC/90.0
1/M

TEST U-9 SEPTEMBER 27, 1962 0942 TO 1002 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 1600M ARC SAMPLER MT 1.5M U= 7.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/C SEC/CU.M	FC/G 1/SG.M	DISTANCE METERS
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34.0	11	9.432E-09	7.451E-08	1600
36.0	35	2.869E-08	2.266E-07	1600
38.0	54	4.441E-08	3.502E-07	1600
40.0	48	4.009E-08	3.167E-07	1600
42.0	95	7.821E-08	6.179E-07	1600
44.0	192	1.580E-07	1.248E-06	1600
46.0	260	2.134E-07	1.686E-06	1600
48.0	300	2.464E-07	1.947E-06	1600
50.0	996	8.084E-07	6.387E-06	1600
52.0	1874	1.537E-06	1.214E-05	1600
54.0	490	4.021E-07	3.176E-06	1600
56.0	775	6.355E-07	5.020E-06	1600
58.0	1273	1.043E-06	8.243E-06	1600
60.0	1280	1.050E-06	8.293E-06	1600
62.0	692	5.675E-07	4.483E-06	1600
64.0	419	3.435E-07	2.714E-06	1600
66.0	277	2.276E-07	1.798E-06	1600
68.0	221	1.816E-07	1.434E-06	1600
70.0	237	1.945E-07	1.537E-06	1600
72.0	239	1.961E-07	1.549E-06	1600
74.0	65	5.385E-08	4.223E-07	1600
76.0	170	1.399E-07	1.105E-06	1600
78.0	46	3.852E-08	3.043E-07	1600
80.0	57	4.716E-08	3.726E-07	1600
82.0	40	3.341E-08	2.639E-07	1600
84.0	33	2.712E-08	2.142E-07	1600
86.0	23	3.537E-08	2.794E-07	1600
88.0	89	7.310E-08	5.775E-07	1600
90.0	53	4.362E-08	3.446E-07	1600
92.0	3	2.751E-09	2.173E-08	1600

CROSSHAIR INTEGRATED= 4.747E-04 3.750E-03
 SEC/SG.M 1/M

UNSTABLE SERIES EXPERIMENT: 10 (U-10)
GROUND LEVEL SAMPLING 100-1600 M ARCS. THE TRACER WAS NOT
DETECTED ON THE 100 M ARC. TRACER DISPERSAL DIFFICULTIES MAY
HAVE RESULTED IN A VARIABLE RELEASE RATE DURING EXPERIMENTS U-1
THROUGH U-10.

TEST U-10 OCTOBER 3, 1962 0930 TO 0955 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC SAMPLER HT 1.5M U = 3.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CU.M X10E+6	F/Z SEC/CU.M	F/U 1/SEC	DISTANCE METERS
30.0	0	0.000E+00	0.000E+00	200
34.0	86	1.209E-07	5.027E-07	200
38.0	6	1.100E-08	0.291E-08	200
42.0	70	1.195E-07	4.659E-07	200
46.0	113	1.823E-07	7.111E-07	200
50.0	155	2.483E-07	9.685E-07	200
54.0	247	4.275E-07	1.667E-06	200
58.0	3197	1.836E-06	7.180E-06	200
62.0	1438	2.298E-06	8.962E-06	200
66.0	1506	2.411E-06	9.403E-06	200
70.0	1502	2.403E-06	9.373E-06	200
74.0	1374	2.199E-06	8.578E-06	200
78.0	465	7.450E-07	2.906E-06	200
82.0	50	8.016E-08	3.126E-07	200
86.0	3	6.287E-08	2.452E-08	200
90.0	81	1.305E-07	5.088E-07	200
94.0	305	4.888E-07	1.908E-06	200
98.0	0	0.000E+00	0.000E+00	200
102.0	5	9.431E-08	3.678E-08	200
106.0	2	4.715E-08	1.839E-08	200

CROSSWIND INTEGRATED = 1.917E-04 7.476E-04
SEC/SQ.M 1/M

TEST U-10 OCTOBER 3, 1962 0930 TO 0955 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U = 3.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CU.M X10E+6	F/Z SEC/CU.M	F/U 1/SEC	DISTANCE METERS
34.0	202	3.288E-07	1.263E-06	400
38.0	542	9.046E-07	3.512E-06	400
42.0	2038	3.281E-06	1.272E-05	400
46.0	2255	3.609E-06	1.407E-05	400
50.0	2261	3.206E-06	1.285E-05	400
54.0	4750	7.601E-06	2.960E-05	400
58.0	6561	1.050E-05	4.094E-05	400
62.0	5155	8.289E-06	3.217E-05	400
66.0	2882	8.612E-06	1.799E-05	400
70.0	3185	5.057E-06	1.988E-05	400
74.0	2603	4.165E-06	1.624E-05	400
78.0	631	1.011E-06	3.942E-06	400
82.0	294	4.715E-07	1.839E-06	400
86.0	513	8.220E-07	3.206E-06	400
90.0	1590	2.545E-06	9.624E-06	400
94.0	1129	1.808E-06	7.049E-06	400
98.0	1518	2.877E-06	9.661E-06	400
102.0	2405	3.849E-06	1.501E-05	400
106.0	1802	2.884E-06	1.125E-05	400

CROSSWIND INTEGRATED = 1.684E-03 7.389E-03
SEC/SQ.M 1/M

TEST U-10 OCTOBER 3, 1962 0930 TO 0955 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M U = 3.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CU.M X10E+6	F/Z SEC/CU.M	F/U 1/SEC	DISTANCE METERS
24.0	4	7.859E-08	3.065E-08	300
28.0	17	2.820E-08	1.103E-07	300
32.0	93	1.463E-07	5.823E-07	300
36.0	1806	2.891E-06	1.127E-05	300
40.0	3200	5.185E-06	2.022E-05	300
44.0	3621	5.795E-06	2.260E-05	300
48.0	3569	5.712E-06	2.288E-05	300
52.0	3875	6.201E-06	2.418E-05	300
56.0	4287	6.850E-06	2.675E-05	300
60.0	5575	8.921E-06	3.479E-05	300
64.0	5627	9.005E-06	3.512E-05	300
68.0	4757	7.612E-06	2.969E-05	300
72.0	3875	6.201E-06	2.418E-05	300
76.0	2406	5.841E-06	1.898E-05	300
80.0	860	1.377E-06	5.370E-06	300
84.0	380	5.854E-07	2.127E-06	300
88.0	1701	2.722E-06	1.062E-05	300
92.0	2098	3.357E-06	1.309E-05	300
96.0	2048	3.277E-06	1.278E-05	300
100.0	773	1.237E-06	4.824E-06	300
104.0	253	4.055E-07	1.582E-06	300

CROSSWIND INTEGRATED = 1.703E-03 6.643E-03
SEC/SQ.M 1/M

TEST U-10 OCTOBER 3, 1962 0930 TO 0955 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
500M ARC SAMPLER HT 1.5M U = 3.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CU.M X10E+6	F/Z SEC/CU.M	F/U 1/SEC	DISTANCE METERS
36.0	0	1.572E-08	6.130E-09	500
40.0	166	2.656E-07	1.036E-06	500
44.0	1293	2.070E-06	8.073E-06	500
48.0	1480	2.360E-06	9.238E-06	500
52.0	2791	4.475E-06	1.745E-05	500
56.0	4764	7.622E-06	2.972E-05	500
60.0	3507	5.776E-06	2.214E-05	500
64.0	2425	4.681E-06	1.825E-05	500
68.0	2011	3.219E-06	1.255E-05	500
72.0	2181	3.401E-06	1.361E-05	500
76.0	1706	2.770E-06	1.065E-05	500
80.0	423	6.770E-07	2.642E-06	500
84.0	560	8.975E-07	3.506E-06	500
88.0	567	9.085E-07	3.543E-06	500
92.0	1143	1.838E-06	7.135E-06	500
96.0	1528	2.443E-06	9.526E-06	500
100.0	1942	3.107E-06	1.212E-05	500
104.0	1247	1.996E-06	7.785E-06	500

CROSSWIND INTEGRATED = 1.682E-03 6.597E-03
SEC/SQ.M 1/M

TEST U-10 OCTOBER 3, 1962 0930 TO 0955 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLER HT 1.5M U= 3.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CM. X10E+6	F/W SEC/CL. X10E+6	F/W 1/SEC.	DISTANCE METERS
34.0	0	0.000E+00	0.000E+00	600
42.0	7	1.257E-08	0.000E+00	600
E 46.0	1074	1.720E-06	6.706E-06	600
E 50.0	1664	2.663E-06	1.038E-05	600
E 54.0	3108	4.973E-06	1.940E-05	600
E 58.0	3108	4.973E-06	1.940E-05	600
62.0	2960	0.737E-06	1.840E-05	600
66.0	2400	3.801E-06	1.498E-05	600
70.0	1804	2.952E-06	1.151E-05	600
74.0	1191	1.907E-06	7.436E-06	600
78.0	871	1.394E-06	5.437E-06	600
82.0	493	7.890E-07	3.077E-06	600
86.0	330	5.423E-07	2.115E-06	600
90.0	1102	1.764E-06	6.878E-06	600
94.0	1748	2.798E-06	1.091E-05	600
98.0	1834	2.935E-06	1.144E-05	600
102.0	1851	2.963E-06	1.155E-05	600
106.0	415	6.689E-07	2.593E-06	600

CROSSWIND INTEGRATED= 1.744E-03 SEC/80.M
1/M

TEST U-10 OCTOBER 3, 1962 0930 TO 0955 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLER HT 1.5M U= 3.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CM. X10E+6	F/W SEC/CL. X10E+6	F/W 1/SEC.	DISTANCE METERS
40.0	2	4.715E-09	1.835E-06	600
43.0	1	3.144E-09	1.226E-06	600
46.0	6	1.100E-08	4.291E-06	600
49.0	167	2.688E-07	1.080E-06	600
52.0	1140	1.837E-06	7.166E-06	600
55.0	1431	2.290E-06	8.931E-06	600
58.0	1355	2.195E-06	8.459E-06	600
61.0	1017	1.628E-06	6.351E-06	600
64.0	1370	2.193E-06	8.551E-06	600
67.0	1052	1.603E-06	6.565E-06	600
70.0	1004	1.610E-06	6.295E-06	600
73.0	647	1.036E-06	4.040E-06	600
76.0	271	4.338E-07	1.692E-06	600
79.0	731	1.171E-06	4.567E-06	600
82.0	474	7.592E-07	2.961E-06	600
85.0	963	1.542E-06	6.013E-06	600
88.0	1208	1.908E-06	7.791E-06	600
91.0	1086	1.735E-06	6.767E-06	600
94.0	742	1.108E-06	4.630E-06	600
97.0	651	1.002E-06	4.060E-06	600
100.0	622	9.965E-07	3.856E-06	600
103.0	266	4.260E-07	1.661E-06	600

CROSSWIND INTEGRATED= 1.090E-03 SEC/80.M
1/M

TEST U-10 OCTOBER 3, 1962 0930 TO 0955 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 3.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CM. X10E+6	F/W SEC/CL. X10E+6	F/W 1/SEC.	DISTANCE METERS
50.0	1	1.753E-09	6.838E-09	1200
52.0	23	3.770E-08	1.470E-07	1200
54.0	34	5.523E-08	2.154E-07	1200
56.0	78	1.262E-07	4.923E-07	1200
58.0	274	4.071E-07	1.708E-06	1200
60.0	451	7.224E-07	2.817E-06	1200
62.0	322	5.155E-07	2.010E-06	1200
64.0	264	4.296E-07	1.675E-06	1200
66.0	240	4.559E-07	1.778E-06	1200
68.0	245	3.927E-07	1.532E-06	1200
70.0	244	3.910E-07	1.525E-06	1200
72.0	249	3.989E-07	1.556E-06	1200
74.0	106	1.701E-07	6.633E-07	1200
76.0	356	5.698E-07	2.222E-06	1200
78.0	263	4.217E-07	1.645E-06	1200
80.0	298	4.778E-07	1.863E-06	1200
82.0	159	2.560E-07	9.984E-07	1200
84.0	101	1.631E-07	6.359E-07	1200
86.0	98	1.578E-07	6.154E-07	1200
88.0	31	4.927E-08	1.949E-07	1200
90.0	28	4.559E-08	1.778E-07	1200
92.0	22	3.594E-08	1.402E-07	1200
94.0	78	1.254E-07	4.885E-07	1200
96.0	179	2.867E-07	1.118E-06	1200
98.0	46	7.364E-08	2.872E-07	1200
100.0	0	0.000E+00	0.000E+00	1200
102.0	2	3.507E-08	1.368E-08	1200

CROSSWIND INTEGRATED= 2.853E-04 SEC/80.M
1/M

TEST U-10 OCTOBER 3, 1962 0930 TO 0955 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 3.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CM. X10E+6	F/W SEC/CL. X10E+6	F/W 1/SEC.	DISTANCE METERS
48.0	0	8.767E-10	3.419E-09	1600
50.0	0	0.000E+00	0.000E+00	1600
52.0	4	7.013E-09	2.735E-08	1600
54.0	16	2.630E-08	1.026E-07	1600
56.0	14	2.367E-08	9.231E-08	1600
58.0	24	3.857E-08	1.504E-07	1600
60.0	26	4.296E-08	1.675E-07	1600
62.0	30	4.949E-08	1.915E-07	1600
64.0	71	1.108E-07	4.479E-07	1600
66.0	162	2.709E-07	1.056E-06	1600
68.0	115	1.850E-07	7.214E-07	1600
70.0	120	3.002E-07	1.186E-06	1600
72.0	133	2.130E-07	8.308E-07	1600
74.0	217	3.480E-07	1.357E-06	1600
76.0	50	9.868E-08	3.893E-07	1600
78.0	44	7.189E-08	2.804E-07	1600
80.0	33	5.348E-08	2.086E-07	1600
82.0	37	5.961E-08	2.325E-07	1600
84.0	8	1.403E-08	5.470E-08	1600
86.0	19	3.156E-08	1.231E-07	1600
88.0	81	1.297E-07	5.060E-07	1600
90.0	30	4.296E-08	1.675E-07	1600
92.0	10	3.068E-08	1.197E-07	1600
94.0	7	1.222E-08	4.787E-08	1600
96.0	0	8.767E-10	3.419E-09	1600
98.0	0	0.000E+00	0.000E+00	1600
100.0	1	2.630E-09	1.026E-08	1600

CROSSWIND INTEGRATED= 1.215E-04 SEC/80.M
1/M

UNSTABLE SERIES EXPERIMENT: 11 (U-11)
GROUND LEVEL SAMPLING 100-1600 M ARCS.

TEST U-11 OCTOBER 3, 1962 1056 TO 1156 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M W= 2.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CM X10F+6	F/W SEC/CM X10F+6	F/W 1/SEC	DISTANCE METERS
20.0	26	1.441E-08	4.653E-08	100
24.0	1353	9.500E-07	2.375E-06	100
28.0	1871	1.313E-06	3.283E-06	100
32.0	1912	1.302E-06	3.356E-06	100
36.0	1616	1.135E-06	2.637E-06	100
40.0	916	6.432E-07	1.608E-06	100
44.0	1197	8.004E-07	2.101E-06	100
48.0	1534	1.090E-06	2.709E-06	100
52.0	817	5.736E-07	1.434E-06	100
56.0	909	6.377E-07	1.590E-06	100
60.0	1481	1.000E-06	2.599E-06	100
64.0	1455	1.029E-06	2.571E-06	100
68.0	2534	1.779E-06	4.446E-06	100
72.0	3864	2.712E-06	6.780E-06	100
76.0	3896	2.738E-06	6.835E-06	100
80.0	5680	3.972E-06	9.930E-06	100
84.0	4400	3.088E-06	7.710E-06	100
88.0	3708	2.602E-06	6.506E-06	100
92.0	213	1.094E-07	3.740E-07	100
96.0	02	2.964E-08	7.411E-08	100
100.0	18	1.310E-08	3.275E-08	100
104.0	9	6.894E-09	1.723E-08	100

CROSSWIND INTEGRATED= 1.933E-04 SEC/SQ.M
1/M

TEST U-11 OCTOBER 3, 1962 1056 TO 1156 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC SAMPLER HT 1.5M W= 2.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CM X10F+6	F/W SEC/CM X10F+6	F/W 1/SEC	DISTANCE METERS
22.0	18	1.310E-08	3.275E-08	200
26.0	2	2.085E-09	5.170E-09	200
30.0	505	6.914E-07	1.729E-06	200
34.0	2794	1.961E-06	4.903E-06	200
38.0	3814	2.677E-06	6.692E-06	200
42.0	4151	2.803E-06	7.107E-06	200
46.0	3730	2.618E-06	6.584E-06	200
50.0	4650	3.264E-06	8.159E-06	200
54.0	6536	4.657E-06	1.164E-05	200
58.0	9598	6.720E-06	1.682E-05	200
62.0	8720	6.120E-06	1.530E-05	200
66.0	9009	6.319E-06	1.580E-05	200
70.0	9126	6.404E-06	1.601E-05	200
74.0	10412	7.307E-06	1.827E-05	200
78.0	7273	5.100E-06	1.276E-05	200
82.0	8171	5.734E-06	1.434E-05	200
86.0	6515	4.572E-06	1.143E-05	200
90.0	4535	4.586E-06	1.147E-05	200
94.0	7015	4.927E-06	1.231E-05	200
98.0	4102	2.907E-06	7.268E-06	200
102.0	4888	3.403E-06	8.507E-06	200
106.0	3129	2.196E-06	5.491E-06	200

CROSSWIND INTEGRATED= 1.147E-03 SEC/SQ.M
1/M

TEST U-11 OCTOBER 3, 1962 1056 TO 1156 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M W= 2.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CM X10F+6	F/W SEC/CM X10F+6	F/W 1/SEC	DISTANCE METERS
12.0	8	6.200E-09	1.551E-08	300
16.0	59	3.516E-08	8.790E-08	300
20.0	81	5.722E-08	1.430E-07	300
24.0	55	3.861E-08	9.651E-08	300
28.0	101	7.101E-08	1.775E-07	300
32.0	278	1.958E-07	4.895E-07	300
36.0	724	5.088E-07	1.272E-06	300
40.0	1572	1.100E-06	2.759E-06	300
44.0	2528	1.774E-06	4.436E-06	300
48.0	3273	2.297E-06	5.743E-06	300
52.0	3605	2.558E-06	6.396E-06	300
56.0	6350	4.057E-06	1.010E-05	300
60.0	9509	6.701E-06	1.675E-05	300
64.0	9582	6.725E-06	1.681E-05	300
68.0	10718	7.522E-06	1.880E-05	300
72.0	10172	7.139E-06	1.785E-05	300
76.0	8701	6.107E-06	1.527E-05	300
80.0	4931	3.061E-06	7.652E-06	300
84.0	11067	7.763E-06	1.941E-05	300
88.0	10900	7.652E-06	1.913E-05	300
92.0	13356	9.373E-06	2.343E-05	300
96.0	10248	9.999E-06	2.500E-05	300
100.0	8070	5.610E-06	1.404E-05	300
104.0	6141	4.310E-06	1.077E-05	300

CROSSWIND INTEGRATED= 1.999E-03 SEC/SQ.M
1/M

TEST U-11 OCTOBER 3, 1962 1056 TO 1156 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M W= 2.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CM X10F+6	F/W SEC/CM X10F+6	F/W 1/SEC	DISTANCE METERS
18.0	2	2.085E-09	5.170E-09	400
22.0	21	1.517E-08	3.792E-08	400
26.0	25	1.702E-08	4.281E-08	400
30.0	94	6.618E-08	1.655E-07	400
34.0	276	1.405E-07	3.619E-07	400
38.0	1082	7.597E-07	1.899E-06	400
42.0	1871	1.313E-06	3.283E-06	400
46.0	2139	1.501E-06	3.754E-06	400
50.0	963	6.763E-07	1.691E-06	400
54.0	3012	2.395E-06	5.987E-06	400
58.0	4196	2.945E-06	7.363E-06	400
62.0	6633	4.655E-06	1.164E-05	400
66.0	10517	7.380E-06	1.805E-05	400
70.0	9104	6.369E-06	1.597E-05	400
74.0	10219	7.172E-06	1.793E-05	400
78.0	12941	9.082E-06	2.270E-05	400
82.0	2189	1.517E-06	3.842E-06	400
86.0	4498	5.964E-06	1.491E-05	400
90.0	4576	4.615E-06	1.154E-05	400
94.0	5727	4.019E-06	1.005E-05	400
98.0	6059	4.252E-06	1.063E-05	400
102.0	5983	4.199E-06	1.050E-05	400
106.0	2169	1.522E-06	3.805E-06	400

CROSSWIND INTEGRATED= 1.972E-03 SEC/SQ.M
1/M

TEST U-11 OCTOBER 3, 1962 1056 TO 1156 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/C SEC/CU.M	EU/C 1/SEC.M	DISTANCE METERS
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16.0	3	2.759E-09	6.890E-09	500
20.0	1	1.373E-09	3.447E-09	500
24.0	9	6.894E-09	1.723E-08	500
28.0	71	5.032E-08	1.258E-07	500
32.0	98	6.200E-08	1.551E-07	500
36.0	871	6.253E-07	1.563E-06	500
40.0	975	6.806E-07	1.711E-06	500
44.0	1503	1.055E-06	2.637E-06	500
48.0	1010	7.060E-07	1.773E-06	500
52.0	823	4.273E-07	1.568E-06	500
56.0	1987	1.395E-06	3.487E-06	500
60.0	3924	2.764E-06	6.885E-06	500
64.0	5974	4.144E-06	1.036E-05	500
68.0	3374	2.368E-06	5.920E-06	500
72.0	9933	6.971E-06	1.743E-05	500
76.0	9335	6.551E-06	1.638E-05	500
80.0	7185	5.043E-06	1.261E-05	500
84.0	9334	6.590E-06	1.638E-05	500
88.0	4396	3.081E-06	7.702E-06	500
92.0	2609	1.831E-06	4.577E-06	500
96.0	3840	2.605E-06	6.737E-06	500
100.0	4833	3.392E-06	8.479E-06	500
104.0	1383	9.706E-07	2.427E-06	500

CROSSWIND INTEGRATED= 1.800E-03
SEC/SEC.M 1/M

TEST U-11 OCTOBER 3, 1962 1056 TO 1156 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/C SEC/CU.M	EU/C 1/SEC.M	DISTANCE METERS
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18.0	2	2.068E-09	5.170E-09	600
22.0	28	1.999E-08	4.994E-08	600
26.0	12	8.962E-09	2.240E-08	600
30.0	34	2.413E-08	6.032E-08	600
34.0	124	4.755E-08	2.189E-07	600
38.0	525	1.608E-07	9.220E-07	600
42.0	543	3.812E-07	9.531E-07	600
46.0	405	6.356E-07	1.589E-06	600
50.0	1014	7.121E-07	1.780E-06	600
54.0	612	4.302E-07	1.075E-06	600
58.0	1437	1.359E-06	3.399E-06	600
62.0	4201	2.948E-06	7.371E-06	600
66.0	4613	3.237E-06	8.093E-06	600
70.0	4008	2.876E-06	7.190E-06	600
74.0	5335	3.744E-06	9.360E-06	600
78.0	5957	4.180E-06	1.045E-05	600
82.0	7627	5.352E-06	1.338E-05	600
86.0	6422	4.507E-06	1.127E-05	600
90.0	1994	1.309E-06	3.499E-06	600
94.0	2995	2.102E-06	5.255E-06	600
98.0	2477	1.739E-06	4.347E-06	600
102.0	2104	1.505E-06	3.762E-06	600
106.0	425	2.985E-07	7.463E-07	600

CROSSWIND INTEGRATED= 1.588E-03
SEC/SEC.M 1/M

TEST U-11 OCTOBER 3, 1962 1056 TO 1156 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/C SEC/CU.M	EU/C 1/SEC.M	DISTANCE METERS
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22.0	18	1.310E-08	3.275E-08	800
26.0	9	6.894E-09	1.723E-08	800
28.0	33	2.344E-08	5.860E-08	800
31.0	69	4.805E-08	1.220E-07	800
34.0	55	3.929E-08	9.824E-08	800
37.0	117	8.273E-08	2.068E-07	800
40.0	207	1.455E-07	3.636E-07	800
43.0	257	1.806E-07	4.515E-07	800
46.0	443	3.109E-07	7.773E-07	800
49.0	251	1.765E-07	4.412E-07	800
52.0	308	2.165E-07	5.412E-07	800
55.0	252	1.772E-07	4.429E-07	800
58.0	812	5.701E-07	1.425E-06	800
61.0	1029	7.225E-07	1.806E-06	800
64.0	1938	1.360E-06	3.400E-06	800
67.0	1095	2.172E-06	5.431E-06	800
70.0	2203	1.603E-06	4.007E-06	800
73.0	1559	1.095E-06	2.737E-06	800
76.0	2055	1.442E-06	3.605E-06	800
79.0	3552	2.453E-06	6.232E-06	800
82.0	2899	2.035E-06	5.088E-06	800
85.0	2368	1.662E-06	4.155E-06	800
88.0	1346	9.451E-07	2.363E-06	800
91.0	2454	2.074E-06	5.184E-06	800
94.0	2286	1.605E-06	4.012E-06	800
97.0	2108	1.479E-06	3.699E-06	800
100.0	1508	1.059E-06	2.647E-06	800
103.0	1233	8.659E-07	2.165E-06	800
106.0	1041	7.307E-07	1.827E-06	800
109.0	628	5.811E-07	1.453E-06	800
112.0	36	2.551E-08	6.377E-08	800

CROSSWIND INTEGRATED= 1.087E-03
SEC/SEC.M 1/M

TEST H-11 OCTOBER 3, 1962 1056 TO 1156 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200M APC SAMPLER HT 1.5M U= 2.5 M/SFC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CULM X10E+6	E/C SEC/CULM	E/C 1/SEC	DISTANCE METERS
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28.0	4	2.826E-09	7.065E-09	1200
30.0	14	1.373E-08	3.432E-08	1200
32.0	10	1.292E-08	3.230E-08	1200
34.0	8	5.652E-09	1.413E-08	1200
36.0	9	6.863E-09	1.716E-08	1200
38.0	7	5.208E-09	1.312E-08	1200
40.0	20	2.019E-08	5.047E-08	1200
42.0	16	1.171E-08	2.927E-08	1200
44.0	35	2.503E-08	6.258E-08	1200
46.0	20	2.019E-08	5.047E-08	1200
48.0	46	3.270E-08	8.176E-08	1200
50.0	53	3.755E-08	9.387E-08	1200
52.0	62	4.808E-08	1.201E-07	1200
54.0	87	3.351E-08	8.377E-08	1200
56.0	72	5.087E-08	1.272E-07	1200
58.0	178	1.252E-07	3.129E-07	1200
60.0	212	1.490E-07	3.724E-07	1200
62.0	282	1.982E-07	4.956E-07	1200
64.0	365	2.964E-07	7.409E-07	1200
66.0	491	3.452E-07	8.630E-07	1200
68.0	431	3.028E-07	7.570E-07	1200
70.0	701	4.921E-07	1.230E-06	1200
72.0	617	4.336E-07	1.084E-06	1200
74.0	303	2.132E-07	5.329E-07	1200
76.0	521	3.662E-07	9.155E-07	1200
78.0	239	1.684E-07	4.209E-07	1200
80.0	442	3.109E-07	7.772E-07	1200
82.0	524	3.714E-07	9.286E-07	1200
84.0	660	4.635E-07	1.159E-06	1200
86.0	479	3.367E-07	8.418E-07	1200
88.0	536	3.779E-07	9.447E-07	1200
90.0	285	2.002E-07	5.006E-07	1200
92.0	238	1.671E-07	4.179E-07	1200
94.0	498	3.500E-07	8.751E-07	1200
96.0	198	1.393E-07	3.482E-07	1200
98.0	312	2.192E-07	5.481E-07	1200
100.0	316	2.221E-07	5.551E-07	1200
102.0	502	1.529E-07	3.821E-07	1200

CROSSWIND INTEGRATE= 2.845E-04
SEC/SEC.M 1/M

TEST H-11 OCTOBER 3, 1962 1056 TO 1156 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M APC SAMPLER HT 1.5M U= 2.5 M/SFC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CULM X10E+6	E/C SEC/CULM	E/C 1/SEC	DISTANCE METERS
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38.0	2	1.615E-09	4.037E-09	1600
36.0	5	4.037E-09	1.009E-08	1600
38.0	17	1.252E-08	3.129E-08	1600
40.0	12	8.478E-09	2.120E-08	1600
42.0	19	1.373E-08	3.432E-08	1600
E 44.0	23	1.655E-08	4.138E-08	1600
E 46.0	27	1.898E-08	4.744E-08	1600
48.0	30	2.140E-08	5.349E-08	1600
50.0	93	6.581E-08	1.645E-07	1600
52.0	104	7.308E-08	1.827E-07	1600
54.0	104	7.590E-08	1.898E-07	1600
56.0	76	5.370E-08	1.342E-07	1600
58.0	193	1.078E-07	2.695E-07	1600
60.0	159	1.122E-07	2.806E-07	1600
62.0	204	1.437E-07	3.593E-07	1600
64.0	246	1.732E-07	4.330E-07	1600
66.0	388	2.729E-07	6.823E-07	1600
68.0	300	2.107E-07	5.269E-07	1600
70.0	316	2.225E-07	5.561E-07	1600
72.0	165	1.159E-07	2.897E-07	1600
74.0	264	1.857E-07	4.643E-07	1600
76.0	228	1.607E-07	4.017E-07	1600
78.0	202	1.421E-07	3.553E-07	1600
80.0	300	2.112E-07	5.279E-07	1600
82.0	219	1.542E-07	3.856E-07	1600
84.0	184	1.206E-07	3.040E-07	1600
86.0	386	2.713E-07	6.783E-07	1600
88.0	341	2.394E-07	5.985E-07	1600
90.0	134	9.847E-08	2.362E-07	1600
92.0	165	1.163E-07	2.907E-07	1600
94.0	167	1.175E-07	2.937E-07	1600
96.0	122	8.509E-08	2.150E-07	1600
98.0	178	1.195E-07	2.988E-07	1600
100.0	382	2.685E-07	6.712E-07	1600
102.0	224	2.099E-07	5.248E-07	1600

CROSSWIND INTEGRATE= 2.363E-04
SEC/SEC.M 1/M

UNSTABLE SERIES EXPERIMENT: 12 (U-12)
GROUND LEVEL SAMPLING 100-1600 M ARCS. FOR EASE IN STATISTICAL
ANALYSIS, ALL SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES
FROM THEIR ACTUAL POSITIONS.

TEST U-12 OCTOBER 3, 1962 1301 TO 1302 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
100M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10 ⁴ ±6	F/Z SEC/CM ²	F/U 1/SEC	DISTANCE METERS
10.0	45	5.164E-08	1.756E-07	100
14.0	180	2.066E-07	7.024E-07	100
18.0	810	2.262E-07	3.189E-06	100
22.0	1224	1.399E-06	4.756E-06	100
26.0	2022	2.312E-06	7.440E-06	100
30.0	4406	4.682E-06	1.592E-05	100
34.0	3608	4.124E-06	1.402E-05	100
38.0	5703	6.518E-06	2.211E-05	100
42.0	7001	8.044E-06	2.736E-05	100
46.0	9627	1.123E-05	3.819E-05	100
50.0	10351	1.183E-05	4.022E-05	100
54.0	10208	1.163E-05	3.967E-05	100
58.0	9314	9.503E-06	3.231E-05	100
62.0	7144	8.170E-06	2.778E-05	100
66.0	5533	6.324E-06	2.150E-05	100
70.0	7636	8.728E-06	2.967E-05	100
74.0	7344	8.444E-06	2.871E-05	100
78.0	9322	9.027E-06	3.170E-05	100
82.0	3700	4.275E-06	1.454E-05	100
86.0	6281	7.179E-06	2.403E-05	100
90.0	6117	6.991E-06	2.377E-05	100
94.0	1263	4.873E-06	1.657E-05	100
98.0	4597	5.283E-06	1.783E-05	100
102.0	4463	5.102E-06	1.735E-05	100
106.0	4084	4.668E-06	1.527E-05	100
110.0	3716	3.676E-06	1.250E-05	100
114.0	3376	3.459E-06	1.112E-05	100
118.0	2027	2.317E-06	7.879E-06	100
122.0	6089	5.817E-06	1.978E-05	100
126.0	4338	4.958E-06	1.686E-05	100
130.0	2633	3.010E-06	1.023E-05	100
134.0	1500	1.714E-06	5.829E-06	100

CROSS-ROAD INTERFERENCE= 1.207E-03 4.103E-03
SEC/CM² 1/M

TEST U-12 OCTOBER 3, 1962 1301 TO 1302 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10 ⁴ ±6	F/Z SEC/CM ²	F/U 1/SEC	DISTANCE METERS
12.0	825	9.431E-07	3.206E-06	200
16.0	1424	1.628E-06	5.535E-06	200
20.0	4008	4.627E-06	1.573E-05	200
24.0	6208	7.095E-06	2.412E-05	200
28.0	4735	5.413E-06	1.840E-05	200
32.0	6927	7.997E-06	2.719E-05	200
36.0	4554	9.779E-06	3.325E-05	200
40.0	8206	9.379E-06	3.189E-05	200
P 40.0	150	1.718E-07	5.840E-07	200
P 48.0	148	1.650E-07	5.611E-07	200
P 52.0	85	9.767E-08	3.321E-07	200
P 56.0	37	5.389E-08	1.832E-07	200
60.0	7725	8.820E-06	3.002E-05	200
64.0	12182	1.392E-05	4.734E-05	200
68.0	7206	9.236E-06	2.800E-05	200
72.0	9444	1.042E-05	3.678E-05	200
76.0	9444	1.102E-05	3.748E-05	200
80.0	11657	1.332E-05	4.530E-05	200
84.0	11231	1.284E-05	4.344E-05	200
88.0	9202	1.132E-05	3.808E-05	200
92.0	6381	7.293E-06	2.480E-05	200
96.0	5876	6.716E-06	2.283E-05	200
100.0	3438	3.929E-06	1.336E-05	200
104.0	2659	3.039E-06	1.033E-05	200
108.0	4271	4.882E-06	1.660E-05	200
112.0	2851	3.259E-06	1.108E-05	200
116.0	1519	1.737E-06	5.905E-06	200
120.0	474	5.423E-07	1.840E-06	200
124.0	1151	1.316E-06	4.474E-06	200
128.0	233	2.672E-07	9.085E-07	200
132.0	153	1.751E-07	5.955E-07	200
136.0	161	1.841E-07	6.260E-07	200

CROSS-ROAD INTERFERENCE= 2.389E-03 4.111E-03
SEC/CM² 1/M

TEST II-12 OCTOBER 3, 1962 1301 TO 1302 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 300M ARC SAMPLER AT 1.5M U=3.4 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10 ¹⁴	F/Z SEC/CU.M	F/Z 1/SEC	DISTANCE METERS
10.0	695	7.992E-07	2.714E-06	300
14.0	798	9.015E-07	3.065E-06	300
18.0	2006	2.294E-06	7.799E-06	300
22.0	2970	3.325E-06	1.113E-05	300
26.0	1535	2.027E-06	7.130E-06	300
30.0	1341	1.534E-06	5.214E-06	300
34.0	2327	2.660E-06	9.043E-06	300
38.0	7227	8.341E-06	2.876E-05	300
42.0	7716	8.919E-06	2.998E-05	300
46.0	6004	6.862E-06	2.333E-05	300
50.0	3347	3.826E-06	1.301E-05	300
54.0	3810	4.359E-06	1.482E-05	300
58.0	4062	4.642E-06	1.578E-05	300
62.0	3862	4.414E-06	1.501E-05	300
66.0	2689	3.074E-06	1.045E-05	300
70.0	9440	9.075E-06	1.725E-05	300
74.0	5495	6.280E-06	2.135E-05	300
78.0	7708	8.810E-06	2.995E-05	300
82.0	7846	8.967E-06	3.049E-05	300
86.0	4519	7.051E-06	2.533E-05	300
90.0	1511	5.197E-06	1.753E-05	300
94.0	4318	7.935E-06	1.678E-05	300
98.0	1672	1.912E-06	6.501E-06	300
102.0	1357	1.585E-06	5.390E-06	300
106.0	2408	3.324E-06	1.130E-05	300
110.0	2256	2.579E-06	8.768E-06	300
114.0	555	6.467E-07	2.199E-06	300
118.0	77	8.869E-08	3.016E-07	300
122.0	914	1.045E-06	3.554E-06	300
126.0	526	6.018E-07	2.046E-06	300
130.0	723	9.263E-07	2.809E-06	300
134.0	539	6.164E-07	2.096E-06	300

CROSS-ROAD INTEGRATED= 2.448E-03 8.392E-03
 SEC/SEC 1/M

TEST II-12 OCTOBER 3, 1962 1301 TO 1302 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 300M ARC SAMPLER AT 1.5M U=3.4 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10 ¹⁴	F/Z SEC/CU.M	F/Z 1/SEC	DISTANCE METERS
X 12.0	27	3.140E-08	1.069E-07	400
X 16.0	33	3.817E-08	1.298E-07	400
X 20.0	33	3.817E-08	1.298E-07	400
X 24.0	170	1.145E-07	3.894E-07	400
28.0	2421	2.847E-06	9.680E-06	400
32.0	2549	2.913E-06	9.906E-06	400
36.0	1813	2.073E-06	7.047E-06	400
40.0	1701	1.287E-06	4.201E-06	400
44.0	3519	4.023E-06	1.368E-05	400
48.0	4333	4.952E-06	1.684E-05	400
52.0	7737	8.129E-06	1.060E-05	400
56.0	3137	3.586E-06	1.219E-05	400
60.0	3241	3.705E-06	1.260E-05	400
64.0	3219	3.679E-06	1.251E-05	400
68.0	1924	2.199E-06	7.478E-06	400
72.0	3616	4.133E-06	1.405E-05	400
76.0	4802	5.489E-06	1.866E-05	400
80.0	6258	7.153E-06	2.432E-05	400
84.0	3421	3.910E-06	1.330E-05	400
88.0	4020	5.052E-06	1.718E-05	400
92.0	2602	2.974E-06	1.011E-05	400
96.0	1465	1.675E-06	5.695E-06	400
100.0	1306	1.403E-06	5.077E-06	400
104.0	879	1.005E-06	3.416E-06	400
108.0	1942	2.220E-06	7.547E-06	400
112.0	873	9.981E-07	3.393E-06	400
116.0	317	3.626E-07	1.233E-06	400
120.0	941	1.076E-06	3.657E-06	400
124.0	1201	1.373E-06	4.668E-06	400
128.0	894	1.023E-06	3.477E-06	400
132.0	1116	1.277E-06	4.340E-06	400
136.0	1191	1.351E-06	4.592E-06	400

CROSS-ROAD INTEGRATED= 2.154E-03 7.324E-03
 SEC/SEC 1/M

TEST U-12 OCTOBER 3, 1962 1301 TO 1302 PST
 21°C SULFIDE RELEASE FROM ELEVATION OF 56M
 600M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE G-SEC/CM ² X10 ⁴	F/U SEC/CM ² X10 ⁴	F/U 1/SEC	DISTANCE METERS
10.0	10	0.603E-08	1.565E-07	500
10.0	132	1.628E-07	5.535E-07	500
10.0	1012	1.158E-06	3.036E-06	500
22.0	7030	2.910E-06	0.650E-06	500
26.0	2384	2.726E-06	0.268E-06	500
30.0	1421	1.625E-06	5.523E-06	500
34.0	1428	1.712E-06	5.821E-06	500
38.0	598	6.817E-07	2.325E-06	500
42.0	731	8.364E-07	2.824E-06	500
46.0	1039	1.198E-06	4.030E-06	500
50.0	1193	1.364E-06	8.638E-06	500
54.0	1744	1.998E-06	6.779E-06	500
58.0	864	0.880E-07	3.359E-06	500
62.0	2203	2.622E-06	8.913E-06	500
66.0	1701	2.088E-06	6.063E-06	500
70.0	1600	1.829E-06	6.219E-06	500
74.0	1784	2.080E-06	6.936E-06	500
78.0	2239	2.568E-06	8.703E-06	500
82.0	3064	3.503E-06	1.191E-05	500
86.0	3199	3.657E-06	1.203E-05	500
90.0	2223	2.501E-06	8.630E-06	500
94.0	1095	1.252E-06	0.256E-06	500
98.0	405	5.658E-07	1.924E-06	500
102.0	757	8.656E-07	2.943E-06	500
106.0	561	6.422E-07	2.183E-06	500
110.0	410	4.693E-07	1.596E-06	500
114.0	313	3.581E-07	1.218E-06	500
118.0	473	5.411E-07	1.800E-06	500
122.0	671	7.679E-07	2.611E-06	500
126.0	826	1.025E-06	3.485E-06	500
130.0	1215	1.380E-06	4.722E-06	500
134.0	571	6.538E-07	2.222E-06	500

CROSS SECTION INTEGRATED= 1.628E-03 SEC/CM²
 5.536E-03 1/M

TEST U-12 OCTOBER 3, 1962 1301 TO 1302 PST
 21°C SULFIDE RELEASE FROM ELEVATION OF 56M
 600M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE G-SEC/CM ² X10 ⁴	F/U SEC/CM ² X10 ⁴	F/U 1/SEC	DISTANCE METERS
12.0	32	3.705E-08	1.260E-07	400
16.0	55	6.297E-08	2.138E-07	400
20.0	302	3.458E-07	1.176E-06	600
24.0	748	8.554E-07	2.909E-06	600
28.0	2213	2.529E-06	8.690E-06	600
32.0	1628	1.861E-06	6.329E-06	600
36.0	1219	1.408E-06	4.855E-06	600
40.0	754	8.622E-07	2.932E-06	600
44.0	477	5.456E-07	1.855E-06	600
48.0	590	6.175E-07	2.099E-06	600
52.0	1438	1.635E-06	5.558E-06	600
56.0	835	9.503E-07	3.205E-06	600
60.0	961	1.099E-06	3.737E-06	600
64.0	1604	1.879E-06	6.390E-06	600
68.0	1008	1.153E-06	3.727E-06	600
72.0	1019	1.199E-06	4.077E-06	600
76.0	94	1.078E-07	3.664E-07	600
80.0	205	2.346E-07	7.978E-07	600
84.0	160	1.830E-07	6.222E-07	600
88.0	20	2.358E-08	8.016E-08	600
92.0	1167	1.334E-06	4.535E-06	600
96.0	667	7.623E-07	2.502E-06	600
100.0	507	5.808E-07	1.973E-06	600
104.0	236	2.706E-07	9.199E-07	600
108.0	352	4.038E-07	1.370E-06	600
112.0	182	2.088E-07	7.100E-07	600
116.0	266	3.043E-07	1.034E-06	600
120.0	657	7.511E-07	2.554E-06	600
124.0	556	6.366E-07	2.164E-06	600
128.0	1079	1.230E-06	4.195E-06	600
132.0	697	7.399E-07	2.516E-06	600
136.0	194	1.650E-07	5.611E-07	600

CROSS SECTION INTEGRATED= 1.047E-03 SEC/CM²
 3.561E-03 1/M

TEST D-12 OCTOBER 3, 1962 1301 TO 1302 PST
 71% SILENCE RELEASE FROM ELEVATION OF 56M
 ROOM AEC SAMPLER H1 1.5M U= 3.4 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE G-SEC/CM. ² X10 ⁴	F/D SEC/CM. ²	F/D 1/SEC. ²	DISTANCE METERS
10.0	12	1.060E-08	0.062E-08	800
13.0	11	1.307E-08	0.581E-08	800
16.0	56	6.512E-08	2.218E-07	800
19.0	44	5.052E-08	1.718E-07	800
22.0	180	2.066E-07	7.020E-07	800
25.0	125	2.231E-07	7.598E-07	800
28.0	157	1.796E-07	6.107E-07	800
31.0	277	3.166E-07	1.076E-06	800
34.0	574	6.613E-07	2.208E-06	800
37.0	619	9.363E-07	3.184E-06	800
40.0	512	5.860E-07	1.993E-06	800
43.0	297	3.402E-07	1.157E-06	800
46.0	321	3.671E-07	1.208E-06	800
49.0	265	3.031E-07	1.031E-06	800
52.0	430	4.917E-07	1.672E-06	800
55.0	274	2.796E-07	0.905E-06	800
58.0	293	3.205E-07	1.103E-06	800
61.0	485	5.007E-07	1.733E-06	800
64.0	501	5.726E-07	1.947E-06	800
67.0	344	3.301E-07	1.300E-06	800
70.0	534	6.107E-07	2.077E-06	800
73.0	739	8.458E-07	2.974E-06	800
76.0	937	1.071E-06	3.602E-06	800
79.0	724	9.083E-07	3.088E-06	800
82.0	1093	1.238E-06	4.210E-06	800
85.0	922	1.134E-06	3.855E-06	800
88.0	474	5.423E-07	1.840E-06	800
91.0	564	6.456E-07	2.195E-06	800
94.0	665	7.601E-07	2.584E-06	800
97.0	268	3.065E-07	1.042E-06	800
100.0	124	2.223E-07	7.556E-07	800
103.0	254	2.908E-07	9.887E-07	800
106.0	76	1.100E-07	3.741E-07	800
109.0	121	1.302E-07	4.733E-07	800
112.0	117	1.347E-07	4.581E-07	800
115.0	372	4.255E-07	1.407E-06	800
118.0	204	2.325E-07	7.940E-07	800
121.0	247	3.054E-07	1.038E-06	800
124.0	222	2.537E-07	8.627E-07	800
127.0	393	4.379E-07	1.489E-06	800
130.0	129	2.279E-07	7.749E-07	800
133.0	106	1.235E-07	4.199E-07	800
136.0	221	2.526E-07	8.599E-07	800
139.0	257	2.901E-07	1.000E-06	800

CROSSHAIR DIRECTION: 7.466E-04 2.613E-03
 SEC/CM.² 1/2

TEST D-12 OCTOBER 3, 1962 1301 TO 1302 PST
 71% SILENCE RELEASE FROM ELEVATION OF 56M
 1200M AEC SAMPLER H1 1.5M U= 3.4 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE G-SEC/CM. ² X10 ⁴	F/D SEC/CM. ²	F/D 1/SEC. ²	DISTANCE METERS
30.0	22	1.052E-07	3.577E-07	1200
32.0	55	6.312E-08	2.146E-07	1200
34.0	55	6.312E-08	2.146E-07	1200
36.0	37	4.340E-08	1.475E-07	1200
38.0	35	3.707E-08	1.331E-07	1200
40.0	113	1.302E-07	4.426E-07	1200
42.0	23	1.072E-07	3.604E-07	1200
44.0	127	1.230E-07	4.180E-07	1200
46.0	67	7.759E-08	2.638E-07	1200
48.0	94	9.665E-08	3.208E-07	1200
50.0	71	8.219E-08	2.794E-07	1200
52.0	175	2.005E-07	6.818E-07	1200
54.0	95	9.731E-08	3.309E-07	1200
56.0	37	4.340E-08	1.475E-07	1200
58.0	74	9.008E-08	3.063E-07	1200
60.0	65	7.406E-08	2.508E-07	1200
62.0	123	1.410E-07	4.806E-07	1200
64.0	33	3.879E-08	1.310E-07	1200
66.0	149	1.240E-07	4.207E-07	1200
68.0	82	9.402E-08	3.197E-07	1200
70.0	129	2.715E-07	7.735E-07	1200
72.0	235	2.649E-07	9.103E-07	1200
74.0	332	3.860E-07	1.292E-06	1200
76.0	293	3.353E-07	1.140E-06	1200
78.0	169	1.940E-07	6.595E-07	1200
80.0	176	1.946E-07	6.617E-07	1200
82.0	214	2.452E-07	8.338E-07	1200
84.0	230	2.630E-07	8.902E-07	1200
86.0	235	2.649E-07	9.103E-07	1200
88.0	138	1.578E-07	5.365E-07	1200
90.0	41	4.734E-08	1.610E-07	1200
92.0	11	1.315E-08	4.471E-08	1200
94.0	11	1.315E-08	4.471E-08	1200
96.0	27	3.156E-08	1.073E-07	1200
98.0	25	2.803E-08	9.366E-08	1200
100.0	27	3.000E-08	1.005E-07	1200
102.0	28	3.222E-08	1.095E-07	1200
104.0	11	1.315E-08	4.471E-08	1200
106.0	23	2.630E-08	8.902E-08	1200
108.0	20	3.208E-08	1.110E-07	1200
110.0	42	3.708E-08	1.270E-07	1200
112.0	55	6.378E-08	2.161E-07	1200
114.0	144	1.650E-07	5.611E-07	1200
116.0	113	1.225E-07	4.404E-07	1200
118.0	103	1.144E-07	4.026E-07	1200
120.0	104	2.222E-07	7.556E-07	1200
122.0	73	4.350E-08	1.454E-07	1200
124.0	31	2.255E-08	7.340E-08	1200
126.0	102	1.177E-07	4.002E-07	1200
128.0	118	1.354E-07	4.605E-07	1200
130.0	89	1.026E-07	3.407E-07	1200
132.0	167	1.920E-07	6.528E-07	1200

CROSSHAIR DIRECTION: 2.585E-04 8.777E-04
 SEC/CM.² 1/2

TEST U-12 - COLLECTED 3. 1962 1301 TO 1302 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 1600M ABE - SAMPLER HI 1.5M - U= 3.0 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXP. SCHED. G-SEF/CH. X100%	FEI SEF/CH. X100%	FILO 1/280M	DISTANCE METERS
30.0	23	2.630E-08	0.942E-08	1600
32.0	24	3.222E-08	1.005E-07	1600
34.0	20	2.367E-08	0.000E-08	1600
36.0	35	0.011E-08	1.364E-07	1600
38.0	22	2.564E-08	0.710E-08	1600
40.0	18	2.100E-08	7.154E-08	1600
42.0	32	0.066E-08	1.654E-07	1600
44.0	05	5.100E-08	1.766E-07	1600
46.0	30	3.945E-08	1.341E-07	1600
48.0	27	3.000E-08	1.051E-07	1600
50.0	05	5.100E-08	1.766E-07	1600
52.0	71	0.153E-08	2.772E-07	1600
54.0	105	1.210E-07	0.113E-07	1600
56.0	119	1.368E-07	0.650E-07	1600
58.0	122	1.400E-07	0.762E-07	1600
60.0	03	0.600E-08	3.264E-07	1600
62.0	78	0.942E-08	3.040E-07	1600
64.0	74	0.500E-08	2.906E-07	1600
66.0	67	7.759E-08	2.638E-07	1600
68.0	115	1.322E-07	0.493E-07	1600
70.0	125	1.400E-07	0.096E-07	1600
72.0	165	1.887E-07	0.016E-07	1600
74.0	108	1.203E-07	0.225E-07	1600
76.0	53	0.115E-08	2.079E-07	1600
78.0	28	1.105E-07	3.756E-07	1600
80.0	05	0.731E-08	3.309E-07	1600
82.0	06	0.863E-08	3.353E-07	1600
84.0	78	0.942E-08	3.040E-07	1600
86.0	67	7.759E-08	2.638E-07	1600
88.0	02	5.655E-08	1.923E-07	1600
90.0	36	0.200E-08	1.431E-07	1600
92.0	21	2.409E-08	0.495E-08	1600
94.0	10	1.249E-08	0.247E-08	1600
96.0	7	0.540E-09	2.906E-08	1600
98.0	11	1.315E-08	0.471E-08	1600
100.0	3	3.945E-09	1.341E-08	1600
102.0	12	1.381E-08	0.695E-08	1600
104.0	2	1.118E-08	3.000E-08	1600
106.0	5	0.575E-09	2.236E-08	1600
108.0	12	1.381E-08	0.695E-08	1600
X 110.0	0	0.575E-09	2.236E-09	1600
X 112.0	4	0.863E-09	3.353E-08	1600
114.0	20	2.762E-08	0.389E-08	1600
116.0	58	0.707E-09	2.280E-07	1600
X 118.0	0	0.575E-09	2.236E-09	1600
X 120.0	0	0.000E+00	0.000E+00	1600
122.0	64	7.364E-08	2.504E-07	1600
124.0	72	0.205E-08	2.017E-07	1600
126.0	51	5.852E-08	1.090E-07	1600
128.0	57	0.575E-09	2.236E-07	1600
X 130.0	1	1.315E-09	0.471E-09	1600
X 132.0	5	0.575E-09	2.236E-08	1600

GROSS AVERAGE INTEGRATED = 1.605E-08 5.592E-08
 SEF/SEC 1/2M

UNSTABLE SERIES EXPERIMENT: 13 (U-13)
GROUND LEVEL SAMPLING 100-1600 M. ARCS. FOR EASE IN STATISTICAL
ANALYSIS, ALL SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES
FROM THEIR ACTUAL POSITIONS.

TEST U-13 OCTOBER 8, 1962 1045 TO 1145 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
JDD: BAC 56 MILE/H 1.5" H=12.9 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXP. TIME HOURS:MIN:SEC	FL/O SEC/100'	FL/O 1/50'	DISTANCE FEET/49
02.0	5	5.277E-06	4.807E-09	100
05.0	8	1.709E-09	6.126E-08	100
50.0	22	1.007E-08	2.382E-07	100
50.0	13	1.214E-08	1.566E-07	100
58.0	17	1.636E-08	2.110E-07	100
65.0	24	8.518E-08	5.054E-07	100
70.0	32	2.955E-08	3.012E-07	100
74.0	50	5.135E-08	7.011E-07	100
78.0	30	2.709E-08	3.540E-07	100
82.0	22	2.055E-06	2.587E-07	100
86.0	35	3.210E-08	4.152E-07	100
90.0	30	2.707E-08	3.608E-07	100
94.0	11	1.055E-09	1.361E-07	100
98.0	5	5.277E-09	6.807E-08	100
102.0	17	1.583E-08	2.042E-07	100
106.0	17	1.583E-08	2.042E-07	100
110.0	11	1.055E-08	1.361E-07	100
114.0	9	8.493E-09	1.084E-07	100
118.0	7	6.840E-09	8.495E-08	100
122.0	1	1.583E-09	2.042E-08	100
126.0	6	5.065E-09	7.488E-08	100
130.0	5	4.709E-09	6.126E-08	100
134.0	4	5.221E-09	5.446E-08	100

CROSS-IND. INTEGRATE = 2.041E-06 3.690E-05
SEC/50' 1/M

TEST U-13 OCTOBER 8, 1962 1045 TO 1145 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
JDD: BAC 56 MILE/H 1.5" H=12.9 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXP. TIME HOURS:MIN:SEC	FL/O SEC/100'	FL/O 1/50'	DISTANCE FEET/49
12.0	0	0.000E+00	0.000E+00	200
16.0	2	2.111E-09	2.723E-08	200
20.0	4	2.221E-09	5.446E-08	200
24.0	11	1.055E-08	1.361E-07	200
28.0	12	1.161E-08	1.498E-07	200
32.0	1	1.583E-09	2.042E-08	200
36.0	1	1.583E-09	2.042E-08	200
40.0	0	0.000E+00	0.000E+00	200
44.0	8	7.915E-09	1.021E-07	200
48.0	3	3.166E-09	4.084E-08	200
52.0	5	5.277E-09	6.807E-08	200
56.0	5	4.709E-09	6.126E-08	200
60.0	15	1.372E-08	1.770E-07	200
64.0	19	1.709E-08	2.246E-07	200
68.0	25	2.322E-08	2.995E-07	200
72.0	16	1.530E-08	1.974E-07	200
76.0	12	1.161E-08	1.498E-07	200
80.0	9	8.493E-09	1.084E-07	200
84.0	7	6.840E-09	8.495E-08	200
88.0	12	1.161E-08	1.498E-07	200
92.0	5	4.709E-09	6.126E-08	200
96.0	2	2.111E-09	2.723E-08	200
100.0	13	1.266E-08	1.634E-07	200
104.0	3	3.166E-09	4.084E-08	200
108.0	5	4.709E-09	6.126E-08	200
112.0	5	4.709E-09	6.126E-08	200
116.0	4	5.221E-09	5.446E-08	200
120.0	5	4.709E-09	6.126E-08	200
124.0	0	0.000E+00	0.000E+00	200
128.0	4	4.221E-09	5.446E-08	200
132.0	2	2.638E-09	3.404E-08	200
136.0	2	2.638E-09	3.404E-08	200

CROSS-IND. INTEGRATE = 2.903E-06 3.745E-05
SEC/50' 1/M

TEST U-13 DITCHED 8, 1942 1045 TO 1145 PST
 7100 SULFIDE RELEASE FROM ELEVATION OF 56M
 300M ARC SAMPLER HT 1.5M U=12.9 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SULFIDE/CM ² X10 ⁴ ±6	F/Z SEC/CM ²	F/U 1/SEC	DISTANCE METERS
10.0	1	1.583E+09	2.042E+08	300
14.0	0	0.000E+00	0.000E+00	300
18.0	0	0.000E+00	0.000E+00	300
22.0	0	0.000E+00	0.000E+00	300
26.0	0	0.000E+00	0.000E+00	300
30.0	0	0.000E+00	0.000E+00	300
34.0	0	0.000E+00	0.000E+00	300
38.0	1	1.583E+09	2.042E+08	300
42.0	0	0.000E+00	0.000E+00	300
46.0	0	0.000E+00	0.000E+00	300
50.0	0	0.000E+00	0.000E+00	300
54.0	0	0.000E+00	0.000E+00	300
58.0	35	3.272E+08	4.220E+07	300
62.0	23	2.164E+08	2.791E+07	300
66.0	22	2.045E+08	2.587E+07	300
70.0	28	2.546E+08	3.335E+07	300
74.0	15	1.425E+08	1.838E+07	300
78.0	2	2.111E+09	2.723E+08	300
82.0	17	1.583E+08	2.042E+07	300
86.0	2	2.111E+09	2.723E+08	300
90.0	0	0.000E+00	0.000E+00	300
94.0	0	0.000E+00	0.000E+00	300
98.0	11	1.055E+08	1.361E+07	300
102.0	5	5.277E+07	6.807E+06	300
106.0	0	0.000E+00	0.000E+00	300
110.0	9	8.403E+07	1.089E+07	300
114.0	1	1.055E+08	1.361E+07	300
118.0	1	1.055E+08	1.361E+07	300
122.0	3	3.166E+07	4.088E+06	300
126.0	1	1.055E+08	1.361E+07	300
130.0	11	1.055E+08	1.361E+07	300
134.0	2	2.164E+08	2.791E+07	300

CROSS-IND INTEGRATED= 5.471E+06 7.057E+05
 SEC/CM² 1/M

TEST U-13 DITCHED 8, 1942 1045 TO 1145 PST
 7100 SULFIDE RELEASE FROM ELEVATION OF 56M
 400M ARC SAMPLER HT 1.5M U=12.9 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SULFIDE/CM ² X10 ⁴ ±6	F/Z SEC/CM ²	F/U 1/SEC	DISTANCE METERS
24.0	3	3.166E+07	4.088E+06	400
28.0	0	0.000E+00	0.000E+00	400
32.0	0	0.000E+00	0.000E+00	400
36.0	0	0.000E+00	0.000E+00	400
40.0	1	1.055E+08	1.361E+07	400
44.0	0	0.000E+00	0.000E+00	400
48.0	23	2.164E+08	2.791E+07	400
52.0	265	2.417E+07	3.112E+06	400
56.0	410	3.736E+07	4.819E+06	400
60.0	378	3.620E+07	4.670E+06	400
64.0	378	3.410E+07	4.411E+06	400
68.0	181	1.652E+07	2.131E+06	400
72.0	175	1.599E+07	2.063E+06	400
76.0	106	2.657E+06	1.286E+06	400
80.0	9	9.971E+06	1.257E+07	400
84.0	21	1.952E+08	2.519E+07	400
88.0	23	2.111E+08	2.723E+07	400
92.0	5	5.277E+07	6.807E+06	400
96.0	6	6.332E+07	8.169E+06	400
100.0	3	3.166E+07	4.088E+06	400
104.0	0	0.000E+00	0.000E+00	400
108.0	0	0.000E+00	0.000E+00	400
112.0	1	1.055E+08	1.361E+07	400
116.0	6	6.805E+07	7.488E+06	400
120.0	3	3.166E+07	4.088E+06	400
124.0	0	0.000E+00	0.000E+00	400
128.0	0	0.000E+00	0.000E+00	400
132.0	2	2.164E+08	2.791E+07	400

CROSS-IND INTEGRATED= 5.205E+05 6.710E+04
 SEC/CM² 1/M

TEST U-13 DITCHED 8, 1942 1045 TO 1145 PST
 7100 SULFIDE RELEASE FROM ELEVATION OF 56M
 500M ARC SAMPLER HT 1.5M U=12.9 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SULFIDE/CM ² X10 ⁴ ±6	F/Z SEC/CM ²	F/U 1/SEC	DISTANCE METERS
30.0	2	2.164E+08	2.791E+07	500
34.0	0	0.000E+00	0.000E+00	500
38.0	1	1.055E+08	1.361E+07	500
42.0	0	0.000E+00	0.000E+00	500
46.0	12	1.108E+08	1.422E+07	500
50.0	206	1.200E+07	2.451E+06	500
54.0	339	3.551E+07	4.581E+06	500
58.0	519	1.287E+07	1.433E+06	500
62.0	1220	1.191E+06	1.524E+05	500
66.0	542	5.113E+07	6.596E+06	500
70.0	338	3.166E+07	4.088E+06	500
74.0	393	1.483E+07	1.893E+06	500
78.0	136	1.205E+07	1.600E+06	500
82.0	72	6.506E+06	8.570E+05	500
86.0	5	5.277E+07	6.807E+06	500
90.0	7	6.840E+07	8.840E+06	500
94.0	0	0.000E+00	0.000E+00	500
98.0	11	1.055E+08	1.361E+07	500
102.0	9	8.403E+07	1.089E+07	500
106.0	3	3.166E+07	4.088E+06	500
110.0	52	4.802E+08	6.194E+07	500
114.0	3	3.166E+07	4.088E+06	500
118.0	3	3.166E+07	4.088E+06	500
122.0	1	1.055E+08	1.361E+07	500
126.0	5	4.749E+07	6.126E+06	500

CROSS-IND INTEGRATED= 1.293E+04 1.669E+03
 SEC/CM² 1/M

TEST U-13 OCTOBER 9, 1962 1045 TO 1145 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLER HI 1.5M U=12.9 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPLOSIVE G-SEC/CH. X10 ⁴ KG	F/Z SEC/CH. M	F/Z 1/SEC. M	DISTANCE METERS
44.0	17	1.646E-08	2.110E-07	600
48.0	38	3.383E-08	4.093E-07	600
52.0	346	3.509E-07	4.527E-06	600
56.0	1329	1.299E-06	1.568E-05	600
60.0	1995	1.814E-06	2.340E-05	600
64.0	1213	1.193E-06	1.423E-05	600
68.0	707	6.707E-07	8.268E-06	600
72.0	560	5.092E-07	6.569E-06	600
76.0	200	1.826E-07	2.355E-06	600
80.0	93	7.546E-08	9.734E-07	600
84.0	17	1.587E-08	2.042E-07	600
88.0	5	4.749E-09	6.126E-08	600
92.0	4	4.201E-09	5.446E-08	600
96.0	11	1.055E-08	1.361E-07	600
100.0	4	4.221E-09	5.446E-08	600
104.0	2	2.638E-09	3.404E-08	600

CROSSHAIR INTEGRATED= 3.520E+04 SEC/90.M 3.251E+03 1/M

TEST U-13 OCTOBER 9, 1962 1045 TO 1145 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLER HI 1.5M U=12.9 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPLOSIVE G-SEC/CH. X10 ⁴ KG	F/Z SEC/CH. M	F/Z 1/SEC. M	DISTANCE METERS
43.0	13	1.055E-08	1.361E-07	600
46.0	31	2.849E-08	3.674E-07	600
49.0	170	1.551E-07	2.001E-06	600
52.0	570	5.210E-07	6.732E-06	600
55.0	1552	1.411E-06	1.820E-05	600
58.0	2711	2.065E-06	3.180E-05	600
61.0	3536	3.215E-06	4.188E-05	600
64.0	2454	2.232E-06	2.879E-05	600
67.0	1569	1.427E-06	1.841E-05	600
70.0	1353	1.230E-06	1.587E-05	600
73.0	646	6.237E-07	8.046E-06	600
76.0	244	2.448E-07	3.159E-06	600
79.0	119	1.007E-07	1.402E-06	600
82.0	4	4.221E-09	5.446E-08	600
85.0	1	1.583E-09	2.042E-08	600
88.0	7	4.860E-09	6.249E-08	600

CROSSHAIR INTEGRATED= 5.733E+04 SEC/90.M 7.395E+03 1/M

TEST U-13 OCTOBER 9, 1962 1045 TO 1145 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HI 1.5M U=12.9 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPLOSIVE G-SEC/CH. X10 ⁴ KG	F/Z SEC/CH. M	F/Z 1/SEC. M	DISTANCE METERS
36.0	0	7.007E-10	9.155E-09	1200
38.0	1	1.419E-09	1.831E-08	1200
40.0	0	0.000E+00	0.000E+00	1200
42.0	0	0.000E+00	0.000E+00	1200
44.0	14	1.155E-09	1.477E-07	1200
46.0	32	2.915E-09	3.655E-07	1200
48.0	69	6.201E-09	8.102E-07	1200
50.0	123	1.644E-08	2.147E-06	1200
52.0	278	4.354E-08	5.617E-06	1200
54.0	508	1.620E-07	2.060E-06	1200
56.0	1752	1.503E-06	2.055E-05	1200
P 58.0	3482	3.166E-06	4.084E-05	1200
P 60.0	3291	2.956E-06	3.813E-05	1200
62.0	1836	1.488E-06	1.919E-05	1200
64.0	1361	1.238E-06	1.597E-05	1200
66.0	1556	1.415E-06	1.825E-05	1200
68.0	754	6.002E-07	8.040E-06	1200
70.0	1071	9.744E-07	1.257E-05	1200
72.0	517	4.749E-07	6.075E-06	1200
74.0	320	2.729E-07	3.520E-06	1200
76.0	115	1.057E-07	1.364E-06	1200
78.0	11	1.065E-08	1.373E-07	1200
80.0	3	3.509E-09	4.578E-08	1200
82.0	0	0.000E+00	0.000E+00	1200
84.0	7	7.007E-09	9.155E-08	1200
86.0	0	3.509E-09	4.578E-08	1200
88.0	5	5.323E-09	6.867E-08	1200

CROSSHAIR INTEGRATED= 4.510E+08 SEC/90.M 8.410E+03 1/M

TEST U-13 OCTOBER 9, 1962 1045 TO 1145 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HI 1.5M U=12.9 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPLOSIVE G-SEC/CH. X10 ⁴ KG	F/Z SEC/CH. M	F/Z 1/SEC. M	DISTANCE METERS
34.0	2	2.109E-09	2.747E-08	1600
46.0	49	4.040E-09	5.173E-07	1600
48.0	75	4.499E-09	5.735E-07	1600
P 50.0	16	1.313E-08	1.694E-07	1600
P 52.0	39	3.630E-09	4.649E-07	1600
54.0	679	5.720E-07	7.379E-06	1600
56.0	1313	1.221E-06	1.576E-05	1600
58.0	1357	1.779E-06	2.295E-05	1600
60.0	1875	1.523E-06	1.965E-05	1600
62.0	1422	1.203E-06	1.668E-05	1600
64.0	1271	1.146E-06	1.491E-05	1600
P 66.0	1211	1.101E-06	1.402E-05	1600
P 68.0	1324	2.503E-07	4.783E-06	1600
70.0	656	5.049E-07	7.700E-06	1600
72.0	207	2.700E-07	3.494E-06	1600
P 74.0	204	1.850E-07	2.390E-06	1600
P 76.0	33	3.016E-08	3.891E-07	1600
78.0	3	1.102E-08	4.129E-08	1600
80.0	1	1.744E-09	2.289E-08	1600

CROSSHAIR INTEGRATED= 5.949E+08 SEC/90.M 7.675E+03 1/M

UNSTABLE SERIES EXPERIMENT: 14 (U-14)
GROUND LEVEL SAMPLING 100-1600 M ARCS.

TEST U-14 OCTOBER 9, 1962 0940 TO 1040 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
100M ARC SAMPLER MT 1.5" @ 7.0 L/SEC AT 56M

AZIMUTH DEGREES	EXPLOSURE CY-SEC/ARC	F/Z SEC/CM ²	F/ZC 1/SEC	DISTANCE METERS
40.0	8	4.623E-09	4.034E-08	100
44.0	13	1.971E-08	1.386E-07	100
48.0	26	3.419E-08	2.673E-07	100
52.0	25	3.572E-08	2.501E-07	100
56.0	33	4.631E-08	3.277E-07	100
60.0	21	2.956E-08	2.069E-07	100
64.0	52	7.301E-08	5.174E-07	100
68.0	29	1.065E-08	2.406E-07	100
72.0	35	5.050E-08	3.635E-07	100
76.0	10	1.478E-08	1.035E-07	100
80.0	7	1.109E-08	7.760E-08	100

CROSS-SECTION INTEGRATION = 2.590E-06 SEC/SEC
1/M

TEST U-14 OCTOBER 9, 1962 0940 TO 1040 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC SAMPLER MT 1.5" @ 7.0 L/SEC AT 56M

AZIMUTH DEGREES	EXPLOSURE CY-SEC/ARC	F/Z SEC/CM ²	F/ZC 1/SEC	DISTANCE METERS
26.0	3	0.907E-09	1.449E-08	200
30.0	1	2.160E-09	1.725E-08	200
34.0	1	2.160E-09	1.725E-08	200
38.0	16	4.529E-08	4.576E-07	200
42.0	37	5.257E-08	3.788E-07	200
46.0	55	4.376E-08	5.463E-07	200
50.0	143	2.316E-07	1.621E-06	200
54.0	122	1.737E-07	1.216E-06	200
58.0	71	4.578E-08	6.084E-07	200
62.0	27	3.702E-08	2.759E-07	200
66.0	11	1.601E-08	1.121E-07	200
70.0	16	2.310E-08	1.638E-07	200

CROSS-SECTION INTEGRATION = 1.111E-05 SEC/SEC
1/M

TEST U-14 OCTOBER 9, 1962 0940 TO 1040 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER MT 1.5" @ 7.0 L/SEC AT 56M

AZIMUTH DEGREES	EXPLOSURE CY-SEC/ARC	F/Z SEC/CM ²	F/ZC 1/SEC	DISTANCE METERS
12.0	51	7.269E-08	6.027E-07	300
16.0	4	7.301E-08	5.174E-08	300
20.0	86	1.256E-07	8.795E-07	300
24.0	20	1.095E-08	2.806E-07	300
28.0	152	2.156E-07	1.509E-06	300
32.0	1	2.440E-08	1.725E-08	300
36.0	244	1.511E-07	2.457E-06	300
40.0	374	5.321E-07	3.725E-06	300
44.0	674	2.547E-07	6.443E-06	300
48.0	1945	1.476E-06	1.033E-05	300
52.0	724	1.031E-06	7.217E-06	300
56.0	715	1.059E-06	7.381E-06	300
60.0	578	4.179E-07	5.726E-06	300
64.0	221	3.178E-07	2.225E-06	300
68.0	157	2.230E-07	1.561E-06	300
72.0	13	1.971E-08	1.386E-07	300
76.0	1	2.464E-08	1.725E-08	300

CROSS-SECTION INTEGRATION = 1.517E-04 SEC/SEC
1/M

TEST U-14 OCTOBER 9, 1962 0940 TO 1040 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER MT 1.5" @ 7.0 L/SEC AT 56M

AZIMUTH DEGREES	EXPLOSURE CY-SEC/ARC	F/Z SEC/CM ²	F/ZC 1/SEC	DISTANCE METERS
34.0	32	0.559E-08	3.190E-07	400
38.0	227	5.215E-07	2.251E-06	400
42.0	123	1.165E-07	5.157E-06	400
46.0	1453	2.056E-06	1.039E-05	400
50.0	2056	2.923E-06	2.006E-05	400
54.0	1454	2.426E-06	1.830E-05	400
58.0	2129	3.112E-06	2.178E-05	400
62.0	1423	1.971E-06	1.386E-05	400
66.0	503	2.647E-07	5.301E-06	400
70.0	70	1.007E-07	7.324E-07	400
74.0	1	2.464E-08	1.725E-08	400

CROSS-SECTION INTEGRATION = 0.216E-04 SEC/SEC
1/M

TEST H-14 OCTOBER 9, 1962 0900 TO 1000 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
500M ARC SAMPLED AT 1.5M DE 7.0 M/SEC AT 56M

AZIMUTH DEGREES X1000	EXPOSURE G-SEC/CM ² X1000	FZ SEC/CM ²	FZC 1/SEC	DISTANCE METERS
32.0	2	1.695E-09	2.567E-08	500
36.0	156	2.183E-07	1.535E-06	500
40.0	414	1.152E-06	8.062E-06	500
44.0	1697	2.711E-06	1.681E-05	500
48.0	5013	7.022E-06	4.964E-05	500
52.0	3051	5.023E-06	3.516E-05	500
56.0	3089	4.369E-06	3.058E-05	500
60.0	1927	2.826E-06	1.978E-05	500
64.0	1137	1.698E-06	1.128E-05	500
68.0	322	1.558E-07	1.190E-06	500
72.0	27	1.942E-08	2.759E-07	500

CROSSHAIR INTEGRAL = 4.794E-04
SEC/SQ.M 6.155E-03
1/M

TEST H-14 OCTOBER 9, 1962 0900 TO 1000 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLED AT 1.5M DE 7.0 M/SEC AT 56M

AZIMUTH DEGREES X1000	EXPOSURE G-SEC/CM ² X1000	FZ SEC/CM ²	FZC 1/SEC	DISTANCE METERS
30.0	50	7.145E-08	4.001E-07	600
34.0	93	1.183E-07	6.278E-07	600
38.0	127	8.891E-07	4.217E-06	600
42.0	1513	2.131E-06	1.499E-05	600
46.0	351	4.265E-06	3.476E-05	600
50.0	4506	6.371E-06	4.460E-05	600
54.0	3072	5.338E-06	3.772E-05	600
58.0	2731	3.863E-06	2.704E-05	600
62.0	1767	2.501E-06	1.758E-05	600
66.0	1073	1.519E-06	1.063E-05	600
70.0	79	1.121E-07	7.847E-07	600
74.0	2	3.695E-09	2.567E-08	600

CROSSHAIR INTEGRAL = 1.170E-03
SEC/SQ.M 8.193E-03
1/M

TEST H-14 OCTOBER 9, 1962 0900 TO 1000 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLED AT 1.5M DE 7.0 M/SEC AT 56M

AZIMUTH DEGREES X1000	EXPOSURE G-SEC/CM ² X1000	FZ SEC/CM ²	FZC 1/SEC	DISTANCE METERS
28.0	2	6.199E-09	4.311E-08	800
31.0	31	1.035E-08	3.109E-07	800
34.0	85	6.165E-08	4.098E-07	800
37.0	250	3.208E-07	2.285E-06	800
40.0	1426	1.714E-06	1.214E-05	800
43.0	1620	2.308E-06	1.632E-05	800
46.0	2130	3.013E-06	2.109E-05	800
49.0	2710	3.805E-06	2.720E-05	800
52.0	2910	4.123E-06	2.888E-05	800
55.0	2165	3.022E-06	2.144E-05	800
58.0	1409	2.673E-06	1.871E-05	800
61.0	1957	2.161E-06	1.443E-05	800
64.0	710	1.005E-06	7.036E-06	800
67.0	631	4.512E-07	5.958E-06	800
70.0	97	6.775E-08	4.743E-07	800
73.0	5	1.355E-08	9.495E-08	800
76.0	6	6.159E-09	4.311E-08	800

CROSSHAIR INTEGRAL = 1.057E-03
SEC/SQ.M 7.401E-03
1/M

TEST H-14 OCTOBER 9, 1962 0900 TO 1000 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLED AT 1.5M DE 7.0 M/SEC AT 56M

AZIMUTH DEGREES X1000	EXPOSURE G-SEC/CM ² X1000	FZ SEC/CM ²	FZC 1/SEC	DISTANCE METERS
32.0	2	2.923E-09	2.004E-08	1200
36.0	12	2.777E-09	1.944E-07	1200
38.0	56	4.259E-09	5.781E-07	1200
40.0	176	2.492E-07	1.745E-06	1200
42.0	642	2.369E-07	1.659E-06	1200
44.0	102	1.134E-06	7.950E-06	1200
46.0	101	1.069E-06	7.321E-06	1200
48.0	1235	1.752E-06	1.226E-05	1200
50.0	1135	2.064E-06	1.431E-05	1200
52.0	1710	2.425E-06	1.697E-05	1200
54.0	1610	2.277E-06	1.564E-05	1200
56.0	1557	2.203E-06	1.442E-05	1200
58.0	993	1.489E-06	9.440E-06	1200
60.0	593	2.463E-07	5.924E-06	1200
62.0	435	6.154E-07	4.308E-06	1200
64.0	420	5.942E-07	4.159E-06	1200
66.0	159	2.185E-07	1.530E-06	1200
68.0	52	8.405E-08	5.883E-07	1200
70.0	58	4.332E-08	5.832E-07	1200
72.0	12	1.827E-08	1.279E-07	1200
74.0	2	3.654E-09	2.558E-08	1200
76.0	0	0.000E+00	0.000E+00	1200

CROSSHAIR INTEGRAL = 7.539E-04
SEC/SQ.M 5.277E-03
1/M

TEST H-14 OCTOBER 9, 1962 0900 TO 1000 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLED AT 1.5M DE 7.0 M/SEC AT 56M

AZIMUTH DEGREES X1000	EXPOSURE G-SEC/CM ² X1000	FZ SEC/CM ²	FZC 1/SEC	DISTANCE METERS
30.0	2	2.923E-09	2.004E-08	1600
36.0	32	5.242E-09	3.683E-07	1600
38.0	152	2.163E-07	1.514E-06	1600
40.0	100	2.556E-07	1.791E-06	1600
42.0	491	4.958E-07	4.870E-06	1600
44.0	540	7.408E-07	5.299E-06	1600
46.0	430	7.009E-07	4.706E-06	1600
48.0	210	1.248E-06	9.014E-06	1600
50.0	563	7.974E-07	4.581E-06	1600
52.0	1217	1.723E-06	1.206E-05	1600
54.0	901	1.275E-06	8.927E-06	1600
56.0	609	2.472E-07	1.630E-06	1600
58.0	359	5.079E-07	3.556E-06	1600
60.0	508	7.189E-07	5.039E-06	1600
62.0	193	1.462E-07	1.023E-06	1600
64.0	80	1.133E-07	7.930E-07	1600
66.0	26	3.900E-08	2.660E-07	1600
68.0	7	1.896E-08	1.674E-08	1600
70.0	2	2.323E-09	2.006E-08	1600
72.0	2	3.654E-09	2.558E-08	1600

CROSSHAIR INTEGRAL = 5.723E-04
SEC/SQ.M 4.006E-03
1/M

UNSTABLE SERIES EXPERIMENT: 15 (U-15)
GROUND LEVEL SAMPLING 100-1600 M ARCS.

TEST U-15 NOVEMBER 5, 1962 1205 TO 1305 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
100M ARC SAMPLER HT 1.5M U= 9.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/C SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
36.0	3	4.781E-09	4.734E-08	100
40.0	10	1.495E-08	1.420E-07	100
44.0	21	2.890E-08	2.746E-07	100
48.0	10	1.395E-08	1.325E-07	100
52.0	18	2.491E-08	2.367E-07	100
56.0	7	9.966E-09	9.467E-08	100
60.0	1	1.993E-09	1.893E-08	100
64.0	12	1.694E-08	1.609E-07	100
68.0	5	7.973E-09	7.574E-08	100
72.0	14	1.993E-08	1.893E-07	100
76.0	2	3.986E-09	3.787E-08	100
80.0	10	1.395E-08	1.325E-07	100
84.0	8	1.196E-08	1.136E-07	100
88.0	10	1.495E-08	1.420E-07	100
92.0	11	1.595E-08	1.515E-07	100
96.0	8	1.196E-08	1.136E-07	100
100.0	14	1.993E-08	1.893E-07	100
104.0	8	1.196E-08	1.136E-07	100

CROSSWIND INTEGRATED= 1.739E-06 SEC/SQ.M
1.652E-05 1/M

TEST U-15 NOVEMBER 5, 1962 1205 TO 1305 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC SAMPLER HT 1.5M U= 9.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/C SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
62.0	2	3.986E-09	3.787E-08	200
66.0	0	9.966E-10	9.467E-09	200
70.0	3	4.983E-09	4.734E-08	200
74.0	24	3.388E-08	3.219E-07	200
78.0	21	2.990E-08	2.840E-07	200
82.0	15	2.093E-08	1.988E-07	200
86.0	13	1.897E-08	1.799E-07	200
90.0	8	1.196E-08	1.136E-07	200
94.0	12	1.694E-08	1.609E-07	200
98.0	5	7.973E-09	7.574E-08	200
102.0	18	2.491E-08	2.367E-07	200
106.0	3	4.983E-09	4.734E-08	200

CROSSWIND INTEGRATED= 2.519E-06 SEC/SQ.M
2.393E-05 1/M

TEST U-15 NOVEMBER 5, 1962 1205 TO 1305 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M U= 9.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/C SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
60.0	8	1.096E-08	1.041E-07	300
64.0	5	6.976E-09	6.627E-08	300
68.0	26	3.588E-08	3.408E-07	300
72.0	31	4.285E-08	4.071E-07	300
76.0	35	4.883E-08	4.639E-07	300
80.0	0	0.000E+00	0.000E+00	300
84.0	2	3.986E-09	3.787E-08	300
88.0	7	9.966E-09	9.467E-08	300
92.0	8	1.196E-08	1.136E-07	300

CROSSWIND INTEGRATED= 3.590E-06 SEC/SQ.M
3.411E-05 1/M

TEST U-15 NOVEMBER 5, 1962 1205 TO 1305 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 9.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/C SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
50.0	2	3.986E-09	3.787E-08	400
54.0	10	1.495E-08	1.420E-07	400
58.0	45	8.870E-08	8.426E-07	400
62.0	27	3.787E-08	3.598E-07	400
66.0	70	9.667E-08	9.183E-07	400
70.0	332	4.530E-07	4.308E-06	400
74.0	130	1.780E-07	1.695E-06	400
78.0	35	4.780E-08	4.544E-07	400
82.0	49	4.777E-08	4.438E-07	400
86.0	24	3.289E-08	3.124E-07	400

CROSSWIND INTEGRATED= 2.855E-05 SEC/SQ.M
2.713E-04 1/M

TEST U-15 NOVEMBER 5, 1962 1205 TO 1305 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
500M ARC SAMPLER HT 1.5M U= 9.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/C SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
52.0	24	3.388E-08	3.219E-07	500
56.0	78	1.076E-07	1.022E-06	500
60.0	224	3.059E-07	2.907E-06	500
64.0	262	3.588E-07	3.408E-06	500
68.0	275	3.757E-07	3.569E-06	500
72.0	469	6.408E-07	6.088E-06	500
76.0	72	9.866E-08	9.373E-07	500
80.0	71	9.766E-08	9.278E-07	500
84.0	48	6.577E-08	6.249E-07	500
88.0	2	2.990E-09	2.840E-08	500
92.0	8	1.196E-08	1.136E-07	500
96.0	3	4.983E-09	4.734E-08	500

CROSSWIND INTEGRATED= 7.347E-05 SEC/SQ.M
6.980E-04 1/M

TEST U-15 NOVEMBER 5, 1962 1205 TO 1305 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 9.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CU.M X10E+6	E/O SEC/CU.M	E/O 1/50.M	DISTANCE METERS
42.0	11	1.595E-08	1.515E-07	600
50.0	35	4.784E-08	4.544E-07	600
58.0	120	2.401E-07	2.471E-06	600
58.0	376	5.142E-07	4.885E-06	600
62.0	186	2.003E-07	1.903E-06	600
66.0	542	7.405E-07	7.034E-06	600
70.0	694	9.477E-07	9.004E-06	600
74.0	405	5.531E-07	5.254E-06	600
78.0	219	1.269E-07	3.105E-06	600
T 82.0	29	4.046E-08	3.882E-07	600
86.0	21	2.890E-08	2.746E-07	600

CROSSWIND INTEGRATED= 1.597E-04 SEC/50.M
1.479E-03 1/M

TEST U-15 NOVEMBER 5, 1962 1205 TO 1305 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 9.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CU.M X10E+6	E/O SEC/CU.M	E/O 1/50.M	DISTANCE METERS
46.0	5	6.976E-09	6.627E-08	600
49.0	35	4.883E-08	4.639E-07	600
F 52.0	187	2.551E-07	2.424E-06	600
E 55.0	537	7.335E-07	6.968E-06	600
F 58.0	727	9.926E-07	9.430E-06	600
E 61.0	508	6.916E-07	6.589E-06	600
64.0	748	1.020E-06	9.695E-06	600
70.0	1476	2.014E-06	1.913E-05	600
73.0	1078	1.471E-06	1.397E-05	600
76.0	390	5.322E-07	5.056E-06	600
79.0	268	1.667E-07	3.484E-06	600
82.0	59	8.072E-08	7.669E-07	600
85.0	32	4.385E-08	4.166E-07	600

CROSSWIND INTEGRATED= 4.995E-04 SEC/50.M
3.891E-03 1/M

TEST U-15 NOVEMBER 5, 1962 1205 TO 1305 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 9.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CU.M X10E+6	E/O SEC/CU.M	E/O 1/50.M	DISTANCE METERS
46.0	2	3.746E-09	3.558E-08	1200
49.0	20	2.747E-08	2.609E-07	1200
50.0	66	9.052E-08	8.599E-07	1200
52.0	360	4.913E-07	4.667E-06	1200
54.0	757	1.034E-06	9.821E-06	1200
56.0	942	1.285E-06	1.221E-05	1200
58.0	688	9.389E-07	8.919E-06	1200
60.0	706	9.645E-07	9.162E-06	1200
62.0	473	6.461E-07	6.138E-06	1200
64.0	691	9.439E-07	8.967E-06	1200
66.0	775	1.057E-06	1.005E-05	1200
68.0	1591	2.157E-06	2.050E-05	1200
70.0	1570	2.142E-06	2.035E-05	1200
72.0	839	1.145E-06	1.088E-05	1200
74.0	652	8.908E-07	8.463E-06	1200
76.0	453	6.193E-07	5.883E-06	1200
78.0	211	2.890E-07	2.746E-06	1200
80.0	103	1.411E-07	1.340E-06	1200
82.0	48	6.555E-08	6.227E-07	1200
84.0	3	4.370E-09	4.151E-08	1200
86.0	0	0.000E+00	0.000E+00	1200
88.0	3	4.370E-09	4.151E-08	1200
90.0	0	1.249E-09	1.186E-08	1200

CROSSWIND INTEGRATED= 6.259E-04 SEC/50.M
5.947E-03 1/M

TEST U-15 NOVEMBER 5, 1962 1205 TO 1305 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 9.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CU.M X10E+6	E/O SEC/CU.M	E/O 1/50.M	DISTANCE METERS
46.0	1	2.497E-09	2.372E-08	1600
48.0	3	4.370E-09	4.151E-08	1600
50.0	159	2.172E-07	2.064E-06	1600
52.0	420	5.703E-07	5.456E-06	1600
54.0	735	1.008E-06	9.578E-06	1600
56.0	490	6.698E-07	6.363E-06	1600
58.0	218	2.984E-07	2.835E-06	1600
60.0	204	2.700E-07	2.651E-06	1600
62.0	96	1.317E-07	1.251E-06	1600
64.0	722	9.857E-07	9.364E-06	1600
66.0	952	1.299E-06	1.234E-05	1600
68.0	774	1.056E-06	1.003E-05	1600
70.0	835	1.141E-06	1.083E-05	1600
72.0	647	4.839E-07	4.597E-06	1600
74.0	500	6.829E-07	6.488E-06	1600
76.0	18	2.559E-08	2.431E-07	1600
78.0	3	4.994E-09	4.744E-08	1600
80.0	38	5.244E-08	4.982E-07	1600
82.0	5	7.491E-09	7.117E-08	1600

CROSSWIND INTEGRATED= 5.208E-04 SEC/50.M
4.947E-03 1/M

UNSTABLE SERIES EXPERIMENT: 16 (U-16)
GROUND LEVEL SAMPLING 100-1600 M ARCS. THE TRACER WAS NOT
DETECTED ON THE 100 OR 200 M ARCS.

TEST U-16 NOVEMBER 5, 1962 1350 TO 1450 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/U SEC/CU.M	F/U 1/SEC.M	DISTANCE METERS
16.0	2	3.301E-09	2.844E-08	300
20.0	2	3.301E-09	2.844E-08	300
24.0	5	7.913E-09	6.647E-08	300
28.0	4	1.357E-08	1.140E-07	300
32.0	6	9.044E-09	7.597E-08	300
36.0	16	2.261E-08	1.899E-07	300
40.0	8	1.244E-08	1.045E-07	300
44.0	137	1.911E-07	1.605E-06	300
48.0	34	4.748E-08	3.988E-07	300
52.0	32	4.522E-08	3.798E-07	300
56.0	90	1.255E-07	1.054E-06	300
60.0	26	3.618E-08	3.039E-07	300
64.0	27	3.648E-08	3.229E-07	300
68.0	26	3.618E-08	3.039E-07	300
72.0	6	9.044E-09	7.597E-08	300
76.0	10	1.470E-08	1.234E-07	300
80.0	9	1.357E-08	1.140E-07	300
84.0	6	9.044E-09	7.597E-08	300
88.0	16	2.261E-08	1.899E-07	300
92.0	8	1.244E-08	1.045E-07	300
96.0	12	1.696E-08	1.424E-07	300
100.0	10	1.470E-08	1.234E-07	300
104.0	4	5.652E-09	4.748E-08	300

CROSSWIND INTEGRATED= 1.489E-05 SEC/SEC.M 1/M

TEST U-16 NOVEMBER 5, 1962 1350 TO 1450 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/U SEC/CU.M	F/U 1/SEC.M	DISTANCE METERS
W 34.0	1	2.261E-09	1.899E-08	400
W 42.0	24	3.393E-08	2.844E-07	400
46.0	371	5.195E-07	4.330E-06	400
50.0	105	1.458E-07	1.225E-06	400
54.0	393	5.472E-07	4.596E-06	400
58.0	157	2.182E-07	1.833E-06	400
62.0	164	2.284E-07	1.918E-06	400
66.0	26	3.618E-08	3.039E-07	400
70.0	4	5.652E-09	4.748E-08	400
74.0	11	1.583E-08	1.329E-07	400
78.0	5	7.913E-09	6.647E-08	400
82.0	7	1.017E-08	8.547E-08	400
86.0	0	0.000E+00	0.000E+00	400
90.0	8	1.130E-08	9.496E-08	400
94.0	2	3.393E-09	2.844E-08	400
98.0	0	1.130E-09	9.496E-09	400

CROSSWIND INTEGRATED= 5.032E-05 SEC/SEC.M 1/M

TEST U-16 NOVEMBER 5, 1962 1350 TO 1450 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
500M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/U SEC/CU.M	F/U 1/SEC.M	DISTANCE METERS
24.0	14	2.035E-08	1.709E-07	500
28.0	78	1.097E-07	9.211E-07	500
32.0	320	4.454E-07	3.741E-06	500
36.0	417	5.799E-07	4.872E-06	500
40.0	234	3.256E-07	2.735E-06	500
44.0	211	2.939E-07	2.465E-06	500
48.0	330	2.714E-07	2.266E-06	500
52.0	567	7.880E-07	6.619E-06	500
56.0	742	1.031E-06	8.660E-06	500
60.0	410	5.698E-07	4.786E-06	500
64.0	271	3.776E-07	3.172E-06	500
68.0	51	7.122E-08	5.983E-07	500
72.0	23	3.278E-08	2.754E-07	500
76.0	13	1.899E-08	1.519E-07	500

CROSSWIND INTEGRATED= 1.702E-04 SEC/SEC.M 1/M

TEST U-16 NOVEMBER 5, 1962 1350 TO 1450 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/U SEC/CU.M	F/U 1/SEC.M	DISTANCE METERS
22.0	26	3.731E-08	3.134E-07	600
26.0	39	5.426E-08	4.558E-07	600
30.0	271	3.765E-07	3.162E-06	600
34.0	578	8.038E-07	6.752E-06	600
38.0	334	5.291E-07	4.444E-06	600
42.0	378	5.257E-07	4.418E-06	600
46.0	293	4.070E-07	3.415E-06	600
50.0	717	9.971E-07	8.376E-06	600
54.0	1421	1.975E-06	1.659E-05	600
58.0	757	1.652E-06	1.381E-05	600
62.0	134	6.937E-07	5.071E-06	600
66.0	194	2.566E-07	2.156E-06	600
70.0	72	1.086E-07	8.452E-07	600
74.0	2	3.393E-09	2.844E-08	600
78.0	7	1.017E-08	8.547E-08	600

CROSSWIND INTEGRATED= 3.239E-04 SEC/SEC.M 1/M

TEST 11-16 NOVEMBER 5, 1962 1350 TO 1450 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 564
ROOM AIR SAMPLER HT 1.5M U= 0.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	F/U 1/SEC	DISTANCE METERS
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13.0	0	0.000E+00	0.000E+00	800
16.0	0	0.000E+00	0.000E+00	800
19.0	2	3.391E-09	2.849E-08	800
22.0	33	4.635E-08	3.893E-07	800
25.0	19	2.713E-08	2.279E-07	800
28.0	190	2.770E-07	2.327E-06	800
31.0	235	3.267E-07	2.744E-06	800
34.0	434	4.037E-07	3.071E-06	800
37.0	420	5.890E-07	4.947E-06	800
40.0	383	5.325E-07	4.473E-06	800
43.0	246	3.848E-07	3.206E-06	800
46.0	306	4.262E-07	3.580E-06	800
49.0	673	9.389E-07	7.853E-06	800
52.0	303	4.217E-07	3.542E-06	800
55.0	246	3.425E-07	2.877E-06	800
58.0	206	2.871E-07	2.412E-06	800
61.0	273	3.798E-07	3.191E-06	800
64.0	340	4.725E-07	3.969E-06	800
67.0	282	3.923E-07	3.295E-06	800
70.0	60	8.366E-08	7.027E-07	800
75.0	39	5.426E-08	4.558E-07	800
76.0	0	1.130E-09	9.496E-09	800

CROSSWIND INTEGRATED= 2.754E-04 SEC/30.M
2.313E-03 1/M

TEST 11-16 NOVEMBER 5, 1962 1350 TO 1450 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200M AIR SAMPLER HT 1.5M U= 0.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	F/U 1/SEC	DISTANCE METERS
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29.0	14	2.455E-08	1.726E-07	1200
26.0	50	6.150E-08	5.184E-07	1200
26.0	201	2.794E-07	2.347E-06	1200
30.0	170	2.370E-07	1.991E-06	1200
32.0	286	3.986E-07	3.342E-06	1200
34.0	289	3.328E-07	2.797E-06	1200
36.0	202	2.815E-07	2.364E-06	1200
38.0	400	5.561E-07	4.671E-06	1200
40.0	618	8.595E-07	7.220E-06	1200
42.0	450	6.253E-07	5.252E-06	1200
44.0	275	3.876E-07	3.258E-06	1200
46.0	442	6.150E-07	5.166E-06	1200
48.0	466	6.486E-07	5.408E-06	1200
50.0	516	7.178E-07	6.029E-06	1200
52.0	1420	1.972E-06	1.657E-05	1200
54.0	1427	1.983E-06	1.665E-05	1200
56.0	1082	1.504E-06	1.263E-05	1200
58.0	485	6.746E-07	5.667E-06	1200
60.0	482	6.698E-07	5.626E-06	1200
62.0	383	5.328E-07	4.476E-06	1200
64.0	183	2.548E-07	2.140E-06	1200
66.0	173	2.411E-07	2.025E-06	1200
68.0	156	2.171E-07	1.824E-06	1200
70.0	79	1.103E-07	9.262E-07	1200
72.0	42	5.958E-08	5.005E-07	1200
74.0	9	1.301E-08	1.093E-07	1200

CROSSWIND INTEGRATED= 5.010E-04 SEC/30.M
4.208E-03 1/M

TEST 11-16 NOVEMBER 5, 1962 1350 TO 1450 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 564
1600M AIR SAMPLER HT 1.5M U= 0.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	F/U 1/SEC	DISTANCE METERS
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2.0	0	6.809E-10	5.753E-09	1600
6.0	3	4.794E-09	4.027E-08	1600
8.0	7	1.056E-08	9.205E-08	1600
10.0	10	1.507E-08	1.266E-07	1600
12.0	0	0.000E+00	0.000E+00	1600
14.0	0	1.370E-09	1.151E-08	1600
16.0	6	9.588E-09	8.054E-08	1600
18.0	6	9.588E-09	8.054E-08	1600
20.0	8	1.164E-08	9.780E-08	1600
22.0	22	3.082E-08	2.589E-07	1600
24.0	0	6.160E-09	5.178E-08	1600
26.0	71	9.949E-08	8.399E-07	1600
28.0	109	1.520E-07	1.277E-06	1600
30.0	140	2.233E-07	1.875E-06	1600
32.0	35	4.863E-08	4.085E-07	1600
34.0	23	3.287E-08	2.761E-07	1600
36.0	216	3.007E-07	2.526E-06	1600
38.0	233	3.246E-07	2.727E-06	1600
40.0	281	3.904E-07	3.279E-06	1600
42.0	137	1.904E-07	1.599E-06	1600
44.0	133	1.849E-07	1.553E-06	1600
46.0	204	2.835E-07	2.382E-06	1600
48.0	201	3.449E-07	2.813E-06	1600
50.0	501	6.972E-07	5.857E-06	1600
52.0	503	6.993E-07	5.874E-06	1600
54.0	561	7.794E-07	6.547E-06	1600
56.0	415	5.767E-07	4.844E-06	1600
58.0	437	6.075E-07	5.103E-06	1600
60.0	436	6.068E-07	5.097E-06	1600
62.0	244	3.390E-07	2.848E-06	1600
64.0	182	2.534E-07	2.129E-06	1600
66.0	192	2.671E-07	2.244E-06	1600
68.0	89	1.200E-07	1.041E-06	1600
70.0	37	5.274E-08	4.430E-07	1600
72.0	13	1.918E-08	1.611E-07	1600
74.0	0	6.849E-09	5.753E-08	1600
76.0	2	3.424E-09	2.876E-08	1600
78.0	8	1.233E-08	1.036E-07	1600
80.0	1	2.740E-09	2.301E-08	1600

CROSSWIND INTEGRATED= 4.310E-04 SEC/30.M
3.621E-03 1/M

UNSTABLE SERIES EXPERIMENT: 17 (U-17)
GROUND LEVEL SAMPLING 300-1600 M ARCS. TRACER CONTAMINATION ON
300 AND 400 M ARCS.

TEST U-17 NOVEMBER 9, 1962 1130 TO 1147 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER #1 1.5M U= 0.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/C SEC/CM ²	F/C 1/SEC	DISTANCE METERS
32.0	13	4.275E-08	3.808E-07	300
36.0	105	1.288E-07	2.926E-06	300
40.0	26	2.703E-07	2.405E-06	300
44.0	250	7.815E-07	6.955E-06	300
48.0	231	6.283E-07	5.592E-06	300
52.0	41	2.505E-07	2.245E-06	300
56.0	27	8.588E-08	7.617E-07	300
60.0	14	4.500E-08	4.009E-07	300
64.0	0	2.252E-08	2.004E-08	300
68.0	2	9.008E-09	8.018E-08	300
72.0	4	1.351E-08	1.203E-07	300
76.0	5	1.802E-08	1.604E-07	300
80.0	5	1.576E-08	1.403E-07	300
84.0	3	1.124E-08	1.002E-07	300

CROSSKIND INTEGRATED= 5.250E-05 SEC/SG.M
4.672E-04 1/M

TEST U-17 NOVEMBER 9, 1962 1130 TO 1147 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER #1 1.5M U= 0.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/C SEC/CM ²	F/C 1/SEC	DISTANCE METERS
30.0	3	1.124E-08	1.002E-07	400
34.0	232	7.262E-07	6.454E-06	400
38.0	455	1.423E-06	1.267E-05	400
42.0	731	2.191E-06	1.950E-05	400
46.0	728	2.277E-06	2.026E-05	400
50.0	704	2.203E-06	1.960E-05	400
54.0	317	9.932E-07	8.839E-06	400
58.0	151	4.720E-07	4.209E-06	400
62.0	2	9.008E-09	8.018E-08	400

CROSSKIND INTEGRATED= 2.878E-04 SEC/SG.M
2.561E-03 1/M

TEST U-17 NOVEMBER 9, 1962 1130 TO 1147 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
500M ARC SAMPLER #1 1.5M U= 0.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/C SEC/CM ²	F/C 1/SEC	DISTANCE METERS
24.0	2	9.008E-09	8.018E-08	500
28.0	4	0.000E+00	0.000E+00	500
32.0	74	2.320E-07	2.065E-06	500
36.0	356	1.113E-06	9.902E-06	500
40.0	397	1.201E-06	1.104E-05	500
44.0	879	2.788E-06	2.485E-05	500
48.0	1086	3.394E-06	3.021E-05	500
52.0	1977	3.108E-06	2.802E-05	500
56.0	316	9.887E-07	8.799E-06	500
60.0	12	4.054E-08	3.608E-07	500

CROSSKIND INTEGRATED= 4.500E-04 SEC/SG.M
4.012E-03 1/M

TEST U-17 NOVEMBER 9, 1962 1130 TO 1147 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLER #1 1.5M U= 0.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/C SEC/CM ²	F/C 1/SEC	DISTANCE METERS
30.0	4	2.203E-08	2.405E-07	600
34.0	208	7.770E-07	6.915E-06	600
38.0	379	1.182E-06	1.056E-05	600
42.0	779	2.037E-06	2.169E-05	600
46.0	1225	3.831E-06	3.409E-05	600
50.0	1492	4.640E-06	4.151E-05	600
54.0	538	1.682E-06	1.492E-05	600
58.0	315	9.844E-07	8.779E-06	600

CROSSKIND INTEGRATED= 6.531E-04 SEC/SG.M
5.813E-03 1/M

TEST U-17 NOVEMBER 9, 1962 1130 TO 1147 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER #1 1.5M U= 0.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/C SEC/CM ²	F/C 1/SEC	DISTANCE METERS
28.0	2	6.754E-09	6.013E-08	800
31.0	0	0.000E+00	0.000E+00	800
34.0	169	5.262E-07	4.710E-06	800
37.0	301	1.088E-06	9.591E-06	800
40.0	878	2.738E-06	2.433E-05	800
43.0	1159	3.624E-06	3.225E-05	800
46.0	1855	5.709E-06	5.161E-05	800
49.0	1454	4.545E-06	4.045E-05	800
52.0	668	2.083E-06	1.854E-05	800
55.0	330	1.031E-06	9.180E-06	800
58.0	154	4.842E-07	4.309E-06	800
61.0	4	2.252E-09	2.004E-08	800
64.0	2	9.008E-09	8.018E-08	800

CROSSKIND INTEGRATED= 9.180E-04 SEC/SG.M
8.170E-03 1/M

TEST 1-17 NOVEMBER 9, 1962 1130 TO 1147 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 1200M ARC SAMPLER RT 1.5M U= 0.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10 ⁴ +	F/Z SEC/CM ²	F/Z 1/SEC	DISTANCE METERS
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34.0	8	2.550E-06	2.269E-07	1200
36.0	71	2.220E-07	1.979E-06	1200
38.0	147	8.664E-07	4.098E-06	1200
40.0	566	1.769E-06	1.574E-05	1200
42.0	629	1.968E-06	1.751E-05	1200
44.0	817	2.554E-06	2.273E-05	1200
46.0	970	3.033E-06	2.699E-05	1200
48.0	564	1.760E-06	1.570E-05	1200
50.0	388	1.215E-06	1.082E-05	1200
52.0	257	8.032E-07	7.149E-06	1200
54.0	192	6.007E-07	5.346E-06	1200
56.0	98	2.419E-07	2.509E-06	1200
58.0	20	6.516E-08	5.800E-07	1200

CROSSHAIR INTEGRATED= 5.153E-04 4.586E-03
 SEC/CM² 1/M

TEST 1-17 NOVEMBER 9, 1962 1130 TO 1147 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 1600M ARC SAMPLER RT 1.5M U= 0.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10 ⁴ +	F/Z SEC/CM ²	F/Z 1/SEC	DISTANCE METERS
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32.0	2	7.003E-09	6.304E-08	1600
34.0	0	1.017E-09	1.261E-08	1600
36.0	13	4.160E-08	3.654E-07	1600
38.0	90	2.615E-07	2.509E-06	1600
40.0	313	2.803E-07	8.725E-06	1600
42.0	580	1.815E-06	1.615E-05	1600
44.0	566	1.771E-06	1.576E-05	1600
46.0	668	2.088E-06	1.858E-05	1600
48.0	456	1.427E-06	1.270E-05	1600
50.0	276	8.627E-07	7.678E-06	1600
52.0	212	6.630E-07	5.901E-06	1600
54.0	118	3.712E-07	3.303E-06	1600
56.0	61	1.912E-07	1.702E-06	1600
58.0	10	3.258E-08	2.900E-07	1600

CROSSHAIR INTEGRATED= 5.803E-04 5.235E-03
 SEC/CM² 1/M

UNSTABLE SERIES EXPERIMENT: 18 (U-18)
GROUND LEVEL SAMPLING 100-1600 M ARCS. THE TRACER WAS NOT
DETECTED ON THE 100 OR 200 M ARCS.

TEST U-18 NOVEMBER 9, 1962 1255 TO 1355 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M U= 8.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CU.M X10E+6	F/D SEC/CU.M	F/D 1/SEC	DISTANCE METERS
56.0	0	0.000E+00	0.000E+00	300
60.0	44	1.147E-08	2.643E-07	300
64.0	5	1.553E-09	2.984E-08	300
68.0	56	4.009E-08	3.368E-07	300
72.0	12	8.628E-09	7.247E-08	300
76.0	10	7.613E-09	6.395E-08	300
80.0	14	1.015E-08	8.526E-08	300
84.0	0	0.000E+00	0.000E+00	300
88.0	0	5.075E-10	4.263E-09	300
92.0	0	0.000E+00	0.000E+00	300
96.0	0	1.045E-09	2.558E-08	300

CROSSWIND INTEGRATED= 2.200E-06 1.848E-05
SEC/SEC 1/M

TEST U-18 NOVEMBER 9, 1962 1255 TO 1355 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 8.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CU.M X10E+6	F/D SEC/CU.M	F/D 1/SEC	DISTANCE METERS
42.0	2	2.030E-09	1.705E-08	400
50.0	7	5.583E-09	4.689E-08	400
54.0	2	1.523E-09	1.279E-08	400
58.0	20	1.421E-08	1.194E-07	400
62.0	167	1.177E-07	9.891E-07	400
66.0	105	7.461E-08	6.267E-07	400
70.0	451	3.177E-07	2.669E-06	400
74.0	321	2.264E-07	1.901E-06	400
78.0	164	1.157E-07	9.720E-07	400
82.0	62	4.415E-08	3.709E-07	400
86.0	0	1.045E-09	2.558E-08	400
90.0	2	1.523E-09	1.279E-08	400
94.0	2	2.030E-09	1.705E-08	400

CROSSWIND INTEGRATED= 2.600E-05 2.184E-04
SEC/SEC 1/M

TEST U-18 NOVEMBER 9, 1962 1255 TO 1355 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
500M ARC SAMPLER HT 1.5M U= 8.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CU.M X10E+6	F/D SEC/CU.M	F/D 1/SEC	DISTANCE METERS
52.0	15	1.046E-08	8.953E-08	500
56.0	43	3.045E-08	2.558E-07	500
60.0	230	1.680E-07	1.411E-06	500
64.0	250	1.761E-07	1.479E-06	500
68.0	1426	1.035E-06	8.811E-06	500
72.0	557	3.927E-07	3.275E-06	500
76.0	1139	8.020E-07	6.740E-06	500
80.0	528	3.720E-07	3.125E-06	500
84.0	105	7.410E-08	6.224E-07	500
88.0	0	3.045E-09	2.558E-08	500

CROSSWIND INTEGRATED= 1.069E-04 8.894E-04
SEC/SEC 1/M

TEST U-18 NOVEMBER 9, 1962 1255 TO 1355 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLER HT 1.5M U= 8.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CU.M X10E+6	F/D SEC/CU.M	F/D 1/SEC	DISTANCE METERS
30.0	0	4.568E-09	3.837E-08	600
34.0	0	5.075E-10	4.263E-09	600
38.0	4	3.005E-09	2.558E-08	600
42.0	5	4.460E-09	3.811E-08	600
46.0	0	0.000E+00	0.000E+00	600
50.0	1	1.015E-09	8.526E-08	600
54.0	08	3.400E-08	2.856E-07	600
58.0	111	7.867E-08	6.608E-07	600
62.0	422	2.974E-07	2.498E-06	600
66.0	712	5.019E-07	4.216E-06	600
70.0	933	6.572E-07	5.521E-06	600
74.0	2089	1.471E-06	1.236E-05	600
78.0	977	6.887E-07	5.785E-06	600
82.0	253	1.788E-07	1.501E-06	600
86.0	35	2.487E-08	2.089E-07	600
90.0	5	4.060E-09	3.411E-08	600

CROSSWIND INTEGRATED= 1.655E-04 1.390E-03
SEC/SEC 1/M

TEST U-18 NOVEMBER 9, 1962 1255 TO 1355 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 8.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CU.M X10E+6	F/D SEC/CU.M	F/D 1/SEC	DISTANCE METERS
46.0	5	3.553E-09	2.984E-08	800
50.0	0	5.075E-10	4.263E-09	800
52.0	71	5.024E-08	4.221E-07	800
55.0	171	1.208E-07	1.015E-06	800
58.0	243	1.852E-07	1.556E-06	800
61.0	652	4.598E-07	3.862E-06	800
64.0	815	5.740E-07	4.822E-06	800
67.0	2105	1.519E-06	1.293E-05	800
70.0	2944	2.088E-06	1.754E-05	800
73.0	3323	2.300E-06	1.966E-05	800
76.0	1354	9.541E-07	8.015E-06	800
79.0	928	6.537E-07	5.491E-06	800
82.0	479	1.380E-07	2.839E-06	800
85.0	108	7.813E-08	6.395E-07	800
88.0	9	6.598E-09	5.542E-08	800

CROSSWIND INTEGRATED= 3.933E-04 3.304E-03
SEC/SEC 1/M

TEST U-18 NOVEMBER 9, 1962 1255 TO 1355 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5' U= 8.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	F/U/D 1/SEC	DISTANCE METERS
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48.0	1	1.277E-09	1.073E-08	1200
50.0	23	1.660E-08	1.394E-07	1200
52.0	87	6.151E-08	5.176E-07	1200
54.0	253	1.726E-07	1.502E-06	1200
56.0	247	1.740E-07	1.461E-06	1200
58.0	405	2.854E-07	2.397E-06	1200
60.0	701	4.942E-07	4.151E-06	1200
62.0	732	5.156E-07	4.331E-06	1200
64.0	1017	7.302E-07	6.138E-06	1200
66.0	988	6.622E-07	5.613E-06	1200
68.0	1361	9.590E-07	8.056E-06	1200
70.0	1705	1.201E-06	1.009E-05	1200
72.0	2604	1.830E-06	1.541E-05	1200
74.0	1807	1.273E-06	1.069E-05	1200
76.0	1072	7.550E-07	6.302E-06	1200
78.0	709	4.999E-07	4.199E-06	1200
80.0	403	2.841E-07	2.387E-06	1200
82.0	205	1.449E-07	1.217E-06	1200
84.0	83	5.906E-08	4.961E-07	1200
86.0	41	2.955E-08	2.440E-07	1200
88.0	19	1.373E-08	1.153E-07	1200

CROSSWIND INTEGRATED= 3.553E+04 2.985E+03
SEC/36.0 1/M

TEST U-18 NOVEMBER 9, 1962 1255 TO 1355 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5' U= 8.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	F/U/D 1/SEC	DISTANCE METERS
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40.0	5	3.811E-09	3.218E-08	1600
42.0	1	0.000E+00	0.000E+00	1600
44.0	19	1.341E-08	1.126E-07	1600
46.0	6	4.740E-09	4.022E-08	1600
48.0	2	1.594E-09	1.341E-08	1600
50.0	27	1.947E-08	1.636E-07	1600
52.0	65	4.527E-08	3.862E-07	1600
54.0	167	1.178E-07	9.895E-07	1600
56.0	194	1.370E-07	1.150E-06	1600
58.0	148	1.047E-07	8.796E-07	1600
60.0	289	2.037E-07	1.711E-06	1600
62.0	632	4.457E-07	3.744E-06	1600
64.0	791	5.574E-07	4.682E-06	1600
66.0	974	6.860E-07	5.763E-06	1600
68.0	1000	7.049E-07	5.921E-06	1600
70.0	1034	7.285E-07	6.119E-06	1600
72.0	1143	8.051E-07	6.763E-06	1600
74.0	1061	7.077E-07	6.280E-06	1600
76.0	881	6.209E-07	5.216E-06	1600
78.0	565	2.576E-07	2.164E-06	1600
80.0	209	1.475E-07	1.239E-06	1600
82.0	142	1.006E-07	8.447E-07	1600
84.0	41	2.905E-08	2.440E-07	1600
86.0	9	4.345E-09	3.63E-08	1600
88.0	12	6.939E-09	7.509E-08	1600

CROSSWIND INTEGRATED= 3.629E+04 3.049E+03
SEC/36.0 1/M

UNSTABLE SERIES EXPERIMENT: 19 (U-19)
GROUND LEVEL SAMPLING 100-3200 M ARCS. A SIGNIFICANT PORTION OF
THE PLUME PASSED TO THE NORTH OF THE GRID.

TEST U-19 MARCH 15, 1963 1114 TO 1214 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
100M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	FU/G 1/SG.M	DISTANCE METERS
20.0	9	2.105E-09	3.809E-08	100
24.0	18	1.621E-08	7.618E-08	100
28.0	11	9.728E-09	4.571E-08	100
32.0	17	1.588E-08	7.237E-08	100
36.0	0	0.000E+00	0.000E+00	100
40.0	5	4.863E-09	2.286E-08	100
44.0	3	1.202E-09	1.524E-08	100
48.0	26	2.269E-08	1.067E-07	100
52.0	26	2.269E-08	1.067E-07	100
56.0	45	3.890E-08	1.828E-07	100
60.0	13	1.135E-08	5.333E-08	100
64.0	1	1.621E-09	7.618E-09	100
68.0	10	8.915E-09	4.190E-08	100

CROSSWIND INTEGRATED= 1.143E-06 SEC/SG.M
5.372E-06 1/M

TEST U-19 MARCH 15, 1963 1114 TO 1214 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	FU/G 1/SG.M	DISTANCE METERS
S 30.0	2303	1.991E-06	9.355E-06	200
34.0	2420	2.525E-06	1.187E-05	200
38.0	3120	2.497E-06	1.266E-05	200
42.0	2226	1.924E-06	9.043E-06	200
46.0	3492	3.451E-06	1.622E-05	200
50.0	4366	3.774E-06	1.774E-05	200
54.0	4547	3.924E-06	1.844E-05	200
T 58.0	4012	3.468E-06	1.630E-05	200
62.0	6476	5.598E-06	2.631E-05	200
66.0	3927	3.390E-06	1.595E-05	200
70.0	5609	4.848E-06	2.279E-05	200
74.0	6653	5.751E-06	2.703E-05	200
78.0	2859	2.471E-06	1.161E-05	200
82.0	2182	1.886E-06	8.864E-06	200
86.0	1623	1.403E-06	6.594E-06	200
90.0	365	3.161E-07	1.486E-06	200
94.0	676	5.843E-07	2.746E-06	200
98.0	30	2.593E-08	1.219E-07	200

CROSSWIND INTEGRATED= 6.986E-04 SEC/SG.M
7.283E-03 1/M

TEST U-19 MARCH 15, 1963 1114 TO 1214 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	FU/G 1/SG.M	DISTANCE METERS
28.0	6734	5.821E-06	2.736E-05	300
32.0	7987	6.904E-06	3.205E-05	300
36.0	7476	6.462E-06	3.037E-05	300
40.0	6699	5.790E-06	2.721E-05	300
F 44.0	3555	3.073E-06	1.444E-05	300
48.0	1594	1.344E-06	6.316E-06	300
52.0	3054	2.640E-06	1.241E-05	300
56.0	3741	3.234E-06	1.520E-05	300
60.0	4186	3.619E-06	1.701E-05	300
64.0	6172	5.335E-06	2.508E-05	300
68.0	4679	5.773E-06	2.713E-05	300
72.0	5856	5.061E-06	2.379E-05	300
76.0	4621	3.994E-06	1.877E-05	300
80.0	2130	1.841E-06	8.654E-06	300
84.0	2345	2.027E-06	9.527E-06	300
88.0	1365	1.180E-06	5.586E-06	300
92.0	948	8.202E-07	3.855E-06	300
96.0	270	2.342E-07	1.101E-06	300

CROSSWIND INTEGRATED= 1.165E-03 SEC/SG.M
6.413E-03 1/M

TEST U-19 MARCH 15, 1963 1114 TO 1214 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	FU/G 1/SG.M	DISTANCE METERS
14.0	8505	7.352E-06	3.455E-05	400
18.0	7094	6.132E-06	2.882E-05	400
38.0	3029	2.619E-06	1.231E-05	400
42.0	1848	1.597E-06	7.508E-06	400
46.0	736	6.342E-07	2.990E-06	400
50.0	1553	1.343E-06	6.312E-06	400
54.0	2748	2.375E-06	1.116E-05	400
58.0	4826	4.171E-06	1.961E-05	400
62.0	4821	4.167E-06	1.959E-05	400
66.0	3727	3.222E-06	1.514E-05	400
70.0	4353	3.743E-06	1.769E-05	400
74.0	4133	3.573E-06	1.679E-05	400
78.0	4186	3.619E-06	1.701E-05	400
82.0	1204	1.001E-06	4.891E-06	400
86.0	2394	2.073E-06	9.744E-06	400
90.0	1693	1.464E-06	6.879E-06	400
94.0	993	8.591E-07	4.038E-06	400
98.0	130	1.127E-07	5.295E-07	400
102.0	11	9.726E-09	4.571E-09	400

CROSSWIND INTEGRATED= 1.889E-03 SEC/SG.M
8.876E-03 1/M

TEST 1-19 MARCH 15, 1963 1114 TO 1214 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CM ² X10E+6	F/G SEC/CM ²	EU/G 1/SG.M	DISTANCE METERS
28.0	6792	5.871E-06	2.759E-05	500
32.0	7284	6.296E-06	2.959E-05	500
36.0	2561	2.214E-06	1.041E-05	500
40.0	1228	1.062E-06	4.990E-06	500
44.0	855	7.191E-07	3.474E-06	500
48.0	651	5.613E-07	2.647E-06	500
52.0	1951	1.647E-06	7.927E-06	500
56.0	3471	3.000E-06	1.410E-05	500
60.0	3086	2.667E-06	1.254E-05	500
64.0	4505	3.894E-06	1.830E-05	500
68.0	2413	2.086E-06	9.805E-06	500
72.0	2831	2.448E-06	1.150E-05	500
76.0	1282	1.109E-06	5.211E-06	500
80.0	1590	1.366E-06	6.422E-06	500
84.0	2044	1.767E-06	8.304E-06	500
88.0	1422	1.229E-06	5.779E-06	500
92.0	1084	9.377E-07	4.407E-06	500
96.0	422	3.655E-07	1.718E-06	500
100.0	30	2.593E-08	1.219E-07	500

CROSSWIND INTEGRATED= 1.373E-03 SEC/SG.M
A.452E-03 1/M

TEST 1-19 MARCH 15, 1963 1114 TO 1214 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CM ² X10E+6	F/G SEC/CM ²	EU/G 1/SG.M	DISTANCE METERS
30.0	3645	3.151E-06	1.481E-05	600
34.0	1620	1.400E-06	6.582E-06	600
38.0	654	7.383E-07	3.470E-06	600
42.0	960	8.299E-07	3.901E-06	600
46.0	311	2.691E-07	1.265E-06	600
50.0	965	8.348E-07	3.923E-06	600
54.0	1671	1.445E-06	6.792E-06	600
58.0	3154	2.726E-06	1.281E-05	600
62.0	3161	2.732E-06	1.284E-05	600
66.0	1923	1.662E-06	7.813E-06	600
70.0	1390	1.202E-06	5.649E-06	600
74.0	767	6.630E-07	3.116E-06	600
78.0	465	4.020E-07	1.889E-06	600
82.0	595	5.146E-07	2.419E-06	600
86.0	321	2.780E-07	1.307E-06	600
90.0	127	1.102E-07	5.181E-07	600
94.0	240	2.075E-07	9.752E-07	600
98.0	123	1.070E-07	5.028E-07	600

CROSSWIND INTEGRATED= 8.073E-04 SEC/SG.M
3.794E-03 1/M

TEST 1-19 MARCH 15, 1963 1114 TO 1214 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CM ² X10E+6	F/G SEC/CM ²	EU/G 1/SG.M	DISTANCE METERS
28.0	3061	2.646E-06	1.244E-05	800
31.0	1547	1.337E-06	6.285E-06	800
34.0	891	7.708E-07	3.623E-06	800
37.0	280	2.423E-07	1.139E-06	800
40.0	597	4.733E-07	2.225E-06	800
43.0	381	3.299E-07	1.550E-06	800
46.0	92	8.024E-08	3.771E-07	800
49.0	321	2.780E-07	1.307E-06	800
52.0	993	8.591E-07	4.038E-06	800
55.0	1284	1.110E-06	5.219E-06	800
58.0	838	7.246E-07	3.405E-06	800
61.0	1068	9.239E-07	4.342E-06	800
64.0	1471	1.272E-06	5.977E-06	800
67.0	1708	1.477E-06	6.940E-06	800
70.0	1078	9.320E-07	4.381E-06	800
73.0	765	6.613E-07	3.108E-06	800
76.0	335	2.901E-07	1.364E-06	800
79.0	396	3.428E-07	1.611E-06	800
82.0	499	4.320E-07	2.030E-06	800
85.0	1220	1.055E-06	4.960E-06	800
88.0	1328	1.148E-06	5.398E-06	800
91.0	544	4.709E-07	2.213E-06	800
94.0	135	1.167E-07	5.485E-07	800
97.0	69	5.997E-08	2.819E-07	800
100.0	25	2.188E-08	1.028E-07	800

CROSSWIND INTEGRATED= 7.563E-04 SEC/SG.M
3.555E-03 1/M

TEST U-19 MARCH 15, 1963 1114 TO 1214 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/O 1/SG.M	DISTANCE METERS
28.0	532	4.598E-07	2.161E-06	1200
30.0	681	5.891E-07	2.769E-06	1200
32.0	361	3.121E-07	1.467E-06	1200
34.0	311	2.695E-07	1.266E-06	1200
36.0	276	2.387E-07	1.122E-06	1200
38.0	179	1.553E-07	7.301E-07	1200
40.0	136	1.184E-07	5.564E-07	1200
42.0	64	5.588E-08	2.626E-07	1200
44.0	72	6.251E-08	2.938E-07	1200
46.0	73	6.346E-08	2.983E-07	1200
48.0	149	1.293E-07	6.076E-07	1200
50.0	299	2.584E-07	1.215E-06	1200
52.0	543	4.698E-07	2.208E-06	1200
54.0	174	1.511E-07	7.100E-07	1200
56.0	95	8.240E-08	3.873E-07	1200
58.0	136	1.179E-07	5.502E-07	1200
60.0	172	1.492E-07	7.011E-07	1200
62.0	199	1.729E-07	8.124E-07	1200
64.0	340	2.981E-07	1.382E-06	1200
66.0	303	2.674E-07	1.233E-06	1200
68.0	113	9.803E-08	4.607E-07	1200
70.0	176	1.525E-07	7.167E-07	1200
72.0	160	1.388E-07	6.522E-07	1200
74.0	133	1.151E-07	5.409E-07	1200
76.0	222	1.923E-07	9.037E-07	1200
78.0	73	6.393E-08	3.005E-07	1200
80.0	92	7.956E-08	3.739E-07	1200
82.0	18	1.610E-08	7.568E-08	1200
84.0	52	4.499E-08	2.114E-07	1200
86.0	30	2.652E-08	1.246E-07	1200
88.0	43	3.789E-08	1.781E-07	1200
90.0	12	1.042E-08	4.897E-08	1200
92.0	9	6.524E-09	4.006E-08	1200
94.0	35	3.031E-08	1.428E-07	1200
96.0	2	1.898E-09	8.903E-09	1200

CROSSWIND INTEGRATED= 2.274E-04 1.069E-03
SEC/SG.M 1/M

TEST U-19 MARCH 15, 1963 1114 TO 1214 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/O 1/SG.M	DISTANCE METERS
28.0	588	5.086E-07	2.390E-06	1600
30.0	160	1.388E-07	6.522E-07	1600
32.0	185	1.605E-07	7.545E-07	1600
34.0	144	1.250E-07	5.876E-07	1600
36.0	98	8.578E-08	4.006E-07	1600
38.0	63	5.446E-08	2.560E-07	1600
40.0	122	1.056E-07	4.963E-07	1600
42.0	105	9.140E-08	4.296E-07	1600
44.0	84	3.836E-08	1.803E-07	1600
46.0	69	6.014E-08	2.627E-07	1600
48.0	139	1.203E-07	5.653E-07	1600
50.0	83	7.198E-08	3.383E-07	1600
52.0	85	7.388E-08	3.472E-07	1600
54.0	69	6.014E-08	2.627E-07	1600
56.0	79	6.914E-08	3.250E-07	1600
58.0	81	7.056E-08	3.316E-07	1600
60.0	123	1.066E-07	5.008E-07	1600
62.0	148	1.283E-07	6.032E-07	1600
64.0	95	8.240E-08	3.873E-07	1600
66.0	91	7.909E-08	3.717E-07	1600
68.0	53	4.641E-08	2.181E-07	1600
70.0	66	5.730E-08	2.693E-07	1600
72.0	51	4.452E-08	2.092E-07	1600
74.0	83	7.198E-08	3.383E-07	1600
76.0	33	2.936E-08	1.380E-07	1600
78.0	31	2.699E-08	1.269E-07	1600
80.0	86	7.435E-08	3.494E-07	1600
82.0	30	2.652E-08	1.246E-07	1600
84.0	61	5.351E-08	2.515E-07	1600
86.0	45	3.931E-08	1.847E-07	1600
88.0	10	8.998E-09	4.229E-08	1600
90.0	24	2.131E-08	1.002E-07	1600
92.0	31	2.747E-08	1.291E-07	1600
94.0	9	8.520E-09	4.006E-08	1600
96.0	113	9.803E-08	4.607E-07	1600
98.0	30	2.652E-08	1.246E-07	1600
100.0	37	3.268E-08	1.536E-07	1600
102.0	77	6.677E-08	3.138E-07	1600
104.0	16	1.468E-08	6.900E-08	1600
106.0	20	1.752E-08	8.235E-08	1600
108.0	46	3.978E-08	1.870E-07	1600
110.0	2	2.368E-09	1.113E-08	1600
112.0	10	8.998E-09	4.229E-08	1600
114.0	71	6.204E-08	2.916E-07	1600
116.0	55	4.783E-08	2.248E-07	1600
118.0	18	1.610E-08	7.568E-08	1600
120.0	8	7.577E-09	3.561E-08	1600
122.0	57	4.972E-08	2.337E-07	1600

CROSSWIND INTEGRATED= 1.819E-04 8.551E-04
SEC/SG.M 1/M

TEST U-19 MARCH 15, 1963 1114 TO 1214 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 3200A ALC SAMPLER HT 1.5M U= 4.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CU.M X10E+6	F/D SEC/CU.M	FU/D 1/SEC.M	DISTANCE METERS
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60.0	36	3.151E-08	1.481E-07	3200
61.0	7	4.199E-09	2.913E-08	3200
62.0	2	1.808E-09	8.498E-09	3200
63.0	23	1.989E-08	9.347E-08	3200
3 64.0	9	8.523E-09	4.006E-08	3200
65.0	5	4.391E-09	2.064E-08	3200
66.0	13	1.186E-08	5.341E-08	3200
67.0	28	2.480E-08	1.165E-07	3200
3 68.0	2	2.583E-09	1.214E-08	3200
69.0	25	2.170E-08	1.020E-07	3200
70.0	25	2.170E-08	1.020E-07	3200
71.0	15	1.303E-08	6.312E-08	3200
72.0	17	1.550E-08	7.284E-08	3200
73.0	8	7.212E-09	3.399E-08	3200
74.0	10	8.782E-09	4.127E-08	3200
75.0	8	6.974E-09	3.278E-08	3200
T 76.0	11	9.557E-09	4.892E-08	3200
77.0	17	1.550E-08	7.284E-08	3200
4 78.0	8	7.789E-09	3.642E-08	3200
79.0	15	1.369E-08	6.434E-08	3200
7 80.0	0	5.166E-10	2.428E-09	3200
5 81.0	15	1.383E-08	6.312E-08	3200
82.0	18	1.627E-08	7.648E-08	3200
83.0	7	6.715E-09	3.156E-08	3200
84.0	1	1.033E-09	4.856E-09	3200
85.0	11	1.007E-08	4.734E-08	3200
3 86.0	23	2.015E-08	9.469E-08	3200
3 87.0	12	1.111E-08	5.220E-08	3200
3 88.0	5	4.907E-09	2.306E-08	3200
89.0	24	2.092E-08	9.833E-08	3200
90.0	7	6.457E-09	3.035E-08	3200
5 91.0	2	1.808E-09	8.498E-09	3200
92.0	4	3.870E-09	1.821E-08	3200
93.0	1	1.033E-09	4.856E-09	3200
94.0	15	1.343E-08	6.312E-08	3200
3 95.0	29	2.583E-08	1.214E-07	3200
4 96.0	0	5.166E-10	2.428E-09	3200
97.0	6	5.981E-09	2.792E-08	3200
98.0	10	9.040E-09	4.249E-08	3200
99.0	44	3.848E-08	1.809E-07	3200
100.0	10	8.782E-09	4.127E-08	3200

CROSSWIND INTEGRATED= 2.643E-05 1.242E-04
 SEC/SEC.M 1/M

UNSTABLE SERIES EXPERIMENT: 20 (U-20)
GROUND LEVEL SAMPLING 100-1600 M ARCS.

TEST U-20 MARCH 29, 1963 1139 TO 1229 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
100M ARC SAMPLER HT 1.5M U=10.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/G SEC/CM ²	FL/G 1/SEC ²	DISTANCE METERS
24.0	11	1.051E-08	1.567E-07	100
28.0	3840	5.200E-06	5.617E-05	100
32.0	12	1.692E-08	1.828E-07	100
36.0	7415	1.002E-05	1.682E-04	100
40.0	980	1.298E-06	1.001E-05	100
44.0	7873	1.068E-05	1.149E-04	100
48.0	279	3.772E-07	4.073E-06	100
52.0	368	4.980E-07	5.379E-06	100
56.0	887	1.199E-06	1.295E-05	100
60.0	29	4.030E-08	4.352E-07	100
64.0	57	7.817E-08	8.443E-07	100
68.0	20	3.549E-08	4.265E-07	100
72.0	42	5.722E-08	6.180E-07	100

CROSSWIND INTEGRATED= 2.058E-08 2.223E-03
SEC/SEC² 1/M

TEST U-20 MARCH 29, 1963 1139 TO 1229 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC SAMPLER HT 1.5M U=10.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/G SEC/CM ²	FL/G 1/SEC ²	DISTANCE METERS
38.0	7	9.671E-09	1.044E-07	200
42.0	1790	2.431E-06	2.625E-05	200
46.0	689	9.320E-07	1.007E-05	200
50.0	629	8.510E-07	9.191E-06	200
54.0	120	1.748E-07	1.889E-06	200
58.0	4487	6.044E-06	6.550E-05	200
62.0	88	1.193E-07	1.288E-06	200
66.0	30	4.110E-08	4.439E-07	200
70.0	17	2.418E-08	2.611E-07	200
74.0	23	3.220E-08	3.481E-07	200

CROSSWIND INTEGRATED= 1.491E-08 1.610E-03
SEC/SEC² 1/M

TEST U-20 MARCH 29, 1963 1139 TO 1229 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M U=10.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/G SEC/CM ²	FL/G 1/SEC ²	DISTANCE METERS
28.0	118	1.648E-07	1.732E-06	300
32.0	11	1.531E-08	1.654E-07	300
36.0	302	4.054E-07	4.421E-06	300
40.0	27	3.707E-08	4.008E-07	300
44.0	929	1.256E-06	1.357E-05	300
48.0	222	3.006E-07	3.246E-06	300
52.0	493	6.673E-07	7.207E-06	300
56.0	957	1.294E-06	1.398E-05	300
60.0	1820	2.460E-06	2.657E-05	300
64.0	865	1.169E-06	1.263E-05	300
68.0	16	2.257E-08	2.437E-07	300
72.0	11	1.531E-08	1.654E-07	300

CROSSWIND INTEGRATED= 1.635E-08 1.766E-03
SEC/SEC² 1/M

TEST U-20 MARCH 29, 1963 1139 TO 1229 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U=10.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/G SEC/CM ²	FL/G 1/SEC ²	DISTANCE METERS
C 30.0	27	3.707E-08	4.004E-07	400
C 34.0	81	1.096E-07	1.184E-06	400
C 38.0	174	2.361E-07	2.550E-06	400
C 42.0	205	2.772E-07	2.994E-06	400
46.0	464	6.278E-07	6.780E-06	400
50.0	992	1.342E-06	1.449E-05	400
54.0	901	1.219E-06	1.316E-05	400
58.0	992	1.342E-06	1.449E-05	400
62.0	661	8.946E-07	9.661E-06	400
66.0	199	2.492E-07	2.907E-06	400

CROSSWIND INTEGRATED= 1.774E-08 1.916E-03
SEC/SEC² 1/M

TEST U-20 MARCH 29, 1963 1139 TO 1229 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
500M ARC SAMPLER HT 1.5M U=10.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/G SEC/CM ²	FL/G 1/SEC ²	DISTANCE METERS
36.0	17	2.337E-08	2.524E-07	500
40.0	158	2.031E-07	2.193E-06	500
44.0	446	6.036E-07	6.519E-06	500
48.0	1359	1.837E-06	1.984E-05	500
52.0	1981	2.677E-06	2.891E-05	500
56.0	1589	2.094E-06	2.261E-05	500
60.0	1078	1.457E-06	1.574E-05	500
64.0	524	7.092E-07	7.659E-06	500
68.0	141	1.918E-07	2.071E-06	500
72.0	5	7.253E-09	7.833E-08	500

CROSSWIND INTEGRATED= 3.422E-08 3.696E-03
SEC/SEC² 1/M

TEST U-20 MARCH 29, 1963 1139 TO 1229 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLER HT 1.5M U=10.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/G SEC/CM ²	FL/G 1/SEC ²	DISTANCE METERS
38.0	20	2.821E-08	3.046E-07	600
42.0	137	1.842E-07	2.011E-06	600
46.0	1271	1.718E-06	1.856E-05	600
50.0	2290	3.095E-06	3.342E-05	600
54.0	2587	3.496E-06	3.776E-05	600
58.0	2113	2.856E-06	3.085E-05	600
62.0	1272	1.719E-06	1.857E-05	600
66.0	192	2.595E-07	2.803E-06	600

CROSSWIND INTEGRATED= 5.595E-08 6.043E-03
SEC/SEC² 1/M

TEST U-20 MARCH 29, 1963 1139 TO 1229 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U=10.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/R SEC/CM ²	FU/R 1/SQ.M	DISTANCE METERS
40.0	32	4.432E-04	4.787E-07	800
43.0	398	5.391E-07	5.823E-06	800
46.0	975	1.318E-06	1.429E-05	800
49.0	1533	2.073E-06	2.239E-05	800
52.0	2576	3.481E-06	3.760E-05	800
55.0	2231	3.016E-06	3.257E-05	800
58.0	2106	2.846E-06	3.074E-05	800
61.0	1871	2.530E-06	2.732E-05	800
64.0	483	6.528E-07	7.050E-06	800
67.0	6	8.865E-09	9.570E-08	800
70.0	4	6.447E-09	6.963E-08	800

CROSSWIND INTEGRATED= 6.918E-04 7.472E-03
SEC/SQ.M 1/M

TEST U-20 MARCH 29, 1963 1139 TO 1229 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U=10.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/R SEC/CM ²	FU/R 1/SQ.M	DISTANCE METERS
38.0	3	4.300E-09	4.644E-08	1200
40.0	26	3.601E-08	3.889E-07	1200
42.0	193	1.940E-07	2.095E-06	1200
44.0	242	3.547E-07	3.831E-06	1200
46.0	472	6.380E-07	6.890E-06	1200
48.0	783	1.059E-06	1.144E-05	1200
50.0	1440	1.947E-06	2.103E-05	1200
52.0	1294	1.749E-06	1.889E-05	1200
54.0	1607	2.172E-06	2.346E-05	1200
56.0	1351	1.826E-06	1.972E-05	1200
58.0	1235	1.670E-06	1.803E-05	1200
60.0	885	1.196E-06	1.292E-05	1200
62.0	322	4.353E-07	4.702E-06	1200
64.0	191	2.585E-07	2.792E-06	1200
66.0	5	7.524E-09	8.126E-08	1200
68.0	3	4.300E-09	4.644E-08	1200
70.0	4	5.912E-09	6.385E-08	1200

CROSSWIND INTEGRATED= 5.679E-04 6.134E-03
SEC/SQ.M 1/M

TEST U-20 MARCH 29, 1963 1139 TO 1229 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U=10.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/R SEC/CM ²	FU/R 1/SQ.M	DISTANCE METERS
8.0	3	4.837E-09	5.224E-08	1600
10.0	10	1.451E-08	1.567E-07	1600
22.0	25	3.493E-08	3.773E-07	1600
T 24.0	0	0.000E+00	0.000E+00	1600
T 26.0	11	1.559E-08	1.683E-07	1600
38.0	5	8.062E-09	8.707E-08	1600
40.0	7	9.674E-09	1.045E-07	1600
42.0	50	6.772E-08	7.314E-07	1600
44.0	149	2.015E-07	2.177E-06	1600
46.0	353	4.773E-07	5.154E-06	1600
T 48.0	554	7.492E-07	8.091E-06	1600
50.0	955	1.291E-06	1.394E-05	1600
52.0	1048	1.362E-06	1.471E-05	1600
54.0	1610	2.176E-06	2.350E-05	1600
56.0	1280	1.731E-06	1.869E-05	1600
58.0	893	1.207E-06	1.304E-05	1600
T 60.0	567	7.669E-07	8.283E-06	1600
T 62.0	349	4.730E-07	5.108E-06	1600
64.0	75	1.021E-07	1.103E-06	1600

CROSSWIND INTEGRATED= 6.074E-04 6.560E-03
SEC/SQ.M 1/M

UNSTABLE SERIES EXPERIMENT: 21 (U-21)
GROUND LEVEL SAMPLING 100-1600 M ARCS. THE TRACER WAS NOT
DETECTED ON THE 100 OR 200 M ARCS.

TEST U-21 APRIL 8, 1963 1352 TO 1452 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M U= 8.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SEC	DISTANCE METERS
28.0	6	6.224E-08	5.166E-08	300
32.0	13	1.245E-08	1.033E-07	300
36.0	9	8.299E-09	6.888E-08	300
40.0	95	8.645E-08	7.175E-07	300
44.0	30	2.766E-08	2.296E-07	300
48.0	13	1.245E-08	1.033E-07	300

CROSSWIND INTEGRATED= 3.216E-06 2.669E-05
SEC/90.M 1/M

TEST U-21 APRIL 8, 1963 1352 TO 1452 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 8.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SEC	DISTANCE METERS
18.0	15	1.383E-08	1.148E-07	400
22.0	121	1.107E-07	9.184E-07	400
26.0	90	8.230E-08	6.831E-07	400
30.0	213	1.943E-07	1.613E-06	400
34.0	433	3.942E-07	3.272E-06	400
38.0	749	6.812E-07	5.654E-06	400
42.0	594	5.438E-07	4.489E-06	400
46.0	212	1.938E-07	1.601E-06	400
50.0	33	3.043E-08	2.526E-07	400
54.0	22	2.006E-08	1.665E-07	400

CROSSWIND INTEGRATED= 6.313E-05 5.240E-04
SEC/90.M 1/M

TEST U-21 APRIL 8, 1963 1352 TO 1452 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
500M ARC SAMPLER HT 1.5M U= 8.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SEC	DISTANCE METERS
12.0	6	5.535E-09	4.592E-08	500
16.0	14	1.314E-08	1.091E-07	500
20.0	388	3.530E-07	2.933E-06	500
24.0	291	2.609E-07	2.198E-06	500
28.0	434	3.949E-07	3.278E-06	500
32.0	1308	1.190E-06	9.873E-06	500
36.0	1427	1.361E-06	1.130E-05	500
40.0	1584	1.444E-06	1.199E-05	500
44.0	1139	1.036E-06	8.599E-06	500
48.0	774	7.040E-07	5.843E-06	500
52.0	206	1.881E-07	1.561E-06	500
56.0	20	1.967E-08	1.550E-07	500

CROSSWIND INTEGRATED= 2.434E-04 2.020E-03
SEC/90.M 1/M

TEST U-21 APRIL 8, 1963 1352 TO 1452 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLER HT 1.5M U= 8.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SEC	DISTANCE METERS
14.0	64	5.878E-08	4.879E-07	600
18.0	222	2.026E-07	1.682E-06	600
22.0	276	2.510E-07	2.084E-06	600
26.0	693	6.307E-07	5.235E-06	600
30.0	1249	1.136E-06	9.431E-06	600
34.0	1563	1.421E-06	1.180E-05	600
38.0	3139	2.854E-06	2.369E-05	600
42.0	1482	1.348E-06	1.119E-05	600
46.0	2126	1.933E-06	1.604E-05	600
50.0	674	6.127E-07	5.086E-06	600
54.0	352	3.207E-07	2.658E-06	600

CROSSWIND INTEGRATED= 4.511E-04 3.744E-03
SEC/90.M 1/M

TEST U-21 APRIL 8, 1963 1352 TO 1452 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 8.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SEC	DISTANCE METERS
13.0	17	1.591E-08	1.320E-07	800
16.0	229	2.089E-07	1.734E-06	800
19.0	369	3.361E-07	2.790E-06	800
22.0	446	3.700E-07	3.071E-06	800
25.0	1700	1.546E-06	1.283E-05	800
28.0	1844	1.677E-06	1.392E-05	800
31.0	1977	1.797E-06	1.492E-05	800
34.0	3149	2.899E-06	2.406E-05	800
37.0	3426	3.115E-06	2.585E-05	800
40.0	3109	2.827E-06	2.347E-05	800
43.0	1646	1.497E-06	1.242E-05	800
46.0	1511	1.374E-06	1.141E-05	800
49.0	1266	1.151E-06	9.557E-06	800
52.0	868	7.898E-07	6.555E-06	800
55.0	361	3.285E-07	2.727E-06	800

CROSSWIND INTEGRATED= 8.349E-04 6.930E-03
SEC/90.M 1/M

TEST U-21 APRIL 8, 1963 1352 TO 1452 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 8.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/W SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
12.0	4	3.850E-09	3.196E-08	1200
14.0	19	1.797E-08	1.491E-07	1200
16.0	77	7.059E-08	5.859E-07	1200
18.0	134	1.224E-07	1.016E-06	1200
20.0	110	1.005E-07	8.344E-07	1200
22.0	384	3.495E-07	2.901E-06	1200
24.0	679	6.178E-07	5.127E-06	1200
26.0	1300	1.182E-06	9.811E-06	1200
28.0	1086	9.874E-07	8.195E-06	1200
30.0	1731	1.574E-06	1.307E-05	1200
32.0	1896	1.724E-06	1.431E-05	1200
34.0	2727	2.480E-06	2.058E-05	1200
36.0	1452	1.321E-06	1.096E-05	1200
38.0	1857	1.689E-06	1.402E-05	1200
40.0	2453	2.230E-06	1.851E-05	1200
42.0	1546	1.406E-06	1.167E-05	1200
44.0	1458	1.326E-06	1.100E-05	1200
46.0	1394	1.185E-06	9.839E-06	1200
48.0	1148	1.044E-06	8.664E-06	1200
50.0	749	6.815E-07	5.656E-06	1200
52.0	896	8.150E-07	6.764E-06	1200
54.0	258	2.353E-07	1.953E-06	1200
56.0	7	6.845E-09	5.681E-08	1200
60.0	7	6.845E-09	5.681E-08	1200

CROSSWIND INTEGRATED= 8.871E-04 7.365E-03
SEC/SQ.M 1/M

TEST U-21 APRIL 8, 1963 1352 TO 1452 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 8.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
10.0	7	6.845E-09	5.681E-08	1600
12.0	20	1.840E-08	1.527E-07	1600
14.0	9	8.556E-09	7.102E-08	1600
16.0	17	1.626E-08	1.349E-07	1600
18.0	57	5.219E-08	4.332E-07	1600
20.0	92	8.385E-08	6.960E-07	1600
22.0	424	1.855E-07	3.199E-06	1600
24.0	487	4.432E-07	3.679E-06	1600
26.0	1125	1.023E-06	8.494E-06	1600
28.0	727	6.610E-07	5.486E-06	1600
30.0	971	8.830E-07	7.329E-06	1600
32.0	1188	1.081E-06	8.969E-06	1600
34.0	1503	1.367E-06	1.134E-05	1600
36.0	1895	1.723E-06	1.430E-05	1600
38.0	1437	1.307E-06	1.084E-05	1600
40.0	864	7.859E-07	6.523E-06	1600
42.0	930	8.458E-07	7.020E-06	1600
44.0	903	8.214E-07	6.818E-06	1600
46.0	467	4.248E-07	3.526E-06	1600
48.0	561	5.104E-07	4.236E-06	1600
50.0	583	5.301E-07	4.399E-06	1600
52.0	441	4.017E-07	3.334E-06	1600
54.0	9	8.988E-09	7.457E-08	1600
56.0	8	8.128E-09	6.747E-08	1600
58.0	12	1.112E-08	9.232E-08	1600
60.0	2	2.567E-09	2.131E-08	1600
62.0	0	0.000E+00	0.000E+00	1600
64.0	5	5.134E-09	4.261E-08	1600
66.0	0	0.000E+00	0.000E+00	1600
68.0	1	1.711E-09	1.420E-08	1600
70.0	18	1.668E-08	1.385E-07	1600

CROSSWIND INTEGRATED= 7.503E-04 6.227E-03
SEC/SQ.M 1/M

UNSTABLE SERIES EXPERIMENT: 22 (U-22)
GROUND LEVEL SAMPLING 100-1600 M ARCS.

TEST U-22 APRIL 16, 1963 1010 TO 1107 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
100M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	F/D 1/SG.M	DISTANCE METERS
28.0	1249	1.154E-06	5.540E-06	100
32.0	240	2.191E-07	1.052E-06	100
36.0	140	1.731E-07	8.306E-07	100
40.0	0	0.000E+00	0.000E+00	100
44.0	133	1.210E-07	5.810E-07	100
48.0	508	4.426E-07	2.218E-06	100
52.0	1004	9.130E-07	4.382E-06	100
56.0	448	4.075E-07	1.956E-06	100
60.0	351	3.197E-07	1.534E-06	100
64.0	141	1.287E-07	6.179E-07	100

CROSSWIND INTEGRATED= 2.722E-05 1.306E-04
SEC/SG.M 1/M

TEST U-22 APRIL 16, 1963 1010 TO 1107 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	F/D 1/SG.M	DISTANCE METERS
30.0	2587	2.392E-06	1.129E-05	200
34.0	2470	2.246E-06	1.078E-05	200
38.0	3306	3.006E-06	1.443E-05	200
42.0	3160	2.873E-06	1.379E-05	200
46.0	3510	3.192E-06	1.532E-05	200
50.0	4745	4.314E-06	2.071E-05	200
54.0	2558	2.328E-06	1.116E-05	200
58.0	2326	2.115E-06	1.015E-05	200
62.0	481	4.382E-07	2.103E-06	200
66.0	683	6.214E-07	2.983E-06	200
70.0	658	5.984E-07	2.872E-06	200
74.0	17	1.620E-08	7.774E-08	200

CROSSWIND INTEGRATED= 3.365E-04 1.615E-03
SEC/SG.M 1/M

TEST U-22 APRIL 16, 1963 1010 TO 1107 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	F/D 1/SG.M	DISTANCE METERS
28.0	3344	3.041E-06	1.460E-05	300
32.0	5218	4.744E-06	2.277E-05	300
36.0	6025	5.477E-06	2.629E-05	300
40.0	3579	3.254E-06	1.562E-05	300
44.0	4261	5.692E-06	2.732E-05	300
48.0	4942	4.493E-06	2.157E-05	300
52.0	4142	3.766E-06	1.808E-05	300
56.0	1245	1.132E-06	5.434E-06	300
60.0	1353	1.230E-06	5.905E-06	300
64.0	1009	9.181E-07	4.407E-06	300
68.0	781	7.101E-07	3.408E-06	300
72.0	124	1.134E-07	5.442E-07	300
76.0	185	1.688E-07	8.102E-07	300
80.0	272	2.481E-07	1.191E-06	300
84.0	385	3.504E-07	1.662E-06	300
88.0	119	1.083E-07	5.197E-07	300
92.0	953	8.670E-07	4.161E-06	300
96.0	949	8.635E-07	4.185E-06	300
100.0	51	4.680E-08	2.251E-07	300

CROSSWIND INTEGRATED= 7.796E-04 3.742E-03
SEC/SG.M 1/M

TEST U-22 APRIL 16, 1963 1010 TO 1107 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	F/D 1/SG.M	DISTANCE METERS
30.0	2641	2.438E-06	1.170E-05	400
34.0	3893	3.531E-06	1.695E-05	400
38.0	4786	4.351E-06	2.088E-05	400
42.0	5219	4.745E-06	2.278E-05	400
46.0	6557	5.916E-06	2.840E-05	400
50.0	7171	6.520E-06	3.129E-05	400
54.0	4040	3.677E-06	1.765E-05	400
58.0	2244	2.077E-06	9.988E-06	400
62.0	1742	1.603E-06	7.693E-06	400
66.0	1093	9.980E-07	4.771E-06	400
70.0	605	5.507E-07	2.643E-06	400
74.0	504	5.405E-07	2.594E-06	400
78.0	2088	1.895E-06	9.096E-06	400
82.0	902	8.201E-07	3.936E-06	400
86.0	188	1.713E-07	8.225E-07	400
90.0	106	9.718E-08	4.665E-07	400
94.0	456	4.151E-07	1.993E-06	400
98.0	551	5.012E-07	2.406E-06	400
102.0	238	2.165E-07	1.039E-06	400

CROSSWIND INTEGRATED= 1.147E-03 5.503E-03
SEC/SG.M 1/M

TEST U-22 APRIL 16, 1963 1010 TO 1107 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CH,M X10E+6	E/W SEC/CH,M	FU/Q 1/SG,M	DISTANCE METERS
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28.0	993	0.036E-07	4.337E-06	500
32.0	1226	1.115E-06	5.352E-06	500
36.0	2602	2.366E-06	1.135E-05	500
40.0	4916	4.469E-06	2.145E-05	500
44.0	5532	5.030E-06	2.414E-05	500
48.0	6730	6.119E-06	2.937E-05	500
52.0	4354	3.959E-06	1.900E-05	500
56.0	3382	3.075E-06	1.476E-05	500
60.0	2698	2.453E-06	1.178E-05	500
64.0	1711	1.556E-06	7.468E-06	500
68.0	529	4.816E-07	2.312E-06	500
72.0	417	3.793E-07	1.821E-06	500
76.0	1234	1.122E-06	5.385E-06	500
80.0	903	8.218E-07	3.945E-06	500
84.0	475	4.322E-07	2.075E-06	500
88.0	151	1.381E-07	6.629E-07	500
92.0	108	9.889E-08	4.747E-07	500
96.0	391	3.563E-07	1.710E-06	500
100.0	252	2.293E-07	1.101E-06	500
104.0	116	1.057E-07	5.074E-07	500

CROSSWIND INTEGRATED= 1.229E-03 5.900E-03
SEC/SG,M 1/M

TEST U-22 APRIL 16, 1963 1010 TO 1107 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CH,M X10E+6	E/W SEC/CH,M	FU/Q 1/SG,M	DISTANCE METERS
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30.0	637	5.707E-07	2.782E-06	600
34.0	848	7.715E-07	3.703E-06	600
38.0	2219	2.018E-06	9.685E-06	600
42.0	6102	5.568E-06	2.663E-05	600
46.0	6921	6.292E-06	3.020E-05	600
50.0	7372	6.702E-06	3.217E-05	600
54.0	4719	4.290E-06	2.059E-05	600
58.0	2935	2.669E-06	1.281E-05	600
62.0	2097	1.907E-06	9.153E-06	600
66.0	937	8.525E-07	4.092E-06	600
70.0	423	3.853E-07	1.850E-06	600
74.0	930	8.456E-07	4.059E-06	600
78.0	931	8.465E-07	4.063E-06	600
82.0	576	5.243E-07	2.516E-06	600
86.0	286	2.600E-07	1.248E-06	600
90.0	74	6.734E-08	3.233E-07	600
94.0	107	9.863E-08	4.706E-07	600
98.0	573	5.217E-07	2.504E-06	600
102.0	158	1.441E-07	6.915E-07	600
106.0	84	7.672E-08	3.683E-07	600

CROSSWIND INTEGRATED= 1.483E-03 7.117E-03
SEC/SG,M 1/M

TEST U-22 APRIL 16, 1963 1010 TO 1107 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CH,M X10E+6	E/W SEC/CH,M	FU/Q 1/SG,M	DISTANCE METERS
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28.0	187	1.705E-07	8.180E-07	800
31.0	208	1.892E-07	9.084E-07	800
34.0	238	2.165E-07	1.039E-06	800
37.0	478	4.308E-07	2.087E-06	800
40.0	1090	9.914E-07	4.759E-06	800
43.0	2525	2.206E-06	1.102E-05	800
46.0	3757	3.416E-06	1.640E-05	800
49.0	4198	3.816E-06	1.832E-05	800
52.0	4314	3.922E-06	1.883E-05	800
55.0	1801	1.674E-06	8.036E-06	800
58.0	1083	9.854E-07	4.730E-06	800
61.0	1193	1.085E-06	5.209E-06	800
64.0	460	4.186E-07	2.009E-06	800
67.0	556	5.044E-07	2.431E-06	800
70.0	286	2.609E-07	1.252E-06	800
73.0	248	2.259E-07	1.084E-06	800
76.0	390	3.546E-07	1.702E-06	800
79.0	460	4.186E-07	2.009E-06	800
82.0	341	3.103E-07	1.489E-06	800
85.0	184	1.679E-07	8.061E-07	800
88.0	59	5.371E-08	2.578E-07	800
91.0	76	6.990E-08	3.355E-07	800
94.0	141	1.287E-07	6.179E-07	800
97.0	413	3.759E-07	1.804E-06	800
100.0	264	2.404E-07	1.154E-06	800
103.0	115	1.049E-07	5.033E-07	800

CROSSWIND INTEGRATED= 9.565E-04 4.591E-03
SEC/SG,M 1/M

TEST U-22 APRIL 16, 1963 1010 TO 1107 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
28.0	36	3.288E-08	1.578E-07	1200
30.0	69	6.276E-08	3.013E-07	1200
32.0	82	7.472E-08	3.586E-07	1200
34.0	59	5.429E-08	2.606E-07	1200
36.0	103	9.364E-08	4.495E-07	1200
38.0	172	1.564E-07	7.507E-07	1200
40.0	215	1.958E-07	9.396E-07	1200
42.0	316	2.879E-07	1.382E-06	1200
44.0	415	3.781E-07	1.815E-06	1200
46.0	735	6.690E-07	3.211E-06	1200
48.0	719	6.545E-07	3.142E-06	1200
50.0	611	5.559E-07	2.668E-06	1200
52.0	744	6.769E-07	3.249E-06	1200
54.0	507	4.612E-07	2.214E-06	1200
56.0	556	5.056E-07	2.427E-06	1200
58.0	283	2.580E-07	1.238E-06	1200
60.0	252	2.296E-07	1.102E-06	1200
62.0	213	1.938E-07	9.301E-07	1200
64.0	89	8.169E-08	3.921E-07	1200
66.0	32	2.989E-08	1.435E-07	1200
68.0	48	4.433E-08	2.128E-07	1200
70.0	59	5.429E-08	2.606E-07	1200
72.0	50	4.583E-08	2.200E-07	1200
74.0	24	2.192E-08	1.052E-07	1200
76.0	15	1.595E-08	6.695E-08	1200
78.0	64	5.828E-08	2.797E-07	1200
80.0	42	3.815E-08	1.841E-07	1200
82.0	94	8.617E-08	4.136E-07	1200
84.0	52	4.732E-08	2.271E-07	1200
86.0	29	2.640E-08	1.267E-07	1200
88.0	30	2.740E-08	1.315E-07	1200
90.0	36	3.337E-08	1.602E-07	1200
92.0	9	8.464E-09	4.065E-08	1200
94.0	18	1.684E-08	7.890E-08	1200
96.0	49	4.533E-08	2.176E-07	1200
98.0	15	1.395E-08	6.695E-08	1200

CROSSWIND INTEGRATED= 2.611E-04 1.253E-03
SEC/SQ.M 1/M

TEST U-22 APRIL 16, 1963 1010 TO 1107 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
32.0	14	1.295E-08	6.216E-08	1600
34.0	20	1.893E-08	9.085E-08	1600
36.0	38	3.487E-08	1.674E-07	1600
38.0	35	3.148E-08	1.530E-07	1600
40.0	41	3.786E-08	1.817E-07	1600
42.0	66	6.077E-08	2.917E-07	1600
44.0	72	6.575E-08	3.156E-07	1600
46.0	129	1.176E-07	5.643E-07	1600
48.0	178	1.619E-07	7.770E-07	1600
50.0	174	1.589E-07	7.627E-07	1600
52.0	166	1.510E-07	7.268E-07	1600
54.0	229	2.087E-07	1.002E-06	1600
56.0	271	2.471E-07	1.186E-06	1600
58.0	93	8.518E-08	4.088E-07	1600
60.0	81	7.422E-08	3.562E-07	1600
62.0	66	6.077E-08	2.917E-07	1600
64.0	70	6.426E-08	3.084E-07	1600
66.0	19	1.793E-08	8.607E-08	1600
68.0	22	2.042E-08	9.803E-08	1600
70.0	13	1.195E-08	5.738E-08	1600
72.0	14	1.345E-08	6.455E-08	1600
74.0	26	2.441E-08	1.172E-07	1600
76.0	32	2.989E-08	1.435E-07	1600
78.0	18	1.644E-08	7.890E-08	1600
80.0	12	1.096E-08	5.260E-08	1600
82.0	26	2.391E-08	1.148E-07	1600
84.0	25	2.341E-08	1.124E-07	1600
86.0	14	1.345E-08	6.455E-08	1600
88.0	15	1.445E-08	6.934E-08	1600
90.0	10	9.464E-09	4.543E-08	1600
92.0	11	1.046E-08	5.021E-08	1600

CROSSWIND INTEGRATED= 1.024E-04 4.915E-04
SEC/SQ.M 1/M

UNSTABLE SERIES EXPERIMENT: 23 (U-23)
GROUND LEVEL SAMPLING 100-1600 M ARCS.

TEST U-23 APRIL 30, 1963 0851 TO 0938 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
100M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/G SEC/CM ²	FU/G 1/SG.M	DISTANCE METERS
68.0	16	1.871E-08	8.234E-08	100
72.0	24	2.703E-08	1.189E-07	100
76.0	12	1.351E-08	5.946E-08	100
80.0	25	2.807E-08	1.235E-07	100
84.0	26	2.911E-08	1.281E-07	100
88.0	23	2.599E-08	1.104E-07	100

CROSSWIND INTEGRATED= 9.943E-07 4.375E-06
SEC/SG.M 1/M

TEST U-23 APRIL 30, 1963 0851 TO 0938 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/G SEC/CM ²	FU/G 1/SG.M	DISTANCE METERS
74.0	15	1.767E-08	7.776E-08	200
78.0	8	2.356E-09	4.117E-08	200
82.0	10	1.144E-08	5.032E-08	200
86.0	5	6.238E-09	2.745E-08	200
90.0	0	0.000E+00	0.000E+00	200
94.0	22	2.495E-08	1.098E-07	200
98.0	0	0.000E+00	0.000E+00	200
102.0	275	3.056E-07	1.345E-06	200
106.0	751	9.327E-07	3.664E-06	200

CROSSWIND INTEGRATED= 1.687E-05 7.421E-05
SEC/SG.M 1/M

TEST U-23 APRIL 30, 1963 0851 TO 0938 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/G SEC/CM ²	FU/G 1/SG.M	DISTANCE METERS
72.0	17	1.975E-08	8.691E-08	300
76.0	42	4.678E-08	2.058E-07	300
80.0	109	1.216E-07	5.352E-07	300
84.0	356	3.950E-07	1.738E-06	300
88.0	293	3.250E-07	1.432E-06	300
92.0	257	2.859E-07	1.250E-06	300
96.0	856	9.491E-07	4.176E-06	300
100.0	2122	2.354E-06	1.036E-05	300
104.0	3564	3.951E-06	1.739E-05	300
108.0	886	9.824E-07	4.323E-06	300
112.0	486	5.416E-07	2.383E-06	300

CROSSWIND INTEGRATED= 2.089E-04 9.190E-04
SEC/SG.M 1/M

TEST U-23 APRIL 30, 1963 0851 TO 0938 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/G SEC/CM ²	FU/G 1/SG.M	DISTANCE METERS
66.0	28	3.119E-08	1.372E-07	400
70.0	39	4.366E-08	1.921E-07	400
74.0	491	5.447E-07	2.397E-06	400
78.0	707	7.849E-07	3.454E-06	400
82.0	827	9.169E-07	4.034E-06	400
86.0	827	9.180E-07	4.039E-06	400
90.0	1019	1.130E-06	4.972E-06	400
94.0	2313	2.565E-06	1.128E-05	400
98.0	2830	3.137E-06	1.380E-05	400
102.0	6918	7.670E-06	3.375E-05	400
106.0	2703	2.997E-06	1.319E-05	400
110.0	1099	1.219E-06	5.368E-06	400
114.0	651	7.225E-07	3.179E-06	400

CROSSWIND INTEGRATED= 6.334E-04 2.787E-03
SEC/SG.M 1/M

TEST U-23 APRIL 30, 1963 0851 TO 0938 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
500M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/G SEC/CM ²	FU/G 1/SG.M	DISTANCE METERS
68.0	112	1.247E-07	5.489E-07	500
72.0	1445	1.603E-06	7.053E-06	500
76.0	1780	1.984E-06	8.728E-06	500
80.0	1263	1.400E-06	6.161E-06	500
84.0	859	9.533E-07	4.195E-06	500
88.0	2695	2.323E-06	1.022E-05	500
92.0	2703	2.997E-06	1.319E-05	500
96.0	6486	7.191E-06	3.164E-05	500
100.0	7294	8.087E-06	3.558E-05	500
104.0	4412	4.892E-06	2.153E-05	500
108.0	2717	3.013E-06	1.326E-05	500
112.0	1077	1.194E-06	5.256E-06	500
116.0	526	5.832E-07	2.566E-06	500
120.0	39	4.366E-08	1.921E-07	500

CROSSWIND INTEGRATED= 1.270E-03 5.589E-03
SEC/SG.M 1/M

TEST U-23 APRIL 30, 1963 0851 TO 0938 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/U SEC/CU.M	F/U 1/SQ.M	DISTANCE METERS
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66.0	111	1.237E-07	5.443E-07	600
70.0	1008	1.119E-06	4.922E-06	600
74.0	1693	1.877E-06	8.261E-06	600
78.0	2234	2.477E-06	1.090E-05	600
82.0	946	1.049E-06	4.615E-06	600
Z 86.0	1201	1.332E-06	5.860E-06	600
Z 90.0	2064	2.289E-06	1.007E-05	600
94.0	4654	5.161E-06	2.271E-05	600
98.0	5885	6.524E-06	2.871E-05	600
102.0	4854	5.387E-06	2.368E-05	600
106.0	3462	3.838E-06	1.689E-05	600
110.0	1926	2.135E-06	9.395E-06	600
114.0	1402	1.555E-06	6.843E-06	600
118.0	185	2.058E-07	9.057E-07	600

CROSSWIND INTEGRATED= 1.277E-03 5.620E-03
SEC/SQ.M 1/M

TEST U-23 APRIL 30, 1963 0851 TO 0938 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/U SEC/CU.M	F/U 1/SQ.M	DISTANCE METERS
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64.0	9	1.040E-08	4.574E-08	800
67.0	620	6.882E-07	3.028E-06	800
70.0	1060	1.176E-06	5.173E-06	800
73.0	1826	2.075E-06	8.911E-06	800
76.0	2285	2.533E-06	1.115E-05	800
79.0	1805	2.001E-06	8.805E-06	800
82.0	1472	1.632E-06	7.181E-06	800
85.0	1479	1.640E-06	7.218E-06	800
88.0	1791	1.987E-06	8.741E-06	800
91.0	2221	2.463E-06	1.084E-05	800
94.0	4526	5.018E-06	2.208E-05	800
97.0	7533	8.352E-06	3.675E-05	800
100.0	6405	7.656E-06	3.368E-05	800
103.0	5976	6.625E-06	2.915E-05	800
106.0	4394	4.872E-06	2.143E-05	800
109.0	2281	2.529E-06	1.113E-05	800
112.0	1737	1.926E-06	8.476E-06	800
115.0	709	7.870E-07	3.463E-06	800
118.0	121	1.351E-07	5.946E-07	800

CROSSWIND INTEGRATED= 2.264E-03 9.963E-03
SEC/SQ.M 1/M

TEST U-23 APRIL 30, 1963 0851 TO 0938 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/U SEC/CU.M	F/U 1/SQ.M	DISTANCE METERS
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64.0	64	7.107E-08	3.127E-07	1200
66.0	73	8.140E-08	3.582E-07	1200
68.0	178	1.974E-07	8.687E-07	1200
70.0	521	5.777E-07	2.582E-06	1200
72.0	866	9.604E-07	4.226E-06	1200
74.0	637	7.065E-07	3.108E-06	1200
76.0	1971	2.186E-06	9.617E-06	1200
78.0	916	1.018E-06	4.480E-06	1200
80.0	756	8.383E-07	3.688E-06	1200
82.0	810	8.990E-07	3.956E-06	1200
84.0	777	8.620E-07	3.793E-06	1200
86.0	887	9.841E-07	4.330E-06	1200
88.0	614	6.816E-07	2.999E-06	1200
90.0	667	7.399E-07	3.255E-06	1200
92.0	2369	2.627E-06	1.156E-05	1200
94.0	5017	5.562E-06	2.447E-05	1200
96.0	5660	6.276E-06	2.761E-05	1200
98.0	6458	7.160E-06	3.150E-05	1200
100.0	3398	3.767E-06	1.658E-05	1200
102.0	3318	3.679E-06	1.619E-05	1200
104.0	1926	2.136E-06	9.397E-06	1200
106.0	1736	1.926E-06	8.473E-06	1200
S 108.0	582	6.857E-07	2.841E-06	1200
110.0	700	7.763E-07	3.416E-06	1200
112.0	506	5.613E-07	2.470E-06	1200
114.0	487	5.400E-07	2.376E-06	1200
Q 116.0	4	5.467E-09	2.405E-08	1200
Q 118.0	0	0.000E+00	0.000E+00	1200
120.0	6	7.289E-09	3.207E-08	1200

CROSSWIND INTEGRATED= 1.947E-03 8.565E-03
SEC/SQ.M 1/M

TEST U-23 APRIL 30, 1963 0851 TO 0938 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/U SEC/CU.M	F/U 1/SQ.M	DISTANCE METERS
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28.0	21	2.369E-08	1.042E-07	1600
30.0	23	2.612E-08	1.149E-07	1600
34.0	76	9.444E-08	3.715E-07	1600
36.0	96	1.075E-07	4.731E-07	1600
38.0	263	2.916E-07	1.263E-06	1600
40.0	671	7.407E-07	3.277E-06	1600
42.0	886	9.385E-07	4.129E-06	1600
44.0	855	9.488E-07	4.175E-06	1600
46.0	934	1.036E-06	4.560E-06	1600
48.0	609	6.755E-07	2.972E-06	1600
50.0	747	8.292E-07	3.648E-06	1600
52.0	853	9.458E-07	4.162E-06	1600
54.0	465	5.163E-07	2.272E-06	1600
56.0	519	5.983E-07	2.633E-06	1600
58.0	404	4.489E-07	1.975E-06	1600
60.0	938	1.040E-06	4.576E-06	1600
62.0	1546	1.715E-06	7.545E-06	1600
64.0	2453	2.831E-06	1.246E-05	1600
66.0	2196	2.435E-06	1.071E-05	1600
68.0	2317	2.569E-06	1.130E-05	1600
70.0	2186	2.424E-06	1.066E-05	1600
72.0	2083	2.754E-06	1.212E-05	1600
74.0	1740	1.930E-06	8.491E-06	1600
76.0	835	9.264E-07	4.076E-06	1600
78.0	497	5.516E-07	2.427E-06	1600
80.0	283	3.147E-07	1.384E-06	1600
82.0	225	2.497E-07	1.099E-06	1600
84.0	230	2.557E-07	1.125E-06	1600
P 116.0	23	1.039E-07	4.570E-07	1600
P 118.0	12	1.336E-08	5.880E-08	1600

CROSSWIND INTEGRATED= 1.627E-03 7.160E-03
SEC/SQ.M 1/M

UNSTABLE SERIES EXPERIMENT: 24 (U-24)
GROUND LEVEL SAMPLING 100-1600 M ARCS.

TEST U-24 MAY 2, 1963 1223 TO 1323 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
100M ARC SAMPLER MT 1.5M U= 8.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	EU/G 1/SG.M	DISTANCE METERS
24.0	85	6.871E-08	5.497E-07	100
28.0	13	1.066E-08	8.530E-08	100
32.0	15	1.244E-08	9.951E-08	100
36.0	10	8.293E-09	6.630E-08	100
40.0	8	6.516E-09	5.213E-08	100
44.0	1	1.145E-09	9.478E-09	100
48.0	5	4.146E-09	3.317E-08	100
52.0	2	1.777E-09	1.422E-08	100
56.0	8	6.516E-09	5.213E-08	100
60.0	25	2.014E-08	1.611E-07	100
64.0	2	2.369E-09	1.896E-08	100
68.0	8	6.516E-09	5.213E-08	100
72.0	4	3.554E-09	2.843E-08	100
76.0	11	8.293E-09	7.108E-08	100
80.0	8	6.516E-09	5.213E-08	100
84.0	0	0.000E+00	0.000E+00	100
88.0	6	5.331E-09	4.265E-08	100
92.0	6	5.331E-09	4.265E-08	100
96.0	14	1.145E-08	9.478E-08	100
100.0	5	4.146E-09	3.317E-08	100
112.0	4	3.554E-09	2.843E-08	100
116.0	8	6.516E-09	5.213E-08	100
120.0	4	3.554E-09	2.843E-08	100

CROSSWIND INTEGRATED= 1.567E-06 1.254E-05
SEC/SG.M 1/M

TEST U-24 MAY 2, 1963 1223 TO 1323 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC SAMPLER MT 1.5M U= 8.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	EU/G 1/SG.M	DISTANCE METERS
18.0	4	3.554E-09	2.843E-08	200
22.0	6	5.331E-09	4.265E-08	200
26.0	4	3.554E-09	2.843E-08	200
30.0	34	2.725E-08	2.180E-07	200
34.0	76	6.101E-08	4.881E-07	200
38.0	22	1.777E-08	1.422E-07	200
42.0	102	8.174E-08	6.540E-07	200
46.0	11	2.547E-08	2.038E-07	200
50.0	8	7.168E-09	5.687E-08	200
54.0	22	1.777E-08	1.422E-07	200
58.0	142	1.297E-07	1.038E-06	200
62.0	72	1.836E-08	1.469E-07	200
66.0	91	7.286E-08	5.829E-07	200
70.0	68	4.450E-08	4.360E-07	200
74.0	177	1.422E-07	1.137E-06	200
78.0	567	4.537E-07	3.630E-06	200
82.0	669	5.355E-07	4.284E-06	200
86.0	245	1.961E-07	1.569E-06	200
90.0	331	2.644E-07	2.123E-06	200
94.0	285	2.286E-07	1.829E-06	200

CROSSWIND INTEGRATED= 3.278E-05 2.622E-04
SEC/SG.M 1/M

TEST U-24 MAY 2, 1963 1223 TO 1323 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER MT 1.5M U= 8.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	EU/G 1/SG.M	DISTANCE METERS
28.0	7	5.923E-09	4.739E-08	300
32.0	283	2.269E-07	1.815E-06	300
36.0	589	4.704E-07	3.767E-06	300
40.0	252	2.020E-07	1.616E-06	300
44.0	83	6.690E-08	5.355E-07	300
48.0	92	7.000E-08	5.923E-07	300
52.0	136	1.690E-07	8.719E-07	300
56.0	407	3.258E-07	2.606E-06	300
60.0	494	3.947E-07	3.166E-06	300
64.0	283	2.269E-07	1.815E-06	300
68.0	261	2.091E-07	1.673E-06	300
72.0	496	3.975E-07	3.180E-06	300
76.0	613	4.905E-07	3.924E-06	300
80.0	615	6.522E-07	5.217E-06	300
84.0	667	5.383E-07	4.274E-06	300
88.0	596	4.774E-07	3.819E-06	300
92.0	510	4.081E-07	3.265E-06	300
96.0	258	2.067E-07	1.654E-06	300
100.0	256	2.055E-07	1.644E-06	300
104.0	79	6.338E-08	5.071E-07	300
108.0	9	7.701E-09	6.160E-08	300
112.0	0	5.923E-10	4.739E-09	300
116.0	8	6.516E-09	5.213E-08	300
120.0	5	4.739E-09	3.791E-08	300

CROSSWIND INTEGRATED= 1.208E-04 9.665E-04
SEC/SG.M 1/M

TEST U-24 MAY 2, 1963 1223 TO 1323 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER MT 1.5M U= 8.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	EU/G 1/SG.M	DISTANCE METERS
22.0	27	2.192E-08	1.753E-07	400
26.0	111	8.293E-08	7.108E-07	400
30.0	49	5.568E-08	4.454E-07	400
34.0	514	4.117E-07	3.293E-06	400
38.0	430	3.402E-07	2.753E-06	400
42.0	582	4.662E-07	3.729E-06	400
46.0	887	7.102E-07	5.682E-06	400
50.0	596	4.774E-07	3.819E-06	400
54.0	2182	1.746E-06	1.397E-05	400
58.0	1443	1.155E-06	9.241E-06	400
62.0	1278	1.023E-06	8.184E-06	400
66.0	856	6.853E-07	5.483E-06	400
70.0	359	2.873E-07	2.298E-06	400
74.0	447	3.584E-07	2.867E-06	400
78.0	538	4.308E-07	3.445E-06	400
82.0	630	6.640E-07	5.312E-06	400
86.0	705	5.645E-07	4.516E-06	400
90.0	754	6.036E-07	4.829E-06	400
94.0	627	5.023E-07	4.018E-06	400
98.0	215	1.724E-07	1.379E-06	400
102.0	165	1.327E-07	1.061E-06	400
106.0	84	6.753E-08	5.402E-07	400
110.0	48	3.850E-08	3.080E-07	400
114.0	21	1.718E-08	1.374E-07	400
118.0	5	4.146E-09	3.317E-08	400

CROSSWIND INTEGRATED= 3.090E-04 2.464E-03
SEC/SG.M 1/M

TEST U-24 MAY 2, 1963 1223 TO 1323 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
500M APC SAMPLER HT 1.5M U= 8.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/G SEC/CM ²	FU/G 1/SG.M	DISTANCE METERS
20.0	17	1.362E-08	1.090E-07	500
24.0	115	9.241E-08	7.393E-07	500
28.0	142	1.143E-07	9.146E-07	500
32.0	202	2.263E-07	1.810E-06	500
36.0	304	3.074E-07	2.459E-06	500
40.0	565	4.685E-07	3.748E-06	500
44.0	1619	1.295E-06	1.036E-05	500
48.0	1357	1.066E-06	8.691E-06	500
52.0	2035	1.628E-06	1.303E-05	500
56.0	2940	2.359E-06	1.887E-05	500
60.0	1252	1.002E-06	8.018E-06	500
64.0	988	7.908E-07	6.326E-06	500
68.0	763	6.107E-07	4.886E-06	500
72.0	350	2.873E-07	2.298E-06	500
76.0	513	4.105E-07	3.288E-06	500
80.0	496	3.975E-07	3.180E-06	500
84.0	347	2.778E-07	2.222E-06	500
88.0	400	3.205E-07	2.564E-06	500
92.0	302	2.423E-07	1.938E-06	500
96.0	311	2.482E-07	1.986E-06	500
100.0	185	1.167E-07	9.335E-07	500
104.0	102	8.174E-08	6.540E-07	500
108.0	79	6.397E-08	5.118E-07	500
112.0	15	1.204E-08	9.951E-08	500

CROSSWIND INTEGRATED= 4.348E-04 SEC/SG.M
3.478E-03 1/M

TEST U-24 MAY 2, 1963 1223 TO 1323 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M APC SAMPLER HT 1.5M U= 8.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/G SEC/CM ²	FU/G 1/SG.M	DISTANCE METERS
18.0	16	1.303E-08	1.003E-07	600
22.0	40	3.258E-08	2.606E-07	600
26.0	115	9.241E-08	7.393E-07	600
30.0	219	1.753E-07	1.403E-06	600
34.0	193	1.546E-07	1.237E-06	600
38.0	335	2.683E-07	2.147E-06	600
42.0	1146	9.175E-07	7.340E-06	600
46.0	2427	1.942E-06	1.553E-05	600
50.0	2542	2.034E-06	1.627E-05	600
54.0	3581	2.865E-06	2.292E-05	600
58.0	2350	1.887E-06	1.510E-05	600
62.0	1783	1.427E-06	1.142E-05	600
66.0	737	5.900E-07	4.720E-06	600
70.0	541	4.330E-07	3.464E-06	600
74.0	321	2.571E-07	2.057E-06	600
78.0	396	3.169E-07	2.535E-06	600
82.0	273	2.186E-07	1.749E-06	600
86.0	231	1.808E-07	1.479E-06	600
90.0	353	2.826E-07	2.260E-06	600
94.0	171	1.374E-07	1.099E-06	600
98.0	184	1.475E-07	1.180E-06	600
102.0	134	1.078E-07	8.625E-07	600
106.0	133	1.066E-07	8.530E-07	600
110.0	34	2.725E-08	2.180E-07	600

CROSSWIND INTEGRATED= 6.123E-04 SEC/SG.M
4.899E-03 1/M

TEST U-24 MAY 2, 1963 1223 TO 1323 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
800M APC SAMPLER HT 1.5M U= 8.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/G SEC/CM ²	FU/G 1/SG.M	DISTANCE METERS
18.0	4	7.701E-09	6.166E-08	800
19.0	24	1.955E-08	1.564E-07	800
22.0	56	4.028E-08	3.222E-07	800
25.0	67	5.390E-08	4.312E-07	800
28.0	44	1.554E-08	2.843E-07	800
31.0	170	1.362E-07	1.090E-06	800
34.0	180	1.405E-07	1.156E-06	800
37.0	365	2.926E-07	2.341E-06	800
40.0	460	3.684E-07	2.948E-06	800
43.0	1350	1.087E-06	8.696E-06	800
46.0	1994	1.598E-06	1.278E-05	800
49.0	1279	1.024E-06	8.189E-06	800
52.0	1581	1.585E-06	1.268E-05	800
55.0	1511	1.210E-06	9.677E-06	800
58.0	1575	1.261E-06	1.008E-05	800
61.0	1068	8.548E-07	6.838E-06	800
64.0	818	6.551E-07	5.241E-06	800
67.0	704	5.633E-07	4.507E-06	800
70.0	394	3.169E-07	2.535E-06	800
73.0	365	2.926E-07	2.341E-06	800
76.0	205	1.641E-07	1.313E-06	800
79.0	83	6.694E-08	5.355E-07	800
82.0	116	9.300E-08	7.440E-07	800
85.0	79	6.338E-08	5.071E-07	800
88.0	146	1.173E-07	9.383E-07	800
91.0	91	7.345E-08	5.876E-07	800
94.0	62	5.035E-08	4.028E-07	800
97.0	88	6.930E-08	5.544E-07	800
100.0	41	3.317E-08	2.654E-07	800
103.0	17	1.422E-08	1.137E-07	800
106.0	16	1.303E-08	1.043E-07	800

CROSSWIND INTEGRATED= 5.153E-04 SEC/SG.M
4.123E-03 1/M

TEST U-24 MAY 2, 1963 1223 TO 1323 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLED HT 1.5M U= 8.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	F/U SEC/CM	EL/0 1/SG,M	DISTANCE METERS
18.0	10	8.499E-09	6.799E-08	1200
20.0	18	1.441E-08	1.153E-07	1200
22.0	23	1.884E-08	1.508E-07	1200
24.0	39	3.17E-08	2.542E-07	1200
26.0	42	3.362E-08	2.690E-07	1200
28.0	74	1.958E-08	1.567E-07	1200
30.0	51	4.138E-08	3.311E-07	1200
32.0	84	6.789E-08	5.439E-07	1200
34.0	42	3.362E-08	2.690E-07	1200
36.0	41	3.289E-08	2.631E-07	1200
38.0	118	9.459E-08	7.567E-07	1200
40.0	174	1.393E-07	1.114E-06	1200
42.0	383	3.071E-07	2.456E-06	1200
44.0	457	3.642E-07	2.929E-06	1200
46.0	707	5.657E-07	4.526E-06	1200
48.0	893	7.131E-07	5.705E-06	1200
50.0	666	5.328E-07	4.263E-06	1200
52.0	794	6.355E-07	5.084E-06	1200
54.0	691	5.535E-07	4.428E-06	1200
56.0	545	4.368E-07	3.494E-06	1200
58.0	373	2.989E-07	2.391E-06	1200
60.0	283	2.265E-07	1.812E-06	1200
62.0	369	2.952E-07	2.362E-06	1200
64.0	454	3.640E-07	2.912E-06	1200
66.0	314	2.516E-07	2.013E-06	1200
68.0	186	1.508E-07	1.206E-06	1200
70.0	170	1.367E-07	1.094E-06	1200
72.0	149	1.197E-07	9.577E-07	1200
74.0	74	5.949E-08	4.759E-07	1200
76.0	82	6.614E-08	5.291E-07	1200
78.0	69	5.543E-08	4.434E-07	1200
80.0	25	2.032E-08	1.626E-07	1200
82.0	27	2.217E-08	1.774E-07	1200
84.0	11	9.23E-09	7.390E-08	1200
86.0	31	2.513E-08	2.010E-07	1200
88.0	28	2.254E-08	1.803E-07	1200
90.0	39	3.141E-08	2.513E-07	1200
92.0	26	2.143E-08	1.714E-07	1200
94.0	29	2.365E-08	1.892E-07	1200
96.0	17	1.404E-08	1.123E-07	1200
98.0	6	5.173E-09	4.138E-08	1200

CROSSHAIR INTEGRATED= 2.876E-04 2.301E-03
SEC/SG,M 1/M

TEST U-24 MAY 2, 1963 1223 TO 1323 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLED HT 1.5M U= 8.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	F/U SEC/CM	FU/G 1/SG,M	DISTANCE METERS
26.0	11	8.868E-09	7.094E-08	1600
28.0	22	1.774E-08	1.419E-07	1600
30.0	23	1.884E-08	1.478E-07	1600
32.0	33	2.697E-08	2.158E-07	1600
34.0	27	2.217E-08	1.774E-07	1600
36.0	30	2.439E-08	1.951E-07	1600
38.0	39	3.141E-08	2.513E-07	1600
40.0	369	2.952E-07	2.362E-06	1600
42.0	190	1.123E-07	8.986E-07	1600
44.0	207	1.659E-07	1.327E-06	1600
46.0	425	3.407E-07	2.725E-06	1600
48.0	336	2.694E-07	2.155E-06	1600
50.0	345	2.744E-07	2.211E-06	1600
52.0	330	2.642E-07	2.114E-06	1600
54.0	286	2.291E-07	1.833E-06	1600
56.0	214	1.718E-07	1.375E-06	1600
58.0	303	2.428E-07	1.942E-06	1600
60.0	138	1.109E-07	8.868E-07	1600
62.0	213	1.711E-07	1.369E-06	1600
64.0	220	1.763E-07	1.410E-06	1600
66.0	248	1.992E-07	1.593E-06	1600
68.0	91	7.316E-08	5.853E-07	1600
70.0	41	3.209E-08	2.631E-07	1600
72.0	75	8.060E-08	4.848E-07	1600
74.0	69	5.543E-08	4.434E-07	1600
76.0	41	3.269E-08	2.631E-07	1600
78.0	6	5.173E-09	4.138E-08	1600
80.0	30	8.129E-09	6.503E-08	1600
82.0	19	1.589E-09	1.271E-07	1600
84.0	18	1.478E-08	1.182E-07	1600
86.0	24	1.921E-08	1.537E-07	1600
88.0	11	9.23E-09	7.390E-08	1600
90.0	12	1.035E-08	8.277E-08	1600
92.0	13	1.072E-08	8.572E-08	1600
94.0	0	3.695E-10	2.956E-09	1600
96.0	4	3.328E-09	2.660E-08	1600

CROSSHAIR INTEGRATED= 1.970E-04 1.576E-03
SEC/SG,M 1/M

UNSTABLE SERIES EXPERIMENT: 25 (U-25)
GROUND LEVEL SAMPLING 100-1600 M ARCS. FOR EASE IN STATISTICAL
ANALYSIS, ALL SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES
FROM THEIR ACTUAL POSITIONS. THE TRACER WAS NOT DETECTED ON THE
100 M ARC. A PORTION OF THE PLUME PASSED TO THE NORTH OF THE
GRID.

TEST U-25 MAY 7, 1963 1240 TO 1304 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5" U= 3.7 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE CM-SEC/CU.M X10E+6	FZQ SEC/CU.M	FU/Q 1/80.M	DISTANCE METERS
12.0	2017	2.862E-06	1.059E-05	200
16.0	2331	1.307E-06	1.223E-05	200
20.0	401	5.609E-07	2.109E-06	200
24.0	3742	5.337E-06	1.975E-05	200
28.0	5811	8.243E-06	3.050E-05	200
32.0	3844	5.454E-06	2.018E-05	200
36.0	1452	2.061E-06	7.425E-06	200
40.0	622	8.434E-07	3.269E-06	200
44.0	94	1.338E-07	4.949E-07	200
48.0	2210	3.135E-06	1.160E-05	200
52.0	3124	4.435E-06	1.641E-05	200
56.0	3532	5.011E-06	1.850E-05	200
60.0	287	4.083E-07	1.511E-06	200
64.0	1000	1.076E-06	5.460E-06	200
68.0	1764	5.302E-06	1.977E-05	200
72.0	1705	2.419E-06	8.950E-06	200
76.0	2186	3.102E-06	1.108E-05	200
80.0	543	7.908E-07	2.959E-06	200
84.0	321	4.554E-07	1.686E-06	200
88.0	561	7.979E-07	2.909E-06	200
92.0	473	4.716E-07	2.485E-06	200
96.0	205	2.912E-07	1.078E-06	200
100.0	17	2.508E-08	9.280E-08	200
104.0	47	4.688E-08	2.475E-07	200

CROSSING INTEGRATED= 9.315E-04
SEC/80.M 1/M

TEST U-25 MAY 7, 1963 1240 TO 1304 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5" U= 3.7 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE CM-SEC/CU.M X10E+6	FZQ SEC/CU.M	FU/Q 1/80.M	DISTANCE METERS
10.0	2542	3.606E-06	1.334E-05	300
14.0	493	6.846E-07	2.537E-06	300
18.0	1350	1.916E-06	7.089E-06	300
22.0	3950	5.603E-06	2.073E-05	300
26.0	3393	4.813E-06	1.781E-05	300
30.0	7124	1.011E-05	3.739E-05	300
34.0	10558	1.008E-05	5.541E-05	300
38.0	4790	6.801E-06	2.516E-05	300
42.0	3504	4.973E-06	1.840E-05	300
46.0	8629	6.567E-06	2.430E-05	300
50.0	5499	7.233E-06	2.676E-05	300
54.0	1104	1.546E-06	5.795E-06	300
58.0	21	3.066E-08	1.134E-07	300
62.0	10	1.533E-08	5.671E-08	300
66.0	53	7.524E-08	2.784E-07	300
70.0	125	2.773E-07	1.026E-06	300
74.0	298	4.236E-07	1.567E-06	300
78.0	976	1.385E-06	5.125E-06	300
82.0	1410	2.003E-06	7.558E-06	300
86.0	2275	3.227E-06	1.194E-05	300
90.0	2277	3.259E-06	1.206E-05	300
94.0	1708	2.423E-06	8.966E-06	300
98.0	1209	1.715E-06	6.307E-06	300
102.0	435	6.173E-07	2.284E-06	300
106.0	229	3.247E-07	1.201E-06	300
110.0	24	3.488E-08	1.289E-07	300
114.0	96	1.366E-07	5.053E-07	300
118.0	59	7.106E-08	2.629E-07	300
122.0	22	3.205E-08	1.186E-07	300
126.0	51	7.206E-08	2.681E-07	300
130.0	464	6.501E-07	2.439E-06	300

CROSSING INTEGRATED= 1.840E-03
SEC/80.M 1/M

TEST U-25 MAY 7, 1963 1240 TO 1304 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. ² X10E+6	F/D SEC/CM. ²	F/D 1/SQ.M	DISTANCE METERS
12.0	475	6.740E-07	2.495E-06	400
16.0	520	7.385E-07	2.733E-06	400
20.0	502	7.134E-07	2.640E-06	400
24.0	3513	4.900E-06	1.800E-05	400
28.0	2747	3.807E-06	1.442E-05	400
32.0	4553	5.226E-06	3.439E-05	400
36.0	5195	7.370E-06	2.727E-05	400
40.0	5842	8.316E-06	3.077E-05	400
44.0	4217	5.982E-06	2.213E-05	400
48.0	3105	4.005E-06	1.630E-05	400
52.0	2018	2.863E-06	1.059E-05	400
56.0	26	3.080E-08	1.284E-07	400
60.0	46	5.713E-08	2.114E-07	400
72.0	45	6.410E-08	2.372E-07	400
96.0	42	1.170E-07	4.331E-07	400
100.0	1174	1.667E-06	6.166E-06	400
104.0	613	8.709E-07	3.222E-06	400
108.0	773	1.007E-06	4.058E-06	400
112.0	337	4.703E-07	1.774E-06	400
116.0	236	3.359E-07	1.243E-06	400
120.0	103	1.463E-07	5.413E-07	400
124.0	108	1.533E-07	5.671E-07	400
128.0	104	1.477E-07	5.465E-07	400
132.0	48	6.828E-08	2.526E-07	400
136.0	12	1.811E-08	6.702E-08	400
140.0	4	6.967E-09	2.578E-08	400
144.0	52	7.385E-08	2.733E-07	400
148.0	105	1.491E-07	5.517E-07	400
152.0	984	1.326E-06	5.166E-06	400

CROSSWIND INTEGRATED= 1.574E-03 5.832E-03
SEC/SQ.M 1/M

TEST U-25 MAY 7, 1963 1240 TO 1304 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
500M ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. ² X10E+6	F/D SEC/CM. ²	F/D 1/SQ.M	DISTANCE METERS
10.0	487	6.911E-07	2.557E-06	500
14.0	260	3.693E-07	1.366E-06	500
18.0	403	5.727E-07	2.119E-06	500
22.0	1387	1.966E-06	7.280E-06	500
26.0	1281	1.817E-06	6.723E-06	500
30.0	3357	4.763E-06	1.762E-05	500
34.0	3910	5.553E-06	2.055E-05	500
38.0	3197	4.445E-06	1.652E-05	500
42.0	831	1.179E-06	4.362E-06	500
46.0	1986	2.810E-06	1.042E-05	500
50.0	1169	1.660E-06	6.100E-06	500
54.0	226	3.210E-07	1.191E-06	500
58.0	12	1.811E-08	6.702E-08	500
106.0	1	2.787E-09	1.031E-08	500
110.0	106	1.505E-07	5.568E-07	500
114.0	183	2.606E-07	9.601E-07	500
118.0	628	8.918E-07	3.300E-06	500
122.0	149	2.118E-07	7.837E-07	500
126.0	82	1.170E-07	4.331E-07	500
130.0	29	4.180E-08	1.547E-07	500
134.0	10	1.573E-08	5.671E-08	500
138.0	53	7.524E-08	2.784E-07	500
142.0	29	4.180E-08	1.547E-07	500
146.0	39	5.574E-08	2.062E-07	500
150.0	96	1.366E-07	5.053E-07	500

CROSSWIND INTEGRATED= 2.882E-04 3.656E-03
SEC/SQ.M 1/M

TEST U-25 MAY 7, 1963 1240 TO 1304 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. ² X10E+6	F/D SEC/CM. ²	F/D 1/SQ.M	DISTANCE METERS
12.0	253	3.505E-07	1.330E-06	600
16.0	470	6.940E-07	2.516E-06	600
20.0	801	1.194E-06	4.418E-06	600
24.0	1110	1.575E-06	5.826E-06	600
28.0	1968	2.702E-06	1.033E-05	600
32.0	3295	4.675E-06	1.730E-05	600
36.0	3524	5.000E-06	1.850E-05	600
40.0	1609	2.202E-06	8.485E-06	600
44.0	1069	1.517E-06	5.615E-06	600
48.0	869	1.233E-06	4.563E-06	600
52.0	201	2.857E-07	1.057E-06	600
56.0	57	8.221E-08	3.042E-07	600
60.0	10	1.533E-08	5.671E-08	600
120.0	94	1.338E-07	4.949E-07	600
124.0	44	6.270E-08	2.320E-07	600
128.0	31	4.459E-08	1.650E-07	600
132.0	11	1.672E-08	6.187E-08	600
136.0	62	8.918E-08	3.300E-07	600
140.0	37	5.205E-08	1.959E-07	600
144.0	10	1.533E-08	5.671E-08	600
148.0	32	4.508E-08	1.701E-07	600
152.0	176	2.518E-07	9.280E-07	600

CROSSWIND INTEGRATED= 9.822E-04 3.634E-03
SEC/SQ.M 1/M

TEST U-25 MAY 7, 1963 1240 TO 1304 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. ² X10E+6	F/D SEC/CM. ²	F/D 1/SQ.M	DISTANCE METERS
13.0	11	1.672E-08	6.187E-08	800
16.0	645	9.155E-07	3.387E-06	800
19.0	370	5.253E-07	1.944E-06	800
22.0	205	2.912E-07	1.078E-06	800
25.0	493	6.280E-07	2.325E-06	800
28.0	530	7.524E-07	2.784E-06	800
31.0	2143	3.940E-06	1.125E-05	800
34.0	2211	3.137E-06	1.161E-05	800
37.0	1888	2.678E-06	9.909E-06	800
40.0	1504	2.135E-06	7.898E-06	800
43.0	1052	1.492E-06	5.522E-06	800
46.0	661	9.378E-07	3.470E-06	800
49.0	346	4.347E-07	1.609E-06	800
52.0	158	2.243E-07	8.301E-07	800
55.0	45	6.410E-08	2.372E-07	800
58.0	30	4.320E-08	1.598E-07	800
61.0	11	1.672E-08	6.187E-08	800
64.0	6	0.750E-09	3.609E-08	800
67.0	0	0.000E+00	0.000E+00	800
70.0	5	8.361E-09	3.093E-08	800
142.0	9	1.397E-08	5.156E-08	800
145.0	34	4.877E-08	1.804E-07	800
148.0	0	0.000E+00	0.000E+00	800
151.0	93	1.324E-07	4.898E-07	800

CROSSWIND INTEGRATED= 7.457E-04 2.759E-03
SEC/SQ.M 1/M

TEST U-25 MAY 7, 1963 1200 TO 1300 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 5AM

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE CM-SEC/CH. X10E+6	E/O SEC/CH. X10E+6	EU/O 1/SEC	DISTANCE METERS
30.0	437	6.210E-07	2.298E-06	1200
32.0	470	6.667E-07	2.467E-06	1200
34.0	507	7.749E-07	2.874E-06	1200
36.0	457	6.426E-07	2.003E-06	1200
Z 38.0	402	5.700E-07	2.111E-06	1200
Z 40.0	575	8.169E-07	3.022E-06	1200
42.0	670	9.507E-07	3.518E-06	1200
44.0	377	5.361E-07	1.984E-06	1200
S 46.0	448	6.365E-07	2.355E-06	1200
48.0	563	7.989E-07	2.956E-06	1200
50.0	362	5.141E-07	1.902E-06	1200
52.0	195	2.766E-07	1.024E-06	1200
54.0	121	1.730E-07	6.401E-07	1200
S 56.0	72	1.028E-07	3.804E-07	1200
58.0	62	8.895E-08	3.291E-07	1200
60.0	37	1.200E-07	4.589E-07	1200
S 62.0	33	4.733E-08	1.751E-07	1200
64.0	26	3.754E-08	1.389E-07	1200
66.0	39	5.631E-08	2.083E-07	1200
68.0	21	3.019E-08	1.117E-07	1200
70.0	169	2.329E-07	8.877E-07	1200
72.0	38	5.068E-08	2.023E-07	1200
S 74.0	19	2.775E-08	1.027E-07	1200
Z 76.0	0	0.000E+00	0.000E+00	1200
T 78.0	7	1.061E-08	3.925E-08	1200
80.0	35	5.060E-08	1.872E-07	1200
82.0	13	1.877E-08	6.945E-08	1200
S 84.0	6	9.793E-09	3.623E-08	1200
86.0	4	6.528E-09	2.416E-08	1200
88.0	2	4.080E-09	1.510E-08	1200
146.0	10	1.550E-08	5.737E-08	1200
148.0	0	0.000E+00	0.000E+00	1200
150.0	4	6.528E-09	2.416E-08	1200
152.0	66	9.185E-08	3.472E-07	1200

CROSSWIND INTEGRATED= 1.800E-04 1.439E-03
SEC/SEC 1/M

TEST U-25 MAY 7, 1963 1200 TO 1300 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 5AM

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE CM-SEC/CH. X10E+6	E/O SEC/CH. X10E+6	EU/O 1/SEC	DISTANCE METERS
30.0	109	1.559E-07	5.767E-07	1600
32.0	128	1.820E-07	6.733E-07	1600
34.0	156	2.195E-07	8.122E-07	1600
36.0	210	3.036E-07	1.123E-06	1600
38.0	180	2.562E-07	9.481E-07	1600
40.0	131	1.861E-07	6.884E-07	1600
42.0	158	2.252E-07	8.333E-07	1600
44.0	149	2.110E-07	7.820E-07	1600
46.0	89	1.265E-07	4.680E-07	1600
48.0	143	2.032E-07	7.518E-07	1600
50.0	127	1.812E-07	6.703E-07	1600
52.0	223	3.174E-07	1.175E-06	1600
54.0	93	1.322E-07	4.891E-07	1600
56.0	12	1.795E-08	6.643E-08	1600
58.0	4	5.712E-09	2.114E-08	1600
60.0	0	0.000E+00	0.000E+00	1600
62.0	4	5.712E-09	2.114E-08	1600
64.0	6	9.793E-09	3.623E-08	1600
66.0	0	5.712E-09	2.114E-08	1600
68.0	2	3.264E-09	1.208E-08	1600
70.0	1	2.408E-09	9.058E-09	1600
72.0	4	5.712E-09	2.114E-08	1600
74.0	0	0.000E+00	0.000E+00	1600
76.0	0	0.000E+00	0.000E+00	1600
78.0	5	8.160E-09	3.019E-08	1600

CROSSWIND INTEGRATED= 1.580E-04 5.713E-04
SEC/SEC 1/M

UNSTABLE SERIES EXPERIMENT: 26 (U-26)
GROUND LEVEL SAMPLING 100-1600 M ARCS. FOR EASE IN STATISTICAL
ANALYSIS, ALL SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 100 DEGREES
FROM THEIR ACTUAL POSITIONS. THE TRACER WAS NOT DETECTED ON THE
100 M ARC.

TEST U-26 JULY 29, 1963 1045 TO 1145 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HI 1.5% U= 4.6 K/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 100 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CL. X10E6	EL/C SEC/CL. X10E6	EL/C 1/SEC	DISTANCE METERS
82.0	367	2.262E-07	1.086E-06	200
86.0	584	3.595E-07	1.726E-06	200
90.0	451	4.011E-07	1.925E-06	200
94.0	1236	7.571E-07	3.632E-06	200
98.0	433	2.866E-07	1.280E-06	200
102.0	6	4.039E-09	1.939E-08	200
106.0	1123	6.913E-07	3.318E-06	200
110.0	3199	1.969E-06	9.451E-06	200
114.0	2014	1.240E-06	5.550E-06	200
118.0	2036	1.253E-06	6.016E-06	200
122.0	667	4.109E-07	1.972E-06	200
126.0	1085	6.682E-07	3.207E-06	200
130.0	2068	1.273E-06	6.110E-06	200
134.0	3466	2.133E-06	1.024E-05	200
138.0	4215	2.598E-06	1.245E-05	200
142.0	2834	1.744E-06	8.373E-06	200
146.0	2805	1.727E-06	8.287E-06	200
150.0	2752	1.694E-06	8.130E-06	200
154.0	6695	4.065E-06	1.951E-05	200
158.0	6476	3.987E-06	1.914E-05	200
162.0	8441	5.195E-06	2.493E-05	200
166.0	3609	2.221E-06	1.066E-05	200
170.0	4248	2.615E-06	1.255E-05	200
174.0	4215	2.594E-06	1.245E-05	200
178.0	3671	1.890E-06	9.071E-06	200
182.0	2390	1.465E-06	7.033E-06	200
186.0	1890	1.163E-06	5.584E-06	200
190.0	1416	8.679E-07	4.166E-06	200
194.0	201	1.241E-07	5.955E-07	200
198.0	7	4.616E-09	2.216E-08	200
202.0	7	4.616E-09	2.216E-08	200

CROSSHAIR INTEGRATED= 6.368E-04 3.057E-03
SEC/SEC 1/X

TEST U-26 JULY 29, 1963 1045 TO 1145 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HI 1.5% U= 4.6 K/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 100 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CL. X10E6	EL/C SEC/CL. X10E6	EL/C 1/SEC	DISTANCE METERS
82.0	113	4.922E-08	3.352E-07	300
86.0	736	4.547E-07	2.183E-06	300
90.0	1023	6.296E-07	3.022E-06	300
94.0	849	5.228E-07	2.509E-06	300
98.0	41	3.899E-08	1.828E-07	300
102.0	234	1.950E-07	6.980E-07	300
106.0	874	5.395E-07	2.590E-06	300
110.0	590	6.094E-07	2.925E-06	300
114.0	2529	1.957E-06	7.473E-06	300
118.0	2475	1.523E-06	7.312E-06	300
122.0	2413	1.485E-06	7.130E-06	300
126.0	4163	2.562E-06	1.230E-05	300
130.0	5337	3.285E-06	1.577E-05	300
134.0	8026	4.941E-06	2.372E-05	300
138.0	4973	2.507E-06	1.203E-05	300
142.0	5611	3.453E-06	1.657E-05	300
146.0	5653	3.110E-06	1.493E-05	300
150.0	2897	1.783E-06	8.559E-06	300
154.0	2293	1.411E-06	6.775E-06	300
158.0	3357	2.066E-06	9.916E-06	300
162.0	2810	1.720E-06	8.301E-06	300
166.0	1514	9.319E-07	4.473E-06	300
170.0	2536	1.623E-06	7.789E-06	300
174.0	3228	1.987E-06	9.537E-06	300
178.0	3464	3.363E-06	1.614E-05	300
182.0	5189	3.193E-06	1.533E-05	300
186.0	3720	2.290E-06	1.099E-05	300
190.0	1077	6.630E-07	3.183E-06	300
194.0	58	3.578E-08	1.717E-07	300

CROSSHAIR INTEGRATED= 1.016E-03 4.877E-03
SEC/SEC 1/X

TEST U-26 JUNE 24, 1963 1045 TO 1145 PST
 71AC SULFIDE RELEASE FROM ELEVATION OF 56M
 400M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 100 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. ² X10E+6	F/Z SEC/CM. ²	F/ZQ 1/SEC. ²	DISTANCE METERS
86.0	97	2.903E-08	1.413E-07	400
90.0	273	1.437E-07	6.897E-07	400
94.0	712	4.386E-07	2.105E-06	400
98.0	843	5.188E-07	2.590E-06	400
102.0	453	2.763E-07	1.341E-06	400
106.0	190	1.171E-07	5.423E-07	400
110.0	426	2.626E-07	1.260E-06	400
114.0	1145	7.052E-07	3.385E-06	400
T 118.0	1133	6.977E-07	3.309E-06	400
122.0	1304	6.266E-07	3.078E-06	400
126.0	1574	7.700E-07	4.656E-06	400
130.0	2868	1.765E-06	8.473E-06	400
134.0	4717	2.903E-06	1.394E-05	400
138.0	4324	2.661E-06	1.277E-05	400
142.0	5513	3.405E-06	1.634E-05	400
146.0	6477	4.232E-06	2.031E-05	400
150.0	5715	3.517E-06	1.688E-05	400
154.0	2976	1.586E-06	7.612E-06	400
158.0	2317	1.426E-06	6.844E-06	400
162.0	4377	2.663E-06	1.278E-05	400
166.0	4106	2.527E-06	1.213E-05	400
170.0	3876	2.386E-06	1.105E-05	400
174.0	3039	1.870E-06	8.977E-06	400
178.0	3528	2.171E-06	1.042E-05	400
182.0	4494	2.762E-06	1.326E-05	400
186.0	4178	2.571E-06	1.234E-05	400
190.0	4975	3.062E-06	1.470E-05	400
194.0	4111	2.530E-06	1.215E-05	400
S 198.0	4491	2.145E-06	1.014E-05	400

CROSSHAIR INTEGRATED= 1.341E-03 6.428E-03
 SEC/SEC.² 1/M

TEST U-26 JUNE 24, 1963 1045 TO 1145 PST
 71AC SULFIDE RELEASE FROM ELEVATION OF 56M
 500M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 100 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. ² X10E+6	F/Z SEC/CM. ²	F/ZQ 1/SEC. ²	DISTANCE METERS
86.0	78	4.552E-08	2.188E-07	500
S 92.0	143	8.820E-08	4.210E-07	500
96.0	435	5.162E-07	2.482E-06	500
100.0	524	3.260E-07	1.565E-06	500
104.0	576	3.508E-07	1.684E-06	500
108.0	231	1.454E-07	6.980E-07	500
112.0	345	2.251E-07	1.081E-06	500
116.0	1013	6.239E-07	2.994E-06	500
S 120.0	1385	8.529E-07	4.094E-06	500
124.0	670	5.049E-07	2.424E-06	500
128.0	1341	8.258E-07	3.964E-06	500
132.0	3519	2.160E-06	1.048E-05	500
136.0	4214	2.593E-06	1.245E-05	500
140.0	3860	2.378E-06	1.141E-05	500
144.0	5115	3.151E-06	1.512E-05	500
148.0	3533	2.174E-06	1.044E-05	500
152.0	2270	1.397E-06	6.706E-06	500
156.0	1470	8.615E-07	4.135E-06	500
Z 160.0	1137	7.000E-07	3.360E-06	500
S 164.0	5346	3.299E-06	1.584E-05	500
168.0	4322	2.660E-06	1.277E-05	500
172.0	2241	1.379E-06	6.620E-06	500
176.0	2275	1.389E-06	6.573E-06	500
180.0	3234	1.901E-06	9.555E-06	500
184.0	3144	1.908E-06	9.308E-06	500
188.0	3139	1.932E-06	9.273E-06	500
192.0	4028	2.679E-06	1.190E-05	500
S 196.0	1904	1.200E-06	5.755E-06	500
200.0	291	1.507E-07	7.423E-07	500
204.0	10	1.159E-08	5.505E-08	500

CROSSHAIR INTEGRATED= 1.339E-03 6.428E-03
 SEC/SEC.² 1/M

TEST U-26 JUNE 24, 1963 1045 TO 1145 PST
 71AC SULFIDE RELEASE FROM ELEVATION OF 56M
 400M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 100 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. ² X10E+6	F/Z SEC/CM. ²	F/ZQ 1/SEC. ²	DISTANCE METERS
90.0	54	3.347E-08	1.607E-07	600
94.0	156	9.637E-08	4.626E-07	600
98.0	443	2.551E-07	1.368E-06	600
102.0	301	1.958E-07	9.915E-07	600
S 106.0	162	9.683E-08	4.792E-07	600
T 110.0	100	6.173E-08	2.960E-07	600
114.0	267	1.605E-07	7.894E-07	600
118.0	630	3.693E-07	1.773E-06	600
122.0	545	5.817E-07	2.792E-06	600
126.0	551	3.303E-07	1.629E-06	600
130.0	1111	6.838E-07	3.282E-06	600
134.0	1995	1.228E-06	5.894E-06	600
138.0	2753	1.694E-06	8.132E-06	600
142.0	3136	1.926E-06	9.246E-06	600
S 146.0	1882	1.199E-06	5.562E-06	600
150.0	1825	8.771E-07	4.210E-06	600
154.0	1092	6.459E-07	3.196E-06	600
158.0	1944	1.197E-06	5.745E-06	600
162.0	3591	2.210E-06	1.061E-05	600
166.0	2729	1.680E-06	8.063E-06	600
170.0	1797	1.106E-06	5.310E-06	600
174.0	692	4.259E-07	2.044E-06	600
178.0	1234	7.600E-07	3.648E-06	600
182.0	1483	9.129E-07	4.382E-06	600
186.0	2077	1.235E-06	5.930E-06	600
190.0	983	6.053E-07	2.906E-06	600
194.0	1746	1.074E-06	5.157E-06	600
198.0	567	3.491E-07	1.676E-06	600
202.0	17	1.096E-08	5.263E-08	600

CROSSHAIR INTEGRATED= 9.223E-04 4.427E-03
 SEC/SEC.² 1/M

TEST U-26 JUNE 20, 1963 1945 TO 1145 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 564
DOWN AND SAMPLER AT 1.5" @ 0.6 M/SEC AT 56M

SAMPLER AZIMUTH DIRECTION INCREASED BY 100 DEGREES

AZIMUTH DEGREES	EXPOSURE CM-SEC/CM ² X10 ⁴ S	FZ SEC/CM ²	FZ/S 1/SEC	DISTANCE METERS
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98.0	54	7.905E-08	1.630E-07	800
T 101.0	116	7.165E-08	3.135E-07	800
104.0	112	6.925E-08	3.320E-07	800
107.0	113	6.922E-08	3.352E-07	800
110.0	52	7.231E-08	1.951E-07	800
113.0	54	7.905E-08	1.630E-07	800
116.0	106	6.578E-08	3.154E-07	800
119.0	966	2.674E-07	1.379E-06	800
122.0	239	1.801E-07	8.836E-07	800
125.0	334	2.060E-07	5.888E-07	800
128.0	374	2.377E-07	1.122E-06	800
131.0	506	3.360E-07	1.615E-06	800
130.0	1044	7.205E-07	3.215E-06	800
137.0	1335	6.217E-07	3.944E-06	800
140.0	1606	9.895E-07	4.745E-06	800
143.0	1570	9.666E-07	4.640E-06	800
146.0	905	5.574E-07	2.676E-06	800
149.0	576	4.549E-07	1.703E-06	800
152.0	600	7.693E-07	1.773E-06	800
155.0	445	2.741E-07	1.316E-06	800
158.0	991	4.099E-07	2.528E-06	800
161.0	1133	6.977E-07	3.349E-06	800
164.0	942	2.845E-07	1.366E-06	800
167.0	310	1.910E-07	5.168E-07	800
S 170.0	523	3.220E-07	1.546E-06	800
173.0	382	2.364E-07	1.130E-06	800
176.0	1114	6.890E-07	3.367E-06	800
179.0	674	4.148E-07	1.992E-06	800
182.0	1246	7.657E-07	3.678E-06	800
185.0	853	5.251E-07	2.521E-06	800
188.0	716	4.020E-07	2.122E-06	800
191.0	448	3.006E-07	1.443E-06	800
194.0	606	3.734E-07	1.792E-06	800
197.0	516	3.100E-07	1.526E-06	800
200.0	100	4.174E-08	2.964E-07	800
203.0	0	2.421E-08	1.151E-07	800
206.0	0	5.771E-10	2.770E-09	800
209.0	0	0.000E+00	0.000E+00	800
212.0	15	5.233E-08	1.032E-08	800
221.0	17	1.066E-08	5.263E-08	800

CROSSHAIR INTEGRATE = 5.014E-04 2.509E-03
SEC/CM² 1/SEC

TEST U-26 JUNE 20, 1963 1945 TO 1145 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 564
DOWN AND SAMPLER AT 1.5" @ 0.6 M/SEC AT 56M

SAMPLER AZIMUTH DIRECTION INCREASED BY 100 DEGREES

AZIMUTH DEGREES	EXPOSURE CM-SEC/CM ² X10 ⁴ S	FZ SEC/CM ²	FZ/S 1/SEC	DISTANCE METERS
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104.0	81	2.520E-08	1.214E-07	1200
106.0	32	1.599E-08	9.549E-08	1200
108.0	31	1.554E-08	9.387E-08	1200
110.0	60	4.292E-08	2.055E-07	1200
112.0	86	5.294E-08	2.541E-07	1200
T 114.0	20	1.248E-08	5.988E-08	1200
116.0	66	0.500E-08	1.958E-07	1200
118.0	45	0.046E-08	1.942E-07	1200
120.0	83	5.125E-08	2.460E-07	1200
122.0	133	8.103E-08	3.933E-07	1200
Z 124.0	115	7.115E-08	3.415E-07	1200
Z 126.0	103	8.800E-08	4.224E-07	1200
128.0	215	1.328E-07	6.377E-07	1200
130.0	136	8.396E-08	4.030E-07	1200
132.0	183	1.135E-07	5.422E-07	1200
134.0	288	1.531E-07	7.348E-07	1200
S 136.0	170	1.193E-07	5.292E-07	1200
138.0	322	1.906E-07	9.533E-07	1200
140.0	974	5.998E-07	2.879E-06	1200
S 142.0	584	3.411E-07	1.733E-06	1200
144.0	353	2.175E-07	1.044E-06	1200
146.0	297	1.831E-07	8.788E-07	1200
148.0	341	2.104E-07	1.010E-06	1200
S 150.0	202	1.255E-07	6.166E-07	1200
152.0	145	8.935E-08	4.289E-07	1200
154.0	204	1.538E-07	7.380E-07	1200
156.0	694	4.272E-07	2.051E-06	1200
158.0	338	2.005E-07	1.000E-06	1200
160.0	381	2.347E-07	1.126E-06	1200
162.0	236	1.457E-07	6.992E-07	1200
164.0	111	4.878E-08	3.302E-07	1200
166.0	90	5.597E-08	2.687E-07	1200
168.0	172	1.062E-07	5.098E-07	1200
170.0	131	8.002E-08	3.884E-07	1200
172.0	326	2.010E-07	9.606E-07	1200
S 174.0	584	3.428E-07	1.741E-06	1200
S 176.0	482	2.567E-07	1.024E-06	1200
S 178.0	467	2.074E-07	1.381E-06	1200
180.0	621	3.827E-07	1.937E-06	1200
182.0	525	3.234E-07	1.552E-06	1200
184.0	550	3.384E-07	1.627E-06	1200
186.0	519	3.200E-07	1.536E-06	1200
188.0	483	2.977E-07	1.429E-06	1200
190.0	352	2.168E-07	1.041E-06	1200
192.0	351	2.165E-07	1.039E-06	1200
194.0	193	1.194E-07	5.729E-07	1200
196.0	182	1.140E-07	5.519E-07	1200
S 198.0	176	6.541E-08	3.100E-07	1200
200.0	64	4.214E-08	2.023E-07	1200
202.0	7	4.333E-09	2.104E-08	1200

CROSSHAIR INTEGRATE = 1.035E-04 1.609E-03
SEC/CM² 1/SEC

TEST D-26 JULY 21, 1963 1045 TO 1145 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 1600M ALC SAMPLER AT 1.5" DZ 4.8 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 100 DEGREES

AZIMUTH DEGREES	EXPOSURE CM-SEC/CM ²	F/Z SEC/CM ²	F/Z 1/SEC ²	DISTANCE METERS
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114.0	4	2.407E-09	1.295E-08	1600
116.0	26	1.208E-08	5.988E-08	1600
118.0	8	5.098E-09	2.428E-08	1600
120.0	4	3.045E-09	1.457E-08	1600
122.0	6	2.006E-09	1.942E-08	1600
124.0	22	1.382E-08	6.636E-08	1600
126.0	22	1.382E-08	6.636E-08	1600
128.0	117	7.209E-08	3.480E-07	1600
130.0	115	7.091E-08	3.399E-07	1600
132.0	72	4.451E-08	2.136E-07	1600
134.0	109	6.740E-08	3.237E-07	1600
136.0	123	7.587E-08	3.642E-07	1600
S 138.0	154	9.508E-08	4.564E-07	1600
140.0	221	1.364E-07	6.555E-07	1600
142.0	214	1.318E-07	6.322E-07	1600
144.0	103	4.800E-08	2.224E-07	1600
146.0	94	5.800E-08	2.784E-07	1600
148.0	113	6.980E-08	3.350E-07	1600
150.0	92	5.665E-08	2.714E-07	1600
152.0	43	2.607E-08	1.295E-07	1600
S 154.0	67	4.181E-08	2.007E-07	1600
156.0	28	6.069E-08	2.913E-07	1600
158.0	124	7.554E-08	3.678E-07	1600
160.0	118	7.317E-08	3.512E-07	1600
162.0	67	4.147E-08	1.991E-07	1600
164.0	73	4.562E-08	2.185E-07	1600
166.0	59	3.675E-08	1.764E-07	1600
168.0	50	3.102E-08	1.484E-07	1600
170.0	44	2.765E-08	1.327E-07	1600
172.0	103	4.834E-08	2.240E-07	1600
174.0	221	1.359E-07	6.522E-07	1600
176.0	230	1.420E-07	6.814E-07	1600
178.0	192	1.184E-07	5.681E-07	1600
180.0	104	4.800E-08	2.224E-07	1600
182.0	143	1.005E-07	4.823E-07	1600
184.0	133	9.183E-08	3.933E-07	1600
S 186.0	76	5.800E-08	2.784E-07	1600
188.0	68	4.214E-08	2.023E-07	1600
190.0	81	5.024E-08	2.412E-07	1600
192.0	41	3.776E-08	1.813E-07	1600
194.0	105	4.508E-08	2.124E-07	1600
196.0	171	6.272E-08	3.010E-07	1600
S 198.0	11	2.031E-09	1.039E-08	1600

CROSS SECTION INTEGRATED = 1.417E-04 1.803E-04
 SEC/CM² 1/SEC²

UNSTABLE SERIES EXPERIMENT: 27 (U-27)
GROUND LEVEL SAMPLING 100-1600 M ARCS. FOR EASE IN STATISTICAL
ANALYSIS, ALL SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES
FROM THEIR ACTUAL POSITIONS.

TEST U-27 AUGUST 19, 1963 125R TO 135R PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
100M ARC SAMPLER HT 1.5M U= 3.3 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10 ⁻⁴	F/Z SEC/CM ²	F/Z 1/SEC	DISTANCE METERS
10.0	49340	2.821E-05	9.309E-05	100
14.0	48886	2.679E-05	8.841E-05	100
18.0	38943	2.228E-05	7.351E-05	100
22.0	3129	1.788E-06	5.002E-06	100
26.0	23804	1.360E-05	4.089E-05	100
30.0	18297	1.040E-05	3.433E-05	100
34.0	17422	9.940E-06	3.282E-05	100
38.0	10876	6.215E-06	2.051E-05	100
42.0	10541	6.035E-06	1.992E-05	100
46.0	12589	7.104E-06	2.374E-05	100
50.0	13481	7.704E-06	2.542E-05	100
54.0	24219	1.384E-05	4.567E-05	100
58.0	24194	1.407E-05	4.940E-05	100
62.0	10166	5.800E-06	1.917E-05	100
66.0	13694	1.125E-05	3.714E-05	100
70.0	22509	1.280E-05	4.252E-05	100
74.0	23878	1.364E-05	4.503E-05	100
78.0	25915	1.481E-05	4.887E-05	100
82.0	24696	1.526E-05	5.034E-05	100
86.0	31533	1.802E-05	5.406E-05	100
90.0	12694	7.254E-06	2.394E-05	100
94.0	7237	4.135E-06	1.365E-05	100
98.0	4702	2.687E-06	8.888E-06	100
102.0	5045	2.893E-06	9.514E-06	100
106.0	7047	4.138E-06	1.333E-05	100
110.0	10415	5.951E-06	1.964E-05	100
114.0	11253	6.431E-06	2.122E-05	100
118.0	9238	5.279E-06	1.742E-05	100
122.0	8994	5.088E-06	1.679E-05	100
126.0	9450	5.611E-06	1.858E-05	100
130.0	7214	4.123E-06	1.360E-05	100
134.0	7026	4.015E-06	1.325E-05	100
138.0	5345	3.054E-06	1.008E-05	100
142.0	2463	1.400E-06	4.646E-06	100
146.0	603	3.047E-07	1.137E-06	100
150.0	62	3.503E-08	1.186E-07	100

CROSSHAID INTEGRATED= 2.255E-03 7.402E-03
SEC/CM² 1/M

TEST U-27 AUGUST 19, 1963 125R TO 135R PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC SAMPLER HT 1.5M U= 3.3 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10 ⁻⁴	F/Z SEC/CM ²	F/Z 1/SEC	DISTANCE METERS
12.0	4364	2.494E-06	8.230E-06	200
16.0	4225	2.900E-06	1.287E-05	200
20.0	6485	3.706E-06	1.223E-05	200
24.0	5653	3.231E-06	1.066E-05	200
28.0	8645	4.940E-06	1.630E-05	200
32.0	5830	3.332E-06	1.099E-05	200
36.0	3089	1.765E-06	5.826E-06	200
40.0	4722	4.084E-06	1.685E-05	200
44.0	10439	5.965E-06	1.969E-05	200
48.0	4209	4.691E-06	1.588E-05	200
52.0	4861	2.778E-06	9.168E-06	200
56.0	6052	3.458E-06	1.141E-05	200
60.0	8095	4.626E-06	1.527E-05	200
64.0	8105	4.632E-06	1.528E-05	200
68.0	10516	6.009E-06	1.983E-05	200
72.0	9286	5.306E-06	1.751E-05	200
76.0	7961	4.549E-06	1.501E-05	200
80.0	4283	3.568E-06	1.177E-05	200
84.0	4269	2.440E-06	8.051E-06	200
88.0	7808	4.442E-06	1.473E-05	200
92.0	5081	3.132E-06	1.034E-05	200
96.0	3765	2.152E-06	7.100E-06	200
100.0	3731	2.132E-06	7.036E-06	200
104.0	2349	1.343E-06	4.431E-06	200
108.0	6437	3.679E-06	1.214E-05	200
112.0	8870	5.069E-06	1.673E-05	200
116.0	8025	4.586E-06	1.513E-05	200
120.0	8305	4.746E-06	1.566E-05	200
124.0	9198	5.254E-06	1.734E-05	200
128.0	3640	2.080E-06	8.865E-06	200
132.0	2710	1.549E-06	5.111E-06	200
136.0	2387	1.364E-06	4.501E-06	200
140.0	1197	6.843E-07	2.258E-06	200
144.0	1032	5.900E-07	1.947E-06	200
148.0	691	3.952E-07	1.304E-06	200
152.0	873	4.990E-07	1.647E-06	200

CROSSHAID INTEGRATED= 1.677E-03 5.533E-03
SEC/CM² 1/M

TEST U-27 AUGUST 19, 1963 1250 TO 1350 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M U= 3.3 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	F/D 1/SEC	DISTANCE METERS
10.0	791	4.520E-07	1.493E-06	300
14.0	836	4.703E-07	1.578E-06	300
18.0	1137	6.500E-07	2.145E-06	300
22.0	2147	1.227E-06	4.049E-06	300
Q 26.0	1941	1.121E-06	3.699E-06	300
Q 30.0	2649	1.514E-06	4.994E-06	300
Q 34.0	1941	1.121E-06	3.699E-06	300
Q 38.0	1941	1.121E-06	3.699E-06	300
42.0	5009	2.862E-06	9.446E-06	300
46.0	5800	3.317E-06	1.101E-05	300
50.0	6749	3.879E-06	1.280E-05	300
54.0	11344	4.482E-06	2.139E-05	300
58.0	7350	4.200E-06	1.386E-05	300
62.0	5027	2.873E-06	9.481E-06	300
66.0	3912	2.234E-06	7.378E-06	300
70.0	3836	2.192E-06	7.234E-06	300
74.0	3273	1.870E-06	6.172E-06	300
78.0	5983	3.419E-06	1.128E-05	300
82.0	6038	3.451E-06	1.139E-05	300
86.0	5665	3.237E-06	1.068E-05	300
90.0	5684	3.240E-06	1.072E-05	300
94.0	10778	6.159E-06	2.033E-05	300
98.0	6175	3.520E-06	1.164E-05	300
102.0	4797	2.742E-06	9.447E-06	300
106.0	3054	1.745E-06	5.759E-06	300
110.0	3366	1.724E-06	6.308E-06	300
114.0	3092	1.739E-06	5.737E-06	300
Z 118.0	357	2.013E-07	6.743E-07	300
Z 122.0	5212	2.779E-06	9.829E-06	300
126.0	2808	1.608E-06	5.296E-06	300
130.0	1913	1.028E-06	3.609E-06	300
134.0	1071	6.124E-07	2.021E-06	300
138.0	854	4.844E-07	1.612E-06	300
142.0	553	3.160E-07	1.043E-06	300
146.0	424	2.325E-07	8.003E-07	300
150.0	171	2.924E-08	3.242E-07	300

CROSSWIND INTEGRATED= 1.601E-03
SEC/SEC

TEST U-27 AUGUST 19, 1963 1250 TO 1350 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 3.3 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	F/D 1/SEC	DISTANCE METERS
12.0	344	1.740E-07	5.703E-07	400
16.0	130	7.466E-08	2.464E-07	400
20.0	316	1.908E-07	5.965E-07	400
24.0	1017	5.816E-07	1.919E-06	400
28.0	1916	5.912E-07	1.917E-06	400
32.0	1204	6.802E-07	2.271E-06	400
36.0	710	4.059E-07	1.339E-06	400
40.0	2788	1.991E-06	5.250E-06	400
44.0	5979	3.417E-06	1.128E-05	400
48.0	4213	2.008E-06	7.905E-06	400
52.0	3224	1.842E-06	6.080E-06	400
56.0	4983	2.988E-06	9.398E-06	400
60.0	4628	2.645E-06	8.729E-06	400
64.0	3833	2.190E-06	7.228E-06	400
68.0	2787	1.593E-06	5.257E-06	400
72.0	4732	2.704E-06	8.923E-06	400
76.0	4092	2.339E-06	7.717E-06	400
80.0	4909	2.806E-06	9.259E-06	400
84.0	2963	1.490E-06	5.589E-06	400
88.0	6025	3.958E-06	1.306E-05	400
92.0	7774	4.444E-06	1.466E-05	400
96.0	8428	4.816E-06	1.589E-05	400
100.0	2293	1.305E-06	4.305E-06	400
104.0	2025	1.158E-06	3.820E-06	400
108.0	1462	8.350E-07	2.758E-06	400
112.0	1674	2.571E-07	3.158E-06	400
116.0	2421	1.340E-06	4.566E-06	400
120.0	2923	1.671E-06	5.513E-06	400
124.0	4153	2.373E-06	7.832E-06	400
128.0	2426	1.327E-06	4.576E-06	400
132.0	1794	1.027E-06	3.388E-06	400
136.0	1159	6.620E-07	2.186E-06	400
140.0	743	4.249E-07	1.402E-06	400
144.0	277	1.543E-07	5.224E-07	400
148.0	270	1.544E-07	5.094E-07	400
152.0	177	1.016E-07	3.353E-07	400

CROSSWIND INTEGRATED= 1.608E-03
SEC/SEC

TEST 4-27 AUGUST 19, 1963 1258 TO 1358 PST
ZINC SULFIDE REFLECTANCE FROM ELEVATION OF 56M
500M ARC SAMPLER HT 1.5M U= 3.3 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	FZC SEC/CM ²	FZC 1/SEC	DISTANCE METERS
26.0	79	1.547E-08	1.500E-07	500
30.0	168	2.655E-08	3.186E-07	500
34.0	423	2.818E-07	9.299E-07	500
38.0	1453	8.308E-07	2.742E-06	500
42.0	1150	6.573E-07	2.169E-06	500
46.0	2691	1.518E-06	5.076E-06	500
50.0	1783	1.019E-06	3.364E-06	500
54.0	2149	1.228E-06	4.053E-06	500
58.0	2710	1.561E-06	5.150E-06	500
62.0	1815	1.017E-06	3.423E-06	500
66.0	2426	1.347E-06	4.576E-06	500
70.0	3809	2.200E-06	7.260E-06	500
74.0	1290	1.137E-06	3.753E-06	500
78.0	3174	1.814E-06	5.987E-06	500
82.0	2529	1.449E-06	4.770E-06	500
86.0	3323	1.939E-06	6.398E-06	500
90.0	5851	3.344E-06	1.104E-05	500
94.0	4786	2.735E-06	9.025E-06	500
98.0	1570	0.974E-07	2.962E-06	500
102.0	1463	8.364E-07	2.760E-06	500
106.0	1034	5.011E-07	1.951E-06	500
110.0	643	3.677E-07	1.213E-06	500
114.0	430	2.459E-07	8.114E-07	500
118.0	1041	5.950E-07	1.964E-06	500
122.0	1666	9.521E-07	3.142E-06	500
126.0	1866	1.067E-06	3.520E-06	500
130.0	2009	1.148E-06	3.788E-06	500
134.0	1194	6.826E-07	2.253E-06	500
138.0	479	2.739E-07	9.040E-07	500
142.0	603	3.447E-07	1.137E-06	500
146.0	132	7.578E-08	2.501E-07	500
150.0	74	4.266E-08	1.408E-07	500

CROSS-SECTION INTEGRATED= 1.132E-03 3.730E-03
SEC/CM² 1/IN

TEST 4-27 AUGUST 19, 1963 1258 TO 1358 PST
ZINC SULFIDE REFLECTANCE FROM ELEVATION OF 56M
600M ARC SAMPLER HT 1.5M U= 3.3 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	FZC SEC/CM ²	FZC 1/SEC	DISTANCE METERS
24.0	16	0.503E-09	3.149E-08	600
28.0	16	0.543E-09	3.149E-08	600
32.0	28	1.628E-08	5.372E-08	600
36.0	225	1.690E-07	5.576E-07	600
40.0	277	1.583E-07	5.224E-07	600
44.0	557	3.188E-07	1.052E-06	600
48.0	1074	6.141E-07	2.027E-06	600
52.0	882	5.081E-07	1.660E-06	600
56.0	1058	6.006E-07	1.995E-06	600
60.0	1868	1.068E-06	3.523E-06	600
64.0	1779	1.017E-06	3.355E-06	600
68.0	1806	1.084E-06	3.577E-06	600
72.0	2106	1.200E-06	3.972E-06	600
76.0	2305	1.342E-06	4.429E-06	600
80.0	1965	1.123E-06	3.707E-06	600
84.0	1629	9.313E-07	3.073E-06	600
88.0	3479	1.988E-06	6.561E-06	600
92.0	2650	1.515E-06	4.998E-06	600
96.0	1947	1.113E-06	3.672E-06	600
100.0	932	5.327E-07	1.758E-06	600
104.0	726	8.158E-07	1.371E-06	600
108.0	460	2.633E-07	8.688E-07	600
112.0	573	3.278E-07	1.082E-06	600
116.0	645	3.688E-07	1.217E-06	600
120.0	356	2.038E-07	6.724E-07	600
124.0	1053	6.018E-07	1.986E-06	600
128.0	822	5.103E-07	1.684E-06	600
132.0	332	1.897E-07	6.261E-07	600
136.0	71	0.490E-08	1.352E-07	600

CROSS-SECTION INTEGRATED= 7.642E-04 2.522E-03
SEC/CM² 1/IN

TEST U-27 AUGUST 19, 1963 125A TO 135A PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
ROOM ARC SAMPLER HT 1.5M U= 3.3 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/G SEC/CM ²	F/G 1/SEC	DISTANCE METERS
13.0	20	1.179E-08	3.890E-08	800
16.0	20	1.179E-08	3.890E-08	800
19.0	45	2.582E-08	8.521E-08	800
22.0	17	1.010E-08	3.334E-08	800
25.0	67	1.873E-08	1.278E-07	800
28.0	92	5.277E-08	1.741E-07	800
31.0	137	7.859E-08	2.593E-07	800
34.0	161	9.204E-08	3.036E-07	800
37.0	147	8.420E-08	2.779E-07	800
40.0	302	1.729E-07	5.706E-07	800
43.0	325	1.858E-07	6.132E-07	800
46.0	220	1.257E-07	4.150E-07	800
49.0	328	1.875E-07	6.187E-07	800
52.0	97	5.557E-08	1.834E-07	800
55.0	500	2.857E-07	9.429E-07	800
58.0	688	3.935E-07	1.299E-06	800
61.0	509	3.024E-07	1.130E-06	800
64.0	940	5.372E-07	1.773E-06	800
67.0	783	4.480E-07	1.478E-06	800
70.0	714	4.091E-07	1.347E-06	800
P 73.0	1237	7.073E-07	2.334E-06	800
P 76.0	946	5.004E-07	1.784E-06	800
P 79.0	939	5.367E-07	1.771E-06	800
82.0	425	2.433E-07	8.021E-07	800
85.0	509	2.913E-07	9.614E-07	800
88.0	740	4.233E-07	1.397E-06	800
91.0	1042	5.956E-07	1.965E-06	800
94.0	999	5.709E-07	1.884E-06	800
97.0	688	3.935E-07	1.299E-06	800
100.0	368	2.185E-07	6.947E-07	800
103.0	146	8.368E-08	2.760E-07	800
106.0	159	9.024E-08	3.001E-07	800
109.0	167	9.543E-08	3.109E-07	800
112.0	151	8.645E-08	2.853E-07	800
115.0	246	1.009E-07	4.650E-07	800
118.0	491	2.751E-07	9.077E-07	800
121.0	428	2.447E-07	8.077E-07	800
124.0	567	3.245E-07	1.071E-06	800
127.0	409	2.341E-07	7.725E-07	800
130.0	106	6.063E-08	2.001E-07	800
133.0	92	5.277E-08	1.741E-07	800
136.0	72	4.150E-08	1.371E-07	800
139.0	28	1.628E-08	5.372E-08	800

CROSSWIND INTEGRATED: 1.108E-04
SEC/CM² 1/4

TEST U-27 AUGUST 19, 1963 125A TO 135A PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 3.3 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/G SEC/CM ²	F/G 1/SEC	DISTANCE METERS
44.0	4	2.301E-09	7.594E-09	1200
46.0	4	2.391E-09	7.594E-09	1200
48.0	10	6.286E-09	2.061E-08	1200
50.0	18	2.203E-08	7.269E-08	1200
52.0	14	8.219E-09	2.712E-08	1200
54.0	55	1.189E-08	1.052E-07	1200
56.0	81	4.668E-08	1.541E-07	1200
58.0	151	8.645E-08	2.853E-07	1200
60.0	158	9.041E-08	2.983E-07	1200
62.0	154	8.843E-08	2.916E-07	1200
64.0	90	5.161E-08	1.703E-07	1200
66.0	87	4.997E-08	1.649E-07	1200
68.0	281	1.408E-07	5.305E-07	1200
70.0	199	1.191E-07	3.765E-07	1200
72.0	303	1.963E-07	6.477E-07	1200
74.0	484	2.771E-07	9.146E-07	1200
76.0	400	2.288E-07	7.551E-07	1200
78.0	359	2.055E-07	6.780E-07	1200
80.0	329	1.884E-07	6.216E-07	1200
82.0	352	2.015E-07	6.650E-07	1200
84.0	516	2.949E-07	9.731E-07	1200
86.0	368	2.185E-07	6.943E-07	1200
88.0	265	1.519E-07	5.012E-07	1200
90.0	331	1.948E-07	6.249E-07	1200
92.0	320	1.831E-07	6.043E-07	1200
F 94.0	297	1.700E-07	5.609E-07	1200
96.0	236	1.351E-07	4.459E-07	1200
98.0	153	8.745E-08	2.886E-07	1200
100.0	157	9.024E-08	2.973E-07	1200
102.0	77	4.405E-08	1.454E-07	1200
104.0	96	5.090E-08	1.812E-07	1200
G 106.0	95	5.457E-08	1.801E-07	1200
G 108.0	78	8.471E-08	1.475E-07	1200
110.0	102	5.952E-08	1.931E-07	1200
112.0	71	4.074E-08	1.345E-07	1200
114.0	73	4.208E-08	1.389E-07	1200
116.0	52	3.025E-08	9.981E-08	1200
118.0	81	4.668E-08	1.541E-07	1200
120.0	56	3.255E-08	1.074E-07	1200
122.0	116	6.678E-08	2.202E-07	1200
124.0	120	6.904E-08	2.278E-07	1200
Q 126.0	101	5.819E-08	1.920E-07	1200
Q 128.0	105	6.049E-08	1.996E-07	1200
130.0	21	1.216E-08	4.018E-08	1200
132.0	33	1.948E-08	6.401E-08	1200
134.0	21	1.249E-08	4.123E-08	1200
136.0	17	1.019E-08	3.363E-08	1200
138.0	4	4.603E-09	1.519E-08	1200
140.0	8	2.391E-09	7.594E-09	1200
142.0	8	2.638E-09	8.679E-09	1200
144.0	12	7.233E-09	2.387E-08	1200
146.0	0	0.000E+00	0.000E+00	1200
148.0	3	1.273E-09	4.509E-09	1200
150.0	12	7.233E-09	2.387E-08	1200
152.0	4	2.638E-09	8.679E-09	1200

CROSSWIND INTEGRATED: 1.829E-04
SEC/CM² 1/4

TEST U-27 AUGUST 19, 1963 1258 TO 1358 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 1600M ARC SAMPLER PI 1.5M U= 3.3 M/SEC AT 56M

SAMPLED AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M K10E+6	F/C SEC/CU.M	F/U/O 1/90,M	DISTANCE METERS
54.0	15	8.876E-09	2.929E-08	1600
56.0	12	7.233E-09	2.387E-08	1600
58.0	14	9.219E-09	2.712E-08	1600
60.0	17	1.019E-08	3.363E-08	1600
62.0	29	1.677E-08	5.533E-08	1600
64.0	12	6.904E-09	2.278E-08	1600
7 66.0	56	3.222E-08	1.063E-07	1600
7 68.0	99	5.687E-08	1.877E-07	1600
70.0	123	7.068E-08	2.332E-07	1600
72.0	218	1.249E-07	4.123E-07	1600
74.0	73	4.175E-08	1.378E-07	1600
76.0	142	9.153E-08	2.691E-07	1600
78.0	75	4.340E-08	1.432E-07	1600
80.0	67	3.846E-08	1.269E-07	1600
82.0	146	8.350E-08	2.756E-07	1600
84.0	170	9.748E-08	3.222E-07	1600
86.0	151	8.679E-08	2.864E-07	1600
88.0	178	1.019E-07	3.363E-07	1600
90.0	294	1.683E-07	5.555E-07	1600
92.0	166	9.534E-08	3.146E-07	1600
94.0	73	4.208E-08	1.389E-07	1600
96.0	129	7.397E-08	2.441E-07	1600
98.0	86	4.931E-08	1.627E-07	1600
100.0	50	2.803E-08	9.547E-08	1600
102.0	88	2.794E-08	9.221E-08	1600
104.0	83	2.466E-08	8.137E-08	1600
106.0	65	3.715E-08	1.226E-07	1600
108.0	69	3.945E-08	1.302E-07	1600
110.0	67	3.879E-08	1.280E-07	1600
112.0	63	3.616E-08	1.193E-07	1600
114.0	46	2.663E-08	8.788E-08	1600
116.0	55	3.189E-08	1.052E-07	1600
118.0	69	3.978E-08	1.313E-07	1600
120.0	73	4.175E-08	1.378E-07	1600
122.0	32	1.801E-08	6.075E-08	1600
124.0	44	2.560E-08	8.662E-08	1600
126.0	27	1.578E-08	5.207E-08	1600
128.0	33	1.940E-08	6.401E-08	1600
130.0	23	1.348E-08	4.448E-08	1600
132.0	11	6.575E-09	2.170E-08	1600
134.0	5	2.950E-09	9.764E-09	1600
136.0	12	7.233E-09	2.387E-08	1600
138.0	7	4.274E-09	1.410E-08	1600

CROSSWIND INTEGRATED= 1.020E-04 3.380E-04
 SEC/90,M 1/M

UNSTABLE SERIES EXPERIMENT: 28 (U-28)
GROUND LEVEL SAMPLING 100-1600 M ARCS. THE TRACER WAS NOT
DETECTED ON THE 100- OR 200 M ARCS.

TEST U-28 (COPIES 23, 1963) 1000 TO 1100 PST
ZINC SULFATE RELEASE FROM ELEVATION OF 56M
SOLUBLE ZINC RELEASE RATE 1.5% 1E 0.0 1ZSEC AT 56M

AZIMUTH	EXPOSURE	1Z	1Z/2	DISTANCE
DEGREES (N=000) 1Z	SEC/20.1	SEC/20.1	1Z/2	FEET/5
40.0	102	6.410E-07	5.727E-07	300
45.0	176	1.110E-07	5.572E-07	300
52.0	172	4.110E-07	3.510E-07	300
56.0	196	5.620E-07	6.100E-07	300
60.0	111	7.001E-07	6.250E-07	300
64.0	100	7.100E-07	6.180E-07	300
68.0	161	1.120E-07	5.650E-07	300
72.0	20	1.760E-07	1.145E-07	300

CROSS INJ. INTERFERENCE = 1.200E-05
SEC/20.1 1Z

TEST U-28 (COPIES 23, 1963) 1000 TO 1100 PST
ZINC SULFATE RELEASE FROM ELEVATION OF 56M
SOLUBLE ZINC RELEASE RATE 1.5% 1E 0.0 1ZSEC AT 56M

AZIMUTH	EXPOSURE	1Z	1Z/2	DISTANCE
DEGREES (N=000) 1Z	SEC/20.1	SEC/20.1	1Z/2	FEET/5
30.0	0	5.000E-08	1.000E-08	400
42.0	100	7.210E-07	6.050E-07	400
48.0	370	2.520E-07	2.120E-06	400
50.0	276	5.100E-07	4.200E-06	400
54.0	612	4.200E-07	3.000E-06	400
58.0	161	6.000E-07	3.600E-06	400
62.0	172	6.000E-07	3.700E-06	400
66.0	504	6.600E-07	3.900E-06	400
70.0	200	1.000E-07	1.620E-06	400
74.0	71	5.210E-06	6.370E-07	400
78.0	93	6.200E-06	5.230E-07	400
82.0	27	1.000E-07	1.550E-07	400

CROSS INJ. INTERFERENCE = 6.200E-05
SEC/20.1 1Z

TEST U-28 (COPIES 23, 1963) 1000 TO 1100 PST
ZINC SULFATE RELEASE FROM ELEVATION OF 56M
SOLUBLE ZINC RELEASE RATE 1.5% 1E 0.0 1ZSEC AT 56M

AZIMUTH	EXPOSURE	1Z	1Z/2	DISTANCE
DEGREES (N=000) 1Z	SEC/20.1	SEC/20.1	1Z/2	FEET/5
40.0	42	2.220E-07	2.330E-07	500
44.0	332	2.210E-07	1.000E-06	500
48.0	1273	6.000E-07	7.130E-06	500
52.0	2011	1.000E-06	1.350E-05	500
56.0	2040	1.000E-06	1.020E-05	500
60.0	1031	6.100E-07	5.770E-06	500
64.0	1107	7.300E-07	6.200E-06	500
68.0	1273	9.000E-07	7.130E-06	500
72.0	730	4.420E-07	4.130E-06	500
76.0	620	2.000E-07	2.000E-06	500
80.0	173	1.100E-07	9.730E-07	500

CROSS INJ. INTERFERENCE = 2.600E-04
SEC/20.1 1Z

TEST U-28 (COPIES 23, 1963) 1000 TO 1100 PST
ZINC SULFATE RELEASE FROM ELEVATION OF 56M
SOLUBLE ZINC RELEASE RATE 1.5% 1E 0.0 1ZSEC AT 56M

AZIMUTH	EXPOSURE	1Z	1Z/2	DISTANCE
DEGREES (N=000) 1Z	SEC/20.1	SEC/20.1	1Z/2	FEET/5
26.0	0	5.000E-08	0.000E-08	600
30.0	2	0.100E-07	1.000E-09	600
34.0	2	0.100E-07	1.000E-09	600
38.0	70	1.000E-07	1.000E-07	600
42.0	310	2.100E-07	1.700E-06	600
46.0	1075	1.100E-07	1.300E-06	600
50.0	2010	1.100E-07	1.100E-05	600
54.0	3007	2.000E-06	1.000E-05	600
58.0	1001	1.000E-07	1.000E-05	600
62.0	1020	4.100E-07	6.000E-06	600
66.0	1100	7.000E-07	1.000E-06	600
70.0	1000	6.000E-07	6.000E-06	600
74.0	500	3.000E-07	2.000E-06	600
78.0	307	2.000E-07	1.700E-06	600
82.0	132	0.000E-07	7.000E-07	600

CROSS INJ. INTERFERENCE = 0.000E-00
SEC/20.1 1Z

TEST U-28 (COPIES 23, 1963) 1000 TO 1100 PST
ZINC SULFATE RELEASE FROM ELEVATION OF 56M
SOLUBLE ZINC RELEASE RATE 1.5% 1E 0.0 1ZSEC AT 56M

AZIMUTH	EXPOSURE	1Z	1Z/2	DISTANCE
DEGREES (N=000) 1Z	SEC/20.1	SEC/20.1	1Z/2	FEET/5
40.0	0	5.000E-08	0.000E-08	800
44.0	1273	6.000E-07	7.130E-06	800
48.0	2077	1.000E-06	1.000E-05	800
52.0	0000	2.000E-06	2.000E-05	800
56.0	5000	3.000E-06	3.000E-05	800
60.0	5520	3.000E-06	3.000E-05	800
64.0	5321	2.000E-06	1.000E-05	800
68.0	2020	1.000E-06	1.000E-05	800
72.0	2040	1.000E-06	1.000E-05	800
76.0	2100	1.000E-06	1.000E-05	800
80.0	2000	1.000E-06	1.000E-05	800
84.0	2000	1.000E-06	1.000E-05	800
88.0	2000	1.000E-06	1.000E-05	800
92.0	600	2.000E-07	2.000E-06	800

CROSS INJ. INTERFERENCE = 1.000E-03
SEC/20.1 1Z

TEST 11-21 C10 IN 23, 1973 1609 TO 1609 PST
 Z100 SILENT - 341 SEF - 0011 EFF-ATTN: CR 561
 1200 100 5 0100 EFF-ATTN: CR 561 1200 100 561

A21 1110 EFF-ATTN: CR 561 1200 100 561
 CROSS INO INTEGRAL = 1250.0 1250.0 1250.0
 X10 46

38.0	106	7.721E-07	5.005E-07	1200
39.0	104	2.234E-07	1.678E-06	1200
40.0	101	7.561E-07	3.656E-06	1200
42.0	95.7	7.261E-07	1.601E-06	1200
43.0	97.4	4.574E-07	5.150E-06	1200
46.0	121.1	4.509E-07	1.403E-06	1200
48.0	117.7	1.274E-06	1.012E-05	1200
51.0	120.2	1.228E-06	1.032E-05	1200
52.0	272.0	1.517E-06	1.524E-05	1200
54.0	154.0	1.317E-06	1.058E-05	1200
56.0	185.4	1.237E-06	1.039E-05	1200
58.0	175.3	1.277E-06	1.038E-05	1200
61.0	155.4	1.500E-06	8.731E-06	1200
62.0	115.3	7.667E-07	6.457E-06	1200
64.0	158.1	1.055E-06	8.454E-06	1200
66.0	79.2	5.615E-07	4.720E-06	1200
68.0	127.7	8.047E-07	6.760E-06	1200
70.0	117.1	7.541E-07	6.671E-06	1200
72.0	110.3	7.221E-07	6.655E-06	1200
74.0	66.4	3.112E-07	2.614E-06	1200
76.0	20.2	1.509E-07	1.637E-06	1200
78.0	31.1	2.677E-07	1.742E-06	1200
79.0	17.0	1.162E-07	5.763E-07	1200
82.0	5.5	3.035E-08	3.304E-07	1200
84.0	3.1	7.321E-09	6.150E-08	1200

CROSS INO INTEGRAL = 7.348E-08 6.206E-03
 SECFZS 1/2

TEST 11-22 C10 IN 23, 1973 1609 TO 1609 PST
 Z100 SILENT - 341 SEF - 0011 EFF-ATTN: CR 561
 1600 100 5 0100 EFF-ATTN: CR 561 1600 100 561

A21 1110 EFF-ATTN: CR 561 1200 100 561
 CROSS INO INTEGRAL = 1250.0 1250.0 1250.0
 X10 46

38.0	132	9.007E-06	7.031E-07	1600
40.0	103	2.026E-07	1.701E-06	1600
42.0	130	2.005E-07	2.432E-06	1600
44.0	71.7	1.206E-07	6.020E-06	1600
46.0	153	3.024E-07	2.502E-06	1600
48.0	110.4	7.374E-07	6.211E-06	1600
50.0	77.9	5.105E-07	6.364E-06	1600
52.0	52.3	3.900E-07	2.531E-06	1600
54.0	102.6	6.302E-07	5.748E-06	1600
56.0	116.6	7.776E-07	1.532E-06	1600
58.0	54.6	3.645E-07	3.162E-06	1600
60.0	48.5	3.237E-07	2.719E-06	1600
62.0	121.5	8.120E-07	6.821E-06	1600
64.0	62.1	4.105E-07	3.090E-06	1600
66.0	49.4	3.322E-07	2.790E-06	1600
68.0	64.6	4.268E-07	3.585E-06	1600
70.0	37.3	2.402E-07	2.094E-06	1600
72.0	42.1	2.513E-07	2.363E-06	1600
74.0	9.5	6.305E-08	5.330E-07	1600
76.0	12.5	6.309E-08	7.047E-07	1600
78.0	20.3	1.357E-07	1.140E-06	1600
80.0	5.6	3.874E-08	3.254E-07	1600

CROSS INO INTEGRAL = 0.405E-06 3.734E-03
 SECFZS 1/2

UNSTABLE SERIES EXPERIMENT: 29 (U-29)

GROUND LEVEL SAMPLING 100-1600 M ARCS. FOR EASE IN STATISTICAL ANALYSIS, ALL SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES FROM THEIR ACTUAL POSITIONS.

TEST U-29 OCTOBER 29, 1963 1419 TO 1519 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
100M ARC SAMPLER HT 1.5M U= 2.4 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE CM-SEC/CM X10F+6	W/D SEC/CM X10F+6	W/D 1/SEC X10F+6	DISTANCE METERS
10.0	05	2.582E-08	6.197E-08	100
14.0	36	2.377E-08	4.985E-08	100
18.0	1	1.123E-09	2.694E-09	100
22.0	13	7.850E-09	1.886E-08	100
26.0	67	1.473E-08	9.298E-08	100
30.0	1	1.123E-09	2.694E-09	100
34.0	22	1.291E-08	3.099E-08	100
38.0	5	3.348E-09	8.083E-09	100
42.0	0	0.000E+00	0.000E+00	100
46.0	48	2.751E-08	6.601E-08	100
50.0	138	7.691E-08	1.846E-07	100
54.0	1950	1.115E-06	2.676E-06	100
58.0	5715	1.266E-06	7.838E-06	100
62.0	12774	7.301E-06	1.792E-05	100
66.0	8515	4.866E-06	1.168E-05	100
70.0	8070	4.611E-06	1.107E-05	100
74.0	5568	3.182E-06	7.636E-06	100
78.0	6923	3.956E-06	9.495E-06	100
82.0	5552	3.174E-06	7.617E-06	100
86.0	3954	2.260E-06	5.424E-06	100
90.0	2553	1.459E-06	3.501E-06	100
94.0	1974	1.120E-06	2.708E-06	100
98.0	1660	9.509E-07	2.282E-06	100
102.0	1966	1.124E-06	2.697E-06	100
106.0	2789	1.594E-06	3.826E-06	100
110.0	6052	3.687E-06	8.849E-06	100
114.0	9658	5.519E-06	1.325E-05	100
118.0	8240	4.709E-06	1.130E-05	100
122.0	7292	4.167E-06	1.000E-05	100
126.0	7483	4.276E-06	1.026E-05	100
130.0	3934	2.208E-06	5.396E-06	100
134.0	4950	2.820E-06	6.789E-06	100
138.0	9268	2.839E-06	6.814E-06	100
142.0	2571	1.470E-06	3.527E-06	100
146.0	4909	2.201E-06	5.498E-06	100
150.0	2709	1.508E-06	3.716E-06	100

CROSSWIND INTEGRATED= 5.291E-08
SEC/SEC
1/M

TEST U-29 OCTOBER 29, 1963 1419 TO 1519 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC SAMPLER HT 1.5M U= 2.4 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE CM-SEC/CM X10F+6	W/D SEC/CM X10F+6	W/D 1/SEC X10F+6	DISTANCE METERS
16.0	26	1.516E-08	3.638E-08	200
20.0	21	1.235E-08	2.966E-08	200
24.0	2	1.600E-09	4.002E-09	200
28.0	11	6.736E-09	1.617E-08	200
32.0	15	9.922E-09	2.156E-08	200
36.0	55	3.200E-08	7.679E-08	200
40.0	122	7.017E-08	1.694E-07	200
44.0	12	7.208E-09	1.751E-08	200
48.0	14	8.420E-09	2.021E-08	200
52.0	188	1.078E-07	2.587E-07	200
56.0	85	4.884E-08	1.172E-07	200
60.0	56	3.258E-08	7.814E-08	200
64.0	151	8.645E-08	2.075E-07	200
68.0	298	1.650E-07	3.961E-07	200
72.0	202	1.156E-07	2.775E-07	200
76.0	407	2.560E-07	6.143E-07	200
80.0	613	3.508E-07	8.420E-07	200
84.0	1856	1.061E-06	2.546E-06	200
88.0	2789	1.594E-06	3.826E-06	200
92.0	2124	1.214E-06	2.914E-06	200
96.0	1707	9.756E-07	2.302E-06	200
100.0	1908	1.113E-06	2.672E-06	200
104.0	1966	1.124E-06	2.697E-06	200
108.0	4277	2.800E-06	5.866E-06	200
112.0	9053	5.173E-06	1.242E-05	200
116.0	10092	5.767E-06	1.384E-05	200
120.0	19530	1.116E-05	2.679E-05	200
124.0	7608	4.348E-06	1.083E-05	200
128.0	7111	4.064E-06	9.753E-06	200
132.0	7554	4.317E-06	1.036E-05	200
136.0	1417	8.100E-07	1.944E-06	200
140.0	5480	3.132E-06	7.516E-06	200
144.0	3627	2.973E-06	6.975E-06	200
148.0	1922	1.920E-06	2.637E-06	200
152.0	717	4.098E-07	9.835E-07	200
E 156.0	26	5.501E-08	1.320E-07	200
F 160.0	17	1.010E-08	2.425E-08	200

CROSSWIND INTEGRATED= 7.492E-08
SEC/SEC
1/M

TEST U-29 OCTOBER 29, 1963 1419 TO 1519 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M W= 2.4 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. ² X10E+6	F/Z SEC/CM. ²	FU/Z 1/SG.M	DISTANCE METERS
50.0	11	6.736E-09	1.617E-08	300
50.0	4	2.807E-09	6.736E-09	300
58.0	79	4.547E-08	1.091E-07	300
62.0	12	7.298E-09	1.751E-08	300
66.0	37	2.133E-08	5.120E-08	300
70.0	411	2.352E-07	5.605E-07	300
74.0	558	3.190E-07	7.666E-07	300
78.0	3133	1.791E-06	4.298E-06	300
82.0	5315	3.037E-06	7.290E-06	300
86.0	5710	3.263E-06	7.832E-06	300
90.0	3419	1.954E-06	4.690E-06	300
94.0	2952	1.687E-06	4.048E-06	300
98.0	10521	6.012E-06	1.443E-05	300
102.0	12592	7.106E-06	1.727E-05	300
106.0	5195	2.969E-06	7.126E-06	300
110.0	5347	3.056E-06	7.334E-06	300
114.0	9429	5.304E-06	1.293E-05	300
118.0	12268	7.011E-06	1.683E-05	300
122.0	13350	7.629E-06	1.831E-05	300
126.0	6419	3.668E-06	8.800E-06	300
130.0	7045	4.037E-06	9.689E-06	300
134.0	4115	2.351E-06	5.644E-06	300
138.0	4170	2.393E-06	5.719E-06	300
142.0	3459	1.977E-06	4.745E-06	300
146.0	1256	7.180E-07	1.723E-06	300
150.0	1248	7.135E-07	1.712E-06	300
F 154.0	587	3.357E-07	8.057E-07	300
F 158.0	56	3.256E-08	7.814E-08	300

CROSSWIND INTEGRATED= 1.421E-03 3.410E-03
SEC/SG.M 1/M

TEST U-29 OCTOBER 29, 1963 1419 TO 1519 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M W= 2.4 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. ² X10E+6	F/Z SEC/CM. ²	FU/Z 1/SG.M	DISTANCE METERS
68.0	149	8.533E-08	2.048E-07	400
72.0	1770	1.016E-06	2.439E-06	400
76.0	4803	2.745E-06	6.588E-06	400
80.0	7594	4.300E-06	1.082E-05	400
84.0	4896	2.798E-06	6.715E-06	400
88.0	7035	4.020E-06	9.649E-06	400
92.0	4669	2.668E-06	6.403E-06	400
96.0	4656	2.661E-06	6.386E-06	400
100.0	6426	3.041E-06	9.058E-06	400
104.0	9657	5.519E-06	1.324E-05	400
108.0	11406	6.519E-06	1.564E-05	400
112.0	8374	4.742E-06	1.103E-05	400
116.0	12201	6.973E-06	1.673E-05	400
120.0	15452	8.830E-06	2.119E-05	400
124.0	9244	5.282E-06	1.268E-05	400
128.0	5195	2.969E-06	7.126E-06	400
132.0	4464	2.551E-06	6.123E-06	400
136.0	2827	1.616E-06	3.877E-06	400
140.0	1828	1.045E-06	2.507E-06	400
144.0	1213	6.953E-07	1.664E-06	400
148.0	622	3.441E-07	8.259E-07	400
152.0	1339	7.657E-07	1.838E-06	400
F 156.0	192	1.100E-07	2.641E-07	400
F 160.0	15	8.922E-09	2.156E-08	400

CROSSWIND INTEGRATED= 2.018E-03 4.843E-03
SEC/SG.M 1/M

TEST U-29 OCTOBER 29, 1963 1419 TO 1519 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M W= 2.4 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. ² X10E+6	F/Z SEC/CM. ²	FU/Z 1/SG.M	DISTANCE METERS
70.0	352	2.015E-07	4.837E-07	500
74.0	1356	7.752E-07	1.861E-06	500
78.0	6729	3.845E-06	9.229E-06	500
82.0	3313	1.803E-06	4.540E-06	500
86.0	4138	2.365E-06	5.676E-06	500
90.0	3664	2.000E-06	5.025E-06	500
94.0	1624	2.683E-07	2.320E-06	500
98.0	4485	2.543E-06	6.152E-06	500
102.0	13275	7.586E-06	1.821E-05	500
106.0	13446	7.798E-06	1.871E-05	500
110.0	10210	5.835E-06	1.400E-05	500
114.0	7852	4.487E-06	1.077E-05	500
118.0	13605	7.775E-06	1.866E-05	500
122.0	8806	5.033E-06	1.208E-05	500
126.0	4959	2.840E-06	6.802E-06	500
130.0	3581	2.007E-06	4.912E-06	500
134.0	2747	1.570E-06	3.768E-06	500
138.0	2268	1.296E-06	3.111E-06	500
142.0	1518	8.678E-07	2.083E-06	500
146.0	1099	5.771E-07	1.385E-06	500
150.0	616	3.525E-07	8.461E-07	500
E 154.0	488	2.700E-07	6.696E-07	500
F 158.0	55	3.200E-08	7.679E-08	500

CROSSWIND INTEGRATED= 2.202E-03 5.288E-03
SEC/SG.M 1/M

TEST U-29 OCTOBER 29, 1963 1419 TO 1519 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M W= 2.4 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. ² X10E+6	F/Z SEC/CM. ²	FU/Z 1/SG.M	DISTANCE METERS
72.0	153	8.757E-08	2.102E-07	600
74.0	1236	7.067E-07	1.676E-06	600
80.0	2397	1.370E-06	3.249E-06	600
84.0	4866	2.781E-06	6.674E-06	600
88.0	3426	1.958E-06	4.699E-06	600
92.0	2817	1.610E-06	3.864E-06	600
96.0	1927	1.101E-06	2.739E-06	600
100.0	7384	4.220E-06	1.013E-05	600
104.0	9120	5.212E-06	1.251E-05	600
108.0	7735	4.420E-06	1.041E-05	600
112.0	11855	6.774E-06	1.626E-05	600
116.0	9096	5.146E-06	1.235E-05	600
120.0	8645	4.900E-06	1.184E-05	600
124.0	6368	3.649E-06	8.734E-06	600
128.0	3413	1.941E-06	4.682E-06	600
132.0	1953	1.117E-06	2.680E-06	600
136.0	1768	1.010E-06	2.425E-06	600
140.0	681	3.806E-07	9.350E-07	600
144.0	465	2.661E-07	6.386E-07	600
148.0	364	2.083E-07	4.990E-07	600
152.0	229	1.314E-07	3.153E-07	600
156.0	86	4.940E-08	1.186E-07	600

CROSSWIND INTEGRATED= 2.058E-03 4.939E-03
SEC/SG.M 1/M

TEST U-29 OCTOBER 29, 1963 1419 TO 1519 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
ROOM ARC SAMPLER HT 1.5M W= 2.4 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	F/D 1/SEC	DISTANCE METERS
73.0	139	7.971E-08	1.913E-07	800
76.0	334	1.914E-07	4.594E-07	800
79.0	1822	1.041E-06	2.499E-06	800
P 82.0	1962	1.122E-06	2.692E-06	800
P 85.0	2945	1.683E-06	4.039E-06	800
P 88.0	2708	1.571E-06	3.770E-06	800
P 91.0	1962	1.122E-06	2.692E-06	800
94.0	2146	1.227E-06	2.944E-06	800
97.0	4503	2.573E-06	6.176E-06	800
100.0	3543	2.025E-06	4.859E-06	800
103.0	9392	5.367E-06	1.288E-05	800
106.0	5776	3.301E-06	7.922E-06	800
D 109.0	2373	1.356E-06	3.255E-06	800
112.0	5823	3.328E-06	7.986E-06	800
115.0	6964	3.981E-06	9.555E-06	800
118.0	4720	2.697E-06	6.473E-06	800
121.0	4830	2.760E-06	6.624E-06	800
124.0	3385	1.939E-06	4.643E-06	800
127.0	1899	1.086E-06	2.606E-06	800
130.0	2269	1.297E-06	3.112E-06	800
133.0	890	5.086E-07	1.221E-06	800
136.0	1057	6.040E-07	1.450E-06	800
139.0	419	2.397E-07	5.753E-07	800
142.0	502	2.870E-07	6.898E-07	800
145.0	289	1.026E-07	3.422E-07	800
148.0	304	1.740E-07	4.176E-07	800
151.0	96	5.501E-08	1.320E-07	800
154.0	27	1.572E-08	3.772E-08	800
CROSSWIND INTEGRATED= 1.750E-03 4.199E-03				
SEC/SEC 1/M				

TEST U-29 OCTOBER 29, 1963 1419 TO 1519 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
ROOM ARC SAMPLER HT 1.5M W= 2.4 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	F/D 1/SEC	DISTANCE METERS
74.0	11	6.575E-09	1.578E-08	1200
76.0	93	5.326E-08	1.278E-07	1200
78.0	167	4.600E-08	2.304E-07	1200
80.0	790	4.517E-07	1.084E-06	1200
82.0	532	3.941E-07	7.298E-07	1200
84.0	675	3.833E-07	9.271E-07	1200
86.0	616	3.521E-07	8.450E-07	1200
88.0	513	3.051E-07	7.322E-07	1200
90.0	520	2.995E-07	7.188E-07	1200
92.0	732	4.108E-07	1.005E-06	1200
94.0	800	4.403E-07	1.153E-06	1200
96.0	1196	6.838E-07	1.641E-06	1200
98.0	952	5.404E-07	1.307E-06	1200
100.0	1627	9.300E-07	2.232E-06	1200
102.0	2083	1.191E-06	2.858E-06	1200
104.0	1732	9.809E-07	2.376E-06	1200
106.0	2337	1.336E-06	3.206E-06	1200
108.0	2000	1.146E-06	2.750E-06	1200
110.0	1379	7.983E-07	1.892E-06	1200
112.0	1933	1.105E-06	2.651E-06	1200
114.0	1625	9.291E-07	2.230E-06	1200
116.0	2110	1.206E-06	2.890E-06	1200
118.0	2000	1.193E-06	2.864E-06	1200
120.0	1511	8.630E-07	2.073E-06	1200
122.0	1294	7.307E-07	1.775E-06	1200
124.0	1139	6.513E-07	1.563E-06	1200
126.0	1123	6.417E-07	1.540E-06	1200
128.0	458	2.620E-07	6.288E-07	1200
130.0	375	2.147E-07	5.192E-07	1200
132.0	306	2.288E-07	5.444E-07	1200
134.0	329	1.880E-07	4.521E-07	1200
136.0	167	9.600E-08	2.308E-07	1200
138.0	355	2.032E-07	4.876E-07	1200
140.0	394	2.252E-07	5.405E-07	1200
142.0	234	1.341E-07	3.219E-07	1200
144.0	63	3.616E-08	8.672E-08	1200
6 146.0	56	3.222E-08	7.732E-08	1200
148.0	36	2.071E-08	4.971E-08	1200
150.0	37	2.170E-08	5.207E-08	1200
152.0	29	1.677E-08	4.024E-08	1200
CROSSWIND INTEGRATED= 4.241E-08 1.087E-03				
SEC/SEC 1/M				

TEST 11-29 DETONEL 29, 1963 1419 TO 1519 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 1600M ARC SAMPLER HI 1.5M VE 2.4 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE CM-SEC/CM ² X10 ⁵ +6	F/D SEC/CM ²	F/D 1/SEC ²	DISTANCE METERS
76.0	74	0.241E-08	1.018E-07	1600
78.0	141	0.245E-08	2.200E-07	1600
80.0	405	3.458E-07	8.300E-07	1600
82.0	724	0.130E-07	0.934E-07	1600
84.0	607	3.472E-07	8.332E-07	1600
86.0	554	3.166E-07	7.598E-07	1600
88.0	691	3.892E-07	0.302E-07	1600
90.0	615	3.514E-07	8.434E-07	1600
92.0	590	3.373E-07	8.005E-07	1600
94.0	617	3.531E-07	8.474E-07	1600
96.0	723	5.216E-07	1.266E-06	1600
98.0	839	0.800E-07	1.152E-06	1600
100.0	1391	7.952E-07	1.900E-06	1600
102.0	1873	1.071E-06	2.570E-06	1600
104.0	2430	1.399E-06	3.334E-06	1600
106.0	3419	1.754E-06	0.689E-06	1600
108.0	2017	1.153E-06	2.768E-06	1600
110.0	1842	1.053E-06	2.526E-06	1600
112.0	1505	8.603E-07	2.065E-06	1600
114.0	1663	0.507E-07	2.282E-06	1600
116.0	1467	8.396E-07	2.013E-06	1600
118.0	1530	8.745E-07	2.090E-06	1600
120.0	1844	1.054E-06	2.530E-06	1600
122.0	1215	6.043E-07	1.646E-06	1600
124.0	1546	8.937E-07	2.121E-06	1600
126.0	1350	7.716E-07	1.852E-06	1600
128.0	703	4.017E-07	9.642E-07	1600
130.0	491	2.888E-07	6.738E-07	1600
132.0	250	1.430E-07	3.432E-07	1600
134.0	77	4.405E-08	1.057E-07	1600
136.0	61	3.518E-08	8.442E-08	1600
138.0	132	7.561E-08	1.815E-07	1600
140.0	219	1.266E-07	3.014E-07	1600
142.0	102	5.985E-08	1.412E-07	1600
144.0	78	4.504E-08	1.081E-07	1600
146.0	162	0.271E-08	2.225E-07	1600
148.0	31	1.775E-08	4.261E-08	1600
150.0	14	8.548E-09	2.051E-08	1600
50.0	0	0.000E+00	0.000E+00	1600

CROSS-ROAD INTEGRATED 1.084E-03 2.607E-03
 SEC/SEC² 1/CM²

UNSTABLE SERIES EXPERIMENT: 30 (U-30)
GROUND LEVEL SAMPLING 100-3200 M ARCS. THE TRACER WAS NOT
DETECTED ON THE 100 M ARC.

TEST U-30 NOVEMBER 11, 1963 1005 TO 1505 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M U = 9.6 MZSEC AT 56M

AZIMUTH	EXPOSURE	FZ	FZ/D	DISTANCE
DEGREES	SEC/CM	SEC/CM	1/SEC	METERS
X10E+6				
40.0	0	3.14E-09	3.059E-08	200
50.0	10	6.42E-09	4.554E-08	200
50.0	14	1.00E-09	1.049E-07	200
50.0	22	1.50E-09	1.80E-07	200
60.0	34	2.50E-09	2.69E-07	200
60.0	22	1.51E-09	1.80E-07	200
70.0	22	1.00E-09	1.70E-07	200
70.0	10	2.50E-09	9.17E-08	200
70.0	0	2.73E-09	2.62E-08	200
80.0	3	2.27E-09	2.18E-08	200
80.0	0	5.91E-09	5.60E-08	200
110.0	0	5.40E-09	5.24E-08	200

CROSS-IND INTEGRATED = 2.04E-06
SEC/SEC 1/M

TEST U-30 NOVEMBER 11, 1963 1005 TO 1505 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M U = 9.6 MZSEC AT 56M

AZIMUTH	EXPOSURE	FZ	FZ/D	DISTANCE
DEGREES	SEC/CM	SEC/CM	1/SEC	METERS
X10E+6				
40.0	3	2.27E-09	2.18E-08	300
50.0	00	2.69E-09	2.57E-07	300
50.0	12	4.40E-09	4.30E-07	300
60.0	31	2.00E-09	2.01E-07	300
60.0	05	5.60E-09	5.46E-07	300
60.0	40	4.32E-09	4.15E-07	300
70.0	12	8.10E-09	7.84E-08	300
70.0	6	4.50E-09	4.36E-08	300
80.0	5	3.60E-09	3.46E-08	300
80.0	0	4.50E-09	4.36E-08	300
80.0	0	2.73E-09	2.62E-08	300
90.0	3	2.27E-09	2.18E-08	300

CROSS-IND INTEGRATED = 3.70E-06
SEC/SEC 1/M

TEST U-30 NOVEMBER 11, 1963 1005 TO 1505 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U = 9.6 MZSEC AT 56M

AZIMUTH	EXPOSURE	FZ	FZ/D	DISTANCE
DEGREES	SEC/CM	SEC/CM	1/SEC	METERS
X10E+6				
30.0	10	7.20E-09	4.45E-08	400
40.0	10	1.20E-09	1.10E-07	400
40.0	08	3.20E-09	3.10E-07	400
50.0	103	1.20E-07	1.17E-06	400
50.0	213	1.60E-07	1.56E-06	400
50.0	422	2.01E-07	2.00E-06	400
60.0	260	1.70E-07	1.68E-06	400
60.0	172	1.10E-07	1.10E-06	400
70.0	214	1.00E-07	1.00E-06	400
70.0	112	7.51E-09	7.21E-07	400
70.0	14	2.50E-09	9.17E-08	400
80.0	23	1.50E-09	1.40E-07	400
80.0	23	1.50E-09	1.50E-07	400

CROSS-IND INTEGRATED = 3.26E-05
SEC/SEC 1/M

TEST U-30 NOVEMBER 11, 1963 1005 TO 1505 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
500M ARC SAMPLER HT 1.5M U = 9.6 MZSEC AT 56M

AZIMUTH	EXPOSURE	FZ	FZ/D	DISTANCE
DEGREES	SEC/CM	SEC/CM	1/SEC	METERS
X10E+6				
40.0	30	2.40E-09	2.53E-07	500
40.0	17	1.10E-09	1.02E-07	500
40.0	332	2.21E-07	2.12E-06	500
50.0	1400	7.30E-07	7.03E-06	500
50.0	1400	9.30E-07	9.02E-06	500
60.0	1470	9.80E-07	9.41E-06	500
60.0	716	4.70E-07	4.58E-06	500
60.0	721	4.81E-07	4.61E-06	500
70.0	507	3.90E-07	3.75E-06	500
70.0	200	1.30E-07	1.33E-06	500
80.0	0	5.40E-09	5.20E-08	500

CROSS-IND INTEGRATED = 1.53E-08
SEC/SEC 1/M

TEST U-30 NOVEMBER 11, 1963 1005 TO 1505 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLER HT 1.5M U = 9.6 MZSEC AT 56M

AZIMUTH	EXPOSURE	FZ	FZ/D	DISTANCE
DEGREES	SEC/CM	SEC/CM	1/SEC	METERS
X10E+6				
30.0	120	8.01E-09	7.60E-07	600
40.0	15	1.00E-09	9.63E-07	600
40.0	165	1.10E-07	1.05E-06	600
50.0	577	4.50E-07	4.33E-06	600
50.0	2467	1.50E-06	1.51E-05	600
50.0	2568	1.91E-06	1.83E-05	600
60.0	2071	1.30E-06	1.32E-05	600
60.0	1125	7.50E-07	7.20E-06	600
70.0	944	6.00E-07	6.1E-06	600
70.0	444	2.60E-07	2.58E-06	600
70.0	43	2.91E-09	2.79E-07	600
110.0	0	2.00E-09	1.96E-07	600
120.0	15	1.00E-09	9.63E-08	600

CROSS-IND INTEGRATED = 3.16E-06
SEC/SEC 1/M

TEST U-30 NOVEMBER 4, 1963 1445 TO 1545 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 1600M ALC SAMPLER AT 1.5" U= 9.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE MIN-SEC/1000 X1000	FZ SEC/1000	FZ/D 1/SEC	DISTANCE METERS
46.0	176	1.179E-07	1.132E-06	800
47.0	230	1.590E-07	1.534E-06	800
48.0	90	6.201E-07	6.030E-07	800
49.0	602	4.010E-07	3.854E-06	800
52.0	2100	1.401E-06	1.340E-05	800
55.0	1458	2.405E-06	2.309E-05	800
56.0	1196	2.799E-06	2.686E-05	800
61.0	9200	2.001E-06	2.099E-05	800
69.0	2501	1.609E-06	1.627E-05	800
67.0	1500	1.030E-06	9.888E-06	800
70.0	897	5.085E-07	5.746E-06	800
73.0	253	1.693E-07	1.625E-06	800
76.0	213	1.020E-07	1.363E-06	800
79.0	3	2.276E-09	2.185E-08	800
82.0	17	1.163E-08	1.136E-07	800

CROSS-IND INTEGRATED= 5.774E-08 SEC/SEC
 1/M

TEST U-30 NOVEMBER 4, 1963 1445 TO 1545 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 1200M ALC SAMPLER AT 1.5" U= 4.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE MIN-SEC/1000 X1000	FZ SEC/1000	FZ/D 1/SEC	DISTANCE METERS
42.0	6	0.076E-09	3.913E-08	1200
44.0	62	0.143E-09	3.497E-07	1200
46.0	59	1.610E-06	3.066E-07	1200
48.0	272	1.817E-07	1.744E-06	1200
50.0	216	0.770E-07	0.483E-06	1200
52.0	503	9.089E-07	5.654E-06	1200
54.0	2100	1.030E-06	1.373E-05	1200
56.0	2613	1.702E-06	1.673E-05	1200
58.0	3156	2.106E-06	2.022E-05	1200
60.0	2006	1.615E-06	1.600E-05	1200
62.0	1194	7.050E-07	7.601E-06	1200
64.0	1507	1.031E-06	5.902E-06	1200
66.0	700	0.935E-07	6.737E-06	1200
68.0	446	0.309E-07	0.136E-06	1200
70.0	293	1.020E-07	1.817E-06	1200
72.0	279	1.854E-07	1.780E-06	1200
74.0	200	1.627E-07	1.562E-06	1200
76.0	71	0.765E-08	0.555E-07	1200
78.0	21	1.026E-09	1.369E-07	1200
80.0	0	0.000E+00	0.000E+00	1200
82.0	3	2.325E-09	2.236E-08	1200
84.0	5	3.785E-09	3.633E-08	1200
86.0	2	1.056E-09	1.397E-08	1200
88.0	12	0.403E-09	0.105E-08	1200

CROSS-IND INTEGRATED= 0.850E-08 SEC/SEC
 1/M

TEST U-30 NOVEMBER 4, 1963 1445 TO 1545 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 1600M ALC SAMPLER AT 1.5" U= 9.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE MIN-SEC/1000 X1000	FZ SEC/1000	FZ/D 1/SEC	DISTANCE METERS
46.0	50	1.300E-07	1.210E-07	1600
49.0	61	0.105E-09	3.001E-07	1600
50.0	361	2.000E-07	2.311E-06	1600
52.0	1220	8.180E-07	7.000E-06	1600
54.0	2017	1.305E-06	1.201E-05	1600
56.0	1532	1.022E-06	6.810E-06	1600
58.0	2000	1.000E-06	1.020E-05	1600
60.0	1052	1.121E-06	1.177E-05	1600
62.0	1770	1.180E-06	1.138E-05	1600
64.0	1235	0.235E-07	7.400E-06	1600
66.0	564	1.770E-07	3.625E-06	1600
68.0	520	1.067E-07	3.329E-06	1600
70.0	253	1.601E-07	1.624E-06	1600
72.0	198	1.325E-07	1.272E-06	1600
74.0	126	1.179E-07	1.132E-06	1600
76.0	25	1.710E-08	1.609E-07	1600
78.0	1	1.160E-09	1.118E-08	1600
80.0	6	0.650E-09	0.072E-08	1600
82.0	7	0.000E-09	0.751E-08	1600

CROSS-IND INTEGRATED= 5.036E-08 SEC/SEC
 1/M

TEST U-30 NOVEMBER 4, 1963 1445 TO 1545 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 3200M ALC SAMPLER AT 1.5" U= 5.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE MIN-SEC/1000 X1000	FZ SEC/1000	FZ/D 1/SEC	DISTANCE METERS
40.0	000	2.935E-07	2.617E-06	3200
41.0	518	3.050E-07	3.321E-06	3200
42.0	392	2.617E-07	2.513E-06	3200
43.0	309	2.066E-07	1.903E-06	3200
44.0	121	0.113E-08	7.786E-07	3200
45.0	138	0.216E-08	0.800E-07	3200
46.0	113	7.553E-08	7.751E-07	3200
47.0	77	5.166E-08	4.953E-07	3200
48.0	113	7.553E-08	7.751E-07	3200
49.0	105	7.061E-08	6.778E-07	3200
50.0	136	0.057E-08	6.733E-07	3200
51.0	106	7.230E-08	6.901E-07	3200
52.0	70	5.245E-08	5.035E-07	3200
53.0	30	2.325E-08	2.232E-07	3200
54.0	2	1.067E-09	1.792E-08	3200

CROSS-IND INTEGRATED= 1.003E-08 SEC/SEC
 1/M

UNSTABLE SERIES EXPERIMENT: 31 (U-31)
GROUND LEVEL SAMPLING 100-1600 M ARCS. THE TRACER WAS NOT
DETECTED ON THE 100 M ARC.

TEST U-31 NOVEMBER 19, 1963 1516 TO 1554 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC SAMPLED AT 1.5" μ = 7.5 1/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE M-SEC/CM ² X10 ¹¹ +6	FZ SEC/CM ²	FZD 1/SEC	DISTANCE METERS
18.0	31	3.143E-08	2.357E-07	200
22.0	121	4.940E-08	2.401E-07	200
26.0	208	2.412E-07	1.809E-06	200
30.0	32	2.642E-08	1.974E-07	200
42.0	13	3.500E-08	2.632E-07	200

CROSS-IND INTEGRATED = 6.906E-06 5.175E-05
SEC/SEC 1/M

TEST U-31 NOVEMBER 19, 1963 1516 TO 1554 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLED AT 1.5" μ = 7.5 1/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE M-SEC/CM ² X10 ¹¹ +6	FZ SEC/CM ²	FZD 1/SEC	DISTANCE METERS
8.0	12	1.023E-08	7.676E-08	300
12.0	6	5.460E-08	4.057E-07	300
16.0	515	4.200E-07	3.152E-06	300
20.0	141	7.025E-07	5.264E-06	300
24.0	2425	1.977E-06	1.482E-05	300
28.0	1147	2.525E-07	7.100E-06	300
32.0	247	2.914E-07	1.513E-06	300
36.0	136	1.111E-07	0.333E-07	300
40.0	126	1.603E-07	1.201E-06	300
44.0	150	1.272E-07	9.500E-07	300
48.0	167	1.367E-07	1.025E-06	300
52.0	12	1.623E-08	7.676E-08	300
56.0	17	1.462E-08	1.097E-07	300
60.0	8	6.529E-09	4.230E-08	300

CROSS-IND INTEGRATED = 1.023E-04 7.673E-04
SEC/SEC 1/M

TEST U-31 NOVEMBER 19, 1963 1516 TO 1554 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLED AT 1.5" μ = 7.5 1/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE M-SEC/CM ² X10 ¹¹ +6	FZ SEC/CM ²	FZD 1/SEC	DISTANCE METERS
10.0	26	2.103E-08	1.605E-07	400
14.0	57	3.370E-08	2.566E-07	400
18.0	394	2.777E-07	2.083E-06	400
22.0	1241	1.012E-06	7.588E-06	400
26.0	1016	1.000E-06	1.110E-05	400
30.0	1273	1.035E-06	7.705E-06	400
34.0	715	5.631E-07	4.375E-06	400
38.0	641	5.227E-07	3.520E-06	400
42.0	732	5.522E-07	4.072E-06	400
46.0	652	3.203E-07	2.407E-06	400
50.0	127	1.010E-07	7.705E-07	400
54.0	202	2.304E-07	1.727E-06	400
58.0	54	4.225E-08	3.218E-07	400

CROSS-IND INTEGRATED = 1.767E-04 1.325E-03
SEC/SEC 1/M

TEST U-31 NOVEMBER 19, 1963 1516 TO 1554 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
500M ARC SAMPLED AT 1.5" μ = 7.5 1/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE M-SEC/CM ² X10 ¹¹ +6	FZ SEC/CM ²	FZD 1/SEC	DISTANCE METERS
12.0	25	2.007E-08	1.535E-07	500
16.0	142	1.162E-07	8.717E-07	500
20.0	339	2.770E-07	2.078E-06	500
24.0	197	6.408E-07	5.041E-06	500
28.0	1059	8.633E-07	6.475E-06	500
32.0	642	5.462E-07	4.052E-06	500
36.0	1122	9.735E-07	7.286E-06	500
40.0	1607	1.310E-06	9.425E-06	500
44.0	432	6.700E-07	5.088E-06	500
48.0	577	3.055E-07	2.917E-06	500
52.0	531	0.435E-07	3.251E-06	500
56.0	279	2.201E-07	1.711E-06	500
60.0	119	9.722E-08	7.202E-07	500

CROSS-IND INTEGRATED = 2.312E-04 1.734E-03
SEC/SEC 1/M

TEST U-31 NOVEMBER 19, 1963 1516 TO 1554 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLED AT 1.5" μ = 7.5 1/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE M-SEC/CM ² X10 ¹¹ +6	FZ SEC/CM ²	FZD 1/SEC	DISTANCE METERS
14.0	12	1.023E-08	7.676E-08	600
18.0	150	1.266E-07	9.760E-07	600
22.0	336	2.770E-07	2.078E-06	600
26.0	671	5.630E-07	4.350E-06	600
30.0	732	6.010E-07	4.607E-06	600
34.0	700	0.107E-07	1.180E-06	600
38.0	1124	1.220E-06	5.152E-06	600
42.0	1473	1.603E-06	1.206E-05	600
46.0	610	5.205E-07	3.960E-06	600
50.0	671	5.461E-07	4.055E-06	600
54.0	1279	1.003E-06	7.424E-06	600
58.0	294	2.002E-07	1.031E-06	600
62.0	12	1.023E-08	7.676E-08	600

CROSS-IND INTEGRATED = 3.174E-04 2.382E-03
SEC/SEC 1/M

TEST II-31 1000000-19, 1963 1516 TO 1554 PST
ZINC SULFIDE REFLECTOR ELEVATION OF 56M
800M ARC SPREADER AT 1.5M 7.5 1/2SEC AT 56M

AZIMUTH DEGREES	EXPOSURE SEC/200.0 X10E+6	FZ SEC/200.0 X10E+6	FZ/2 1/50.0	DISTANCE METERS
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16.0	190	1.566E-07	1.129E-06	800
19.0	225	2.012E-07	1.009E-06	800
22.0	202	1.652E-07	1.239E-06	800
25.0	722	5.003E-07	0.457E-06	800
28.0	321	3.059E-07	2.593E-06	800
31.0	956	7.702E-07	5.004E-06	800
34.0	1511	1.569E-06	1.173E-05	800
37.0	2231	1.021E-06	1.364E-05	800
40.0	2493	2.105E-06	1.406E-05	800
43.0	3172	2.506E-06	1.939E-05	800
46.0	1511	1.212E-06	0.232E-06	800
49.0	705	6.404E-07	0.903E-06	800
52.0	039	6.504E-07	0.949E-06	800
55.0	271	2.206E-07	1.656E-06	800
58.0	027	3.007E-07	2.615E-06	800
61.0	195	1.513E-07	1.135E-06	800
64.0	113	0.211E-08	6.708E-07	800
67.0	22	1.927E-08	1.371E-07	800
70.0	0	7.310E-09	5.083E-08	800

CROSSHAIR INTERFERENCE 5.705E-04
SEC/200.0 0.339E-03
1/2"

TEST II-31 1000000-19, 1963 1516 TO 1554 PST
ZINC SULFIDE REFLECTOR ELEVATION OF 56M
1200M ARC SPREADER AT 1.5M 7.5 1/2SEC AT 56M

AZIMUTH DEGREES	EXPOSURE SEC/200.0 X10E+6	FZ SEC/200.0 X10E+6	FZ/2 1/50.0	DISTANCE METERS
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2.0	230	1.702E-07	1.336E-06	1200
5.0	30	2.695E-08	2.010E-07	1200
8.0	105	8.610E-08	6.458E-07	1200
11.0	15	1.270E-08	9.591E-08	1200
14.0	27	2.259E-08	1.690E-07	1200
17.0	27	2.259E-08	1.690E-07	1200
19.0	7	5.061E-09	1.076E-08	1200
16.0	16	1.360E-08	1.023E-07	1200
15.0	07	3.034E-08	2.877E-07	1200
20.0	66	5.056E-08	4.092E-07	1200
22.0	132	1.075E-07	8.088E-07	1200
24.0	340	3.133E-07	2.327E-06	1200
26.0	507	6.139E-07	3.100E-06	1200
28.0	510	4.104E-07	3.146E-06	1200
30.0	405	3.308E-07	2.081E-06	1200
32.0	411	3.355E-07	2.516E-06	1200
34.0	1019	1.157E-06	8.680E-06	1200
36.0	1337	1.009E-06	8.178E-06	1200
38.0	900	7.690E-07	5.770E-06	1200
40.0	1670	1.360E-06	1.023E-05	1200
42.0	032	6.702E-07	5.086E-06	1200
44.0	071	7.016E-07	5.037E-06	1200
46.0	000	7.900E-07	5.991E-06	1200
48.0	782	6.043E-07	4.824E-06	1200
50.0	608	5.206E-07	3.964E-06	1200
52.0	200	3.503E-07	2.695E-06	1200
54.0	220	1.050E-07	1.387E-06	1200
56.0	313	2.593E-07	1.915E-06	1200
58.0	214	2.000E-07	1.506E-06	1200
60.0	253	2.067E-07	1.550E-06	1200
62.0	119	0.719E-08	7.289E-07	1200
64.0	111	0.127E-08	6.241E-07	1200
66.0	51	0.476E-08	3.357E-07	1200
68.0	03	7.507E-08	5.690E-07	1200
70.0	133	1.151E-07	8.184E-07	1200
72.0	150	1.220E-07	8.207E-07	1200
74.0	15	1.236E-08	9.271E-08	1200
76.0	15	1.279E-08	9.591E-08	1200
78.0	1	1.270E-09	9.591E-09	1200
80.0	0	0.203E-10	3.192E-09	1200
82.0	13	1.100E-08	8.312E-08	1200
84.0	1	1.270E-09	9.591E-09	1200
86.0	3	2.558E-09	1.518E-08	1200
88.0	07	3.270E-09	2.009E-08	1200

CROSSHAIR INTERFERENCE 5.705E-04
SEC/200.0 3.779E-03
1/2"

TEST D-31 NOVEMBER 19, 1943 1516 TO 1554 PST
 ZINC SULFIDE WHEELS FROM ELEVATION OF 56M
 1600S ALC SAMPLED AT 1.5M VE = 7.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE SEC/CM	EX- POS/CM	FLUX 1/50,000	DISTANCE METERS
18.0	30	2.813E-04	2.110E-07	1600
20.0	63	5.200E-04	3.200E-07	1600
22.0	54	4.731E-04	3.549E-07	1600
24.0	305	2.400E-07	1.867E-06	1600
26.0	433	5.166E-07	3.975E-06	1600
28.0	752	6.130E-07	4.597E-06	1600
30.0	692	5.400E-07	4.265E-06	1600
32.0	520	7.546E-07	5.675E-06	1600
34.0	1618	1.317E-06	9.882E-06	1600
36.0	1692	1.220E-06	9.150E-06	1600
38.0	2217	1.867E-06	1.355E-05	1600
40.0	2210	1.800E-06	1.354E-05	1600
42.0	1972	1.607E-06	1.206E-05	1600
44.0	2793	2.277E-06	1.708E-05	1600
46.0	2218	1.800E-06	1.356E-05	1600
48.0	1302	1.062E-06	7.963E-06	1600
50.0	1201	1.000E-06	7.832E-06	1600
52.0	1005	8.197E-07	6.148E-06	1600
54.0	535	8.361E-07	3.270E-06	1600
56.0	351	2.840E-07	2.148E-06	1600
58.0	467	3.811E-07	2.850E-06	1600
60.0	570	4.113E-07	3.085E-06	1600
62.0	530	4.390E-07	3.293E-06	1600
64.0	617	5.000E-07	3.772E-06	1600
66.0	524	4.476E-07	3.357E-06	1600
68.0	292	1.978E-07	1.480E-06	1600
70.0	164	1.360E-07	1.020E-06	1600
72.0	121	2.800E-08	7.017E-07	1600
74.0	50	8.731E-08	3.509E-07	1600
76.0	1	8.525E-10	6.328E-09	1600
78.0	0	0.000E+00	0.000E+00	1600
80.0	12	1.023E-08	7.673E-08	1600

CROSS SECTION OF TEST D-31 = 1.173E-03 0.794E-03
 SEC/CM 1/M

UNSTABLE SERIES EXPERIMENT: 32 (U-32)
GROUND LEVEL SAMPLING 100-1600 M ARCS. FOR EASE IN STATISTICAL
ANALYSIS, ALL SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES
FROM THEIR ACTUAL POSITIONS.

TEST U-32 DECEMBER 26, 1963 1149 TO 1249 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
100M ARC SAMPLER HT 1.5M U= 9.7 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	E/U/Q 1/SQ.M	DISTANCE METERS
10.0	11	9.710E-09	9.409E-08	100
14.0	137	1.136E-07	1.102E-06	100
18.0	29	2.425E-08	2.352E-07	100
22.0	27	2.286E-08	2.218E-07	100
26.0	74	6.166E-08	5.981E-07	100
30.0	28	2.366E-08	2.285E-07	100
34.0	135	1.122E-07	1.089E-06	100
38.0	78	6.513E-08	6.317E-07	100
42.0	163	1.358E-07	1.317E-06	100
46.0	59	4.919E-08	4.772E-07	100
50.0	107	8.868E-08	8.602E-07	100
54.0	17	1.455E-08	1.411E-07	100
58.0	142	1.178E-07	1.143E-06	100
62.0	57	4.781E-08	4.637E-07	100
66.0	67	5.612E-08	5.444E-07	100
70.0	185	1.538E-07	1.492E-06	100
74.0	169	1.406E-07	1.364E-06	100
78.0	69	5.751E-08	5.578E-07	100
82.0	138	1.150E-07	1.116E-06	100
86.0	127	1.053E-07	1.022E-06	100
90.0	97	8.166E-08	7.863E-07	100
94.0	134	1.115E-07	1.082E-06	100
98.0	16	1.384E-08	1.344E-07	100
102.0	176	1.462E-07	1.418E-06	100
106.0	41	3.484E-08	3.360E-07	100
110.0	135	1.122E-07	1.089E-06	100
114.0	291	2.418E-07	2.346E-06	100
118.0	40	3.395E-08	3.293E-07	100
122.0	194	1.610E-07	1.566E-06	100
126.0	131	1.088E-07	1.055E-06	100
130.0	441	3.825E-07	3.710E-06	100
134.0	307	2.550E-07	2.473E-06	100
138.0	161	1.337E-07	1.297E-06	100

CROSSWIND INTEGRATED= 2.326E-05 2.256E-04
SEC/SQ.M 1/M

TEST U-32 DECEMBER 26, 1963 1149 TO 1249 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC SAMPLER HT 1.5M U= 9.7 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	E/U/Q 1/SQ.M	DISTANCE METERS
12.0	25	2.148E-08	2.083E-07	200
16.0	84	6.998E-08	6.788E-07	200
20.0	54	4.504E-08	4.368E-07	200
24.0	17	3.118E-08	3.024E-07	200
28.0	99	8.245E-08	7.998E-07	200
32.0	23	1.940E-08	1.882E-07	200
36.0	61	5.058E-08	4.906E-07	200
40.0	42	5.194E-08	5.040E-07	200
44.0	24	2.009E-08	1.949E-07	200
48.0	20	1.663E-08	1.613E-07	200
52.0	40	3.395E-08	3.293E-07	200
56.0	91	7.552E-08	7.326E-07	200
60.0	25	2.079E-08	2.016E-07	200
64.0	20	1.732E-08	1.680E-07	200
68.0	168	1.400E-07	1.358E-06	200
72.0	13	1.109E-08	1.075E-07	200
76.0	67	5.612E-08	5.444E-07	200
80.0	18	1.524E-08	1.479E-07	200
84.0	132	1.095E-07	1.062E-06	200
88.0	29	1.663E-08	1.613E-07	200
92.0	155	1.289E-07	1.250E-06	200
96.0	30	2.564E-08	2.487E-07	200
100.0	20	1.732E-08	1.680E-07	200
104.0	59	4.919E-08	4.772E-07	200
108.0	198	1.842E-07	1.593E-06	200
112.0	152	1.261E-07	1.223E-06	200
116.0	81	6.790E-08	6.586E-07	200
120.0	50	4.157E-08	4.032E-07	200
124.0	73	6.097E-08	5.914E-07	200
128.0	69	5.751E-08	5.578E-07	200
132.0	107	8.868E-08	8.670E-07	200
136.0	52	4.365E-08	4.234E-07	200
140.0	71	5.959E-08	5.780E-07	200
144.0	76	6.305E-08	6.116E-07	200
148.0	116	9.631E-08	9.342E-07	200
152.0	91	7.621E-08	7.393E-07	200

CROSSWIND INTEGRATED= 2.494E-05 2.807E-04
SEC/SQ.M 1/M

TEST U-32 DECEMBER 26, 1963 1149 TO 1249 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M U= 9.7 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
14.0	30	2.564E-08	2.487E-07	300
18.0	0	0.000E+00	0.000E+00	300
22.0	34	2.841E-08	2.755E-07	300
26.0	0	6.929E-10	6.721E-09	300
30.0	0	0.000E+00	0.000E+00	300
34.0	0	0.000E+00	0.000E+00	300
38.0	60	4.989E-08	4.839E-07	300
42.0	70	5.820E-08	5.645E-07	300
46.0	183	1.517E-07	1.472E-06	300
50.0	192	1.594E-07	1.546E-06	300
54.0	172	1.427E-07	1.384E-06	300
58.0	36	3.049E-08	2.957E-07	300
62.0	106	8.799E-08	8.535E-07	300
66.0	17	1.455E-08	1.411E-07	300
70.0	97	8.106E-08	7.863E-07	300
74.0	0	0.000E+00	0.000E+00	300
78.0	40	3.395E-08	3.293E-07	300
82.0	5	4.157E-09	4.032E-08	300
86.0	0	0.000E+00	0.000E+00	300
90.0	3	2.771E-09	2.688E-08	300
94.0	3	2.771E-09	2.688E-08	300
98.0	0	0.000E+00	0.000E+00	300
102.0	0	0.000E+00	0.000E+00	300
106.0	13	1.109E-08	1.075E-07	300
110.0	31	2.633E-08	2.554E-07	300
114.0	52	4.365E-08	4.234E-07	300
118.0	21	1.801E-08	1.747E-07	300
122.0	13	1.109E-08	1.075E-07	300
126.0	4	3.044E-09	3.060E-08	300
130.0	28	2.356E-08	2.285E-07	300
134.0	40	3.326E-08	3.226E-07	300
138.0	35	2.910E-08	2.823E-07	300
142.0	47	3.949E-08	3.831E-07	300
146.0	45	3.741E-08	3.629E-07	300
150.0	155	1.289E-07	1.250E-06	300

CROSSWIND INTEGRATED= -0.912E+04 -4.745E+05
SEC/SQ.M 1/M

TEST U-32 DECEMBER 26, 1963 1149 TO 1249 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 9.7 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
32.0	61	5.127E-08	4.973E-07	400
36.0	7	6.236E-09	6.049E-08	400
40.0	106	8.799E-08	8.535E-07	400
44.0	541	4.083E-07	4.308E-06	400
48.0	898	7.088E-07	7.225E-06	400
52.0	448	3.679E-07	3.569E-06	400
56.0	609	5.051E-07	4.899E-06	400
60.0	231	1.919E-07	1.862E-06	400
64.0	197	1.635E-07	1.586E-06	400
68.0	60	4.299E-08	4.839E-07	400
72.0	31	1.423E-08	2.554E-07	400

CROSSWIND INTEGRATED= 7.381E+05 7.160E+04
SEC/SQ.M 1/M

TEST U-32 DECEMBER 26, 1963 1149 TO 1249 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
500M ARC SAMPLER HT 1.5M U= 9.7 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
38.0	73	6.007E-08	5.910E-07	500
42.0	260	2.155E-07	2.090E-06	500
46.0	834	6.915E-07	6.707E-06	500
50.0	1286	1.066E-06	1.034E-05	500
54.0	1093	9.056E-07	8.784E-06	500
58.0	986	8.176E-07	7.930E-06	500
62.0	471	3.908E-07	3.790E-06	500
66.0	239	1.982E-07	1.922E-06	500
70.0	173	1.434E-07	1.391E-06	500
74.0	23	1.940E-08	1.882E-07	500
78.0	4	3.464E-09	3.360E-08	500
82.0	12	1.039E-08	1.008E-07	500

CROSSWIND INTEGRATED= 1.579E+04 1.531E+03
SEC/SQ.M 1/M

TEST U-32 DECEMBER 26, 1963 1149 TO 1249 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLER HT 1.5M U= 9.7 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
48.0	209	1.739E-07	1.687E-06	600
48.0	1031	8.503E-07	8.287E-06	600
48.0	2287	1.805E-06	1.838E-05	600
52.0	1972	1.630E-06	1.585E-05	600
56.0	2006	1.662E-06	1.612E-05	600
60.0	1885	1.562E-06	1.516E-05	600
64.0	866	7.178E-07	6.963E-06	600
68.0	435	3.610E-07	3.501E-06	600
72.0	199	9.076E-08	8.804E-07	600
76.0	4	3.464E-09	3.360E-08	600
80.0	24	2.009E-08	1.949E-07	600

CROSSWIND INTEGRATED= 3.760E+04 3.647E+03
SEC/SQ.M 1/M

TEST U-32 DECEMBER 26, 1963 1149 TO 1249 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 9.7 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
37.0	8	6.929E-09	6.721E-08	800
40.0	132	1.095E-07	1.062E-06	800
43.0	537	4.455E-07	4.321E-06	800
46.0	1364	1.131E-06	1.097E-05	800
49.0	2518	2.087E-06	2.024E-05	800
52.0	3278	2.716E-06	2.634E-05	800
55.0	1380	1.104E-06	1.110E-05	800
58.0	2272	1.885E-06	1.828E-05	800
61.0	2889	2.304E-06	2.322E-05	800
64.0	1028	8.522E-07	8.266E-06	800
67.0	979	4.113E-07	7.870E-06	800
70.0	400	3.679E-07	3.569E-06	800
73.0	152	1.261E-07	1.223E-06	800
76.0	26	2.217E-08	2.151E-07	800
79.0	9	7.621E-09	7.393E-08	800

CROSSWIND INTEGRATED= 5.908E+04 5.731E+03
SEC/SQ.M 1/M

TEST U-32 DECEMBER 24, 1963 1149 TO 1249 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 1200M ARC SAMPLER HT 1.5M U= 9.7 M/SEC AT 56M
 SAMPLED AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	EU/D 1/SQ.M	DISTANCE METERS
40.0	34	2.972E-08	2.786E-07	1200
42.0	203	1.690E-07	1.639E-06	1200
44.0	198	1.644E-07	1.595E-06	1200
46.0	672	5.569E-07	5.402E-06	1200
48.0	825	6.835E-07	6.634E-06	1200
50.0	2443	2.024E-06	1.964E-05	1200
52.0	2535	2.100E-06	2.037E-05	1200
54.0	0	0.000E+00	0.000E+00	1200
56.0	2676	2.217E-06	2.151E-05	1200
58.0	2541	2.105E-06	2.042E-05	1200
60.0	2118	1.755E-06	1.703E-05	1200
62.0	2464	2.042E-06	1.980E-05	1200
64.0	1051	8.706E-07	8.447E-06	1200
66.0	1494	1.238E-06	1.201E-05	1200
68.0	650	5.190E-07	5.229E-06	1200
70.0	672	5.569E-07	5.402E-06	1200
72.0	67	5.574E-08	5.410E-07	1200
74.0	17	1.122E-08	1.028E-07	1200
76.0	15	1.290E-08	1.252E-07	1200

CROSSWIND INTEGRATED= 7.185E-04 6.969E-03
 SEC/SQ.M 1/M

TEST U-32 DECEMBER 24, 1963 1149 TO 1249 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 1600M ARC SAMPLER HT 1.5M U= 9.7 M/SEC AT 56M
 SAMPLED AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	EU/D 1/SQ.M	DISTANCE METERS
44.0	70	5.828E-08	5.653E-07	1600
46.0	220	1.827E-07	1.773E-06	1600
48.0	679	5.295E-07	5.136E-06	1600
50.0	1607	1.332E-06	1.292E-05	1600
52.0	1932	1.601E-06	1.553E-05	1600
54.0	1516	1.256E-06	1.219E-05	1600
56.0	2345	1.976E-06	1.917E-05	1600
58.0	1973	1.635E-06	1.586E-05	1600
60.0	1066	8.833E-07	8.568E-06	1600
62.0	1915	1.587E-06	1.539E-05	1600
64.0	1176	9.749E-07	9.456E-06	1600
66.0	615	5.103E-07	4.950E-06	1600
68.0	602	4.995E-07	4.845E-06	1600
70.0	433	3.588E-07	3.480E-06	1600
72.0	94	7.826E-08	7.591E-07	1600
74.0	33	2.707E-08	2.665E-07	1600
98.0	14	1.207E-08	1.171E-07	1600
118.0	22	1.873E-08	1.817E-07	1600

CROSSWIND INTEGRATED= 7.408E-04 7.574E-03
 SEC/SQ.M 1/M

UNSTABLE SERIES EXPERIMENT: 33 (U-33)
GROUND LEVEL SAMPLING 100-1600 M ARCS. FOR EASE IN STATISTICAL
ANALYSIS, ALL SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES
FROM THEIR ACTUAL POSITIONS.

TEST U-33 MARCH 12, 1964 1342 TO 1440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
100M ARC SAMPLER HT 1.5M U= 8.7 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	F/U/O 1/SQ.M	DISTANCE METERS
26.0	7	4.025E-09	3.502E-08	100
30.0	64	3.443E-08	2.994E-07	100
34.0	141	8.631E-08	7.509E-07	100
38.0	494	2.643E-07	2.299E-06	100
42.0	1332	7.124E-07	6.198E-06	100
46.0	1062	5.679E-07	4.941E-06	100
50.0	977	5.228E-07	4.548E-06	100
54.0	1071	5.729E-07	4.984E-06	100
58.0	863	4.620E-07	4.019E-06	100
62.0	932	4.984E-07	4.338E-06	100
66.0	449	2.406E-07	2.093E-06	100
70.0	105	5.635E-08	4.902E-07	100
74.0	30	1.610E-08	1.401E-07	100
78.0	119	6.395E-08	5.544E-07	100
82.0	209	1.122E-07	9.766E-07	100
86.0	28	1.520E-08	1.323E-07	100
90.0	50	2.683E-08	2.334E-07	100
94.0	202	1.082E-07	9.415E-07	100
98.0	131	7.021E-08	6.108E-07	100

CROSSWIND INTEGRATED= 3.096E-05 2.694E-04
SEC/SQ.M 1/M

TEST U-33 MARCH 12, 1964 1342 TO 1440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC SAMPLER HT 1.5M U= 8.7 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	F/U/O 1/SQ.M	DISTANCE METERS
36.0	86	4.651E-08	4.046E-07	200
40.0	91	4.875E-08	4.241E-07	200
44.0	281	1.507E-07	1.311E-06	200
48.0	878	4.700E-07	4.089E-06	200
52.0	1018	5.447E-07	4.739E-06	200
56.0	1674	8.689E-07	7.560E-06	200
60.0	3159	1.690E-06	1.470E-05	200
64.0	1633	8.734E-07	7.598E-06	200
68.0	824	4.409E-07	3.836E-06	200
72.0	106	5.679E-08	4.941E-07	200
76.0	283	1.516E-07	1.319E-06	200
80.0	214	1.149E-07	9.999E-07	200
84.0	186	9.973E-08	8.676E-07	200
88.0	206	1.105E-07	9.610E-07	200
92.0	918	4.910E-07	4.272E-06	200
96.0	17	9.391E-09	8.170E-08	200
100.0	5	2.683E-09	2.334E-08	200

CROSSWIND INTEGRATED= 8.615E-05 7.495E-04
SEC/SQ.M 1/M

TEST U-33 MARCH 12, 1964 1342 TO 1440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M U= 8.7 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	F/U/O 1/SQ.M	DISTANCE METERS
38.0	61	3.309E-08	2.879E-07	300
42.0	158	8.497E-08	7.392E-07	300
46.0	209	1.118E-07	9.727E-07	300
50.0	402	2.151E-07	1.871E-06	300
54.0	1270	6.529E-07	5.680E-06	300
58.0	2140	1.144E-06	9.956E-06	300
62.0	1951	1.043E-06	9.077E-06	300
66.0	1506	8.059E-07	7.011E-06	300
70.0	1496	8.005E-07	6.964E-06	300
74.0	1578	8.443E-07	7.346E-06	300
78.0	1383	7.397E-07	6.435E-06	300
82.0	1564	8.367E-07	7.279E-06	300
86.0	423	2.267E-07	1.973E-06	300
90.0	49	2.639E-08	2.295E-07	300
94.0	295	1.579E-07	1.373E-06	300
98.0	709	3.742E-07	3.299E-06	300

CROSSWIND INTEGRATED= 1.697E-04 1.476E-03
SEC/SQ.M 1/M

TEST U-33 MARCH 12, 1964 1342 TO 1440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 8.7 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	F/U/O 1/SQ.M	DISTANCE METERS
40.0	14	7.602E-09	6.614E-08	400
44.0	201	1.078E-07	9.377E-07	400
48.0	198	1.060E-07	9.221E-07	400
52.0	1217	6.511E-07	5.665E-06	400
56.0	1361	7.280E-07	6.334E-06	400
60.0	1204	6.440E-07	5.603E-06	400
64.0	2222	1.189E-06	1.034E-05	400
68.0	1407	7.526E-07	6.548E-06	400
72.0	2536	1.356E-06	1.180E-05	400
76.0	3455	1.848E-06	1.608E-05	400
80.0	979	4.968E-07	4.323E-06	400
84.0	3248	1.737E-06	1.511E-05	400
88.0	2354	1.259E-06	1.096E-05	400
92.0	172	9.212E-08	8.015E-07	400
96.0	451	2.815E-07	2.101E-06	400
100.0	90	4.830E-08	4.202E-07	400
104.0	52	2.817E-08	2.451E-07	400

CROSSWIND INTEGRATED= 3.154E-04 2.744E-03
SEC/SQ.M 1/M

TEST U-33 MARCH 12, 1964 1342 TO 1440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
500M ARC SAMPLER HT 1.5M U= 8.7 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
46.0	87	2.694E-08	4.085E-07	500
50.0	650	3.479E-07	3.027E-06	500
54.0	1318	7.052E-07	6.136E-06	500
58.0	805	4.307E-07	3.747E-06	500
62.0	1629	8.712E-07	7.579E-06	500
66.0	2650	1.418E-06	1.233E-05	500
70.0	3206	1.736E-06	1.510E-05	500
74.0	3011	1.610E-06	1.401E-05	500
78.0	5379	2.877E-06	2.503E-05	500
82.0	4975	2.661E-06	2.315E-05	500
86.0	4270	2.284E-06	1.987E-05	500
90.0	785	0.199E-07	3.653E-06	500
94.0	416	2.227E-07	1.938E-06	500
98.0	451	2.415E-07	2.101E-06	500
102.0	408	2.182E-07	1.899E-06	500
106.0	36	1.968E-08	1.712E-07	500

CROSSWIND INTEGRATED= 5.623E-04 SEC/SQ.M
8.892E-03 1/M

TEST U-33 MARCH 12, 1964 1342 TO 1440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLER HT 1.5M U= 8.7 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
48.0	378	2.026E-07	1.762E-06	600
52.0	1026	5.492E-07	4.778E-06	600
56.0	950	5.085E-07	4.424E-06	600
60.0	610	3.265E-07	2.840E-06	600
64.0	2324	1.243E-06	1.082E-05	600
68.0	2108	1.127E-06	9.808E-06	600
72.0	2640	1.412E-06	1.228E-05	600
76.0	3625	1.939E-06	1.687E-05	600
80.0	2739	1.465E-06	1.275E-05	600
84.0	3550	1.899E-06	1.652E-05	600
88.0	1818	0.722E-07	8.458E-06	600
92.0	716	3.833E-07	3.334E-06	600
96.0	478	2.558E-07	2.225E-06	600
100.0	517	2.768E-07	2.408E-06	600
104.0	84	4.517E-08	3.930E-07	600

CROSSWIND INTEGRATED= 5.280E-04 SEC/SQ.M
4.594E-03 1/M

TEST U-33 MARCH 12, 1964 1342 TO 1440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 8.7 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
10.0	52	2.817E-08	2.451E-07	800
13.0	74	3.980E-08	3.463E-07	800
28.0	42	2.281E-08	1.984E-07	800
37.0	26	1.431E-08	1.245E-07	800
49.0	272	1.458E-07	1.268E-06	800
52.0	542	2.907E-07	2.525E-06	800
55.0	925	4.951E-07	4.307E-06	800
58.0	563	3.014E-07	2.622E-06	800
61.0	651	3.484E-07	3.031E-06	800
64.0	1327	7.102E-07	6.178E-06	800
67.0	1874	1.003E-06	8.723E-06	800
70.0	2782	1.488E-06	1.294E-05	800
73.0	1946	1.041E-06	9.057E-06	800
76.0	2262	1.210E-06	1.052E-05	800
79.0	2629	1.406E-06	1.223E-05	800
82.0	2612	1.397E-06	1.215E-05	800
85.0	2257	1.207E-06	1.050E-05	800
88.0	1291	6.905E-07	6.007E-06	800
91.0	540	2.889E-07	2.513E-06	800
94.0	214	1.149E-07	9.999E-07	800
97.0	480	2.567E-07	2.233E-06	800
100.0	381	1.825E-07	1.587E-06	800
103.0	50	2.683E-08	2.334E-07	800
106.0	38	2.057E-08	1.790E-07	800
112.0	8	4.472E-09	3.891E-08	800
118.0	19	1.029E-08	8.989E-08	800
127.0	45	2.015E-08	2.101E-07	800
133.0	46	2.504E-08	2.179E-07	800
142.0	29	1.565E-08	1.362E-07	800

CROSSWIND INTEGRATED= 5.587E-04 SEC/SQ.M
4.861E-03 1/M

TEST U-33 MARCH 12, 1964 1342 TO 1400 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 8.7 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGRFES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SG.M	DISTANCE METERS
48.0	31	1.666E-08	1.449E-07	1200
50.0	89	4.782E-08	4.161E-07	1200
52.0	303	1.625E-07	1.414E-06	1200
54.0	313	1.677E-07	1.459E-06	1200
56.0	428	2.289E-07	1.992E-06	1200
58.0	763	4.981E-07	3.551E-06	1200
60.0	536	2.869E-07	2.496E-06	1200
62.0	1065	5.699E-07	4.958E-06	1200
64.0	848	4.538E-07	3.948E-06	1200
66.0	1172	4.271E-07	3.456E-06	1200
68.0	1035	5.540E-07	4.820E-06	1200
70.0	1629	8.716E-07	7.583E-06	1200
72.0	1021	5.462E-07	4.752E-06	1200
74.0	1010	5.403E-07	4.701E-06	1200
76.0	1475	7.888E-07	6.863E-06	1200
78.0	2040	1.091E-06	9.495E-06	1200
80.0	1330	7.117E-07	6.192E-06	1200
82.0	1381	7.386E-07	6.426E-06	1200
84.0	1098	5.873E-07	5.110E-06	1200
86.0	1754	9.382E-07	8.162E-06	1200
88.0	514	2.754E-07	2.396E-06	1200
90.0	598	3.200E-07	2.784E-06	1200
92.0	172	9.215E-08	8.017E-07	1200
94.0	144	7.711E-08	6.708E-07	1200
96.0	91	4.890E-08	4.254E-07	1200
98.0	114	6.126E-08	5.329E-07	1200
100.0	57	3.063E-08	2.665E-07	1200
102.0	26	1.397E-08	1.215E-07	1200

CROSSWIND INTEGRATED= 4.715E-04 SEC/SG.M
1/M

TEST U-33 MARCH 12, 1964 1342 TO 1400 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 8.7 M/SEC AT 56M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGRFES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SG.M	DISTANCE METERS
38.0	105	5.642E-08	4.909E-07	1600
44.0	5	2.687E-09	2.337E-08	1600
46.0	4	2.418E-09	2.104E-08	1600
48.0	5	2.955E-09	2.571E-08	1600
50.0	29	1.585E-08	1.379E-07	1600
52.0	50	2.687E-08	2.337E-07	1600
54.0	114	6.099E-08	5.306E-07	1600
56.0	140	7.496E-08	6.521E-07	1600
58.0	356	1.905E-07	1.657E-06	1600
60.0	144	9.860E-08	8.578E-07	1600
62.0	243	1.300E-07	1.131E-06	1600
64.0	403	2.157E-07	1.877E-06	1600
66.0	357	1.910E-07	1.662E-06	1600
68.0	411	2.203E-07	1.917E-06	1600
70.0	244	1.306E-07	1.136E-06	1600
72.0	331	1.771E-07	1.500E-06	1600
74.0	595	3.186E-07	2.772E-06	1600
76.0	373	1.999E-07	1.739E-06	1600
78.0	551	2.947E-07	2.564E-06	1600
80.0	440	2.354E-07	2.048E-06	1600
82.0	403	2.157E-07	1.877E-06	1600
84.0	329	1.760E-07	1.531E-06	1600
86.0	299	1.601E-07	1.393E-06	1600
88.0	202	1.085E-07	9.443E-07	1600
90.0	123	6.582E-08	5.727E-07	1600
92.0	165	8.839E-08	7.690E-07	1600
94.0	49	2.633E-08	2.291E-07	1600
96.0	37	1.988E-08	1.730E-07	1600
98.0	44	2.364E-08	2.057E-07	1600
100.0	25	1.347E-08	1.169E-07	1600
102.0	6	3.493E-09	3.039E-08	1600
104.0	5	2.687E-09	2.337E-08	1600
106.0	21	1.155E-08	1.005E-07	1600
108.0	8	4.567E-09	3.974E-08	1600
110.0	23	1.236E-08	1.075E-07	1600

CROSSWIND INTEGRATED= 2.063E-04 SEC/SG.M
1/M

UNSTABLE SERIES EXPERIMENT: 34 (U-34)
GROUND LEVEL SAMPLING 100-3200 M ARCS.

TEST U-34 OCTOBER 4, 1964 1452 TO 1523 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
130M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. X10E+6	E/G SEC/CM. X10E+6	EU/G 1/SG.M	DISTANCE METERS
60.0	12	1.924E+08	1.347E+07	100
64.0	5	4.417E+09	5.892E+08	100
68.0	20	3.124E+08	2.188E+07	100
72.0	13	2.044E+08	1.431E+07	100
76.0	24	3.722E+08	2.609E+07	100
80.0	7	1.202E+08	8.417E+06	100
84.0	14	2.164E+08	1.515E+07	100
88.0	6	9.620E+09	6.734E+08	100
92.0	15	2.405E+08	1.683E+07	100
96.0	23	3.607E+08	2.525E+07	100
100.0	28	4.009E+08	3.114E+07	100
104.0	97	1.503E+07	1.052E+06	100
108.0	37	5.772E+08	4.040E+07	100
112.0	163	2.513E+07	1.759E+06	100
116.0	43	6.734E+08	4.714E+07	100
120.0	49	7.575E+08	5.303E+07	100

CROSSWIND INTEGRATED= 4.053E+06 4.237E+05
SEC/SG.M 1/M

TEST U-34 OCTOBER 4, 1964 1452 TO 1523 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. X10E+6	E/G SEC/CM. X10E+6	EU/G 1/SG.M	DISTANCE METERS
62.0	25	3.848E+08	2.693E+07	200
66.0	10	1.683E+08	1.178E+07	200
70.0	59	9.139E+08	6.397E+07	200
74.0	142	2.188E+07	1.532E+06	200
78.0	208	3.211E+07	2.247E+06	200
82.0	200	3.090E+07	2.163E+06	200
86.0	196	3.018E+07	2.113E+06	200
90.0	223	3.439E+07	2.407E+06	200
94.0	78	1.214E+07	8.501E+05	200
98.0	143	2.200E+07	1.540E+06	200
102.0	137	2.116E+07	1.481E+06	200
106.0	54	8.417E+08	5.892E+07	200
110.0	91	1.407E+07	9.848E+05	200
114.0	82	1.263E+07	8.638E+05	200
118.0	24	3.728E+08	2.609E+07	200

CROSSWIND INTEGRATED= 3.606E+05 2.524E+04
SEC/SG.M 1/M

TEST U-34 OCTOBER 4, 1964 1452 TO 1523 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. X10E+6	E/G SEC/CM. X10E+6	EU/G 1/SG.M	DISTANCE METERS
56.0	17	2.645E+08	1.852E+07	300
60.0	38	5.892E+08	4.124E+07	300
64.0	76	1.214E+07	8.501E+05	300
68.0	243	3.752E+07	2.626E+06	300
72.0	247	3.186E+07	2.231E+06	300
76.0	351	5.411E+07	3.788E+06	300
80.0	477	7.307E+07	5.143E+06	300
84.0	376	5.746E+07	4.057E+06	300
88.0	417	6.421E+07	4.495E+06	300
92.0	603	9.283E+07	6.498E+06	300
96.0	177	2.730E+07	1.911E+06	300
100.0	82	1.263E+07	8.638E+05	300
104.0	35	5.411E+08	3.788E+07	300
108.0	39	6.012E+08	4.209E+07	300
112.0	17	2.766E+08	1.936E+07	300
120.0	47	7.335E+08	5.134E+07	300

CROSSWIND INTEGRATED= 1.045E+04 7.318E+04
SEC/SG.M 1/M

TEST U-34 OCTOBER 4, 1964 1452 TO 1523 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. X10E+6	E/G SEC/CM. X10E+6	EU/G 1/SG.M	DISTANCE METERS
58.0	77	1.190E+07	8.333E+05	400
62.0	179	2.766E+07	1.936E+06	400
66.0	135	2.088E+07	1.456E+06	400
70.0	290	4.473E+07	3.131E+06	400
74.0	528	8.129E+07	5.690E+06	400
78.0	534	8.225E+07	5.757E+06	400
82.0	687	1.058E+06	7.407E+05	400
86.0	947	1.457E+06	1.020E+05	400
90.0	1437	2.211E+06	1.548E+05	400
94.0	1812	2.788E+06	1.952E+05	400
98.0	2124	3.268E+06	2.288E+05	400
102.0	324	4.990E+07	3.493E+06	400
106.0	33	5.171E+08	3.619E+07	400
110.0	22	3.487E+08	2.441E+07	400
114.0	21	3.367E+08	2.357E+07	400
118.0	70	1.082E+07	7.575E+05	400
122.0	264	4.044E+07	2.845E+06	400

CROSSWIND INTEGRATED= 4.078E+04 2.855E+03
SEC/SG.M 1/M

TEST U-34 OCTOBER 4, 1964 1452 TO 1523 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/C SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
56.0	32	4.930E-08	3.451E-07	500
60.0	60	9.379E-08	6.565E-07	500
64.0	135	2.080E-07	1.456E-06	500
68.0	254	3.908E-07	2.736E-06	500
72.0	503	7.740E-07	5.421E-06	500
76.0	645	1.023E-06	7.183E-06	500
80.0	836	1.287E-06	9.006E-06	500
84.0	845	1.301E-06	9.107E-06	500
88.0	2393	3.682E-06	2.577E-05	500
92.0	2494	3.837E-06	2.686E-05	500
96.0	866	1.332E-06	9.326E-06	500
100.0	1494	2.299E-06	1.609E-05	500
104.0	46	7.215E-08	5.050E-07	500
108.0	33	5.171E-08	3.619E-07	500
112.0	113	1.748E-07	1.220E-06	500
116.0	108	1.671E-07	1.170E-06	500
120.0	342	5.267E-07	3.687E-06	500

CROSSWIND INTEGRATED= 6.028E-08 4.220E-03
SEC/SG.M 1/M

TEST U-34 OCTOBER 4, 1964 1452 TO 1523 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/C SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
50.0	4	1.443E-08	1.010E-07	600
54.0	10	3.643E-08	1.178E-07	600
58.0	62	9.620E-08	6.734E-07	600
62.0	57	8.778E-08	6.145E-07	600
66.0	112	1.732E-07	1.212E-06	600
70.0	390	6.012E-07	4.209E-06	600
74.0	583	8.982E-07	6.288E-06	600
78.0	1572	2.419E-06	1.694E-05	600
82.0	935	1.439E-06	1.006E-05	600
86.0	1021	1.577E-06	1.100E-05	600
90.0	2011	3.094E-06	2.166E-05	600
94.0	812	1.251E-06	8.754E-06	600
98.0	1159	1.784E-06	1.249E-05	600
102.0	189	2.910E-07	2.037E-06	600
106.0	104	1.539E-07	1.077E-06	600
110.0	35	5.531E-08	3.872E-07	600
114.0	44	1.299E-07	9.091E-07	600
118.0	134	2.068E-07	1.448E-06	600
122.0	193	2.982E-07	2.087E-06	600

CROSSWIND INTEGRATED= 6.108E-08 4.276E-03
SEC/SG.M 1/M

TEST U-34 OCTOBER 4, 1964 1452 TO 1523 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/C SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
46.0	0	1.202E-09	8.417E-09	800
49.0	16	2.525E-08	1.768E-07	800
52.0	12	1.924E-08	1.347E-07	800
55.0	18	2.888E-08	2.020E-07	800
58.0	38	5.892E-08	4.124E-07	800
61.0	50	7.696E-08	5.387E-07	800
64.0	36	5.652E-08	3.956E-07	800
67.0	126	1.948E-07	1.364E-06	800
70.0	224	3.451E-07	2.416E-06	800
73.0	640	9.848E-07	6.894E-06	800
76.0	538	8.285E-07	5.799E-06	800
79.0	454	6.986E-07	4.890E-06	800
82.0	1214	1.869E-06	1.308E-05	800
85.0	852	1.312E-06	9.183E-06	800
88.0	894	1.377E-06	9.638E-06	800
91.0	869	1.337E-06	9.360E-06	800
94.0	404	6.842E-07	4.789E-06	800
97.0	537	8.273E-07	5.791E-06	800
100.0	372	5.724E-07	4.007E-06	800
103.0	151	2.333E-07	1.633E-06	800
106.0	71	1.094E-07	7.660E-07	800
109.0	38	5.892E-08	4.124E-07	800
112.0	44	6.854E-08	4.798E-07	800
115.0	35	5.531E-08	3.872E-07	800
118.0	87	1.347E-07	9.427E-07	800
121.0	56	8.658E-08	6.060E-07	800

CROSSWIND INTEGRATED= 5.045E-08 3.531E-03
SEC/SG.M 1/M

TEST U-34 OCTOBER 4, 1964 1452 TO 1523 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/C SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
48.0	22	3.067E-08	2.427E-07	1200
50.0	11	1.778E-08	1.239E-07	1200
52.0	13	2.139E-08	1.497E-07	1200
54.0	9	1.475E-08	1.033E-07	1200
56.0	18	2.877E-08	2.018E-07	1200
58.0	18	2.803E-08	1.962E-07	1200
60.0	13	2.065E-08	1.646E-07	1200
62.0	35	5.345E-08	3.769E-07	1200
64.0	27	4.205E-08	2.943E-07	1200
66.0	25	3.910E-08	2.737E-07	1200
68.0	29	4.573E-08	3.201E-07	1200
70.0	104	1.601E-07	1.120E-06	1200
72.0	182	2.803E-07	1.962E-06	1200
74.0	164	2.530E-07	1.771E-06	1200
76.0	153	2.368E-07	1.658E-06	1200
78.0	191	2.943E-07	2.060E-06	1200
80.0	366	5.636E-07	3.945E-06	1200
82.0	423	6.521E-07	4.565E-06	1200
84.0	361	5.562E-07	3.893E-06	1200
86.0	317	4.891E-07	3.483E-06	1200
88.0	271	4.182E-07	2.928E-06	1200
90.0	288	4.441E-07	3.108E-06	1200
92.0	271	4.175E-07	2.923E-06	1200
94.0	255	3.924E-07	2.747E-06	1200
96.0	83	1.291E-07	9.036E-07	1200
98.0	217	3.342E-07	2.339E-06	1200
100.0	240	3.703E-07	2.592E-06	1200
102.0	128	1.970E-07	1.379E-06	1200
104.0	146	2.250E-07	1.575E-06	1200
106.0	30	4.721E-08	3.305E-07	1200
108.0	5	8.110E-09	5.680E-08	1200
110.0	23	3.501E-08	2.479E-07	1200
112.0	5	8.852E-09	6.196E-08	1200
114.0	23	3.688E-08	2.582E-07	1200
116.0	8	1.254E-08	8.778E-08	1200
118.0	16	2.508E-08	1.756E-07	1200

CROSSWIND INTEGRATED= 2.900E-08 2.033E-03
SEC/SG.M 1/M

TEST 1-34 OCTOBER 4, 1964 1452 TO 1523 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/A SEC/CM ²	EU/Q 1/SG.M	DISTANCE METERS
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54.0	13	2.139E-08	1.497E-07	1600
56.0	4	7.377E-09	5.164E-08	1600
58.0	2	3.648E-09	2.582E-08	1600
60.0	12	1.992E-08	1.394E-07	1600
62.0	8	1.328E-08	9.294E-08	1600
64.0	3	5.164E-09	3.614E-08	1600
66.0	15	2.360E-08	1.652E-07	1600
68.0	11	1.844E-08	1.291E-07	1600
70.0	11	1.770E-08	1.239E-07	1600
72.0	26	4.057E-08	2.840E-07	1600
74.0	56	8.704E-08	6.093E-07	1600
76.0	17	5.827E-08	4.079E-07	1600
78.0	116	1.785E-07	1.250E-06	1600
80.0	163	2.515E-07	1.761E-06	1600
82.0	226	3.482E-07	2.437E-06	1600
84.0	178	2.751E-07	1.926E-06	1600
86.0	267	4.116E-07	2.881E-06	1600
88.0	145	2.242E-07	1.570E-06	1600
90.0	125	1.925E-07	1.348E-06	1600
92.0	204	3.172E-07	2.220E-06	1600
94.0	106	1.645E-07	1.151E-06	1600
96.0	126	1.940E-07	1.358E-06	1600
98.0	104	1.542E-07	1.079E-06	1600
100.0	111	1.711E-07	1.198E-06	1600
102.0	123	1.903E-07	1.332E-06	1600
104.0	143	2.213E-07	1.549E-06	1600
106.0	1	2.213E-09	1.549E-08	1600
108.0	7	1.106E-08	7.745E-08	1600
110.0	34	5.311E-08	3.718E-07	1600
112.0	8	1.328E-08	9.294E-08	1600
114.0	13	2.139E-08	1.497E-07	1600
116.0	18	2.803E-08	1.962E-07	1600

CROSSHAIR INTEGRATED= 2.089E-04 1.462E-03
SEC/SG.M 1/M

TEST 1-34 OCTOBER 4, 1964 1452 TO 1523 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/A SEC/CM ²	EU/Q 1/SG.M	DISTANCE METERS
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60.0	4	7.079E-09	4.955E-08	3200
61.0	12	1.957E-08	1.370E-07	3200
62.0	0	0.000E+00	0.000E+00	3200
63.0	2	3.331E-09	2.332E-08	3200
64.0	2	4.580E-09	3.206E-08	3200
65.0	0	1.249E-09	8.744E-09	3200
66.0	7	1.124E-08	7.870E-08	3200
67.0	5	8.744E-09	6.121E-08	3200
68.0	5	8.328E-09	5.830E-08	3200
70.0	7	1.208E-08	8.453E-08	3200
75.0	5	9.161E-09	6.413E-08	3200
76.0	1	2.498E-09	1.749E-08	3200
77.0	6	9.577E-09	6.704E-08	3200
78.0	7	1.083E-08	7.578E-08	3200
79.0	4	7.495E-09	5.247E-08	3200
80.0	5	8.328E-09	5.830E-08	3200
81.0	7	1.124E-08	7.870E-08	3200
82.0	13	2.124E-08	1.487E-07	3200
83.0	7	1.166E-08	8.161E-08	3200
84.0	14	2.207E-08	1.545E-07	3200
85.0	8	1.374E-08	9.619E-08	3200
86.0	22	3.498E-08	2.448E-07	3200
87.0	17	2.707E-08	1.895E-07	3200
88.0	13	2.124E-08	1.487E-07	3200
89.0	15	2.373E-08	1.661E-07	3200
90.0	26	4.039E-08	2.827E-07	3200
91.0	18	2.832E-08	1.982E-07	3200
92.0	25	3.914E-08	2.740E-07	3200
93.0	8	1.249E-08	8.744E-08	3200
94.0	50	7.828E-08	5.480E-07	3200
95.0	65	1.008E-07	7.054E-07	3200
96.0	21	3.373E-08	2.361E-07	3200
97.0	29	4.580E-08	3.206E-07	3200
98.0	58	8.994E-08	6.296E-07	3200
99.0	36	5.663E-08	3.964E-07	3200
100.0	46	7.204E-08	5.043E-07	3200

CROSSHAIR INTEGRATED= 5.359E-05 3.752E-04
SEC/SG.M 1/M

UNSTABLE SERIES EXPERIMENT: 35 (U-35)
GROUND LEVEL SAMPLING 100-1600 M ARCS.

TEST U-35 JULY 8, 1964 1405 TO 1431 PST
21°C SULFIDE RELEASE FROM ELEVATION OF 56M
100M ARC SAMPLER HT 1.5M U= 9.2 M/SEC AT 56M

AZIMUTH DEGREES GR=SE/CAL, M X10E+6	EXPOSURE SEC/CAL, M	F/L SEC/CAL, M	FU/D 1/50, M	DISTANCE METERS
76.0	42	3.11E-08	2.267E-07	100
80.0	15	7.55E-09	6.950E-08	100
84.0	59	2.990E-08	2.751E-07	100
88.0	69	3.46E-08	3.185E-07	100
92.0	25	1.291E-08	1.187E-07	100
96.0	51	2.581E-08	2.375E-07	100
100.0	18	9.443E-09	8.687E-08	100
104.0	16	9.14E-09	7.529E-08	100
108.0	37	1.889E-08	1.737E-07	100
112.0	0	3.18E-10	2.896E-09	100
116.0	5	2.833E-09	2.606E-08	100
120.0	12	6.295E-09	5.792E-08	100

CROSSKIND INTEGRATED= 1.312E-06
SEC/50, M 1.207E-05
1/M

TEST U-35 JULY 8, 1964 1405 TO 1431 PST
21°C SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC SAMPLER HT 1.5M U= 9.2 M/SEC AT 56M

AZIMUTH DEGREES GR=SE/CAL, M X10E+6	EXPOSURE SEC/CAL, M	F/L SEC/CAL, M	FU/D 1/50, M	DISTANCE METERS
62.0	17	8.413E-09	8.108E-08	200
66.0	115	5.792E-08	5.328E-07	200
70.0	60	3.022E-08	2.780E-07	200
74.0	50	2.518E-08	2.317E-07	200
78.0	25	1.259E-08	1.158E-07	200
82.0	37	1.889E-08	1.737E-07	200
86.0	197	9.452E-08	9.066E-07	200
90.0	7	3.777E-09	3.475E-08	200
94.0	3	1.574E-09	1.448E-08	200
98.0	10	5.036E-09	4.633E-08	200
102.0	17	8.413E-09	8.108E-08	200
106.0	39	1.952E-08	1.795E-07	200
110.0	11	5.980E-09	5.502E-08	200
114.0	12	6.295E-09	5.792E-08	200
118.0	5	2.518E-09	2.317E-08	200

CROSSKIND INTEGRATED= 4.267E-06
SEC/50, M 3.926E-05
1/M

TEST U-35 JULY 8, 1964 1405 TO 1431 PST
21°C SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M U= 9.2 M/SEC AT 56M

AZIMUTH DEGREES GR=SE/CAL, M X10E+6	EXPOSURE SEC/CAL, M	F/L SEC/CAL, M	FU/D 1/50, M	DISTANCE METERS
44.0	105	5.288E-08	4.845E-07	300
48.0	10	5.351E-09	4.923E-08	300
52.0	101	5.090E-08	4.691E-07	300
56.0	116	5.823E-08	5.357E-07	300
60.0	156	7.406E-08	7.182E-07	300
64.0	408	2.328E-07	1.862E-06	300
68.0	1058	5.272E-07	4.858E-06	300
72.0	1276	6.238E-07	5.551E-06	300
76.0	698	3.498E-07	3.214E-06	300
80.0	643	3.220E-07	2.962E-06	300
84.0	1252	6.244E-07	5.763E-06	300
88.0	990	8.995E-07	8.596E-06	300
92.0	766	3.831E-07	3.524E-06	300
96.0	504	2.474E-07	2.737E-06	300
100.0	232	1.161E-07	1.069E-06	300
104.0	56	2.801E-08	2.577E-07	300
108.0	11	5.666E-09	5.212E-08	300
112.0	3	1.574E-09	1.448E-08	300
116.0	7	3.777E-09	3.475E-08	300
120.0	4	8.731E-09	8.344E-08	300

CROSSKIND INTEGRATED= 8.830E-05
SEC/30, M 8.124E-04
1/M

TEST U-35 JULY 9, 1964 1405 TO 1431 PST
21°C SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 9.2 M/SEC AT 56M

AZIMUTH DEGREES GR=SE/CAL, M X10E+6	EXPOSURE SEC/CAL, M	F/L SEC/CAL, M	FU/D 1/50, M	DISTANCE METERS
34.0	20	1.870E-09	9.556E-08	400
42.0	426	2.380E-07	1.868E-06	400
44.0	253	1.248E-07	1.167E-06	400
50.0	144	3.208E-08	6.631E-07	400
54.0	772	3.942E-07	3.553E-06	400
58.0	150	3.704E-07	3.492E-06	400
62.0	1711	8.955E-07	7.871E-06	400
66.0	1452	2.761E-07	8.090E-06	400
70.0	2826	1.413E-06	1.300E-05	400
74.0	5013	2.507E-06	2.306E-05	400
78.0	3127	1.564E-06	1.439E-05	400
82.0	2762	1.381E-06	1.271E-05	400
86.0	1663	9.319E-07	7.654E-06	400
90.0	2923	1.442E-06	1.385E-05	400
98.0	88	4.240E-06	3.909E-07	400
98.0	10	5.351E-09	4.923E-08	400
102.0	13	6.610E-09	6.081E-08	400
106.0	7	9.000E-09	8.000E-08	400
110.0	18	9.180E-09	7.529E-08	400
114.0	5	2.833E-09	2.606E-08	400
118.0	20	1.030E-08	9.556E-08	400
122.0	62	3.118E-08	2.867E-07	400

CROSSKIND INTEGRATED= 3.928E-04
SEC/50, M 3.154E-03
1/M

TEST U-35 JULY 9, 1964 1405 TO 1431 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 500M ABC SAMPLER AT 1.5M U= 9.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPLOSIVE G=SEC/CM. X10E+6	F/Z SEC/CM. X10E+6	FU/Z 1/SG.M	DISTANCE METERS
40.0	713	3.569E-07	3.284E-06	500
40.0	638	2.130E-07	2.018E-06	500
40.0	1066	7.331E-07	6.144E-06	500
52.0	1298	6.490E-07	5.971E-06	500
56.0	901	4.706E-07	4.329E-06	500
60.0	2204	1.105E-06	1.053E-05	500
64.0	3151	1.576E-06	1.450E-05	500
68.0	4573	2.287E-06	2.104E-05	500
72.0	3524	1.960E-06	1.807E-05	500
76.0	6594	3.100E-06	3.036E-05	500
80.0	3705	1.853E-06	1.704E-05	500
84.0	1757	9.788E-07	8.085E-06	500
88.0	1066	7.235E-07	6.840E-06	500
92.0	3062	1.731E-06	1.593E-05	500
96.0	1053	5.260E-07	4.848E-06	500
100.0	95	4.753E-08	4.373E-07	500

CROSSWIND INTEGRATED= 6.451E-04
 SEC/80.M 5.035E-03
 1/M

TEST U-35 JULY 9, 1964 1405 TO 1431 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 600M ABC SAMPLER AT 1.5M U= 9.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPLOSIVE G=SEC/CM. X10E+6	F/Z SEC/CM. X10E+6	FU/Z 1/SG.M	DISTANCE METERS
38.0	139	6.049E-08	6.429E-07	600
42.0	671	3.355E-07	3.087E-06	600
46.0	1228	6.101E-07	5.650E-06	600
50.0	1528	7.682E-07	7.031E-06	600
54.0	1026	5.131E-07	4.720E-06	600
58.0	1552	7.762E-07	7.101E-06	600
62.0	188	9.403E-08	6.687E-07	600
66.0	531	2.657E-07	2.044E-06	600
70.0	267	1.338E-07	1.231E-06	600
74.0	500	2.521E-07	2.320E-06	600
78.0	2576	1.288E-06	1.185E-05	600
82.0	1759	8.727E-07	8.094E-06	600
86.0	1943	9.720E-07	8.942E-06	600
90.0	2117	1.059E-06	9.701E-06	600
94.0	1097	5.489E-07	5.050E-06	600
98.0	113	5.697E-08	5.241E-07	600

CROSSWIND INTEGRATED= 3.612E-04
 SEC/80.M 3.323E-03
 1/M

TEST U-35 JULY 9, 1964 1405 TO 1431 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 700M ABC SAMPLER AT 1.5M U= 4.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPLOSIVE G=SEC/CM. X10E+6	F/Z SEC/CM. X10E+6	FU/Z 1/SG.M	DISTANCE METERS
40.0	710	3.573E-07	3.287E-06	700
40.0	501	2.256E-07	2.739E-06	700
40.0	1110	5.571E-07	5.126E-06	700
52.0	1163	5.417E-07	5.351E-06	700
56.0	466	2.030E-07	1.868E-06	700
60.0	1600	8.020E-07	7.378E-06	700
64.0	2029	1.215E-06	1.118E-05	700
68.0	4005	2.003E-06	1.843E-05	700
72.0	3732	1.866E-06	1.717E-05	700
76.0	3200	1.600E-06	1.476E-05	700
80.0	2761	1.301E-06	1.280E-05	700
84.0	2078	1.010E-06	9.333E-06	700
88.0	1574	7.872E-07	7.202E-06	700
92.0	1022	9.112E-07	8.383E-06	700
96.0	368	1.502E-07	1.419E-06	700
100.0	11	5.280E-09	5.502E-08	700

CROSSWIND INTEGRATED= 6.719E-04
 SEC/80.M 6.181E-03
 1/M

TEST U-35 JULY 9, 1964 1405 TO 1431 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 800M ABC SAMPLER AT 1.5M U= 9.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPLOSIVE G=SEC/CM. X10E+6	F/Z SEC/CM. X10E+6	FU/Z 1/SG.M	DISTANCE METERS
40.0	605	3.028E-07	2.786E-06	800
43.0	690	3.452E-07	2.256E-06	800
46.0	610	3.223E-07	2.965E-06	800
49.0	1154	5.773E-07	5.311E-06	800
52.0	609	3.407E-07	3.217E-06	800
55.0	1024	5.127E-07	4.717E-06	800
58.0	1574	7.800E-07	7.263E-06	800
61.0	1634	8.100E-07	7.543E-06	800
64.0	1737	9.687E-07	7.892E-06	800
67.0	4858	2.420E-06	2.235E-05	800
70.0	3695	1.808E-06	1.700E-05	800
73.0	3231	1.616E-06	1.486E-05	800
76.0	2938	1.469E-06	1.352E-05	800
79.0	2521	1.261E-06	1.160E-05	800
82.0	1461	7.306E-07	6.721E-06	800
85.0	1634	8.121E-07	7.517E-06	800
88.0	1001	5.008E-07	4.607E-06	800
91.0	2014	1.007E-06	9.266E-06	800
94.0	210	1.050E-07	9.701E-07	800
97.0	91	4.564E-08	4.199E-07	800
100.0	7	3.777E-09	3.475E-08	800

CROSSWIND INTEGRATED= 6.962E-04
 SEC/80.M 6.405E-03
 1/M

TEST U-35 JULY 8, 1960 1405 TO 1431 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1000M ARC SAMPLER HT 1.5M U= 9.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/C SEC/CM ²	F/U/O 1/50, M	DISTANCE METERS
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41.0	20	1.012E-08	9.306E-08	1000
43.0	204	1.228E-07	1.138E-06	1000
45.0	10	7.225E-09	6.647E-08	1000
47.0	30	1.961E-08	1.800E-07	1000
49.0	561	2.810E-07	2.525E-06	1000
51.0	777	3.887E-07	3.576E-06	1000
53.0	383	1.418E-07	1.764E-06	1000
55.0	405	2.225E-07	2.047E-06	1000
57.0	701	3.507E-07	3.227E-06	1000
59.0	1002	5.010E-07	4.609E-06	1000
61.0	278	1.323E-07	1.282E-06	1000
63.0	864	4.321E-07	3.975E-06	1000
65.0	1566	7.884E-07	7.207E-06	1000
67.0	3842	1.921E-06	1.767E-05	1000
69.0	659	3.207E-07	3.033E-06	1000
71.0	1324	5.120E-07	4.714E-06	1000
73.0	1909	9.547E-07	8.784E-06	1000
75.0	2120	1.062E-06	9.773E-06	1000
77.0	938	4.694E-07	4.319E-06	1000
79.0	401	2.000E-07	1.848E-06	1000
81.0	479	2.246E-07	2.066E-06	1000
83.0	433	2.165E-07	1.992E-06	1000
85.0	770	3.854E-07	3.546E-06	1000
87.0	774	3.873E-07	3.563E-06	1000
89.0	753	3.765E-07	3.464E-06	1000
91.0	897	4.484E-07	4.127E-06	1000
93.0	1107	5.737E-07	5.278E-06	1000
95.0	149	9.950E-08	9.154E-07	1000
97.0	30	1.734E-08	1.595E-07	1000

CROSSWIND INTEGRATED= 4.060E-04 SEC/50, M
1/M

TEST U-35 JULY 8, 1960 1405 TO 1431 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 9.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/C SEC/CM ²	F/U/O 1/50, M	DISTANCE METERS
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44.0	50	2.943E-08	2.754E-07	1200
46.0	99	4.906E-08	4.596E-07	1200
48.0	658	3.295E-07	3.031E-06	1200
50.0	625	3.125E-07	2.875E-06	1200
52.0	588	2.543E-07	2.340E-06	1200
54.0	831	2.159E-07	1.987E-06	1200
56.0	357	1.788E-07	1.645E-06	1200
58.0	698	3.495E-07	3.215E-06	1200
60.0	286	1.433E-07	1.318E-06	1200
62.0	294	1.472E-07	1.354E-06	1200
64.0	902	4.515E-07	4.154E-06	1200
66.0	2258	1.129E-06	1.039E-05	1200
68.0	1997	9.785E-07	9.186E-06	1200
70.0	1226	6.131E-07	5.641E-06	1200
72.0	1256	6.282E-07	5.779E-06	1200
74.0	1217	6.086E-07	5.599E-06	1200
76.0	1588	7.941E-07	7.306E-06	1200
78.0	968	4.841E-07	4.454E-06	1200
80.0	1037	5.188E-07	4.773E-06	1200
82.0	772	3.864E-07	3.555E-06	1200
84.0	619	3.096E-07	2.849E-06	1200
86.0	687	3.817E-07	3.162E-06	1200
88.0	1105	5.528E-07	5.086E-06	1200
90.0	811	4.056E-07	3.732E-06	1200
92.0	784	3.720E-07	3.426E-06	1200
94.0	208	1.493E-07	1.373E-06	1200
96.0	151	7.516E-08	6.970E-07	1200
98.0	70	3.530E-08	3.248E-07	1200
100.0	6	3.096E-09	2.849E-08	1200
102.0	6	3.096E-09	2.849E-08	1200

CROSSWIND INTEGRATED= 4.555E-04 SEC/50, M
1/M

TEST U-35 JULY 8, 1960 1405 TO 1431 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 9.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/C SEC/CM ²	F/U/O 1/50, M	DISTANCE METERS
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34.0	10	1.982E-08	1.823E-07	1600
36.0	2	1.485E-09	1.329E-08	1600
38.0	8	4.120E-09	3.798E-08	1600
40.0	7	3.509E-09	3.229E-08	1600
42.0	6	0.900E+00	0.000E+00	1600
44.0	0	2.064E+10	1.899E+09	1600
46.0	4	2.477E-09	2.279E-08	1600
48.0	3	1.651E-09	1.519E-08	1600
50.0	191	0.578E-08	8.012E-07	1600
52.0	274	1.123E-07	1.033E-06	1600
54.0	246	1.234E-07	1.136E-06	1600
56.0	210	1.071E-07	9.857E-07	1600
58.0	121	6.069E-08	5.584E-07	1600
60.0	73	3.474E-08	3.381E-07	1600
62.0	125	6.255E-08	5.755E-07	1600
64.0	193	9.682E-08	8.907E-07	1600
66.0	851	4.259E-07	3.918E-06	1600
68.0	1043	5.316E-07	4.900E-06	1600
70.0	561	2.807E-07	2.583E-06	1600
72.0	574	2.874E-07	2.684E-06	1600
74.0	754	3.774E-07	3.472E-06	1600
76.0	541	2.708E-07	2.492E-06	1600
78.0	642	3.414E-07	3.101E-06	1600
80.0	588	2.902E-07	2.706E-06	1600
82.0	404	2.023E-07	1.861E-06	1600
84.0	255	1.278E-07	1.176E-06	1600
86.0	270	1.350E-07	1.242E-06	1600
88.0	184	9.228E-08	8.489E-07	1600
90.0	205	1.028E-07	9.458E-07	1600
92.0	156	7.803E-08	7.179E-07	1600
94.0	157	7.886E-08	7.255E-07	1600
96.0	30	1.961E-08	1.804E-07	1600
98.0	42	2.187E-08	1.975E-07	1600
100.0	21	1.073E-08	9.876E-08	1600
102.0	16	9.051E-09	7.407E-08	1600
104.0	12	6.399E-09	5.887E-08	1600
106.0	6	3.004E-09	2.849E-08	1600
5 108.0	3	1.858E-09	1.709E-08	1600

CROSSWIND INTEGRATED= 2.472E-04 SEC/50, M
1/M

UNSTABLE SERIES EXPERIMENT: 36 (U-36)
GROUND LEVEL SAMPLING 100-1600 M ARCS.

TEST U-36 DETONED 4, 1964 1310 TO 1335 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
100% ARC SAMPLER HT 1.5M W = 3.6 M/SEC AT 26M

AZIMUTH EXPOSURE F/W F/W/D DISTANCE
DEGREES G=SEC/CM² SEC/CM² 1/SEC² METERS
X10E+6

12.0	103	7.521E-08	2.671E-07	100
16.0	109	3.527E-07	1.274E-06	100
20.0	903	6.715E-07	2.402E-06	100
24.0	1760	1.246E-06	4.559E-06	100
28.0	3691	2.619E-06	9.429E-06	100
32.0	625	5.237E-07	2.137E-06	100
36.0	6520	4.691E-06	1.689E-05	100
40.0	10541	7.584E-06	2.730E-05	100
44.0	22517	1.674E-05	5.310E-05	100
48.0	22505	2.087E-05	7.512E-05	100
52.0	36743	2.643E-05	9.516E-05	100
56.0	51695	3.676E-05	1.323E-04	100
60.0	1032	7.428E-07	2.674E-06	100
P 64.0	1358	9.774E-07	3.519E-06	100
P 68.0	1399	1.007E-06	3.626E-06	100
72.0	1297	9.386E-07	3.361E-06	100
76.0	27014	1.904E-05	6.997E-05	100
80.0	23796	1.712E-05	6.162E-05	100
84.0	19099	1.432E-05	5.154E-05	100
88.0	22991	1.654E-05	5.955E-05	100
92.0	5302	6.038E-06	2.174E-05	100
96.0	11511	8.228E-06	2.982E-05	100
100.0	24020	1.400E-05	5.185E-05	100
104.0	8003	6.005E-06	2.176E-05	100
108.0	13086	9.703E-06	3.493E-05	100
112.0	15966	1.108E-05	4.134E-05	100
116.0	18443	2.672E-06	3.482E-05	100
120.0	17635	1.269E-05	4.567E-05	100

CROSS-IND INTEGRATED= 1.857E-03 6.687E-03
SEC/SEC² 1/M

TEST U-36 DETONED 4, 1964 1310 TO 1335 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200% ARC SAMPLER HT 1.5M W = 3.6 M/SEC AT 26M

AZIMUTH EXPOSURE F/W F/W/D DISTANCE
DEGREES G=SEC/CM² SEC/CM² 1/SEC² METERS
X10E+6

24.0	90	6.705E-08	2.442E-07	200
28.0	278	2.007E-07	7.226E-07	200
32.0	875	6.207E-07	2.267E-06	200
36.0	4243	2.330E-06	8.001E-06	200
40.0	5225	6.007E-06	2.519E-05	200
44.0	21665	1.573E-05	5.683E-05	200
48.0	37040	2.696E-05	9.707E-05	200
52.0	45357	2.504E-05	9.157E-05	200
56.0	23979	1.725E-05	6.211E-05	200
60.0	27266	1.962E-05	7.062E-05	200
64.0	26055	1.870E-05	6.748E-05	200
68.0	25792	1.956E-05	6.660E-05	200
72.0	36765	2.645E-05	9.523E-05	200
76.0	35892	2.582E-05	9.296E-05	200
80.0	27327	1.966E-05	7.078E-05	200
84.0	32835	2.362E-05	8.504E-05	200
88.0	12777	9.143E-06	3.309E-05	200
92.0	9692	6.506E-06	2.342E-05	200
P 96.0	15921	1.145E-05	4.123E-05	200
P 102.0	10235	7.363E-06	2.651E-05	200
106.0	5375	3.467E-06	1.392E-05	200
110.0	20268	1.473E-05	5.301E-05	200
114.0	17944	1.291E-05	4.648E-05	200
118.0	20651	1.486E-05	5.349E-05	200
122.0	22003	1.583E-05	5.699E-05	200

CROSS-IND INTEGRATED= 4.814E-03 1.733E-02
SEC/SEC² 1/M

TEST U-36 DETONED 4, 1964 1310 TO 1335 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
300% ARC SAMPLER HT 1.5M W = 3.6 M/SEC AT 26M

AZIMUTH EXPOSURE F/W F/W/D DISTANCE
DEGREES G=SEC/CM² SEC/CM² 1/SEC² METERS
X10E+6

24.0	24	1.767E-08	6.361E-08	300
28.0	122	8.424E-08	3.180E-07	300
32.0	236	6.769E-07	2.434E-06	300
36.0	9512	3.266E-06	1.164E-05	300
40.0	12221	1.033E-05	5.159E-05	300
44.0	22540	1.229E-05	5.864E-05	300
48.0	19344	1.438E-05	5.176E-05	300
52.0	16788	1.222E-05	4.060E-05	300
56.0	17461	1.292E-05	4.652E-05	300
60.0	17992	1.290E-05	4.657E-05	300
64.0	17910	1.289E-05	4.639E-05	300
Z 72.0	18667	1.320E-05	4.783E-05	300
76.0	18837	1.467E-05	5.843E-05	300
80.0	23005	1.710E-05	6.189E-05	300
84.0	22211	2.330E-05	7.307E-05	300
88.0	6153	4.027E-06	1.594E-05	300
92.0	4577	2.646E-06	9.526E-06	300
96.0	5076	3.652E-06	1.315E-05	300
100.0	2869	2.067E-06	7.432E-06	300
104.0	1524	1.197E-06	3.909E-06	300
108.0	5939	3.913E-06	1.409E-05	300
P 112.0	7575	5.450E-06	1.962E-05	300
P 116.0	13290	9.561E-06	3.442E-05	300
120.0	5942	4.275E-06	1.539E-05	300

CROSS-IND INTEGRATED= 4.158E-03 1.497E-02
SEC/SEC² 1/M

TEST U-36 OCTOBER 4, 1966 1310 TO 1335 PST
 7100 SULFIDE RELEASE FROM ELEVATION OF 26M
 4000 ARC SAMPLER HT 1.5M W= 3.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CM ² X10E+6	F/F ₀ SEC/CM ²	F/F ₀ 1/SEC	DISTANCE METERS
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Q 34.0	30	2.101E-08	7.867E-08	400
Q 38.0	86	6.215E-08	2.239E-07	400
Q 42.0	745	5.364E-07	1.931E-06	400
46.0	21302	1.543E-05	5.517E-05	400
50.0	5332	3.836E-06	1.351E-05	400
54.0	15255	1.183E-05	4.050E-05	400
58.0	12204	8.045E-06	3.184E-05	400
62.0	10154	7.367E-06	2.631E-05	400
66.0	8894	4.961E-06	1.786E-05	400
70.0	10294	7.399E-06	2.664E-05	400
74.0	8860	4.942E-06	1.779E-05	400
78.0	8935	6.431E-06	2.315E-05	400
82.0	7465	5.371E-06	1.934E-05	400
86.0	7470	5.375E-06	1.935E-05	400
90.0	1107	7.965E-07	2.867E-06	400
Q 94.0	6	4.947E-09	1.761E-08	400
Q 98.0	87	6.290E-08	2.264E-07	400
Q 102.0	53	3.816E-08	1.374E-07	400
106.0	305	2.106E-07	7.913E-07	400
110.0	2512	1.808E-06	6.508E-06	400
114.0	6010	1.324E-06	1.557E-05	400
118.0	7203	2.328E-06	8.531E-06	400
122.0	1425	1.025E-06	3.692E-06	400

CROSS-IND INTEGRATED= 2.586E-03 SEC/CM²
 1/M

TEST U-36 OCTOBER 4, 1966 1310 TO 1335 PST
 7100 SULFIDE RELEASE FROM ELEVATION OF 26M
 5000 ARC SAMPLER HT 1.5M W= 3.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CM ² X10E+6	F/F ₀ SEC/CM ²	F/F ₀ 1/SEC	DISTANCE METERS
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36.0	489	3.520E-07	1.267E-06	500
40.0	2302	1.686E-06	6.088E-06	500
44.0	12464	8.967E-06	3.228E-05	500
48.0	10282	7.397E-06	2.663E-05	500
52.0	8978	6.448E-06	2.325E-05	500
56.0	5306	3.814E-06	1.373E-05	500
60.0	5919	4.259E-06	1.533E-05	500
64.0	3835	2.759E-06	9.933E-06	500
68.0	7018	5.050E-06	1.818E-05	500
72.0	6004	4.387E-06	1.579E-05	500
76.0	4445	3.198E-06	1.151E-05	500
80.0	4001	2.879E-06	1.036E-05	500
84.0	3839	2.762E-06	9.943E-06	500
88.0	1189	1.559E-07	3.081E-06	500
92.0	262	1.887E-07	6.793E-07	500
96.0	383	2.756E-07	9.923E-07	500
100.0	1035	7.449E-07	2.682E-06	500
104.0	1057	7.604E-07	2.738E-06	500
108.0	1152	8.260E-07	2.984E-06	500
112.0	1594	1.147E-06	4.129E-06	500
116.0	1949	1.402E-06	5.048E-06	500
120.0	1064	7.661E-07	2.758E-06	500

CROSS-IND INTEGRATED= 2.127E-03 SEC/CM²
 1/M

TEST U-36 OCTOBER 4, 1966 1310 TO 1335 PST
 7100 SULFIDE RELEASE FROM ELEVATION OF 26M
 4000 ARC SAMPLER HT 1.5M W= 3.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CM ² X10E+6	F/F ₀ SEC/CM ²	F/F ₀ 1/SEC	DISTANCE METERS
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30.0	29	2.120E-08	7.633E-08	600
34.0	69	5.018E-08	1.806E-07	600
38.0	1474	1.062E-06	3.824E-06	600
42.0	6565	4.729E-06	1.701E-05	600
46.0	8963	6.448E-06	2.321E-05	600
50.0	5896	4.094E-06	1.474E-05	600
54.0	3885	2.795E-06	1.006E-05	600
58.0	3239	2.331E-06	8.391E-06	600
62.0	2721	1.958E-06	7.048E-06	600
66.0	2907	2.092E-06	7.531E-06	600
70.0	3868	2.723E-06	1.002E-05	600
74.0	2524	1.516E-06	5.539E-06	600
78.0	3558	2.562E-06	9.215E-06	600
82.0	2688	1.934E-06	6.964E-06	600
86.0	1792	1.294E-06	4.659E-06	600
90.0	459	3.308E-07	1.191E-06	600
Q 94.0	442	3.180E-07	1.145E-06	600
Q 98.0	122	8.834E-08	3.180E-07	600
Q 102.0	399	2.876E-07	1.036E-06	600
Q 106.0	453	3.265E-07	1.175E-06	600
P 110.0	1224	8.806E-07	3.170E-06	600
P 114.0	1086	7.527E-07	2.710E-06	600
P 118.0	1075	7.739E-07	2.786E-06	600
Q 122.0	1301	9.364E-07	3.371E-06	600

CROSS-IND INTEGRATED= 1.703E-03 SEC/CM²
 1/M

TEST U-36 OCTOBER 4, 1966 1310 TO 1335 PST
 7100 SULFIDE RELEASE FROM ELEVATION OF 26M
 7000 ARC SAMPLER HT 1.5M W= 3.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CM ² X10E+6	F/F ₀ SEC/CM ²	F/F ₀ 1/SEC	DISTANCE METERS
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28.0	26	1.490E-08	5.343E-08	700
32.0	86	2.615E-08	9.414E-08	700
36.0	332	2.405E-07	8.803E-07	700
40.0	3341	2.402E-06	8.653E-06	700
44.0	4210	4.468E-06	1.608E-05	700
48.0	9506	3.510E-06	1.271E-05	700
52.0	3131	2.293E-06	8.111E-06	700
56.0	940	7.053E-07	2.539E-06	700
P 60.0	3196	2.235E-06	8.045E-06	700
P 64.0	1945	7.301E-07	2.628E-06	700
P 68.0	1728	1.280E-06	4.678E-06	700
Q 72.0	2171	1.562E-06	5.623E-06	700
76.0	2064	1.486E-06	5.398E-06	700
80.0	2624	1.888E-06	6.798E-06	700
84.0	2576	1.650E-06	6.674E-06	700
88.0	575	4.181E-07	1.491E-06	700
92.0	321	2.311E-07	8.320E-07	700
96.0	195	1.496E-07	5.063E-07	700
100.0	261	1.888E-07	6.768E-07	700
104.0	147	1.280E-07	4.351E-07	700
X 108.0	28	2.050E-08	7.378E-08	700
X 112.0	18	1.065E-08	3.816E-08	700
X 116.0	39	2.227E-08	1.018E-07	700

CROSS-IND INTEGRATED= 1.261E-03 SEC/CM²
 1/M

TEST U-36 OCTOBER 4, 1964 1310 TO 1335 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
PODA ARC SAMPLER HT 1.5' U= 3.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CM ² TIME+6	E/Z SEC/CM ²	E/U 1/SEC ²	DISTANCE METERS
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34.0	60	3.382E-08	1.577E-07	800
37.0	892	4.029E-07	2.313E-06	800
40.0	2679	1.928E-06	6.943E-06	800
43.0	5193	3.717E-06	1.345E-05	800
46.0	6024	4.334E-06	1.560E-05	800
49.0	2965	2.134E-06	7.681E-06	800
52.0	2097	1.509E-06	5.432E-06	800
55.0	2267	1.631E-06	5.872E-06	800
58.0	1579	1.136E-06	4.091E-06	800
61.0	1109	7.979E-07	2.872E-06	800
64.0	787	5.668E-07	2.040E-06	800
67.0	897	6.382E-07	2.297E-06	800
70.0	1049	7.548E-07	2.717E-06	800
73.0	1379	9.923E-07	3.572E-06	800
76.0	1741	1.253E-06	4.511E-06	800
79.0	1667	1.199E-06	4.318E-06	800
82.0	1941	1.397E-06	5.027E-06	800
85.0	1134	8.163E-07	2.939E-06	800
88.0	412	2.968E-07	1.069E-06	800
91.0	197	1.421E-07	5.114E-07	800
94.0	55	3.958E-08	1.425E-07	800
97.0	89	6.811E-08	2.315E-07	800
100.0	188	1.357E-07	4.885E-07	800
103.0	171	1.237E-07	4.452E-07	800
106.0	471	3.392E-07	1.221E-06	800
109.0	1009	7.245E-07	2.615E-06	800
112.0	1702	1.225E-06	4.409E-06	800
115.0	586	4.215E-07	1.519E-06	800
118.0	279	2.014E-07	7.251E-07	800
121.0	389	2.806E-07	1.010E-06	800

CROSSWIND INTEGRATED = 1.236E-03 SEC/SEC² 4.450E-03 1/M

TEST U-36 OCTOBER 4, 1964 1310 TO 1335 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1000X ARC SAMPLER HT 1.5' U= 3.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CM ² TIME+6	E/Z SEC/CM ²	E/U 1/SEC ²	DISTANCE METERS
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34.0	26	1.892E-08	6.812E-08	1000
35.0	114	4.238E-08	2.966E-07	1000
37.0	16	1.183E-08	4.257E-08	1000
39.0	21	1.517E-08	5.534E-08	1000
41.0	1210	8.768E-07	3.135E-06	1000
43.0	1912	1.376E-06	4.953E-06	1000
45.0	2461	1.771E-06	6.374E-06	1000
47.0	1029	1.028E-06	3.702E-06	1000
49.0	738	5.310E-07	1.911E-06	1000
51.0	681	4.904E-07	1.765E-06	1000
53.0	213	5.454E-07	2.107E-06	1000
55.0	905	4.516E-07	2.346E-06	1000
57.0	26	1.892E-08	6.812E-08	1000
59.0	9	7.045E-09	2.554E-08	1000
61.0	595	4.285E-07	1.543E-06	1000
63.0	451	3.248E-07	1.169E-06	1000
65.0	6	4.336E-09	1.561E-08	1000
67.0	20	1.498E-08	5.392E-08	1000
69.0	252	1.817E-07	6.542E-07	1000
71.0	456	3.288E-07	1.184E-06	1000
73.0	425	3.043E-07	1.103E-06	1000
75.0	791	5.694E-07	2.051E-06	1000
77.0	810	5.837E-07	2.099E-06	1000
79.0	260	1.872E-07	6.741E-07	1000
81.0	735	9.294E-07	1.906E-06	1000
83.0	670	4.825E-07	1.737E-06	1000
85.0	215	1.549E-07	5.577E-07	1000
87.0	166	1.124E-07	4.300E-07	1000
89.0	25	1.813E-08	6.528E-08	1000
91.0	35	2.562E-08	9.224E-08	1000
93.0	30	2.168E-08	7.805E-08	1000
95.0	81	5.873E-08	2.114E-07	1000
97.0	29	7.135E-08	2.669E-07	1000
99.0	87	6.387E-08	2.271E-07	1000
101.0	23	1.656E-08	5.960E-08	1000
103.0	65	4.710E-08	1.703E-07	1000
105.0	71	5.140E-08	1.859E-07	1000
107.0	189	1.344E-07	4.910E-07	1000
109.0	6	0.000E+00	0.000E+00	1000
111.0	0	0.000E+00	0.000E+00	1000
113.0	83	5.902E-08	2.137E-07	1000
115.0	62	5.066E-08	1.802E-07	1000

CROSSWIND INTEGRATED = 4.292E-04 SEC/SEC² 1.545E-03 1/M

TEST U-36 OCTOBER 8, 1964 1310 TO 1335 PST
 71°C SULFIDE RELEASE FROM ELEVATION OF 26M
 1200M ARC SAMPLER HT 1.5M U= 3.6 M/SFC AT 26M

AZIMUTH DEGREES	EXPOSURE GMS/SEC/CM X10E+6	FZ SEC/CM X10E+6	FU/G 1/SEC X10E+6	DISTANCE METERS
30.0	8	4.336E-09	1.561E-08	1200
32.0	36	2.641E-08	4.508E-08	1200
34.0	124	8.948E-08	3.221E-07	1200
36.0	116	9.324E-08	3.923E-07	1200
38.0	133	1.321E-07	4.754E-07	1200
40.0	307	2.211E-07	7.961E-07	1200
42.0	779	5.610E-07	2.019E-06	1200
44.0	957	6.996E-07	2.479E-06	1200
46.0	902	6.492E-07	2.337E-06	1200
48.0	969	6.977E-07	2.512E-06	1200
50.0	641	6.055E-07	2.180E-06	1200
52.0	727	5.235E-07	1.885E-06	1200
54.0	449	3.236E-07	1.165E-06	1200
56.0	495	3.563E-07	1.283E-06	1200
58.0	201	1.451E-07	5.222E-07	1200
60.0	145	1.009E-07	3.775E-07	1200
62.0	106	7.667E-08	2.753E-07	1200
64.0	278	2.002E-07	7.209E-07	1200
66.0	173	1.250E-07	4.498E-07	1200
68.0	141	1.021E-07	3.675E-07	1200
70.0	276	1.297E-07	7.152E-07	1200
72.0	304	2.102E-07	7.890E-07	1200
74.0	408	2.937E-07	1.057E-06	1200
76.0	344	2.475E-07	8.912E-07	1200
78.0	961	6.914E-07	2.489E-06	1200
80.0	731	5.262E-07	1.894E-06	1200
82.0	481	3.461E-07	1.247E-06	1200
84.0	256	1.809E-07	6.655E-07	1200
86.0	124	8.948E-08	3.221E-07	1200
88.0	22	1.416E-08	5.818E-08	1200
90.0	9	7.005E-09	2.558E-08	1200
92.0	16	1.183E-08	4.257E-08	1200
94.0	36	2.402E-08	9.366E-08	1200
96.0	16	1.222E-08	4.399E-08	1200
98.0	55	3.981E-08	1.433E-07	1200
100.0	13	9.460E-09	3.496E-08	1200
102.0	8	5.913E-09	2.129E-08	1200
104.0	9	7.005E-09	2.554E-08	1200
106.0	1	1.183E-09	4.257E-09	1200
108.0	77	5.597E-08	2.015E-07	1200
110.0	105	7.608E-08	2.739E-07	1200
112.0	33	2.460E-08	8.790E-08	1200
114.0	75	5.400E-08	1.958E-07	1200
116.0	59	4.207E-08	1.547E-07	1200
118.0	16	1.222E-08	4.399E-08	1200
120.0	6	4.336E-09	1.561E-08	1200

CROSS-SECTION INTEGRATION = 3.737E-04
 SEC/CM X10E+6 1.71

TEST U-36 OCTOBER 8, 1964 1310 TO 1335 PST
 71°C SULFIDE RELEASE FROM ELEVATION OF 26M
 1200M ARC SAMPLER HT 1.5M U= 3.6 M/SFC AT 26M

AZIMUTH DEGREES	EXPOSURE GMS/SEC/CM X10E+6	FZ SEC/CM X10E+6	FU/G 1/SEC X10E+6	DISTANCE METERS
32.0	23	1.605E-08	6.102E-08	1600
34.0	109	7.206E-08	2.826E-07	1600
36.0	58	4.176E-08	1.504E-07	1600
38.0	70	5.085E-08	1.831E-07	1600
40.0	92	6.627E-08	2.348E-07	1600
42.0	318	2.294E-07	8.259E-07	1600
44.0	504	3.627E-07	1.306E-06	1600
46.0	493	3.841E-07	1.253E-06	1600
48.0	379	2.728E-07	9.220E-07	1600
50.0	518	3.871E-07	1.394E-06	1600
52.0	226	2.133E-07	7.677E-07	1600
54.0	237	1.711E-07	6.159E-07	1600
56.0	175	1.265E-07	4.555E-07	1600
58.0	56	4.060E-08	1.462E-07	1600
60.0	48	3.442E-08	1.249E-07	1600
62.0	56	4.106E-08	1.476E-07	1600
64.0	12	8.672E-09	3.122E-08	1600
66.0	49	3.587E-08	1.291E-07	1600
68.0	12	8.672E-09	3.122E-08	1600
70.0	36	2.168E-08	7.805E-08	1600
72.0	48	3.351E-08	1.206E-07	1600
74.0	48	3.588E-08	1.263E-07	1600
76.0	132	9.500E-08	3.420E-07	1600
78.0	255	1.841E-07	6.627E-07	1600
80.0	198	1.427E-07	5.137E-07	1600
82.0	209	1.506E-07	5.421E-07	1600
84.0	58	4.178E-08	1.504E-07	1600
86.0	48	3.508E-08	1.263E-07	1600
88.0	4	3.151E-09	1.135E-08	1600
90.0	2	1.971E-09	7.095E-09	1600
92.0	0	0.000E+00	0.000E+00	1600
94.0	1	7.804E-10	2.838E-09	1600
96.0	3	2.365E-09	8.514E-09	1600
98.0	16	1.222E-08	4.399E-08	1600
100.0	0	0.000E+00	0.000E+00	1600
102.0	1	7.804E-10	2.838E-09	1600
104.0	18	1.301E-08	4.683E-08	1600
106.0	10	7.804E-09	2.838E-08	1600
108.0	12	8.672E-09	3.122E-08	1600
110.0	15	7.804E-09	2.838E-08	1600
112.0	27	2.016E-08	7.237E-08	1600

CROSS-SECTION INTEGRATION = 1.624E-04
 SEC/CM X10E+6 1.71

UNSTABLE SERIES EXPERIMENT: 37 (U-37)
GROUND LEVEL SAMPLING 100-3200 M ARCS. FOR EASE IN STATISTICAL ANALYSIS, ALL SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES FROM THEIR ACTUAL POSITIONS. THE TRACER WAS NOT DETECTED ON THE 100 OR 200 M ARCS. SOME FILTERS WERE ONLY EXPOSED FOR A SHORT PERIOD OF TIME.

TEST U-37 NOVEMBER 11, 1964 1157 TO 1254 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
300M ARC SAMPLER HT 1.5M U= 4.5 M/SEC AT 111M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/U SEC/CM ²	F/U 1/SG.M	DISTANCE METERS
26.0	1687	1.298E-07	5.882E-07	300
30.0	155	1.198E-08	5.373E-08	300
34.0	256	1.972E-08	8.875E-08	300
38.0	48	3.703E-09	1.666E-08	300
42.0	2888	2.222E-07	9.997E-07	300
46.0	2634	2.027E-07	9.120E-07	300
50.0	4465	1.435E-07	1.546E-06	300
54.0	8698	3.814E-07	1.626E-06	300
58.0	1588	1.191E-07	5.359E-07	300
62.0	95	7.330E-09	3.298E-08	300
66.0	327	2.516E-08	1.132E-07	300
70.0	8688	3.145E-07	1.415E-06	300
74.0	3062	2.355E-07	1.060E-06	300
78.0	2053	1.579E-07	7.107E-07	300
82.0	403	3.106E-08	1.398E-07	300
86.0	9609	7.342E-07	3.326E-06	300
90.0	74	5.743E-09	2.584E-08	300
94.0	421	3.282E-08	1.459E-07	300

CROSSWIND INTEGRATED= 6.206E-05 2.793E-04
SEC/30.M 1/M

TEST U-37 NOVEMBER 11, 1964 1157 TO 1254 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
400M ARC SAMPLER HT 1.5M U= 4.5 M/SEC AT 111M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/U SEC/CM ²	F/U 1/SG.M	DISTANCE METERS
24.0	1291	9.937E-08	4.472E-07	400
28.0	16149	1.242E-06	5.590E-06	400
32.0	9295	7.150E-07	3.218E-06	400
36.0	2233	1.718E-07	7.733E-07	400
40.0	1784	1.373E-07	6.179E-07	400
44.0	0	0.000E+00	0.000E+00	400
48.0	4048	3.114E-07	1.401E-06	400
52.0	1835	1.412E-07	6.352E-07	400
56.0	2526	1.944E-07	8.746E-07	400
60.0	2897	2.229E-07	1.003E-06	400
64.0	4917	3.783E-07	1.702E-06	400
68.0	2745	2.112E-07	9.504E-07	400
72.0	6787	5.221E-07	2.349E-06	400
76.0	5547	4.247E-07	1.920E-06	400
80.0	5341	4.140E-07	1.863E-06	400
84.0	1241	9.552E-08	4.298E-07	400
88.0	203	1.564E-08	7.039E-08	400
92.0	0	0.000E+00	0.000E+00	400
96.0	35	2.720E-09	1.224E-08	400
100.0	28	2.191E-09	9.861E-09	400
104.0	48	3.703E-09	1.666E-08	400

CROSSWIND INTEGRATED= 1.482E-04 6.670E-04
SEC/30.M 1/M

TEST U-37 NOVEMBER 11, 1964 1157 TO 1254 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
500M ARC SAMPLER HT 1.5M U= 4.5 M/SEC AT 111M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/U SEC/CM ²	F/U 1/SG.M	DISTANCE METERS
22.0	6	5.290E-10	2.380E-09	500
26.0	6411	4.932E-07	2.219E-06	500
30.0	33698	2.592E-06	1.167E-05	500
34.0	21223	1.633E-06	7.347E-06	500
38.0	2440	1.877E-07	8.447E-07	500
42.0	2720	2.092E-07	9.416E-07	500
46.0	2302	1.771E-07	7.971E-07	500
50.0	2352	1.810E-07	8.144E-07	500
54.0	5209	4.007E-07	1.803E-06	500
58.0	5867	4.514E-07	2.031E-06	500
62.0	3911	3.009E-07	1.354E-06	500
66.0	6744	5.188E-07	2.335E-06	500
70.0	10130	7.792E-07	3.507E-06	500
74.0	362	2.788E-08	1.255E-07	500
78.0	334	2.577E-08	1.160E-07	500
82.0	82	6.348E-09	2.856E-08	500
86.0	195	1.508E-08	6.767E-08	500
90.0	502	3.869E-08	1.741E-07	500
94.0	110	8.463E-09	3.809E-08	500

CROSSWIND INTEGRATED= 2.809E-04 1.264E-03
SEC/30.M 1/M

TEST U-37 NOVEMBER 11, 1964 1157 TO 1254 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
600M ARC SAMPLER HT 1.5M U= 4.5 M/SEC AT 111M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/U SEC/CM ²	F/U 1/SG.M	DISTANCE METERS
24.0	29	2.267E-09	1.020E-08	600
28.0	17370	1.336E-06	6.013E-06	600
32.0	32991	2.538E-06	1.142E-05	600
36.0	17191	1.322E-06	5.947E-06	600
40.0	1224	9.816E-08	4.237E-07	600
44.0	3627	2.791E-07	1.256E-06	600
48.0	2452	1.897E-07	8.493E-07	600
52.0	5255	4.043E-07	1.819E-06	600
56.0	3263	2.510E-07	1.130E-06	600
60.0	5264	4.050E-07	1.822E-06	600
64.0	4975	3.827E-07	1.722E-06	600
68.0	4260	6.354E-07	2.859E-06	600
72.0	28908	2.224E-06	1.001E-05	600
76.0	25465	1.959E-06	8.815E-06	600
80.0	10471	8.055E-07	3.625E-06	600
84.0	7391	5.646E-07	2.559E-06	600
88.0	3521	2.709E-07	1.219E-06	600
92.0	101	7.783E-09	3.503E-08	600
96.0	4	3.778E-10	1.700E-09	600
100.0	8	6.801E-10	3.060E-09	600

CROSSWIND INTEGRATED= 5.728E-04 2.578E-03
SEC/30.M 1/M

TEST U-37 NOVEMBER 11, 1964 1157 TO 1254 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
700M ARC SAMPLER HT 1.5M U= 4.5 M/SEC AT 111M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM=SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/80.M	DISTANCE METERS
26.0	193	1.489E-08	6.699E-08	700
30.0	30209	2.324E-06	1.046E-05	700
34.0	23387	1.799E-06	6.096E-06	700
38.0	9566	7.359E-07	3.311E-06	700
42.0	1666	1.282E-07	5.767E-07	700
46.0	4580	3.524E-07	1.586E-06	700
50.0	4346	3.344E-07	1.505E-06	700
54.0	2593	1.905E-07	8.977E-07	700
58.0	7688	5.915E-07	2.662E-06	700
62.0	13066	1.005E-06	4.523E-06	700
66.0	6387	4.913E-07	2.211E-06	700
70.0	17596	1.354E-06	6.091E-06	700
74.0	1664	1.280E-07	5.760E-07	700
78.0	740	5.698E-08	2.564E-07	700
82.0	495	3.809E-08	1.714E-07	700
86.0	177	1.368E-08	6.155E-08	700
90.0	80	6.196E-09	2.788E-08	700

CROSSWIND INTEGRATED= 4.678E-04
SEC/80.M 1/M

TEST U-37 NOVEMBER 11, 1964 1157 TO 1254 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
800M ARC SAMPLER HT 1.5M U= 4.5 M/SEC AT 111M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM=SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/80.M	DISTANCE METERS
28.0	1675	1.289E-07	5.801E-07	800
31.0	22837	1.757E-06	7.905E-06	800
34.0	2480	1.877E-07	8.447E-07	800
37.0	1008	7.761E-08	3.492E-07	800
40.0	158	1.217E-08	5.475E-08	800
43.0	275	2.116E-08	9.521E-08	800
46.0	4961	3.817E-07	1.718E-06	800
49.0	1910	1.470E-07	6.614E-07	800
52.0	2313	1.780E-07	8.009E-07	800
55.0	4561	3.509E-07	1.579E-06	800
58.0	4405	3.389E-07	1.525E-06	800
61.0	26722	2.056E-06	9.250E-06	800
64.0	15540	1.195E-06	5.380E-06	800
67.0	12303	9.464E-07	4.259E-06	800
70.0	14059	1.082E-06	4.867E-06	800
73.0	29291	2.253E-06	1.014E-05	800
76.0	24158	1.858E-06	8.362E-06	800
79.0	14367	1.105E-06	4.973E-06	800
82.0	9101	7.001E-07	3.151E-06	800
85.0	8232	6.332E-07	2.850E-06	800
88.0	4590	3.531E-07	1.589E-06	800
91.0	2843	2.188E-07	9.844E-07	800
94.0	54	4.156E-09	1.870E-08	800
97.0	125	9.672E-09	4.353E-08	800

CROSSWIND INTEGRATED= 6.700E-04
SEC/80.M 1/M

TEST U-37 NOVEMBER 11, 1964 1157 TO 1254 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
1200M ARC SAMPLER HT 1.5M U= 4.5 M/SEC AT 111M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM=SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/80.M	DISTANCE METERS
34.0	10867	8.052E-07	3.623E-06	1200
36.0	10788	8.268E-07	3.721E-06	1200
38.0	11495	8.804E-07	3.962E-06	1200
40.0	9062	6.971E-07	3.137E-06	1200
42.0	1516	1.167E-07	5.250E-07	1200
44.0	905	6.947E-08	3.135E-07	1200
46.0	2742	2.109E-07	9.493E-07	1200
48.0	4083	3.141E-07	1.413E-06	1200
50.0	3254	2.503E-07	1.126E-06	1200
52.0	1770	1.362E-07	6.120E-07	1200
54.0	2311	1.793E-07	8.070E-07	1200
56.0	13156	1.012E-06	4.554E-06	1200
58.0	18167	1.397E-06	6.289E-06	1200
60.0	20069	1.504E-06	6.947E-06	1200
62.0	11200	8.616E-07	3.877E-06	1200
64.0	7450	5.731E-07	2.579E-06	1200
66.0	4424	3.403E-07	1.532E-06	1200
68.0	3656	2.813E-07	1.266E-06	1200
70.0	4638	3.568E-07	1.606E-06	1200
72.0	5744	4.419E-07	1.989E-06	1200
74.0	6427	4.940E-07	2.225E-06	1200
76.0	9979	7.678E-07	3.454E-06	1200
78.0	14137	1.087E-06	4.894E-06	1200
80.0	9743	7.495E-07	3.373E-06	1200
82.0	5936	4.566E-07	2.055E-06	1200
84.0	7495	5.766E-07	2.595E-06	1200
86.0	5781	4.447E-07	2.001E-06	1200
88.0	4702	3.617E-07	1.628E-06	1200
90.0	8687	5.145E-07	2.315E-06	1200
92.0	1888	1.453E-07	6.538E-07	1200
94.0	1940	1.493E-07	6.718E-07	1200
96.0	309	2.381E-08	1.072E-07	1200
98.0	1913	1.472E-07	6.623E-07	1200

CROSSWIND INTEGRATED= 7.211E-04
SEC/80.M 1/M

TEST U-37 NOVEMBER 11, 1964 1157 TO 1258 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
1600M ARC SAMPLER HT 1.5M U= 4.5 M/SEC AT 111M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
32.0	9	7.587E-10	3.414E-09	1600
34.0	0	4.215E-11	1.897E-10	1600
36.0	49	3.835E-09	1.726E-08	1600
38.0	489	3.768E-08	1.696E-07	1600
40.0	2239	1.723E-07	7.753E-07	1600
Q 42.0	5061	3.893E-07	1.752E-06	1600
Q 44.0	3910	3.008E-07	1.354E-06	1600
F 46.0	1408	1.044E-07	4.876E-07	1600
48.0	1348	1.038E-07	4.670E-07	1600
50.0	2770	2.131E-07	9.589E-07	1600
52.0	2375	1.828E-07	8.224E-07	1600
54.0	3758	2.891E-07	1.301E-06	1600
56.0	2976	2.290E-07	1.030E-06	1600
58.0	6877	5.290E-07	2.381E-06	1600
60.0	11426	8.790E-07	3.955E-06	1600
62.0	8838	6.709E-07	3.059E-06	1600
64.0	4142	3.186E-07	1.434E-06	1600
66.0	3308	2.545E-07	1.145E-06	1600
68.0	4101	3.155E-07	1.420E-06	1600
70.0	3736	2.874E-07	1.294E-06	1600
72.0	6200	4.770E-07	2.146E-06	1600
74.0	6679	5.138E-07	2.312E-06	1600
76.0	9725	7.441E-07	3.367E-06	1600
78.0	7812	6.010E-07	2.704E-06	1600
80.0	5125	3.943E-07	1.774E-06	1600
82.0	4418	3.399E-07	1.529E-06	1600
84.0	4211	3.239E-07	1.458E-06	1600
86.0	3467	2.668E-07	1.200E-06	1600
88.0	2900	2.231E-07	1.004E-06	1600
90.0	3204	2.465E-07	1.109E-06	1600
92.0	4243	3.264E-07	1.469E-06	1600
94.0	4947	3.837E-07	1.727E-06	1600
96.0	604	4.653E-08	2.094E-07	1600
98.0	115	8.893E-09	4.002E-08	1600

CROSSWIND INTEGRATED= 5.694E-04 2.562E-03
SEC/SQ.M 1/M

TEST U-37 NOVEMBER 11, 1964 1157 TO 1258 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
3200M ARC SAMPLER HT 1.5M U= 4.5 M/SEC AT 111M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
46.0	567	4.365E-08	1.964E-07	3200
47.0	1190	9.160E-08	4.122E-07	3200
T 48.0	348	2.837E-08	1.276E-07	3200
49.0	2488	2.222E-07	9.496E-07	3200
Q 50.0	2760	2.123E-07	9.555E-07	3200
Q 51.0	2741	2.109E-07	9.490E-07	3200
52.0	2161	1.663E-07	7.482E-07	3200
53.0	1199	9.229E-08	4.153E-07	3200
54.0	1225	9.429E-08	4.243E-07	3200
55.0	929	7.154E-08	3.219E-07	3200
56.0	674	5.191E-08	2.336E-07	3200
57.0	418	3.223E-08	1.450E-07	3200
58.0	446	3.432E-08	1.544E-07	3200
Q 59.0	4	3.448E-10	1.552E-09	3200
60.0	200	1.540E-08	6.931E-08	3200
61.0	293	2.255E-08	1.015E-07	3200
Q 62.0	785	6.046E-08	2.721E-07	3200
Q 63.0	935	7.195E-08	3.233E-07	3200
64.0	831	6.395E-08	2.878E-07	3200
65.0	679	5.227E-08	2.352E-07	3200
66.0	635	4.892E-08	2.201E-07	3200
67.0	845	6.501E-08	2.925E-07	3200
68.0	1056	8.128E-08	3.658E-07	3200
69.0	1260	9.698E-08	4.364E-07	3200
Q 70.0	1454	1.119E-07	5.036E-07	3200
Q 71.0	12	9.425E-10	4.241E-09	3200
72.0	1784	1.373E-07	6.177E-07	3200
73.0	1676	1.290E-07	5.804E-07	3200
74.0	1279	9.843E-08	4.429E-07	3200
75.0	1416	1.089E-07	4.902E-07	3200
Q 76.0	26	2.046E-09	9.206E-09	3200
77.0	1239	7.535E-08	4.291E-07	3200
78.0	1379	1.061E-07	4.774E-07	3200
79.0	1204	9.282E-08	4.168E-07	3200
80.0	1491	1.107E-07	5.162E-07	3200
81.0	1079	8.303E-08	3.736E-07	3200
82.0	1400	1.077E-07	4.846E-07	3200
83.0	1043	8.027E-08	3.612E-07	3200
84.0	1521	1.170E-07	5.265E-07	3200
85.0	1449	1.131E-07	5.088E-07	3200
Q 86.0	629	4.839E-08	2.177E-07	3200
87.0	1634	1.257E-07	5.657E-07	3200
88.0	1448	1.145E-07	5.154E-07	3200
Q 89.0	2272	1.788E-07	7.867E-07	3200
90.0	1617	1.244E-07	5.598E-07	3200
Q 91.0	1734	1.338E-07	6.020E-07	3200
Q 92.0	1384	1.065E-07	4.793E-07	3200
Q 93.0	150	1.154E-08	5.203E-08	3200
Q 94.0	100	7.724E-09	3.476E-08	3200
Q 95.0	98	7.540E-09	3.393E-08	3200
Q 96.0	47	3.632E-09	1.634E-08	3200
Q 97.0	27	2.115E-09	9.517E-09	3200
98.0	17	1.310E-09	5.896E-09	3200
Q 100.0	7	5.977E-10	2.690E-09	3200
Q 101.0	1	1.149E-10	5.172E-10	3200
102.0	6	4.827E-10	2.172E-09	3200

CROSSWIND INTEGRATED= 2.398E-04 1.074E-03
SEC/SQ.M 1/M

UNSTABLE SERIES EXPERIMENT: 38 (U-38)
GROUND LEVEL SAMPLING 100-1600 M ARCS.

TEST U-38 AUGUST 2, 1965 1050 TO 1104 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
100M ARC SAMPLER HT 1.5M U=10.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. ² X10E+6	F/Z SEC/CM. ²	F/U 1/SEC.	DISTANCE METERS
84.0	8	5.626E-02	5.908E-08	100
88.0	35	2.376E-02	2.494E-07	100
92.0	3090	2.060E-06	2.163E-05	100
96.0	14369	2.560E-06	1.006E-04	100
100.0	2919	6.626E-06	6.958E-05	100
104.0	4194	6.129E-06	6.435E-05	100
108.0	31241	2.083E-05	2.187E-04	100
112.0	23707	1.540E-05	1.660E-04	100
116.0	19841	9.448E-06	1.036E-04	100
120.0	5145	3.434E-06	3.602E-05	100

CROSSWIND INTEGRATED= 5.191E-04
SEC/90.0" 1/M

TEST U-38 AUGUST 2, 1965 1050 TO 1104 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U=10.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. ² X10E+6	F/Z SEC/CM. ²	F/U 1/SEC.	DISTANCE METERS
84.0	654	4.161E-07	4.562E-06	200
90.0	9158	6.106E-06	6.411E-05	200
94.0	42737	2.349E-05	2.492E-04	200
98.0	34913	2.461E-05	2.584E-04	200
102.0	43340	2.409E-05	2.534E-04	200
106.0	42995	2.466E-05	2.610E-04	200
110.0	40024	2.402E-05	2.492E-04	200
114.0	36074	2.432E-05	2.553E-04	200
118.0	26435	1.779E-05	1.868E-04	200
122.0	15326	1.026E-05	1.074E-04	200

CROSSWIND INTEGRATED= 2.759E-03
SEC/90.0" 1/M

TEST U-38 AUGUST 2, 1965 1050 TO 1104 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
300M ARC SAMPLER HT 1.5M U=10.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. ² X10E+6	F/Z SEC/CM. ²	F/U 1/SEC.	DISTANCE METERS
84.0	1341	8.284E-07	8.393E-06	300
92.0	9111	6.270E-06	6.374E-05	300
96.0	22304	1.987E-05	1.562E-04	300
100.0	28915	1.925E-05	2.020E-04	300
104.0	30260	2.017E-05	2.114E-04	300
P 108.0	4014	2.680E-06	2.410E-05	300
P 112.0	3230	2.156E-06	2.260E-05	300
P 116.0	2824	1.833E-06	1.977E-05	300
X 120.0	3240	2.160E-06	2.269E-05	300

CROSSWIND INTEGRATED= 1.470E-03
SEC/90.0" 1/M

TEST U-38 AUGUST 2, 1965 1050 TO 1104 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U=10.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. ² X10E+6	F/Z SEC/CM. ²	F/U 1/SEC.	DISTANCE METERS
78.0	7	5.001E-09	5.251E-08	400
82.0	9	6.251E-09	6.560E-08	400
86.0	121	8.127E-08	8.533E-07	400
90.0	940	6.270E-07	6.584E-06	400
C 94.0	769	5.126E-07	5.342E-06	400
C 98.0	2902	1.962E-06	2.060E-05	400
C 102.0	3671	2.447E-06	2.570E-05	400
C 106.0	1524	1.016E-06	1.067E-05	400
110.0	20283	1.362E-05	1.420E-04	400
114.0	9524	6.350E-06	6.667E-05	400
118.0	13650	9.100E-06	9.555E-05	400
122.0	5503	3.696E-06	3.881E-05	400

CROSSWIND INTEGRATED= 1.908E-03
SEC/90.0" 1/M

TEST U-38 AUGUST 2, 1965 1050 TO 1104 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
500M ARC SAMPLER HT 1.5M U=10.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. ² X10E+6	F/Z SEC/CM. ²	F/U 1/SEC.	DISTANCE METERS
C 88.0	157	1.050E-07	1.103E-06	500
92.0	1676	1.118E-06	1.174E-05	500
96.0	10109	6.767E-06	7.105E-05	500
100.0	13900	9.132E-06	9.799E-05	500
104.0	4097	5.302E-06	5.661E-05	500
108.0	13961	9.300E-06	9.773E-05	500
112.0	2307	1.567E-06	1.645E-05	500
116.0	7537	5.025E-06	5.276E-05	500
120.0	6870	4.583E-06	4.812E-05	500

CROSSWIND INTEGRATED= 1.508E-03
SEC/90.0" 1/M

TEST U-38 AUGUST 2, 1965 1050 TO 1104 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
600M ARC SAMPLER HT 1.5M U=10.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. ² X10E+6	F/Z SEC/CM. ²	F/U 1/SEC.	DISTANCE METERS
90.0	59	3.235E-08	3.135E-07	600
94.0	6142	4.005E-06	4.300E-05	600
98.0	11161	7.441E-06	7.813E-05	600
102.0	8963	5.976E-06	6.274E-05	600
106.0	6065	2.043E-06	2.246E-05	600
110.0	7778	5.146E-06	5.405E-05	600
P 114.0	6868	4.565E-06	4.790E-05	600
118.0	7478	2.986E-06	3.135E-05	600
122.0	235	1.560E-07	1.648E-06	600

CROSSWIND INTEGRATED= 1.445E-03
SEC/90.0" 1/M

TEST U-38 AUGUST 2, 1965 1050 TO 1100 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
700M ARC SAMPLER HT 1.5M U=10.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	FU/Z 1/SEC	DISTANCE METERS
88.0	547	3.651E-07	3.833E-06	700
92.0	776	5.176E-07	5.035E-06	700
96.0	4786	3.101E-06	3.350E-05	700
100.0	7761	5.178E-06	5.433E-05	700
104.0	5281	3.521E-06	3.697E-05	700
108.0	5099	3.393E-06	3.563E-05	700
112.0	6330	4.223E-06	4.434E-05	700
116.0	3778	2.510E-06	2.645E-05	700
120.0	523	3.948E-07	3.663E-06	700

CROSSWIND INTEGRATED= 1.134E-03 1.193E-02
SEC/SQ.M 1/M

TEST U-38 AUGUST 2, 1965 1050 TO 1100 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U=10.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	FU/Z 1/SEC	DISTANCE METERS
88.0	306	2.044E-07	2.104E-06	800
91.0	526	3.507E-07	3.682E-06	800
94.0	655	4.370E-07	4.588E-06	800
97.0	5905	3.337E-06	3.508E-05	800
W 100.0	7446	4.608E-06	4.933E-05	800
W 103.0	3555	3.044E-06	3.217E-05	800
W 106.0	3626	2.817E-06	2.538E-05	800
W 109.0	3594	2.306E-06	2.516E-05	800
112.0	5825	3.888E-06	4.078E-05	800
115.0	3861	2.530E-06	2.661E-05	800
118.0	1040	6.939E-07	7.286E-06	800
121.0	269	1.799E-07	1.884E-06	800

CROSSWIND INTEGRATED= 1.018E-03 1.064E-02
SEC/SQ.M 1/M

TEST U-38 AUGUST 2, 1965 1050 TO 1100 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1000M ARC SAMPLER HT 1.5M U=10.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	FU/Z 1/SEC	DISTANCE METERS
91.0	35	2.330E-08	2.455E-07	1000
93.0	1129	8.000E-07	8.400E-06	1000
95.0	1793	1.197E-06	1.256E-05	1000
97.0	2895	1.904E-06	1.999E-05	1000
99.0	4103	2.736E-06	2.872E-05	1000
101.0	2879	1.910E-06	2.015E-05	1000
103.0	1257	8.323E-07	8.802E-06	1000
105.0	936	6.203E-07	6.555E-06	1000
107.0	1504	1.056E-06	1.139E-05	1000
109.0	1189	7.930E-07	8.327E-06	1000
111.0	2453	1.636E-06	1.718E-05	1000
113.0	2177	1.452E-06	1.525E-05	1000
115.0	2035	1.357E-06	1.425E-05	1000
117.0	294	1.962E-07	2.060E-06	1000
119.0	306	2.066E-07	2.148E-06	1000

CROSSWIND INTEGRATED= 5.402E-04 6.134E-03
SEC/SQ.M 1/M

TEST U-38 AUGUST 2, 1965 1050 TO 1100 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U=10.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	FU/Z 1/SEC	DISTANCE METERS
90.0	4	4.393E-08	4.603E-08	1200
92.0	19	1.315E-07	1.381E-07	1200
94.0	181	1.213E-07	1.273E-06	1200
96.0	2095	1.337E-06	1.404E-05	1200
98.0	506	3.374E-07	3.544E-06	1200
100.0	1998	1.332E-06	1.399E-05	1200
102.0	390	2.608E-07	2.735E-06	1200
104.0	148	1.105E-07	1.181E-06	1200
106.0	227	1.520E-07	1.596E-06	1200
108.0	947	6.310E-07	6.635E-06	1200
110.0	919	6.129E-07	6.436E-06	1200
112.0	770	5.136E-07	5.393E-06	1200
114.0	803	5.355E-07	5.623E-06	1200
116.0	593	3.960E-07	4.158E-06	1200
118.0	69	4.639E-08	4.871E-07	1200
120.0	167	1.118E-07	1.174E-06	1200
122.0	7	5.110E-09	5.370E-08	1200

CROSSWIND INTEGRATED= 2.733E-04 2.870E-03
SEC/SQ.M 1/M

TEST U-38 AUGUST 2, 1965 1050 TO 1100 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U=10.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	FU/Z 1/SEC	DISTANCE METERS
Z 2.0	12	8.401E-09	8.821E-08	1600
Z 4.0	31	2.119E-08	2.225E-07	1600
Z 6.0	17	1.169E-08	1.227E-07	1600
Z 8.0	23	1.571E-08	1.649E-07	1600
Z 10.0	34	2.447E-08	2.570E-07	1600
Z 12.0	12	8.401E-09	8.821E-08	1600
Z 14.0	0	0.000E+00	0.000E+00	1600
Z 16.0	64	4.274E-08	4.487E-07	1600
T 18.0	56	3.792E-08	3.989E-07	1600
20.0	53	3.503E-08	3.720E-07	1600
Z 30.0	25	1.717E-08	1.803E-07	1600
Z 38.0	20	1.352E-08	1.419E-07	1600
Z 40.0	43	2.922E-08	3.068E-07	1600
Z 42.0	8	5.479E-09	5.753E-08	1600
Z 44.0	33	2.265E-08	2.378E-07	1600
72.0	13	9.132E-09	9.589E-08	1600
74.0	5	3.653E-09	3.835E-08	1600
76.0	0	0.000E+00	0.000E+00	1600
Z 78.0	14	9.463E-09	1.036E-07	1600
80.0	8	5.479E-09	5.753E-08	1600
82.0	0	3.288E-09	3.452E-08	1600
Z 84.0	0	3.653E-09	3.835E-08	1600
86.0	36	2.467E-08	2.570E-07	1600
88.0	8	5.479E-09	5.753E-08	1600
90.0	0	0.000E+00	0.000E+00	1600
Z 92.0	21	1.425E-08	1.496E-07	1600
Z 94.0	235	1.571E-07	1.649E-06	1600
96.0	1052	7.013E-07	7.364E-06	1600
Z 98.0	110	7.379E-08	7.708E-07	1600
Z 100.0	415	2.772E-07	2.911E-06	1600
Z 102.0	169	1.129E-07	1.185E-06	1600
Z 104.0	402	2.685E-07	2.819E-06	1600
Z 106.0	47	4.529E-08	4.756E-07	1600
Z 108.0	455	3.035E-07	3.187E-06	1600
Z 110.0	637	4.208E-07	4.461E-06	1600
Z 112.0	559	3.733E-07	3.920E-06	1600
Z 114.0	388	2.500E-07	2.719E-06	1600
Z 116.0	170	1.136E-07	1.193E-06	1600
Z 118.0	29	1.936E-08	2.033E-07	1600
Z 120.0	1	7.306E-10	7.671E-09	1600
Z 122.0	6	4.018E-09	4.219E-08	1600

CROSSWIND INTEGRATED= 2.167E-04 2.265E-03
SEC/SQ.M 1/M

UNSTABLE SERIES EXPERIMENT: 39 (U-39)
GROUND LEVEL SAMPLING 100-1500 M ARCS.

TEST U-39 AUGUST 12, 1945 0949 TO 1041 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
100M ARC SAMPLED HT 1.5M U= 4.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	F/U 1/90, M	DISTANCE METERS
4.0	11	6.902E-09	3.313E-08	100
8.0	10	5.412E-09	2.790E-08	100
12.0	2	1.453E-09	6.974E-09	100
16.0	13	7.628E-09	3.662E-08	100
20.0	34	2.167E-08	1.011E-07	100
24.0	28	1.635E-08	7.846E-08	100
28.0	47	2.724E-08	1.308E-07	100
32.0	24	1.417E-08	6.800E-08	100
36.0	37	2.140E-08	1.046E-07	100
40.0	69	4.032E-08	1.935E-07	100
44.0	82	4.759E-08	2.284E-07	100
48.0	222	1.232E-07	6.155E-07	100
52.0	65	3.778E-08	1.813E-07	100
56.0	81	4.686E-08	2.249E-07	100
60.0	182	1.053E-07	5.056E-07	100
64.0	161	9.299E-08	4.464E-07	100
68.0	293	1.173E-07	5.632E-07	100
72.0	197	1.137E-07	5.458E-07	100
76.0	208	1.202E-07	5.771E-07	100
80.0	377	2.140E-07	1.046E-06	100
84.0	316	1.827E-07	8.770E-07	100
88.0	237	1.373E-07	6.591E-07	100
92.0	334	1.929E-07	9.259E-07	100
96.0	358	2.071E-07	9.439E-07	100
100.0	185	1.072E-07	5.144E-07	100
104.0	294	1.700E-07	8.166E-07	100
108.0	138	7.992E-08	3.836E-07	100
112.0	159	9.100E-08	4.411E-07	100
116.0	256	1.482E-07	7.114E-07	100

CROSSWIND INTEGRATED= 1.804E-05 8.659E-05
SEC/90, M 1/M

TEST U-39 AUGUST 12, 1945 0949 TO 1041 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC SAMPLED HT 1.5M U= 4.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	F/U 1/90, M	DISTANCE METERS
W 2.0	5	3.269E-09	1.569E-08	200
W 6.0	15	8.718E-09	4.185E-08	200
W 10.0	16	9.848E-09	4.708E-08	200
14.0	11	6.902E-09	3.313E-08	200
18.0	25	1.469E-08	7.149E-08	200
22.0	32	1.853E-08	8.892E-08	200
26.0	37	2.140E-08	1.046E-07	200
30.0	89	5.158E-08	2.474E-07	200
34.0	61	3.524E-08	1.691E-07	200
38.0	107	6.175E-08	2.964E-07	200
42.0	150	8.934E-08	4.289E-07	200
46.0	152	8.827E-08	4.237E-07	200
50.0	169	9.771E-08	4.690E-07	200
54.0	217	1.253E-07	6.015E-07	200
58.0	219	1.268E-07	6.085E-07	200
62.0	304	1.907E-07	9.538E-07	200
66.0	406	2.575E-07	1.236E-06	200
70.0	367	2.121E-07	1.018E-06	200
74.0	292	1.649E-07	8.108E-07	200
78.0	317	1.831E-07	8.788E-07	200
82.0	398	2.299E-07	1.104E-06	200
86.0	278	1.609E-07	7.724E-07	200
90.0	191	1.104E-07	5.301E-07	200
94.0	176	1.021E-07	4.900E-07	200
98.0	105	6.103E-08	2.929E-07	200
102.0	227	1.311E-07	6.294E-07	200
106.0	113	6.575E-08	3.156E-07	200
110.0	78	4.504E-08	2.162E-07	200
114.0	37	2.180E-08	1.046E-07	200
118.0	87	5.049E-08	2.424E-07	200
122.0	40	2.325E-08	1.116E-07	200

CROSSWIND INTEGRATED= 3.845E-05 1.865E-04
SEC/90, M 1/M

TEST U-39 AUGUST 12, 1965 0949 TO 1001 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	F/U 1/SEC	DISTANCE METERS
12.0	6	3.635E-09	1.740E-08	300
16.0	1	1.000E-09	5.231E-09	300
20.0	7	4.350E-09	2.092E-08	300
24.0	24	1.417E-08	6.800E-08	300
28.0	110	6.303E-09	3.069E-07	300
32.0	114	6.720E-08	3.226E-07	300
36.0	116	6.720E-08	3.226E-07	300
40.0	111	6.330E-08	3.084E-07	300
44.0	151	8.700E-08	4.202E-07	300
48.0	203	1.173E-07	5.632E-07	300
52.0	151	8.700E-08	4.202E-07	300
56.0	256	1.402E-07	7.114E-07	300
60.0	268	1.551E-07	7.445E-07	300
64.0	220	1.275E-07	6.120E-07	300
68.0	233	1.348E-07	6.469E-07	300
72.0	508	2.931E-07	1.407E-06	300
76.0	335	1.934E-07	9.293E-07	300
80.0	256	1.478E-07	7.097E-07	300
84.0	103	5.957E-08	2.860E-07	300
88.0	125	7.229E-08	3.470E-07	300
92.0	74	4.246E-08	2.057E-07	300
96.0	84	5.006E-08	2.441E-07	300
100.0	98	5.667E-08	2.720E-07	300
104.0	117	6.756E-08	3.243E-07	300
108.0	100	5.812E-08	2.790E-07	300
112.0	81	4.686E-08	2.249E-07	300
116.0	52	3.051E-08	1.465E-07	300

CROSSWIND INTEGRATED= 5.059E-05 SEC/SEC
1/M

TEST U-39 AUGUST 12, 1965 0949 TO 1001 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	F/U 1/SEC	DISTANCE METERS
18.0	8	5.006E-09	2.401E-08	400
22.0	4	3.004E-09	1.418E-08	400
26.0	34	2.200E-09	1.090E-07	400
30.0	59	3.401E-09	1.656E-07	400
34.0	134	7.803E-09	3.784E-07	400
38.0	112	6.502E-08	3.121E-07	400
42.0	163	9.405E-08	4.533E-07	400
46.0	231	1.337E-07	6.416E-07	400
50.0	300	1.736E-07	8.334E-07	400
54.0	113	6.539E-08	3.139E-07	400
58.0	207	1.020E-07	6.852E-07	400
62.0	150	8.682E-08	4.167E-07	400
66.0	146	8.427E-08	4.005E-07	400
70.0	158	9.150E-08	4.394E-07	400
74.0	101	5.848E-08	2.807E-07	400
78.0	137	7.910E-08	3.801E-07	400
82.0	115	6.448E-08	3.191E-07	400
86.0	168	9.699E-08	4.655E-07	400
90.0	62	3.633E-08	1.744E-07	400
94.0	7	4.350E-09	2.092E-08	400
98.0	53	3.000E-08	1.402E-07	400
102.0	91	5.303E-08	2.546E-07	400
106.0	98	5.703E-08	2.737E-07	400
110.0	76	4.305E-08	2.110E-07	400
114.0	233	1.340E-07	6.409E-07	400
118.0	77	4.466E-08	2.145E-07	400
122.0	20	1.109E-08	5.754E-08	400

CROSSWIND INTEGRATED= 5.020E-05 SEC/SEC
1/M

TEST U-39 AUGUST 12, 1965 0949 TO 1001 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	F/U 1/SEC	DISTANCE METERS
20.0	5	3.269E-09	1.569E-08	500
24.0	16	2.405E-09	4.533E-08	500
28.0	47	2.761E-08	1.325E-07	500
32.0	261	1.507E-07	7.236E-07	500
36.0	201	1.602E-07	8.473E-07	500
40.0	324	2.307E-07	1.107E-06	500
44.0	519	3.000E-07	1.402E-06	500
48.0	706	4.079E-07	1.958E-06	500
52.0	249	1.402E-07	6.922E-07	500
56.0	494	2.802E-07	1.369E-06	500
60.0	296	1.711E-07	8.212E-07	500
64.0	183	1.057E-07	5.074E-07	500
68.0	123	7.120E-08	3.417E-07	500
72.0	193	1.115E-07	5.353E-07	500
76.0	86	5.013E-08	2.406E-07	500
80.0	42	4.705E-08	2.244E-07	500
84.0	1	7.265E-10	3.487E-09	500
88.0	35	2.071E-08	9.939E-08	500
92.0	45	2.652E-08	1.273E-07	500
96.0	66	3.800E-08	1.800E-07	500
100.0	33	1.925E-08	9.241E-08	500
104.0	37	2.103E-08	1.029E-07	500
108.0	54	3.233E-08	1.552E-07	500
112.0	56	2.966E-08	1.395E-07	500
116.0	25	1.489E-08	7.189E-08	500

CROSSWIND INTEGRATED= 8.480E-05 SEC/SEC
1/M

TEST U-39 AUGUST 12, 1965 0949 TO 1001 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	F/U 1/SEC	DISTANCE METERS
22.0	15	9.041E-09	4.350E-08	600
26.0	40	2.570E-08	1.238E-07	600
30.0	179	1.035E-07	4.464E-07	600
34.0	242	1.627E-07	7.811E-07	600
38.0	483	2.700E-07	1.339E-06	600
42.0	506	3.055E-07	1.468E-06	600
46.0	637	3.600E-07	1.764E-06	600
50.0	793	4.577E-07	2.197E-06	600
54.0	247	1.924E-07	8.852E-07	600
58.0	305	1.765E-07	8.074E-07	600
62.0	223	1.290E-07	6.190E-07	600
66.0	125	7.265E-08	3.487E-07	600
70.0	95	5.521E-08	2.650E-07	600
74.0	71	4.141E-08	1.988E-07	600
78.0	126	7.301E-08	3.505E-07	600
82.0	53	3.000E-08	1.402E-07	600
86.0	32	1.853E-08	8.892E-08	600
90.0	7	4.350E-09	2.092E-08	600
94.0	39	2.200E-09	1.090E-07	600
98.0	25	1.409E-08	7.149E-08	600
102.0	28	1.671E-09	8.021E-08	600
106.0	42	2.470E-09	1.186E-07	600
110.0	13	7.628E-09	3.662E-08	600
114.0	37	2.103E-08	1.029E-07	600
118.0	24	1.417E-09	6.800E-08	600
122.0	18	1.053E-09	5.056E-08	600

CROSSWIND INTEGRATED= 1.044E-04 SEC/SEC
1/M

TEST U-39 AUGUST 12, 1965 0949 TO 1041 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
700M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/P SEC/CU.M	F/U/O 1/SG.M	DISTANCE METERS
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20.0	7	4.350E-09	2.092E-08	700
24.0	21	1.235E-08	5.928E-08	700
28.0	129	7.443E-08	3.592E-07	700
32.0	574	3.324E-07	1.595E-06	700
36.0	851	4.911E-07	2.357E-06	700
40.0	627	3.622E-07	1.738E-06	700
44.0	1700	9.815E-07	4.711E-06	700
48.0	1906	1.123E-06	5.391E-06	700
52.0	855	4.937E-07	2.370E-06	700
56.0	855	4.937E-07	2.370E-06	700
60.0	191	5.848E-08	2.807E-07	700
C 64.0	32	1.853E-08	8.892E-08	700
68.0	45	2.652E-08	1.273E-07	700
72.0	0	0.000E+00	0.000E+00	700
76.0	59	3.451E-08	1.656E-07	700
80.0	30	1.744E-08	8.369E-08	700
84.0	24	1.417E-08	6.800E-08	700
88.0	25	1.499E-08	7.149E-08	700
92.0	26	1.526E-08	7.323E-08	700
96.0	60	3.487E-08	1.674E-07	700
100.0	15	9.718E-09	4.185E-08	700
104.0	40	2.361E-08	1.133E-07	700
108.0	56	3.269E-08	1.569E-07	700
112.0	43	2.596E-08	1.293E-07	700
116.0	5	3.269E-08	1.569E-08	700
120.0	5	3.269E-08	1.569E-08	700

CROSSWIND INTEGRATED= 2.297E-04 SEC/SG.M
1/M

TEST U-39 AUGUST 12, 1965 0949 TO 1041 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/P SEC/CU.M	F/U/O 1/SG.M	DISTANCE METERS
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26.0	3	1.966E-09	9.148E-09	1200
28.0	15	9.053E-09	4.345E-08	1200
30.0	63	3.649E-08	1.761E-07	1200
32.0	298	1.722E-07	8.268E-07	1200
34.0	168	9.696E-08	4.454E-07	1200
36.0	339	1.958E-07	9.400E-07	1200
38.0	293	1.694E-07	8.131E-07	1200
40.0	305	1.741E-07	8.451E-07	1200
42.0	370	2.137E-07	1.028E-06	1200
44.0	298	1.720E-07	8.256E-07	1200
46.0	488	2.816E-07	1.352E-06	1200
48.0	706	4.605E-07	2.210E-06	1200
50.0	357	2.061E-07	9.892E-07	1200
52.0	357	2.063E-07	9.903E-07	1200
54.0	146	8.481E-08	4.071E-07	1200
56.0	168	9.720E-08	4.666E-07	1200
58.0	184	1.067E-07	5.123E-07	1200
60.0	91	5.265E-08	2.527E-07	1200
62.0	37	2.192E-08	1.052E-07	1200
64.0	53	1.073E-08	1.475E-07	1200
66.0	50	2.906E-08	1.395E-07	1200
68.0	28	1.668E-08	8.005E-08	1200
70.0	21	1.239E-08	5.986E-08	1200
72.0	9	5.281E-09	2.516E-08	1200
74.0	17	1.001E-08	4.803E-08	1200
76.0	5	3.335E-09	1.601E-08	1200
78.0	18	8.338E-09	4.002E-08	1200
80.0	4	2.382E-09	1.144E-08	1200
82.0	0	2.382E-09	1.144E-08	1200
84.0	2	1.191E-09	5.718E-09	1200
86.0	0	0.000E+00	0.000E+00	1200
88.0	4	2.859E-09	1.372E-08	1200
90.0	3	2.144E-09	1.029E-08	1200
92.0	3	1.966E-09	9.148E-09	1200
94.0	5	3.097E-09	1.487E-08	1200

CROSSWIND INTEGRATED= 1.711E-04 SEC/SG.M
1/M

TEST U-39 AUGUST 12, 1965 0949 TO 1041 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/P SEC/CU.M	F/U/O 1/SG.M	DISTANCE METERS
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26.0	2	1.191E-09	5.718E-09	1600
28.0	26	1.525E-08	7.319E-08	1600
30.0	94	5.456E-08	2.619E-07	1600
32.0	20	5.456E-08	2.619E-07	1600
34.0	273	1.577E-07	7.570E-07	1600
36.0	240	1.309E-07	6.467E-07	1600
38.0	262	1.514E-07	7.284E-07	1600
40.0	338	1.951E-07	9.366E-07	1600
42.0	629	3.633E-07	1.788E-06	1600
44.0	724	4.183E-07	2.008E-06	1600
46.0	838	3.673E-07	1.768E-06	1600
48.0	889	5.132E-07	2.463E-06	1600
50.0	618	3.569E-07	1.713E-06	1600
52.0	471	2.723E-07	1.307E-06	1600
54.0	286	1.653E-07	7.936E-07	1600
56.0	276	1.367E-07	6.564E-07	1600
58.0	163	9.458E-08	4.580E-07	1600
60.0	135	7.790E-08	3.739E-07	1600
62.0	118	6.861E-08	3.293E-07	1600
64.0	29	5.747E-08	2.756E-07	1600
66.0	67	1.907E-08	1.875E-07	1600
68.0	22	1.286E-08	6.175E-08	1600
70.0	76	2.096E-08	1.006E-07	1600
72.0	14	8.100E-09	3.888E-08	1600
74.0	0	2.859E-09	1.372E-08	1600

CROSSWIND INTEGRATED= 2.092E-04 SEC/SG.M
1/M

UNSTABLE SERIES EXPERIMENT: 40 (U-40)
GROUND LEVEL SAMPLING 100-3200 M ARCS.

TEST U-40 SEPTEMBER 14, 1965 1131 TO 1220 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
100M ARC SAMPLER HT 1.5M U=11.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/W SEC/CM ²	E/W 1/SEC	DISTANCE METERS
24.0	6	3.114E-09	3.675E-08	100
28.0	0	0.000E+00	0.000E+00	100
32.0	3	1.730E-09	2.041E-08	100
36.0	7	3.806E-09	4.491E-08	100
40.0	2	1.078E-09	1.225E-08	100
44.0	94	4.706E-08	5.553E-07	100
48.0	51	2.595E-08	3.062E-07	100
52.0	26	1.349E-08	1.592E-07	100
56.0	17	8.996E-09	1.062E-07	100
60.0	13	6.920E-09	8.166E-08	100
64.0	19	9.688E-09	1.143E-07	100
68.0	33	1.661E-08	1.960E-07	100
72.0	26	1.349E-08	1.592E-07	100
76.0	20	1.093E-08	1.184E-07	100
80.0	3	1.730E-09	2.041E-08	100
84.0	20	1.036E-08	1.225E-07	100
88.0	2	1.038E-09	1.225E-08	100
92.0	11	5.536E-09	6.533E-08	100
96.0	13	6.920E-09	8.166E-08	100
100.0	15	7.612E-09	9.082E-08	100
104.0	8	4.498E-09	5.308E-08	100
108.0	14	7.266E-09	8.574E-08	100
112.0	17	8.650E-09	1.021E-07	100
116.0	8	4.498E-09	5.308E-08	100
120.0	8	4.498E-09	5.308E-08	100

CROSSWIND INTEGRATED= 1.56PE-06 1.850E-05
SEC/SM² 1/M

TEST U-40 SEPTEMBER 14, 1965 1131 TO 1220 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC SAMPLER HT 1.5M U=11.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/W SEC/CM ²	E/W 1/SEC	DISTANCE METERS
42.0	6	3.114E-09	3.675E-08	200
46.0	11	5.536E-09	6.533E-08	200
50.0	29	1.453E-08	1.715E-07	200
54.0	14	7.266E-09	8.574E-08	200
58.0	13	6.920E-09	8.166E-08	200
62.0	13	6.574E-09	7.758E-08	200
66.0	16	8.304E-09	9.799E-08	200
70.0	2	1.349E-08	1.633E-08	200
74.0	15	7.958E-09	9.391E-08	200
78.0	14	7.266E-09	8.574E-08	200
82.0	33	1.661E-08	1.960E-07	200
86.0	40	2.007E-08	2.368E-07	200
90.0	36	1.894E-08	2.164E-07	200
94.0	26	1.315E-08	1.552E-07	200
98.0	16	8.304E-09	9.799E-08	200
102.0	19	9.688E-09	1.143E-07	200
122.0	7	3.806E-09	4.491E-08	200

CROSSWIND INTEGRATED= 2.594E-06 3.061E-05
SEC/SM² 1/M

TEST U-40 SEPTEMBER 14, 1965 1131 TO 1220 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
300M ARC SAMPLER HT 1.5M U=11.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/W SEC/CM ²	E/W 1/SEC	DISTANCE METERS
P 36.0	11	5.536E-09	6.533E-08	300
40.0	42	2.111E-08	2.491E-07	300
44.0	11	5.536E-09	6.533E-08	300
48.0	69	3.445E-08	4.124E-07	300
52.0	73	3.688E-08	4.328E-07	300
56.0	57	2.872E-08	3.382E-07	300
60.0	66	3.322E-08	3.920E-07	300
64.0	8	4.152E-09	4.960E-08	300
68.0	15	7.958E-09	9.391E-08	300
72.0	22	1.142E-08	1.347E-07	300
76.0	15	7.958E-09	9.391E-08	300
80.0	22	1.142E-08	1.347E-07	300
84.0	31	1.557E-08	1.837E-07	300
88.0	13	6.920E-09	8.166E-08	300
92.0	11	5.882E-09	6.941E-08	300

CROSSWIND INTEGRATED= 4.969E-06 5.450E-05
SEC/SM² 1/M

TEST U-40 SEPTEMBER 14, 1965 1131 TO 1220 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U=11.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/W SEC/CM ²	E/W 1/SEC	DISTANCE METERS
18.0	11	5.536E-09	6.533E-08	400
22.0	9	0.000E+00	0.000E+00	400
26.0	21	1.073E-08	1.266E-07	400
30.0	10	5.190E-09	6.124E-08	400
34.0	7	3.806E-09	4.491E-08	400
38.0	4	4.844E-09	5.716E-08	400
42.0	56	2.803E-08	3.307E-07	400
46.0	251	1.256E-07	1.482E-06	400
50.0	596	2.983E-07	3.519E-06	400
54.0	597	2.990E-07	3.528E-06	400
58.0	398	1.543E-07	1.821E-06	400
62.0	35	1.765E-08	2.082E-07	400
66.0	5	2.768E-09	3.266E-08	400
70.0	13	6.574E-09	7.758E-08	400
74.0	19	9.688E-09	1.143E-07	400
78.0	16	8.304E-09	9.799E-08	400
82.0	19	9.688E-09	1.143E-07	400
86.0	11	5.536E-09	6.533E-08	400
90.0	22	1.142E-08	1.347E-07	400
94.0	6	3.460E-09	4.083E-08	400

CROSSWIND INTEGRATED= 2.821E-05 3.329E-04
SEC/SM² 1/M

TEST U-40 SEPTEMBER 14, 1965 1131 TO 1220 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
500M ARC SAMPLER HT 1.5M U=11.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	F/U 1/SEC	DISTANCE METERS
32.0	6	3.114E-09	3.675E-08	500
36.0	8	4.494E-09	5.308E-08	500
40.0	53	2.699E-08	3.185E-07	500
44.0	645	3.228E-07	3.809E-06	500
48.0	1139	6.000E-07	7.040E-06	500
52.0	1091	5.457E-07	6.439E-06	500
56.0	963	4.820E-07	5.688E-06	500
60.0	279	1.394E-07	1.645E-06	500
64.0	42	2.145E-08	2.531E-07	500

CROSSWIND INTEGRATED= 7.491E-05 SEC/30.M
1/M

EST U-40 SEPTEMBER 14, 1965 1131 TO 1220 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLER HT 1.5M U=11.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	F/U 1/SEC	DISTANCE METERS
38.0	87	4.398E-08	5.185E-07	600
42.0	901	2.007E-07	2.368E-06	600
46.0	2002	1.003E-06	1.181E-05	600
50.0	1754	8.775E-07	1.035E-05	600
54.0	2247	1.124E-06	1.326E-05	600
58.0	1092	5.010E-07	5.912E-06	600
62.0	429	2.149E-07	2.536E-06	600
66.0	74	3.737E-08	4.410E-07	600
70.0	18	7.266E-09	8.574E-08	600
74.0	8	4.494E-09	5.308E-08	600
78.0	9	4.844E-09	5.716E-08	600

CROSSWIND INTEGRATED= 1.683E-04 SEC/30.M
1/M

TEST U-40 SEPTEMBER 14, 1965 1131 TO 1220 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
700M ARC SAMPLER HT 1.5M U=11.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	F/U 1/SEC	DISTANCE METERS
40.0	96	4.844E-08	5.716E-07	700
44.0	1667	8.335E-07	9.836E-06	700
48.0	1452	2.026E-06	2.391E-05	700
52.0	2852	1.424E-06	1.683E-05	700
56.0	2333	1.167E-06	1.377E-05	700
P 60.0	143	7.162E-08	8.452E-07	700
P 64.0	37	1.868E-08	2.205E-07	700
P 68.0	9	4.844E-09	5.716E-08	700

CROSSWIND INTEGRATED= 2.735E-04 SEC/30.M
1/M

TEST U-40 SEPTEMBER 14, 1965 1131 TO 1220 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U=11.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	F/U 1/SEC	DISTANCE METERS
40.0	140	7.024E-08	8.286E-07	800
43.0	1312	6.564E-07	7.745E-06	800
46.0	3994	1.547E-06	1.825E-05	800
49.0	3552	1.776E-06	2.094E-05	800
52.0	3169	1.585E-06	1.870E-05	800
55.0	2930	1.465E-06	1.729E-05	800
58.0	2066	1.033E-06	1.219E-05	800
61.0	397	1.997E-07	2.344E-06	800
64.0	52	2.942E-07	3.495E-06	800
67.0	57	2.872E-07	3.389E-06	800

CROSSWIND INTEGRATED= 3.626E-04 SEC/30.M
1/M

TEST U-40 SEPTEMBER 14, 1965 1131 TO 1220 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U=11.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	F/U 1/SEC	DISTANCE METERS
40.0	76	3.813E-08	4.499E-07	1200
42.0	332	1.664E-07	1.963E-06	1200
44.0	994	4.924E-07	5.810E-06	1200
46.0	1480	7.401E-07	8.733E-06	1200
48.0	1359	6.797E-07	8.026E-06	1200
50.0	884	4.324E-07	5.102E-06	1200
52.0	1057	5.245E-07	6.236E-06	1200
54.0	1172	5.860E-07	6.915E-06	1200
56.0	1164	5.825E-07	6.873E-06	1200
58.0	707	3.535E-07	4.171E-06	1200
60.0	647	3.037E-07	3.584E-06	1200
62.0	403	2.017E-07	2.380E-06	1200
64.0	66	3.328E-08	3.427E-07	1200
66.0	15	7.934E-09	9.362E-08	1200

CROSSWIND INTEGRATED= 2.156E-04 SEC/30.M
1/M

TEST U-40 SEPTEMBER 14, 1965 1131 TO 1220 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ALC SAMPLER HT 1.4M W=11.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	F/Z/D 1/SEC.M	DISTANCE METERS
40.0	60	3.019E-08	3.563E-07	1600
42.0	436	2.193E-07	2.588E-06	1600
44.0	1205	6.026E-07	7.110E-06	1600
46.0	1861	9.307E-07	1.098E-05	1600
48.0	1694	9.472E-07	1.118E-05	1600
50.0	1674	8.371E-07	9.877E-06	1600
52.0	1425	7.125E-07	8.408E-06	1600
54.0	1330	6.491E-07	7.896E-06	1600
56.0	1697	8.036E-07	9.452E-06	1600
58.0	1235	6.175E-07	7.287E-06	1600
60.0	1145	5.728E-07	6.759E-06	1600
62.0	335	1.677E-07	1.979E-06	1600
64.0	16	8.155E-09	9.622E-08	1600

CROSSWIND INTEGRATED= 3.976E-04 4.691E-03
SEC/SQ.M 1/M

TEST U-40 SEPTEMBER 14, 1965 1131 TO 1220 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
3200M ALC SAMPLER HT 1.4M W=11.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	F/Z/D 1/SEC.M	DISTANCE METERS
F 50.0	70	3.522E-08	4.154E-07	3200
F 51.0	14	9.734E-09	1.149E-07	3200
52.0	217	1.087E-07	1.283E-06	3200
53.0	183	9.146E-08	1.085E-06	3200
54.0	226	1.131E-07	1.334E-06	3200
F 55.0	72	3.637E-08	4.292E-07	3200
56.0	29	1.486E-08	1.753E-07	3200
57.0	175	8.799E-08	1.038E-06	3200
58.0	134	6.737E-08	7.949E-07	3200
59.0	117	5.802E-08	6.952E-07	3200
F 60.0	26	1.332E-08	1.572E-07	3200
F 61.0	21	1.059E-08	1.239E-07	3200
62.0	8	2.562E-10	3.023E-09	3200
63.0	5	1.793E-09	2.116E-08	3200
64.0	4	2.177E-09	2.464E-08	3200

CROSSWIND INTEGRATED= 3.643E-05 4.294E-04
SEC/SQ.M 1/M

UNSTABLE SERIES EXPERIMENT: 41 (U-41)
GROUND LEVEL SAMPLING 100-1600 M ARCS. FOR EASE IN STATISTICAL
ANALYSIS, ALL SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES
FROM THEIR ACTUAL POSITIONS.

TEST U-41 OCTOBER 5, 1965 1118 TO 1146 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
100M ARC SAMPLER HT 1.5M W= 8.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	EU/D 1/30.M	DISTANCE METERS
58.0	47	9.512E-08	8.371E-07	100
62.0	957	1.931E-06	1.699E-05	100
66.0	354	7.181E-07	6.319E-06	100
70.0	78	1.581E-07	1.391E-06	100
74.0	231	4.676E-07	4.115E-06	100
78.0	1787	3.604E-06	3.171E-05	100
82.0	172	3.470E-07	3.054E-06	100
86.0	261	5.265E-07	4.633E-06	100
90.0	270	5.453E-07	4.798E-06	100
94.0	554	1.119E-06	9.840E-06	100
98.0	7	1.608E-08	1.415E-07	100
102.0	10	2.104E-08	1.806E-07	100
106.0	6	1.340E-08	1.179E-07	100
110.0	9	1.874E-08	1.651E-07	100
114.0	4	9.378E-09	8.253E-08	100
118.0	1	4.019E-09	3.537E-08	100
122.0	15	3.215E-08	2.830E-07	100
126.0	15	3.081E-08	2.712E-07	100
130.0	10	2.144E-08	1.896E-07	100
134.0	22	4.555E-08	4.008E-07	100
138.0	7	1.474E-08	1.297E-07	100
142.0	8	1.747E-08	1.533E-07	100
146.0	35	7.101E-08	6.249E-07	100
150.0	28	5.761E-08	5.070E-07	100

CROSSWIND INTEGRATED= 6.901E-05 SEC/30.M
1/M

TEST U-41 OCTOBER 5, 1965 1118 TO 1146 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M W= 8.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	EU/D 1/30.M	DISTANCE METERS
16.0	24	4.957E-08	4.362E-07	200
20.0	2	5.359E-09	4.716E-08	200
24.0	17	3.483E-08	3.065E-07	200
28.0	23	4.823E-08	4.244E-07	200
32.0	0	0.000E+00	0.000E+00	200
36.0	7	1.474E-08	1.297E-07	200
40.0	14	2.947E-08	2.594E-07	200
44.0	38	7.770E-08	6.838E-07	200
48.0	78	5.761E-08	5.070E-07	200
52.0	46	1.340E-07	1.179E-06	200
56.0	198	3.992E-07	3.513E-06	200
60.0	750	1.513E-06	1.331E-05	200
64.0	1222	2.465E-06	2.169E-05	200
68.0	1917	3.866E-06	3.402E-05	200
72.0	1390	2.804E-06	2.468E-05	200
76.0	2268	4.574E-06	4.025E-05	200
80.0	1921	3.875E-06	3.410E-05	200
84.0	800	1.614E-06	1.421E-05	200
88.0	656	1.324E-06	1.165E-05	200
92.0	261	5.279E-07	4.645E-06	200
96.0	124	2.519E-07	2.216E-06	200
100.0	19	3.885E-08	3.419E-07	200
104.0	13	2.813E-08	2.476E-07	200
108.0	35	7.235E-08	6.366E-07	200
112.0	17	3.617E-08	3.183E-07	200
116.0	53	1.085E-07	9.550E-07	200
120.0	13	2.679E-08	2.358E-07	200
124.0	10	2.104E-08	1.886E-07	200
128.0	6	1.340E-08	1.179E-07	200
132.0	47	9.512E-08	8.371E-07	200
136.0	7	1.608E-08	1.415E-07	200
140.0	7	1.474E-08	1.297E-07	200
144.0	5	1.072E-08	9.432E-08	200
148.0	6	1.340E-08	1.179E-07	200
152.0	7	1.474E-08	1.297E-07	200

CROSSWIND INTEGRATED= 3.376E-04 SEC/30.M
1/M

TEST U-41 OCTOBER 5, 1965 1118 TO 1146 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
300M ARC SAMPLER HT 1.5M U= 8.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SG.M	DISTANCE METERS
54.0	13	2.813E-08	2.476E-07	300
C 58.0	16	3.309E-08	2.987E-07	300
C 62.0	408	9.043E-07	7.958E-06	300
C 66.0	1355	2.733E-06	2.405E-05	300
C 70.0	1136	2.291E-06	2.016E-05	300
74.0	3311	6.676E-06	5.875E-05	300
78.0	2374	4.788E-06	4.214E-05	300
82.0	1897	3.826E-06	3.367E-05	300
86.0	930	1.876E-06	1.651E-05	300
90.0	342	6.900E-07	6.072E-06	300
94.0	181	3.657E-07	3.219E-06	300
98.0	39	7.904E-08	6.956E-07	300
102.0	27	5.493E-08	4.834E-07	300
106.0	10	2.144E-08	1.886E-07	300
110.0	4	9.378E-09	8.253E-08	300
114.0	3	8.038E-09	7.074E-08	300
118.0	19	3.885E-08	3.419E-07	300
122.0	2	5.359E-09	4.716E-08	300
126.0	13	2.679E-08	2.358E-07	300
130.0	7	1.474E-08	1.297E-07	300

CROSSWIND INTEGRATED= 5.125E-04 SEC/SG.M 4.510E-03 1/M

TEST U-41 OCTOBER 5, 1965 1118 TO 1146 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 8.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SG.M	DISTANCE METERS
56.0	23	4.823E-08	4.244E-07	400
60.0	172	3.483E-07	3.065E-06	400
64.0	1160	2.341E-06	2.060E-05	400
68.0	2027	4.088E-06	3.597E-05	400
72.0	2000	4.033E-06	3.509E-05	400
76.0	1995	4.023E-06	3.500E-05	400
80.0	1730	3.489E-06	3.070E-05	400
84.0	982	1.981E-06	1.744E-05	400
88.0	640	1.292E-06	1.137E-05	400
92.0	136	2.760E-07	2.429E-06	400
96.0	50	1.018E-07	8.960E-07	400
100.0	69	1.393E-07	1.226E-06	400
104.0	8	1.742E-08	1.533E-07	400
108.0	4	9.378E-09	8.253E-08	400
112.0	5	1.206E-08	1.061E-07	400

CROSSWIND INTEGRATED= 6.199E-04 SEC/SG.M 5.455E-03 1/M

TEST U-41 OCTOBER 5, 1965 1118 TO 1146 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
500M ARC SAMPLER HT 1.5M U= 8.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SG.M	DISTANCE METERS
54.0	15	3.215E-08	2.830E-07	500
58.0	176	3.564E-07	3.136E-06	500
62.0	263	5.305E-07	4.669E-06	500
66.0	1693	3.410E-06	3.004E-05	500
70.0	1310	2.642E-06	2.325E-05	500
74.0	1960	3.954E-06	3.879E-05	500
78.0	1281	2.584E-06	2.274E-05	500
82.0	1224	2.464E-06	2.172E-05	500
86.0	684	1.380E-06	1.214E-05	500
90.0	219	4.435E-07	3.902E-06	500
94.0	122	2.079E-07	2.181E-06	500
98.0	158	3.189E-07	2.806E-06	500
102.0	11	2.278E-08	2.004E-07	500

CROSSWIND INTEGRATED= 6.420E-04 SEC/SG.M 5.650E-03 1/M

TEST U-41 OCTOBER 5, 1965 1118 TO 1146 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
600M ARC SAMPLER HT 1.5M U= 8.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SG.M	DISTANCE METERS
56.0	31	6.431E-08	5.659E-07	600
60.0	114	2.318E-07	2.040E-06	600
64.0	459	9.271E-07	8.158E-06	600
68.0	1617	3.261E-06	2.870E-05	600
72.0	994	2.004E-06	1.764E-05	600
76.0	1034	2.086E-06	1.836E-05	600
80.0	680	1.372E-06	1.207E-05	600
84.0	610	1.230E-06	1.082E-05	600
88.0	518	1.046E-06	9.208E-06	600
92.0	134	2.720E-07	2.393E-06	600
96.0	149	3.014E-07	2.653E-06	600
100.0	23	4.823E-08	4.244E-07	600
104.0	7	1.608E-08	1.415E-07	600
108.0	7	1.474E-08	1.297E-07	600

CROSSWIND INTEGRATED= 5.393E-04 SEC/SG.M 4.786E-03 1/M

TEST U-41 OCTOBER 5, 1965 111A TO 114A PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
700M ARC SAMPLER HT 1.5M U= 8.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
50.0	21	4.421E-08	3.891E-07	700
54.0	18	3.751E-08	3.301E-07	700
58.0	41	8.306E-08	7.310E-07	700
62.0	243	4.903E-07	4.315E-06	700
66.0	661	1.330E-06	1.174E-05	700
70.0	550	1.109E-06	9.762E-06	700
74.0	1053	2.123E-06	1.869E-05	700
78.0	653	1.318E-06	1.160E-05	700
82.0	255	5.145E-07	4.527E-06	700
86.0	583	1.176E-06	1.035E-05	700
90.0	223	4.502E-07	3.961E-06	700
94.0	201	4.059E-07	3.572E-06	700
98.0	33	6.833E-08	6.013E-07	700
102.0	5	1.206E-08	1.061E-07	700
106.0	79	1.608E-07	1.415E-06	700
110.0	10	2.144E-08	1.886E-07	700

CROSSWIND INTEGRATED= 4.569E-04 SEC/SQ.M
4.021E-03 1/M

TEST U-41 OCTOBER 5, 1965 111A TO 114A PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
700M ARC SAMPLER HT 1.5M U= 8.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
46.0	18	3.751E-08	3.301E-07	800
50.0	7	1.470E-08	1.297E-07	800
54.0	21	4.421E-08	3.891E-07	800
58.0	160	3.242E-07	2.853E-06	800
62.0	138	3.992E-07	3.513E-06	800
66.0	438	1.842E-06	1.641E-05	800
70.0	750	1.514E-06	1.332E-05	800
74.0	812	1.637E-06	1.441E-05	800
78.0	861	1.738E-06	1.528E-05	800
82.0	552	1.113E-06	9.797E-06	800
86.0	400	1.159E-06	1.035E-05	800
90.0	503	1.014E-06	8.925E-06	800
94.0	279	5.627E-07	4.952E-06	800
98.0	102	2.077E-07	1.827E-06	800
102.0	112	2.278E-07	2.004E-06	800
106.0	97	1.956E-07	1.721E-06	800
110.0	27	5.627E-08	4.952E-07	800
114.0	11	2.278E-08	2.004E-07	800
118.0	12	2.545E-08	2.240E-07	800
122.0	13	2.679E-08	2.358E-07	800
126.0	21	4.421E-08	3.891E-07	800
130.0	11	2.412E-08	2.122E-07	800
134.0	7	1.474E-08	1.297E-07	800
138.0	29	5.895E-08	5.187E-07	800

CROSSWIND INTEGRATED= 4.661E-04 SEC/SQ.M
4.102E-03 1/M

TEST U-41 OCTOBER 5, 1965 111A TO 114A PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 8.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
56.0	13	2.679E-08	2.357E-07	1200
58.0	11	2.333E-08	2.053E-07	1200
60.0	31	6.398E-08	5.627E-07	1200
62.0	64	1.296E-07	1.141E-06	1200
64.0	29	5.962E-08	5.247E-07	1200
66.0	91	1.809E-07	1.627E-06	1200
68.0	59	1.201E-07	1.057E-06	1200
70.0	145	2.938E-07	2.585E-06	1200
72.0	171	3.048E-07	3.034E-06	1200
74.0	150	3.024E-07	2.661E-06	1200
76.0	78	1.573E-07	1.384E-06	1200
78.0	85	1.728E-07	1.521E-06	1200
80.0	112	2.273E-07	2.000E-06	1200
82.0	173	3.491E-07	3.072E-06	1200
84.0	133	2.696E-07	2.372E-06	1200
86.0	149	3.016E-07	2.654E-06	1200
88.0	62	1.262E-07	1.110E-06	1200
90.0	19	3.888E-08	3.422E-07	1200
92.0	38	7.691E-08	6.768E-07	1200
94.0	15	3.197E-08	2.814E-07	1200

CROSSWIND INTEGRATED= 1.383E-04 SEC/SQ.M
1.217E-03 1/M

TEST U-41 OCTOBER 5, 1965 1118 TO 1146 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
 1600M ARC SAMPLER AT 1.5M U= 8.0 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/N SEC/CU.M	FU/N 1/SEC	DISTANCE METERS
30.0	15	3.111E-08	2.737E-07	1600
32.0	24	4.839E-08	4.258E-07	1600
34.0	7	1.555E-08	1.369E-07	1600
36.0	13	2.765E-08	2.433E-07	1600
38.0	10	2.160E-08	1.901E-07	1600
40.0	1	2.592E-09	2.281E-08	1600
42.0	15	3.111E-08	2.737E-07	1600
44.0	5	1.937E-08	9.125E-08	1600
46.0	9	1.815E-08	1.597E-07	1600
48.0	47	2.592E-08	6.441E-07	1600
50.0	5	1.123E-08	9.885E-08	1600
52.0	17	3.456E-08	3.042E-07	1600
54.0	9	1.815E-08	1.597E-07	1600
56.0	0	0.000E+00	0.000E+00	1600
58.0	18	3.716E-08	3.270E-07	1600
60.0	46	9.419E-08	8.288E-07	1600
62.0	69	1.391E-07	1.224E-06	1600
64.0	84	1.694E-07	1.490E-06	1600
66.0	71	1.403E-07	1.270E-06	1600
68.0	73	1.478E-07	1.300E-06	1600
70.0	180	3.647E-07	3.209E-06	1600
72.0	272	5.496E-07	4.836E-06	1600
74.0	295	4.951E-07	4.357E-06	1600
76.0	204	4.130E-07	3.635E-06	1600
78.0	211	4.260E-07	3.749E-06	1600
80.0	91	1.849E-07	1.627E-06	1600
82.0	141	3.258E-07	2.867E-06	1600
84.0	134	2.705E-07	2.380E-06	1600
86.0	107	2.160E-07	1.901E-06	1600
88.0	71	1.434E-07	1.262E-06	1600
90.0	26	5.271E-08	4.639E-07	1600
92.0	16	3.288E-08	2.890E-07	1600
94.0	12	2.592E-08	2.281E-07	1600
96.0	4	9.505E-09	8.364E-08	1600
98.0	6	1.296E-08	1.141E-07	1600
100.0	10	2.074E-08	1.825E-07	1600
102.0	8	1.728E-08	1.521E-07	1600
104.0	10	2.160E-08	1.901E-07	1600
106.0	5	1.123E-08	9.885E-08	1600
108.0	3	6.213E-09	6.083E-08	1600
110.0	5	1.037E-08	9.125E-08	1600
112.0	5	1.123E-08	9.885E-08	1600

CROSSWIND INTERGRATE = 2.636E-08 2.320E-03
 SEC/SEC 1/M

UNSTABLE SERIES EXPERIMENT: 42 (U-42)
GROUND LEVEL SAMPLING 400-3200 M ARCS.

TEST U-42 NOVEMBER 4, 1965 1140 TO 1235 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 9.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	F/ZC 1/SEC	DISTANCE METERS
46.0	52	2.191E-08	2.164E-07	400
50.0	456	1.908E-07	1.831E-06	400
54.0	293	1.228E-07	1.175E-06	400
58.0	594	4.176E-07	4.009E-06	400
62.0	207	1.374E-07	3.279E-06	400
66.0	765	3.244E-07	3.072E-06	400
70.0	494	2.070E-07	1.945E-06	400
74.0	154	6.445E-08	1.187E-07	400
78.0	12	1.353E-08	1.209E-07	400

CROSSHAIR INTEGRATED= 4.723E-05 4.534E-04
SEC/SEC 1/M

TEST U-42 NOVEMBER 4, 1965 1140 TO 1235 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
500M ARC SAMPLER HT 1.5M U= 9.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	F/ZC 1/SEC	DISTANCE METERS
46.0	13	5.400E-09	5.568E-08	500
48.0	181	7.572E-08	7.269E-07	500
52.0	507	2.120E-07	2.035E-06	500
56.0	1313	5.400E-07	5.268E-06	500
60.0	1590	6.601E-07	6.375E-06	500
64.0	1540	6.557E-07	6.295E-06	500
68.0	2194	9.132E-07	8.767E-06	500
72.0	703	3.274E-07	3.143E-06	500
76.0	97	0.922E-08	3.929E-07	500

CROSSHAIR INTEGRATED= 1.202E-04 1.154E-03
SEC/SEC 1/M

TEST U-42 NOVEMBER 4, 1965 1140 TO 1235 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
600M ARC SAMPLER HT 1.5M U= 9.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	F/ZC 1/SEC	DISTANCE METERS
46.0	311	1.302E-07	1.250E-06	600
50.0	219	9.180E-08	8.816E-07	600
54.0	1577	6.597E-07	6.329E-06	600
58.0	2950	1.233E-06	1.184E-05	600
62.0	4934	2.062E-06	1.979E-05	600
66.0	7299	3.050E-06	2.928E-05	600
70.0	1237	1.353E-06	1.299E-05	600
74.0	787	3.260E-07	3.158E-06	600
78.0	71	2.997E-08	2.877E-07	600

CROSSHAIR INTEGRATED= 3.744E-04 3.594E-03
SEC/SEC 1/M

TEST U-42 NOVEMBER 4, 1965 1140 TO 1235 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
700M ARC SAMPLER HT 1.5M U= 9.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	F/ZC 1/SEC	DISTANCE METERS
40.0	10	4.511E-09	4.531E-08	700
44.0	12	5.154E-09	4.949E-08	700
48.0	453	1.895E-07	1.819E-06	700
52.0	1144	4.782E-07	4.591E-06	700
56.0	2115	8.839E-07	8.485E-06	700
60.0	4741	1.941E-06	1.902E-05	700
64.0	7717	3.225E-06	3.094E-05	700
68.0	6333	2.647E-06	2.581E-05	700
72.0	2679	4.891E-07	4.634E-06	700
76.0	412	1.728E-07	1.655E-06	700
80.0	12	5.154E-09	4.949E-08	700

CROSSHAIR INTEGRATED= 5.112E-04 4.908E-03
SEC/SEC 1/M

TEST U-42 NOVEMBER 4, 1965 1140 TO 1235 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 9.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Z SEC/CM ²	F/ZC 1/SEC	DISTANCE METERS
Z 40.0	37	1.579E-08	1.516E-07	800
Z 43.0	53	2.256E-08	2.165E-07	800
Z 46.0	249	1.044E-07	1.002E-06	800
Z 49.0	444	1.856E-07	1.782E-06	800
52.0	1222	5.111E-07	4.906E-06	800
55.0	1395	5.832E-07	5.599E-06	800
58.0	2371	9.909E-07	9.512E-06	800
61.0	2247	9.393E-07	9.017E-06	800
64.0	8829	3.690E-06	3.542E-05	800
67.0	5140	2.140E-06	2.062E-05	800
70.0	3017	1.261E-06	1.210E-05	800
73.0	1859	7.772E-07	7.461E-06	800
76.0	359	1.502E-07	1.442E-06	800
79.0	171	7.153E-08	6.867E-07	800
82.0	114	4.769E-08	4.578E-07	800
85.0	141	5.897E-08	5.661E-07	800
88.0	50	2.127E-08	2.042E-07	800
91.0	40	1.676E-08	1.609E-07	800
94.0	80	3.351E-08	3.217E-07	800

CROSSHAIR INTEGRATED= 4.871E-04 4.676E-03
SEC/SEC 1/M

TEST U-42 NOVEMBER 4, 1965 1140 TO 1235 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 1200M ARC SAMPLER HT 1.5" U= 9.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	F/U 1/SEC	DISTANCE METERS
40.0	21	1.903E-09	6.575E-08	1200
42.0	16	6.208E-09	6.670E-08	1200
44.0	18	7.513E-09	7.201E-08	1200
46.0	50	2.203E-09	2.191E-07	1200
48.0	254	1.070E-07	1.027E-06	1200
50.0	591	2.026E-07	2.329E-06	1200
52.0	672	2.009E-07	2.696E-06	1200
54.0	1448	6.118E-07	5.892E-06	1200
56.0	1757	7.513E-07	7.213E-06	1200
58.0	1676	7.015E-07	6.734E-06	1200
60.0	3268	1.364E-06	1.310E-05	1200
62.0	3003	1.255E-06	1.205E-05	1200
64.0	4351	1.818E-06	1.746E-05	1200
66.0	3772	1.576E-06	1.513E-05	1200
68.0	1932	8.077E-07	7.754E-06	1200
70.0	1174	4.907E-07	4.711E-06	1200
72.0	1200	5.018E-07	4.817E-06	1200
74.0	743	3.109E-07	2.984E-06	1200
76.0	150	6.292E-08	6.041E-07	1200
78.0	55	2.303E-08	2.211E-07	1200
80.0	35	1.469E-08	1.410E-07	1200

CROSS-IND INTEGRATED= 8.525E-08 4.411E-03
 SEC/SEC 1/M

TEST U-42 NOVEMBER 4, 1965 1140 TO 1235 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 1600M ARC SAMPLER HT 1.5" U= 9.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	F/U 1/SEC	DISTANCE METERS
44.0	18	7.702E-09	7.032E-08	1600
46.0	20	9.738E-09	8.385E-08	1600
48.0	121	7.603E-09	7.288E-07	1600
50.0	373	1.560E-07	1.498E-06	1600
52.0	589	2.463E-07	2.365E-06	1600
54.0	1121	4.687E-07	4.495E-06	1600
56.0	1122	4.693E-07	4.505E-06	1600
58.0	1826	7.626E-07	7.321E-06	1600
60.0	2270	1.245E-06	1.195E-05	1600
62.0	3277	1.662E-06	1.546E-05	1600
64.0	4810	2.010E-06	1.930E-05	1600
66.0	3764	1.573E-06	1.510E-05	1600
68.0	2377	4.766E-07	4.376E-06	1600
70.0	1907	6.300E-07	6.048E-06	1600
72.0	1330	5.562E-07	5.340E-06	1600
74.0	286	1.199E-07	1.151E-06	1600
76.0	150	6.292E-08	6.041E-07	1600
78.0	4	1.905E-09	1.906E-08	1600

CROSS-IND INTEGRATED= 6.162E-08 5.916E-03
 SEC/SEC 1/M

TEST U-42 NOVEMBER 4, 1965 1140 TO 1235 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 3200M ARC SAMPLER HT 1.5" U= 9.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	F/U 1/SEC	DISTANCE METERS
47.0	0	2.023E-09	1.943E-08	3200
48.0	12	5.171E-09	4.964E-08	3200
49.0	36	1.520E-09	1.465E-07	3200
50.0	27	1.169E-09	1.122E-07	3200
51.0	9	4.159E-09	3.993E-08	3200
52.0	102	0.272E-09	4.101E-07	3200
53.0	195	7.914E-09	7.597E-07	3200
54.0	117	0.920E-09	0.727E-07	3200
55.0	170	7.138E-09	6.853E-07	3200
56.0	51	2.158E-09	2.072E-07	3200
57.0	247	1.030E-07	9.928E-07	3200
58.0	328	1.371E-07	1.317E-06	3200
59.0	457	1.913E-07	1.837E-06	3200
60.0	690	2.901E-07	2.785E-06	3200
61.0	611	2.555E-07	2.453E-06	3200
62.0	620	2.595E-07	2.491E-06	3200
63.0	613	2.166E-07	2.060E-06	3200
64.0	586	2.852E-07	2.354E-06	3200
65.0	686	2.534E-07	2.435E-06	3200
66.0	397	1.659E-07	1.593E-06	3200
67.0	461	1.927E-07	1.850E-06	3200
68.0	389	1.628E-07	1.563E-06	3200
69.0	251	1.052E-07	1.010E-06	3200
70.0	152	6.370E-08	6.119E-07	3200
71.0	211	8.258E-08	8.504E-07	3200
72.0	55	2.305E-08	2.212E-07	3200
73.0	45	1.211E-08	1.183E-07	3200
74.0	5	2.136E-09	2.050E-08	3200
75.0	13	5.621E-09	5.396E-08	3200
76.0	9	3.822E-09	3.689E-08	3200
77.0	2	1.012E-09	9.713E-09	3200
78.0	0	1.686E-09	1.619E-08	3200

CROSS-IND INTEGRATED= 1.725E-08 1.654E-03
 SEC/SEC 1/M

UNSTABLE SERIES EXPERIMENT: 43 (U-43)
GROUND LEVEL SAMPLING 100-1600 M ARCS.

TEST U-43 NOVEMBER 19, 1965 1540 TO 1620 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
100M ARC SAMPLED AT 1.5M U = 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GA=SEC/CM. X10E+6	F/Z SEC/CM. X10E+6	F/Z 1/SEC	DISTANCE METERS
12.0	7	0.410E-06	6.252E-08	100
16.0	17	2.168E-06	1.007E-07	100
20.0	44	7.536E-06	6.158E-07	100
24.0	8501	1.001E-05	6.744E-05	100
28.0	6	0.417E-06	5.071E-08	100
32.0	119	1.267E-07	9.535E-07	100
36.0	618	7.575E-07	4.924E-06	100

CROSSHAIR INTEGRATED = 7.979E-05 SEC/SEC
1/M

TEST U-43 NOVEMBER 19, 1965 1540 TO 1620 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLED AT 1.5M U = 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GA=SEC/CM. X10E+6	F/Z SEC/CM. X10E+6	F/Z 1/SEC	DISTANCE METERS
18.0	96	1.058E-07	6.078E-07	200
22.0	136	1.245E-07	8.441E-07	200
26.0	1130	1.266E-06	8.230E-06	200
30.0	599	6.200E-07	4.056E-06	200
34.0	119	1.455E-07	9.057E-07	200

CROSSHAIR INTEGRATED = 3.171E-05 SEC/SEC
1/M

TEST U-43 NOVEMBER 19, 1965 1540 TO 1620 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
300M ARC SAMPLED AT 1.5M U = 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GA=SEC/CM. X10E+6	F/Z SEC/CM. X10E+6	F/Z 1/SEC	DISTANCE METERS
16.0	110	1.455E-07	9.057E-07	300
20.0	704	8.605E-07	5.619E-06	300
24.0	1457	2.274E-06	1.478E-05	300
28.0	696	8.525E-07	5.501E-06	300
32.0	801	9.012E-07	6.378E-06	300
36.0	83	1.022E-07	6.643E-07	300

CROSSHAIR INTEGRATED = 1.043E-04 SEC/SEC
1/M

TEST U-43 NOVEMBER 19, 1965 1540 TO 1620 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLED AT 1.5M U = 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GA=SEC/CM. X10E+6	F/Z SEC/CM. X10E+6	F/Z 1/SEC	DISTANCE METERS
18.0	484	5.607E-07	3.697E-06	400
22.0	356	4.365E-07	2.837E-06	400
26.0	3863	6.729E-06	3.074E-05	400
30.0	6017	7.801E-06	5.129E-05	400
34.0	2163	2.608E-06	1.721E-05	400
38.0	95	1.166E-07	7.501E-07	400

CROSSHAIR INTEGRATED = 6.577E-04 SEC/SEC
1/M

TEST U-43 NOVEMBER 19, 1965 1540 TO 1620 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
500M ARC SAMPLED AT 1.5M U = 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GA=SEC/CM. X10E+6	F/Z SEC/CM. X10E+6	F/Z 1/SEC	DISTANCE METERS
16.0	197	2.207E-07	1.493E-06	500
20.0	1656	2.427E-06	1.631E-05	500
24.0	2462	3.626E-06	2.357E-05	500
28.0	4214	9.069E-06	5.505E-05	500
32.0	5174	6.330E-06	4.117E-05	500
36.0	1005	1.279E-06	8.316E-06	500

CROSSHAIR INTEGRATED = 7.667E-04 SEC/SEC
1/M

TEST U-43 NOVEMBER 19, 1965 1540 TO 1620 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
600M ARC SAMPLED AT 1.5M U = 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GA=SEC/CM. X10E+6	F/Z SEC/CM. X10E+6	F/Z 1/SEC	DISTANCE METERS
14.0	27	3.367E-08	2.188E-07	600
18.0	707	0.607E-07	5.627E-06	600
22.0	2697	3.302E-06	2.146E-05	600
26.0	5096	6.125E-06	3.981E-05	600
30.0	7745	9.520E-06	6.194E-05	600
34.0	4107	5.007E-06	3.268E-05	600
38.0	62	2.695E-08	5.002E-07	600

CROSSHAIR INTEGRATED = 1.045E-03 SEC/SEC
1/M

TEST U-43 NOVEMBER 19, 1965 1500 TO 1620 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
700M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CUM X10E+6	F/Z SEC/CUM	F/Z 1/SEC	DISTANCE METERS
12.0	11	1.003E-06	9.379E-08	700
16.0	200	2.053E-07	1.594E-06	700
20.0	1378	1.607E-06	1.097E-05	700
24.0	3617	0.427E-06	2.878E-05	700
28.0	8071	0.879E-06	6.621E-05	700
32.0	7224	2.802E-06	5.748E-05	700
36.0	1674	2.000E-06	1.333E-05	700

CROSSWIND INTEGRATED= 1.327E-03 SEC/SEC
1/M

TEST U-43 NOVEMBER 19, 1965 1500 TO 1620 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CUM X10E+6	F/Z SEC/CUM	F/Z 1/SEC	DISTANCE METERS
16.0	230	2.826E-07	1.837E-06	800
19.0	884	1.007E-06	7.065E-06	800
22.0	1957	2.306E-06	1.556E-05	800
25.0	3552	0.300E-06	2.826E-05	800
28.0	7384	9.038E-06	5.875E-05	800
31.0	7793	0.539E-06	6.200E-05	800
34.0	1797	2.200E-06	1.830E-05	800
37.0	531	6.055E-07	4.228E-06	800

CROSSWIND INTEGRATED= 1.237E-03 SEC/SEC
1/M

TEST U-43 NOVEMBER 19, 1965 1500 TO 1620 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CUM X10E+6	F/Z SEC/CUM	F/Z 1/SEC	DISTANCE METERS
14.0	11	1.003E-06	9.379E-08	1200
16.0	47	0.316E-06	5.065E-07	1200
18.0	553	6.770E-07	0.003E-06	1200
20.0	75	0.255E-06	6.016E-07	1200
22.0	27	1.020E-06	2.223E-07	1200
24.0	1466	1.705E-06	1.167E-05	1200
26.0	3285	0.021E-06	2.614E-05	1200
28.0	4256	5.210E-06	3.386E-05	1200
30.0	5098	6.241E-06	4.052E-05	1200
32.0	6514	7.973E-06	5.183E-05	1200
34.0	5359	6.560E-06	4.264E-05	1200
36.0	1822	2.231E-06	1.450E-05	1200
38.0	32	3.997E-08	2.572E-07	1200

CROSSWIND INTEGRATED= 1.465E-03 SEC/SEC
1/M

TEST U-43 NOVEMBER 19, 1965 1500 TO 1620 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CUM X10E+6	F/Z SEC/CUM	F/Z 1/SEC	DISTANCE METERS
14.0	12	1.502E-06	1.003E-07	1600
16.0	1	2.012E-06	1.308E-08	1600
18.0	184	2.200E-07	1.469E-06	1600
20.0	417	5.110E-07	3.322E-06	1600
22.0	95	1.221E-07	7.030E-07	1600
24.0	762	7.329E-07	4.064E-06	1600
26.0	1625	1.290E-06	1.293E-05	1600
28.0	2604	3.298E-06	2.137E-05	1600
30.0	5230	6.003E-06	4.162E-05	1600
32.0	6232	7.625E-06	4.959E-05	1600
34.0	6299	7.710E-06	5.012E-05	1600
W 36.0	1626	1.900E-06	1.294E-05	1600
W 38.0	21	2.493E-08	1.744E-07	1600

CROSSWIND INTEGRATED= 1.723E-03 SEC/SEC
1/M

UNSTABLE SERIES EXPERIMENT: 44 (U-44)
GROUND LEVEL SAMPLING 100-1600 M ARCS. FOR EASE IN STATISTICAL
ANALYSIS, ALL SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES
FROM THEIR ACTUAL POSITIONS.

TEST U-44 AUGUST 10, 1965 1122 TO 1152 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
100M ARC SAMPLER HT 1.5' U= 1.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	EU/D 1/SG.M	DISTANCE METERS
10.0	114	2.756E-07	4.961E-07	100
14.0	662	1.588E-06	2.858E-06	100
18.0	67	1.625E-07	2.926E-07	100
22.0	8	2.120E-08	3.816E-08	100
26.0	644	1.545E-06	2.782E-06	100
30.0	306	7.350E-07	1.323E-06	100
34.0	290	6.973E-07	1.255E-06	100
38.0	2027	4.862E-06	8.752E-06	100
42.0	2024	4.855E-06	8.739E-06	100
46.0	3204	7.685E-06	1.383E-05	100
50.0	2863	6.867E-06	1.236E-05	100
54.0	3928	9.421E-06	1.696E-05	100
58.0	3704	8.884E-06	1.599E-05	100
62.0	2032	4.870E-06	8.773E-06	100
66.0	3571	8.564E-06	1.502E-05	100
70.0	3833	9.192E-06	1.655E-05	100
74.0	1540	3.694E-06	6.649E-06	100
78.0	3811	9.140E-06	1.645E-05	100
82.0	1793	9.098E-06	1.638E-05	100
86.0	3755	9.006E-06	1.621E-05	100
90.0	2440	5.852E-06	1.053E-05	100
94.0	2139	5.131E-06	9.236E-06	100
98.0	1458	3.498E-06	6.297E-06	100
102.0	1032	2.476E-06	4.457E-06	100
106.0	279	6.714E-07	1.209E-06	100
110.0	151	3.628E-07	6.530E-07	100
114.0	29	7.067E-08	1.272E-07	100
118.0	8	2.120E-08	3.816E-08	100
138.0	53	8.010E-08	1.442E-07	100
142.0	2	7.067E-09	1.272E-08	100
146.0	66	1.602E-07	2.883E-07	100
150.0	29	7.067E-08	1.272E-07	100

CROSSWIND INTEGRATED= 8.362E-04 1.505E-03
SEC/SG.M 1/M

TEST U-44 AUGUST 10, 1965 1122 TO 1152 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5' U= 1.6 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	EU/D 1/SG.M	DISTANCE METERS
12.0	2644	6.302E-06	1.142E-05	200
16.0	5371	1.288E-05	2.319E-05	200
20.0	1841	4.417E-06	7.951E-06	200
24.0	1554	3.727E-06	6.708E-06	200
28.0	772	1.852E-06	3.333E-06	200
32.0	221	5.301E-07	9.541E-07	200
36.0	1044	2.601E-06	4.681E-06	200
40.0	1165	2.790E-06	5.029E-06	200
44.0	1712	4.106E-06	7.391E-06	200
48.0	2481	5.951E-06	1.071E-05	200
52.0	496	1.190E-06	2.141E-06	200
56.0	1428	3.425E-06	6.166E-06	200
60.0	2792	6.698E-06	1.206E-05	200
64.0	6247	1.498E-05	2.697E-05	200
68.0	5113	1.226E-05	2.207E-05	200
72.0	4724	1.133E-05	2.039E-05	200
76.0	3936	9.440E-06	1.699E-05	200
80.0	4084	9.795E-06	1.763E-05	200
84.0	946	2.365E-06	4.257E-06	200
88.0	2206	5.291E-06	9.524E-06	200
92.0	1509	3.621E-06	6.518E-06	200
96.0	514	1.234E-06	2.222E-06	200
100.0	27	6.594E-08	1.187E-07	200
104.0	56	1.364E-07	2.459E-07	200
108.0	12	3.063E-08	5.513E-08	200
112.0	0	0.000E+00	0.000E+00	200
116.0	11	2.827E-08	5.088E-08	200
120.0	21	5.183E-08	9.329E-08	200
124.0	14	3.534E-08	6.361E-08	200
128.0	0	0.000E+00	0.000E+00	200
132.0	31	7.539E-08	1.357E-07	200
152.0	15	3.769E-08	6.785E-08	200

CROSSWIND INTEGRATED= 1.781E-03 3.205E-03
SEC/SG.M 1/M

TEST U-44 AUGUST 10, 1965 1122 TO 1152 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
300M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/R SEC/CU.M	E/D 1/SQ.M	DISTANCE METERS
10.0	1944	4.662E-06	2.392E-06	300
14.0	633	1.519E-06	2.735E-06	300
18.0	693	1.663E-06	2.994E-06	300
22.0	530	1.272E-06	2.290E-06	300
Q 26.0	393	9.447E-07	1.700E-06	300
Q 30.0	310	7.444E-07	1.340E-06	300
Q 34.0	315	7.562E-07	1.361E-06	300
Q 38.0	1127	2.704E-06	4.868E-06	300
42.0	671	1.611E-06	2.900E-06	300
46.0	462	1.110E-06	1.997E-06	300
50.0	562	1.350E-06	2.430E-06	300
54.0	1077	2.584E-06	4.652E-06	300
Q 58.0	622	1.494E-06	2.688E-06	300
Q 62.0	2400	5.758E-06	1.036E-05	300
Q 66.0	2401	5.760E-06	1.037E-05	300
Q 70.0	2466	5.915E-06	1.065E-05	300
74.0	1704	4.087E-06	7.357E-06	300
78.0	2177	5.223E-06	9.401E-06	300
82.0	1959	4.700E-06	8.460E-06	300
86.0	1969	4.723E-06	8.502E-06	300
90.0	1470	3.527E-06	6.348E-06	300
94.0	833	1.998E-06	3.596E-06	300
102.0	322	7.727E-07	1.391E-06	300
106.0	106	2.544E-07	4.580E-07	300
110.0	106	2.544E-07	4.580E-07	300
114.0	0	0.000E+00	0.000E+00	300
118.0	9	2.356E-08	4.240E-08	300
122.0	13	3.298E-08	5.937E-08	300
126.0	15	3.769E-08	6.785E-08	300

CROSSWIND INTEGRATED= 1.429E-03
SEC/90.M 2.573E-03
1/M

TEST U-44 AUGUST 10, 1965 1122 TO 1152 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/R SEC/CU.M	E/D 1/SQ.M	DISTANCE METERS
12.0	808	1.939E-06	3.490E-06	400
P 16.0	417	1.001E-06	1.802E-06	400
20.0	216	5.183E-07	9.329E-07	400
24.0	12	3.063E-08	5.513E-08	400
28.0	144	3.463E-07	6.233E-07	400
32.0	84	2.026E-07	3.647E-07	400
36.0	79	1.908E-07	3.435E-07	400
40.0	193	4.641E-07	8.354E-07	400
44.0	267	6.408E-07	1.153E-06	400
48.0	288	6.926E-07	1.247E-06	400
52.0	381	9.140E-07	1.645E-06	400
56.0	833	1.998E-06	3.596E-06	400
60.0	1199	2.876E-06	5.178E-06	400
64.0	1102	2.647E-06	4.758E-06	400
68.0	1067	2.561E-06	4.609E-06	400
72.0	1175	2.820E-06	5.076E-06	400
76.0	1245	2.987E-06	5.377E-06	400
80.0	1471	3.529E-06	6.352E-06	400
84.0	961	2.306E-06	4.151E-06	400
88.0	818	1.962E-06	3.532E-06	400
92.0	394	4.470E-07	1.705E-06	400
96.0	214	5.136E-07	9.244E-07	400
100.0	45	1.084E-07	1.951E-07	400
104.0	78	1.845E-07	3.392E-07	400
108.0	87	2.097E-07	3.774E-07	400
112.0	38	9.188E-08	1.654E-07	400
116.0	64	1.555E-07	2.799E-07	400
120.0	50	1.201E-07	2.163E-07	400
124.0	11	2.827E-08	5.088E-08	400
128.0	2	7.067E-09	1.272E-08	400
C 132.0	2	7.067E-09	1.272E-08	400
136.0	8	2.120E-08	3.816E-08	400
140.0	2	7.067E-09	1.272E-08	400
144.0	14	3.534E-08	6.361E-08	400
148.0	8	2.120E-08	3.816E-08	400

CROSSWIND INTEGRATED= 9.239E-04
SEC/90.M 1.663E-03
1/M

TEST U-44 AUGUST 10, 1965 1122 TO 1152 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
500M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
10.0	255	6.125E-07	1.103E-06	500
14.0	187	4.500E-07	8.099E-07	500
18.0	82	1.979E-07	3.562E-07	500
22.0	181	4.358E-07	7.845E-07	500
26.0	75	1.814E-07	3.265E-07	500
30.0	93	2.238E-07	4.028E-07	500
34.0	76	1.838E-07	3.308E-07	500
38.0	78	1.885E-07	3.392E-07	500
42.0	72	1.743E-07	3.138E-07	500
46.0	167	4.005E-07	7.209E-07	500
50.0	180	4.335E-07	7.802E-07	500
54.0	611	1.465E-06	2.638E-06	500
58.0	563	1.352E-06	2.434E-06	500
62.0	676	1.623E-06	2.922E-06	500
66.0	903	2.167E-06	3.981E-06	500
70.0	441	1.058E-06	1.904E-06	500
74.0	612	1.470E-06	2.646E-06	500
78.0	618	1.484E-06	2.671E-06	500
82.0	713	1.710E-06	3.079E-06	500
86.0	624	1.498E-06	2.697E-06	500
90.0	232	5.583E-07	1.005E-06	500
94.0	145	3.487E-07	6.276E-07	500
98.0	80	1.932E-07	3.477E-07	500
102.0	63	1.531E-07	2.756E-07	500
106.0	98	1.154E-07	2.070E-07	500
110.0	96	2.309E-07	4.156E-07	500
114.0	59	1.437E-07	2.587E-07	500
118.0	73	1.767E-07	3.180E-07	500
122.0	67	1.625E-07	2.926E-07	500
126.0	46	1.107E-07	1.993E-07	500
130.0	87	2.097E-07	3.774E-07	500
134.0	39	9.423E-08	1.696E-07	500

CROSSWIND INTEGRATED= 6.914E-04 SEC/SQ.M 1.245E-03 1/M

TEST U-44 AUGUST 10, 1965 1122 TO 1152 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
600M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
12.0	28	6.832E-08	1.230E-07	600
16.0	77	1.861E-07	3.350E-07	600
20.0	53	1.272E-07	2.290E-07	600
24.0	34	8.245E-08	1.484E-07	600
28.0	37	8.952E-08	1.611E-07	600
32.0	6	1.649E-08	2.968E-08	600
36.0	66	1.602E-07	2.883E-07	600
40.0	45	1.084E-07	1.951E-07	600
44.0	18	4.476E-08	8.057E-08	600
48.0	122	2.945E-07	5.301E-07	600
52.0	223	5.371E-07	9.668E-07	600
56.0	272	6.526E-07	1.175E-06	600
60.0	429	1.029E-06	1.853E-06	600
64.0	366	8.787E-07	1.582E-06	600
68.0	236	5.677E-07	1.022E-06	600
72.0	475	1.140E-06	2.052E-06	600
76.0	445	1.070E-06	1.925E-06	600
80.0	273	6.549E-07	1.179E-06	600
84.0	148	3.557E-07	6.403E-07	600
88.0	169	4.074E-07	7.334E-07	600
108.0	48	1.154E-07	2.078E-07	600
112.0	73	1.767E-07	3.180E-07	600
116.0	88	2.120E-07	3.816E-07	600
120.0	47	1.131E-07	2.035E-07	600
124.0	75	1.814E-07	3.265E-07	600
128.0	112	2.709E-07	4.876E-07	600
132.0	92	2.214E-07	3.986E-07	600
136.0	41	9.894E-08	1.781E-07	600
140.0	17	4.240E-08	7.633E-08	600
144.0	16	4.005E-08	7.209E-08	600
152.0	10	2.591E-08	4.664E-08	600

CROSSWIND INTEGRATED= 4.628E-04 SEC/SQ.M 8.330E-04 1/M

TEST U-44 AUGUST 10, 1945 1122 TO 1152 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
700M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	EU/G 1/SGU.M	DISTANCE METERS
10.0	53	1.272E-07	2.290E-07	700
14.0	134	3.227E-07	5.809E-07	700
18.0	12A	3.086E-07	5.555E-07	700
22.0	21	5.183E-08	9.329E-08	700
26.0	A2	1.979E-07	3.562E-07	700
30.0	23	5.654E-08	1.018E-07	700
34.0	58	1.413E-07	2.544E-07	700
38.0	47	1.131E-07	2.035E-07	700
42.0	65	1.578E-07	2.841E-07	700
46.0	A7	2.097E-07	3.774E-07	700
50.0	118	2.851E-07	5.131E-07	700
54.0	334	8.010E-07	1.442E-06	700
58.0	381	9.140E-07	1.645E-06	700
62.0	153	3.675E-07	6.615E-07	700
66.0	238	5.725E-07	1.030E-06	700
70.0	254	6.101E-07	1.098E-06	700
74.0	234	5.630E-07	1.013E-06	700
78.0	133	3.204E-07	5.767E-07	700
82.0	192	4.617E-07	8.311E-07	700
86.0	7	1.885E-08	3.392E-08	700
90.0	111	2.662E-07	4.792E-07	700
94.0	52	1.249E-07	2.247E-07	700
98.0	91	2.191E-07	3.944E-07	700
102.0	131	3.157E-07	5.662E-07	700
106.0	64	1.555E-07	2.799E-07	700
110.0	33	8.010E-08	1.442E-07	700
114.0	48	1.154E-07	2.078E-07	700
118.0	49	1.178E-07	2.120E-07	700
122.0	36	8.716E-08	1.569E-07	700
126.0	25	6.125E-08	1.103E-07	700
130.0	40	9.659E-08	1.739E-07	700
134.0	50	1.201E-07	2.163E-07	700
138.0	62	1.508E-07	2.714E-07	700
142.0	0	2.356E-09	4.240E-09	700
146.0	A	2.120E-08	3.816E-08	700

CROSSWIND INTEGRATED= 4.171E-04 7.508E-04
SEC/SGU.M 1/M

TEST U-44 AUGUST 10, 1965 1122 TO 1152 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
ROOM ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	EU/G 1/SGU.M	DISTANCE METERS
10.0	104	2.497E-07	4.495E-07	800
13.0	88	2.120E-07	3.816E-07	800
16.0	131	3.157E-07	5.662E-07	800
19.0	76	1.838E-07	3.308E-07	800
22.0	68	1.649E-07	2.968E-07	800
25.0	A2	1.979E-07	3.562E-07	800
28.0	54	1.296E-07	2.332E-07	800
31.0	95	2.285E-07	4.113E-07	800
34.0	90	2.167E-07	3.901E-07	800
37.0	63	1.531E-07	2.756E-07	800
40.0	65	1.578E-07	2.841E-07	800
43.0	156	3.746E-07	6.742E-07	800
46.0	83	2.002E-07	3.604E-07	800
49.0	204	4.900E-07	8.820E-07	800
52.0	238	5.725E-07	1.030E-06	800
55.0	340	8.175E-07	1.471E-06	800
58.0	127	3.063E-07	5.513E-07	800
61.0	305	7.326E-07	1.319E-06	800
64.0	222	5.324E-07	9.583E-07	800
67.0	188	4.523E-07	8.142E-07	800
70.0	10	2.591E-08	4.664E-08	800
73.0	222	5.348E-07	9.626E-07	800
76.0	111	2.662E-07	4.792E-07	800
79.0	98	2.356E-07	4.240E-07	800
82.0	216	5.183E-07	9.329E-07	800
85.0	84	2.026E-07	3.647E-07	800
88.0	82	1.979E-07	3.562E-07	800
91.0	69	1.673E-07	3.011E-07	800
94.0	67	1.625E-07	2.926E-07	800
97.0	75	1.814E-07	3.265E-07	800
100.0	42	1.013E-07	1.823E-07	800
103.0	44	1.060E-07	1.908E-07	800
106.0	46	1.107E-07	1.993E-07	800
109.0	33	8.010E-08	1.442E-07	800
112.0	27	6.596E-08	1.187E-07	800
115.0	41	9.894E-08	1.781E-07	800
118.0	22	5.418E-08	9.753E-08	800
121.0	16	4.005E-08	7.209E-08	800
124.0	47	1.131E-07	2.035E-07	800
127.0	23	5.654E-08	1.018E-07	800
130.0	29	7.067E-08	1.272E-07	800

CROSSWIND INTEGRATED= 4.574E-04 8.233E-04
SEC/SGU.M 1/M

TEST U-44 AUGUST 10, 1965 1122 TO 1152 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
30.0	79	1.904E-07	3.427E-07	1200
32.0	50	1.200E-07	2.161E-07	1200
34.0	98	2.373E-07	4.271E-07	1200
36.0	97	2.345E-07	4.222E-07	1200
38.0	158	3.744E-07	6.829E-07	1200
40.0	73	1.752E-07	3.154E-07	1200
42.0	124	2.944E-07	5.389E-07	1200
44.0	147	3.532E-07	6.357E-07	1200
46.0	182	4.347E-07	7.897E-07	1200
48.0	128	3.040E-07	5.563E-07	1200
50.0	255	6.126E-07	1.103E-06	1200
52.0	223	5.353E-07	9.635E-07	1200
54.0	245	5.877E-07	1.058E-06	1200
56.0	196	4.718E-07	8.493E-07	1200
58.0	178	4.277E-07	7.698E-07	1200
60.0	111	2.677E-07	4.818E-07	1200
62.0	159	3.822E-07	6.879E-07	1200
64.0	157	3.740E-07	6.804E-07	1200
66.0	169	4.056E-07	7.301E-07	1200
68.0	83	2.000E-07	3.601E-07	1200
70.0	113	2.732E-07	4.917E-07	1200
72.0	65	1.573E-07	2.831E-07	1200
74.0	145	3.401E-07	6.283E-07	1200
76.0	56	1.352E-07	2.434E-07	1200
78.0	22	5.341E-08	9.605E-08	1200
80.0	60	1.462E-07	2.632E-07	1200
82.0	40	9.658E-08	1.738E-07	1200
84.0	55	1.324E-07	2.384E-07	1200
86.0	73	1.766E-07	3.179E-07	1200
88.0	41	1.007E-07	1.813E-07	1200
90.0	43	1.035E-07	1.863E-07	1200
92.0	29	7.036E-08	1.267E-07	1200
94.0	28	6.898E-08	1.242E-07	1200
96.0	18	4.553E-08	8.195E-08	1200
98.0	27	6.484E-08	1.167E-07	1200
100.0	18	4.553E-08	8.195E-08	1200
102.0	40	9.746E-08	1.763E-07	1200
104.0	38	9.244E-08	1.664E-07	1200
106.0	61	1.476E-07	2.657E-07	1200
108.0	52	1.269E-07	2.285E-07	1200
110.0	16	4.001E-08	7.202E-08	1200
112.0	38	9.244E-08	1.664E-07	1200
114.0	49	1.147E-07	2.136E-07	1200
116.0	39	9.520E-08	1.714E-07	1200
118.0	29	7.036E-08	1.267E-07	1200
120.0	16	4.001E-08	7.202E-08	1200
122.0	15	3.725E-08	6.705E-08	1200
124.0	55	1.338E-07	2.409E-07	1200

CROSSWIND INTEGRATED= 4.652E-04 8.374E-04
SEC/SQ.M 1/M

TEST U-44 AUGUST 10, 1965 1122 TO 1152 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
30.0	37	8.968E-08	1.614E-07	1600
32.0	42	1.021E-07	1.838E-07	1600
34.0	58	1.407E-07	2.533E-07	1600
36.0	66	1.547E-07	2.856E-07	1600
38.0	78	1.890E-07	3.402E-07	1600
40.0	71	1.725E-07	3.104E-07	1600
42.0	28	6.760E-08	1.217E-07	1600
44.0	8	2.069E-08	3.725E-08	1600
46.0	61	1.476E-07	2.657E-07	1600
48.0	53	1.283E-07	2.310E-07	1600
50.0	63	1.518E-07	2.732E-07	1600
52.0	98	2.359E-07	4.247E-07	1600
54.0	105	2.539E-07	4.569E-07	1600
56.0	40	9.658E-08	1.738E-07	1600
58.0	65	1.573E-07	2.831E-07	1600
60.0	6	1.656E-08	2.980E-08	1600
62.0	66	1.600E-07	2.881E-07	1600
64.0	50	1.214E-07	2.185E-07	1600
66.0	41	1.007E-07	1.813E-07	1600
68.0	39	9.342E-08	1.689E-07	1600
70.0	49	1.187E-07	2.136E-07	1600
72.0	41	9.933E-08	1.788E-07	1600
74.0	40	9.796E-08	1.763E-07	1600
76.0	40	9.658E-08	1.738E-07	1600
78.0	24	5.933E-08	1.068E-07	1600
80.0	36	8.692E-08	1.565E-07	1600
82.0	24	5.933E-08	1.068E-07	1600
84.0	18	4.553E-08	8.195E-08	1600
86.0	27	6.622E-08	1.192E-07	1600
88.0	20	4.967E-08	8.940E-08	1600
90.0	9	2.207E-08	3.973E-08	1600
92.0	14	3.587E-08	6.457E-08	1600
94.0	1	2.759E-09	4.967E-09	1600
96.0	23	5.519E-08	9.933E-08	1600
98.0	17	4.277E-08	7.698E-08	1600
100.0	25	6.208E-08	1.118E-07	1600
102.0	20	4.967E-08	8.940E-08	1600
104.0	16	4.001E-08	7.202E-08	1600
106.0	11	2.759E-08	4.967E-08	1600
108.0	10	2.443E-08	4.470E-08	1600
110.0	10	2.443E-08	4.470E-08	1600
112.0	17	4.277E-08	7.698E-08	1600
114.0	18	4.415E-08	7.947E-08	1600
116.0	21	5.105E-08	9.188E-08	1600
118.0	12	3.035E-08	5.463E-08	1600
120.0	14	3.587E-08	6.457E-08	1600
122.0	20	4.829E-08	8.692E-08	1600
124.0	9	2.207E-08	3.973E-08	1600
126.0	9	2.207E-08	3.973E-08	1600

CROSSWIND INTEGRATED= 2.375E-04 4.275E-04
SEC/SQ.M 1/M

UNSTABLE SERIES EXPERIMENT: 45 (U-45)
ZINC SULFIDE AND FLUORESCIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT 45. ZINC SULFIDE RESULTS ARE PRESENTED HERE. GROUND
LEVEL SAMPLING 200-1600 M ARC.

TEST U45 OCTOBER 19, 1966 1315 TO 1420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 6.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
8.0	7	1.351E-08	9.185E-08	200
12.0	455	8.190E-07	5.569E-06	200
16.0	1436	2.584E-06	1.757E-05	200
20.0	2214	3.943E-06	2.709E-05	200
24.0	9199	1.655E-05	1.125E-04	200
28.0	29276	5.266E-05	3.581E-04	200
32.0	58844	1.059E-04	7.199E-04	200
36.0	123514	2.221E-04	1.511E-03	200
40.0	144752	2.675E-04	1.819E-03	200
44.0	93473	1.681E-04	1.143E-03	200
48.0	32809	5.901E-05	4.013E-04	200
52.0	8708	1.566E-05	1.065E-04	200
56.0	1810	3.256E-06	2.214E-05	200
60.0	286	5.145E-07	3.499E-06	200
64.0	6	1.105E-08	7.515E-08	200

CROSSWIND INTEGRATED= 1.203E-02 SEC/SQ.M
8.180E-02 1/M

TEST U45 OCTOBER 19, 1966 1315 TO 1420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
600M ARC SAMPLER HT 1.5M U= 6.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
2.0	6	1.105E-08	7.515E-08	600
6.0	822	1.478E-06	1.005E-05	600
10.0	4387	7.892E-06	5.366E-05	600
14.0	8624	1.551E-05	1.055E-04	600
18.0	19470	3.493E-05	2.375E-04	600
22.0	17198	3.093E-05	2.103E-04	600
26.0	5121	9.212E-06	6.264E-05	600
30.0	841	1.514E-06	1.030E-05	600
34.0	12	2.210E-08	1.503E-07	600
38.0	6	1.105E-08	7.515E-08	600

CROSSWIND INTEGRATED= 4.252E-03 SEC/SQ.M
2.891E-02 1/M

TEST U45 OCTOBER 19, 1966 1315 TO 1420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
400M ARC SAMPLER HT 1.5M U= 6.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
2.0	657	1.182E-06	8.041E-06	400
6.0	3356	6.038E-06	4.106E-05	400
10.0	9967	1.793E-05	1.214E-04	400
14.0	27029	4.861E-05	3.306E-04	400
18.0	49391	7.265E-05	4.940E-04	400
22.0	36046	6.483E-05	4.409E-04	400
26.0	14941	2.687E-05	1.827E-04	400
30.0	4466	8.033E-06	5.463E-05	400
34.0	985	1.772E-06	1.205E-05	400
38.0	149	3.059E-07	2.079E-06	400

CROSSWIND INTEGRATED= 6.932E-03 SEC/SQ.M
4.714E-02 1/M

TEST U45 OCTOBER 19, 1966 1315 TO 1420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
700M ARC SAMPLER HT 1.5M U= 6.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
4.0	144	2.603E-07	1.770E-06	700
8.0	1470	2.645E-06	1.799E-05	700
12.0	5420	9.750E-06	6.630E-05	700
16.0	9458	1.701E-05	1.157E-04	700
20.0	11226	2.019E-05	1.373E-04	700
24.0	10787	1.940E-05	1.319E-04	700
28.0	2201	3.960E-06	2.693E-05	700
32.0	41	7.490E-08	5.093E-07	700
36.0	17	3.193E-08	2.171E-07	700

CROSSWIND INTEGRATED= 3.583E-03 SEC/SQ.M
2.437E-02 1/M

TEST U45 OCTOBER 19, 1966 1315 TO 1420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 6.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
4.0	64	1.167E-07	7.932E-07	800
7.0	358	6.447E-07	4.384E-06	800
10.0	1853	3.334E-06	2.267E-05	800
13.0	6182	1.112E-05	7.561E-05	800
16.0	7594	1.366E-05	9.288E-05	800
19.0	9511	1.711E-05	1.163E-04	800
22.0	10823	1.947E-05	1.324E-04	800
25.0	5519	9.927E-06	6.750E-05	800
28.0	1650	2.969E-06	2.019E-05	800
31.0	44	7.982E-08	5.427E-07	800

CROSSWIND INTEGRATED= 3.285E-03 2.234E-02
SEC/SQ.M 1/M

TEST U45 OCTOBER 19, 1966 1315 TO 1420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1200M ARC SAMPLER HT 1.5M U= 6.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
6.0	27	4.948E-08	3.365E-07	1200
8.0	125	2.262E-07	1.538E-06	1200
10.0	407	8.043E-07	5.469E-06	1200
12.0	1100	1.978E-06	1.345E-05	1200
14.0	2063	3.712E-06	2.524E-05	1200
16.0	2800	5.036E-06	3.424E-05	1200
18.0	5184	9.324E-06	6.341E-05	1200
C 20.0	5071	9.121E-06	6.202E-05	1200
C 22.0	3438	6.184E-06	4.205E-05	1200
24.0	2039	3.869E-06	2.495E-05	1200
26.0	731	1.316E-06	8.946E-06	1200
28.0	256	4.618E-07	3.140E-06	1200
30.0	130	2.348E-07	1.597E-06	1200

CROSSWIND INTEGRATED= 1.764E-03 1.200E-02
SEC/SQ.M 1/M

TEST U45 OCTOBER 19, 1966 1315 TO 1420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 6.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
0.0	38	6.912E-08	4.700E-07	1600
2.0	165	2.969E-07	2.019E-06	1600
4.0	6	1.100E-08	7.477E-08	1600
6.0	3	7.069E-09	4.807E-08	1600
8.0	31	5.733E-08	3.899E-07	1600
10.0	93	1.673E-07	1.138E-06	1600
12.0	144	2.592E-07	1.762E-06	1600
14.0	226	4.076E-07	2.772E-06	1600
16.0	1439	2.589E-06	1.760E-05	1600
18.0	1968	3.540E-06	2.407E-05	1600
20.0	1715	3.085E-06	2.098E-05	1600
22.0	1293	2.326E-06	1.581E-05	1600
24.0	718	1.293E-06	8.791E-06	1600
26.0	366	6.590E-07	4.481E-06	1600
28.0	120	2.168E-07	1.474E-06	1600
30.0	15	2.827E-08	1.923E-07	1600
32.0	8	1.571E-08	1.088E-07	1600
34.0	4	8.639E-09	5.875E-08	1600
36.0	4	8.639E-09	5.875E-08	1600
38.0	3	7.069E-09	4.807E-08	1600
40.0	41	7.540E-08	5.127E-07	1600
50.0	10	1.806E-08	1.228E-07	1600
52.0	13	2.356E-08	1.602E-07	1600
54.0	13	2.435E-08	1.656E-07	1600
56.0	21	3.848E-08	2.617E-07	1600
58.0	9	1.728E-08	1.175E-07	1600
60.0	7	1.335E-08	9.079E-08	1600
62.0	11	2.121E-08	1.442E-07	1600
64.0	16	2.906E-08	1.976E-07	1600
66.0	41	1.100E-07	7.477E-07	1600
70.0	19	3.534E-08	2.403E-07	1600
72.0	5	1.021E-08	6.943E-08	1600
74.0	3	7.069E-09	4.807E-08	1600
76.0	16	2.906E-08	1.976E-07	1600
78.0	48	8.639E-08	5.875E-07	1600
80.0	62	1.131E-07	7.691E-07	1600
82.0	58	1.052E-07	7.157E-07	1600
84.0	14	2.592E-08	1.762E-07	1600
86.0	27	4.869E-08	3.311E-07	1600
90.0	4	8.639E-09	5.875E-08	1600
92.0	13	2.513E-08	1.709E-07	1600
98.0	13	2.356E-08	1.602E-07	1600
100.0	6	1.178E-08	8.011E-08	1600
102.0	107	1.940E-07	1.319E-06	1600
104.0	55	9.896E-08	6.729E-07	1600
106.0	9	1.649E-08	1.122E-07	1600
108.0	89	1.602E-07	1.090E-06	1600
110.0	43	7.775E-08	5.287E-07	1600
112.0	55	9.896E-08	6.729E-07	1600
114.0	65	1.170E-07	7.958E-07	1600
116.0	6	1.257E-08	8.545E-08	1600
118.0	75	1.359E-07	9.239E-07	1600
120.0	61	1.107E-07	7.530E-07	1600

CROSSWIND INTEGRATED= 0.647E-04 6.560E-03
SEC/SQ.M 1/M

UNSTABLE SERIES EXPERIMENT: 45F (D-45F)
ZINC SULFIDE AND FLUORESCHEIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT 45. FLUORESCHEIN RESULTS ARE PRESENTED HERE. GROUND
LEVEL SAMPLING 200-1600 M ARC,

TEST BASE OCTOBER 19, 1966 1350 TO 1420 PST
FLUORESCHEIN RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U=10.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	F/U 1/SEC	DISTANCE METERS
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4.0	25	4.618E-08	5.009E-07	200
8.0	24	5.195E-08	5.410E-07	200
12.0	31	5.751E-08	6.211E-07	200
16.0	37	6.679E-08	7.213E-07	200
20.0	73	1.117E-07	1.023E-06	200
24.0	397	7.142E-07	7.714E-06	200
28.0	195	3.525E-07	3.807E-06	200
32.0	434	1.501E-06	1.621E-05	200
36.0	1254	2.263E-06	2.440E-05	200
40.0	1872	1.929E-06	2.084E-05	200
44.0	550	9.907E-07	1.070E-05	200
X 48.0	204	4.471E-07	4.829E-06	200
X 52.0	170	2.171E-07	2.344E-06	200
X 56.0	46	1.554E-07	1.683E-06	200
Y 60.0	22	4.081E-08	4.408E-07	200
64.0	16	2.948E-08	3.206E-07	200
68.0	14	2.597E-08	2.805E-07	200
72.0	4	7.421E-09	8.014E-08	200
76.0	12	2.226E-08	2.404E-07	200
80.0	28	5.195E-08	5.610E-07	200
84.0	21	3.866E-08	4.208E-07	200

CROSSWIND INTEGRATED= 1.277E-04 SEC/SQ.M
1.379E-03 1/M

TEST BASE OCTOBER 19, 1966 1350 TO 1420 PST
FLUORESCHEIN RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U=10.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	F/U 1/SEC	DISTANCE METERS
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4.0	104	1.474E-07	2.024E-06	400
8.0	321	1.477E-06	1.595E-05	400
12.0	1600	2.950E-06	3.186E-05	400
16.0	2537	4.564E-06	4.929E-05	400
20.0	4631	9.330E-06	8.996E-05	400
24.0	4429	4.812E-06	4.517E-05	400
28.0	2554	4.601E-06	4.969E-05	400
Z 32.0	665	1.197E-06	1.292E-05	400
Z 36.0	110	1.945E-07	2.184E-06	400
Z 40.0	28	5.195E-08	5.610E-07	400
Z 44.0	26	4.423E-08	5.209E-07	400
48.0	25	4.618E-08	5.009E-07	400
52.0	23	4.267E-08	4.608E-07	400

CROSSWIND INTEGRATED= 9.977E-04 SEC/SQ.M
9.803E-03 1/M

TEST BASE OCTOBER 19, 1966 1350 TO 1420 PST
FLUORESCHEIN RELEASE FROM ELEVATION OF 26M
600M ARC SAMPLER HT 1.5M U=10.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	F/U 1/SEC	DISTANCE METERS
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4.0	35	6.348E-08	6.812E-07	600
8.0	397	7.142E-07	7.714E-06	600
12.0	1330	2.303E-06	2.545E-05	600
16.0	2744	5.089E-06	5.410E-05	600
20.0	4899	9.812E-06	9.517E-05	600
24.0	5219	9.347E-06	1.010E-04	600
28.0	2073	3.729E-06	4.027E-05	600
32.0	424	7.603E-07	8.255E-06	600
36.0	43	7.792E-08	8.415E-07	600
40.0	21	3.896E-08	4.208E-07	600
44.0	40	7.235E-08	7.814E-07	600
48.0	27	5.009E-08	5.410E-07	600
52.0	33	5.937E-08	6.412E-07	600
56.0	19	3.525E-08	3.807E-07	600

CROSSWIND INTEGRATED= 1.307E-03 SEC/SQ.M
1.412E-02 1/M

TEST BASE OCTOBER 19, 1966 1350 TO 1420 PST
FLUORESCHEIN RELEASE FROM ELEVATION OF 26M
700M ARC SAMPLER HT 1.5M U=10.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	F/U 1/SEC	DISTANCE METERS
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4.0	259	4.679E-07	5.049E-06	700
8.0	940	8.270E-07	8.936E-06	700
12.0	1601	3.042E-06	3.286E-05	700
16.0	3434	6.178E-06	6.672E-05	700
20.0	4744	8.534E-06	9.217E-05	700
24.0	3507	6.308E-06	6.812E-05	700
28.0	642	1.156E-06	1.248E-05	700
32.0	123	2.226E-07	2.404E-06	700
36.0	25	4.618E-08	5.009E-07	700

CROSSWIND INTEGRATED= 1.309E-03 SEC/SQ.M
1.413E-02 1/M

TEST 045F OCTOBER 19, 1966 1350 TO 1420 PST
 FLUORESCENT RELEASE FROM ELEVATION OF 26M
 800M ARC SAMPLER HT 1.5M U=10.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	F/D 1/SEC	DISTANCE METERS
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1.0	11	2.041E-08	2.204E-07	800
4.0	192	3.469E-07	3.707E-06	800
7.0	307	5.528E-07	5.971E-06	800
10.0	421	1.657E-06	1.789E-05	800
13.0	1806	3.321E-06	3.586E-05	800
16.0	2970	5.303E-06	5.770E-05	800
19.0	4363	7.847E-06	8.475E-05	800
22.0	4125	7.421E-06	8.014E-05	800
25.0	2289	4.119E-06	4.448E-05	800
28.0	508	9.146E-07	9.878E-06	800
31.0	410	7.384E-07	7.974E-06	800
34.0	206	4.434E-07	4.789E-06	800

CROSSWIND INTEGRATED= 1.371E-03 1.480E-02
 SEC/90.0M 1/M

TEST 045F OCTOBER 19, 1966 1350 TO 1420 PST
 FLUORESCENT RELEASE FROM ELEVATION OF 26M
 1200M ARC SAMPLER HT 1.5M U=10.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	F/D 1/SEC	DISTANCE METERS
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9.0	14	2.587E-08	2.794E-07	1200
6.0	60	1.086E-07	1.173E-06	1200
8.0	228	4.118E-07	4.400E-06	1200
10.0	303	5.403E-07	5.889E-06	1200
12.0	615	1.107E-06	1.196E-05	1200
14.0	440	1.728E-06	1.866E-05	1200
16.0	1553	2.794E-06	3.017E-05	1200
18.0	2732	4.915E-06	5.308E-05	1200
x 20.0	2499	4.096E-06	4.856E-05	1200
x 22.0	1878	3.372E-06	3.642E-05	1200
24.0	1173	2.111E-06	2.280E-05	1200
26.0	469	8.443E-07	9.119E-06	1200
28.0	156	2.818E-07	3.040E-06	1200
30.0	107	1.935E-07	2.090E-06	1200
32.0	24	4.649E-08	4.805E-07	1200

CROSSWIND INTEGRATED= 9.625E-04 1.040E-02
 SEC/90.0M 1/M

TEST 045F OCTOBER 19, 1966 1350 TO 1420 PST
 FLUORESCENT RELEASE FROM ELEVATION OF 26M
 1600M ARC SAMPLER HT 1.5M U=10.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	F/D 1/SEC	DISTANCE METERS
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2.0	8	1.449E-08	1.565E-07	1600
4.0	9	1.656E-08	1.788E-07	1600
6.0	18	3.311E-08	3.576E-07	1600
8.0	56	1.014E-07	1.095E-06	1600
10.0	118	2.132E-07	2.302E-06	1600
12.0	65	1.167E-07	1.263E-06	1600
14.0	46	8.381E-08	9.052E-07	1600
16.0	1133	2.038E-06	2.202E-05	1600
18.0	1656	2.980E-06	3.218E-05	1600
20.0	1302	2.504E-06	2.704E-05	1600
22.0	1156	2.040E-06	2.246E-05	1600
24.0	627	1.128E-06	1.215E-05	1600
26.0	237	4.263E-07	4.604E-06	1600
28.0	86	1.552E-07	1.676E-06	1600
30.0	7	1.345E-08	1.453E-07	1600
32.0	11	2.069E-08	2.235E-07	1600
34.0	8	1.449E-08	1.565E-07	1600
36.0	9	1.759E-08	1.900E-07	1600
38.0	8	1.552E-08	1.676E-07	1600
40.0	10	1.966E-08	2.123E-07	1600
42.0	11	2.069E-08	2.235E-07	1600
44.0	9	1.656E-08	1.788E-07	1600
46.0	9	1.656E-08	1.788E-07	1600
48.0	12	2.173E-08	2.347E-07	1600

CROSSWIND INTEGRATED= 6.740E-04 7.279E-03
 SEC/90.0M 1/M

UNSTABLE SERIES EXPERIMENT: 46 (U-46)
ZINC SULFIDE AND FLUORESCIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT 46. ZINC SULFIDE RESULTS ARE PRESENTED HERE. GROUND
LEVEL SAMPLING 200-1600 M ARC.

TEST 1046 OCTOBER 21, 1966 1000 TO 1030 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U=10.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/C SEC/CU.M	EU/Q 1/SG.M	DISTANCE METERS
0.0	8	1.103E-08	1.103E-07	200
4.0	5	7.351E-09	7.351E-08	200
8.0	11	1.562E-08	1.562E-07	200
12.0	6	0.000E+00	0.000E+00	200
16.0	17	2.389E-08	2.389E-07	200
20.0	15	2.022E-08	2.022E-07	200
24.0	128	1.794E-07	1.794E-06	200
28.0	573	7.719E-07	7.719E-06	200
32.0	854	1.150E-06	1.150E-05	200
36.0	1174	1.581E-06	1.581E-05	200
40.0	1499	2.019E-06	2.019E-05	200
44.0	1164	1.568E-06	1.568E-05	200
48.0	1669	2.247E-06	2.247E-05	200
52.0	1023	1.377E-06	1.377E-05	200
56.0	288	3.887E-07	3.887E-06	200
60.0	290	3.777E-07	3.777E-06	200
64.0	108	1.461E-07	1.461E-06	200
68.0	86	1.167E-07	1.167E-06	200
72.0	125	1.691E-07	1.691E-06	200
76.0	79	1.075E-07	1.075E-06	200
80.0	38	5.238E-08	5.238E-07	200
84.0	36	4.962E-08	4.962E-07	200
88.0	10	1.378E-08	1.378E-07	200

CROSSWIND INTEGRATED= 1.733E-04 1.733E-03
SEC/SG.M 1/M

TEST 1046 OCTOBER 21, 1966 1000 TO 1030 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
300M ARC SAMPLER HT 1.5M U=10.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/C SEC/CU.M	EU/Q 1/SG.M	DISTANCE METERS
12.0	5	7.351E-09	7.351E-08	300
16.0	130	1.755E-07	1.755E-06	300
20.0	702	9.455E-07	9.455E-06	300
24.0	1327	1.787E-06	1.787E-05	300
28.0	2876	3.831E-06	3.831E-05	300
32.0	3457	4.653E-06	4.653E-05	300
36.0	3102	4.176E-06	4.176E-05	300
40.0	1837	2.474E-06	2.474E-05	300
44.0	986	1.274E-06	1.274E-05	300
48.0	514	6.919E-07	6.919E-06	300
52.0	58	7.902E-08	7.902E-07	300
56.0	177	2.389E-07	2.389E-06	300
60.0	55	7.535E-08	7.535E-07	300
64.0	68	9.005E-08	9.005E-07	300
68.0	90	1.213E-07	1.213E-06	300
72.0	24	3.308E-08	3.308E-07	300

CROSSWIND INTEGRATED= 4.326E-04 4.326E-03
SEC/SG.M 1/M

TEST 1046 OCTOBER 21, 1966 1000 TO 1030 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U=10.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/C SEC/CU.M	EU/Q 1/SG.M	DISTANCE METERS
14.0	43	5.789E-08	5.789E-07	400
18.0	337	4.588E-07	4.588E-06	400
22.0	1241	1.671E-06	1.671E-05	400
26.0	2920	3.931E-06	3.931E-05	400
30.0	5414	7.288E-06	7.288E-05	400
34.0	3519	4.737E-06	4.737E-05	400
38.0	3486	4.693E-06	4.693E-05	400
42.0	2324	3.129E-06	3.129E-05	400
46.0	910	1.226E-06	1.226E-05	400
50.0	249	3.896E-07	3.896E-06	400
54.0	153	2.067E-07	2.067E-06	400
58.0	127	1.718E-07	1.718E-06	400
62.0	38	5.238E-08	5.238E-07	400
66.0	111	1.507E-07	1.507E-06	400
70.0	40	5.513E-08	5.513E-07	400

CROSSWIND INTEGRATED= 7.878E-04 7.878E-03
SEC/SG.M 1/M

TEST 1046 OCTOBER 21, 1966 1000 TO 1030 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
500M ARC SAMPLER HT 1.5M U=10.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/C SEC/CU.M	EU/Q 1/SG.M	DISTANCE METERS
16.0	229	3.087E-07	3.087E-06	500
20.0	482	6.487E-07	6.487E-06	500
24.0	2509	3.377E-06	3.377E-05	500
28.0	4674	6.561E-06	6.561E-05	500
32.0	6268	8.436E-06	8.436E-05	500
36.0	3968	5.341E-06	5.341E-05	500
40.0	3141	4.228E-06	4.228E-05	500
44.0	2123	2.859E-06	2.859E-05	500
48.0	884	1.190E-06	1.190E-05	500
52.0	133	1.792E-07	1.792E-06	500
56.0	185	2.499E-07	2.499E-06	500
60.0	40	5.513E-08	5.513E-07	500
64.0	76	1.029E-07	1.029E-06	500
68.0	90	1.213E-07	1.213E-06	500

CROSSWIND INTEGRATED= 1.175E-03 1.175E-02
SEC/SG.M 1/M

TEST #46 OCTOBER 21, 1966 1000 TO 1030 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
600M ARC SAMPLER HT 1.5M U=10.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
14.0	443	5.964E-07	5.964E-06	600
22.0	1342	1.807E-06	1.807E-05	600
26.0	1422	2.453E-06	2.453E-05	600
30.0	6935	8.124E-06	8.124E-05	600
34.0	4452	5.993E-06	5.993E-05	600
38.0	2781	3.744E-06	3.744E-05	600
42.0	2197	2.958E-06	2.958E-05	600
46.0	1036	1.395E-06	1.395E-05	600
50.0	165	2.224E-07	2.224E-06	600
54.0	134	1.810E-07	1.810E-06	600
58.0	59	7.994E-08	7.994E-07	600
64.0	96	1.305E-07	1.305E-06	600
70.0	46	6.244E-08	6.244E-07	600

CROSS*IND INTEGRATED= 1.168E-03
SEC/SQ.M 1/M

TEST #46 OCTOBER 21, 1966 1000 TO 1030 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U=10.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
13.0	5	7.351E-09	7.351E-08	800
16.0	34	4.686E-08	4.686E-07	800
19.0	656	8.757E-07	8.757E-06	800
22.0	614	8.270E-07	8.270E-06	800
24.0	1262	1.699E-06	1.699E-05	800
28.0	2201	2.962E-06	2.962E-05	800
31.0	2524	3.397E-06	3.397E-05	800
34.0	2503	3.370E-06	3.370E-05	800
37.0	2640	3.554E-06	3.554E-05	800
40.0	772	1.040E-06	1.040E-05	800
43.0	622	8.380E-07	8.380E-06	800
46.0	326	4.392E-07	4.392E-06	800
49.0	124	1.672E-07	1.672E-06	800
52.0	88	1.195E-07	1.195E-06	800
55.0	54	7.351E-08	7.351E-07	800
58.0	47	6.432E-08	6.432E-07	800
61.0	66	8.913E-08	8.913E-07	800
64.0	8	1.195E-08	1.195E-07	800
67.0	65	8.821E-08	8.821E-07	800
70.0	32	4.319E-08	4.319E-07	800
73.0	3	4.594E-09	4.594E-08	800
76.0	8	1.195E-08	1.195E-07	800

CROSS*IND INTEGRATED= 8.265E-04
SEC/SQ.M 1/M

TEST #46 OCTOBER 21, 1966 1000 TO 1030 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U=10.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
16.0	13	1.841E-08	1.841E-07	1200
18.0	31	4.232E-08	4.232E-07	1200
20.0	109	1.469E-07	1.469E-06	1200
22.0	251	3.109E-07	3.109E-06	1200
24.0	467	6.289E-07	6.289E-06	1200
26.0	620	8.352E-07	8.352E-06	1200
28.0	1020	1.374E-06	1.374E-05	1200
30.0	879	1.184E-06	1.184E-05	1200
32.0	1072	1.444E-06	1.444E-05	1200
34.0	1180	1.589E-06	1.589E-05	1200
36.0	1547	2.083E-06	2.083E-05	1200
38.0	1166	1.570E-06	1.570E-05	1200
40.0	615	1.098E-06	1.098E-05	1200
42.0	724	9.750E-07	9.750E-06	1200
44.0	357	4.814E-07	4.814E-06	1200
46.0	262	2.727E-07	2.727E-06	1200
48.0	147	1.987E-07	1.987E-06	1200
50.0	98	1.322E-07	1.322E-06	1200
52.0	43	5.819E-08	5.819E-07	1200
54.0	21	2.939E-08	2.939E-07	1200
56.0	52	7.112E-08	7.112E-07	1200
58.0	38	5.231E-08	5.231E-07	1200
60.0	24	3.233E-08	3.233E-07	1200
62.0	44	5.936E-08	5.936E-07	1200
64.0	18	2.527E-08	2.527E-07	1200
66.0	11	1.587E-08	1.587E-07	1200
68.0	4	5.877E-09	5.877E-08	1200

CROSS*IND INTEGRATED= 6.172E-04
SEC/SQ.M 1/M

TEST #46 OCTOBER 21, 1966 1000 TO 1030 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U=10.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
2.0	26	3.526E-08	3.526E-07	1600
4.0	56	7.582E-08	7.582E-07	1600
6.0	4	6.465E-09	6.465E-08	1600
8.0	10	1.469E-08	1.469E-07	1600
10.0	8	1.175E-08	1.175E-07	1600
14.0	7	9.991E-09	9.991E-08	1600
16.0	28	3.879E-08	3.879E-07	1600
18.0	7	9.991E-09	9.991E-08	1600
20.0	51	6.994E-08	6.994E-07	1600
22.0	235	3.174E-07	3.174E-06	1600
24.0	248	3.473E-07	3.473E-06	1600
26.0	180	2.433E-07	2.433E-06	1600
28.0	200	2.692E-07	2.692E-06	1600
30.0	45	6.171E-08	6.171E-07	1600
32.0	318	4.285E-07	4.285E-06	1600
34.0	624	8.410E-07	8.410E-06	1600
36.0	440	6.524E-07	6.524E-06	1600
38.0	256	3.368E-07	3.368E-06	1600
40.0	414	5.578E-07	5.578E-06	1600
42.0	214	2.886E-07	2.886E-06	1600
44.0	146	1.969E-07	1.969E-06	1600
46.0	58	7.876E-08	7.876E-07	1600
48.0	27	3.703E-08	3.703E-07	1600
50.0	17	2.410E-08	2.410E-07	1600
52.0	27	3.761E-08	3.761E-07	1600
54.0	75	1.017E-07	1.017E-06	1600
56.0	15	2.057E-08	2.057E-07	1600
58.0	23	3.115E-08	3.115E-07	1600
60.0	33	4.526E-08	4.526E-07	1600
62.0	49	6.700E-08	6.700E-07	1600
64.0	17	2.410E-08	2.410E-07	1600
66.0	62	8.346E-08	8.346E-07	1600

CROSS*IND INTEGRATED= 3.051E-04
SEC/SQ.M 1/M

UNSTABLE SERIES EXPERIMENT: 46F (U-46F)
ZINC SULFIDE AND FLUORESCIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT 46. FLUORESCIN RESULTS ARE PRESENTED HERE. GROUND
LEVEL SAMPLING 200-1600 M ARC.

TEST U46F OCTOBER 21, 1966 1000 TO 1030 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 6.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
10.0	30	4.511E-08	3.112E-07	200
14.0	1031	1.504E-06	1.037E-05	200
18.0	10624	1.549E-05	1.069E-04	200
22.0	33419	4.872E-05	3.361E-04	200
26.0	48067	7.007E-05	4.835E-04	200
30.0	47138	6.872E-05	4.741E-04	200
34.0	44673	9.428E-05	6.505E-04	200
38.0	62095	9.052E-05	6.246E-04	200
42.0	25683	3.744E-05	2.583E-04	200
46.0	21970	3.203E-05	2.210E-04	200
50.0	16503	2.406E-05	1.660E-04	200
54.0	8623	1.257E-05	8.673E-05	200
58.0	1382	2.015E-06	1.390E-05	200
62.0	1732	2.526E-06	1.743E-05	200
66.0	2372	3.458E-06	2.386E-05	200
70.0	1361	1.985E-06	1.369E-05	200
74.0	267	3.894E-07	2.687E-06	200
78.0	126	1.849E-07	1.276E-06	200

CROSSWIND INTEGRATED= 7.045E-03 SEC/SQ.M
4.875E-02 1/M

TEST U46F OCTOBER 21, 1966 1000 TO 1030 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
300M ARC SAMPLER HT 1.5M U= 6.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
12.0	175	2.556E-07	1.764E-06	300
16.0	1547	2.255E-06	1.556E-05	300
20.0	7034	1.025E-05	7.076E-05	300
24.0	17328	2.526E-05	1.743E-04	300
28.0	19391	2.827E-05	1.950E-04	300
32.0	21557	3.143E-05	2.168E-04	300
36.0	24033	3.503E-05	2.417E-04	300
40.0	17947	2.616E-05	1.805E-04	300
44.0	11036	1.609E-05	1.110E-04	300
48.0	9912	1.405E-05	9.970E-05	300
52.0	4672	6.811E-06	4.700E-05	300
56.0	1014	1.480E-06	1.021E-05	300
60.0	834	1.216E-06	8.393E-06	300
64.0	763	1.113E-06	7.677E-06	300
68.0	521	7.608E-07	5.250E-06	300
72.0	159	2.331E-07	1.608E-06	300
76.0	48	7.067E-08	4.876E-07	300
80.0	11	1.654E-08	1.141E-07	300

CROSSWIND INTEGRATED= 4.213E-03 SEC/SQ.M
2.907E-02 1/M

TEST U46F OCTOBER 21, 1966 1000 TO 1030 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
400M ARC SAMPLER HT 1.5M U= 6.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
6.0	6	9.022E-09	6.225E-08	400
10.0	13	1.955E-08	1.349E-07	400
14.0	348	5.082E-07	3.507E-06	400
18.0	1918	2.797E-06	1.930E-05	400
22.0	6952	1.013E-05	6.993E-05	400
26.0	13924	2.030E-05	1.401E-04	400
30.0	17741	2.586E-05	1.784E-04	400
34.0	16194	2.361E-05	1.629E-04	400
38.0	16194	2.361E-05	1.629E-04	400
42.0	9345	1.362E-05	9.400E-05	400
46.0	6714	9.789E-06	6.754E-05	400
50.0	3125	4.556E-06	3.144E-05	400
54.0	949	1.385E-06	9.555E-06	400
58.0	536	7.819E-07	5.395E-06	400
62.0	307	4.481E-07	3.092E-06	400
66.0	222	3.248E-07	2.241E-06	400
70.0	140	2.045E-07	1.411E-06	400
74.0	6	9.022E-09	6.225E-08	400
78.0	3	4.511E-09	3.112E-08	400

CROSSWIND INTEGRATED= 3.853E-03 SEC/SQ.M
2.658E-02 1/M

TEST U46F OCTOBER 21, 1966 1000 TO 1030 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
500M ARC SAMPLER HT 1.5M U= 6.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
8.0	5	7.514E-09	5.187E-08	500
12.0	5	7.514E-09	5.187E-08	500
16.0	550	8.029E-07	5.540E-06	500
20.0	949	1.385E-06	9.555E-06	500
24.0	6312	9.202E-06	6.349E-05	500
28.0	19314	1.504E-05	1.037E-04	500
32.0	11036	1.609E-05	1.110E-04	500
36.0	9592	1.398E-05	9.649E-05	500
40.0	7591	1.107E-05	7.636E-05	500
44.0	4744	6.917E-06	4.772E-05	500
48.0	3125	4.556E-06	3.144E-05	500
52.0	763	1.113E-06	7.677E-06	500
56.0	466	6.796E-07	4.689E-06	500
60.0	233	3.398E-07	2.345E-06	500
64.0	152	2.225E-07	1.535E-06	500
68.0	166	2.421E-07	1.670E-06	500
72.0	127	1.864E-07	1.286E-06	500
76.0	4	6.014E-09	4.150E-08	500

CROSSWIND INTEGRATED= 2.857E-03 SEC/SQ.M
1.971E-02 1/M

TEST U46F OCTOBER 21, 1966 1000 TO 1030 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
600M ARC SAMPLER HT 1.5M U= 6.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
10.0	5	7.51AE-09	5.187E-08	600
19.0	11	1.65AE-08	1.141E-07	600
18.0	656	9.563E-07	6.598E-06	600
22.0	2372	3.458E-06	2.386E-05	600
26.0	3434	5.007E-06	3.455E-05	600
30.0	7591	1.107E-05	7.636E-05	600
34.0	6849	9.984E-06	6.889E-05	600
38.0	6003	8.751E-06	6.038E-05	600
42.0	3816	5.563E-06	3.839E-05	600
46.0	3548	5.172E-06	3.569E-05	600
50.0	748	1.092E-06	7.532E-06	600
54.0	543	7.924E-07	5.468E-06	600
58.0	185	2.707E-07	1.867E-06	600
62.0	87	1.27AE-07	8.819E-07	600
66.0	88	1.293E-07	8.922E-07	600
70.0	68	9.924E-08	6.847E-07	600
74.0	5	7.51AE-09	5.187E-08	600
78.0	5	7.51AE-09	5.187E-08	600

CROSSWIND INTEGRATED= 2.200E-03 SEC/SQ.M 1.518E-02 1/M

TEST U46F OCTOBER 21, 1966 1000 TO 1030 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 6.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
7.0	7	1.053E-08	7.262E-08	800
10.0	7	1.053E-08	7.262E-08	800
13.0	5	7.51AE-09	5.187E-08	800
16.0	355	5.187E-07	3.579E-06	800
19.0	543	7.924E-07	5.468E-06	800
22.0	949	1.385E-06	9.555E-06	800
25.0	1774	2.5A6E-06	1.784E-05	800
28.0	2331	3.398E-06	2.345E-05	800
31.0	2970	4.330E-06	2.988E-05	800
34.0	3434	5.007E-06	3.455E-05	800
37.0	3589	5.233E-06	3.610E-05	800
40.0	635	9.262E-07	6.391E-06	800
43.0	712	1.039E-06	7.169E-06	800
46.0	550	8.029E-07	5.540E-06	800
49.0	383	5.593E-07	3.859E-06	800
52.0	267	3.894E-07	2.687E-06	800
55.0	162	2.376E-07	1.639E-06	800
58.0	83	1.218E-07	8.404E-07	800
61.0	63	9.322E-08	6.432E-07	800
64.0	30	4.511E-08	3.112E-07	800
67.0	53	7.819E-08	5.395E-07	800
70.0	49	7.217E-08	4.980E-07	800
73.0	6	9.022E-09	6.225E-08	800
76.0	5	7.51AE-09	5.187E-08	800
79.0	4	6.014E-09	4.150E-08	800
82.0	4	6.014E-09	4.150E-08	800

CROSSWIND INTEGRATED= 1.159E-03 SEC/SQ.M 7.998E-03 1/M

TEST U46F OCTOBER 21, 1966 1000 TO 1030 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
1200M ARC SAMPLER HT 1.5M U= 6.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
12.0	4	5.871E-09	4.051E-08	1200
14.0	2	4.193E-09	2.893E-08	1200
16.0	5	7.548E-09	5.208E-08	1200
18.0	29	4.361E-08	3.009E-07	1200
20.0	117	1.719E-07	1.186E-06	1200
22.0	249	4.227E-07	2.916E-06	1200
24.0	549	8.009E-07	5.526E-06	1200
26.0	644	9.393E-07	6.481E-06	1200
28.0	862	1.258E-06	8.680E-06	1200
30.0	1029	1.501E-06	1.036E-05	1200
32.0	1133	1.652E-06	1.140E-05	1200
34.0	1196	1.744E-06	1.204E-05	1200
36.0	1467	2.139E-06	1.476E-05	1200
38.0	1236	1.803E-06	1.244E-05	1200
40.0	874	1.275E-06	8.796E-06	1200
42.0	707	1.032E-06	7.118E-06	1200
44.0	477	6.961E-07	4.803E-06	1200
46.0	377	5.510E-07	3.802E-06	1200
48.0	303	4.420E-07	3.050E-06	1200
50.0	241	3.514E-07	2.425E-06	1200
52.0	146	2.130E-07	1.470E-06	1200
54.0	59	8.722E-08	6.018E-07	1200
56.0	85	1.241E-07	8.564E-07	1200
58.0	70	1.032E-07	7.118E-07	1200
60.0	54	7.883E-08	5.439E-07	1200
62.0	36	5.284E-08	3.646E-07	1200
64.0	31	4.529E-08	3.125E-07	1200
66.0	20	3.019E-08	2.083E-07	1200
68.0	7	1.090E-08	7.523E-08	1200

CROSSWIND INTEGRATED= 7.366E-04 SEC/SQ.M 5.083E-03 1/M

TEST U46F OCTOBER 21, 1966 1000 TO 1030 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 6.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
18.0	10	1.593E-08	1.099E-07	1600
20.0	6	1.006E-08	6.944E-08	1600
22.0	247	4.193E-07	2.893E-06	1600
24.0	318	4.646E-07	3.206E-06	1600
26.0	275	4.017E-07	2.772E-06	1600
28.0	377	5.510E-07	3.802E-06	1600
30.0	29	4.277E-08	2.951E-07	1600
32.0	592	8.638E-07	5.960E-06	1600
34.0	730	1.065E-06	7.349E-06	1600
36.0	641	9.644E-07	6.655E-06	1600
38.0	592	8.638E-07	5.960E-06	1600
40.0	326	4.764E-07	3.287E-06	1600
42.0	318	4.646E-07	3.206E-06	1600
44.0	221	3.229E-07	2.228E-06	1600
46.0	124	1.811E-07	1.250E-06	1600
48.0	130	1.895E-07	1.308E-06	1600
50.0	45	6.625E-08	4.571E-07	1600
52.0	40	5.954E-08	4.109E-07	1600
54.0	43	6.374E-08	4.398E-07	1600
56.0	39	5.787E-08	3.993E-07	1600
58.0	42	6.206E-08	4.282E-07	1600
60.0	23	3.355E-08	2.315E-07	1600
62.0	17	2.600E-08	1.794E-07	1600
64.0	4	6.709E-09	4.629E-08	1600
66.0	1	2.516E-09	1.736E-08	1600
68.0	8	1.174E-08	8.101E-08	1600

CROSSWIND INTEGRATED= 4.293E-04 SEC/SQ.M 2.962E-03 1/M

UNSTABLE SERIES EXPERIMENT: 47 (U-47)
ZINC SULFIDE AND FLUORESCHEIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT 47. ZINC SULFIDE RESULTS ARE PRESENTED HERE. GROUND
LEVEL SAMPLING 100-1600 M ARC.

TEST 047 NOVEMBER 16, 1966 1420 TO 1450 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
100M ARC SAMPLER HT 1.5M U= 8.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
44.0	14	2.145E-08	1.775E-07	100
48.0	5	8.419E-09	6.903E-08	100
52.0	46	9.621E-08	7.890E-07	100
56.0	368	5.376E-07	4.408E-06	100
60.0	25	3.728E-08	3.057E-07	100
64.0	9	1.443E-08	1.183E-07	100
68.0	25	3.728E-08	3.057E-07	100
72.0	27	3.969E-08	3.254E-07	100
76.0	12	1.804E-08	1.479E-07	100
80.0	10	1.563E-08	1.282E-07	100

CROSSWIND INTEGRATED= 5.74PE-06 4.730E-05
SEC/SQ.M 1/M

TEST 047 NOVEMBER 16, 1966 1420 TO 1450 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 8.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
34.0	27	3.969E-08	3.254E-07	200
42.0	367	5.364E-07	4.398E-06	200
46.0	377	5.508E-07	4.517E-06	200
50.0	350	5.111E-07	4.191E-06	200
54.0	749	1.092E-06	8.955E-06	200
58.0	952	1.388E-06	1.138E-05	200
62.0	2029	2.959E-06	2.426E-05	200
66.0	2716	3.960E-06	3.248E-05	200
70.0	2324	3.389E-06	2.779E-05	200
74.0	1515	2.209E-06	1.812E-05	200
78.0	396	5.773E-07	4.730E-06	200
82.0	8	1.203E-08	9.862E-08	200
86.0	51	7.957E-08	6.114E-07	200
90.0	13	1.924E-08	1.578E-07	200

CROSSWIND INTEGRATED= 2.41AE-04 1.983E-03
SEC/SQ.M 1/M

TEST 047 NOVEMBER 16, 1966 1420 TO 1450 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
300M ARC SAMPLER HT 1.5M U= 8.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
40.0	308	4.478E-07	3.688E-06	300
44.0	610	8.960E-07	7.298E-06	300
48.0	731	1.067E-06	8.748E-06	300
52.0	655	9.561E-07	7.840E-06	300
56.0	115	1.644E-07	1.351E-06	300
60.0	1347	2.023E-06	1.659E-05	300
64.0	3709	5.407E-06	4.434E-05	300
68.0	5238	7.636E-06	6.261E-05	300
72.0	4368	6.366E-06	5.220E-05	300
76.0	1672	2.438E-06	1.999E-05	300
80.0	702	1.023E-06	8.393E-06	300
84.0	344	5.027E-07	4.122E-06	300
88.0	174	2.538E-07	2.081E-06	300
92.0	10	1.563E-08	1.282E-07	300

CROSSWIND INTEGRATED= 5.114E-04 5.014E-03
SEC/SQ.M 1/M

TEST 047 NOVEMBER 16, 1966 1420 TO 1450 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 8.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
42.0	331	4.835E-07	3.965E-06	400
46.0	1015	1.480E-06	1.214E-05	400
50.0	454	6.651E-07	5.454E-06	400
54.0	212	3.103E-07	2.544E-06	400
58.0	307	4.488E-07	3.679E-06	400
62.0	1791	2.612E-06	2.142E-05	400
66.0	3401	4.959E-06	4.066E-05	400
70.0	3972	5.791E-06	4.749E-05	400
74.0	3222	4.698E-06	3.852E-05	400
78.0	1089	1.588E-06	1.302E-05	400
82.0	547	7.974E-07	6.538E-06	400
86.0	249	3.632E-07	2.978E-06	400
90.0	53	7.817E-08	6.410E-07	400

CROSSWIND INTEGRATED= 6.778E-04 5.558E-03
SEC/SQ.M 1/M

TEST 047 NOVEMBER 16, 1966 1420 TO 1450 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
500M ARC SAMPLER HT 1.5M U= 8.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
44.0	744	1.085E-06	8.895E-06	500
48.0	832	1.214E-06	9.951E-06	500
52.0	465	6.743E-07	5.562E-06	500
56.0	282	4.113E-07	3.373E-06	500
60.0	735	1.073E-06	8.797E-06	500
64.0	2244	3.277E-06	2.683E-05	500
68.0	3399	4.956E-06	4.064E-05	500
72.0	4041	5.892E-06	4.831E-05	500
76.0	1818	2.360E-06	1.935E-05	500
80.0	762	1.141E-06	9.359E-06	500
84.0	251	3.688E-07	3.008E-06	500
88.0	98	1.431E-07	1.174E-06	500

CROSSWIND INTEGRATED= 7.886E-04 6.467E-03
SEC/SQ.M 1/M

TEST 047 NOVEMBER 16, 1966 1420 TO 1450 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
600M ARC SAMPLER HT 1.5M U= 8.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
42.0	134	1.960E-07	1.608E-06	600
46.0	1056	1.541E-06	1.263E-05	600
50.0	664	9.694E-07	7.949E-06	600
54.0	314	4.582E-07	3.757E-06	600
58.0	217	3.175E-07	2.604E-06	600
62.0	1250	1.823E-06	1.495E-05	600
66.0	2226	3.246E-06	2.662E-05	600
70.0	3273	4.772E-06	3.913E-05	600
74.0	2856	4.164E-06	3.414E-05	600
78.0	1042	1.520E-06	1.247E-05	600
82.0	177	2.586E-07	2.120E-06	600
86.0	146	2.129E-07	1.746E-06	600

CROSSWIND INTEGRATED= 8.159E-04 6.691E-03
SEC/SQ.M 1/M

TEST U47 NOVEMBER 16, 1966 1420 TO 1450 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
700M ARC SAMPLER HT 1.5M U= 8.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/W SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
44.0	307	4.444E-07	3.679E-06	700
48.0	698	8.876E-07	7.278E-06	700
52.0	556	8.118E-07	6.657E-06	700
56.0	340	4.967E-07	4.073E-06	700
60.0	468	6.811E-07	5.602E-06	700
64.0	1847	2.693E-06	2.208E-05	700
68.0	4025	5.868E-06	4.812E-05	700
72.0	3597	5.245E-06	4.301E-05	700
76.0	1653	2.701E-06	2.215E-05	700
80.0	331	4.835E-07	3.965E-06	700
84.0	191	1.479E-07	1.213E-06	700
88.0	9	1.443E-08	1.183E-07	700

CROSSWIND INTEGRATED= 1.001E-03 SEC/SQ.M
8.207E-03 1/M

TEST U47 NOVEMBER 16, 1966 1420 TO 1450 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 8.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/W SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
44.0	78	1.143E-07	9.369E-07	800
48.0	785	1.145E-06	9.389E-06	800
49.0	394	5.749E-07	4.714E-06	800
52.0	341	4.979E-07	4.083E-06	800
55.0	282	4.175E-07	3.383E-06	800
58.0	152	2.225E-07	1.824E-06	800
61.0	829	1.209E-06	9.911E-06	800
64.0	1349	2.025E-06	1.661E-05	800
67.0	2377	3.466E-06	2.842E-05	800
70.0	4503	6.565E-06	5.384E-05	800
73.0	2448	3.570E-06	2.927E-05	800
76.0	1736	2.532E-06	2.076E-05	800
79.0	254	3.716E-07	3.047E-06	800
82.0	106	1.551E-07	1.272E-06	800
85.0	31	4.570E-08	3.748E-07	800

CROSSWIND INTEGRATED= 9.595E-04 SEC/SQ.M
7.868E-03 1/M

TEST U47 NOVEMBER 16, 1966 1420 TO 1450 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 8.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/W SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
46.0	15	2.249E-08	1.844E-07	1200
48.0	138	2.017E-07	1.654E-06	1200
50.0	132	1.937E-07	1.589E-06	1200
52.0	43	6.385E-08	5.236E-07	1200
54.0	112	1.640E-07	1.345E-06	1200
56.0	79	1.161E-07	9.520E-07	1200
58.0	100	1.466E-07	1.202E-06	1200
60.0	139	2.039E-07	1.672E-06	1200
62.0	169	2.474E-07	2.029E-06	1200
64.0	390	4.375E-07	3.588E-06	1200
66.0	634	9.251E-07	7.586E-06	1200
Z 68.0	24	3.555E-08	2.915E-07	1200
Z 70.0	56	8.199E-08	6.723E-07	1200
72.0	1510	2.201E-06	1.805E-05	1200
74.0	753	1.094E-06	9.002E-06	1200
76.0	26	3.918E-08	3.213E-07	1200
78.0	3	5.805E-09	4.760E-08	1200
80.0	56	8.272E-08	6.783E-07	1200
82.0	11	1.669E-08	1.368E-07	1200
84.0	12	1.886E-08	1.547E-07	1200
86.0	12	1.886E-08	1.547E-07	1200

CROSSWIND INTEGRATED= 2.648E-04 SEC/SQ.M
2.171E-03 1/M

TEST U47 NOVEMBER 16, 1966 1420 TO 1450 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 8.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/W SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
48.0	18	2.685E-08	2.201E-07	1600
50.0	126	2.859E-07	2.344E-06	1600
52.0	204	3.055E-07	2.505E-06	1600
54.0	169	2.467E-07	2.023E-06	1600
56.0	58	4.489E-08	6.961E-07	1600
58.0	45	6.675E-08	5.474E-07	1600
60.0	79	1.161E-07	9.520E-07	1600
62.0	141	2.068E-07	1.696E-06	1600
64.0	280	4.085E-07	3.350E-06	1600
66.0	614	8.961E-07	7.348E-06	1600
68.0	874	1.274E-06	1.045E-05	1600
70.0	792	1.156E-06	9.478E-06	1600
72.0	904	1.319E-06	1.082E-05	1600
74.0	761	1.110E-06	9.103E-06	1600
76.0	414	6.044E-07	4.956E-06	1600
78.0	33	4.934E-08	4.046E-07	1600
80.0	52	7.691E-08	6.307E-07	1600
82.0	5	9.707E-09	7.140E-08	1600

CROSSWIND INTEGRATED= 4.603E-04 SEC/SQ.M
3.775E-03 1/M

UNSTABLE SERIES EXPERIMENT: 47F (U-47F)
ZINC SULFIDE AND FLUORESCIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT 47. FLUORESCIN RESULTS ARE PRESENTED HERE. GROUND
LEVEL SAMPLING 100-1600 M ARC.

TFST U47F NOVEMBER 16, 1966 1420 TO 1450 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
100M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
24.0	23	3.458E-08	1.591E-07	100
28.0	28	4.210E-08	1.937E-07	100
32.0	1547	2.255E-06	1.037E-05	100
36.0	8870	1.293E-05	5.948E-05	100
40.0	41156	5.999E-05	2.760E-04	100
44.0	103148	1.504E-04	6.917E-04	100
48.0	141312	2.060E-04	9.476E-04	100
52.0	112431	1.639E-04	7.539E-04	100
56.0	103148	1.504E-04	6.917E-04	100
60.0	167099	2.436E-04	1.120E-03	100
64.0	363041	5.293E-04	2.435E-03	100
68.0	422907	6.165E-04	2.836E-03	100
72.0	442505	6.451E-04	2.967E-03	100
76.0	336262	4.902E-04	2.255E-03	100
80.0	145438	2.120E-04	9.752E-04	100
84.0	37649	5.488E-05	2.525E-04	100
88.0	6281	9.157E-06	4.212E-05	100
92.0	1774	2.586E-06	1.190E-05	100
96.0	273	3.985E-07	1.833E-06	100
100.0	38	5.563E-08	2.559E-07	100

CROSSWIND INTEGRATED= 2.478E-02 SEC/SQ.M
1.140E-01 1/M

TEST U47F NOVEMBER 16, 1966 1420 TO 1450 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
26.0	11	1.654E-08	7.608E-08	200
30.0	13	1.955E-08	8.992E-08	200
34.0	168	2.451E-07	1.127E-06	200
38.0	5848	8.526E-06	3.922E-05	200
42.0	23208	3.393E-05	1.556E-04	200
46.0	30016	4.376E-05	2.013E-04	200
50.0	24858	3.624E-05	1.667E-04	200
54.0	22176	3.233E-05	1.487E-04	200
58.0	22176	3.233E-05	1.487E-04	200
62.0	46313	6.751E-05	3.106E-04	200
66.0	128935	1.880E-04	8.646E-04	200
70.0	127903	1.864E-04	8.577E-04	200
74.0	139249	2.030E-04	9.337E-04	200
78.0	53327	7.774E-05	3.576E-04	200
82.0	3166	4.616E-06	2.123E-05	200
86.0	4899	7.142E-06	3.285E-05	200
90.0	1144	1.669E-06	7.677E-06	200
94.0	8	1.203E-08	5.533E-08	200
98.0	7	1.053E-08	4.842E-08	200
102.0	5	7.518E-09	3.458E-08	200
106.0	4	6.014E-09	2.767E-08	200

CROSSWIND INTEGRATED= 1.289E-02 SEC/SQ.M
5.931E-02 1/M

TFST U47F NOVEMBER 16, 1966 1420 TO 1450 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
300M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
32.0	3	4.511E-09	2.075E-08	300
36.0	259	3.789E-07	1.743E-06	300
40.0	4827	7.037E-06	3.237E-05	300
44.0	12480	1.819E-05	8.369E-05	300
48.0	11655	1.699E-05	7.816E-05	300
52.0	11449	1.669E-05	7.677E-05	300
56.0	5023	7.323E-06	3.368E-05	300
60.0	9592	1.398E-05	6.432E-05	300
64.0	47654	6.947E-05	3.195E-04	300
68.0	44147	6.435E-05	2.960E-04	300
72.0	48067	7.007E-05	3.223E-04	300
76.0	34038	4.962E-05	2.282E-04	300
80.0	8705	1.269E-05	5.838E-05	300
84.0	3971	5.789E-06	2.663E-05	300
88.0	1382	2.015E-06	9.268E-06	300
92.0	103	1.504E-07	6.917E-07	300
96.0	4	6.014E-09	2.767E-08	300
100.0	3	4.511E-09	2.075E-08	300
104.0	3	4.511E-09	2.075E-08	300

CROSSWIND INTEGRATED= 7.430E-03 SEC/SQ.M
3.418E-02 1/M

TEST U47F NOVEMBER 16, 1966 1420 TO 1450 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
400M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
34.0	3	4.511E-09	2.075E-08	400
38.0	322	4.706E-07	2.165E-06	400
42.0	4435	6.466E-06	2.974E-05	400
46.0	7901	1.152E-05	5.298E-05	400
50.0	6085	8.871E-06	4.081E-05	400
54.0	4590	6.691E-06	3.078E-05	400
58.0	3207	4.676E-06	2.151E-05	400
62.0	9995	1.457E-05	6.702E-05	400
66.0	25683	3.744E-05	1.722E-04	400
70.0	31047	4.526E-05	2.082E-04	400
74.0	25683	3.744E-05	1.722E-04	400
78.0	9345	1.362E-05	6.266E-05	400
82.0	2826	4.120E-06	1.895E-05	400
86.0	1186	1.729E-06	7.954E-06	400
90.0	81	1.188E-07	5.464E-07	400
94.0	3	4.511E-09	2.075E-08	400

CROSSWIND INTEGRATED= 5.390E-03 SEC/SQ.M
2.479E-02 1/M

TEST U47F NOVEMBER 16, 1966 1420 TO 1450 PST
 FLUORESCIN RELEASE FROM ELEVATION OF 2M
 500M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
32.0	4	6.014E-09	2.767E-08	500
36.0	11	1.654E-08	7.608E-08	500
40.0	335	4.887E-07	2.248E-06	500
44.0	5941	8.661E-06	3.984E-05	500
48.0	2104	3.067E-06	1.411E-05	500
52.0	4229	6.165E-06	2.836E-05	500
56.0	1475	2.150E-06	9.891E-06	500
60.0	2857	4.165E-06	1.916E-05	500
64.0	9995	1.457E-05	6.702E-05	500
68.0	19391	2.827E-05	1.300E-04	500
72.0	19907	2.902E-05	1.335E-04	500
76.0	10933	1.594E-05	7.332E-05	500
80.0	2970	4.330E-06	1.992E-05	500
84.0	1475	2.150E-06	9.891E-06	500
88.0	166	2.421E-07	1.114E-06	500
92.0	5	7.518E-09	3.458E-08	500
96.0	4	6.014E-09	2.767E-08	500
100.0	7	1.053E-08	4.842E-08	500

CROSSWIND INTEGRATED= 4.163E-03
 SEC/SQ.M 1.915E-02
 1/M

TEST U47F NOVEMBER 16, 1966 1420 TO 1450 PST
 FLUORESCIN RELEASE FROM ELEVATION OF 2M
 700M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
32.0	5	7.518E-09	3.458E-08	700
36.0	5	7.518E-09	3.458E-08	700
40.0	11	1.654E-08	7.608E-08	700
44.0	1640	2.421E-06	1.114E-05	700
48.0	763	1.113E-06	5.118E-06	700
52.0	2032	2.962E-06	1.363E-05	700
56.0	985	1.436E-06	6.605E-06	700
60.0	834	1.216E-06	5.596E-06	700
64.0	3341	4.872E-06	2.241E-05	700
68.0	11036	1.609E-05	7.401E-05	700
72.0	8220	1.198E-05	5.513E-05	700
76.0	5136	7.488E-06	3.444E-05	700
80.0	1433	2.090E-06	9.614E-06	700
84.0	314	4.586E-07	2.110E-06	700
88.0	12	1.804E-08	8.300E-08	700
92.0	3	4.511E-09	2.075E-08	700

CROSSWIND INTEGRATED= 2.550E-03
 SEC/SQ.M 1.173E-02
 1/M

TEST U47F NOVEMBER 16, 1966 1420 TO 1450 PST
 FLUORESCIN RELEASE FROM ELEVATION OF 2M
 600M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
30.0	9	1.353E-08	6.225E-08	600
34.0	7	1.053E-08	4.842E-08	600
38.0	36	5.263E-08	2.421E-07	600
42.0	1330	1.948E-06	8.922E-06	600
46.0	2743	4.000E-06	1.840E-05	600
50.0	1464	2.135E-06	9.822E-06	600
54.0	1763	2.571E-06	1.183E-05	600
58.0	770	1.123E-06	5.167E-06	600
62.0	4548	6.631E-06	3.050E-05	600
66.0	10624	1.549E-05	7.124E-05	600
70.0	13202	1.929E-05	8.853E-05	600
74.0	8623	1.257E-05	5.782E-05	600
78.0	1744	5.458E-06	2.511E-05	600
82.0	1041	1.519E-06	6.986E-06	600
86.0	184	2.691E-07	1.238E-06	600
90.0	6	9.022E-09	4.150E-08	600
94.0	4	6.014E-09	2.767E-08	600
98.0	4	6.014E-09	2.767E-08	600

CROSSWIND INTEGRATED= 3.060E-03
 SEC/SQ.M 1.408E-02
 1/M

TEST U47F NOVEMBER 16, 1966 1420 TO 1450 PST
 FLUORESCIN RELEASE FROM ELEVATION OF 2M
 800M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
37.0	3	4.511E-09	2.075E-08	800
40.0	38	5.563E-08	2.559E-07	800
43.0	199	2.902E-07	1.335E-06	800
46.0	1897	2.767E-06	1.273E-05	800
49.0	508	7.413E-07	3.410E-06	800
52.0	1433	2.090E-06	9.614E-06	800
55.0	921	1.343E-06	6.177E-06	800
58.0	166	2.421E-07	1.114E-06	800
61.0	1134	1.654E-06	7.608E-06	800
64.0	3393	4.947E-06	2.276E-05	800
67.0	5611	8.180E-06	3.763E-05	800
70.0	9345	1.362E-05	6.266E-05	800
73.0	5064	7.383E-06	3.396E-05	800
76.0	4125	6.014E-06	2.767E-05	800
79.0	1217	1.774E-06	8.162E-06	800
82.0	321	4.691E-07	2.158E-06	800
85.0	68	9.924E-08	4.565E-07	800
88.0	3	4.511E-09	2.075E-08	800

CROSSWIND INTEGRATED= 2.165E-03
 SEC/SQ.M 9.958E-03
 1/M

TEST U47F NOVEMBER 16, 1966 1420 TO 1450 PST
 FLUORESCENCE RELEASE FROM ELEVATION OF 2M
 1200M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
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44.0	8	1.258E-08	5.787E-08	1200
46.0	149	2.172E-07	9.992E-07	1200
48.0	421	6.147E-07	2.828E-06	1200
50.0	248	3.623E-07	1.667E-06	1200
52.0	130	1.895E-07	8.719E-07	1200
54.0	350	5.107E-07	2.349E-06	1200
56.0	107	1.544E-07	7.214E-07	1200
58.0	86	1.258E-07	5.787E-07	1200
60.0	144	2.113E-07	9.722E-07	1200
62.0	429	6.265E-07	2.882E-06	1200
64.0	822	1.199E-06	5.517E-06	1200
66.0	1892	2.759E-06	1.269E-05	1200
Z 68.0	4	6.709E-09	3.086E-08	1200
Z 70.0	15	2.264E-08	1.042E-07	1200
72.0	3129	4.562E-06	2.099E-05	1200
74.0	1938	2.826E-06	1.300E-05	1200
Z 76.0	2	3.355E-09	1.543E-08	1200
Z 78.0	2	3.355E-09	1.543E-08	1200
80.0	241	3.514E-07	1.616E-06	1200
82.0	56	8.303E-08	3.819E-07	1200
84.0	21	3.187E-08	1.466E-07	1200
86.0	4	6.709E-09	3.086E-08	1200

CROSSWIND INTEGRATED* 6.234E-04 2.868E-03
 SEC/SQ.M 1/M

TEST U47F NOVEMBER 16, 1966 1420 TO 1450 PST
 FLUORESCENCE RELEASE FROM ELEVATION OF 2M
 1600M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
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48.0	52	7.632E-08	3.511E-07	1600
50.0	248	3.623E-07	1.667E-06	1600
52.0	258	3.766E-07	1.732E-06	1600
54.0	207	3.019E-07	1.389E-06	1600
56.0	56	8.303E-08	3.819E-07	1600
58.0	42	6.206E-08	2.855E-07	1600
60.0	31	4.529E-08	2.083E-07	1600
62.0	198	2.893E-07	1.331E-06	1600
64.0	409	5.971E-07	2.747E-06	1600
66.0	822	1.199E-06	5.517E-06	1600
68.0	1277	1.862E-06	8.564E-06	1600

CROSSWIND INTEGRATED* 2.935E-04 1.350E-03
 SEC/SQ.M 1/M

UNSTABLE SERIES EXPERIMENT: 43 (U-48)
ZINC SULFIDE AND FLUORESCHEIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT 48. ZINC SULFIDE RESULTS ARE PRESENTED HERE. GROUND
LEVEL SAMPLING 100-1600 M ARC.

TEST U48 NOVEMBER 16, 1966 1620 TO 1650 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
100M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
92.0	11	1.367E-08	7.519E-08	100
96.0	43	5.220E-08	2.871E-07	100
100.0	33	3.977E-08	2.187E-07	100
104.0	25	3.107E-08	1.709E-07	100
108.0	10	1.243E-08	6.835E-08	100

CROSSWIND INTEGRATED= 1.041E-06 5.726E-06
SEC/SQ.M 1/M

TEST U48 NOVEMBER 16, 1966 1620 TO 1650 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
46.0	56	6.835E-08	3.759E-07	200
50.0	74	8.948E-08	4.921E-07	200
54.0	37	4.474E-08	2.461E-07	200
58.0	364	4.387E-07	2.413E-06	200
62.0	1341	1.617E-06	8.892E-06	200
66.0	446	5.381E-07	2.960E-06	200
70.0	311	3.753E-07	2.064E-06	200
74.0	71	8.575E-08	4.716E-07	200

CROSSWIND INTEGRATED= 4.548E-05 2.501E-04
SEC/SQ.M 1/M

TEST U48 NOVEMBER 16, 1966 1620 TO 1650 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
300M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
48.0	89	1.081E-07	5.947E-07	300
52.0	232	2.796E-07	1.538E-06	300
56.0	843	1.017E-06	5.591E-06	300
60.0	1144	1.406E-06	7.731E-06	300
64.0	741	8.935E-07	4.914E-06	300
68.0	88	1.069E-07	5.878E-07	300
72.0	107	1.292E-07	7.109E-07	300
76.0	28	3.400E-08	1.914E-07	300

CROSSWIND INTEGRATED= 8.324E-05 4.578E-04
SEC/SQ.M 1/M

TEST U48 NOVEMBER 16, 1966 1620 TO 1650 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
46.0	95	1.156E-07	6.357E-07	400
50.0	634	7.643E-07	4.204E-06	400
54.0	1180	1.422E-06	7.819E-06	400
58.0	1800	2.170E-06	1.193E-05	400
62.0	1042	1.256E-06	6.910E-06	400
66.0	1005	1.212E-06	6.664E-06	400
70.0	774	9.333E-07	5.133E-06	400
74.0	233	2.809E-07	1.545E-06	400
78.0	17	2.113E-08	1.162E-07	400

CROSSWIND INTEGRATED= 2.283E-04 1.256E-03
SEC/SQ.M 1/M

TEST U48 NOVEMBER 16, 1966 1620 TO 1650 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
500M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
48.0	239	2.883E-07	1.586E-06	500
52.0	937	1.130E-06	6.213E-06	500
56.0	1667	2.010E-06	1.105E-05	500
60.0	1551	1.869E-06	1.028E-05	500
64.0	80	1.019E-07	5.605E-07	500
68.0	1109	1.413E-06	7.881E-06	500
72.0	731	8.811E-07	4.846E-06	500
76.0	75	9.072E-08	4.990E-07	500

CROSSWIND INTEGRATED= 2.724E-04 1.498E-03
SEC/SQ.M 1/M

TEST U48 NOVEMBER 16, 1966 1620 TO 1650 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
600M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
50.0	1003	1.209E-06	6.651E-06	600
54.0	1425	1.717E-06	9.446E-06	600
58.0	1795	2.164E-06	1.190E-05	600
62.0	1056	1.273E-06	6.999E-06	600
66.0	1668	2.011E-06	1.106E-05	600
70.0	1924	2.319E-06	1.275E-05	600
74.0	403	5.344E-07	2.939E-06	600

CROSSWIND INTEGRATED= 4.703E-04 2.587E-03
SEC/SQ.M 1/M

TEST U4R NOVEMBER 16, 1966 1620 TO 1650 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
700M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM=SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
48.0	399	4.809E-07	2.645E-06	700
52.0	2123	2.559E-06	1.407E-05	700
56.0	1747	2.154E-06	1.185E-05	700
60.0	74	4.946E-08	4.921E-07	700
64.0	6	7.056E-09	4.101E-08	700
68.0	85	1.031E-07	5.673E-07	700
72.0	233	2.809E-07	1.545E-06	700

CROSSWIND INTEGRATED= 2.773E-04 SEC/SQ.M
1/M

TEST U4B NOVEMBER 16, 1966 1620 TO 1650 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM=SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
49.0	1048	1.287E-06	7.081E-06	800
52.0	2369	2.855E-06	1.570E-05	800
55.0	1369	1.650E-06	9.077E-06	800
58.0	1609	1.939E-06	1.066E-05	800
61.0	1877	2.262E-06	1.244E-05	800
64.0	1182	1.424E-06	7.833E-06	800
67.0	2853	3.437E-06	1.891E-05	800
70.0	1845	2.223E-06	1.223E-05	800
73.0	1044	1.259E-06	6.924E-06	800

CROSSWIND INTEGRATED= 7.681E-04 SEC/SQ.M
1/M

TEST U4B NOVEMBER 16, 1966 1620 TO 1650 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM=SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
46.0	78	9.496E-08	5.223E-07	1200
48.0	473	5.102E-07	2.806E-06	1200
S 50.0	275	3.313E-07	1.822E-06	1200
52.0	150	1.809E-07	9.950E-07	1200
54.0	1319	1.590E-06	8.745E-06	1200
56.0	1149	1.433E-06	7.880E-06	1200
58.0	1183	1.426E-06	7.842E-06	1200
60.0	1849	2.228E-06	1.225E-05	1200
62.0	1892	2.280E-06	1.254E-05	1200
64.0	1091	1.315E-06	7.232E-06	1200
66.0	1193	1.438E-06	7.911E-06	1200
68.0	2458	2.962E-06	1.629E-05	1200
70.0	2514	3.079E-06	1.666E-05	1200
72.0	2322	2.798E-06	1.539E-05	1200
T 74.0	499	6.017E-07	3.309E-06	1200

CROSSWIND INTEGRATED= 9.307E-04 SEC/SQ.M
1/M

TEST U4R NOVEMBER 16, 1966 1620 TO 1650 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM=SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
44.0	407	4.914E-07	2.703E-06	1600
46.0	265	3.195E-07	1.757E-06	1600
48.0	294	3.549E-07	1.952E-06	1600
50.0	178	2.149E-07	1.182E-06	1600
52.0	629	7.583E-07	4.171E-06	1600
54.0	1322	1.593E-06	8.761E-06	1600
56.0	1234	1.488E-06	8.181E-06	1600
58.0	1047	1.262E-06	6.942E-06	1600
60.0	1301	1.568E-06	8.623E-06	1600
62.0	2191	2.641E-06	1.452E-05	1600
64.0	1407	1.696E-06	9.329E-06	1600
66.0	1022	1.232E-06	6.778E-06	1600
68.0	2442	2.942E-06	1.618E-05	1600
70.0	2186	2.634E-06	1.449E-05	1600
72.0	2007	2.419E-06	1.331E-05	1600
74.0	733	8.838E-07	4.861E-06	1600
76.0	102	1.234E-07	6.786E-07	1600

CROSSWIND INTEGRATED= 1.263E-03 SEC/SQ.M
1/M

UNSTABLE SERIES EXPERIMENT: 48F (U-48F)
ZINC SULFIDE AND FLUORESCIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT 48. FLUORESCIN RESULTS ARE PRESENTED HERE. GROUND
LEVEL SAMPLING 100-1600 M ARC.

TEST 048F NOVEMBER 16, 1966 1620 TO 1650 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2 M
100M ARC SAMPLER HT 1.5M U= 1.5 M/SEC AT 2 M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+4	F/D SEC/CU.M	F/D 1/SEC	DISTANCE METERS
36.0	1516	1.827E-06	2.700E-06	100
40.0	115525	1.302E-04	2.088E-04	100
44.0	141312	1.703E-04	2.550E-04	100
48.0	274374	3.306E-04	4.954E-04	100
52.0	539464	6.500E-04	9.749E-04	100
56.0	539181	6.388E-04	9.582E-04	100
60.0	464166	5.502E-04	8.389E-04	100
64.0	432190	5.207E-04	7.811E-04	100
68.0	1670999	2.013E-03	3.020E-03	100
72.0	931427	1.122E-03	1.683E-03	100
76.0	279531	3.368E-04	5.052E-04	100
80.0	19907	2.309E-05	3.598E-05	100
84.0	61	7.056E-08	1.118E-07	100
88.0	17	2.113E-08	3.169E-08	100
92.0	12	1.491E-08	2.237E-08	100
96.0	9	1.118E-08	1.678E-08	100

CROSSWIND INTEGRATED= 4.543E-02 SEC/90.M
6.814E-02 1/M

TEST 048F NOVEMBER 16, 1966 1620 TO 1650 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2 M
200M ARC SAMPLER HT 1.5M U= 1.5 M/SEC AT 2 M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+4	F/D SEC/CU.M	F/D 1/SEC	DISTANCE METERS
36.0	6	7.456E-09	1.118E-08	200
40.0	10	1.203E-08	1.268E-08	200
44.0	67355	8.115E-05	1.217E-04	200
48.0	176393	2.125E-04	3.188E-04	200
52.0	204233	2.461E-04	3.691E-04	200
56.0	141312	1.703E-04	2.554E-04	200
60.0	94174	1.135E-04	1.702E-04	200
64.0	185466	2.237E-04	3.355E-04	200
68.0	744792	8.907E-04	1.350E-03	200
72.0	345144	4.309E-04	6.599E-04	200
76.0	42806	5.157E-05	7.736E-05	200
80.0	14	1.740E-08	2.610E-08	200
84.0	5	6.214E-09	9.321E-09	200
88.0	4	4.971E-09	7.456E-09	200

CROSSWIND INTEGRATED= 3.405E-02 SEC/90.M
5.107E-02 1/M

TEST 048F NOVEMBER 16, 1966 1620 TO 1650 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2 M
300M ARC SAMPLER HT 1.5M U= 1.5 M/SEC AT 2 M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	F/D 1/SEC	DISTANCE METERS
36.0	6	7.456E-09	1.118E-08	300
40.0	43	5.220E-08	7.824E-08	300
44.0	8220	9.965E-06	1.486E-05	300
48.0	68284	8.227E-05	1.230E-04	300
52.0	108305	1.305E-04	1.957E-04	300
56.0	96134	1.158E-04	1.737E-04	300
60.0	72719	8.761E-05	1.314E-04	300
64.0	60511	7.270E-05	1.091E-04	300
68.0	161291	1.220E-04	1.631E-04	300
72.0	462103	5.588E-04	8.351E-04	300
76.0	126872	1.529E-04	2.293E-04	300
80.0	1072	1.202E-06	1.939E-06	300
84.0	9	1.118E-08	1.678E-08	300

CROSSWIND INTEGRATED= 2.702E-02 SEC/90.M
4.184E-02 1/M

TEST 048F NOVEMBER 16, 1966 1620 TO 1650 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2 M
400M ARC SAMPLER HT 1.5M U= 1.5 M/SEC AT 2 M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	F/D 1/SEC	DISTANCE METERS
36.0	14	1.740E-08	2.610E-08	400
40.0	101	1.218E-07	1.827E-07	400
44.0	15678	1.887E-05	2.833E-05	400
48.0	102632	1.237E-04	1.855E-04	400
52.0	72719	8.761E-05	1.314E-04	400
56.0	102632	1.237E-04	1.855E-04	400
60.0	32491	3.015E-05	5.872E-05	400
64.0	55081	6.436E-05	9.954E-05	400
68.0	130209	1.478E-04	2.517E-04	400
72.0	259499	3.020E-04	4.930E-04	400
76.0	40559	5.369E-05	8.053E-05	400
80.0	101	1.218E-07	1.827E-07	400
84.0	6	7.456E-09	1.118E-08	400

CROSSWIND INTEGRATED= 2.705E-02 SEC/90.M
4.118E-02 1/M

TEST 048F NOVEMBER 16, 1966 1620 TO 1650 PST
 FLUORESCIN RELEASE FROM ELEVATION OF 2 M
 500M ARC SAMPLER HT 1.5' U= 1.5 M/SEC AT 2 M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/U SEC/CU.M	F/U 1/SEC	DISTANCE METERS
40.0	20	2.485E-04	3.724E-08	500
44.0	173	2.048E-07	3.132E-07	500
48.0	42806	5.157E-05	7.736E-05	500
52.0	67355	8.115E-05	1.217E-04	500
56.0	45488	5.481E-05	8.221E-05	500
60.0	33410	0.927E-05	6.040E-05	500
64.0	12068	1.456E-05	2.181E-05	500
68.0	49820	6.002E-05	9.004E-05	500
72.0	217642	2.622E-04	3.933E-04	500
76.0	148395	1.305E-04	1.957E-04	500
80.0	5765	6.947E-06	1.042E-05	500
84.0	4	4.971E-09	7.456E-09	500

CROSSWIND INTEGRATED= 2.451E-02 SEC/30.M 3.677E-02 1/M

TEST 048F NOVEMBER 16, 1966 1620 TO 1650 PST
 FLUORESCIN RELEASE FROM ELEVATION OF 2 M
 600M ARC SAMPLER HT 1.5' U= 1.5 M/SEC AT 2 M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/U SEC/CU.M	F/U 1/SEC	DISTANCE METERS
42.0	8	0.932E-09	1.491E-08	600
46.0	2073	2.098E-06	3.747E-06	600
50.0	52399	6.313E-05	9.470E-05	600
54.0	41156	4.459E-05	7.438E-05	600
58.0	39402	4.787E-05	7.121E-05	600
62.0	20033	2.896E-05	4.343E-05	600
66.0	38577	4.688E-05	6.972E-05	600
70.0	40559	5.369E-05	8.053E-05	600
74.0	118494	1.379E-04	2.069E-04	600
78.0	37442	0.511E-05	6.767E-05	600
82.0	23	2.858E-08	4.287E-08	600
86.0	4	4.971E-09	7.456E-09	600

CROSSWIND INTEGRATED= 1.989E-02 SEC/30.M 2.984E-02 1/M

TEST 048F NOVEMBER 16, 1966 1620 TO 1650 PST
 FLUORESCIN RELEASE FROM ELEVATION OF 2 M
 800M ARC SAMPLER HT 1.5' U= 1.5 M/SEC AT 2 M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/U SEC/CU.M	F/U 1/SEC	DISTANCE METERS
40.0	16	1.988E-08	2.983E-08	800
43.0	15	1.988E-08	2.983E-08	800
46.0	466	5.417E-07	8.426E-07	800
49.0	55021	6.434E-05	9.954E-05	800
52.0	29087	3.505E-05	5.257E-05	800
55.0	20732	2.496E-05	3.747E-05	800
58.0	22343	2.697E-05	4.045E-05	800
61.0	29087	3.505E-05	5.257E-05	800
64.0	24033	2.896E-05	4.343E-05	800
67.0	27047	3.505E-05	5.257E-05	800
70.0	27437	3.306E-05	4.959E-05	800
73.0	85200	1.027E-04	1.580E-04	800
76.0	55	6.711E-08	1.007E-07	800

CROSSWIND INTEGRATED= 1.629E-02 SEC/30.M 2.443E-02 1/M

TEST 048F NOVEMBER 16, 1966 1620 TO 1650 PST
 FLUORESCIN RELEASE FROM ELEVATION OF 2 M
 700M ARC SAMPLER HT 1.5' U= 1.5 M/SEC AT 2 M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/U SEC/CU.M	F/U 1/SEC	DISTANCE METERS
40.0	7	8.699E-09	1.305E-08	700
44.0	87	5.717E-08	8.575E-08	700
48.0	30016	3.616E-05	5.025E-05	700
52.0	34657	4.176E-05	6.263E-05	700
56.0	24033	2.896E-05	4.343E-05	700
Z 60.0	87	1.056E-07	1.585E-07	700
Z 64.0	23	2.858E-08	4.287E-08	700
Z 68.0	18	2.217E-08	3.355E-08	700
Z 72.0	93	1.111E-07	1.696E-07	700
76.0	50645	6.102E-05	9.153E-05	700
80.0	397	4.785E-07	7.177E-07	700
84.0	4	4.971E-09	7.456E-09	700

CROSSWIND INTEGRATED= 8.205E-03 SEC/30.M 1.237E-02 1/M

TEST 048F NOVEMBER 16, 1966 1620 TO 1650 PST
 FLUORESCIN RELEASE FROM ELEVATION OF 2 M
 1200M ARC SAMPLER HT 1.5' U= 1.5 M/SEC AT 2 M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/U SEC/CU.M	F/U 1/SEC	DISTANCE METERS
40.0	6	7.625E-09	1.144E-08	1200
42.0	6	7.625E-09	1.144E-08	1200
44.0	31	3.703E-08	5.615E-08	1200
46.0	2865	3.452E-06	5.178E-06	1200
48.0	11909	1.435E-05	2.152E-05	1200
50.0	20072	2.419E-05	3.629E-05	1200
52.0	3192	3.847E-06	5.770E-06	1200
54.0	9492	1.144E-05	1.716E-05	1200
56.0	10125	1.220E-05	1.830E-05	1200
58.0	8704	1.054E-05	1.580E-05	1200
60.0	15073	1.816E-05	2.724E-05	1200
62.0	15303	1.844E-05	2.766E-05	1200
64.0	9665	1.164E-05	1.747E-05	1200
66.0	10815	1.303E-05	1.955E-05	1200
68.0	16223	1.955E-05	2.932E-05	1200
70.0	16453	1.982E-05	2.974E-05	1200
72.0	33412	3.785E-05	5.677E-05	1200
74.0	9245	1.109E-05	1.664E-05	1200
76.0	1	2.079E-09	3.119E-09	1200
78.0	2	2.773E-09	4.159E-09	1200
80.0	2	2.773E-09	4.159E-09	1200

CROSSWIND INTEGRATED= 9.620E-03 SEC/30.M 1.443E-02 1/M

TEST H48F NOVEMBER 14, 1966 1620 TO 1650 PST
 FLUORESCENT RELEASE FROM ELEVATION OF 2 M
 1600M ARC SAMPLER HT 1.5M U= 1.5 M/SEC AT 2 M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	F/D 1/SEC.M	DISTANCE METERS
40.0	9	1.178E-08	1.788E-08	1600
42.0	1539	1.975E-06	2.963E-06	1600
44.0	3230	4.138E-06	6.207E-06	1600
46.0	1656	1.996E-06	2.994E-06	1600
48.0	1300	1.567E-06	2.350E-06	1600
50.0	1196	1.402E-06	2.163E-06	1600
52.0	8284	9.981E-06	1.497E-05	1600
54.0	4901	5.906E-06	8.858E-06	1600
56.0	3705	4.512E-06	6.769E-06	1600
58.0	4505	5.524E-06	8.287E-06	1600
60.0	5810	7.001E-06	1.050E-05	1600
62.0	10125	1.220E-05	1.830E-05	1600
64.0	8572	1.033E-05	1.549E-05	1600
66.0	8859	1.067E-05	1.601E-05	1600
68.0	11103	1.338E-05	2.007E-05	1600
70.0	14325	1.726E-05	2.589E-05	1600
72.0	18410	2.218E-05	3.327E-05	1600
74.0	4234	5.102E-06	7.652E-06	1600
76.0	477	5.753E-07	8.630E-07	1600
78.0	7	9.013E-09	1.352E-08	1600
80.0	1	2.079E-09	3.119E-09	1600

CROSS-ROAD INTEGRATED= 7.582E-03 1.137E-02
 SEC/80.M 1/M

UNSTABLE SERIES EXPERIMENT: 49 (U-49)
ZINC SULFIDE AND FLUORESCHEIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT 49. ZINC SULFIDE RESULTS ARE PRESENTED HERE. GROUND
LEVEL SAMPLING 100-1600 M ARC. A SIGNIFICANT PORTION OF THE
PLUME PASSED TO THE SOUTH OF THE GRID.

TEST U49 NOVEMBER 21, 1966 1450 TO 1520 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
300M ARC SAMPLER HT 1.5M U= 1.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	FU/Z 1/SEC.M	DISTANCE METERS
68.0	16	1.941E-08	3.384E-08	100
72.0	613	7.403E-07	1.259E-06	100
76.0	1547	1.866E-06	3.173E-06	100
80.0	2703	3.310E-06	5.676E-06	100
84.0	4190	1.109E-05	1.885E-05	100
88.0	8251R	9.954E-05	1.692E-04	100
92.0	157816	1.904E-04	3.236E-04	100
96.0	1763R3	2.128E-04	3.617E-04	100
100.0	31253R	3.770E-04	6.409E-04	100
104.0	250649	3.020E-04	5.140E-04	100
108.0	260964	3.108E-04	5.352E-04	100
112.0	197012	2.377E-04	4.040E-04	100
116.0	144607	1.702E-04	2.961E-04	100
120.0	169792	2.269E-04	3.892E-04	100

CROSSWIND INTEGRATED= 1.504E-02 2.557E-02
SEC/SEC.M 1/M

TEST U49 NOVEMBER 21, 1966 1450 TO 1520 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 1.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	FU/Z 1/SEC.M	DISTANCE METERS
70.0	46	5.549E-08	9.518E-08	200
74.0	1309	1.580E-07	2.686E-07	200
78.0	420R	5.077E-06	8.630E-06	200
82.0	1547	1.891E-06	3.215E-06	200
86.0	20712	2.501E-05	4.252E-05	200
90.0	250649	3.020E-04	5.140E-04	200
94.0	1763R3	2.128E-04	3.617E-04	200
98.0	42806	5.160E-05	8.778E-05	200
102.0	30016	3.621E-05	6.155E-05	200
106.0	65602	7.913E-05	1.345E-04	200
110.0	70037	8.408E-05	1.436E-04	200
114.0	57659	6.955E-05	1.182E-04	200
118.0	33419	4.031E-05	6.853E-05	200
122.0	44559	5.375E-05	9.138E-05	200

CROSSWIND INTEGRATED= 1.346E-02 2.288E-02
SEC/SEC.M 1/M

TEST U49 NOVEMBER 21, 1966 1450 TO 1520 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
300M ARC SAMPLER HT 1.5M U= 1.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	FU/Z 1/SEC.M	DISTANCE METERS
72.0	75	9.083E-08	1.544E-07	300
76.0	1939	2.310E-06	3.977E-06	300
80.0	5136	6.106E-06	1.053E-05	300
84.0	19391	2.339E-05	3.977E-05	300
88.0	7901	9.531E-06	1.620E-05	300
92.0	2857	3.847E-06	5.859E-06	300
96.0	1990	2.401E-06	4.082E-06	300
100.0	259	3.136E-07	5.330E-07	300
104.0	1660	2.003E-06	3.406E-06	300
108.0	26612	3.210E-05	5.457E-05	300
112.0	39577	4.653E-05	7.911E-05	300
116.0	34205	4.131E-05	7.023E-05	300
120.0	16709	2.016E-05	3.427E-05	300

CROSSWIND INTEGRATED= 3.975E-03 6.758E-03
SEC/SEC.M 1/M

TEST U49 NOVEMBER 21, 1966 1450 TO 1520 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 1.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	FU/Z 1/SEC.M	DISTANCE METERS
74.0	156	1.891E-07	3.215E-07	400
78.0	43R	5.288E-07	8.990E-07	400
82.0	1990	2.401E-06	4.082E-06	400
86.0	2145	2.588E-06	4.400E-06	400
90.0	1774	2.100E-06	3.638E-06	400
94.0	756	9.120E-07	1.550E-06	400
98.0	921	1.111E-06	1.889E-06	400
102.0	43R	5.288E-07	8.990E-07	400
106.0	182	2.202E-07	3.744E-07	400
110.0	3589	4.330E-06	7.361E-06	400
114.0	1402R	1.692E-05	2.877E-05	400
118.0	17535	2.115E-05	3.596E-05	400
122.0	8666	9.730E-06	1.654E-05	400

CROSSWIND INTEGRATED= 1.752E-03 2.979E-03
SEC/SEC.M 1/M

TEST U49 NOVEMBER 21, 1966 1450 TO 1520 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
500M ARC SAMPLER HT 1.5M U= 1.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Z SEC/CU.M	FU/Z 1/SEC.M	DISTANCE METERS
80.0	17	2.115E-08	3.596E-08	500
84.0	320	3.870E-07	6.578E-07	500
88.0	984	1.187E-06	2.018E-06	500
92.0	1360	1.641E-06	2.790E-06	500
96.0	1329	1.600E-06	2.727E-06	500
100.0	1154	1.362E-06	2.367E-06	500
104.0	1195	1.430E-06	2.430E-06	500
108.0	676	8.162E-07	1.388E-06	500
112.0	676	8.162E-07	1.388E-06	500
116.0	5764	6.954E-06	1.182E-05	500
120.0	9994	1.206E-05	2.049E-05	500

CROSSWIND INTEGRATED= 9.880E-04 1.680E-03
SEC/SEC.M 1/M

TEST U49 NOVEMBER 21, 1966 1450 TO 1520 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
60PM ARC SAMPLER HT 1.5M U= 1.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Z SEC/CM ²	EU/Z 1/SQ.M	DISTANCE METERS
82.0	17	2.115E-08	3.596E-08	600
86.0	17	2.115E-08	3.596E-08	600
90.0	117	1.418E-07	2.411E-07	600
94.0	514	6.209E-07	1.055E-06	600
98.0	2072	2.500E-06	4.249E-06	600
102.0	1773	2.139E-06	3.636E-06	600
106.0	797	2.618E-07	1.635E-06	600
110.0	718	8.672E-07	1.474E-06	600
114.0	676	8.162E-07	1.388E-06	600
118.0	1989	2.400E-06	4.080E-06	600
122.0	8394	1.011E-05	1.719E-05	600

CROSS/IND INTEGRATED= 8.630E-04 1.467E-03
SEC/SQ.M 1/M

TEST U49 NOVEMBER 21, 1966 1450 TO 1520 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
70PM ARC SAMPLER HT 1.5M U= 1.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Z SEC/CM ²	EU/Z 1/SQ.M	DISTANCE METERS
96.0	12	1.493E-08	2.538E-08	700
100.0	438	5.288E-07	8.990E-07	700
104.0	1485	1.792E-06	3.046E-06	700
108.0	830	1.007E-06	1.711E-06	700
112.0	436	5.288E-07	8.990E-07	700
116.0	49	5.972E-08	1.015E-07	700
120.0	1805	2.177E-06	3.702E-06	700

CROSS/IND INTEGRATED= 2.985E-04 5.074E-04
SEC/SQ.M 1/M

TEST U49 NOVEMBER 21, 1966 1450 TO 1520 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
80PM ARC SAMPLER HT 1.5M U= 1.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Z SEC/CM ²	EU/Z 1/SQ.M	DISTANCE METERS
98.0	10	1.244E-08	2.115E-08	800
97.0	17	2.115E-08	3.596E-08	800
100.0	191	2.314E-07	3.930E-07	800
103.0	135	1.630E-07	2.771E-07	800
106.0	747	9.021E-07	1.530E-06	800
109.0	1360	1.641E-06	2.790E-06	800
112.0	594	7.217E-07	1.227E-06	800
115.0	306	3.695E-07	6.262E-07	800
118.0	431	5.201E-07	8.642E-07	800
121.0	1525	1.840E-06	3.126E-06	800

CROSS/IND INTEGRATED= 2.690E-04 4.574E-04
SEC/SQ.M 1/M

TEST U49 NOVEMBER 21, 1966 1450 TO 1520 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
120PM ARC SAMPLER HT 1.5M U= 1.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Z SEC/CM ²	EU/Z 1/SQ.M	DISTANCE METERS
104.0	12	1.457E-08	2.478E-08	1200
106.0	10	1.244E-08	2.124E-08	1200
108.0	10	1.319E-08	2.242E-08	1200
110.0	9	1.180E-08	2.006E-08	1200
112.0	18	2.221E-08	3.775E-08	1200
114.0	22	2.707E-08	4.601E-08	1200
116.0	29	3.539E-08	6.017E-08	1200
118.0	55	6.732E-08	1.144E-07	1200
120.0	35	4.233E-08	7.197E-08	1200
122.0	55	6.732E-08	1.144E-07	1200
124.0	86	1.041E-07	1.770E-07	1200
126.0	86	1.041E-07	1.770E-07	1200
128.0	101	1.221E-07	2.076E-07	1200
130.0	77	9.369E-08	1.593E-07	1200
132.0	96	1.166E-07	1.982E-07	1200
134.0	65	7.911E-08	1.345E-07	1200
136.0	119	1.437E-07	2.442E-07	1200
138.0	138	1.673E-07	2.843E-07	1200
140.0	93	1.131E-07	1.923E-07	1200
142.0	229	2.769E-07	4.707E-07	1200
144.0	93	1.131E-07	1.923E-07	1200
146.0	238	2.880E-07	4.896E-07	1200
148.0	626	7.558E-07	1.285E-06	1200
150.0	318	3.838E-07	6.524E-07	1200
152.0	598	1.193E-06	2.026E-06	1200

CROSS/IND INTEGRATED= 1.856E-04 3.155E-04
SEC/SQ.M 1/M

TEST U49 NOVEMBER 21, 1966 1450 TO 1520 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
140PM ARC SAMPLER HT 1.5M U= 1.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Z SEC/CM ²	EU/Z 1/SQ.M	DISTANCE METERS
108.0	28	2.915E-08	4.955E-08	1600
110.0	5	6.246E-09	1.062E-08	1600
112.0	14	1.864E-08	3.167E-08	1600
114.0	36	4.442E-08	7.551E-08	1600
116.0	108	1.305E-07	2.216E-07	1600
118.0	197	2.380E-07	4.047E-07	1600
120.0	109	1.326E-07	2.253E-07	1600
122.0	132	1.594E-07	2.713E-07	1600

CROSS/IND INTEGRATED= 4.234E-05 7.202E-05
SEC/SQ.M 1/M

UNSTABLE SKINS EXPERIMENT: 49F (U-49F)
ZINC SULFIDE AND FLUORESCHEIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT 49. FLUORESCHEIN RESULTS ARE PRESENTED HERE. GROUND
LEVEL SAMPLING 100-1600 M ARC. A SIGNIFICANT PORTION OF THE
PLUME PASSED TO THE SOUTH OF THE GRID.

TEST U49F NOVEMBER 21, 1966 0420 TO 0433 PST
FLUORESCHEIN RELEASE FROM ELEVATION OF 2M
100M ARC SAMPLER HT 1.5M U= 0.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
68.0	16	1.775E-08	1.597E-08	100
72.0	613	6.599E-07	5.939E-07	100
76.0	1547	1.664E-06	1.497E-06	100
80.0	2743	2.950E-06	2.655E-06	100
84.0	9190	9.882E-06	8.894E-06	100
88.0	82518	8.873E-05	7.986E-05	100
92.0	157816	1.697E-04	1.527E-04	100
96.0	176383	1.897E-04	1.707E-04	100
100.0	312538	3.361E-04	3.025E-04	100
104.0	250649	2.695E-04	2.426E-04	100
108.0	260964	2.806E-04	2.525E-04	100
112.0	197012	2.118E-04	1.907E-04	100
116.0	144407	1.553E-04	1.397E-04	100
120.0	189792	2.041E-04	1.837E-04	100

CROSSWIND INTEGRATED= 1.341E-02 SEC/SQ.M
1.207E-02 1/M

TEST U49F NOVEMBER 21, 1966 0420 TO 0433 PST
FLUORESCHEIN RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 0.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
50.0	10	1.109E-08	9.982E-09	200
54.0	13	1.442E-08	1.298E-08	200
58.0	7	7.764E-09	6.987E-09	200
62.0	7	7.764E-09	6.987E-09	200
66.0	8	8.873E-09	7.986E-09	200
70.0	46	4.991E-08	4.492E-08	200
74.0	1309	1.409E-06	1.268E-06	200
78.0	4208	4.525E-06	4.073E-06	200
82.0	1567	1.686E-06	1.517E-06	200
86.0	20732	2.229E-05	2.006E-05	200
90.0	250649	2.695E-04	2.426E-04	200
94.0	176383	1.897E-04	1.707E-04	200
98.0	42806	4.603E-05	4.143E-05	200
102.0	30016	3.228E-05	2.905E-05	200
106.0	65602	7.054E-05	6.349E-05	200
110.0	70037	7.531E-05	6.778E-05	200
114.0	57659	6.200E-05	5.580E-05	200
118.0	33419	3.594E-05	3.234E-05	200
122.0	44559	4.791E-05	4.312E-05	200

CROSSWIND INTEGRATED= 1.200E-02 SEC/SQ.M
1.080E-02 1/M

TEST U49F NOVEMBER 21, 1966 0420 TO 0433 PST
FLUORESCHEIN RELEASE FROM ELEVATION OF 2M
300M ARC SAMPLER HT 1.5M U= 0.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
56.0	10	1.109E-08	9.982E-09	300
60.0	5	5.546E-09	4.991E-09	300
64.0	8	8.873E-09	7.986E-09	300
68.0	5	5.546E-09	4.991E-09	300
72.0	75	8.097E-08	7.287E-08	300
76.0	1939	2.045E-06	1.877E-06	300
80.0	5136	5.523E-06	4.971E-06	300
84.0	19391	2.085E-05	1.877E-05	300
88.0	7901	8.496E-06	7.646E-06	300
92.0	2857	3.072E-06	2.765E-06	300
96.0	1990	2.141E-06	1.927E-06	300
100.0	259	2.795E-07	2.515E-07	300
104.0	1660	1.786E-06	1.607E-06	300
108.0	26612	2.862E-05	2.575E-05	300
112.0	38577	4.148E-05	3.733E-05	300
116.0	34245	3.682E-05	3.314E-05	300
120.0	16709	1.797E-05	1.617E-05	300

CROSSWIND INTEGRATED= 3.544E-03 SEC/SQ.M
3.190E-03 1/M

TEST U49F NOVEMBER 21, 1966 0420 TO 0433 PST
FLUORESCHEIN RELEASE FROM ELEVATION OF 2M
400M ARC SAMPLER HT 1.5M U= 0.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
58.0	12	1.331E-08	1.198E-08	400
62.0	8	8.873E-09	7.986E-09	400
66.0	7	7.764E-09	6.987E-09	400
70.0	7	7.764E-09	6.987E-09	400
74.0	156	1.686E-07	1.517E-07	400
78.0	438	4.714E-07	4.242E-07	400
82.0	1990	2.141E-06	1.927E-06	400
86.0	2145	2.307E-06	2.076E-06	400
90.0	1774	1.908E-06	1.717E-06	400
94.0	756	8.130E-07	7.317E-07	400
98.0	921	9.904E-07	8.914E-07	400
102.0	438	4.714E-07	4.242E-07	400
106.0	182	1.963E-07	1.767E-07	400
110.0	7589	3.860E-06	3.474E-06	400
114.0	14028	1.508E-05	1.358E-05	400
118.0	17535	1.886E-05	1.697E-05	400
122.0	8066	8.673E-06	7.806E-06	400

CROSSWIND INTEGRATED= 1.563E-03 SEC/SQ.M
1.407E-03 1/M

TEST U49F NOVEMBER 21, 1966 0420 TO 0433 PST
 FLUORESCIN RELEASE FROM ELEVATION OF 2M
 500M ARC SAMPLER HT 1.5M U= 0.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
64.0	10	1.109E-08	9.982E-09	500
68.0	11	1.220E-08	1.098E-08	500
72.0	12	1.331E-08	1.198E-08	500
76.0	7	7.764E-09	6.987E-09	500
80.0	18	1.996E-08	1.797E-08	500
84.0	321	3.460E-07	3.114E-07	500
88.0	985	1.059E-06	9.533E-07	500
92.0	1361	1.464E-06	1.318E-06	500
96.0	1330	1.431E-06	1.288E-06	500
100.0	1155	1.242E-06	1.118E-06	500
104.0	1186	1.275E-06	1.148E-06	500
108.0	677	7.287E-07	6.558E-07	500
112.0	677	7.287E-07	6.558E-07	500
116.0	5765	6.200E-06	5.580E-06	500
120.0	9995	1.075E-05	9.673E-06	500

CROSSWIND INTEGRATED= 8.827E-04
 SEC/SQ.M 1/M

TEST U49F NOVEMBER 21, 1966 0420 TO 0433 PST
 FLUORESCIN RELEASE FROM ELEVATION OF 2M
 600M ARC SAMPLER HT 1.5M U= 0.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
66.0	15	1.664E-08	1.497E-08	600
70.0	9	9.982E-09	8.984E-09	600
74.0	8	8.873E-09	7.986E-09	600
78.0	8	8.873E-09	7.986E-09	600
82.0	18	1.996E-08	1.797E-08	600
86.0	18	1.996E-08	1.797E-08	600
90.0	118	1.275E-07	1.148E-07	600
94.0	515	5.546E-07	4.991E-07	600
98.0	2073	2.229E-06	2.006E-06	600
102.0	1774	1.908E-06	1.717E-06	600
106.0	798	8.585E-07	7.726E-07	600
110.0	719	7.742E-07	6.967E-07	600
114.0	677	7.287E-07	6.558E-07	600
118.0	1990	2.141E-06	1.927E-06	600
122.0	8385	9.017E-06	8.115E-06	600

CROSSWIND INTEGRATED= 7.717E-04
 SEC/SQ.M 1/M

TEST U49F NOVEMBER 21, 1966 0420 TO 0433 PST
 FLUORESCIN RELEASE FROM ELEVATION OF 2M
 700M ARC SAMPLER HT 1.5M U= 0.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
68.0	7	7.764E-09	6.987E-09	700
72.0	5	5.546E-09	4.991E-09	700
76.0	7	7.764E-09	6.987E-09	700
80.0	5	5.546E-09	4.991E-09	700
84.0	7	7.764E-09	6.987E-09	700
88.0	6	6.655E-09	5.989E-09	700
92.0	7	7.764E-09	6.987E-09	700
96.0	12	1.331E-08	1.198E-08	700
100.0	438	4.714E-07	4.242E-07	700
104.0	1485	1.597E-06	1.437E-06	700
108.0	834	8.973E-07	8.075E-07	700
112.0	438	4.714E-07	4.242E-07	700
116.0	49	5.324E-08	4.791E-08	700
120.0	1805	1.941E-06	1.747E-06	700

CROSSWIND INTEGRATED= 2.685E-04
 SEC/SQ.M 1/M

TEST U49F NOVEMBER 21, 1966 0420 TO 0433 PST
 FLUORESCIN RELEASE FROM ELEVATION OF 2M
 800M ARC SAMPLER HT 1.5M U= 0.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
85.0	4	4.436E-09	3.993E-09	800
88.0	5	5.546E-09	4.991E-09	800
91.0	8	6.655E-09	5.989E-09	800
94.0	11	1.220E-08	1.098E-08	800
97.0	18	1.996E-08	1.797E-08	800
100.0	192	2.074E-07	1.867E-07	800
103.0	136	1.464E-07	1.318E-07	800
106.0	748	8.052E-07	7.247E-07	800
109.0	1361	1.464E-06	1.318E-06	800
112.0	599	6.444E-07	5.800E-07	800
115.0	397	3.305E-07	2.975E-07	800
118.0	432	4.647E-07	4.182E-07	800
121.0	1526	1.641E-06	1.477E-06	800

CROSSWIND INTEGRATED= 2.410E-04
 SEC/SQ.M 1/M

TEST U49F NOVEMBER 21, 1966 0420 TO 0433 PST
 FLUORESCIN RELEASE FROM ELEVATION OF 2M
 1200M ARC SAMPLER HT 1.5M Uz 0.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	F/O SEC/CM	FU/O 1/80.M	DISTANCE METERS
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64.0	12	1.361E-08	1.225E-08	1200
66.0	10	1.175E-08	1.058E-08	1200
68.0	11	1.237E-08	1.114E-08	1200
70.0	8	9.279E-09	8.351E-09	1200
72.0	2	2.474E-09	2.227E-09	1200
74.0	2	2.474E-09	2.227E-09	1200
76.0	4	4.330E-09	3.897E-09	1200
78.0	4	4.949E-09	4.454E-09	1200
80.0	10	1.114E-08	1.002E-08	1200
82.0	18	2.041E-08	1.837E-08	1200
84.0	23	2.474E-08	2.227E-08	1200
86.0	29	3.217E-08	2.895E-08	1200
88.0	56	6.062E-08	5.456E-08	1200
90.0	35	3.835E-08	3.452E-08	1200
92.0	56	6.062E-08	5.456E-08	1200
94.0	86	9.301E-08	8.407E-08	1200
96.0	87	9.403E-08	8.463E-08	1200
98.0	101	1.095E-07	9.855E-08	1200
100.0	78	8.413E-08	7.572E-08	1200
102.0	97	1.045E-07	9.409E-08	1200
104.0	66	7.114E-08	6.403E-08	1200
106.0	119	1.287E-07	1.158E-07	1200
108.0	139	1.497E-07	1.347E-07	1200
110.0	94	1.015E-07	9.131E-08	1200
X 112.0	230	2.474E-07	2.227E-07	1200
114.0	94	1.015E-07	9.131E-08	1200
X 116.0	239	2.573E-07	2.316E-07	1200
118.0	627	6.743E-07	6.069E-07	1200
120.0	318	3.427E-07	3.084E-07	1200
122.0	989	1.064E-06	9.576E-07	1200

CROSSWIND INTEGRATED= 1.648E-04 1.483E-04
 SEC/80.M 1/M

UNSTABLE SERIES EXPERIMENT: 50 (U-50)
GROUND LEVEL SAMPLING 100-1600 M ARCS.

TEST U50 DECEMBER 5, 1966 1110 TO 1140 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
100M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/G SEC/CM	EU/G 1/SG.M	DISTANCE METERS
16.0	0	0.000E+00	0.000E+00	100
20.0	0	0.000E+00	0.000E+00	100
24.0	331	4.640E-07	2.645E-06	100
28.0	68	9.560E-08	5.449E-07	100
32.0	130	1.832E-07	1.044E-06	100
36.0	59	8.365E-08	4.768E-07	100
40.0	132	1.862E-07	1.061E-06	100
44.0	39	5.576E-08	3.179E-07	100
48.0	0	0.000E+00	0.000E+00	100
CROSSWIND INTEGRATED= 7.459E-06 SEC/SG.M				
4.252E-05 1/M				

TEST U50 DECEMBER 5, 1966 1110 TO 1140 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/G SEC/CM	EU/G 1/SG.M	DISTANCE METERS
8.0	0	0.000E+00	0.000E+00	200
12.0	0	0.000E+00	0.000E+00	200
16.0	211	2.954E-07	1.686E-06	200
20.0	481	6.742E-07	3.843E-06	200
24.0	713	9.949E-07	5.693E-06	200
28.0	923	1.294E-06	7.373E-06	200
32.0	1907	2.672E-06	1.523E-05	200
36.0	1948	2.728E-06	1.555E-05	200
40.0	2211	3.097E-06	1.765E-05	200
44.0	522	7.319E-07	4.172E-06	200
48.0	51	7.269E-08	4.143E-07	200
52.0	0	0.000E+00	0.000E+00	200
CROSSWIND INTEGRATED= 1.754E-04 SEC/SG.M				
9.999E-04 1/M				

TEST U50 DECEMBER 5, 1966 1110 TO 1140 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
300M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/G SEC/CM	EU/G 1/SG.M	DISTANCE METERS
4.0	0	0.000E+00	0.000E+00	300
8.0	164	2.310E-07	1.317E-06	300
12.0	836	1.172E-06	6.681E-06	300
16.0	464	6.503E-07	3.706E-06	300
20.0	688	9.639E-07	5.494E-06	300
24.0	1662	2.328E-06	1.327E-05	300
28.0	527	7.389E-07	4.212E-06	300
32.0	933	1.307E-06	7.453E-06	300
36.0	477	6.682E-07	3.809E-06	300
40.0	177	2.440E-07	1.413E-06	300
44.0	537	7.528E-07	4.291E-06	300
48.0	293	4.113E-07	2.344E-06	300
52.0	330	4.630E-07	2.639E-06	300
56.0	0	0.000E+00	0.000E+00	300
CROSSWIND INTEGRATED= 2.081E-04 SEC/SG.M				
1.186E-03 1/M				

TEST U50 DECEMBER 5, 1966 1110 TO 1140 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/G SEC/CM	EU/G 1/SG.M	DISTANCE METERS
8.0	270	3.794E-07	2.163E-06	400
12.0	588	8.245E-07	4.700E-06	400
16.0	806	1.130E-06	6.442E-06	400
20.0	776	1.087E-06	6.198E-06	400
24.0	1240	1.738E-06	9.905E-06	400
28.0	2875	4.028E-06	2.296E-05	400
32.0	4510	6.317E-06	3.601E-05	400
36.0	4912	6.881E-06	3.922E-05	400
40.0	3825	5.357E-06	3.054E-05	400
44.0	1310	1.835E-06	1.046E-05	400
48.0	870	1.220E-06	6.953E-06	400
52.0	231	3.246E-07	1.850E-06	400
56.0	24	3.485E-08	1.987E-07	400
CROSSWIND INTEGRATED= 8.701E-04 SEC/SG.M				
8.959E-03 1/M				

TEST U50 DECEMBER 5, 1966 1110 TO 1140 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
500M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/G SEC/CM	EU/G 1/SG.M	DISTANCE METERS
4.0	0	0.000E+00	0.000E+00	500
8.0	601	8.424E-07	4.802E-06	500
12.0	1172	1.682E-06	9.360E-06	500
16.0	493	6.911E-07	3.939E-06	500
20.0	322	4.521E-07	2.577E-06	500
24.0	1888	2.645E-06	1.508E-05	500
28.0	4360	6.107E-06	3.481E-05	500
32.0	7133	9.991E-06	5.695E-05	500
36.0	4767	6.677E-06	3.806E-05	500
40.0	2331	3.265E-06	1.861E-05	500
44.0	993	1.391E-06	7.929E-06	500
48.0	573	8.026E-07	4.575E-06	500
52.0	70	9.858E-08	5.619E-07	500
56.0	30	4.282E-08	2.441E-07	500
CROSSWIND INTEGRATED= 1.209E-03 SEC/SG.M				
6.894E-03 1/M				

TEST U50 DECEMBER 5, 1966 1110 TO 1140 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
600M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/G SEC/CM	EU/G 1/SG.M	DISTANCE METERS
6.0	160	2.250E-07	1.283E-06	600
10.0	837	1.257E-06	7.163E-06	600
14.0	542	8.156E-07	4.649E-06	600
18.0	322	4.511E-07	2.571E-06	600
22.0	610	8.544E-07	4.870E-06	600
26.0	2492	3.490E-06	1.989E-05	600
30.0	4878	6.812E-06	3.894E-05	600
34.0	4374	6.127E-06	3.492E-05	600
38.0	2657	3.722E-06	2.122E-05	600
42.0	912	1.278E-06	7.282E-06	600
46.0	558	7.827E-07	4.461E-06	600
50.0	17	2.399E-08	1.362E-07	600
CROSSWIND INTEGRATED= 1.083E-03 SEC/SG.M				
6.174E-03 1/M				

TEST U50 DECEMBER 5, 1966 1110 TO 1140 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
700M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/C SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
4.0	0	0.000E+00	0.000E+00	700
8.0	673	9.430E-07	5.375E-06	700
12.0	572	8.016E-07	4.569E-06	700
16.0	476	6.672E-07	3.803E-06	700
20.0	356	4.999E-07	2.849E-06	700
24.0	688	9.649E-07	5.500E-06	700
28.0	2501	3.503E-06	1.997E-05	700
32.0	4893	6.853E-06	3.906E-05	700
36.0	4149	5.811E-06	3.313E-05	700
40.0	1540	2.157E-06	1.229E-05	700
44.0	513	7.190E-07	4.098E-06	700
48.0	145	2.041E-07	1.164E-06	700

CROSSWIND INTEGRATED= 1.130E-03 SEC/SQ.M 6.441E-03 1/M

TEST U50 DECEMBER 5, 1966 1110 TO 1140 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/C SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
7.0	64	9.062E-08	5.165E-07	800
10.0	272	3.810E-07	2.174E-06	800
13.0	588	8.245E-07	4.700E-06	800
16.0	445	6.214E-07	3.553E-06	800
19.0	386	5.407E-07	3.082E-06	800
22.0	298	4.182E-07	2.384E-06	800
25.0	760	1.065E-06	6.068E-06	800
28.0	2386	3.342E-06	1.905E-05	800
31.0	4410	6.177E-06	3.521E-05	800
34.0	4554	6.379E-06	3.636E-05	800
37.0	3096	4.337E-06	2.472E-05	800
40.0	1308	1.832E-06	1.044E-05	800
43.0	600	8.414E-07	4.796E-06	800
46.0	395	5.537E-07	3.156E-06	800

CROSSWIND INTEGRATED= 1.148E-03 SEC/SQ.M 6.593E-03 1/M

TEST U50 DECEMBER 5, 1966 1110 TO 1140 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/C SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
10.0	16	2.327E-08	1.327E-07	1200
12.0	157	2.208E-07	1.258E-06	1200
14.0	194	2.717E-07	1.549E-06	1200
16.0	290	4.070E-07	2.320E-06	1200
18.0	291	4.082E-07	2.327E-06	1200
20.0	211	2.963E-07	1.689E-06	1200
22.0	161	2.258E-07	1.267E-06	1200
24.0	259	3.629E-07	2.069E-06	1200
26.0	387	5.428E-07	3.094E-06	1200
28.0	1076	1.508E-06	8.597E-06	1200
30.0	2008	2.814E-06	1.604E-05	1200
32.0	1930	2.703E-06	1.541E-05	1200
34.0	1677	2.350E-06	1.339E-05	1200
36.0	1499	2.100E-06	1.197E-05	1200
38.0	1239	1.737E-06	9.899E-06	1200
40.0	703	9.850E-07	5.615E-06	1200
42.0	389	5.453E-07	3.108E-06	1200
44.0	168	2.365E-07	1.348E-06	1200
46.0	74	1.044E-07	5.952E-07	1200

CROSSWIND INTEGRATED= 7.473E-04 SEC/SQ.M 4.260E-03 1/M

TEST U50 DECEMBER 5, 1966 1110 TO 1140 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/C SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
12.0	17	2.516E-08	1.434E-07	1600
14.0	6	8.806E-09	5.019E-08	1600
16.0	74	1.044E-07	5.952E-07	1600
18.0	58	8.240E-08	4.697E-07	1600
20.0	218	3.057E-07	1.742E-06	1600
22.0	136	1.906E-07	1.086E-06	1600
24.0	83	1.170E-07	6.669E-07	1600
26.0	139	1.956E-07	1.115E-06	1600
28.0	377	5.284E-07	3.012E-06	1600
30.0	248	3.485E-07	1.986E-06	1600
32.0	899	1.260E-06	7.181E-06	1600
34.0	626	8.768E-07	4.998E-06	1600
36.0	460	6.447E-07	3.675E-06	1600
38.0	505	7.082E-07	4.037E-06	1600
40.0	16	2.264E-08	1.291E-07	1600
42.0	19	2.768E-08	1.570E-07	1600
44.0	25	3.585E-08	2.044E-07	1600
46.0	14	2.076E-08	1.183E-07	1600

CROSSWIND INTEGRATED= 3.074E-04 SEC/SQ.M 1.752E-03 1/M

UNSTABLE SERIES EXPERIMENT: 50F (U-50F)
ZINC SULFIDE AND FLUORESCIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT 51. FLUORESCIN RESULTS ARE PRESENTED HERE. GROUND
LEVEL SAMPLING 100-1600 M ARC.

TEST US0F DECEMBER 5, 1966 1110 TO 1140 PST TEST US0F DECEMBER 5, 1966 1110 TO 1140 PST
FLUORESCIN RELEASE FROM ELEVATION OF 20M FLUORESCIN RELEASE FROM ELEVATION OF 20M
100M ARC SAMPLER HT 1.5M U= 9.9 M/SEC AT 20M 300M ARC SAMPLER HT 1.5M U= 9.9 M/SEC AT 20M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/30.M	DISTANCE METERS	AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/30.M	DISTANCE METERS
10.0	0	1.175E-09	1.164E-08	100	10.0	0	9.998E-10	9.898E-09	300
14.0	8	1.012E-08	1.002E-07	100	14.0	1	1.172E-09	1.172E-08	300
18.0	35	4.457E-08	4.413E-07	100	18.0	0	1.121E-09	1.110E-08	300
22.0	89	1.121E-07	1.110E-06	100	22.0	0	6.891E-10	6.822E-09	300
26.0	278	3.486E-07	3.451E-06	100	26.0	1	2.135E-09	2.113E-08	300
30.0	886	1.108E-06	1.097E-05	100	30.0	7	9.849E-09	9.751E-08	300
34.0	7965	9.957E-06	9.858E-05	100	34.0	93	1.174E-07	1.162E-06	300
38.0	1533	1.917E-06	1.898E-05	100	38.0	1111	1.389E-06	1.375E-05	300
42.0	3268	4.086E-06	4.045E-05	100	42.0	3295	4.120E-06	4.079E-05	300
46.0	3813	4.767E-06	4.719E-05	100	46.0	2097	2.622E-06	2.595E-05	300
50.0	78600	9.825E-05	9.727E-04	100	50.0	2696	3.371E-06	3.337E-05	300
54.0	206391	2.580E-04	2.554E-03	100	54.0	12154	1.519E-05	1.504E-04	300
58.0	34543	4.318E-05	4.275E-04	100	58.0	216	2.708E-07	2.681E-06	300
62.0	37802	4.725E-05	4.678E-04	100	62.0	653	8.167E-07	8.085E-06	300
66.0	25418	3.177E-05	3.146E-04	100	66.0	641	8.024E-07	7.943E-06	300
70.0	11297	1.412E-05	1.398E-04	100	70.0	168	2.106E-07	2.085E-06	300
74.0	35846	4.481E-05	4.436E-04	100	74.0	7794	9.743E-06	9.646E-05	300
78.0	17685	2.211E-05	2.189E-04	100	78.0	2166	2.708E-06	2.681E-05	300
82.0	3447	4.310E-06	4.267E-05	100	82.0	1024	1.281E-06	1.268E-05	300
86.0	313	3.918E-07	3.879E-06	100	86.0	26	3.369E-08	3.336E-07	300
90.0	2	2.501E-09	2.555E-08	100	90.0	0	6.958E-10	6.889E-09	300
94.0	1	2.013E-09	1.993E-08	100	94.0	0	1.093E-09	1.082E-08	300
98.0	3	4.715E-09	4.668E-08	100	98.0	1	1.519E-09	1.503E-08	300
102.0	0	7.296E-10	7.223E-09	100	102.0	1	1.377E-09	1.363E-08	300
106.0					106.0	0	7.526E-10	7.450E-09	300

CROSSWIND INTEGRATED= 4.455E-03 SEC/30.M 4.410E-02 1/M

CROSSWIND INTEGRATED= 8.945E-04 SEC/30.M 8.856E-03 1/M

TEST US0F DECEMBER 5, 1966 1110 TO 1140 PST
FLUORESCIN RELEASE FROM ELEVATION OF 20M
200M ARC SAMPLER HT 1.5M U= 9.9 M/SEC AT 20M

TEST US0F DECEMBER 5, 1966 1110 TO 1140 PST
FLUORESCIN RELEASE FROM ELEVATION OF 20M
400M ARC SAMPLER HT 1.5M U= 9.9 M/SEC AT 20M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/30.M	DISTANCE METERS	AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/30.M	DISTANCE METERS
12.0	1	2.054E-09	2.033E-08	200	12.0	0	1.207E-09	1.194E-08	400
16.0	2	3.513E-09	3.478E-08	200	16.0	0	1.065E-09	1.054E-08	400
20.0	1	2.216E-09	2.194E-08	200	20.0	0	8.944E-10	8.855E-09	400
24.0	3	4.715E-09	4.668E-08	200	24.0	0	9.228E-10	9.136E-09	400
28.0	23	2.958E-08	2.928E-07	200	28.0	0	4.822E-08	4.774E-07	400
32.0	60	7.565E-08	7.489E-07	200	32.0	38	1.488E-08	1.473E-07	400
36.0	2282	2.853E-06	2.825E-05	200	36.0	11	3.224E-06	3.192E-05	400
40.0	6182	7.728E-06	7.651E-05	200	40.0	2579	3.439E-06	3.404E-05	400
44.0	7133	8.917E-06	8.828E-05	200	44.0	2751	1.290E-06	1.277E-05	400
48.0	5944	7.431E-06	7.357E-05	200	48.0	1031	5.817E-06	5.759E-05	400
52.0	13391	1.674E-05	1.657E-04	200	52.0	4653	2.053E-05	2.033E-04	400
56.0	36025	4.503E-05	4.458E-04	200	56.0	16424	4.790E-05	4.743E-04	400
60.0	64524	8.066E-05	7.985E-04	200	60.0	38323	5.560E-05	5.505E-04	400
64.0	119489	1.494E-04	1.479E-03	200	64.0	44482	2.139E-05	2.117E-04	400
68.0	82556	1.032E-04	1.022E-03	200	68.0	17108	7.737E-06	7.660E-05	400
72.0	32588	4.074E-05	4.033E-04	200	72.0	6189	1.801E-06	1.783E-05	400
76.0	8690	1.086E-05	1.075E-04	200	76.0	1441	9.647E-07	9.550E-06	400
80.0	3602	4.503E-06	4.458E-05	200	80.0	771	7.931E-09	7.852E-08	400
84.0	1883	2.355E-06	2.331E-05	200	84.0	6	7.836E-10	7.758E-09	400
88.0	19	2.495E-08	2.470E-07	200	88.0	0	7.026E-10	6.955E-09	400
92.0	1	1.892E-09	1.873E-08	200	92.0	0	9.052E-10	8.962E-09	400
96.0	1	1.932E-09	1.913E-08	200	96.0	0	9.728E-10	9.631E-09	400
100.0	2	2.702E-09	2.675E-08	200	100.0	0			
104.0	0	1.175E-09	1.164E-08	200	104.0	0			

CROSSWIND INTEGRATED= 6.710E-03 SEC/30.M 6.643E-02 1/M

CROSSWIND INTEGRATED= 4.741E-03 SEC/30.M 4.694E-02 1/M

TEST USOF DECEMBER 5, 1966 1110 TO 1140 PST
FLUORESCIN RELEASE FROM ELEVATION OF 20M
500M ARC SAMPLER HT 1.5M U= 9.9 M/SEC AT 20M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
10.0	1	1.527E-09	1.511E-08	500
14.0	1	1.892E-09	1.873E-08	500
18.0	0	7.971E-10	7.892E-09	500
22.0	18	2.309E-08	2.266E-07	500
26.0	1	1.527E-09	1.511E-08	500
30.0	0	9.187E-10	9.096E-09	500
34.0	27	3.476E-08	3.442E-07	500
38.0	523	6.539E-07	6.474E-06	500
42.0	1883	2.355E-06	2.331E-05	500
46.0	1462	1.828E-06	1.810E-05	500
50.0	546	6.836E-07	6.768E-06	500
54.0	3200	4.001E-06	3.961E-05	500
58.0	11462	1.433E-05	1.418E-04	500
62.0	20639	2.580E-05	2.554E-04	500
66.0	15642	1.955E-05	1.936E-04	500
70.0	4587	5.735E-06	5.677E-05	500
74.0	2349	2.937E-06	2.908E-05	500
78.0	726	9.079E-07	8.986E-06	500
82.0	4	5.931E-09	5.872E-08	500
86.0	1	1.621E-09	1.605E-08	500
90.0	0	7.566E-10	7.490E-09	500
94.0	0	1.108E-09	1.097E-08	500
98.0	0	1.135E-09	1.124E-08	500
102.0	1	1.486E-09	1.471E-08	500
146.0	0	1.134E-09	1.123E-08	500

CROSSWIND INTEGRATED= 2.753E-03 2.726E-02
SEC/SQ.M 1/M

TEST USOF DECEMBER 5, 1966 1110 TO 1140 PST
FLUORESCIN RELEASE FROM ELEVATION OF 20M
700M ARC SAMPLER HT 1.5M U= 9.9 M/SEC AT 20M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
10.0	0	9.052E-10	8.962E-09	700
18.0	0	6.485E-10	6.420E-09	700
22.0	1	1.459E-09	1.445E-08	700
30.0	1	2.108E-09	2.087E-08	700
34.0	0	1.216E-09	1.204E-08	700
38.0	4	6.215E-09	6.153E-08	700
42.0	47	5.945E-08	5.885E-07	700
46.0	37	4.729E-08	4.682E-07	700
50.0	22	2.837E-08	2.809E-07	700
54.0	52	6.620E-08	6.554E-07	700
58.0	288	3.607E-07	3.571E-06	700
62.0	526	6.587E-07	6.521E-06	700
66.0	499	6.249E-07	6.186E-06	700
70.0	166	2.077E-07	2.057E-06	700
74.0	54	6.755E-08	6.688E-07	700
78.0	145	1.824E-07	1.806E-06	700
82.0	0	1.013E-09	1.003E-08	700
86.0	0	9.964E-10	9.865E-09	700
90.0	0	9.289E-10	9.196E-09	700
94.0	0	0.000E+00	0.000E+00	700
146.0	0	6.755E-10	6.688E-09	700

CROSSWIND INTEGRATED= 1.137E-04 1.126E-03
SEC/SQ.M 1/M

TEST USOF DECEMBER 5, 1966 1110 TO 1140 PST
FLUORESCIN RELEASE FROM ELEVATION OF 20M
600M ARC SAMPLER HT 1.5M U= 9.9 M/SEC AT 20M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
12.0	1	1.284E-09	1.271E-08	600
20.0	1	1.946E-09	1.926E-08	600
24.0	0	1.054E-09	1.043E-08	600
28.0	1	2.391E-09	2.368E-08	600
32.0	0	7.431E-10	7.357E-09	600
36.0	14	1.873E-08	1.854E-07	600
40.0	749	9.363E-07	9.269E-06	600
44.0	951	1.189E-06	1.177E-05	600
48.0	451	5.648E-07	5.591E-06	600
52.0	963	1.204E-06	1.192E-05	600
56.0	3881	4.852E-06	4.803E-05	600
60.0	8405	1.051E-05	1.040E-04	600
64.0	13100	1.638E-05	1.621E-04	600
68.0	6605	8.256E-06	8.174E-05	600
72.0	2020	2.525E-06	2.500E-05	600
76.0	891	1.115E-06	1.103E-05	600
80.0	24	3.121E-08	3.090E-07	600
84.0	1	2.229E-09	2.207E-08	600
88.0	0	1.027E-09	1.017E-08	600
92.0	0	1.243E-09	1.231E-08	600
96.0	1	2.229E-09	2.207E-08	600
148.0	1	2.027E-09	2.006E-08	600

CROSSWIND INTEGRATED= 1.995E-03 1.975E-02
SEC/SQ.M 1/M

TEST USOF DECEMBER 5, 1966 1110 TO 1140 PST
FLUORESCIN RELEASE FROM ELEVATION OF 20M
800M ARC SAMPLER HT 1.5M U= 9.9 M/SEC AT 20M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
10.0	1	1.257E-09	1.244E-08	800
25.0	0	7.026E-10	6.955E-09	800
28.0	0	8.782E-10	8.694E-09	800
31.0	0	9.322E-10	9.229E-09	800
34.0	0	5.675E-10	5.618E-09	800
37.0	3	4.459E-09	4.414E-08	800
40.0	136	1.702E-07	1.685E-06	800
43.0	745	9.322E-07	9.229E-06	800
46.0	486	6.080E-07	6.019E-06	800
49.0	389	4.864E-07	4.815E-06	800
52.0	497	6.215E-07	6.153E-06	800
55.0	1253	1.567E-06	1.552E-05	800
58.0	5058	6.323E-06	6.260E-05	800
61.0	7349	9.187E-06	9.096E-05	800
64.0	8863	1.108E-05	1.097E-04	800
67.0	4669	5.817E-06	5.778E-05	800
70.0	2269	2.817E-06	2.809E-05	800
73.0	39	4.999E-08	4.949E-07	800
76.0	389	4.864E-07	4.815E-06	800
79.0	3	3.763E-09	3.745E-08	800
82.0	0	5.134E-10	5.083E-09	800
85.0	0	6.215E-10	6.153E-09	800
88.0	0	5.269E-10	5.217E-09	800
112.0	0	5.519E-10	5.484E-09	800

CROSSWIND INTEGRATED= 1.684E-03 1.667E-02
SEC/SQ.M 1/M

TEST USOF DECEMBER 5, 1966 1110 TO 1140 PST
 FLUORESCIN RELEASE FROM ELEVATION OF 20M
 1200M ARC SAMPLER HT 1.5M U= 9.9 M/SEC AT 20M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU,M X10E+6	E/Q SEC/CU,M	EU/Q 1/SQ,M	DISTANCE METERS
30.0	0	8.817E-10	8.729E-09	1200
56.0	446	5.576E-07	5.521E-06	1200
58.0	1483	1.854E-06	1.835E-05	1200
60.0	2351	2.939E-06	2.910E-05	1200
62.0	2929	3.662E-06	3.626E-05	1200
64.0	3146	3.930E-06	3.894E-05	1200
66.0	2242	2.803E-06	2.775E-05	1200
68.0	1591	1.989E-06	1.970E-05	1200
70.0	639	7.988E-07	7.908E-06	1200
72.0	385	4.823E-07	4.775E-06	1200
74.0	153	1.922E-07	1.902E-06	1200

CROSSWIND INTEGRATED* 9.454E-04 9.359E-03
 SEC/30,M 1/M

TEST USOF DECEMBER 5, 1966 1110 TO 1140 PST
 FLUORESCIN RELEASE FROM ELEVATION OF 20M
 1600M ARC SAMPLER HT 1.5M U= 9.9 M/SEC AT 20M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU,M X10E+6	E/Q SEC/CU,M	EU/Q 1/SQ,M	DISTANCE METERS
30.0	0	5.803E-10	5.745E-09	1600
34.0	0	4.069E-10	4.029E-09	1600
36.0	3	3.843E-09	3.805E-08	1600
38.0	0	5.803E-10	5.745E-09	1600
40.0	0	4.823E-10	4.775E-09	1600
42.0	0	3.843E-10	3.805E-09	1600
44.0	0	4.521E-10	4.476E-09	1600
46.0	54	6.782E-08	6.714E-07	1600
48.0	74	9.269E-08	9.176E-07	1600
50.0	223	2.788E-07	2.760E-06	1600
52.0	146	1.831E-07	1.813E-06	1600
54.0	90	1.130E-07	1.119E-06	1600
56.0	198	2.467E-07	2.462E-06	1600
58.0	735	9.194E-07	9.102E-06	1600
60.0	170	2.125E-07	2.104E-06	1600
62.0	1772	2.216E-06	2.193E-05	1600
64.0	1772	2.216E-06	2.193E-05	1600
66.0	1410	1.763E-06	1.746E-05	1600
68.0	831	1.040E-06	1.030E-05	1600
70.0	11	1.469E-08	1.455E-07	1600
72.0	5	7.460E-09	7.386E-08	1600
74.0	44	5.576E-08	5.521E-07	1600
76.0	4	6.029E-09	5.968E-08	1600
78.0	0	6.782E-10	6.714E-09	1600
80.0	0	5.426E-10	5.371E-09	1600
82.0	0	5.727E-10	5.670E-09	1600
84.0	0	4.597E-10	4.551E-09	1600

CROSSWIND INTEGRATED* 5.275E-04 5.222E-03
 SEC/30,M 1/M

UNSTABLE SERIES EXPERIMENT: 51 (U-51)
ZINC SULFIDE AND FLUORESCIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT 51. ZINC SULFIDE RESULTS ARE PRESENTED HERE. GROUND
LEVEL SAMPLING 100-1600 M ARC.

TEST U51 JANUARY 3, 1967 1220 TO 1250 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
100M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/C SEC/CU.M	F/U 1/SQ.M	DISTANCE METERS
40.0	8	1.042E-08	4.999E-08	100
40.0	95	1.239E-07	5.949E-07	100
48.0	99	1.292E-07	6.199E-07	100
52.0	324	4.208E-07	2.020E-06	100
56.0	191	1.312E-07	6.299E-07	100
60.0	2046	2.655E-06	1.274E-05	100
64.0	37	4.895E-08	2.350E-07	100
68.0	166	2.156E-07	1.035E-06	100
72.0	22	2.916E-08	1.400E-07	100
76.0	36	4.687E-08	2.250E-07	100
80.0	43	5.624E-08	2.700E-07	100
84.0	4	5.208E-09	2.500E-08	100
88.0	185	2.406E-07	1.155E-06	100
92.0	186	2.416E-07	1.160E-06	100

CROSSWIND INTEGRATED= 3.040E-05
SEC/SQ.M 1/M

TEST U51 JANUARY 3, 1967 1220 TO 1250 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/C SEC/CU.M	F/U 1/SQ.M	DISTANCE METERS
38.0	58	7.603E-08	3.650E-07	200
42.0	672	8.718E-07	4.184E-06	200
46.0	305	3.968E-07	1.905E-06	200
50.0	790	1.026E-06	4.924E-06	200
54.0	1231	1.597E-06	7.664E-06	200
58.0	2234	2.898E-06	1.391E-05	200
62.0	405	5.781E-07	2.775E-06	200
66.0	129	1.677E-07	8.049E-07	200
70.0	252	3.270E-07	1.570E-06	200
74.0	140	1.823E-07	8.749E-07	200
78.0	381	4.947E-07	2.375E-06	200
82.0	7	9.374E-09	4.499E-08	200
86.0	222	2.805E-07	1.385E-06	200
90.0	302	3.927E-07	1.885E-06	200
94.0	126	1.635E-07	7.849E-07	200
98.0	61	8.020E-08	3.850E-07	200

CROSSWIND INTEGRATED= 1.333E-04
SEC/SQ.M 1/M

TEST U51 JANUARY 3, 1967 1220 TO 1250 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
300M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/C SEC/CU.M	F/U 1/SQ.M	DISTANCE METERS
28.0	15	1.979E-08	9.099E-08	300
32.0	4	6.249E-09	3.000E-08	300
Q 36.0	75	9.790E-08	4.699E-07	300
40.0	13	1.771E-08	8.499E-08	300
44.0	399	5.187E-07	2.490E-06	300
48.0	508	7.114E-07	3.415E-06	300
52.0	468	6.072E-07	2.915E-06	300
56.0	2147	2.785E-06	1.337E-05	300
60.0	2747	3.563E-06	1.710E-05	300
64.0	3843	4.985E-06	2.393E-05	300
68.0	1400	1.816E-06	8.719E-06	300
Q 72.0	2717	3.525E-06	1.692E-05	300
76.0	1274	1.653E-06	7.934E-06	300
80.0	900	1.168E-06	5.604E-06	300
84.0	391	5.072E-07	2.435E-06	300
88.0	300	3.895E-07	1.870E-06	300
92.0	60	7.811E-08	3.750E-07	300
96.0	8	1.146E-08	5.499E-08	300

CROSSWIND INTEGRATED= 4.704E-04
SEC/SQ.M 1/M

TEST U51 JANUARY 3, 1967 1220 TO 1250 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/C SEC/CU.M	F/U 1/SQ.M	DISTANCE METERS
34.0	93	1.219E-07	5.849E-07	400
38.0	629	8.166E-07	3.919E-06	400
42.0	621	8.061E-07	3.870E-06	400
46.0	400	5.197E-07	2.495E-06	400
50.0	1188	1.541E-06	7.399E-06	400
54.0	1406	1.825E-06	8.759E-06	400
58.0	4406	5.716E-06	2.744E-05	400
62.0	2869	3.722E-06	1.787E-05	400
66.0	1703	4.804E-06	2.306E-05	400
70.0	1882	2.441E-06	1.172E-05	400
74.0	3307	4.290E-06	2.059E-05	400
78.0	2254	2.924E-06	1.403E-05	400
82.0	705	9.155E-07	4.394E-06	400
86.0	201	2.614E-07	1.255E-06	400
90.0	12	1.666E-08	7.999E-08	400

CROSSWIND INTEGRATED= 8.579E-04
SEC/SQ.M 1/M

TEST US1 JANUARY 3, 1967 1220 TO 1250 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
500M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
36.0	13	1.771E-08	8.499E-08	500
40.0	518	6.728E-07	3.230E-06	500
44.0	471	6.114E-07	2.935E-06	500
48.0	804	1.044E-06	5.009E-06	500
52.0	883	1.146E-06	5.499E-06	500
56.0	2709	3.514E-06	1.687E-05	500
60.0	2159	2.801E-06	1.344E-05	500
64.0	1357	1.760E-06	8.449E-06	500
68.0	2230	2.893E-06	1.389E-05	500
72.0	2150	2.789E-06	1.339E-05	500
76.0	2531	3.283E-06	1.576E-05	500
80.0	717	9.301E-07	4.464E-06	500
84.0	146	1.906E-07	9.149E-07	500

CROSSWIND INTEGRATED= 7.558E-04 SEC/SQ.M
3.628E-03 1/M

TEST US1 JANUARY 3, 1967 1220 TO 1250 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
600M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
30.0	467	6.062E-07	2.910E-06	600
34.0	498	6.468E-07	3.105E-06	600
38.0	310	4.031E-07	1.935E-06	600
42.0	390	5.062E-07	2.430E-06	600
46.0	464	6.030E-07	2.895E-06	600
50.0	594	7.707E-07	3.700E-06	600
54.0	1048	1.360E-06	6.529E-06	600
58.0	1991	2.583E-06	1.240E-05	600
62.0	1102	1.430E-06	6.864E-06	600
66.0	2805	3.639E-06	1.747E-05	600
70.0	1516	1.966E-06	9.439E-06	600
74.0	1794	2.328E-06	1.117E-05	600
78.0	818	1.061E-06	5.094E-06	600
82.0	134	1.739E-07	8.349E-07	600
86.0	14	1.875E-08	8.999E-08	600

CROSSWIND INTEGRATED= 7.580E-04 SEC/SQ.M
3.639E-03 1/M

TEST US1 JANUARY 3, 1967 1220 TO 1250 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
700M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
40.0	7	9.374E-09	4.499E-08	700
44.0	109	1.416E-07	6.799E-07	700
48.0	344	4.468E-07	2.145E-06	700
52.0	443	5.749E-07	2.760E-06	700
56.0	1142	1.482E-06	7.114E-06	700
60.0	880	1.143E-06	5.484E-06	700
64.0	1262	1.637E-06	7.859E-06	700
68.0	1252	1.625E-06	7.799E-06	700
72.0	1202	1.611E-06	7.734E-06	700
76.0	741	9.613E-07	4.614E-06	700
80.0	182	2.364E-07	1.135E-06	700
84.0	71	9.270E-08	4.449E-07	700

CROSSWIND INTEGRATED= 4.868E-04 SEC/SQ.M
2.337E-03 1/M

TEST US1 JANUARY 3, 1967 1220 TO 1250 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
43.0	33	4.374E-08	2.100E-07	800
46.0	249	3.239E-07	1.555E-06	800
49.0	305	3.954E-07	1.900E-06	800
52.0	319	4.145E-07	1.990E-06	800
55.0	527	6.843E-07	3.285E-06	800
58.0	822	1.067E-06	5.119E-06	800
61.0	1253	1.626E-06	7.804E-06	800
64.0	1026	1.331E-06	6.389E-06	800
67.0	1027	1.332E-06	6.394E-06	800
70.0	648	8.416E-07	4.039E-06	800
73.0	966	1.254E-06	6.019E-06	800
76.0	537	6.968E-07	3.345E-06	800
79.0	129	1.677E-07	8.049E-07	800
82.0	44	5.728E-08	2.750E-07	800
85.0	9	1.250E-08	5.999E-08	800

CROSSWIND INTEGRATED= 4.293E-04 SEC/SQ.M
2.060E-03 1/M

TEST US1 JANUARY 3, 1967 1220 TO 1250 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
44.0	9	1.204E-08	5.779E-08	1200
46.0	41	5.322E-08	2.555E-07	1200
48.0	79	1.024E-07	4.927E-07	1200
50.0	141	2.097E-07	1.007E-06	1200
52.0	21	3.041E-08	1.460E-07	1200
54.0	225	2.921E-07	1.402E-06	1200
56.0	220	2.858E-07	1.372E-06	1200
58.0	245	3.707E-07	1.779E-06	1200
60.0	240	3.384E-07	1.624E-06	1200
62.0	449	6.355E-07	3.051E-06	1200
64.0	529	6.862E-07	3.294E-06	1200
66.0	306	4.499E-07	2.159E-06	1200
68.0	221	2.770E-07	1.378E-06	1200
70.0	207	2.687E-07	1.290E-06	1200
72.0	207	2.687E-07	1.290E-06	1200
74.0	155	2.021E-07	9.702E-07	1200
76.0	47	1.134E-07	5.444E-07	1200
78.0	47	6.200E-08	2.981E-07	1200
80.0	34	4.435E-08	2.129E-07	1200
82.0	9	1.267E-08	6.083E-08	1200
84.0	0	6.336E-10	3.041E-09	1200
86.0	7	1.014E-08	4.866E-08	1200

CROSSWIND INTEGRATED= 1.980E-04 SEC/SQ.M
9.523E-04 1/M

TEST US1 JANUARY 3, 1967 1220 TO 1250 PST
 21°C SULFUR RELEASE FROM ELEVATION OF 26M
 160CM ARC SAMPLER HT 1.5M U= 0.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/D SEC/CU.M	E/D 1/80.M	DISTANCE METERS
44.0	6	8.237E-09	3.954E-08	1600
46.0	5	6.970E-09	3.346E-08	1600
48.0	31	4.055E-08	1.946E-07	1600
50.0	30	3.928E-08	1.886E-07	1600
52.0	46	8.681E-08	4.167E-07	1600
54.0	40	7.897E-08	3.771E-07	1600
56.0	13	1.774E-08	8.516E-08	1600
60.0	188	7.439E-07	1.171E-06	1600
62.0	117	1.527E-07	7.330E-07	1600
64.0	146	1.895E-07	9.094E-07	1600
66.0	125	1.622E-07	7.786E-07	1600
68.0	164	2.135E-07	1.025E-06	1600
70.0	76	9.885E-08	4.745E-07	1600
72.0	98	1.280E-07	6.144E-07	1600
74.0	91	1.185E-07	5.687E-07	1600
76.0	50	6.590E-08	3.163E-07	1600
78.0	13	1.774E-08	8.516E-08	1600
80.0	6	1.077E-08	5.170E-08	1600
CROSSHAIR INTEGRATED=		1.011E-04 SEC/80.M	0.854E-04 1/M	

UNSTABLE SERIES EXPERIMENT: 51F (U-51F)
 ZINC SULFIDE AND FLUORESCENIN WERE BOTH USED AS TRACERS DURING
 EXPERIMENT 51. FLUORESCENIN RESULTS ARE PRESENTED HERE. GROUND
 LEVEL SAMPLING ON ONLY THE 1600 M ARC.

TEST US1F JANUARY 3, 1967 1220 TO 1250 PST
 FLUORESCENIN RELEASE FROM ELEVATION OF 2M
 1600M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GN-SEC/CM ² X10E+6	F/D SEC/CM ²	EU/D 1/30,M	DISTANCE METERS
0.0	2	4.170E-09	2.502E-08	1600
18.0	2	5.015E-09	3.009E-08	1600
36.0	4	7.549E-09	4.529E-08	1600
54.0	4	8.061E-09	4.837E-08	1600
72.0	6	1.003E-08	6.099E-08	1600
90.0	19	3.309E-08	2.033E-07	1600
108.0	1	1.706E-09	1.072E-08	1600
126.0	121	2.124E-07	1.274E-06	1600
144.0	35	6.161E-08	3.696E-07	1600
162.0	181	3.177E-07	1.906E-06	1600
180.0	230	4.043E-07	2.426E-06	1600
198.0	305	5.352E-07	3.211E-06	1600
216.0	5	8.980E-09	5.368E-08	1600
234.0	1	2.447E-09	1.468E-08	1600
252.0	400	7.019E-07	4.211E-06	1600
270.0	307	6.781E-07	4.068E-06	1600
288.0	391	6.862E-07	4.117E-06	1600
306.0	277	4.864E-07	2.919E-06	1600
324.0	298	5.221E-07	3.133E-06	1600
342.0	168	2.957E-07	1.774E-06	1600
360.0	176	3.096E-07	1.858E-06	1600
378.0	117	2.051E-07	1.231E-06	1600
396.0	56	9.824E-08	5.895E-07	1600
414.0	30	5.255E-08	3.153E-07	1600
432.0	17	3.004E-08	1.803E-07	1600
450.0	2	3.854E-09	2.312E-08	1600
468.0	1	3.204E-09	1.923E-08	1600
486.0	1	2.252E-09	1.351E-08	1600
504.0	1	1.797E-09	1.078E-08	1600
CROSSHAIR INTEGRATED#		3.236E-04	1.942E-03	
		SEC/30,M	1/M	

UNSTABLE SERIES EXPERIMENT: 52 (U-52)
ZINC SULFIDE AND FLUORESCIEIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT 52. ZINC SULFIDE RESULTS ARE PRESENTED HERE. GROUND
LEVEL SAMPLING 100-1600 M ARCS.

TEST U-52 MARCH 20, 1967 1230 TO 1317 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
100M ARC SAMPLER HT 1.5M U= 9.1 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/8Q.M	DISTANCE METERS
28.0	56	4.156E-08	3.782E-07	100
32.0	55	4.022E-08	3.660E-07	100
36.0	90	6.614E-08	6.019E-07	100
40.0	69	5.050E-08	4.596E-07	100
44.0	42	3.084E-08	2.806E-07	100
48.0	50	3.665E-08	3.335E-07	100
52.0	160	1.171E-07	1.066E-06	100
56.0	158	1.158E-07	1.053E-06	100
60.0	96	7.017E-08	6.385E-07	100
64.0	26	1.922E-08	1.749E-07	100
68.0	75	5.497E-08	5.002E-07	100
72.0	30	2.190E-08	1.993E-07	100
C 76.0	0	0.000E+00	0.000E+00	100
C 80.0	7	5.810E-09	5.287E-08	100
C 84.0	14	1.028E-08	9.354E-08	100
C 88.0	7	5.810E-09	5.287E-08	100
92.0	4	3.575E-09	3.254E-08	100
96.0	10	7.598E-09	6.914E-08	100

CROSSWIND INTEGRATED= 4.874E-06 4.435E-05
SEC/80.M 1/M

TEST U-52 MARCH 20, 1967 1230 TO 1317 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 9.1 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/8Q.M	DISTANCE METERS
26.0	12	9.385E-09	8.541E-08	200
30.0	152	1.113E-07	1.013E-06	200
34.0	319	2.333E-07	2.123E-06	200
38.0	710	5.184E-07	4.718E-06	200
42.0	808	5.899E-07	5.368E-06	200
46.0	1935	1.412E-06	1.285E-05	200
50.0	1274	9.296E-07	8.459E-06	200
54.0	1206	8.800E-07	8.008E-06	200
58.0	2233	1.629E-06	1.483E-05	200
Q 62.0	465	3.392E-07	3.087E-06	200
Q 66.0	426	3.111E-07	2.831E-06	200
Q 70.0	229	1.676E-07	1.525E-06	200
Q 74.0	59	4.335E-08	3.945E-07	200
78.0	524	3.826E-07	3.481E-06	200
82.0	66	4.027E-08	4.392E-07	200
86.0	20	1.475E-08	1.342E-07	200

CROSSWIND INTEGRATED= 1.064E-04 9.682E-04
SEC/80.M 1/M

TEST U-52 MARCH 20, 1967 1230 TO 1317 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
300M ARC SAMPLER HT 1.5M U= 9.1 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/8Q.M	DISTANCE METERS
Q 28.0	13	9.832E-09	8.947E-08	300
Q 32.0	44	3.262E-08	2.969E-07	300
Q 36.0	147	1.077E-07	9.801E-07	300
40.0	319	2.328E-07	2.119E-06	300
44.0	2635	1.923E-06	1.750E-05	300
48.0	1181	8.616E-07	7.841E-06	300
52.0	2132	1.555E-06	1.415E-05	300
56.0	3385	2.470E-06	2.247E-05	300
60.0	3819	2.786E-06	2.535E-05	300
64.0	3443	2.512E-06	2.286E-05	300
68.0	1697	1.238E-06	1.127E-05	300
72.0	1688	1.231E-06	1.120E-05	300
76.0	1880	1.372E-06	1.248E-05	300
80.0	846	6.172E-07	5.616E-06	300
84.0	129	9.430E-08	8.581E-07	300
88.0	108	7.910E-08	7.198E-07	300

CROSSWIND INTEGRATED= 3.586E-04 3.263E-03
SEC/80.M 1/M

TEST U-52 MARCH 20, 1967 1230 TO 1317 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 9.1 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/8Q.M	DISTANCE METERS
C 26.0	102	7.509E-08	6.832E-07	400
30.0	205	1.497E-07	1.362E-06	400
34.0	827	6.038E-07	5.494E-06	400
38.0	1491	1.023E-06	9.305E-06	400
42.0	2416	1.763E-06	1.604E-05	400
46.0	2093	1.527E-06	1.390E-05	400
50.0	2374	1.732E-06	1.576E-05	400
54.0	5356	3.907E-06	3.555E-05	400
58.0	5803	4.233E-06	3.852E-05	400
W 62.0	6144	4.482E-06	4.079E-05	400
W 66.0	4344	3.169E-06	2.884E-05	400
W 70.0	2672	1.949E-06	1.774E-05	400
W 74.0	3410	2.488E-06	2.264E-05	400
78.0	2380	1.736E-06	1.580E-05	400
82.0	675	4.925E-07	4.482E-06	400
86.0	6	4.469E-09	4.067E-08	400

CROSSWIND INTEGRATED= 8.192E-04 7.454E-03
SEC/80.M 1/M

TEST U-52 MARCH 20, 1967 1230 TO 1317 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
500M ARC SAMPLER HT 1.5M U= 9.1 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/80.M	DISTANCE METERS
28.0	65	4.762E-08	4.352E-07	500
32.0	273	1.998E-07	1.818E-06	500
36.0	403	3.236E-07	2.944E-06	500
40.0	2026	1.478E-06	1.345E-05	500
44.0	2189	1.597E-06	1.453E-05	500
48.0	2298	1.676E-06	1.525E-05	500
52.0	3544	2.585E-06	2.353E-05	500
56.0	3058	2.231E-06	2.030E-05	500
60.0	3357	2.449E-06	2.228E-05	500
64.0	3332	2.431E-06	2.212E-05	500
68.0	2490	1.816E-06	1.653E-05	500
72.0	1545	1.127E-06	1.026E-05	500
76.0	1888	1.377E-06	1.253E-05	500
80.0	717	5.233E-07	4.762E-06	500
84.0	99	7.240E-08	6.588E-07	500

CROSSWIND INTEGRATED= 6.958E-04 SEC/80.M
6.332E-03 1/M

TEST U-52 MARCH 20, 1967 1230 TO 1317 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
600M ARC SAMPLER HT 1.5M U= 9.1 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/80.M	DISTANCE METERS
26.0	11	8.491E-09	7.727E-08	600
30.0	113	8.268E-08	7.524E-07	600
34.0	344	2.516E-07	2.290E-06	600
38.0	591	8.317E-07	3.929E-06	600
42.0	1486	1.084E-06	9.846E-06	600
46.0	1546	1.128E-06	1.026E-05	600
50.0	1961	1.431E-06	1.302E-05	600
54.0	2590	1.890E-06	1.719E-05	600
58.0	4374	3.191E-06	2.904E-05	600
62.0	5064	3.694E-06	3.361E-05	600
66.0	4322	3.153E-06	2.869E-05	600
70.0	1431	1.044E-06	9.504E-06	600
74.0	1762	1.245E-06	1.170E-05	600
78.0	1985	1.448E-06	1.318E-05	600
82.0	411	3.003E-07	2.733E-06	600

CROSSWIND INTEGRATED= 8.555E-04 SEC/80.M
7.785E-03 1/M

TEST U-52 MARCH 20, 1967 1230 TO 1317 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
700M ARC SAMPLER HT 1.5M U= 9.1 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/80.M	DISTANCE METERS
28.0	50	3.665E-08	3.335E-07	700
32.0	274	2.002E-07	1.822E-06	700
36.0	515	3.763E-07	3.424E-06	700
40.0	1172	8.558E-07	7.784E-06	700
44.0	1605	1.171E-06	1.066E-05	700
48.0	1591	1.161E-06	1.057E-05	700
52.0	2238	1.833E-06	1.686E-05	700
56.0	4191	3.057E-06	2.782E-05	700
60.0	3276	2.390E-06	2.175E-05	700
64.0	3306	2.412E-06	2.195E-05	700
68.0	1881	1.372E-06	1.249E-05	700
72.0	1510	1.102E-06	1.003E-05	700
76.0	1118	8.156E-07	7.422E-06	700
80.0	916	6.686E-07	6.084E-06	700
84.0	43	3.173E-08	2.888E-07	700

CROSSWIND INTEGRATED= 8.446E-04 SEC/80.M
7.686E-03 1/M

TEST U-52 MARCH 20, 1967 1230 TO 1317 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 9.1 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/80.M	DISTANCE METERS
28.0	9	6.704E-09	6.100E-08	800
31.0	117	8.536E-08	7.768E-07	800
34.0	116	8.491E-08	7.727E-07	800
37.0	332	2.427E-07	2.208E-06	800
40.0	717	5.233E-07	4.762E-06	800
43.0	1220	8.903E-07	8.101E-06	800
46.0	675	4.929E-07	4.486E-06	800
49.0	1617	1.180E-06	1.074E-05	800
52.0	1801	1.314E-06	1.196E-05	800
55.0	2129	1.553E-06	1.414E-05	800
58.0	2564	1.870E-06	1.702E-05	800
61.0	2979	2.173E-06	1.978E-05	800
64.0	3171	2.313E-06	2.105E-05	800
67.0	1480	1.080E-06	9.830E-06	800
70.0	1235	9.014E-07	8.203E-06	800
73.0	1332	9.720E-07	8.846E-06	800
76.0	997	7.276E-07	6.621E-06	800
79.0	713	5.202E-07	4.734E-06	800
82.0	325	2.373E-07	2.160E-06	800
85.0	11	8.491E-09	7.727E-08	800

CROSSWIND INTEGRATED= 7.195E-04 SEC/80.M
6.548E-03 1/M

TEST U-52 MARCH 20, 1967 1230 TO 1317 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 9.1 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
30.0	18	1.360E-08	1.237E-07	1200
32.0	41	3.015E-08	2.743E-07	1200
34.0	21	1.566E-08	1.426E-07	1200
36.0	55	4.049E-08	3.685E-07	1200
38.0	113	8.276E-08	7.531E-07	1200
40.0	233	1.765E-07	1.552E-06	1200
42.0	203	1.481E-07	1.348E-06	1200
44.0	173	1.265E-07	1.151E-06	1200
46.0	109	7.951E-08	7.235E-07	1200
48.0	304	2.515E-07	2.289E-06	1200
50.0	540	3.943E-07	3.588E-06	1200
52.0	170	1.244E-07	1.132E-06	1200
54.0	604	4.410E-07	4.013E-06	1200
56.0	995	7.259E-07	6.606E-06	1200
58.0	667	4.868E-07	4.430E-06	1200
60.0	656	4.788E-07	4.357E-06	1200
62.0	581	4.241E-07	3.860E-06	1200
64.0	594	4.368E-07	3.975E-06	1200
66.0	504	3.680E-07	3.349E-06	1200
68.0	431	3.148E-07	2.864E-06	1200
70.0	344	2.515E-07	2.289E-06	1200
72.0	267	1.948E-07	1.772E-06	1200
74.0	187	1.368E-07	1.245E-06	1200
76.0	175	1.280E-07	1.165E-06	1200
78.0	172	1.259E-07	1.146E-06	1200
80.0	277	2.028E-07	1.845E-06	1200
82.0	40	2.985E-08	2.717E-07	1200
84.0	16	1.182E-08	1.076E-07	1200
86.0	18	1.360E-08	1.237E-07	1200

CROSSWIND INTEGRATED= 2.593E-04 2.360E-03
SEC/SQ.M 1/M

TEST U-52 MARCH 20, 1967 1230 TO 1317 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 9.1 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
32.0	11	8.571E-09	7.800E-08	1600
34.0	15	1.153E-08	1.049E-07	1600
36.0	23	1.685E-08	1.533E-07	1600
38.0	43	3.163E-08	2.878E-07	1600
40.0	117	8.601E-08	7.827E-07	1600
42.0	141	1.029E-07	9.360E-07	1600
44.0	158	1.156E-07	1.052E-06	1600
46.0	149	1.048E-07	9.898E-07	1600
48.0	230	1.685E-07	1.533E-06	1600
50.0	273	1.998E-07	1.818E-06	1600
52.0	259	1.892E-07	1.721E-06	1600
54.0	290	2.116E-07	1.926E-06	1600
56.0	523	3.816E-07	3.472E-06	1600
58.0	561	4.097E-07	3.728E-06	1600
60.0	456	3.328E-07	3.029E-06	1600
62.0	500	3.650E-07	3.322E-06	1600
64.0	438	3.201E-07	2.913E-06	1600
66.0	414	3.021E-07	2.749E-06	1600
68.0	338	2.968E-07	2.246E-06	1600
70.0	335	2.444E-07	2.224E-06	1600
72.0	194	1.419E-07	1.291E-06	1600
74.0	104	7.655E-08	6.966E-07	1600
76.0	144	1.348E-07	1.226E-06	1600
78.0	87	6.355E-08	5.783E-07	1600
80.0	89	6.532E-08	5.944E-07	1600
82.0	4	3.547E-09	3.228E-08	1600

CROSSWIND INTEGRATED= 2.423E-04 2.205E-03
SEC/SQ.M 1/M

UNSTABLE SERIES EXPERIMENT: 52F (U-52F)
ZINC SULFIDE AND FLUORESCIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT 52. FLUORESCIN RESULTS ARE PRESENTED HERE. GROUND
LEVEL SAMPLING 100-1200 M ARC.

TEST US2F MARCH 20, 1967 1230 TO 1317 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
100M ARC SAMPLER HT 1.5M U= 6.8 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/30.M	DISTANCE METERS
58.0	24561	2.149E-05	1.461E-04	100
62.0	43014	3.763E-05	2.559E-04	100
66.0	86900	7.603E-05	5.170E-04	100
70.0	71692	6.272E-05	4.265E-04	100
70.0	71692	6.272E-05	4.265E-04	100
74.0	130351	1.140E-04	7.755E-04	100
Z 78.0	2540	2.222E-06	1.511E-05	100
82.0	178147	1.559E-04	1.060E-03	100
86.0	173801	1.521E-04	1.034E-03	100
90.0	108625	9.504E-05	6.462E-04	100
94.0	178147	1.559E-04	1.060E-03	100
98.0	141213	1.235E-04	8.401E-04	100
102.0	11947	1.045E-05	7.108E-05	100
Q 106.0	180319	1.578E-04	1.073E-03	100
Q 110.0	128178	1.121E-04	7.626E-04	100
Q 114.0	31283	2.737E-05	1.861E-04	100
Q 118.0	2722	2.382E-06	1.619E-05	100
122.0	30	2.695E-08	1.833E-07	100
126.0	10	8.794E-09	5.980E-08	100

CROSSWIND INTEGRATED= 9.122E-03
SEC/30.M 6.203E-02
1/M

TEST US2F MARCH 20, 1967 1230 TO 1317 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
300M ARC SAMPLER HT 1.5M U= 6.8 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/30.M	DISTANCE METERS
46.0	0	0.000E+00	0.000E+00	300
50.0	38	3.338E-08	2.270E-07	300
54.0	615	5.384E-07	3.661E-06	300
58.0	2	2.364E-09	1.608E-08	300
62.0	44	3.905E-08	2.656E-07	300
66.0	32	2.865E-08	1.948E-07	300
70.0	177	1.554E-07	1.057E-06	300
74.0	14736	1.289E-05	8.767E-05	300
78.0	12771	1.117E-05	7.598E-05	300
82.0	31657	2.770E-05	1.883E-04	300
86.0	29474	2.579E-05	1.754E-04	300
90.0	32749	2.865E-05	1.948E-04	300
94.0	28382	2.483E-05	1.689E-04	300
98.0	14409	1.261E-05	8.573E-05	300
102.0	15666	1.633E-05	1.111E-04	300
106.0	25544	2.235E-05	1.520E-04	300
110.0	11134	9.741E-06	6.624E-05	300
114.0	1069	9.355E-07	6.362E-06	300
118.0	12	1.125E-08	7.652E-08	300
122.0	4	4.066E-09	2.765E-08	300
126.0	3	3.026E-09	2.058E-08	300

CROSSWIND INTEGRATED= 4.059E-03
SEC/30.M 2.760E-02
1/M

TEST US2F MARCH 20, 1967 1230 TO 1317 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 6.8 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/30.M	DISTANCE METERS
48.0	11	1.007E-08	6.848E-08	200
52.0	820	7.174E-07	4.878E-06	200
56.0	1460	1.715E-06	1.166E-05	200
60.0	7167	6.271E-06	4.264E-05	200
64.0	12164	1.064E-05	7.237E-05	200
68.0	28676	2.509E-05	1.706E-04	200
72.0	31934	2.794E-05	1.900E-04	200
76.0	41059	3.592E-05	2.443E-04	200
80.0	5017	4.389E-06	2.985E-05	200
84.0	44970	3.934E-05	2.675E-04	200
88.0	55398	4.847E-05	3.296E-04	200
Q 92.0	1282	1.122E-06	7.631E-06	200
Q 96.0	1032	9.037E-07	6.145E-06	200
Q 100.0	925	8.101E-07	5.509E-06	200
Q 104.0	841	7.363E-07	5.007E-06	200
108.0	45621	3.991E-05	2.714E-04	200
112.0	2031	1.777E-06	1.209E-05	200
116.0	647	5.661E-07	3.850E-06	200
120.0	8	7.707E-09	5.241E-08	200

CROSSWIND INTEGRATED= 3.440E-03
SEC/30.M 2.339E-02
1/M

TEST US2F MARCH 20, 1967 1230 TO 1317 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
400M ARC SAMPLER HT 1.5M U= 6.8 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/30.M	DISTANCE METERS
48.0	2	1.901E-09	1.293E-08	400
52.0	55	4.866E-08	3.309E-07	400
56.0	615	5.385E-07	3.662E-06	400
60.0	1274	1.115E-06	7.584E-06	400
64.0	1474	1.290E-06	8.774E-06	400
68.0	5894	5.157E-06	3.507E-05	400
72.0	8514	7.449E-06	5.065E-05	400
76.0	5676	4.966E-06	3.377E-05	400
80.0	7859	6.876E-06	4.676E-05	400
84.0	12444	1.089E-05	7.404E-05	400
88.0	17029	1.490E-05	1.013E-04	400
92.0	16702	1.461E-05	9.936E-05	400
96.0	13754	1.203E-05	8.183E-05	400
100.0	10807	9.455E-06	6.429E-05	400
104.0	11462	1.003E-05	6.819E-05	400
108.0	12117	1.060E-05	7.209E-05	400
112.0	2450	2.144E-06	1.458E-05	400
116.0	32	2.880E-08	1.959E-07	400
120.0	4	4.123E-09	2.804E-08	400

CROSSWIND INTEGRATED= 3.131E-03
SEC/30.M 2.129E-02
1/M

TEST US2F MARCH 20, 1967 1230 TO 1317 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
500M ARC SAMPLER HT 1.5M U= 6.8 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
50.0	1	1.371E-09	9.324E-09	500
54.0	132	1.158E-07	7.873E-07	500
58.0	712	6.236E-07	4.240E-06	500
62.0	950	8.316E-07	5.655E-06	500
66.0	1815	1.588E-06	1.080E-05	500
70.0	6003	5.253E-06	3.572E-05	500
74.0	4038	3.533E-06	2.403E-05	500
78.0	4693	4.106E-06	2.792E-05	500
82.0	6549	5.730E-06	3.896E-05	500
86.0	8732	7.640E-06	5.195E-05	500
90.0	11461	1.003E-05	6.819E-05	500
94.0	7531	6.590E-06	4.481E-05	500
98.0	6986	6.112E-06	4.156E-05	500
102.0	4911	4.297E-06	2.922E-05	500
106.0	6112	5.348E-06	3.637E-05	500
110.0	3267	2.859E-06	1.944E-05	500
114.0	213	1.867E-07	1.270E-06	500
118.0	1	1.541E-09	1.048E-08	500

CROSSWIND INTEGRATED= 2.264E-03 SEC/SQ.M 1.539E-02 1/M

TEST US2F MARCH 20, 1967 1230 TO 1317 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
700M ARC SAMPLER HT 1.5M U= 6.8 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
54.0	1	1.466E-09	9.967E-09	700
58.0	129	1.131E-07	7.691E-07	700
62.0	485	4.252E-07	2.891E-06	700
66.0	464	4.062E-07	2.762E-06	700
70.0	2314	2.025E-06	1.377E-05	700
74.0	2314	2.025E-06	1.377E-05	700
78.0	2314	2.025E-06	1.377E-05	700
82.0	2723	2.383E-06	1.620E-05	700
86.0	4357	3.812E-06	2.592E-05	700
90.0	4357	3.812E-06	2.592E-05	700
94.0	4357	3.812E-06	2.592E-05	700
98.0	3880	3.395E-06	2.309E-05	700
102.0	2382	2.085E-06	1.418E-05	700
106.0	2246	1.966E-06	1.337E-05	700
110.0	2587	2.263E-06	1.539E-05	700
114.0	126	1.103E-07	7.499E-07	700

CROSSWIND INTEGRATED= 1.498E-03 SEC/SQ.M 1.019E-02 1/M

TEST US2F MARCH 20, 1967 1230 TO 1317 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
600M ARC SAMPLER HT 1.5M U= 6.8 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
48.0	0	9.456E-11	6.430E-10	600
52.0	0	6.241E-10	4.244E-09	600
56.0	167	1.470E-07	9.995E-07	600
60.0	550	4.817E-07	3.276E-06	600
64.0	476	4.165E-07	2.832E-06	600
68.0	2723	2.382E-06	1.620E-05	600
72.0	2815	2.464E-06	1.675E-05	600
76.0	3165	2.769E-06	1.883E-05	600
80.0	2837	2.483E-06	1.688E-05	600
84.0	4802	4.202E-06	2.857E-05	600
88.0	7204	6.303E-06	4.286E-05	600
92.0	8077	7.067E-06	4.806E-05	600
96.0	5566	4.870E-06	3.312E-05	600
100.0	3820	3.342E-06	2.273E-05	600
104.0	3601	3.151E-06	2.143E-05	600
108.0	4357	3.812E-06	2.592E-05	600
112.0	975	8.534E-07	5.803E-06	600
116.0	39	3.445E-08	2.343E-07	600
120.0	0	6.241E-10	4.244E-09	600

CROSSWIND INTEGRATED= 1.876E-03 SEC/SQ.M 1.276E-02 1/M

TEST US2F MARCH 20, 1967 1230 TO 1317 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 6.8 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
55.0	1	1.627E-09	1.106E-08	800
58.0	31	2.792E-08	1.899E-07	800
61.0	249	2.180E-07	1.482E-06	800
64.0	271	2.379E-07	1.617E-06	800
67.0	469	4.106E-07	2.792E-06	800
70.0	1815	1.588E-06	1.080E-05	800
73.0	1724	1.509E-06	1.026E-05	800
76.0	1202	1.052E-06	7.154E-06	800
79.0	1974	1.727E-06	1.175E-05	800
82.0	1724	1.509E-06	1.026E-05	800
85.0	2518	2.284E-06	1.499E-05	800
88.0	3063	2.680E-06	1.823E-05	800
91.0	3880	3.395E-06	2.309E-05	800
94.0	3744	3.276E-06	2.228E-05	800
97.0	2791	2.442E-06	1.661E-05	800
100.0	2382	2.085E-06	1.418E-05	800
103.0	1974	1.727E-06	1.175E-05	800
Q 106.0	1497	1.310E-06	8.909E-06	800
Q 109.0	1792	1.568E-06	1.066E-05	800
Q 112.0	950	8.317E-07	5.656E-06	800
Q 115.0	41	3.644E-08	2.478E-07	800
118.0	20	1.766E-08	1.201E-07	800

CROSSWIND INTEGRATED= 1.251E-03 SEC/SQ.M 8.504E-03 1/M

TEST U52F MARCH 20, 1967 1230 TO 1317 PST
 FLUORESCIN RELEASE FROM ELEVATION OF 2M
 1200M ARC SAMPLER MT 1.5M U= 6.8 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/8Q.M	DISTANCE METERS
56.0	0	7.912E-10	5.380E-09	1200
58.0	2	2.532E-09	1.722E-08	1200
60.0	2	1.846E-09	1.255E-08	1200
62.0	102	8.935E-08	6.076E-07	1200
64.0	54	4.726E-08	3.214E-07	1200
66.0	78	6.838E-08	4.645E-07	1200
68.0	174	1.525E-07	1.037E-06	1200
70.0	379	3.319E-07	2.257E-06	1200
72.0	531	4.648E-07	3.161E-06	1200
74.0	341	2.987E-07	2.031E-06	1200
76.0	316	2.765E-07	1.880E-06	1200
78.0	162	1.425E-07	9.691E-07	1200
80.0	607	5.313E-07	3.613E-06	1200
82.0	162	1.425E-07	9.691E-07	1200
84.0	721	6.310E-07	4.291E-06	1200
86.0	455	3.984E-07	2.709E-06	1200
88.0	999	8.746E-07	5.948E-06	1200
90.0	1050	9.190E-07	6.249E-06	1200
92.0	1037	9.079E-07	6.174E-06	1200
94.0	1202	1.052E-06	7.153E-06	1200
96.0	987	8.636E-07	5.872E-06	1200
98.0	885	7.750E-07	5.270E-06	1200
100.0	695	6.088E-07	4.140E-06	1200
102.0	518	4.538E-07	3.086E-06	1200
104.0	430	3.762E-07	2.558E-06	1200
106.0	430	3.762E-07	2.558E-06	1200
108.0	354	3.098E-07	2.106E-06	1200
110.0	632	5.534E-07	3.763E-06	1200
112.0	124	1.093E-07	7.431E-07	1200
114.0	11	1.026E-08	6.979E-08	1200
116.0	1	1.514E-09	1.029E-08	1200

CROSSHAIR INTEGRATED= 4.931E-04 3.353E-03
 SEC/9Q.M 1/M

UNSTABLE SERIES EXPERIMENT: 53 (U-53)
ZINC SULFIDE AND FLUORESCIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT 53. ZINC SULFIDE RESULTS ARE PRESENTED HERE. GROUND
LEVEL SAMPLING 100-1600 M ARC.

TEST U-53 MARCH 23, 1967 1021 TO 1121 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
100M ARC SAMPLER HT 1.5M U=15.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU,M X10E+6	E/Q SEC/CU,M	EU/Q 1/SQ,M	DISTANCE METERS
28.0	5	3.498E-09	5.527E-08	100
32.0	13	7.804E-09	1.233E-07	100
36.0	14	8.342E-09	1.318E-07	100
40.0	15	9.149E-09	1.446E-07	100
44.0	15	9.149E-09	1.446E-07	100
48.0	26	1.561E-08	2.466E-07	100
52.0	15	9.149E-09	1.446E-07	100
56.0	17	9.957E-09	1.573E-07	100
60.0	9	5.382E-09	8.503E-08	100
64.0	10	5.920E-09	9.354E-08	100
68.0	14	8.342E-09	1.318E-07	100
72.0	8	4.844E-09	7.653E-08	100
76.0	8	4.844E-09	7.653E-08	100
80.0	7	4.306E-09	6.803E-08	100
84.0	8	5.113E-09	8.078E-08	100

CROSSWIND INTEGRATED= 7.778E-07 1.229E-05
SEC/SQ,M 1/M

TEST U-53 MARCH 23, 1967 1021 TO 1121 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U=15.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU,M X10E+6	E/Q SEC/CU,M	EU/Q 1/SQ,M	DISTANCE METERS
14.0	18	1.074E-08	1.701E-07	200
18.0	53	3.122E-08	4.932E-07	200
22.0	59	3.444E-08	5.442E-07	200
26.0	78	4.575E-08	7.228E-07	200
30.0	118	6.889E-08	1.088E-06	200
34.0	114	6.701E-08	1.059E-06	200
38.0	176	1.028E-07	1.624E-06	200
42.0	76	4.467E-08	7.058E-07	200
46.0	51	2.987E-08	4.719E-07	200
50.0	37	2.207E-08	3.486E-07	200
54.0	47	2.745E-08	4.337E-07	200
58.0	50	2.933E-08	4.634E-07	200
62.0	29	1.749E-08	2.764E-07	200
66.0	24	1.426E-08	2.253E-07	200
70.0	23	1.399E-08	2.211E-07	200
74.0	8	5.113E-09	8.078E-08	200
78.0	9	5.651E-09	8.929E-08	200

CROSSWIND INTEGRATED= 7.969E-06 1.259E-04
SEC/SQ,M 1/M

TEST U-53 MARCH 23, 1967 1021 TO 1121 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
300M ARC SAMPLER HT 1.5M U=15.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU,M X10E+6	E/Q SEC/CU,M	EU/Q 1/SQ,M	DISTANCE METERS
16.0	62	3.633E-08	5.740E-07	300
20.0	60	3.525E-08	5.570E-07	300
24.0	165	9.634E-08	1.522E-06	300
28.0	266	1.555E-07	2.458E-06	300
32.0	303	1.773E-07	2.802E-06	300
36.0	228	1.332E-07	2.105E-06	300
40.0	260	1.520E-07	2.402E-06	300
X 44.0	75	4.386E-08	6.930E-07	300
X 48.0	83	4.898E-08	7.738E-07	300
X 52.0	71	4.144E-08	6.548E-07	300
X 56.0	30	1.776E-08	2.806E-07	300
60.0	49	2.906E-08	4.592E-07	300
64.0	41	2.449E-08	3.869E-07	300
68.0	15	9.149E-09	1.446E-07	300
72.0	10	5.920E-09	9.354E-08	300
76.0	26	1.561E-08	2.466E-07	300
80.0	8	4.844E-09	7.653E-08	300

CROSSWIND INTEGRATED= 2.151E-05 3.399E-04
SEC/SQ,M 1/M

TEST U-53 MARCH 23, 1967 1021 TO 1121 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U=15.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU,M X10E+6	E/Q SEC/CU,M	EU/Q 1/SQ,M	DISTANCE METERS
14.0	10	6.189E-09	9.779E-08	400
18.0	56	3.310E-08	5.230E-07	400
22.0	116	6.808E-08	1.076E-06	400
26.0	224	1.311E-07	2.071E-06	400
30.0	246	1.437E-07	2.270E-06	400
34.0	258	1.507E-07	2.381E-06	400
38.0	566	3.305E-07	5.221E-06	400
42.0	232	1.354E-07	2.139E-06	400
46.0	210	1.227E-07	1.939E-06	400
50.0	101	5.893E-08	9.311E-07	400
54.0	88	5.167E-08	8.163E-07	400
58.0	97	3.364E-08	5.315E-07	400
62.0	87	5.086E-08	8.036E-07	400
66.0	86	5.059E-08	7.993E-07	400
70.0	21	1.265E-08	1.998E-07	400
74.0	6	4.036E-09	6.378E-08	400
78.0	11	6.997E-09	1.105E-07	400
82.0	6	3.767E-09	5.952E-08	400
86.0	6	3.767E-09	5.952E-08	400

CROSSWIND INTEGRATED= 3.905E-05 6.169E-04
SEC/SQ,M 1/M

TEST U-53 MARCH 23, 1967 1021 TO 1121 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
500M ARC SAMPLER HT 1.5M U=15.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 16.0	33	1.968E-08	3.104E-07	500
20.0	145	4.477E-08	1.339E-06	500
24.0	421	2.460E-07	3.886E-06	500
28.0	556	3.245E-07	5.128E-06	500
32.0	923	5.387E-07	8.512E-06	500
36.0	752	4.389E-07	6.935E-06	500
40.0	826	4.825E-07	7.623E-06	500
44.0	360	2.104E-07	3.325E-06	500
48.0	285	1.663E-07	2.628E-06	500
52.0	172	1.009E-07	1.594E-06	500
56.0	146	8.530E-08	1.348E-06	500
60.0	85	5.005E-08	7.908E-07	500
64.0	74	4.332E-08	6.845E-07	500
68.0	50	2.933E-08	4.634E-07	500
72.0	1	1.076E-09	1.701E-08	500
76.0	7	4.575E-09	7.228E-08	500

CROSSWIND INTEGRATED= 9.866E-05 1.559E-03
SEC/SQ.M 1/M

TEST U-53 MARCH 23, 1967 1021 TO 1121 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
600M ARC SAMPLER HT 1.5M U=15.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
18.0	47	2.745E-08	4.337E-07	600
22.0	244	1.429E-07	2.258E-06	600
26.0	586	3.423E-07	5.408E-06	600
30.0	902	5.264E-07	8.316E-06	600
34.0	1034	6.033E-07	9.532E-06	600
38.0	720	4.203E-07	6.641E-06	600
42.0	436	2.546E-07	4.022E-06	600
N 46.0	137	8.046E-08	1.271E-06	600
50.0	295	1.725E-07	2.725E-06	600
54.0	159	9.311E-08	1.471E-06	600
58.0	130	7.615E-08	1.203E-06	600
62.0	37	2.207E-08	3.486E-07	600
66.0	100	5.439E-08	9.226E-07	600

CROSSWIND INTEGRATED= 1.141E-04 1.866E-03
SEC/SQ.M 1/M

TEST U-53 MARCH 23, 1967 1021 TO 1121 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
700M ARC SAMPLER HT 1.5M U=15.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
16.0	19	1.157E-08	1.828E-07	700
20.0	198	1.157E-07	1.828E-06	700
24.0	582	3.399E-07	5.370E-06	700
28.0	795	4.642E-07	7.334E-06	700
32.0	1418	8.277E-07	1.308E-05	700
36.0	810	4.728E-07	7.470E-06	700
40.0	689	4.020E-07	6.352E-06	700
44.0	300	1.752E-07	2.768E-06	700
48.0	249	1.453E-07	2.296E-06	700
52.0	250	1.464E-07	2.313E-06	700
56.0	142	8.315E-08	1.314E-06	700
60.0	39	2.287E-08	3.614E-07	700
64.0	77	4.548E-08	7.185E-07	700
68.0	12	7.535E-09	1.190E-07	700

CROSSWIND INTEGRATED= 1.593E-04 2.517E-03
SEC/SQ.M 1/M

TEST U-53 MARCH 23, 1967 1021 TO 1121 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U=15.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
19.0	47	2.799E-08	4.422E-07	800
22.0	125	7.319E-08	1.156E-06	800
25.0	310	1.811E-07	2.861E-06	800
28.0	526	3.070E-07	4.851E-06	800
31.0	648	3.744E-07	5.978E-06	800
34.0	577	3.372E-07	5.327E-06	800
37.0	643	3.757E-07	5.935E-06	800
40.0	214	1.251E-07	1.977E-06	800
F 43.0	370	2.161E-07	3.414E-06	800
Q 46.0	192	1.122E-07	1.773E-06	800
49.0	171	1.001E-07	1.582E-06	800
52.0	191	1.119E-07	1.769E-06	800
55.0	83	4.871E-08	7.696E-07	800
58.0	13	8.073E-09	1.276E-07	800
61.0	27	1.615E-08	2.551E-07	800
64.0	33	1.964E-08	3.104E-07	800
67.0	38	2.234E-08	3.529E-07	800

CROSSWIND INTEGRATED= 1.031E-04 1.629E-03
SEC/SQ.M 1/M

TEST U-53 MARCH 23, 1967 1021 TO 1121 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U=15.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
16.0	43	2.526E-08	3.990E-07	1200
18.0	18	1.069E-08	1.688E-07	1200
20.0	35	2.079E-08	3.284E-07	1200
22.0	67	3.963E-08	6.262E-07	1200
24.0	223	1.302E-07	2.057E-06	1200
26.0	292	1.704E-07	2.692E-06	1200
28.0	436	2.549E-07	4.027E-06	1200
30.0	680	3.969E-07	6.271E-06	1200
32.0	627	3.662E-07	5.766E-06	1200
34.0	611	3.567E-07	5.636E-06	1200
36.0	503	2.939E-07	4.644E-06	1200
38.0	290	1.694E-07	2.677E-06	1200
40.0	331	1.933E-07	3.054E-06	1200
42.0	329	1.923E-07	3.039E-06	1200
44.0	183	1.069E-07	1.688E-06	1200
46.0	231	1.350E-07	2.133E-06	1200
48.0	101	5.945E-08	9.393E-07	1200
50.0	85	5.012E-08	7.919E-07	1200
52.0	81	4.760E-08	7.520E-07	1200
54.0	27	1.593E-08	2.517E-07	1200
56.0	16	9.520E-09	1.504E-07	1200
58.0	76	4.468E-08	7.060E-07	1200
60.0	16	9.520E-09	1.504E-07	1200
62.0	8	5.051E-09	7.981E-08	1200
64.0	4	2.720E-09	4.297E-08	1200
66.0	3	2.331E-09	3.683E-08	1200

CROSSWIND INTEGRATED= 1.302E-04 2.058E-03
SEC/SQ.M 1/M

TFST U-53 MARCH 23, 1967 1021 TO 1121 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
 1600M ARC SAMPLER HT 1.5M U=15.0 M/SFC AT 26M

AZIMUTH DEGRFFS	EXPOSURE GM-SEC/CU,M X10E+6	E/Q SEC/CU,M	EU/Q 1/80,M	DISTANCE METERS
16.0	3	1.943E-09	3.070E-08	1600
18.0	5	3.188E-09	4.911E-08	1600
20.0	17	1.030E-08	1.627E-07	1600
22.0	32	1.923E-08	3.039E-07	1600
24.0	26	1.535E-08	2.425E-07	1600
26.0	124	7.247E-08	1.145E-06	1600
28.0	239	1.395E-07	2.204E-06	1600
30.0	183	1.070E-07	1.691E-06	1600
32.0	297	1.735E-07	2.741E-06	1600
34.0	212	1.241E-07	1.961E-06	1600
36.0	154	9.014E-08	1.424E-06	1600
38.0	179	1.049E-07	1.658E-06	1600
40.0	175	1.026E-07	1.621E-06	1600
42.0	116	6.800E-08	1.074E-06	1600
44.0	87	5.109E-08	8.073E-07	1600
46.0	69	4.041E-08	6.385E-07	1600
48.0	76	4.488E-08	7.091E-07	1600
50.0	46	2.739E-08	4.328E-07	1600
52.0	18	1.048E-08	1.719E-07	1600
54.0	17	1.010E-08	1.596E-07	1600
56.0	8	5.051E-09	7.981E-08	1600
58.0	5	3.497E-09	5.525E-08	1600
60.0	4	2.914E-09	4.604E-08	1600
62.0	5	3.497E-09	5.525E-08	1600

CROSSWIND INTEGRATED= 6.533E-05 1.032E-03
 SEC/80,M 1/M

UNSTABLE SERIES EXPERIMENT: 53F (U-53F)
ZINC SULFIDE AND FLUORESCIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT 51. FLUORESCIN RESULTS ARE PRESENTED HERE. GROUND
LEVEL SAMPLING 100-1200 M ARC.

TEST US3F MARCH 23, 1967 1021 TO 1121 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
100M ARC SAMPLER HT 1.5M U= 8.9 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
42.0	1722	1.138E-06	1.013E-05	100
46.0	7312	4.830E-06	4.298E-05	100
50.0	3381	2.234E-06	1.988E-05	100
54.0	2176	1.438E-06	1.280E-05	100
58.0	1132	7.482E-07	6.659E-06	100
62.0	7639	5.046E-06	4.491E-05	100
66.0	7202	4.758E-06	4.234E-05	100
70.0	4492	2.967E-06	2.641E-05	100
74.0	3198	2.112E-06	1.880E-05	100
78.0	2653	1.753E-06	1.560E-05	100
82.0	1359	8.981E-07	7.993E-06	100
86.0	814	5.383E-07	4.791E-06	100
90.0	13425	8.868E-06	7.892E-05	100
94.0	4881	3.171E-06	2.822E-05	100
98.0	4015	2.652E-06	2.360E-05	100
102.0	1790	1.183E-06	1.053E-05	100
106.0	951	6.282E-07	5.591E-06	100
110.0	133	8.850E-08	7.876E-07	100
114.0	38	2.567E-08	2.285E-07	100
118.0	18	1.246E-08	1.109E-07	100
122.0	7	5.183E-09	4.613E-08	100

CROSSWIND INTEGRATED= 3.148E-04 2.802E-03
SEC/SQ.M 1/M

TEST US3F MARCH 23, 1967 1021 TO 1121 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 8.9 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
36.0	3	2.549E-09	2.268E-08	200
40.0	141	9.318E-08	8.290E-07	200
44.0	625	4.130E-07	3.676E-06	200
48.0	0	0.000E+00	0.000E+00	200
52.0	12816	8.465E-06	7.534E-05	200
56.0	35193	2.325E-05	2.069E-04	200
60.0	48228	3.186E-05	2.835E-04	200
64.0	50184	3.315E-05	2.950E-04	200
68.0	49532	3.272E-05	2.912E-04	200
72.0	35845	2.368E-05	2.107E-04	200
76.0	16292	1.076E-05	9.577E-05	200
80.0	4365	2.883E-06	2.566E-05	200
84.0	6875	4.542E-06	4.042E-05	200
88.0	3164	2.090E-06	1.860E-05	200
92.0	1406	9.291E-07	8.269E-06	200
96.0	784	5.181E-07	4.611E-06	200
100.0	369	2.441E-07	2.172E-06	200
104.0	358	2.369E-07	2.108E-06	200
108.0	84	5.602E-08	4.926E-07	200
82.0	7	5.190E-09	4.619E-08	200
86.0	6	4.048E-09	3.603E-08	200

CROSSWIND INTEGRATED= 2.452E-03 2.183E-02
SEC/SQ.M 1/M

TEST US3F MARCH 23, 1967 1021 TO 1121 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
300M ARC SAMPLER HT 1.5M U= 8.9 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
38.0	0	0.000E+00	0.000E+00	300
42.0	70	4.634E-08	4.124E-07	300
46.0	830	5.482E-07	4.879E-06	300
50.0	1242	8.205E-07	7.303E-06	300
54.0	9495	6.272E-06	5.582E-05	300
58.0	16943	1.119E-05	9.960E-05	300
62.0	26720	1.765E-05	1.571E-04	300
66.0	17378	1.148E-05	1.022E-04	300
70.0	14336	9.469E-06	8.428E-05	300
74.0	82	5.475E-08	4.873E-07	300
78.0	37	2.447E-08	2.177E-07	300
82.0	68	4.538E-08	4.039E-07	300
86.0	14	9.324E-09	8.298E-08	300
90.0	1209	7.989E-07	7.110E-06	300
94.0	816	5.393E-07	4.800E-06	300
98.0	423	2.797E-07	2.490E-06	300
102.0	161	1.067E-07	9.493E-07	300
106.0	8	5.790E-09	5.153E-08	300
110.0	1	1.078E-09	9.594E-09	300
114.0	3	2.577E-09	2.294E-08	300
118.0	3	2.577E-09	2.294E-08	300

CROSSWIND INTEGRATED= 1.243E-03 1.106E-02
SEC/SQ.M 1/M

TEST US3F MARCH 23, 1967 1021 TO 1121 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
400M ARC SAMPLER HT 1.5M U= 8.9 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
32.0	0	4.498E-10	4.003E-09	400
36.0	0	2.356E-10	2.097E-09	400
40.0	1	1.092E-09	9.721E-09	400
44.0	201	1.331E-07	1.184E-06	400
48.0	937	8.191E-07	5.510E-06	400
52.0	2866	1.893E-06	1.685E-05	400
56.0	6516	4.304E-06	3.830E-05	400
60.0	11078	7.317E-06	6.512E-05	400
64.0	10861	7.174E-06	6.385E-05	400
68.0	9340	6.169E-06	5.491E-05	400
72.0	6733	4.447E-06	3.958E-05	400
76.0	2084	1.377E-06	1.225E-05	400
80.0	1888	1.247E-06	1.110E-05	400
84.0	1177	7.777E-07	6.921E-06	400
88.0	784	5.181E-07	4.611E-06	400
92.0	675	4.460E-07	3.969E-06	400
96.0	631	4.172E-07	3.713E-06	400
100.0	106	7.033E-08	6.260E-07	400
104.0	26	1.770E-08	1.575E-07	400
108.0	79	5.231E-08	4.655E-07	400
112.0	6	4.234E-09	3.768E-08	400
116.0	3	2.306E-09	2.052E-08	400
120.0	3	2.092E-09	1.862E-08	400
124.0	4	3.234E-09	2.878E-08	400

CROSSWIND INTEGRATED= 1.033E-03 9.194E-03
SEC/SQ.M 1/M

TEST U53F MARCH 23, 1967 1021 TO 1121 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
500M ARC SAMPLER HT 1.5M U= 8.9 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
38.0	9	6.190E-09	5.509E-08	500
42.0	6	4.048E-09	3.603E-08	500
46.0	92	6.102E-08	5.431E-07	500
50.0	387	2.559E-07	2.278E-06	500
54.0	8688	5.739E-06	5.108E-05	500
58.0	9774	6.456E-06	5.746E-05	500
62.0	8905	5.862E-06	5.235E-05	500
66.0	8254	5.452E-06	4.852E-05	500
72.0	8036	5.308E-06	4.724E-05	500
74.0	3273	2.162E-06	1.924E-05	500
78.0	1897	1.254E-06	1.116E-05	500
82.0	1046	6.911E-07	6.151E-06	500
86.0	784	5.181E-07	4.611E-06	500
90.0	456	3.010E-07	2.686E-06	500
94.0	347	2.296E-07	2.044E-06	500
98.0	240	1.590E-07	1.415E-06	500
102.0	22	1.477E-08	1.315E-07	500
106.0	10	6.839E-09	6.087E-08	500
110.0	1	8.353E-10	7.434E-09	500
114.0	1	7.639E-10	6.799E-09	500
118.0	1	7.639E-10	6.799E-09	500
122.0	0	0.000E+00	0.000E+00	500

CROSSWIND INTEGRATED= 1.233E-03 SEC/SQ.M 1.097E-02 1/M

TEST U53F MARCH 23, 1967 1021 TO 1121 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
700M ARC SAMPLER HT 1.5M U= 8.9 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
38.0	0	7.853E-11	6.989E-10	700
42.0	1	1.171E-09	1.042E-08	700
46.0	51	3.390E-08	3.017E-07	700
50.0	507	3.352E-07	2.983E-06	700
54.0	2259	1.492E-06	1.328E-05	700
58.0	6877	4.542E-06	4.043E-05	700
62.0	4038	2.668E-06	2.374E-05	700
66.0	5457	3.605E-06	3.208E-05	700
70.0	4366	2.884E-06	2.567E-05	700
74.0	1800	1.189E-06	1.059E-05	700
78.0	840	5.548E-07	4.938E-06	700
82.0	348	2.304E-07	2.050E-06	700
86.0	512	3.385E-07	3.013E-06	700
90.0	129	8.530E-08	7.592E-07	700
94.0	145	9.601E-08	8.545E-07	700
98.0	58	3.889E-08	3.462E-07	700
102.0	2	1.913E-09	1.703E-08	700
106.0	2	1.414E-09	1.258E-08	700
110.0	1	1.299E-09	1.156E-08	700

CROSSWIND INTEGRATED= 8.728E-04 SEC/SQ.M 7.768E-03 1/M

TEST U53F MARCH 23, 1967 1021 TO 1121 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
600M ARC SAMPLER HT 1.5M U= 8.9 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
40.0	0	5.711E-10	5.083E-09	600
44.0	0	7.853E-11	6.989E-10	600
48.0	176	1.163E-07	1.035E-06	600
52.0	3055	2.018E-06	1.796E-05	600
56.0	5647	3.730E-06	3.320E-05	600
60.0	7603	5.022E-06	4.469E-05	600
64.0	8906	5.883E-06	5.236E-05	600
68.0	5278	3.486E-06	3.103E-05	600
72.0	3388	2.238E-06	1.992E-05	600
76.0	3583	2.367E-06	2.107E-05	600
80.0	911	6.022E-07	5.359E-06	600
84.0	697	4.610E-07	4.103E-06	600
88.0	534	3.528E-07	3.140E-06	600
92.0	156	1.033E-07	9.197E-07	600
96.0	523	3.456E-07	3.076E-06	600
100.0	30	2.041E-08	1.817E-07	600
104.0	8	5.925E-09	5.274E-08	600
108.0	6	4.426E-09	3.939E-08	600

CROSSWIND INTEGRATED= 1.121E-03 SEC/SQ.M 9.975E-03 1/M

TEST U53F MARCH 23, 1967 1021 TO 1121 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 8.9 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
43.0	6	4.419E-09	3.933E-08	800
46.0	11	7.346E-09	6.538E-08	800
49.0	125	6.316E-08	7.402E-07	800
52.0	712	4.708E-07	4.190E-06	800
55.0	3	2.135E-09	1.900E-08	800
58.0	2652	1.752E-06	1.559E-05	800
61.0	3383	2.235E-06	1.989E-05	800
64.0	3056	2.019E-06	1.797E-05	800
67.0	3165	2.091E-06	1.861E-05	800
70.0	818	5.404E-07	4.810E-06	800
73.0	1342	8.865E-07	7.890E-06	800
76.0	637	4.208E-07	3.746E-06	800
79.0	518	3.423E-07	3.047E-06	800
82.0	280	1.853E-07	1.649E-06	800
85.0	302	1.995E-07	1.776E-06	800
88.0	94	6.246E-08	5.559E-07	800
91.0	76	5.032E-08	4.479E-07	800
94.0	58	3.890E-08	3.462E-07	800
97.0	97	6.460E-08	5.750E-07	800
100.0	4	3.205E-09	2.853E-08	800

CROSSWIND INTEGRATED= 4.800E-04 SEC/SQ.M 4.272E-03 1/M

TEST U53F MARCH 23, 1967 1021 TO 1121 PST
 FLUORESCENCE RELEASE FROM ELEVATION OF 2M
 1200M ARC SAMPLER HT 1.5M U= 8.9 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SG,M	DISTANCE METERS
44.0	2	1.441E-09	1.283E-08	1200
46.0	15	1.048E-08	9.328E-08	1200
48.0	47	3.158E-08	2.811E-07	1200
50.0	134	8.892E-08	7.914E-07	1200
52.0	294	1.944E-07	1.731E-06	1200
54.0	766	5.061E-07	4.504E-06	1200
56.0	55	3.673E-08	3.269E-07	1200
58.0	1764	1.166E-06	1.037E-05	1200
60.0	2495	1.648E-06	1.467E-05	1200
62.0	2373	1.568E-06	1.395E-05	1200
64.0	2190	1.447E-06	1.288E-05	1200
66.0	1521	1.005E-06	8.942E-06	1200
68.0	1642	1.085E-06	9.658E-06	1200
70.0	711	4.699E-07	4.182E-06	1200
72.0	1003	6.629E-07	5.900E-06	1200
74.0	820	5.423E-07	4.826E-06	1200
76.0	656	4.337E-07	3.860E-06	1200
78.0	565	3.734E-07	3.323E-06	1200
80.0	288	1.905E-07	1.695E-06	1200
82.0	143	9.490E-08	8.446E-07	1200
84.0	80	5.309E-08	4.725E-07	1200
86.0	71	4.711E-08	4.193E-07	1200
88.0	47	3.158E-08	2.811E-07	1200
90.0	50	3.875E-08	3.449E-07	1200
92.0	35	2.362E-08	2.102E-07	1200
94.0	17	1.167E-08	1.039E-07	1200
96.0	2	1.760E-09	1.566E-08	1200
98.0	2	1.601E-09	1.425E-08	1200
100.0	0	4.778E-11	4.253E-10	1200

CROSSWIND INTEGRATED= 4.928E-04
 SEC/SG,M 1/M

TEST U53F MARCH 23, 1967 1021 TO 1121 PST
 FLUORESCENCE RELEASE FROM ELEVATION OF 2M
 1600M ARC SAMPLER HT 1.5M U= 8.9 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SG,M	DISTANCE METERS
44.0	0	0.000E+00	0.000E+00	1600
46.0	0	0.362E-11	7.442E-10	1600
48.0	20	1.347E-08	1.199E-07	1600
50.0	55	3.657E-08	3.254E-07	1600
52.0	109	7.240E-08	6.444E-07	1600
54.0	222	1.469E-07	1.307E-06	1600
56.0	541	3.579E-07	3.185E-06	1600
58.0	583	3.856E-07	3.432E-06	1600
60.0	876	5.787E-07	5.150E-06	1600
62.0	1296	8.562E-07	7.620E-06	1600
64.0	1150	7.596E-07	6.761E-06	1600
66.0	821	5.425E-07	4.828E-06	1600
68.0	285	1.886E-07	1.678E-06	1600
70.0	766	5.063E-07	4.506E-06	1600
72.0	391	2.584E-07	2.299E-06	1600
74.0	373	2.464E-07	2.193E-06	1600
76.0	198	1.309E-07	1.165E-06	1600
78.0	174	1.150E-07	1.024E-06	1600
80.0	124	8.196E-08	7.294E-07	1600
82.0	53	3.537E-08	3.148E-07	1600
84.0	36	2.422E-08	2.156E-07	1600
86.0	23	1.546E-08	1.376E-07	1600
88.0	23	1.546E-08	1.376E-07	1600
90.0	18	1.228E-08	1.093E-07	1600
92.0	12	8.135E-09	7.240E-08	1600
94.0	0	6.491E-10	5.777E-09	1600
96.0	4	2.720E-09	2.420E-08	1600

CROSSWIND INTEGRATED= 3.011E-04
 SEC/SG,M 1/M

UNSTABLE SERIES EXPERIMENT: 54 (U-54)
ZINC SULFIDE AND FLUORESCIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT 54. ZINC SULFIDE RESULTS ARE PRESENTED HERE. GROUND
LEVEL SAMPLING 100-1600 M ARC.

TEST U-54 MARCH 23, 1967 2240 TO 2325 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
100M ARC SAMPLER HT 1.5M U= 6.9 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/30.M	DISTANCE METERS
40.0	27	1.587E-08	1.095E-07	100
52.0	20	1.204E-08	8.305E-08	100
56.0	14	8.206E-09	5.662E-08	100
80.0	16	9.848E-09	6.795E-08	100
84.0	34	2.024E-08	1.397E-07	100
88.0	270	1.576E-07	1.087E-06	100
92.0	161	9.410E-08	6.493E-07	100
96.0	140	8.206E-08	5.662E-07	100
100.0	12	7.112E-09	4.907E-08	100
104.0	271	1.587E-07	1.095E-06	100
108.0	9	5.471E-09	3.775E-08	100
112.0	20	1.204E-08	8.305E-08	100
116.0	10	6.018E-09	4.152E-08	100
120.0	11	6.565E-09	4.530E-08	100

CROSSWIND INTEGRATED= 4.474E-06 SEC/30.M
3.087E-05 1/M

TEST U-54 MARCH 23, 1967 2240 TO 2325 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 6.9 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/30.M	DISTANCE METERS
38.0	19	1.149E-08	7.927E-08	200
42.0	34	2.024E-08	1.397E-07	200
46.0	302	1.767E-07	1.219E-06	200
50.0	632	3.693E-07	2.548E-06	200
54.0	205	1.198E-07	8.267E-07	200
58.0	254	1.983E-07	1.023E-06	200
62.0	66	3.884E-08	2.680E-07	200
66.0	11	6.565E-09	4.530E-08	200
86.0	10	6.018E-09	4.152E-08	200
90.0	9	5.471E-09	3.775E-08	200
94.0	39	2.240E-08	1.585E-07	200
98.0	45	2.826E-08	1.812E-07	200

CROSSWIND INTEGRATED= 1.364E-05 SEC/30.M
9.414E-05 1/M

TEST U-54 MARCH 23, 1967 2240 TO 2325 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
300M ARC SAMPLER HT 1.5M U= 6.9 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/30.M	DISTANCE METERS
36.0	28	1.641E-08	1.132E-07	300
40.0	377	2.205E-07	1.521E-06	300
44.0	302	2.232E-07	1.540E-06	300
48.0	811	4.732E-07	3.265E-06	300
52.0	1659	9.683E-07	6.682E-06	300
56.0	1018	5.941E-07	4.100E-06	300
60.0	800	4.672E-07	3.224E-06	300
64.0	395	2.309E-07	1.593E-06	300
68.0	264	1.543E-07	1.065E-06	300
72.0	82	4.814E-08	3.322E-07	300

CROSSWIND INTEGRATED= 7.113E-05 SEC/30.M
4.908E-04 1/M

TEST U-54 MARCH 23, 1967 2240 TO 2325 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 6.9 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/30.M	DISTANCE METERS
38.0	55	3.228E-08	2.227E-07	400
42.0	432	2.522E-07	1.740E-06	400
46.0	1661	9.644E-07	6.689E-06	400
50.0	2038	1.169E-06	8.207E-06	400
54.0	2117	1.235E-06	8.524E-06	400
58.0	2395	1.398E-06	9.645E-06	400
62.0	1785	1.042E-06	7.187E-06	400
66.0	681	3.977E-07	2.744E-06	400
70.0	350	2.046E-07	1.412E-06	400

CROSSWIND INTEGRATED= 1.877E-04 SEC/30.M
1.299E-03 1/M

TEST U-54 MARCH 23, 1967 2240 TO 2325 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
500M ARC SAMPLER HT 1.5M U= 6.9 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/30.M	DISTANCE METERS
40.0	154	9.027E-08	6.229E-07	500
44.0	959	5.597E-07	3.862E-06	500
48.0	1433	8.365E-07	5.772E-06	500
52.0	1622	9.445E-07	6.531E-06	500
56.0	2279	1.330E-06	9.177E-06	500
60.0	2249	1.312E-06	9.056E-06	500
64.0	993	5.799E-07	4.001E-06	500
68.0	461	2.692E-07	1.857E-06	500
72.0	49	2.900E-08	2.001E-07	500

CROSSWIND INTEGRATED= 2.078E-04 SEC/30.M
1.434E-03 1/M

TEST U-54 MARCH 23, 1967 2240 TO 2325 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
600M ARC SAMPLER HT 1.5M U= 6.9 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/30.M	DISTANCE METERS
42.0	556	3.250E-07	2.242E-06	600
46.0	1309	7.643E-07	5.274E-06	600
50.0	1674	9.771E-07	6.742E-06	600
54.0	2788	1.627E-06	1.123E-05	600
58.0	3007	2.221E-06	1.933E-05	600
62.0	1440	8.403E-07	5.798E-06	600
66.0	695	4.059E-07	2.801E-06	600
70.0	235	1.373E-07	9.475E-07	600

CROSSWIND INTEGRATED= 3.057E-04 SEC/30.M
2.109E-03 1/M

TEST U-54 MARCH 23, 1967 2240 TO 2325 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
700M ARC SAMPLER HT 1.5M U= 6.9 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
40.0	248	1.450E-07	1.000E-06	700
44.0	1915	1.118E-06	7.712E-06	700
48.0	8076	2.378E-06	1.641E-05	700
52.0	3355	1.957E-06	1.351E-05	700
56.0	6908	4.030E-06	2.781E-05	700
60.0	3841	2.201E-06	1.547E-05	700
64.0	1510	8.814E-07	6.081E-06	700
68.0	946	5.520E-07	3.809E-06	700
72.0	53	3.118E-08	2.152E-07	700

CROSSWIND INTEGRATED= 6.517E-04 4.496E-03
SEC/SQ.M 1/M

TEST U-54 MARCH 23, 1967 2240 TO 2325 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 6.9 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
40.0	33	1.970E-08	1.359E-07	800
43.0	1713	9.995E-07	6.897E-06	800
46.0	2912	1.699E-06	1.172E-05	800
49.0	2314	1.350E-06	9.316E-06	800
52.0	3452	2.014E-06	1.390E-05	800
55.0	5109	2.981E-06	2.057E-05	800
58.0	5792	3.379E-06	2.332E-05	800
61.0	2827	1.649E-06	1.138E-05	800
64.0	1681	9.809E-07	6.768E-06	800
67.0	1343	7.840E-07	5.409E-06	800
70.0	203	1.187E-07	8.192E-07	800
73.0	12	7.112E-09	4.907E-08	800

CROSSWIND INTEGRATED= 6.695E-04 4.620E-03
SEC/SQ.M 1/M

TEST U-54 MARCH 23, 1967 2240 TO 2325 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 6.9 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
42.0	37	2.206E-08	1.522E-07	1600
44.0	525	3.066E-07	2.115E-06	1600
46.0	885	5.169E-07	3.567E-06	1600
R 43.0	259	1.512E-07	1.043E-06	1600
50.0	2072	1.209E-06	8.342E-06	1600
52.0	2730	1.593E-06	1.099E-05	1600
54.0	2820	1.646E-06	1.136E-05	1600
56.0	2568	1.499E-06	1.034E-05	1600
58.0	4065	2.372E-06	1.636E-05	1600
60.0	2226	1.299E-06	8.962E-06	1600
62.0	1401	8.174E-07	5.640E-06	1600
64.0	667	3.894E-07	2.687E-06	1600
66.0	306	1.790E-07	1.235E-06	1600
68.0	47	2.781E-08	1.919E-07	1600

CROSSWIND INTEGRATED= 7.201E-04 4.988E-03
SEC/SQ.M 1/M

TEST U-54 MARCH 23, 1967 2240 TO 2325 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 6.9 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
C 42.0	207	1.212E-07	8.360E-07	1200
44.0	407	2.378E-07	1.641E-06	1200
46.0	641	3.743E-07	2.583E-06	1200
48.0	615	3.593E-07	2.479E-06	1200
50.0	1230	7.177E-07	4.952E-06	1200
C 52.0	58	3.389E-08	2.338E-07	1200
C 54.0	57	3.357E-08	2.316E-07	1200
56.0	2540	1.482E-06	1.023E-05	1200
58.0	2168	1.265E-06	8.728E-06	1200
60.0	1001	5.804E-07	4.032E-06	1200
62.0	580	3.369E-07	2.338E-06	1200
64.0	398	2.327E-07	1.606E-06	1200
66.0	183	1.068E-07	7.367E-07	1200
68.0	291	1.701E-07	1.173E-06	1200
70.0	25	1.470E-08	1.015E-07	1200

CROSSWIND INTEGRATED= 2.544E-04 1.755E-03
SEC/SQ.M 1/M

UNSTABLE SERIES EXPERIMENT: 54F (U-54F)
ZINC SULFIDE AND FLUORESCIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT 54. FLUORESCIN RESULTS ARE PRESENTED HERE. GROUND
LEVEL SAMPLING 100-1600 M ARC.

TEST U54F MARCH 23, 1967 2240 TO 2325 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
100M ARC SAMPLER HT 1.5M U= 3.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/C SEC/CM ²	FL/D 1/SEC	DISTANCE METERS
356.0	3	3.610E-09	1.199E-08	100
0.0	3	3.221E-09	1.063E-08	100
4.0	2	2.199E-09	7.255E-09	100
8.0	16	1.589E-08	5.112E-08	100
12.0	2	2.710E-09	8.942E-09	100
16.0	3	3.426E-09	1.130E-08	100
20.0	6	6.084E-09	2.008E-08	100
24.0	6	5.778E-09	1.907E-08	100
28.0	121	1.152E-07	3.801E-07	100
32.0	2344	2.218E-06	7.321E-06	100
36.0	27372	2.590E-05	8.504E-05	100
40.0	5429	5.137E-06	1.695E-05	100
44.0	18120	1.336E-05	4.408E-05	100
48.0	16292	1.541E-05	5.087E-05	100
52.0	15640	1.440E-05	4.883E-05	100
56.0	18682	1.767E-05	5.833E-05	100
60.0	18899	1.788E-05	5.901E-05	100
64.0	1171	1.109E-06	3.658E-06	100
68.0	2685	2.465E-06	8.135E-06	100
72.0	1758	1.663E-06	5.489E-06	100
76.0	21506	2.075E-05	6.714E-05	100
80.0	3907	3.698E-06	1.220E-05	100
84.0	131	1.244E-07	4.105E-07	100
88.0	20	1.917E-08	6.327E-08	100
92.0	15	1.427E-08	4.707E-08	100
96.0	15	1.427E-08	4.707E-08	100
100.0	15	1.457E-08	4.809E-08	100
104.0	18	1.795E-08	5.922E-08	100
108.0	15	1.488E-08	4.910E-08	100
112.0	14	1.365E-08	4.505E-08	100
116.0	4	4.408E-09	1.468E-08	100
120.0	13	1.273E-08	4.201E-08	100

CROSSWIND INTEGRATED= 9.885E-04
SEC/SEC/M 1/M

TEST U54F MARCH 23, 1967 2240 TO 2325 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 3.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/C SEC/CM ²	FL/D 1/SEC	DISTANCE METERS
30.0	12	1.212E-08	3.999E-08	200
34.0	370	3.501E-07	1.155E-06	200
38.0	26069	2.466E-05	8.139E-05	200
42.0	3688	3.452E-06	1.139E-05	200
46.0	5408	5.117E-06	1.688E-05	200
50.0	3909	3.698E-06	1.220E-05	200
54.0	6298	5.959E-06	1.967E-05	200
58.0	8688	8.220E-06	2.713E-05	200
62.0	911	8.619E-07	2.844E-06	200
66.0	874	8.269E-07	2.729E-06	200
70.0	701	6.833E-07	2.189E-06	200
74.0	230	2.185E-07	7.210E-07	200

CROSSWIND INTEGRATED= 7.546E-04
SEC/SEC/M 1/M

TEST U54F MARCH 23, 1967 2240 TO 2325 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
300M ARC SAMPLER HT 1.5M U= 3.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/C SEC/CM ²	FL/D 1/SEC	DISTANCE METERS
24.0	31	3.010E-08	9.935E-08	300
28.0	0	7.158E-11	2.362E-10	300
32.0	8	8.324E-09	2.747E-08	300
36.0	2932	2.774E-06	9.155E-06	300
40.0	868	8.216E-07	2.711E-06	300
44.0	2215	2.096E-06	6.917E-06	300
48.0	1759	1.664E-06	5.492E-06	300
52.0	1454	1.377E-06	4.543E-06	300
56.0	3975	3.761E-06	1.281E-05	300
60.0	2190	2.034E-06	6.713E-06	300
64.0	37149	3.515E-05	1.160E-04	300
68.0	17597	1.665E-05	5.494E-05	300
72.0	6991	6.577E-06	2.170E-05	300
76.0	125	1.191E-07	3.929E-07	300
80.0	10	9.858E-09	3.253E-08	300

CROSSWIND INTEGRATED= 1.530E-03
SEC/SEC/M 1/M

TEST U54F MARCH 23, 1967 2240 TO 2325 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
400M ARC SAMPLER HT 1.5M U= 3.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/C SEC/CM ²	FL/D 1/SEC	DISTANCE METERS
30.0	3	3.405E-09	1.124E-08	400
34.0	48	4.544E-08	1.503E-07	400
38.0	4301	4.069E-06	1.343E-05	400
40.0	33891	3.206E-05	1.058E-04	400
46.0	50837	4.810E-05	1.587E-04	400
50.0	31280	2.960E-05	9.767E-05	400
54.0	31935	3.021E-05	9.971E-05	400
58.0	121661	1.151E-04	3.798E-04	400
62.0	26721	2.528E-05	8.343E-05	400
66.0	6517	6.166E-06	2.035E-05	400
70.0	8255	7.810E-06	2.577E-05	400
74.0	334	3.165E-07	1.045E-06	400
78.0	6	5.757E-09	1.900E-08	400
82.0	1	1.605E-09	5.298E-09	400

CROSSWIND INTEGRATED= 8.651E-03
SEC/SEC/M 1/M

TEST U54F MARCH 23, 1967 2240 TO 2325 PST
FLUORESCENT RELEASE FROM ELEVATION OF 2M
500M ARC SAMPLER HT 1.5M U= 3.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
32.0	2	2.751E-09	9.077E-09	500
36.0	94	9.151E-08	3.020E-07	500
40.0	14120	1.334E-05	4.409E-05	500
44.0	45622	4.316E-05	1.424E-04	500
48.0	41712	3.946E-05	1.302E-04	500
52.0	29328	2.775E-05	9.157E-05	500
56.0	93418	8.834E-05	2.917E-04	500
60.0	44319	4.193E-05	1.384E-04	500
64.0	13034	1.233E-05	4.069E-05	500
68.0	10427	9.655E-06	3.256E-05	500
72.0	640	6.437E-07	2.124E-06	500
76.0	11	1.114E-08	3.675E-08	500
80.0	3	3.671E-09	1.211E-08	500

CROSSWIND INTEGRATED= 9.649E-03 SEC/SQ.M
1/M

TEST U54F MARCH 23, 1967 2240 TO 2325 PST
FLUORESCENT RELEASE FROM ELEVATION OF 2M
600M ARC SAMPLER HT 1.5M U= 3.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
30.0	0	5.522E-10	1.822E-09	600
34.0	0	6.749E-10	2.277E-09	600
38.0	972	9.194E-07	3.035E-06	600
42.0	12342	1.172E-05	3.866E-05	600
46.0	19552	1.850E-05	6.104E-05	600
50.0	11731	1.110E-05	3.663E-05	600
54.0	86901	8.221E-05	2.713E-04	600
58.0	53444	5.056E-05	1.669E-04	600
62.0	12165	1.151E-05	3.798E-05	600
66.0	7603	7.193E-06	2.374E-05	600
70.0	449	4.249E-07	1.402E-06	600
74.0	108	1.022E-07	3.374E-07	600
78.0	2	2.117E-09	7.053E-09	600

CROSSWIND INTEGRATED= 8.136E-03 SEC/SQ.M
1/M

TEST U54F MARCH 23, 1967 2240 TO 2325 PST
FLUORESCENT RELEASE FROM ELEVATION OF 2M
700M ARC SAMPLER HT 1.5M U= 3.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
32.0	2	2.904E-09	6.614E-09	700
36.0	1	1.882E-09	6.209E-09	700
40.0	3649	3.453E-06	1.139E-05	700
44.0	6299	5.960E-06	1.967E-05	700
48.0	5213	4.932E-06	1.620E-05	700
52.0	14338	1.357E-05	4.476E-05	700
56.0	46274	4.378E-05	1.445E-04	700
60.0	24114	2.281E-05	7.529E-05	700
64.0	8472	8.016E-06	2.645E-05	700
68.0	4822	4.543E-06	1.506E-05	700
72.0	190	1.805E-07	5.958E-07	700
76.0	4	3.845E-09	1.269E-08	700
80.0	2	2.516E-09	8.301E-09	700

CROSSWIND INTEGRATED= 5.242E-03 SEC/SQ.M
1/M

TEST U54F MARCH 23, 1967 2240 TO 2325 PST
FLUORESCENT RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 3.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
34.0	1	1.156E-09	3.813E-09	800
37.0	10	9.693E-09	3.186E-08	800
40.0	2128	2.014E-06	6.645E-06	800
43.0	9993	9.854E-06	3.120E-05	800
46.0	15641	1.489E-05	4.883E-05	800
49.0	6517	6.166E-06	2.035E-05	800
52.0	12343	1.172E-05	3.866E-05	800
55.0	31244	2.964E-05	9.767E-05	800
58.0	39105	3.700E-05	1.221E-04	800
61.0	10210	9.660E-06	3.188E-05	800
64.0	6951	6.577E-06	2.170E-05	800
67.0	4040	3.823E-06	1.261E-05	800
70.0	518	4.904E-07	1.618E-06	800
73.0	35	3.327E-08	1.098E-07	800
76.0	2	2.495E-09	8.234E-09	800
79.0	1	1.146E-09	3.914E-09	800

CROSSWIND INTEGRATED= 5.501E-03 SEC/SQ.M
1/M

TEST U54F MARCH 23, 1967 2240 TO 2325 PST
FLUORESCENT RELEASE FROM ELEVATION OF 2M
1200M ARC SAMPLER HT 1.5M U= 3.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
30.0	0	2.510E-10	8.281E-10	1200
34.0	140	1.332E-07	4.397E-07	1200
38.0	2496	2.362E-06	7.793E-06	1200
42.0	9049	4.815E-06	1.589E-05	1200
46.0	7391	6.993E-06	2.308E-05	1200
48.0	8845	8.369E-06	2.762E-05	1200
50.0	5573	5.273E-06	1.740E-05	1200
52.0	16	1.511E-09	5.059E-08	1200
54.0	31	2.973E-08	9.812E-08	1200
56.0	15631	1.479E-05	4.880E-05	1200
58.0	19993	1.892E-05	6.242E-05	1200
60.0	9047	8.598E-06	2.837E-05	1200
62.0	6543	6.190E-06	2.043E-05	1200
64.0	4362	4.127E-06	1.362E-05	1200
66.0	2835	2.642E-06	8.852E-06	1200
68.0	544	5.528E-07	1.824E-06	1200
72.0	261	2.475E-07	8.167E-07	1200
74.0	0	7.146E-10	2.372E-09	1200

CROSSWIND INTEGRATED= 1.539E-03 SEC/SQ.M
1/M

TEST US4F MARCH 23, 1967 2240 TO 2325 PST
 FLUORESCIN RELEASE FROM ELEVATION OF 2M
 1600M ARC SAMPLER HT 1.5M U= 3.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SEC	DISTANCE METERS
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38.0	0	1.540E-10	5.042E-10	1600
40.0	0	6.046E-10	1.995E-09	1600
42.0	499	4.722E-07	1.558E-06	1600
44.0	2742	2.614E-06	9.625E-06	1600
46.0	3392	3.217E-06	1.059E-05	1600
48.0	3998	3.783E-06	1.244E-05	1600
50.0	4967	4.700E-06	1.551E-05	1600
52.0	7876	7.451E-06	2.459E-05	1600
54.0	9845	8.369E-06	2.762E-05	1600
56.0	8118	7.681E-06	2.535E-05	1600
58.0	17449	1.651E-05	5.448E-05	1600
60.0	4604	4.356E-06	1.438E-05	1600
62.0	5937	5.617E-06	1.854E-05	1600
64.0	2508	2.373E-06	7.831E-06	1600
66.0	730	6.911E-07	2.281E-06	1600
68.0	337	3.192E-07	1.053E-06	1600
70.0	5	4.968E-09	1.639E-08	1600
36.0	0	2.510E-10	8.281E-10	1600

CROSSWIND INTEGRATED= 3.804E-03 1.255E-02
 SEC/SEC 1/M

UNSTABLE SERIES EXPERIMENT: 55 (U-55)
GROUND LEVEL SAMPLING 100-1600 M ARCS. FOR EASE IN STATISTICAL
ANALYSIS, ALL SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES
FROM THEIR ACTUAL POSITIONS.

TEST U-55 APRIL 14, 1967 1150 TO 1250 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
100M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/R SEC/CU.M	FU/R 1/SG.M	DISTANCE METERS
22.0	27	1.628E-08	7.812E-08	100
26.0	175	1.040E-07	4.994E-07	100
30.0	360	2.133E-07	1.024E-06	100
34.0	734	4.348E-07	2.087E-06	100
38.0	5631	3.332E-06	1.600E-05	100
42.0	13707	8.158E-06	3.916E-05	100
46.0	43173	2.555E-05	1.226E-04	100
50.0	39144	2.316E-05	1.112E-04	100
54.0	46657	2.761E-05	1.325E-04	100
C 58.0	5609	3.319E-06	1.593E-05	100
C 62.0	4719	2.792E-06	1.340E-05	100
C 66.0	10324	6.109E-06	2.932E-05	100
C 70.0	4881	2.888E-06	1.386E-05	100
C 74.0	169104	1.001E-04	4.803E-04	100
C 78.0	241598	1.430E-04	6.862E-04	100
C 82.0	237723	1.407E-04	6.752E-04	100
C 86.0	346997	2.053E-04	9.856E-04	100
C 90.0	276605	1.637E-04	7.856E-04	100
C 94.0	230668	1.365E-04	6.552E-04	100
C 98.0	169715	1.004E-04	4.820E-04	100
F 102.0	120488	7.130E-05	3.422E-04	100
106.0	110074	6.513E-05	3.126E-04	100
110.0	56567	3.347E-05	1.607E-04	100
114.0	51450	3.044E-05	1.461E-04	100
118.0	42295	2.503E-05	1.201E-04	100
C 122.0	12878	7.621E-06	3.658E-05	100
C 126.0	1476	8.853E-07	4.249E-06	100
C 130.0	166	9.824E-08	4.715E-07	100
C 134.0	7	4.650E-09	2.232E-08	100
C 138.0	6	4.060E-09	1.953E-08	100
C 142.0	34	2.034E-08	9.766E-08	100
C 146.0	20	1.221E-08	5.859E-08	100
150.0	33	1.976E-08	9.486E-08	100

CROSSWIND INTEGRATED= 9.266E-03 4.448E-02
SEC/SG.M 1/M

TEST U-55 APRIL 14, 1967 1150 TO 1250 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/R SEC/CU.M	FU/R 1/SG.M	DISTANCE METERS
28.0	62	3.720E-08	1.786E-07	200
32.0	308	1.825E-07	8.761E-07	200
36.0	1211	7.167E-07	3.440E-06	200
40.0	3537	2.093E-06	1.005E-05	200
44.0	7771	4.599E-06	2.207E-05	200
48.0	11352	6.717E-06	3.224E-05	200
52.0	8082	4.783E-06	2.296E-05	200
56.0	3011	1.782E-06	8.555E-06	200
60.0	10942	6.475E-06	3.108E-05	200
64.0	17864	1.057E-05	5.074E-05	200
68.0	12192	7.214E-06	3.463E-05	200
72.0	11352	6.717E-06	3.224E-05	200
76.0	12860	7.610E-06	3.653E-05	200
80.0	12216	7.229E-06	3.470E-05	200
84.0	23228	1.374E-05	6.598E-05	200
88.0	19644	1.162E-05	5.579E-05	200
92.0	37028	2.191E-05	1.052E-04	200
96.0	28508	1.693E-05	8.125E-05	200
100.0	9991	5.912E-06	2.838E-05	200
104.0	12267	7.259E-06	3.484E-05	200
108.0	7373	4.363E-06	2.094E-05	200
112.0	3516	2.081E-06	9.989E-06	200
116.0	6739	3.988E-06	1.914E-05	200
120.0	6464	3.825E-06	1.836E-05	200
124.0	1209	7.156E-07	3.435E-06	200
128.0	24	1.453E-08	6.975E-08	200

CROSSWIND INTEGRATED= 2.221E-03 1.066E-02
SEC/SG.M 1/M

TEST U-55 APRIL 14, 1967 1150 TO 1250 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
300M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/G 1/SG.M	DISTANCE METERS
26.0	22	1.337E-08	6.417E-08	300
30.0	157	9.300E-08	4.964E-07	300
34.0	100	5.929E-08	2.846E-07	300
38.0	254	1.506E-07	7.226E-07	300
42.0	1763	1.043E-06	5.008E-06	300
46.0	4345	2.572E-06	1.234E-05	300
50.0	2262	1.319E-06	6.426E-06	300
54.0	2092	1.218E-06	5.943E-06	300
58.0	2638	1.561E-06	7.494E-06	300
62.0	5624	3.328E-06	1.597E-05	300
66.0	3925	2.323E-06	1.115E-05	300
70.0	3463	2.050E-06	9.838E-06	300
74.0	6424	3.802E-06	1.825E-05	300
78.0	5962	3.528E-06	1.694E-05	300
82.0	8483	5.020E-06	2.410E-05	300
86.0	13303	7.872E-06	3.778E-05	300
90.0	8731	5.166E-06	2.480E-05	300
94.0	9014	5.334E-06	2.560E-05	300
98.0	5217	3.067E-06	1.482E-05	300
102.0	3598	2.129E-06	1.022E-05	300
106.0	6647	3.934E-06	1.888E-05	300
110.0	7767	4.596E-06	2.206E-05	300
114.0	1222	7.231E-07	3.471E-06	300
118.0	305	1.808E-07	8.677E-07	300
122.0	1576	9.330E-07	4.478E-06	300
126.0	1031	6.103E-07	2.930E-06	300

CROSSWIND INTEGRATED= 1.313E-03 6.302E-03
SEC/SG.M 1/M

TEST U-55 APRIL 14, 1967 1150 TO 1250 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/G 1/SG.M	DISTANCE METERS
28.0	87	5.173E-08	2.483E-07	400
32.0	30	1.802E-08	8.649E-08	400
36.0	53	3.139E-08	1.507E-07	400
40.0	130	7.731E-08	3.711E-07	400
44.0	214	1.349E-07	6.668E-07	400
48.0	1346	7.969E-07	3.825E-06	400
52.0	1079	6.388E-07	3.066E-06	400
56.0	882	5.220E-07	2.506E-06	400
60.0	1949	1.163E-06	5.536E-06	400
64.0	5035	2.980E-06	1.430E-05	400
68.0	3331	1.971E-06	9.461E-06	400
72.0	3559	2.106E-06	1.011E-05	400
76.0	5009	2.964E-06	1.423E-05	400
80.0	3670	2.130E-06	1.023E-05	400
84.0	6961	4.119E-06	1.977E-05	400
88.0	16080	9.515E-06	4.567E-05	400
92.0	9667	5.720E-06	2.746E-05	400
96.0	6880	4.071E-06	1.954E-05	400
100.0	2194	1.299E-06	6.233E-06	400
104.0	2031	1.202E-06	5.770E-06	400
108.0	2041	1.208E-06	5.798E-06	400
112.0	439	2.598E-07	1.247E-06	400
116.0	615	3.645E-07	1.749E-06	400
120.0	550	3.255E-07	1.562E-06	400
P 124.0	87	2.790E-08	1.339E-07	400

CROSSWIND INTEGRATED= 1.220E-03 5.856E-03
SEC/SG.M 1/M

TEST U-55 APRIL 14, 1967 1150 TO 1250 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
500M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/G 1/SG.M	DISTANCE METERS
C 50.0	26	1.569E-08	7.533E-08	500
C 54.0	52	3.081E-08	1.479E-07	500
58.0	421	2.494E-07	1.197E-06	500
62.0	2326	1.376E-06	6.607E-06	500
66.0	2480	1.468E-06	7.045E-06	500
70.0	2738	1.621E-06	7.779E-06	500
74.0	3085	1.826E-06	8.764E-06	500
78.0	1928	1.141E-06	5.477E-06	500
82.0	2434	1.440E-06	6.914E-06	500
86.0	2259	1.337E-06	6.417E-06	500
90.0	3036	1.797E-06	8.624E-06	500
94.0	3391	2.007E-06	9.632E-06	500
98.0	2402	1.422E-06	6.825E-06	500
102.0	2354	1.393E-06	6.688E-06	500
Z 106.0	1061	6.284E-07	3.016E-06	500
Z 110.0	461	2.732E-07	1.311E-06	500
Z 114.0	420	2.488E-07	1.194E-06	500
Z 118.0	355	2.104E-07	1.010E-06	500
122.0	284	1.686E-07	8.091E-07	500
126.0	23	1.395E-08	6.696E-08	500

CROSSWIND INTEGRATED= 6.516E-04 3.128E-03
SEC/SG.M 1/M

TEST U-55 APRIL 14, 1967 1150 TO 1250 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
600M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/G 1/SG.M	DISTANCE METERS
44.0	41	2.441E-08	1.172E-07	600
48.0	213	1.261E-07	6.055E-07	600
52.0	250	1.402E-07	7.115E-07	600
56.0	381	2.255E-07	1.083E-06	600
Z 60.0	209	1.238E-07	5.943E-07	600
Z 64.0	3185	1.885E-06	9.048E-06	600
Z 68.0	2797	1.655E-06	7.946E-06	600
Z 72.0	3274	1.937E-06	9.300E-06	600
76.0	3350	1.983E-06	9.517E-06	600
80.0	3289	1.947E-06	9.344E-06	600
84.0	6076	3.596E-06	1.726E-05	600
88.0	4873	2.884E-06	1.384E-05	600
92.0	3928	2.325E-06	1.116E-05	600
96.0	3509	2.077E-06	9.969E-06	600
100.0	3570	2.113E-06	1.014E-05	600
104.0	2290	1.356E-06	6.507E-06	600
108.0	701	4.150E-07	1.992E-06	600
112.0	296	1.755E-07	8.426E-07	600
116.0	206	1.221E-07	5.859E-07	600
120.0	24	1.453E-08	6.975E-08	600
124.0	82	4.883E-08	2.344E-07	600

CROSSWIND INTEGRATED= 1.055E-03 5.063E-03
SEC/SG.M 1/M

TEST U-55 APRIL 14, 1967 1150 TO 1250 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
700M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/30.M	DISTANCE METERS
30.0	27	1.628E-08	7.812E-08	700
42.0	0	0.000E+00	0.000E+00	700
46.0	106	6.276E-08	3.013E-07	700
50.0	99	5.871E-08	2.818E-07	700
54.0	161	9.533E-08	4.576E-07	700
P 58.0	18	1.104E-08	5.301E-08	700
P 62.0	57	3.430E-08	1.646E-07	700
P 66.0	153	9.068E-08	4.353E-07	700
P 70.0	139	8.254E-08	3.962E-07	700
74.0	2208	1.307E-06	6.272E-06	700
78.0	2228	1.319E-06	6.331E-06	700
82.0	3488	2.040E-06	9.793E-06	700
86.0	4012	2.375E-06	1.140E-05	700
90.0	2347	1.389E-06	6.668E-06	700
94.0	2386	1.412E-06	6.777E-06	700
98.0	2622	1.552E-06	7.450E-06	700
102.0	2558	1.514E-06	7.266E-06	700
106.0	1520	9.045E-07	4.341E-06	700
110.0	812	4.807E-07	2.307E-06	700
114.0	366	2.168E-07	1.041E-06	700
118.0	392	2.325E-07	1.116E-06	700
122.0	108	6.394E-08	3.069E-07	700

CROSSWIND INTEGRATED= 7.456E-04 SEC/30.M
3.579E-03 1/M

TEST U-55 APRIL 14, 1967 1150 TO 1250 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/30.M	DISTANCE METERS
46.0	26	1.549E-08	7.533E-08	800
49.0	23	1.305E-08	6.696E-08	800
52.0	80	4.766E-08	2.288E-07	800
55.0	151	8.952E-08	4.297E-07	800
58.0	266	1.575E-07	7.561E-07	800
61.0	403	2.389E-07	1.147E-06	800
64.0	633	3.749E-07	1.800E-06	800
67.0	1442	8.533E-07	4.096E-06	800
70.0	1497	8.859E-07	4.252E-06	800
73.0	1377	8.150E-07	3.912E-06	800
76.0	2160	1.278E-06	6.136E-06	800
79.0	2354	1.393E-06	6.688E-06	800
82.0	2168	1.283E-06	6.158E-06	800
85.0	2515	1.489E-06	7.146E-06	800
88.0	2312	1.368E-06	6.568E-06	800
91.0	1634	9.672E-07	4.643E-06	800
94.0	2163	1.280E-06	6.144E-06	800
97.0	2507	1.884E-06	7.123E-06	800
100.0	1662	9.835E-07	4.721E-06	800
103.0	1673	9.905E-07	4.754E-06	800
106.0	1238	7.330E-07	3.518E-06	800
109.0	785	4.650E-07	2.232E-06	800
112.0	255	1.511E-07	7.254E-07	800
115.0	353	2.093E-07	1.004E-06	800
118.0	167	9.882E-08	4.743E-07	800
121.0	154	9.126E-08	4.381E-07	800

CROSSWIND INTEGRATED= 7.438E-04 SEC/30.M
3.570E-03 1/M

TEST U-55 APRIL 14, 1967 1150 TO 1250 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/30.M	DISTANCE METERS
50.0	12	7.133E-09	3.424E-08	1200
58.0	8	5.187E-09	2.490E-08	1200
60.0	41	2.432E-08	1.167E-07	1200
62.0	35	2.107E-08	1.012E-07	1200
64.0	18	1.102E-08	5.291E-08	1200
66.0	51	3.040E-08	1.463E-07	1200
68.0	66	3.955E-08	1.899E-07	1200
70.0	102	8.430E-08	4.046E-07	1200
72.0	211	1.251E-07	6.007E-07	1200
Q 74.0	584	3.459E-07	1.660E-06	1200
Q 76.0	591	3.501E-07	1.681E-06	1200
78.0	275	1.631E-07	7.828E-07	1200
80.0	394	2.334E-07	1.120E-06	1200
Q 82.0	629	3.722E-07	1.787E-06	1200
Q 84.0	992	5.875E-07	2.820E-06	1200
86.0	116	6.873E-08	3.299E-07	1200
88.0	118	7.003E-08	3.361E-07	1200
90.0	239	1.420E-07	6.816E-07	1200
92.0	244	1.449E-07	6.956E-07	1200
94.0	98	5.836E-08	2.801E-07	1200
96.0	196	1.164E-07	5.587E-07	1200
98.0	117	6.971E-08	3.346E-07	1200
100.0	364	2.156E-07	1.035E-06	1200
102.0	323	1.913E-07	9.182E-07	1200
104.0	156	9.272E-08	4.451E-07	1200
C 106.0	49	5.901E-08	2.832E-07	1200
C 108.0	357	2.117E-07	1.016E-06	1200
110.0	327	1.936E-07	9.291E-07	1200
112.0	109	6.452E-08	3.097E-07	1200
114.0	79	4.733E-08	2.272E-07	1200
116.0	33	1.978E-08	9.493E-08	1200
118.0	48	2.893E-08	1.369E-07	1200
120.0	19	1.135E-08	5.447E-08	1200

CROSSWIND INTEGRATED= 1.774E-04 SEC/30.M
8.515E-04 1/M

TEST U-55 APRIL 14, 1967 1150 TO 1250 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
 1600M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 26M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
62.0	24	1.427E-08	6.847E-08	1600
64.0	79	4.733E-08	2.272E-07	1600
66.0	99	5.868E-08	2.817E-07	1600
68.0	67	3.988E-08	1.914E-07	1600
Q 70.0	146	8.656E-08	4.155E-07	1600
Q 72.0	311	1.845E-07	8.855E-07	1600
74.0	101	5.998E-08	2.879E-07	1600
76.0	78	8.669E-08	2.241E-07	1600
78.0	121	7.198E-08	3.455E-07	1600
80.0	115	6.808E-08	3.268E-07	1600
82.0	139	8.267E-08	3.968E-07	1600
84.0	266	1.576E-07	7.563E-07	1600
86.0	180	1.070E-07	5.136E-07	1600
88.0	141	8.365E-08	4.015E-07	1600
90.0	165	9.741E-08	4.700E-07	1600
92.0	152	9.046E-08	4.342E-07	1600
94.0	109	6.452E-08	3.097E-07	1600
96.0	76	4.539E-08	2.179E-07	1600
98.0	361	2.137E-07	1.026E-06	1600
100.0	134	7.976E-08	3.828E-07	1600
102.0	78	4.636E-08	2.225E-07	1600
104.0	41	2.464E-08	1.183E-07	1600
106.0	72	4.312E-08	2.070E-07	1600
108.0	42	2.496E-08	1.198E-07	1600
W 110.0	95	5.674E-08	2.723E-07	1600
W 112.0	30	1.816E-08	8.715E-08	1600
W 114.0	13	8.105E-09	3.891E-08	1600
W 116.0	18	1.070E-08	5.136E-08	1600
118.0	1	9.726E-10	4.669E-09	1600
120.0	12	7.457E-09	3.579E-08	1600

CROSSWIND INTEGRATED= 1.084E-04 5.205E-04
 SEC/SQ.M 1/P

UNSTABLE SERIES EXPERIMENT: 55F (U-55F)
ZINC SULFIDE AND FLUORESCIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT 51. FLUORESCIN RESULTS ARE PRESENTED HERE. GROUND
LEVEL SAMPLING 100-1600 M ARC.

TEST U55F APRIL 14, 1967 1150 TO 1250 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
100M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
10.0	589	4.794E-07	1.438E-06	100
14.0	1735	1.412E-06	4.236E-06	100
18.0	2455	1.998E-06	5.995E-06	100
22.0	3929	3.197E-06	9.592E-06	100
26.0	3620	3.109E-06	9.326E-06	100
30.0	3602	2.931E-06	8.793E-06	100
34.0	3165	2.576E-06	7.727E-06	100
38.0	5785	4.708E-06	1.412E-05	100
42.0	10152	8.261E-06	2.478E-05	100
46.0	13427	1.093E-05	3.278E-05	100
Z 50.0	9169	7.461E-06	2.238E-05	100
54.0	3165	2.576E-06	7.727E-06	100
C 58.0	13	1.125E-08	3.375E-08	100
C 62.0	21	1.738E-08	5.213E-08	100
C 66.0	41	3.400E-08	1.020E-07	100
C 74.0	12772	1.039E-05	3.118E-05	100
C 78.0	9824	7.994E-06	2.398E-05	100
C 82.0	7641	6.218E-06	1.865E-05	100
C 86.0	7095	5.773E-06	1.732E-05	100
C 90.0	10479	8.527E-06	2.558E-05	100
C 94.0	3602	2.931E-06	8.793E-06	100
C 98.0	4693	3.819E-06	1.146E-05	100
C 102.0	3929	3.197E-06	9.592E-06	100
F 106.0	3711	3.020E-06	9.059E-06	100
110.0	8187	6.662E-06	1.999E-05	100
114.0	223	1.818E-07	5.453E-07	100
118.0	7	6.297E-09	1.889E-08	100
C 122.0	0	8.041E-10	2.427E-09	100
C 126.0	1	8.355E-10	2.506E-09	100
C 130.0	1	1.047E-09	3.140E-09	100
C 134.0	1	8.883E-10	2.665E-09	100
C 138.0	1	1.416E-09	4.248E-09	100
C 142.0	1	1.310E-09	3.931E-09	100
C 146.0	0	2.463E-10	7.386E-10	100
C 150.0	2	1.812E-09	5.435E-09	100

CROSSWIND INTEGRATED= 7.933E-04 2.380E-03
SEC/SQ.M 1/M

TEST U55F APRIL 14, 1967 1150 TO 1250 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
24.0	600	4.882E-07	1.465E-06	200
28.0	604	4.922E-07	1.477E-06	200
32.0	421	3.427E-07	1.028E-06	200
36.0	1866	1.519E-06	4.556E-06	200
40.0	2259	1.838E-06	5.515E-06	200
44.0	3929	3.197E-06	9.592E-06	200
48.0	2324	1.892E-06	5.675E-06	200
52.0	3383	2.753E-06	8.260E-06	200
56.0	3602	2.931E-06	8.793E-06	200
60.0	6658	5.418E-06	1.625E-05	200
64.0	8296	6.750E-06	2.025E-05	200
68.0	3383	2.753E-06	8.260E-06	200
72.0	1899	1.545E-06	4.636E-06	200
76.0	3711	3.020E-06	9.059E-06	200
80.0	5021	4.066E-06	1.226E-05	200
84.0	5457	4.441E-06	1.332E-05	200
88.0	7532	6.129E-06	1.839E-05	200
92.0	12117	9.859E-06	2.958E-05	200
96.0	11134	9.060E-06	2.718E-05	200
100.0	8842	7.195E-06	2.158E-05	200
104.0	10807	8.793E-06	2.638E-05	200
108.0	7095	5.773E-06	1.732E-05	200
112.0	875	7.120E-07	2.136E-06	200
116.0	907	7.384E-07	2.215E-06	200
120.0	6	5.479E-09	1.644E-08	200
124.0	572	4.658E-07	1.397E-06	200
128.0	12	9.964E-09	2.989E-08	200
132.0	3	2.665E-09	7.994E-09	200
136.0	3	2.489E-09	7.467E-09	200
140.0	2	2.225E-09	6.675E-09	200

CROSSWIND INTEGRATED= 1.288E-03 3.863E-03
SEC/SQ.M 1/M

TEST USSF APRIL 14, 1967 1150 TO 1250 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
300M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
18.0	0	5.365E-10	1.609E-09	300
22.0	0	3.254E-10	9.762E-10	300
26.0	323	2.635E-07	7.906E-07	300
30.0	507	4.130E-07	1.239E-06	300
34.0	399	3.251E-07	9.753E-07	300
38.0	421	3.432E-07	1.030E-06	300
42.0	2178	1.773E-06	5.318E-06	300
46.0	1906	1.551E-06	4.653E-06	300
50.0	1838	1.496E-06	4.487E-06	300
58.0	3540	2.881E-06	8.643E-06	300
62.0	5785	4.707E-06	1.412E-05	300
66.0	4584	3.730E-06	1.119E-05	300
70.0	2324	1.892E-06	5.675E-06	300
74.0	3711	3.020E-06	9.059E-06	300
78.0	2030	1.652E-06	4.956E-06	300
82.0	7313	5.951E-06	1.785E-05	300
86.0	18012	1.466E-05	4.397E-05	300
90.0	9824	7.994E-06	2.398E-05	300
94.0	10152	8.261E-06	2.478E-05	300
98.0	8842	7.195E-06	2.158E-05	300
102.0	6440	5.240E-06	1.572E-05	300
106.0	7641	6.218E-06	1.865E-05	300
110.0	4584	3.730E-06	1.119E-05	300
114.0	696	7.297E-07	2.189E-06	300
118.0	410	3.339E-07	1.002E-06	300
122.0	345	2.811E-07	8.434E-07	300
126.0	197	1.606E-07	4.819E-07	300
130.0	6	5.233E-09	1.570E-08	300

CROSSWIND INTEGRATED* 1.822E-03 SEC/SQ.M
5.466E-03 1/M

TEST USSF APRIL 14, 1967 1150 TO 1250 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
400M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
16.0	2	2.155E-09	6.464E-09	400
20.0	7	6.464E-09	1.939E-08	400
24.0	15	1.253E-08	3.760E-08	400
28.0	142	1.157E-07	3.471E-07	400
32.0	77	6.293E-08	1.886E-07	400
36.0	135	1.104E-07	3.313E-07	400
40.0	155	1.262E-07	3.787E-07	400
44.0	496	4.042E-07	1.212E-06	400
48.0	862	7.014E-07	2.104E-06	400
52.0	884	7.199E-07	2.160E-06	400
56.0	1474	1.200E-06	3.600E-06	400
60.0	2450	1.994E-06	5.983E-06	400
64.0	3676	2.992E-06	8.975E-06	400
68.0	2723	2.216E-06	6.648E-06	400
72.0	2995	2.437E-06	7.312E-06	400
76.0	2246	1.828E-06	5.484E-06	400
80.0	3056	2.487E-06	7.460E-06	400
84.0	5785	4.707E-06	1.412E-05	400
88.0	12772	1.039E-05	3.118E-05	400
92.0	8405	6.839E-06	2.052E-05	400
96.0	6986	5.684E-06	1.705E-05	400
100.0	3063	2.493E-06	7.479E-06	400
104.0	2859	2.327E-06	6.980E-06	400
108.0	2382	1.939E-06	5.817E-06	400
112.0	1049	8.861E-07	2.658E-06	400
116.0	1497	1.219E-06	3.656E-06	400
120.0	756	6.152E-07	1.846E-06	400
124.0	4	3.562E-09	1.069E-08	400
128.0	1	8.971E-10	2.691E-09	400
130.0	1	8.179E-10	2.454E-09	400

CROSSWIND INTEGRATED* 1.523E-03 SEC/SQ.M
4.568E-03 1/M

TEST USSF APRIL 14, 1967 1150 TO 1250 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
500M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
22.0	0	2.550E-10	7.651E-10	500
26.0	6	5.268E-09	1.580E-08	500
30.0	96	7.879E-08	2.364E-07	500
34.0	46	3.763E-08	1.129E-07	500
38.0	73	5.944E-08	1.783E-07	500
42.0	2	1.645E-09	4.934E-09	500
46.0	0	4.837E-10	1.451E-09	500
50.0	1	1.117E-09	3.351E-09	500
58.0	1043	8.492E-07	2.548E-06	500
62.0	15	1.294E-08	3.881E-08	500
66.0	2110	1.717E-06	5.152E-06	500
70.0	2042	1.662E-06	4.986E-06	500
74.0	2246	1.828E-06	5.484E-06	500
78.0	1679	1.366E-06	4.099E-06	500
82.0	2791	2.271E-06	6.814E-06	500
86.0	3336	2.715E-06	8.144E-06	500
90.0	5457	4.441E-06	1.332E-05	500
94.0	5130	4.174E-06	1.252E-05	500
98.0	4038	3.286E-06	9.859E-06	500
102.0	3063	2.493E-06	7.479E-06	500
106.0	1474	1.200E-06	3.600E-06	500
110.0	1202	9.785E-07	2.935E-06	500
114.0	537	4.374E-07	1.312E-06	500
118.0	462	3.764E-07	1.129E-06	500
122.0	387	3.155E-07	9.464E-07	500
126.0	7	5.796E-09	1.739E-08	500
130.0	0	2.990E-10	8.971E-10	500

CROSSWIND INTEGRATED* 1.073E-03 SEC/SQ.M
3.219E-03 1/M

TEST USSF APRIL 14, 1967 1150 TO 1250 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
600M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
32.0	0	1.055E-10	3.166E-10	600
36.0	9	7.546E-09	2.264E-08	600
40.0	19	1.546E-08	4.638E-08	600
44.0	51	4.158E-08	1.247E-07	600
48.0	226	1.041E-07	5.522E-07	600
52.0	213	1.735E-07	5.205E-07	600
56.0	431	3.512E-07	1.053E-06	600
60.0	334	2.720E-07	8.160E-07	600
64.0	1474	1.200E-06	3.600E-06	600
68.0	1633	1.329E-06	3.987E-06	600
72.0	2178	1.772E-06	5.317E-06	600
76.0	2178	1.772E-06	5.317E-06	600
80.0	1837	1.495E-06	4.486E-06	600
84.0	3131	2.508E-06	7.644E-06	600
88.0	4357	3.505E-06	1.064E-05	600
92.0	4221	3.435E-06	1.030E-05	600
96.0	44	3.649E-08	1.095E-07	600
100.0	3199	2.603E-06	7.810E-06	600
104.0	1905	1.551E-06	4.652E-06	600
108.0	657	5.350E-07	1.605E-06	600
112.0	485	3.951E-07	1.185E-06	600
116.0	83	6.797E-08	2.039E-07	600
120.0	0	0.000E+00	0.000E+00	600
124.0	62	5.126E-08	1.538E-07	600
128.0	2	1.653E-09	4.960E-09	600

CROSSWIND INTEGRATED* 9.795E-04 SEC/SQ.M
2.939E-03 1/M

TEST U55F APRIL 14, 1967 1150 TO 1250 PST
 FLUORESCCEIN RELEASE FROM ELEVATION OF 2M
 700M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
26.0	3	2.515E-09	7.546E-09	700
30.0	0	3.078E-10	9.234E-10	700
34.0	10	8.672E-09	2.601E-08	700
38.0	37	3.022E-08	9.066E-08	700
42.0	6	5.505E-09	1.652E-08	700
46.0	96	7.859E-08	2.358E-07	700
50.0	151	1.234E-07	3.703E-07	700
54.0	187	1.525E-07	4.574E-07	700
P 58.0	0	4.134E-10	1.240E-09	700
P 62.0	0	1.759E-10	5.277E-10	700
P 66.0	0	7.036E-10	2.111E-09	700
P 70.0	1	9.410E-10	2.823E-09	700
74.0	2178	1.772E-06	5.317E-06	700
78.0	2042	1.662E-06	4.985E-06	700
82.0	2723	2.218E-06	6.647E-06	700
86.0	3608	2.936E-06	8.808E-06	700
90.0	2927	2.382E-06	7.146E-06	700
94.0	2859	2.327E-06	6.980E-06	700
98.0	2723	2.216E-06	6.647E-06	700
102.0	2382	1.939E-06	5.816E-06	700
106.0	1520	1.237E-06	3.711E-06	700
110.0	777	6.327E-07	1.898E-06	700
114.0	680	5.535E-07	1.661E-06	700
118.0	431	3.512E-07	1.054E-06	700
122.0	129	1.050E-07	3.149E-07	700
126.0	6	5.242E-09	1.572E-08	700
130.0	0	0.000E+00	0.000E+00	700

CROSSWIND INTEGRATED= 1.013E-03 SEC/SQ.M
 3.040E-03 1/M

TEST U55F APRIL 14, 1967 1150 TO 1250 PST
 FLUORESCCEIN RELEASE FROM ELEVATION OF 2M
 800M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
34.0	14	1.219E-08	3.657E-08	800
37.0	19	1.562E-08	4.686E-08	800
40.0	17	1.404E-08	4.211E-08	800
43.0	9	7.704E-09	2.311E-08	800
46.0	33	2.740E-08	8.221E-08	800
49.0	35	2.916E-08	8.749E-08	800
52.0	47	3.084E-08	1.165E-07	800
55.0	170	1.391E-07	4.173E-07	800
58.0	355	2.895E-07	8.685E-07	800
61.0	312	2.543E-07	7.629E-07	800
67.0	929	7.565E-07	2.269E-06	800
70.0	861	7.011E-07	2.103E-06	800
73.0	1088	8.858E-07	2.657E-06	800
76.0	1270	1.034E-06	3.101E-06	800
79.0	1497	1.218E-06	3.655E-06	800
82.0	1610	1.311E-06	3.932E-06	800
85.0	2722	2.216E-06	6.647E-06	800
88.0	2246	1.828E-06	5.483E-06	800
91.0	1497	1.218E-06	3.655E-06	800
94.0	2178	1.772E-06	5.317E-06	800
97.0	2518	2.049E-06	6.148E-06	800
100.0	1474	1.200E-06	3.599E-06	800
103.0	1542	1.255E-06	3.765E-06	800
106.0	1088	8.858E-07	2.657E-06	800
109.0	907	7.380E-07	2.214E-06	800
112.0	485	3.950E-07	1.185E-06	800
115.0	420	3.423E-07	1.027E-06	800
118.0	222	1.813E-07	5.439E-07	800
121.0	128	1.048E-07	3.144E-07	800
124.0	5	4.362E-09	1.309E-08	800
127.0	1	8.443E-10	2.533E-09	800

CROSSWIND INTEGRATED= 8.976E-04 SEC/SQ.M
 2.693E-03 1/M

TEST USSF APRIL 14, 1967 1150 TO 1250 PST
 FLUORESCENCE RELEASE FROM ELEVATION OF 2M
 1200M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
56.0	8	6.990E-09	2.097E-08	1200
58.0	16	1.337E-08	4.010E-08	1200
60.0	46	3.789E-08	1.137E-07	1200
62.0	51	4.231E-08	1.269E-07	1200
64.0	71	5.850E-08	1.755E-07	1200
66.0	95	7.763E-08	2.329E-07	1200
68.0	122	9.970E-08	2.991E-07	1200
70.0	222	1.811E-07	5.434E-07	1200
72.0	276	2.253E-07	6.758E-07	1200
Q 74.0	594	4.838E-07	1.451E-06	1200
Q 76.0	505	4.117E-07	1.235E-06	1200
78.0	403	3.283E-07	9.849E-07	1200
80.0	457	3.724E-07	1.117E-06	1200
Q 82.0	847	6.898E-07	2.069E-06	1200
Q 84.0	898	7.310E-07	2.193E-06	1200
86.0	397	3.234E-07	9.701E-07	1200
88.0	252	2.057E-07	6.170E-07	1200
90.0	409	3.332E-07	9.996E-07	1200
92.0	313	2.587E-07	7.641E-07	1200
Q 94.0	150	1.223E-07	3.668E-07	1200
Q 96.0	82	6.733E-08	2.020E-07	1200
98.0	475	3.872E-07	1.161E-06	1200
100.0	457	3.724E-07	1.117E-06	1200
102.0	307	2.498E-07	7.494E-07	1200
104.0	240	1.958E-07	5.875E-07	1200
C 106.0	409	3.332E-07	9.996E-07	1200
C 108.0	282	2.302E-07	6.905E-07	1200
110.0	120	9.823E-08	2.947E-07	1200
112.0	117	9.529E-08	2.859E-07	1200
114.0	62	5.114E-08	1.534E-07	1200
116.0	39	3.250E-08	9.749E-08	1200
118.0	15	1.239E-08	3.716E-08	1200
120.0	13	1.091E-08	3.274E-08	1200
122.0	1	1.447E-09	4.341E-09	1200
124.0	1	1.006E-09	3.017E-09	1200
126.0	0	1.030E-10	3.090E-10	1200

CROSSWIND INTEGRATED* 2.990E-04 8.970E-04
 SEC/SQ.M 1/M

TEST USSF APRIL 14, 1967 1150 TO 1250 PST
 FLUORESCENCE RELEASE FROM ELEVATION OF 2M
 1600M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
58.0	6	5.533E-09	1.660E-08	1600
60.0	10	8.918E-09	2.675E-08	1600
62.0	27	2.221E-08	6.663E-08	1600
64.0	46	3.791E-08	1.137E-07	1600
66.0	66	5.410E-08	1.623E-07	1600
68.0	93	7.617E-08	2.285E-07	1600
C 70.0	97	7.911E-08	2.373E-07	1600
C 72.0	0	0.000E+00	0.000E+00	1600
74.0	70	5.704E-08	1.711E-07	1600
76.0	180	1.468E-07	4.404E-07	1600
78.0	150	1.223E-07	3.668E-07	1600
80.0	126	1.027E-07	3.080E-07	1600
82.0	240	1.959E-07	5.876E-07	1600
84.0	337	2.743E-07	8.230E-07	1600
86.0	240	1.959E-07	5.876E-07	1600
88.0	210	1.713E-07	5.140E-07	1600
90.0	222	1.811E-07	5.434E-07	1600
92.0	264	2.155E-07	6.464E-07	1600
94.0	228	1.860E-07	5.581E-07	1600
96.0	186	1.517E-07	4.551E-07	1600
98.0	355	2.891E-07	8.672E-07	1600
100.0	111	9.089E-08	2.727E-07	1600
102.0	162	1.321E-07	3.963E-07	1600
104.0	115	9.383E-08	2.815E-07	1600
106.0	95	7.764E-08	2.329E-07	1600
108.0	93	7.617E-08	2.285E-07	1600
W 110.0	102	8.353E-08	2.506E-07	1600
W 112.0	33	2.761E-08	8.282E-08	1600
W 114.0	24	1.976E-08	5.928E-08	1600
W 116.0	28	2.319E-08	6.958E-08	1600
118.0	5	4.356E-09	1.307E-08	1600
120.0	5	4.209E-09	1.263E-08	1600
122.0	0	6.475E-10	1.942E-09	1600

CROSSWIND INTEGRATED* 1.791E-04 5.374E-04
 SEC/SQ.M 1/M

SERIES 163 EXPERIMENT: 1 (FT-1)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS. A SIGNIFICANT
PORTION OF THE PLUME NEVER PASSED OVER THE GRID.

TEST FT1 APRIL 23, 1963 0516 TO 0601 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC SAMPLER HT 1.5M U= 1.5 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SG.M	DISTANCE METERS
80.0	1016	3.554E-06	5.330E-06	200
70.0	496	1.741E-06	2.612E-06	200
72.0	528	1.847E-06	2.771E-06	200
74.0	794	2.777E-06	4.165E-06	200
76.0	1692	5.919E-06	8.878E-06	200
78.0	1871	6.542E-06	9.813E-06	200
80.0	2614	9.143E-06	1.371E-05	200
82.0	4122	1.401E-05	2.162E-05	200
84.0	5407	1.891E-05	2.836E-05	200
86.0	11812	4.130E-05	6.195E-05	200
88.0	11472	4.011E-05	6.017E-05	200
90.0	8120	2.839E-05	4.259E-05	200
92.0	5835	2.040E-05	3.061E-05	200
94.0	4452	1.557E-05	2.335E-05	200
96.0	2177	7.613E-06	1.142E-05	200
98.0	2029	7.095E-06	1.064E-05	200
100.0	747	2.612E-06	3.918E-06	200
102.0	366	1.283E-06	1.924E-06	200
104.0	158	5.530E-07	8.295E-07	200
106.0	100	3.530E-07	5.295E-07	200
108.0	70	2.471E-07	3.706E-07	200

CROSSWIND INTEGRATED* 1.423E-03 2.135E-03
SEC/SG.M 1/M

TOWER DATA FOLLOWS....

TEST FT1 APRIL 23, 1963 0516 TO 0601 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC U= 1.5 M/SEC AT 7M

AZIMUTH HEIGHT DEGREES METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SG.M	DISTANCE METERS
94.0 0.3	971	3.348E-06	5.096E-06	200
94.0 0.7	1474	5.854E-06	8.780E-06	200
94.0 1.3	1752	6.124E-06	9.189E-06	200
94.0 2.7	1845	6.311E-06	9.467E-06	200
94.0 4.1	1504	4.481E-06	1.067E-05	200
94.0 5.0	1004	3.545E-06	9.884E-06	200
94.0 6.4	2179	7.619E-06	1.143E-05	200
94.0 8.1	2287	8.000E-06	1.200E-05	200
94.0 9.4	1675	4.908E-06	1.034E-05	200
94.0 10.4	2185	6.380E-06	1.251E-05	200
94.0 13.5	2522	9.026E-06	1.354E-05	200
94.0 16.2	1844	4.580E-06	9.884E-06	200
94.0 18.6	1613	1.263E-05	1.895E-05	200
94.0 21.6	2302	1.504E-05	2.256E-05	200
94.0 24.3	2617	9.151E-06	1.373E-05	200
94.0 27.1	2185	7.501E-06	1.125E-05	200

AZIMUTH HEIGHT DEGREES METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SG.M	DISTANCE METERS
104.0 0.3	114	9.977E-07	6.116E-07	200
104.0 0.7	261	9.141E-07	1.371E-06	200
104.0 1.3	100	3.501E-07	5.251E-07	200
104.0 2.7	29	1.030E-07	1.504E-07	200

AZIMUTH HEIGHT EXPOSURE E/Q EU/Q DISTANCE
DEGREES METERS GM-SEC/CU.M SEC/CU.M 1/SG.M METERS

114.0 24.3	48	1.690E-07	2.535E-07	200
114.0 27.0	44	1.300E-07	4.950E-07	200

TEST FT1 APRIL 23, 1963 0516 TO 0601 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
800M ARC SAMPLER HT 1.5M U= 1.5 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SG.M	DISTANCE METERS
70.0	2493	8.719E-06	1.308E-05	800
72.0	2151	7.524E-06	1.129E-05	800
74.0	2099	7.341E-06	1.101E-05	800
76.0	2418	8.457E-06	1.269E-05	800
78.0	3040	1.063E-05	1.595E-05	800
80.0	3105	1.086E-05	1.629E-05	800
82.0	7347	2.569E-05	3.853E-05	800
84.0	12757	4.461E-05	6.691E-05	800
86.0	11279	3.944E-05	5.916E-05	800
88.0	4908	1.716E-05	2.575E-05	800
90.0	3020	1.056E-05	1.584E-05	800
92.0	1178	4.120E-06	6.180E-06	800
94.0	836	2.925E-06	4.388E-06	800
96.0	240	8.423E-07	1.263E-06	800
98.0	26	9.106E-08	1.366E-07	800
100.0	9	3.415E-08	5.122E-08	800
102.0	41	3.187E-07	4.780E-07	800

CROSSWIND INTEGRATED* 5.566E-03 8.349E-03
SEC/SG.M 1/M

TOWER DATA FOLLOWS....

TEST FT1 APRIL 23, 1963 0516 TO 0601 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
800M ARC U= 1.5 M/SEC AT 7M

AZIMUTH HEIGHT DEGREES METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SG.M	DISTANCE METERS
94.0 0.3	40	1.558E-07	2.330E-07	800
94.0 0.7	19	6.972E-08	1.046E-07	800
94.0 1.3	0	0.000E+00	0.000E+00	800
94.0 2.7	37	1.255E-07	1.942E-07	800
94.0 4.1	17	5.974E-08	8.943E-08	800
94.0 5.0	11	3.680E-08	5.976E-08	800
94.0 6.4	08	3.047E-07	4.631E-07	800
94.0 8.1	00	1.693E-07	2.540E-07	800
94.0 9.4	69	2.091E-07	3.137E-07	800
94.0 10.4	14	1.090E-08	7.470E-08	800
94.0 13.5	024	1.448E-06	2.226E-06	800
94.0 16.2	358	1.253E-06	1.880E-06	800
94.0 18.6	162	5.683E-07	8.525E-07	800
94.0 21.6	138	4.827E-07	7.260E-07	800
94.0 24.3	64	2.258E-07	3.387E-07	800

AZIMUTH HEIGHT DEGREES METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SG.M	DISTANCE METERS
104.0 0.3	68	2.390E-07	3.505E-07	800

TEST FT1 APRIL 23, 1963 0516 TO 0601 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M APC SAMPLER HT 1.5M U= 1.5 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/O SEC/CM	EU/O 1/SQ.M	DISTANCE METERS
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70.0	836	2.924E-06	4.386E-06	1600
71.0	1181	4.130E-06	6.195E-06	1600
72.0	1688	5.903E-06	8.855E-06	1600
73.0	1810	6.329E-06	9.493E-06	1600
74.0	1187	4.154E-06	6.230E-06	1600
75.0	1460	5.107E-06	7.661E-06	1600
76.0	1958	6.849E-06	1.027E-05	1600
77.0	1805	6.313E-06	9.470E-06	1600
78.0	1598	5.588E-06	8.382E-06	1600
79.0	1361	4.760E-06	7.141E-06	1600
80.0	1366	4.776E-06	7.164E-06	1600
81.0	1287	4.500E-06	6.751E-06	1600
82.0	2028	7.093E-06	1.064E-05	1600
83.0	2154	7.535E-06	1.130E-05	1600
84.0	2979	1.042E-05	1.563E-05	1600
85.0	1442	5.044E-06	7.566E-06	1600
86.0	1444	5.052E-06	7.578E-06	1600
87.0	637	2.230E-06	3.346E-06	1600
88.0	119	4.177E-07	6.266E-07	1600
89.0	56	1.970E-07	2.956E-07	1600
90.0	6	2.364E-08	3.547E-08	1600
91.0	27	9.458E-08	1.419E-07	1600
92.0	4	1.576E-08	2.364E-08	1600
93.0	29	1.025E-07	1.537E-07	1600
94.0	27	9.458E-08	1.419E-07	1600
95.0	90	3.153E-07	4.729E-07	1600
100.0	58	2.049E-07	3.074E-07	1600
F 129.0	105	3.704E-07	5.557E-07	1600
Z 146.0	144	5.044E-07	7.566E-07	1600
7 154.0	92	3.231E-07	4.847E-07	1600

CROSSWIND INTEGRATED= 3.433E-03 5.150E-03
SFC/SQ.M 1/M

TORQUE DATA FOLLOW.....

TEST FT1 APRIL 23, 1963 0516 TO 0601 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M APC SAMPLER HT 1.5M U= 1.5 M/SEC AT 7M

AZIMUTH HEIGHT DEGREES METERS	EXPOSURE GM-SEC/CM X10E+6	E/O SEC/CM	EU/O 1/SQ.M	DISTANCE METERS
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98.0	0.2	33	1.182E-07	1.773E-07	1600
98.0	0.2	31	1.103E-07	1.655E-07	1600
99.0	0.9	9	3.153E-08	4.729E-08	1600
99.0	1.5	259	9.022E-07	1.354E-06	1600
99.0	9.3	71	2.508E-07	3.762E-07	1600
99.0	12.0	16	5.732E-08	8.598E-08	1600
99.0	15.5	198	6.444E-07	9.673E-07	1600
99.0	31.0	13	4.804E-08	7.205E-08	1600
99.0	37.2	1	6.005E-09	9.007E-09	1600
99.0	43.0	20	7.205E-08	1.081E-07	1600
99.0	49.6	12	8.307E-08	1.246E-07	1600

AZIMUTH HEIGHT DEGREES METERS	EXPOSURE GM-SEC/CM X10E+6	E/O SEC/CM	EU/O 1/SQ.M	DISTANCE METERS
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106.0	0.8	110	3.862E-07	5.793E-07	1600
106.0	1.5	59	2.077E-07	3.117E-07	1600
106.0	3.1	75	2.651E-07	3.977E-07	1600
106.0	15.5	86	3.009E-07	4.514E-07	1600
106.0	18.6	30	1.075E-07	1.612E-07	1600

AZIMUTH HEIGHT DEGREES METERS	EXPOSURE GM-SEC/CM X10E+6	E/O SEC/CM	EU/O 1/SQ.M	DISTANCE METERS
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114.0	09.6	12	4.307E-08	6.461E-08	1600
114.0	55.0	21	7.045E-08	1.116E-07	1600
114.0	62.0	25	1.331E-07	1.997E-07	1600

TEST FT1 APRIL 23, 1963 0516 TO 0601 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M APC SAMPLER HT 1.5M U= 1.5 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/O SEC/CM	EU/O 1/SQ.M	DISTANCE METERS
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71.0	295	1.034E-06	1.551E-06	3200
72.0	668	2.338E-06	3.507E-06	3200
73.0	1077	3.768E-06	5.651E-06	3200
74.0	1150	4.024E-06	6.036E-06	3200
75.0	1133	3.964E-06	5.945E-06	3200
76.0	839	2.937E-06	4.406E-06	3200
77.0	736	2.573E-06	3.860E-06	3200
78.0	593	2.074E-06	3.112E-06	3200
79.0	401	1.404E-06	2.107E-06	3200
80.0	313	1.098E-06	1.647E-06	3200
T 81.0	273	9.553E-07	1.433E-06	3200
82.0	321	1.123E-06	1.684E-06	3200
83.0	289	1.012E-06	1.518E-06	3200
84.0	254	8.911E-07	1.337E-06	3200
85.0	80	2.816E-07	4.224E-07	3200
86.0	71	2.495E-07	3.743E-07	3200
87.0	28	9.980E-08	1.497E-07	3200
88.0	1	3.564E-09	5.347E-09	3200
89.0	7	2.495E-08	3.743E-08	3200
90.0	0	0.000E+00	0.000E+00	3200
91.0	265	9.267E-07	1.390E-06	3200
92.0	39	1.390E-07	2.085E-07	3200
93.0	118	4.135E-07	6.202E-07	3200
94.0	34	1.212E-07	1.818E-07	3200
95.0	0	0.000E+00	0.000E+00	3200
96.0	1	3.564E-09	5.347E-09	3200
97.0	35	1.208E-07	1.871E-07	3200
98.0	2	7.129E-09	1.069E-08	3200
99.0	1	3.564E-09	5.347E-09	3200
100.0	42	2.887E-07	4.331E-07	3200
101.0	0	0.000E+00	0.000E+00	3200
102.0	0	0.000E+00	0.000E+00	3200
103.0	60	2.103E-07	3.154E-07	3200
104.0	14	4.990E-08	7.485E-08	3200
105.0	58	2.032E-07	3.048E-07	3200
106.0	23	8.198E-08	1.230E-07	3200
107.0	5	1.782E-08	2.673E-08	3200
108.0	8	2.852E-08	4.277E-08	3200

CROSSWIND INTEGRATED= 1.814E-03 2.721E-03
SFC/SQ.M 1/M

THREE DATA FILES....

TEST #11 APRIL 21, 1963 0516 TO 0601 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200 ARC 1 = 1.5 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CM-SEC/CM ² TIME	E/G SEC/CM ²	FL/G 1/SEC	DISTANCE METERS
00.0	0.2	13	4.434E-08	6.951E-08	3200
00.0	0.4	40	1.426E-07	2.139E-07	3200
00.0	0.8	28	8.555E-08	1.283E-07	3200
00.0	1.5	28	9.005E-08	1.477E-07	3200
00.0	3.1	8	3.055E-08	4.583E-08	3200
00.0	6.2	0	0.000E+00	0.000E+00	3200
00.0	9.3	15	5.031E-08	8.147E-08	3200
00.0	12.4	12	4.413E-08	6.620E-08	3200
00.0	15.5	6	2.374E-08	3.564E-08	3200
00.0	18.6	60	2.105E-07	3.157E-07	3200
00.0	21.7	0	0.000E+00	0.000E+00	3200
00.0	24.8	22	7.777E-08	1.167E-07	3200
00.0	31.0	22	7.777E-08	1.167E-07	3200
00.0	37.2	5	1.974E-08	2.916E-08	3200
00.0	43.4	30	1.069E-07	1.600E-07	3200
00.0	49.6	11	4.039E-08	6.058E-08	3200
00.0	55.8	7	2.777E-08	4.165E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CM-SEC/CM ² TIME	E/G SEC/CM ²	FL/G 1/SEC	DISTANCE METERS
106.0	0.8	40	1.426E-07	2.139E-07	3200
106.0	6.2	22	7.808E-08	1.171E-07	3200
106.0	9.3	43	1.528E-07	2.291E-07	3200
106.0	12.4	5	2.037E-08	3.055E-08	3200
106.0	15.5	1	6.789E-09	1.018E-08	3200
106.0	18.6	0	3.395E-08	5.092E-08	3200
106.0	21.7	37	1.324E-07	1.986E-07	3200
106.0	24.8	10	3.564E-08	5.347E-08	3200
106.0	37.2	20	7.125E-08	1.069E-07	3200
106.0	43.4	122	4.277E-07	6.416E-07	3200
106.0	49.6	3	1.262E-08	1.893E-08	3200
106.0	55.8	10	3.786E-08	5.680E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CM-SEC/CM ² TIME	E/G SEC/CM ²	FL/G 1/SEC	DISTANCE METERS
110.0	18.6	0	3.345E-08	5.092E-08	3200
110.0	21.7	37	1.328E-07	1.986E-07	3200
110.0	62.0	27	9.592E-08	1.439E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. ² X10E+6	E/O SEC/CM. ²	EU/O 1/SG.M	DISTANCE METERS
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122.0	0.7	250	6.480E-07	4.240E-07	200
122.0	1.0	201	6.714E-07	3.357E-07	200
122.0	2.7	392	1.307E-06	6.537E-07	200
122.0	4.1	791	2.638E-06	1.319E-06	200
122.0	5.4	346	1.154E-06	5.771E-07	200
122.0	6.8	551	1.837E-06	9.187E-07	200
122.0	8.1	190	6.360E-07	3.180E-07	200
122.0	9.4	487	1.625E-06	8.127E-07	200
122.0	10.8	1268	4.228E-06	2.114E-06	200
122.0	13.5	3628	1.210E-05	6.048E-06	200
122.0	16.2	9738	3.246E-05	1.623E-05	200
122.0	18.9	18794	6.265E-05	3.132E-05	200
122.0	21.6	16282	5.427E-05	2.714E-05	200
122.0	24.3	4709	1.570E-05	7.849E-06	200
122.0	27.0	2775	9.251E-06	4.626E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. ² X10E+6	E/O SEC/CM. ²	EU/O 1/SG.M	DISTANCE METERS
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130.0	0.3	180	6.007E-07	3.003E-07	200
130.0	0.7	45	1.531E-07	7.656E-08	200
130.0	1.0	204	6.831E-07	3.416E-07	200
130.0	2.7	127	4.240E-07	2.120E-07	200
130.0	4.1	155	5.182E-07	2.591E-07	200
130.0	5.4	102	3.416E-07	1.708E-07	200
130.0	6.8	194	6.478E-07	3.239E-07	200
130.0	8.1	884	2.815E-06	1.408E-06	200
130.0	9.4	2081	6.937E-06	3.469E-06	200
130.0	10.8	3010	1.004E-05	5.018E-06	200
130.0	13.5	6696	2.232E-05	1.116E-05	200
130.0	16.2	10162	3.387E-05	1.694E-05	200
130.0	18.9	8586	2.862E-05	1.431E-05	200
130.0	21.6	5317	1.773E-05	8.863E-06	200
130.0	24.3	2611	8.705E-06	4.353E-06	200
130.0	27.0	2357	7.859E-06	3.930E-06	200

TEST FT3 MAY 16, 1963 0355 TO 0415 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
800M ARC SAMPLER HT 1.5M U= 0.5 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. ² X10E+6	E/O SEC/CM. ²	EU/O 1/SG.M	DISTANCE METERS
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70.0	1647	5.492E-06	2.746E-06	800
72.0	1295	4.284E-06	2.142E-06	800
74.0	898	2.994E-06	1.492E-06	800
76.0	741	2.472E-06	1.236E-06	800
78.0	599	1.333E-06	6.665E-07	800
80.0	628	2.096E-06	1.048E-06	800
82.0	365	1.219E-06	6.096E-07	800
84.0	721	2.400E-06	1.202E-06	800
86.0	512	1.709E-06	8.545E-07	800
88.0	586	1.823E-06	9.115E-07	800
90.0	625	2.085E-06	1.043E-06	800
92.0	946	3.156E-06	1.578E-06	800
94.0	700	2.336E-06	1.168E-06	800
96.0	468	1.561E-06	7.805E-07	800
98.0	868	2.894E-06	1.447E-06	800
100.0	135	4.557E-07	2.279E-07	800
X 102.0	485	1.618E-06	8.089E-07	800
X 104.0	1411	4.706E-06	2.353E-06	800
X 106.0	1473	4.911E-06	2.455E-06	800
X 108.0	1510	5.036E-06	2.518E-06	800
X 110.0	1794	5.982E-06	2.991E-06	800
112.0	1510	5.036E-06	2.518E-06	800
114.0	2238	7.463E-06	3.731E-06	800
116.0	2300	7.668E-06	3.830E-06	800
118.0	2225	7.417E-06	3.709E-06	800
120.0	2119	7.060E-06	3.532E-06	800
122.0	1572	5.241E-06	2.621E-06	800
124.0	1527	5.093E-06	2.546E-06	800
126.0	1401	4.671E-06	2.336E-06	800
128.0	1941	6.472E-06	3.236E-06	800
130.0	1442	4.808E-06	2.404E-06	800
132.0	1086	3.623E-06	1.812E-06	800
134.0	1213	4.045E-06	2.022E-06	800
136.0	1244	4.147E-06	2.074E-06	800
138.0	1845	6.152E-06	3.076E-06	800
140.0	745	2.552E-06	1.276E-06	800
142.0	827	2.757E-06	1.379E-06	800
144.0	1093	3.646E-06	1.823E-06	800
146.0	1353	4.512E-06	2.256E-06	800
148.0	1524	5.081E-06	2.541E-06	800
150.0	1268	4.227E-06	2.113E-06	800
152.0	1203	4.011E-06	2.005E-06	800
154.0	1367	4.557E-06	2.279E-06	800
156.0	1418	4.728E-06	2.364E-06	800
158.0	2064	6.882E-06	3.441E-06	800
160.0	0	0.000E+00	0.000E+00	800

CROSS-SECTIONAL INTEGRATION = 2.547E-03
SEC/SG.M 1/4

TOWER DATA FOLLOW...

TEST FY3 MAY 16, 1963 0355 TO 0415 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
A00N ARC U= 0.5 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/O SEC/CM ²	EU/O 1/SEC ²	DISTANCE METERS
98.0	0.3	714	2.381E-06	1.191E-06	800
98.0	0.5	635	2.119E-06	1.060E-06	800
98.0	1.0	375	1.253E-06	6.266E-07	800
98.0	2.1	646	2.153E-06	1.077E-06	800
98.0	4.2	273	9.115E-07	4.557E-07	800
98.0	6.3	343	1.310E-06	6.551E-07	800
98.0	8.4	471	1.572E-06	7.862E-07	800
98.0	10.5	403	1.344E-06	6.722E-07	800
98.0	12.6	540	1.800E-06	9.001E-07	800
98.0	14.7	3267	1.049E-05	5.446E-06	800
98.0	16.8	3414	1.138E-05	5.691E-06	800
98.0	21.0	13713	4.571E-05	2.286E-05	800
98.0	25.2	6363	2.121E-05	1.061E-05	800
98.0	29.4	9004	3.002E-05	1.501E-05	800
98.0	33.6	6711	2.237E-05	1.119E-05	800
98.0	37.8	3588	1.196E-05	5.982E-06	800
98.0	42.0	1923	6.411E-06	3.206E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/O SEC/CM ²	EU/O 1/SEC ²	DISTANCE METERS
Q 106.0	0.3	700	2.336E-06	1.168E-06	800
Q 106.0	0.5	944	3.281E-06	1.641E-06	800
Q 106.0	1.0	1241	4.273E-06	2.136E-06	800
Q 106.0	2.1	2560	8.534E-06	4.267E-06	800
Q 106.0	4.2	4187	1.396E-05	6.979E-06	800
106.0	6.3	5062	1.821E-05	9.103E-06	800
106.0	8.4	6836	2.279E-05	1.139E-05	800
106.0	10.5	6179	2.060E-05	1.030E-05	800
106.0	12.6	6422	2.141E-05	1.070E-05	800
106.0	14.7	5861	1.954E-05	9.770E-06	800
106.0	16.8	4747	1.583E-05	7.913E-06	800
106.0	21.0	1121	3.737E-06	1.869E-06	800
106.0	25.2	2532	8.442E-06	4.221E-06	800
106.0	29.4	2597	8.524E-06	4.262E-06	800
106.0	33.6	2262	7.540E-06	3.770E-06	800
106.0	37.8	1907	6.360E-06	3.180E-06	800
106.0	42.0	1426	4.754E-06	2.377E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/O SEC/CM ²	EU/O 1/SEC ²	DISTANCE METERS
114.0	0.3	1298	4.330E-06	2.165E-06	800
114.0	0.5	1641	5.537E-06	2.769E-06	800
114.0	1.0	1743	5.811E-06	2.905E-06	800
114.0	2.1	560	1.869E-06	9.343E-07	800
114.0	4.2	3444	1.162E-05	5.811E-06	800
114.0	6.3	3219	1.073E-05	5.366E-06	800
114.0	8.4	2867	9.559E-06	4.780E-06	800
114.0	10.5	2864	9.548E-06	4.774E-06	800
114.0	12.6	1565	5.218E-06	2.609E-06	800
114.0	14.7	1326	4.421E-06	2.210E-06	800
114.0	16.8	1251	4.170E-06	2.085E-06	800
114.0	21.0	1743	5.879E-06	2.940E-06	800
114.0	25.2	1681	5.604E-06	2.802E-06	800
114.0	29.4	1397	4.526E-06	2.263E-06	800
114.0	33.6	400	1.336E-06	6.681E-07	800
114.0	37.8	164	5.490E-07	2.745E-07	800
114.0	42.0	239	7.975E-07	3.988E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/O SEC/CM ²	EU/O 1/SEC ²	DISTANCE METERS
122.0	0.3	1447	4.808E-06	2.404E-06	800
122.0	0.5	1596	5.321E-06	2.660E-06	800
122.0	1.0	2136	7.121E-06	3.560E-06	800
122.0	2.1	1739	5.799E-06	2.900E-06	800
122.0	4.2	1418	4.728E-06	2.364E-06	800
122.0	6.3	1917	6.392E-06	3.196E-06	800
122.0	8.4	1604	5.355E-06	2.677E-06	800
122.0	10.5	1736	5.788E-06	2.894E-06	800
122.0	12.6	1104	3.680E-06	1.840E-06	800
122.0	14.7	721	2.404E-06	1.202E-06	800
122.0	16.8	304	1.014E-06	5.070E-07	800
122.0	21.0	51	1.709E-07	8.545E-08	800
122.0	25.2	12	4.143E-08	2.072E-08	800
122.0	29.4	0	0.000E+00	0.000E+00	800
122.0	33.6	71	2.392E-07	1.191E-07	800
122.0	37.8	99	3.314E-07	1.657E-07	800
122.0	42.0	124	4.143E-07	2.072E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/O SEC/CM ²	EU/O 1/SEC ²	DISTANCE METERS
130.0	0.3	1688	5.628E-06	2.814E-06	800
130.0	0.5	2047	6.825E-06	3.412E-06	800
130.0	1.0	1674	5.583E-06	2.791E-06	800
130.0	2.1	2037	6.791E-06	3.395E-06	800
130.0	4.2	1145	3.817E-06	1.908E-06	800
130.0	6.3	1360	4.535E-06	2.267E-06	800
130.0	8.4	560	1.869E-06	9.343E-07	800
130.0	10.5	512	1.709E-06	8.545E-07	800
130.0	12.6	232	7.748E-07	3.874E-07	800
130.0	14.7	41	1.367E-07	6.836E-08	800

TEST FT3 MAY 16, 1963 0355 TO 0415 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC SAMPLER HT 1.5M U= 0.5 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM. X10E+6	EU/O 1/50.M	DISTANCE METERS
83.0	78	1.277E-07	6.387E-08	1600
84.0	60	2.029E-07	1.010E-07	1600
85.0	121	4.057E-07	2.029E-07	1600
86.0	132	4.033E-07	2.217E-07	1600
87.0	270	7.364E-07	3.682E-07	1600
88.0	24	8.265E-08	4.133E-08	1600
89.0	484	1.615E-06	8.077E-07	1600
90.0	480	1.600E-06	8.002E-07	1600
91.0	529	1.766E-06	8.829E-07	1600
92.0	49	1.653E-07	8.265E-08	1600
93.0	18	6.011E-08	3.006E-08	1600
94.0	487	1.600E-06	8.040E-07	1600
95.0	676	2.254E-06	1.127E-06	1600
96.0	764	2.587E-06	1.274E-06	1600
97.0	538	1.706E-06	8.979E-07	1600
98.0	24	8.265E-08	4.133E-08	1600
99.0	209	6.988E-07	3.494E-07	1600
100.0	522	1.703E-06	8.716E-07	1600
101.0	818	2.728E-06	1.364E-06	1600
102.0	903	3.013E-06	1.507E-06	1600
103.0	2468	8.228E-06	4.114E-06	1600
104.0	2608	8.693E-06	4.347E-06	1600
105.0	4093	1.365E-05	6.823E-06	1600
106.0	8335	2.779E-05	1.389E-05	1600
107.0	6383	2.114E-05	1.057E-05	1600
G 108.0	2	7.510E-09	3.757E-09	1600
G 109.0	42	1.428E-07	7.138E-08	1600
G 110.0	0	0.000E+00	0.000E+00	1600
G 111.0	0	0.000E+00	0.000E+00	1600
G 112.0	0	0.000E+00	0.000E+00	1600
113.0	4772	1.591E-05	7.953E-06	1600
114.0	3883	1.295E-05	6.473E-06	1600
115.0	3324	1.108E-05	5.541E-06	1600
116.0	3185	1.062E-05	5.309E-06	1600
117.0	2901	9.670E-06	4.835E-06	1600
118.0	1305	4.350E-06	2.175E-06	1600
119.0	1616	5.387E-06	2.694E-06	1600
120.0	1598	5.327E-06	2.664E-06	1600
121.0	1404	4.696E-06	2.348E-06	1600
122.0	703	2.480E-06	1.240E-06	1600
123.0	588	1.961E-06	9.806E-07	1600
124.0	1041	3.471E-06	1.736E-06	1600
125.0	784	2.615E-06	1.307E-06	1600
126.0	651	2.171E-06	1.086E-06	1600
127.0	362	1.210E-06	6.049E-07	1600
S 128.0	117	3.907E-07	1.954E-07	1600
129.0	529	1.766E-06	8.829E-07	1600
130.0	527	1.758E-06	8.791E-07	1600
131.0	570	1.901E-06	9.505E-07	1600
132.0	800	2.667E-06	1.334E-06	1600
133.0	728	2.027E-06	1.013E-06	1600
134.0	450	1.503E-06	7.514E-07	1600
135.0	721	2.404E-06	1.202E-06	1600
136.0	732	2.442E-06	1.221E-06	1600
137.0	795	2.652E-06	1.326E-06	1600
138.0	705	2.352E-06	1.176E-06	1600
139.0	1021	3.404E-06	1.702E-06	1600
140.0	714	2.382E-06	1.191E-06	1600
141.0	849	2.833E-06	1.416E-06	1600
142.0	967	3.223E-06	1.612E-06	1600
143.0	480	1.600E-06	8.002E-07	1600
144.0	518	1.728E-06	8.641E-07	1600
145.0	369	1.232E-06	6.161E-07	1600
146.0	489	1.630E-06	8.152E-07	1600
147.0	450	1.503E-06	7.514E-07	1600
148.0	426	1.420E-06	7.101E-07	1600
149.0	329	1.097E-06	5.485E-07	1600
150.0	376	1.255E-06	6.274E-07	1600
151.0	347	1.157E-06	5.786E-07	1600
152.0	320	1.067E-06	5.335E-07	1600
153.0	216	7.213E-07	3.607E-07	1600
154.0	356	1.187E-06	5.936E-07	1600

CROSSHAIR INTEGRATED= 6.895E-03 3.448E-03
SEC/50.M 1/M

TOWER DATA FOLLOW....

TEST FT3 MAY 16, 1963 0355 TO 0415 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC U= 0.5 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM. X10E+6	EU/O 1/50.M	DISTANCE METERS
98.0	0.2	162	5.410E-07	2.705E-07	1600
98.0	0.4	344	1.150E-06	5.745E-07	1600
98.0	0.8	455	1.510E-06	7.589E-07	1600
98.0	1.5	644	2.145E-06	1.074E-06	1600
98.0	3.1	444	1.480E-06	7.401E-07	1600
98.0	6.2	225	7.514E-07	3.757E-07	1600
98.0	9.3	439	1.465E-06	7.326E-07	1600
98.0	12.4	311	1.037E-06	5.185E-07	1600
98.0	15.5	570	1.901E-06	9.505E-07	1600
98.0	18.6	610	2.036E-06	1.018E-06	1600
98.0	21.7	522	1.743E-06	8.716E-07	1600
98.0	24.8	914	3.048E-06	1.524E-06	1600
98.0	31.0	592	1.975E-06	9.875E-07	1600
98.0	37.2	568	1.896E-06	9.482E-07	1600
98.0	43.4	397	1.324E-06	6.619E-07	1600
98.0	49.6	292	9.735E-07	4.868E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM. X10E+6	EU/O 1/50.M	DISTANCE METERS
106.0	0.2	5597	1.866E-05	9.328E-06	1600
106.0	0.4	7438	2.480E-05	1.240E-05	1600
106.0	0.8	7247	2.416E-05	1.208E-05	1600
106.0	1.5	6444	2.148E-05	1.074E-05	1600
106.0	3.1	4709	1.583E-05	7.916E-06	1600
106.0	6.2	3892	1.298E-05	6.488E-06	1600
Q 106.0	9.3	11	3.757E-06	1.878E-06	1600
106.0	12.4	349	1.165E-05	5.823E-07	1600
106.0	15.5	4537	1.513E-05	7.563E-06	1600
106.0	18.6	2157	7.191E-06	3.595E-06	1600
106.0	21.7	2914	9.715E-06	4.858E-06	1600
106.0	24.8	3396	1.132E-05	5.660E-06	1600
106.0	31.0	2039	6.798E-06	3.399E-06	1600
Q 106.0	37.2	1947	6.490E-06	3.245E-06	1600
106.0	43.4	936	3.120E-06	1.560E-06	1600
106.0	49.6	752	2.509E-06	1.254E-06	1600
106.0	55.8	170	5.684E-07	2.842E-07	1600
G 106.0	62.0	11	3.920E-08	1.960E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM. X10E+6	EU/O 1/50.M	DISTANCE METERS
114.0	0.2	2964	9.881E-06	4.940E-06	1600
114.0	0.4	1753	5.846E-06	2.923E-06	1600
114.0	0.8	2299	7.664E-06	3.832E-06	1600
114.0	1.5	3928	1.310E-05	6.548E-06	1600
114.0	3.1	1503	5.012E-06	2.506E-06	1600
114.0	6.2	793	2.645E-06	1.322E-06	1600
114.0	9.3	732	2.402E-06	1.221E-06	1600
114.0	12.4	590	1.969E-06	9.843E-07	1600
114.0	15.5	534	1.781E-06	8.904E-07	1600
114.0	18.6	926	3.088E-06	1.544E-06	1600
114.0	21.7	1302	4.343E-06	2.171E-06	1600
114.0	24.8	1062	3.542E-06	1.771E-06	1600
S 114.0	31.0	749	2.497E-06	1.249E-06	1600
114.0	37.2	759	2.533E-06	1.267E-06	1600
114.0	43.4	482	1.474E-06	7.371E-07	1600
114.0	49.6	315	1.052E-06	5.260E-07	1600
114.0	55.8	127	4.247E-07	2.123E-07	1600
114.0	62.0	62	2.091E-07	1.045E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10F+6	F/G SEC/CU.M	EL/D 1/30.M	DISTANCE METERS
122.0	0.2	737	2.457E-06	1.229E-06	1600
122.0	0.4	834	2.780E-06	1.390E-06	1600
122.0	0.8	747	2.660E-06	1.330E-06	1600
122.0	1.5	563	1.878E-06	9.392E-07	1600
122.0	3.1	696	2.322E-06	1.161E-06	1600
122.0	6.2	471	1.570E-06	7.852E-07	1600
122.0	9.3	38	1.277E-07	6.387E-08	1600
122.0	12.4	396	1.322E-06	6.612E-07	1600
122.0	15.5	13	4.508E-08	2.254E-08	1600
122.0	18.6	169	5.635E-07	2.818E-07	1600
122.0	21.7	290	9.693E-07	4.846E-07	1600
122.0	24.8	105	3.506E-07	1.753E-07	1600
122.0	31.0	70	2.361E-07	1.181E-07	1600
122.0	37.2	23	7.872E-08	3.936E-08	1600
122.0	62.0	1	6.534E-09	3.267E-09	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	EL/D 1/30.M	DISTANCE METERS
130.0	0.2	725	2.419E-06	1.210E-06	1600
130.0	0.4	581	1.939E-06	9.693E-07	1600
130.0	0.8	486	1.488E-06	7.439E-07	1600
130.0	1.5	595	1.984E-06	9.918E-07	1600
130.0	3.1	324	1.082E-06	5.410E-07	1600
130.0	6.2	65	2.179E-07	1.090E-07	1600
130.0	9.3	87	2.930E-07	1.465E-07	1600
130.0	12.4	42	1.428E-07	7.138E-08	1600
130.0	15.5	67	2.250E-07	1.127E-07	1600

TEST F13 MAY 16, 1963 0355 TO 0415 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200H ARC SAMPLER HT 1.5M U= 0.5 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10F+6	F/G SEC/CU.M	EL/D 1/30.M	DISTANCE METERS
71.0	42	1.427E-07	7.134E-08	3200
72.0	54	1.801E-07	9.005E-08	3200
73.0	41	1.393E-07	6.966E-08	3200
74.0	61	2.039E-07	1.019E-07	3200
75.0	83	2.786E-07	1.393E-07	3200
76.0	86	2.888E-07	1.444E-07	3200
77.0	92	3.092E-07	1.506E-07	3200
78.0	120	4.010E-07	2.005E-07	3200
79.0	181	6.049E-07	3.024E-07	3200
80.0	183	6.117E-07	3.058E-07	3200
81.0	218	7.272E-07	3.636E-07	3200
82.0	150	5.029E-07	2.515E-07	3200
83.0	242	8.087E-07	4.044E-07	3200
84.0	251	8.393E-07	4.197E-07	3200
85.0	242	8.087E-07	4.044E-07	3200
86.0	172	5.743E-07	2.871E-07	3200
87.0	200	6.694E-07	3.347E-07	3200
88.0	218	7.272E-07	3.636E-07	3200
89.0	241	8.053E-07	4.027E-07	3200
90.0	280	9.345E-07	4.672E-07	3200
91.0	313	1.047E-06	5.233E-07	3200
92.0	364	1.217E-06	6.083E-07	3200
93.0	435	1.451E-06	7.255E-07	3200
94.0	473	1.577E-06	7.883E-07	3200
95.0	535	1.784E-06	8.920E-07	3200
96.0	582	1.940E-06	9.701E-07	3200
97.0	655	2.185E-06	1.092E-06	3200
98.0	634	2.114E-06	1.057E-06	3200
99.0	833	2.780E-06	1.390E-06	3200
100.0	928	3.096E-06	1.548E-06	3200
101.0	1018	3.395E-06	1.697E-06	3200
102.0	986	3.299E-06	1.645E-06	3200
103.0	848	2.827E-06	1.414E-06	3200
104.0	1375	4.544E-06	2.292E-06	3200
105.0	1492	4.975E-06	2.487E-06	3200

7	106.0	11	3.738E-06	1.869E-08	3200
	107.0	1607	5.359E-06	2.679E-06	3200
	108.0	1430	4.767E-06	2.384E-06	3200
	109.0	1016	3.388E-06	1.694E-06	3200
T	109.0	1277	4.258E-06	2.129E-06	3200
	110.0	540	1.801E-06	9.005E-07	3200
	111.0	684	2.280E-06	1.140E-06	3200
	112.0	976	3.255E-06	1.628E-06	3200
	113.0	901	3.004E-06	1.502E-06	3200
	114.0	812	2.708E-06	1.354E-06	3200
	115.0	794	2.647E-06	1.321E-06	3200
	116.0	807	2.691E-06	1.346E-06	3200
	117.0	817	2.729E-06	1.363E-06	3200
	118.0	798	2.894E-06	1.447E-06	3200
	119.0	786	2.847E-06	1.420E-06	3200
	120.0	828	2.743E-06	1.371E-06	3200
	121.0	536	1.767E-06	8.835E-07	3200
	122.0	670	2.236E-06	1.118E-06	3200
	123.0	553	1.845E-06	9.226E-07	3200
	124.0	481	1.339E-06	6.694E-07	3200
	125.0	302	1.009E-06	5.046E-07	3200
	126.0	216	7.204E-07	3.602E-07	3200
	127.0	2	6.796E-09	3.396E-09	3200
	128.0	101	3.398E-07	1.699E-07	3200
	129.0	74	2.481E-07	1.240E-07	3200
	130.0	97	3.262E-07	1.631E-07	3200
	131.0	110	3.670E-07	1.835E-07	3200
	132.0	96	3.288E-07	1.644E-07	3200
	133.0	72	2.413E-07	1.206E-07	3200
	134.0	123	4.112E-07	2.056E-07	3200
	135.0	79	2.650E-07	1.325E-07	3200
	136.0	99	3.330E-07	1.665E-07	3200
	137.0	97	3.262E-07	1.631E-07	3200
	138.0	90	3.024E-07	1.512E-07	3200
	139.0	97	3.262E-07	1.631E-07	3200
	140.0	72	2.413E-07	1.206E-07	3200
	141.0	84	2.820E-07	1.410E-07	3200
	142.0	125	4.100E-07	2.090E-07	3200
	143.0	99	3.330E-07	1.665E-07	3200
	144.0	107	3.568E-07	1.784E-07	3200
	145.0	90	3.024E-07	1.512E-07	3200
	146.0	63	2.107E-07	1.053E-07	3200
	147.0	83	2.786E-07	1.393E-07	3200
	148.0	122	4.078E-07	2.039E-07	3200
	149.0	169	5.641E-07	2.820E-07	3200
	150.0	183	6.117E-07	3.058E-07	3200
	151.0	227	7.578E-07	3.789E-07	3200
	152.0	276	9.209E-07	4.604E-07	3200
	153.0	277	9.243E-07	4.621E-07	3200
	154.0	246	8.223E-07	4.112E-07	3200
	155.0	300	1.002E-06	5.012E-07	3200
	156.0	231	7.710E-07	3.857E-07	3200
	157.0	187	6.252E-07	3.126E-07	3200
	158.0	178	5.947E-07	2.973E-07	3200
	159.0	134	4.485E-07	2.243E-07	3200
	160.0	106	3.534E-07	1.767E-07	3200

CROSSWIND INTEGRATED= 6.671E-03 SEC/30.M 3.335E-03 1/M

TOWER DATA FOLLOW.....

TFST F13 MAY 16, 1963 0355 TO 0415 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M ARC U= 0.5 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.2	604	2.015E-06	1.008E-06	3200
98.0	0.4	716	2.389E-06	1.194E-06	3200
98.0	0.8	731	2.440E-06	1.220E-06	3200
98.0	1.5	437	1.458E-06	7.289E-07	3200
98.0	3.1	371	1.237E-06	6.184E-07	3200
98.0	6.2	311	1.040E-06	5.199E-07	3200
98.0	9.3	247	8.257E-07	4.129E-07	3200
98.0	12.4	193	5.131E-07	2.566E-07	3200
98.0	15.5	160	5.335E-07	2.667E-07	3200
98.0	18.6	155	5.199E-07	2.600E-07	3200
98.0	21.7	199	6.660E-07	3.330E-07	3200
98.0	24.8	264	8.801E-07	4.400E-07	3200
98.0	31.0	364	1.217E-06	6.083E-07	3200
98.0	37.2	503	1.779E-06	8.393E-07	3200
98.0	43.4	380	1.267E-06	6.337E-07	3200
98.0	49.6	294	9.806E-07	4.903E-07	3200
98.0	55.8	321	1.021E-06	5.356E-07	3200
98.0	62.0	279	9.320E-07	4.660E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.2	1316	4.387E-06	2.193E-06	3200
106.0	0.4	1305	4.353E-06	2.176E-06	3200
106.0	0.8	1421	4.737E-06	2.368E-06	3200
106.0	1.5	1360	4.536E-06	2.268E-06	3200
106.0	3.1	1647	5.491E-06	2.746E-06	3200
106.0	6.2	1467	4.893E-06	2.447E-06	3200
106.0	9.3	1404	4.683E-06	2.341E-06	3200
106.0	15.5	689	2.297E-06	1.149E-06	3200
106.0	18.6	483	1.611E-06	8.053E-07	3200
106.0	21.7	350	1.169E-06	5.845E-07	3200
106.0	24.8	241	8.053E-07	4.027E-07	3200
106.0	31.0	287	9.583E-07	4.791E-07	3200
106.0	37.2	150	5.025E-07	2.515E-07	3200
106.0	43.4	70	2.345E-07	1.172E-07	3200
106.0	49.6	208	6.958E-07	3.479E-07	3200
106.0	55.8	112	3.754E-07	1.877E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.2	509	1.699E-06	8.495E-07	3200
114.0	0.4	785	2.620E-06	1.310E-06	3200
114.0	0.8	573	1.913E-06	9.566E-07	3200
114.0	1.5	712	2.375E-06	1.188E-06	3200
114.0	3.1	527	1.757E-06	8.784E-07	3200
114.0	6.2	1060	3.534E-06	1.767E-06	3200
114.0	9.3	1086	3.622E-06	1.811E-06	3200
114.0	12.4	995	3.320E-06	1.660E-06	3200
114.0	15.5	470	1.570E-06	7.850E-07	3200
114.0	18.6	226	7.540E-07	3.772E-07	3200
114.0	21.7	212	7.068E-07	3.534E-07	3200
114.0	24.8	281	9.379E-07	4.689E-07	3200
114.0	31.0	337	1.125E-06	5.624E-07	3200
114.0	37.2	165	5.505E-07	2.752E-07	3200
114.0	43.4	228	7.612E-07	3.806E-07	3200
114.0	49.6	187	6.246E-07	3.123E-07	3200
114.0	55.8	278	9.288E-07	4.644E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
122.0	0.2	713	2.379E-06	1.189E-06	3200
122.0	0.4	358	1.196E-06	5.981E-07	3200
122.0	0.8	567	1.893E-06	9.464E-07	3200
122.0	1.5	452	1.509E-06	7.544E-07	3200
122.0	3.1	613	2.110E-06	1.055E-06	3200
122.0	6.2	665	2.219E-06	1.109E-06	3200
122.0	9.3	349	1.298E-06	6.490E-07	3200
122.0	12.4	205	6.864E-07	3.432E-07	3200
122.0	15.5	66	2.209E-07	1.104E-07	3200
122.0	18.6	27	9.175E-08	4.587E-08	3200
122.0	21.7	15	5.097E-08	2.549E-08	3200
122.0	24.8	12	4.078E-08	2.039E-08	3200
122.0	31.0	6	2.039E-08	1.019E-08	3200
122.0	37.2	9	3.058E-08	1.529E-08	3200
122.0	49.6	9	3.236E-08	1.618E-08	3200
122.0	55.8	32	1.068E-07	5.340E-08	3200
122.0	62.0	15	1.197E-07	5.987E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
130.0	0.2	73	2.447E-07	1.223E-07	3200
130.0	0.4	68	2.277E-07	1.138E-07	3200
130.0	0.8	63	2.107E-07	1.053E-07	3200
130.0	1.5	67	2.073E-07	1.036E-07	3200
130.0	3.1	34	1.155E-07	5.777E-08	3200
130.0	6.2	55	1.835E-07	9.175E-08	3200
130.0	9.3	53	1.767E-07	8.835E-08	3200
130.0	12.4	42	1.427E-07	7.136E-08	3200
130.0	15.5	13	4.417E-08	2.209E-08	3200

SERIES '63 EXPERIMENT: 4 (FT-4)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS.

TEST FT4 MAY 21, 1963 0350 TO 0420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
110.0	18	7.934E-08	3.808E-07	200
112.0	191	8.033E-07	3.856E-06	200
114.0	200	8.430E-07	4.046E-06	200
116.0	542	2.281E-06	1.095E-05	200
118.0	1727	7.260E-06	3.485E-05	200
120.0	6186	2.599E-05	1.248E-04	200
122.0	11433	4.804E-05	2.306E-04	200
124.0	20254	8.510E-05	4.085E-04	200
126.0	21717	9.125E-05	4.380E-04	200
128.0	30585	1.285E-04	6.168E-04	200
130.0	23525	9.885E-05	4.745E-04	200
132.0	18984	7.977E-05	3.829E-04	200
134.0	14716	6.144E-05	2.968E-04	200
136.0	9639	4.050E-05	1.944E-04	200
138.0	6967	2.928E-05	1.405E-04	200
140.0	4897	2.058E-05	9.878E-05	200
142.0	3604	1.514E-05	7.269E-05	200
144.0	1354	5.693E-06	2.732E-05	200
146.0	1036	4.354E-06	2.090E-05	200
148.0	686	2.886E-06	1.385E-05	200
150.0	236	9.917E-07	4.760E-06	200
152.0	252	1.061E-06	5.094E-06	200

CROSSWIND INTEGRATED= 5.244E-03 2.517E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW...

TEST FT4 MAY 21, 1963 0350 TO 0420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC U= 4.8 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS	
5	98.0	0.3	61	2.564E-07	1.231E-06	200
4	98.0	0.7	41	1.755E-07	8.422E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.3	70	2.964E-07	1.425E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.3	247	9.988E-07	4.794E-06	200
114.0	0.7	276	1.161E-06	5.572E-06	200
114.0	1.4	145	6.131E-07	2.943E-06	200
114.0	2.7	179	7.541E-07	3.620E-06	200
114.0	4.1	188	7.921E-07	3.802E-06	200
114.0	5.4	109	4.611E-07	2.214E-06	200
114.0	6.8	214	9.006E-07	4.323E-06	200
114.0	8.1	123	5.208E-07	2.500E-06	200
114.0	9.4	105	6.131E-07	2.943E-06	200
114.0	10.8	260	1.096E-06	5.260E-06	200
114.0	13.5	236	9.928E-07	4.766E-06	200
114.0	16.2	149	6.293E-07	3.021E-06	200
114.0	18.9	74	3.147E-07	1.510E-06	200
114.0	21.6	12	5.425E-08	2.604E-07	200
114.0	24.3	12	5.130E-08	2.462E-07	200
114.0	27.0	5	2.112E-08	1.014E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
122.0	0.3	10305	4.330E-05	2.078E-04	200
122.0	0.7	9077	3.814E-05	1.831E-04	200
122.0	1.4	5674	2.384E-05	1.145E-04	200
122.0	2.7	6528	2.743E-05	1.317E-04	200
122.0	4.1	2606	1.095E-05	5.258E-05	200
122.0	5.4	7698	3.235E-05	1.553E-04	200
122.0	6.8	8049	3.382E-05	1.623E-04	200
122.0	8.1	8280	3.479E-05	1.670E-04	200
122.0	9.4	10187	4.281E-05	2.055E-04	200
122.0	10.8	12948	5.440E-05	2.611E-04	200
122.0	13.5	8311	3.492E-05	1.676E-04	200
122.0	16.2	8807	3.701E-05	1.776E-04	200
122.0	18.9	5241	2.202E-05	1.057E-04	200
122.0	21.6	5293	2.224E-05	1.068E-04	200
122.0	24.3	1597	6.711E-06	3.221E-05	200
122.0	27.0	1526	6.412E-06	3.078E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
130.0	0.3	18848	7.928E-05	3.806E-04	200
130.0	0.7	30593	1.285E-04	6.170E-04	200
130.0	1.4	12718	5.344E-05	2.565E-04	200
130.0	2.7	12475	5.242E-05	2.516E-04	200
130.0	4.1	5983	2.514E-05	1.207E-04	200
130.0	5.4	10523	7.783E-05	3.736E-04	200
130.0	6.8	15712	6.627E-05	3.181E-04	200
130.0	8.1	18322	7.648E-05	3.645E-04	200
130.0	9.4	7800	3.277E-05	1.573E-04	200
130.0	10.8	18585	7.809E-05	3.748E-04	200
130.0	13.5	17851	7.500E-05	3.600E-04	200
130.0	16.2	15247	6.407E-05	3.075E-04	200
130.0	18.9	11001	4.622E-05	2.219E-04	200
130.0	21.6	7452	3.131E-05	1.503E-04	200
130.0	24.3	3183	1.338E-05	6.421E-05	200
130.0	27.0	1446	6.077E-06	2.917E-05	200

TEST FT4 MAY 21, 1963 0350 TO 0420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
800M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/50,M	DISTANCE METERS
120.0	162	6.811E-07	3.269E-06	800
122.0	557	2.341E-06	1.124E-05	800
124.0	1502	6.312E-06	3.030E-05	800
126.0	4000	1.641E-05	8.068E-05	800
128.0	6726	2.826E-05	1.357E-04	800
130.0	5892	2.476E-05	1.188E-04	800
132.0	5892	2.476E-05	1.188E-04	800
134.0	3835	1.612E-05	7.736E-05	800
136.0	2842	1.194E-05	5.733E-05	800
138.0	1525	6.408E-06	3.076E-05	800
140.0	436	1.832E-06	8.795E-06	800
142.0	335	1.410E-06	6.769E-06	800
144.0	335	1.410E-06	6.769E-06	800
146.0	296	1.247E-06	5.986E-06	800
148.0	187	7.867E-07	3.776E-06	800
150.0	85	1.919E-07	9.210E-07	800
160.0	897	3.770E-06	1.810E-05	800

CROSSWIND INTEGRATED= 4.343E-03 2.104E-02
SEC/50,M 1/M

TOWER DATA FOLLOWS....

TEST FT4 MAY 21, 1963 0350 TO 0420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
800M ARC U= 4.8 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/50,M	DISTANCE METERS
122.0	0.3	241	1.097E-06	5.264E-06	800
122.0	0.5	279	1.175E-06	5.640E-06	800
122.0	1.0	262	1.102E-06	5.290E-06	800
122.0	2.1	159	6.717E-07	3.224E-06	800
122.0	4.2	257	1.041E-06	5.189E-06	800
122.0	6.3	269	1.134E-06	5.441E-06	800
122.0	8.4	234	9.866E-07	4.736E-06	800
122.0	10.5	314	1.422E-06	6.827E-06	800
122.0	12.6	167	7.032E-07	3.376E-06	800
122.0	14.7	252	1.060E-06	5.088E-06	800
122.0	16.8	294	1.239E-06	5.945E-06	800
122.0	21.0	246	1.202E-06	5.769E-06	800
122.0	25.2	123	5.196E-07	2.494E-06	800
122.0	29.4	99	4.174E-07	2.003E-06	800
122.0	33.6	61	2.598E-07	1.247E-06	800
122.0	37.8	50	2.102E-07	1.009E-06	800
122.0	42.0	54	2.306E-07	1.107E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/50,M	DISTANCE METERS
130.0	0.3	5244	2.225E-05	1.064E-04	800
130.0	0.5	5426	2.448E-05	1.175E-04	800
130.0	1.0	2079	8.738E-06	4.194E-05	800
130.0	2.1	3094	1.302E-05	6.250E-05	800
130.0	4.2	6325	2.658E-05	1.276E-04	800
130.0	6.3	3964	1.666E-05	7.995E-05	800
130.0	8.4	3494	1.470E-05	7.056E-05	800
130.0	10.5	2117	8.895E-06	4.270E-05	800
130.0	12.6	2443	1.212E-05	5.816E-05	800
130.0	14.7	2422	1.166E-05	5.693E-05	800
130.0	16.8	4211	1.778E-05	8.534E-05	800
130.0	21.0	2446	1.196E-05	5.741E-05	800
130.0	25.2	733	3.842E-06	1.840E-05	800
130.0	29.4	740	3.241E-06	1.575E-05	800
130.0	33.6	734	3.103E-06	1.449E-05	800
130.0	37.8	414	1.768E-06	8.448E-06	800
130.0	42.0	141	6.772E-07	3.250E-06	800

TEST FT4 MAY 21, 1963 0350 TO 0420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/50,M	DISTANCE METERS
113.0	36	1.548E-07	7.430E-07	1600
115.0	17	7.371E-08	3.538E-07	1600
122.0	31	1.327E-07	6.369E-07	1600
123.0	77	3.243E-07	1.557E-06	1600
124.0	124	5.234E-07	2.512E-06	1600
125.0	387	1.629E-06	7.820E-06	1600
126.0	810	3.406E-06	1.635E-05	1600
127.0	917	3.855E-06	1.851E-05	1600
128.0	1415	5.949E-06	2.855E-05	1600
129.0	3329	1.399E-05	6.716E-05	1600
130.0	2719	1.143E-05	5.484E-05	1600
131.0	3007	1.263E-05	6.065E-05	1600
132.0	2659	1.118E-05	5.364E-05	1600
133.0	2161	9.082E-06	4.359E-05	1600
134.0	1359	5.713E-06	2.742E-05	1600
135.0	1143	4.806E-06	2.307E-05	1600
136.0	714	3.000E-06	1.440E-05	1600
137.0	392	1.651E-06	7.926E-06	1600
138.0	296	1.246E-06	5.980E-06	1600
139.0	103	4.349E-07	2.088E-06	1600
140.0	21	8.846E-08	4.246E-07	1600
141.0	42	1.769E-07	8.492E-07	1600
142.0	22	9.983E-08	4.600E-07	1600
143.0	22	9.583E-08	4.600E-07	1600

CROSSWIND INTEGRATED= 2.582E-03 1.240E-02
SEC/50,M 1/M

TOWER DATA FOLLOWS....

TEST FT4 MAY 21, 1963 0350 TO 0420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC U= 4.8 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/50,M	DISTANCE METERS
122.0	1.5	24	1.015E-07	4.872E-07	1600
122.0	3.1	8	3.530E-08	1.695E-07	1600
122.0	6.2	24	1.191E-07	5.719E-07	1600
122.0	9.3	7	3.046E-08	1.483E-07	1600
122.0	12.4	22	9.267E-08	4.448E-07	1600
122.0	15.5	12	5.295E-08	2.542E-07	1600
122.0	18.6	9	3.972E-08	1.906E-07	1600
122.0	21.7	7	3.046E-08	1.483E-07	1600
122.0	24.8	4	1.856E-08	8.907E-08	1600
122.0	31.0	6	2.651E-08	1.272E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/50,M	DISTANCE METERS
130.0	0.2	2548	1.071E-05	5.139E-05	1600
130.0	0.4	2949	1.239E-05	5.949E-05	1600
130.0	0.8	3256	1.368E-05	6.568E-05	1600
130.0	1.5	40	1.721E-07	8.261E-07	1600
130.0	3.1	1639	6.848E-06	3.306E-05	1600
130.0	6.2	1515	6.368E-06	3.057E-05	1600
130.0	9.3	3	1.324E-08	6.354E-08	1600
130.0	12.4	141	5.957E-07	2.860E-06	1600
130.0	15.5	895	3.764E-06	1.807E-05	1600
130.0	18.6	1419	7.643E-06	3.669E-05	1600
130.0	21.7	28	1.191E-07	5.719E-07	1600
130.0	24.8	874	3.674E-06	1.764E-05	1600
130.0	31.0	511	2.147E-06	1.031E-05	1600
130.0	37.2	8	3.446E-08	1.654E-07	1600
130.0	43.4	241	1.013E-06	4.861E-06	1600
130.0	49.4	147	6.203E-07	2.977E-06	1600
130.0	55.8	49	3.764E-07	1.807E-06	1600
130.0	62.0	14	1.431E-07	6.871E-07	1600

TEST FT4 MAY 21, 1963 0350 TO 0420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	EU/D 1/SEC ²	DISTANCE METERS
71.0	18	7.788E-08	3.738E-07	3200	
109.0	27	1.168E-07	5.607E-07	3200	
110.0	63	2.687E-07	1.290E-06	3200	
111.0	18	7.788E-08	3.738E-07	3200	
114.0	11	4.673E-08	2.243E-07	3200	
117.0	12	5.451E-08	2.617E-07	3200	
123.0	9	3.894E-08	1.869E-07	3200	
124.0	17	7.398E-08	3.551E-07	3200	
125.0	33	1.402E-07	6.729E-07	3200	
126.0	159	6.697E-07	3.215E-06	3200	
127.0	437	1.838E-06	8.822E-06	3200	
128.0	265	1.114E-06	5.346E-06	3200	
129.0	1139	4.789E-06	2.299E-05	3200	
130.0	1072	4.505E-06	2.163E-05	3200	
131.0	930	3.909E-06	1.877E-05	3200	
132.0	1006	4.229E-06	2.030E-05	3200	
133.0	531	2.235E-06	1.073E-05	3200	
134.0	344	1.449E-06	6.953E-06	3200	
135.0	339	1.425E-06	6.841E-06	3200	
136.0	256	1.079E-06	5.177E-06	3200	
137.0	237	9.968E-07	4.785E-06	3200	
138.0	163	6.853E-07	3.290E-06	3200	
139.0	48	2.025E-07	9.719E-07	3200	
140.0	31	1.324E-07	6.355E-07	3200	
155.0	48	2.025E-07	9.719E-07	3200	

CROSSWIND INTEGRATED= 2.134E-03 1.024E-02
SEC/SEC² 1/M

TOWER DATA FOLLOW....

TEST FT4 MAY 21, 1963 0350 TO 0420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M ARC U= 4.8 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	EU/D 1/SEC ²	DISTANCE METERS
111.0	3.1	41	1.748E-07	8.389E-07	3200
114.0	6.2	14	6.117E-08	2.936E-07	3200
114.0	9.3	47	2.010E-07	9.647E-07	3200
114.0	12.4	11	1.311E-07	6.292E-07	3200
114.0	15.5	9	2.330E-08	1.119E-07	3200
114.0	31.0	18	1.600E-07	7.681E-07	3200
114.0	37.2	8	3.579E-08	1.718E-07	3200
114.0	43.4	8	3.579E-08	1.718E-07	3200
114.0	49.6	5	2.105E-08	1.011E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	EU/D 1/SEC ²	DISTANCE METERS
122.0	0.2	108	4.540E-07	2.179E-06	3200
122.0	0.4	42	1.799E-07	8.635E-07	3200
122.0	0.8	15	6.425E-08	3.084E-07	3200
122.0	3.1	21	9.030E-08	4.334E-07	3200
122.0	6.2	15	6.695E-08	3.216E-07	3200
122.0	24.8	10	4.421E-08	2.122E-07	3200
122.0	37.2	12	5.053E-08	2.425E-07	3200
122.0	55.8	8	3.366E-08	1.617E-07	3200
122.0	62.0	5	2.316E-08	1.112E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	EU/D 1/SEC ²	DISTANCE METERS
130.0	0.2	988	4.155E-06	1.994E-05	3200
130.0	0.4	838	3.525E-06	1.692E-05	3200
130.0	0.8	969	4.073E-06	1.955E-05	3200
130.0	1.5	845	3.638E-06	1.746E-05	3200
130.0	3.1	523	3.880E-06	1.862E-05	3200
130.0	6.2	983	4.133E-06	1.984E-05	3200
130.0	9.3	1161	4.882E-06	2.303E-05	3200
130.0	12.4	1292	5.425E-06	2.606E-05	3200
130.0	15.5	979	4.116E-06	1.976E-05	3200
130.0	18.6	1005	4.224E-06	2.027E-05	3200
130.0	21.7	1238	5.202E-06	2.497E-05	3200
130.0	24.8	720	3.026E-06	1.452E-05	3200
130.0	31.0	604	2.539E-06	1.219E-05	3200
130.0	37.2	358	1.508E-06	7.236E-06	3200
130.0	43.4	213	8.990E-07	4.315E-06	3200
130.0	49.6	92	3.874E-07	1.860E-06	3200
130.0	55.8	33	1.390E-07	6.670E-07	3200
130.0	62.0	21	8.843E-08	4.245E-07	3200

SERIES '63 EXPERIMENT: 5 (FT-5)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS.

TEST FTS MAY 22, 1963 0345 TO 0415 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/30,M	DISTANCE METERS
114.0	59	2.821E-07	1.185E-06		200
116.0	703	3.321E-06	1.395E-05		200
118.0	2416	1.140E-05	4.787E-05		200
120.0	6371	3.085E-05	1.262E-04		200
122.0	11236	5.300E-05	2.226E-04		200
124.0	18953	8.940E-05	3.755E-04		200
126.0	26990	1.273E-04	5.347E-04		200
128.0	36024	1.737E-04	7.295E-04		200
130.0	48038	2.304E-04	9.676E-04		200
132.0	37762	1.781E-04	7.081E-04		200
134.0	28295	1.335E-04	5.606E-04		200
136.0	15868	7.485E-05	3.144E-04		200
138.0	4623	2.181E-05	9.160E-05		200
140.0	1812	8.552E-06	3.592E-05		200
142.0	203	9.616E-07	4.039E-06		200

CROSSWIND INTEGRATED= 7.935E-03 3.333E-02
SEC/30,M 1/M

TOWER DATA FOLLOW....

TEST FTS MAY 22, 1963 0345 TO 0415 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC U= 4.2 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/30,M	DISTANCE METERS
98.0	0.3	54	2.576E-07	1.082E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/30,M	DISTANCE METERS
114.0	0.3	70	3.334E-07	1.400E-06	200
114.0	0.7	67	3.182E-07	1.336E-06	200
114.0	1.4	9	4.263E-08	1.791E-07	200
114.0	2.7	16	7.918E-08	3.325E-07	200
114.0	4.1	33	1.584E-07	6.651E-07	200
114.0	5.4	27	1.279E-07	5.372E-07	200
114.0	6.8	49	2.314E-07	9.721E-07	200
114.0	8.1	123	5.847E-07	2.456E-06	200
114.0	9.4	68	3.228E-07	1.356E-06	200
114.0	10.8	45	2.132E-07	8.953E-07	200
114.0	13.5	69	3.289E-07	1.381E-06	200
114.0	16.2	3	1.827E-08	7.674E-08	200
114.0	18.9	19	9.136E-08	3.837E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/30,M	DISTANCE METERS
122.0	0.3	5464	2.577E-05	1.083E-04	200
122.0	0.7	12351	5.826E-05	2.487E-04	200
122.0	1.4	3961	1.869E-05	7.848E-05	200
122.0	2.7	4570	2.156E-05	9.056E-05	200
122.0	4.1	5549	2.618E-05	1.099E-04	200
122.0	5.4	6370	3.005E-05	1.262E-04	200
122.0	6.8	6972	3.289E-05	1.381E-04	200
122.0	8.1	7934	3.743E-05	1.572E-04	200
122.0	9.4	7034	3.318E-05	1.394E-04	200
122.0	10.8	2861	1.350E-05	5.669E-05	200
122.0	13.5	6865	3.238E-05	1.360E-04	200
122.0	16.2	7113	3.355E-05	1.409E-04	200
122.0	18.9	6010	2.835E-05	1.191E-04	200
122.0	21.6	3011	1.420E-05	5.965E-05	200
122.0	24.3	963	4.543E-06	1.988E-05	200
122.0	27.0	355	1.677E-06	7.043E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/30,M	DISTANCE METERS
130.0	0.3	39838	1.879E-04	7.893E-04	200
130.0	0.7	49485	2.334E-04	9.804E-04	200
130.0	1.4	11086	5.229E-05	2.196E-04	200
130.0	2.7	23294	1.099E-04	4.615E-04	200
130.0	4.1	16460	7.764E-05	3.261E-04	200
130.0	5.4	30807	1.453E-04	6.103E-04	200
130.0	6.8	27728	1.308E-04	5.493E-04	200
130.0	8.1	34139	1.610E-04	6.764E-04	200
130.0	9.4	34206	1.614E-04	6.777E-04	200
130.0	10.8	29395	1.387E-04	5.824E-04	200
130.0	13.5	29487	1.391E-04	5.842E-04	200
130.0	16.2	18978	8.952E-05	3.760E-04	200
130.0	18.9	13989	6.599E-05	2.771E-04	200
130.0	21.6	8827	3.975E-05	1.670E-04	200
130.0	24.3	2300	1.085E-05	4.557E-05	200
130.0	27.0	1090	5.146E-06	2.161E-05	200

TEST FTS MAY 22, 1963 0345 TO 0415 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
800M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
120.0	223	1.054E-06	4.428E-06	800
122.0	1162	5.482E-06	2.302E-05	800
124.0	3988	1.841E-05	7.902E-05	800
126.0	7598	3.584E-05	1.505E-04	800
128.0	11387	5.371E-05	2.256E-04	800
130.0	11610	5.477E-05	2.300E-04	800
132.0	13343	6.294E-05	2.644E-04	800
134.0	5426	2.560E-05	1.075E-04	800
136.0	1756	8.245E-06	3.480E-05	800
138.0	141	6.697E-07	2.813E-06	800

CROSSWIND INTEGRATED* 7.461E-03 SEC/SQ.M 3.134E-02 1/M

TOWER DATA FOLLOW....

TEST FTS MAY 22, 1963 0345 TO 0415 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
800M ARC U= 4.2 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
122.0	0.3	1634	7.710E-06	3.238E-05	800
122.0	0.5	1283	6.053E-06	2.542E-05	800
122.0	1.0	690	3.258E-06	1.368E-05	800
122.0	2.1	796	3.759E-06	1.579E-05	800
122.0	4.2	835	3.941E-06	1.655E-05	800
122.0	6.3	226	1.066E-06	4.479E-06	800
122.0	8.4	623	2.940E-06	1.235E-05	800
122.0	10.5	1151	5.432E-06	2.281E-05	800
122.0	12.6	813	3.835E-06	1.611E-05	800
122.0	14.7	573	2.704E-06	1.136E-05	800
122.0	16.8	808	3.812E-06	1.601E-05	800
122.0	21.0	538	2.539E-06	1.066E-05	800
122.0	25.2	213	1.009E-06	4.239E-06	800
122.0	29.4	93	4.424E-07	1.858E-06	800
122.0	33.6	6	2.949E-08	1.239E-07	800
122.0	37.8	2	1.311E-08	5.505E-08	800
122.0	42.0	21	1.016E-07	4.266E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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130.0	0.3	11540	5.444E-05	2.286E-04	800
130.0	0.5	10431	4.920E-05	2.067E-04	800
130.0	1.0	5039	2.377E-05	9.985E-05	800
130.0	2.1	6401	3.019E-05	1.268E-04	800
130.0	4.2	7469	3.533E-05	1.484E-04	800
130.0	6.3	6481	3.057E-05	1.284E-04	800
130.0	8.4	5384	2.540E-05	1.067E-04	800
130.0	10.5	6747	3.183E-05	1.337E-04	800
130.0	12.6	7476	3.715E-05	1.560E-04	800
130.0	14.7	5944	2.823E-05	1.186E-04	800
130.0	16.8	4700	2.217E-05	9.311E-05	800
130.0	21.0	4404	2.077E-05	8.725E-05	800
130.0	25.2	1880	8.870E-06	3.726E-05	800
130.0	29.4	623	2.939E-06	1.235E-05	800
130.0	33.6	192	9.077E-07	3.812E-06	800
130.0	37.8	29	1.409E-07	5.918E-07	800
130.0	42.0	6	3.277E-08	1.376E-07	800

TEST FTS MAY 22, 1963 0345 TO 0415 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
121.0	33	1.572E-07	6.602E-07	1600
122.0	72	3.421E-07	1.437E-06	1600
123.0	103	4.900E-07	2.058E-06	1600
124.0	480	2.265E-06	9.514E-06	1600
125.0	1509	7.119E-06	2.990E-05	1600
126.0	2046	9.653E-06	4.054E-05	1600
127.0	3730	1.759E-05	7.390E-05	1600
128.0	3047	1.438E-05	6.038E-05	1600
129.0	5008	2.362E-05	9.922E-05	1600
130.0	4688	2.212E-05	9.289E-05	1600
131.0	5159	2.434E-05	1.022E-04	1600
132.0	4674	2.205E-05	9.262E-05	1600
133.0	3087	1.456E-05	6.116E-05	1600
134.0	2238	1.056E-05	4.435E-05	1600
135.0	423	1.947E-06	8.388E-06	1600
136.0	270	1.276E-06	5.359E-06	1600
137.0	35	1.664E-07	6.990E-07	1600

CROSSWIND INTEGRATED* 4.822E-03 SEC/SQ.M 2.025E-02 1/M

TOWER DATA FOLLOW....

TEST FTS MAY 22, 1963 0345 TO 0415 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC U= 4.2 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
122.0	0.2	47	2.224E-07	9.357E-07	1600
122.0	0.4	25	1.215E-07	5.104E-07	1600
122.0	0.8	23	1.114E-07	4.678E-07	1600
122.0	1.5	45	2.130E-07	8.947E-07	1600
122.0	3.1	40	1.932E-07	8.115E-07	1600
122.0	6.2	34	1.635E-07	6.866E-07	1600
122.0	9.3	25	1.149E-07	4.994E-07	1600
122.0	12.4	19	9.413E-08	3.953E-07	1600
122.0	15.5	29	1.387E-07	5.826E-07	1600
122.0	18.6	34	1.635E-07	6.866E-07	1600
122.0	21.7	15	7.431E-08	3.121E-07	1600
122.0	24.8	10	4.762E-08	2.000E-07	1600
122.0	31.0	6	2.976E-08	1.250E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
130.0	0.2	3705	1.748E-05	7.341E-05	1600
130.0	0.4	4403	2.077E-05	8.723E-05	1600
130.0	0.8	3424	1.615E-05	6.784E-05	1600
130.0	1.5	1836	8.665E-06	3.639E-05	1600
130.0	3.1	2547	1.202E-05	5.048E-05	1600
130.0	6.2	2671	1.260E-05	5.293E-05	1600
130.0	9.3	2422	1.143E-05	4.800E-05	1600
130.0	12.4	1219	5.752E-06	2.416E-05	1600
130.0	15.5	2857	1.348E-05	5.662E-05	1600
130.0	18.6	1649	7.783E-06	3.269E-05	1600
130.0	21.7	1244	5.871E-06	2.466E-05	1600
130.0	24.8	859	4.056E-06	1.709E-05	1600
130.0	31.0	172	8.124E-07	3.412E-06	1600
130.0	37.2	30	1.428E-07	6.000E-07	1600

TEST FTS MAY 22, 1963 0345 TO 0415 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/30.M	DISTANCE METERS
123.0	35	1.694E-07	7.117E-07	3200	
124.0	39	1.878E-07	7.886E-07	3200	
125.0	38	1.832E-07	7.694E-07	3200	
126.0	127	5.999E-07	2.520E-06	3200	
127.0	217	1.026E-06	4.308E-06	3200	
129.0	1088	5.134E-06	2.156E-05	3200	
130.0	2006	9.466E-06	3.976E-05	3200	
131.0	1588	7.492E-06	3.147E-05	3200	
132.0	1433	6.764E-06	2.841E-05	3200	
133.0	1418	6.691E-06	2.810E-05	3200	
134.0	1283	6.054E-06	2.543E-05	3200	
135.0	931	4.392E-06	1.845E-05	3200	
136.0	348	1.644E-06	6.905E-06	3200	
137.0	33	1.683E-07	6.732E-07	3200	

CROSSWIND INTEGRATED= 2.962E-03 1.244E-02
SEC/30.M 1/M

POWER DATA FOLLOW....

TEST FTS MAY 22, 1963 0345 TO 0415 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M ARC U= 4.2 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/30.M	DISTANCE METERS
114.0	3.1	1053	4.970E-06	2.088E-05	3200
114.0	6.2	45	2.126E-07	8.927E-07	3200
114.0	9.3	122	5.788E-07	2.431E-06	3200
114.0	12.4	90	4.284E-07	1.799E-06	3200
114.0	15.5	19	9.156E-08	3.846E-07	3200
114.0	18.6	26	1.243E-07	5.219E-07	3200
114.0	21.7	29	1.406E-07	5.906E-07	3200
114.0	24.8	5	2.600E-08	1.092E-07	3200
114.0	31.0	12	5.909E-08	2.482E-07	3200
114.0	37.2	7	3.309E-08	1.390E-07	3200
114.0	55.8	33	1.584E-07	6.651E-07	3200
114.0	62.0	10	4.727E-08	1.985E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/30.M	DISTANCE METERS
122.0	0.2	12	5.774E-08	2.424E-07	3200
122.0	0.4	16	7.694E-08	3.231E-07	3200
122.0	0.8	36	1.731E-07	7.271E-07	3200
122.0	1.5	6	2.943E-08	1.238E-07	3200
122.0	6.2	17	8.175E-08	3.434E-07	3200
122.0	9.3	20	9.810E-08	4.120E-07	3200
122.0	12.4	5	2.616E-08	1.099E-07	3200
122.0	15.5	15	7.521E-08	3.159E-07	3200
122.0	18.6	9	4.251E-08	1.785E-07	3200
122.0	21.7	17	8.175E-08	3.434E-07	3200
122.0	24.8	15	7.091E-08	2.978E-07	3200
122.0	37.2	12	5.673E-08	2.383E-07	3200
122.0	43.4	4	2.127E-08	8.935E-08	3200
122.0	49.6	4	1.891E-08	7.942E-08	3200
122.0	55.8	20	9.455E-08	3.971E-07	3200
122.0	62.0	5	2.364E-08	9.927E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/30.M	DISTANCE METERS
130.0	0.2	1511	7.131E-06	2.995E-05	3200
130.0	0.4	1840	8.679E-06	3.645E-05	3200
130.0	0.8	1749	8.487E-06	3.565E-05	3200
130.0	1.5	1536	7.250E-06	3.045E-05	3200
130.0	3.1	1292	6.099E-06	2.561E-05	3200
130.0	6.2	1706	8.051E-06	3.381E-05	3200
130.0	9.3	1264	5.964E-06	2.505E-05	3200
130.0	12.4	1792	8.456E-06	3.552E-05	3200
130.0	15.5	1817	8.574E-06	3.601E-05	3200
130.0	18.6	1340	6.321E-06	2.655E-05	3200
130.0	21.7	971	4.581E-06	1.924E-05	3200
130.0	24.8	829	3.912E-06	1.643E-05	3200
130.0	31.0	271	1.281E-06	5.381E-06	3200
130.0	37.2	46	2.198E-07	9.233E-07	3200
130.0	43.4	7	3.309E-08	1.390E-07	3200

SERIES '63 EXPERIMENT: 6 (FT-6)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS. A LARGE PORTION
OF THE PLUME PASSED TO THE NORTH OF THE GRID.

TEST FT6 JUNE 6, 1963 0421 TO 0444 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC SAMPLER HT 1.5M U= 2.4 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
68.0	250	1.139E-06	2.733E-06	200
70.0	321	1.460E-06	3.504E-06	200
72.0	401	1.825E-06	4.380E-06	200
74.0	1686	7.666E-06	1.840E-05	200
76.0	3662	1.665E-05	3.995E-05	200
78.0	5785	2.630E-05	6.311E-05	200
80.0	4959	2.254E-05	5.411E-05	200
82.0	3620	1.606E-05	3.949E-05	200
84.0	1066	4.848E-06	1.163E-05	200
86.0	186	8.469E-07	2.033E-06	200
88.0	443	2.015E-06	4.836E-06	200
90.0	221	1.007E-06	2.418E-06	200
92.0	231	1.051E-06	2.523E-06	200
94.0	253	1.154E-06	2.768E-06	200
96.0	941	4.278E-06	1.027E-05	200
98.0	854	3.884E-06	9.321E-06	200
100.0	2807	1.276E-05	3.063E-05	200
102.0	1130	5.140E-06	1.234E-05	200

CROSSWIND INTEGRATED= 9.147E-04 2.195E-03
SEC/SQ.M 1/M

TEST FT6 JUNE 6, 1963 0421 TO 0444 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC SAMPLER HT 1.5M U= 2.4 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
70.0	3905	1.775E-05	4.261E-05	800
72.0	6323	2.574E-05	6.898E-05	800
74.0	5879	2.672E-05	6.413E-05	800
76.0	4592	2.088E-05	5.010E-05	800
78.0	3032	1.379E-05	3.308E-05	800
80.0	1236	5.621E-06	1.349E-05	800
82.0	860	3.912E-06	9.390E-06	800
84.0	1056	4.802E-06	1.153E-05	800
86.0	1637	7.443E-06	1.786E-05	800
88.0	1761	9.008E-06	1.922E-05	800
90.0	2339	1.064E-05	2.553E-05	800
92.0	2097	9.534E-06	2.288E-05	800
94.0	1289	5.862E-06	1.407E-05	800
96.0	1401	6.370E-06	1.529E-05	800
98.0	503	2.288E-06	5.491E-06	800
100.0	15	7.062E-08	1.695E-07	800
102.0	0	0.000E+00	0.000E+00	800
104.0	27	1.271E-07	3.051E-07	800

CROSSWIND INTEGRATED= 4.819E-03 1.156E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TOWER DATA FOLLOW....

TEST FT6 JUNE 6, 1963 0421 TO 0444 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC U= 2.4 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.3	1285	5.843E-06	1.402E-05	200
98.0	0.7	861	3.916E-06	9.398E-06	200
98.0	1.4	1128	5.128E-06	1.231E-05	200
98.0	2.7	1107	5.032E-06	1.208E-05	200
98.0	4.1	2874	1.307E-05	3.136E-05	200
98.0	5.4	7236	3.289E-05	7.895E-05	200
98.0	6.8	11759	5.345E-05	1.283E-04	200
98.0	8.1	18210	8.277E-05	1.987E-04	200
98.0	9.4	28520	1.296E-04	3.111E-04	200
98.0	10.8	37482	1.704E-04	4.089E-04	200
98.0	13.5	51658	2.344E-04	5.635E-04	200
98.0	16.2	46826	2.128E-04	5.108E-04	200
98.0	18.9	27717	1.260E-04	3.023E-04	200
98.0	21.6	15278	6.945E-05	1.667E-04	200
98.0	24.3	2749	1.250E-05	3.000E-05	200
98.0	27.0	588	2.673E-06	6.416E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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106.0	5.4	37	1.717E-07	4.120E-07	200
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TEST FT6 JUNE 6, 1963 0421 TO 0444 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC U= 2.4 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.3	231	1.051E-06	2.521E-06	800
98.0	0.5	74	3.403E-07	8.168E-07	800
98.0	1.0	196	8.925E-07	2.142E-06	800
98.0	2.1	474	2.159E-06	5.181E-06	800
98.0	4.2	796	3.622E-06	8.693E-06	800
98.0	6.3	1416	7.348E-06	1.763E-05	800
98.0	8.4	3566	1.621E-05	3.891E-05	800
98.0	10.5	4952	2.251E-05	5.402E-05	800
98.0	12.6	5395	2.452E-05	5.886E-05	800
98.0	14.7	6513	2.961E-05	7.106E-05	800
98.0	16.8	7055	3.207E-05	7.696E-05	800
98.0	21.0	5657	2.572E-05	6.172E-05	800
98.0	25.2	1541	7.007E-06	1.682E-05	800
98.0	29.4	299	1.362E-06	3.269E-06	800
98.0	33.6	19	8.882E-08	2.132E-07	800
98.0	37.8	26	1.184E-07	2.842E-07	800

TFST FT6 JUNE 6, 1963 0421 TO 0444 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
 1600M ARC SAMPLER HT 1.5M U= 2.4 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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70.0	38	1.756E-07	4.216E-07	1600
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TFST FT6 JUNE 6, 1963 0421 TO 0444 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
 3200M ARC SAMPLER HT 1.5M U= 2.4 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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71.0	47	2.178E-07	5.227E-07	3200
72.0	13	6.024E-08	1.446E-07	3200
73.0	19	8.804E-08	2.113E-07	3200
74.0	15	6.951E-08	1.668E-07	3200

CROSSWIND INTEGRATED= 2.433E-05 5.838E-05
 SEC/SQ.M 1/M

SERIES '63 EXPERIMENT: 7 (FT-7)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS.

TEST F17 JUNE 13, 1963 0377 TO 0420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM X10E+6	EU/Q 1/SQ.M	DISTANCE METERS
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92.0	40	8.494E-08	3.143E-07	200
94.0	51	1.076E-07	3.981E-07	200
96.0	785	1.637E-06	6.055E-06	200
98.0	1413	2.945E-06	1.090E-05	200
100.0	5107	1.064E-05	3.937E-05	200
102.0	6218	1.296E-05	4.794E-05	200
104.0	7382	1.538E-05	5.691E-05	200
106.0	5713	1.190E-05	4.404E-05	200
108.0	13209	2.752E-05	1.018E-04	200
110.0	36911	7.690E-05	2.845E-04	200
112.0	54688	1.139E-04	4.216E-04	200
114.0	72978	1.520E-04	5.625E-04	200
116.0	140354	2.924E-04	1.082E-03	200
118.0	192280	4.006E-04	1.482E-03	200
120.0	140259	2.922E-04	1.081E-03	200
122.0	107525	2.240E-04	8.288E-04	200
124.0	64451	1.343E-04	4.968E-04	200
126.0	33310	6.940E-05	2.568E-04	200
128.0	8347	1.739E-05	6.434E-05	200
130.0	1274	2.656E-06	9.826E-06	200
132.0	92	1.925E-07	7.124E-07	200

CROSSWIND INTEGRATED= 1.298E+02 4.802E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST F17 JUNE 13, 1963 0377 TO 0420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC U= 3.7 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM X10E+6	EU/Q 1/SQ.M	DISTANCE METERS
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98.0	0.3	1602	3.339E-06	1.236E-05	200
98.0	0.7	1159	2.416E-06	8.939E-06	200
98.0	1.4	766	1.597E-06	5.908E-06	200
98.0	2.7	703	1.466E-06	5.423E-06	200
98.0	4.1	1038	2.164E-06	8.007E-06	200
98.0	5.4	1625	3.386E-06	1.253E-05	200
98.0	6.8	1675	3.492E-06	1.292E-05	200
98.0	8.1	1777	3.702E-06	1.370E-05	200
98.0	9.4	2964	6.176E-06	2.285E-05	200
98.0	10.8	3638	7.580E-06	2.804E-05	200
98.0	13.5	3386	7.056E-06	2.611E-05	200
98.0	16.2	2286	4.764E-06	1.763E-05	200
98.0	18.9	1960	4.084E-06	1.511E-05	200
98.0	21.6	1534	3.197E-06	1.183E-05	200
98.0	24.3	866	1.388E-06	5.135E-06	200
98.0	27.0	672	1.401E-06	5.183E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM X10E+6	EU/Q 1/SQ.M	DISTANCE METERS
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106.0	0.3	5528	1.152E-05	4.261E-05	200
106.0	0.7	5753	1.199E-05	4.435E-05	200
106.0	1.4	4065	8.471E-06	3.134E-05	200
106.0	2.7	4642	9.671E-06	3.578E-05	200
106.0	4.1	7272	1.515E-05	5.606E-05	200
106.0	5.4	6651	1.386E-05	5.127E-05	200
106.0	6.8	5762	1.201E-05	4.442E-05	200
106.0	8.1	5888	1.227E-05	4.539E-05	200
106.0	9.4	6653	1.386E-05	5.127E-05	200
106.0	10.8	5961	1.242E-05	4.596E-05	200
106.0	13.5	5450	1.135E-05	4.201E-05	200
106.0	16.2	6216	1.295E-05	4.792E-05	200
106.0	18.9	4329	9.020E-06	3.337E-05	200
106.0	21.6	4573	9.529E-06	3.526E-05	200
106.0	24.3	1816	3.785E-06	1.401E-05	200
106.0	27.0	1785	3.720E-06	1.376E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM X10E+6	EU/Q 1/SQ.M	DISTANCE METERS
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114.0	0.3	61884	1.289E-04	4.770E-04	200
114.0	0.7	82934	1.728E-04	6.393E-04	200
114.0	1.4	55660	1.160E-04	4.290E-04	200
114.0	2.7	59504	1.241E-04	4.590E-04	200
114.0	4.1	73874	1.539E-04	5.694E-04	200
114.0	5.4	82869	1.726E-04	6.388E-04	200
114.0	6.8	81803	1.704E-04	6.306E-04	200
114.0	8.1	74329	1.549E-04	5.730E-04	200
114.0	9.4	79668	1.660E-04	6.141E-04	200
114.0	10.8	81716	1.702E-04	6.299E-04	200
114.0	13.5	65487	1.363E-04	5.045E-04	200
114.0	16.2	54598	1.137E-04	4.209E-04	200
114.0	18.9	46418	9.670E-05	3.578E-04	200
114.0	21.6	40641	8.467E-05	3.133E-04	200
114.0	24.3	20385	4.239E-05	1.568E-04	200
114.0	27.0	15393	3.207E-05	1.187E-04	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM X10E+6	EU/Q 1/SQ.M	DISTANCE METERS
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122.0	0.3	82302	1.715E-04	6.344E-04	200
122.0	0.7	114486	2.385E-04	8.825E-04	200
122.0	1.4	78297	1.631E-04	6.035E-04	200
122.0	2.7	64020	1.334E-04	4.935E-04	200
122.0	4.1	76112	1.586E-04	5.867E-04	200
122.0	5.4	84676	1.768E-04	6.527E-04	200
122.0	6.8	84222	1.730E-04	6.388E-04	200
122.0	8.1	89264	1.860E-04	6.881E-04	200
122.0	9.4	98892	2.060E-04	7.623E-04	200
122.0	10.8	97490	2.031E-04	7.515E-04	200
122.0	13.5	66952	1.395E-04	5.161E-04	200
122.0	16.2	57212	1.192E-04	4.410E-04	200
122.0	18.9	39882	8.309E-05	3.078E-04	200
122.0	21.6	32684	6.809E-05	2.519E-04	200
122.0	24.3	19083	3.976E-05	1.471E-04	200
122.0	27.0	13877	2.891E-05	1.070E-04	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
130.0	0.1	1117	2.329E-06	8.617E-06	200	106.0	0.3	201	4.208E-07	1.557E-06	800
130.0	0.7	1150	2.396E-06	8.865E-06	200	106.0	0.5	751	1.567E-06	5.796E-06	800
130.0	1.4	611	1.273E-06	4.710E-06	200	106.0	1.0	427	8.901E-07	3.293E-06	800
130.0	2.7	514	1.113E-06	4.118E-06	200	106.0	2.1	665	1.386E-06	5.129E-06	800
130.0	4.1	382	7.965E-07	2.947E-06	200	106.0	4.2	756	1.576E-06	5.832E-06	800
130.0	5.4	621	1.295E-06	4.791E-06	200	106.0	6.3	582	1.210E-06	4.491E-06	800
130.0	6.8	445	9.274E-07	3.432E-06	200	106.0	8.4	786	1.639E-06	6.066E-06	800
130.0	8.1	754	1.571E-06	5.813E-06	200	106.0	10.5	780	1.625E-06	6.014E-06	800
130.0	9.4	488	1.018E-06	3.768E-06	200	106.0	12.6	746	1.555E-06	5.754E-06	800
130.0	10.8	527	1.098E-06	4.064E-06	200	106.0	14.7	883	1.840E-06	6.808E-06	800
130.0	13.5	443	9.238E-07	3.418E-06	200	106.0	16.8	979	2.041E-06	7.550E-06	800
130.0	16.2	347	7.238E-07	2.678E-06	200	106.0	21.0	842	1.756E-06	6.496E-06	800
130.0	18.9	350	7.310E-07	2.705E-06	200	106.0	25.2	532	1.109E-06	4.103E-06	800
130.0	21.6	343	7.165E-07	2.651E-06	200	106.0	29.4	498	1.038E-06	3.840E-06	800
130.0	24.3	144	3.017E-07	1.116E-06	200	106.0	33.6	439	9.161E-07	3.389E-06	800
130.0	27.0	244	5.049E-07	1.883E-06	200	106.0	37.8	327	6.826E-07	2.526E-06	800
						106.0	42.0	213	4.441E-07	1.643E-06	800

TEST F17 JUNE 13, 1963 0377 TO 0420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
ROOM ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
7	100.0	55	1.160E-07	4.256E-07	800
	102.0	712	1.484E-06	5.492E-06	800
	104.0	775	1.616E-06	5.979E-06	800
	106.0	893	1.862E-06	6.891E-06	800
	108.0	1014	2.114E-06	7.823E-06	800
	110.0	1856	3.867E-06	1.431E-05	800
	112.0	7427	1.547E-05	5.726E-05	800
	114.0	19125	3.984E-05	1.474E-04	800
	116.0	38176	7.954E-05	2.943E-04	800
	118.0	28800	6.000E-05	2.220E-04	800
	120.0	13806	2.876E-05	1.064E-04	800
	122.0	8818	1.837E-05	6.798E-05	800
	124.0	5737	1.195E-05	4.422E-05	800
	126.0	3954	8.238E-06	3.048E-05	800
	128.0	2303	4.794E-06	1.775E-05	800
	130.0	720	1.501E-06	5.553E-06	800
	132.0	76	1.589E-07	5.878E-07	800

CROSSWIND INTEGRATED= 7.811E-03 2.890E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST F17 JUNE 13, 1963 0377 TO 0420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
ROOM ARC U= 3.7 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
98.0	14.7	27	5.629E-08	2.083E-07	800
98.0	21.0	30	6.333E-08	2.343E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
114.0	0.3	17130	3.569E-05	1.320E-04	800
114.0	0.5	14523	3.026E-05	1.120E-04	800
114.0	1.0	13138	2.737E-05	1.013E-04	800
114.0	2.1	7178	1.496E-05	5.534E-05	800
114.0	4.2	13656	2.845E-05	1.053E-04	800
114.0	6.3	12829	2.673E-05	9.889E-05	800
114.0	8.4	12609	2.627E-05	9.720E-05	800
114.0	10.5	13321	2.900E-05	1.073E-04	800
114.0	12.6	14197	2.958E-05	1.094E-04	800
114.0	14.7	11969	2.390E-05	8.841E-05	800
114.0	16.8	9426	1.964E-05	7.266E-05	800
114.0	21.0	5812	1.211E-05	4.481E-05	800
114.0	25.2	4163	8.673E-06	3.209E-05	800
114.0	29.4	2706	5.638E-06	2.086E-05	800
114.0	33.6	2250	4.689E-06	1.735E-05	800
114.0	37.8	1939	4.040E-06	1.495E-05	800
114.0	42.0	889	1.852E-06	6.854E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
122.0	0.3	7134	1.486E-05	5.499E-05	800
122.0	0.5	5938	1.237E-05	4.577E-05	800
122.0	1.0	4760	9.918E-06	3.670E-05	800
122.0	2.1	5442	1.134E-05	4.195E-05	800
122.0	4.2	5268	1.098E-05	4.061E-05	800
122.0	6.3	5501	1.146E-05	4.241E-05	800
122.0	8.4	5932	1.236E-05	4.573E-05	800
122.0	10.5	6130	1.277E-05	4.725E-05	800
122.0	12.6	4983	1.038E-05	3.841E-05	800
122.0	14.7	5414	1.128E-05	4.173E-05	800
122.0	16.8	4774	9.946E-06	3.680E-05	800
122.0	21.0	4534	9.446E-06	3.495E-05	800
122.0	25.2	2934	6.113E-06	2.262E-05	800
122.0	29.4	1604	3.342E-06	1.237E-05	800
122.0	33.6	1820	2.959E-06	1.095E-05	800
122.0	37.8	745	1.553E-06	5.746E-06	800
122.0	42.0	609	1.269E-06	4.694E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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130.0	0.3	649	1.353E-06	5.006E-06	800
130.0	0.5	357	7.445E-07	2.755E-06	800
130.0	1.0	42	8.795E-08	3.254E-07	800
130.0	2.1	401	8.373E-07	3.098E-06	800
130.0	4.2	354	7.388E-07	2.734E-06	800
130.0	6.3	363	7.564E-07	2.799E-06	800
130.0	8.4	347	7.247E-07	2.682E-06	800
130.0	10.5	246	5.137E-07	1.901E-06	800
130.0	12.6	216	4.503E-07	1.666E-06	800
130.0	14.7	111	2.322E-07	8.591E-07	800
130.0	16.8	54	1.126E-07	4.166E-07	800
130.0	21.0	74	1.548E-07	5.728E-07	800

TEST F17 JUNE 13, 1963 0377 TO 0420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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105.0	60	1.266E-07	4.684E-07	1600
106.0	335	6.943E-07	2.584E-06	1600
107.0	123	2.573E-07	9.519E-07	1600
108.0	221	4.614E-07	1.707E-06	1600
109.0	399	8.331E-07	3.082E-06	1600
110.0	354	7.391E-07	2.735E-06	1600
111.0	1048	2.165E-06	8.083E-06	1600
112.0	2752	5.733E-06	2.121E-05	1600
113.0	3330	6.938E-06	2.567E-05	1600
114.0	5584	1.163E-05	4.305E-05	1600
115.0	6144	1.240E-05	4.737E-05	1600
116.0	5841	1.217E-05	4.503E-05	1600
117.0	3637	7.579E-06	2.804E-05	1600
118.0	4543	9.466E-06	3.502E-05	1600
119.0	2769	5.770E-06	2.135E-05	1600
120.0	2081	4.337E-06	1.605E-05	1600
121.0	570	1.188E-06	4.397E-06	1600
122.0	1773	3.696E-06	1.367E-05	1600
123.0	1401	2.920E-06	1.080E-05	1600
124.0	1264	2.634E-06	9.745E-06	1600
125.0	1042	2.172E-06	8.038E-06	1600
126.0	1419	2.957E-06	1.094E-05	1600
127.0	684	1.425E-06	5.273E-06	1600
128.0	827	1.723E-06	6.376E-06	1600
129.0	868	1.809E-06	6.693E-06	1600
130.0	417	8.698E-07	3.218E-06	1600
131.0	531	1.107E-06	4.095E-06	1600
132.0	540	1.127E-06	4.170E-06	1600
133.0	584	1.217E-06	4.503E-06	1600
134.0	166	3.471E-07	1.284E-06	1600
135.0	186	3.879E-07	1.435E-06	1600
136.0	221	4.614E-07	1.707E-06	1600
137.0	33	6.942E-08	2.569E-07	1600
138.0	35	7.350E-08	2.720E-07	1600

CROSSWIND INTEGRATED= 3.013E-03 1.115E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST F17 JUNE 13, 1963 0377 TO 0420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC U= 3.7 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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104.0	0.2	141	2.952E-07	1.092E-06	1600
106.0	0.4	251	5.233E-07	1.936E-06	1600
106.0	0.8	199	4.159E-07	1.539E-06	1600
106.0	1.5	131	2.743E-07	1.015E-06	1600
106.0	3.1	69	1.442E-07	5.336E-07	1600
106.0	6.2	244	5.175E-07	1.915E-06	1600
106.0	9.3	249	5.175E-07	1.915E-06	1600
106.0	12.4	168	3.507E-07	1.297E-06	1600
106.0	15.5	275	5.741E-07	2.124E-06	1600
106.0	21.7	242	5.062E-07	1.873E-06	1600
106.0	24.8	117	2.442E-07	9.034E-07	1600
106.0	31.0	135	2.827E-07	1.046E-06	1600
106.0	37.2	143	2.998E-07	1.109E-06	1600
106.0	43.4	28	5.997E-08	2.219E-07	1600
106.0	49.6	178	3.729E-07	1.380E-06	1600
106.0	55.8	63	1.326E-07	4.905E-07	1600
106.0	62.0	103	2.154E-07	7.971E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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114.0	0.2	4727	9.848E-06	3.644E-05	1600
114.0	0.4	3649	7.603E-06	2.813E-05	1600
114.0	0.8	5229	1.090E-05	4.031E-05	1600
114.0	1.5	3879	8.082E-06	2.990E-05	1600
114.0	3.1	4746	9.971E-06	3.689E-05	1600
114.0	6.2	5107	1.064E-05	3.937E-05	1600
114.0	9.3	4993	1.040E-05	3.849E-05	1600
114.0	12.4	4104	8.552E-06	3.164E-05	1600
114.0	15.5	5095	1.062E-05	3.928E-05	1600
114.0	18.6	4036	8.410E-06	3.112E-05	1600
114.0	21.7	3796	7.910E-06	2.927E-05	1600
114.0	24.8	2610	5.438E-06	2.012E-05	1600
114.0	31.0	1537	3.204E-06	1.186E-05	1600
114.0	37.2	1224	2.551E-06	9.438E-06	1600
114.0	43.4	710	1.440E-06	5.476E-06	1600
114.0	49.6	3	8.286E-09	3.066E-08	1600
114.0	55.8	147	3.911E-07	1.447E-06	1600
114.0	62.0	50	1.044E-07	3.863E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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122.0	0.2	970	2.022E-06	7.480E-06	1600
122.0	0.4	1358	2.831E-06	1.048E-05	1600
122.0	0.8	1794	3.739E-06	1.383E-05	1600
122.0	1.5	978	2.039E-06	7.544E-06	1600
122.0	3.1	1358	2.831E-06	1.047E-05	1600
122.0	6.2	63	1.329E-07	4.918E-07	1600
122.0	9.3	103	2.149E-07	7.952E-07	1600
122.0	12.4	1487	3.099E-06	1.147E-05	1600
122.0	15.5	1282	2.672E-06	9.888E-06	1600
122.0	18.6	1174	2.446E-06	9.051E-06	1600
122.0	21.7	840	1.750E-06	6.477E-06	1600
122.0	24.8	657	1.371E-06	5.072E-06	1600
122.0	31.0	437	9.124E-07	3.376E-06	1600
122.0	37.2	7	1.499E-08	5.547E-08	1600
122.0	43.4	132	2.763E-07	1.022E-06	1600
122.0	49.6	104	2.171E-07	8.032E-07	1600
122.0	55.8	48	1.011E-07	3.740E-07	1600
122.0	62.0	24	5.137E-08	1.901E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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130.0	0.2	607	1.266E-06	4.683E-06	1600
130.0	0.4	723	1.507E-06	5.577E-06	1600
Z 130.0	0.8	47	9.844E-08	3.641E-07	1600
130.0	1.5	466	9.724E-07	3.599E-06	1600
S 130.0	3.1	304	6.335E-07	2.344E-06	1600
130.0	6.2	567	1.182E-06	4.374E-06	1600
130.0	9.3	587	1.224E-06	4.531E-06	1600
130.0	12.4	495	1.032E-06	3.819E-06	1600
130.0	15.5	579	1.208E-06	4.468E-06	1600
Z 130.0	18.6	21	4.525E-08	1.674E-07	1600
130.0	21.7	266	5.543E-07	2.051E-06	1600
130.0	24.8	254	5.312E-07	1.965E-06	1600
130.0	31.0	71	1.499E-07	5.547E-07	1600
130.0	37.2	27	5.783E-08	2.149E-07	1600
130.0	43.4	14	2.998E-08	1.109E-07	1600

TEST F17 JUNE 13, 1963 0377 TO 0420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M APC U= 3.7 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	6.2	18	3.907E-08	1.446E-07	3200
106.0	9.3	19	4.077E-08	1.508E-07	3200
106.0	18.6	11	2.374E-08	8.799E-08	3200
106.0	21.7	30	6.285E-08	2.326E-07	3200
106.0	24.8	8	1.710E-08	6.326E-08	3200
106.0	31.0	26	5.557E-08	2.056E-07	3200
106.0	49.6	3	7.264E-09	2.687E-08	3200
106.0	55.8	4	9.691E-09	3.586E-08	3200
Z 106.0	62.0	5	1.211E-08	4.482E-08	3200

TEST F17 JUNE 13, 1963 0377 TO 0420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
105.0	4	1.011E-08	3.742E-08	3200
106.0	24	5.057E-08	1.871E-07	3200
107.0	23	4.854E-08	1.796E-07	3200
108.0	118	2.468E-07	9.130E-07	3200
109.0	108	3.095E-07	1.145E-06	3200
110.0	97	2.023E-07	7.484E-07	3200
111.0	110	2.306E-07	8.532E-07	3200
112.0	210	4.389E-07	1.624E-06	3200
113.0	49	1.032E-07	3.817E-07	3200
114.0	1088	2.267E-06	8.389E-06	3200
115.0	1498	3.121E-06	1.155E-05	3200
116.0	792	1.650E-06	6.107E-06	3200
117.0	1457	3.036E-06	1.123E-05	3200
118.0	1434	2.989E-06	1.106E-05	3200
119.0	1360	2.834E-06	1.048E-05	3200
120.0	1053	2.195E-06	8.120E-06	3200
121.0	601	1.254E-06	4.640E-06	3200
122.0	473	9.871E-07	3.652E-06	3200
123.0	333	6.938E-07	2.567E-06	3200
124.0	363	7.565E-07	2.799E-06	3200
125.0	352	7.342E-07	2.717E-06	3200
126.0	274	5.724E-07	2.118E-06	3200
127.0	213	4.450E-07	1.646E-06	3200
128.0	186	3.883E-07	1.437E-06	3200
129.0	228	4.753E-07	1.759E-06	3200
130.0	152	3.176E-07	1.175E-06	3200
131.0	189	3.944E-07	1.459E-06	3200
132.0	110	2.306E-07	8.532E-07	3200
133.0	158	3.297E-07	1.220E-06	3200
134.0	122	2.549E-07	9.430E-07	3200
135.0	96	2.002E-07	7.409E-07	3200
136.0	154	3.216E-07	1.190E-06	3200
137.0	112	2.346E-07	8.681E-07	3200
138.0	120	2.508E-07	9.280E-07	3200
139.0	133	2.791E-07	1.033E-06	3200
140.0	100	2.104E-07	7.783E-07	3200
141.0	64	1.335E-07	4.939E-07	3200
142.0	11	2.427E-08	8.981E-08	3200
143.0	11	2.427E-08	8.981E-08	3200
144.0	9	2.023E-08	7.484E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.2	1333	2.774E-06	1.028E-05	3200
Z 114.0	0.4	13	2.761E-08	1.022E-07	3200
114.0	0.8	1177	2.453E-06	9.076E-06	3200
114.0	1.5	1142	2.380E-06	8.806E-06	3200
114.0	3.1	1302	2.713E-06	1.004E-05	3200
114.0	6.2	1437	2.995E-06	1.108E-05	3200
114.0	9.3	1603	3.341E-06	1.236E-05	3200
Z 114.0	12.4	13	2.888E-08	1.068E-07	3200
114.0	15.5	1340	2.793E-06	1.033E-05	3200
114.0	18.6	1412	2.942E-06	1.089E-05	3200
114.0	21.7	1507	3.141E-06	1.162E-05	3200
114.0	24.8	980	2.042E-06	7.555E-06	3200
114.0	31.0	1147	2.411E-06	8.920E-06	3200
114.0	37.2	877	1.828E-06	6.764E-06	3200
114.0	43.4	525	1.096E-06	4.054E-06	3200
114.0	55.8	191	3.998E-07	1.479E-06	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
122.0	0.2	408	9.345E-07	3.458E-06	3200
122.0	0.4	489	1.019E-06	3.772E-06	3200
122.0	0.8	269	5.607E-07	2.075E-06	3200
122.0	1.5	440	9.173E-07	3.394E-06	3200
122.0	3.1	452	9.428E-07	3.484E-06	3200
122.0	6.2	523	1.091E-06	4.035E-06	3200
122.0	9.3	434	9.054E-07	3.350E-06	3200
122.0	12.4	669	1.395E-06	5.160E-06	3200
122.0	15.5	353	7.355E-07	2.722E-06	3200
122.0	18.6	468	9.768E-07	3.614E-06	3200
122.0	21.7	483	1.007E-06	3.727E-06	3200
122.0	24.8	458	9.561E-07	3.537E-06	3200
122.0	31.0	484	1.010E-06	3.738E-06	3200
122.0	37.2	332	6.925E-07	2.562E-06	3200
122.0	43.4	282	5.885E-07	2.177E-06	3200
122.0	49.6	206	4.300E-07	1.591E-06	3200
122.0	55.8	180	3.767E-07	1.394E-06	3200
122.0	62.0	73	1.534E-07	5.692E-07	3200

CROSSWIND INTEGRATED= 1.635E-03 SEC/SQ.M
6.048E-03 1/M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
130.0	0.2	136	2.846E-07	1.053E-06	3200
130.0	0.4	153	3.207E-07	1.167E-06	3200
130.0	0.8	224	4.672E-07	1.729E-06	3200
130.0	1.5	107	2.242E-07	8.297E-07	3200
130.0	3.1	203	4.230E-07	1.565E-06	3200
130.0	6.2	221	4.621E-07	1.710E-06	3200
130.0	9.3	228	4.756E-07	1.760E-06	3200
130.0	12.4	219	4.570E-07	1.691E-06	3200
130.0	15.5	159	3.313E-07	1.226E-06	3200
130.0	18.6	90	1.886E-07	6.977E-07	3200
130.0	21.7	267	5.572E-07	2.062E-06	3200
130.0	24.8	129	2.693E-07	9.964E-07	3200
130.0	31.0	84	1.753E-07	6.485E-07	3200
130.0	37.2	81	1.696E-07	6.274E-07	3200
130.0	43.4	97	2.038E-07	7.539E-07	3200
7 130.0	49.6	22	4.603E-08	1.703E-07	3200
130.0	55.8	11	2.423E-08	8.964E-08	3200
130.0	62.0	6	1.450E-08	5.379E-08	3200

SERIES '63 EXPERIMENT: 8 (FT-8)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS. MANY OF THE
FILTERS ON THE TOWERS WERE DAMAGED.

TEST F1R JUNE 28, 1963 0247 TO 0327 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC SAMPLER FT 1.5M U= 1.8 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	FU/D 1/SG ₀ M	DISTANCE METERS
68.0	61	7.730E-08	1.391E-07		200
70.0	72	4.049E-08	7.288E-08		200
72.0	933	1.147E-06	2.100E-06		200
74.0	4528	5.461E-06	1.019E-05		200
76.0	12028	1.504E-05	2.706E-05		200
78.0	31287	3.986E-05	7.175E-05		200
80.0	62737	7.802E-05	1.412E-04		200
82.0	67016	8.377E-05	1.502E-04		200
84.0	116402	1.455E-04	2.619E-04		200
86.0	130815	1.685E-04	3.033E-04		200
88.0	98605	1.233E-04	2.219E-04		200
90.0	40231	1.003E-04	1.805E-04		200
92.0	68249	8.531E-05	1.536E-04		200
94.0	41265	5.158E-05	9.285E-05		200
96.0	24080	1.010E-05	5.418E-05		200
98.0	24528	3.046E-05	5.519E-05		200
100.0	31357	3.920E-05	7.055E-05		200
102.0	87584	1.095E-04	1.971E-04		200
104.0	112622	1.408E-04	2.534E-04		200
106.0	99686	1.206E-04	2.203E-04		200
108.0	114915	1.436E-04	2.586E-04		200
110.0	104394	1.305E-04	2.349E-04		200
112.0	122780	1.535E-04	2.743E-04		200
114.0	109297	1.366E-04	2.459E-04		200
116.0	150742	1.888E-04	3.392E-04		200
118.0	163902	2.049E-04	3.688E-04		200
120.0	138458	1.731E-04	3.115E-04		200
122.0	88992	1.061E-04	1.910E-04		200
124.0	46177	5.772E-05	1.039E-04		200
126.0	22914	2.844E-05	5.156E-05		200
128.0	7300	9.176E-06	1.652E-05		200
130.0	20411	2.551E-05	4.593E-05		200
132.0	33524	4.191E-05	7.543E-05		200
134.0	37623	4.703E-05	8.465E-05		200
136.0	13165	1.606E-05	2.942E-05		200
138.0	968	1.211E-06	2.180E-06		200

CROSSWIND INTEGRATED= 1.981E-02 SEC/SG₀M 3.566E-02 1/M

TOWER DATA FOLLOW....

TEST F1R JUNE 28, 1963 0247 TO 0327 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC U= 1.8 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	FU/D 1/SG ₀ M	DISTANCE METERS
98.0	0.3	23755	2.969E-05	5.345E-05	200
98.0	0.7	22574	2.822E-05	5.079E-05	200
98.0	1.4	25252	3.157E-05	5.682E-05	200
S 98.0	2.7	19022	2.378E-05	4.280E-05	200
98.0	4.1	18197	2.275E-05	4.094E-05	200
S 98.0	5.4	9366	1.171E-05	2.108E-05	200
98.0	6.8	17158	2.145E-05	3.861E-05	200
98.0	9.4	12764	1.596E-05	2.872E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	FU/D 1/SG ₀ M	DISTANCE METERS
106.0	0.3	69182	8.688E-05	1.557E-04	200
106.0	0.7	103091	1.289E-04	2.320E-04	200
106.0	1.4	115569	1.485E-04	2.600E-04	200
106.0	2.7	104946	1.312E-04	2.362E-04	200
S 106.0	4.1	53503	6.688E-05	1.204E-04	200
106.0	5.4	7086	8.802E-06	1.585E-05	200
106.0	6.8	17894	2.237E-05	4.026E-05	200
106.0	13.5	32876	4.110E-05	7.397E-05	200
106.0	18.9	13992	1.749E-05	3.148E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	FU/D 1/SG ₀ M	DISTANCE METERS
114.0	0.3	123629	1.545E-04	2.782E-04	200
114.0	0.7	128734	1.609E-04	2.897E-04	200
114.0	1.4	120808	1.510E-04	2.718E-04	200
114.0	4.1	90717	1.130E-04	2.041E-04	200
114.0	6.8	80452	1.006E-04	1.810E-04	200
114.0	9.4	89788	1.122E-04	2.019E-04	200
S 114.0	10.8	86928	5.866E-05	1.056E-04	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	FU/D 1/SG ₀ M	DISTANCE METERS
122.0	0.3	81049	7.676E-05	1.382E-04	200
122.0	0.7	89812	1.123E-04	2.021E-04	200
122.0	1.4	88285	1.104E-04	1.986E-04	200
S 122.0	2.7	61330	7.666E-05	1.380E-04	200
S 122.0	6.8	95820	1.198E-04	2.156E-04	200
S 122.0	8.1	66595	8.324E-05	1.498E-04	200
S 122.0	9.4	15397	1.925E-05	3.464E-05	200
S 122.0	18.9	58420	7.303E-05	1.310E-04	200
S 122.0	27.0	19972	2.497E-05	4.494E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	FU/D 1/SG ₀ M	DISTANCE METERS
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130.0	0.3	20130	2.516E-05	4.529E-05	200
130.0	0.7	23957	2.995E-05	5.394E-05	200
130.0	1.4	21286	2.661E-05	4.789E-05	200
130.0	2.7	21730	2.717E-05	4.890E-05	200
130.0	4.1	16189	2.020E-05	3.643E-05	200
130.0	5.4	19749	2.460E-05	4.480E-05	200
130.0	9.4	28957	3.620E-05	6.515E-05	200
130.0	16.2	10774	1.347E-05	2.420E-05	200
130.0	18.9	5356	6.695E-06	1.205E-05	200

TEST FTR JUNE 28, 1963 0247 TO 0327 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
ROOM ARC SAMPLER HT 1.5M U= 1.8 M/SFC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	FU/G 1/SG.M	DISTANCE METERS
78.0	242	3.026E-07	5.442E-07	800	
80.0	3289	0.112E-06	7.402E-06	800	
82.0	7608	0.510E-06	1.712E-05	800	
84.0	16161	2.020E-05	3.636E-05	800	
86.0	13410	1.676E-05	3.017E-05	800	
88.0	15708	1.664E-05	3.534E-05	800	
90.0	15107	1.888E-05	3.399E-05	800	
92.0	11891	1.486E-05	2.676E-05	800	
94.0	12139	1.517E-05	2.731E-05	800	
96.0	10145	1.268E-05	2.283E-05	800	
98.0	7408	0.241E-06	1.667E-05	800	
100.0	1760	2.200E-06	3.961E-06	800	
102.0	9183	1.108E-05	2.066E-05	800	
104.0	11308	1.410E-05	2.544E-05	800	
106.0	10524	1.316E-05	2.368E-05	800	
108.0	12962	1.620E-05	2.917E-05	800	
110.0	9818	1.227E-05	2.209E-05	800	
112.0	12233	1.529E-05	2.753E-05	800	
114.0	12356	1.545E-05	2.780E-05	800	
116.0	8533	1.067E-05	1.920E-05	800	
118.0	6904	8.431E-06	1.544E-05	800	
120.0	6901	8.627E-06	1.553E-05	800	
122.0	5799	7.249E-06	1.305E-05	800	
124.0	5166	6.459E-06	1.163E-05	800	
126.0	4597	5.747E-06	1.034E-05	800	
128.0	3378	4.223E-06	7.401E-06	800	
130.0	2808	3.540E-06	6.409E-06	800	
132.0	3195	3.995E-06	7.191E-06	800	
134.0	4238	5.298E-06	9.536E-06	800	
136.0	5095	6.370E-06	1.147E-05	800	
138.0	2882	3.603E-06	6.486E-06	800	
140.0	1976	2.471E-06	4.408E-06	800	
142.0	942	1.179E-06	2.121E-06	800	
144.0	375	4.700E-07	8.460E-07	800	
146.0	105	1.317E-07	2.371E-07	800	

CROSSHAIR INTEGRATED= 8.943E-03 1.610E-02
SEC/80.M 1/M

TOWER DATA FOLLOW....

TEST FTR JUNE 28, 1963 0247 TO 0327 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
ROOM ARC U= 1.8 M/SFC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	FU/G 1/SG.M	DISTANCE METERS
98.0	0.3	4461	8.077E-06	1.454E-05	800
98.0	0.5	7542	9.453E-06	1.701E-05	800
98.0	1.0	6240	7.826E-06	1.409E-05	800
98.0	2.1	8026	1.003E-05	1.806E-05	800
98.0	25.2	703	8.793E-07	1.583E-06	800
98.0	42.0	1488	1.861E-06	3.349E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	FU/G 1/SG.M	DISTANCE METERS
106.0	0.3	7707	9.680E-06	1.743E-05	800
106.0	0.5	11386	1.423E-05	2.562E-05	800
106.0	1.0	9453	1.182E-05	2.127E-05	800
106.0	2.1	8115	1.010E-05	1.826E-05	800
106.0	4.2	6024	7.530E-06	1.355E-05	800
106.0	6.3	4281	5.351E-06	9.632E-06	800
S 106.0	16.8	358	4.486E-07	8.075E-07	800
S 106.0	21.0	1019	1.275E-06	2.294E-06	800
S 106.0	42.0	1327	1.660E-06	2.987E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	FU/G 1/SG.M	DISTANCE METERS
114.0	0.3	7881	9.851E-06	1.773E-05	800
114.0	0.5	7819	9.774E-06	1.759E-05	800
114.0	1.0	9123	1.140E-05	2.053E-05	800
114.0	2.1	8060	1.008E-05	1.818E-05	800
114.0	6.3	12014	1.502E-05	2.703E-05	800
114.0	12.6	6331	7.915E-06	1.425E-05	800
114.0	14.7	4788	5.935E-06	1.068E-05	800
114.0	16.8	3415	4.269E-06	7.684E-06	800
114.0	37.8	2446	3.058E-06	5.505E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	FU/G 1/SG.M	DISTANCE METERS
122.0	0.3	4977	6.222E-06	1.120E-05	800
122.0	0.5	5586	6.983E-06	1.257E-05	800
122.0	1.0	4910	6.138E-06	1.105E-05	800
122.0	2.1	6585	8.232E-06	1.482E-05	800
122.0	4.2	7724	9.656E-06	1.738E-05	800
122.0	6.3	4047	5.059E-06	9.107E-06	800
122.0	12.6	1711	2.140E-06	3.852E-06	800
122.0	37.8	713	8.913E-07	1.604E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	FU/G 1/SG.M	DISTANCE METERS
130.0	0.3	3270	4.094E-06	7.368E-06	800
130.0	0.5	2708	3.385E-06	6.094E-06	800
130.0	1.0	2609	3.261E-06	5.870E-06	800
130.0	2.1	3104	3.881E-06	6.986E-06	800
130.0	4.2	1301	1.677E-06	3.019E-06	800
130.0	6.3	2139	2.674E-06	4.813E-06	800
130.0	8.4	1481	1.851E-06	3.333E-06	800
130.0	12.6	1036	1.296E-06	2.333E-06	800
130.0	16.8	669	8.367E-07	1.506E-06	800
130.0	25.2	278	3.481E-07	6.266E-07	800
130.0	37.8	36	4.502E-08	8.103E-08	800

TEST F18 JUNE 28, 1963 0247 TO 0327 PST
ZINC SULFIDE HELFASE FROM ELEVATION OF 7M
1600M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 7M

AZIMUTH EXPOSURE F/R EU/G DISTANCE
DEGREES GM-SEC/CU.M SEC/CU.M 1/SG.M METERS
X10E+6

79.0	23	5.379E-08	9.683E-08	1600
80.0	36	4.611E-08	8.299E-08	1600
81.0	79	9.900E-08	1.799E-07	1600
82.0	239	2.997E-07	5.395E-07	1600
83.0	704	8.812E-07	1.586E-06	1600
84.0	1321	1.652E-06	2.974E-06	1600
85.0	2053	2.567E-06	4.620E-06	1600
86.0	3219	4.024E-06	7.243E-06	1600
87.0	4524	5.656E-06	1.012E-05	1600
88.0	4938	6.173E-06	1.111E-05	1600
89.0	5647	7.060E-06	1.271E-05	1600
90.0	6239	7.800E-06	1.404E-05	1600
91.0	3965	4.957E-06	8.922E-06	1600
92.0	3457	4.371E-06	7.779E-06	1600
93.0	4102	5.128E-06	9.231E-06	1600
94.0	2678	3.348E-06	6.026E-06	1600
95.0	2661	3.327E-06	5.989E-06	1600
96.0	3293	4.116E-06	7.409E-06	1600
97.0	2461	3.076E-06	5.538E-06	1600
98.0	2317	2.847E-06	5.215E-06	1600
99.0	2211	2.790E-06	5.021E-06	1600
100.0	2588	3.235E-06	5.823E-06	1600
101.0	2266	2.833E-06	5.099E-06	1600
102.0	2180	2.725E-06	4.906E-06	1600
103.0	2065	2.582E-06	4.649E-06	1600
104.0	1788	2.211E-06	3.979E-06	1600
105.0	1366	1.709E-06	3.075E-06	1600
106.0	1787	2.185E-06	3.933E-06	1600
107.0	1735	2.170E-06	3.905E-06	1600
108.0	1821	2.277E-06	4.099E-06	1600
109.0	1897	2.372E-06	4.270E-06	1600
110.0	1954	2.444E-06	4.399E-06	1600
111.0	1965	2.457E-06	4.422E-06	1600
112.0	1588	1.980E-06	3.564E-06	1600
113.0	1586	1.983E-06	3.569E-06	1600
114.0	1198	1.498E-06	2.697E-06	1600
115.0	1370	1.714E-06	3.095E-06	1600
116.0	1331	1.645E-06	2.997E-06	1600
117.0	1141	1.427E-06	2.568E-06	1600
118.0	1387	1.734E-06	3.121E-06	1600
119.0	856	1.071E-06	1.927E-06	1600
120.0	1557	1.907E-06	3.504E-06	1600
121.0	1463	1.829E-06	3.292E-06	1600
122.0	1050	1.814E-06	3.264E-06	1600
123.0	1131	1.814E-06	3.264E-06	1600
124.0	899	1.125E-06	2.024E-06	1600
125.0	830	1.043E-06	1.877E-06	1600
126.0	711	8.888E-07	1.600E-06	1600
127.0	631	7.889E-07	1.420E-06	1600
128.0	649	8.120E-07	1.462E-06	1600
129.0	377	4.713E-07	8.884E-07	1600
130.0	331	4.150E-07	7.869E-07	1600
131.0	317	3.920E-07	7.147E-07	1600
132.0	182	2.780E-07	4.104E-07	1600
133.0	290	3.637E-07	6.587E-07	1600
134.0	239	2.997E-07	5.395E-07	1600
135.0	235	2.904E-07	5.302E-07	1600
136.0	188	2.357E-07	4.242E-07	1600
137.0	32	4.098E-08	7.377E-08	1600
138.0	22	2.818E-08	5.072E-08	1600
140.0	16	2.049E-08	3.689E-08	1600
141.0	22	2.818E-08	5.072E-08	1600

CROSSWIND INTEGRATED= 1.548E-03 6.387E-03
SEC/SEC.M 1/M

TONER DATA FOLLOW....

TEST F18 JUNE 28, 1963 0247 TO 0327 PST
ZINC SULFIDE HELFASE FROM ELEVATION OF 7M
1600M ARC U= 1.8 M/SEC AT 7M

AZIMUTH HEIGHT EXPOSURE F/R EU/G DISTANCE
DEGREES METERS GM-SEC/CU.M SEC/CU.M 1/SG.M METERS
X10E+6

98.0	0.2	1922	2.403E-06	4.326E-06	1600
98.0	0.4	2177	2.722E-06	4.899E-06	1600
98.0	0.8	1798	2.245E-06	4.087E-06	1600
98.0	1.5	1983	2.480E-06	4.463E-06	1600
98.0	3.1	2741	3.427E-06	6.149E-06	1600
98.0	6.2	2787	3.475E-06	6.261E-06	1600
98.0	9.3	2368	2.961E-06	5.330E-06	1600
98.0	12.4	1577	1.972E-06	3.550E-06	1600
98.0	15.5	1520	1.901E-06	3.421E-06	1600
98.0	18.6	805	1.007E-06	1.812E-06	1600
98.0	21.7	887	1.109E-06	1.996E-06	1600
98.0	24.8	893	1.117E-06	2.010E-06	1600
98.0	31.0	950	1.188E-06	2.138E-06	1600
98.0	37.2	527	6.592E-07	1.187E-06	1600
98.0	43.4	661	8.263E-07	1.487E-06	1600
98.0	49.6	601	7.522E-07	1.354E-06	1600
98.0	55.8	475	5.946E-07	1.070E-06	1600
98.0	62.0	494	6.178E-07	1.112E-06	1600

AZIMUTH HEIGHT EXPOSURE F/R EU/G DISTANCE
DEGREES METERS GM-SEC/CU.M SEC/CU.M 1/SG.M METERS
X10E+6

108.0	0.2	140	2.001E-07	3.601E-07	1600
106.0	0.4	380	4.762E-07	8.571E-07	1600
106.0	0.8	1895	2.370E-06	4.265E-06	1600
106.0	1.5	1748	2.211E-06	3.979E-06	1600
106.0	3.1	2354	2.943E-06	5.298E-06	1600
106.0	6.2	2268	2.834E-06	5.104E-06	1600
106.0	9.3	2701	3.427E-06	6.149E-06	1600
S 108.0	12.4	813	1.017E-06	1.880E-06	1600
S 106.0	15.5	1282	1.604E-06	2.884E-06	1600
S 106.0	18.6	1559	1.909E-06	3.509E-06	1600
S 106.0	21.7	1887	1.860E-06	3.347E-06	1600
S 106.0	24.8	1001	1.252E-06	2.254E-06	1600
S 108.0	31.0	1008	1.261E-06	2.270E-06	1600
S 106.0	37.2	1113	1.392E-06	2.505E-06	1600
Z 106.0	43.4	10	1.373E-07	2.472E-08	1600
106.0	49.6	667	8.342E-07	1.502E-06	1600
106.0	55.8	968	1.210E-06	2.179E-06	1600
S 108.0	62.0	450	5.631E-07	1.014E-06	1600

AZIMUTH HEIGHT EXPOSURE F/R EU/G DISTANCE
DEGREES METERS GM-SEC/CU.M SEC/CU.M 1/SG.M METERS
X10E+6

114.0	0.2	1160	1.451E-06	2.612E-06	1600
114.0	0.4	1190	1.488E-06	2.678E-06	1600
114.0	0.8	1052	1.316E-06	2.369E-06	1600
114.0	1.5	1180	1.475E-06	2.658E-06	1600
114.0	3.1	1260	1.575E-06	2.836E-06	1600
114.0	6.2	1786	2.234E-06	4.021E-06	1600
114.0	9.3	1729	2.162E-06	3.891E-06	1600
114.0	12.4	1477	1.847E-06	3.324E-06	1600
114.0	15.5	665	8.325E-07	1.498E-06	1600
114.0	18.6	1239	1.550E-06	2.790E-06	1600
114.0	21.7	702	8.786E-07	1.581E-06	1600
114.0	24.8	816	1.021E-06	1.837E-06	1600
S 114.0	31.0	492	8.652E-07	1.557E-06	1600
S 114.0	37.2	690	8.625E-07	1.553E-06	1600
S 114.0	43.4	915	5.194E-07	9.352E-07	1600
114.0	49.6	314	3.929E-07	7.073E-07	1600
Z 114.0	55.8	132	1.660E-07	2.988E-07	1600
114.0	62.0	99	1.280E-07	2.231E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10F+6	E/C SEC/CM ²	FL/G 1/SEC ²	DISTANCE METERS
122.0	0.2	764	9.552E-07	1.719E-06	1600
Z 122.0	0.4	392	4.903E-07	8.825E-07	1600
122.0	0.8	707	8.808E-07	1.593E-06	1600
122.0	1.5	1081	1.352E-06	2.434E-06	1600
122.0	3.1	1305	1.637E-06	2.937E-06	1600
122.0	6.2	1375	1.719E-06	3.094E-06	1600
Z 122.0	9.3	139	1.742E-07	3.135E-07	1600
122.0	12.4	392	4.406E-07	7.930E-07	1600
122.0	15.5	23	1.030E-06	1.854E-06	1600
122.0	18.6	629	7.864E-07	1.415E-06	1600
122.0	21.7	645	8.069E-07	1.452E-06	1600
122.0	24.8	450	5.630E-07	1.013E-06	1600
T 122.0	31.0	51	6.409E-08	1.154E-07	1600
122.0	37.2	311	3.891E-07	7.004E-07	1600
S 122.0	43.4	111	1.396E-07	2.513E-07	1600
122.0	49.6	89	1.114E-07	2.005E-07	1600
122.0	55.8	67	8.405E-08	1.513E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10F+6	E/C SEC/CM ²	FL/G 1/SEC ²	DISTANCE METERS
Z 130.0	0.2	56	7.044E-08	1.288E-07	1600
130.0	0.4	243	3.043E-07	5.978E-07	1600
130.0	0.8	297	3.715E-07	6.695E-07	1600
130.0	1.5	196	2.459E-07	4.826E-07	1600
130.0	3.1	344	4.303E-07	7.746E-07	1600
130.0	6.2	280	3.509E-07	6.317E-07	1600
130.0	9.3	545	6.814E-07	1.226E-06	1600
130.0	12.4	481	6.020E-07	1.084E-06	1600
130.0	15.5	213	2.864E-07	4.795E-07	1600
130.0	18.6	180	2.254E-07	4.057E-07	1600
130.0	21.7	229	2.869E-07	5.167E-07	1600
T 130.0	24.8	95	1.190E-07	2.147E-07	1600
130.0	31.0	47	5.951E-08	1.071E-07	1600
130.0	37.2	45	5.722E-08	1.030E-07	1600
Z 130.0	43.4	75	9.384E-08	1.689E-07	1600

TEST FIR JUNE 28, 1963 0247 TO 0327 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10F+6	E/C SEC/CM ²	FL/G 1/SEC ²	DISTANCE METERS
71.0	51	6.472E-08	1.158E-07	3200
76.0	14	1.820E-08	3.277E-08	3200
77.0	94	1.201E-07	2.163E-07	3200
78.0	19	2.427E-08	4.369E-08	3200
79.0	19	2.427E-08	4.369E-08	3200
80.0	40	5.097E-08	9.175E-08	3200
81.0	51	6.472E-08	1.158E-07	3200
82.0	61	7.644E-08	1.376E-07	3200
83.0	83	1.044E-07	1.879E-07	3200
84.0	108	1.359E-07	2.447E-07	3200
85.0	125	1.566E-07	2.818E-07	3200
86.0	141	2.015E-07	3.626E-07	3200
87.0	279	3.095E-07	5.291E-07	3200
88.0	487	6.492E-07	1.097E-06	3200
89.0	948	1.211E-06	2.180E-06	3200
90.0	1045	1.307E-06	2.353E-06	3200
91.0	1199	1.500E-06	2.700E-06	3200
92.0	1757	2.197E-06	3.954E-06	3200
93.0	1736	2.171E-06	3.908E-06	3200
94.0	1523	1.900E-06	3.427E-06	3200
95.0	1560	1.950E-06	3.510E-06	3200
96.0	2126	2.658E-06	4.784E-06	3200
97.0	1338	1.670E-06	3.012E-06	3200
98.0	1249	1.562E-06	2.811E-06	3200
99.0	1207	1.510E-06	2.717E-06	3200
100.0	657	8.216E-07	1.479E-06	3200
101.0	833	1.041E-06	1.878E-06	3200
102.0	524	6.553E-07	1.180E-06	3200
103.0	565	7.063E-07	1.271E-06	3200
104.0	397	4.944E-07	8.934E-07	3200
105.0	355	4.442E-07	7.995E-07	3200
107.0	124	1.553E-07	2.796E-07	3200
108.0	110	1.383E-07	2.490E-07	3200
109.0	105	1.820E-07	3.277E-07	3200
110.0	30	3.762E-08	6.772E-08	3200
111.0	8	1.092E-08	1.966E-08	3200
112.0	6	8.495E-09	1.529E-08	3200
113.0	8	1.092E-08	1.966E-08	3200
114.0	8	1.092E-08	1.966E-08	3200
117.0	18	2.306E-08	4.150E-08	3200

CROSSWIND INTEGRATED= 1.509E-03 2.716E-03
SEC/SEC² 1/M

TOWER DATA FOLLOW...

TEST FIR JUNE 28, 1963 0247 TO 0327 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M ARC U= 1.8 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10F+6	E/C SEC/CM ²	FL/G 1/SEC ²	DISTANCE METERS
98.0	0.2	1338	1.673E-06	3.012E-06	3200
98.0	0.4	1459	1.825E-06	3.285E-06	3200
98.0	0.8	1489	1.862E-06	3.351E-06	3200
98.0	1.5	1744	2.131E-06	3.925E-06	3200
98.0	3.1	1901	2.377E-06	4.279E-06	3200
98.0	6.2	2348	2.936E-06	5.284E-06	3200
98.0	9.3	2087	2.609E-06	4.697E-06	3200
98.0	12.4	1053	1.317E-06	2.370E-06	3200
98.0	15.5	1952	2.441E-06	4.393E-06	3200
98.0	18.6	1017	1.272E-06	2.289E-06	3200
98.0	21.7	1976	2.471E-06	4.448E-06	3200
98.0	24.8	1211	1.514E-06	2.725E-06	3200
98.0	31.0	1603	2.004E-06	3.607E-06	3200
98.0	37.2	1543	1.958E-06	3.518E-06	3200
T 98.0	43.4	687	8.596E-07	1.547E-06	3200
98.0	49.6	1572	1.966E-06	3.539E-06	3200
98.0	55.8	1156	1.446E-06	2.602E-06	3200
98.0	62.0	1248	1.560E-06	2.809E-06	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SEC.M	DISTANCE METERS
106.0	0.2	209	3.122E-07	5.620E-07	3200
106.0	0.4	214	2.676E-07	4.817E-07	3200
106.0	0.8	323	4.039E-07	7.271E-07	3200
Z 106.0	1.5	10	1.335E-08	2.403E-08	3200
106.0	3.1	302	4.284E-07	7.711E-07	3200
106.0	6.2	459	5.740E-07	1.033E-06	3200
106.0	9.3	491	6.141E-07	1.105E-06	3200
106.0	12.0	408	5.109E-07	9.197E-07	3200
106.0	15.5	607	7.597E-07	1.367E-06	3200
106.0	18.6	503	6.299E-07	1.134E-06	3200
106.0	21.7	502	6.286E-07	1.132E-06	3200
106.0	24.8	381	4.773E-07	8.591E-07	3200
106.0	31.0	314	3.927E-07	7.069E-07	3200
106.0	37.2	473	5.920E-07	1.066E-06	3200
106.0	43.4	353	4.414E-07	7.945E-07	3200
106.0	49.6	264	3.302E-07	5.943E-07	3200
106.0	55.8	317	3.973E-07	7.152E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SEC.M	DISTANCE METERS
114.0	0.4	27	3.441E-08	6.193E-08	3200
114.0	0.8	55	6.881E-08	1.239E-07	3200
114.0	3.1	13	1.699E-08	3.058E-08	3200
114.0	18.6	29	3.641E-08	6.553E-08	3200
114.0	21.7	36	4.612E-08	8.301E-08	3200
114.0	24.8	10	1.274E-08	2.294E-08	3200
114.0	31.0	14	1.853E-08	3.336E-08	3200
114.0	37.2	9	1.158E-08	2.085E-08	3200
114.0	43.4	8	1.043E-08	1.877E-08	3200
114.0	55.8	9	1.158E-08	2.085E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SEC.M	DISTANCE METERS
122.0	0.2	10	1.274E-08	2.294E-08	3200
122.0	0.4	16	2.039E-08	3.670E-08	3200
122.0	0.8	68	8.538E-08	1.537E-07	3200
122.0	9.3	18	2.306E-08	4.150E-08	3200

SERIES '63 EXPERIMENT: 9 (FT-9)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS.

TEST F19 JULY 2, 1963 0322 TO 0422 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
80.0	44	3.650E-08	1.168E-07	200
82.0	191	1.582E-07	5.042E-07	200
84.0	29	2.434E-08	7.787E-08	200
86.0	329	2.726E-07	8.722E-07	200
88.0	1690	1.397E-06	4.470E-06	200
90.0	6628	5.478E-06	1.753E-05	200
92.0	14416	1.191E-05	3.813E-05	200
94.0	13082	1.081E-05	3.460E-05	200
96.0	15200	1.256E-05	4.020E-05	200
98.0	17196	1.421E-05	4.548E-05	200
100.0	17546	1.450E-05	4.640E-05	200
102.0	10079	8.330E-06	2.666E-05	200
104.0	10883	8.994E-06	2.878E-05	200
106.0	15609	1.290E-05	4.128E-05	200
108.0	32490	2.685E-05	8.593E-05	200
110.0	38883	3.214E-05	1.028E-04	200
112.0	54931	4.540E-05	1.453E-04	200
114.0	61789	5.102E-05	1.634E-04	200
116.0	82575	6.824E-05	2.184E-04	200
118.0	86323	7.134E-05	2.283E-04	200
120.0	93820	7.754E-05	2.481E-04	200
C 122.0	10176	8.410E-06	2.691E-05	200
C 124.0	8645	7.145E-06	2.266E-05	200
C 126.0	9487	7.841E-06	2.509E-05	200
C 128.0	2744	2.268E-06	7.258E-06	200
C 130.0	1116	9.223E-07	2.951E-06	200
C 132.0	444	3.675E-07	1.176E-06	200
C 134.0	32	2.677E-08	8.566E-08	200

CROSSWIND INTEGRATED= 3.499E-03 1.120E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST F19 JULY 2, 1963 0322 TO 0422 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC U= 3.2 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
98.0	0.3	23274	1.923E-05	6.155E-05	200
98.0	0.7	19057	1.575E-05	5.040E-05	200
98.0	1.4	11925	9.856E-06	3.154E-05	200
98.0	2.7	16916	1.398E-05	4.474E-05	200
98.0	4.1	23932	1.978E-05	6.329E-05	200
98.0	5.4	17529	1.102E-05	9.925E-05	200
98.0	6.8	64906	5.364E-05	1.717E-04	200
98.0	8.1	76277	6.304E-05	2.017E-04	200
98.0	9.4	87686	7.247E-05	2.319E-04	200
98.0	10.8	39184	3.232E-05	1.034E-04	200
98.0	13.5	64155	5.302E-05	1.697E-04	200
98.0	16.2	55944	4.625E-05	1.460E-04	200
98.0	18.9	34790	2.875E-05	9.201E-05	200
98.0	21.6	31454	2.600E-05	8.319E-05	200
98.0	24.3	14106	1.164E-05	3.741E-05	200
98.0	27.0	8927	7.394E-06	2.366E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
106.0	0.3	19717	1.630E-05	5.214E-05	200
106.0	0.7	20265	1.675E-05	5.359E-05	200
106.0	1.4	13674	1.127E-05	3.606E-05	200
106.0	2.7	13666	1.129E-05	3.614E-05	200
106.0	4.1	10491	8.670E-06	2.775E-05	200
106.0	5.4	17373	1.436E-05	4.595E-05	200
106.0	6.8	9044	7.491E-06	2.397E-05	200
106.0	8.1	10327	1.184E-05	3.789E-05	200
106.0	9.4	10259	1.179E-05	3.771E-05	200
106.0	10.8	14551	1.203E-05	3.884E-05	200
106.0	13.5	11743	9.722E-06	3.111E-05	200
106.0	16.2	11368	9.395E-06	3.007E-05	200
106.0	18.9	4627	3.824E-06	1.224E-05	200
106.0	21.6	6709	5.545E-06	1.774E-05	200
106.0	24.3	4100	3.422E-06	1.095E-05	200
106.0	27.0	3260	2.695E-06	8.623E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
114.0	0.3	48399	4.000E-05	1.280E-04	200
114.0	0.7	40530	5.003E-05	1.601E-04	200
114.0	1.4	37471	3.997E-05	1.291E-04	200
114.0	2.7	41505	3.430E-05	1.094E-04	200
114.0	4.1	46407	3.835E-05	1.227E-04	200
114.0	5.4	44107	3.811E-05	1.219E-04	200
114.0	6.8	48347	3.999E-05	1.280E-04	200
114.0	8.1	52979	4.378E-05	1.401E-04	200
114.0	9.4	54061	4.466E-05	1.430E-04	200
114.0	10.8	57608	4.752E-05	1.521E-04	200
114.0	13.5	46780	3.864E-05	1.237E-04	200
114.0	16.2	39174	3.238E-05	1.036E-04	200
114.0	18.9	22770	1.882E-05	6.022E-05	200
114.0	21.6	16240	1.304E-05	4.301E-05	200
114.0	24.3	14049	1.164E-05	3.726E-05	200
114.0	27.0	7542	6.250E-06	2.000E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
C 122.0	0.3	8032	6.639E-06	2.124E-05	200
C 122.0	0.7	11549	9.545E-06	3.054E-05	200
C 122.0	1.4	7072	5.845E-06	1.870E-05	200
C 122.0	2.7	8731	7.216E-06	2.309E-05	200
122.0	4.1	41403	3.422E-05	1.095E-04	200
122.0	5.4	46444	3.838E-05	1.228E-04	200
122.0	6.8	50319	4.159E-05	1.331E-04	200
122.0	8.1	46041	3.808E-05	1.219E-04	200
122.0	9.4	44643	3.856E-05	1.234E-04	200
122.0	10.8	46211	3.819E-05	1.222E-04	200
122.0	13.5	37098	3.066E-05	9.811E-05	200
122.0	16.2	39131	3.234E-05	1.035E-04	200
122.0	18.9	28645	2.368E-05	7.578E-05	200
122.0	21.6	20408	1.694E-05	5.421E-05	200
122.0	24.3	9595	7.930E-06	2.538E-05	200
122.0	27.0	9336	7.716E-06	2.469E-05	200

AZIMUTH HEIGHT EXPOSURE F/R FU/G DISTANCE TOWER DATA FOLLOW....
 DEGREES METERS GM-SEC/CM X10F+6 SEC/CM 1/SQ,M METERS

C 130.0 0.3 366 3.032E-07 9.701E-07 200
 C 130.0 0.7 861 7.120E-07 2.278E-06 200
 C 130.0 1.4 824 6.814E-07 2.181E-06 200
 C 130.0 2.7 1882 1.556E-06 4.979E-06 200
 130.0 4.1 3853 3.185E-06 1.019E-05 200
 130.0 5.4 8565 7.079E-06 2.265E-05 200
 130.0 6.8 6808 5.627E-06 1.801E-05 200
 130.0 8.1 7755 6.410E-06 2.051E-05 200
 130.0 9.4 4186 3.460E-06 1.107E-05 200
 130.0 10.8 5378 4.445E-06 1.422E-05 200
 130.0 13.5 7676 6.344E-06 2.030E-05 200
 130.0 16.2 5184 4.285E-06 1.371E-05 200
 130.0 18.9 3883 3.210E-06 1.027E-05 200
 130.0 21.6 3661 3.026E-06 9.683E-06 200
 130.0 24.3 1796 1.485E-06 4.751E-06 200
 130.0 27.0 2027 1.676E-06 5.363E-06 200

TEST FT9 JULY 2, 1963 0322 TO 0422 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
 ROOM ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 7M

AZIMUTH EXPOSURE F/R FU/G DISTANCE
 DEGREES GM-SEC/CM SEC/CM 1/SQ,M METERS
 X10E+6

86.0 71 5.885E-08 1.883E-07 800
 88.0 2366 1.956E-06 6.260E-06 800
 90.0 8103 6.697E-06 2.143E-05 800
 92.0 7847 6.465E-06 2.075E-05 800
 94.0 9693 8.011E-06 2.563E-05 800
 96.0 8097 6.692E-06 2.142E-05 800
 98.0 11897 9.833E-06 3.146E-05 800
 100.0 1731 1.431E-06 4.580E-06 800
 102.0 4887 4.040E-06 1.293E-05 800
 104.0 5152 4.258E-06 1.363E-05 800
 106.0 1022 8.451E-07 2.704E-06 800
 108.0 1683 1.391E-06 4.452E-06 800
 110.0 4657 3.849E-06 1.232E-05 800
 112.0 9319 7.702E-06 2.465E-05 800
 114.0 8650 7.149E-06 2.288E-05 800
 116.0 14586 1.205E-05 3.858E-05 800
 118.0 18070 1.493E-05 4.779E-05 800
 120.0 9912 8.192E-06 2.621E-05 800
 122.0 10313 8.524E-06 2.728E-05 800
 124.0 9627 7.957E-06 2.546E-05 800
 126.0 5201 4.298E-06 1.376E-05 800
 128.0 979 8.098E-07 2.591E-06 800

CROSSWIND INTEGRATED= 3.551E-03 1.136E-02
 SEC/SQ,M 1/M

TEST FT9 JULY 2, 1963 0322 TO 0422 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
 ROOM ARC U= 3.2 M/SEC AT 7M

AZIMUTH HEIGHT EXPOSURE F/R FU/G DISTANCE
 DEGREES METERS GM-SEC/CM SEC/CM 1/SQ,M METERS
 X10E+6

98.0 0.3 12737 1.053E-05 3.369E-05 800
 98.0 0.5 11478 9.486E-06 3.036E-05 800
 98.0 1.0 7555 6.244E-06 1.998E-05 800
 98.0 2.1 8389 6.933E-06 2.219E-05 800
 98.0 4.2 6107 5.048E-06 1.615E-05 800
 98.0 6.3 6752 5.580E-06 1.786E-05 800
 98.0 8.4 12466 1.030E-05 3.297E-05 800
 98.0 10.5 14296 1.182E-05 3.781E-05 800
 98.0 12.6 14520 1.206E-05 3.840E-05 800
 98.0 14.7 12694 1.049E-05 3.357E-05 800
 98.0 16.8 8270 6.835E-06 2.187E-05 800
 98.0 21.0 6102 5.043E-06 1.614E-05 800
 98.0 25.2 4094 3.384E-06 1.083E-05 800
 98.0 29.4 2799 2.314E-06 7.405E-06 800
 98.0 33.6 1901 1.605E-06 5.135E-06 800
 98.0 37.8 1669 1.380E-06 4.416E-06 800
 98.0 42.0 1452 1.366E-06 4.371E-06 800

AZIMUTH HEIGHT EXPOSURE F/R FU/G DISTANCE
 DEGREES METERS GM-SEC/CM SEC/CM 1/SQ,M METERS
 X10F+6

106.0 0.3 963 7.963E-07 2.588E-06 800
 106.0 0.5 953 7.883E-07 2.522E-06 800
 106.0 1.0 702 5.809E-07 1.859E-06 800
 106.0 2.1 824 6.817E-07 2.182E-06 800
 106.0 4.2 1032 8.533E-07 2.731E-06 800
 106.0 6.3 1139 9.421E-07 3.015E-06 800
 106.0 8.4 675 5.583E-07 1.787E-06 800
 106.0 10.5 866 7.164E-07 2.292E-06 800
 106.0 12.6 1087 8.653E-07 2.769E-06 800
 106.0 14.7 1230 1.017E-06 3.255E-06 800
 106.0 16.8 1047 8.653E-07 2.769E-06 800
 106.0 21.0 875 7.239E-07 2.316E-06 800
 106.0 25.2 569 4.705E-07 1.506E-06 800
 106.0 29.4 558 4.612E-07 1.476E-06 800
 106.0 33.6 516 4.272E-07 1.367E-06 800
 106.0 37.8 257 2.430E-07 6.817E-07 800
 106.0 42.0 291 2.411E-07 7.716E-07 800

AZIMUTH HEIGHT EXPOSURE F/R FU/G DISTANCE
 DEGREES METERS GM-SEC/CM SEC/CM 1/SQ,M METERS
 X10F+6

114.0 0.3 8961 7.406E-06 2.378E-05 800
 114.0 0.5 8717 7.205E-06 2.305E-05 800
 114.0 1.0 6016 4.972E-06 1.591E-05 800
 114.0 2.1 7540 6.232E-06 1.994E-05 800
 114.0 4.2 6713 5.949E-06 1.776E-05 800
 114.0 6.3 8077 6.676E-06 2.136E-05 800
 114.0 8.4 6799 5.615E-06 1.798E-05 800
 114.0 10.5 8247 6.816E-06 2.181E-05 800
 114.0 12.6 7136 5.899E-06 1.887E-05 800
 114.0 14.7 5925 4.897E-06 1.567E-05 800
 114.0 16.8 6666 5.510E-06 1.763E-05 800
 114.0 21.0 4774 3.946E-06 1.263E-05 800
 114.0 25.2 2838 2.344E-06 7.506E-06 800
 114.0 29.4 2508 2.073E-06 6.633E-06 800
 114.0 33.6 1795 1.484E-06 4.749E-06 800
 114.0 37.8 1175 9.715E-07 3.109E-06 800
 114.0 42.0 936 7.737E-07 2.476E-06 800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/R SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
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122.0	0.3	7420	6.299E-06	2.015E-05	800
122.0	0.5	7600	6.295E-06	2.011E-05	800
122.0	1.0	4607	3.807E-06	1.218E-05	800
122.0	2.1	4090	5.037E-06	1.612E-05	800
122.0	4.2	4248	3.511E-06	1.124E-05	800
122.0	6.3	5600	4.632E-06	1.482E-05	800
122.0	8.4	8063	6.660E-06	2.132E-05	800
122.0	10.5	6977	5.767E-06	1.845E-05	800
122.0	12.6	5801	4.828E-06	1.505E-05	800
122.0	14.7	6919	5.735E-06	1.835E-05	800
122.0	16.8	6761	5.588E-06	1.788E-05	800
122.0	21.0	7130	5.896E-06	1.887E-05	800
122.0	25.2	4159	3.438E-06	1.100E-05	800
122.0	29.4	3876	3.204E-06	1.025E-05	800
122.0	33.6	2464	2.040E-06	6.528E-06	800
122.0	37.8	2111	1.785E-06	5.585E-06	800
122.0	42.0	1463	1.205E-06	3.869E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/R SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
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130.0	0.3	61	5.112E-08	1.636E-07	800
130.0	0.5	45	5.381E-08	1.722E-07	800
130.0	1.0	72	6.020E-08	1.926E-07	800
130.0	2.1	56	4.665E-08	1.493E-07	800
130.0	4.2	123	1.023E-07	3.275E-07	800
130.0	6.3	56	4.665E-08	1.493E-07	800
130.0	8.4	36	3.010E-08	9.632E-08	800
130.0	10.5	136	1.129E-07	3.612E-07	800
130.0	12.6	71	5.869E-08	1.878E-07	800
130.0	14.7	40	3.311E-08	1.059E-07	800
130.0	16.8	118	9.782E-08	3.130E-07	800
130.0	21.0	23	1.956E-08	6.261E-08	800
130.0	25.2	69	5.735E-08	1.835E-07	800
130.0	29.4	1	1.170E-09	3.746E-09	800
130.0	33.6	24	1.990E-08	6.367E-08	800
130.0	37.8	15	1.288E-08	4.120E-08	800
130.0	42.0	36	3.043E-08	9.738E-08	800

TEST FT9 JULY 2, 1963 0322 TO 0422 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/R SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
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92.0	77	6.436E-08	2.059E-07	1600
93.0	622	5.148E-07	1.648E-06	1600
94.0	2061	1.704E-06	5.452E-06	1600
95.0	4047	3.345E-06	1.070E-05	1600
96.0	6996	5.782E-06	1.850E-05	1600
97.0	8707	7.196E-06	2.303E-05	1600
98.0	6981	5.770E-06	1.846E-05	1600
99.0	6065	5.013E-06	1.604E-05	1600
100.0	2704	2.236E-06	7.154E-06	1600
101.0	1456	1.204E-06	3.853E-06	1600
102.0	1014	8.383E-07	2.683E-06	1600
103.0	1475	1.219E-06	3.902E-06	1600
104.0	170	1.406E-07	4.498E-07	1600
105.0	799	6.605E-07	2.114E-06	1600
106.0	676	5.589E-07	1.788E-06	1600
107.0	854	7.062E-07	2.260E-06	1600
108.0	944	7.807E-07	2.498E-06	1600
109.0	711	5.877E-07	1.881E-06	1600
110.0	641	5.301E-07	1.696E-06	1600
111.0	797	6.588E-07	2.108E-06	1600
112.0	1711	1.414E-06	4.525E-06	1600
113.0	2993	2.474E-06	7.918E-06	1600
114.0	3844	3.177E-06	1.017E-05	1600
115.0	5200	4.298E-06	1.375E-05	1600
116.0	5092	4.209E-06	1.347E-05	1600
117.0	3614	2.987E-06	9.560E-06	1600
118.0	4577	3.783E-06	1.211E-05	1600
119.0	3422	2.828E-06	9.050E-06	1600
120.0	2202	1.821E-06	5.826E-06	1600
121.0	1719	1.421E-06	4.547E-06	1600
122.0	954	7.892E-07	2.525E-06	1600
123.0	3567	2.949E-06	9.435E-06	1600
124.0	3592	2.969E-06	9.500E-06	1600
125.0	2260	1.868E-06	5.978E-06	1600
126.0	1096	9.061E-07	2.899E-06	1600
127.0	469	3.878E-07	1.241E-06	1600
128.0	133	1.101E-07	3.523E-07	1600

CROSSWIND INTEGRATED= 2.175E-03 6.961E-03
SEC/SQ.M 1/M

TOWER DATA FOLLOW...

TEST F19 JULY 2, 1963 0322 TO 0422 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC U= 3.2 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/R SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
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98.0	0.2	6391	5.282E-06	1.690E-05	1600
98.0	0.4	7292	6.027E-06	1.929E-05	1600
98.0	0.8	7485	6.187E-06	1.980E-05	1600
98.0	1.5	5388	4.453E-06	1.425E-05	1600
98.0	3.1	5840	4.513E-06	1.444E-05	1600
98.0	6.2	4888	5.362E-06	1.716E-05	1600
98.0	9.3	5192	4.292E-06	1.373E-05	1600
98.0	12.4	4825	3.988E-06	1.276E-05	1600
98.0	15.5	2891	2.390E-06	7.648E-06	1600
98.0	18.6	3664	3.029E-06	9.692E-06	1600
98.0	21.7	3126	2.584E-06	8.268E-06	1600
98.0	24.8	1728	1.429E-06	4.571E-06	1600
98.0	31.0	15	1.256E-08	4.018E-08	1600
98.0	37.2	1065	8.809E-07	2.819E-06	1600
98.0	43.4	822	6.800E-07	2.176E-06	1600
98.0	49.6	403	3.337E-07	1.068E-06	1600
98.0	55.8	291	2.082E-07	6.663E-07	1600
98.0	62.0	144	1.195E-07	3.824E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SG,M	DISTANCE METERS
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Z	106.0	0.2	502	4.152E-07	1.329E-06	1600
	106.0	0.4	648	5.358E-07	1.715E-06	1600
	106.0	0.8	575	4.755E-07	1.522E-06	1600
	106.0	1.5	396	3.277E-07	1.049E-06	1600
	106.0	3.1	529	4.378E-07	1.401E-06	1600
	106.0	6.2	483	3.995E-07	1.278E-06	1600
	106.0	9.3	726	6.005E-07	1.921E-06	1600
	106.0	12.4	635	5.251E-07	1.680E-06	1600
Z	106.0	15.5	797	6.591E-07	2.109E-06	1600
	106.0	18.6	10	2.512E-08	8.038E-08	1600
	106.0	21.7	603	4.988E-07	1.596E-06	1600
	106.0	24.8	435	3.603E-07	1.153E-06	1600
	106.0	31.0	249	2.395E-07	7.665E-07	1600
	106.0	37.2	212	1.758E-07	5.625E-07	1600
Z	106.0	43.4	12	1.062E-08	3.400E-08	1600
	106.0	49.6	63	5.250E-08	1.680E-07	1600
	106.0	55.8	34	2.836E-08	9.076E-08	1600
	106.0	62.0	12	1.026E-08	3.283E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SG,M	DISTANCE METERS
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	114.0	0.2	2883	2.383E-06	7.625E-06	1600
	114.0	0.4	2614	2.161E-06	6.915E-06	1600
	114.0	0.8	3123	2.581E-06	8.261E-06	1600
	114.0	1.5	2531	2.092E-06	6.695E-06	1600
	114.0	3.1	2741	2.265E-06	7.250E-06	1600
	114.0	6.2	2568	2.123E-06	6.790E-06	1600
	114.0	9.3	2941	2.472E-06	7.912E-06	1600
	114.0	12.4	2907	2.403E-06	7.690E-06	1600
	114.0	15.5	2144	1.805E-06	5.776E-06	1600
	114.0	18.6	2005	1.658E-06	5.305E-06	1600
	114.0	21.7	1974	1.632E-06	5.221E-06	1600
	114.0	24.8	1410	1.166E-06	3.731E-06	1600
	114.0	31.0	1226	1.013E-06	3.242E-06	1600
	114.0	37.2	853	7.051E-07	2.256E-06	1600
	114.0	43.4	463	3.835E-07	1.227E-06	1600
	114.0	49.6	162	1.346E-07	4.307E-07	1600
	114.0	55.8	107	8.871E-08	2.839E-07	1600
	114.0	62.0	41	6.699E-08	2.144E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/O SEC/CM ²	EU/O 1/SG,M	DISTANCE METERS
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P	122.0	0.2	757	6.263E-07	2.009E-06	1600
P	122.0	0.4	676	5.589E-07	1.788E-06	1600
	122.0	1.5	1988	1.643E-06	5.259E-06	1600
	122.0	3.1	1851	1.536E-06	4.896E-06	1600
	122.0	6.2	1978	1.635E-06	5.232E-06	1600
	122.0	9.3	2713	2.243E-06	7.177E-06	1600
	122.0	12.4	2024	1.673E-06	5.355E-06	1600
	122.0	15.5	2127	1.758E-06	5.627E-06	1600
	122.0	18.6	1474	1.219E-06	3.900E-06	1600
	122.0	21.7	2059	1.702E-06	5.447E-06	1600
	122.0	24.8	1141	9.437E-07	3.020E-06	1600
	122.0	31.0	1472	1.217E-06	3.895E-06	1600
	122.0	37.2	1492	1.233E-06	3.947E-06	1600
	122.0	43.4	1100	9.099E-07	2.912E-06	1600
	122.0	49.6	476	3.935E-07	1.259E-06	1600
	122.0	55.8	314	2.601E-07	8.323E-07	1600
	122.0	62.0	129	1.068E-07	3.418E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/O SEC/CM ²	EU/O 1/SG,M	DISTANCE METERS
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	130.0	21.7	24	2.033E-08	6.507E-08	1600
	130.0	31.0	17	1.449E-08	4.636E-08	1600

TEST #19 JULY 2, 1963 0322 TO 0422 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M APC SAMPLER HT 1.5M U= 3.2 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/O SEC/CM ²	EU/O 1/SG,M	DISTANCE METERS
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	80.0	18	1.525E-08	4.878E-08	3200
	99.0	33	2.728E-08	8.730E-08	3200
	100.0	199	1.645E-07	5.264E-07	3200
	101.0	867	7.173E-07	2.295E-06	3200
	102.0	1712	1.415E-06	4.529E-06	3200
	103.0	1327	1.097E-06	3.510E-06	3200
	104.0	637	5.272E-07	1.687E-06	3200
	105.0	638	5.280E-07	1.689E-06	3200
	107.0	431	3.563E-07	1.140E-06	3200
	108.0	347	2.873E-07	9.192E-07	3200
	109.0	296	2.447E-07	7.831E-07	3200
	110.0	259	2.142E-07	6.855E-07	3200
	111.0	221	1.829E-07	5.854E-07	3200
	112.0	325	2.688E-07	8.601E-07	3200
	113.0	498	4.116E-07	1.317E-06	3200
	114.0	687	5.681E-07	1.818E-06	3200
	115.0	712	5.889E-07	1.885E-06	3200
	116.0	1147	9.484E-07	3.035E-06	3200
	117.0	1241	1.026E-06	3.284E-06	3200
	118.0	1403	1.160E-06	3.713E-06	3200
	119.0	1333	1.102E-06	3.528E-06	3200
	120.0	1167	9.653E-07	3.089E-06	3200
	121.0	1017	8.409E-07	2.691E-06	3200
Z	122.0	0	0.000E+00	0.000E+00	3200
	123.0	1321	1.092E-06	3.495E-06	3200
	124.0	1577	1.304E-06	4.172E-06	3200
	125.0	892	7.374E-07	2.360E-06	3200
	126.0	438	3.627E-07	1.161E-06	3200
	127.0	105	8.746E-08	2.799E-07	3200
	128.0	31	2.568E-08	8.216E-08	3200
	129.0	15	1.284E-08	4.108E-08	3200

CROSSHAIR INTEGRATED= 1.019E-03 SEC/SG,M 3.260E-03 1/M

FLOWER DATA FOLLOWS...

TEST #19 JULY 2, 1963 0322 TO 0422 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M APC U= 3.2 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/O SEC/CM ²	EU/O 1/SG,M	DISTANCE METERS
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	98.0	6.2	58	4.842E-08	1.550E-07	3200
	98.0	9.3	11	9.825E-09	3.144E-08	3200
	98.0	12.4	7	6.316E-09	2.021E-08	3200
	98.0	15.5	24	2.035E-08	6.512E-08	3200
	98.0	18.6	19	1.614E-08	5.165E-08	3200
	98.0	21.7	21	1.754E-08	5.614E-08	3200
	98.0	24.8	7	6.130E-09	1.962E-08	3200
	98.0	31.0	7	6.130E-09	1.962E-08	3200
	98.0	37.2	12	1.042E-08	3.335E-08	3200
	98.0	43.4	14	1.226E-08	3.923E-08	3200
	98.0	49.6	14	1.224E-08	3.933E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10F+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.4	489	4.044E-07	1.294E-06	3200
106.0	0.8	333	2.755E-07	8.816E-07	3200
106.0	1.5	378	3.130E-07	1.002E-06	3200
106.0	3.1	455	3.769E-07	1.204E-06	3200
106.0	6.2	416	3.446E-07	1.103E-06	3200
106.0	9.3	508	4.204E-07	1.345E-06	3200
106.0	18.6	600	4.962E-07	1.588E-06	3200
106.0	21.7	435	3.600E-07	1.152E-06	3200
106.0	24.8	308	2.550E-07	8.160E-07	3200
106.0	31.0	324	2.685E-07	8.592E-07	3200
106.0	37.2	324	2.697E-07	8.631E-07	3200
106.0	43.4	231	1.913E-07	6.120E-07	3200
106.0	49.6	113	9.378E-08	3.001E-07	3200
106.0	55.8	135	1.120E-07	3.584E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10F+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.2	603	4.988E-07	1.596E-06	3200
114.0	0.4	559	4.625E-07	1.480E-06	3200
114.0	0.8	544	4.499E-07	1.440E-06	3200
114.0	1.5	578	4.779E-07	1.529E-06	3200
114.0	3.1	553	4.578E-07	1.464E-06	3200
114.0	9.3	703	5.818E-07	1.862E-06	3200
114.0	15.5	558	4.618E-07	1.478E-06	3200
114.0	18.6	631	5.221E-07	1.671E-06	3200
114.0	21.7	512	4.239E-07	1.356E-06	3200
114.0	24.8	419	3.463E-07	1.108E-06	3200
114.0	31.0	327	2.703E-07	8.651E-07	3200
114.0	37.2	314	2.599E-07	8.317E-07	3200
114.0	43.4	232	1.925E-07	6.159E-07	3200
114.0	49.6	150	1.247E-07	3.992E-07	3200
114.0	55.8	86	7.147E-08	2.287E-07	3200
114.0	62.0	57	4.735E-08	1.515E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10F+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
122.0	0.2	820	6.782E-07	2.170E-06	3200
Z 122.0	0.4	351	2.907E-07	9.301E-07	3200
122.0	0.8	977	8.080E-07	2.585E-06	3200
122.0	1.5	997	8.246E-07	2.639E-06	3200
122.0	3.1	1235	1.021E-06	3.267E-06	3200
122.0	6.2	1255	1.038E-06	3.321E-06	3200
122.0	9.3	1429	1.182E-06	3.782E-06	3200
7 122.0	12.4	29	2.456E-08	7.860E-08	3200
122.0	15.5	1401	1.159E-06	3.708E-06	3200
122.0	18.6	1171	9.685E-07	3.099E-06	3200
122.0	21.7	1328	1.098E-06	3.515E-06	3200
122.0	24.8	884	7.307E-07	2.338E-06	3200
122.0	31.0	920	7.607E-07	2.434E-06	3200
122.0	37.2	875	7.240E-07	2.317E-06	3200
122.0	43.4	876	7.246E-07	2.319E-06	3200
122.0	49.6	339	2.804E-07	8.974E-07	3200
122.0	62.0	271	2.244E-07	7.182E-07	3200

SERIES '63 EXPERIMENT: 10 (FT-10)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS.

TEST FT10 JULY 11, 1963 0221 TO 0300 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
68.0	691	1.844E-06	4.793E-06	200
70.0	906	2.417E-06	6.285E-06	200
72.0	420	1.123E-06	2.919E-06	200
74.0	1603	4.277E-06	1.112E-05	200
76.0	3975	1.060E-05	2.757E-05	200
78.0	3109	8.292E-06	2.156E-05	200
80.0	2286	6.096E-06	1.585E-05	200
82.0	4246	1.132E-05	2.944E-05	200
84.0	3899	1.040E-05	2.703E-05	200
86.0	2946	7.858E-06	2.043E-05	200
88.0	3398	9.082E-06	2.356E-05	200
90.0	2160	5.760E-06	1.498E-05	200
92.0	4983	1.329E-05	3.455E-05	200
94.0	10394	2.772E-05	7.207E-05	200
96.0	12109	3.229E-05	8.396E-05	200
98.0	9389	2.504E-05	6.510E-05	200
100.0	4701	1.254E-05	3.259E-05	200
102.0	6560	1.749E-05	4.548E-05	200
104.0	2550	6.801E-06	1.768E-05	200
106.0	602	1.606E-06	4.175E-06	200
108.0	153	4.097E-07	1.065E-06	200

CROSSWIND INTEGRATED= 1.510E-03 3.925E-03
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST FT10 JULY 11, 1963 0221 TO 0300 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC U= 2.6 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
98.0	0.3	8658	2.309E-05	6.003E-05	200
98.0	0.7	8059	2.140E-05	5.588E-05	200
98.0	1.4	7151	1.907E-05	4.958E-05	200
98.0	2.7	6397	1.706E-05	4.435E-05	200
98.0	4.1	12233	3.262E-05	8.482E-05	200
98.0	5.4	15869	4.232E-05	1.100E-04	200
98.0	6.8	19541	5.211E-05	1.355E-04	200
98.0	8.1	12082	8.555E-05	2.224E-04	200
98.0	9.4	42322	1.124E-04	2.939E-04	200
98.0	10.8	61201	1.632E-04	4.243E-04	200
98.0	13.5	74941	1.998E-04	5.196E-04	200
98.0	16.2	75606	2.017E-04	5.245E-04	200
98.0	18.9	39834	1.036E-04	2.693E-04	200
98.0	21.6	18937	5.050E-05	1.313E-04	200
98.0	24.3	7111	5.630E-06	1.464E-05	200
98.0	27.0	819	2.186E-06	5.683E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
106.0	0.3	693	1.849E-06	4.806E-06	200
106.0	0.7	558	1.498E-06	3.873E-06	200
106.0	1.4	592	1.580E-06	4.109E-06	200
106.0	2.7	814	2.173E-06	5.649E-06	200
106.0	4.1	1708	4.555E-06	1.184E-05	200
106.0	5.4	2673	7.129E-06	1.854E-05	200
106.0	6.8	3618	9.649E-06	2.509E-05	200
106.0	8.1	7081	1.888E-05	4.910E-05	200
106.0	9.4	13128	3.501E-05	9.103E-05	200
106.0	10.8	33137	8.837E-05	2.298E-04	200
106.0	13.5	57554	1.535E-04	3.990E-04	200
106.0	16.2	46806	1.251E-04	3.252E-04	200
106.0	18.9	25234	6.729E-05	1.750E-04	200
106.0	21.6	5330	1.422E-05	3.696E-05	200
106.0	24.3	915	2.442E-06	6.349E-06	200
106.0	27.0	155	4.155E-07	1.080E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
122.0	4.1	85	9.577E-08	2.490E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
130.0	10.8	71	1.915E-07	4.980E-07	200

TEST FT10 JULY 11, 1963 0221 TO 0300 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
ROOM ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
70.0	32	8.718E-08	2.267E-07	800
72.0	118	3.170E-07	8.243E-07	800
74.0	1622	4.328E-06	1.125E-05	800
76.0	900	2.402E-06	6.244E-06	800
78.0	1569	4.185E-06	1.088E-05	800
80.0	3400	9.067E-06	2.357E-05	800
82.0	4009	1.069E-05	2.780E-05	800
84.0	5231	1.395E-05	3.627E-05	800
86.0	6797	1.813E-05	4.713E-05	800
88.0	9760	2.603E-05	6.767E-05	800
90.0	6884	1.837E-05	4.777E-05	800
92.0	5584	1.489E-05	3.872E-05	800
94.0	18207	4.855E-05	1.262E-04	800
96.0	5311	1.416E-05	3.683E-05	800
98.0	14979	3.995E-05	1.039E-04	800
100.0	1432	3.820E-06	9.933E-06	800
102.0	8678	2.314E-05	6.017E-05	800
104.0	3702	9.979E-06	2.594E-05	800
106.0	398	1.062E-06	2.761E-06	800

CROSSWIND INTEGRATED= 7.348E-03 1.910E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW+....

TEST F110 JULY 11, 1963 0221 TO 0300 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
FROM APC U= 2.6 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	FU/Q 1/SEC.M	DISTANCE METERS
98.0	0.3	11735	3.129E-05	8.136E-05	800
98.0	0.5	11963	3.190E-05	8.294E-05	800
98.0	1.0	8831	2.142E-05	5.549E-05	800
98.0	2.1	12015	3.204E-05	8.331E-05	800
98.0	4.2	13698	3.653E-05	9.498E-05	800
98.0	6.3	12641	3.371E-05	8.765E-05	800
98.0	8.4	16762	4.470E-05	1.162E-04	800
98.0	10.5	15702	4.187E-05	1.089E-04	800
98.0	12.6	25377	4.767E-05	1.260E-04	800
98.0	14.7	22741	4.070E-05	1.578E-04	800
98.0	16.8	19302	5.147E-05	1.338E-04	800
98.0	21.0	9822	2.619E-05	6.810E-05	800
98.0	25.2	4344	1.159E-05	3.012E-05	800
98.0	29.4	2628	7.009E-06	1.822E-05	800
98.0	33.6	1953	5.209E-06	1.354E-05	800
98.0	37.8	1530	4.080E-06	1.061E-05	800
98.0	42.0	939	2.505E-06	6.514E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	FU/Q 1/SEC.M	DISTANCE METERS
106.0	0.3	81	2.170E-07	5.642E-07	800
106.0	0.5	234	6.250E-07	1.625E-06	800
106.0	1.0	221	5.906E-07	1.536E-06	800
106.0	2.1	330	8.801E-07	2.288E-06	800
106.0	4.2	1068	2.840E-06	7.407E-06	800
106.0	6.3	2698	7.197E-06	1.871E-05	800
106.0	8.4	6335	1.690E-05	4.393E-05	800
106.0	10.5	7234	1.929E-05	5.016E-05	800
106.0	12.6	10782	2.875E-05	7.474E-05	800
106.0	14.7	11607	3.095E-05	8.048E-05	800
106.0	16.8	10259	2.736E-05	7.113E-05	800
106.0	21.0	5536	1.476E-05	3.839E-05	800
106.0	25.2	2027	5.007E-06	1.406E-05	800
106.0	29.4	1063	2.836E-06	7.373E-06	800
106.0	33.6	371	9.911E-07	2.577E-06	800
106.0	37.8	103	2.753E-07	7.158E-07	800
106.0	42.0	139	3.579E-07	9.105E-07	800

TOWER DATA FOLLOW+....

TEST F110 JULY 11, 1963 0221 TO 0300 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M APC SAMPLER HT 1.5M U= 2.6 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	FU/Q 1/SEC.M	DISTANCE METERS
98.0	0.2	1203	3.210E-06	8.346E-06	1600
98.0	0.4	1471	3.925E-06	1.021E-05	1600
98.0	0.8	1616	4.310E-06	1.121E-05	1600
98.0	1.5	1317	3.514E-06	9.137E-06	1600
98.0	3.1	1802	4.913E-06	1.277E-05	1600
98.0	6.2	3523	9.395E-06	2.443E-05	1600
98.0	9.3	5922	1.579E-05	4.106E-05	1600
98.0	12.4	9104	2.428E-05	6.312E-05	1600
98.0	15.5	13168	3.512E-05	9.130E-05	1600
98.0	18.6	15441	4.112E-05	1.071E-04	1600
98.0	21.7	11697	3.119E-05	8.110E-05	1600
98.0	24.8	10562	2.817E-05	7.323E-05	1600
98.0	31.0	3694	9.853E-06	2.562E-05	1600
98.0	37.2	1544	4.119E-06	1.071E-05	1600
98.0	43.4	827	2.208E-06	5.740E-06	1600
98.0	49.6	316	8.428E-07	2.191E-06	1600
98.0	55.8	201	5.376E-07	1.398E-06	1600
98.0	62.0	89	2.393E-07	6.222E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SEC	DISTANCE METERS
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106.0	0.2	4	1.803E-08	4.689E-08	1600
106.0	0.8	13	3.607E-08	9.377E-08	1600
106.0	1.5	20	5.376E-08	1.399E-07	1600
106.0	3.1	5	1.305E-08	3.494E-08	1600
106.0	6.2	4	2.201E-08	5.827E-08	1600
106.0	9.3	11	3.134E-08	8.158E-08	1600
106.0	12.4	257	6.724E-07	1.748E-06	1600
106.0	15.5	576	1.538E-06	3.998E-06	1600
106.0	18.6	2716	7.244E-06	1.883E-05	1600
106.0	21.7	3284	8.759E-06	2.277E-05	1600
106.0	24.8	2515	6.709E-06	1.744E-05	1600
106.0	31.0	702	1.873E-06	4.869E-06	1600
106.0	37.2	173	4.639E-07	1.206E-06	1600
106.0	43.4	33	9.019E-08	2.305E-07	1600
106.0	49.6	94	2.532E-07	6.583E-07	1600
106.0	55.8	52	1.387E-07	3.607E-07	1600
106.0	62.0	54	1.457E-07	3.777E-07	1600

TFST FT10 JULY 11, 1963 0221 TO 0300 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SEC	DISTANCE METERS
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71.0	134	3.599E-07	9.357E-07	3200
72.0	167	4.479E-07	1.165E-06	3200
73.0	314	8.388E-07	2.181E-06	3200
74.0	420	1.121E-06	2.915E-06	3200
75.0	435	1.162E-06	3.022E-06	3200
76.0	371	9.916E-07	2.578E-06	3200
77.0	422	1.126E-06	2.928E-06	3200
78.0	418	1.116E-06	2.901E-06	3200
79.0	621	1.657E-06	4.308E-06	3200
80.0	721	1.924E-06	5.001E-06	3200
81.0	955	2.548E-06	6.624E-06	3200
82.0	1127	3.006E-06	7.815E-06	3200
83.0	1554	4.145E-06	1.078E-05	3200
84.0	961	2.563E-06	6.664E-06	3200
85.0	1440	3.802E-06	9.989E-06	3200
86.0	1818	4.849E-06	1.261E-05	3200
87.0	1974	5.266E-06	1.369E-05	3200
88.0	2233	5.957E-06	1.549E-05	3200
89.0	1923	5.129E-06	1.333E-05	3200
90.0	1999	5.333E-06	1.387E-05	3200
91.0	1801	4.805E-06	1.249E-05	3200
92.0	1794	4.784E-06	1.244E-05	3200
93.0	1720	4.588E-06	1.193E-05	3200
94.0	1344	3.586E-06	9.323E-06	3200
95.0	732	1.952E-06	5.075E-06	3200
96.0	737	1.968E-06	5.116E-06	3200
97.0	588	1.569E-06	4.079E-06	3200
98.0	447	1.194E-06	3.103E-06	3200
99.0	139	3.728E-07	9.693E-07	3200
100.0	123	3.288E-07	8.549E-07	3200
101.0	23	6.214E-08	1.616E-07	3200
102.0	35	9.579E-08	2.491E-07	3200
103.0	25	6.731E-08	1.750E-07	3200
104.0	31	8.285E-08	2.154E-07	3200
105.0	9	2.589E-08	6.731E-08	3200
106.0	16	4.401E-08	1.144E-07	3200
107.0	14	3.883E-08	1.010E-07	3200
108.0	32	8.544E-08	2.221E-07	3200

CROSSWIND INTEGRATED= 0.426E-03 1.151E-02
SEC/SEC 1/M

SERIES '63 EXPERIMENT: 11 (FT-11)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS.

TEST FT11 JULY 16, 1963 0300 TO 0341 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC SAMPLER HT 1.5M U= 2.9 M/SFC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/C SEC/CM ²	EU/C 1/SQ.M	DISTANCE METERS
72.0	41	1.044E-07	3.028E-07	200	
74.0	64	1.606E-07	4.658E-07	200	
76.0	35	8.834E-08	2.562E-07	200	
86.0	195	4.899E-07	1.421E-06	200	
88.0	481	1.205E-06	3.493E-06	200	
90.0	1461	3.654E-06	1.060E-05	200	
92.0	3263	8.159E-06	2.366E-05	200	
94.0	6745	1.686E-05	4.891E-05	200	
96.0	11239	2.810E-05	8.149E-05	200	
98.0	13029	3.257E-05	9.446E-05	200	
100.0	20247	5.062E-05	1.468E-04	200	
102.0	16700	4.175E-05	1.211E-04	200	
104.0	8849	2.212E-05	6.416E-05	200	
106.0	4153	1.038E-05	3.011E-05	200	
108.0	2296	5.742E-06	1.665E-05	200	
110.0	144	3.614E-07	1.048E-06	200	

CROSSWIND INTEGRATED= 1.561E-03 4.526E-03
SEC/SQ.M 1/M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/C SEC/CM ²	EU/C 1/SQ.M	DISTANCE METERS
106.0	0.3	2675	6.688E-06	1.940E-05	200
106.0	0.7	3846	9.616E-06	2.789E-05	200
106.0	1.4	3028	7.572E-06	2.196E-05	200
106.0	2.7	4592	1.148E-05	3.330E-05	200
106.0	4.1	9179	2.295E-05	6.655E-05	200
106.0	5.4	14896	3.724E-05	1.080E-04	200
106.0	6.8	16192	4.048E-05	1.174E-04	200
106.0	8.1	32517	8.129E-05	2.358E-04	200
106.0	9.4	52636	1.316E-04	3.816E-04	200
106.0	10.8	93402	2.335E-04	6.772E-04	200
106.0	13.5	137451	3.436E-04	9.965E-04	200
106.0	16.2	133928	3.348E-04	9.710E-04	200
106.0	18.9	67942	1.699E-04	4.927E-04	200
106.0	21.6	11858	2.964E-05	8.597E-05	200
106.0	24.3	2057	5.144E-06	1.492E-05	200
106.0	27.0	522	1.307E-06	3.791E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/C SEC/CM ²	EU/C 1/SQ.M	DISTANCE METERS
114.0	2.7	27	6.756E-08	1.959E-07	200
114.0	8.1	40	1.013E-07	2.939E-07	200

TOWER DATA FOLLOW....

TEST FT11 JULY 16, 1963 0300 TO 0341 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC SAMPLER HT 1.5M U= 2.9 M/SFC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/C SEC/CM ²	EU/C 1/SQ.M	DISTANCE METERS
98.0	0.3	12512	3.128E-05	9.071E-05	200
98.0	0.7	13040	3.260E-05	9.454E-05	200
98.0	1.4	8426	2.107E-05	6.109E-05	200
98.0	2.7	13947	3.487E-05	1.011E-04	200
98.0	4.1	17308	4.327E-05	1.255E-04	200
98.0	5.4	40969	1.023E-04	2.966E-04	200
98.0	6.8	56134	1.403E-04	4.070E-04	200
98.0	8.1	95933	2.398E-04	6.955E-04	200
98.0	9.4	132219	3.305E-04	9.586E-04	200
98.0	10.8	152811	3.820E-04	1.108E-03	200
98.0	13.5	164293	4.107E-04	1.191E-03	200
98.0	16.2	93014	2.325E-04	6.744E-04	200
98.0	18.9	25813	6.453E-05	1.871E-04	200
98.0	21.6	6387	1.597E-05	4.631E-05	200
98.0	24.3	1803	4.509E-06	1.308E-05	200
98.0	27.0	416	1.040E-06	3.017E-06	200

TEST FT11 JULY 16, 1963 0300 TO 0341 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC SAMPLER HT 1.5M U= 2.9 M/SFC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/C SEC/CM ²	EU/C 1/SQ.M	DISTANCE METERS
88.0	158	3.962E-07	1.149E-06	800	
90.0	1031	2.579E-06	7.479E-06	800	
92.0	3992	9.982E-06	2.895E-05	800	
94.0	16910	4.278E-05	1.226E-04	800	
96.0	30187	7.547E-05	2.189E-04	800	
98.0	39030	9.758E-05	2.830E-04	800	
100.0	4291	1.073E-05	3.111E-05	800	
102.0	38223	9.556E-05	2.771E-04	800	
104.0	20309	5.077E-05	1.472E-04	800	
106.0	5391	1.348E-05	3.909E-05	800	
108.0	155	3.884E-07	1.126E-06	800	

CROSSWIND INTEGRATED= 1.115E-02 3.233E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW...

TEST FT11 JULY 16, 1963 0300 TO 0341 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC U= 2.9 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SG ²	DISTANCE METERS
98.0	0.3	31882	7.971E-05	2.311E-04	800
98.0	0.5	29421	7.355E-05	2.133E-04	800
98.0	1.0	19063	4.766E-05	1.382E-04	800
98.0	2.1	24361	6.090E-05	1.766E-04	800
98.0	4.2	31923	7.981E-05	2.314E-04	800
98.0	6.3	35812	8.958E-05	2.598E-04	800
98.0	8.4	49801	1.205E-04	3.611E-04	800
98.0	10.5	46378	1.159E-04	3.362E-04	800
98.0	12.6	26073	6.518E-05	1.890E-04	800
98.0	14.7	13976	3.494E-05	1.013E-04	800
98.0	16.8	5714	1.425E-05	4.143E-05	800
98.0	21.0	1269	3.123E-06	9.057E-06	800
98.0	25.2	400	1.010E-06	2.929E-06	800
98.0	29.4	180	4.502E-07	1.306E-06	800
98.0	33.6	185	3.641E-07	1.056E-06	800
98.0	37.8	100	2.623E-07	7.607E-07	800
98.0	42.0	95	2.388E-07	6.926E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SG ²	DISTANCE METERS
106.0	0.3	1087	2.718E-06	7.883E-06	800
106.0	0.5	3160	7.902E-06	2.292E-05	800
106.0	1.0	2307	5.862E-06	1.702E-05	800
106.0	2.1	2786	6.965E-06	2.020E-05	800
106.0	4.2	6300	1.576E-05	4.570E-05	800
106.0	6.3	9007	2.262E-05	6.559E-05	800
106.0	8.4	13792	3.448E-05	9.999E-05	800
106.0	10.5	17935	4.444E-05	1.300E-04	800
106.0	12.6	19875	4.965E-05	1.441E-04	800
106.0	14.7	25778	6.445E-05	1.869E-04	800
106.0	16.8	28713	7.178E-05	2.082E-04	800
106.0	21.0	15433	3.858E-05	1.119E-04	800
106.0	25.2	4986	1.247E-05	3.615E-05	800
106.0	29.4	1910	4.835E-06	1.402E-05	800
106.0	33.6	815	2.040E-06	5.915E-06	800
106.0	37.8	324	8.104E-07	2.350E-06	800
106.0	42.0	114	2.858E-07	8.288E-07	800

TEST FT11 JULY 16, 1963 0300 TO 0341 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC SAMPLER HT 1.5M U= 2.9 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SG ²	DISTANCE METERS
87.0		212	5.313E-07	1.541E-06	1600
88.0		377	9.446E-07	2.739E-06	1600
89.0		558	1.395E-06	4.047E-06	1600
90.0		790	1.975E-06	5.728E-06	1600
91.0		1646	4.116E-06	1.194E-05	1600
92.0		17	4.294E-08	1.245E-07	1600
93.0		4248	1.062E-05	3.080E-05	1600
94.0		8020	2.005E-05	5.815E-05	1600
95.0		10804	2.701E-05	7.834E-05	1600
96.0		12945	3.236E-05	9.385E-05	1600
97.0		12560	3.140E-05	9.107E-05	1600
98.0		11053	2.763E-05	8.014E-05	1600
99.0		12088	3.022E-05	8.764E-05	1600
100.0		11725	2.931E-05	8.501E-05	1600
101.0		12084	3.021E-05	8.761E-05	1600
102.0		13544	3.386E-05	9.820E-05	1600
103.0		13181	3.295E-05	9.556E-05	1600
104.0		6150	1.538E-05	4.459E-05	1600
105.0		1665	4.165E-06	1.208E-05	1600
106.0		313	7.836E-07	2.272E-06	1600
107.0		36	9.124E-08	2.646E-07	1600

CROSSWIND INTEGRATED= 9.357E-03 SEC/30.0M 2.713E-02 1/M

TOWER DATA FOLLOW...

TEST FT11 JULY 16, 1963 0300 TO 0341 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC U= 2.9 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SG ²	DISTANCE METERS
114.0	4.2	46	1.167E-07	3.385E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SG ²	DISTANCE METERS
122.0	4.2	28	7.002E-08	2.031E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SG ²	DISTANCE METERS
130.0	4.2	41	1.027E-07	2.978E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SG ²	DISTANCE METERS
98.0	0.2	11730	2.933E-05	8.505E-05	1600
98.0	0.4	12441	3.160E-05	9.165E-05	1600
98.0	0.8	9945	2.491E-05	7.225E-05	1600
98.0	1.5	8309	2.077E-05	6.025E-05	1600
98.0	3.1	9911	2.478E-05	7.186E-05	1600
98.0	6.2	10224	2.556E-05	7.413E-05	1600
98.0	9.3	9721	2.430E-05	7.048E-05	1600
98.0	12.4	8355	2.099E-05	6.058E-05	1600
98.0	15.5	5135	1.284E-05	3.723E-05	1600
98.0	18.6	2895	7.238E-06	2.099E-05	1600
98.0	21.7	1626	4.066E-06	1.179E-05	1600
98.0	24.8	724	1.811E-06	5.252E-06	1600
98.0	31.0	246	6.174E-07	1.791E-06	1600
98.0	37.2	100	2.514E-07	7.292E-07	1600
98.0	43.4	61	1.528E-07	4.430E-07	1600
98.0	49.6	10	2.651E-08	7.669E-08	1600
98.0	55.8	7	1.928E-08	5.592E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/Q SEC/CM. X10E+6	FU/Q 1/SG. X10E+6	DISTANCE METERS	TOWER DATA FOLLOW...
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106.0	0.2	225	5.635E-07	1.634E-06	1600
106.0	0.4	275	6.875E-07	1.994E-06	1600
106.0	0.8	232	5.804E-07	1.683E-06	1600
106.0	1.5	251	6.284E-07	1.822E-06	1600
106.0	3.1	484	1.212E-06	3.516E-06	1600
106.0	6.2	1376	3.441E-06	9.980E-06	1600
106.0	9.3	5042	1.261E-05	3.655E-05	1600
106.0	12.4	8373	1.093E-05	3.171E-05	1600
106.0	15.5	3400	9.101E-06	2.639E-05	1600
106.0	18.6	4419	1.105E-05	3.204E-05	1600
106.0	21.7	5157	1.285E-05	3.739E-05	1600
106.0	24.8	2746	6.865E-06	1.991E-05	1600
106.0	31.0	1180	2.950E-06	8.556E-06	1600
106.0	37.2	425	1.063E-06	3.083E-06	1600
106.0	43.4	45	1.146E-07	3.323E-07	1600
106.0	49.6	35	8.415E-08	2.586E-07	1600
106.0	55.8	46	1.157E-07	3.355E-07	1600
106.0	62.0	12	3.134E-08	9.087E-08	1600

TEST FT11 JULY 16, 1963 0300 TO 0341 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M ARC SAMPLER HI 1.5M U= 2.9 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/Q SEC/CM. X10E+6	FU/Q 1/SG. X10E+6	DISTANCE METERS
86.0	64	1.602E-07	4.646E-07		3200
87.0	103	2.597E-07	7.532E-07		3200
88.0	394	9.854E-07	2.858E-06		3200
89.0	746	1.867E-06	5.413E-06		3200
90.0	797	1.993E-06	5.779E-06		3200
F 91.0	1066	2.665E-06	7.729E-06		3200
F 92.0	1132	2.830E-06	8.207E-06		3200
93.0	1023	2.558E-06	7.419E-06		3200
F 94.0	1121	2.803E-06	8.130E-06		3200
F 95.0	1535	3.840E-06	1.114E-05		3200
F 96.0	3182	7.956E-06	2.307E-05		3200
F 97.0	4149	1.037E-05	3.008E-05		3200
98.0	3733	9.335E-06	2.707E-05		3200
99.0	3725	9.313E-06	2.701E-05		3200
100.0	3122	7.806E-06	2.264E-05		3200
101.0	2936	7.342E-06	2.129E-05		3200
F 102.0	4034	1.009E-05	2.925E-05		3200
F 103.0	3534	8.837E-06	2.563E-05		3200
F 104.0	2452	6.131E-06	1.778E-05		3200
F 105.0	1744	4.362E-06	1.265E-05		3200
106.0	1299	3.250E-06	9.425E-06		3200
107.0	772	1.932E-06	5.603E-06		3200
108.0	251	6.286E-07	1.823E-06		3200
F 109.0	44	1.117E-07	3.238E-07		3200

CROSSWIND INTEGRATED= 6.000E-03 1.740E-02
SEC/90.M 1/M

TEST FT11 JULY 16, 1963 0300 TO 0341 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M ARC U= 2.9 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/Q SEC/CM. X10E+6	FU/Q 1/SG. X10E+6	DISTANCE METERS
98.0	0.2	4025	1.006E-05	2.919E-05	3200
98.0	0.4	4326	1.082E-05	3.137E-05	3200
98.0	0.8	745	1.863E-06	5.403E-06	3200
98.0	1.5	3963	9.909E-06	2.874E-05	3200
98.0	3.1	4693	1.173E-05	3.403E-05	3200
98.0	6.2	4980	1.245E-05	3.611E-05	3200
98.0	9.3	4911	1.228E-05	3.561E-05	3200
98.0	12.4	4325	1.081E-05	3.136E-05	3200
98.0	15.5	3739	9.349E-06	2.711E-05	3200
98.0	18.6	2784	6.961E-06	2.019E-05	3200
98.0	21.7	1613	4.035E-06	1.170E-05	3200
98.0	24.8	683	1.709E-06	4.956E-06	3200
98.0	31.0	112	2.819E-07	8.174E-07	3200
98.0	37.2	27	6.851E-08	1.987E-07	3200
98.0	43.4	18	4.698E-08	1.362E-07	3200
98.0	49.6	10	2.627E-08	7.618E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/Q SEC/CM. X10E+6	FU/Q 1/SG. X10E+6	DISTANCE METERS
106.0	0.2	1406	3.517E-06	1.020E-05	3200
106.0	0.4	1281	3.204E-06	9.290E-06	3200
106.0	0.8	1400	3.502E-06	1.015E-05	3200
106.0	1.5	1373	3.434E-06	9.959E-06	3200
106.0	3.1	1727	4.319E-06	1.252E-05	3200
106.0	6.2	2022	5.057E-06	1.466E-05	3200
106.0	9.3	2331	5.829E-06	1.690E-05	3200
2 106.0	12.4	11	2.797E-08	8.112E-08	3200
106.0	15.5	3969	9.898E-06	2.870E-05	3200
106.0	18.6	3025	7.564E-06	2.193E-05	3200
106.0	21.7	2204	5.511E-06	1.598E-05	3200
106.0	24.8	1164	2.911E-06	8.441E-06	3200
106.0	31.0	260	6.518E-07	1.890E-06	3200
106.0	37.2	150	3.758E-07	1.090E-06	3200
106.0	43.4	105	2.643E-07	7.663E-07	3200
106.0	49.6	44	1.100E-07	3.190E-07	3200
106.0	55.8	24	6.235E-08	1.809E-07	3200

SERIES '63 EXPERIMENT: 12 (FT-12)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS. A SIGNIFICANT
PORTION OF THE PLUME PASSED TO THE NORTH OF THE GRID.

TEST FT12 JULY 18, 1963 0410 TO 0440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CL.M	EU/Q 1/SQ.M	DISTANCE METERS
68.0	8036	2.143E-05	3.857E-05	200
70.0	8958	2.389E-05	4.300E-05	200
72.0	11118	2.965E-05	5.337E-05	200
74.0	19579	5.221E-05	9.398E-05	200
76.0	18589	4.957E-05	8.923E-05	200
78.0	14181	3.782E-05	6.807E-05	200
80.0	13006	3.468E-05	6.243E-05	200
82.0	11855	3.162E-05	5.691E-05	200
84.0	7760	2.069E-05	3.725E-05	200
86.0	3122	8.328E-06	1.499E-05	200
88.0	2705	7.215E-06	1.299E-05	200
90.0	1336	3.563E-06	6.413E-06	200
92.0	1527	4.074E-06	7.334E-06	200
94.0	1298	3.464E-06	6.235E-06	200
96.0	2587	6.901E-06	1.242E-05	200
98.0	3099	8.265E-06	1.468E-05	200
100.0	4866	1.298E-05	2.336E-05	200
102.0	4741	1.264E-05	2.276E-05	200
104.0	4075	1.047E-05	1.956E-05	200
106.0	1914	5.106E-06	9.191E-06	200
108.0	1268	3.383E-06	6.090E-06	200
110.0	329	8.795E-07	1.583E-06	200
112.0	208	5.564E-07	1.002E-06	200
116.0	40	1.077E-07	1.938E-07	200

CROSSWIND INTEGRATED= 2.724E-03 SEC/SQ.M 4.904E-03 1/M

TOWER DATA FOLLOW....

TEST FT12 JULY 18, 1963 0410 TO 0440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC U= 1.8 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CL.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.3	2547	6.794E-06	1.223E-05	200
98.0	0.7	3696	9.856E-06	1.774E-05	200
98.0	1.4	2546	6.845E-06	1.232E-05	200
98.0	2.7	3072	8.194E-06	1.475E-05	200
98.0	4.1	3256	8.644E-06	1.563E-05	200
98.0	5.4	1515	4.040E-06	7.273E-06	200
98.0	6.8	3103	8.277E-06	1.490E-05	200
98.0	8.1	5314	1.417E-05	2.551E-05	200
98.0	9.4	4505	1.202E-05	2.163E-05	200
98.0	10.8	3389	9.038E-06	1.627E-05	200
98.0	13.5	7188	1.917E-05	3.451E-05	200
98.0	16.2	9006	2.402E-05	4.323E-05	200
98.0	18.9	6204	1.665E-05	2.997E-05	200
98.0	21.6	8189	2.144E-05	3.931E-05	200
98.0	24.3	5052	1.347E-05	2.425E-05	200
98.0	27.0	2646	7.057E-06	1.279E-05	200

TEST FT12 JULY 18, 1963 0410 TO 0440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CL.M	EU/Q 1/SQ.M	DISTANCE METERS
70.0	7933	2.115E-05	3.808E-05	800
72.0	9173	2.486E-05	4.403E-05	800
74.0	6474	1.727E-05	3.108E-05	800
76.0	8164	2.177E-05	3.919E-05	800
78.0	7968	2.125E-05	3.825E-05	800
80.0	5667	1.511E-05	2.720E-05	800
82.0	5804	1.548E-05	2.786E-05	800
84.0	4889	1.304E-05	2.347E-05	800
86.0	2168	5.781E-06	1.041E-05	800
88.0	817	2.179E-06	3.922E-06	800
90.0	117	3.125E-07	5.625E-07	800

CROSSWIND INTEGRATED= 4.407E-03 SEC/SQ.M 7.932E-03 1/M

TOWER DATA FOLLOW....

TEST FT12 JULY 18, 1963 0410 TO 0440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC U= 1.8 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CL.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.3	51	1.367E-07	2.461E-07	800
98.0	0.5	10	2.734E-08	4.922E-08	800
98.0	1.0	13	3.646E-08	6.563E-08	800
98.0	2.1	2	7.292E-09	1.313E-08	800
98.0	4.2	43	1.167E-07	2.100E-07	800
98.0	6.3	87	2.333E-07	4.200E-07	800
98.0	8.4	270	7.219E-07	1.299E-06	800
98.0	10.5	607	1.619E-06	2.914E-06	800
98.0	12.6	1066	2.844E-06	5.119E-06	800
98.0	14.7	1594	4.251E-06	7.652E-06	800
98.0	16.8	1181	3.150E-06	5.670E-06	800
98.0	21.0	1151	3.070E-06	5.526E-06	800
98.0	25.2	759	2.026E-06	3.648E-06	800
98.0	29.4	383	1.023E-06	1.842E-06	800
98.0	33.6	396	1.057E-06	1.903E-06	800
98.0	37.8	229	6.127E-07	1.103E-06	800
98.0	42.0	335	8.954E-07	1.612E-06	800

TEST FT12 JULY 18, 1963 0410 TO 0440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
70.0	1354	3.612E-06	6.502E-06	1600
71.0	1378	3.675E-06	6.616E-06	1600
72.0	1393	3.715E-06	6.688E-06	1600
73.0	1629	4.385E-06	7.821E-06	1600
74.0	1863	4.969E-06	8.944E-06	1600
75.0	2011	5.364E-06	9.655E-06	1600
76.0	2271	6.057E-06	1.090E-05	1600
77.0	2260	6.028E-06	1.085E-05	1600
78.0	2488	6.635E-06	1.194E-05	1600
79.0	2121	5.656E-06	1.018E-05	1600
80.0	2485	6.629E-06	1.193E-05	1600
81.0	2861	7.631E-06	1.374E-05	1600
82.0	3662	9.767E-06	1.758E-05	1600
83.0	2612	6.967E-06	1.254E-05	1600
84.0	2986	7.963E-06	1.433E-05	1600
85.0	1412	3.767E-06	6.780E-06	1600
86.0	1910	5.095E-06	9.171E-06	1600
87.0	2483	6.624E-06	1.192E-05	1600
88.0	1792	4.780E-06	8.604E-06	1600
89.0	1144	3.051E-06	5.492E-06	1600
90.0	903	2.410E-06	4.338E-06	1600
91.0	620	1.654E-06	2.978E-06	1600
92.0	4	1.145E-08	2.061E-08	1600
93.0	272	7.271E-07	1.309E-06	1600
94.0	240	6.412E-07	1.154E-06	1600
95.0	135	3.607E-07	6.492E-07	1600
96.0	21	5.725E-08	1.030E-07	1600
97.0	130	3.492E-07	6.286E-07	1600
98.0	51	1.374E-07	2.473E-07	1600

CROSSWIND INTEGRATED= 3.314E-03 5.966E-03
SEC/SQ.M 1/M

TONER DATA FOLLOW....

TEST FT12 JULY 18, 1963 0410 TO 0440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC U= 1.8 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
99.0	0.2	42	1.142E-07	2.056E-07	1600
99.0	0.4	13	3.607E-08	6.492E-08	1600
99.0	0.8	45	1.202E-07	2.164E-07	1600
99.0	1.5	41	1.098E-07	1.976E-07	1600
99.0	3.1	56	1.516E-07	2.728E-07	1600
99.0	6.2	158	4.234E-07	7.621E-07	1600
99.0	9.3	409	1.092E-06	1.966E-06	1600
99.0	12.4	611	1.631E-06	2.935E-06	1600
99.0	15.5	450	1.202E-06	2.164E-06	1600
99.0	18.6	362	9.670E-07	1.741E-06	1600
99.0	21.7	401	1.072E-06	1.929E-06	1600
99.0	24.8	319	8.510E-07	1.532E-06	1600
99.0	31.0	152	4.077E-07	7.338E-07	1600
99.0	37.2	158	4.230E-07	7.614E-07	1600
99.0	43.4	55	1.478E-07	2.660E-07	1600
99.0	49.6	7	2.014E-08	3.625E-08	1600
99.0	55.8	10	2.820E-08	5.075E-08	1600
99.0	62.0	70	1.893E-07	3.408E-07	1600

TEST FT12 JULY 18, 1963 0410 TO 0440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
71.0	270	7.204E-07	1.297E-06	3200
72.0	311	8.318E-07	1.497E-06	3200
73.0	343	1.022E-06	1.840E-06	3200
76.0	22	5.981E-08	1.077E-07	3200
77.0	873	2.330E-06	4.193E-06	3200
78.0	564	1.506E-06	2.711E-06	3200
79.0	1153	3.077E-06	5.539E-06	3200
80.0	969	2.585E-06	4.653E-06	3200
81.0	1585	4.227E-06	7.609E-06	3200
82.0	1363	3.637E-06	6.547E-06	3200
83.0	1840	4.907E-06	8.832E-06	3200
84.0	1813	4.836E-06	8.705E-06	3200
85.0	1700	4.534E-06	8.162E-06	3200
86.0	1693	4.515E-06	8.128E-06	3200
87.0	1742	4.755E-06	8.558E-06	3200
88.0	1926	5.138E-06	9.248E-06	3200
89.0	1869	4.986E-06	8.974E-06	3200
90.0	1882	5.021E-06	9.038E-06	3200
91.0	1448	3.863E-06	6.953E-06	3200
92.0	1497	3.993E-06	7.188E-06	3200
93.0	1164	3.104E-06	5.588E-06	3200
94.0	1352	3.607E-06	6.493E-06	3200
95.0	1122	2.993E-06	5.387E-06	3200
96.0	1088	2.903E-06	5.226E-06	3200
97.0	908	2.422E-06	4.360E-06	3200
98.0	1042	2.847E-06	5.147E-06	3200
99.0	537	1.413E-06	2.579E-06	3200
100.0	656	1.751E-06	3.151E-06	3200
101.0	867	2.313E-06	4.164E-06	3200
102.0	523	1.347E-06	2.515E-06	3200
103.0	600	1.601E-06	2.882E-06	3200
104.0	287	7.666E-07	1.380E-06	3200
105.0	265	7.068E-07	1.272E-06	3200
106.0	306	8.183E-07	1.473E-06	3200
107.0	186	4.975E-07	8.955E-07	3200
108.0	135	3.616E-07	6.508E-07	3200
109.0	106	2.827E-07	5.089E-07	3200
110.0	44	2.256E-07	4.061E-07	3200
111.0	47	1.278E-07	2.300E-07	3200
112.0	35	9.515E-08	1.713E-07	3200
113.0	25	6.796E-08	1.223E-07	3200
114.0	42	3.262E-08	5.872E-08	3200
115.0	9	2.447E-08	4.404E-08	3200
116.0	8	2.175E-08	3.915E-08	3200
117.0	23	6.252E-08	1.125E-07	3200
118.0	24	6.524E-08	1.174E-07	3200
119.0	12	3.262E-08	5.872E-08	3200

CROSSWIND INTEGRATED= 5.484E-03 9.875E-03
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST FT12 JULY 1A, 1963 0010 TO 0040 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
 3200M ARC U= 1.8 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SFC/CM ²	EU/O I/SQ.M	DISTANCE METERS
98.0	0.2	848	2.262E-06	4.071E-06	3200
98.0	0.4	812	2.167E-06	3.900E-06	3200
98.0	0.8	415	1.109E-06	1.996E-06	3200
98.0	1.5	633	1.691E-06	3.043E-06	3200
98.0	3.1	633	1.691E-06	3.043E-06	3200
98.0	6.2	712	1.900E-06	3.021E-06	3200
Q 98.0	9.3	166	4.427E-07	7.969E-07	3200
Q 98.0	12.4	77	2.071E-07	3.728E-07	3200
Q 98.0	15.5	77	2.071E-07	3.728E-07	3200
Q 98.0	18.6	108	2.900E-07	5.219E-07	3200
98.0	21.7	296	7.896E-07	1.421E-06	3200
98.0	24.8	319	8.518E-07	1.533E-06	3200
98.0	31.0	152	4.065E-07	7.317E-07	3200
98.0	37.2	89	2.382E-07	4.287E-07	3200
98.0	43.4	88	2.356E-07	4.241E-07	3200
98.0	49.6	60	1.605E-07	2.889E-07	3200
98.0	55.8	54	1.466E-07	2.638E-07	3200
98.0	62.0	25	6.747E-08	1.214E-07	3200

SERIES '63 EXPERIMENT: 13 (FT-13)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS. MANY OF THE
FILTERS ON THE TOWERS WERE DAMAGED.

TEST FT13 AUGUST 6, 1963 0511 TO 0537 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC SAMPLER HT 1.5M U= 1.3 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
68.0	63	2.171E-07	2.822E-07	200
72.0	77	2.653E-07	3.449E-07	200
74.0	123	4.221E-07	5.487E-07	200
78.0	38	1.327E-07	1.725E-07	200
80.0	88	3.015E-07	3.919E-07	200
82.0	91	3.136E-07	4.076E-07	200
84.0	74	2.533E-07	3.292E-07	200
86.0	60	2.050E-07	2.665E-07	200
88.0	3	1.206E-08	1.568E-08	200
90.0	42	1.447E-07	1.881E-07	200
92.0	353	1.206E-06	1.568E-06	200
94.0	173	5.909E-07	7.682E-07	200
96.0	985	3.365E-06	4.374E-06	200
98.0	512	1.749E-06	2.273E-06	200
100.0	674	2.303E-06	2.994E-06	200
102.0	1236	4.221E-06	5.487E-06	200
104.0	1946	6.645E-06	8.638E-06	200
106.0	5625	1.920E-05	2.496E-05	200
108.0	7851	2.680E-05	3.484E-05	200
110.0	8293	2.810E-05	3.680E-05	200
112.0	5480	1.870E-05	2.432E-05	200
114.0	5204	1.776E-05	2.309E-05	200
116.0	2756	9.407E-06	1.223E-05	200
118.0	2572	8.780E-06	1.141E-05	200
120.0	840	2.870E-06	3.731E-06	200
122.0	303	1.037E-06	1.348E-06	200

CROSSWIND INTEGRATED= 1.088E-03 1.414E-03
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST FT13 AUGUST 6, 1963 0511 TO 0537 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC U= 1.3 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.3	148	5.065E-07	6.585E-07	200
98.0	0.7	268	9.165E-07	1.192E-06	200
98.0	1.4	912	3.115E-06	4.050E-06	200
98.0	2.7	412	1.407E-06	1.829E-06	200
98.0	4.1	76	2.613E-07	3.397E-07	200
98.0	5.4	1330	4.543E-06	5.905E-06	200
98.0	6.8	1666	5.688E-06	7.395E-06	200
98.0	8.1	4240	1.447E-05	1.881E-05	200
98.0	9.4	5038	1.720E-05	2.235E-05	200
98.0	10.8	3660	1.249E-05	1.624E-05	200
98.0	13.5	4846	1.654E-05	2.150E-05	200
98.0	16.2	8400	2.867E-05	3.727E-05	200
98.0	18.9	7502	2.561E-05	3.329E-05	200
98.0	21.6	5656	1.931E-05	2.510E-05	200
98.0	24.3	4449	1.519E-05	1.974E-05	200
98.0	27.0	3029	1.307E-05	1.699E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.3	3088	1.054E-05	1.370E-05	200
106.0	0.7	5328	1.819E-05	2.364E-05	200
106.0	1.4	4299	1.467E-05	1.907E-05	200
106.0	2.7	7517	2.566E-05	3.335E-05	200
106.0	4.1	17111	5.840E-05	7.592E-05	200
106.0	5.4	23539	8.034E-05	1.044E-04	200
106.0	6.8	36301	1.234E-04	1.611E-04	200
106.0	8.1	56574	1.931E-04	2.510E-04	200
106.0	9.4	87057	2.971E-04	3.863E-04	200
106.0	10.8	131499	4.488E-04	5.834E-04	200
106.0	13.5	165349	5.605E-04	7.338E-04	200
106.0	16.2	188363	6.424E-04	8.357E-04	200
106.0	18.9	119606	4.082E-04	5.307E-04	200
106.0	21.6	54554	1.862E-04	2.421E-04	200
106.0	24.3	16599	5.665E-05	7.365E-05	200
106.0	27.0	7464	2.548E-05	3.312E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.3	2660	9.081E-06	1.181E-05	200
114.0	0.7	3837	1.310E-05	1.703E-05	200
114.0	1.4	6236	2.129E-05	2.767E-05	200
114.0	2.7	9637	3.289E-05	4.276E-05	200
114.0	4.1	11834	4.039E-05	5.251E-05	200
114.0	5.4	21474	7.324E-05	9.528E-05	200
114.0	6.8	20859	7.119E-05	9.255E-05	200
114.0	8.1	30055	1.026E-04	1.334E-04	200
114.0	9.4	34622	1.182E-04	1.536E-04	200
114.0	10.8	41162	1.405E-04	1.826E-04	200
114.0	13.5	66901	2.283E-04	2.968E-04	200
114.0	16.2	69218	2.362E-04	3.071E-04	200
114.0	18.9	62637	2.13E-04	2.779E-04	200
114.0	21.6	29033	9.909E-05	1.288E-04	200
114.0	24.3	8676	2.961E-05	3.850E-05	200
114.0	27.0	3520	1.202E-05	1.562E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
122.0	0.3	194	6.633E-07	8.623E-07	200
122.0	0.7	533	1.821E-06	2.367E-06	200
122.0	1.4	350	1.196E-06	1.555E-06	200
122.0	2.7	1375	4.693E-06	6.101E-06	200
122.0	4.1	3024	1.032E-05	1.342E-05	200
122.0	5.4	3692	1.260E-05	1.638E-05	200
122.0	6.8	16766	5.722E-05	7.439E-05	200
122.0	8.1	39525	1.349E-04	1.754E-04	200
122.0	9.4	64616	2.205E-04	2.867E-04	200
122.0	10.8	108113	3.690E-04	4.797E-04	200
122.0	13.5	155822	5.318E-04	6.914E-04	200
122.0	16.2	141013	4.813E-04	6.257E-04	200
122.0	18.9	67996	2.321E-04	3.017E-04	200
122.0	21.6	26601	9.079E-05	1.180E-04	200
122.0	24.3	3339	1.140E-05	1.482E-05	200
122.0	27.0	1897	4.940E-06	6.422E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	E/Q SEC/CU,M	EU/Q 1/SQ,M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	E/Q SEC/CU,M	EU/Q 1/SQ,M	DISTANCE METERS
130.0	6.8	365	1.246E-06	1.620E-06	200	114.0	0.3	36015	1.229E-04	1.598E-04	800
130.0	8.1	948	3.236E-06	4.207E-06	200	114.0	0.5	31394	1.071E-04	1.393E-04	800
130.0	9.4	2352	8.030E-06	1.044E-05	200	114.0	1.0	35781	1.221E-04	1.588E-04	800
130.0	10.8	5727	1.955E-05	2.541E-05	200	114.0	2.1	40697	1.389E-04	1.806E-04	800
130.0	13.5	11024	3.763E-05	4.891E-05	200	Z 114.0	4.2	41617	1.420E-04	1.847E-04	800
130.0	16.2	4829	1.648E-05	2.183E-05	200	114.0	6.3	45001	1.536E-04	1.997E-04	800
130.0	18.9	150	5.125E-07	6.663E-07	200	114.0	8.4	30799	1.051E-04	1.367E-04	800
						T 114.0	10.5	21559	7.358E-05	9.566E-05	800
						114.0	12.6	3489	1.191E-05	1.548E-05	800
						Z 114.0	14.7	8829	3.014E-05	3.918E-05	800
						Z 114.0	16.8	8493	2.899E-05	3.769E-05	800
						Z 114.0	21.0	3919	1.338E-05	1.739E-05	800
						Z 114.0	21.0	3919	1.338E-05	1.739E-05	800
						114.0	25.2	2167	7.397E-06	9.616E-06	800
						Z 114.0	29.4	468	1.549E-06	2.078E-06	800
						114.0	33.6	220	7.518E-07	9.773E-07	800
						114.0	37.8	32	1.123E-07	1.460E-07	800
						114.0	42.0	22	7.777E-08	1.011E-07	800

TEST FT13 AUGUST 6, 1963 0511 TO 0537 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
800M ARC SAMPLER HT 1.5M U= 1.3 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU,M X10E+6	E/Q SEC/CU,M	EU/Q 1/SQ,M	DISTANCE METERS
104.0	75	2.566E-07	3.336E-07	800
106.0	1196	4.083E-06	5.308E-06	800
108.0	4812	1.643E-05	2.135E-05	800
110.0	18976	6.477E-05	8.420E-05	800
112.0	41553	1.418E-04	1.844E-04	800
114.0	40021	1.366E-04	1.776E-04	800
116.0	33913	1.157E-04	1.505E-04	800
118.0	21841	7.450E-05	9.691E-05	800
120.0	8244	2.814E-05	3.658E-05	800
122.0	4556	1.555E-05	2.022E-05	800

CROSSWIND INTEGRATED= 1.670E-02 SEC/SQ,M 2.171E-02 1/M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	E/Q SEC/CU,M	EU/Q 1/SQ,M	DISTANCE METERS
122.0	0.3	2444	8.481E-06	1.103E-05	800
122.0	0.5	2450	8.364E-06	1.087E-05	800
122.0	1.0	2623	8.953E-06	1.164E-05	800
122.0	2.1	4517	1.542E-05	2.004E-05	800
Z 122.0	4.2	4087	1.395E-05	1.814E-05	800
T 122.0	6.3	3779	1.290E-05	1.677E-05	800
122.0	8.4	10510	3.587E-05	4.663E-05	800
T 122.0	10.5	5471	1.867E-05	2.428E-05	800
122.0	12.6	2876	9.819E-06	1.276E-05	800
T 122.0	14.7	1674	5.716E-06	7.431E-06	800
T 122.0	16.8	1352	4.618E-06	6.003E-06	800
T 122.0	21.0	375	1.283E-06	1.668E-06	800
T 122.0	25.2	22	7.777E-08	1.011E-07	800

TOWER DATA FOLLOW....

TEST FT13 AUGUST 6, 1963 0511 TO 0537 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
800M ARC U= 1.3 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	E/Q SEC/CU,M	EU/Q 1/SQ,M	DISTANCE METERS
106.0	0.3	820	2.800E-06	3.640E-06	800
106.0	0.5	324	1.108E-06	1.441E-06	800
106.0	1.0	330	1.128E-06	1.466E-06	800
106.0	2.1	430	1.468E-06	1.908E-06	800
106.0	4.2	304	1.040E-06	1.352E-06	800
106.0	6.3	586	2.003E-06	2.603E-06	800
106.0	8.4	1862	6.352E-06	8.265E-06	800
106.0	10.5	6517	2.220E-05	2.892E-05	800
106.0	12.6	7642	2.608E-05	3.391E-05	800
T 106.0	14.7	1142	3.898E-06	5.068E-06	800
106.0	16.8	7388	2.522E-05	3.278E-05	800
Z 106.0	21.0	1837	6.270E-06	8.151E-06	800
Z 106.0	25.2	301	1.028E-06	1.337E-06	800
T 106.0	29.4	149	5.098E-07	6.628E-07	800
Z 106.0	33.6	673	2.299E-06	2.988E-06	800
106.0	37.8	594	2.031E-06	2.640E-06	800
106.0	42.0	311	1.063E-06	1.382E-06	800

TEST FT13 AUGUST 6, 1963 0511 TO 0537 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC SAMPLER HT 1.5M U= 1.3 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
99.0	63	2.154E-07	2.800E-07	1600	
101.0	121	4.154E-07	5.401E-07	1600	
102.0	164	5.616E-07	7.301E-07	1600	
103.0	214	7.309E-07	9.501E-07	1600	
104.0	338	1.154E-06	1.500E-06	1600	
105.0	1084	3.700E-06	4.811E-06	1600	
106.0	1081	3.693E-06	4.801E-06	1600	
107.0	1681	5.739E-06	7.461E-06	1600	
108.0	3924	1.339E-05	1.741E-05	1600	
109.0	6615	2.258E-05	2.935E-05	1600	
110.0	4784	1.619E-05	2.105E-05	1600	
111.0	4580	1.563E-05	2.032E-05	1600	
112.0	3874	1.322E-05	1.719E-05	1600	
113.0	7625	2.603E-05	3.383E-05	1600	
114.0	5076	1.733E-05	2.252E-05	1600	
115.0	6165	2.104E-05	2.735E-05	1600	
116.0	13229	4.515E-05	5.870E-05	1600	
117.0	17893	6.107E-05	7.939E-05	1600	
118.0	19487	6.651E-05	8.646E-05	1600	
119.0	14004	4.780E-05	6.214E-05	1600	
120.0	10236	3.494E-05	4.542E-05	1600	
121.0	6304	2.152E-05	2.797E-05	1600	
122.0	2574	8.786E-06	1.142E-05	1600	
123.0	518	1.769E-06	2.300E-06	1600	
124.0	112	3.847E-07	5.001E-07	1600	
125.0	200	6.847E-07	8.901E-07	1600	

CROSSWIND INTEGRATED= 1.258E-02 1.636E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST FT13 AUGUST 6, 1963 0511 TO 0537 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC U= 1.3 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.2	606	2.070E-06	2.690E-06	1600
106.0	0.4	466	1.593E-06	2.070E-06	1600
106.0	0.8	741	2.531E-06	3.290E-06	1600
106.0	1.5	456	1.560E-06	2.028E-06	1600
106.0	3.1	504	1.721E-06	2.237E-06	1600
106.0	6.2	104	3.567E-07	4.637E-07	1600
106.0	9.3	206	7.064E-07	9.183E-07	1600
106.0	12.4	243	8.323E-07	1.082E-06	1600
106.0	15.5	264	9.022E-07	1.173E-06	1600
106.0	18.6	569	1.944E-06	2.528E-06	1600
106.0	21.7	229	7.833E-07	1.018E-06	1600
106.0	24.8	191	6.520E-07	8.476E-07	1600
106.0	31.0	212	7.237E-07	9.408E-07	1600
106.0	37.2	288	9.845E-07	1.280E-06	1600
106.0	43.4	9	3.240E-08	4.238E-08	1600
106.0	49.6	19	6.739E-08	8.761E-08	1600
106.0	55.8	8	2.808E-08	3.650E-08	1600
106.0	62.0	18	6.177E-08	8.030E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.2	2815	9.609E-06	1.249E-05	1600
114.0	0.4	4079	1.392E-05	1.810E-05	1600
114.0	0.8	4172	1.424E-05	1.851E-05	1600
114.0	1.5	4083	1.380E-05	1.794E-05	1600
114.0	3.1	1254	4.280E-06	5.564E-06	1600
F 114.0	6.2	5071	1.731E-05	2.250E-05	1600
114.0	9.3	6916	2.360E-05	3.069E-05	1600
114.0	12.4	8621	2.942E-05	3.825E-05	1600
114.0	15.5	5616	1.917E-05	2.492E-05	1600
114.0	18.6	5477	1.869E-05	2.430E-05	1600
114.0	21.7	4045	1.381E-05	1.795E-05	1600
114.0	24.8	2200	7.511E-06	9.764E-06	1600
114.0	31.0	953	3.253E-06	4.229E-06	1600
114.0	37.2	328	1.121E-06	1.458E-06	1600
F 114.0	43.4	84	2.869E-07	3.729E-07	1600
114.0	49.6	59	2.022E-07	2.628E-07	1600
114.0	55.8	31	1.067E-07	1.387E-07	1600
114.0	62.0	57	1.966E-07	2.555E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
122.0	0.2	2290	7.816E-06	1.016E-05	1600
122.0	0.4	1857	6.339E-06	8.241E-06	1600
122.0	0.8	1433	4.893E-06	6.361E-06	1600
122.0	1.5	2407	8.218E-06	1.068E-05	1600
122.0	3.1	3008	1.027E-05	1.335E-05	1600
122.0	6.2	2592	8.847E-06	1.150E-05	1600
122.0	9.3	4164	1.421E-05	1.848E-05	1600
122.0	12.4	2893	9.875E-06	1.284E-05	1600
122.0	15.5	2860	9.764E-06	1.269E-05	1600
122.0	18.6	2668	9.106E-06	1.184E-05	1600
122.0	21.7	1386	4.595E-06	5.974E-06	1600
122.0	24.8	1159	3.957E-06	5.145E-06	1600
122.0	31.0	26	9.124E-08	1.187E-07	1600
122.0	43.4	95	3.260E-07	4.238E-07	1600
122.0	55.8	72	2.471E-07	3.212E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
130.0	0.2	65	2.231E-07	2.900E-07	1600
130.0	0.4	42	1.462E-07	1.900E-07	1600
130.0	0.8	43	1.469E-07	1.909E-07	1600
130.0	1.5	30	1.049E-07	1.364E-07	1600
130.0	3.1	8	2.798E-08	3.637E-08	1600
130.0	12.4	28	9.791E-08	1.273E-07	1600

TEST FT13 AUGUST 6, 1963 0511 TO 0537 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M ARC SAMPLER HT 1.5M U= 1.3 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
71.0	35	1.218E-07	1.583E-07	3200	
106.0	20	6.958E-08	9.046E-08	3200	
107.0	7	2.435E-08	3.166E-08	3200	
108.0	65	2.227E-07	2.895E-07	3200	
109.0	36	1.253E-07	1.628E-07	3200	
110.0	112	3.827E-07	4.975E-07	3200	
111.0	85	2.923E-07	3.799E-07	3200	
112.0	259	8.872E-07	1.153E-06	3200	
113.0	243	8.315E-07	1.081E-06	3200	
P 114.0	452	1.545E-06	2.008E-06	3200	
115.0	355	1.214E-06	1.579E-06	3200	
116.0	1368	4.659E-06	6.056E-06	3200	
117.0	1930	6.590E-06	8.567E-06	3200	
118.0	1277	4.359E-06	5.667E-06	3200	
119.0	2977	1.016E-05	1.321E-05	3200	
120.0	1710	5.838E-06	7.590E-06	3200	
121.0	1331	4.544E-06	5.907E-06	3200	
P 122.0	410	1.402E-06	1.823E-06	3200	
123.0	55	1.879E-07	2.442E-07	3200	

CROSSWIND INTEGRATED= 2.725E-03 3.542E-03
SEC/SQ.M 1/M

TOWER DATA FOLLOW...

TEST FT13 AUGUST 6, 1963 0511 TO 0537 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M ARC U= 1.3 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.4	22	7.654E-08	9.951E-08	3200
106.0	0.8	25	8.698E-08	1.131E-07	3200
106.0	1.5	7	2.651E-08	3.446E-08	3200
106.0	3.1	4	1.657E-08	2.154E-08	3200
106.0	6.2	66	2.286E-07	2.972E-07	3200
106.0	9.3	14	4.970E-08	6.461E-08	3200
106.0	12.4	39	1.355E-07	1.766E-07	3200
106.0	15.5	43	1.491E-07	1.938E-07	3200
106.0	18.6	91	3.115E-07	4.049E-07	3200
106.0	21.7	166	5.666E-07	7.366E-07	3200
106.0	24.8	75	2.585E-07	3.360E-07	3200
106.0	31.0	100	3.446E-07	4.480E-07	3200
106.0	37.2	40	1.392E-07	1.809E-07	3200
106.0	43.4	76	2.618E-07	3.403E-07	3200
106.0	49.6	26	9.173E-08	1.192E-07	3200
106.0	55.8	22	7.591E-08	9.868E-08	3200
106.0	62.0	7	2.530E-08	3.289E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.4	110	3.758E-07	4.885E-07	3200
114.0	1.5	507	1.733E-06	2.253E-06	3200
114.0	3.1	447	1.528E-06	1.986E-06	3200
114.0	6.2	47	1.624E-07	2.111E-07	3200
114.0	9.3	1062	3.625E-06	4.713E-06	3200
114.0	12.4	1477	5.043E-06	6.556E-06	3200
114.0	15.5	1865	6.365E-06	8.275E-06	3200
114.0	18.6	1769	6.041E-06	7.853E-06	3200
114.0	21.7	1610	5.497E-06	7.146E-06	3200
114.0	24.8	1499	5.116E-06	6.651E-06	3200
114.0	31.0	1043	3.562E-06	4.631E-06	3200
114.0	37.2	570	1.948E-06	2.533E-06	3200
114.0	43.4	255	8.715E-07	1.133E-06	3200
114.0	49.6	130	4.460E-07	5.798E-07	3200
114.0	55.8	44	1.518E-07	1.974E-07	3200

SERIES '63 EXPERIMENT: 14 (FT-14)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS.

TEST FT14 AUGUST 22, 1963 0244 TO 0327 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC SAMPLER HT 1.5M U= 2.8 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
84.0	101	1.844E-07	5.162E-07	200	
86.0	70	1.285E-07	3.598E-07	200	
88.0	138	2.514E-07	7.039E-07	200	
90.0	854	1.553E-06	4.349E-06	200	
92.0	2178	3.961E-06	1.109E-05	200	
94.0	76	1.397E-07	3.911E-07	200	
96.0	9592	1.744E-05	4.844E-05	200	
98.0	11952	2.173E-05	6.085E-05	200	
100.0	14223	2.586E-05	7.241E-05	200	
102.0	14850	2.700E-05	7.560E-05	200	
104.0	20214	3.675E-05	1.029E-04	200	
106.0	23628	4.296E-05	1.203E-04	200	
108.0	41867	7.612E-05	2.131E-04	200	
110.0	49619	9.022E-05	2.526E-04	200	
112.0	62115	1.493E-04	4.180E-04	200	
114.0	98972	1.799E-04	5.039E-04	200	
116.0	140947	2.563E-04	7.176E-04	200	
118.0	153367	2.788E-04	7.808E-04	200	
120.0	89748	1.632E-04	4.569E-04	200	
122.0	70123	1.275E-04	3.570E-04	200	
124.0	48777	8.869E-05	2.483E-04	200	
126.0	21520	3.913E-05	1.096E-04	200	
128.0	7315	1.330E-05	3.724E-05	200	
130.0	1121	2.039E-06	5.709E-06	200	
132.0	104	1.899E-07	5.318E-07	200	

CROSSWIND INTEGRATED= 1.147E-02 SEC/SQ.M
3.211E-02 1/M

TOWER DATA FOLLOW...

TEST FT14 AUGUST 22, 1963 0244 TO 0327 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC U= 2.8 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.3	13030	2.369E-05	6.634E-05	200
98.0	0.7	15227	2.769E-05	7.752E-05	200
98.0	1.4	10560	1.920E-05	5.376E-05	200
98.0	2.7	10898	1.902E-05	5.548E-05	200
98.0	4.1	11577	2.105E-05	5.894E-05	200
98.0	5.4	13564	2.466E-05	6.905E-05	200
98.0	6.8	16736	3.043E-05	8.520E-05	200
98.0	8.1	18335	3.334E-05	9.335E-05	200
98.0	9.4	23349	4.245E-05	1.189E-04	200
98.0	10.8	22621	4.113E-05	1.152E-04	200
98.0	13.5	20202	3.673E-05	1.028E-04	200
98.0	16.2	11209	2.038E-05	5.707E-05	200
98.0	18.9	9071	1.649E-05	4.618E-05	200
98.0	21.6	4552	8.278E-06	2.318E-05	200
98.0	24.3	2371	4.312E-06	1.207E-05	200
98.0	27.0	1632	2.967E-06	8.308E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.3	22846	4.154E-05	1.163E-04	200
106.0	0.7	26282	4.779E-05	1.334E-04	200
106.0	1.4	20011	3.638E-05	1.019E-04	200
106.0	2.7	17969	3.267E-05	9.148E-05	200
106.0	4.1	23204	4.219E-05	1.181E-04	200
106.0	5.4	23259	4.229E-05	1.184E-04	200
106.0	6.8	29328	5.333E-05	1.493E-04	200
106.0	8.1	35304	6.419E-05	1.797E-04	200
106.0	9.4	38123	6.932E-05	1.941E-04	200
106.0	10.8	43052	7.828E-05	2.192E-04	200
106.0	13.5	39311	7.144E-05	2.001E-04	200
106.0	16.2	28458	5.174E-05	1.449E-04	200
106.0	18.9	42791	7.780E-05	2.178E-04	200
106.0	21.6	32010	5.820E-05	1.630E-04	200
106.0	24.3	24700	4.491E-05	1.257E-04	200
106.0	27.0	22567	4.103E-05	1.149E-04	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.3	81452	1.481E-04	4.147E-04	200
114.0	0.7	96461	1.754E-04	4.911E-04	200
114.0	1.4	73798	1.342E-04	3.757E-04	200
114.0	2.7	72887	1.325E-04	3.711E-04	200
114.0	4.1	94365	1.716E-04	4.804E-04	200
114.0	5.4	98425	1.790E-04	5.011E-04	200
114.0	6.8	98782	1.796E-04	5.029E-04	200
114.0	8.1	115881	2.107E-04	5.899E-04	200
114.0	9.4	100409	1.826E-04	5.112E-04	200
114.0	10.8	115083	2.092E-04	5.859E-04	200
114.0	13.5	126511	2.300E-04	6.441E-04	200
114.0	16.2	101136	1.839E-04	5.149E-04	200
114.0	18.9	83627	1.520E-04	4.257E-04	200
114.0	21.6	63231	1.150E-04	3.219E-04	200
114.0	24.3	41416	7.530E-05	2.108E-04	200
114.0	27.0	31837	5.789E-05	1.621E-04	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
122.0	0.3	51330	9.333E-05	2.613E-04	200
122.0	0.7	73665	1.339E-04	3.750E-04	200
122.0	1.4	55674	1.012E-04	2.834E-04	200
122.0	2.7	57101	1.038E-04	2.907E-04	200
122.0	4.1	64341	1.170E-04	3.276E-04	200
122.0	5.4	76015	1.382E-04	3.870E-04	200
122.0	6.8	81629	1.569E-04	4.319E-04	200
122.0	8.1	71952	1.308E-04	3.663E-04	200
122.0	9.4	88099	1.602E-04	4.485E-04	200
122.0	10.8	82796	1.505E-04	4.215E-04	200
122.0	13.5	76832	1.397E-04	3.911E-04	200
122.0	16.2	103728	1.886E-04	5.281E-04	200
122.0	18.9	95812	1.742E-04	4.878E-04	200
122.0	21.6	81845	1.488E-04	4.167E-04	200
122.0	24.3	52251	9.500E-05	2.660E-04	200
122.0	27.0	36071	6.558E-05	1.836E-04	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	E/Q SEC/CU,M	FU/Q 1/SQ,M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	E/Q SEC/CU,M	FU/Q 1/SQ,M	DISTANCE METERS
130.0	0.3	578	1.052E-06	2.947E-06	200	106.0	0.3	3388	6.161E-06	1.725E-05	800
130.0	0.7	1322	2.405E-06	6.733E-06	200	106.0	0.5	5439	9.890E-06	2.769E-05	800
130.0	1.4	837	1.523E-06	4.265E-06	200	106.0	1.0	3524	6.408E-06	1.794E-05	800
130.0	2.7	702	1.276E-06	3.574E-06	200	106.0	2.1	4217	7.667E-06	2.147E-05	800
130.0	4.1	1459	2.653E-06	7.429E-06	200	106.0	4.2	4907	8.922E-06	2.498E-05	800
130.0	5.4	2451	4.457E-06	1.288E-05	200	106.0	6.3	5350	9.728E-06	2.724E-05	800
130.0	6.8	2762	5.022E-06	1.406E-05	200	106.0	8.4	5853	1.064E-05	2.940E-05	800
130.0	8.1	2810	5.110E-06	1.431E-05	200	106.0	10.5	6298	1.145E-05	3.207E-05	800
130.0	9.4	4069	7.399E-06	2.072E-05	200	106.0	12.6	7240	1.316E-05	3.688E-05	800
130.0	10.8	3993	7.261E-06	2.033E-05	200	106.0	14.7	7055	1.283E-05	3.592E-05	800
130.0	13.5	6244	1.135E-05	3.179E-05	200	106.0	16.8	7242	1.317E-05	3.687E-05	800
130.0	16.2	6580	1.196E-05	3.350E-05	200	106.0	21.0	4379	7.963E-06	2.230E-05	800
130.0	18.9	6695	1.217E-05	3.409E-05	200	106.0	25.2	4347	7.904E-06	2.213E-05	800
130.0	21.6	6767	1.230E-05	3.445E-05	200	106.0	29.4	3816	6.938E-06	1.943E-05	800
130.0	24.3	5389	9.800E-06	2.744E-05	200	106.0	33.6	2581	4.695E-06	1.314E-05	800
130.0	27.0	4554	8.281E-06	2.319E-05	200	106.0	37.8	1989	3.545E-06	9.926E-06	800
						106.0	42.0	1152	2.495E-06	5.867E-06	800

TEST F114 AUGUST 22, 1963 0244 TO 0327 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
800M ARC SAMPLER HT 1.5M U= 2.8 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	E/Q SEC/CU,M	FU/Q 1/SQ,M	DISTANCE METERS
86.0	77	1.405E-07	3.934E-07		800
88.0	924	1.681E-06	4.706E-06		800
90.0	2229	4.053E-06	1.135E-05		800
92.0	4235	7.701E-06	2.156E-05		800
94.0	4684	8.517E-06	2.385E-05		800
96.0	4877	8.868E-06	2.483E-05		800
98.0	5308	9.652E-06	2.702E-05		800
100.0	6283	1.142E-05	3.199E-05		800
102.0	6458	1.174E-05	3.288E-05		800
104.0	6265	1.139E-05	3.190E-05		800
106.0	5882	1.069E-05	2.994E-05		800
108.0	7668	1.394E-05	3.904E-05		800
110.0	8182	1.488E-05	4.166E-05		800
112.0	15193	2.763E-05	7.735E-05		800
114.0	15122	2.750E-05	7.699E-05		800
116.0	18597	3.381E-05	9.468E-05		800
118.0	23311	4.238E-05	1.187E-04		800
120.0	17128	3.114E-05	8.720E-05		800
122.0	4820	8.765E-06	2.454E-05		800
124.0	826	1.502E-06	4.206E-06		800
126.0	53	9.727E-08	2.724E-07		800

CROSSWIND INTEGRATED= 8.929E-03 2.248E-02
SEC/80,M 1/M

TOWER DATA FOLLOW....

TEST F114 AUGUST 22, 1963 0244 TO 0327 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
800M ARC U= 2.8 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	E/Q SEC/CU,M	FU/Q 1/SQ,M	DISTANCE METERS
98.0	0.3	5032	9.150E-06	2.562E-05	800
98.0	0.5	5061	9.204E-06	2.577E-05	800
98.0	1.0	3851	7.803E-06	1.961E-05	800
98.0	2.1	4283	7.789E-06	2.181E-05	800
98.0	4.2	3355	6.101E-06	1.708E-05	800
98.0	6.3	4014	7.299E-06	2.044E-05	800
98.0	8.4	2887	5.251E-06	1.470E-05	800
98.0	10.5	2654	4.826E-06	1.351E-05	800
98.0	12.6	2729	4.963E-06	1.390E-05	800
98.0	14.7	2380	4.328E-06	1.212E-05	800
98.0	16.8	1549	2.818E-06	7.889E-06	800
98.0	21.0	1015	1.846E-06	5.169E-06	800
98.0	25.2	717	1.304E-06	3.652E-06	800
98.0	29.4	305	5.553E-07	1.555E-06	800
98.0	33.6	245	4.456E-07	1.248E-06	800
98.0	37.8	62	1.130E-07	3.164E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	E/Q SEC/CU,M	FU/Q 1/SQ,M	DISTANCE METERS
114.0	0.3	12353	2.246E-05	6.289E-05	800
114.0	0.5	11559	2.102E-05	5.885E-05	800
114.0	1.0	10582	1.924E-05	5.388E-05	800
114.0	2.1	11419	2.076E-05	5.814E-05	800
114.0	4.2	14915	2.712E-05	7.593E-05	800
114.0	6.3	18325	2.605E-05	7.293E-05	800
114.0	8.4	12399	2.254E-05	6.313E-05	800
114.0	10.5	17291	3.144E-05	8.803E-05	800
114.0	12.6	15469	2.813E-05	7.876E-05	800
114.0	14.7	15592	2.835E-05	7.938E-05	800
114.0	16.8	14487	2.627E-05	7.355E-05	800
114.0	21.0	13421	2.440E-05	6.833E-05	800
114.0	25.2	11016	2.003E-05	5.609E-05	800
114.0	29.4	8230	1.496E-05	4.190E-05	800
114.0	33.6	8564	1.557E-05	4.360E-05	800
114.0	37.8	7989	1.453E-05	4.067E-05	800
114.0	42.0	5904	1.074E-05	3.006E-05	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	E/Q SEC/CU,M	FU/Q 1/SQ,M	DISTANCE METERS
122.0	0.3	3486	6.339E-06	1.775E-05	800
122.0	0.5	3700	6.802E-06	1.880E-05	800
122.0	1.0	3631	6.603E-06	1.849E-05	800
122.0	2.1	4217	7.667E-06	2.147E-05	800
122.0	4.2	4508	8.198E-06	2.295E-05	800
122.0	6.3	5746	1.045E-05	2.926E-05	800
122.0	8.4	6612	1.202E-05	3.367E-05	800
122.0	10.5	8142	1.480E-05	4.145E-05	800
122.0	12.6	7405	1.386E-05	3.770E-05	800
122.0	14.7	8801	1.600E-05	4.481E-05	800
122.0	16.8	9749	1.773E-05	4.964E-05	800
122.0	21.0	9834	1.788E-05	5.007E-05	800
122.0	25.2	8976	1.632E-05	4.570E-05	800
122.0	29.4	8204	1.492E-05	4.177E-05	800
122.0	33.6	7628	1.387E-05	3.884E-05	800
122.0	37.8	6744	1.226E-05	3.434E-05	800
122.0	42.0	6499	1.182E-05	3.309E-05	800

TEST FT14 AUGUST 22, 1963 0244 TO 0327 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M APC SAMPLER HT 1.5M U= 2.8 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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88.0	47	8.569E-08	2.399E-07	1600
89.0	278	5.067E-07	1.419E-06	1600
90.0	403	7.340E-07	2.055E-06	1600
91.0	522	9.501E-07	2.660E-06	1600
92.0	1090	1.982E-06	5.550E-06	1600
93.0	1295	2.355E-06	6.593E-06	1600
94.0	1579	2.873E-06	8.043E-06	1600
95.0	2262	4.113E-06	1.152E-05	1600
Z 96.0	375	6.818E-07	1.909E-06	1600
97.0	3500	6.360E-06	1.782E-05	1600
98.0	3903	7.098E-06	1.987E-05	1600
99.0	3723	6.770E-06	1.896E-05	1600
100.0	3069	5.581E-06	1.563E-05	1600
101.0	2916	5.302E-06	1.485E-05	1600
102.0	3510	6.382E-06	1.787E-05	1600
103.0	3256	5.920E-06	1.658E-05	1600
104.0	3452	6.278E-06	1.758E-05	1600
105.0	3432	6.241E-06	1.747E-05	1600
106.0	2737	4.978E-06	1.394E-05	1600
107.0	2924	5.317E-06	1.489E-05	1600
108.0	2422	4.404E-06	1.233E-05	1600
109.0	2434	4.426E-06	1.239E-05	1600
110.0	2491	4.531E-06	1.269E-05	1600
111.0	2010	3.655E-06	1.023E-05	1600
112.0	2135	3.882E-06	1.087E-05	1600
113.0	2604	4.736E-06	1.326E-05	1600
114.0	4106	7.467E-06	2.091E-05	1600
115.0	6604	1.201E-05	3.362E-05	1600
116.0	7709	1.402E-05	3.925E-05	1600
117.0	6455	1.174E-05	3.286E-05	1600
R 118.0	84	1.528E-07	4.277E-07	1600
119.0	2766	5.030E-06	1.408E-05	1600
120.0	1252	2.276E-06	6.374E-06	1600
121.0	393	7.154E-07	2.003E-06	1600
122.0	137	2.496E-07	6.990E-07	1600
123.0	49	8.942E-08	2.504E-07	1600
124.0	30	5.589E-08	1.565E-07	1600

CROSS=IND INTEGRATED* 4.466E-03 1.251E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST FT14 AUGUST 22, 1963 0244 TO 0327 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M APC SAMPLER HT 1.5M U= 2.8 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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98.0	0.2	3366	6.120E-06	1.714E-05	1600
98.0	0.4	3108	5.652E-06	1.583E-05	1600
98.0	0.8	3329	6.054E-06	1.695E-05	1600
98.0	1.5	3116	5.667E-06	1.587E-05	1600
98.0	3.1	2893	5.261E-06	1.473E-05	1600
98.0	6.2	2498	4.543E-06	1.272E-05	1600
98.0	9.3	1706	3.104E-06	8.690E-06	1600
98.0	12.4	1488	2.707E-06	7.580E-06	1600
98.0	15.5	631	1.149E-06	3.217E-06	1600
98.0	18.6	528	9.617E-07	2.693E-06	1600
98.0	21.7	348	6.338E-07	1.775E-06	1600
98.0	24.8	246	4.482E-07	1.255E-06	1600
98.0	31.0	45	8.243E-08	2.308E-07	1600
98.0	37.2	41	7.470E-08	2.092E-07	1600
98.0	43.4	17	3.091E-08	8.655E-08	1600
98.0	49.6	12	2.291E-08	6.416E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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106.0	0.2	1929	3.509E-06	9.825E-06	1600
106.0	0.4	2378	4.325E-06	1.211E-05	1600
106.0	0.8	1968	3.579E-06	1.002E-05	1600
106.0	1.5	1813	3.297E-06	9.232E-06	1600
106.0	3.1	2206	4.012E-06	1.123E-05	1600
106.0	6.2	2957	5.377E-06	1.505E-05	1600
106.0	9.3	3405	6.192E-06	1.734E-05	1600
106.0	12.4	3209	5.836E-06	1.634E-05	1600
Z 106.0	15.5	24	4.371E-08	1.224E-07	1600
106.0	18.6	2557	4.649E-06	1.302E-05	1600
106.0	24.8	1775	3.228E-06	9.037E-06	1600
106.0	31.0	1544	2.808E-06	7.861E-06	1600
106.0	37.2	916	1.667E-06	4.666E-06	1600
106.0	43.4	62	1.133E-07	3.173E-07	1600
106.0	49.6	169	3.074E-07	8.608E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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114.0	0.2	3050	5.547E-06	1.553E-05	1600
114.0	0.4	3638	6.616E-06	1.852E-05	1600
114.0	0.8	3490	6.347E-06	1.777E-05	1600
Z 114.0	3.1	142	2.592E-07	7.256E-07	1600
114.0	6.2	3891	7.075E-06	1.981E-05	1600
114.0	9.3	3534	6.426E-06	1.799E-05	1600
114.0	12.4	4009	7.291E-06	2.041E-05	1600
114.0	15.5	3702	6.732E-06	1.885E-05	1600
114.0	21.7	4420	8.037E-06	2.250E-05	1600
114.0	24.8	3312	6.022E-06	1.686E-05	1600
114.0	31.0	3810	6.929E-06	1.940E-05	1600
114.0	37.2	3344	6.082E-06	1.703E-05	1600
114.0	49.6	1704	3.099E-06	8.678E-06	1600
114.0	62.0	1078	1.961E-06	5.491E-06	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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122.0	0.2	328	5.972E-07	1.672E-06	1600
122.0	0.4	182	3.318E-07	9.290E-07	1600
Z 122.0	0.8	66	1.210E-07	3.388E-07	1600
122.0	1.5	317	5.776E-07	1.617E-06	1600
122.0	3.1	123	2.248E-07	6.295E-07	1600
122.0	6.2	219	3.997E-07	1.119E-06	1600
Z 122.0	9.3	39	7.181E-08	2.011E-07	1600
122.0	12.4	518	9.429E-07	2.640E-06	1600
Z 122.0	18.6	41	7.494E-08	2.098E-07	1600
122.0	21.7	899	1.636E-06	4.581E-06	1600
122.0	24.8	946	1.721E-06	4.818E-06	1600
122.0	31.0	1588	2.888E-06	8.085E-06	1600
122.0	37.2	1603	2.916E-06	8.164E-06	1600
122.0	43.4	1760	3.202E-06	8.965E-06	1600
122.0	49.6	1450	2.637E-06	7.384E-06	1600
122.0	55.8	1105	2.083E-06	5.833E-06	1600
122.0	62.0	52	9.588E-08	2.673E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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130.0	0.2	38	7.026E-08	1.967E-07	1600
130.0	0.4	77	1.405E-07	3.935E-07	1600
130.0	0.8	36	6.636E-08	1.858E-07	1600
130.0	1.5	24	4.371E-08	1.224E-07	1600
130.0	3.1	441	8.024E-07	2.247E-06	1600
130.0	21.7	68	1.249E-07	3.497E-07	1600
130.0	24.8	18	3.349E-08	9.376E-08	1600
130.0	31.0	55	1.005E-07	2.813E-07	1600
130.0	37.2	72	1.314E-07	3.678E-07	1600
130.0	43.4	63	1.185E-07	3.318E-07	1600
130.0	49.6	11	2.101E-08	5.881E-08	1600

TEST FT14 AUGUST 22, 1963 0244 TO 0327 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M ARC SAMPLER HT 1.5M U= 2.8 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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89.0	11	2.118E-08	5.931E-08	3200
90.0	11	2.118E-08	5.931E-08	3200
91.0	27	4.943E-08	1.384E-07	3200
92.0	47	8.650E-08	2.422E-07	3200
93.0	102	1.871E-07	5.239E-07	3200
94.0	144	3.354E-07	9.391E-07	3200
95.0	365	6.637E-07	1.858E-06	3200
96.0	389	7.079E-07	1.982E-06	3200
97.0	557	1.013E-06	2.837E-06	3200
98.0	376	6.849E-07	1.918E-06	3200
99.0	825	1.500E-06	4.201E-06	3200
100.0	1277	2.323E-06	6.504E-06	3200
101.0	1468	2.671E-06	7.478E-06	3200
102.0	1425	2.591E-06	7.256E-06	3200
103.0	1597	2.904E-06	8.131E-06	3200
104.0	1726	3.139E-06	8.788E-06	3200
105.0	2204	4.009E-06	1.122E-05	3200
107.0	1884	3.426E-06	9.594E-06	3200
108.0	1717	3.123E-06	8.744E-06	3200
109.0	2239	4.072E-06	1.140E-05	3200
110.0	1886	3.430E-06	9.604E-06	3200
111.0	2066	3.756E-06	1.052E-05	3200
112.0	2010	3.656E-06	1.024E-05	3200
113.0	2244	4.154E-06	1.163E-05	3200
114.0	1773	3.225E-06	9.030E-06	3200
115.0	2054	3.735E-06	1.046E-05	3200
116.0	1413	2.570E-06	7.196E-06	3200
117.0	699	1.271E-06	3.559E-06	3200
118.0	215	3.919E-07	1.097E-06	3200
119.0	111	2.036E-07	5.684E-07	3200
120.0	157	2.860E-07	8.007E-07	3200
121.0	11	2.118E-08	5.931E-08	3200
122.0	35	6.531E-08	1.829E-07	3200

CROSSWIND INTEGRATED= 3.575E-03 1.001E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST FT14 AUGUST 22, 1963 0244 TO 0327 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M ARC U= 2.8 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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98.0	1.5	639	1.163E-06	3.255E-06	3200
98.0	9.3	360	6.555E-07	1.835E-06	3200
98.0	18.6	87	1.584E-07	4.435E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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106.0	0.8	2290	4.165E-06	1.166E-05	3200
106.0	3.1	58	1.062E-07	2.972E-07	3200
Z 106.0	24.8	503	9.154E-07	2.563E-06	3200
106.0	43.4	94	1.721E-07	4.819E-07	3200
106.0	55.8	13	2.521E-08	7.058E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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Z 114.0	0.2	2066	3.757E-06	1.052E-05	3200
114.0	0.4	2351	4.276E-06	1.197E-05	3200
T 114.0	0.8	1299	2.363E-06	6.617E-06	3200
114.0	1.5	2292	4.169E-06	1.167E-05	3200
114.0	3.1	2383	4.334E-06	1.213E-05	3200
114.0	6.2	2582	4.696E-06	1.315E-05	3200
114.0	9.3	2542	4.622E-06	1.294E-05	3200
114.0	12.4	2943	5.352E-06	1.498E-05	3200
114.0	15.5	2603	4.733E-06	1.325E-05	3200
114.0	18.6	3096	5.630E-06	1.576E-05	3200
114.0	21.7	2787	5.068E-06	1.419E-05	3200
114.0	24.8	2705	4.920E-06	1.378E-05	3200
114.0	31.0	2506	4.557E-06	1.276E-05	3200
114.0	37.2	2278	4.143E-06	1.160E-05	3200
114.0	43.4	1585	2.883E-06	8.073E-06	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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122.0	0.8	19	3.522E-08	9.861E-08	3200
122.0	3.1	15	2.864E-08	8.021E-08	3200
122.0	21.7	97	1.769E-07	4.954E-07	3200

SERIES '63 EXPERIMENT: 15 (FT-15)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS.

TEST FT15 AUGUST 27, 1963 0224 TO 0301 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC SAMPLER HT 1.5M U= 2.2 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
86.0	252	5.048E-07	1.111E-06	200	
88.0	174	3.500E-07	7.700E-07	200	
90.0	158	3.163E-07	6.959E-07	200	
92.0	333	6.663E-07	1.466E-06	200	
94.0	642	1.286E-06	2.828E-06	200	
96.0	932	1.864E-06	4.102E-06	200	
98.0	969	1.938E-06	4.264E-06	200	
100.0	2046	4.092E-06	9.003E-06	200	
102.0	2385	4.772E-06	1.050E-05	200	
104.0	2052	4.106E-06	9.032E-06	200	
106.0	4411	8.824E-06	1.941E-05	200	
108.0	8965	1.793E-05	3.945E-05	200	
110.0	12495	2.499E-05	5.498E-05	200	
112.0	14625	2.925E-05	6.435E-05	200	
114.0	10617	2.123E-05	4.672E-05	200	
116.0	9018	1.804E-05	3.968E-05	200	
118.0	12808	2.562E-05	5.636E-05	200	
120.0	10893	2.179E-05	4.793E-05	200	
122.0	6814	1.363E-05	2.998E-05	200	
124.0	11610	2.322E-05	5.108E-05	200	
126.0	20420	4.084E-05	8.985E-05	200	
128.0	17038	3.408E-05	7.497E-05	200	
130.0	22140	4.428E-05	9.742E-05	200	
132.0	11007	2.202E-05	4.843E-05	200	
134.0	932	1.864E-06	4.102E-06	200	
136.0	1097	2.194E-06	4.827E-06	200	
138.0	63	1.279E-07	2.813E-07	200	

CROSSWIND INTEGRATED= 2.582E-03 5.680E-03
SEC/SQ.M 1/M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.3	3992	7.986E-06	1.757E-05	200
106.0	0.7	4388	8.777E-06	1.931E-05	200
106.0	1.4	4375	8.751E-06	1.925E-05	200
106.0	2.7	3749	7.499E-06	1.650E-05	200
106.0	4.1	5040	1.008E-05	2.218E-05	200
106.0	5.4	5466	1.093E-05	2.405E-05	200
106.0	6.8	8709	1.742E-05	3.832E-05	200
106.0	8.1	8258	1.652E-05	3.634E-05	200
106.0	9.4	5399	1.080E-05	2.376E-05	200
106.0	10.8	4911	9.824E-06	2.161E-05	200
106.0	13.5	853	1.708E-06	3.757E-06	200
106.0	16.2	145	2.900E-07	6.380E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.3	4024	8.049E-06	1.771E-05	200
114.0	0.7	7473	1.495E-05	3.288E-05	200
114.0	1.4	7969	1.592E-05	3.502E-05	200
114.0	2.7	18011	3.602E-05	7.925E-05	200
114.0	4.1	32003	6.401E-05	1.408E-04	200
114.0	5.4	52733	1.055E-04	2.320E-04	200
114.0	6.8	65153	1.303E-04	2.867E-04	200
114.0	8.1	92921	1.858E-04	4.089E-04	200
114.0	9.4	118835	2.377E-04	5.229E-04	200
114.0	10.8	113366	2.267E-04	4.988E-04	200
114.0	13.5	70898	1.418E-04	3.120E-04	200
114.0	16.2	14491	2.898E-05	6.376E-05	200
114.0	18.9	20594	4.120E-05	9.063E-05	200
114.0	21.6	9704	1.941E-05	4.270E-05	200
114.0	24.3	1396	2.793E-06	6.145E-06	200
114.0	27.0	350	7.018E-07	1.544E-06	200

TOWER DATA FOLLOW...

TEST FT15 AUGUST 27, 1963 0224 TO 0301 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC U= 2.2 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.3	537	1.074E-06	2.363E-06	200
98.0	0.7	848	1.696E-06	3.731E-06	200
98.0	1.4	865	1.731E-06	3.808E-06	200
98.0	2.7	946	1.892E-06	4.162E-06	200
98.0	4.1	872	1.745E-06	3.838E-06	200
98.0	5.4	651	1.303E-06	2.866E-06	200
98.0	6.8	363	7.274E-07	1.600E-06	200
98.0	8.1	112	2.256E-07	4.963E-07	200
98.0	9.4	59	1.197E-07	2.633E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
122.0	0.3	6487	1.298E-05	2.855E-05	200
122.0	0.7	5674	1.135E-05	2.497E-05	200
122.0	1.4	4566	9.133E-06	2.009E-05	200
122.0	2.7	7296	1.459E-05	3.210E-05	200
122.0	4.1	10489	2.090E-05	4.598E-05	200
122.0	5.4	14915	2.983E-05	6.563E-05	200
122.0	6.8	46161	9.232E-05	2.031E-04	200
122.0	8.1	60851	1.217E-04	2.677E-04	200
122.0	9.4	99930	1.999E-04	4.397E-04	200
122.0	10.8	186727	3.735E-04	8.216E-04	200
122.0	13.5	220229	4.405E-04	9.690E-04	200
122.0	16.2	155345	3.107E-04	6.835E-04	200
122.0	18.9	75819	1.516E-04	3.336E-04	200
122.0	21.6	23892	4.778E-05	1.051E-04	200
122.0	24.3	4711	9.424E-06	2.073E-05	200
122.0	27.0	2695	5.391E-06	1.186E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
130.0	0.3	13271	2.654E-05	5.840E-05	200
130.0	0.7	16338	3.268E-05	7.189E-05	200
130.0	1.4	14316	2.863E-05	6.299E-05	200
130.0	2.7	22844	4.577E-05	1.007E-04	200
130.0	4.1	35424	7.085E-05	1.559E-04	200
130.0	5.4	56284	1.126E-04	2.477E-04	200
130.0	6.8	73676	1.474E-04	3.242E-04	200
130.0	8.1	109466	2.189E-04	4.817E-04	200
130.0	9.4	142161	2.843E-04	6.255E-04	200
130.0	10.8	116733	2.335E-04	5.136E-04	200
130.0	13.5	120271	2.405E-04	5.292E-04	200
130.0	16.2	172475	3.450E-04	7.589E-04	200
130.0	18.9	94049	1.881E-04	4.138E-04	200
130.0	21.6	42488	8.498E-05	1.869E-04	200
130.0	24.3	9907	1.981E-05	4.359E-05	200
130.0	27.0	4500	9.008E-06	1.982E-05	200

TOWER DATA FOLLOW...

TEST FT15 AUGUST 27, 1963 0224 TO 0301 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
ROOM ARC U= 2.2 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
98.0	0.3	1039	2.078E-06	4.572E-06	800
98.0	0.5	922	1.846E-06	4.061E-06	800
98.0	1.0	516	1.033E-06	2.273E-06	800
98.0	2.1	630	1.260E-06	2.772E-06	800
98.0	4.2	545	1.091E-06	2.400E-06	800
98.0	6.3	249	4.987E-07	1.097E-06	800
98.0	8.4	240	4.809E-07	1.050E-06	800
98.0	10.5	434	8.683E-07	1.910E-06	800
98.0	12.6	151	3.028E-07	6.662E-07	800
98.0	14.7	64	1.291E-07	2.841E-07	800
98.0	16.8	120	2.405E-07	5.290E-07	800
98.0	21.0	33	6.680E-08	1.470E-07	800

TEST FT15 AUGUST 27, 1963 0224 TO 0301 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
ROOM ARC SAMPLER HT 1.5M U= 2.2 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
80.0	65	1.302E-07	2.865E-07	800
82.0	192	3.841E-07	8.451E-07	800
84.0	188	3.776E-07	8.307E-07	800
86.0	247	4.948E-07	1.089E-06	800
88.0	387	7.748E-07	1.704E-06	800
90.0	592	1.185E-06	2.607E-06	800
92.0	696	1.393E-06	3.065E-06	800
94.0	1106	2.214E-06	4.870E-06	800
96.0	904	1.810E-06	3.982E-06	800
98.0	1025	2.051E-06	4.512E-06	800
100.0	1171	2.344E-06	5.156E-06	800
102.0	1969	3.939E-06	8.666E-06	800
104.0	2474	4.948E-06	1.089E-05	800
106.0	3727	7.455E-06	1.640E-05	800
108.0	3798	7.598E-06	1.672E-05	800
110.0	4775	9.551E-06	2.101E-05	800
112.0	6360	1.272E-05	2.799E-05	800
114.0	17028	3.406E-05	7.492E-05	800
116.0	47084	9.417E-05	2.072E-04	800
118.0	47309	9.462E-05	2.082E-04	800
120.0	35104	7.021E-05	1.545E-04	800
122.0	20192	4.039E-05	8.885E-05	800
124.0	24541	4.908E-05	1.080E-04	800
126.0	28581	5.716E-05	1.258E-04	800
128.0	39014	7.803E-05	1.717E-04	800
130.0	15384	3.077E-05	6.789E-05	800
132.0	1669	3.340E-06	7.348E-06	800

CROSSWIND INTEGRATED= 1.707E-02 SEC/SQ.M 3.755E-02 1/M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
106.0	0.3	1486	2.974E-06	6.542E-06	800
106.0	0.5	2389	4.778E-06	1.051E-05	800
106.0	1.0	1894	3.790E-06	8.337E-06	800
106.0	2.1	1966	3.932E-06	8.651E-06	800
106.0	4.2	1839	3.678E-06	8.092E-06	800
106.0	6.3	1197	2.396E-06	5.271E-06	800
106.0	8.4	997	1.995E-06	4.389E-06	800
106.0	10.5	529	1.060E-06	2.332E-06	800
106.0	12.6	512	1.024E-06	2.253E-06	800
106.0	14.7	240	4.809E-07	1.058E-06	800
106.0	16.8	138	2.761E-07	6.074E-07	800
106.0	21.0	26	5.344E-08	1.176E-07	800
106.0	25.2	23	4.728E-08	1.040E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
114.0	0.3	14786	2.957E-05	6.506E-05	800
114.0	0.5	13532	2.706E-05	5.954E-05	800
114.0	1.0	10547	2.109E-05	4.641E-05	800
114.0	2.1	11491	2.298E-05	5.056E-05	800
114.0	4.2	12257	2.451E-05	5.393E-05	800
114.0	6.3	12067	2.414E-05	5.310E-05	800
114.0	8.4	8342	1.669E-05	3.671E-05	800
114.0	10.5	5646	1.129E-05	2.480E-05	800
114.0	12.6	4288	8.577E-06	1.887E-05	800
114.0	14.7	2097	4.195E-06	9.229E-06	800
114.0	16.8	1013	2.026E-06	4.458E-06	800
114.0	21.0	536	1.073E-06	2.361E-06	800
114.0	25.2	204	4.087E-07	8.991E-07	800
114.0	29.4	84	1.689E-07	3.715E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
122.0	0.3	18101	3.620E-05	7.965E-05	800
122.0	0.5	14020	2.884E-05	6.345E-05	800
122.0	1.0	14559	2.912E-05	6.406E-05	800
122.0	2.1	15040	3.008E-05	6.618E-05	800
122.0	4.2	16966	3.393E-05	7.465E-05	800
122.0	6.3	20179	4.036E-05	8.879E-05	800
122.0	8.4	30338	6.068E-05	1.335E-04	800
122.0	10.5	35295	7.059E-05	1.553E-04	800
122.0	12.6	32943	6.589E-05	1.450E-04	800
122.0	14.7	33469	6.694E-05	1.473E-04	800
122.0	16.8	28593	5.719E-05	1.258E-04	800
122.0	21.0	17449	3.490E-05	7.678E-05	800
122.0	25.2	7975	1.595E-05	3.509E-05	800
122.0	29.4	3534	7.069E-06	1.555E-05	800
122.0	33.6	1442	2.880E-06	6.346E-06	800
122.0	37.8	442	8.849E-07	1.947E-06	800
122.0	42.0	118	2.364E-07	5.201E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
130.0	0.3	12595	2.519E-05	5.542E-05	800
130.0	0.5	12157	2.432E-05	5.350E-05	800
130.0	1.0	9162	1.832E-05	4.031E-05	800
130.0	2.1	13904	2.781E-05	6.118E-05	800
130.0	4.2	18377	3.676E-05	8.086E-05	800
130.0	6.3	21872	4.295E-05	9.448E-05	800
130.0	8.4	21909	4.382E-05	9.640E-05	800
130.0	10.5	23461	4.692E-05	1.032E-04	800
130.0	12.6	20880	4.176E-05	9.187E-05	800
130.0	14.7	17409	3.482E-05	7.660E-05	800
130.0	16.8	13679	2.736E-05	6.019E-05	800
130.0	21.0	5982	1.197E-05	2.632E-05	800
130.0	25.2	1396	2.793E-06	6.145E-06	800
130.0	29.4	501	1.003E-06	2.207E-06	800
130.0	33.6	75	1.520E-07	3.344E-07	800
130.0	37.8	18	3.715E-08	8.173E-08	800
130.0	42.0	21	4.391E-08	9.659E-08	800

TEST FT15 AUGUST 27, 1963 0224 TO 0301 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC SAMPLER HT 1.5M U= 2.2 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
71.0	85	1.713E-07	3.769E-07	1600
72.0	49	1.398E-07	3.075E-07	1600
73.0	140	2.885E-07	6.348E-07	1600
74.0	85	1.713E-07	3.769E-07	1600
76.0	27	5.410E-08	1.190E-07	1600
78.0	51	1.037E-07	2.281E-07	1600
80.0	142	2.840E-07	6.248E-07	1600
81.0	209	4.193E-07	9.224E-07	1600
82.0	60	1.217E-07	2.678E-07	1600
83.0	22	4.508E-08	9.918E-08	1600
84.0	51	1.037E-07	2.281E-07	1600
85.0	72	1.443E-07	3.174E-07	1600
86.0	132	2.660E-07	5.852E-07	1600
87.0	90	1.803E-07	3.967E-07	1600
88.0	69	1.398E-07	3.075E-07	1600
89.0	139	2.795E-07	6.149E-07	1600
90.0	114	2.299E-07	5.058E-07	1600
91.0	376	7.529E-07	1.656E-06	1600
92.0	108	2.164E-07	4.761E-07	1600
93.0	171	3.426E-07	7.538E-07	1600
94.0	144	2.885E-07	6.348E-07	1600
95.0	281	5.635E-07	1.240E-06	1600
96.0	353	7.078E-07	1.557E-06	1600
97.0	358	7.168E-07	1.577E-06	1600

98.0	247	4.959E-07	1.091E-06	1600
99.0	254	5.094E-07	1.121E-06	1600
100.0	462	9.242E-07	2.033E-06	1600
101.0	351	7.033E-07	1.547E-06	1600
102.0	453	9.062E-07	1.994E-06	1600
103.0	412	8.250E-07	1.815E-06	1600
104.0	615	1.231E-06	2.708E-06	1600
105.0	701	1.402E-06	3.085E-06	1600
106.0	714	1.429E-06	3.144E-06	1600
107.0	894	1.790E-06	3.938E-06	1600
108.0	899	1.799E-06	3.957E-06	1600
109.0	1217	2.434E-06	5.356E-06	1600
110.0	987	1.975E-06	4.344E-06	1600
111.0	1467	2.935E-06	6.457E-06	1600
112.0	2195	4.391E-06	9.660E-06	1600
113.0	6104	1.229E-05	2.704E-05	1600
114.0	11383	2.277E-05	5.009E-05	1600
115.0	11455	2.291E-05	5.040E-05	1600
116.0	11802	2.361E-05	5.193E-05	1600
117.0	12019	2.404E-05	5.288E-05	1600
118.0	12402	2.440E-05	5.457E-05	1600
119.0	10023	2.805E-05	6.170E-05	1600
120.0	11793	2.359E-05	5.189E-05	1600
121.0	10236	2.047E-05	4.504E-05	1600
122.0	10558	2.112E-05	4.646E-05	1600
123.0	11049	2.210E-05	4.862E-05	1600
124.0	11232	2.246E-05	4.942E-05	1600
125.0	12487	2.498E-05	5.495E-05	1600
126.0	13412	2.682E-05	5.901E-05	1600
127.0	12654	2.531E-05	5.568E-05	1600
128.0	12774	2.555E-05	5.631E-05	1600
129.0	7932	1.586E-05	3.490E-05	1600
130.0	2517	5.036E-06	1.108E-05	1600
131.0	624	1.249E-06	2.747E-06	1600
132.0	182	3.652E-07	8.034E-07	1600
135.0	85	1.713E-07	3.769E-07	1600
136.0	67	1.352E-07	2.975E-07	1600
137.0	202	4.057E-07	8.926E-07	1600
138.0	22	4.508E-08	9.918E-08	1600
139.0	200	4.012E-07	8.827E-07	1600
140.0	45	9.017E-08	1.984E-07	1600
141.0	31	6.312E-08	1.389E-07	1600
142.0	151	3.021E-07	6.645E-07	1600
143.0	96	1.939E-07	4.265E-07	1600
144.0	405	8.115E-07	1.785E-06	1600
145.0	36	7.213E-08	1.587E-07	1600
147.0	173	3.471E-07	7.637E-07	1600
148.0	114	2.299E-07	5.058E-07	1600
149.0	202	4.057E-07	8.926E-07	1600
150.0	123	2.480E-07	5.455E-07	1600
152.0	105	2.119E-07	4.662E-07	1600
153.0	142	2.840E-07	6.248E-07	1600
154.0	40	8.115E-08	1.785E-07	1600

CROSSWIND INTEGRATED* 1.200E-02 SEC/SQ.M 2.640E-02 1/M

TOWER DATA FOLLOW...

TEST FT15 AUGUST 27, 1963 0224 TO 0301 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC U= 2.2 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.2	142	2.840E-07	6.248E-07	1600
98.0	0.4	369	7.394E-07	1.627E-06	1600
98.0	0.8	137	2.750E-07	6.050E-07	1600
98.0	1.5	130	2.610E-07	5.743E-07	1600
98.0	3.1	224	4.494E-07	9.898E-07	1600
98.0	6.2	182	3.641E-07	8.009E-07	1600
98.0	9.3	133	2.679E-07	5.894E-07	1600
98.0	12.4	39	7.900E-08	1.738E-07	1600
98.0	15.5	22	4.465E-08	9.823E-08	1600
98.0	18.6	12	2.404E-08	5.289E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM.	EU/O 1/SQ.M	DISTANCE METERS
106.0	0.2	550	1.100E-06	2.420E-06	1600
106.0	0.4	644	1.289E-06	2.837E-06	1600
106.0	0.8	574	1.150E-06	2.529E-06	1600
106.0	1.5	499	9.995E-07	2.199E-06	1600
106.0	3.1	530	1.061E-06	2.335E-06	1600
106.0	6.2	503	1.006E-06	2.214E-06	1600
106.0	9.3	276	5.530E-07	1.217E-06	1600
106.0	12.4	192	3.847E-07	8.463E-07	1600
106.0	15.5	149	2.988E-07	6.574E-07	1600
106.0	18.6	56	1.133E-07	2.494E-07	1600
106.0	21.7	118	2.370E-07	5.214E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM.	EU/O 1/SQ.M	DISTANCE METERS
114.0	0.2	8002	1.600E-05	3.521E-05	1600
114.0	0.4	9535	1.907E-05	4.195E-05	1600
114.0	0.8	7091	1.418E-05	3.120E-05	1600
114.0	1.5	11555	2.311E-05	5.084E-05	1600
114.0	3.1	664	1.329E-06	2.924E-06	1600
114.0	6.2	4561	9.122E-06	2.007E-05	1600
114.0	9.3	1294	2.590E-06	5.697E-06	1600
114.0	12.4	959	1.920E-06	4.224E-06	1600
114.0	15.5	516	1.034E-06	2.274E-06	1600
114.0	18.6	360	7.213E-07	1.587E-06	1600
114.0	21.7	319	6.388E-07	1.405E-06	1600
114.0	24.8	127	2.552E-07	5.614E-07	1600
114.0	31.0	31	6.244E-08	1.374E-07	1600
114.0	37.2	33	6.787E-08	1.493E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM.	EU/O 1/SQ.M	DISTANCE METERS
122.0	0.2	6816	1.363E-05	2.999E-05	1600
122.0	0.4	8353	1.671E-05	3.676E-05	1600
122.0	0.8	8281	1.656E-05	3.684E-05	1600
122.0	1.5	7063	1.413E-05	3.108E-05	1600
122.0	3.1	7096	1.579E-05	3.474E-05	1600
122.0	6.2	10161	2.032E-05	4.471E-05	1600
122.0	9.3	12124	2.425E-05	5.335E-05	1600
122.0	12.4	15589	3.118E-05	6.859E-05	1600
122.0	15.5	18661	3.732E-05	8.211E-05	1600
122.0	18.6	16719	3.344E-05	7.357E-05	1600
122.0	21.7	13810	2.762E-05	6.077E-05	1600
Z 122.0	24.8	8764	1.753E-05	3.857E-05	1600
Z 122.0	31.0	5919	1.184E-05	2.605E-05	1600
Z 122.0	37.2	2308	4.618E-06	1.016E-05	1600
Z 122.0	43.4	1001	2.004E-06	4.408E-06	1600
Z 122.0	49.6	198	3.972E-07	8.739E-07	1600
Z 122.0	55.8	68	1.367E-07	3.008E-07	1600
Z 122.0	62.0	12	2.587E-08	5.691E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM.	EU/O 1/SQ.M	DISTANCE METERS
130.0	0.2	2195	4.391E-06	9.660E-06	1600
130.0	0.4	2608	5.216E-06	1.148E-05	1600
130.0	0.8	2461	4.923E-06	1.083E-05	1600
130.0	1.5	2204	4.410E-06	9.702E-06	1600
130.0	3.1	2366	4.733E-06	1.041E-05	1600
130.0	6.2	3810	7.621E-06	1.677E-05	1600
130.0	9.3	2915	5.832E-06	1.283E-05	1600
130.0	12.4	2914	5.828E-06	1.282E-05	1600
130.0	15.5	1827	3.654E-06	8.040E-06	1600
130.0	18.6	1092	2.184E-06	4.806E-06	1600
130.0	21.7	571	1.104E-06	2.516E-06	1600
130.0	24.8	233	4.669E-07	1.027E-06	1600

TEST FT15 AUGUST 27, 1963 0224 TO 0301 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M ARC SAMPLER HT 1.5M U= 2.2 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM.	EU/O 1/SQ.M	DISTANCE METERS
71.0	17	3.466E-08	7.625E-08	3200
75.0	23	4.689E-08	1.032E-07	3200
78.0	24	4.893E-08	1.077E-07	3200
79.0	13	2.650E-08	5.831E-08	3200
80.0	27	5.505E-08	1.211E-07	3200
83.0	94	1.896E-07	4.171E-07	3200
85.0	19	3.874E-08	8.522E-08	3200
86.0	17	3.466E-08	7.625E-08	3200
87.0	22	4.485E-08	9.868E-08	3200
88.0	12	2.447E-08	5.383E-08	3200
89.0	11	2.243E-08	4.934E-08	3200
91.0	15	3.058E-08	6.728E-08	3200
93.0	11	2.243E-08	4.934E-08	3200
94.0	8	1.631E-08	3.588E-08	3200
95.0	11	2.243E-08	4.934E-08	3200
97.0	18	3.670E-08	8.074E-08	3200
98.0	14	2.854E-08	6.280E-08	3200
99.0	26	5.301E-08	1.166E-07	3200
100.0	65	1.305E-07	2.871E-07	3200
101.0	60	1.203E-07	2.646E-07	3200
102.0	34	6.932E-08	1.525E-07	3200
103.0	185	2.916E-07	6.414E-07	3200
104.0	506	1.013E-06	2.229E-06	3200
105.0	1205	2.412E-06	5.306E-06	3200
106.0	1636	3.272E-06	7.199E-06	3200
107.0	1254	2.510E-06	5.522E-06	3200
108.0	1856	3.713E-06	8.168E-06	3200
109.0	1981	3.963E-06	8.720E-06	3200
110.0	2490	4.981E-06	1.096E-05	3200
111.0	2942	5.880E-06	1.294E-05	3200
112.0	3641	7.283E-06	1.602E-05	3200
113.0	3298	6.598E-06	1.451E-05	3200
114.0	2619	5.240E-06	1.153E-05	3200
115.0	1433	2.867E-06	6.307E-06	3200
116.0	1040	2.082E-06	4.580E-06	3200
117.0	1816	3.633E-06	7.993E-06	3200
118.0	2907	5.815E-06	1.279E-05	3200
119.0	3044	6.090E-06	1.340E-05	3200
120.0	2805	5.611E-06	1.234E-05	3200
121.0	2846	5.692E-06	1.252E-05	3200
122.0	2300	4.602E-06	1.012E-05	3200
123.0	1614	3.230E-06	7.105E-06	3200
124.0	1418	2.836E-06	6.239E-06	3200
125.0	1322	2.644E-06	5.818E-06	3200
126.0	1689	3.378E-06	7.432E-06	3200
127.0	1237	2.475E-06	5.445E-06	3200
128.0	1044	2.090E-06	4.598E-06	3200
129.0	592	1.185E-06	2.606E-06	3200
130.0	284	5.688E-07	1.251E-06	3200
131.0	25	5.097E-08	1.121E-07	3200

CROSSWIND INTEGRATED= 5.798E-03 1.276E-02

TOWER DATA FOLLOW...

TEST F115 AUGUST 27, 1963 0224 TO 0301 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M APC U= 2.2 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.2	29	5.913E-08	1.301E-07	3200
98.0	0.4	33	6.724E-08	1.480E-07	3200
98.0	0.8	60	1.203E-07	2.646E-07	3200
98.0	1.5	8	1.664E-08	3.670E-08	3200
98.0	3.1	15	3.151E-08	6.932E-08	3200
98.0	6.2	7	1.483E-08	3.262E-08	3200
98.0	9.3	7	1.483E-08	3.262E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.2	1520	3.042E-06	6.692E-06	3200
106.0	0.4	1108	2.216E-06	4.876E-06	3200
106.0	0.8	1499	2.999E-06	6.598E-06	3200
106.0	1.5	1581	3.164E-06	6.961E-06	3200
106.0	3.1	1627	3.255E-06	7.160E-06	3200
106.0	6.2	1480	2.960E-06	6.512E-06	3200
106.0	9.3	1145	2.291E-06	5.040E-06	3200
106.0	12.4	960	1.920E-06	4.224E-06	3200
106.0	15.5	713	1.427E-06	3.140E-06	3200
106.0	18.6	621	1.244E-06	2.736E-06	3200
106.0	21.7	470	9.416E-07	2.071E-06	3200
106.0	24.8	321	6.425E-07	1.414E-06	3200
106.0	31.0	101	2.022E-07	4.449E-07	3200
106.0	37.2	21	4.240E-08	9.328E-08	3200
106.0	43.4	8	1.631E-08	3.588E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.2	2794	5.588E-06	1.229E-05	3200
114.0	0.4	2967	5.935E-06	1.306E-05	3200
114.0	0.8	3176	6.353E-06	1.398E-05	3200
114.0	1.5	2927	5.855E-06	1.288E-05	3200
114.0	3.1	3290	6.582E-06	1.448E-05	3200
114.0	6.2	3914	7.829E-06	1.722E-05	3200
114.0	9.3	4106	8.213E-06	1.867E-05	3200
114.0	12.4	3215	6.432E-06	1.415E-05	3200
114.0	15.5	2484	4.969E-06	1.093E-05	3200
114.0	18.6	1927	3.855E-06	8.482E-06	3200
114.0	21.7	1565	3.131E-06	6.887E-06	3200
114.0	24.8	906	1.813E-06	3.990E-06	3200
114.0	31.0	569	1.140E-06	2.508E-06	3200
114.0	37.2	268	5.365E-07	1.180E-06	3200
114.0	43.4	189	3.783E-07	8.323E-07	3200
114.0	49.6	35	7.159E-08	1.575E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
122.0	0.2	1894	3.788E-06	8.334E-06	3200
122.0	0.4	2151	4.304E-06	9.469E-06	3200
122.0	0.8	2389	4.779E-06	1.051E-05	3200
122.0	1.5	2258	4.517E-06	9.937E-06	3200
122.0	3.1	2278	4.558E-06	1.003E-05	3200
122.0	6.2	2562	5.125E-06	1.127E-05	3200
122.0	9.3	2905	5.811E-06	1.278E-05	3200
122.0	12.4	3023	6.048E-06	1.331E-05	3200
122.0	15.5	2861	5.724E-06	1.259E-05	3200
122.0	18.6	2139	4.288E-06	9.415E-06	3200
122.0	21.7	2267	4.535E-06	9.978E-06	3200
122.0	24.8	2040	4.082E-06	8.980E-06	3200
122.0	31.0	1781	3.563E-06	7.839E-06	3200
122.0	37.2	1070	2.141E-06	4.711E-06	3200
122.0	43.4	421	8.431E-07	1.855E-06	3200
122.0	49.6	152	3.043E-07	6.694E-07	3200
122.0	55.8	70	1.496E-07	3.291E-07	3200
122.0	62.0	45	9.077E-08	1.997E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
130.0	0.2	459	9.195E-07	2.023E-06	3200
130.0	0.4	215	4.302E-07	9.464E-07	3200
130.0	0.8	130	2.610E-07	5.741E-07	3200
130.0	1.5	241	4.838E-07	1.064E-06	3200
130.0	3.1	388	7.766E-07	1.709E-06	3200
130.0	6.2	322	6.450E-07	1.419E-06	3200
130.0	9.3	281	5.635E-07	1.240E-06	3200
130.0	12.4	197	2.947E-07	6.483E-07	3200
130.0	15.5	48	9.638E-08	2.120E-07	3200
130.0	18.6	32	6.487E-08	1.427E-07	3200
130.0	21.7	40	1.614E-07	3.552E-07	3200
130.0	37.2				

SERIES '63 EXPERIMENT: 16 (FT-16)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS.

TEST F116 SEPTEMBER 6, 1963 0402 TO 0444 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU,M X10E+6	E/O SEC/CU,M	EU/O 1/SQ,M	DISTANCE METERS
68.0	70	1.285E-07	1.799E-07	200
70.0	335	6.103E-07	8.545E-07	200
72.0	60	1.092E-07	1.529E-07	200
74.0	204	3.726E-07	5.217E-07	200
76.0	141	2.570E-07	3.598E-07	200
78.0	561	1.022E-06	1.430E-06	200
80.0	91	1.670E-07	2.339E-07	200
82.0	293	5.332E-07	7.465E-07	200
84.0	434	7.902E-07	1.106E-06	200
86.0	300	5.461E-07	7.645E-07	200
88.0	42	7.709E-08	1.079E-07	200
90.0	964	1.754E-06	2.455E-06	200
92.0	1250	2.274E-06	3.184E-06	200
94.0	1819	3.309E-06	4.632E-06	200
96.0	2314	4.208E-06	5.891E-06	200
98.0	2932	5.312E-06	7.465E-06	200
100.0	3971	7.221E-06	1.011E-05	200
102.0	5353	9.733E-06	1.363E-05	200
104.0	5501	1.000E-05	1.400E-05	200
106.0	3964	7.208E-06	1.009E-05	200
108.0	678	1.234E-06	1.727E-06	200
110.0	3042	5.532E-06	7.744E-06	200
112.0	1720	3.129E-06	4.380E-06	200
114.0	1014	1.844E-06	2.581E-06	200
116.0	2096	3.816E-06	5.343E-06	200
118.0	975	1.773E-06	2.482E-06	200
120.0	1413	2.570E-06	3.598E-06	200
122.0	1127	2.049E-06	2.869E-06	200
4 124.0	462	8.416E-07	1.178E-06	200
7 126.0	696	1.266E-06	1.772E-06	200
8 128.0	1222	2.273E-06	3.112E-06	200
130.0	3045	5.538E-06	7.753E-06	200
132.0	1240	2.255E-06	3.157E-06	200
134.0	1095	1.992E-06	2.788E-06	200
136.0	2024	3.681E-06	5.154E-06	200
138.0	593	1.079E-06	1.511E-06	200
140.0	1003	1.825E-06	2.554E-06	200
142.0	2671	4.857E-06	6.800E-06	200
144.0	3169	5.763E-06	8.068E-06	200
146.0	3780	6.874E-06	9.624E-06	200
148.0	1431	2.602E-06	3.643E-06	200
150.0	466	8.480E-07	1.187E-06	200
152.0	558	1.015E-06	1.421E-06	200
154.0	53	9.637E-08	1.349E-07	200
156.0	38	7.067E-08	9.894E-08	200

CROSSWIND INTEGRATED= 8.408E-04 1.177E-03
SEC/SQ,M 1/M

TOWER DATA FOLLOW....

TEST F116 SEPTEMBER 6, 1963 0402 TO 0444 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC U= 1.4 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	E/O SEC/CU,M	EU/O 1/SQ,M	DISTANCE METERS
98.0	0.3	3056	5.557E-06	7.780E-06	200
98.0	0.7	2855	5.191E-06	7.267E-06	200
98.0	1.4	2603	4.734E-06	6.627E-06	200
98.0	2.7	3129	5.690E-06	7.965E-06	200
98.0	4.1	2586	4.703E-06	6.584E-06	200
98.0	5.4	1410	2.565E-06	3.591E-06	200
98.0	6.8	3069	5.582E-06	7.814E-06	200
98.0	8.1	3086	5.613E-06	7.858E-06	200
98.0	9.4	17950	3.264E-05	4.569E-05	200
98.0	10.8	14063	2.557E-05	3.580E-05	200
98.0	13.5	14956	2.719E-05	3.807E-05	200
98.0	16.2	14199	2.582E-05	3.614E-05	200
98.0	18.9	3069	5.582E-06	7.814E-06	200
98.0	21.6	975	1.773E-06	2.482E-06	200
98.0	24.3	173	3.147E-07	4.406E-07	200
98.0	27.0	254	4.628E-07	6.479E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	E/O SEC/CU,M	EU/O 1/SQ,M	DISTANCE METERS
106.0	0.3	4392	7.986E-06	1.118E-05	200
106.0	0.7	4028	7.324E-06	1.025E-05	200
106.0	1.4	4186	7.612E-06	1.066E-05	200
106.0	2.7	3434	6.245E-06	8.743E-06	200
106.0	4.1	2383	4.333E-06	6.066E-06	200
106.0	5.4	8395	1.526E-05	2.137E-05	200
106.0	6.8	9401	1.709E-05	2.393E-05	200
106.0	8.1	11539	2.098E-05	2.937E-05	200
106.0	9.4	7748	1.409E-05	1.972E-05	200
106.0	10.8	10394	1.890E-05	2.646E-05	200
106.0	13.5	8121	1.477E-05	2.067E-05	200
106.0	16.2	7533	1.370E-05	1.918E-05	200
106.0	18.9	1503	2.730E-06	3.828E-06	200
106.0	21.6	163	2.981E-07	4.173E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	E/O SEC/CU,M	EU/O 1/SQ,M	DISTANCE METERS
114.0	0.3	844	1.535E-06	2.150E-06	200
114.0	0.7	413	7.517E-07	1.052E-06	200
114.0	1.4	658	1.198E-06	1.677E-06	200
114.0	2.7	2702	4.914E-06	6.879E-06	200
114.0	4.1	4056	7.375E-06	1.033E-05	200
114.0	5.4	7736	1.407E-05	1.969E-05	200
114.0	6.8	13526	2.459E-05	3.443E-05	200
114.0	8.1	26060	4.738E-05	6.634E-05	200
114.0	9.4	42998	7.818E-05	1.095E-04	200
114.0	10.8	60499	1.100E-04	1.540E-04	200
114.0	13.5	99433	1.808E-04	2.531E-04	200
114.0	16.2	91300	1.660E-04	2.324E-04	200
114.0	18.9	88646	8.845E-05	1.238E-04	200
114.0	21.6	28587	5.198E-05	7.277E-05	200
114.0	24.3	4184	7.608E-06	1.065E-05	200
114.0	27.0	962	1.749E-06	2.449E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SG.M	DISTANCE METERS
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122.0	0.3	1293	2.351E-06	3.292E-06	200
122.0	0.7	1180	2.146E-06	3.004E-06	200
122.0	1.4	709	1.290E-06	1.806E-06	200
122.0	2.7	1667	3.032E-06	4.245E-06	200
122.0	4.1	5896	1.072E-05	1.501E-05	200
122.0	5.4	13636	2.477E-05	3.471E-05	200
122.0	6.8	18193	3.348E-05	4.631E-05	200
122.0	8.1	21263	3.866E-05	5.412E-05	200
122.0	9.4	31728	5.769E-05	8.076E-05	200
122.0	10.8	62769	1.141E-04	1.598E-04	200
122.0	13.5	95025	1.728E-04	2.419E-04	200
122.0	16.2	99314	1.806E-04	2.528E-04	200
122.0	18.9	61669	1.121E-04	1.570E-04	200
122.0	21.6	20926	3.805E-05	5.327E-05	200
122.0	24.3	5491	9.894E-06	1.385E-05	200
122.0	27.0	7009	1.274E-05	1.784E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SG.M	DISTANCE METERS
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130.0	0.3	823	1.497E-06	2.096E-06	200
130.0	0.7	1325	2.409E-06	3.373E-06	200
130.0	1.4	1990	3.618E-06	5.066E-06	200
130.0	2.7	2459	4.472E-06	6.260E-06	200
130.0	4.1	4732	8.604E-06	1.205E-05	200
130.0	5.4	6654	1.210E-05	1.694E-05	200
130.0	6.8	21483	3.906E-05	5.469E-05	200
130.0	8.1	76247	1.386E-04	1.941E-04	200
130.0	9.4	136639	2.484E-04	3.478E-04	200
130.0	10.8	168116	3.057E-04	4.279E-04	200
130.0	13.5	150768	2.741E-04	3.838E-04	200
130.0	16.2	94093	1.711E-04	2.395E-04	200
130.0	18.9	77392	1.407E-04	1.970E-04	200
130.0	21.6	50457	9.247E-05	1.295E-04	200
130.0	24.3	17197	3.127E-05	4.378E-05	200
130.0	27.0	2863	5.206E-06	7.289E-06	200

TEST F116 SEPTEMBER 6, 1963 0402 TO 0444 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
800M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SG.M	DISTANCE METERS
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70.0	37	6.836E-08	9.571E-08	800
72.0	164	2.983E-07	4.176E-07	800
74.0	157	2.859E-07	4.002E-07	800
76.0	116	2.113E-07	2.958E-07	800
78.0	136	2.486E-07	3.480E-07	800
80.0	30	5.593E-08	7.830E-08	800
82.0	146	2.672E-07	3.741E-07	800
84.0	232	4.226E-07	5.916E-07	800
86.0	321	5.842E-07	8.178E-07	800
88.0	509	9.260E-07	1.296E-06	800
90.0	799	1.454E-06	2.036E-06	800
92.0	762	1.386E-06	1.940E-06	800
94.0	1531	2.784E-06	3.898E-06	800
96.0	1442	2.623E-06	3.672E-06	800
98.0	1814	3.300E-06	4.620E-06	800
100.0	2409	4.381E-06	6.134E-06	800
102.0	3165	5.755E-06	8.057E-06	800
104.0	5554	1.010E-05	1.414E-05	800
106.0	4327	7.868E-06	1.101E-05	800
108.0	5509	1.002E-05	1.403E-05	800
110.0	8456	1.537E-05	2.152E-05	800
112.0	8565	1.557E-05	2.180E-05	800
114.0	8138	1.480E-05	2.072E-05	800
116.0	15914	2.894E-05	4.051E-05	800
118.0	20118	3.658E-05	5.121E-05	800
120.0	14400	2.618E-05	3.666E-05	800
122.0	17616	3.203E-05	4.484E-05	800
124.0	17681	3.215E-05	4.501E-05	800
126.0	18009	3.274E-05	4.588E-05	800
128.0	21431	3.897E-05	5.455E-05	800
130.0	26281	4.778E-05	6.690E-05	800
132.0	14564	2.648E-05	3.707E-05	800
134.0	11973	2.177E-05	3.048E-05	800
136.0	8257	1.501E-05	2.102E-05	800
138.0	1309	2.380E-06	3.332E-06	800
140.0	420	7.644E-07	1.070E-06	800
142.0	61	1.119E-07	1.566E-07	800

CROSSWIND INTEGRATED= 1.231E-02 SEC/SG.M 1.723E-02 1/M

TOWER DATA FOLLOWS...

TEST F116 SEPTEMBER 6, 1963 0402 TO 0444 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
800M ARC U= 1.4 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SG.M	DISTANCE METERS
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98.0	0.3	1199	2.181E-06	3.054E-06	800
98.0	0.5	2262	4.114E-06	5.760E-06	800
98.0	1.0	1900	3.455E-06	4.837E-06	800
98.0	2.1	943	1.715E-06	2.401E-06	800
98.0	4.2	527	9.595E-07	1.343E-06	800
98.0	6.3	792	1.442E-06	2.019E-06	800
98.0	8.4	1476	2.685E-06	3.759E-06	800
98.0	10.5	1640	2.983E-06	4.176E-06	800
98.0	12.6	1348	2.451E-06	3.431E-06	800
98.0	14.7	1244	2.262E-06	3.167E-06	800
98.0	16.8	918	1.670E-06	2.339E-06	800
98.0	21.0	1747	3.177E-06	4.488E-06	800
98.0	25.2	305	5.551E-07	7.771E-07	800
98.0	29.4	100	1.835E-07	2.569E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	E/O SEC/CU,M	EU/Q 1/SQ,M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	E/O SEC/CU,M	EU/Q 1/SQ,M	DISTANCE METERS
106.0	0.3	365	6.65CE-07	9.310E-07	800	130.0	0.3	19240	3.49AE-05	4.897E-05	800
106.0	0.5	5547	1.009E-05	1.412E-05	800	130.0	0.5	16160	2.93AE-05	4.114E-05	800
106.0	1.0	4000	7.274E-06	1.018E-05	800	130.0	1.0	13374	2.432E-05	3.404E-05	800
106.0	2.1	3133	5.698E-06	7.977E-06	800	130.0	2.1	23767	4.321E-05	6.050E-05	800
106.0	4.2	1121	2.03AE-06	2.854E-06	800	130.0	4.2	30863	5.612E-05	7.856E-05	800
106.0	6.3	768	1.397E-06	1.956E-06	800	130.0	6.3	20286	3.6F9E-05	5.164E-05	800
106.0	8.4	1471	2.675E-06	3.745E-06	800	130.0	8.4	16321	2.968E-05	4.155E-05	800
106.0	10.5	3073	5.58AE-06	7.823E-06	800	130.0	10.5	19477	3.541E-05	4.958E-05	800
106.0	12.6	2488	4.524E-06	6.334E-06	800	130.0	12.6	21213	3.857E-05	5.400E-05	800
106.0	14.7	2988	5.434E-06	7.608E-06	800	130.0	14.7	22635	4.116E-05	5.762E-05	800
106.0	16.8	2441	4.440E-06	6.216E-06	800	130.0	16.8	20114	3.657E-05	5.120E-05	800
106.0	21.0	855	1.556E-06	2.179E-06	800	130.0	21.0	14730	2.678E-05	3.750E-05	800
106.0	25.2	295	5.372E-07	7.520E-07	800	130.0	25.2	8479	1.542E-05	2.158E-05	800
106.0	29.4	155	2.82AE-07	3.94AE-07	800	130.0	29.4	4276	7.776E-06	1.089E-05	800
106.0	33.6	130	2.372E-07	3.321E-07	800	130.0	33.6	1868	3.398E-06	4.757E-06	800
						130.0	37.8	573	1.043E-06	1.460E-06	800
						130.0	42.0	221	4.029E-07	5.640E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	E/O SEC/CU,M	EU/Q 1/SQ,M	DISTANCE METERS
114.0	0.3	11317	2.05FE-05	2.881E-05	800
114.0	0.5	7769	1.413E-05	1.978E-05	800
114.0	1.0	7866	1.430E-05	2.003E-05	800
114.0	2.1	8285	1.50AE-05	2.109E-05	800
114.0	4.2	3899	7.09AE-06	9.926E-06	800
114.0	6.3	1487	2.705E-06	3.786E-06	800
114.0	8.4	1968	3.580E-06	5.011E-06	800
114.0	10.5	6250	1.137E-05	1.591E-05	800
114.0	12.6	12808	2.329E-05	3.260E-05	800
114.0	14.7	11200	2.036E-05	2.851E-05	800
114.0	16.8	8184	1.488E-05	2.083E-05	800
114.0	21.0	4063	7.388E-06	1.034E-05	800
114.0	25.2	654	1.191E-06	1.667E-06	800
114.0	29.4	110	2.014E-07	2.820E-07	800
114.0	33.6	34	6.267E-08	8.774E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	E/O SEC/CU,M	EU/Q 1/SQ,M	DISTANCE METERS
122.0	0.3	11419	2.076E-05	2.907E-05	800
122.0	0.5	13210	2.402E-05	3.363E-05	800
122.0	1.0	11131	2.024E-05	2.834E-05	800
122.0	2.1	14322	2.604E-05	3.646E-05	800
122.0	4.2	30565	5.557E-05	7.780E-05	800
122.0	6.3	25140	4.571E-05	6.399E-05	800
122.0	8.4	25432	4.624E-05	6.474E-05	800
122.0	10.5	23269	4.234E-05	5.928E-05	800
122.0	12.6	21541	3.917E-05	5.483E-05	800
122.0	14.7	18203	3.310E-05	4.634E-05	800
122.0	16.8	12728	2.314E-05	3.240E-05	800
122.0	21.0	5474	9.953E-06	1.393E-05	800
122.0	25.2	1595	2.901E-06	4.061E-06	800
122.0	29.4	497	9.042E-07	1.266E-06	800
122.0	33.6	174	3.178E-07	4.450E-07	800
122.0	37.8	51	9.400E-08	1.316E-07	800
122.0	42.0	39	7.162E-08	1.003E-07	800

TEST FT16 SEPTEMBER 6, 1963 0402 TO 0444 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
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70.0	81	1.475E-07	2.066E-07	1600
71.0	112	2.049E-07	2.869E-07	1600
72.0	110	2.008E-07	2.812E-07	1600
73.0	157	2.869E-07	4.016E-07	1600
74.0	142	2.582E-07	3.615E-07	1600
75.0	187	3.402E-07	4.762E-07	1600
76.0	216	3.935E-07	5.508E-07	1600
77.0	259	4.713E-07	6.598E-07	1600
78.0	268	4.877E-07	6.828E-07	1600
79.0	288	5.246E-07	7.344E-07	1600
80.0	342	6.230E-07	8.721E-07	1600
81.0	369	6.721E-07	9.410E-07	1600
82.0	365	6.639E-07	9.295E-07	1600
83.0	509	9.262E-07	1.297E-06	1600
84.0	493	8.976E-07	1.257E-06	1600
85.0	486	8.853E-07	1.239E-06	1600
86.0	561	1.021E-06	1.429E-06	1600
87.0	610	1.111E-06	1.555E-06	1600
88.0	622	1.131E-06	1.584E-06	1600
89.0	750	1.365E-06	1.911E-06	1600
90.0	1113	2.025E-06	2.834E-06	1600
91.0	1406	2.557E-06	3.580E-06	1600
92.0	1032	1.877E-06	2.628E-06	1600
93.0	906	1.648E-06	2.307E-06	1600
94.0	773	1.406E-06	1.968E-06	1600
95.0	1214	2.209E-06	3.093E-06	1600
96.0	1309	2.381E-06	3.334E-06	1600
97.0	1611	2.930E-06	4.103E-06	1600
98.0	1131	2.057E-06	2.880E-06	1600
99.0	1611	2.930E-06	4.103E-06	1600
100.0	1602	2.914E-06	4.080E-06	1600
101.0	2745	4.992E-06	6.989E-06	1600
102.0	2254	4.098E-06	5.736E-06	1600
103.0	3316	6.033E-06	8.446E-06	1600
104.0	2826	5.139E-06	7.195E-06	1600
105.0	2853	5.189E-06	7.264E-06	1600
106.0	3579	6.508E-06	9.112E-06	1600
107.0	3762	6.840E-06	9.576E-06	1600
108.0	4548	8.271E-06	1.158E-05	1600
109.0	4019	7.308E-06	1.023E-05	1600
110.0	6020	1.095E-05	1.533E-05	1600
111.0	8508	1.511E-05	2.115E-05	1600
112.0	8349	1.518E-05	2.125E-05	1600
113.0	9287	1.689E-05	2.364E-05	1600
114.0	8820	1.608E-05	2.245E-05	1600
115.0	14270	2.595E-05	3.633E-05	1600
116.0	15981	2.906E-05	4.062E-05	1600
117.0	18481	3.360E-05	4.704E-05	1600
118.0	19083	3.470E-05	4.854E-05	1600
119.0	18743	3.408E-05	4.771E-05	1600
120.0	20413	3.712E-05	5.196E-05	1600
121.0	26053	4.737E-05	6.632E-05	1600
122.0	25591	4.653E-05	6.514E-05	1600
123.0	25377	4.614E-05	6.460E-05	1600
124.0	19696	3.581E-05	5.014E-05	1600
125.0	30466	5.539E-05	7.755E-05	1600
126.0	28902	5.255E-05	7.357E-05	1600
127.0	26776	4.869E-05	6.816E-05	1600
128.0	38036	6.916E-05	9.682E-05	1600
129.0	34824	6.332E-05	8.864E-05	1600
130.0	37179	6.760E-05	9.464E-05	1600
131.0	30933	5.624E-05	7.874E-05	1600
132.0	23990	4.362E-05	6.107E-05	1600
133.0	18896	3.436E-05	4.810E-05	1600
134.0	14814	2.693E-05	3.771E-05	1600
135.0	4316	7.853E-06	1.099E-05	1600
136.0	1465	2.664E-06	3.730E-06	1600
137.0	1205	2.193E-06	3.070E-06	1600
138.0	1118	2.033E-06	2.846E-06	1600
139.0	552	1.004E-06	1.406E-06	1600
140.0	331	6.025E-07	8.435E-07	1600
141.0	214	3.894E-07	5.451E-07	1600
142.0	29	5.328E-08	7.459E-08	1600

CROSSWIND INTEGRATED= 2.991E-02 4.187E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST FT16 SEPTEMBER 6, 1963 0402 TO 0444 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC U= 1.4 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
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98.0	0.2	2001	3.639E-06	5.095E-06	1600
98.0	0.4	1483	2.697E-06	3.775E-06	1600
98.0	0.8	1535	2.791E-06	3.907E-06	1600
98.0	1.5	807	1.468E-06	2.056E-06	1600
98.0	3.1	515	9.373E-07	1.312E-06	1600
98.0	6.2	72	1.319E-07	1.846E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
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106.0	0.2	3708	6.742E-06	9.439E-06	1600
106.0	0.4	4165	7.574E-06	1.060E-05	1600
106.0	0.8	4052	7.369E-06	1.032E-05	1600
106.0	1.5	2704	4.918E-06	6.885E-06	1600
106.0	3.1	1195	2.174E-06	3.044E-06	1600
106.0	6.2	486	8.838E-07	1.237E-06	1600
106.0	9.3	629	1.144E-06	1.602E-06	1600
106.0	12.4	917	9.409E-07	1.317E-06	1600
106.0	15.5	478	8.696E-07	1.217E-06	1600
106.0	18.6	411	7.484E-07	1.048E-06	1600
106.0	21.7	295	5.381E-07	7.534E-07	1600
106.0	24.8	454	8.265E-07	1.157E-06	1600
106.0	31.0	121	2.211E-07	3.095E-07	1600
106.0	37.2	24	4.421E-08	6.190E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
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114.0	0.2	7839	1.425E-05	1.996E-05	1600
114.0	0.4	7170	1.304E-05	1.825E-05	1600
114.0	0.8	7181	1.306E-05	1.828E-05	1600
114.0	1.5	9332	1.697E-05	2.375E-05	1600
114.0	3.1	139	2.530E-07	3.542E-07	1600
114.0	6.2	1391	2.530E-06	3.542E-06	1600
114.0	9.3	678	1.233E-06	1.726E-06	1600
114.0	12.4	1603	2.915E-06	4.081E-06	1600
114.0	15.5	1556	2.830E-06	3.962E-06	1600
114.0	18.6	1332	2.423E-06	3.393E-06	1600
114.0	21.7	1315	2.391E-06	3.348E-06	1600
114.0	24.8	759	1.381E-06	1.933E-06	1600
114.0	31.0	177	3.231E-07	4.523E-07	1600
114.0	37.2	114	2.075E-07	2.905E-07	1600
114.0	43.4	22	4.081E-08	5.714E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
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122.0	0.2	19775	3.596E-05	5.034E-05	1600
122.0	0.4	19644	3.572E-05	5.001E-05	1600
122.0	0.8	17246	3.145E-05	4.403E-05	1600
122.0	1.5	19691	3.580E-05	5.012E-05	1600
122.0	3.1	21224	3.859E-05	5.403E-05	1600
122.0	6.2	8061	1.466E-05	2.052E-05	1600
122.0	9.3	5186	9.430E-06	1.320E-05	1600
122.0	12.4	6652	1.210E-05	1.693E-05	1600
122.0	15.5	4821	8.767E-06	1.227E-05	1600
122.0	18.6	2957	5.378E-06	7.529E-06	1600
122.0	21.7	3157	5.741E-06	8.038E-06	1600
122.0	24.8	4276	7.775E-06	1.088E-05	1600
122.0	31.0	1537	2.796E-06	3.914E-06	1600
122.0	37.2	920	1.673E-06	2.343E-06	1600
122.0	43.4	130	2.381E-07	3.333E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
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130.0	0.2	16520	3.004E-05	4.205E-05	1600
130.0	0.4	17187	3.125E-05	4.375E-05	1600
130.0	0.8	19532	3.551E-05	4.972E-05	1600
130.0	1.5	25910	4.711E-05	6.595E-05	1600
130.0	3.1	34674	6.304E-05	8.826E-05	1600
130.0	6.2	24070	4.376E-05	6.127E-05	1600
130.0	9.3	17200	3.127E-05	4.378E-05	1600
130.0	12.4	13693	2.490E-05	3.486E-05	1600
130.0	15.5	10404	1.892E-05	2.648E-05	1600
130.0	18.6	6676	1.214E-05	1.699E-05	1600
130.0	21.7	5735	1.043E-05	1.460E-05	1600
130.0	24.8	3630	6.602E-06	9.242E-06	1600
130.0	31.0	1382	2.513E-06	3.519E-06	1600
130.0	37.2	355	6.462E-07	9.047E-07	1600
130.0	43.4	54	9.863E-08	1.381E-07	1600

TEST FT16 SEPTEMBER 6, 1963 0402 TO 0444 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
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71.0	75	1.372E-07	1.920E-07	3200
72.0	103	1.891E-07	2.647E-07	3200
73.0	128	2.335E-07	3.270E-07	3200
74.0	114	2.076E-07	2.906E-07	3200
75.0	110	2.002E-07	2.802E-07	3200
76.0	165	3.003E-07	4.204E-07	3200
77.0	143	2.613E-07	3.659E-07	3200
78.0	215	3.911E-07	5.475E-07	3200
79.0	239	4.356E-07	6.098E-07	3200
80.0	320	5.820E-07	8.148E-07	3200
81.0	360	6.561E-07	9.186E-07	3200
82.0	348	6.339E-07	8.874E-07	3200
83.0	446	8.118E-07	1.137E-06	3200
84.0	454	8.267E-07	1.157E-06	3200
85.0	565	1.029E-06	1.440E-06	3200
86.0	720	1.310E-06	1.835E-06	3200
87.0	900	1.637E-06	2.291E-06	3200
88.0	1068	1.942E-06	2.719E-06	3200
89.0	988	1.798E-06	2.517E-06	3200
90.0	1158	2.106E-06	2.948E-06	3200
91.0	1196	2.176E-06	3.046E-06	3200
92.0	1475	2.682E-06	3.755E-06	3200
93.0	1345	2.447E-06	3.425E-06	3200
94.0	1506	2.739E-06	3.835E-06	3200
95.0	1569	2.854E-06	3.996E-06	3200
96.0	1274	2.317E-06	3.244E-06	3200
97.0	2060	3.746E-06	5.244E-06	3200
98.0	1877	3.414E-06	4.780E-06	3200
99.0	1818	3.307E-06	4.629E-06	3200
100.0	2015	3.664E-06	5.130E-06	3200
101.0	2573	4.678E-06	6.549E-06	3200
102.0	2840	5.164E-06	7.229E-06	3200
103.0	3159	5.744E-06	8.042E-06	3200
104.0	2898	5.269E-06	7.377E-06	3200
105.0	2234	4.063E-06	5.688E-06	3200
106.0	1776	3.231E-06	4.523E-06	3200
107.0	2955	5.373E-06	7.523E-06	3200
108.0	2389	4.345E-06	6.082E-06	3200
109.0	1727	3.142E-06	4.398E-06	3200
110.0	2544	4.626E-06	6.477E-06	3200
111.0	2320	4.219E-06	5.906E-06	3200
112.0	1545	2.810E-06	3.934E-06	3200
113.0	2273	4.133E-06	5.787E-06	3200
114.0	1608	2.925E-06	4.095E-06	3200
115.0	1987	3.614E-06	5.060E-06	3200
116.0	916	1.666E-06	2.333E-06	3200
117.0	1595	2.901E-06	4.061E-06	3200
118.0	864	1.572E-06	2.200E-06	3200
119.0	1464	2.663E-06	3.729E-06	3200
120.0	1861	3.384E-06	4.738E-06	3200
121.0	994	1.809E-06	2.533E-06	3200
122.0	390	7.099E-07	9.938E-07	3200
123.0	423	7.692E-07	1.077E-06	3200
124.0	551	1.003E-06	1.404E-06	3200
125.0	335	6.098E-07	8.537E-07	3200
126.0	320	5.820E-07	8.148E-07	3200
127.0	242	4.411E-07	6.176E-07	3200
128.0	127	2.317E-07	3.244E-07	3200
129.0	73	1.335E-07	1.868E-07	3200
131.0	13	2.410E-08	3.373E-08	3200
132.0	12	2.224E-08	3.114E-08	3200

CROSSWIND INTEGRATED= 7.092E-03 9.929E-03
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST FT16 SEPTEMBER 6, 1963 0402 TO 0444 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M ARC U= 1.4 W/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.2	2167	3.941E-06	5.517E-06	3200
98.0	0.4	2070	3.764E-06	5.270E-06	3200
98.0	0.8	2391	4.348E-06	6.088E-06	3200
98.0	1.5	2213	4.025E-06	5.635E-06	3200
98.0	3.1	1793	3.260E-06	4.565E-06	3200
98.0	6.2	921	1.675E-06	2.345E-06	3200
98.0	9.3	629	1.140E-06	1.601E-06	3200
98.0	12.4	435	7.926E-07	1.110E-06	3200
98.0	15.5	299	5.437E-07	7.612E-07	3200
98.0	18.6	204	3.725E-07	5.214E-07	3200
98.0	21.7	177	3.230E-07	4.523E-07	3200
98.0	24.8	65	1.196E-07	1.675E-07	3200
98.0	31.0	37	6.740E-08	9.436E-08	3200
98.0	37.2	15	2.864E-08	4.010E-08	3200
98.0	43.4	24	4.381E-08	6.133E-08	3200
98.0	49.6	9	1.721E-08	2.410E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.2	808	1.470E-06	2.058E-06	3200
106.0	0.4	1351	2.458E-06	3.441E-06	3200
106.0	0.8	1366	2.480E-06	3.477E-06	3200
106.0	1.5	1955	3.555E-06	4.977E-06	3200
106.0	3.1	2665	4.846E-06	6.784E-06	3200
106.0	6.2	1885	3.428E-06	4.799E-06	3200
106.0	9.3	1479	2.690E-06	3.766E-06	3200
106.0	12.4	1004	1.836E-06	2.570E-06	3200
106.0	15.5	769	1.400E-06	1.960E-06	3200
106.0	18.6	767	1.396E-06	1.955E-06	3200
106.0	21.7	602	1.096E-06	1.535E-06	3200
106.0	24.8	493	8.981E-07	1.257E-06	3200
106.0	31.0	253	4.600E-07	6.440E-07	3200
106.0	37.2	204	3.791E-07	5.308E-07	3200
106.0	43.4	132	2.418E-07	3.373E-07	3200
106.0	49.6	69	1.268E-07	1.775E-07	3200
106.0	55.8	76	1.393E-07	1.950E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.2	76	1.390E-07	1.946E-07	3200
114.0	0.4	49	9.082E-08	1.271E-07	3200
114.0	0.8	35	6.487E-08	9.082E-08	3200
114.0	1.5	2720	5.056E-06	7.078E-06	3200
114.0	3.1	3529	6.417E-06	8.983E-06	3200
114.0	6.2	3055	5.555E-06	7.777E-06	3200
114.0	9.3	3063	5.569E-06	7.797E-06	3200
114.0	12.4	2842	5.169E-06	7.236E-06	3200
114.0	15.5	2549	4.635E-06	6.490E-06	3200
114.0	18.6	2234	4.064E-06	5.689E-06	3200
114.0	21.7	2099	3.816E-06	5.343E-06	3200
114.0	24.8	1981	3.603E-06	5.044E-06	3200
114.0	31.0	1462	2.659E-06	3.722E-06	3200
114.0	37.2	927	1.607E-06	2.361E-06	3200
114.0	43.4	545	9.925E-07	1.389E-06	3200
114.0	49.6	594	1.081E-06	1.514E-06	3200
114.0	55.8	393	7.152E-07	1.001E-06	3200
114.0	62.0	637	1.160E-06	1.623E-06	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
122.0	0.2	708	1.288E-06	1.803E-06	3200
122.0	0.4	782	1.423E-06	1.993E-06	3200
122.0	0.8	795	1.446E-06	2.024E-06	3200
122.0	1.5	933	1.696E-06	2.375E-06	3200
122.0	3.1	1312	2.387E-06	3.341E-06	3200
122.0	6.2	2390	4.346E-06	6.084E-06	3200
122.0	9.3	3018	5.488E-06	7.683E-06	3200
122.0	12.4	2718	4.943E-06	6.920E-06	3200
122.0	15.5	2455	4.464E-06	6.250E-06	3200
122.0	18.6	1989	3.617E-06	5.064E-06	3200
122.0	21.7	1509	2.745E-06	3.843E-06	3200
122.0	24.8	1195	2.174E-06	3.043E-06	3200
122.0	31.0	805	1.464E-06	2.050E-06	3200
122.0	37.2	645	1.174E-06	1.644E-06	3200
122.0	43.4	462	8.408E-07	1.177E-06	3200
122.0	49.6	276	5.023E-07	7.033E-07	3200
122.0	55.8	167	3.052E-07	4.272E-07	3200
122.0	62.0	111	2.034E-07	2.848E-07	3200

SERIES '63 EXPERIMENT: 17 (FT-17)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS. A SIGNIFICANT
PORTION OF THE PLUME NEVER PASSED OVER THE GRID.

TEST F117 OCTOBER 8, 1963 0451 TO 0521 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC SAMPLER HT 1.5M U= 1.6 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. X10E+6	F/D SEC/CM. X10E+6	EU/D 1/SQ.M	DISTANCE METERS
74.0	124	2.930E-07	4.688E-07	200
76.0	181	4.276E-07	6.841E-07	200
78.0	864	2.035E-06	3.256E-06	200
80.0	1739	4.094E-06	6.550E-06	200
82.0	3843	9.043E-06	1.447E-05	200
84.0	5848	1.376E-05	2.202E-05	200
86.0	8557	2.014E-05	3.222E-05	200
88.0	11943	2.810E-05	4.496E-05	200
90.0	8537	2.009E-05	3.214E-05	200
92.0	8648	2.035E-05	3.256E-05	200
94.0	13733	3.211E-05	5.170E-05	200
96.0	12175	2.865E-05	4.584E-05	200
98.0	12185	2.867E-05	4.588E-05	200
100.0	11482	2.702E-05	4.323E-05	200
102.0	9705	2.284E-05	3.654E-05	200
104.0	8265	1.945E-05	3.112E-05	200
106.0	8901	2.044E-05	3.351E-05	200
108.0	10694	2.516E-05	4.026E-05	200
110.0	6770	1.543E-05	2.549E-05	200
112.0	8837	2.079E-05	3.327E-05	200
114.0	8073	1.900E-05	3.039E-05	200
116.0	8308	1.955E-05	3.128E-05	200
120.0	4906	1.154E-05	1.847E-05	200
122.0	3695	8.694E-06	1.391E-05	200
124.0	2217	5.218E-06	8.349E-06	200
126.0	5155	1.213E-05	1.941E-05	200
128.0	4257	1.002E-05	1.603E-05	200
130.0	2062	4.854E-06	7.766E-06	200
132.0	3133	7.372E-06	1.180E-05	200
134.0	770	1.813E-06	2.901E-06	200
136.0	2416	5.685E-06	9.096E-06	200
138.0	1635	3.848E-06	6.157E-06	200
140.0	1723	4.054E-06	6.487E-06	200
142.0	2752	6.477E-06	1.036E-05	200
144.0	2523	5.939E-06	9.502E-06	200
146.0	3196	7.522E-06	1.204E-05	200
148.0	3395	7.990E-06	1.278E-05	200
150.0	4246	9.993E-06	1.599E-05	200
152.0	3567	8.393E-06	1.343E-05	200
154.0	2786	6.556E-06	1.049E-05	200
156.0	3159	7.435E-06	1.190E-05	200
158.0	5495	1.293E-05	2.069E-05	200

CROSS-IND INTEGRATED= 3.928E-03 6.285E-03
SEC/30.M 1/M

TOWER DATA FOLLOW....

TEST F117 OCTOBER 8, 1963 0451 TO 0521 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC U= 1.6 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/D SEC/CM. X10E+6	EU/D 1/SQ.M	DISTANCE METERS
98.0	0.3	14964	3.521E-05	5.634E-05	200
98.0	0.7	12589	2.962E-05	4.740E-05	200
98.0	1.4	10917	2.564E-05	4.110E-05	200
98.0	2.7	10770	2.534E-05	4.059E-05	200
98.0	4.1	11926	2.804E-05	4.490E-05	200
98.0	5.4	17732	4.172E-05	6.676E-05	200
98.0	6.8	12929	3.042E-05	4.868E-05	200
98.0	8.1	22133	5.208E-05	8.333E-05	200
98.0	9.4	13362	3.144E-05	5.031E-05	200
98.0	10.8	30800	7.247E-05	1.160E-04	200
98.0	13.5	34053	8.483E-05	1.357E-04	200
98.0	16.2	28802	6.792E-05	1.088E-04	200
98.0	18.9	22504	5.295E-05	8.472E-05	200
98.0	21.6	17393	4.093E-05	6.544E-05	200
98.0	24.3	7390	1.736E-05	2.782E-05	200
98.0	27.0	5950	1.400E-05	2.240E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/D SEC/CM. X10E+6	EU/D 1/SQ.M	DISTANCE METERS
104.0	0.3	6541	1.544E-05	2.470E-05	200
104.0	0.7	9130	2.148E-05	3.437E-05	200
106.0	1.4	7440	1.751E-05	2.801E-05	200
106.0	2.7	7652	1.801E-05	2.881E-05	200
106.0	4.1	10281	2.416E-05	3.871E-05	200
106.0	5.4	9509	2.238E-05	3.580E-05	200
106.0	6.8	11050	2.690E-05	4.160E-05	200
106.0	8.1	14883	3.502E-05	5.603E-05	200
106.0	9.4	19663	4.627E-05	7.403E-05	200
106.0	10.8	25124	5.912E-05	9.459E-05	200
106.0	13.5	27968	6.581E-05	1.053E-04	200
106.0	16.2	27742	6.528E-05	1.044E-04	200
106.0	18.9	25852	5.989E-05	9.582E-05	200
106.0	21.6	21291	5.010E-05	8.016E-05	200
106.0	24.3	13762	3.238E-05	5.181E-05	200
106.0	27.0	10383	2.403E-05	3.909E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/D SEC/CM. X10E+6	EU/D 1/SQ.M	DISTANCE METERS
114.0	0.3	6341	1.518E-05	2.425E-05	200
114.0	0.7	7241	1.709E-05	2.739E-05	200
114.0	1.4	6730	1.586E-05	2.537E-05	200
114.0	2.7	6227	1.465E-05	2.340E-05	200
114.0	4.1	11115	2.615E-05	4.180E-05	200
114.0	5.4	14343	3.375E-05	5.400E-05	200
114.0	6.8	20912	4.925E-05	7.880E-05	200
114.0	8.1	30173	7.100E-05	1.134E-04	200
114.0	9.4	41607	9.790E-05	1.564E-04	200
114.0	10.8	62445	1.479E-04	2.367E-04	200
114.0	13.5	74695	1.758E-04	2.812E-04	200
114.0	16.2	70984	1.670E-04	2.672E-04	200
114.0	18.9	73805	1.730E-04	2.782E-04	200
114.0	21.6	54577	1.284E-04	2.055E-04	200
114.0	24.3	26642	6.269E-05	1.003E-04	200
114.0	27.0	20940	4.926E-05	7.881E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SEC ²	DISTANCE METERS
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122.0	0.3	4427	1.042E-05	1.667E-05	200
122.0	0.7	4420	1.511E-05	2.417E-05	200
122.0	1.0	3352	7.888E-06	1.262E-05	200
122.0	2.7	2945	6.931E-06	1.109E-05	200
122.0	4.1	3434	8.081E-06	1.293E-05	200
122.0	5.3	4344	1.963E-05	3.142E-05	200
T 122.0	6.8	10408	2.949E-05	3.918E-05	200
122.0	8.1	23666	5.568E-05	8.910E-05	200
122.0	9.0	27241	6.415E-05	1.026E-04	200
122.0	10.8	52957	1.246E-04	1.994E-04	200
122.0	13.5	64225	1.511E-04	2.418E-04	200
122.0	16.2	39465	9.286E-05	1.486E-04	200
S 122.0	18.9	24227	6.171E-05	9.874E-05	200
122.0	21.6	24833	5.843E-05	9.349E-05	200
122.0	24.3	22262	5.238E-05	8.381E-05	200
122.0	27.0	18991	4.257E-05	6.811E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SEC ²	DISTANCE METERS
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130.0	0.3	2830	6.666E-06	1.066E-05	200
130.0	0.7	2222	5.230E-06	8.367E-06	200
130.0	1.0	2109	5.175E-06	8.280E-06	200
130.0	2.7	1868	4.397E-06	7.034E-06	200
130.0	4.1	5472	1.288E-05	2.060E-05	200
130.0	5.3	8635	2.032E-05	3.251E-05	200
130.0	6.8	14021	3.299E-05	5.278E-05	200
130.0	8.1	22345	5.258E-05	8.413E-05	200
Z 130.0	9.0	17014	4.003E-05	6.405E-05	200
130.0	10.8	30105	7.084E-05	1.133E-04	200
130.0	13.5	37941	8.927E-05	1.428E-04	200
130.0	16.2	39120	9.205E-05	1.473E-04	200
130.0	18.9	33542	7.897E-05	1.264E-04	200
130.0	21.6	13701	3.224E-05	5.158E-05	200
130.0	24.3	6718	1.581E-05	2.529E-05	200
130.0	27.0	2916	6.962E-06	1.098E-05	200

TEST F117 OCTOBER 8, 1963 0451 TO 0521 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
ROOM ARC SAMPLER HT 1.5M U=1.6 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SEC ²	DISTANCE METERS
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70.0	91	2.145E-07	3.431E-07	800
72.0	94	2.221E-07	3.554E-07	800
74.0	58	1.379E-07	2.206E-07	800
76.0	126	2.987E-07	4.780E-07	800
78.0	71	1.685E-07	2.696E-07	800
80.0	107	2.528E-07	4.044E-07	800
82.0	97	2.298E-07	3.677E-07	800
84.0	55	1.302E-07	2.083E-07	800
86.0	52	1.226E-07	1.981E-07	800
88.0	198	4.672E-07	7.476E-07	800
90.0	250	5.898E-07	9.436E-07	800
92.0	279	6.587E-07	1.054E-06	800
94.0	322	7.583E-07	1.213E-06	800
96.0	1207	2.842E-06	4.547E-06	800
98.0	1943	4.573E-06	7.316E-06	800
100.0	2197	5.170E-06	8.272E-06	800
102.0	2112	4.971E-06	7.954E-06	800
104.0	2633	6.197E-06	9.914E-06	800
106.0	2900	6.825E-06	1.092E-05	800
108.0	2874	6.763E-06	1.082E-05	800
110.0	3382	7.958E-06	1.273E-05	800
Q 112.0	29	6.894E-08	1.103E-07	800
Q 114.0	19	4.596E-08	7.353E-08	800
Q 116.0	6	1.532E-08	2.451E-08	800
Q 118.0	553	1.302E-06	2.083E-06	800
Q 120.0	123	2.911E-07	4.657E-07	800
122.0	9717	2.286E-05	3.658E-05	800
124.0	10993	2.587E-05	4.139E-05	800
126.0	16168	3.804E-05	6.087E-05	800
128.0	17910	4.214E-05	6.743E-05	800
130.0	16299	3.835E-05	6.136E-05	800
132.0	20885	4.914E-05	7.863E-05	800
134.0	18809	4.426E-05	7.081E-05	800
136.0	11227	2.642E-05	4.227E-05	800
138.0	14785	3.479E-05	5.566E-05	800
140.0	15381	3.619E-05	5.791E-05	800
142.0	14101	3.318E-05	5.309E-05	800
144.0	12412	2.921E-05	4.673E-05	800
146.0	8854	2.083E-05	3.333E-05	800
148.0	6617	1.557E-05	2.491E-05	800
150.0	4365	1.027E-05	1.643E-05	800
152.0	3997	9.406E-06	1.505E-05	800
154.0	3356	7.897E-06	1.264E-05	800
156.0	3115	7.330E-06	1.173E-05	800
158.0	2581	6.074E-06	9.718E-06	800
160.0	2334	5.492E-06	8.787E-06	800

CROSSWIND INTEGRATED= 1.549E-02 2.478E-02
SEC/SEC² 1/M

TEST FT17 OCTOBER 8, 1963 0451 TO 0521 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC SAMPLER HT 1.5M U= 1.6 M/SFC AT 7M

AZIMUTH EXPOSURE E/O FU/O DISTANCE
DEGREES GM=SEC/CU.M SEC/CU.M 1/SQ.M METERS
X10E+6

70.0	13	3.182E+08	5.092E+08	1600
71.0	9	2.122E+08	3.394E+08	1600
72.0	4	1.061E+08	1.697E+08	1600
73.0	58	1.379E+07	2.206E+07	1600
74.0	49	1.167E+07	1.867E+07	1600
75.0	11	2.652E+08	4.243E+08	1600
76.0	76	1.803E+07	2.885E+07	1600
77.0	117	2.758E+07	4.413E+07	1600
78.0	69	1.644E+07	2.631E+07	1600
79.0	67	1.591E+07	2.546E+07	1600
80.0	83	1.962E+07	3.140E+07	1600
81.0	96	2.281E+07	3.649E+07	1600
82.0	94	2.228E+07	3.564E+07	1600
83.0	254	5.993E+07	9.589E+07	1600
84.0	128	3.023E+07	4.837E+07	1600
85.0	261	6.152E+07	9.844E+07	1600
86.0	304	7.160E+07	1.146E+08	1600
87.0	290	6.842E+07	1.095E+08	1600
88.0	205	4.827E+07	7.722E+07	1600
89.0	586	1.379E+06	2.206E+06	1600
90.0	401	9.441E+07	1.511E+08	1600
91.0	536	1.262E+06	2.020E+06	1600
92.0	304	7.160E+07	1.146E+08	1600
93.0	311	7.319E+07	1.171E+08	1600
94.0	279	6.577E+07	1.052E+08	1600
95.0	658	1.549E+06	2.478E+06	1600
96.0	504	1.188E+06	1.901E+06	1600
97.0	412	9.706E+07	1.553E+08	1600
98.0	380	8.964E+07	1.434E+08	1600
99.0	581	1.368E+06	2.189E+06	1600
100.0	773	1.819E+06	2.911E+06	1600
101.0	935	2.201E+06	3.522E+06	1600
102.0	1431	3.368E+06	5.389E+06	1600
103.0	2071	4.874E+06	7.799E+06	1600
104.0	2317	5.452E+06	8.724E+06	1600
105.0	2477	5.829E+06	9.326E+06	1600
106.0	3085	7.261E+06	1.162E+07	1600
107.0	3293	7.749E+06	1.240E+07	1600
108.0	3300	7.745E+06	1.242E+07	1600
109.0	3390	7.977E+06	1.276E+07	1600
110.0	3207	7.547E+06	1.208E+07	1600
111.0	4307	1.014E+05	1.622E+05	1600
112.0	5092	1.198E+05	1.917E+05	1600
113.0	7127	1.677E+05	2.683E+05	1600
114.0	7321	1.723E+05	2.756E+05	1600
115.0	13346	3.140E+05	5.025E+05	1600
116.0	12197	2.870E+05	4.592E+05	1600
117.0	10693	2.516E+05	4.026E+05	1600
118.0	9271	2.181E+05	3.490E+05	1600
119.0	8628	2.039E+05	3.249E+05	1600
120.0	9794	2.305E+05	3.687E+05	1600
121.0	7558	1.778E+05	2.845E+05	1600
122.0	9066	2.133E+05	3.413E+05	1600
123.0	9760	2.297E+05	3.675E+05	1600
124.0	9282	2.184E+05	3.495E+05	1600
125.0	8425	1.983E+05	3.172E+05	1600
126.0	8730	2.054E+05	3.287E+05	1600
127.0	8924	2.100E+05	3.360E+05	1600
128.0	8730	2.054E+05	3.287E+05	1600
129.0	4593	1.081E+05	1.729E+05	1600
130.0	6063	1.427E+05	2.283E+05	1600
131.0	6277	1.477E+05	2.363E+05	1600
132.0	6165	1.451E+05	2.321E+05	1600
133.0	7051	1.189E+05	1.902E+05	1600
134.0	8145	9.754E+04	1.561E+05	1600
135.0	2883	6.784E+04	1.085E+05	1600
136.0	2317	5.452E+04	8.724E+04	1600
137.0	1789	4.211E+04	6.738E+04	1600
138.0	1501	3.532E+04	5.652E+04	1600
139.0	1300	3.060E+04	4.897E+04	1600
140.0	1160	2.741E+04	4.370E+04	1600
141.0	852	2.005E+04	3.208E+04	1600

142.0	829	1.952E+06	3.123E+06	1600
143.0	534	1.257E+06	2.011E+06	1600
144.0	495	1.167E+06	1.867E+06	1600
145.0	302	7.107E+07	1.137E+08	1600
146.0	349	8.221E+07	1.315E+08	1600
147.0	180	4.243E+07	6.789E+07	1600
148.0	155	3.660E+07	5.855E+07	1600
149.0	189	4.455E+07	7.128E+07	1600
150.0	182	4.296E+07	6.874E+07	1600
151.0	132	3.129E+07	5.007E+07	1600
152.0	178	4.190E+07	6.704E+07	1600
153.0	155	3.660E+07	5.855E+07	1600
154.0	173	4.084E+07	6.534E+07	1600

CROSSWIND INTEGRATED= 1.575E-02 2.520E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST FT17 OCTOBER 8, 1963 0451 TO 0521 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC U= 1.6 M/SFC AT 7M

AZIMUTH HEIGHT EXPOSURE E/O FU/O DISTANCE
DEGREES METERS GM=SEC/CU.M SEC/CU.M 1/SQ.M METERS
X10E+6

98.0	0.2	815	1.448E+06	2.317E+06	1600
98.0	0.4	810	1.437E+06	2.308E+06	1600
98.0	0.8	446	1.050E+06	1.680E+06	1600
98.0	1.5	509	1.109E+06	1.919E+06	1600
98.0	3.1	427	1.005E+06	1.609E+06	1600
98.0	6.2	319	7.979E+07	1.277E+08	1600
98.0	9.3	188	4.028E+07	7.084E+07	1600
98.0	12.4	201	4.750E+07	7.601E+07	1600
98.0	15.5	56	1.337E+07	2.180E+07	1600
98.0	18.6	74	1.753E+07	2.804E+07	1600
98.0	21.7	76	1.799E+07	2.878E+07	1600
98.0	24.8	29	6.869E+08	1.099E+09	1600
98.0	31.0	17	4.041E+08	6.465E+08	1600
98.0	37.2	18	4.445E+08	7.112E+08	1600
98.0	43.4	18	4.445E+08	7.112E+08	1600
98.0	49.6	0	0.000E+00	0.000E+00	1600
98.0	55.9	7	1.722E+08	2.755E+08	1600
98.0	62.0	0	0.000E+00	0.000E+00	1600

AZIMUTH HEIGHT EXPOSURE E/O FU/O DISTANCE
DEGREES METERS GM=SEC/CU.M SEC/CU.M 1/SQ.M METERS
X10E+6

106.0	0.2	2709	6.375E+06	1.020E+07	1600
106.0	0.4	2567	6.041E+06	9.666E+06	1600
106.0	0.8	3297	7.760E+06	1.242E+07	1600
106.0	1.5	1160	2.730E+06	4.369E+06	1600
106.0	3.1	1588	3.727E+06	5.962E+06	1600
106.0	6.2	1238	2.915E+06	4.664E+06	1600
106.0	9.3	1399	3.293E+06	5.269E+06	1600
106.0	12.4	1381	3.251E+06	5.202E+06	1600
106.0	15.5	1166	2.740E+06	4.391E+06	1600
106.0	18.6	874	2.057E+06	3.291E+06	1600
106.0	21.7	1276	3.002E+06	4.804E+06	1600
106.0	24.8	1123	2.605E+06	4.228E+06	1600
106.0	31.0	827	1.948E+06	3.116E+06	1600
106.0	37.2	583	1.574E+06	2.198E+06	1600
106.0	43.4	271	6.384E+07	1.021E+08	1600
106.0	49.6	252	5.941E+07	9.506E+07	1600
106.0	55.9	207	4.874E+07	7.807E+07	1600
106.0	62.0	82	1.952E+07	3.123E+07	1600

TOWER DATA FOLLOW...

TEST F117 OCTOBER 9, 1963 0451 TO 0521 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
A000 ARC U= 1.6 M/SFL AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/R SEC/CM ²	FU/Q 1/SQ.M	DISTANCE METERS
98.0	0.3	2218	5.220E-06	8.351E-06	800
98.0	0.5	1747	4.204E-06	6.730E-06	800
98.0	1.0	1268	2.985E-06	4.777E-06	800
98.0	2.1	1530	3.600E-06	5.775E-06	800
98.0	4.2	2428	5.713E-06	9.101E-06	800
98.0	6.3	2674	6.292E-06	1.007E-05	800
98.0	8.4	2332	5.484E-06	8.781E-06	800
98.0	10.5	2503	5.984E-06	9.574E-06	800
98.0	12.6	2417	5.688E-06	9.190E-06	800
98.0	14.7	2493	5.868E-06	9.388E-06	800
98.0	16.8	2206	5.192E-06	8.308E-06	800
98.0	21.0	2212	5.205E-06	8.328E-06	800
98.0	25.2	1565	3.683E-06	5.893E-06	800
98.0	29.4	1502	3.536E-06	5.658E-06	800
98.0	33.6	1162	2.735E-06	4.378E-06	800
98.0	37.8	899	2.117E-06	3.384E-06	800
98.0	42.0	650	1.540E-06	2.464E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/R SEC/CM ²	FU/Q 1/SQ.M	DISTANCE METERS
106.0	0.3	666	1.568E-06	2.509E-06	800
106.0	0.5	3103	7.303E-06	1.168E-05	800
106.0	1.0	1867	4.394E-06	7.031E-06	800
106.0	2.1	1881	4.427E-06	7.083E-06	800
106.0	4.2	2102	4.908E-06	7.916E-06	800
106.0	6.3	1944	4.575E-06	7.319E-06	800
106.0	8.4	2340	5.507E-06	8.812E-06	800
106.0	10.5	2374	5.591E-06	8.986E-06	800
106.0	12.6	2379	5.578E-06	8.925E-06	800
106.0	14.7	2231	5.250E-06	8.400E-06	800
106.0	16.8	2296	5.406E-06	8.607E-06	800
106.0	21.0	2764	6.505E-06	1.041E-05	800
106.0	25.2	1957	4.605E-06	7.368E-06	800
106.0	29.4	2260	5.328E-06	8.525E-06	800
106.0	33.6	1255	2.955E-06	4.728E-06	800
106.0	37.8	1333	3.138E-06	5.021E-06	800
106.0	42.0	1369	3.080E-06	4.929E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/R SEC/CM ²	FU/Q 1/SQ.M	DISTANCE METERS
114.0	4.2	49	1.158E-07	1.853E-07	800
114.0	6.3	3567	8.371E-06	1.339E-05	800
114.0	8.4	4309	1.035E-05	1.656E-05	800
114.0	10.5	4181	1.925E-05	3.000E-05	800
114.0	12.6	9414	2.215E-05	3.544E-05	800
114.0	14.7	12700	2.989E-05	4.783E-05	800
114.0	16.8	13177	3.101E-05	4.961E-05	800
114.0	21.0	13015	3.063E-05	4.908E-05	800
114.0	25.2	9011	2.214E-05	3.543E-05	800
114.0	29.4	6871	1.617E-05	2.587E-05	800
114.0	33.6	5020	1.181E-05	1.890E-05	800
114.0	37.8	2856	6.722E-06	1.075E-05	800
114.0	42.0	1309	3.080E-06	4.929E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/R SEC/CM ²	FU/Q 1/SQ.M	DISTANCE METERS
122.0	0.3	10811	2.544E-05	4.070E-05	800
122.0	0.5	9932	2.337E-05	3.739E-05	800
122.0	1.0	8933	2.102E-05	3.363E-05	800
122.0	2.1	9362	2.203E-05	3.525E-05	800
122.0	4.2	16032	3.772E-05	6.036E-05	800
122.0	6.3	19469	4.581E-05	7.330E-05	800
122.0	8.4	19748	4.647E-05	7.435E-05	800
122.0	10.5	17902	4.212E-05	6.740E-05	800
122.0	12.6	14806	3.484E-05	5.574E-05	800
122.0	14.7	9001	2.118E-05	3.389E-05	800
122.0	16.8	7697	1.811E-05	2.898E-05	800
122.0	21.0	2991	7.039E-06	1.126E-05	800
122.0	25.2	728	1.713E-06	2.781E-06	800
122.0	29.4	111	2.619E-07	4.191E-07	800
122.0	33.6	40	9.430E-08	1.509E-07	800
122.0	37.8	60	1.415E-07	2.263E-07	800
122.0	42.0	0	0.000E+00	0.000E+00	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/R SEC/CM ²	FU/Q 1/SQ.M	DISTANCE METERS
130.0	0.3	16245	3.823E-05	6.116E-05	800
130.0	0.5	15705	3.696E-05	5.913E-05	800
130.0	1.0	13240	3.115E-05	4.985E-05	800
130.0	2.1	10000	2.374E-05	3.799E-05	800
130.0	4.2	14153	3.330E-05	5.328E-05	800
130.0	6.3	11722	2.758E-05	4.413E-05	800
130.0	8.4	5952	1.401E-05	2.241E-05	800
130.0	10.5	4530	1.066E-05	1.706E-05	800
130.0	12.6	3428	8.068E-06	1.291E-05	800
130.0	14.7	1701	4.098E-06	6.558E-06	800
130.0	16.8	746	1.754E-06	2.810E-06	800
130.0	21.0	391	9.201E-07	1.472E-06	800
130.0	25.2	33	7.858E-08	1.257E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/D SEC/CM. X10E+6	EU/D 1/SEC. X10E+6	DISTANCE METERS
114.0	0.2	7495	1.811E-05	2.897E-05	1600
114.0	0.4	7443	1.756E-05	2.810E-05	1600
114.0	0.8	6902	1.645E-05	2.637E-05	1600
114.0	1.5	7015	1.651E-05	2.601E-05	1600
7 114.0	3.1	199	4.704E-07	7.527E-07	1600
114.0	6.2	5223	1.229E-05	1.967E-05	1600
114.0	9.3	5317	1.251E-05	2.002E-05	1600
114.0	12.4	4597	1.552E-05	2.488E-05	1600
114.0	15.5	4653	1.095E-05	1.752E-05	1600
114.0	18.6	6039	1.421E-05	2.274E-05	1600
114.0	21.7	4917	1.162E-05	1.859E-05	1600
114.0	24.8	3709	8.728E-06	1.396E-05	1600
114.0	31.9	1952	4.594E-06	7.351E-06	1600
114.0	37.2	1234	2.999E-06	4.655E-06	1600
114.0	43.4	868	2.045E-06	3.271E-06	1600
114.0	49.6	329	7.740E-07	1.240E-06	1600
114.0	55.8	188	3.961E-07	6.337E-07	1600
114.0	62.0	126	2.985E-07	4.776E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/D SEC/CM. X10E+6	EU/D 1/SEC. X10E+6	DISTANCE METERS
122.0	0.2	7174	1.688E-05	2.701E-05	1600
122.0	0.4	9054	2.131E-05	3.409E-05	1600
122.0	0.8	6128	1.913E-05	3.060E-05	1600
122.0	1.5	5860	1.379E-05	2.206E-05	1600
122.0	3.1	7640	1.902E-05	2.884E-05	1600
122.0	6.2	7209	1.696E-05	2.714E-05	1600
122.0	9.3	3964	9.192E-06	1.471E-05	1600
122.0	12.4	2732	6.429E-06	1.029E-05	1600
122.0	15.5	1602	3.865E-06	6.184E-06	1600
122.0	18.6	880	2.071E-06	3.313E-06	1600
122.0	21.7	417	9.824E-07	1.572E-06	1600
122.0	24.8	243	5.738E-07	9.180E-07	1600
122.0	31.9	44	1.051E-07	1.681E-07	1600
122.0	37.2	19	9.294E-08	1.487E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/D SEC/CM. X10E+6	EU/D 1/SEC. X10E+6	DISTANCE METERS
130.0	0.2	5854	1.377E-05	2.204E-05	1600
130.0	0.4	4262	1.473E-05	2.357E-05	1600
130.0	0.8	6085	1.526E-05	2.441E-05	1600
130.0	1.5	6666	1.565E-05	2.510E-05	1600
130.0	3.1	7042	1.657E-05	2.651E-05	1600
130.0	6.2	4451	1.047E-05	1.676E-05	1600
130.0	9.3	2512	5.913E-06	9.460E-06	1600
130.0	12.4	1311	3.085E-06	4.937E-06	1600
130.0	15.5	652	1.536E-06	2.057E-06	1600
130.0	18.6	378	8.901E-07	1.424E-06	1600
130.0	21.7	309	7.287E-07	1.166E-06	1600
130.0	24.8	205	5.778E-07	9.205E-07	1600
130.0	31.9	41	9.698E-08	1.552E-07	1600
130.0	37.2	25	6.061E-08	9.698E-08	1600

TEST F117 OCTOBER 8, 1963 0451 TO 0521 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M ARC SAMPLER HT 1.5M U= 1.6 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. X10E+6	F/D SEC/CM. X10E+6	EU/D 1/SEC. X10E+6	DISTANCE METERS
71.0	13	3.118E-08	4.989E-08	3200
72.0	24	5.757E-08	9.211E-08	3200
73.0	14	3.358E-08	5.373E-08	3200
74.0	17	4.078E-08	6.524E-08	3200
75.0	14	3.358E-08	5.373E-08	3200
76.0	7	1.679E-08	2.686E-08	3200
77.0	30	7.196E-08	1.151E-07	3200
78.0	43	1.031E-07	1.650E-07	3200
79.0	41	9.834E-08	1.574E-07	3200
80.0	35	8.395E-08	1.343E-07	3200
81.0	19	4.557E-08	7.292E-08	3200
82.0	37	8.875E-08	1.420E-07	3200
83.0	54	1.271E-07	2.034E-07	3200
84.0	32	7.676E-08	1.228E-07	3200
85.0	65	1.535E-07	2.456E-07	3200
86.0	38	9.115E-08	1.458E-07	3200
87.0	17	4.078E-08	6.524E-08	3200
88.0	38	9.115E-08	1.458E-07	3200
89.0	43	1.031E-07	1.650E-07	3200
90.0	26	6.236E-08	9.978E-08	3200
91.0	42	1.007E-07	1.612E-07	3200
92.0	42	1.007E-07	1.612E-07	3200
93.0	43	1.031E-07	1.650E-07	3200
94.0	36	8.635E-08	1.382E-07	3200
95.0	72	1.703E-07	2.725E-07	3200
96.0	42	1.007E-07	1.612E-07	3200
97.0	37	8.875E-08	1.420E-07	3200
98.0	43	1.031E-07	1.650E-07	3200
99.0	88	2.087E-07	3.339E-07	3200
100.0	104	2.471E-07	3.953E-07	3200
101.0	177	4.174E-07	6.678E-07	3200
102.0	220	5.181E-07	8.290E-07	3200
103.0	186	4.389E-07	7.023E-07	3200
Z 104.0	36	8.635E-08	1.382E-07	3200
Z 105.0	20	4.797E-08	7.676E-08	3200
Z 106.0	12	2.878E-08	4.605E-08	3200
107.0	663	1.562E-06	2.498E-06	3200
108.0	762	1.774E-06	2.871E-06	3200
109.0	966	2.274E-06	3.638E-06	3200
110.0	1150	2.708E-06	4.333E-06	3200
111.0	828	1.950E-06	3.120E-06	3200
112.0	709	1.669E-06	2.671E-06	3200
113.0	646	1.521E-06	2.433E-06	3200
114.0	825	1.943E-06	3.109E-06	3200
115.0	760	1.789E-06	2.863E-06	3200
116.0	89	2.111E-07	3.377E-07	3200
117.0	90	2.135E-07	3.416E-07	3200
118.0	120	2.830E-07	4.529E-07	3200
119.0	112	2.638E-07	4.222E-07	3200
120.0	129	3.046E-07	4.874E-07	3200
121.0	100	3.310E-07	5.296E-07	3200
122.0	42	1.007E-07	1.612E-07	3200
123.0	36	8.635E-08	1.382E-07	3200
124.0	9	2.159E-08	3.454E-08	3200

CROSSWIND INTEGRATED= 1.363E+03 SEC/SEC.
1/P

TOWER DATA FOLLOW...

TEST #117 OCTOBER 8, 1963 0451 TO 0521 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M ARC W= 1.6 M/SEC AT 7M

AZIMUTH HEIGHT EXPOSURE E/D EU/D DISTANCE
DEGREES METERS GM-SEC/CU.M SEC/CU.M 1/SEC.M METERS

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/D SEC/CU.M	EU/D 1/SEC.M	DISTANCE METERS
98.0	0.2	111	2.615E-07	2.183E-07	3200
98.0	0.4	86	2.039E-07	3.262E-07	3200
98.0	0.8	28	6.716E-08	1.075E-07	3200
98.0	1.5	42	1.005E-07	1.608E-07	3200
98.0	3.1	42	1.005E-07	1.608E-07	3200
98.0	6.2	21	5.026E-08	8.041E-08	3200
98.0	9.3	49	1.166E-07	1.868E-07	3200
98.0	12.4	42	1.005E-07	1.608E-07	3200
98.0	15.5	35	8.452E-08	1.352E-07	3200
98.0	18.6	37	8.909E-08	1.425E-07	3200
98.0	21.7	27	6.396E-08	1.023E-07	3200
98.0	24.8	33	7.850E-08	1.256E-07	3200
98.0	31.0	40	9.596E-08	1.535E-07	3200
98.0	37.2	37	8.722E-08	1.396E-07	3200
98.0	43.4	63	1.505E-07	2.407E-07	3200
98.0	49.6	19	4.662E-08	7.459E-08	3200
98.0	55.8	32	7.531E-08	1.205E-07	3200
98.0	62.0	41	9.683E-08	1.549E-07	3200

122.0	0.2	63	1.487E-07	2.379E-07	3200
122.0	0.4	53	1.247E-07	1.994E-07	3200
122.0	0.8	23	5.517E-08	8.827E-08	3200
122.0	1.5	120	2.924E-07	4.678E-07	3200
122.0	3.1	227	5.346E-07	8.553E-07	3200
122.0	6.2	562	1.323E-06	2.116E-06	3200
122.0	9.3	668	1.574E-06	2.518E-06	3200
122.0	12.4	522	1.229E-06	1.966E-06	3200
122.0	15.5	471	1.116E-06	1.776E-06	3200
122.0	18.6	351	8.270E-07	1.323E-06	3200
122.0	21.7	381	8.978E-07	1.436E-06	3200
122.0	24.8	265	6.258E-07	1.001E-06	3200
122.0	31.0	229	5.408E-07	8.653E-07	3200
122.0	37.2	191	4.514E-07	7.222E-07	3200
122.0	43.4	78	1.744E-07	2.791E-07	3200
122.0	49.6	59	1.398E-07	2.234E-07	3200
122.0	55.8	39	9.324E-08	1.492E-07	3200
122.0	62.0	28	6.635E-08	1.062E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/D SEC/CU.M	EU/D 1/SEC.M	DISTANCE METERS
106.0	0.2	693	1.631E-06	2.610E-06	3200
106.0	0.4	755	1.777E-06	2.844E-06	3200
106.0	0.8	627	1.478E-06	2.364E-06	3200
106.0	1.5	113	2.673E-07	4.276E-07	3200
106.0	3.1	665	1.565E-06	2.504E-06	3200
106.0	6.2	616	1.499E-06	2.398E-06	3200
106.0	9.3	513	1.256E-06	2.010E-06	3200
106.0	12.4	596	1.403E-06	2.247E-06	3200
106.0	15.5	479	1.128E-06	1.806E-06	3200
106.0	18.6	202	8.878E-07	1.108E-06	3200
106.0	21.7	306	8.155E-07	1.305E-06	3200
106.0	24.8	153	3.620E-07	5.792E-07	3200
106.0	31.0	91	2.159E-07	3.454E-07	3200
106.0	37.2	59	1.396E-07	2.233E-07	3200
106.0	43.4	38	9.158E-08	1.465E-07	3200
106.0	49.6	10	4.662E-08	7.459E-08	3200
106.0	55.8	22	5.208E-08	8.329E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/D SEC/CU.M	EU/D 1/SEC.M	DISTANCE METERS
118.0	0.2	711	1.674E-06	2.679E-06	3200
118.0	0.4	695	1.518E-06	2.429E-06	3200
118.0	0.8	775	1.826E-06	2.921E-06	3200
118.0	1.5	829	1.951E-06	3.121E-06	3200
118.0	3.1	1084	2.552E-06	4.083E-06	3200
118.0	6.2	1450	3.413E-06	5.461E-06	3200
118.0	9.3	1602	3.772E-06	6.034E-06	3200
118.0	12.4	1583	3.724E-06	5.961E-06	3200
118.0	15.5	1787	4.112E-06	6.579E-06	3200
118.0	18.6	1631	3.838E-06	6.140E-06	3200
118.0	21.7	2104	4.953E-06	7.924E-06	3200
118.0	24.8	1908	4.701E-06	7.522E-06	3200
118.0	31.0	3137	7.383E-06	1.181E-05	3200
118.0	37.2	3002	7.065E-06	1.130E-05	3200
118.0	43.4	1612	3.794E-06	6.071E-06	3200
118.0	49.6	682	1.605E-06	2.568E-06	3200
118.0	55.8	470	1.106E-06	1.770E-06	3200
118.0	62.0	230	5.415E-07	8.664E-07	3200

SERIES '63 EXPERIMENT: 18 (FT-18)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS.

TEST FT18 OCTOBER 10, 1963 0841 TO 1000 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/C SEC/CM ²	FL/C 1/SQ.M	DISTANCE METERS
96.0	0.3	1.194E-07	4.537E-07		200
Z 96.0	0.7	3.473E-08	1.472E-07		200
100.0	1.4	2.453E-07	9.320E-07		200
102.0	2.7	3.292E-07	1.251E-06		200
104.0	4.1	6.325E-07	2.404E-06		200
106.0	5.4	2.001E-07	7.603E-07		200
108.0	6.8	5.383E-06	2.046E-05		200
110.0	8.1	7.747E-06	2.959E-05		200
112.0	9.4	1.020E-05	3.878E-05		200
114.0	10.8	5.501	7.335E-06	2.787E-05	200
116.0	12.2	15459	2.061E-05	7.833E-05	200
118.0	13.5	22478	2.997E-05	1.135E-04	200
120.0	14.9	39927	5.324E-05	2.023E-04	200
122.0	16.2	47498	6.333E-05	2.407E-04	200
124.0	17.6	70797	9.440E-05	3.587E-04	200
126.0	18.9	49519	6.603E-05	2.509E-04	200
128.0	20.3	82439	1.099E-04	4.177E-04	200
130.0	21.6	47471	6.330E-05	2.405E-04	200
132.0	22.9	41304	5.507E-05	2.093E-04	200
134.0	24.3	39406	5.254E-05	1.997E-04	200
136.0	25.6	65796	8.773E-05	3.334E-04	200
138.0	27.0	42388	5.652E-05	2.148E-04	200
140.0	28.3	40665	5.422E-05	2.060E-04	200
142.0	29.7	36954	4.927E-05	1.872E-04	200
144.0	31.0	18821	2.509E-05	9.536E-05	200
146.0	32.4	23364	3.115E-05	1.184E-04	200
148.0	33.7	15684	2.091E-05	7.947E-05	200
150.0	35.1	16916	2.256E-05	8.571E-05	200
152.0	36.4	17456	2.327E-05	8.844E-05	200
154.0	37.8	11356	1.514E-05	5.754E-05	200
156.0	39.1	15986	2.132E-05	8.100E-05	200
158.0	40.5	7200	9.601E-06	3.648E-05	200

CROSSWIND INTEGRATED= 7.343E-03 SEC/SEC.M 2.405E-02 1/M

TOWER DATA FOLLOWS....

TEST FT1P OCTOBER 10, 1963 0841 TO 1000 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC U= 3.8 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/C SEC/CM ²	FL/C 1/SQ.M	DISTANCE METERS
Z 96.0	0.3	28	3.855E-08	1.465E-07	200
Z 96.0	0.7	16	2.142E-08	8.138E-08	200
Z 96.0	1.4	1	2.510E-09	9.538E-09	200
96.0	2.7	99	1.330E-07	5.055E-07	200
96.0	4.1	101	1.355E-07	5.151E-07	200
96.0	5.4	9	1.255E-08	4.769E-08	200
96.0	6.8	9	1.255E-08	4.769E-08	200
96.0	8.1	77	1.029E-07	3.911E-07	200
96.0	9.4	32	4.267E-08	1.621E-07	200
96.0	10.8	75	1.004E-07	3.819E-07	200
96.0	12.2	47	6.275E-08	2.384E-07	200
96.0	13.5	32	4.267E-08	1.621E-07	200
96.0	14.9	28	3.765E-08	1.431E-07	200
96.0	16.2	64	4.534E-08	3.203E-07	200
96.0	17.6	201	2.692E-07	1.023E-06	200
96.0	18.9	106	1.958E-07	7.441E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/C SEC/CM ²	FL/C 1/SQ.M	DISTANCE METERS
Z 106.0	0.3	260	3.469E-07	1.318E-06	200
Z 106.0	0.7	292	3.899E-07	1.481E-06	200
Z 106.0	1.4	94	1.255E-07	4.769E-07	200
106.0	2.7	295	3.941E-07	1.497E-06	200
106.0	4.1	2176	2.902E-06	1.103E-05	200
106.0	5.4	1812	2.417E-06	9.185E-06	200
106.0	6.8	1895	2.528E-06	9.605E-06	200
106.0	8.1	2375	3.168E-06	1.204E-05	200
106.0	9.4	2348	3.185E-06	1.210E-05	200
106.0	10.8	2387	3.183E-06	1.209E-05	200
106.0	12.2	2627	3.508E-06	1.332E-05	200
106.0	13.5	2765	3.687E-06	1.401E-05	200
106.0	14.9	2503	3.338E-06	1.269E-05	200
106.0	16.2	2298	3.065E-06	1.145E-05	200
106.0	17.6	2160	2.681E-06	1.095E-05	200
106.0	18.9	2483	3.312E-06	1.258E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/C SEC/CM ²	FL/C 1/SQ.M	DISTANCE METERS
114.0	0.3	9244	1.233E-05	4.684E-05	200
114.0	0.7	10458	1.421E-05	5.400E-05	200
114.0	1.4	7731	1.031E-05	3.917E-05	200
114.0	2.7	7693	1.026E-05	3.898E-05	200
114.0	4.1	9273	1.236E-05	4.698E-05	200
114.0	5.4	13271	1.770E-05	6.724E-05	200
114.0	6.8	13354	1.781E-05	6.766E-05	200
114.0	8.1	15586	2.076E-05	7.887E-05	200
114.0	9.4	13230	1.764E-05	6.703E-05	200
114.0	10.8	15214	2.029E-05	7.709E-05	200
114.0	12.2	14071	1.876E-05	7.130E-05	200
114.0	13.5	12678	1.696E-05	6.424E-05	200
114.0	14.9	11014	1.469E-05	5.561E-05	200
114.0	16.2	8540	1.130E-05	4.327E-05	200
114.0	17.6	8294	1.106E-05	4.202E-05	200
114.0	18.9	7897	1.053E-05	4.001E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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TOWER DATA FOLLOWING...

TEST F118 OCTOBER 10, 1963 0841 TO 1000 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
ROOM ARC L= 3.8 M/SEC AT 7M

130.0	0.3	50096	6.677E-05	2.538E-04	200
130.0	0.7	57577	7.677E-05	2.917E-04	200
130.0	1.4	38323	5.110E-05	1.942E-04	200
130.0	2.7	41443	5.526E-05	2.100E-04	200
130.0	4.1	38302	5.112E-05	1.943E-04	200
130.0	5.4	49093	6.546E-05	2.487E-04	200
130.0	6.8	49197	6.426E-05	2.442E-04	200
130.0	8.1	54034	7.872E-05	2.991E-04	200
130.0	9.4	40949	5.460E-05	2.075E-04	200
130.0	10.8	35366	4.716E-05	1.792E-04	200
130.0	13.5	52314	6.975E-05	2.651E-04	200
130.0	16.2	35375	4.717E-05	1.792E-04	200
130.0	18.0	30357	4.048E-05	1.538E-04	200
130.0	21.6	22305	2.970E-05	1.130E-04	200
130.0	24.3	21344	2.846E-05	1.081E-04	200
130.0	27.0	24022	3.203E-05	1.217E-04	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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114.0	0.3	478	6.380E-07	2.425E-06	800
114.0	0.5	254	3.397E-07	1.291E-06	800
114.0	1.0	492	6.403E-07	2.445E-06	800
114.0	2.1	178	2.375E-07	9.042E-07	800
114.0	4.2	234	3.132E-07	1.190E-06	800
114.0	6.3	132	1.772E-07	6.735E-07	800
114.0	8.4	373	4.977E-07	1.891E-06	800
114.0	10.5	309	4.120E-07	1.568E-06	800
114.0	12.6	149	1.991E-07	7.566E-07	800
114.0	14.7	447	5.973E-07	2.270E-06	800
114.0	16.8	218	2.914E-07	1.107E-06	800
114.0	21.0	271	3.618E-07	1.375E-06	800
114.0	25.2	207	2.770E-07	1.053E-06	800
114.0	29.4	184	2.462E-07	9.357E-07	800
114.0	33.6	90	1.208E-07	4.589E-07	800
114.0	37.8	161	2.155E-07	8.188E-07	800
114.0	42.0	198	2.652E-07	1.008E-06	800

TEST F118 OCTOBER 10, 1963 0841 TO 1000 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
ROOM ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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112.0	53	7.180E-08	2.728E-07	800
114.0	154	2.060E-07	7.829E-07	800
116.0	484	6.462E-07	2.456E-06	800
118.0	1088	1.452E-06	5.516E-06	800
120.0	1535	2.048E-06	7.782E-06	800
122.0	1334	1.779E-06	6.762E-06	800
124.0	1636	2.182E-06	8.292E-06	800
126.0	2519	3.359E-06	1.278E-05	800
128.0	2769	3.693E-06	1.403E-05	800
130.0	2324	3.100E-06	1.178E-05	800
P 132.0	2324	3.100E-06	1.178E-05	800
P 134.0	2156	2.875E-06	1.093E-05	800
P 136.0	2055	2.741E-06	1.042E-05	800
F 138.0	1622	2.163E-06	8.221E-06	800
F 140.0	1542	2.057E-06	7.818E-06	800
142.0	810	1.080E-06	4.104E-06	800
144.0	1587	2.117E-06	8.043E-06	800
146.0	723	9.646E-07	3.666E-06	800
148.0	693	9.240E-07	3.511E-06	800
150.0	276	3.684E-07	1.400E-06	800
152.0	170	2.279E-07	8.660E-07	800
154.0	103	1.374E-07	5.220E-07	800
156.0	135	1.811E-07	6.880E-07	800
158.0	135	1.811E-07	6.880E-07	800
160.0	168	2.248E-07	8.541E-07	800

CROSSWIND INTEGRATED= 1.058E-03 4.020E-03
SEC/SQ.M 1/M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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122.0	0.3	1059	1.413E-06	5.369E-06	800
122.0	0.5	1277	1.703E-06	6.471E-06	800
122.0	1.0	1134	1.513E-06	5.748E-06	800
122.0	2.1	1187	1.583E-06	6.016E-06	800
122.0	4.2	1578	2.105E-06	7.999E-06	800
122.0	6.3	1322	1.763E-06	6.699E-06	800
122.0	8.4	1334	1.780E-06	6.763E-06	800
122.0	10.5	1589	2.120E-06	8.055E-06	800
122.0	12.6	1210	1.615E-06	6.135E-06	800
122.0	14.7	1382	1.843E-06	7.003E-06	800
122.0	16.8	1156	1.542E-06	5.859E-06	800
122.0	21.0	1420	1.890E-06	7.196E-06	800
122.0	25.2	941	1.255E-06	4.769E-06	800
122.0	29.4	997	1.331E-06	5.056E-06	800
122.0	33.6	715	9.542E-07	3.626E-06	800
122.0	37.8	873	1.165E-06	4.427E-06	800
122.0	42.0	644	8.595E-07	3.266E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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130.0	0.3	1940	2.614E-06	9.934E-06	800
130.0	0.5	1541	2.055E-06	7.809E-06	800
130.0	1.0	1048	1.425E-06	5.416E-06	800
130.0	2.1	1941	2.588E-06	9.835E-06	800
130.0	4.2	2072	2.763E-06	1.050E-05	800
130.0	6.3	1939	2.586E-06	9.826E-06	800
130.0	8.4	2192	2.923E-06	1.111E-05	800
130.0	10.5	2511	3.348E-06	1.272E-05	800
130.0	12.6	3234	4.312E-06	1.639E-05	800
130.0	14.7	2880	3.841E-06	1.460E-05	800
130.0	16.8	2276	3.035E-06	1.153E-05	800
130.0	21.0	3558	4.740E-06	1.803E-05	800
130.0	25.2	3244	4.326E-06	1.648E-05	800
130.0	29.4	2713	3.618E-06	1.375E-05	800
130.0	33.6	3217	4.290E-06	1.630E-05	800
130.0	37.8	3127	4.170E-06	1.584E-05	800
130.0	42.0	2631	3.509E-06	1.333E-05	800

TEST FT18 OCTOBER 10, 1963 0841 TO 1000 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC SAMPLER HT 1.5M UG 3.6 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SG.M	DISTANCE METERS
120.0	53	7.169E-08	2.724E-07	1600
121.0	78	1.051E-07	3.996E-07	1600
122.0	267	3.561E-07	1.353E-06	1600
123.0	130	1.745E-07	6.629E-07	1600
124.0	177	2.366E-07	8.990E-07	1600
125.0	265	3.517E-07	1.344E-06	1600
126.0	175	2.342E-07	8.899E-07	1600
127.0	304	4.063E-07	1.544E-06	1600
128.0	444	5.927E-07	2.252E-06	1600
129.0	333	4.445E-07	1.689E-06	1600
5 130.0	89	1.195E-07	4.541E-07	1600
131.0	589	7.862E-07	2.988E-06	1600
132.0	544	7.265E-07	2.761E-06	1600
133.0	553	7.344E-07	2.806E-06	1600
134.0	363	4.851E-07	1.843E-06	1600
135.0	406	5.425E-07	2.061E-06	1600
136.0	487	6.500E-07	2.470E-06	1600
137.0	663	8.842E-07	3.360E-06	1600
138.0	354	4.732E-07	1.798E-06	1600
139.0	589	7.842E-07	2.988E-06	1600
140.0	265	3.537E-07	1.344E-06	1600
141.0	403	5.377E-07	2.043E-06	1600
142.0	254	3.393E-07	1.290E-06	1600
143.0	207	2.772E-07	1.053E-06	1600
144.0	229	3.059E-07	1.162E-06	1600
145.0	310	4.134E-07	1.571E-06	1600
146.0	172	2.294E-07	8.718E-07	1600
147.0	168	2.246E-07	8.536E-07	1600
148.0	299	3.991E-07	1.517E-06	1600
149.0	43	5.735E-08	2.179E-07	1600
150.0	82	1.099E-07	4.177E-07	1600
151.0	200	2.677E-07	1.017E-06	1600
152.0	78	1.051E-07	3.996E-07	1600
153.0	60	8.125E-08	3.088E-07	1600
154.0	68	9.081E-08	3.451E-07	1600

CROSSWIND INTEGRATED= 3.619E-04 1.375E-03
SEC/SG.M 1/M

TOWER DATA FOLLOW.....

TEST FT18 OCTOBER 10, 1963 0841 TO 1000 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC UG 3.6 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SG.M	DISTANCE METERS
122.0	0.2	264	3.521E-07	1.338E-06	1600
122.0	0.4	141	1.889E-07	7.179E-07	1600
122.0	0.8	263	3.778E-07	1.436E-06	1600
122.0	1.5	127	1.698E-07	6.453E-07	1600
122.0	3.1	250	3.338E-07	1.269E-06	1600
122.0	6.2	267	3.570E-07	1.357E-06	1600
122.0	9.3	332	4.438E-07	1.687E-06	1600
122.0	12.4	267	3.570E-07	1.357E-06	1600
122.0	15.5	259	3.454E-07	1.313E-06	1600
122.0	18.6	324	4.323E-07	1.643E-06	1600
122.0	21.7	497	6.638E-07	2.523E-06	1600
122.0	24.8	338	4.515E-07	1.716E-06	1600
122.0	31.0	279	3.721E-07	1.414E-06	1600
122.0	37.2	187	2.493E-07	9.475E-07	1600
122.0	43.4	223	2.985E-07	1.134E-06	1600
122.0	49.6	288	3.840E-07	1.459E-06	1600
122.0	55.8	302	4.033E-07	1.533E-06	1600
122.0	62.0	486	6.484E-07	2.464E-06	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SG.M	DISTANCE METERS
130.0	0.2	270	3.607E-07	1.371E-06	1600
130.0	0.4	465	6.211E-07	2.360E-06	1600
130.0	0.8	465	6.211E-07	2.360E-06	1600
130.0	1.5	344	4.593E-07	1.745E-06	1600
130.0	3.1	343	4.574E-07	1.738E-06	1600
130.0	6.2	366	4.882E-07	1.855E-06	1600
130.0	9.3	505	6.735E-07	2.559E-06	1600
130.0	12.4	399	5.326E-07	2.024E-06	1600
130.0	15.5	450	6.002E-07	2.281E-06	1600
130.0	18.6	276	3.686E-07	1.401E-06	1600
130.0	21.7	366	4.882E-07	1.855E-06	1600
130.0	24.8	721	9.615E-07	3.654E-06	1600
130.0	31.0	425	5.667E-07	2.153E-06	1600
130.0	37.2	405	5.402E-07	2.053E-06	1600
130.0	43.4	668	8.714E-07	3.388E-06	1600
130.0	49.6	441	5.886E-07	2.237E-06	1600
130.0	55.8	272	3.628E-07	1.379E-06	1600
130.0	62.0	373	4.975E-07	1.892E-06	1600

TEST FT18 OCTOBER 10, 1963 0841 TO 1000 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
 3200M ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/D SEC/CU.M	FL/D 1/SEC.M	DISTANCE METERS
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100.0	34	4.572E-08	1.737E-07	3200
125.0	18	2.471E-08	9.391E-08	3200
Z 126.0	19	2.595E-08	9.861E-08	3200
D 127.0	99	1.322E-07	5.024E-07	3200
C 128.0	52	7.043E-08	2.676E-07	3200
C 129.0	38	5.190E-08	1.972E-07	3200
130.0	67	9.070E-08	3.428E-07	3200
131.0	69	9.267E-08	3.522E-07	3200
132.0	47	6.302E-08	2.395E-07	3200
133.0	104	1.396E-07	5.306E-07	3200
134.0	73	9.762E-08	3.709E-07	3200
135.0	126	1.680E-07	6.386E-07	3200
136.0	98	1.310E-07	4.977E-07	3200
137.0	57	7.661E-08	2.911E-07	3200
138.0	92	1.236E-07	4.695E-07	3200
139.0	50	6.673E-08	2.536E-07	3200
140.0	91	1.223E-07	4.649E-07	3200
141.0	57	7.661E-08	2.911E-07	3200
142.0	114	1.532E-07	5.822E-07	3200
143.0	70	9.391E-08	3.569E-07	3200
144.0	111	1.483E-07	5.635E-07	3200
D 145.0	126	1.693E-07	6.433E-07	3200
D 146.0	105	1.409E-07	5.353E-07	3200
C 147.0	53	7.167E-08	2.723E-07	3200
148.0	69	9.267E-08	3.522E-07	3200
149.0	77	1.038E-07	3.944E-07	3200
150.0	82	1.100E-07	4.179E-07	3200
151.0	69	9.267E-08	3.522E-07	3200
152.0	31	4.201E-08	1.596E-07	3200
153.0	80	1.124E-07	4.273E-07	3200
154.0	42	5.684E-08	2.160E-07	3200
155.0	75	1.001E-07	3.803E-07	3200
156.0	75	1.013E-07	3.850E-07	3200
157.0	56	7.538E-08	2.864E-07	3200
158.0	52	7.043E-08	2.676E-07	3200
159.0	57	7.661E-08	2.911E-07	3200
160.0	80	1.075E-07	4.085E-07	3200
161.0	37	4.943E-08	1.878E-07	3200

CROSSWIND INTEGRATED= 2.771E-04 1.053E-03
 SEC/SQ.M 1/M

TOWER DATA FULLER....

TEST FT18 OCTOBER 10, 1963 0841 TO 1000 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
 3200M ARC U= 3.8 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/D SEC/CU.M	FL/D 1/SEC.M	DISTANCE METERS
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130.0	0.2	32	4.272E-08	1.623E-07	3200
130.0	0.4	39	5.307E-08	2.017E-07	3200
130.0	0.8	36	4.919E-08	1.869E-07	3200
130.0	1.5	109	1.461E-07	5.550E-07	3200
130.0	3.1	76	1.019E-07	3.872E-07	3200
130.0	6.2	123	1.653E-07	6.281E-07	3200
130.0	9.3	45	1.276E-07	4.862E-07	3200
130.0	12.4	41	1.087E-07	4.130E-07	3200
130.0	15.5	97	1.302E-07	4.948E-07	3200
130.0	18.6	79	1.064E-07	4.044E-07	3200
130.0	21.7	90	1.211E-07	4.604E-07	3200
130.0	24.8	106	1.419E-07	5.391E-07	3200
130.0	31.0	75	1.005E-07	3.820E-07	3200
130.0	37.2	92	1.240E-07	4.711E-07	3200
130.0	43.4	74	9.941E-08	3.778E-07	3200
130.0	49.6	66	8.831E-08	3.356E-07	3200
130.0	55.8	50	6.680E-08	2.538E-07	3200
130.0	62.0	83	1.110E-07	4.216E-07	3200

SERIES '64 EXPERIMENT: 1 (S-1)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS. GROUND LEVEL
SAMPLING ONLY ON THE 12800 M ARC.

TEST 91 MAY 13, 1964 0355 TO 0433 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC SAMPLER HT 1.5M U= 6.8 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
68.0	113	2.842E-08	1.933E-07	200	
70.0	107	2.649E-08	1.828E-07	200	
72.0	61	1.536E-08	1.045E-07	200	
74.0	129	3.276E-08	2.194E-07	200	
76.0	141	3.534E-08	2.403E-07	200	
78.0	141	3.534E-08	2.403E-07	200	
80.0	46	1.613E-08	1.097E-07	200	
82.0	46	1.152E-08	7.835E-08	200	
84.0	184	4.609E-08	3.134E-07	200	
86.0	184	4.609E-08	3.134E-07	200	
88.0	61	1.536E-08	1.045E-07	200	
90.0	132	3.303E-08	2.246E-07	200	
92.0	119	2.996E-08	2.037E-07	200	
94.0	61	1.536E-08	1.045E-07	200	
96.0	190	4.763E-08	3.239E-07	200	
98.0	119	2.996E-08	2.037E-07	200	
100.0	645	1.613E-07	1.097E-06	200	
102.0	365	9.141E-08	6.216E-07	200	
104.0	79	1.997E-08	1.358E-07	200	
106.0	6	1.536E-09	1.045E-08	200	
108.0	46	1.152E-08	7.835E-08	200	
110.0	61	1.536E-08	1.045E-07	200	
112.0	89	2.228E-08	1.515E-07	200	
114.0	30	7.682E-09	5.223E-08	200	
116.0	76	1.920E-08	1.306E-07	200	
118.0	3	7.682E-10	5.223E-09	200	
120.0	67	1.690E-08	1.149E-07	200	
122.0	236	5.915E-08	4.022E-07	200	
124.0	12	3.073E-09	2.089E-08	200	
126.0	110	2.765E-08	1.800E-07	200	
146.0	168	4.225E-08	2.873E-07	200	
158.0	168	4.225E-08	2.873E-07	200	

CROSS-ARC INTEGRATED= 1.203E-05 8.179E-05
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST 91 MAY 13, 1964 0355 TO 0433 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC U= 6.8 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.3	94	2.356E-08	1.602E-07	200
98.0	0.7	94	2.356E-08	1.602E-07	200
98.0	1.4	54	1.351E-08	9.189E-08	200
98.0	2.7	46	1.091E-07	7.417E-07	200
98.0	4.1	374	9.362E-08	6.366E-07	200
98.0	5.4	227	5.695E-08	3.872E-07	200
98.0	6.8	141	4.536E-08	3.085E-07	200
98.0	8.1	111	2.799E-08	1.903E-07	200
98.0	9.4	148	3.716E-08	2.527E-07	200
98.0	10.8	86	2.172E-08	1.477E-07	200
98.0	13.5	50	1.255E-08	8.532E-08	200
98.0	16.2	21	5.309E-09	3.610E-08	200
98.0	18.9	69	1.737E-08	1.181E-07	200
98.0	21.6	206	5.164E-08	3.511E-07	200
98.0	24.3	72	1.810E-08	1.231E-07	200
98.0	27.0	250	6.266E-08	4.261E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.3	114	2.860E-08	1.945E-07	200
106.0	0.7	114	2.860E-08	1.945E-07	200
106.0	1.4	46	1.158E-08	7.876E-08	200
106.0	2.7	403	1.009E-07	6.859E-07	200
106.0	4.1	650	1.626E-07	1.106E-06	200
106.0	5.4	252	6.322E-08	4.299E-07	200
106.0	6.8	164	4.102E-08	2.789E-07	200
106.0	8.1	121	3.040E-08	2.067E-07	200
106.0	9.4	88	2.220E-08	1.510E-07	200
106.0	10.8	73	1.834E-08	1.247E-07	200
106.0	13.5	38	9.652E-09	6.563E-08	200
106.0	16.2	28	7.239E-09	4.923E-08	200
106.0	18.9	17	4.343E-09	2.954E-08	200
106.0	21.6	0	0.000E+00	0.000E+00	200
106.0	24.3	18	7.746E-09	6.628E-08	200
106.0	27.0	144	3.620E-08	2.462E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.3	23	5.889E-09	4.005E-08	200
114.0	0.7	30	7.572E-09	5.149E-08	200
114.0	2.7	2733	6.834E-07	4.647E-06	200
114.0	4.1	355	8.880E-08	6.038E-07	200
114.0	5.4	405	1.013E-07	6.892E-07	200
114.0	6.8	380	9.507E-08	6.465E-07	200
114.0	8.1	256	6.419E-08	4.365E-07	200
114.0	9.4	283	7.094E-08	4.824E-07	200
114.0	10.8	202	5.067E-08	3.446E-07	200
114.0	13.5	67	1.689E-08	1.149E-07	200
114.0	16.2	81	2.027E-08	1.378E-07	200
114.0	18.9	138	3.475E-08	2.363E-07	200
114.0	21.6	19	4.826E-09	3.282E-08	200
114.0	24.3	26	6.618E-09	4.497E-08	200
114.0	27.0	15	3.829E-09	2.604E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
122.0	2.7	415	1.038E-07	7.056E-07	200
122.0	4.1	214	5.357E-08	3.643E-07	200
122.0	5.4	305	7.625E-08	5.185E-07	200
122.0	6.8	237	5.936E-08	4.036E-07	200
122.0	8.1	212	5.309E-08	3.610E-07	200
122.0	9.4	150	3.764E-08	2.560E-07	200
122.0	10.8	204	5.116E-08	3.479E-07	200
122.0	13.5	94	2.365E-08	1.604E-07	200
122.0	16.2	59	1.996E-08	1.017E-07	200
122.0	18.9	57	1.408E-08	9.845E-08	200
122.0	21.6	38	9.652E-09	6.563E-08	200
122.0	24.3	6	1.740E-09	1.183E-08	200
122.0	27.0	16	4.177E-09	2.844E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10F+6	E/O SEC/CM. X10F+6	EU/O 1/SQ.M	DISTANCE METERS
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130.0	1.4	25	6.274E-09	4.266E-08	200
130.0	2.7	283	7.094E-08	4.824E-07	200
130.0	4.1	115	2.896E-08	1.969E-07	200
130.0	5.4	208	5.212E-08	3.544E-07	200
130.0	6.8	131	3.282E-08	2.232E-07	200
130.0	8.1	121	3.040E-08	2.067E-07	200
130.0	9.4	73	1.834E-08	1.247E-07	200
130.0	10.8	110	2.751E-08	1.871E-07	200
130.0	13.5	54	1.351E-08	9.189E-08	200
130.0	16.2	67	1.689E-08	1.149E-07	200
130.0	18.9	5	1.448E-09	9.845E-09	200
130.0	21.6	28	7.239E-09	4.923E-08	200
130.0	27.0	32	8.006E-09	5.444E-08	200

TOWER DATA FOLLOW....

TEST S1 MAY 13, 1964 0355 TO 0433 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
ROOM ARC U= 6.8 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10F+6	E/O SEC/CM. X10F+6	EU/O 1/SQ.M	DISTANCE METERS
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98.0	2.1	39	9.803E-09	6.666E-08	800
98.0	4.2	162	4.061E-08	2.762E-07	800
98.0	6.3	102	2.568E-08	1.746E-07	800
98.0	8.4	136	3.408E-08	2.317E-07	800
98.0	10.5	74	1.867E-08	1.270E-07	800
98.0	12.6	91	2.287E-08	1.555E-07	800
98.0	14.7	97	2.428E-08	1.651E-07	800
98.0	16.8	42	1.074E-08	7.301E-08	800
98.0	21.0	76	1.914E-08	1.302E-07	800
98.0	29.4	24	6.061E-09	4.121E-08	800
98.0	33.6	9	2.357E-09	1.603E-08	800
98.0	37.8	12	3.030E-09	2.061E-08	800

TEST S1 MAY 13, 1964 0355 TO 0433 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
ROOM ARC SAMPLER HT 1.5M U= 6.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. X10E+6	E/O SEC/CM. X10E+6	EU/O 1/SQ.M	DISTANCE METERS
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100.0	83	2.081E-08	1.415E-07	800
102.0	29	7.431E-09	5.053E-08	800
104.0	68	1.709E-08	1.162E-07	800
106.0	77	1.932E-08	1.314E-07	800
108.0	1218	3.047E-07	2.072E-06	800
110.0	2050	5.127E-07	3.486E-06	800
112.0	13784	3.441E-06	2.340E-05	800
114.0	7261	1.815E-06	1.234E-05	800
116.0	5709	1.427E-06	9.706E-06	800
118.0	1619	4.050E-07	2.754E-06	800
120.0	383	9.585E-08	6.518E-07	800
122.0	125	3.641E-08	2.476E-07	800
124.0	178	4.458E-08	3.032E-07	800
126.0	109	2.749E-08	1.870E-07	800
128.0	41	1.040E-08	7.074E-08	800

CROSSWIND INTEGRATED= 2.286E-08 1.554E-03
SEC/SQ.M 1/M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10F+6	E/O SEC/CM. X10F+6	EU/O 1/SQ.M	DISTANCE METERS
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106.0	0.3	110	2.767E-08	1.882E-07	800
106.0	0.5	110	2.767E-08	1.882E-07	800
106.0	1.4	118	3.455E-08	2.349E-07	800
106.0	2.1	115	2.894E-08	1.965E-07	800
106.0	4.2	349	8.730E-08	5.936E-07	800
106.0	6.3	225	5.649E-08	3.841E-07	800
106.0	8.4	255	6.396E-08	4.349E-07	800
106.0	10.5	369	9.243E-08	6.285E-07	800
106.0	12.6	681	1.704E-07	1.159E-06	800
106.0	14.7	898	1.746E-07	1.187E-06	800
106.0	16.8	382	9.570E-08	6.508E-07	800
106.0	21.0	870	2.175E-07	1.479E-06	800
106.0	25.2	817	2.044E-07	1.390E-06	800
106.0	29.4	921	2.303E-07	1.566E-06	800
106.0	33.6	1305	3.263E-07	2.219E-06	800
106.0	37.8	1411	3.529E-07	2.400E-06	800
106.0	42.0	1020	2.552E-07	1.736E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10F+6	E/O SEC/CM. X10F+6	EU/O 1/SQ.M	DISTANCE METERS
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114.0	0.3	7715	1.929E-06	1.312E-05	800
114.0	0.5	7415	1.859E-06	1.263E-05	800
114.0	1.0	4522	1.131E-06	7.689E-06	800
114.0	2.1	6046	1.512E-06	1.028E-05	800
114.0	4.2	7215	1.804E-06	1.227E-05	800
114.0	6.3	7454	1.844E-06	1.268E-05	800
114.0	8.4	8346	2.087E-06	1.419E-05	800
114.0	10.5	10785	2.676E-06	1.820E-05	800
114.0	12.6	13075	3.269E-06	2.223E-05	800
114.0	14.7	15285	3.821E-06	2.599E-05	800
114.0	16.8	18947	4.737E-06	3.221E-05	800
114.0	21.0	23729	5.932E-06	4.034E-05	800
114.0	25.2	21313	5.328E-06	3.623E-05	800
114.0	29.4	31066	7.767E-06	5.281E-05	800
114.0	33.6	38063	9.516E-06	6.471E-05	800
114.0	37.8	45986	1.150E-05	7.818E-05	800
114.0	42.0	59885	1.497E-05	1.018E-04	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SG.M	DISTANCE METERS
122.0	0.3	201	5.044E-08	3.431E-07	800
122.0	0.5	87	2.197E-08	1.494E-07	800
122.0	1.0	100	9.757E-08	6.635E-07	800
122.0	2.1	69	1.727E-08	1.175E-07	800
122.0	4.2	528	1.321E-07	8.984E-07	800
122.0	6.3	459	1.148E-07	7.809E-07	800
122.0	8.4	629	1.573E-07	1.070E-06	800
122.0	10.5	470	1.176E-07	8.000E-07	800
122.0	12.6	526	1.302E-07	8.857E-07	800
122.0	14.7	1212	3.081E-07	2.095E-06	800
122.0	16.8	2502	4.256E-07	4.254E-06	800
122.0	21.0	2248	5.621E-07	3.822E-06	800
122.0	25.2	3330	8.327E-07	5.662E-06	800
122.0	29.4	4138	1.035E-06	7.036E-06	800
122.0	33.6	6120	1.530E-06	1.040E-05	800
122.0	37.8	13052	3.263E-06	2.219E-05	800
122.0	42.0	19274	4.819E-06	3.277E-05	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SG.M	DISTANCE METERS
130.0	4.2	72	1.821E-08	1.235E-07	800
130.0	6.3	72	1.821E-08	1.235E-07	800
130.0	8.4	84	2.101E-08	1.429E-07	800
130.0	10.5	44	1.120E-08	7.619E-08	800
130.0	12.6	106	2.661E-08	1.809E-07	800
130.0	14.7	44	1.120E-08	7.619E-08	800
130.0	16.8	72	1.821E-08	1.235E-07	800
130.0	21.0	72	1.821E-08	1.235E-07	800
130.0	25.2	65	1.650E-08	1.122E-07	800
130.0	29.4	167	4.175E-08	2.839E-07	800
130.0	33.6	17	4.377E-09	2.977E-08	800
130.0	37.8	37	9.428E-09	6.411E-08	800

TEST S1 MAY 13, 1964 0355 TO 0433 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 6.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SG.M	DISTANCE METERS
110.0	69	1.742E-08	1.184E-07	1600
111.0	286	7.172E-08	4.877E-07	1600
112.0	954	2.387E-07	1.623E-06	1600
113.0	2247	5.620E-07	3.822E-06	1600
114.0	5772	1.403E-06	9.814E-06	1600
115.0	6248	1.542E-06	1.062E-05	1600
116.0	10702	2.686E-06	1.826E-05	1600
117.0	13500	3.375E-06	2.295E-05	1600
118.0	24264	6.066E-06	4.125E-05	1600
119.0	15733	3.933E-06	2.675E-05	1600
120.0	11658	2.915E-06	1.902E-05	1600
121.0	7046	1.862E-06	1.266E-05	1600
122.0	4264	1.066E-06	7.250E-06	1600
123.0	3276	8.192E-07	5.570E-06	1600
124.0	2042	6.107E-07	4.153E-06	1600
125.0	1889	4.723E-07	3.212E-06	1600
126.0	1653	4.134E-07	2.811E-06	1600
127.0	483	1.269E-07	8.221E-07	1600
128.0	321	8.043E-08	5.469E-07	1600
129.0	143	3.586E-08	2.439E-07	1600
130.0	30	7.685E-09	5.226E-08	1600
131.0	69	1.762E-08	1.184E-07	1600

CROSSKAT INTEGRATED= 7.924E-04 SEC/SG.M
5.388E-03 1/M

TOWER DATA FOLLOW...

TEST 91 MAY 13, 1964 0355 TO 0433 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC U= 6.8 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SG.M	DISTANCE METERS
98.0	3.1	32	8.132E-09	5.530E-08	1600
98.0	6.2	22	5.545E-09	3.770E-08	1600
98.0	9.3	20	5.175E-09	3.519E-08	1600
98.0	12.4	25	6.284E-09	4.273E-08	1600
98.0	15.5	18	4.866E-09	2.765E-08	1600
98.0	18.6	16	4.066E-09	2.765E-08	1600
98.0	21.7	11	2.957E-09	2.011E-08	1600
98.0	24.8	11	2.800E-09	1.904E-08	1600
98.0	31.0	5	1.400E-09	9.518E-09	1600
98.0	37.2	12	3.080E-09	2.094E-08	1600
98.0	43.4	16	4.199E-09	2.856E-08	1600
98.0	49.6	13	3.392E-09	2.307E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SG.M	DISTANCE METERS
106.0	0.4	21	5.367E-09	3.650E-08	1600
106.0	1.5	13	3.327E-09	2.262E-08	1600
106.0	3.1	36	9.241E-09	6.280E-08	1600
106.0	6.2	73	1.848E-08	1.257E-07	1600
106.0	9.3	29	7.393E-09	5.027E-08	1600
106.0	12.4	54	1.368E-08	9.300E-08	1600
106.0	15.5	40	1.516E-08	1.031E-07	1600
106.0	18.6	44	1.109E-08	7.541E-08	1600
106.0	24.8	24	6.159E-09	4.188E-08	1600
106.0	31.0	54	1.372E-08	9.328E-08	1600
106.0	37.2	39	9.798E-09	6.663E-08	1600
106.0	43.4	42	1.064E-08	7.234E-08	1600
106.0	49.6	1	4.281E-10	2.884E-09	1600
106.0	55.8	11	2.756E-09	1.874E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SG.M	DISTANCE METERS
114.0	0.2	4941	1.110E-06	7.551E-06	1600
114.0	0.4	4581	1.138E-06	7.737E-06	1600
114.0	0.8	4888	1.217E-06	8.277E-06	1600
114.0	1.5	4681	1.178E-06	7.958E-06	1600
114.0	3.1	4911	1.228E-06	8.350E-06	1600
114.0	6.2	5870	1.468E-06	9.979E-06	1600
114.0	9.3	5633	1.408E-06	9.577E-06	1600
114.0	12.4	8688	2.172E-06	1.477E-05	1600
114.0	15.5	9984	2.496E-06	1.697E-05	1600
114.0	18.6	10548	2.637E-06	1.793E-05	1600
114.0	21.7	13551	3.388E-06	2.304E-05	1600
114.0	24.8	12836	3.209E-06	2.182E-05	1600
114.0	31.0	15381	3.845E-06	2.615E-05	1600
114.0	37.2	23227	5.807E-06	3.949E-05	1600
114.0	43.4	30788	7.677E-06	5.221E-05	1600
114.0	49.6	20285	5.071E-06	3.449E-05	1600
114.0	55.8	13824	3.454E-06	2.350E-05	1600
114.0	62.0	16159	4.040E-06	2.747E-05	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/80,M	DISTANCE METERS
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122.0	0.2	3621	9.054E-07	6.157E-06	1600
122.0	0.4	4145	1.036E-06	7.047E-06	1600
122.0	0.8	4654	1.164E-06	7.912E-06	1600
122.0	1.5	5505	1.764E-07	5.960E-06	1600
122.0	3.1	3523	9.809E-07	5.990E-06	1600
122.0	6.2	4835	1.209E-06	8.220E-06	1600
122.0	9.3	5033	1.258E-06	8.554E-06	1600
122.0	12.4	5837	1.459E-06	9.924E-06	1600
122.0	15.5	8500	2.125E-06	1.445E-05	1600
122.0	18.6	10183	2.546E-06	1.731E-05	1600
122.0	21.7	10906	2.727E-06	1.854E-05	1600
122.0	24.8	7474	1.869E-06	1.271E-05	1600
122.0	31.0	9977	2.494E-06	1.694E-05	1600
122.0	37.2	14060	3.601E-06	2.449E-05	1600
122.0	43.4	16784	4.197E-06	2.850E-05	1600
122.0	49.6	12646	3.162E-06	2.150E-05	1600
122.0	55.8	11573	2.893E-06	1.967E-05	1600
122.0	62.0	10488	2.712E-06	1.844E-05	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/80,M	DISTANCE METERS
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M 130.0	0.8	25	6.440E-09	4.379E-08	1600
130.0	1.5	14	3.696E-09	2.514E-08	1600
130.0	3.1	29	7.393E-09	5.027E-08	1600
130.0	6.2	34	9.241E-09	6.284E-08	1600
130.0	9.3	42	1.072E-08	7.289E-08	1600
130.0	12.4	99	2.477E-08	1.684E-07	1600
130.0	15.5	20	7.393E-09	5.027E-08	1600
130.0	18.6	124	3.105E-08	2.111E-07	1600
130.0	21.7	43	1.549E-08	1.081E-07	1600
130.0	24.8	42	1.548E-08	1.066E-07	1600
130.0	31.0	13	3.359E-09	2.284E-08	1600
130.0	37.2	29	7.279E-09	4.950E-08	1600
130.0	43.4	50	1.260E-08	8.567E-08	1600
130.0	49.6	34	9.117E-09	6.200E-08	1600
130.0	55.8	61	1.548E-08	1.052E-07	1600
130.0	62.0	681	1.795E-07	1.159E-06	1600

TEST S1 MAY 13, 1964 0355 TO 0433 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLE HT 1.5M U= 6.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/80,M	DISTANCE METERS
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112.0	47	1.189E-08	8.087E-08	3200
113.0	329	8.228E-08	5.595E-07	3200
114.0	962	2.405E-07	1.636E-06	3200
115.0	2333	5.833E-07	3.966E-06	3200
116.0	4684	1.171E-06	7.964E-06	3200
117.0	10622	2.656E-06	1.806E-05	3200
118.0	23786	5.947E-06	4.044E-05	3200
119.0	20533	5.133E-06	3.491E-05	3200
120.0	13417	3.354E-06	2.281E-05	3200
121.0	10739	2.685E-06	1.826E-05	3200
122.0	6051	1.513E-06	1.029E-05	3200
123.0	6407	1.602E-06	1.089E-05	3200
124.0	8490	2.123E-06	1.443E-05	3200
125.0	4782	1.196E-06	8.130E-06	3200
126.0	3029	7.573E-07	5.150E-06	3200
127.0	1208	3.022E-07	2.055E-06	3200
128.0	349	8.738E-08	5.942E-07	3200
129.0	72	1.420E-08	1.238E-07	3200
131.0	12	3.155E-09	2.106E-08	3200
132.0	16	4.126E-09	2.806E-08	3200
161.0	32	8.010E-09	5.447E-08	3200

CROSSWIND INTEGRATED* 1.456E-03 1.126E-02
SEC/80,M 1/M

TOWER DATA FOLLOWING...

TEST S1 MAY 13, 1964 0355 TO 0433 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
3200M ARC U= 6.8 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/80,M	DISTANCE METERS
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114.0	0.2	843	2.104E-07	1.433E-06	3200
114.0	0.4	699	1.744E-07	1.189E-06	3200
114.0	0.8	888	2.222E-07	1.511E-06	3200
114.0	1.5	713	1.784E-07	1.213E-06	3200
114.0	3.1	883	2.210E-07	1.503E-06	3200
114.0	6.2	915	2.289E-07	1.557E-06	3200
114.0	9.3	903	2.259E-07	1.536E-06	3200
114.0	12.4	707	1.769E-07	1.203E-06	3200
114.0	15.5	716	1.790E-07	1.217E-06	3200
114.0	18.6	692	1.732E-07	1.178E-06	3200
114.0	21.7	667	1.668E-07	1.134E-06	3200
114.0	24.8	460	1.152E-07	7.830E-07	3200
114.0	31.0	308	7.797E-08	5.241E-07	3200
114.0	37.2	184	4.602E-08	3.130E-07	3200
114.0	43.4	190	4.765E-08	3.240E-07	3200
114.0	49.6	98	2.468E-08	1.678E-07	3200
114.0	55.8	96	2.407E-08	1.637E-07	3200
114.0	62.0	58	1.468E-08	9.986E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/80,M	DISTANCE METERS
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Z 122.0	0.2	1598	3.996E-07	2.717E-06	3200
Z 122.0	0.4	2074	5.186E-07	3.527E-06	3200
Z 122.0	0.8	2201	5.595E-07	3.743E-06	3200
Z 122.0	1.5	1457	4.144E-07	2.818E-06	3200
122.0	3.1	8249	2.062E-06	1.402E-05	3200
122.0	6.2	7213	1.803E-06	1.226E-05	3200
122.0	9.3	10627	2.657E-06	1.807E-05	3200
122.0	12.4	13324	3.331E-06	2.265E-05	3200
122.0	15.5	16436	4.109E-06	2.794E-05	3200
122.0	18.6	17472	4.368E-06	2.970E-05	3200
122.0	21.7	21041	5.270E-06	3.584E-05	3200
122.0	24.8	16848	4.212E-06	2.864E-05	3200
122.0	31.0	17492	4.373E-06	2.974E-05	3200
122.0	37.2	16682	4.171E-06	2.836E-05	3200
122.0	43.4	13636	3.409E-06	2.318E-05	3200
122.0	49.6	8806	1.724E-06	1.172E-05	3200
122.0	55.8	6661	1.665E-06	1.132E-05	3200
122.0	62.0	6197	1.602E-06	1.089E-05	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/80,M	DISTANCE METERS
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130.0	0.2	11	2.803E-09	1.906E-08	3200
130.0	0.4	48	1.223E-08	8.318E-08	3200
130.0	1.5	24	6.025E-09	4.097E-08	3200
130.0	12.4	15	3.873E-09	2.634E-08	3200
130.0	15.5	12	3.228E-09	2.195E-08	3200
130.0	18.6	30	7.531E-09	5.121E-08	3200
130.0	21.7	20	5.164E-09	3.512E-08	3200
130.0	24.8	61	1.534E-08	1.043E-07	3200
130.0	31.0	41	1.047E-08	7.118E-08	3200
130.0	37.2	116	2.924E-08	1.988E-07	3200
130.0	43.4	121	3.032E-08	2.062E-07	3200
130.0	49.6	181	4.526E-08	3.078E-07	3200
130.0	55.8	346	8.675E-08	5.899E-07	3200
130.0	62.0	852	2.130E-07	1.448E-06	3200

TEST 81 MAY 13, 1964 0755 TO 0433 PGT
 ZINC SULFIDE HELFASZ FROM ELEVATION OF 56M
 12800M ADC SAMPLED HT 1.5M U= 6.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	EU/G 1/SEC, M	DISTANCE METERS
90.0	6	1.569E-09	1.067E-08	12800
105.0	34	8.517E-09	5.791E-08	12800
4 106.0	3	8.218E-10	5.588E-09	12800
108.0	36	9.040E-09	6.107E-08	12800
109.0	21	5.379E-09	3.658E-08	12800
110.0	8	2.147E-09	1.473E-08	12800
111.0	37	9.413E-09	6.401E-08	12800
112.0	35	8.965E-09	6.096E-08	12800
114.0	147	3.683E-08	2.505E-07	12800
115.0	114	2.849E-08	1.951E-07	12800
3 116.0	138	3.859E-08	2.352E-07	12800
117.0	562	1.406E-07	9.561E-07	12800
119.0	1063	2.659E-07	1.808E-06	12800
120.0	1500	3.750E-07	2.550E-06	12800
121.0	1924	4.811E-07	3.272E-06	12800
122.0	2793	6.983E-07	4.748E-06	12800
3 123.0	1142	2.855E-07	1.942E-06	12800
7 124.0	271	6.798E-08	4.623E-07	12800
9 125.0	112	2.809E-08	1.910E-07	12800
126.0	152	3.810E-08	2.591E-07	12800
127.0	61	1.532E-08	1.041E-07	12800
128.0	40	1.009E-08	6.858E-08	12800
129.0	56	1.419E-08	9.652E-08	12800
130.0	60	1.502E-08	1.021E-07	12800

CROSSKTD INTEGRATED= 6.465E-04 8.396E-03
 SEC/30, M 1/M

SERIES '64 EXPERIMENT: 2 (S-2)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS. GROUND LEVEL
SAMPLING ONLY ON THE 12800 M ARC.

TEST S2 MAY 26, 1964 0341 TO 0407 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/C SEC/CM ²	EU/G 1/SG,M	DISTANCE METERS
102.0	74	1.851E-08	1.055E-07	200	
104.0	67	1.643E-08	9.591E-08	200	
106.0	67	1.643E-08	9.591E-08	200	
108.0	26	6.711E-09	3.836E-08	200	
110.0	80	2.019E-08	1.151E-07	200	
112.0	53	1.306E-08	7.673E-08	200	
122.0	37	9.254E-09	5.275E-08	200	
124.0	40	1.010E-08	5.755E-08	200	

CROSSROAD INTEGRATED= 1.239E-06 7.064E-06
SEC/SG,M 1/M

TOWER DATA FOLLOWS...

TEST S2 MAY 26, 1964 0341 TO 0407 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC U= 5.7 M/SEC AT 56M

AZIMUTH HEIGHT DEGREES METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/C SEC/CM ²	EU/G 1/SG,M	DISTANCE METERS	
98.0	0.3	87	2.187E-08	1.247E-07	200

AZIMUTH HEIGHT DEGREES METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/C SEC/CM ²	EU/G 1/SG,M	DISTANCE METERS	
106.0	0.3	100	2.520E-08	1.439E-07	200
106.0	0.7	154	3.870E-08	2.206E-07	200

AZIMUTH HEIGHT DEGREES METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/C SEC/CM ²	EU/G 1/SG,M	DISTANCE METERS	
114.0	0.3	171	4.291E-08	2.446E-07	200
114.0	0.7	252	6.310E-08	3.597E-07	200
114.0	1.0	29	7.481E-09	4.264E-08	200

AZIMUTH HEIGHT DEGREES METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/C SEC/CM ²	EU/G 1/SG,M	DISTANCE METERS	
130.0	0.3	47	1.178E-08	6.714E-08	200

TEST S2 MAY 26, 1964 0341 TO 0407 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/C SEC/CM ²	EU/G 1/SG,M	DISTANCE METERS
108.0	156	3.906E-08	2.227E-07	800	
112.0	100	2.523E-08	1.438E-07	800	
114.0	81	2.035E-08	1.160E-07	800	

CROSSROAD INTEGRATED= 4.091E-06 2.332E-05
SEC/SG,M 1/M

TOWER DATA FOLLOWS...

TEST S2 MAY 26, 1964 0341 TO 0407 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
800M ARC U= 5.7 M/SEC AT 56M

AZIMUTH HEIGHT DEGREES METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/C SEC/CM ²	EU/G 1/SG,M	DISTANCE METERS	
98.0	25.2	55	1.385E-08	7.897E-08	800
98.0	29.4	70	1.775E-08	1.012E-07	800
98.0	33.6	41	1.039E-08	5.922E-08	800
98.0	37.8	41	1.039E-08	5.922E-08	800
98.0	42.0	17	4.329E-09	2.468E-08	800

AZIMUTH HEIGHT DEGREES METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/C SEC/CM ²	EU/G 1/SG,M	DISTANCE METERS	
106.0	0.3	2112	5.282E-07	3.011E-06	800
106.0	0.5	84	2.116E-08	1.206E-07	800
106.0	1.0	13	3.340E-09	1.904E-08	800
106.0	2.1	91	2.282E-08	1.301E-07	800
106.0	4.2	467	1.169E-07	6.663E-07	800
106.0	6.3	663	1.659E-07	9.055E-07	800
106.0	8.4	11	2.783E-09	1.586E-08	800
106.0	10.5	351	8.795E-08	5.013E-07	800
106.0	12.6	82	2.060E-08	1.174E-07	800
106.0	14.7	133	3.340E-08	1.904E-07	800
106.0	16.8	309	7.737E-08	4.010E-07	800
106.0	21.0	2037	5.093E-07	2.903E-06	800
106.0	25.2	2782	6.957E-07	3.966E-06	800
106.0	29.4	16077	4.019E-06	2.291E-05	800
106.0	33.6	35472	8.768E-06	4.998E-05	800
106.0	37.8	88564	2.214E-05	1.262E-04	800
106.0	42.0	150327	3.758E-05	2.142E-04	800

AZIMUTH HEIGHT DEGREES METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/C SEC/CM ²	EU/G 1/SG,M	DISTANCE METERS	
114.0	0.3	110	2.747E-08	1.577E-07	800
114.0	0.5	117	2.930E-08	1.670E-07	800

TEST S2 MAY 26, 1964 0341 TO 0407 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
98.0	117	2.930E-08	1.670E-07	1600
99.0	207	5.185E-08	2.955E-07	1600
100.0	392	9.806E-08	5.589E-07	1600
101.0	27	6.762E-09	3.855E-08	1600
102.0	482	1.206E-07	6.874E-07	1600
103.0	297	7.439E-08	4.240E-07	1600
104.0	146	4.170E-08	2.377E-07	1600
105.0	270	6.762E-08	3.855E-07	1600
106.0	583	1.460E-07	8.319E-07	1600
107.0	597	1.268E-07	7.227E-07	1600
108.0	295	7.382E-08	4.208E-07	1600
109.0	655	1.440E-07	8.347E-07	1600
110.0	227	5.692E-08	3.200E-07	1600
111.0	1731	4.328E-07	2.467E-06	1600
112.0	591	1.450E-07	8.287E-07	1600
113.0	81	2.029E-08	1.156E-07	1600

CROSSHAIR INTEGRATED= 4.629E-05 2.636E-04
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST S2 MAY 26, 1964 0341 TO 0407 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC U= 5.7 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
106.0	9.2	326	8.171E-08	4.658E-07	1600
106.0	9.4	417	1.043E-07	5.942E-07	1600
106.0	9.8	442	1.155E-07	6.585E-07	1600
106.0	1.5	306	8.672E-08	4.943E-07	1600
106.0	3.1	602	1.507E-07	8.589E-07	1600
106.0	6.2	619	1.550E-07	8.834E-07	1600
106.0	9.3	477	1.194E-07	6.803E-07	1600
106.0	12.4	498	1.205E-07	7.097E-07	1600
106.0	15.5	1128	2.821E-07	1.608E-06	1600
106.0	18.6	666	1.666E-07	9.495E-07	1600
106.0	21.7	2625	6.560E-07	3.742E-06	1600
106.0	24.8	2681	6.705E-07	3.822E-06	1600
106.0	31.0	9080	2.270E-06	1.294E-05	1600
106.0	37.2	29142	7.286E-06	4.153E-05	1600
106.0	43.4	40294	1.007E-05	5.742E-05	1600
106.0	49.6	13885	3.471E-06	1.979E-05	1600
106.0	55.8	11681	2.920E-06	1.665E-05	1600
106.0	62.0	5012	1.253E-06	7.143E-06	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
114.0	12.4	111	2.791E-08	1.591E-07	1600
114.0	15.5	269	6.740E-08	3.842E-07	1600
114.0	18.6	783	1.958E-07	1.116E-06	1600
114.0	21.7	4598	1.150E-06	6.553E-06	1600
114.0	24.8	11067	2.767E-06	1.577E-05	1600
114.0	31.0	81673	2.042E-05	1.164E-04	1600
114.0	37.2	156510	3.913E-05	2.230E-04	1600
114.0	43.4	225596	5.640E-05	3.215E-04	1600
114.0	49.6	96113	2.403E-05	1.370E-04	1600
114.0	55.8	80406	2.010E-05	1.146E-04	1600
114.0	62.0	28079	7.020E-06	4.001E-05	1600

TEST S2 MAY 26, 1964 0341 TO 0407 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
74.0	15	3.823E-09	2.179E-08	3200
75.0	27	6.881E-09	3.922E-08	3200
76.0	11	2.803E-09	1.598E-08	3200
77.0	22	5.607E-09	3.196E-08	3200
78.0	33	8.810E-09	4.794E-08	3200
79.0	31	7.900E-09	4.503E-08	3200
80.0	26	6.626E-09	3.777E-08	3200
81.0	30	7.406E-09	4.352E-08	3200
82.0	31	7.900E-09	4.503E-08	3200
83.0	50	1.351E-08	7.699E-08	3200
84.0	51	1.300E-08	7.409E-08	3200
85.0	34	8.665E-09	4.939E-08	3200
86.0	23	5.862E-09	3.301E-08	3200
87.0	32	8.165E-09	4.649E-08	3200
88.0	47	1.198E-08	6.822E-08	3200
89.0	34	8.665E-09	4.939E-08	3200
90.0	16	4.878E-09	2.324E-08	3200
91.0	31	7.900E-09	4.503E-08	3200
92.0	18	4.587E-09	2.615E-08	3200
93.0	17	4.333E-09	2.470E-08	3200
94.0	76	1.911E-08	1.090E-07	3200
95.0	58	1.853E-08	8.280E-08	3200
96.0	35	8.920E-09	5.084E-08	3200
97.0	26	6.626E-09	3.777E-08	3200
98.0	49	1.209E-08	7.118E-08	3200
99.0	95	2.394E-08	1.366E-07	3200
100.0	200	5.021E-08	2.862E-07	3200
101.0	405	1.014E-07	5.782E-07	3200
102.0	560	1.402E-07	7.990E-07	3200
103.0	706	1.744E-07	1.007E-06	3200
104.0	1220	3.051E-07	1.739E-06	3200
105.0	1512	3.752E-07	2.156E-06	3200
106.0	75	1.886E-08	1.075E-07	3200
107.0	3449	8.620E-07	4.916E-06	3200
108.0	4973	1.248E-06	7.115E-06	3200
109.0	5291	1.323E-06	7.541E-06	3200
110.0	239	5.989E-08	3.414E-07	3200
111.0	179	4.485E-08	2.557E-07	3200
112.0	254	6.371E-08	3.632E-07	3200
113.0	5347	1.342E-06	7.648E-06	3200
114.0	1630	4.075E-07	2.323E-06	3200
115.0	92	2.319E-08	1.322E-07	3200

CROSSHAIR INTEGRATED= 3.786E-04 2.158E-03
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST S2 MAY 26, 1964 0341 TO 0407 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
3200M ARC U= 5.7 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
98.0	0.2	18	4.587E-09	2.615E-08	3200
99.0	0.4	37	9.430E-09	5.375E-08	3200
99.0	0.8	28	7.136E-09	4.067E-08	3200
99.0	1.5	63	1.599E-08	9.112E-08	3200
99.0	3.1	51	1.252E-08	7.395E-08	3200
99.0	6.2	47	1.182E-08	6.735E-08	3200
99.0	9.3	72	1.807E-08	1.030E-07	3200
99.0	12.4	20	6.024E-09	3.434E-08	3200
99.0	15.5	47	1.182E-08	6.735E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SG.M	DISTANCE METERS
106.0	0.2	127	8.181E-08	4.663E-07	3200
106.0	0.4	305	7.644E-08	4.358E-07	3200
106.0	0.8	177	4.430E-08	2.528E-07	3200
106.0	1.5	57	1.436E-08	8.188E-08	3200
106.0	3.1	1909	4.773E-07	2.720E-06	3200
106.0	6.2	319	7.993E-08	4.556E-07	3200
106.0	9.3	1871	4.678E-07	2.666E-06	3200
106.0	12.4	2736	6.842E-07	3.900E-06	3200
106.0	15.5	1907	4.768E-07	2.718E-06	3200
106.0	18.6	3028	7.571E-07	4.316E-06	3200
106.0	21.7	4176	1.040E-06	5.952E-06	3200
106.0	24.8	4333	1.083E-06	6.175E-06	3200
106.0	31.0	8326	2.082E-06	1.166E-05	3200
106.0	37.2	5244	1.311E-06	7.473E-06	3200
106.0	43.4	2810	7.025E-07	4.004E-06	3200
106.0	49.6	984	2.461E-07	1.403E-06	3200
106.0	55.8	173	4.339E-08	2.473E-07	3200
106.0	62.0	4	1.050E-09	6.008E-09	3200

TEST 52 MAY 26, 1964 0301 TO 0407 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200N AGC SAMPLER HT 1.9M U= 5.7 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SG.M	DISTANCE METERS
1	110.0	47	1.188E-08	6.771E-08	12800
2	113.0	9	2.465E-09	1.405E-08	12800
4	114.0	4	1.121E-09	6.388E-09	12800
4	115.0	2	5.230E-10	2.981E-09	12800
5	117.0	18	4.707E-09	2.683E-08	12800
5	119.0	4	1.046E-09	5.962E-09	12800
	120.0	10	2.540E-09	1.448E-08	12800
	121.0	5	1.494E-09	8.517E-09	12800
	123.0	23	5.902E-09	3.364E-08	12800
	124.0	5	1.419E-09	8.091E-09	12800
	126.0	3	8.218E-10	4.684E-09	12800
4	128.0	5	1.419E-09	8.091E-09	12800
	130.0	4	1.046E-09	5.962E-09	12800

CPDSSW1ND INTEGRATED= 1.693E-05 9.651E-05
SEC/SG.M 1/M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SG.M	DISTANCE METERS
110.0	0.2	1088	2.722E-07	1.551E-06	3200
114.0	0.4	747	1.868E-07	1.065E-06	3200
114.0	0.8	1009	2.523E-07	1.433E-06	3200
114.0	1.5	1467	3.670E-07	2.092E-06	3200
114.0	3.1	1487	3.619E-07	2.063E-06	3200
114.0	6.2	3210	8.024E-07	4.575E-06	3200
114.0	9.3	5964	1.491E-06	8.499E-06	3200
114.0	12.4	8487	2.122E-06	1.209E-05	3200
114.0	15.5	9228	2.307E-06	1.315E-05	3200
114.0	18.6	15979	3.995E-06	2.277E-05	3200
114.0	21.7	19397	4.849E-06	2.768E-05	3200
114.0	24.8	18910	4.728E-06	2.695E-05	3200
114.0	31.0	27518	6.880E-06	3.921E-05	3200
114.0	37.2	29909	7.477E-06	4.262E-05	3200
114.0	43.4	49077	1.002E-05	5.711E-05	3200
114.0	49.6	27423	6.856E-06	3.908E-05	3200
114.0	55.8	18039	4.510E-06	2.571E-05	3200
114.0	62.0	13869	3.467E-06	1.974E-05	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SG.M	DISTANCE METERS
122.0	0.2	27	6.881E-09	3.922E-08	3200
122.0	0.4	13	3.313E-09	1.888E-08	3200
122.0	0.8	30	7.646E-09	4.358E-08	3200

SERIES '64 EXPERIMENT: 4 (S-4)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS. GROUND LEVEL
SAMPLING ONLY ON THE 12800 M ARC.

TEST S4 JUNE 10, 1964 0218 TO 0244 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
142.0	43	1.094E-08	7.109E-08	200

TOWER DATA FOLLOW....

TEST S4 JUNE 10, 1964 0218 TO 0244 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC U= 6.5 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	16.2	23	5.872E-09	3.817E-08	200
98.0	18.9	49	1.240E-08	8.058E-08	200
98.0	21.6	120	3.001E-08	1.951E-07	200
98.0	24.3	1619	4.048E-07	2.631E-06	200
98.0	27.0	3798	9.497E-07	6.173E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	34.0	27	6.928E-09	4.503E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	5.0	1920	4.802E-07	3.122E-06	200
114.0	8.1	23	5.872E-09	3.817E-08	200
114.0	9.8	23	5.872E-09	3.817E-08	200
114.0	10.8	247	6.199E-08	4.029E-07	200
114.0	13.5	587	1.468E-07	9.543E-07	200
114.0	16.2	57	1.435E-08	9.331E-08	200
114.0	18.0	122	3.067E-08	1.993E-07	200
114.0	21.6	1526	3.817E-07	2.481E-06	200
114.0	24.3	3008	7.522E-07	4.889E-06	200
114.0	27.0	578	1.845E-07	9.393E-07	200

TEST S4 JUNE 10, 1964 0218 TO 0244 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
90.0	39	9.746E-09	6.348E-08	800
92.0	32	8.118E-09	5.290E-08	800
94.0	246	7.162E-08	4.655E-07	800
96.0	563	1.408E-07	9.151E-07	800
98.0	1194	2.987E-07	1.941E-06	800
100.0	1767	4.419E-07	2.872E-06	800
102.0	3268	8.171E-07	5.311E-06	800
104.0	5703	1.426E-06	9.262E-06	800
106.0	3411	8.529E-07	5.544E-06	800
108.0	1340	3.461E-07	2.243E-06	800
110.0	673	1.685E-07	1.095E-06	800
112.0	833	2.043E-07	1.350E-06	800
114.0	136	3.418E-08	2.222E-07	800
116.0	126	3.174E-08	2.063E-07	800

CROSSWIND INTEGRATED= 1.356E-04 SEC/30.M 8.811E-04 1/M

TOWER DATA FOLLOW....

TEST S4 JUNE 10, 1964 0218 TO 0244 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC U= 6.5 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.3	1074	2.692E-07	1.750E-06	800
98.0	0.5	1039	2.598E-07	1.689E-06	800
98.0	1.0	1057	2.645E-07	1.719E-06	800
98.0	2.1	1610	4.027E-07	2.617E-06	800
98.0	4.2	1918	4.797E-07	3.118E-06	800
98.0	6.3	1936	4.841E-07	3.147E-06	800
98.0	8.4	1464	3.661E-07	2.380E-06	800
98.0	10.5	1290	3.225E-07	2.096E-06	800
98.0	12.6	1052	2.632E-07	1.711E-06	800
98.0	14.7	618	1.546E-07	1.005E-06	800
98.0	16.8	542	1.357E-07	8.821E-07	800
98.0	21.9	398	9.973E-08	6.482E-07	800
98.0	25.2	185	4.644E-08	3.018E-07	800
98.0	29.4	51	1.293E-08	8.401E-08	800
98.0	33.6	78	1.963E-08	1.276E-07	800
98.0	37.8	44	1.101E-08	7.157E-08	800
98.0	42.0	34	8.617E-09	5.601E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/Q SEC/CM.	EU/Q 1/SG.M	DISTANCE METERS
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106.0	0.3	1879	4.700E-07	3.055E-06	800
106.0	0.5	2713	6.785E-07	4.410E-06	800
106.0	1.0	2156	5.390E-07	3.504E-06	800
106.0	2.1	2433	6.085E-07	3.955E-06	800
106.0	4.2	4620	1.155E-06	7.508E-06	800
106.0	6.3	5417	1.354E-06	8.804E-06	800
106.0	8.4	8336	2.084E-06	1.355E-05	800
106.0	10.5	10426	2.607E-06	1.694E-05	800
106.0	12.6	12901	3.225E-06	2.096E-05	800
106.0	14.7	15118	3.785E-06	2.460E-05	800
106.0	16.8	16551	4.138E-06	2.690E-05	800
106.0	21.0	21942	5.486E-06	3.564E-05	800
106.0	25.2	28729	4.682E-06	3.043E-05	800
106.0	29.4	34593	4.648E-06	3.021E-05	800
106.0	33.6	35552	3.888E-06	2.527E-05	800
106.0	37.8	33379	3.345E-06	2.174E-05	800
106.0	42.0	10570	2.637E-06	1.714E-05	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/Q SEC/CM.	EU/Q 1/SG.M	DISTANCE METERS
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114.0	0.3	37	9.400E-09	6.110E-08	800
114.0	0.5	54	1.367E-08	8.887E-08	800
114.0	1.0	88	1.704E-08	1.108E-07	800
114.0	2.1	138	3.471E-08	2.256E-07	800
114.0	4.2	166	3.913E-08	2.544E-07	800
114.0	6.3	679	1.698E-07	1.104E-06	800
114.0	8.4	616	1.540E-07	1.001E-06	800
114.0	10.5	1560	3.901E-07	2.535E-06	800
114.0	12.6	3092	7.732E-07	5.026E-06	800
114.0	14.7	4862	1.216E-06	7.902E-06	800
114.0	16.8	6998	1.750E-06	1.137E-05	800
114.0	21.0	11668	2.902E-06	1.886E-05	800
114.0	25.2	15204	3.811E-06	2.477E-05	800
114.0	29.4	28902	7.226E-06	4.697E-05	800
114.0	33.6	43070	1.077E-05	6.999E-05	800
114.0	37.8	50540	1.264E-05	8.213E-05	800
114.0	42.0	74177	1.854E-05	1.205E-04	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/Q SEC/CM.	EU/Q 1/SG.M	DISTANCE METERS
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122.0	10.5	111	2.777E-08	1.805E-07	800
122.0	12.6	323	8.079E-08	5.251E-07	800
122.0	14.7	300	7.511E-08	4.882E-07	800
122.0	16.8	850	2.127E-07	1.383E-06	800
122.0	21.0	1519	3.800E-07	2.470E-06	800
122.0	25.2	3159	7.899E-07	5.134E-06	800
122.0	29.4	7952	1.989E-06	1.292E-05	800
122.0	33.6	12555	3.139E-06	2.040E-05	800
122.0	37.8	20056	5.014E-06	3.259E-05	800
122.0	42.0	48767	1.219E-05	7.925E-05	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/Q SEC/CM.	EU/Q 1/SG.M	DISTANCE METERS
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130.0	37.8	30	7.659E-09	4.979E-08	800
130.0	42.0	229	5.745E-08	3.734E-07	800

TEST 84 JUNE 10, 1964 0218 TO 0240 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M W 6.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. X10E+6	E/Q SEC/CM.	EU/Q 1/SG.M	DISTANCE METERS
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96.0	36	9.124E-09	5.931E-08	1600
97.0	150	3.757E-08	2.442E-07	1600
98.0	450	1.127E-07	7.326E-07	1600
99.0	1170	2.925E-07	1.901E-06	1600
100.0	1373	3.435E-07	2.233E-06	1600
101.0	1749	4.374E-07	2.843E-06	1600
102.0	2808	7.020E-07	4.563E-06	1600
103.0	3945	9.865E-07	6.412E-06	1600
104.0	4480	1.120E-06	7.281E-06	1600
105.0	3819	9.548E-07	6.206E-06	1600
106.0	5092	1.273E-06	8.275E-06	1600
107.0	5798	1.450E-06	9.023E-06	1600
108.0	6657	1.668E-06	1.082E-05	1600
109.0	4750	1.188E-06	7.720E-06	1600
110.0	3482	8.705E-07	5.658E-06	1600
111.0	4440	1.120E-06	7.281E-06	1600
112.0	4497	1.124E-06	7.309E-06	1600
113.0	3898	9.746E-07	6.335E-06	1600
114.0	2850	7.127E-07	4.633E-06	1600
115.0	3548	8.872E-07	5.767E-06	1600
116.0	1912	4.782E-07	3.108E-06	1600
117.0	1283	3.209E-07	2.086E-06	1600
118.0	661	1.653E-07	1.074E-06	1600
119.0	583	1.460E-07	9.489E-07	1600
120.0	515	1.288E-07	8.373E-07	1600
121.0	671	1.680E-07	1.092E-06	1600
122.0	882	2.206E-07	1.434E-06	1600
123.0	1079	2.700E-07	1.755E-06	1600
124.0	1487	3.719E-07	2.418E-06	1600
125.0	502	1.256E-07	8.163E-07	1600
126.0	478	1.186E-07	7.710E-07	1600
127.0	49	1.234E-08	8.024E-08	1600
128.0	75	1.878E-08	1.221E-07	1600
129.0	27	6.977E-09	4.535E-08	1600

CROSSWIND INTEGRATED= 5.253E-04 3.415E-03
SEC/SG.M 1/M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/Q SEC/CM.	EU/Q 1/SG.M	DISTANCE METERS
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114.0	0.2	2880	7.202E-07	4.681E-06	1600
114.0	0.4	2524	6.312E-07	4.103E-06	1600
114.0	0.8	2353	5.883E-07	3.824E-06	1600
114.0	1.6	2721	6.803E-07	4.422E-06	1600
114.0	3.1	3844	9.612E-07	6.288E-06	1600
114.0	6.2	4513	1.128E-06	7.335E-06	1600
114.0	9.3	7716	1.925E-06	1.254E-05	1600
114.0	12.4	11185	2.796E-06	1.818E-05	1600
114.0	15.5	16422	4.156E-06	2.701E-05	1600
114.0	18.6	19821	4.955E-06	3.221E-05	1600
114.0	21.7	25345	6.336E-06	4.119E-05	1600
114.0	24.8	27093	6.773E-06	4.403E-05	1600
114.0	31.0	29105	7.276E-06	4.730E-05	1600
114.0	37.2	36411	9.103E-06	5.917E-05	1600
114.0	43.4	37367	9.342E-06	6.072E-05	1600
114.0	49.6	18834	4.709E-06	3.061E-05	1600
114.0	55.8	14864	3.716E-06	2.415E-05	1600
114.0	62.0	11811	2.953E-06	1.919E-05	1600

TOYF DATA FOLLOW...

TFST 50 JUNE 10, 1964 021P TL 0200 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC U = 6.5 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	FU/G 1/SEC.M	DISTANCE METERS
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98.0	0.2	502	1.257E-07	8.168E-07	1600
98.0	0.4	423	1.059E-07	6.886E-07	1600
98.0	0.8	509	1.270E-07	8.278E-07	1600
98.0	1.5	286	7.166E-08	4.658E-07	1600
98.0	3.1	466	1.166E-07	7.577E-07	1600
98.0	6.2	252	6.306E-08	4.099E-07	1600
98.0	9.3	238	5.972E-08	3.882E-07	1600
98.0	12.4	279	6.975E-08	4.534E-07	1600
98.0	15.5	72	1.815E-08	1.180E-07	1600
98.0	18.6	17	4.300E-09	2.795E-08	1600
98.0	21.7	47	1.194E-08	7.764E-08	1600
98.0	24.8	24	6.042E-09	3.927E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	FU/G 1/SEC.M	DISTANCE METERS
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106.0	0.2	4749	1.187E-06	7.718E-06	1600
106.0	0.4	4310	1.083E-06	7.037E-06	1600
106.0	0.8	4158	1.040E-06	6.758E-06	1600
106.0	1.5	4424	1.106E-06	7.189E-06	1600
106.0	3.1	5115	1.279E-06	8.313E-06	1600
106.0	6.2	7047	1.762E-06	1.145E-05	1600
106.0	9.3	6090	1.523E-06	9.897E-06	1600
106.0	12.4	7466	1.867E-06	1.213E-05	1600
106.0	15.5	8192	2.048E-06	1.331E-05	1600
106.0	18.6	5788	1.447E-06	9.406E-06	1600
106.0	21.7	4701	1.175E-06	7.639E-06	1600
106.0	24.8	3274	8.187E-07	5.322E-06	1600
106.0	31.0	2110	5.274E-07	3.429E-06	1600
106.0	37.2	1436	3.591E-07	2.334E-06	1600
106.0	43.4	513	1.284E-07	8.306E-07	1600
106.0	49.6	123	3.097E-08	2.013E-07	1600
106.0	55.8	65	1.628E-08	1.058E-07	1600
106.0	62.0	40	1.017E-08	6.413E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	FU/G 1/SEC.M	DISTANCE METERS
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122.0	0.2	491	1.225E-07	7.985E-07	1600
122.0	0.4	1043	2.609E-07	1.696E-06	1600
122.0	0.8	583	1.440E-07	9.487E-07	1600
122.0	1.5	1016	2.542E-07	1.652E-06	1600
122.0	3.1	530	2.327E-07	1.512E-06	1600
122.0	6.2	1075	3.688E-07	2.397E-06	1600
122.0	9.3	2696	6.701E-07	4.382E-06	1600
122.0	12.4	2949	7.400E-07	4.810E-06	1600
122.0	15.5	4317	1.079E-06	7.015E-06	1600
122.0	18.6	6831	1.708E-06	1.110E-05	1600
122.0	21.7	7254	1.814E-06	1.179E-05	1600
122.0	24.8	8548	2.137E-06	1.389E-05	1600
122.0	31.0	11892	2.973E-06	1.933E-05	1600
122.0	37.2	13360	3.340E-06	2.171E-05	1600
122.0	43.4	17251	4.323E-06	2.810E-05	1600
122.0	49.6	9302	2.326E-06	1.512E-05	1600
122.0	55.8	5069	2.267E-06	1.474E-05	1600
122.0	62.0	9218	2.305E-06	1.498E-05	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	FU/G 1/SEC.M	DISTANCE METERS
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130.0	24.8	43	1.095E-08	7.118E-08	1600
130.0	37.2	52	1.322E-08	8.591E-08	1600
130.0	43.4	506	1.492E-07	9.696E-07	1600
130.0	49.6	355	8.855E-08	5.775E-07	1600
130.0	55.8	696	1.741E-07	1.131E-06	1600
130.0	62.0	1138	2.846E-07	1.850E-06	1600

TFST 50 JUNE 10, 1964 021P TL 0200 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER AT 1.5M U = 6.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/G SEC/CU.M	FU/G 1/SEC.M	DISTANCE METERS
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95.0	18	0.597E-04	2.982E-08	3200
104.0	16	4.078E-09	2.650E-08	3200
107.0	130	3.242E-08	2.120E-07	3200
108.0	692	1.710E-07	1.125E-06	3200
109.0	1431	3.578E-07	2.326E-06	3200
110.0	2846	7.121E-07	4.628E-06	3200
111.0	4341	1.095E-06	7.120E-06	3200
112.0	5942	1.486E-06	9.656E-06	3200
113.0	5338	1.335E-06	8.675E-06	3200
114.0	5858	1.465E-06	9.520E-06	3200
115.0	4132	1.033E-06	6.716E-06	3200
116.0	3086	7.717E-07	5.016E-06	3200
117.0	2236	5.592E-07	3.634E-06	3200
118.0	1488	3.621E-07	2.354E-06	3200
119.0	1872	4.682E-07	3.043E-06	3200
120.0	1276	3.191E-07	2.074E-06	3200
121.0	1209	3.023E-07	1.965E-06	3200
122.0	2153	5.383E-07	3.494E-06	3200
123.0	1145	2.865E-07	1.862E-06	3200
124.0	1030	2.577E-07	1.675E-06	3200
125.0	1314	3.285E-07	2.135E-06	3200
126.0	1517	3.795E-07	2.467E-06	3200
127.0	1113	2.783E-07	1.809E-06	3200
128.0	1087	2.719E-07	1.768E-06	3200
129.0	1012	2.531E-07	1.605E-06	3200
130.0	802	2.006E-07	1.304E-06	3200
131.0	957	2.393E-07	1.556E-06	3200
132.0	551	1.379E-07	8.962E-07	3200
133.0	478	1.195E-07	7.769E-07	3200
134.0	471	1.180E-07	7.670E-07	3200
135.0	374	9.353E-08	6.080E-07	3200
136.0	186	4.664E-08	3.031E-07	3200
137.0	129	3.237E-08	2.104E-07	3200
138.0	108	2.701E-08	1.756E-07	3200
139.0	80	2.013E-08	1.309E-07	3200
140.0	184	2.425E-08	1.706E-07	3200
141.0	87	2.192E-08	1.425E-07	3200
142.0	68	1.708E-08	1.110E-07	3200
143.0	58	1.453E-08	9.442E-08	3200
144.0	21	5.352E-09	3.479E-08	3200
145.0	84	2.115E-08	1.375E-07	3200
146.0	14	3.548E-09	2.319E-08	3200
147.0	25	6.371E-09	4.141E-08	3200
148.0	8	2.039E-09	1.325E-08	3200
149.0	26	5.047E-09	3.313E-08	3200
150.0	15	3.823E-09	2.485E-08	3200
161.0	11	2.803E-09	1.822E-08	3200

CROSS-ROAD INTEGRATED = 1.000E-04
SEC/SEC.M 5.205E-03
1/M

TOXER DATA FOLLOW....

TEST S4 JUNE 10, 1964 0218 TO 0244 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 3200M AFC U = 6.5 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	FL/G 1/SG,M	DISTANCE METERS
106.0	9.3	53	1.335E-08	8.677E-08	3200
106.0	12.4	74	1.869E-08	1.215E-07	3200
106.0	15.5	60	1.505E-08	9.782E-08	3200
106.0	18.6	50	1.355E-08	8.835E-08	3200
106.0	21.7	20	5.097E-09	3.313E-08	3200
106.0	24.8	9	2.399E-09	1.559E-08	3200
106.0	31.0	8	2.181E-09	1.418E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	FL/G 1/SG,M	DISTANCE METERS
114.0	0.2	4903	1.248E-06	8.114E-06	3200
114.0	0.4	4955	1.239E-06	8.053E-06	3200
114.0	0.8	4808	1.202E-06	7.814E-06	3200
114.0	1.5	5363	1.341E-06	8.715E-06	3200
114.0	3.1	5015	1.254E-06	8.150E-06	3200
114.0	6.2	7230	1.808E-06	1.175E-05	3200
114.0	9.3	7433	1.858E-06	1.208E-05	3200
114.0	12.4	9492	2.373E-06	1.542E-05	3200
114.0	15.5	10156	2.539E-06	1.650E-05	3200
114.0	18.6	8635	2.159E-06	1.403E-05	3200
114.0	21.7	9931	2.483E-06	1.614E-05	3200
114.0	24.8	9834	2.354E-06	1.533E-05	3200
114.0	31.0	6842	1.711E-06	1.112E-05	3200
114.0	37.2	6945	1.736E-06	1.129E-05	3200
114.0	43.4	4797	1.194E-06	7.796E-06	3200
114.0	49.6	2422	6.057E-07	3.937E-06	3200
114.0	55.8	1022	2.557E-07	1.662E-06	3200
114.0	62.0	823	2.059E-07	1.338E-06	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	FL/G 1/SG,M	DISTANCE METERS
122.0	0.2	212	5.301E-08	3.446E-07	3200
122.0	0.4	133	3.339E-08	2.170E-07	3200
122.0	0.8	166	3.670E-08	2.385E-07	3200
122.0	1.5	49	1.748E-08	1.136E-07	3200
122.0	3.1	1785	4.464E-07	2.901E-06	3200
122.0	6.2	1991	4.978E-07	3.236E-06	3200
122.0	9.3	2537	6.345E-07	4.124E-06	3200
122.0	12.4	3751	9.379E-07	6.096E-06	3200
122.0	15.5	4407	1.112E-06	7.227E-06	3200
122.0	18.6	5916	1.475E-06	9.614E-06	3200
122.0	21.7	8112	2.030E-06	1.319E-05	3200
122.0	24.8	7432	1.858E-06	1.208E-05	3200
122.0	31.0	8862	2.044E-06	1.343E-05	3200
122.0	37.2	7927	1.982E-06	1.288E-05	3200
122.0	43.4	10189	2.547E-06	1.656E-05	3200
122.0	49.6	4496	1.124E-06	7.307E-06	3200
122.0	55.8	6825	1.706E-06	1.109E-05	3200
122.0	62.0	9863	2.466E-06	1.603E-05	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	FL/G 1/SG,M	DISTANCE METERS
130.0	0.2	758	1.896E-07	1.232E-06	3200
130.0	0.4	900	2.250E-07	1.463E-06	3200
130.0	0.8	528	1.320E-07	8.581E-07	3200
130.0	1.5	1233	3.085E-07	2.006E-06	3200
130.0	3.1	917	2.294E-07	1.491E-06	3200
130.0	6.2	722	1.806E-07	1.174E-06	3200
130.0	9.3	829	2.073E-07	1.347E-06	3200
130.0	12.4	1079	2.699E-07	1.754E-06	3200
130.0	15.5	1199	3.000E-07	1.950E-06	3200
130.0	18.6	1795	4.488E-07	2.917E-06	3200
130.0	21.7	964	2.410E-07	1.567E-06	3200
130.0	24.8	1206	3.117E-07	2.026E-06	3200
130.0	31.0	1759	4.397E-07	2.858E-06	3200
130.0	37.2	2741	6.853E-07	4.454E-06	3200
130.0	43.4	2000	5.023E-07	3.265E-06	3200
130.0	49.6	2455	6.138E-07	3.989E-06	3200
130.0	55.8	1825	4.564E-07	2.967E-06	3200
130.0	62.0	2685	6.715E-07	4.364E-06	3200

TEST S4 JUNE 10, 1964 0218 TO 0244 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 12000M AFC SAMPLER HT 1.5M U = 6.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	FL/G 1/SG,M	DISTANCE METERS
3	90.0	14	3.511E-09	2.282E-08
4	90.0	5	1.270E-09	8.255E-09
4	90.0	2	7.471E-10	4.856E-09
2	90.0	9	2.391E-09	1.554E-08
4	90.0	5	1.270E-09	8.255E-09
6	100.0	4	1.121E-09	7.284E-09
3	101.6	5	1.345E-09	8.741E-09
5	105.0	7	1.868E-09	1.210E-08
6	106.0	3	8.218E-10	5.342E-09
4	108.0	32	8.143E-09	5.293E-08
3	109.0	15	3.810E-09	2.477E-08
5	110.0	13	3.437E-09	2.234E-08
5	112.0	11	2.839E-09	1.845E-08
4	113.0	72	1.823E-08	1.185E-07
4	114.0	196	4.908E-08	3.190E-07
4	115.0	199	4.998E-08	3.249E-07
4	116.0	210	5.259E-08	3.419E-07
4	117.0	196	4.916E-08	3.195E-07
4	118.0	317	7.934E-08	5.157E-07
4	119.0	283	7.097E-08	4.613E-07
4	120.0	373	9.346E-08	6.075E-07
9	121.0	74	1.868E-08	1.214E-07
5	122.0	389	9.742E-08	6.332E-07
4	123.0	407	1.118E-07	7.270E-07
4	124.0	431	1.079E-07	7.012E-07
7	125.0	261	6.544E-08	4.254E-07
6	126.0	481	1.204E-07	7.828E-07
9	127.0	143	3.593E-08	2.336E-07
7	128.0	170	4.258E-08	2.768E-07
3	129.0	599	1.499E-07	9.746E-07
3	130.0	276	6.503E-08	4.487E-07

CROSS-IND INTEGRATED = 2.909E-04 SEC/SG,M 1.950E-03 1/M

SERIES '64 EXPERIMENT: 5 (S-5)
 GROUND LEVEL AND TOWER SAMPLING ON THE 1600 AND 3200 M ARCS.
 GROUND LEVEL SAMPLING ONLY ON THE 7000 AND 12800 M ARCS.

TEST S4 JUNE 24, 1964 0154 TC 0226 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 1600M ARC SAMPLER HT 1.5M UC 6.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM=SEC/CM ² X10E+6	E/G SEC/CM ²	EL/G 1/SG, M	DISTANCE METERS
111.0	92	4.611E-08	2.766E-07	1600
112.0	159	7.992E-08	4.795E-07	1600
113.0	182	9.119E-08	5.471E-07	1600
114.0	215	1.076E-07	6.455E-07	1600
115.0	430	2.152E-07	1.291E-06	1600
116.0	313	1.568E-07	9.406E-07	1600
117.0	467	2.336E-07	1.402E-06	1600
118.0	473	2.367E-07	1.420E-06	1600
119.0	358	1.793E-07	1.076E-06	1600
120.0	434	2.172E-07	1.303E-06	1600
121.0	442	2.213E-07	1.328E-06	1600
122.0	334	1.670E-07	1.002E-06	1600
123.0	547	2.736E-07	1.641E-06	1600
124.0	622	3.115E-07	1.869E-06	1600
125.0	553	2.766E-07	1.660E-06	1600
126.0	598	2.992E-07	1.795E-06	1600
F 127.0	551	2.756E-07	1.654E-06	1600
128.0	487	2.439E-07	1.463E-06	1600
129.0	631	3.156E-07	1.893E-06	1600
130.0	202	1.014E-07	6.086E-07	1600
131.0	131	6.558E-08	3.935E-07	1600
132.0	206	1.035E-07	6.209E-07	1600
133.0	233	1.168E-07	7.008E-07	1600
134.0	250	1.250E-07	7.500E-07	1600
135.0	250	1.250E-07	7.500E-07	1600
136.0	133	6.660E-08	3.996E-07	1600
137.0	176	8.612E-08	5.287E-07	1600
138.0	143	7.172E-08	4.303E-07	1600
139.0	170	8.504E-08	5.103E-07	1600
140.0	168	8.402E-08	5.041E-07	1600
141.0	227	1.137E-07	6.824E-07	1600
142.0	299	1.496E-07	8.976E-07	1600
143.0	186	9.324E-08	5.594E-07	1600
144.0	317	1.586E-07	9.529E-07	1600
145.0	254	1.271E-07	7.623E-07	1600
146.0	389	1.947E-07	1.168E-06	1600
147.0	293	1.465E-07	8.791E-07	1600
148.0	475	2.377E-07	1.426E-06	1600
149.0	358	1.793E-07	1.076E-06	1600
150.0	422	2.111E-07	1.266E-06	1600
151.0	243	1.219E-07	7.316E-07	1600
152.0	573	2.869E-07	1.721E-06	1600
153.0	299	1.496E-07	8.976E-07	1600
154.0	264	1.322E-07	7.930E-07	1600

CROSSWIND INTEGRATED= 2.034E-04 1.220E-03
 SEC/SG, M 1/M

TOWER DATA FOLLOW....

TEST 55 JUNE 24, 1964 0154 TO 0226 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC U= 6.0 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SG,M	DISTANCE METERS
114.0	0.2	139	6.962E-08	4.177E-07	1600
114.0	0.4	11	5.673E-09	3.404E-08	1600
114.0	0.8	202	1.011E-07	6.065E-07	1600
114.0	1.5	110	5.530E-08	3.314E-07	1600
114.0	3.1	184	9.232E-08	5.539E-07	1600
114.0	6.2	272	1.363E-07	8.178E-07	1600
114.0	9.3	307	1.537E-07	9.223E-07	1600
T 114.0	12.4	310	1.550E-07	9.301E-07	1600
T 114.0	15.5	418	2.095E-07	1.257E-06	1600
T 114.0	18.6	430	2.151E-07	1.291E-06	1600
T 114.0	21.7	681	3.405E-07	2.043E-06	1600
T 114.0	24.8	544	2.721E-07	1.633E-06	1600
T 114.0	31.0	884	4.425E-07	2.655E-06	1600
T 114.0	37.2	1549	7.748E-07	4.649E-06	1600
T 114.0	43.4	1850	9.253E-07	5.552E-06	1600
T 114.0	49.6	2014	1.007E-06	6.044E-06	1600
T 114.0	55.8	1047	5.339E-07	3.203E-06	1600
T 114.0	62.0	2712	1.356E-06	8.137E-06	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SG,M	DISTANCE METERS
122.0	0.2	181	9.077E-08	5.446E-07	1600
122.0	0.4	245	1.227E-07	7.365E-07	1600
122.0	0.8	204	1.021E-07	6.127E-07	1600
122.0	1.5	236	1.180E-07	7.080E-07	1600
122.0	3.1	210	1.050E-07	6.323E-07	1600
122.0	6.2	306	1.533E-07	9.197E-07	1600
122.0	9.3	406	2.030E-07	1.220E-06	1600
122.0	12.4	310	1.555E-07	9.327E-07	1600
122.0	15.5	429	2.147E-07	1.288E-06	1600
122.0	18.6	519	2.896E-07	1.737E-06	1600
122.0	21.7	445	2.225E-07	1.335E-06	1600
122.0	24.8	512	2.563E-07	1.538E-06	1600
122.0	31.0	316	1.581E-07	9.483E-07	1600
122.0	37.2	391	1.957E-07	1.174E-06	1600
122.0	43.4	436	2.183E-07	1.310E-06	1600
122.0	49.6	400	2.004E-07	1.202E-06	1600
122.0	55.8	688	3.444E-07	2.067E-06	1600
122.0	62.0	783	3.919E-07	2.351E-06	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SG,M	DISTANCE METERS
130.0	0.2	107	5.360E-08	3.218E-07	1600
130.0	0.4	106	5.312E-08	3.187E-07	1600
130.0	0.8	102	5.106E-08	3.063E-07	1600
130.0	1.5	104	7.228E-08	4.337E-07	1600
130.0	3.1	219	1.097E-07	6.584E-07	1600
130.0	6.2	224	1.123E-07	6.741E-07	1600
130.0	9.3	375	1.877E-07	1.126E-06	1600
130.0	12.4	380	1.903E-07	1.142E-06	1600
130.0	15.5	352	1.764E-07	1.058E-06	1600
130.0	18.6	473	2.369E-07	1.421E-06	1600
130.0	21.7	426	2.131E-07	1.279E-06	1600
130.0	24.8	326	1.632E-07	9.792E-07	1600
130.0	31.0	542	2.713E-07	1.628E-06	1600
130.0	37.2	401	2.008E-07	1.205E-06	1600
130.0	43.4	441	2.205E-07	1.323E-06	1600
130.0	49.6	208	1.045E-07	6.267E-07	1600
130.0	55.8	338	1.693E-07	1.016E-06	1600

TEST 55 JUNE 24, 1964 0154 TO 0226 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SG,M	DISTANCE METERS
95.0	22	1.117E-08	6.699E-08	3200
115.0	13	6.796E-09	4.078E-08	3200
116.0	15	7.767E-09	4.660E-08	3200
117.0	19	9.709E-09	5.825E-08	3200
118.0	69	3.495E-08	2.097E-07	3200
119.0	33	1.650E-08	9.903E-08	3200
120.0	56	2.816E-08	1.689E-07	3200
121.0	6	3.398E-09	2.039E-08	3200
123.0	7	3.883E-09	2.330E-08	3200
124.0	42	2.136E-08	1.282E-07	3200
125.0	77	3.883E-08	2.330E-07	3200
126.0	94	4.709E-08	2.825E-07	3200
127.0	134	6.748E-08	4.049E-07	3200
128.0	155	7.767E-08	4.660E-07	3200
129.0	309	1.549E-07	9.291E-07	3200
130.0	362	1.811E-07	1.086E-06	3200
131.0	252	1.262E-07	7.573E-07	3200
132.0	342	1.714E-07	1.028E-06	3200
133.0	296	1.481E-07	8.883E-07	3200
134.0	419	2.097E-07	1.258E-06	3200
135.0	315	1.578E-07	9.466E-07	3200
136.0	455	2.277E-07	1.316E-06	3200
137.0	237	1.189E-07	7.136E-07	3200
138.0	144	7.233E-08	4.340E-07	3200
139.0	87	4.369E-08	2.621E-07	3200
140.0	87	4.369E-08	2.621E-07	3200
141.0	87	4.369E-08	2.621E-07	3200
142.0	46	2.330E-08	1.398E-07	3200
143.0	25	1.262E-08	7.573E-08	3200
144.0	39	1.990E-08	1.194E-07	3200
145.0	24	1.214E-08	7.282E-08	3200
146.0	31	1.553E-08	9.320E-08	3200
147.0	23	1.165E-08	6.990E-08	3200
148.0	25	1.262E-08	7.573E-08	3200
149.0	20	1.019E-08	6.117E-08	3200
150.0	3	1.942E-09	1.165E-08	3200
151.0	15	7.767E-09	4.660E-08	3200
152.0	22	1.117E-08	6.699E-08	3200
153.0	18	9.223E-09	5.534E-08	3200
154.0	20	1.019E-08	6.117E-08	3200
157.0	58	2.913E-08	1.748E-07	3200
158.0	8	4.369E-09	2.621E-08	3200
159.0	25	1.262E-08	7.573E-08	3200
160.0	6	3.398E-09	2.039E-08	3200
161.0	60	3.010E-08	1.806E-07	3200

CROSSWIND INTEGRATED= 1.459E-04 SEC/SG,M 8.754E-04 1/M

TONER DATA FOLLOW...

TEST S5 JUNE 24, 1964 0154 TO 0226 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
3200M ARC W= 6.0 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	FU/D 1/SG.M	DISTANCE METERS
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114.0	0.2	15	7.736E-09	4.642E-08	3200
114.0	55.8	7	3.755E-09	2.253E-08	3200
114.0	62.0	04	4.233E-08	2.540E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	FU/D 1/SG.M	DISTANCE METERS
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122.0	12.4	33	1.655E-08	9.928E-08	3200
122.0	15.5	67	3.353E-08	2.012E-07	3200
122.0	18.6	162	8.103E-08	4.888E-07	3200
122.0	21.7	249	1.250E-07	7.498E-07	3200
122.0	24.8	253	1.268E-07	7.605E-07	3200
122.0	31.0	646	3.232E-07	1.939E-06	3200
122.0	37.2	787	3.937E-07	2.362E-06	3200
122.0	43.4	1079	5.399E-07	3.239E-06	3200
122.0	49.6	556	2.782E-07	1.669E-06	3200
122.0	55.8	702	3.513E-07	2.108E-06	3200
122.0	62.0	512	2.560E-07	1.536E-06	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	FU/D 1/SG.M	DISTANCE METERS
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130.0	0.2	333	1.717E-07	1.030E-06	3200
130.0	0.4	332	1.661E-07	9.964E-07	3200
130.0	0.8	469	2.347E-07	1.408E-06	3200
130.0	1.5	360	1.825E-07	1.095E-06	3200
130.0	3.1	425	2.129E-07	1.278E-06	3200
130.0	6.2	632	3.161E-07	1.897E-06	3200
130.0	9.3	782	3.915E-07	2.349E-06	3200
130.0	12.4	585	2.926E-07	1.756E-06	3200
130.0	15.5	531	2.656E-07	1.594E-06	3200
130.0	18.6	699	3.497E-07	2.098E-06	3200
130.0	21.7	733	3.666E-07	2.200E-06	3200
130.0	24.8	518	2.591E-07	1.554E-06	3200
130.0	31.0	695	3.478E-07	2.087E-06	3200
130.0	37.2	446	2.234E-07	1.340E-06	3200
130.0	43.4	500	2.503E-07	1.502E-06	3200
130.0	49.6	512	2.560E-07	1.536E-06	3200
130.0	55.8	427	2.137E-07	1.282E-06	3200
130.0	62.0	340	1.905E-07	1.143E-06	3200

TEST S5 JUNE 24, 1964 0154 TO 0226 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
7000M APC SAMPLED HT 1.5M W= 6.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	FU/D 1/SG.M	DISTANCE METERS
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130.0	4	2.164E-09	1.298E-08	7000
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CROSSHAIR INTEGRATED= 0.000E+00 0.000E+00
SEC/SG.M 1/M

TEST S5 JUNE 24, 1964 0154 TO 0226 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
12000M ARC SAMPLED HT 1.5M W= 6.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	FU/D 1/SG.M	DISTANCE METERS
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91.0	24	1.225E-08	7.351E-08	12000
94.0	17	8.666E-09	5.200E-08	12000
97.0	9	4.632E-09	2.779E-08	12000
100.0	15	7.770E-09	4.662E-08	12000
101.0	18	9.413E-09	5.646E-08	12000
102.0	16	8.069E-09	4.841E-08	12000
103.0	5	2.839E-09	1.703E-08	12000
104.0	27	1.340E-08	8.337E-08	12000
105.0	16	8.069E-09	4.841E-08	12000
106.0	31	1.599E-08	9.593E-08	12000
107.0	127	6.360E-08	3.828E-07	12000
108.0	32	1.644E-08	9.862E-08	12000
109.0	9	4.632E-09	2.779E-08	12000
110.0	8	4.483E-09	2.690E-08	12000
111.0	11	5.528E-09	3.317E-08	12000
112.0	24	1.210E-08	7.262E-08	12000
113.0	6	3.287E-09	1.972E-08	12000
114.0	21	1.091E-08	6.544E-08	12000
115.0	2	1.494E-09	8.965E-09	12000
116.0	4	2.391E-09	1.434E-08	12000
117.0	13	6.574E-09	3.945E-08	12000
118.0	13	6.724E-09	4.034E-08	12000
119.0	17	8.517E-09	5.110E-08	12000
120.0	8	4.483E-09	2.690E-08	12000
121.0	25	1.255E-08	7.531E-08	12000
122.0	18	9.114E-09	5.469E-08	12000
123.0	17	8.965E-09	5.379E-08	12000
124.0	19	9.563E-09	5.738E-08	12000
125.0	5	2.988E-09	1.793E-08	12000
126.0	6	3.437E-09	2.062E-08	12000
127.0	5	2.988E-09	1.793E-08	12000
129.0	14	7.023E-09	4.214E-08	12000
130.0	16	8.218E-09	4.931E-08	12000

CROSSHAIR INTEGRATED= 1.679E+04 1.007E-03
SEC/SG.M 1/M

SERIES '64 EXPERIMENT: 6 (S-6)
GROUND LEVEL AND TOWER SAMPLING ON THE 1600 AND 3200 M ARCS.
GROUND LEVEL SAMPLING ONLY ON THE 7000 AND 12800 M ARCS.

TOWER DATA FOLLOWS....

TFST S6 JUNE 30, 1964 0252 TO 0312 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU,M X10E+6	F/U SEC/CU,M	F/U 1/SG,M	DISTANCE METERS
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131.0	556	1.931E-07	6.178E-07	1600
132.0	425	1.476E-07	4.723E-07	1600
133.0	4285	1.488E-06	4.761E-06	1600
134.0	4989	1.732E-06	5.544E-06	1600
135.0	10725	3.724E-06	1.192E-05	1600
136.0	11953	4.150E-06	1.328E-05	1600
137.0	15562	5.404E-06	1.729E-05	1600
138.0	12560	4.361E-06	1.396E-05	1600
139.0	9765	3.391E-06	1.085E-05	1600
140.0	8411	2.921E-06	9.346E-06	1600
141.0	16453	5.713E-06	1.828E-05	1600
142.0	8411	2.921E-06	9.346E-06	1600
143.0	8464	2.939E-06	9.405E-06	1600
144.0	11631	4.108E-06	1.315E-05	1600
145.0	12824	4.453E-06	1.425E-05	1600
146.0	12221	4.244E-06	1.358E-05	1600
147.0	11451	3.976E-06	1.272E-05	1600
148.0	6715	2.332E-06	7.461E-06	1600
149.0	3765	1.307E-06	4.184E-06	1600
150.0	1612	5.598E-07	1.791E-06	1600
151.0	1260	4.376E-07	1.400E-06	1600
152.0	2011	6.985E-07	2.235E-06	1600
153.0	948	3.295E-07	1.054E-06	1600
154.0	1255	4.361E-07	1.395E-06	1600

CROSSWIND INTEGRATED= 1.730E-03 SEC/SG,M
1/M

TFST S6 JUNE 30, 1964 0252 TO 0312 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC U= 3.2 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU,M X10E+6	F/U SEC/CU,M	F/U 1/SG,M	DISTANCE METERS
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130.0	0.2	72	2.505E-08	8.015E-08	1600
130.0	0.4	22	7.827E-09	2.505E-08	1600
130.0	1.5	72	7.963E-09	2.544E-08	1600
130.0	3.1	298	1.035E-07	3.312E-07	1600
130.0	6.2	619	2.150E-07	6.880E-07	1600
130.0	9.3	800	2.780E-07	8.897E-07	1600
130.0	12.4	6101	2.119E-06	6.780E-06	1600
130.0	15.5	4318	1.500E-06	4.799E-06	1600
130.0	18.6	5488	1.906E-06	6.098E-06	1600
130.0	21.7	5228	1.815E-06	5.810E-06	1600
130.0	24.8	1785	6.200E-07	1.984E-06	1600
130.0	31.0	216	7.500E-08	2.400E-07	1600
130.0	37.2	477	1.657E-07	5.304E-07	1600
130.0	43.4	157	5.455E-08	1.746E-07	1600
130.0	49.6	133	4.647E-08	1.487E-07	1600
130.0	55.8	42	1.476E-08	4.722E-08	1600
130.0	62.0	123	4.302E-08	1.377E-07	1600

TFST S6 JUNE 30, 1964 0252 TO 0312 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU,M X10E+6	F/U SEC/CU,M	F/U 1/SG,M	DISTANCE METERS
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135.0	244	8.495E-08	2.718E-07	3200
136.0	3304	1.148E-06	3.672E-06	3200
137.0	3434	1.193E-06	3.816E-06	3200
138.0	4496	1.561E-06	4.996E-06	3200
139.0	4179	1.451E-06	4.644E-06	3200
140.0	7704	2.675E-06	8.561E-06	3200
141.0	6556	2.277E-06	7.285E-06	3200
142.0	7027	2.440E-06	7.809E-06	3200
143.0	6904	2.397E-06	7.672E-06	3200
144.0	6942	2.410E-06	7.714E-06	3200
145.0	8318	2.888E-06	9.243E-06	3200
146.0	7156	2.485E-06	7.951E-06	3200
147.0	6207	2.155E-06	6.897E-06	3200
148.0	7399	2.569E-06	8.222E-06	3200
149.0	6427	2.232E-06	7.142E-06	3200
150.0	5814	2.019E-06	6.461E-06	3200
151.0	4647	1.614E-06	5.164E-06	3200
152.0	3057	1.062E-06	3.397E-06	3200
153.0	2129	7.394E-07	2.386E-06	3200
154.0	1179	4.095E-07	1.311E-06	3200
155.0	705	2.449E-07	7.838E-07	3200
156.0	221	7.681E-08	2.458E-07	3200
157.0	62	2.159E-08	6.909E-08	3200
158.0	40	1.416E-08	4.531E-08	3200

CROSSWIND INTEGRATED= 2.020E-03 SEC/SG,M
1/M

TOWER DATA FOLLOW...

TEST S6 JUNE 30, 1964 0252 TO 0312 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
3200M ARC U= 3.2 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ²	F/D SEC/CM ²	FU/D 1/SQ.M	DISTANCE METERS
X10E+6					

130.0	18.6	28	9.77E-09	3.12E-08	3200
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TEST S6 JUNE 30, 1964 0252 TO 0312 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
7000M ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ²	F/D SEC/CM ²	FU/D 1/SQ.M	DISTANCE METERS
X10E+6				

138.0	13	0.566E-09	1.461E-08	7000
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CROSSWIND INTEGRATED= 0.000E+00 0.000E+00
SEC/90.M 1/M

TEST S6 JUNE 30, 1964 0252 TO 0312 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
12800M ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ²	F/D SEC/CM ²	FU/D 1/SQ.M	DISTANCE METERS
X10E+6				

2	90.0	9	3.217E-09	1.029E-08	12800
3	95.0	5	1.971E-09	6.309E-09	12800
4	97.0	8	3.009E-09	9.629E-09	12800
4	103.0	9	3.424E-09	1.096E-08	12800
3	108.0	4	1.453E-09	4.649E-09	12800
4	111.0	5	1.764E-09	5.645E-09	12800
4	115.0	4	1.453E-09	4.649E-09	12800
4	116.0	6	2.179E-09	6.973E-09	12800
2	118.0	5	2.075E-09	6.641E-09	12800
1	121.0	5	1.971E-09	6.309E-09	12800
3	126.0	6	2.179E-09	6.973E-09	12800
1	129.0	12	4.254E-09	1.361E-08	12800
1	130.0	18	6.433E-09	2.059E-08	12800

CROSSWIND INTEGRATED= 5.179E-05 1.657E-04
SEC/90.M 1/M

SERIES '64 EXPERIMENT: 7 (S-7)
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS.

TEST S7 JULY 8, 1964 0354 TO 0424 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC SAMPLER HT 1.5M U= 8.1 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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108.0	35	6.177E-08	5.004E-07	200
110.0	78	1.378E-07	1.116E-06	200
112.0	38	6.653E-08	5.389E-07	200
116.0	97	1.711E-07	1.386E-06	200
118.0	38	6.653E-08	5.389E-07	200
120.0	3824	6.686E-06	5.416E-05	200
124.0	35	6.177E-08	5.004E-07	200
126.0	51	9.029E-08	7.313E-07	200
132.0	65	1.140E-07	9.238E-07	200
140.0	67	1.188E-07	9.623E-07	200

CROSSWIND INTEGRATED= 8.196E-05 6.639E-04
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST S7 JULY 8, 1964 0354 TO 0424 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
200M ARC U= 8.1 M/SEC AT 56M

AZIMUTH HEIGHT DEGREES METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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98.0	10.8	19	3.495E-08	2.831E-07	200
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AZIMUTH HEIGHT DEGREES METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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106.0	0.3	32	5.616E-08	4.549E-07	200
108.0	0.7	51	9.985E-08	7.278E-07	200
108.0	1.4	31	5.491E-08	4.448E-07	200
108.0	2.7	18	3.245E-08	2.628E-07	200
108.0	21.6	42	7.088E-08	6.066E-07	200

AZIMUTH HEIGHT DEGREES METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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114.0	0.3	324	5.672E-07	4.594E-06	200
114.0	0.7	141	2.471E-07	2.002E-06	200
114.0	1.4	38	6.740E-08	5.459E-07	200

AZIMUTH HEIGHT DEGREES METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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122.0	0.3	1175	2.055E-06	1.665E-05	200
122.0	0.7	263	4.605E-07	3.730E-06	200
122.0	1.4	25	4.493E-08	3.639E-07	200
122.0	2.7	28	4.992E-08	4.044E-07	200
122.0	4.1	19	3.495E-08	2.831E-07	200
122.0	5.8	18	3.245E-08	2.628E-07	200
122.0	6.8	799	1.398E-06	1.132E-05	200
122.0	18.9	285	4.992E-07	4.044E-06	200
122.0	21.6	68	1.198E-07	9.705E-07	200
122.0	24.3	250	4.372E-07	3.541E-06	200

AZIMUTH HEIGHT DEGREES METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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130.0	0.3	134	2.359E-07	1.911E-06	200
130.0	0.7	86	1.516E-07	1.228E-06	200

TEST S7 JULY 8, 1964 0354 TO 0424 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 8.1 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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100.0	36	6.435E-08	5.213E-07	800
102.0	165	2.896E-07	2.346E-06	800
104.0	63	1.103E-07	8.936E-07	800
108.0	55	9.653E-08	7.819E-07	800
110.0	47	8.274E-08	6.702E-07	800
112.0	99	1.747E-07	1.415E-06	800
118.0	126	2.206E-07	1.787E-06	800
120.0	304	5.332E-07	4.319E-06	800
130.0	215	3.769E-07	3.053E-06	800
134.0	302	5.286E-07	4.282E-06	800
138.0	89	1.563E-07	1.266E-06	800
146.0	36	6.435E-08	5.213E-07	800

CROSSWIND INTEGRATED= 1.725E-04 1.397E-03
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST S7 JULY 8, 1964 0354 TO 0424 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
800M ARC U= 8.1 M/SEC AT 56M

AZIMUTH HEIGHT DEGREES METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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98.0	14.7	19	3.340E-08	2.738E-07	800
98.0	16.8	27	4.829E-08	3.912E-07	800
98.0	21.0	42	7.485E-08	6.063E-07	800
98.0	25.2	36	6.454E-08	5.227E-07	800
98.0	29.4	27	4.755E-08	3.852E-07	800
98.0	33.6	113	1.987E-07	1.609E-06	800
98.0	37.8	40	7.133E-08	5.778E-07	800
98.0	42.0	19	3.397E-08	2.751E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
106.0	0.3	52	9.235E-08	7.480E-07	800
106.0	0.5	34	5.976E-08	4.840E-07	800
106.0	1.0	48	8.451E-08	6.845E-07	800
106.0	2.1	0	0.000E+00	0.000E+00	800
106.0	4.2	17	3.139E-08	2.543E-07	800
106.0	6.3	15	2.656E-08	2.151E-07	800
106.0	8.4	42	7.485E-08	6.063E-07	800
106.0	10.5	48	8.451E-08	6.845E-07	800
106.0	12.6	93	1.642E-07	1.330E-06	800
106.0	14.7	53	9.417E-08	7.628E-07	800
106.0	16.8	65	1.497E-07	1.213E-06	800
106.0	21.0	247	4.322E-07	3.501E-06	800
106.0	25.2	502	8.780E-07	7.112E-06	800
106.0	29.4	925	1.618E-06	1.311E-05	800
106.0	33.6	1614	2.823E-06	2.286E-05	800
106.0	37.8	2967	5.188E-06	4.203E-05	800
106.0	42.0	4206	7.354E-06	5.956E-05	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
114.0	0.3	124	2.173E-07	1.760E-06	800
114.0	0.5	20	3.622E-08	2.934E-07	800
114.0	1.0	17	3.139E-08	2.543E-07	800
114.0	16.8	44	7.727E-08	6.259E-07	800
114.0	21.0	89	1.569E-07	1.271E-06	800
114.0	25.2	127	2.140E-07	1.733E-06	800
114.0	29.4	745	1.303E-06	1.055E-05	800
114.0	33.6	1880	3.288E-06	2.663E-05	800
114.0	37.8	4863	8.503E-06	6.889E-05	800
114.0	42.0	7555	1.321E-05	1.070E-04	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
122.0	0.3	52	9.235E-08	7.480E-07	800
122.0	33.6	22	3.906E-08	3.164E-07	800
122.0	37.8	530	9.273E-07	7.511E-06	800
122.0	42.0	1815	3.174E-06	2.571E-05	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
130.0	0.5	789	1.380E-06	1.118E-05	800
130.0	1.0	263	4.612E-07	3.736E-06	800

TEST S7 JULY 8, 1964 0354 TO 0424 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 8.1 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
100.0	39	6.854E-08	5.551E-07	1600
101.0	84	1.474E-07	1.194E-06	1600
102.0	339	5.928E-07	4.802E-06	1600
103.0	82	1.439E-07	1.166E-06	1600
104.0	107	1.885E-07	1.527E-06	1600
105.0	201	3.530E-07	2.859E-06	1600
106.0	184	3.221E-07	2.609E-06	1600
107.0	225	3.941E-07	3.192E-06	1600
108.0	370	6.477E-07	5.246E-06	1600
109.0	192	3.358E-07	2.720E-06	1600
110.0	119	2.090E-07	1.693E-06	1600
111.0	17	3.084E-08	2.498E-07	1600
112.0	54	9.595E-08	7.772E-07	1600
113.0	70	1.234E-07	9.993E-07	1600
114.0	19	3.427E-08	2.776E-07	1600
115.0	62	1.097E-07	8.882E-07	1600
116.0	131	2.296E-07	1.860E-06	1600
117.0	60	1.062E-07	8.605E-07	1600
118.0	31	5.483E-08	4.441E-07	1600
119.0	49	8.567E-08	6.939E-07	1600

CROSSWIND INTEGRATED* 1.193E-04 9.666E-04
SEC/SQ.M 1/M

TOWER DATA FOLLOW... .

TEST S7 JULY 8, 1964 0354 TO 0424 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC U= 8.1 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
106.0	0.2	163	2.852E-07	2.310E-06	1600
106.0	0.4	163	2.852E-07	2.310E-06	1600
106.0	0.8	167	2.927E-07	2.371E-06	1600
106.0	1.5	91	1.600E-07	1.296E-06	1600
106.0	3.1	253	4.440E-07	3.596E-06	1600
106.0	6.2	250	4.380E-07	3.548E-06	1600
106.0	12.4	294	5.180E-07	4.163E-06	1600
106.0	15.5	695	1.216E-06	9.850E-06	1600
106.0	18.6	788	1.378E-06	1.116E-05	1600
106.0	21.7	1153	2.016E-06	1.633E-05	1600
106.0	24.8	932	1.631E-06	1.321E-05	1600
106.0	31.0	2255	3.944E-06	3.195E-05	1600
106.0	37.2	3523	6.161E-06	4.990E-05	1600
106.0	43.4	4578	8.905E-06	6.884E-05	1600
106.0	49.6	1505	2.632E-06	2.132E-05	1600
106.0	55.8	705	1.233E-06	9.984E-06	1600
106.0	62.0	279	4.890E-07	3.961E-06	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
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114.0	0.2	47	8.257E-08	6.688E-07	1600
114.0	0.4	21	3.753E-08	3.040E-07	1600
114.0	0.8	45	7.882E-08	6.380E-07	1600
114.0	1.5	19	3.400E-08	2.754E-07	1600
114.0	3.1	54	9.600E-08	7.776E-07	1600
114.0	6.2	115	2.020E-07	1.634E-06	1600
114.0	9.3	195	3.420E-07	2.770E-06	1600
114.0	12.4	356	6.240E-07	5.058E-06	1600
114.0	15.5	260	4.560E-07	3.694E-06	1600
114.0	18.6	1077	1.840E-06	1.524E-05	1600
114.0	21.7	800	1.556E-06	1.260E-05	1600
114.0	24.8	1669	2.919E-06	2.365E-05	1600
114.0	31.0	1702	2.977E-06	2.412E-05	1600
114.0	37.2	1064	1.861E-06	1.507E-05	1600
114.0	43.4	1493	2.611E-06	2.115E-05	1600
114.0	49.6	1176	2.057E-06	1.666E-05	1600
114.0	55.8	1968	3.442E-06	2.788E-05	1600
114.0	62.0	2871	5.020E-06	4.066E-05	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
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122.0	21.7	58	1.070E-07	8.262E-07	1600
122.0	24.8	163	2.962E-07	2.318E-06	1600
122.0	31.0	1541	2.606E-06	2.183E-05	1600
122.0	37.2	663	1.159E-06	9.392E-06	1600
122.0	43.4	318	5.575E-07	4.516E-06	1600
122.0	49.6	468	8.199E-07	6.641E-06	1600
122.0	55.8	95	1.671E-07	1.354E-06	1600
122.0	62.0	73	1.279E-07	1.036E-06	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
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130.0	0.2	32	5.630E-08	4.560E-07	1600
130.0	37.2	9	1.631E-08	1.321E-07	1600
130.0	43.4	182	3.188E-07	2.582E-06	1600
130.0	49.6	195	3.421E-07	2.771E-06	1600
130.0	55.8	110	1.929E-07	1.563E-06	1600
130.0	62.0	19	3.477E-08	2.816E-07	1600

TEST S7 JULY 8, 1964 0354 TO 0424 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 8.1 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
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103.0	15	2.716E-08	2.200E-07	3200
104.0	206	3.615E-07	2.928E-06	3200
105.0	445	7.791E-07	6.311E-06	3200
106.0	589	1.030E-06	8.345E-06	3200
107.0	601	1.052E-06	8.524E-06	3200
108.0	51	8.996E-08	7.287E-07	3200
109.0	521	9.115E-07	7.383E-06	3200
110.0	767	1.343E-06	1.087E-05	3200
111.0	914	1.599E-06	1.295E-05	3200
112.0	1165	2.037E-06	1.650E-05	3200
113.0	1186	2.074E-06	1.680E-05	3200
114.0	558	9.760E-07	7.905E-06	3200
115.0	311	5.448E-07	4.413E-06	3200
116.0	197	3.446E-07	2.791E-06	3200
117.0	237	4.158E-07	3.368E-06	3200
118.0	147	2.580E-07	2.090E-06	3200
119.0	70	1.239E-07	1.004E-06	3200
120.0	77	1.358E-07	1.100E-06	3200
121.0	233	4.074E-07	3.300E-06	3200
122.0	191	3.344E-07	2.706E-06	3200
123.0	299	5.228E-07	4.235E-06	3200
124.0	196	3.429E-07	2.777E-06	3200
125.0	53	9.335E-08	7.562E-07	3200
126.0	83	1.460E-07	1.182E-06	3200

CROSSHAIR INTEGRATED= 8.908E-04 7.216E-03
SEC/SC.M 1/M

TOWER DATA FOLLOWING...

TEST S7 JULY 8, 1964 0354 TO 0424 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
3200M ARC U= 8.1 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
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106.0	0.2	423	7.396E-07	5.991E-06	3200
106.0	0.4	426	7.450E-07	6.034E-06	3200
106.0	0.8	430	7.521E-07	6.097E-06	3200
106.0	1.5	421	7.369E-07	5.969E-06	3200
106.0	3.1	478	8.367E-07	6.777E-06	3200
106.0	6.2	341	5.974E-07	4.839E-06	3200
106.0	9.3	589	1.030E-06	8.342E-06	3200
106.0	12.4	627	1.096E-06	8.881E-06	3200
106.0	15.5	517	9.045E-07	7.326E-06	3200
106.0	18.6	542	9.093E-07	7.689E-06	3200
106.0	21.7	850	1.487E-06	1.204E-05	3200
106.0	24.8	500	8.745E-07	7.083E-06	3200
106.0	31.0	847	1.482E-06	1.201E-05	3200
106.0	37.2	610	1.067E-06	8.644E-06	3200
106.0	43.4	343	6.013E-07	4.871E-06	3200
106.0	49.6	57	1.003E-07	8.128E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
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114.0	0.2	395	6.915E-07	5.601E-06	3200
114.0	0.4	673	1.178E-06	9.542E-06	3200
114.0	0.8	582	1.018E-06	8.243E-06	3200
114.0	1.5	655	1.146E-06	9.285E-06	3200
114.0	3.1	542	9.480E-07	7.679E-06	3200
114.0	6.2	847	1.481E-06	1.200E-05	3200
114.0	9.3	549	9.608E-07	7.782E-06	3200
114.0	12.4	946	1.655E-06	1.341E-05	3200
114.0	15.5	1144	2.001E-06	1.621E-05	3200
114.0	18.6	1124	1.965E-06	1.592E-05	3200
114.0	21.7	2157	3.771E-06	3.055E-05	3200
114.0	24.8	1562	2.731E-06	2.212E-05	3200
114.0	31.0	1131	1.978E-06	1.602E-05	3200
114.0	37.2	1152	2.316E-06	1.833E-05	3200
114.0	43.4	1324	2.316E-06	1.876E-05	3200
114.0	49.6	1806	2.809E-06	2.275E-05	3200
114.0	55.8	1207	2.112E-06	1.710E-05	3200
114.0	62.0	1251	2.187E-06	1.772E-05	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
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122.0	0.2	184	3.226E-07	2.613E-06	3200
122.0	0.4	87	1.533E-07	1.241E-06	3200
122.0	0.8	153	2.691E-07	2.180E-06	3200
122.0	1.5	106	1.868E-07	1.513E-06	3200
122.0	3.1	119	2.985E-07	1.689E-06	3200
122.0	6.2	199	3.480E-07	2.819E-06	3200
122.0	9.3	313	5.476E-07	4.435E-06	3200
122.0	12.4	344	6.026E-07	4.881E-06	3200
122.0	15.5	305	5.335E-07	4.321E-06	3200
122.0	18.6	300	5.949E-07	4.819E-06	3200
122.0	21.7	657	1.150E-06	9.316E-06	3200
122.0	24.8	600	1.050E-06	8.507E-06	3200
122.0	31.0	190	3.335E-07	2.701E-06	3200
122.0	37.2	96	1.683E-07	1.363E-06	3200
122.0	43.4	174	3.049E-07	2.470E-06	3200
122.0	49.6	29	5.150E-08	4.172E-07	3200
122.0	55.8	73	1.279E-07	1.036E-06	3200
122.0	62.0	158	2.779E-07	2.251E-06	3200

SERIES '64 EXPERIMENT: 8 (5-8)
GROUND LEVEL AND TOWER SAMPLING ON THE 1600 AND 3200 M ARCS.
GROUND LEVEL SAMPLING ONLY ON THE 7000 AND 12800 M ARCS.

TEST 88 JULY 14, 1964 0144 TO 0244 PST ZINC SULFIDE RELEASE FROM ELEVATION OF 56M 1600M ARC SAMPLER HT 1.5M U= 5.6 M/SEC AT 56M						AZIMUTH HEIGHT EXPOSURE E/Q EU/Q DISTANCE DEGREES METERS GM-SEC/CM ³ SEC/CM ³ 1/50,M METERS X10E+6					
110.0	33	2.602E-08	1.479E-07	1600	114.0	18.6	28	2.233E-08	1.250E-07	1600	
111.0	54	4.227E-08	2.367E-07	1600	114.0	21.7	233	1.825E-07	1.022E-06	1600	
112.0	275	2.148E-07	1.203E-06	1600	114.0	24.8	191	1.495E-07	8.374E-07	1600	
114.0	160	1.250E-07	7.002E-07	1600	114.0	31.0	232	1.813E-07	1.016E-06	1600	
130.0	392	3.064E-07	1.716E-06	1600	114.0	37.2	491	3.839E-07	2.150E-06	1600	
131.0	948	7.414E-07	4.152E-06	1600	114.0	43.4	1459	1.140E-06	6.384E-06	1600	
132.0	1659	1.296E-06	7.258E-06	1600	114.0	49.6	1732	1.354E-06	7.582E-06	1600	
133.0	2179	1.703E-06	9.536E-06	1600	114.0	55.8	2274	1.777E-06	9.951E-06	1600	
134.0	2082	1.627E-06	9.112E-06	1600	114.0	62.0	3125	2.441E-06	1.367E-05	1600	
136.0	761	5.952E-07	3.333E-06	1600							
137.0	712	5.565E-07	3.116E-06	1600							
138.0	178	1.391E-07	7.791E-07	1600							
139.0	94	7.396E-08	4.142E-07	1600							
140.0	69	5.459E-08	3.057E-07	1600							
142.0	36	2.818E-08	1.578E-07	1600							
143.0	121	9.510E-08	5.325E-07	1600							
CROSSWIND INTEGRATED= 3.416E-04 SEC/50,M 1.913E-03 1/M											

TOWER DATA FOLLOWING...						AZIMUTH HEIGHT EXPOSURE E/Q EU/Q DISTANCE DEGREES METERS GM-SEC/CM ³ SEC/CM ³ 1/50,M METERS X10E+6					
122.0	0.2	54	4.227E-08	2.367E-07	1600						
122.0	3.1	45	3.546E-08	1.986E-07	1600						
122.0	15.5	55	4.334E-08	2.427E-07	1600						
122.0	18.6	72	5.647E-08	3.162E-07	1600						
122.0	21.7	57	4.465E-08	2.500E-07	1600						
122.0	24.8	74	5.833E-08	3.266E-07	1600						
122.0	31.0	73	5.727E-08	3.207E-07	1600						
122.0	37.2	160	1.315E-07	7.364E-07	1600						
122.0	43.4	337	2.641E-07	1.479E-06	1600						
122.0	49.6	715	5.592E-07	3.132E-06	1600						
122.0	55.8	1243	9.711E-07	5.438E-06	1600						
122.0	62.0	2895	2.254E-06	1.262E-05	1600						

TEST 88 JULY 14, 1964 0144 TO 0244 PST ZINC SULFIDE RELEASE FROM ELEVATION OF 56M 1600M ARC U= 5.6 M/SEC AT 56M						AZIMUTH HEIGHT EXPOSURE E/Q EU/Q DISTANCE DEGREES METERS GM-SEC/CM ³ SEC/CM ³ 1/50,M METERS X10E+6					
130.0	0.2	351	2.747E-07	1.538E-06	1600						
130.0	0.4	493	3.857E-07	2.160E-06	1600						
130.0	0.8	489	3.821E-07	2.140E-06	1600						
130.0	1.5	235	1.839E-07	1.030E-06	1600						
130.0	3.1	428	3.349E-07	1.875E-06	1600						
130.0	6.2	532	4.163E-07	2.331E-06	1600						
130.0	9.3	946	7.394E-07	4.140E-06	1600						
130.0	12.4	2156	1.685E-06	9.435E-06	1600						
130.0	15.5	2329	1.820E-06	1.019E-05	1600						
130.0	18.6	4422	3.455E-06	1.935E-05	1600						
130.0	21.7	6658	5.202E-06	2.913E-05	1600						
130.0	24.8	6552	5.119E-06	2.867E-05	1600						
130.0	31.0	7044	5.504E-06	3.082E-05	1600						
130.0	37.2	16445	1.245E-05	7.195E-05	1600						
130.0	43.4	36776	2.873E-05	1.609E-04	1600						
130.0	49.6	22076	1.725E-05	9.658E-05	1600						
130.0	55.8	13944	1.093E-05	6.118E-05	1600						
130.0	62.0	9649	7.539E-06	4.222E-05	1600						

TEST S8 JULY 14, 1964 0144 TO 0244 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 5.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	F/G SEC/CM	EU/G 1/SG,M	DISTANCE METERS
111.0	16	1.274E-08	7.136E-08	3200
113.0	16	1.274E-08	7.136E-08	3200
114.0	264	2.063E-07	1.155E-06	3200
115.0	218	1.704E-07	9.544E-07	3200
116.0	380	2.971E-07	1.664E-06	3200
117.0	170	1.330E-07	7.448E-07	3200
118.0	160	1.250E-07	7.002E-07	3200
119.0	120	9.398E-08	5.263E-07	3200
120.0	64	5.017E-08	2.810E-07	3200
121.0	28	2.230E-08	1.249E-07	3200
123.0	9	7.168E-09	4.014E-08	3200
124.0	21	1.672E-08	9.366E-08	3200
125.0	35	2.787E-08	1.561E-07	3200
126.0	107	8.362E-08	4.683E-07	3200
127.0	102	8.044E-08	4.505E-07	3200
128.0	161	1.258E-07	7.047E-07	3200
129.0	181	1.418E-07	7.939E-07	3200
130.0	41	3.265E-08	1.829E-07	3200
131.0	175	1.370E-07	7.671E-07	3200
132.0	504	3.942E-07	2.208E-06	3200
133.0	1689	1.320E-06	7.390E-06	3200
134.0	2592	2.025E-06	1.134E-05	3200
135.0	3283	2.565E-06	1.437E-05	3200
136.0	3140	2.454E-06	1.374E-05	3200
137.0	2276	1.778E-06	9.959E-06	3200
138.0	1820	1.422E-06	7.965E-06	3200
139.0	1169	9.135E-07	5.116E-06	3200
140.0	1210	9.454E-07	5.294E-06	3200
141.0	961	7.510E-07	4.206E-06	3200
142.0	661	5.169E-07	2.895E-06	3200
143.0	696	5.440E-07	3.046E-06	3200
144.0	280	2.190E-07	1.226E-06	3200
145.0	394	3.062E-07	1.726E-06	3200
146.0	341	2.668E-07	1.494E-06	3200
147.0	267	2.087E-07	1.169E-06	3200
148.0	265	2.071E-07	1.160E-06	3200
149.0	361	2.827E-07	1.583E-06	3200
150.0	153	1.203E-07	6.735E-07	3200
151.0	186	1.457E-07	8.162E-07	3200
152.0	130	1.019E-07	5.709E-07	3200
153.0	45	3.584E-08	2.007E-07	3200
154.0	86	6.770E-08	3.791E-07	3200
155.0	28	2.230E-08	1.249E-07	3200
156.0	24	1.911E-08	1.070E-07	3200
157.0	28	2.230E-08	1.249E-07	3200
158.0	13	1.035E-08	5.798E-08	3200

CROSSWIND INTEGRATED* 1.088E-03 6.092E-03
SEC/SG,M 1/M

TOWER DATA FOLLOWING...

TEST S8 JULY 14, 1964 0144 TO 0244 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
3200M ARC U= 5.6 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/G SEC/CM	EU/G 1/SG,M	DISTANCE METERS
114.0	0.2	322	2.517E-07	1.409E-06	3200
114.0	0.4	130	1.019E-07	5.709E-07	3200
114.0	0.8	134	1.051E-07	5.887E-07	3200
114.0	1.5	311	2.433E-07	1.362E-06	3200
114.0	3.1	575	4.496E-07	2.518E-06	3200
114.0	6.2	283	2.215E-07	1.241E-06	3200
114.0	9.3	328	2.563E-07	1.435E-06	3200
114.0	12.4	694	5.423E-07	3.037E-06	3200
114.0	15.5	845	6.762E-07	3.787E-06	3200
114.0	18.6	938	7.334E-07	4.107E-06	3200
114.0	21.7	1215	9.499E-07	5.320E-06	3200
114.0	24.8	1090	8.517E-07	4.770E-06	3200
114.0	31.0	1476	1.154E-06	6.460E-06	3200
114.0	37.2	2541	1.986E-06	1.112E-05	3200
114.0	43.4	3352	2.619E-06	1.467E-05	3200
114.0	49.6	3387	2.646E-06	1.482E-05	3200
114.0	55.8	1847	1.443E-06	8.083E-06	3200
114.0	62.0	1490	1.165E-06	6.522E-06	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/G SEC/CM	EU/G 1/SG,M	DISTANCE METERS
122.0	0.2	9	7.168E-09	4.014E-08	3200
122.0	0.4	13	1.035E-08	5.798E-08	3200
122.0	0.8	10	7.964E-09	4.460E-08	3200
122.0	1.5	13	1.086E-08	6.082E-08	3200
122.0	3.1	12	9.412E-09	5.271E-09	3200
122.0	6.2	22	1.738E-08	9.731E-09	3200
122.0	9.3	51	4.055E-08	2.271E-07	3200
122.0	12.4	31	2.462E-08	1.379E-07	3200
122.0	15.5	54	4.272E-08	2.392E-07	3200
122.0	18.6	54	4.272E-08	2.392E-07	3200
122.0	21.7	188	1.470E-07	8.231E-07	3200
122.0	24.8	178	1.395E-07	7.812E-07	3200
122.0	31.0	816	6.377E-07	3.571E-06	3200
122.0	37.2	1577	1.233E-06	6.903E-06	3200
122.0	43.4	3617	2.826E-06	1.583E-05	3200
122.0	49.6	1481	1.157E-06	6.481E-06	3200
122.0	55.8	2617	2.045E-06	1.145E-05	3200
122.0	62.0	2059	1.609E-06	9.012E-06	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/G SEC/CM	EU/G 1/SG,M	DISTANCE METERS
130.0	0.2	39	3.106E-08	1.739E-07	3200
130.0	0.4	43	3.425E-08	1.918E-07	3200
130.0	0.8	31	2.469E-08	1.383E-07	3200
130.0	1.5	46	3.620E-08	2.027E-07	3200
130.0	3.1	54	4.199E-08	2.352E-07	3200
130.0	6.2	115	9.050E-08	5.068E-07	3200
130.0	9.3	49	3.837E-08	2.149E-07	3200
130.0	12.4	75	5.937E-08	3.325E-07	3200
130.0	15.5	108	8.471E-08	4.744E-07	3200
130.0	18.6	187	1.463E-07	8.190E-07	3200
130.0	21.7	216	1.690E-07	9.488E-07	3200
130.0	24.8	248	2.332E-07	1.306E-06	3200
130.0	31.0	945	7.383E-07	4.135E-06	3200
130.0	37.2	2933	2.292E-06	1.264E-05	3200
130.0	43.4	4912	3.838E-06	2.149E-05	3200
130.0	49.6	3952	3.088E-06	1.729E-05	3200
130.0	55.8	1751	1.368E-06	7.662E-06	3200
130.0	62.0	1211	9.465E-07	5.300E-06	3200

TEST SR JULY 14, 1964 0144 TO 0244 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
7000M ARC SAMPLER HT 1.5M U= 5.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/R SEC/CU.M	EU/O 1/SG.M	DISTANCE METERS
106.0	5	4.202E-09	2.353E-08	7000
110.0	41	3.269E-08	1.830E-07	7000
114.0	24	1.891E-08	1.059E-07	7000
118.0	32	2.568E-08	1.436E-07	7000
122.0	418	3.273E-07	1.833E-06	7000
126.0	496	3.880E-07	2.173E-06	7000
130.0	307	2.405E-07	1.347E-06	7000
S 134.0	583	4.557E-07	2.552E-06	7000
138.0	1884	1.472E-06	8.244E-06	7000

CROSSWIND INTEGRATED= 2.650E-03 1.484E-02
SEC/SG.M 1/H

TEST SR JULY 14, 1964 0144 TO 0244 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
12800M ARC SAMPLER HT 1.5M U= 5.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/R SEC/CU.M	EU/O 1/SG.M	DISTANCE METERS
93.0	8	7.004E-09	3.922E-08	12800
94.0	3	3.035E-09	1.700E-08	12800
95.0	78	6.140E-08	3.436E-07	12800
96.0	76	5.953E-08	3.334E-07	12800
97.0	132	1.037E-07	5.605E-07	12800
98.0	126	9.852E-08	5.517E-07	12800
N 99.0	15	1.214E-08	6.798E-08	12800
100.0	60	4.716E-08	2.641E-07	12800
101.0	98	7.704E-08	4.314E-07	12800
102.0	180	1.412E-07	7.910E-07	12800
103.0	79	6.210E-08	3.478E-07	12800
104.0	36	2.825E-08	1.582E-07	12800
105.0	210	1.646E-07	9.217E-07	12800
106.0	86	6.770E-08	3.791E-07	12800
107.0	247	1.935E-07	1.084E-06	12800
108.0	81	6.397E-08	3.582E-07	12800
109.0	112	8.755E-08	4.903E-07	12800
110.0	92	7.191E-08	4.027E-07	12800
111.0	100	7.844E-08	4.393E-07	12800
112.0	68	5.370E-08	3.007E-07	12800
113.0	149	1.170E-07	6.550E-07	12800
114.0	105	8.241E-08	4.615E-07	12800
115.0	102	8.031E-08	4.497E-07	12800
116.0	112	8.755E-08	4.903E-07	12800
117.0	101	7.914E-08	4.432E-07	12800
118.0	64	5.019E-08	2.811E-07	12800
119.0	119	9.339E-08	5.230E-07	12800
120.0	73	5.743E-08	3.216E-07	12800
121.0	48	3.782E-08	2.118E-07	12800
122.0	55	4.366E-08	2.445E-07	12800
123.0	51	3.992E-08	2.236E-07	12800
125.0	12	9.572E-09	5.360E-08	12800
126.0	24	1.914E-08	1.072E-07	12800
127.0	2	2.335E-09	1.307E-08	12800
128.0	2	2.335E-09	1.307E-08	12800
129.0	20	1.564E-08	8.760E-08	12800
130.0	23	1.844E-08	1.033E-07	12800

CROSSWIND INTEGRATED= 1.047E-03 5.864E-03
SEC/SG.M 1/H

SERIES '64 EXPERIMENT: 9 (S-9)
GROUND LEVEL AND TOWER SAMPLING ON THE 1600 AND 3200 M ARCS.
GROUND LEVEL SAMPLING ONLY ON THE 7000 AND 12800 M ARCS.

TOOK DATA FOLLOW....

TEST S9 JULY 23, 1964 0145 TO 0245 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 56M

TEST S9 JULY 23, 1964 0145 TO 0245 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC U= 4.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/G SEC/CM	EU/G 1/SEC	DISTANCE METERS
75.0	60	3.519E-08	1.689E-07	1600
76.0	72	4.273E-08	2.051E-07	1600
77.0	266	1.559E-07	7.481E-07	1600
78.0	410	2.401E-07	1.152E-06	1600
79.0	178	1.043E-07	5.008E-07	1600
80.0	221	1.295E-07	6.214E-07	1600
81.0	343	2.011E-07	9.653E-07	1600
82.0	298	1.747E-07	8.386E-07	1600
83.0	435	2.552E-07	1.225E-06	1600
84.0	326	1.911E-07	9.170E-07	1600
85.0	405	2.376E-07	1.140E-06	1600
86.0	742	4.349E-07	2.087E-06	1600
87.0	850	4.977E-07	2.389E-06	1600
88.0	940	5.505E-07	2.643E-06	1600
89.0	1129	6.611E-07	3.173E-06	1600
90.0	1290	7.554E-07	3.626E-06	1600
91.0	1328	7.780E-07	3.735E-06	1600
92.0	1397	8.182E-07	3.928E-06	1600
93.0	1597	9.351E-07	4.489E-06	1600
94.0	1633	9.565E-07	4.591E-06	1600
95.0	1824	1.068E-06	5.128E-06	1600
96.0	2672	1.565E-06	7.511E-06	1600
97.0	2144	1.256E-06	6.027E-06	1600
98.0	2129	1.247E-06	5.985E-06	1600
99.0	2608	1.527E-06	7.330E-06	1600
100.0	2803	1.642E-06	7.879E-06	1600
101.0	3911	2.290E-06	1.099E-05	1600
102.0	3119	1.826E-06	8.766E-06	1600
103.0	3009	1.762E-06	8.459E-06	1600
104.0	2537	1.486E-06	7.131E-06	1600
105.0	1395	8.170E-07	3.922E-06	1600
106.0	1221	7.152E-07	3.433E-06	1600
107.0	538	3.155E-07	1.514E-06	1600
108.0	311	1.823E-07	8.748E-07	1600
109.0	105	6.159E-08	2.956E-07	1600
110.0	27	1.634E-08	7.643E-08	1600

CROSSWIND INTEGRATED= 7.241E-04 SEC/SEC
1/M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/G SEC/CM	EU/G 1/SEC	DISTANCE METERS
98.0	0.2	2526	1.479E-06	7.101E-06	1600
98.0	0.4	1595	9.344E-07	4.485E-06	1600
98.0	0.8	2195	1.285E-06	6.170E-06	1600
98.0	1.6	2113	1.238E-06	5.940E-06	1600
98.0	3.1	2822	1.653E-06	7.933E-06	1600
98.0	6.2	2905	1.701E-06	8.164E-06	1600
98.0	9.3	4302	2.519E-06	1.209E-05	1600
98.0	12.4	5658	3.313E-06	1.590E-05	1600
98.0	15.5	5725	3.352E-06	1.609E-05	1600
98.0	18.6	6204	3.633E-06	1.744E-05	1600
98.0	21.7	7080	4.145E-06	1.990E-05	1600
98.0	24.8	6754	3.955E-06	1.898E-05	1600
98.0	31.0	8127	4.759E-06	2.284E-05	1600
98.0	37.2	8524	4.991E-06	2.396E-05	1600
98.0	43.4	7314	4.283E-06	2.056E-05	1600
98.0	49.6	5777	3.382E-06	1.624E-05	1600
98.0	55.8	5866	3.435E-06	1.649E-05	1600
98.0	62.0	4330	2.536E-06	1.217E-05	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/G SEC/CM	EU/G 1/SEC	DISTANCE METERS
106.0	0.2	748	4.382E-07	2.103E-06	1600
106.0	0.4	671	3.933E-07	1.888E-06	1600
106.0	0.8	1054	6.176E-07	2.965E-06	1600
106.0	1.6	1030	6.035E-07	2.897E-06	1600
106.0	3.1	1113	6.516E-07	3.128E-06	1600
106.0	6.2	1285	7.524E-07	3.612E-06	1600
106.0	9.3	1793	1.050E-06	5.041E-06	1600
106.0	12.4	2773	1.390E-06	6.671E-06	1600
106.0	15.5	3563	2.086E-06	1.001E-05	1600
106.0	18.6	3221	1.886E-06	9.052E-06	1600
106.0	24.8	4030	2.360E-06	1.133E-05	1600
106.0	31.0	4618	2.704E-06	1.298E-05	1600
106.0	37.2	4279	2.505E-06	1.203E-05	1600
106.0	43.4	7294	4.271E-06	2.050E-05	1600
106.0	49.6	7167	4.196E-06	2.014E-05	1600
106.0	55.8	7667	4.489E-06	2.159E-05	1600
106.0	62.0	7876	4.494E-06	2.157E-05	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/G SEC/CM	EU/G 1/SEC	DISTANCE METERS
114.0	24.8	3A	2.259E-08	1.084E-07	1600
114.0	31.0	20	1.175E-08	5.638E-08	1600
114.0	37.2	29	1.717E-08	8.240E-08	1600
114.0	43.4	15	9.035E-09	4.337E-08	1600
114.0	49.6	13	7.615E-09	3.655E-08	1600
114.0	55.8	33	1.980E-08	9.503E-08	1600
114.0	62.0	28	1.675E-08	8.041E-08	1600

TEST 59 JULY 23, 1964 0145 TO 0245 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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79.0	43	2.566E-08	1.232E-07	3200	
80.0	47	2.805E-08	1.346E-07	3200	
81.0	70	4.118E-08	1.977E-07	3200	
82.0	137	8.057E-08	3.868E-07	3200	
83.0	193	1.134E-07	5.443E-07	3200	
84.0	234	1.373E-07	6.589E-07	3200	
85.0	430	2.519E-07	1.209E-06	3200	
86.0	663	3.885E-07	1.865E-06	3200	
87.0	724	4.244E-07	2.037E-06	3200	
88.0	753	4.411E-07	2.117E-06	3200	
89.0	1967	6.249E-07	3.000E-06	3200	
90.0	1548	9.066E-07	4.352E-06	3200	
91.0	1095	6.416E-07	3.080E-06	3200	
92.0	1699	9.949E-07	4.776E-06	3200	
93.0	1969	1.153E-06	5.535E-06	3200	
94.0	1701	9.961E-07	4.781E-06	3200	
95.0	1768	1.036E-06	4.971E-06	3200	
96.0	2209	1.293E-06	6.208E-06	3200	
97.0	1701	9.961E-07	4.781E-06	3200	
98.0	2543	1.489E-06	7.148E-06	3200	
99.0	2121	1.242E-06	5.962E-06	3200	
100.0	1747	1.023E-06	4.910E-06	3200	
101.0	2181	1.277E-06	6.131E-06	3200	
102.0	2697	1.579E-06	7.580E-06	3200	
103.0	1984	1.115E-06	5.352E-06	3200	
104.0	1967	1.152E-06	5.529E-06	3200	
105.0	1788	1.047E-06	5.025E-06	3200	
106.0	1294	7.580E-07	3.638E-06	3200	
107.0	1553	9.096E-07	4.366E-06	3200	
108.0	809	4.739E-07	2.275E-06	3200	
109.0	513	3.008E-07	1.444E-06	3200	
110.0	290	1.701E-07	8.165E-07	3200	
111.0	180	1.056E-07	5.071E-07	3200	
112.0	18	1.074E-08	5.157E-08	3200	

CROSSWIND INTEGRATED= 1.297E-03 6.227E-03
SEC/SQ.M 1/M

TOWER DATA FOLLOWS...

TEST 59 JULY 23, 1964 0145 TO 0245 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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98.0	0.2	1604	9.394E-07	4.509E-06	3200
98.0	0.4	1630	9.567E-07	4.592E-06	3200
98.0	0.8	2074	1.215E-06	5.830E-06	3200
98.0	1.5	1282	7.509E-07	3.605E-06	3200
98.0	3.1	2239	1.311E-06	6.295E-06	3200
98.0	6.2	2490	1.435E-06	6.886E-06	3200
98.0	9.3	2680	1.569E-06	7.532E-06	3200
98.0	12.4	3558	1.966E-06	9.438E-06	3200
98.0	15.5	3789	2.219E-06	1.065E-05	3200
98.0	18.6	3865	2.263E-06	1.086E-05	3200
98.0	21.7	4191	2.454E-06	1.178E-05	3200
98.0	24.8	4573	2.678E-06	1.285E-05	3200
98.0	31.0	4810	2.848E-06	1.327E-05	3200
98.0	37.2	3479	2.037E-06	9.779E-06	3200
98.0	43.4	3730	2.184E-06	1.048E-05	3200
98.0	49.6	2730	1.364E-06	6.508E-06	3200
98.0	55.8	2197	1.287E-06	6.176E-06	3200
98.0	62.0	2637	1.544E-06	7.411E-06	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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106.0	0.2	1182	6.923E-07	3.323E-06	3200
106.0	0.4	1220	7.144E-07	3.429E-06	3200
106.0	0.8	1171	6.854E-07	3.292E-06	3200
106.0	1.5	1563	9.153E-07	4.394E-06	3200
106.0	3.1	1613	9.446E-07	4.534E-06	3200
106.0	6.2	2353	1.378E-06	6.613E-06	3200
106.0	9.3	2151	1.260E-06	6.047E-06	3200
106.0	12.4	2969	1.212E-06	5.816E-06	3200
106.0	15.5	3268	1.914E-06	9.186E-06	3200
106.0	18.6	3032	1.774E-06	8.522E-06	3200
106.0	21.7	4267	2.499E-06	1.199E-05	3200
106.0	24.8	3195	1.871E-06	8.979E-06	3200
106.0	31.0	4918	2.880E-06	1.382E-05	3200
106.0	37.2	5847	3.201E-06	1.537E-05	3200
106.0	43.4	4762	2.788E-06	1.338E-05	3200
106.0	49.6	5922	3.467E-06	1.664E-05	3200
106.0	55.8	5162	3.023E-06	1.451E-05	3200
106.0	62.0	422	5.399E-07	2.592E-06	3200

TEST 59 JULY 23, 1964 0145 TO 0245 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
7000M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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98.0	878	5.144E-07	2.469E-06	7000
102.0	1838	1.076E-06	5.167E-06	7000
Z 106.0	305	1.788E-07	8.583E-07	7000
110.0	4	2.449E-09	1.176E-08	7000

CROSSWIND INTEGRATED= 1.583E-03 7.601E-03
SEC/SQ.M 1/M

TEST 59 JULY 23, 1964 0145 TO 0245 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
12800M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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97.0	4	2.024E-09	1.260E-08	12800
98.0	11	6.474E-09	3.107E-08	12800
99.0	31	1.820E-08	8.734E-08	12800
100.0	80	4.724E-08	2.268E-07	12800
101.0	241	1.414E-07	6.786E-07	12800
102.0	543	3.184E-07	1.528E-06	12800
103.0	580	3.400E-07	1.632E-06	12800
104.0	874	5.121E-07	2.458E-06	12800
105.0	874	5.123E-07	2.459E-06	12800
106.0	812	4.759E-07	2.284E-06	12800
107.0	1118	6.549E-07	3.143E-06	12800
108.0	1031	6.040E-07	2.899E-06	12800
109.0	352	2.061E-07	9.893E-07	12800
110.0	290	1.702E-07	8.171E-07	12800
111.0	108	6.369E-08	3.057E-07	12800
112.0	30	1.767E-08	8.482E-08	12800
113.0	5	3.324E-09	1.596E-08	12800
114.0	3	2.100E-09	1.008E-08	12800
116.0	9	5.774E-09	2.771E-08	12800

CROSSWIND INTEGRATED= 1.835E-03 8.807E-03
SEC/SQ.M 1/M

SERIES '64 EXPERIMENT: 10 (S-10)
GROUND LEVEL AND TOWER SAMPLING ON THE 1600 AND 3200 M ARCS.
GROUND LEVEL SAMPLING ONLY ON THE 7000 AND 12800 M ARCS.

TOWER DATA FOLLOW....

TEST S10 JULY 30, 1964 0127 TO 0227 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 6.3 M/SEC AT 56M

TEST S10 JULY 30, 1964 0127 TO 0227 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC U= 6.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
99.0	33	2.083E-08	1.312E-07	1600
101.0	62	3.920E-08	2.470E-07	1600
102.0	96	6.003E-08	3.782E-07	1600
103.0	466	2.916E-07	1.837E-06	1600
104.0	533	3.332E-07	2.099E-06	1600
105.0	878	5.488E-07	3.458E-06	1600
106.0	644	4.031E-07	2.539E-06	1600
107.0	450	2.818E-07	1.775E-06	1600
108.0	488	3.050E-07	1.922E-06	1600
109.0	158	9.923E-08	6.252E-07	1600
110.0	184	1.152E-07	7.255E-07	1600
111.0	356	2.230E-07	1.405E-06	1600
112.0	758	4.741E-07	2.987E-06	1600
113.0	1781	1.114E-06	7.016E-06	1600
114.0	2095	1.310E-06	8.251E-06	1600
115.0	3238	2.024E-06	1.275E-05	1600
116.0	3473	2.171E-06	1.368E-05	1600
117.0	3706	2.317E-06	1.459E-05	1600
118.0	199	1.250E-07	7.872E-07	1600
119.0	319	1.997E-07	1.258E-06	1600
120.0	92	5.758E-08	3.627E-07	1600
121.0	276	1.727E-07	1.088E-06	1600
122.0	123	7.718E-08	4.862E-07	1600
123.0	1036	6.481E-07	4.083E-06	1600
124.0	987	6.174E-07	3.890E-06	1600
125.0	903	5.648E-07	3.558E-06	1600
126.0	1138	7.118E-07	4.484E-06	1600
127.0	1287	8.049E-07	5.071E-06	1600
128.0	797	4.986E-07	3.141E-06	1600
129.0	954	5.966E-07	3.759E-06	1600
130.0	460	2.879E-07	1.814E-06	1600
131.0	229	1.433E-07	9.030E-07	1600
132.0	127	7.963E-08	5.017E-07	1600

CROSSWIND INTEGRATED= 4.958E-04 3.124E-03
SEC/SQ.M 1/M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
106.0	0.2	517	3.234E-07	2.037E-06	1600
106.0	0.4	792	4.951E-07	3.119E-06	1600
106.0	0.8	674	4.213E-07	2.654E-06	1600
106.0	1.5	391	2.445E-07	1.540E-06	1600
106.0	3.1	518	3.238E-07	2.040E-06	1600
106.0	6.2	697	4.362E-07	2.748E-06	1600
106.0	9.3	762	4.768E-07	3.004E-06	1600
106.0	12.4	947	5.919E-07	3.729E-06	1600
106.0	15.5	941	5.882E-07	3.705E-06	1600
106.0	18.6	962	6.014E-07	3.789E-06	1600
106.0	21.7	1265	7.912E-07	4.984E-06	1600
106.0	24.8	717	4.456E-07	2.807E-06	1600
106.0	31.0	906	5.668E-07	3.571E-06	1600
106.0	37.2	684	4.281E-07	2.697E-06	1600
106.0	43.4	462	2.893E-07	1.822E-06	1600
106.0	49.6	141	8.848E-08	5.578E-07	1600
106.0	55.8	200	1.251E-07	7.878E-07	1600
106.0	62.0	116	7.255E-08	4.571E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
114.0	0.2	2002	1.252E-06	7.887E-06	1600
114.0	0.4	2393	1.496E-06	9.425E-06	1600
114.0	0.8	2290	1.432E-06	9.019E-06	1600
114.0	1.5	2202	1.376E-06	8.672E-06	1600
114.0	3.1	2583	1.614E-06	1.017E-05	1600
114.0	6.2	2512	1.570E-06	9.891E-06	1600
114.0	9.3	2789	1.744E-06	1.099E-05	1600
114.0	12.4	3406	2.129E-06	1.341E-05	1600
114.0	15.5	2685	1.679E-06	1.058E-05	1600
114.0	18.6	3238	2.024E-06	1.275E-05	1600
114.0	21.7	3093	1.934E-06	1.218E-05	1600
114.0	24.8	3439	2.150E-06	1.354E-05	1600
114.0	31.0	3640	2.275E-06	1.433E-05	1600
114.0	37.2	5405	3.378E-06	2.128E-05	1600
114.0	43.4	6107	3.817E-06	2.405E-05	1600
114.0	49.6	4523	2.827E-06	1.781E-05	1600
114.0	55.8	5301	3.313E-06	2.087E-05	1600
114.0	62.0	5405	3.378E-06	2.128E-05	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10 ⁶ +6	E/O SEC/CM ²	EU/O 1/SG,M	DISTANCE METERS
122.0	0.2	64	4.025E-08	2.536E-07	1600
122.0	0.4	79	4.964E-08	3.128E-07	1600
122.0	0.8	214	1.342E-07	8.453E-07	1600
122.0	1.5	1093	6.835E-07	4.306E-06	1600
122.0	3.1	1247	7.798E-07	4.913E-06	1600
122.0	6.2	1708	1.068E-06	6.727E-06	1600
122.0	9.3	1723	1.077E-06	6.786E-06	1600
122.0	12.4	2010	1.257E-06	7.917E-06	1600
122.0	15.5	2548	1.591E-06	1.003E-05	1600
122.0	18.6	3101	1.938E-06	1.221E-05	1600
122.0	21.7	3339	2.087E-06	1.315E-05	1600
122.0	24.8	3091	1.932E-06	1.217E-05	1600
122.0	31.0	4038	2.524E-06	1.590E-05	1600
122.0	37.2	5141	3.213E-06	2.024E-05	1600
122.0	43.4	6631	4.145E-06	2.611E-05	1600
122.0	49.6	5744	3.590E-06	2.262E-05	1600
122.0	55.8	4331	2.707E-06	1.706E-05	1600
122.0	62.0	3738	2.336E-06	1.472E-05	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10 ⁶ +6	E/O SEC/CM ²	EU/O 1/SG,M	DISTANCE METERS
130.0	0.2	478	2.992E-07	1.885E-06	1600
130.0	0.4	281	1.752E-07	1.107E-06	1600
130.0	0.8	259	1.624E-07	1.023E-06	1600
130.0	1.5	382	2.389E-07	1.505E-06	1600
130.0	3.1	445	2.785E-07	1.755E-06	1600
130.0	6.2	418	2.615E-07	1.648E-06	1600
130.0	9.3	318	1.992E-07	1.255E-06	1600
130.0	12.4	868	5.429E-07	3.420E-06	1600
130.0	15.5	901	5.636E-07	3.551E-06	1600
130.0	18.6	1604	1.003E-06	6.317E-06	1600
130.0	21.7	2483	1.552E-06	9.778E-06	1600
130.0	24.8	1951	1.220E-06	7.685E-06	1600
130.0	31.0	2883	1.802E-06	1.135E-05	1600
130.0	37.2	3260	2.038E-06	1.284E-05	1600
130.0	43.4	5781	3.614E-06	2.277E-05	1600
130.0	49.6	4787	2.992E-06	1.885E-05	1600
130.0	55.8	3312	2.070E-06	1.304E-05	1600
130.0	62.0	3681	2.251E-06	1.418E-05	1600

TEST S10 JULY 30, 1964 0127 TO 0227 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 6.3 F/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10 ⁶ +6	E/O SEC/CM ²	EU/O 1/SG,M	DISTANCE METERS
79.0	26	1.638E-08	1.032E-07	3200
80.0	13	8.495E-09	5.352E-08	3200
81.0	10	6.675E-09	4.205E-08	3200
82.0	21	1.335E-08	8.410E-08	3200
83.0	23	1.456E-08	9.175E-08	3200
85.0	15	9.709E-09	6.117E-08	3200
86.0	20	1.274E-08	8.028E-08	3200
87.0	73	4.612E-08	2.905E-07	3200
90.0	28	1.760E-08	1.109E-07	3200
91.0	22	1.396E-08	8.792E-08	3200
92.0	9	6.068E-09	3.823E-08	3200
93.0	14	9.102E-09	5.734E-08	3200
94.0	205	1.286E-07	8.104E-07	3200
95.0	40	2.549E-08	1.606E-07	3200
96.0	29	1.820E-08	1.147E-07	3200
97.0	22	1.396E-08	8.792E-08	3200
98.0	66	4.187E-08	2.638E-07	3200
99.0	37	2.367E-08	1.491E-07	3200
101.0	24	1.517E-08	9.557E-08	3200
102.0	42	2.670E-08	1.682E-07	3200
103.0	72	4.551E-08	2.867E-07	3200
104.0	139	8.738E-08	5.505E-07	3200
105.0	238	1.493E-07	9.404E-07	3200
106.0	715	4.472E-07	2.817E-06	3200
107.0	301	1.887E-07	1.189E-06	3200
108.0	394	2.464E-07	1.552E-06	3200
109.0	498	3.113E-07	1.961E-06	3200
110.0	660	4.126E-07	2.600E-06	3200
111.0	390	2.439E-07	1.537E-06	3200
112.0	223	1.396E-07	8.792E-07	3200
113.0	196	1.226E-07	7.722E-07	3200
114.0	324	2.027E-07	1.277E-06	3200
115.0	366	2.288E-07	1.441E-06	3200
116.0	1476	9.229E-07	5.815E-06	3200
117.0	2249	1.406E-06	8.857E-06	3200
118.0	1926	1.204E-06	7.584E-06	3200
119.0	2906	1.817E-06	1.145E-05	3200
120.0	3253	2.033E-06	1.281E-05	3200
121.0	3156	1.973E-06	1.243E-05	3200
122.0	1859	1.162E-06	7.321E-06	3200
123.0	1418	8.865E-07	5.585E-06	3200
124.0	1996	1.248E-06	7.860E-06	3200
125.0	2598	1.624E-06	1.023E-05	3200
126.0	2515	1.572E-06	9.905E-06	3200
127.0	2084	1.303E-06	8.208E-06	3200
128.0	1927	1.204E-06	7.588E-06	3200
129.0	1724	1.078E-06	6.789E-06	3200
130.0	701	4.387E-07	2.764E-06	3200
131.0	235	1.475E-07	9.289E-07	3200
132.0	70	4.430E-08	2.791E-07	3200
133.0	12	7.888E-09	4.970E-08	3200
145.0	23	1.456E-08	9.175E-08	3200

CROSSWIND INTEGRATED = 1.31E-03 6.303E-03
SEC/SG,M 1/M

TOWER DATA FOLLOW....

TEST S10 JULY 30, 1964 0127 TO 0227 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
3200M ARC U= 6.3 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.2	192	1.204E-07	7.586E-07	3200
106.0	0.4	274	1.714E-07	1.080E-06	3200
106.0	0.8	294	1.854E-07	1.168E-06	3200
106.0	6.2	12	7.634E-09	4.809E-08	3200
106.0	9.3	217	1.358E-07	8.554E-07	3200
106.0	12.4	172	1.040E-07	6.802E-07	3200
106.0	15.5	144	9.051E-08	5.702E-07	3200
106.0	18.6	104	6.503E-08	4.122E-07	3200
106.0	21.7	105	6.598E-08	4.157E-07	3200
106.0	24.8	32	2.040E-08	1.285E-07	3200
106.0	31.0	18	1.159E-08	7.301E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.2	281	1.758E-07	1.108E-06	3200
114.0	0.4	443	2.772E-07	1.746E-06	3200
114.0	0.8	434	2.727E-07	1.718E-06	3200
114.0	1.5	301	1.847E-07	1.189E-06	3200
114.0	3.1	379	2.372E-07	1.494E-06	3200
114.0	6.2	434	2.715E-07	1.711E-06	3200
114.0	9.3	470	2.934E-07	1.852E-06	3200
114.0	12.4	444	3.113E-07	1.961E-06	3200
114.0	15.5	641	4.008E-07	2.525E-06	3200
114.0	18.6	408	3.806E-07	2.398E-06	3200
114.0	21.7	594	3.719E-07	2.343E-06	3200
114.0	24.8	746	4.668E-07	2.941E-06	3200
114.0	31.0	1030	6.439E-07	4.057E-06	3200
114.0	37.2	1395	8.720E-07	5.494E-06	3200
114.0	43.4	2340	1.476E-06	9.296E-06	3200
114.0	49.6	2851	1.532E-06	9.651E-06	3200
114.0	55.8	2094	1.309E-06	8.248E-06	3200
114.0	62.0	2210	1.381E-06	8.702E-06	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
122.0	0.2	1711	1.070E-06	6.739E-06	3200
122.0	0.4	1805	1.003E-06	6.322E-06	3200
122.0	0.8	1769	1.106E-06	6.968E-06	3200
122.0	1.5	1243	7.770E-07	4.895E-06	3200
122.0	3.1	1651	1.032E-06	6.503E-06	3200
122.0	6.2	2014	1.262E-06	7.949E-06	3200
122.0	9.3	2659	1.662E-06	1.047E-05	3200
122.0	12.4	2810	1.757E-06	1.107E-05	3200
122.0	15.5	2741	1.713E-06	1.079E-05	3200
122.0	18.6	3252	2.033E-06	1.281E-05	3200
122.0	21.7	2826	1.767E-06	1.113E-05	3200
122.0	24.8	3040	1.906E-06	1.197E-05	3200
122.0	31.0	2940	1.863E-06	1.173E-05	3200
122.0	37.2	3437	2.148E-06	1.353E-05	3200
122.0	43.4	3472	2.171E-06	1.367E-05	3200
122.0	49.6	1657	1.036E-06	6.526E-06	3200
122.0	55.8	3768	2.355E-06	1.484E-05	3200
122.0	62.0	4640	2.906E-06	1.831E-05	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
130.0	0.2	502	3.141E-07	1.979E-06	3200
130.0	0.4	554	3.466E-07	2.184E-06	3200
130.0	0.8	625	3.912E-07	2.465E-06	3200
130.0	1.5	612	3.828E-07	2.412E-06	3200
130.0	3.1	845	5.404E-07	3.408E-06	3200
130.0	6.2	848	5.551E-07	3.497E-06	3200
130.0	9.3	1026	6.418E-07	4.043E-06	3200
130.0	12.4	1914	1.199E-06	7.554E-06	3200
130.0	15.5	2141	1.339E-06	8.433E-06	3200
130.0	18.6	2632	1.646E-06	1.037E-05	3200
130.0	21.7	2741	1.738E-06	1.095E-05	3200
130.0	24.8	2941	1.851E-06	1.166E-05	3200
130.0	31.0	2440	1.800E-06	1.134E-05	3200
130.0	37.2	2589	1.618E-06	1.020E-05	3200
130.0	43.4	2438	1.524E-06	9.600E-06	3200
130.0	49.6	1279	7.998E-07	5.039E-06	3200
130.0	55.8	1039	6.495E-07	4.092E-06	3200
130.0	62.0	653	4.082E-07	2.572E-06	3200

TEST S10 JULY 30, 1964 0127 TO 0227 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
7000M ARC SAMPLER HT 1.5M U= 6.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
98.0	6	4.296E-09	2.706E-08	7000
106.0	8	5.043E-09	3.177E-08	7000
110.0	390	2.439E-07	1.537E-06	7000
114.0	855	5.347E-07	3.369E-06	7000
118.0	926	5.788E-07	3.646E-06	7000
122.0	1632	1.020E-06	6.428E-06	7000
126.0	1319	8.244E-07	5.194E-06	7000
130.0	3	2.054E-09	1.294E-08	7000

CROSSWIND INTEGRATED= 2.678E-03 SEC/90.M
1/M

TEST S10 JULY 30, 1964 0127 TO 0227 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
12800M ARC SAMPLER HT 1.5M U= 6.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
90.0	14	1.214E-08	7.648E-08	12800
95.0	15	9.712E-09	6.119E-08	12800
97.0	7	4.856E-09	3.059E-08	12800
101.0	5	3.549E-09	2.236E-08	12800
102.0	6	4.296E-09	2.706E-08	12800
103.0	19	1.233E-08	7.766E-08	12800
104.0	30	1.886E-08	1.188E-07	12800
105.0	39	2.465E-08	1.553E-07	12800
106.0	10	6.724E-09	4.236E-08	12800
107.0	42	2.671E-08	1.683E-07	12800
108.0	70	4.349E-08	2.765E-07	12800
109.0	138	8.666E-08	5.460E-07	12800
110.0	224	1.416E-07	8.919E-07	12800
111.0	87	5.491E-08	3.459E-07	12800
112.0	225	1.406E-07	8.860E-07	12800
113.0	249	1.560E-07	9.825E-07	12800
114.0	116	7.284E-08	4.589E-07	12800
115.0	263	1.647E-07	1.038E-06	12800
116.0	89	5.603E-08	3.530E-07	12800
117.0	262	1.638E-07	1.032E-06	12800
118.0	72	4.557E-08	2.871E-07	12800
119.0	60	3.791E-08	2.389E-07	12800
120.0	31	1.940E-08	1.247E-07	12800
121.0	24	1.550E-08	9.766E-08	12800
122.0	12	8.031E-09	5.060E-08	12800
123.0	26	1.662E-08	1.047E-07	12800
124.0	4	2.948E-09	1.883E-08	12800
126.0	3	2.241E-09	1.412E-08	12800
127.0	10	6.724E-09	4.236E-08	12800
129.0	6	4.296E-09	2.706E-08	12800

CROSSWIND INTEGRATED= 6.526E-04 SEC/90.M
1/M

SERIES '64 EXPERIMENT: 11 (S-11)
 GROUND LEVEL AND TOWER SAMPLING ON THE 1600 AND 3200 M ARCS.
 GROUND LEVEL SAMPLING ONLY ON THE 7000 AND 12800 M ARCS. A
 SIGNIFICANT PORTION OF THE PLUME NEVER PASSED OVER THE GRID.

TEST S11 AUGUST 6, 1964 0140 TO 0201 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 1600M ARC SAMPLER HT 1.5M U= 7.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SG.M	DISTANCE METERS
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142.0	154	1.829E-07	1.335E-06	1600
144.0	51	6.097E-08	4.451E-07	1600

CROSSWIND INTEGRATED= 1.362E-05 9.944E-05
 SEC/SG.M 1/M

TOWER DATA FOLLOW....

TEST S11 AUGUST 6, 1964 0140 TO 0201 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 1600M ARC U= 7.3 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SG.M	DISTANCE METERS
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130.0	0.2	180	2.134E-07	1.550E-06	1600
130.0	0.8	317	3.761E-07	2.786E-06	1600
130.0	6.2	382	4.532E-07	3.308E-06	1600
130.0	9.3	20	2.439E-08	1.780E-07	1600
130.0	12.4	190	2.256E-07	1.647E-06	1600

TEST S11 AUGUST 6, 1964 0140 TO 0201 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 3200M ARC SAMPLER HT 1.5M U= 7.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SG.M	DISTANCE METERS
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130.0	26	3.137E-08	2.290E-07	3200
132.0	15	1.810E-08	1.321E-07	3200
133.0	75	8.927E-08	6.517E-07	3200
134.0	41	4.946E-08	3.611E-07	3200
135.0	491	5.815E-07	4.245E-06	3200
136.0	42	5.067E-08	3.699E-07	3200
137.0	476	5.634E-07	4.113E-06	3200
138.0	358	4.247E-07	3.100E-06	3200
F 139.0	325	3.848E-07	2.809E-06	3200
140.0	91	1.086E-07	7.926E-07	3200
141.0	109	1.291E-07	9.423E-07	3200
142.0	212	2.509E-07	1.832E-06	3200
143.0	35	4.222E-08	3.082E-07	3200
144.0	38	4.584E-08	3.347E-07	3200
145.0	10	1.206E-08	8.807E-08	3200
146.0	27	3.257E-08	2.378E-07	3200
147.0	77	9.169E-08	6.693E-07	3200
148.0	180	2.135E-07	1.559E-06	3200
149.0	37	4.464E-08	3.259E-07	3200
150.0	31	3.740E-08	2.730E-07	3200
151.0	16	1.930E-08	1.409E-07	3200
152.0	73	8.666E-08	6.341E-07	3200
153.0	39	4.705E-08	3.435E-07	3200
154.0	110	1.303E-07	9.511E-07	3200
155.0	15	1.810E-08	1.321E-07	3200
F 156.0	147	1.749E-07	1.277E-06	3200
157.0	61	7.238E-08	5.284E-07	3200
158.0	31	3.740E-08	2.730E-07	3200
159.0	118	1.399E-07	1.022E-06	3200
160.0	101	1.206E-07	8.807E-07	3200
161.0	20	2.413E-08	1.761E-07	3200

CROSSWIND INTEGRATED= 2.297E-04 1.677E-03
 SEC/SG.M 1/M

TEST S11 AUGUST 6, 1964 0140 TO 0201 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 7000M ARC SAMPLER HT 1.5M U= 7.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SG.M	DISTANCE METERS
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138.0	79	9.372E-08	6.841E-07	7000
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CROSSWIND INTEGRATED= 0.000E+00 0.000E+00
 SEC/SG.M 1/M

TEST S11 AUGUST 6, 1964 0140 TO 0201 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
 12800M ARC SAMPLER HT 1.5M U= 7.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SG.M	DISTANCE METERS
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129.0	6	7.780E-09	5.680E-08	12800
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CROSSWIND INTEGRATED= 0.000E+00 0.000E+00
 SEC/SG.M 1/M

SERIES '64 EXPERIMENT: 12 (S-12)
GROUND LEVEL AND TOWER SAMPLING ON THE 1600 AND 3200 M ARCS.
GROUND LEVEL SAMPLING ONLY ON THE 7000 AND 12800 M ARCS.

TOWER DATA FOLLOW....

TEST S12 AUGUST 11, 1964 0138 TO 0235 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 7.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SG.M	DISTANCE METERS
101.0	92	4.662E-08	3.403E-07	1600
102.0	79	4.012E-08	2.924E-07	1600
103.0	75	3.795E-08	2.770E-07	1600
104.0	115	5.855E-08	4.274E-07	1600
105.0	249	1.258E-07	9.181E-07	1600
106.0	214	1.084E-07	7.915E-07	1600
107.0	281	1.420E-07	1.037E-06	1600
108.0	910	4.597E-07	3.356E-06	1600
109.0	798	4.033E-07	2.944E-06	1600
110.0	478	2.418E-07	1.765E-06	1600
111.0	869	4.391E-07	3.206E-06	1600
112.0	216	1.095E-07	7.994E-07	1600
113.0	152	7.698E-08	5.620E-07	1600
114.0	60	3.036E-08	2.216E-07	1600
115.0	62	3.144E-08	2.295E-07	1600

CROSS-INTG INTEGRATED= 6.567E-05 4.794E-04
SEC/SG.M 1/M

TEST S12 AUGUST 11, 1964 0138 TO 0235 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
1600M ARC U= 7.3 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SG.M	DISTANCE METERS
106.0	0.2	112	5.692E-08	4.155E-07	1600
106.0	0.4	114	5.806E-08	4.238E-07	1600
106.0	0.8	65	3.302E-08	2.410E-07	1600
106.0	1.5	159	8.065E-08	5.888E-07	1600
106.0	3.1	179	9.084E-08	6.631E-07	1600
106.0	6.2	186	9.424E-08	6.879E-07	1600
106.0	9.3	480	2.428E-07	1.772E-06	1600
106.0	12.4	463	2.343E-07	1.711E-06	1600
106.0	15.5	437	2.207E-07	1.611E-06	1600
106.0	18.6	865	4.372E-07	3.192E-06	1600
106.0	21.7	314	1.588E-07	1.159E-06	1600
106.0	24.8	360	1.821E-07	1.329E-06	1600
T 106.0	31.0	162	8.201E-08	5.987E-07	1600
106.0	37.2	90	4.581E-08	3.344E-07	1600
106.0	43.4	15	7.918E-09	5.780E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SG.M	DISTANCE METERS
114.0	0.2	47	2.391E-08	1.745E-07	1600
114.0	0.4	69	3.529E-08	2.576E-07	1600
114.0	0.8	67	3.415E-08	2.493E-07	1600
114.0	1.5	73	3.735E-08	2.727E-07	1600
114.0	3.1	84	4.245E-08	3.099E-07	1600
114.0	6.2	184	9.339E-08	6.817E-07	1600
114.0	9.3	284	1.435E-07	1.047E-06	1600
114.0	12.4	843	4.262E-07	3.111E-06	1600
114.0	15.5	1675	8.464E-07	6.179E-06	1600
114.0	18.6	2938	1.484E-06	1.083E-05	1600
114.0	21.7	4792	2.420E-06	1.767E-05	1600
114.0	24.8	6653	3.361E-06	2.453E-05	1600
114.0	31.0	11852	5.986E-06	4.370E-05	1600
114.0	37.2	23283	1.176E-05	8.584E-05	1600
114.0	43.4	43718	2.208E-05	1.612E-04	1600
114.0	49.6	23680	1.196E-05	8.731E-05	1600
114.0	55.8	25707	1.298E-05	9.478E-05	1600
114.0	62.0	18531	9.354E-06	6.832E-05	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SG.M	DISTANCE METERS
122.0	9.3	26	1.35PE-08	9.914E-08	1600
122.0	12.4	67	3.396E-08	2.479E-07	1600
122.0	15.5	53	2.717E-08	1.983E-07	1600
122.0	21.7	16	8.490E-09	6.197E-08	1600
122.0	24.8	12	6.221E-09	4.542E-08	1600
122.0	31.0	27	1.414E-08	1.032E-07	1600
122.0	37.2	19	9.615E-09	7.019E-08	1600
122.0	43.4	14	7.352E-09	5.367E-08	1600
122.0	49.6	8	4.234E-09	3.091E-08	1600
122.0	55.8	16	8.468E-09	6.182E-08	1600
122.0	62.0	13	6.928E-09	5.058E-08	1600

TEST S12 AUGUST 11, 1964 0130 TO 0235 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 7.3 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
99.0	58	2.935E-08	2.142E-07	3200	
100.0	17	8.753E-09	6.389E-08	3200	
101.0	43	2.214E-08	1.616E-07	3200	
102.0	130	6.590E-08	4.811E-07	3200	
103.0	376	1.900E-07	1.387E-06	3200	
104.0	506	2.559E-07	1.868E-06	3200	
105.0	728	3.681E-07	2.687E-06	3200	
106.0	1206	6.096E-07	4.450E-06	3200	
107.0	1552	7.841E-07	5.724E-06	3200	
108.0	1184	5.983E-07	4.367E-06	3200	
109.0	2801	1.415E-06	1.033E-05	3200	
110.0	3051	1.541E-06	1.125E-05	3200	
111.0	3697	1.867E-06	1.363E-05	3200	
112.0	2617	1.423E-06	1.039E-05	3200	
113.0	567	2.868E-07	2.093E-06	3200	
114.0	216	1.091E-07	7.968E-07	3200	
115.0	35	1.802E-08	1.315E-07	3200	
118.0	31	1.596E-08	1.165E-07	3200	
135.0	24	1.236E-08	9.020E-08	3200	

CROSSWIND INTEGRATED= 5.526E-04 SEC/SQ.M
4.034E-03 1/M

TOWER DATA FOLLOW...

TEST S12 AUGUST 11, 1964 0130 TO 0235 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
3200M ARC U= 7.3 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.2	918	4.639E-07	3.386E-06	3200
106.0	0.4	806	4.073E-07	2.973E-06	3200
106.0	0.8	992	5.015E-07	3.661E-06	3200
106.0	1.5	706	3.567E-07	2.604E-06	3200
106.0	3.1	866	4.376E-07	3.195E-06	3200
106.0	6.2	879	4.442E-07	3.243E-06	3200
106.0	9.3	522	2.640E-07	1.927E-06	3200
106.0	12.4	906	4.578E-07	3.342E-06	3200
106.0	15.5	595	3.010E-07	2.197E-06	3200
106.0	18.6	632	3.197E-07	2.334E-06	3200
106.0	21.7	588	2.972E-07	2.170E-06	3200
106.0	24.8	279	1.411E-07	1.030E-06	3200
106.0	31.0	182	9.225E-08	6.734E-07	3200
106.0	37.2	85	4.339E-08	3.167E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.2	199	1.009E-07	7.367E-07	3200
114.0	0.4	301	1.524E-07	1.113E-06	3200
114.0	0.8	176	8.907E-08	6.502E-07	3200
114.0	1.5	404	2.085E-07	1.493E-06	3200
114.0	3.1	354	1.793E-07	1.309E-06	3200
114.0	6.2	697	3.524E-07	2.573E-06	3200
114.0	9.3	1315	6.646E-07	4.852E-06	3200
114.0	12.4	2764	1.396E-06	1.019E-05	3200
114.0	15.5	3696	1.867E-06	1.363E-05	3200
114.0	18.6	4791	2.420E-06	1.766E-05	3200
114.0	21.7	4031	2.339E-06	1.708E-05	3200
114.0	24.8	7056	3.564E-06	2.602E-05	3200
114.0	31.0	9513	4.805E-06	3.507E-05	3200
114.0	37.2	18786	9.488E-06	6.926E-05	3200
114.0	43.4	20906	1.056E-05	7.708E-05	3200
114.0	49.6	12402	6.264E-06	4.573E-05	3200
114.0	55.8	2607	1.317E-06	9.613E-06	3200
114.0	62.0	1000	5.051E-07	3.607E-06	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
T 122.0	55.8	69	3.516E-08	2.567E-07	3200
T 122.0	62.0	85	4.316E-08	3.151E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
130.0	62.0	7	3.716E-09	2.713E-08	3200

TEST S12 AUGUST 11, 1964 0130 TO 0235 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
7000M ARC SAMPLER HT 1.5M U= 7.3 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
102.0	23	1.207E-08	8.814E-08	7000	
106.0	136	6.897E-08	5.035E-07	7000	
110.0	671	3.391E-07	2.476E-06	7000	
114.0	638	3.224E-07	2.353E-06	7000	
118.0	203	1.029E-07	7.514E-07	7000	
122.0	13	6.792E-09	4.958E-08	7000	
126.0	2	1.358E-09	9.916E-09	7000	
134.0	4	2.415E-09	1.763E-08	7000	
138.0	9	4.830E-09	3.526E-08	7000	

CROSSWIND INTEGRATED= 7.731E-04 SEC/SQ.M
5.644E-03 1/M

TEST S12 AUGUST 11, 1964 0130 TO 0235 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
12800M ARC SAMPLER HT 1.5M U= 7.3 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
110.0	8	4.377E-09	3.195E-08	12800	
112.0	26	1.343E-08	9.806E-08	12800	
113.0	149	7.531E-08	5.498E-07	12800	
114.0	181	9.161E-08	6.686E-07	12800	
115.0	114	5.780E-08	4.220E-07	12800	
116.0	482	2.439E-07	1.780E-06	12800	
117.0	80	4.045E-08	2.953E-07	12800	
118.0	596	3.014E-07	2.200E-06	12800	
119.0	133	6.746E-08	4.925E-07	12800	
120.0	363	1.837E-07	1.341E-06	12800	
121.0	228	1.155E-07	8.429E-07	12800	
122.0	49	2.490E-08	1.818E-07	12800	
123.0	18	9.508E-09	6.941E-08	12800	
130.0	18	9.357E-09	6.831E-08	12800	

CROSSWIND INTEGRATED= 5.837E-04 SEC/SQ.M
4.261E-03 1/M

SERIES '64 EXPERIMENT: 13 (S-13)
GROUND LEVEL AND TOWER SAMPLING ON THE 1600 AND 3200 M ARCS.
GROUND LEVEL SAMPLING ONLY ON THE 7000 AND 12800 M ARCS. A
SIGNIFICANT PORTION OF THE PLUME NEVER PASSED OVER THE GRID. THE
TRACER WAS NOT DETECTED ON THE 1600 M ARC.

TOWER DATA FOLLOWS...

TEST S13 AUGUST 21, 1964 011A TO 0230 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
1600M ARC U= 7.0 M/SEC AT 111M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
106.0	31.0	20	1.080E-08	7.283E-08	1600
106.0	37.2	58	2.926E-08	2.948E-07	1600
106.0	43.4	107	5.397E-08	3.778E-07	1600
106.0	49.6	62	3.124E-08	2.187E-07	1600
106.0	55.8	108	5.426E-08	3.798E-07	1600
106.0	62.0	101	5.097E-08	3.568E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
Q 114.0	37.2	40	4.032E-08	2.822E-07	1600
Q 114.0	43.4	52	2.601E-08	1.821E-07	1600
Q 114.0	49.6	234	1.173E-07	8.210E-07	1600
Q 114.0	55.8	611	3.058E-07	2.141E-06	1600
Q 114.0	62.0	2028	1.014E-06	7.101E-06	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
122.0	18.6	51	2.599E-08	1.819E-07	1600
122.0	21.7	64	3.226E-08	2.258E-07	1600
122.0	24.8	105	5.267E-08	3.687E-07	1600
122.0	31.0	28	1.431E-08	1.001E-07	1600
122.0	37.2	137	6.893E-08	4.825E-07	1600
122.0	43.4	183	9.169E-08	6.418E-07	1600
122.0	49.6	277	1.387E-07	9.706E-07	1600
122.0	55.8	493	2.466E-07	1.726E-06	1600
M 122.0	62.0	211	1.058E-07	7.404E-07	1600

TEST S13 AUGUST 21, 1964 0118 TO 0230 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
3200M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
71.0	25	1.274E-08	8.920E-08	3200
72.0	82	4.129E-08	2.890E-07	3200
73.0	15	7.646E-09	5.352E-08	3200
76.0	13	6.626E-09	4.638E-08	3200
77.0	67	3.364E-08	2.355E-07	3200
78.0	21	1.070E-08	7.493E-08	3200
79.0	11	5.607E-09	3.925E-08	3200
80.0	30	1.529E-08	1.070E-07	3200
81.0	38	1.937E-08	1.356E-07	3200
83.0	49	2.498E-08	1.748E-07	3200
84.0	10	5.097E-09	3.568E-08	3200
85.0	57	2.854E-08	1.998E-07	3200
86.0	28	1.427E-08	9.990E-08	3200
88.0	19	9.684E-09	6.779E-08	3200
89.0	12	6.117E-09	4.282E-08	3200
90.0	9	4.587E-09	3.211E-08	3200
92.0	22	1.121E-08	7.850E-08	3200
95.0	24	1.223E-08	8.563E-08	3200
98.0	66	3.313E-08	2.319E-07	3200
99.0	25	1.274E-08	8.920E-08	3200
100.0	41	2.090E-08	1.463E-07	3200
101.0	11	5.607E-09	3.925E-08	3200
102.0	62	3.109E-08	2.176E-07	3200
103.0	15	7.646E-09	5.352E-08	3200
104.0	28	1.427E-08	9.990E-08	3200
105.0	20	1.019E-08	7.136E-08	3200
106.0	19	9.684E-09	6.779E-08	3200
107.0	67	3.364E-08	2.355E-07	3200
108.0	38	1.937E-08	1.356E-07	3200
109.0	18	9.175E-09	6.422E-08	3200
110.0	47	2.396E-08	1.677E-07	3200
111.0	13	6.626E-09	4.638E-08	3200
112.0	19	9.684E-09	6.779E-08	3200
120.0	11	5.607E-09	3.925E-08	3200
121.0	8	4.078E-09	2.854E-08	3200
122.0	23	1.172E-08	8.206E-08	3200
123.0	32	1.631E-08	1.142E-07	3200
124.0	14	7.136E-09	4.995E-08	3200
125.0	110	5.505E-08	3.853E-07	3200
126.0	29	1.478E-08	1.035E-07	3200

CROSS-IND INTEGRATED= 4.528E-05 3.169E-04
SEC/80.M 1/M

TOWER DATA FOLLOW....

TEST S13 AUGUST 21, 1964 0118 TO 0230 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
3200N ARC U= 7.0 M/SEC AT111M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SG ₀ M	DISTANCE METERS
106.0	15.5	22	1.112E-08	7.785E-08	3200
106.0	18.6	69	3.475E-08	2.433E-07	3200
106.0	21.7	96	4.819E-08	3.373E-07	3200
106.0	24.8	34	1.746E-08	1.222E-07	3200
106.0	31.0	123	6.151E-08	4.305E-07	3200
106.0	37.2	84	4.206E-08	2.944E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SG ₀ M	DISTANCE METERS
114.0	12.4	20	1.019E-08	7.136E-08	3200
114.0	31.0	55	2.778E-08	1.944E-07	3200
114.0	37.2	145	7.262E-08	5.083E-07	3200
114.0	43.4	234	1.175E-07	8.222E-07	3200
114.0	49.6	494	2.471E-07	1.730E-06	3200
114.0	55.8	581	2.906E-07	2.034E-06	3200
114.0	62.0	1100	5.502E-07	3.851E-06	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SG ₀ M	DISTANCE METERS
122.0	0.2	141	7.085E-08	4.959E-07	3200
122.0	0.4	25	1.274E-08	8.920E-08	3200
122.0	0.8	14	7.136E-09	4.995E-08	3200
122.0	1.5	42	2.132E-08	1.492E-07	3200
122.0	3.1	31	1.575E-08	1.103E-07	3200
122.0	6.2	35	1.761E-08	1.233E-07	3200
122.0	9.3	29	1.483E-08	1.038E-07	3200
122.0	12.4	65	3.290E-08	2.303E-07	3200
122.0	15.5	79	3.985E-08	2.789E-07	3200
122.0	18.6	119	6.997E-08	4.898E-07	3200
122.0	21.7	87	4.356E-08	3.049E-07	3200
122.0	24.8	103	5.159E-08	3.611E-07	3200
122.0	31.0	153	7.698E-08	5.389E-07	3200
122.0	37.2	110	5.516E-08	3.861E-07	3200
122.0	43.4	286	1.433E-07	1.003E-06	3200
122.0	49.6	143	7.198E-08	5.036E-07	3200
122.0	55.8	311	1.560E-07	1.092E-06	3200
122.0	62.0	242	1.211E-07	8.476E-07	3200

TEST S13 AUGUST 21, 1964 0118 TO 0230 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
7000N ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SG ₀ M	DISTANCE METERS
2 98.0	5	2.540E-09	1.778E-08	7000
2 102.0	8	4.184E-09	2.929E-08	7000
2 106.0	2	1.345E-09	9.413E-09	7000
2 110.0	10	5.230E-09	3.661E-08	7000
1 114.0	37	1.883E-08	1.318E-07	7000
2 118.0	22	1.121E-08	7.844E-08	7000
1 122.0	57	2.869E-08	2.008E-07	7000
1 126.0	223	1.116E-07	7.813E-07	7000
1 130.0	201	1.006E-07	7.039E-07	7000
2 134.0	4	2.391E-09	1.673E-08	7000
2 138.0	0	0.000E+00	0.000E+00	7000

CROSSWIND INTEGRATED= 2.561E-04 1.793E-03
SEC/SG₀M 1/M

TEST S13 AUGUST 21, 1964 0118 TO 0230 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
12800N ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SG ₀ M	DISTANCE METERS
5 97.0	3	1.942E-09	1.360E-08	12800
2 98.0	2	1.195E-09	8.367E-09	12800
2 99.0	2	1.195E-09	8.367E-09	12800
2 100.0	12	6.126E-09	4.288E-08	12800
2 101.0	4	2.391E-09	1.673E-08	12800
6 102.0	4	2.492E-09	1.464E-08	12800
7 103.0	3	1.644E-09	1.151E-08	12800
6 104.0	2	1.494E-09	1.046E-08	12800
9 106.0	12	6.425E-09	4.497E-08	12800
3 107.0	9	4.931E-09	3.452E-08	12800
8 108.0	2	1.195E-09	8.367E-09	12800
5 109.0	2	1.195E-09	8.367E-09	12800
7 110.0	3	1.644E-09	1.151E-08	12800
7 111.0	12	6.276E-09	4.393E-08	12800
6 112.0	24	1.210E-08	8.472E-08	12800
6 113.0	10	5.230E-09	3.661E-08	12800
3 114.0	8	4.184E-09	2.929E-08	12800
2 116.0	2	1.345E-09	9.413E-09	12800
5 117.0	5	2.690E-09	1.883E-08	12800
2 118.0	13	6.724E-09	4.707E-08	12800
2 119.0	5	2.839E-09	1.987E-08	12800
1 121.0	3	1.793E-09	1.255E-08	12800
3 122.0	3	1.793E-09	1.255E-08	12800
1 123.0	5	2.888E-09	2.092E-08	12800
2 124.0	5	2.690E-09	1.883E-08	12800
4 126.0	3	1.942E-09	1.360E-08	12800
2 129.0	7	3.586E-09	2.510E-08	12800
2 130.0	8	4.483E-09	3.136E-08	12800

CROSSWIND INTEGRATED= 4.920E-05 3.444E-04
SEC/SG₀M 1/M

SERIES '64 EXPERIMENT: 14 (S-14)
GROUND LEVEL SAMPLING 1600-12800 M ARCS.

TEST S14 SEPTEMBER 1, 1964 0255 TO 0337 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
1600M ARC SAMPLER HT 1.5M U= 7.2 M/SEC AT111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	EU/D 1/SQ.M	DISTANCE METERS
147.0	119	9.956E-08	7.168E-07	1600
148.0	51	8.320E-08	3.111E-07	1600
149.0	100	1.503E-07	1.082E-06	1600
150.0	85	7.178E-08	5.139E-07	1600
151.0	47	3.945E-08	2.840E-07	1600
152.0	90	7.514E-08	5.410E-07	1600
153.0	29	2.442E-08	1.758E-07	1600

CROSSWIND INTEGRATED= 1.406E-05 1.012E-04
SEC/SQ.M 1/M

TEST S14 SEPTEMBER 1, 1964 0255 TO 0337 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
3200M ARC SAMPLER HT 1.5M U= 7.2 M/SEC AT111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	EU/D 1/SQ.M	DISTANCE METERS
115.0	29	2.464E-08	1.774E-07	3200
116.0	22	1.869E-08	1.346E-07	3200
139.0	40	3.398E-08	2.447E-07	3200
140.0	73	6.117E-08	4.404E-07	3200
141.0	54	4.502E-08	3.242E-07	3200
142.0	72	6.032E-08	4.343E-07	3200
143.0	65	5.437E-08	3.915E-07	3200
144.0	93	7.816E-08	5.627E-07	3200
145.0	37	3.143E-08	2.263E-07	3200
146.0	41	3.483E-08	2.508E-07	3200
147.0	14	1.189E-08	8.563E-08	3200
148.0	41	6.796E-08	4.893E-07	3200
149.0	183	1.529E-07	1.101E-06	3200
150.0	309	2.583E-07	1.859E-06	3200
151.0	142	1.189E-07	8.563E-07	3200
152.0	232	1.937E-07	1.395E-06	3200
153.0	163	1.359E-07	9.786E-07	3200
154.0	61	5.097E-08	3.670E-07	3200
155.0	29	2.464E-08	1.774E-07	3200

CROSSWIND INTEGRATED= 1.139E-04 8.192E-04
SEC/SQ.M 1/M

TEST S14 SEPTEMBER 1, 1964 0255 TO 0337 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
7000M ARC SAMPLER HT 1.5M U= 7.2 M/SEC AT111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	EU/D 1/SQ.M	DISTANCE METERS
122.0	12	1.021E-08	7.351E-08	7000
126.0	17	1.894E-08	1.076E-07	7000
130.0	16	1.395E-08	1.004E-07	7000
134.0	15	1.270E-08	9.144E-08	7000
138.0	62	5.180E-08	3.729E-07	7000

CROSSWIND INTEGRATED= 5.063E-05 3.645E-04
SEC/SQ.M 1/M

TEST S14 SEPTEMBER 1, 1964 0255 TO 0337 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
12800M ARC SAMPLER HT 1.5M U= 7.2 M/SEC AT111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	EU/D 1/SQ.M	DISTANCE METERS
109.0	3	2.719E-09	1.972E-08	12800
122.0	24	2.017E-08	1.452E-07	12800
123.0	21	1.818E-08	1.309E-07	12800
124.0	16	1.395E-08	1.004E-07	12800
125.0	11	9.214E-09	6.634E-08	12800
126.0	8	7.471E-09	5.379E-08	12800
127.0	19	1.195E-08	8.606E-08	12800
128.0	19	1.594E-08	1.148E-07	12800
129.0	29	2.440E-08	1.757E-07	12800
130.0	43	3.636E-08	2.618E-07	12800

CROSSWIND INTEGRATED= 7.021E-05 5.055E-04
SEC/SQ.M 1/M

SERIES '64 EXPERIMENT: 15 (S-15)
GROUND LEVEL AND TOWER SAMPLING ON THE 1600 AND 3200 M ARCS.
GROUND LEVEL SAMPLING ONLY ON THE 7000 AND 12800 M ARCS.

TOWER DATA FOLLOW....

TEST S15 SEPTEMBER 10, 1964 0246 TO 0332 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
1600M ARC SAMPLER #1 1.5M U= 3.7 M/SEC AT 111M

TEST S15 SEPTEMBER 10, 1964 0246 TO 0332 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
1600M ARC SAMPLER #1 1.5M U= 3.7 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
119.0	56	3.757E-08	1.390E-07	1600
120.0	42	2.855E-08	1.056E-07	1600
121.0	29	1.954E-08	7.228E-08	1600
122.0	45	3.006E-08	1.112E-07	1600
128.0	51	3.456E-08	1.279E-07	1600
129.0	29	1.954E-08	7.228E-08	1600
130.0	27	1.803E-08	6.672E-08	1600
131.0	20	1.352E-08	5.004E-08	1600
132.0	148	9.918E-08	3.670E-07	1600
133.0	24	1.954E-08	7.228E-08	1600
134.0	24	1.653E-08	6.116E-08	1600
136.0	58	3.907E-08	1.446E-07	1600
140.0	51	3.456E-08	1.279E-07	1600

CROSSWIND INTEGRATED= 2.031E-05 7.515E-05
SEC/SQ.M 1/M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	3.1	24	1.639E-08	6.066E-08	1600
114.0	6.2	43	2.869E-08	1.061E-07	1600
114.0	12.4	53	3.552E-08	1.314E-07	1600
114.0	15.5	20	1.366E-08	5.055E-08	1600
114.0	18.6	38	2.596E-08	9.604E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
122.0	0.2	27	5.861E-08	2.168E-07	1600
122.0	0.4	38	2.555E-08	9.452E-08	1600
122.0	3.1	51	3.415E-08	1.264E-07	1600
122.0	6.2	28	1.913E-08	7.077E-08	1600
122.0	9.3	122	8.197E-08	3.033E-07	1600
122.0	12.4	102	6.831E-08	2.527E-07	1600
122.0	15.5	49	3.279E-08	1.213E-07	1600
122.0	18.6	22	1.503E-08	5.560E-08	1600
122.0	21.7	63	4.235E-08	1.567E-07	1600
122.0	24.8	45	3.006E-08	1.112E-07	1600
122.0	31.0	17	1.176E-08	4.351E-08	1600
122.0	37.2	78	5.227E-08	1.934E-07	1600
122.0	43.4	62	4.182E-08	1.547E-07	1600
122.0	49.6	103	6.926E-08	2.563E-07	1600
122.0	55.8	107	7.187E-08	2.659E-07	1600
122.0	62.0	45	3.006E-08	1.112E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
130.0	0.2	33	2.254E-08	8.340E-08	1600
130.0	0.4	92	6.161E-08	2.280E-07	1600
130.0	0.8	27	1.803E-08	6.672E-08	1600
130.0	1.5	233	1.557E-07	5.762E-07	1600
130.0	3.1	30	2.049E-08	7.582E-08	1600
130.0	6.2	67	4.508E-08	1.668E-07	1600
130.0	9.3	57	3.825E-08	1.415E-07	1600
130.0	12.4	57	3.825E-08	1.415E-07	1600
130.0	15.5	75	5.055E-08	1.870E-07	1600
130.0	18.6	24	1.639E-08	6.066E-08	1600
130.0	21.7	131	8.743E-08	3.235E-07	1600
130.0	24.8	201	1.346E-07	4.980E-07	1600
130.0	31.0	252	1.686E-07	6.237E-07	1600
130.0	37.2	658	4.391E-07	1.625E-06	1600
130.0	43.4	552	3.685E-07	1.363E-06	1600
130.0	49.6	731	4.874E-07	1.803E-06	1600
130.0	55.8	680	4.534E-07	1.678E-06	1600
130.0	62.0	1374	9.160E-07	3.389E-06	1600

TEST S15 SEPTEMBER 10, 1964 0246 TO 0332 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
3200M ARC SAMPLER HT 1.5M L= 3.7 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
112.0	50	3.398E-08	1.257E-07	3200
113.0	16	1.087E-08	4.023E-08	3200
114.0	26	1.767E-08	6.538E-08	3200
115.0	14	9.515E-09	3.520E-08	3200
116.0	34	2.311E-08	8.550E-08	3200
117.0	16	1.087E-08	4.023E-08	3200
118.0	30	2.039E-08	7.544E-08	3200
119.0	33	2.243E-08	8.298E-08	3200
120.0	24	1.631E-08	6.035E-08	3200
121.0	65	4.350E-08	1.609E-07	3200
122.0	78	5.233E-08	1.936E-07	3200
123.0	60	4.010E-08	1.484E-07	3200
124.0	41	2.786E-08	1.031E-07	3200
125.0	65	4.350E-08	1.609E-07	3200
126.0	26	1.767E-08	6.538E-08	3200
127.0	23	1.563E-08	5.783E-08	3200
128.0	18	1.223E-08	4.526E-08	3200
129.0	32	2.175E-08	8.047E-08	3200
130.0	19	1.291E-08	4.778E-08	3200
131.0	20	1.359E-08	5.029E-08	3200
132.0	29	1.571E-08	7.292E-08	3200
133.0	23	1.563E-08	5.783E-08	3200
142.0	25	1.699E-08	6.286E-08	3200
147.0	25	1.699E-08	6.286E-08	3200
148.0	14	9.515E-09	3.520E-08	3200
149.0	42	2.854E-08	1.056E-07	3200
150.0	76	5.097E-08	1.886E-07	3200
151.0	70	4.689E-08	1.735E-07	3200
153.0	12	8.155E-09	3.017E-08	3200
154.0	11	7.476E-09	2.766E-08	3200
155.0	11	7.476E-09	2.766E-08	3200
157.0	23	1.563E-08	5.783E-08	3200
159.0	18	1.223E-08	4.526E-08	3200
160.0	20	1.359E-08	5.029E-08	3200

CROSSWIND INTEGRATED= 5.599E-05 2.071E-04
SEC/SQ.M 1/M

TOWER DATA FOLLOW...

TEST S15 SEPTEMBER 10, 1964 0246 TO 0332 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
3200M ARC L= 3.7 M/SEC AT 111M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
114.0	1.5	12	8.414E-09	3.113E-08	3200
114.0	3.1	21	1.424E-08	5.269E-08	3200
114.0	6.2	37	2.524E-08	9.340E-08	3200
114.0	9.3	26	1.748E-08	6.486E-08	3200
114.0	15.5	23	1.553E-08	5.748E-08	3200
114.0	18.6	29	1.902E-08	7.184E-08	3200
114.0	21.7	15	1.036E-08	3.932E-08	3200
114.0	24.8	22	1.489E-08	5.508E-08	3200
114.0	31.0	21	1.424E-08	5.269E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
122.0	0.4	36	2.487E-08	9.052E-08	3200
122.0	0.8	30	2.039E-08	7.544E-08	3200
122.0	1.5	25	1.683E-08	6.227E-08	3200
122.0	3.1	48	3.236E-08	1.197E-07	3200
122.0	6.2	52	3.495E-08	1.293E-07	3200
122.0	9.3	132	8.803E-08	3.257E-07	3200
122.0	12.4	139	9.320E-08	3.449E-07	3200
122.0	15.5	132	8.803E-08	3.257E-07	3200
122.0	18.6	100	6.731E-08	2.491E-07	3200
122.0	21.7	123	8.220E-08	3.041E-07	3200
122.0	24.8	116	7.767E-08	2.874E-07	3200
122.0	31.0	86	5.761E-08	2.131E-07	3200
122.0	37.2	89	5.955E-08	2.203E-07	3200
122.0	43.4	74	4.984E-08	1.844E-07	3200
122.0	49.6	53	3.560E-08	1.317E-07	3200
122.0	55.8	42	5.502E-08	2.036E-07	3200
7 122.0	62.0	64	4.272E-08	1.581E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
130.0	0.2	14	9.515E-09	3.520E-08	3200
130.0	0.4	11	7.476E-09	2.766E-08	3200
130.0	0.8	22	1.495E-08	5.532E-08	3200
130.0	1.5	13	9.061E-09	3.353E-08	3200
130.0	3.1	15	1.036E-08	3.832E-08	3200
130.0	6.2	54	3.625E-08	1.341E-07	3200
130.0	9.3	35	2.395E-08	8.861E-08	3200
130.0	12.4	42	2.848E-08	1.054E-07	3200
130.0	15.5	55	3.689E-08	1.365E-07	3200
130.0	18.6	139	9.320E-08	3.449E-07	3200
130.0	21.7	177	1.184E-07	4.383E-07	3200
130.0	24.8	238	1.592E-07	5.891E-07	3200
130.0	31.0	330	2.201E-07	8.142E-07	3200
130.0	37.2	295	1.968E-07	7.280E-07	3200
130.0	43.4	388	2.589E-07	9.579E-07	3200
130.0	49.6	402	2.686E-07	9.939E-07	3200
130.0	55.8	477	3.184E-07	1.178E-06	3200
130.0	62.0	270	1.806E-07	6.682E-07	3200

TEST S15 SEPTEMBER 10, 1964 0246 TO 0332 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
7000M ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SG.M	DISTANCE METERS
102.0	30	2.012E-08	7.445E-08	7000
106.0	14	9.363E-09	3.464E-08	7000
110.0	10	6.973E-09	2.580E-08	7000
114.0	7	4.981E-09	1.843E-08	7000
118.0	18	1.215E-08	4.496E-08	7000
122.0	40	2.729E-08	1.010E-07	7000
126.0	40	2.709E-08	1.002E-07	7000
130.0	25	1.713E-08	6.339E-08	7000
134.0	19	1.275E-08	4.718E-08	7000

CROSSWIND INTEGRATED= 1.232E-04 SEC/SG.M
4.558E-04 1/M

TEST S15 SEPTEMBER 10, 1964 0246 TO 0332 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
12800M ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SG.M	DISTANCE METERS
98.0	8	5.578E-09	2.064E-08	12800
99.0	5	3.984E-09	1.474E-08	12800
100.0	9	6.578E-09	2.433E-08	12800
101.0	3	2.391E-09	8.846E-09	12800
105.0	14	9.762E-09	3.612E-08	12800
106.0	5	3.586E-09	1.327E-08	12800
107.0	8	5.977E-09	2.211E-08	12800
108.0	46	3.128E-08	1.157E-07	12800
109.0	16	1.046E-08	4.054E-08	12800
110.0	6	4.582E-09	1.695E-08	12800
111.0	10	6.774E-09	2.506E-08	12800
112.0	20	1.335E-08	4.939E-08	12800
113.0	12	8.168E-09	3.022E-08	12800
114.0	2	1.793E-09	6.634E-09	12800
115.0	11	7.969E-09	2.949E-08	12800
116.0	47	4.522E-08	1.673E-07	12800
117.0	9	5.176E-09	2.285E-08	12800
118.0	31	2.072E-08	7.666E-08	12800
119.0	20	1.395E-08	5.160E-08	12800
120.0	40	2.690E-08	9.951E-08	12800
121.0	52	3.506E-08	1.297E-07	12800
122.0	17	1.155E-08	4.275E-08	12800
123.0	9	6.176E-09	2.285E-08	12800
124.0	20	1.375E-08	5.086E-08	12800
125.0	14	9.961E-09	3.686E-08	12800
126.0	10	6.774E-09	2.506E-08	12800
127.0	23	1.574E-08	5.823E-08	12800
128.0	25	1.673E-08	6.192E-08	12800
129.0	20	1.335E-08	4.939E-08	12800
130.0	30	2.012E-08	7.445E-08	12800
134.0	30	2.012E-08	7.445E-08	12800

CROSSWIND INTEGRATED= 9.006E-05 SEC/SG.M
3.332E-04 1/M

SECONDARY SERIES EXPERIMENT: Z-1
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS.

TEST Z1 APRIL 17, 1962 0949 TO 0528 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
82.0	45	2.850E-08	1.852E-07	200
84.0	856	5.397E-07	3.508E-06	200
86.0	4350	2.741E-06	1.782E-05	200
88.0	19100	1.204E-05	7.823E-05	200
90.0	39691	2.501E-05	1.626E-04	200
92.0	58786	3.704E-05	2.408E-04	200
94.0	70068	4.415E-05	2.870E-04	200
96.0	63727	4.016E-05	2.610E-04	200
98.0	23267	1.466E-05	9.530E-05	200
100.0	21184	1.335E-05	8.677E-05	200
102.0	17789	1.121E-05	7.286E-05	200
104.0	4836	3.048E-06	1.981E-05	200
106.0	1416	8.924E-07	5.801E-06	200
108.0	2204	1.389E-06	9.031E-06	200
110.0	7013	4.419E-06	2.873E-05	200
112.0	2125	1.339E-06	8.707E-06	200

CROSSWIND INTEGRATED= 1.480E+03 SEC/SQ.M
9.621E-03 1/M

TOWER DATA FOLLOW....

TEST Z1 APRIL 17, 1962 0949 TO 0528 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.3	24153	1.522E-05	9.893E-05	200
98.0	0.7	12659	7.977E-06	5.185E-05	200
98.0	1.4	13154	4.290E-06	5.388E-05	200
98.0	2.7	21550	1.358E-05	8.827E-05	200
98.0	4.1	22661	1.428E-05	9.282E-05	200
98.0	5.4	25113	1.582E-05	1.029E-04	200
98.0	6.8	39305	2.477E-05	1.610E-04	200
98.0	8.1	53855	3.394E-05	2.206E-04	200
98.0	9.4	34840	2.195E-05	1.427E-04	200
98.0	10.8	67100	4.228E-05	2.748E-04	200
98.0	13.5	89329	5.629E-05	3.659E-04	200
98.0	16.2	175634	1.107E-04	7.194E-04	200
98.0	18.9	185395	1.168E-04	7.593E-04	200
98.0	21.6	270483	1.704E-04	1.108E-03	200
98.0	24.3	189614	8.797E-05	5.718E-04	200
98.0	27.0	129902	8.185E-05	5.321E-04	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.3	1236	7.793E-07	5.065E-06	200
106.0	0.7	1503	9.473E-07	6.157E-06	200
106.0	1.4	817	5.153E-07	3.350E-06	200
106.0	2.7	618	3.900E-07	2.535E-06	200
106.0	4.1	2736	1.724E-06	1.121E-05	200
106.0	5.4	1671	1.050E-06	6.848E-06	200
106.0	6.8	904	5.700E-07	3.705E-06	200
106.0	8.1	3039	1.915E-06	1.245E-05	200
106.0	9.4	3601	2.269E-06	1.479E-05	200
106.0	10.8	5506	3.470E-06	2.255E-05	200
106.0	13.5	9690	6.106E-06	3.969E-05	200
106.0	16.2	8530	5.375E-06	3.494E-05	200
106.0	18.9	14111	8.892E-06	5.780E-05	200
106.0	21.6	5653	3.562E-06	2.316E-05	200
106.0	24.3	12558	7.913E-06	5.144E-05	200
106.0	27.0	3978	2.507E-06	1.629E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.3	106	6.680E-08	4.342E-07	200
114.0	1.4	17	1.094E-08	7.113E-08	200
114.0	2.7	303	1.710E-07	1.242E-06	200
114.0	4.1	162	1.025E-07	6.660E-07	200
114.0	5.4	961	6.058E-07	3.930E-06	200
114.0	6.8	281	1.771E-07	1.151E-06	200
114.0	8.1	423	2.466E-07	1.733E-06	200
114.0	9.4	896	5.651E-07	3.673E-06	200
114.0	10.8	577	3.641E-07	2.367E-06	200
114.0	13.5	915	5.770E-07	3.750E-06	200
114.0	16.2	1215	7.660E-07	4.979E-06	200
114.0	18.9	509	3.213E-07	2.089E-06	200
114.0	21.6	304	1.920E-07	1.248E-06	200
114.0	24.3	74	4.672E-08	3.037E-07	200
114.0	27.0	62	3.958E-08	2.573E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
122.0	0.3	221	1.397E-07	9.078E-07	200
122.0	0.7	321	2.024E-07	1.316E-06	200
122.0	1.4	50	3.183E-08	2.069E-07	200
122.0	4.1	25	1.592E-08	1.035E-07	200
122.0	10.8	26	1.691E-08	1.099E-07	200
122.0	13.5	17	1.094E-08	7.113E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
130.0	0.3	25	1.619E-08	1.053E-07	200
130.0	0.7	32	2.024E-08	1.316E-07	200
130.0	1.4	9	5.969E-09	3.880E-08	200
130.0	2.7	38	2.288E-08	1.487E-07	200
130.0	4.1	56	3.581E-08	2.328E-07	200
130.0	5.4	26	1.691E-08	1.099E-07	200
130.0	6.8	20	1.293E-08	8.406E-08	200

TEST Z1 APRIL 17, 1962 0449 TO 0528 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
ROOM ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
102.0	65	4.135E-08	2.688E-07	800
104.0	38	2.412E-08	1.568E-07	800
106.0	391	2.464E-07	1.602E-06	800
108.0	4495	2.833E-06	1.841E-05	800
110.0	17276	1.089E-05	7.076E-05	800
112.0	31221	1.967E-05	1.279E-04	800
114.0	41946	2.643E-05	1.718E-04	800
116.0	55517	3.498E-05	2.274E-04	800
118.0	41806	2.634E-05	1.712E-04	800
120.0	10746	6.771E-06	4.401E-05	800
122.0	866	5.462E-07	3.550E-06	800
124.0	103	6.547E-08	4.256E-07	800
130.0	24	1.551E-08	1.008E-07	800
132.0	82	5.169E-08	3.360E-07	800
138.0	1380	8.701E-07	5.656E-06	800
142.0	98	6.203E-08	4.032E-07	800
144.0	306	1.930E-07	1.254E-06	800
146.0	38	2.412E-08	1.568E-07	800
148.0	27	1.723E-08	1.120E-07	800
150.0	240	1.516E-07	9.856E-07	800
152.0	73	4.652E-08	3.024E-07	800
154.0	150	9.477E-08	6.160E-07	800
160.0	128	8.098E-08	5.264E-07	800

CROSSWIND INTEGRATED= 3.689E-03 SEC/SQ.M 2.398E-02 1/M

TIME DATA FOLLOW....

TEST Z1 APRIL 17, 1962 0449 TO 0528 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
ROOM ARC U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.3	276	1.743E-07	1.133E-06	800
106.0	0.5	130	8.224E-08	5.385E-07	800
106.0	1.0	90	5.678E-08	3.690E-07	800
106.0	2.1	154	9.719E-08	6.318E-07	800
106.0	4.2	171	1.078E-07	7.006E-07	800
106.0	6.3	271	1.713E-07	1.113E-06	800
106.0	8.4	195	1.232E-07	8.006E-07	800
106.0	10.5	214	1.366E-07	8.882E-07	800
106.0	12.6	404	2.550E-07	1.658E-06	800
106.0	14.7	342	2.156E-07	1.401E-06	800
106.0	16.8	229	1.443E-07	9.383E-07	800
106.0	21.0	138	8.757E-08	5.692E-07	800
106.0	25.2	64	4.080E-08	2.652E-07	800
106.0	29.4	68	4.331E-08	2.815E-07	800
T 106.0	33.6	9	6.277E-09	4.080E-08	800
106.0	37.8	73	2.134E-08	1.387E-07	800
106.0	42.0	12	8.160E-09	5.304E-08	800

AZIMUTH HEIGHT EXPOSURE F/Q EU/Q DISTANCE
DEGREES METERS GM-SEC/CM² SEC/CM² 1/SQ.M METERS

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.3	19535	1.231E-05	8.001E-05	800
114.0	0.5	11543	7.274E-06	4.728E-05	800
114.0	1.0	23100	1.456E-05	9.461E-05	800
114.0	2.1	26887	1.694E-05	1.101E-04	800
114.0	4.2	24500	1.859E-05	1.208E-04	800
114.0	6.3	21137	1.332E-05	8.658E-05	800
114.0	8.4	23636	1.489E-05	9.681E-05	800
114.0	10.5	21722	1.369E-05	8.897E-05	800
114.0	12.6	17338	2.353E-05	1.529E-04	800
114.0	14.7	26622	1.678E-05	1.090E-04	800
114.0	16.8	23335	1.470E-05	9.558E-05	800
114.0	21.0	30424	1.917E-05	1.246E-04	800
114.0	25.2	24222	1.526E-05	9.921E-05	800
114.0	29.4	9930	6.258E-06	4.067E-05	800
114.0	33.6	16079	1.013E-05	6.586E-05	800
114.0	37.8	16251	1.024E-05	6.656E-05	800
114.0	42.0	12610	7.946E-06	5.165E-05	800

AZIMUTH HEIGHT EXPOSURE F/Q EU/Q DISTANCE
DEGREES METERS GM-SEC/CM² SEC/CM² 1/SQ.M METERS

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
122.0	0.3	720	4.543E-07	2.953E-06	800
122.0	0.5	307	1.938E-07	1.260E-06	800
122.0	1.0	404	2.550E-07	1.658E-06	800
122.0	2.1	636	4.013E-07	2.608E-06	800
122.0	4.2	610	3.849E-07	2.502E-06	800
122.0	6.3	464	2.925E-07	1.902E-06	800
122.0	8.4	505	3.185E-07	2.070E-06	800
122.0	10.5	748	4.715E-07	3.065E-06	800
122.0	12.6	850	5.360E-07	3.484E-06	800
122.0	14.7	765	4.821E-07	3.134E-06	800
122.0	16.8	969	6.111E-07	3.972E-06	800
122.0	21.0	1166	7.352E-07	4.779E-06	800
122.0	25.2	786	4.959E-07	3.223E-06	800
122.0	29.4	910	5.737E-07	3.729E-06	800
122.0	33.6	394	2.486E-07	1.616E-06	800
122.0	37.8	311	1.965E-07	1.277E-06	800
122.0	42.0	280	1.770E-07	1.151E-06	800

TEST 71 APRIL 17, 1962 0449 TO 0528 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/O SEC/CM	FU/O 1/SQ.M	DISTANCE METERS
110.0	58	3.705E-08	2.408E-07	1600
111.0	321	2.026E-07	1.317E-06	1600
112.0	1315	8.288E-07	5.387E-06	1600
113.0	3359	2.117E-06	1.376E-05	1600
114.0	9730	6.131E-06	3.985E-05	1600
115.0	8516	5.367E-06	3.488E-05	1600
116.0	16439	1.036E-05	6.733E-05	1600
117.0	18003	1.134E-05	7.374E-05	1600
118.0	17903	1.128E-05	7.333E-05	1600
119.0	23262	1.466E-05	9.528E-05	1600
120.0	23776	1.498E-05	9.738E-05	1600
121.0	11756	7.408E-06	4.815E-05	1600
122.0	3794	2.391E-06	1.554E-05	1600
123.0	1001	6.311E-07	4.102E-06	1600
124.0	109	6.917E-08	4.496E-07	1600
125.0	15	9.881E-09	6.423E-08	1600
126.0	11	7.411E-09	4.817E-08	1600
127.0	29	1.853E-08	1.204E-07	1600
129.0	25	1.606E-08	1.044E-07	1600
130.0	15	9.881E-09	6.423E-08	1600

CROSSWIND INTEGRATED= 2.458E-03 1.595E-02
SEC/SQ.M 1/M

TRAFFIC DATA FOLLOWS...

TEST 71 APRIL 17, 1962 0449 TO 0528 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/O SEC/CM	FU/O 1/SQ.M	DISTANCE METERS
114.0	0.2	5669	3.535E-06	2.298E-05	1600
114.0	0.4	6118	3.855E-06	2.506E-05	1600
114.0	0.8	25	1.623E-08	1.055E-07	1600
114.0	1.5	4188	2.614E-06	1.699E-05	1600
114.0	3.1	4901	3.088E-06	2.007E-05	1600
114.0	6.2	3844	2.422E-06	1.575E-05	1600
114.0	9.3	676	4.264E-07	2.771E-06	1600
114.0	12.4	3294	2.076E-06	1.349E-05	1600
114.0	15.5	3078	1.940E-06	1.261E-05	1600
114.0	18.6	980	6.203E-07	4.032E-06	1600
114.0	21.7	343	2.167E-07	1.409E-06	1600
114.0	24.8	2104	1.327E-06	8.627E-06	1600
114.0	31.0	830	5.236E-07	3.403E-06	1600
114.0	37.2	708	4.466E-07	2.903E-06	1600
114.0	43.4	724	4.564E-07	2.967E-06	1600
114.0	49.6	158	9.992E-08	6.495E-07	1600
114.0	55.8	80	5.086E-08	3.302E-07	1600
114.0	62.0	8	5.383E-09	3.499E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/O SEC/CM	FU/O 1/SQ.M	DISTANCE METERS
122.0	0.2	863	5.438E-07	3.535E-06	1600
122.0	0.4	4362	2.749E-06	1.787E-05	1600
122.0	0.8	3965	2.499E-06	1.624E-05	1600
122.0	1.5	2524	1.591E-06	1.034E-05	1600
122.0	3.1	2947	1.791E-06	1.164E-05	1600
122.0	6.2	3669	2.312E-06	1.503E-05	1600
122.0	9.3	3481	2.194E-06	1.426E-05	1600
122.0	15.5	4675	2.946E-06	1.915E-05	1600
122.0	18.6	6007	3.786E-06	2.461E-05	1600
122.0	21.7	6213	3.915E-06	2.545E-05	1600
122.0	24.8	3561	2.283E-06	1.459E-05	1600
122.0	31.0	4006	2.524E-06	1.641E-05	1600
122.0	37.2	5211	2.926E-06	1.816E-05	1600
122.0	43.4	1770	1.115E-06	7.250E-06	1600
122.0	49.6	5	3.701E-09	2.406E-08	1600
122.0	55.8	403	2.794E-07	1.817E-06	1600
122.0	62.0	103	6.527E-08	4.242E-07	1600

TEST 71 APRIL 17, 1962 0449 TO 0528 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/O SEC/CM	FU/O 1/SQ.M	DISTANCE METERS
113.0	52	3.304E-08	2.147E-07	3200
114.0	242	1.529E-07	9.941E-07	3200
115.0	308	1.945E-07	1.265E-06	3200
116.0	506	3.193E-07	2.076E-06	3200
117.0	5686	3.583E-06	2.329E-05	3200
118.0	8657	5.455E-06	3.546E-05	3200
119.0	13036	8.215E-06	5.340E-05	3200
120.0	7213	4.545E-06	2.955E-05	3200
121.0	7222	4.551E-06	2.958E-05	3200
122.0	6181	3.895E-06	2.532E-05	3200
123.0	2756	1.737E-06	1.129E-05	3200
124.0	1067	6.729E-07	4.374E-06	3200
125.0	141	8.932E-08	5.806E-07	3200
126.0	24	1.529E-08	9.941E-08	3200

CROSSWIND INTEGRATED= 1.669E-03 1.215E-02
SEC/SQ.M 1/M

TRAFFIC DATA FOLLOWS...

TEST 71 APRIL 17, 1962 0449 TO 0528 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/O SEC/CM	FU/O 1/SQ.M	DISTANCE METERS
98.0	0.2	14	8.993E-09	5.845E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/O SEC/CM	FU/O 1/SQ.M	DISTANCE METERS
114.0	0.2	16	1.028E-08	6.680E-08	3200
114.0	0.4	222	1.400E-07	9.102E-07	3200
114.0	0.8	263	1.657E-07	1.077E-06	3200
114.0	1.5	162	1.027E-07	6.676E-07	3200
114.0	3.1	248	1.547E-07	1.019E-06	3200
114.0	6.2	163	1.032E-07	6.707E-07	3200
114.0	9.3	176	1.115E-07	7.245E-07	3200
114.0	12.4	175	1.105E-07	7.182E-07	3200
114.0	15.5	207	1.309E-07	8.511E-07	3200
114.0	18.6	134	8.469E-08	5.505E-07	3200
114.0	21.7	132	8.372E-08	5.442E-07	3200
114.0	24.8	109	6.884E-08	4.475E-07	3200
114.0	31.0	30	1.934E-08	1.257E-07	3200
114.0	37.2	48	3.055E-08	1.986E-07	3200
114.0	43.4	14	9.282E-09	6.034E-08	3200
114.0	49.6	3	1.931E-09	1.255E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/O SEC/CM	FU/O 1/SQ.M	DISTANCE METERS
122.0	0.2	3759	2.369E-06	1.500E-05	3200
122.0	0.4	3067	1.933E-06	1.256E-05	3200
122.0	0.8	3057	1.926E-06	1.252E-05	3200
122.0	1.5	2397	1.511E-06	9.820E-06	3200
122.0	3.1	20	1.266E-08	8.226E-08	3200
122.0	6.2	1996	1.258E-06	8.178E-06	3200
122.0	9.3	4373	2.756E-06	1.791E-05	3200
122.0	12.4	4342	2.736E-06	1.779E-05	3200
122.0	15.5	2771	1.746E-06	1.135E-05	3200
122.0	18.6	3705	2.335E-06	1.518E-05	3200
122.0	21.7	4593	2.895E-06	1.882E-05	3200
122.0	24.8	3947	2.487E-06	1.617E-05	3200
122.0	31.0	5985	3.772E-06	2.452E-05	3200
122.0	37.2	504	3.179E-07	2.086E-06	3200
122.0	43.4	1041	6.563E-07	4.266E-06	3200
122.0	49.6	1552	9.783E-07	6.359E-06	3200
122.0	55.8	382	2.400E-07	1.585E-06	3200
122.0	62.0	62	3.944E-08	2.564E-07	3200

SECONDARY SERIES EXPERIMENT: MT-2
ZINC SULFIDE AND FLUOROSCEIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT MT-2. ZINC SULFIDE RESULTS ARE PRESENTED HERE. GROUND
LEVEL AND TOWER SAMPLING 200-3200 M ARCS.

TEST MT2 MAY 19, 1964 0420 TO 0440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
74.0	25	7.534E-08	2.863E-07	200
76.0	51	1.507E-07	5.726E-07	200
78.0	76	2.260E-07	8.589E-07	200
80.0	49	1.440E-07	5.407E-07	200
86.0	29	8.789E-08	3.340E-07	200
88.0	59	1.758E-07	6.680E-07	200
90.0	83	2.448E-07	9.304E-07	200
92.0	147	4.332E-07	1.646E-06	200
94.0	813	2.392E-06	9.090E-06	200
96.0	1993	5.832E-06	2.216E-05	200
98.0	4178	1.235E-05	4.693E-05	200
100.0	8265	2.431E-05	9.237E-05	200
102.0	14333	4.216E-05	1.602E-04	200
104.0	18306	5.384E-05	2.046E-04	200
106.0	14978	4.405E-05	1.674E-04	200
108.0	18918	5.544E-05	2.114E-04	200
110.0	20201	5.942E-05	2.258E-04	200
112.0	30368	8.932E-05	3.394E-04	200
114.0	23719	6.976E-05	2.651E-04	200
116.0	56224	1.654E-04	6.284E-04	200
118.0	78264	2.302E-04	8.747E-04	200
120.0	88614	2.606E-04	9.904E-04	200
122.0	56745	1.669E-04	6.342E-04	200
124.0	66244	1.948E-04	7.404E-04	200
126.0	72906	2.144E-04	8.148E-04	200
128.0	32902	9.677E-05	3.677E-04	200
130.0	16461	4.842E-05	1.840E-04	200
132.0	7315	2.152E-05	8.176E-05	200
134.0	2309	6.793E-06	2.581E-05	200
136.0	1103	3.246E-06	1.233E-05	200
138.0	324	9.583E-07	3.626E-06	200
152.0	42	1.256E-07	4.771E-07	200

CROSSWIND INTEGRATED= 1.304E-02 4.972E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW.....

TEST MT2 MAY 19, 1964 0420 TO 0440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 3.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.3	5604	1.648E-05	6.264E-05	200
98.0	0.7	5539	1.629E-05	6.192E-05	200
98.0	1.4	2116	6.226E-06	2.366E-05	200
98.0	2.7	2220	6.537E-06	2.481E-05	200
98.0	4.1	1739	5.118E-06	1.945E-05	200
98.0	5.4	2415	7.104E-06	2.699E-05	200
98.0	6.8	2002	5.890E-06	2.238E-05	200
98.0	8.1	1518	4.467E-06	1.698E-05	200
98.0	9.4	1553	4.569E-06	1.736E-05	200
98.0	10.8	897	2.640E-06	1.003E-05	200
98.0	13.5	866	2.373E-06	9.017E-06	200
98.0	16.2	440	1.297E-06	4.927E-06	200
98.0	18.9	217	6.392E-07	2.429E-06	200
98.0	21.6	179	5.273E-07	2.004E-06	200
98.0	24.3	70	2.068E-07	7.857E-07	200
98.0	27.0	70	2.068E-07	7.857E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.3	18368	5.402E-05	2.053E-04	200
106.0	0.7	20872	6.139E-05	2.333E-04	200
106.0	1.4	8784	2.584E-05	9.810E-05	200
106.0	2.7	9493	2.910E-05	1.106E-04	200
106.0	4.1	9459	2.782E-05	1.057E-04	200
106.0	5.4	9232	2.715E-05	1.032E-04	200
106.0	6.8	7450	2.191E-05	8.328E-05	200
106.0	8.1	6512	1.916E-05	7.279E-05	200
106.0	9.4	6900	2.030E-05	7.713E-05	200
106.0	10.8	6913	2.033E-05	7.726E-05	200
106.0	13.5	4109	1.209E-05	4.593E-05	200
106.0	16.2	2819	8.292E-06	3.151E-05	200
106.0	18.9	2121	6.241E-06	2.371E-05	200
106.0	21.6	1302	3.832E-06	1.456E-05	200
106.0	24.3	674	1.985E-06	7.543E-06	200
106.0	27.0	525	1.545E-06	5.870E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.3	32634	4.598E-05	3.647E-04	200
114.0	0.7	36671	1.079E-04	4.099E-04	200
114.0	1.4	15903	4.689E-05	1.782E-04	200
114.0	2.7	21912	6.454E-05	2.452E-04	200
114.0	4.1	20628	4.067E-05	2.306E-04	200
114.0	5.4	14878	4.374E-05	1.663E-04	200
114.0	6.8	15356	4.517E-05	1.716E-04	200
114.0	8.1	11524	3.390E-05	1.288E-04	200
114.0	9.4	18734	5.510E-05	2.094E-04	200
114.0	10.8	18639	5.482E-05	2.083E-04	200
114.0	13.5	13755	4.046E-05	1.537E-04	200
114.0	16.2	12128	3.567E-05	1.355E-04	200
114.0	18.9	8665	2.549E-05	9.685E-05	200
114.0	21.6	4538	1.335E-05	5.072E-05	200
114.0	24.3	2436	7.166E-06	2.723E-05	200
114.0	27.0	1445	4.250E-06	1.615E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
122.0	0.3	58272	1.714E-04	6.513E-04	200
122.0	0.7	73226	2.154E-04	8.184E-04	200
122.0	1.4	34350	1.010E-04	3.839E-04	200
122.0	2.7	38323	1.127E-04	4.283E-04	200
122.0	4.1	41900	1.229E-04	4.672E-04	200
122.0	5.4	37779	1.111E-04	4.222E-04	200
122.0	6.8	54562	1.664E-04	6.322E-04	200
122.0	8.1	34730	1.021E-04	3.882E-04	200
122.0	9.4	29867	4.785E-05	3.338E-04	200
122.0	10.8	29537	4.687E-05	3.301E-04	200
122.0	13.5	23467	6.902E-05	2.623E-04	200
122.0	16.2	17611	5.180E-05	1.968E-04	200
122.0	18.9	12397	3.646E-05	1.386E-04	200
122.0	21.6	5616	1.652E-05	6.277E-05	200
122.0	24.3	4349	1.279E-05	4.861E-05	200
122.0	27.0	2276	6.696E-06	2.544E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. ² X10E+6	F/D SEC/CM. ²	FU/D 1/SQ.M	DISTANCE METERS
130.0	0.3	17086	5.026E-05	1.919E-04	200
130.0	0.7	23001	6.765E-05	2.571E-04	200
130.0	1.4	10000	2.941E-05	1.118E-04	200
130.0	2.7	9988	2.937E-05	1.116E-04	200
130.0	4.1	5247	2.720E-05	1.034E-04	200
130.0	5.4	10547	3.190E-05	1.212E-04	200
130.0	6.8	10062	2.960E-05	1.125E-04	200
130.0	8.1	10029	3.064E-05	1.166E-04	200
130.0	9.4	9507	2.794E-05	1.063E-04	200
130.0	10.8	9723	2.860E-05	1.087E-04	200
130.0	13.5	7144	2.101E-05	7.984E-05	200
130.0	16.2	6410	1.886E-05	7.165E-05	200
130.0	18.9	5289	1.556E-05	5.912E-05	200
130.0	21.6	3849	1.132E-05	4.302E-05	200
130.0	24.3	1649	4.853E-06	1.844E-05	200
130.0	27.0	933	2.747E-06	1.044E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. ² X10E+6	F/D SEC/CM. ²	FU/D 1/SQ.M	DISTANCE METERS
106.0	0.3	764	2.255E-06	8.570E-06	800
106.0	0.5	1194	3.514E-06	1.335E-05	800
106.0	1.0	881	1.415E-06	5.376E-06	800
106.0	2.1	348	1.024E-06	3.899E-06	800
106.0	4.2	462	1.359E-06	5.164E-06	800
106.0	6.3	710	2.089E-06	7.939E-06	800
106.0	8.4	561	1.652E-06	6.279E-06	800
106.0	10.5	697	2.051E-06	7.793E-06	800
106.0	12.6	890	2.620E-06	9.956E-06	800
106.0	14.7	854	2.512E-06	9.545E-06	800
106.0	16.8	722	1.244E-06	8.071E-06	800
106.0	21.0	921	2.711E-06	1.030E-05	800
106.0	25.2	701	2.063E-06	7.839E-06	800
106.0	29.4	541	1.563E-06	5.939E-06	800
106.0	33.6	619	1.823E-06	6.927E-06	800
106.0	37.8	605	1.780E-06	6.764E-06	800
106.0	42.0	435	1.240E-06	4.864E-06	800

TEST #12 MAY 19, 1964 0420 TO 0440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
PARK ARC SAMPLER MT 1.5M U= 3.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. ² X10E+6	F/D SEC/CM. ²	FU/D 1/SQ.M	DISTANCE METERS
90.0	92	2.733E-07	1.038E-06	800
96.0	53	1.579E-07	6.000E-07	800
98.0	441	1.300E-06	4.939E-06	800
100.0	607	1.785E-06	6.785E-06	800
102.0	1020	3.000E-06	1.140E-05	800
104.0	900	2.648E-06	1.006E-05	800
106.0	761	2.241E-06	8.516E-06	800
108.0	887	2.611E-06	9.923E-06	800
110.0	2035	5.988E-06	2.275E-05	800
112.0	3332	9.802E-06	3.725E-05	800
114.0	4001	1.177E-05	4.472E-05	800
116.0	6010	1.768E-05	6.710E-05	800
118.0	4466	1.314E-05	4.992E-05	800
120.0	5083	1.495E-05	5.682E-05	800
122.0	3024	8.897E-06	3.361E-05	800
124.0	1622	4.773E-06	1.814E-05	800
126.0	22	6.680E-08	2.539E-07	800
128.0	256	7.531E-07	2.862E-06	800
130.0	80	2.364E-07	9.000E-07	800

CROSSHAIRING INTEGRATED= 2.859E-03 SEC/SQ.M 1.086E-02 1/M

TOTAL DATA FOLLOWING...

TEST #12 MAY 19, 1964 0420 TO 0440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
PARK ARC U= 3.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. ² X10E+6	F/D SEC/CM. ²	FU/D 1/SQ.M	DISTANCE METERS
94.0	8.2	114	3.354E-07	1.274E-06	800
96.0	6.3	243	7.162E-07	2.721E-06	800
98.0	4.4	100	5.590E-07	2.124E-06	800
99.0	12.5	308	9.083E-07	3.452E-06	800
99.0	12.6	142	4.192E-07	1.593E-06	800
99.0	14.7	71	2.096E-07	7.965E-07	800
99.0	16.8	109	3.214E-07	1.221E-06	800
99.0	21.0	80	2.376E-07	9.027E-07	800
99.0	25.2	51	1.514E-07	5.754E-07	800
99.0	29.4	52	1.543E-07	5.863E-07	800
99.0	33.6	32	9.429E-08	3.583E-07	800
99.0	37.8	33	9.714E-08	3.691E-07	800
99.0	42.0	34	1.029E-07	3.909E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. ² X10E+6	F/D SEC/CM. ²	FU/D 1/SQ.M	DISTANCE METERS
114.0	0.3	4927	1.185E-05	4.501E-05	800
114.0	0.5	2975	8.751E-06	3.325E-05	800
114.0	1.0	1747	5.134E-06	1.953E-05	800
114.0	2.1	2391	7.032E-06	2.672E-05	800
114.0	4.2	3221	9.474E-06	3.600E-05	800
114.0	6.3	3349	9.852E-06	3.744E-05	800
114.0	8.4	3360	9.883E-06	3.756E-05	800
114.0	10.5	4008	1.179E-05	4.480E-05	800
114.0	12.6	4913	1.445E-05	5.492E-05	800
114.0	14.7	4213	1.230E-05	4.709E-05	800
114.0	16.8	3909	1.150E-05	4.369E-05	800
114.0	21.0	3336	9.813E-06	3.729E-05	800
114.0	25.2	2741	8.063E-06	3.064E-05	800
114.0	29.4	2167	6.374E-06	2.422E-05	800
114.0	33.6	2618	7.700E-06	2.926E-05	800
114.0	37.8	2046	6.020E-06	2.288E-05	800
114.0	42.0	1585	4.663E-06	1.772E-05	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. ² X10E+6	F/D SEC/CM. ²	FU/D 1/SQ.M	DISTANCE METERS
122.0	0.3	3429	1.009E-05	3.833E-05	800
122.0	0.5	2731	8.034E-06	3.053E-05	800
122.0	1.0	1571	4.622E-06	1.756E-05	800
122.0	2.1	2105	6.194E-06	2.354E-05	800
122.0	4.2	2170	6.383E-06	2.425E-05	800
122.0	6.3	1721	5.062E-06	1.924E-05	800
122.0	8.4	2167	6.376E-06	2.423E-05	800
122.0	10.5	2952	7.214E-06	2.741E-05	800
122.0	12.6	2154	6.337E-06	2.408E-05	800
122.0	14.7	1823	5.363E-06	2.038E-05	800
122.0	16.8	2023	5.953E-06	2.262E-05	800
122.0	21.0	2184	6.425E-06	2.441E-05	800
122.0	25.2	2290	6.737E-06	2.560E-05	800
122.0	29.4	1818	5.309E-06	2.032E-05	800
122.0	33.6	1746	5.020E-06	1.908E-05	800
122.0	37.8	1281	3.769E-06	1.432E-05	800
122.0	42.0	977	2.874E-06	1.092E-05	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
130.0	0.3	151	4.459E-07	1.694E-06	800	106.0	0.2	192	5.665E-07	2.153E-06	1600
130.0	0.5	47	1.399E-07	5.315E-07	800	106.0	0.4	440	1.296E-06	4.924E-06	1600
130.0	1.0	39	1.153E-07	4.381E-07	800	106.0	0.8	342	1.007E-06	3.825E-06	1600
130.0	2.1	49	1.467E-07	5.576E-07	800	106.0	1.5	191	5.623E-07	2.137E-06	1600
130.0	4.2	112	3.319E-07	1.261E-06	800	106.0	3.1	216	6.363E-07	2.418E-06	1600
130.0	6.3	49	1.467E-07	5.576E-07	800	106.0	6.2	312	9.205E-07	3.498E-06	1600
130.0	8.4	45	1.328E-07	5.045E-07	800	106.0	9.3	276	8.139E-07	3.093E-06	1600
130.0	10.5	51	1.502E-07	5.708E-07	800	106.0	12.4	271	7.991E-07	3.037E-06	1600
130.0	12.6	58	1.712E-07	6.505E-07	800	106.0	15.5	424	1.249E-06	4.746E-06	1600
130.0	14.7	71	2.096E-07	7.965E-07	800	106.0	18.6	294	8.672E-07	3.295E-06	1600
130.0	16.8	59	1.747E-07	6.638E-07	800	106.0	21.7	410	1.208E-06	4.589E-06	1600
130.0	21.0	74	2.201E-07	8.363E-07	800	106.0	24.8	238	7.009E-07	2.664E-06	1600
130.0	25.2	30	8.857E-08	3.366E-07	800	106.0	31.0	140	5.313E-07	2.019E-06	1600

TEST M12 MAY 19, 1964 0420 TO 0440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 2M

106.0	37.2	290	8.556E-07	3.251E-06	1600
106.0	43.4	346	1.018E-06	3.867E-06	1600
106.0	49.6	242	7.128E-07	2.709E-06	1600
106.0	55.8	212	6.254E-07	2.376E-06	1600
106.0	62.0	185	5.447E-07	2.070E-06	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
98.0	30	9.000E-08	3.420E-07	1600	
99.0	74	2.179E-07	8.280E-07	1600	
100.0	161	4.737E-07	1.800E-06	1600	
101.0	162	4.784E-07	1.818E-06	1600	
102.0	254	7.485E-07	2.844E-06	1600	
103.0	212	6.253E-07	2.376E-06	1600	
104.0	170	5.258E-07	1.998E-06	1600	
105.0	246	7.208E-07	2.754E-06	1600	
106.0	436	1.284E-06	4.878E-06	1600	
107.0	320	9.427E-07	3.582E-06	1600	
108.0	805	2.369E-06	9.000E-06	1600	
109.0	1489	4.382E-06	1.665E-05	1600	
110.0	1571	4.673E-06	1.757E-05	1600	
111.0	1317	3.875E-06	1.472E-05	1600	
112.0	1971	5.798E-06	2.203E-05	1600	
113.0	1943	5.718E-06	2.173E-05	1600	
114.0	1607	4.728E-06	1.796E-05	1600	
115.0	1349	3.970E-06	1.508E-05	1600	
116.0	1093	3.216E-06	1.222E-05	1600	
117.0	647	1.904E-06	7.236E-06	1600	
118.0	628	1.847E-06	7.020E-06	1600	
119.0	592	1.743E-06	6.624E-06	1600	
120.0	210	6.206E-07	2.358E-06	1600	
121.0	124	3.608E-07	1.386E-06	1600	
122.0	115	3.411E-07	1.296E-06	1600	
123.0	57	1.705E-07	6.480E-07	1600	
124.0	22	6.632E-08	2.520E-07	1600	
7 149.0	223	6.585E-07	2.502E-06	1600	

CROSSWIND INTEGRATED= 1.709E-03 SEC/SQ.M 6.495E-03 1/M

TOWER DATA FILLING....

TEST M12 MAY 19, 1964 0420 TO 0440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC U= 3.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.2	26	7.835E-08	2.977E-07	1600
98.0	0.4	28	8.438E-08	3.206E-07	1600
98.0	1.5	24	7.103E-08	2.699E-07	1600
98.0	3.1	19	5.623E-08	2.137E-07	1600
98.0	6.2	34	1.006E-07	3.824E-07	1600
98.0	12.4	31	9.175E-08	3.487E-07	1600
98.0	15.5	32	9.471E-08	3.599E-07	1600
98.0	18.6	26	7.695E-08	2.924E-07	1600
98.0	21.7	34	1.006E-07	3.824E-07	1600
98.0	43.4	18	5.488E-08	2.085E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.2	940	2.766E-06	1.051E-05	1600
114.0	0.4	1579	4.647E-06	1.766E-05	1600
114.0	0.8	1893	5.569E-06	2.116E-05	1600
114.0	1.5	1904	2.954E-06	1.122E-05	1600
114.0	3.1	1104	3.250E-06	1.235E-05	1600
114.0	6.2	1230	3.620E-06	1.375E-05	1600
114.0	9.3	1451	4.268E-06	1.622E-05	1600
114.0	12.4	1910	5.620E-06	2.136E-05	1600
114.0	15.5	1950	5.736E-06	2.180E-05	1600
114.0	18.6	1653	4.863E-06	1.848E-05	1600
114.0	21.7	2113	6.215E-06	2.362E-05	1600
114.0	24.8	1671	4.916E-06	1.868E-05	1600
114.0	31.0	1164	3.425E-06	1.301E-05	1600
114.0	37.2	1507	4.433E-06	1.684E-05	1600
114.0	43.4	1733	5.099E-06	1.937E-05	1600
114.0	49.6	1044	3.073E-06	1.168E-05	1600
114.0	55.8	851	2.504E-06	9.514E-06	1600
114.0	62.0	688	2.026E-06	7.700E-06	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
122.0	0.2	40	1.205E-07	4.581E-07	1600
122.0	0.4	28	8.438E-08	3.206E-07	1600
122.0	0.8	88	2.592E-07	9.848E-07	1600
122.0	1.5	117	3.463E-07	1.316E-06	1600
122.0	3.1	46	2.545E-07	9.672E-07	1600
122.0	6.2	92	2.723E-07	1.035E-06	1600
122.0	9.3	85	2.516E-07	9.560E-07	1600
122.0	12.4	60	1.776E-07	6.748E-07	1600
122.0	15.5	136	4.025E-07	1.530E-06	1600
122.0	18.6	114	3.374E-07	1.282E-06	1600
122.0	21.7	82	2.427E-07	9.222E-07	1600
122.0	24.8	116	3.417E-07	1.299E-06	1600
122.0	31.0	120	3.542E-07	1.346E-06	1600
122.0	37.2	55	1.646E-07	6.256E-07	1600
122.0	43.4	61	1.821E-07	6.920E-07	1600
122.0	49.6	38	1.121E-07	4.259E-07	1600
122.0	55.8	32	9.639E-08	3.663E-07	1600
122.0	62.0	41	1.233E-07	4.685E-07	1600

TEST #12 MAY 19, 1964 0420 TO 0440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
71.0	67	1.990E-07	7.561E-07	3200
72.0	19	5.724E-08	2.175E-07	3200
87.0	12	3.543E-08	1.347E-07	3200
96.0	17	5.179E-08	1.968E-07	3200
97.0	7	2.726E-08	1.036E-07	3200
98.0	36	1.063E-07	4.040E-07	3200
99.0	66	1.963E-07	7.458E-07	3200
100.0	94	2.780E-07	1.056E-06	3200
101.0	88	2.617E-07	9.943E-07	3200
102.0	95	2.807E-07	1.067E-06	3200
103.0	95	2.807E-07	1.067E-06	3200
104.0	83	2.453E-07	9.322E-07	3200
105.0	161	4.743E-07	1.802E-06	3200
106.0	253	7.468E-07	2.838E-06	3200
107.0	350	1.030E-06	3.915E-06	3200
108.0	567	1.668E-06	6.339E-06	3200
109.0	574	1.690E-06	6.422E-06	3200
110.0	741	2.181E-06	8.286E-06	3200
111.0	610	1.796E-06	6.826E-06	3200
112.0	618	1.818E-06	6.909E-06	3200
113.0	523	1.540E-06	5.852E-06	3200
114.0	265	7.796E-07	2.962E-06	3200
115.0	192	5.669E-07	2.154E-06	3200
116.0	113	3.353E-07	1.274E-06	3200
117.0	35	1.036E-07	3.936E-07	3200
118.0	27	8.177E-08	3.107E-07	3200

CROSSWIND INTEGRATED= 9.958E-04 SEC/SQ.M
3.784E-03 1/M

TOWER DATA FOLLOWS....

TEST #12 MAY 19, 1964 0420 TO 0440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC U= 3.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
98.0	0.2	12	3.712E-08	1.411E-07	3200
98.0	0.4	9	2.856E-08	1.085E-07	3200
98.0	0.8	32	9.423E-08	3.581E-07	3200
98.0	1.5	24	7.144E-08	2.715E-07	3200
98.0	3.1	8	2.381E-08	9.049E-08	3200
98.0	6.2	3	9.923E-09	3.771E-08	3200
98.0	9.3	14	4.168E-08	1.584E-07	3200
98.0	9.3	14	4.168E-08	1.584E-07	3200
98.0	12.4	15	4.564E-08	1.734E-07	3200
98.0	18.6	9	2.776E-08	1.056E-07	3200
98.0	21.7	6	1.786E-08	6.787E-08	3200
98.0	24.8	4	1.247E-08	4.738E-08	3200
98.0	31.0	4	1.247E-08	4.738E-08	3200
98.0	37.2	8	2.493E-08	9.475E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
106.0	0.2	121	3.569E-07	1.356E-06	3200
106.0	0.4	296	8.709E-07	3.310E-06	3200
106.0	0.8	113	3.341E-07	1.270E-06	3200
106.0	1.5	170	5.001E-07	1.900E-06	3200
106.0	3.1	124	3.671E-07	1.395E-06	3200
106.0	6.2	122	3.612E-07	1.373E-06	3200
106.0	9.3	236	6.946E-07	2.639E-06	3200
106.0	12.4	209	6.152E-07	2.334E-06	3200
106.0	18.6	244	7.184E-07	2.730E-06	3200
106.0	18.6	197	5.517E-07	2.096E-06	3200
106.0	21.7	204	6.013E-07	2.285E-06	3200
106.0	24.8	138	4.061E-07	1.543E-06	3200
106.0	31.0	139	4.096E-07	1.557E-06	3200
106.0	37.2	113	3.331E-07	1.266E-06	3200
106.0	43.4	155	4.577E-07	1.739E-06	3200
106.0	49.6	152	4.494E-07	1.708E-06	3200
106.0	55.8	118	3.479E-07	1.322E-06	3200
106.0	62.0	42	1.248E-07	4.744E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
114.0	0.2	272	8.624E-07	3.449E-06	3200
114.0	0.4	320	4.023E-07	3.581E-06	3200
114.0	0.8	107	5.797E-07	2.203E-06	3200
114.0	1.5	284	8.375E-07	3.182E-06	3200
114.0	3.1	299	8.811E-07	3.348E-06	3200
114.0	6.2	203	9.633E-07	3.280E-06	3200
114.0	9.3	262	7.720E-07	2.934E-06	3200
114.0	12.4	411	1.300E-06	4.940E-06	3200
114.0	15.5	378	1.113E-06	4.231E-06	3200
114.0	18.6	318	9.367E-07	3.559E-06	3200
114.0	21.7	421	1.238E-06	4.706E-06	3200
114.0	24.8	344	1.013E-06	3.851E-06	3200
114.0	31.0	353	1.038E-06	3.946E-06	3200
114.0	37.2	297	8.745E-07	3.323E-06	3200
114.0	43.4	429	1.263E-06	4.798E-06	3200
114.0	49.6	281	8.273E-07	3.144E-06	3200
114.0	55.8	273	8.040E-07	3.055E-06	3200
114.0	62.0	243	7.158E-07	2.728E-06	3200

SECONDARY SERIES EXPERIMENT: MT-2F
ZINC SULFIDE AND FLUORESCHEIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT MT-2. FLUORESCHEIN RESULTS ARE PRESENTED HERE. GROUND
LEVEL AND TOWER SAMPLING 200-3200 M ARCS.

TEST MT2F MAY 19, 1964 0420 TO 0433 PST
FLUORESCHEIN RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HI 1.5M U= 3.8 M/SEC AT 2M

AZIMUTH EXPOSURE E/O FL/O DISTANCE
DEGREES GM-SEC/CM² SEC/CM² 1/50.M METERS
X10E+6

68.0	148	1.416E-07	5.380E-07	200
70.0	114	1.094E-07	4.157E-07	200
72.0	94	9.009E-08	3.423E-07	200
74.0	114	1.094E-07	4.157E-07	200
76.0	105	1.094E-07	3.415E-07	200
78.0	94	9.009E-08	3.423E-07	200
80.0	101	9.653E-08	3.668E-07	200
82.0	159	1.519E-07	5.771E-07	200
84.0	67	6.435E-08	2.445E-07	200
86.0	148	1.416E-07	5.380E-07	200
88.0	283	2.703E-07	1.027E-06	200
90.0	1283	1.223E-06	4.646E-06	200
92.0	2772	2.811E-06	1.076E-05	200
94.0	9459	9.009E-06	3.423E-05	200
96.0	36351	3.462E-05	1.316E-04	200
98.0	59121	5.631E-05	2.140E-04	200
100.0	84459	8.044E-05	3.057E-04	200
102.0	114864	1.094E-04	4.157E-04	200
104.0	144729	1.447E-04	5.624E-04	200
106.0	155405	1.540E-04	5.624E-04	200
108.0	93243	8.886E-05	3.375E-04	200
110.0	70945	6.757E-05	2.568E-04	200
112.0	64844	6.178E-05	2.347E-04	200
114.0	67567	6.435E-05	2.445E-04	200
116.0	87837	8.366E-05	3.179E-04	200
118.0	91216	8.687E-05	3.301E-04	200
120.0	54054	5.148E-05	1.956E-04	200
122.0	52702	5.019E-05	1.907E-04	200
124.0	56091	5.341E-05	2.030E-04	200
126.0	5067	4.826E-06	1.834E-05	200
128.0	17297	1.647E-05	6.268E-05	200
130.0	10135	9.653E-06	3.668E-05	200
132.0	7054	3.861E-06	1.467E-05	200
134.0	5290	3.134E-06	1.191E-05	200
136.0	621	5.920E-07	2.250E-06	200

CROSS-SECTION INTEGRATED= 8.801E-13
SEC/50.M 1/M

TOWER DATA FOLLOW....

TEST MT2F MAY 19, 1964 0420 TO 0433 PST
FLUORESCHEIN RELEASE FROM ELEVATION OF 2M
200M ARC U= 3.8 M/SEC AT 2M

AZIMUTH HEIGHT EXPOSURE E/O FL/O DISTANCE
DEGREES METERS GM-SEC/CM² SEC/CM² 1/50.M METERS
X10E+6

92.0	0.3	49729	4.736E-05	1.800E-04	200
94.0	0.7	54054	5.148E-05	1.956E-04	200
96.0	1.4	54054	5.148E-05	1.956E-04	200
98.0	2.7	54054	5.148E-05	1.956E-04	200
98.0	4.1	36486	3.475E-05	1.320E-04	200
98.0	5.4	43243	4.118E-05	1.565E-04	200
98.0	6.8	44594	4.247E-05	1.614E-04	200
98.0	8.1	33513	3.192E-05	1.213E-04	200
98.0	9.4	33513	3.192E-05	1.213E-04	200
98.0	10.8	28378	2.703E-05	1.027E-04	200
98.0	13.5	23648	2.252E-05	8.559E-05	200
98.0	16.2	7432	7.079E-06	2.690E-05	200
98.0	18.9	10810	1.030E-05	3.912E-05	200
98.0	21.6	6756	6.435E-06	2.445E-05	200
98.0	24.3	3108	2.960E-06	1.125E-05	200
98.0	27.0	1729	1.647E-06	6.268E-06	200

AZIMUTH HEIGHT EXPOSURE E/O FL/O DISTANCE
DEGREES METERS GM-SEC/CM² SEC/CM² 1/50.M METERS
X10E+6

106.0	0.3	99999	9.524E-05	3.619E-04	200
106.0	0.7	99999	9.524E-05	3.619E-04	200
106.0	1.4	94594	9.009E-05	3.423E-04	200
106.0	2.7	108108	1.030E-04	3.912E-04	200
106.0	4.1	81081	7.722E-05	2.934E-04	200
106.0	5.4	94594	9.009E-05	3.423E-04	200
106.0	6.8	60810	5.792E-05	2.201E-04	200
106.0	8.1	45945	4.376E-05	1.663E-04	200
106.0	9.4	59459	5.663E-05	2.152E-04	200
106.0	10.8	56756	5.405E-05	2.054E-04	200
106.0	13.5	30810	2.934E-05	1.115E-04	200
106.0	16.2	19999	1.905E-05	7.238E-05	200
106.0	18.9	13783	1.313E-05	4.988E-05	200
106.0	21.6	6756	6.435E-06	2.445E-05	200
106.0	24.3	5864	5.586E-06	2.123E-05	200
106.0	27.0	4324	4.118E-06	1.565E-05	200

AZIMUTH HEIGHT EXPOSURE E/O FL/O DISTANCE
DEGREES METERS GM-SEC/CM² SEC/CM² 1/50.M METERS
X10E+6

114.0	0.3	55675	5.302E-05	2.015E-04	200
114.0	0.7	62162	5.920E-05	2.250E-04	200
114.0	1.4	63513	6.049E-05	2.299E-04	200
114.0	2.7	67567	6.435E-05	2.445E-04	200
114.0	4.1	66216	6.306E-05	2.396E-04	200
114.0	5.4	42567	4.054E-05	1.541E-04	200
114.0	6.8	48648	4.633E-05	1.761E-04	200
114.0	8.1	35135	3.346E-05	1.272E-04	200
114.0	9.4	48648	4.633E-05	1.761E-04	200
114.0	10.8	44594	4.247E-05	1.614E-04	200
114.0	13.5	36486	3.475E-05	1.320E-04	200
114.0	16.2	23243	2.214E-05	8.412E-05	200
114.0	18.9	17567	1.673E-05	6.358E-05	200
114.0	21.6	9594	9.138E-06	3.472E-05	200
114.0	24.3	7567	7.207E-06	2.739E-05	200
114.0	27.0	3513	3.346E-06	1.272E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10F+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
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122.0	0.3	37297	3.552E-05	1.350E-04	200
122.0	0.7	47817	4.556E-05	1.731E-04	200
122.0	2.7	49648	4.633E-05	1.761E-04	200
122.0	4.1	49189	4.685E-05	1.780E-04	200
122.0	5.4	43243	4.118E-05	1.565E-04	200
122.0	6.8	42937	5.985E-05	2.278E-04	200
122.0	8.1	41621	3.964E-05	1.506E-04	200
122.0	9.4	30810	2.934E-05	1.115E-04	200
122.0	10.8	37297	3.552E-05	1.350E-04	200
122.0	13.5	24324	2.317E-05	8.803E-05	200
122.0	16.2	21351	2.033E-05	7.727E-05	200
122.0	21.6	10270	9.781E-06	3.717E-05	200
122.0	24.3	7098	6.757E-06	2.568E-05	200
122.0	27.0	5027	4.788E-06	1.819E-05	200

TOWER DATA FOLLOWING...

TEST MIZE MAY 19, 1964 0420 TO 0433 PST
FLUORESCENT RELEASE FROM ELEVATION OF 2"
ROOM ARE 3.9 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10F+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
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98.0	1.0	1673	1.504E-06	6.055E-06	800
98.0	2.1	1229	1.170E-06	4.447E-06	800
98.0	4.2	5359	5.104E-06	1.940E-05	800
98.0	6.3	5594	5.328E-06	2.025E-05	800
98.0	8.4	5830	5.552E-06	2.110E-05	800
98.0	10.5	5071	4.830E-06	1.836E-05	800
98.0	12.6	4424	4.233E-06	1.608E-05	800
98.0	14.7	2222	2.116E-06	8.042E-06	800
98.0	16.8	3189	3.038E-06	1.154E-05	800
98.0	21.0	2610	2.490E-06	9.462E-06	800
98.0	25.2	1998	1.818E-06	6.907E-06	800
98.0	29.4	1411	1.305E-06	5.109E-06	800
98.0	33.6	1281	1.220E-06	4.636E-06	800
98.0	37.8	588	5.602E-07	2.129E-06	800
98.0	42.0	503	4.793E-07	1.821E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10F+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
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130.0	0.3	13783	1.313E-05	4.988E-05	200
130.0	0.7	14954	1.338E-05	5.086E-05	200
130.0	1.4	15945	1.519E-05	5.771E-05	200
130.0	2.7	15405	1.467E-05	5.575E-05	200
130.0	4.1	17027	1.622E-05	6.162E-05	200
130.0	5.4	15405	1.467E-05	5.575E-05	200
130.0	6.8	16486	1.570E-05	5.967E-05	200
130.0	8.1	14864	1.416E-05	5.380E-05	200
130.0	9.4	13783	1.313E-05	4.988E-05	200
130.0	10.8	12162	1.158E-05	4.402E-05	200
130.0	13.5	11351	1.081E-05	4.108E-05	200
130.0	16.2	8108	7.722E-06	2.934E-05	200
130.0	18.9	6886	6.178E-06	2.347E-05	200
130.0	21.6	4540	4.324E-06	1.643E-05	200
130.0	24.3	2432	2.317E-06	8.803E-06	200
130.0	27.0	1587	1.512E-06	5.746E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10F+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
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106.0	0.3	3555	3.386E-06	1.287E-05	800
106.0	0.5	3869	3.688E-06	1.400E-05	800
106.0	1.0	4096	4.283E-06	1.627E-05	800
106.0	2.1	5019	4.781E-06	1.817E-05	800
106.0	4.2	5019	4.781E-06	1.817E-05	800
106.0	6.3	5827	5.378E-06	2.044E-05	800
106.0	8.4	5856	5.577E-06	2.119E-05	800
106.0	10.5	5960	5.677E-06	2.157E-05	800
106.0	12.6	6535	6.225E-06	2.365E-05	800
106.0	14.7	6883	6.175E-06	2.346E-05	800
106.0	16.8	6169	5.876E-06	2.233E-05	800
106.0	21.0	6274	5.976E-06	2.271E-05	800
106.0	25.2	5960	5.677E-06	2.157E-05	800
106.0	29.4	5647	5.378E-06	2.044E-05	800
106.0	33.6	5437	5.179E-06	1.968E-05	800
106.0	37.8	4183	3.984E-06	1.584E-05	800
106.0	42.0	3555	3.386E-06	1.287E-05	800

TEST MIZE MAY 19, 1964 0420 TO 0433 PST
FLUORESCENT RELEASE FROM ELEVATION OF 2M
ROOM ARE 3.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10F+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
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98.0	1.0	9.711E-08	3.690E-07	800
98.0	8.4	7.968E-07	3.028E-06	800
98.0	5620	5.353E-06	2.034E-05	800
100.0	11437	1.089E-05	4.139E-05	800
102.0	13071	1.265E-05	4.731E-05	800
104.0	9426	8.092E-06	3.075E-05	800
106.0	5322	5.135E-06	1.951E-05	800
108.0	4208	4.046E-06	1.530E-05	800
110.0	5555	5.291E-06	2.011E-05	800
112.0	7643	7.870E-06	2.838E-05	800
114.0	6535	6.225E-06	2.365E-05	800
116.0	4901	4.649E-06	1.774E-05	800
118.0	4771	4.544E-06	1.727E-05	800
120.0	4771	4.544E-06	1.727E-05	800
122.0	2679	2.552E-06	9.698E-06	800
124.0	934	4.901E-07	3.383E-06	800
126.0	418	3.984E-07	1.514E-06	800
128.0	299	1.992E-07	7.569E-07	800
130.0	163	1.556E-07	5.913E-07	800
132.0	718	6.847E-07	2.602E-06	800

CROSSWIND INTEGRATED= 2.359E-03 SEC/30.M
8.965E-03 1/M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10F+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
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114.0	0.3	4298	4.046E-06	1.539E-05	800
114.0	0.5	4509	4.295E-06	1.632E-05	800
114.0	1.0	5856	5.577E-06	2.119E-05	800
114.0	2.1	5228	4.980E-06	1.892E-05	800
114.0	4.2	6183	5.851E-06	2.223E-05	800
114.0	6.3	7124	6.785E-06	2.578E-05	800
114.0	8.4	3202	3.050E-06	1.159E-05	800
114.0	10.5	7320	6.972E-06	2.649E-05	800
114.0	12.6	7823	7.470E-06	2.838E-05	800
114.0	14.7	7320	6.972E-06	2.649E-05	800
114.0	16.8	7320	6.972E-06	2.649E-05	800
114.0	21.0	8039	7.656E-06	2.909E-05	800
114.0	25.2	6797	6.478E-06	2.460E-05	800
114.0	29.4	6535	6.225E-06	2.365E-05	800
114.0	33.6	4404	4.233E-06	1.608E-05	800
114.0	37.8	3986	3.797E-06	1.443E-05	800
114.0	42.0	3032	2.888E-06	1.098E-05	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/D SEC/CM. X10E+6	FU/D 1/SQ.M	DISTANCE METERS
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TOWER DATA FOLLOW.....

122.0	0.3	1060	1.867E-06	7.096E-06	800
122.0	0.5	2039	1.902E-06	7.380E-06	800
122.0	2.1	2875	2.739E-06	1.041E-05	800
122.0	4.2	3032	2.888E-06	1.098E-05	800
122.0	6.5	3032	2.898E-06	1.098E-05	800
122.0	8.8	2875	2.739E-06	1.041E-05	800
122.0	10.5	3660	3.486E-06	1.325E-05	800
122.0	12.4	2771	2.639E-06	1.003E-05	800
122.0	14.7	2705	2.614E-06	9.935E-06	800
122.0	16.8	2705	2.614E-06	9.935E-06	800
122.0	21.0	2614	2.490E-06	9.462E-06	800
122.0	29.4	2405	2.291E-06	9.705E-06	800
122.0	33.6	2208	2.141E-06	9.137E-06	800
122.0	37.8	1830	1.743E-06	6.623E-06	800
122.0	42.0	2196	2.092E-06	7.908E-06	800

TEST M12F MAY 19, 1964 0420 TO 0433 PST
FLUORESCENCE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/D SEC/CM. X10E+6	FU/D 1/SQ.M	DISTANCE METERS
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130.0	0.3	66	6.346E-08	2.413E-07	800
130.0	0.5	83	7.968E-08	3.028E-07	800
130.0	1.0	138	1.320E-07	5.015E-07	800
130.0	2.1	109	1.416E-07	5.393E-07	800
130.0	4.2	1150	1.096E-06	4.163E-06	800
130.0	6.5	211	2.017E-07	7.664E-07	800
130.0	8.8	308	2.938E-07	1.116E-06	800
130.0	10.5	379	3.610E-07	1.372E-06	800
130.0	12.4	295	2.814E-07	1.069E-06	800
130.0	14.7	178	1.220E-07	4.636E-07	800
130.0	16.8	222	2.116E-07	8.002E-07	800
130.0	21.0	462	4.477E-07	1.675E-06	800
130.0	25.2	397	3.785E-07	1.438E-06	800
130.0	29.4	522	4.980E-07	1.892E-06	800
130.0	33.6	562	5.353E-07	2.034E-06	800
130.0	37.8	1008	1.046E-06	3.974E-06	800
130.0	42.0	185	1.768E-07	6.718E-07	800

TEST M12F MAY 19, 1964 0420 TO 0433 PST
FLUORESCENCE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. X10E+6	F/D SEC/CM. X10E+6	FU/D 1/SQ.M	DISTANCE METERS
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97.0	34	3.280E-06	1.248E-07	1600
98.0	732	6.979E-07	2.652E-06	1600
99.0	1992	1.888E-06	7.176E-06	1600
100.0	3534	3.366E-06	1.277E-05	1600
101.0	3965	3.777E-06	1.435E-05	1600
102.0	3771	3.592E-06	1.365E-05	1600
103.0	3917	2.870E-06	1.092E-05	1600
104.0	2586	2.043E-06	9.340E-06	1600
105.0	1465	1.396E-06	5.304E-06	1600
106.0	1939	1.847E-06	7.020E-06	1600
107.0	1293	1.232E-06	4.680E-06	1600
108.0	1551	1.478E-06	5.616E-06	1600
109.0	1831	1.745E-06	6.630E-06	1600
110.0	1896	1.806E-06	6.864E-06	1600
111.0	1379	1.314E-06	4.992E-06	1600
112.0	2198	2.090E-06	7.956E-06	1600
113.0	2069	1.970E-06	7.488E-06	1600
114.0	1681	1.601E-06	6.084E-06	1600
115.0	905	8.621E-07	3.276E-06	1600
116.0	603	5.747E-07	2.194E-06	1600
117.0	474	4.516E-07	1.716E-06	1600
118.0	500	4.762E-07	1.810E-06	1600
119.0	377	3.592E-07	1.365E-06	1600
120.0	181	1.724E-07	6.552E-07	1600
121.0	112	1.067E-07	4.056E-07	1600
122.0	107	1.026E-07	3.900E-07	1600
123.0	94	9.031E-08	3.432E-07	1600
124.0	51	4.926E-08	1.872E-07	1600
125.0	81	7.800E-08	2.964E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/D SEC/CM. X10E+6	FU/D 1/SQ.M	DISTANCE METERS
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98.0	0.2	517	4.926E-07	1.872E-06	1600
98.0	0.4	284	2.709E-07	1.030E-06	1600
98.0	0.8	878	4.516E-07	1.716E-06	1600
98.0	1.5	603	5.747E-07	2.184E-06	1600
98.0	3.1	600	6.588E-07	2.496E-06	1600
98.0	6.2	758	7.225E-07	2.745E-06	1600
98.0	9.3	663	6.322E-07	2.402E-06	1600
98.0	12.4	810	7.710E-07	2.933E-06	1600
98.0	15.5	620	5.911E-07	2.246E-06	1600
98.0	18.6	503	5.172E-07	1.966E-06	1600
98.0	21.7	401	4.680E-07	1.778E-06	1600
98.0	24.8	379	3.612E-07	1.373E-06	1600
98.0	31.0	258	2.463E-07	9.360E-07	1600
98.0	37.2	170	1.626E-07	6.177E-07	1600
98.0	43.4	170	1.626E-07	6.177E-07	1600
98.0	49.6	120	1.126E-07	4.499E-07	1600
98.0	55.8	86	9.195E-08	3.494E-07	1600
98.0	62.0	112	1.067E-07	4.056E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/D SEC/CM. X10E+6	FU/D 1/SQ.M	DISTANCE METERS
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108.0	0.2	1125	1.071E-06	4.071E-06	1600
108.0	0.4	1379	1.314E-06	4.992E-06	1600
108.0	0.8	1482	1.412E-06	5.366E-06	1600
108.0	1.5	1965	1.872E-06	7.113E-06	1600
108.0	3.1	1448	1.375E-06	5.241E-06	1600
108.0	6.2	1688	1.589E-06	6.037E-06	1600
108.0	9.3	1824	1.720E-06	6.536E-06	1600
108.0	12.4	1506	1.330E-06	5.050E-06	1600
108.0	15.5	1720	1.602E-06	6.240E-06	1600
108.0	18.6	1827	1.741E-06	6.614E-06	1600
108.0	21.7	1387	1.322E-06	5.023E-06	1600
108.0	24.8	1965	1.872E-06	7.113E-06	1600
108.0	31.0	1379	1.314E-06	4.992E-06	1600
108.0	37.2	1408	1.286E-06	4.864E-06	1600
108.0	43.4	1370	1.310E-06	4.992E-06	1600
108.0	49.6	1551	1.478E-06	5.616E-06	1600
108.0	55.8	1168	1.112E-06	4.227E-06	1600
108.0	62.0	1551	1.478E-06	5.616E-06	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/D SEC/CM. X10E+6	FU/D 1/SQ.M	DISTANCE METERS
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114.0	0.2	1125	1.071E-06	4.071E-06	1600
114.0	0.4	1220	1.166E-06	4.430E-06	1600
114.0	0.8	1913	1.346E-06	5.117E-06	1600
114.0	1.5	1310	1.248E-06	4.742E-06	1600
114.0	3.1	1310	1.248E-06	4.742E-06	1600
114.0	6.2	1120	1.076E-06	4.087E-06	1600
114.0	9.3	1206	1.206E-06	4.664E-06	1600
114.0	12.4	1720	1.602E-06	6.240E-06	1600
114.0	15.5	2010	1.938E-06	7.363E-06	1600
114.0	18.6	1206	1.206E-06	4.664E-06	1600
114.0	21.7	2034	1.938E-06	7.363E-06	1600
114.0	24.8	2068	1.970E-06	7.488E-06	1600
114.0	31.0	1655	1.576E-06	5.990E-06	1600
114.0	37.2	1703	1.706E-06	6.489E-06	1600
114.0	43.4	1506	1.511E-06	5.701E-06	1600
114.0	49.6	1396	1.330E-06	5.050E-06	1600
114.0	62.0	1060	1.011E-06	3.869E-06	1600

CROSSHAIR INTEGRATED= 1.075E-03 4.085E-03
SEC/SQ.M 1/X

TOKEF DATA FOLLOWING...

AZIMUTH HEIGHT EXPOSURE F/R FU/O DISTANCE TEST MTF
 DEGREES METERS GM-SEC/CM² SEC/CM² 1/SQ.M METERS
 X10E+6
 MAY 19, 1960 0420 TO 0433 PST
 FLUORESCENT RELEASE FROM ELEVATION OF 2M
 3200M ARC U= 3.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/R SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
122.0	0.2	42	5.911E-08	2.246E-07	1600
122.0	0.4	49	4.721E-08	1.794E-07	1600
122.0	0.8	61	5.829E-08	2.215E-07	1600
122.0	1.5	68	6.486E-08	2.465E-07	1600
122.0	3.1	77	7.308E-08	2.792E-07	1600
122.0	6.2	93	8.867E-08	3.369E-07	1600
122.0	9.3	85	8.128E-08	3.089E-07	1600
122.0	15.5	113	1.080E-07	4.118E-07	1600
122.0	18.6	120	1.149E-07	4.368E-07	1600
122.0	21.7	99	9.524E-08	3.619E-07	1600
122.0	24.8	115	1.100E-07	4.181E-07	1600
122.0	31.0	108	1.038E-07	3.931E-07	1600
122.0	37.2	108	1.034E-07	3.931E-07	1600
122.0	43.4	65	6.240E-08	2.371E-07	1600
122.0	49.6	89	4.680E-08	1.778E-07	1600
122.0	55.8	71	6.814E-08	2.589E-07	1600
122.0	62.0	51	4.926E-08	1.872E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/R SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
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98.0	0.2	282	1.931E-07	7.337E-07	3200
98.0	0.4	143	1.745E-07	6.631E-07	3200
98.0	0.8	267	2.451E-07	9.312E-07	3200
98.0	1.5	280	2.673E-07	1.016E-06	3200
98.0	3.1	350	3.302E-07	1.270E-06	3200
98.0	6.2	319	3.048E-07	1.157E-06	3200
98.0	9.3	280	2.673E-07	1.016E-06	3200
98.0	12.4	280	2.673E-07	1.016E-06	3200
98.0	15.5	288	2.748E-07	1.044E-06	3200
98.0	18.6	289	2.562E-07	9.735E-07	3200
98.0	21.7	280	2.673E-07	1.016E-06	3200
98.0	24.8	287	2.265E-07	8.607E-07	3200
98.0	31.0	206	1.968E-07	7.478E-07	3200
98.0	37.2	171	1.634E-07	6.208E-07	3200
98.0	43.4	144	1.374E-07	5.220E-07	3200
98.0	49.6	114	1.277E-07	4.854E-07	3200
98.0	55.8	101	9.654E-08	3.668E-07	3200
98.0	62.0	89	8.540E-08	3.245E-07	3200

TEST MTF MAY 19, 1960 0420 TO 0433 PST
 FLUORESCENT RELEASE FROM ELEVATION OF 2M
 3200M ARC SAMPLED HT 1.5M U= 3.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/R SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
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95.0	33	3.154E-08	1.179E-07	3200
96.0	93	8.911E-08	3.386E-07	3200
97.0	241	2.302E-07	8.748E-07	3200
98.0	349	3.711E-07	1.411E-06	3200
99.0	226	2.154E-07	8.183E-07	3200
100.0	818	7.797E-07	2.963E-06	3200
101.0	1364	1.300E-06	4.938E-06	3200
102.0	857	9.169E-07	3.104E-06	3200
103.0	779	7.426E-07	2.822E-06	3200
104.0	428	4.044E-07	1.552E-06	3200
105.0	662	6.312E-07	2.399E-06	3200
106.0	662	6.312E-07	2.399E-06	3200
107.0	799	7.612E-07	2.892E-06	3200
108.0	882	6.498E-07	2.469E-06	3200
109.0	656	6.256E-07	2.377E-06	3200
110.0	623	5.941E-07	2.257E-06	3200
111.0	633	6.034E-07	2.293E-06	3200
112.0	461	4.400E-07	1.672E-06	3200
113.0	341	3.249E-07	1.235E-06	3200
114.0	293	2.413E-07	9.171E-07	3200
115.0	113	1.077E-07	4.092E-07	3200
116.0	68	6.498E-08	2.469E-07	3200
117.0	37	3.527E-08	1.340E-07	3200
118.0	19	1.819E-08	6.918E-08	3200
119.0	13	1.262E-08	4.797E-08	3200
120.0	9	9.282E-09	3.527E-08	3200
121.0	10	9.654E-09	3.668E-08	3200

CROSSHAIR INTEGRATED= 4.001E+04
 SEC/SQ.M 2.280E+03
 1/M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/R SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
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106.0	0.2	479	4.567E-07	1.735E-06	3200
106.0	0.4	510	5.050E-07	1.919E-06	3200
106.0	0.8	487	4.641E-07	1.764E-06	3200
106.0	1.5	530	4.957E-07	1.884E-06	3200
106.0	3.1	331	3.154E-07	1.199E-06	3200
106.0	6.2	635	6.852E-07	2.300E-06	3200
106.0	9.3	612	5.829E-07	2.215E-06	3200
106.0	12.4	639	6.089E-07	2.314E-06	3200
106.0	15.5	640	6.290E-07	2.392E-06	3200
106.0	18.6	561	5.347E-07	2.032E-06	3200
106.0	21.7	582	5.551E-07	2.109E-06	3200
106.0	24.8	623	5.941E-07	2.257E-06	3200
106.0	31.0	740	7.240E-07	2.751E-06	3200
106.0	37.2	582	5.551E-07	2.109E-06	3200
106.0	43.4	561	5.254E-07	1.996E-06	3200
106.0	49.6	561	5.347E-07	2.032E-06	3200
106.0	55.8	633	6.034E-07	2.293E-06	3200
106.0	62.0	74	7.120E-07	2.709E-06	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/R SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
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118.0	0.2	23	2.191E-08	8.325E-08	3200
118.0	0.4	19	1.875E-08	7.125E-08	3200
118.0	0.8	43	4.159E-08	1.580E-07	3200
118.0	3.1	86	4.456E-08	1.693E-07	3200
118.0	6.2	50	4.889E-08	1.827E-07	3200
118.0	9.3	53	5.050E-08	1.919E-07	3200
118.0	12.4	64	6.145E-08	2.335E-07	3200
118.0	15.5	56	5.347E-08	2.032E-07	3200
118.0	18.6	62	5.941E-08	2.257E-07	3200
118.0	21.7	65	6.238E-08	2.379E-07	3200
118.0	24.8	62	5.941E-08	2.257E-07	3200
118.0	31.0	67	6.388E-08	2.427E-07	3200
118.0	37.2	64	6.145E-08	2.335E-07	3200
118.0	43.4	8	8.317E-09	3.160E-08	3200
118.0	49.6	7	6.832E-09	2.596E-08	3200

SECONDARY SERIES EXPERIMENT: MT-3
ZINC SULFIDE AND FLUOROSCEIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT MT-3. ZINC SULFIDE RESULTS ARE PRESENTED HERE. GROUND
LEVEL AND TOWER SAMPLING 200-3200 M ARCS. A SIGNIFICANT PORTION
OF THE PLUME PASSED TO THE NORTH OF THE GRID.

TEST MT3 JUNE 12, 1964 0343 TO 0404 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 1.1 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
68.0	13208	6.604E-06	7.265E-06	200
70.0	108771	5.439E-05	5.982E-05	200
72.0	325531	1.628E-04	1.790E-04	200
74.0	474730	2.374E-04	2.611E-04	200
76.0	613419	3.067E-04	3.374E-04	200
78.0	954457	4.772E-04	5.250E-04	200
80.0	1141899	5.709E-04	6.280E-04	200
82.0	1359385	6.797E-04	7.477E-04	200
84.0	1544121	7.721E-04	8.493E-04	200
86.0	1590488	7.952E-04	8.748E-04	200
88.0	1291087	6.455E-04	7.101E-04	200
90.0	1441063	7.205E-04	7.926E-04	200
92.0	1222981	6.115E-04	6.726E-04	200
94.0	1141384	5.707E-04	6.278E-04	200
96.0	608859	3.044E-04	3.349E-04	200
98.0	327641	1.638E-04	1.802E-04	200
100.0	86746	4.337E-05	4.771E-05	200
102.0	32605	1.630E-05	1.793E-05	200
104.0	13551	6.776E-06	7.454E-06	200
106.0	9776	4.888E-06	5.377E-06	200
108.0	5512	2.756E-06	3.032E-06	200
110.0	400	2.002E-07	2.203E-07	200
112.0	232	1.161E-07	1.277E-07	200
114.0	37	1.851E-08	2.036E-08	200
116.0	151	7.572E-08	8.329E-08	200
118.0	53	2.692E-08	2.961E-08	200
120.0	74	3.702E-08	4.072E-08	200
122.0	87	4.375E-08	4.812E-08	200
124.0	53	2.692E-08	2.961E-08	200
126.0	97	4.880E-08	5.368E-08	200
128.0	326	1.632E-07	1.795E-07	200

CROSSWIND INTEGRATED= 4.995E-02 5.494E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST MT3 JUNE 12, 1964 0343 TO 0404 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 1.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.3	156902	7.845E-05	8.630E-05	200
98.0	0.7	211714	1.059E-04	1.164E-04	200
98.0	1.4	211351	1.057E-04	1.162E-04	200
98.0	2.7	694491	3.242E-04	3.567E-04	200
98.0	4.1	1200707	6.000E-04	6.604E-04	200
98.0	5.4	1407415	7.037E-04	7.741E-04	200
98.0	6.8	1512005	7.560E-04	8.316E-04	200
98.0	8.1	1270124	6.351E-04	6.986E-04	200
98.0	9.4	732100	3.661E-04	4.027E-04	200
98.0	10.8	578907	2.894E-04	3.184E-04	200
98.0	13.5	159405	7.970E-05	8.767E-05	200
98.0	16.2	22926	1.146E-05	1.261E-05	200
98.0	18.9	2402	1.221E-06	1.343E-06	200
98.0	21.6	464	2.321E-07	2.553E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.3	3734	1.867E-06	2.054E-06	200
106.0	0.7	4173	2.087E-06	2.295E-06	200
106.0	1.4	5596	2.798E-06	3.078E-06	200
106.0	2.7	19727	9.864E-06	1.085E-05	200
106.0	4.1	76677	3.834E-05	4.217E-05	200
106.0	5.4	203461	1.017E-04	1.119E-04	200
106.0	6.8	407883	2.039E-04	2.203E-04	200
106.0	8.1	601695	3.008E-04	3.309E-04	200
106.0	9.4	665699	3.328E-04	3.661E-04	200
106.0	10.8	636815	3.184E-04	3.502E-04	200
106.0	13.5	329900	1.650E-04	1.814E-04	200
106.0	16.2	124942	6.247E-05	6.872E-05	200
106.0	18.9	47165	2.358E-05	2.594E-05	200
106.0	21.6	166000	8.300E-05	9.130E-05	200
106.0	24.3	2985	1.493E-06	1.642E-06	200
106.0	27.0	1223	6.119E-07	6.731E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.3	47	3.357E-08	3.693E-08	200
114.0	0.7	31	1.590E-08	1.749E-08	200
114.0	1.4	69	3.475E-08	3.822E-08	200
114.0	2.7	176	9.811E-08	9.692E-08	200
114.0	4.1	253	1.266E-07	1.392E-07	200
114.0	5.4	752	3.760E-07	4.136E-07	200
114.0	6.8	1947	7.235E-07	7.959E-07	200
114.0	8.1	4710	2.355E-06	2.591E-06	200
114.0	9.4	11779	5.890E-06	6.479E-06	200
114.0	10.8	15090	7.540E-06	8.294E-06	200
114.0	13.5	8620	4.310E-06	4.741E-06	200
114.0	16.2	4641	2.321E-06	2.553E-06	200
114.0	18.9	1935	5.175E-07	5.693E-07	200
114.0	21.6	789	3.945E-07	4.340E-07	200
114.0	24.3				200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
122.0	0.3	173	8.657E-08	9.523E-08	200
122.0	0.7	53	2.650E-08	2.915E-08	200
122.0	1.4	39	1.986E-08	2.184E-08	200
122.0	2.7	210	1.055E-07	1.160E-07	200
122.0	4.1	104	5.212E-08	5.733E-08	200
122.0	5.4	119	5.957E-08	6.553E-08	200
122.0	6.8	156	7.818E-08	8.600E-08	200
122.0	8.1	114	5.833E-08	6.416E-08	200
122.0	10.8	64	3.227E-08	3.549E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
130.0	10.8	27	1.365E-08	1.502E-08	200

TEST #13 JUNE 12, 1964 0343 TO 0404 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
600M ARC SAMPLER HT 1.5M W= 1.1 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
70.0	33560	1.678E-05	1.846E-05	800
72.0	65935	3.297E-05	3.626E-05	800
74.0	87778	4.389E-05	4.828E-05	800
76.0	120101	6.405E-05	7.046E-05	800
78.0	155602	7.780E-05	8.558E-05	800
80.0	167347	8.367E-05	9.204E-05	800
82.0	213279	1.066E-04	1.173E-04	800
84.0	251193	1.256E-04	1.382E-04	800
86.0	267304	1.337E-04	1.470E-04	800
88.0	264774	1.324E-04	1.456E-04	800
90.0	281822	1.409E-04	1.550E-04	800
92.0	242554	1.213E-04	1.334E-04	800
94.0	195574	9.779E-05	1.076E-04	800
96.0	178043	8.904E-05	9.795E-05	800
98.0	143444	7.172E-05	7.889E-05	800
100.0	80122	4.006E-05	4.407E-05	800
102.0	37533	1.877E-05	2.064E-05	800
104.0	10390	5.195E-06	5.715E-06	800
106.0	1975	9.880E-07	1.087E-06	800
108.0	380	1.904E-07	2.095E-07	800
110.0	110	5.534E-08	6.087E-08	800
112.0	35	1.790E-08	1.969E-08	800

CROSSWIND INTEGRATED= 3.919E-02 SEC/SQ.M
4.311E-02 1/M

TOXER DATA FOLLOW.....

TEST #13 JUNE 12, 1964 0343 TO 0404 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
600M ARC W= 1.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
58.0	0.3	103330	5.167E-05	5.683E-05	800
58.0	0.5	110901	5.545E-05	6.100E-05	800
58.0	1.0	91906	4.595E-05	5.055E-05	800
58.0	2.1	108823	5.441E-05	5.985E-05	800
58.0	4.2	156153	7.800E-05	8.588E-05	800
58.0	6.3	157437	7.872E-05	8.659E-05	800
58.0	8.4	133116	6.656E-05	7.321E-05	800
58.0	10.5	110797	5.540E-05	6.094E-05	800
58.0	12.6	70586	3.529E-05	3.882E-05	800
58.0	14.7	41732	2.087E-05	2.295E-05	800
58.0	16.8	26297	1.315E-05	1.446E-05	800
58.0	21.0	9029	4.515E-06	4.966E-06	800
58.0	25.2	1580	7.945E-07	8.740E-07	800
58.0	29.4	84	4.222E-08	4.644E-08	800
58.0	33.6	43	2.195E-08	2.415E-08	800

AZIMUTH HEIGHT EXPOSURE E/O EU/O DISTANCE
DEGREES METERS GM-SEC/CM² SEC/CM² 1/SQ.M METERS
X10E+6

106.0	0.3	841	4.409E-07	4.850E-07	800
106.0	0.5	1339	6.649E-07	7.369E-07	800
106.0	1.0	507	2.737E-07	3.011E-07	800
106.0	2.1	1411	7.059E-07	7.765E-07	800
106.0	4.2	6518	3.259E-06	3.585E-06	800
106.0	6.3	17302	9.691E-06	9.560E-06	800
106.0	8.4	34971	1.749E-05	1.923E-05	800
106.0	10.5	55333	2.767E-05	3.043E-05	800
106.0	12.6	62968	3.146E-05	3.463E-05	800
106.0	14.7	69748	3.487E-05	3.836E-05	800
106.0	16.8	59849	2.993E-05	3.292E-05	800
106.0	21.0	32981	1.649E-05	1.814E-05	800
106.0	25.2	10525	5.263E-06	5.789E-06	800
106.0	29.4	4117	2.059E-06	2.264E-06	800
106.0	33.6	1185	5.927E-07	6.520E-07	800
106.0	37.8	500	2.702E-07	2.972E-07	800
106.0	42.0	100	4.055E-08	4.938E-08	800

AZIMUTH HEIGHT EXPOSURE E/O EU/O DISTANCE
DEGREES METERS GM-SEC/CM² SEC/CM² 1/SQ.M METERS
X10E+6

114.0	4.2	84	4.322E-08	4.754E-08	800
114.0	6.3	28	1.441E-08	1.585E-08	800
114.0	8.4	31	1.561E-08	1.717E-08	800
114.0	10.5	388	1.945E-07	2.139E-07	800
114.0	12.6	136	6.843E-08	7.527E-08	800
114.0	14.7	319	1.597E-07	1.756E-07	800
114.0	16.8	303	1.969E-07	2.166E-07	800
114.0	21.0	1908	9.544E-07	1.050E-06	800
114.0	25.2	2110	1.055E-06	1.161E-06	800
114.0	29.4	1545	7.726E-07	8.498E-07	800
114.0	33.6	672	3.361E-07	3.697E-07	800
114.0	37.8	395	1.976E-07	2.173E-07	800
114.0	42.0	822	2.415E-07	2.656E-07	800

AZIMUTH HEIGHT EXPOSURE E/O EU/O DISTANCE
DEGREES METERS GM-SEC/CM² SEC/CM² 1/SQ.M METERS
X10E+6

122.0	4.2	69	3.481E-08	3.829E-08	800
122.0	6.3	50	2.521E-08	2.773E-08	800

TOWER DATA FOLLOW....

TEST MT3 JUNE 12, 1964 0343 TO 0404 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 1.1 M/SEC AT 2M

TEST MT3 JUNE 12, 1964 0343 TO 0404 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC U= 1.1 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. X10E+6	E/G SEC/CM. X10E+6	EU/G 1/SQ.M	DISTANCE METERS
70.0	5920	2.960E-06	3.256E-06	1600
71.0	8904	4.452E-06	4.898E-06	1600
72.0	12889	6.405E-06	7.089E-06	1600
73.0	13748	6.874E-06	7.561E-06	1600
74.0	19684	9.842E-06	1.083E-05	1600
75.0	25750	1.288E-05	1.416E-05	1600
76.0	28910	1.446E-05	1.590E-05	1600
77.0	34056	1.703E-05	1.873E-05	1600
78.0	37843	1.892E-05	2.081E-05	1600
79.0	38691	1.935E-05	2.128E-05	1600
80.0	45007	2.250E-05	2.475E-05	1600
81.0	50630	2.532E-05	2.785E-05	1600
82.0	54260	2.713E-05	2.984E-05	1600
83.0	55591	2.780E-05	3.058E-05	1600
84.0	53820	2.691E-05	2.960E-05	1600
85.0	54661	2.733E-05	3.006E-05	1600
86.0	56018	2.801E-05	3.081E-05	1600
87.0	52182	2.609E-05	2.870E-05	1600
88.0	51755	2.588E-05	2.847E-05	1600
89.0	44532	2.427E-05	2.669E-05	1600
90.0	51901	2.595E-05	2.855E-05	1600
91.0	47656	2.3A3E-05	2.621E-05	1600
92.0	42257	2.113E-05	2.324E-05	1600
93.0	39971	1.949E-05	2.198E-05	1600
94.0	38659	1.943E-05	2.137E-05	1600
95.0	36459	1.823E-05	2.005E-05	1600
96.0	33747	1.6A7E-05	1.856E-05	1600
97.0	25819	1.291E-05	1.420E-05	1600
98.0	23136	1.157E-05	1.272E-05	1600
99.0	17627	8.814E-06	9.695E-06	1600
100.0	11163	5.5A2E-06	6.140E-06	1600
101.0	5862	2.931E-06	3.225E-06	1600
102.0	3793	1.897E-06	2.086E-06	1600
103.0	2647	1.324E-06	1.456E-06	1600
104.0	2103	1.052E-06	1.157E-06	1600
105.0	1120	5.643E-07	6.163E-07	1600
106.0	663	3.317E-07	3.648E-07	1600
107.0	412	2.061E-07	2.267E-07	1600
108.0	152	7.621E-08	8.383E-08	1600
109.0	148	7.406E-08	8.147E-08	1600
110.0	45	2.254E-08	2.488E-08	1600
111.0	34	1.717E-08	1.889E-08	1600
112.0	4	2.147E-09	2.361E-09	1600
113.0	51	2.576E-08	2.834E-08	1600
114.0	19	9.661E-09	1.063E-08	1600

CROSSWIND INTEGRATED= 1.584E-02 1.742E-02
SEC/SQ.M 1/M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/G SEC/CM. X10E+6	EU/G 1/SQ.M	DISTANCE METERS
98.0	0.2	19399	9.700E-06	1.067E-05	1600
98.0	0.4	20612	1.001E-05	1.101E-05	1600
98.0	0.8	21846	1.082E-05	1.191E-05	1600
98.0	1.5	21227	1.061E-05	1.167E-05	1600
98.0	3.1	24761	1.238E-05	1.362E-05	1600
98.0	6.2	38693	1.935E-05	2.128E-05	1600
98.0	9.3	40008	2.000E-05	2.200E-05	1600
98.0	12.4	26874	1.344E-05	1.478E-05	1600
98.0	15.5	19121	9.5A1E-06	1.052E-05	1600
98.0	18.6	10127	5.664E-06	5.570E-06	1600
98.0	21.7	5229	2.615E-06	2.876E-06	1600
98.0	24.8	1774	8.871E-07	9.758E-07	1600
98.0	31.0	289	1.446E-07	1.590E-07	1600
98.0	37.2	16	8.144E-09	8.959E-09	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/G SEC/CM. X10E+6	EU/G 1/SQ.M	DISTANCE METERS
106.0	0.2	453	2.265E-07	2.492E-07	1600
106.0	0.4	371	1.860E-07	2.046E-07	1600
106.0	0.8	511	2.558E-07	2.814E-07	1600
106.0	1.5	336	1.685E-07	1.853E-07	1600
106.0	3.1	1038	5.191E-07	5.710E-07	1600
106.0	6.2	3198	1.599E-06	1.759E-06	1600
106.0	9.3	8558	4.279E-06	4.707E-06	1600
106.0	12.4	14516	7.258E-06	7.984E-06	1600
106.0	15.5	21139	1.057E-05	1.163E-05	1600
106.0	18.6	15627	7.814E-06	8.595E-06	1600
106.0	21.7	16138	8.065E-06	8.876E-06	1600
106.0	24.8	8524	4.262E-06	4.688E-06	1600
106.0	31.0	1893	9.468E-07	1.041E-06	1600
106.0	37.2	677	3.387E-07	3.725E-07	1600
106.0	43.4	84	4.208E-08	4.629E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/G SEC/CM. X10E+6	EU/G 1/SQ.M	DISTANCE METERS
114.0	6.2	38	1.923E-08	2.115E-08	1600
114.0	9.3	124	6.226E-08	6.848E-08	1600
114.0	12.4	199	9.979E-08	1.098E-07	1600
114.0	15.5	342	1.712E-07	1.883E-07	1600
114.0	18.6	633	3.168E-07	3.484E-07	1600
114.0	21.7	1148	5.740E-07	6.314E-07	1600
114.0	24.8	1440	7.201E-07	7.921E-07	1600
114.0	31.0	2242	1.121E-06	1.233E-06	1600
114.0	37.2	1438	7.194E-07	7.914E-07	1600
114.0	43.4	689	3.448E-07	3.793E-07	1600
114.0	49.6	171	8.600E-08	9.460E-08	1600
114.0	55.8	10	5.489E-09	6.038E-09	1600
114.0	62.0	23	1.156E-08	1.275E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/G SEC/CM. X10E+6	EU/G 1/SQ.M	DISTANCE METERS
122.0	3.1	34	1.739E-08	1.913E-08	1600
122.0	6.2	34	1.739E-08	1.913E-08	1600
122.0	9.3	16	8.240E-09	9.064E-09	1600
122.0	15.5	40	2.014E-08	2.216E-08	1600

TEST #13 JUNE 12, 1964 0303 TO 0404 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200N ARC SAMPLER HT 1.5M U= 1.1 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	F/O SEC/CM	FU/O 1/SQ.M	DISTANCE METERS
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71.0	298	1.493E-07	1.643E-07	3200
72.0	458	2.294E-07	2.523E-07	3200
73.0	884	4.424E-07	4.867E-07	3200
74.0	1814	9.073E-07	9.980E-07	3200
75.0	2578	1.289E-06	1.418E-06	3200
76.0	2983	1.472E-06	1.619E-06	3200
77.0	4192	2.098E-06	2.306E-06	3200
78.0	6107	3.054E-06	3.359E-06	3200
79.0	5983	2.992E-06	3.291E-06	3200
80.0	6361	3.181E-06	3.499E-06	3200
81.0	7922	3.961E-06	4.358E-06	3200
82.0	8360	4.180E-06	4.598E-06	3200
83.0	8092	4.046E-06	4.451E-06	3200
84.0	9766	4.883E-06	5.371E-06	3200
85.0	10262	5.131E-06	5.644E-06	3200
86.0	11237	5.619E-06	6.180E-06	3200
87.0	37	1.886E-08	2.075E-08	3200
88.0	11617	5.809E-06	6.390E-06	3200
89.0	10545	5.273E-06	5.800E-06	3200
90.0	9739	4.870E-06	5.357E-06	3200
91.0	10267	5.134E-06	5.647E-06	3200
92.0	11121	5.561E-06	6.117E-06	3200
93.0	9461	4.731E-06	5.204E-06	3200
94.0	10050	5.025E-06	5.528E-06	3200
95.0	9475	4.718E-06	5.212E-06	3200
96.0	6359	3.180E-06	3.498E-06	3200
97.0	7097	3.549E-06	3.903E-06	3200
98.0	5769	2.885E-06	3.173E-06	3200
99.0	5688	2.844E-06	3.129E-06	3200
100.0	4965	2.443E-06	2.731E-06	3200
101.0	3013	1.567E-06	1.657E-06	3200
102.0	3743	1.872E-06	2.059E-06	3200
103.0	2397	1.199E-06	1.319E-06	3200
104.0	964	4.822E-07	5.304E-07	3200
105.0	620	3.104E-07	3.415E-07	3200
106.0	618	3.094E-07	3.403E-07	3200
107.0	451	2.258E-07	2.484E-07	3200
108.0	293	1.468E-07	1.615E-07	3200
109.0	163	8.155E-08	8.971E-08	3200
110.0	94	4.740E-08	5.214E-08	3200
111.0	93	4.689E-08	5.158E-08	3200
112.0	20	1.019E-08	1.121E-08	3200

CROSSWIND INTEGRATED= 5.918E-03 SEC/SQ.M
1/M

TOPEX DATA FOLLOW... .

TEST #13 JUNE 12, 1964 0303 TO 0404 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200N ARC U= 1.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/O SEC/CM	FU/O 1/SQ.M	DISTANCE METERS
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98.0	0.2	6061	3.031E-06	3.334E-06	3200
98.0	0.4	6711	3.356E-06	3.692E-06	3200
98.0	0.8	7399	3.706E-06	4.070E-06	3200
98.0	1.5	5404	2.722E-06	2.995E-06	3200
98.0	3.1	7309	3.655E-06	4.020E-06	3200
98.0	6.2	9038	4.519E-06	4.971E-06	3200
98.0	9.3	8581	4.291E-06	4.720E-06	3200
98.0	12.4	8572	4.286E-06	4.715E-06	3200
98.0	15.5	6813	3.407E-06	3.747E-06	3200
98.0	18.6	4539	2.270E-06	2.497E-06	3200
98.0	21.7	3383	1.692E-06	1.861E-06	3200
98.0	24.8	2004	1.002E-06	1.102E-06	3200
98.0	31.0	807	4.036E-07	4.440E-07	3200
98.0	37.2	281	1.407E-07	1.547E-07	3200
98.0	43.4	60	3.017E-08	3.319E-08	3200
98.0	49.6	35	1.753E-08	1.928E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/O SEC/CM	FU/O 1/SQ.M	DISTANCE METERS
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106.0	0.2	621	3.109E-07	3.420E-07	3200
106.0	0.4	440	2.202E-07	2.422E-07	3200
106.0	0.8	569	2.849E-07	3.134E-07	3200
106.0	1.5	702	3.512E-07	3.864E-07	3200
106.0	3.1	944	4.824E-07	5.306E-07	3200
106.0	6.2	180	9.036E-08	9.939E-08	3200
106.0	9.3	1910	9.555E-07	1.051E-06	3200
106.0	12.4	2541	1.271E-06	1.398E-06	3200
106.0	15.5	3425	1.713E-06	1.884E-06	3200
106.0	18.6	3667	1.984E-06	2.182E-06	3200
106.0	21.7	3855	1.930E-06	2.123E-06	3200
106.0	24.8	3914	1.957E-06	2.153E-06	3200
106.0	31.0	2786	1.393E-06	1.533E-06	3200
106.0	37.2	1638	8.195E-07	9.014E-07	3200
106.0	43.4	449	2.246E-07	2.471E-07	3200
106.0	49.6	180	9.031E-08	9.934E-08	3200
106.0	55.8	103	5.182E-08	5.760E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/O SEC/CM	FU/O 1/SQ.M	DISTANCE METERS
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114.0	6.2	39	1.992E-08	2.192E-08	3200
114.0	9.3	30	1.526E-08	1.682E-08	3200
114.0	12.4	63	2.688E-08	2.956E-08	3200
114.0	15.5	58	2.919E-08	3.211E-08	3200
114.0	18.6	95	4.773E-08	5.250E-08	3200
114.0	21.7	127	6.395E-08	7.034E-08	3200
114.0	24.8	139	6.972E-08	7.669E-08	3200
114.0	31.0	344	1.729E-07	1.897E-07	3200
114.0	37.2	388	1.941E-07	2.135E-07	3200
114.0	43.4	605	3.025E-07	3.328E-07	3200
114.0	49.6	605	3.025E-07	3.328E-07	3200
114.0	55.8	465	2.328E-07	2.561E-07	3200
114.0	62.0	557	2.789E-07	3.068E-07	3200

SECONDARY SERIES EXPERIMENT: MT-3F
ZINC SULFIDE AND FLUORESCIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT MT-3. FLUORESCIN RESULTS ARE PRESENTED HERE. GROUND
LEVEL AND TOWER SAMPLING 200-3200 M ARCS. A SIGNIFICANT PORTION
OF THE PLUME PASSED TO THE NORTH OF THE GRID.

TEST MT3F JUNE 12, 1964 0343 TO 0404 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
200M ARC 34°E/ER OF 1.5" U= 1.1 M/SEC AT 2M

AZIMUTH EXPOSURE F/D FU/D DISTANCE
DEGREES GM-SEC/CU.M SEC/CU.M 1/SG.M METERS
X10E+6

68.0	4797	6.394E-06	7.036E-06	200
70.0	39574	5.279E-05	5.807E-05	200
72.0	114918	1.526E-04	1.744E-04	200
74.0	172472	2.306E-04	2.537E-04	200
76.0	244648	3.415E-04	3.647E-04	200
78.0	383783	5.117E-04	5.629E-04	200
80.0	432432	5.766E-04	6.342E-04	200
82.0	513513	6.847E-04	7.532E-04	200
84.0	524324	6.991E-04	7.690E-04	200
86.0	594107	6.775E-04	7.452E-04	200
88.0	464864	6.198E-04	6.818E-04	200
90.0	378378	5.045E-04	5.550E-04	200
92.0	302702	4.036E-04	4.440E-04	200
94.0	254459	3.459E-04	3.805E-04	200
96.0	136486	1.820E-04	2.002E-04	200
98.0	79270	9.369E-05	1.031E-04	200
100.0	18918	2.523E-05	2.775E-05	200
102.0	6891	9.189E-06	1.011E-05	200
104.0	3691	5.189E-06	5.748E-06	200
106.0	2702	3.604E-06	3.964E-06	200
108.0	2702	3.604E-06	3.964E-06	200
110.0	197	2.631E-07	2.894E-07	200
112.0	5	7.351E-09	8.086E-09	200
114.0	5	7.351E-09	8.086E-09	200
116.0	7	1.027E-08	1.130E-08	200
118.0	9	1.261E-08	1.387E-08	200
120.0	4	5.405E-09	5.946E-09	200
122.0	797	1.063E-06	1.149E-06	200
124.0	248	3.315E-07	3.647E-07	200
126.0	148	1.982E-07	2.180E-07	200

CROSSHAIR INTEGRATED= 4.278E-02 4.706E-02
SEC/SG.M 1/M

TOWER DATA FOLLOW...

TEST MT3F JUNE 12, 1964 0343 TO 0404 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
200M ARC U= 1.1 M/SEC AT 2M

AZIMUTH HEIGHT EXPOSURE F/D FU/D DISTANCE
DEGREES METERS GM-SEC/CU.M SEC/CU.M 1/SG.M METERS
X10E+6

98.0	0.3	27837	3.712E-05	4.083E-05	200
98.0	0.7	30810	4.108E-05	4.519E-05	200
98.0	2.7	154053	2.050E-04	2.259E-04	200
98.0	4.1	432932	5.766E-04	6.342E-04	200
98.0	5.4	610810	8.140E-04	8.959E-04	200
98.0	6.8	621621	8.288E-04	9.117E-04	200
98.0	8.1	513513	6.847E-04	7.532E-04	200
98.0	9.4	324324	4.324E-04	4.757E-04	200
98.0	10.8	218918	2.914E-04	3.211E-04	200
98.0	16.2	11081	1.477E-05	1.625E-05	200
98.0	18.9	27837	3.712E-05	4.083E-05	200
98.0	21.6	1189	1.586E-06	1.744E-06	200
98.0	24.3	178	2.378E-07	2.616E-07	200
98.0	27.0	121	1.622E-07	1.784E-07	200

AZIMUTH HEIGHT EXPOSURE F/D FU/D DISTANCE
DEGREES METERS GM-SEC/CU.M SEC/CU.M 1/SG.M METERS
X10E+6

106.0	0.3	1648	2.198E-06	2.418E-06	200
106.0	0.7	1648	2.198E-06	2.418E-06	200
106.0	1.4	2648	3.532E-06	3.885E-06	200
106.0	2.7	6162	8.216E-06	9.038E-06	200
106.0	4.1	20810	2.775E-05	3.052E-05	200
106.0	5.4	45675	6.090E-05	6.699E-05	200
106.0	6.8	99999	1.333E-04	1.467E-04	200
106.0	8.1	152702	2.036E-04	2.240E-04	200
106.0	9.4	194594	2.595E-04	2.854E-04	200
106.0	10.8	178378	2.378E-04	2.616E-04	200
106.0	13.5	108108	1.441E-04	1.586E-04	200
106.0	16.2	56756	7.568E-05	8.324E-05	200
106.0	18.9	29729	3.964E-05	4.360E-05	200
106.0	21.6	11081	1.477E-05	1.625E-05	200
106.0	24.3	3243	4.324E-06	4.757E-06	200
106.0	27.0	1243	1.712E-06	1.883E-06	200

AZIMUTH HEIGHT EXPOSURE F/D FU/D DISTANCE
DEGREES METERS GM-SEC/CU.M SEC/CU.M 1/SG.M METERS
X10E+6

114.0	0.3	5	7.568E-09	8.324E-09	200
114.0	0.7	6	8.820E-09	9.712E-09	200
114.0	1.4	7	1.027E-08	1.130E-08	200
114.0	2.7	39	5.225E-09	5.748E-09	200
114.0	4.1	35	4.686E-09	5.153E-09	200
114.0	5.4	47	6.306E-09	6.937E-09	200
114.0	6.8	281	3.748E-07	4.123E-07	200
114.0	8.1	329	4.394E-07	4.836E-07	200
114.0	9.4	637	8.505E-07	9.355E-07	200
114.0	10.8	1277	1.703E-06	1.873E-06	200
114.0	13.5	1493	1.991E-06	2.190E-06	200
114.0	16.2	1114	1.486E-06	1.635E-06	200
114.0	18.9	1114	1.486E-06	1.635E-06	200
114.0	21.6	488	5.982E-07	6.580E-07	200
114.0	24.3	221	2.955E-07	3.250E-07	200
114.0	27.0	24	3.243E-08	3.568E-08	200

AZIMUTH HEIGHT EXPOSURE F/D FU/D DISTANCE
DEGREES METERS GM-SEC/CU.M SEC/CU.M 1/SG.M METERS
X10E+6

122.0	0.3	297	3.964E-07	4.360E-07	200
122.0	0.7	445	5.944E-07	6.541E-07	200
122.0	1.4	567	7.568E-07	8.324E-07	200
122.0	2.7	682	9.099E-07	1.001E-06	200
122.0	4.1	329	4.394E-07	4.836E-07	200
122.0	5.4	108	1.982E-07	2.180E-07	200
122.0	6.8	41	1.081E-07	1.189E-07	200
122.0	8.1	40	5.405E-08	5.946E-08	200
122.0	9.4	77	1.027E-07	1.130E-07	200
122.0	10.8	27	3.406E-08	4.004E-08	200
122.0	13.5	43	5.766E-08	6.342E-08	200
122.0	16.2	15	2.090E-08	2.299E-08	200
122.0	18.9	15	2.054E-08	2.259E-08	200
122.0	21.6	19	2.667E-08	2.933E-08	200
122.0	24.3	14	1.946E-08	2.141E-08	200
122.0	27.0	16	2.230E-08	2.458E-08	200

TEST NT34 JUNE 12, 1964 0343 TO 0404 PST
 FLUORESCENT RELEASE FROM ELEVATION OF 2M
 ROOM A-C SAMPLER HT 1.5M U= 1.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SEC	DISTANCE METERS
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70.0	125.0	1.673E-05	1.841E-05	800	
72.0	224.3	2.798E-05	3.298E-05	800	
74.0	329.4	4.392E-05	4.831E-05	800	
76.0	470.5	6.275E-05	6.902E-05	800	
78.0	446.7	6.623E-05	7.285E-05	800	
80.0	679.7	9.063E-05	9.969E-05	800	
82.0	745.0	9.935E-05	1.093E-04	800	
84.0	967.3	1.290E-04	1.419E-04	800	
86.0	797.3	1.063E-04	1.169E-04	800	
88.0	797.3	1.063E-04	1.169E-04	800	
90.0	836.6	1.115E-04	1.227E-04	800	
92.0	606.5	8.027E-05	8.896E-05	800	
94.0	535.4	7.146E-05	7.861E-05	800	
96.0	460.1	6.133E-05	6.749E-05	800	
98.0	318.5	4.253E-05	4.678E-05	800	
100.0	162.0	2.161E-05	2.377E-05	800	
102.0	74.5	9.935E-06	1.093E-05	800	
104.0	21.3	2.858E-06	3.144E-06	800	
106.0	4.4	6.065E-07	6.672E-07	800	
108.0	2.7	3.033E-07	3.336E-07	800	
110.0	1.25	1.673E-07	1.841E-07	800	
112.0	1.54	2.057E-07	2.262E-07	800	
114.0	1.17	1.569E-07	1.725E-07	800	
116.0	33	4.532E-08	4.985E-08	800	
118.0	9	1.200E-08	1.319E-08	800	
120.0	10	1.464E-08	1.610E-08	800	

CROSSWIND INTEGRATED= 3.225E-02 3.548E-02
 SEC/SQ.M 1/M

TOWER DATA FOLLOW...

TEST NT34 JUNE 12, 1964 0343 TO 0404 PST
 FLUORESCENT RELEASE FROM ELEVATION OF 2M
 ROOM A-C U= 1.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SEC	DISTANCE METERS
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98.0	0.3	2.9575	3.277E-05	3.604E-05	800
98.0	0.5	2.9575	3.277E-05	3.604E-05	800
98.0	2.1	35616	4.776E-05	5.253E-05	800
98.0	4.2	50126	6.693E-05	7.362E-05	800
98.0	6.3	60515	8.122E-05	8.934E-05	800
98.0	8.4	53071	7.076E-05	7.784E-05	800
98.0	10.5	41307	5.508E-05	6.058E-05	800
98.0	12.6	31825	4.253E-05	4.678E-05	800
98.0	14.7	19623	2.510E-05	2.761E-05	800
98.0	21.0	3843	5.124E-06	5.637E-06	800
98.0	25.2	888	1.185E-06	1.304E-06	800
98.0	29.4	91	1.220E-07	1.342E-07	800
98.0	33.6	45	6.100E-08	6.710E-08	800
98.0	37.8	17	2.301E-08	2.531E-08	800
98.0	42.0	13	1.743E-08	1.917E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SEC	DISTANCE METERS
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106.0	0.3	266	3.556E-07	3.911E-07	800
106.0	0.5	428	5.717E-07	6.288E-07	800
106.0	1.0	371	4.950E-07	5.445E-07	800
106.0	2.1	732	9.760E-07	1.070E-06	800
106.0	4.2	1699	2.266E-06	2.492E-06	800
106.0	6.3	3450	4.601E-06	5.061E-06	800
106.0	8.4	10065	1.342E-05	1.476E-05	800
106.0	10.5	15947	2.126E-05	2.339E-05	800
106.0	12.6	18823	2.510E-05	2.761E-05	800
106.0	14.7	20392	2.710E-05	2.941E-05	800
106.0	16.8	21960	2.928E-05	3.221E-05	800
106.0	21.0	17254	2.301E-05	2.531E-05	800
106.0	25.2	9104	1.081E-05	1.189E-05	800
106.0	29.4	2875	3.830E-06	4.218E-06	800
106.0	33.6	943	1.325E-06	1.457E-06	800
106.0	37.8	345	4.601E-07	5.061E-07	800
106.0	42.0	99	1.325E-07	1.457E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SEC	DISTANCE METERS
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114.0	0.3	73	9.760E-08	1.070E-07	800
114.0	0.5	112	1.499E-07	1.649E-07	800
114.0	1.0	122	1.639E-07	1.802E-07	800
114.0	2.1	112	1.499E-07	1.649E-07	800
114.0	4.2	164	2.196E-07	2.416E-07	800
114.0	6.3	40	5.368E-08	5.905E-08	800
114.0	8.4	30	4.009E-08	4.410E-08	800
114.0	10.5	31	4.183E-08	4.601E-08	800
114.0	12.6	40	5.368E-08	5.905E-08	800
114.0	14.7	109	1.464E-07	1.610E-07	800
114.0	16.8	116	1.551E-07	1.706E-07	800
114.0	21.0	449	5.996E-07	6.595E-07	800
114.0	25.2	928	1.237E-06	1.361E-06	800
114.0	29.4	640	8.540E-07	9.394E-07	800
114.0	33.6	462	6.170E-07	6.787E-07	800
114.0	37.8	256	3.416E-07	3.758E-07	800
114.0	42.0	397	5.298E-07	5.828E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SEC	DISTANCE METERS
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122.0	0.3	25	3.346E-08	3.681E-08	800
122.0	0.5	21	2.928E-08	3.221E-08	800
122.0	1.0	28	3.765E-08	4.141E-08	800
122.0	2.1	18	2.448E-08	2.684E-08	800
122.0	4.2	13	1.830E-08	2.013E-08	800
122.0	6.3	18	2.405E-08	2.646E-08	800
122.0	8.4	1	1.603E-09	1.764E-09	800
122.0	10.5	3	4.078E-09	4.486E-09	800
122.0	12.6	3	5.054E-09	5.560E-09	800
122.0	14.7	5	6.726E-09	7.400E-09	800
122.0	16.8	9	1.237E-08	1.361E-08	800
122.0	21.0	7	9.760E-09	1.070E-08	800
122.0	25.2	36	4.915E-08	5.407E-08	800
122.0	29.4	5	7.146E-09	7.861E-09	800
122.0	33.6	47	6.275E-08	6.902E-08	800
122.0	37.8	47	6.344E-08	6.979E-08	800
122.0	42.0	5	7.320E-09	8.052E-09	800

TOWER DATA FOLLOW...

TEST #13F JUNE 12, 1964 0343 TO 0404 PST
FLUORESCENT RELEASE FROM ELEVATION OF 2M
1600Y AWC SAMPLER MT 1.5M U= 1.1 M/SEC AT 2M

TEST #13F JUNE 12, 1964 0343 TO 0404 PST
FLUORESCENT RELEASE FROM ELEVATION OF 2M
1600Y AWC SAMPLER MT 1.5M U= 1.1 M/SEC AT 2M

AZIMUTH EXPOSURE E/O FU/O DISTANCE
DEGREES METERS GM-SEC/CM SEC/CM 1/SEC METERS
X10E+6

70.0	2555	3.54E-06	3.894E-06	1600
71.0	3793	5.05E-06	5.563E-06	1600
72.0	5696	7.52E-06	8.25E-06	1600
73.0	6206	8.27E-06	9.103E-06	1600
74.0	8275	1.10E-05	1.214E-05	1600
75.0	11724	1.56E-05	1.720E-05	1600
76.0	13620	1.81E-05	1.998E-05	1600
77.0	16206	2.16E-05	2.377E-05	1600
78.0	19103	2.41E-05	2.655E-05	1600
79.0	19310	2.57E-05	2.832E-05	1600
80.0	21896	2.92E-05	3.211E-05	1600
81.0	24655	3.27E-05	3.616E-05	1600
82.0	27393	3.17E-05	3.490E-05	1600
83.0	25344	3.37E-05	3.717E-05	1600
84.0	24655	3.27E-05	3.616E-05	1600
85.0	24655	3.27E-05	3.616E-05	1600
86.0	22931	3.05E-05	3.363E-05	1600
87.0	22413	2.98E-05	3.287E-05	1600
88.0	20517	2.73E-05	3.009E-05	1600
89.0	18103	2.41E-05	2.655E-05	1600
90.0	20517	2.73E-05	3.009E-05	1600
91.0	17586	2.34E-05	2.579E-05	1600
92.0	13793	1.83E-05	2.023E-05	1600
93.0	13620	1.81E-05	1.998E-05	1600
94.0	12068	1.60E-05	1.770E-05	1600
95.0	11034	1.47E-05	1.618E-05	1600
96.0	10172	1.35E-05	1.492E-05	1600
97.0	7750	1.03E-05	1.138E-05	1600
98.0	5862	7.81E-06	8.598E-06	1600
99.0	4827	6.43E-06	7.080E-06	1600
100.0	2852	3.81E-06	4.198E-06	1600
101.0	2137	2.45E-06	3.136E-06	1600
102.0	1344	1.79E-06	1.972E-06	1600
103.0	896	1.14E-06	1.315E-06	1600
104.0	551	7.35E-07	8.092E-07	1600
105.0	413	5.51E-07	6.069E-07	1600
106.0	215	2.77E-07	3.161E-07	1600
107.0	139	1.26E-07	2.048E-07	1600
108.0	82	1.10E-07	1.214E-07	1600
109.0	54	7.81E-08	8.598E-08	1600
110.0	34	5.17E-08	5.690E-08	1600
111.0	22	2.99E-08	3.287E-08	1600
112.0	10	1.37E-08	1.517E-08	1600
113.0	14	1.95E-08	2.149E-08	1600
114.0	7	9.84E-09	1.087E-08	1600
115.0	1	2.02E-09	2.225E-09	1600

CROSS-TAIL INTEGRATION 1.71E-07 1.45E-02
SEC/SEC 1/SEC

AZIMUTH HEIGHT EXPOSURE E/O FU/O DISTANCE
DEGREES METERS GM-SEC/CM SEC/CM 1/SEC METERS
X10E+6

98.0	4.2	4068	5.425E-06	5.968E-06	1600
98.0	0.4	4741	6.322E-06	6.954E-06	1600
98.0	0.8	5403	7.471E-06	8.218E-06	1600
98.0	3.1	7068	9.425E-06	1.037E-05	1600
98.0	6.2	11551	1.540E-05	1.694E-05	1600
98.0	9.3	15172	2.023E-05	2.225E-05	1600
98.0	12.4	10172	1.354E-05	1.492E-05	1600
98.0	15.5	8189	1.092E-05	1.201E-05	1600
98.0	18.6	4206	5.609E-06	6.170E-06	1600
98.0	24.8	1068	1.425E-06	1.568E-06	1600
98.0	31.0	106	1.425E-07	1.568E-07	1600
98.0	37.2	14	1.950E-08	2.149E-08	1600
98.0	43.4	12	1.678E-08	1.846E-08	1600
98.0	49.6	12	1.609E-08	1.770E-08	1600
98.0	55.8	7	1.011E-08	1.113E-08	1600
98.0	62.0	6	9.080E-09	9.988E-09	1600

AZIMUTH HEIGHT EXPOSURE E/O FU/O DISTANCE
DEGREES METERS GM-SEC/CM SEC/CM 1/SEC METERS
X10E+6

106.0	0.2	167	2.230E-07	2.453E-07	1600
106.0	0.4	210	2.805E-07	3.085E-07	1600
106.0	0.8	182	2.437E-07	2.680E-07	1600
106.0	1.5	196	2.621E-07	2.863E-07	1600
106.0	3.1	362	4.828E-07	5.310E-07	1600
106.0	6.2	982	1.310E-06	1.441E-06	1600
106.0	9.3	2344	3.126E-06	3.439E-06	1600
106.0	12.4	3741	4.989E-06	5.407E-06	1600
106.0	15.5	5258	7.011E-06	7.713E-06	1600
106.0	18.6	4082	5.977E-06	6.575E-06	1600
106.0	21.7	5258	7.011E-06	7.713E-06	1600
106.0	24.8	3931	5.241E-06	5.764E-06	1600
106.0	31.0	741	9.849E-07	1.087E-06	1600
106.0	37.2	240	3.240E-07	3.591E-07	1600
106.0	43.4	20	2.736E-08	3.060E-08	1600

AZIMUTH HEIGHT EXPOSURE E/O FU/O DISTANCE
DEGREES METERS GM-SEC/CM SEC/CM 1/SEC METERS
X10E+6

114.0	3.1	9	1.24E-07	1.353E-08	1600
114.0	6.2	14	1.885E-08	2.079E-08	1600
114.0	9.3	48	5.977E-08	6.575E-08	1600
114.0	12.4	69	6.067E-08	7.333E-08	1600
114.0	15.5	166	1.954E-07	2.189E-07	1600
114.0	18.6	156	2.092E-07	2.301E-07	1600
114.0	21.7	327	4.360E-07	4.815E-07	1600
114.0	24.8	568	7.580E-07	8.345E-07	1600
114.0	31.0	696	1.195E-06	1.315E-06	1600
114.0	37.2	698	9.310E-07	1.024E-06	1600
114.0	43.4	289	3.862E-07	4.248E-07	1600
114.0	49.6	132	1.770E-07	1.947E-07	1600
114.0	55.8	25	3.441E-08	3.793E-08	1600
114.0	62.0	7	9.845E-09	1.087E-08	1600

AZIMUTH HEIGHT EXPOSURE E/O FU/O DISTANCE
DEGREES METERS GM-SEC/CM SEC/CM 1/SEC METERS
X10E+6

122.0	1.5	22	2.966E-08	3.262E-08	1600
122.0	3.1	16	2.230E-08	2.453E-08	1600
122.0	6.2	18	2.460E-08	2.706E-08	1600
122.0	9.3	10	1.444E-08	1.593E-08	1600
122.0	12.4	23	3.103E-08	3.414E-08	1600
122.0	15.5	30	4.923E-08	4.425E-08	1600

TOWER DATA FROM.....

TEST 113F JUNE 12, 1964 0343 TO 0404 PST
 FLUORESCENT RELEASE FROM ELEVATION OF 2M
 3200M ARC U= 1.1 M/SEC AT 2M

TEST 113F JUNE 12, 1964 0343 TO 0404 PST
 FLUORESCENT RELEASE FROM ELEVATION OF 2M
 3200M ARC SAMPLED AT 1.5M U= 1.1 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE CM-SEC/CU.M X10E+6	FZG SEC/CU.M	FUZO 1/SEC	DISTANCE METERS
71.0	127	1.705E-07	1.876E-07	3200
72.0	190	2.517E-07	2.790E-07	3200
73.0	382	5.094E-07	5.604E-07	3200
74.0	873	1.144E-06	1.281E-06	3200
75.0	1520	2.027E-06	2.230E-06	3200
76.0	1890	2.526E-06	2.779E-06	3200
77.0	2241	3.015E-06	3.316E-06	3200
78.0	2729	3.639E-06	4.003E-06	3200
79.0	3190	4.263E-06	4.689E-06	3200
80.0	3313	4.418E-06	4.840E-06	3200
81.0	4288	5.718E-06	6.290E-06	3200
82.0	4954	5.406E-06	5.907E-06	3200
83.0	4883	5.978E-06	6.576E-06	3200
84.0	4600	6.130E-06	6.707E-06	3200
85.0	5146	6.862E-06	7.508E-06	3200
86.0	5346	7.173E-06	7.891E-06	3200
88.0	5146	6.862E-06	7.508E-06	3200
89.0	4132	5.510E-06	6.061E-06	3200
90.0	5146	6.862E-06	7.508E-06	3200
91.0	5346	7.173E-06	7.891E-06	3200
92.0	5458	7.277E-06	8.005E-06	3200
93.0	4951	6.602E-06	7.262E-06	3200
94.0	4951	6.602E-06	7.262E-06	3200
95.0	4132	5.510E-06	6.061E-06	3200
96.0	3586	4.782E-06	5.261E-06	3200
97.0	3177	4.237E-06	4.669E-06	3200
98.0	2690	3.587E-06	3.945E-06	3200
99.0	2374	3.171E-06	3.484E-06	3200
100.0	1840	2.454E-06	2.699E-06	3200
101.0	1231	1.643E-06	1.807E-06	3200
102.0	1228	1.637E-06	1.801E-06	3200
103.0	705	1.060E-06	1.166E-06	3200
104.0	331	4.018E-07	4.460E-07	3200
105.0	569	7.569E-07	8.346E-07	3200
106.0	210	2.807E-07	3.088E-07	3200
107.0	126	1.600E-07	1.853E-07	3200
108.0	99	1.331E-07	1.464E-07	3200
109.0	43	5.822E-08	6.404E-08	3200
110.0	42	5.718E-08	6.290E-08	3200
111.0	21	2.911E-08	3.202E-08	3200
112.0	10	1.393E-08	1.532E-08	3200
113.0	4	6.806E-09	7.490E-09	3200

CROSS-ING INTEGRATED= 7.997E-03
 SEC/SEC 1/1"

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CM-SEC/CU.M X10E+6	FZG SEC/CU.M	FUZO 1/SEC	DISTANCE METERS
98.0	0.2	1002	2.537E-06	2.790E-06	3200
98.0	0.4	2354	3.275E-06	3.602E-06	3200
98.0	0.8	2222	2.963E-06	3.259E-06	3200
98.0	3.1	1528	2.038E-06	2.241E-06	3200
98.0	6.2	2222	2.963E-06	3.259E-06	3200
98.0	9.3	2553	3.405E-06	3.745E-06	3200
98.0	12.4	2222	2.963E-06	3.259E-06	3200
98.0	15.5	2027	2.703E-06	2.973E-06	3200
98.0	16.6	1231	1.603E-06	1.807E-06	3200
98.0	24.8	440	5.026E-07	6.519E-07	3200
98.0	37.2	76	1.019E-07	1.121E-07	3200
98.0	43.4	21	2.807E-08	3.088E-08	3200
98.0	49.6	5	7.173E-09	7.891E-09	3200
98.0	55.8	6	8.005E-09	8.806E-09	3200
98.0	62.0	1	2.318E-09	2.550E-09	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CM-SEC/CU.M X10E+6	FZG SEC/CU.M	FUZO 1/SEC	DISTANCE METERS
106.0	0.2	171	2.287E-07	2.516E-07	3200
106.0	0.4	202	2.703E-07	2.973E-07	3200
106.0	0.8	208	2.781E-07	3.059E-07	3200
106.0	1.5	210	2.807E-07	3.088E-07	3200
106.0	3.1	224	2.985E-07	3.288E-07	3200
106.0	6.2	38	5.120E-08	5.632E-08	3200
106.0	9.3	553	7.381E-07	8.120E-07	3200
106.0	12.4	800	8.005E-07	8.864E-07	3200
106.0	15.5	732	9.773E-07	1.075E-06	3200
106.0	18.6	908	1.331E-06	1.464E-06	3200
106.0	21.7	1052	1.400E-06	1.544E-06	3200
106.0	24.8	520	1.227E-06	1.340E-06	3200
106.0	31.0	732	9.773E-07	1.075E-06	3200
106.0	37.2	352	4.782E-07	5.261E-07	3200
106.0	43.4	171	2.287E-07	2.516E-07	3200
106.0	49.6	72	9.655E-08	1.066E-07	3200
106.0	55.8	20	2.781E-08	3.059E-08	3200
106.0	62.0	1	2.287E-09	2.516E-09	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CM-SEC/CU.M X10E+6	FZG SEC/CU.M	FUZO 1/SEC	DISTANCE METERS
110.0	0.2	4	5.718E-09	6.290E-09	3200
110.0	0.4	3	4.806E-09	5.375E-09	3200
110.0	0.8	4	6.030E-09	6.633E-09	3200
110.0	1.5	4	5.718E-09	6.290E-09	3200
110.0	3.1	6	8.317E-09	9.149E-09	3200
110.0	6.2	7	1.019E-08	1.121E-08	3200
110.0	9.3	13	1.819E-08	2.001E-08	3200
110.0	12.4	14	1.975E-08	2.173E-08	3200
110.0	15.5	18	2.405E-08	2.745E-08	3200
110.0	18.6	30	4.003E-08	4.403E-08	3200
110.0	21.7	35	4.782E-08	5.261E-08	3200
110.0	24.8	52	6.992E-08	7.691E-08	3200
110.0	31.0	93	1.246E-07	1.372E-07	3200
110.0	37.2	405	5.406E-07	5.947E-07	3200
110.0	43.4	146	1.955E-07	2.150E-07	3200
110.0	49.6	123	1.603E-07	1.807E-07	3200
110.0	55.8	80	1.071E-07	1.178E-07	3200
110.0	62.0	82	1.102E-07	1.212E-07	3200

SECONDARY SERIES EXPERIMENT: MT-4
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS.

TEST #14 DATE 26, 1964 0355 TO 0423 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLED AT 1.5M U= 2.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/R SEC/CU.M	FU/R 1/50.M	DISTANCE METERS
68.0	50	2.965E-08	6.478E-08	200	106.0
70.0	111	5.545E-08	1.231E-07	200	106.0
72.0	70	3.534E-08	7.774E-08	200	106.0
74.0	100	5.448E-08	1.198E-07	200	106.0
76.0	29	1.472E-08	3.239E-08	200	106.0
78.0	265	1.325E-07	2.915E-07	200	106.0
80.0	86	4.717E-08	9.717E-08	200	106.0
82.0	200	1.031E-07	2.267E-07	200	106.0
84.0	100	5.004E-08	1.101E-07	200	106.0
86.0	120	6.046E-08	1.328E-07	200	106.0
88.0	104	9.717E-08	2.138E-07	200	106.0
90.0	64	3.249E-08	7.126E-08	200	106.0
92.0	123	6.184E-08	1.360E-07	200	106.0
94.0	164	8.245E-08	1.814E-07	200	106.0
96.0	170	4.534E-08	1.879E-07	200	106.0
100.0	535	2.680E-07	5.895E-07	200	106.0
102.0	2027	1.409E-06	3.297E-06	200	106.0
104.0	3751	1.876E-06	4.127E-06	200	106.0
106.0	5206	2.953E-06	6.498E-06	200	106.0
108.0	137480	4.899E-05	1.518E-04	200	106.0
110.0	191400	7.720E-05	2.138E-04	200	106.0
112.0	286033	1.440E-04	3.146E-04	200	114.0
114.0	340481	1.702E-04	3.749E-04	200	114.0
116.0	596517	2.938E-04	6.562E-04	200	114.0
118.0	757415	3.787E-04	8.330E-04	200	114.0
120.0	712013	3.563E-04	7.839E-04	200	114.0
122.0	392426	1.962E-04	4.317E-04	200	114.0
124.0	270404	1.352E-04	2.973E-04	200	114.0
126.0	122147	6.107E-05	1.344E-04	200	114.0
128.0	49469	2.223E-05	4.892E-05	200	114.0
130.0	14008	7.404E-06	1.629E-05	200	114.0
132.0	2410	1.207E-06	2.656E-06	200	114.0
134.0	471	2.208E-07	4.859E-07	200	114.0
136.0	156	7.903E-08	1.717E-07	200	114.0

CROSS-IND INTEGRATED= 1.357E-02 2.986E-02
SEC/CU.M 1/M

TOWER DATA FOR 14.000

TEST #14 DATE 26, 1964 0355 TO 0423 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 2.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/R SEC/CU.M	FU/R 1/50.M	DISTANCE METERS
122.0	0.3	369909	1.850E-04	4.069E-04	200
122.0	0.7	433152	2.166E-04	4.765E-04	200
122.0	1.4	285197	1.428E-04	3.137E-04	200
122.0	2.7	266047	1.330E-04	2.927E-04	200
122.0	4.1	145350	7.268E-05	1.599E-04	200
122.0	5.4	132638	7.132E-05	1.569E-04	200
122.0	6.6	196097	9.405E-05	2.166E-04	200
122.0	8.1	161598	8.080E-05	1.778E-04	200
122.0	9.4	114725	5.736E-05	1.262E-04	200
122.0	10.8	142738	7.137E-05	1.570E-04	200
122.0	13.5	115348	5.767E-05	1.269E-04	200
122.0	16.2	78081	3.404E-05	8.589E-05	200
122.0	16.9	67988	3.396E-05	7.477E-05	200
122.0	21.6	31650	1.583E-05	3.482E-05	200
122.0	24.3	12354	6.177E-06	1.359E-05	200
122.0	27.0	3029	1.515E-06	3.332E-06	200

TOUR DATA FILLER....

TEST MT4 JUNE 26, 1968 0355 TO 0423 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ABC U= 2.2 M/SEC AT 2M

AZIMUTH HEIGHT EXPOSURE F/G F/G DISTANCE
DEGREES METERS CM*SEC/CM* SEC/CM* 1/SEC* METERS
X10E+6

130.0	0.3	14592	7.394E-04	1.609E-05	200
130.0	0.7	15951	7.974E-06	1.755E-05	200
130.0	1.4	6208	3.104E-06	6.829E-06	200
130.0	2.7	9242	4.633E-06	1.019E-05	200
130.0	4.1	9343	6.672E-06	1.029E-05	200
130.0	5.4	10279	5.144E-06	1.131E-05	200
130.0	8.8	10453	5.227E-06	1.150E-05	200
130.0	11.2	11297	5.649E-06	1.243E-05	200
130.0	14.4	6605	3.303E-06	7.266E-06	200
130.0	18.8	4627	2.314E-06	5.090E-06	200
130.0	13.5	10395	5.198E-06	1.144E-05	200
130.0	16.2	9816	4.905E-06	1.079E-05	200
130.0	18.9	6109	3.055E-06	6.721E-06	200
130.0	21.6	3616	1.808E-06	3.978E-06	200
130.0	24.3	1883	9.410E-07	2.072E-06	200
130.0	27.0	1473	7.366E-07	1.621E-06	200

AZIMUTH HEIGHT EXPOSURE F/G F/G DISTANCE
DEGREES METERS CM*SEC/CM* SEC/CM* 1/SEC* METERS
X10E+6

106.0	0.3	1871	9.404E-07	2.070E-06	800
106.0	0.5	2874	1.437E-06	3.162E-06	800
106.0	1.0	1946	9.983E-07	2.196E-06	800
106.0	2.1	1741	9.806E-07	1.937E-06	800
106.0	4.2	2275	1.138E-06	2.503E-06	800
106.0	6.3	2181	1.091E-06	2.404E-06	800
106.0	8.4	2325	1.163E-06	2.558E-06	800
106.0	10.5	2613	1.307E-06	2.874E-06	800
106.0	12.6	2545	1.293E-06	2.844E-06	800
106.0	14.7	2808	1.444E-06	3.177E-06	800
106.0	16.8	2621	1.311E-06	2.884E-06	800
106.0	21.0	2327	1.164E-06	2.568E-06	800
106.0	25.2	1952	9.411E-07	2.158E-06	800
106.0	29.4	1307	6.536E-07	1.438E-06	800
106.0	33.6	1011	5.055E-07	1.113E-06	800
106.0	37.8	674	3.372E-07	7.419E-07	800
106.0	42.0	405	2.030E-07	4.465E-07	800

TEST MT4 JUNE 26, 1968 0355 TO 0423 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ABC SCAPLER MT 1.5M U= 2.2 M/SEC AT 2M

AZIMUTH EXPOSURE F/G F/G DISTANCE
DEGREES CM*SEC/CM* SEC/CM* 1/SEC* METERS
X10E+6

102.0	297	1.404E-07	3.165E-07	800
104.0	2187	1.074E-06	2.362E-06	800
106.0	2498	1.249E-06	2.746E-06	800
108.0	5451	2.726E-06	5.997E-06	800
110.0	10200	5.104E-06	1.123E-05	800
Q 112.0	18371	9.184E-06	2.021E-05	800
Q 114.0	34724	1.736E-05	3.820E-05	800
Q 116.0	53102	2.655E-05	5.841E-05	800
Q 118.0	66396	3.320E-05	7.304E-05	800
Q 120.0	32283	1.614E-05	3.551E-05	800
122.0	19742	9.871E-06	2.172E-05	800
124.0	6767	3.344E-06	7.445E-06	800
126.0	2785	1.343E-06	3.064E-06	800
128.0	1147	5.739E-07	1.263E-06	800
130.0	136	6.836E-08	1.504E-07	800
132.0	131	6.551E-08	1.441E-07	800
134.0	88	4.415E-08	9.713E-08	800
136.0	74	3.703E-08	8.146E-08	800
140.0	68	3.418E-08	7.520E-08	800

AZIMUTH HEIGHT EXPOSURE F/G F/G DISTANCE
DEGREES METERS CM*SEC/CM* SEC/CM* 1/SEC* METERS
X10E+6

Q 114.0	0.3	29743	1.487E-05	3.272E-05	800
Q 116.0	0.5	31564	1.574E-05	3.471E-05	800
Q 118.0	1.0	29212	1.011E-05	2.223E-05	800
Q 114.0	2.1	21343	1.047E-05	2.344E-05	800
114.0	4.2	33645	1.682E-05	3.701E-05	800
114.0	6.3	26898	1.346E-05	2.958E-05	800
114.0	8.4	23322	1.166E-05	2.565E-05	800
114.0	10.5	25124	1.260E-05	2.771E-05	800
114.0	12.6	28006	1.400E-05	3.081E-05	800
114.0	14.7	22640	1.134E-05	2.495E-05	800
114.0	16.8	23061	1.153E-05	2.537E-05	800
114.0	21.0	25726	1.246E-05	2.830E-05	800
114.0	25.2	16621	8.311E-06	1.828E-05	800
114.0	29.4	7576	3.784E-06	8.334E-06	800
114.0	33.6	10404	5.202E-06	1.144E-05	800
114.0	37.8	5644	2.842E-06	6.253E-06	800
114.0	42.0	4741	2.371E-06	5.215E-06	800

AZIMUTH HEIGHT EXPOSURE F/G F/G DISTANCE
DEGREES METERS CM*SEC/CM* SEC/CM* 1/SEC* METERS
X10E+6

CROSSHAIR INTEGRATED 3.581E-03 7.879E-03
SEC/SEC* 1/M

122.0	0.3	16641	8.321E-06	1.831E-05	800
122.0	0.5	16644	9.343E-06	1.836E-05	800
122.0	1.0	19823	5.412E-06	1.191E-05	800
122.0	2.1	12428	6.214E-06	1.367E-05	800
122.0	4.2	6556	3.278E-06	7.212E-06	800
122.0	6.3	13264	6.632E-06	1.459E-05	800
122.0	8.4	14608	7.303E-06	1.607E-05	800
122.0	10.5	14922	7.461E-06	1.641E-05	800
122.0	12.6	14707	7.249E-06	1.595E-05	800
122.0	14.7	13867	6.934E-06	1.525E-05	800
122.0	16.8	14804	7.447E-06	1.634E-05	800
122.0	21.0	14045	7.043E-06	1.549E-05	800
122.0	25.2	12804	6.442E-06	1.417E-05	800
122.0	29.4	10917	5.459E-06	1.201E-05	800
122.0	33.6	8954	4.497E-06	9.894E-06	800
122.0	37.8	4643	2.322E-06	5.108E-06	800
122.0	42.0	6642	3.341E-06	7.350E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	FL/G 1/SG.M	DISTANCE METERS
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130.0	0.3	91	4.557E-08	1.003E-07	800
130.0	0.5	107	5.371E-08	1.182E-07	800
130.0	1.0	93	4.676E-08	1.029E-07	800
130.0	2.1	148	7.446E-08	1.634E-07	800
130.0	4.2	65	3.290E-08	7.239E-08	800
130.0	6.3	230	1.152E-07	2.533E-07	800
130.0	8.4	110	5.541E-08	1.219E-07	800
130.0	10.5	225	1.126E-07	2.476E-07	800
130.0	12.6	188	9.438E-08	2.076E-07	800
130.0	14.7	143	7.187E-08	1.581E-07	800
130.0	16.8	192	9.611E-08	2.114E-07	800
130.0	21.0	131	6.590E-08	1.444E-07	800
130.0	29.0	202	1.012E-07	2.226E-07	800
130.0	33.8	139	6.995E-08	1.539E-07	800
130.0	37.8	146	7.307E-08	1.607E-07	800
130.0	42.0	78	3.930E-08	8.656E-08	800

TOWER DATA FOLLOWS...

TEST #14 JUNE 26, 1964 0355 TO 0423 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SLOPE OF 1.5M U= 2.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	FL/G 1/SG.M	DISTANCE METERS
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106.0	0.2	674	3.370E-07	7.415E-07	1600
106.0	0.4	603	3.014E-07	6.636E-07	1600
106.0	0.8	562	2.612E-07	6.187E-07	1600
106.0	1.5	440	2.205E-07	4.851E-07	1600
106.0	3.1	639	3.196E-07	7.032E-07	1600
106.0	6.2	406	2.482E-07	5.481E-07	1600
106.0	9.3	619	3.099E-07	6.819E-07	1600
106.0	12.4	736	3.682E-07	8.100E-07	1600
106.0	15.5	546	2.933E-07	6.453E-07	1600
106.0	18.6	574	2.971E-07	6.315E-07	1600
106.0	21.7	508	2.545E-07	5.598E-07	1600
106.0	24.8	545	2.725E-07	5.996E-07	1600
106.0	31.0	320	1.602E-07	3.524E-07	1600
106.0	37.2	319	1.596E-07	3.512E-07	1600
106.0	43.4	333	1.670E-07	3.674E-07	1600
106.0	49.6	146	9.304E-08	2.047E-07	1600
106.0	55.8	48	4.438E-08	9.764E-08	1600
106.0	62.0	126	6.346E-08	1.396E-07	1600

TEST #14 JUNE 26, 1964 0355 TO 0423 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SLOPE OF 1.5M U= 2.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	FL/G 1/SG.M	DISTANCE METERS
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102.0	32	1.439E-08	3.607E-08	1600
103.0	132	6.967E-08	1.533E-07	1600
104.0	338	1.691E-07	3.719E-07	1600
105.0	495	2.480E-07	5.455E-07	1600
106.0	545	2.725E-07	5.996E-07	1600
107.0	549	4.447E-07	9.783E-07	1600
108.0	1246	5.935E-07	1.416E-06	1600
109.0	1969	9.847E-07	2.156E-06	1600
110.0	2475	1.238E-06	2.723E-06	1600
111.0	4807	2.404E-06	5.284E-06	1600
112.0	7231	3.496E-06	8.020E-06	1600
113.0	8749	4.400E-06	9.679E-06	1600
114.0	10498	5.249E-06	1.155E-05	1600
115.0	575	2.879E-07	6.334E-07	1600
116.0	18551	9.276E-06	2.091E-05	1600
117.0	15526	7.763E-06	1.706E-05	1600
118.0	12371	6.186E-06	1.361E-05	1600
119.0	9170	4.589E-06	1.010E-05	1600
120.0	4810	2.005E-06	4.411E-06	1600
121.0	2204	1.102E-06	2.425E-06	1600
122.0	1713	8.544E-07	1.884E-06	1600
123.0	1085	5.428E-07	1.174E-06	1600
124.0	1449	7.306E-07	1.616E-06	1600
125.0	1356	6.783E-07	1.492E-06	1600
126.0	686	3.432E-07	7.551E-07	1600
127.0	235	1.178E-07	2.592E-07	1600
128.0	116	5.943E-08	1.307E-07	1600
129.0	131	6.585E-08	1.493E-07	1600

CROSSHAIR INTEGRATED= 1.530E-03 SEC/SG.M 3.366E-03 1/M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	FL/G 1/SG.M	DISTANCE METERS
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114.0	0.2	7893	3.742E-06	8.671E-06	1600
114.0	0.4	9175	4.588E-06	1.009E-05	1600
114.0	0.8	9473	4.737E-06	1.042E-05	1600
114.0	1.5	8304	4.172E-06	9.178E-06	1600
114.0	3.1	9239	4.620E-06	1.016E-05	1600
114.0	6.2	2709	5.000E-06	1.100E-05	1600
114.0	9.3	10343	5.192E-06	1.142E-05	1600
114.0	12.4	11827	5.914E-06	1.301E-05	1600
114.0	15.5	11109	5.400E-06	1.232E-05	1600
114.0	18.6	8630	4.615E-06	9.714E-06	1600
114.0	21.7	8450	4.625E-06	9.735E-06	1600
114.0	24.8	5417	2.909E-06	6.359E-06	1600
114.0	31.0	5793	2.497E-06	6.373E-06	1600
114.0	37.2	4114	2.057E-06	4.528E-06	1600
114.0	43.4	4014	2.067E-06	5.298E-06	1600
114.0	49.6	1212	1.121E-06	2.067E-06	1600
114.0	55.8	2775	1.240E-06	2.728E-06	1600
114.0	62.0	1705	4.545E-07	1.080E-06	1600

AZIMUTH HEIGHT EXPOSURE E/G FL/U DISTANCE						
DEGREES	METERS	GM-SEC/CU.M	SEC/CU.M	1/SQ.M	METERS	
122.0	0.2	1202	6.011E-07	1.322E-06	1600	
122.0	0.4	1205	6.226E-07	1.370E-06	1600	
122.0	0.8	1464	7.321E-07	1.611E-06	1600	
122.0	1.5	1203	6.010E-07	1.324E-06	1600	
122.0	3.1	1253	6.260E-07	1.379E-06	1600	
122.0	6.2	1486	7.433E-07	1.635E-06	1600	
122.0	9.3	1141	5.706E-07	1.255E-06	1600	
122.0	12.4	1073	5.367E-07	1.181E-06	1600	
122.0	15.5	1517	7.585E-07	1.669E-06	1600	
122.0	18.6	1533	7.669E-07	1.687E-06	1600	
122.0	21.7	1670	8.397E-07	1.847E-06	1600	
122.0	24.8	1121	5.608E-07	1.234E-06	1600	
122.0	31.0	1233	6.165E-07	1.356E-06	1600	
122.0	37.2	1375	6.679E-07	1.513E-06	1600	
122.0	43.4	1307	6.538E-07	1.438E-06	1600	
122.0	49.6	912	4.563E-07	1.004E-06	1600	
122.0	55.8	1036	5.182E-07	1.140E-06	1600	
122.0	62.0	808	4.041E-07	8.890E-07	1600	
TEST #14 JUNE 26, 1964 0355 TO 0423 PST						
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M						
3200M ALC U= 2.2 M/SEC AT 2M						
AZIMUTH HEIGHT EXPOSURE E/G FL/U DISTANCE	DEGREES	METERS	GM-SEC/CU.M	SEC/CU.M	1/SQ.M	METERS
106.0	0.2	376	1.041E-07	4.138E-07	3200	
106.0	0.4	508	2.503E-07	5.596E-07	3200	
106.0	0.8	503	2.518E-07	5.540E-07	3200	
106.0	1.5	521	2.600E-07	5.737E-07	3200	
106.0	3.1	416	2.683E-07	4.582E-07	3200	
106.0	6.2	405	2.625E-07	4.464E-07	3200	
106.0	9.3	555	2.796E-07	6.155E-07	3200	
106.0	12.4	443	2.405E-07	5.299E-07	3200	
106.0	15.5	554	2.773E-07	6.100E-07	3200	
106.0	18.6	476	2.400E-07	5.468E-07	3200	
106.0	21.7	507	2.736E-07	6.019E-07	3200	
106.0	24.8	302	1.511E-07	3.325E-07	3200	
106.0	31.0	269	1.348E-07	2.966E-07	3200	
106.0	37.2	176	0.806E-08	2.158E-07	3200	
106.0	43.4	160	8.007E-08	1.762E-07	3200	
106.0	49.6	154	7.740E-08	1.704E-07	3200	
106.0	55.8	126	6.310E-08	1.389E-07	3200	
106.0	62.0	23	1.176E-08	2.587E-08	3200	
AZIMUTH HEIGHT EXPOSURE E/G FL/U DISTANCE	DEGREES	METERS	GM-SEC/CU.M	SEC/CU.M	1/SQ.M	METERS
130.0	0.2	23	1.181E-08	2.598E-08	1600	
130.0	0.4	36	1.825E-08	4.019E-08	1600	
130.0	0.8	11	5.547E-09	1.220E-08	1600	
130.0	1.5	24	1.240E-08	2.746E-08	1600	
130.0	3.1	12	6.240E-09	1.373E-08	1600	
130.0	6.2	24	1.248E-08	2.746E-08	1600	
130.0	9.3	48	2.427E-08	5.339E-08	1600	
130.0	12.4	34	1.733E-08	3.812E-08	1600	
130.0	15.5	25	1.260E-08	2.773E-08	1600	
130.0	18.6	11	5.776E-09	1.271E-08	1600	
130.0	21.7	24	1.206E-08	2.657E-08	1600	
130.0	24.8	20	1.012E-08	2.227E-08	1600	
130.0	31.0	12	6.229E-09	1.370E-08	1600	
TEST #14 JUNE 26, 1964 0355 TO 0423 PST						
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M						
3200M ALC SAMPLER KE 1.5M U= 2.2 M/SEC AT 2M						
AZIMUTH EXPOSURE E/G FL/U DISTANCE	DEGREES	GM-SEC/CU.M	SEC/CU.M	1/SQ.M	METERS	
102.0	30	1.505E-08	3.311E-08	3200		
103.0	111	5.563E-08	1.228E-07	3200		
104.0	196	9.006E-08	2.157E-07	3200		
105.0	297	1.495E-07	3.268E-07	3200		
106.0	485	2.467E-07	5.383E-07	3200		
107.0	790	3.951E-07	8.693E-07	3200		
108.0	601	3.400E-07	7.497E-07	3200		
109.0	1118	5.592E-07	1.235E-06	3200		
110.0	1175	5.529E-07	1.216E-06	3200		
111.0	1991	9.956E-07	2.199E-06	3200		
112.0	3726	1.863E-06	4.099E-06	3200		
113.0	4487	2.240E-06	4.930E-06	3200		
114.0	4215	2.100E-06	4.637E-06	3200		
115.0	2013	1.007E-06	2.215E-06	3200		
116.0	1568	7.220E-07	1.720E-06	3200		
117.0	794	4.571E-07	1.094E-06	3200		
118.0	766	3.835E-07	8.437E-07	3200		
119.0	999	4.905E-07	1.099E-06	3200		
120.0	700	3.505E-07	7.711E-07	3200		
121.0	575	2.879E-07	6.333E-07	3200		
122.0	452	2.262E-07	4.977E-07	3200		
123.0	336	1.644E-07	3.706E-07	3200		
124.0	285	1.427E-07	3.140E-07	3200		
125.0	166	8.301E-08	1.826E-07	3200		
126.0	91	4.563E-08	1.004E-07	3200		
127.0	46	2.310E-08	5.126E-08	3200		
128.0	11	5.825E-09	1.282E-08	3200		
129.0	8	4.340E-09	9.612E-09	3200		
CROSS-SECTION INTEGRATED= 7.890E-04 1.736E-03						
SEC/SEC 1/M						
AZIMUTH HEIGHT EXPOSURE E/G FL/U DISTANCE	DEGREES	METERS	GM-SEC/CU.M	SEC/CU.M	1/SQ.M	METERS
130.0	9.3	12	6.199E-09	1.364E-08	3200	
130.0	12.4	15	7.852E-09	1.727E-08	3200	
130.0	24.8	13	6.932E-09	1.525E-08	3200	

SECONDARY SERIES EXPERIMENT: X-2
GROUND LEVEL AND TOWER SAMPLING 800-3200 M ARCS.

TEST X2 APRIL 3, 1964 0507 TO 0535 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
800M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
90.0	118	7.872E-09	2.047E-08	800	
F 92.0	68	4.557E-09	1.185E-08	800	
F 94.0	27	1.864E-09	4.847E-09	800	
F 96.0	1084	7.230E-08	1.880E-07	800	
98.0	24721	1.648E-06	4.285E-06	800	
100.0	80961	5.397E-06	1.403E-05	800	
102.0	234083	1.561E-05	4.057E-05	800	
104.0	435831	2.906E-05	7.554E-05	800	
106.0	802498	5.350E-05	1.391E-04	800	
108.0	1768096	1.179E-04	3.065E-04	800	
110.0	2580988	1.721E-04	4.474E-04	800	
112.0	3257478	2.172E-04	5.646E-04	800	
114.0	2619739	1.746E-04	4.541E-04	800	
116.0	1069438	7.130E-05	1.854E-04	800	
118.0	116344	7.756E-06	2.017E-05	800	
120.0	3197	2.132E-07	5.542E-07	800	
F 122.0	689	4.599E-08	1.196E-07	800	
F 124.0	90	6.007E-09	1.562E-08	800	
F 128.0	242	1.616E-08	4.201E-08	800	
130.0	220	1.471E-08	3.824E-08	800	
134.0	62	4.143E-09	1.077E-08	800	
150.0	37	2.486E-09	6.463E-09	800	
160.0	43	2.900E-09	7.540E-09	800	

CROSSWIND INTEGRATED= 2.420E-02 SEC/30.M
6.291E-02 1/M

TOWER DATA FOLLOW....

TEST X2 APRIL 3, 1964 0507 TO 0535 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
800M ARC U= 2.6 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.3	23949	1.597E-06	4.151E-06	800
98.0	0.5	22955	1.524E-06	3.962E-06	800
98.0	1.0	15812	1.054E-06	2.741E-06	800
98.0	2.1	13461	8.974E-07	2.333E-06	800
98.0	4.2	7561	5.041E-07	1.311E-06	800
98.0	6.3	3199	2.133E-07	5.546E-07	800
98.0	8.4	718	4.787E-08	1.245E-07	800
98.0	10.5	222	1.481E-08	3.850E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.3	762595	5.084E-05	1.322E-04	800
106.0	0.5	769301	5.129E-05	1.333E-04	800
106.0	1.0	504054	3.360E-05	8.737E-05	800
106.0	2.1	440255	2.935E-05	7.631E-05	800
106.0	4.2	432494	2.883E-05	7.497E-05	800
106.0	6.3	271773	1.812E-05	4.711E-05	800
106.0	8.4	169003	1.127E-05	2.929E-05	800
106.0	10.5	60185	4.012E-06	1.043E-05	800
106.0	12.6	6903	4.602E-07	1.197E-06	800
106.0	14.7	689	4.328E-08	1.125E-07	800
106.0	16.8	103	6.893E-09	1.792E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.3	2243286	1.496E-04	3.888E-04	800
114.0	0.5	2193509	1.442E-04	3.802E-04	800
114.0	1.0	1506998	1.005E-04	2.612E-04	800
114.0	2.1	1859807	1.240E-04	3.224E-04	800
114.0	4.2	2198478	1.466E-04	3.811E-04	800
114.0	6.3	2402265	1.602E-04	4.169E-04	800
114.0	8.4	2038624	1.359E-04	3.534E-04	800
114.0	10.5	1924051	1.283E-04	3.335E-04	800
114.0	12.6	1305620	8.704E-05	2.263E-04	800
114.0	14.7	734373	4.896E-05	1.273E-04	800
114.0	16.8	375367	2.502E-05	6.506E-05	800
114.0	21.0	81852	5.457E-06	1.419E-05	800
114.0	25.2	12169	8.113E-07	2.109E-06	800
114.0	29.4	1163	7.755E-08	2.016E-07	800
5 114.0	33.6	55	3.679E-09	9.566E-09	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
122.0	0.3	87	5.860E-09	1.523E-08	800
122.0	0.5	999	6.597E-08	1.715E-07	800
122.0	1.0	45	3.064E-09	7.966E-09	800
122.0	4.2	225	1.506E-08	3.917E-08	800
122.0	6.3	400	2.668E-08	6.937E-08	800
122.0	8.4	844	5.630E-08	1.464E-07	800
122.0	10.5	1560	1.040E-07	2.705E-07	800
122.0	12.6	3569	2.380E-07	6.187E-07	800
122.0	14.7	7847	5.258E-07	1.367E-06	800
122.0	16.8	14719	9.813E-07	2.551E-06	800
122.0	21.0	17963	1.198E-06	3.114E-06	800
122.0	25.2	10235	6.824E-07	1.774E-06	800
122.0	29.4	4888	3.259E-07	8.473E-07	800
122.0	33.6	1750	1.167E-07	3.033E-07	800
122.0	37.8	636	4.241E-08	1.103E-07	800
122.0	42.0	257	1.714E-08	4.456E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
130.0	1.0	97	6.511E-09	1.693E-08	800
130.0	4.2	74	4.979E-09	1.294E-08	800
130.0	10.5	34	2.298E-09	5.974E-09	800
130.0	12.6	91	6.128E-09	1.593E-08	800
130.0	14.7	51	3.447E-09	8.962E-09	800
130.0	42.0	33	2.227E-09	5.790E-09	800

TEST X2 APRIL 3, 1964 0507 TO 0535 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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80.0	53	3.578E-09	9.303E-09	1600	
87.0	30	2.004E-09	5.210E-09	1600	
92.0	135	9.017E-09	2.344E-06	1600	
93.0	191	1.274E-08	3.312E-08	1600	
94.0	811	5.410E-08	1.407E-07	1600	
96.0	4660	3.107E-07	8.079E-07	1600	
97.0	8050	5.367E-07	1.395E-06	1600	
98.0	14855	9.904E-07	2.575E-06	1600	
99.0	30707	2.047E-06	5.323E-06	1600	
100.0	47845	3.190E-06	8.293E-06	1600	
101.0	69431	4.629E-06	1.203E-05	1600	
102.0	113456	7.564E-06	1.967E-05	1600	
103.0	159999	1.067E-05	2.773E-05	1600	
104.0	206983	1.380E-05	3.588E-05	1600	
105.0	262206	1.748E-05	4.545E-05	1600	
106.0	373444	2.490E-05	6.473E-05	1600	
107.0	543660	3.624E-05	9.423E-05	1600	
108.0	669879	4.466E-05	1.161E-04	1600	
109.0	796229	5.308E-05	1.380E-04	1600	
110.0	757157	5.048E-05	1.312E-04	1600	
111.0	636722	4.245E-05	1.104E-04	1600	
112.0	587448	3.916E-05	1.018E-04	1600	
113.0	506971	3.380E-05	8.788E-05	1600	
114.0	391574	2.610E-05	6.787E-05	1600	
115.0	215199	1.435E-05	3.730E-05	1600	
116.0	97926	6.528E-06	1.697E-05	1600	
117.0	35312	2.354E-06	6.121E-06	1600	
118.0	10523	7.016E-07	1.824E-06	1600	
119.0	2732	1.822E-07	4.737E-07	1600	
120.0	437	2.920E-08	7.591E-08	1600	
121.0	81	5.439E-09	1.414E-08	1600	
122.0	34	2.290E-09	5.954E-09	1600	
123.0	23	1.574E-09	4.093E-09	1600	
124.0	62	4.150E-09	1.079E-08	1600	
139.0	25	1.717E-09	4.465E-09	1600	

CROSSWIND INTEGRATED= 1.219E-02 SEC/90.M 3.170E-02 1/M

TOWER DATA FOLLOW...

TEST X2 APRIL 3, 1964 0507 TO 0535 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC U= 2.6 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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98.0	0.2	15012	1.001E-06	2.602E-06	1600
98.0	0.4	15551	1.037E-06	2.696E-06	1600
98.0	0.8	16498	1.100E-06	2.860E-06	1600
98.0	1.5	10336	6.891E-07	1.792E-06	1600
98.0	3.1	10634	7.090E-07	1.843E-06	1600
98.0	6.2	5484	3.657E-07	9.507E-07	1600
98.0	9.3	2206	1.471E-07	3.825E-07	1600
98.0	12.4	776	5.176E-08	1.346E-07	1600
98.0	15.5	191	1.279E-08	3.325E-08	1600
98.0	18.6	42	2.820E-09	7.331E-09	1600
98.0	21.7	16	1.108E-09	2.880E-09	1600
98.0	24.8	62	4.139E-09	1.076E-08	1600
98.0	31.0	3733	2.449E-07	6.472E-07	1600
98.0	37.2	58	3.900E-09	1.014E-08	1600
98.0	49.6	352	2.352E-08	6.116E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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106.0	0.2	317196	2.115E-05	5.498E-05	1600
106.0	0.4	344480	2.297E-05	5.971E-05	1600
106.0	0.8	354197	2.361E-05	6.139E-05	1600
106.0	1.5	263211	1.755E-05	4.562E-05	1600
106.0	3.1	268716	1.791E-05	4.658E-05	1600
106.0	6.2	214383	1.429E-05	3.716E-05	1600
106.0	9.3	148071	9.871E-06	2.567E-05	1600
106.0	12.4	71681	4.779E-06	1.242E-05	1600
106.0	15.5	26579	1.772E-06	4.607E-06	1600
106.0	18.6	7120	4.747E-07	1.234E-06	1600
106.0	21.7	953	6.354E-08	1.652E-07	1600
Z 106.0	24.8	2105	1.403E-07	3.649E-07	1600
Z 106.0	31.0	217	1.449E-08	3.767E-08	1600
Z 106.0	37.2	34	2.308E-09	6.002E-09	1600
Z 106.0	43.4	267	1.783E-08	4.636E-08	1600
Z 106.0	49.6	464	3.098E-08	8.056E-08	1600
Z 106.0	55.8	13	8.952E-10	2.328E-09	1600
106.0	62.0	A	5.471E-10	1.422E-09	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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114.0	0.2	333606	2.224E-05	5.783E-05	1600
114.0	0.4	344978	2.300E-05	5.980E-05	1600
114.0	0.8	331672	2.211E-05	5.749E-05	1600
114.0	1.5	292161	1.948E-05	5.064E-05	1600
114.0	3.1	304726	2.032E-05	5.282E-05	1600
114.0	6.2	479606	3.197E-05	8.313E-05	1600
114.0	9.3	563539	3.757E-05	9.768E-05	1600
114.0	12.4	512459	3.416E-05	8.883E-05	1600
114.0	15.5	310627	2.071E-05	5.384E-05	1600
114.0	18.6	110709	7.381E-06	1.919E-05	1600
114.0	21.7	49333	3.289E-06	8.551E-06	1600
D 114.0	24.8	922	6.153E-08	1.600E-07	1600
D 114.0	31.0	29	1.990E-09	5.174E-09	1600
D 114.0	37.2	22	1.512E-09	3.932E-09	1600
D 114.0	43.4	17	1.198E-09	3.104E-09	1600
D 114.0	49.6	20	1.343E-09	3.491E-09	1600
D 114.0	62.0	9	6.465E-10	1.681E-09	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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122.0	0.4	20	1.352E-09	3.516E-09	1600
122.0	0.8	22	1.503E-09	3.907E-09	1600
122.0	1.5	15	1.007E-09	2.618E-09	1600
122.0	3.1	30	2.014E-09	5.237E-09	1600
122.0	9.3	54	3.625E-09	9.426E-09	1600
122.0	12.4	398	2.659E-08	6.912E-08	1600
122.0	15.5	2323	1.549E-07	4.027E-07	1600
122.0	18.6	6622	4.415E-07	1.148E-06	1600
122.0	21.7	10906	7.298E-07	1.897E-06	1600
122.0	24.8	13296	8.864E-07	2.305E-06	1600
122.0	31.0	13442	8.961E-07	2.330E-06	1600
122.0	37.2	8383	5.589E-07	1.453E-06	1600
122.0	43.4	2296	1.531E-07	3.980E-07	1600
122.0	49.6	143	9.599E-09	2.496E-08	1600
122.0	55.8	15	1.044E-09	2.715E-09	1600
122.0	62.0	23	1.542E-09	4.009E-09	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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130.0	9.3	45	3.021E-09	7.855E-09	1600
130.0	24.8	47	3.184E-09	8.278E-09	1600
S 130.0	49.6	14	9.449E-10	2.457E-09	1600

TEST X2 APRIL 3, 1964 0507 TO 0535 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/Q SEC/CM.	EU/Q 1/SQ.M	DISTANCE METERS
82.0	16	1.087E-09	2.827E-09	3200	
83.0	30	2.039E-09	5.301E-09	3200	
84.0	73	4.893E-09	1.272E-08	3200	
85.0	175	1.169E-08	3.039E-08	3200	
86.0	436	2.909E-08	7.563E-08	3200	
87.0	753	5.022E-08	1.306E-07	3200	
88.0	1278	8.522E-08	2.216E-07	3200	
89.0	2200	1.467E-07	3.815E-07	3200	
90.0	3260	2.173E-07	5.651E-07	3200	
91.0	5069	3.380E-07	8.787E-07	3200	
92.0	7683	5.122E-07	1.332E-06	3200	
93.0	10734	7.156E-07	1.861E-06	3200	
94.0	16150	1.077E-06	2.799E-06	3200	
95.0	18760	1.251E-06	3.252E-06	3200	
96.0	21405	1.427E-06	3.710E-06	3200	
97.0	29174	1.945E-06	5.057E-06	3200	
98.0	30544	2.036E-06	5.294E-06	3200	
99.0	51153	3.410E-06	8.867E-06	3200	
100.0	61938	4.129E-06	1.074E-05	3200	
101.0	61167	4.078E-06	1.060E-05	3200	
102.0	52756	3.517E-06	9.145E-06	3200	
103.0	49356	3.290E-06	8.555E-06	3200	
104.0	65541	4.369E-06	1.136E-05	3200	
105.0	74442	4.963E-06	1.290E-05	3200	
106.0	91516	6.101E-06	1.586E-05	3200	
P 107.0	307	2.052E-08	5.336E-08	3200	
P 108.0	287	1.917E-08	4.903E-08	3200	
P 109.0	845	5.634E-08	1.465E-07	3200	
110.0	107595	7.173E-06	1.865E-05	3200	
111.0	134837	8.989E-06	2.337E-05	3200	
112.0	131474	8.765E-06	2.279E-05	3200	
113.0	72304	4.820E-06	1.253E-05	3200	
114.0	54568	3.638E-06	9.459E-06	3200	
115.0	26910	1.794E-06	4.664E-06	3200	
116.0	7552	5.035E-07	1.309E-06	3200	
117.0	640	4.268E-08	1.110E-07	3200	
118.0	257	1.719E-08	4.470E-08	3200	
119.0	92	6.184E-09	1.608E-08	3200	
120.0	31	2.107E-09	5.478E-09	3200	
121.0	18	1.223E-09	3.181E-09	3200	
7 122.0	202	1.352E-08	3.516E-08	3200	
123.0	11	7.476E-10	1.944E-09	3200	
124.0	79	5.301E-09	1.378E-08	3200	
125.0	61	4.078E-09	1.060E-08	3200	
2 126.0	782	5.219E-08	1.357E-07	3200	
129.0	11	7.476E-10	1.944E-09	3200	
7 130.0	84	5.641E-09	1.467E-08	3200	
139.0	32	2.175E-09	5.654E-09	3200	
161.0	21	1.427E-09	3.711E-09	3200	

CROSSWIND INTEGRATED= 4.455E-03 1.158E-02
SEC/CM. 1/M

OWER DATA FOLLOW....

TEST X2 APRIL 3, 1964 0507 TO 0535 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M ARC U= 2.6 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/Q SEC/CM.	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.2	32878	2.192E-06	5.699E-06	3200
98.0	0.4	32192	2.146E-06	5.580E-06	3200
98.0	0.8	32113	2.141E-06	5.566E-06	3200
98.0	1.5	29555	1.970E-06	5.123E-06	3200
98.0	3.1	27761	1.851E-06	4.812E-06	3200
98.0	6.2	23237	1.549E-06	4.028E-06	3200
98.0	9.3	18324	1.222E-06	3.176E-06	3200
98.0	12.4	3778	2.519E-07	6.549E-07	3200
98.0	15.5	2030	1.353E-07	3.519E-07	3200
98.0	18.6	342	2.286E-08	5.943E-08	3200
98.0	21.7	95	6.398E-09	1.663E-08	3200
98.0	24.8	14	9.523E-10	2.476E-09	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/Q SEC/CM.	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.2	76321	5.088E-06	1.323E-05	3200
106.0	0.4	79482	5.299E-06	1.378E-05	3200
106.0	0.8	77591	5.173E-06	1.345E-05	3200
106.0	1.5	76011	5.067E-06	1.318E-05	3200
106.0	3.1	80762	5.384E-06	1.400E-05	3200
106.0	6.2	71196	4.746E-06	1.234E-05	3200
106.0	9.3	59694	3.980E-06	1.035E-05	3200
106.0	12.4	51451	3.430E-06	8.918E-06	3200
106.0	15.5	33551	2.237E-06	5.816E-06	3200
106.0	18.6	18577	1.239E-06	3.220E-06	3200
106.0	21.7	6957	4.638E-07	1.206E-06	3200
106.0	24.8	1458	9.724E-08	2.528E-07	3200
106.0	31.0	19	1.303E-09	3.388E-09	3200
106.0	43.2	44	2.957E-09	7.689E-09	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/Q SEC/CM.	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.2	88816	3.241E-06	8.427E-06	3200
114.0	0.4	58426	3.895E-06	1.013E-05	3200
114.0	0.8	59442	3.963E-06	1.030E-05	3200
114.0	1.5	52928	3.529E-06	9.174E-06	3200
114.0	3.1	52502	3.500E-06	9.100E-06	3200
114.0	6.2	69934	4.662E-06	1.212E-05	3200
114.0	9.3	94543	6.303E-06	1.639E-05	3200
114.0	12.4	99566	6.638E-06	1.726E-05	3200
114.0	15.5	90593	6.040E-06	1.570E-05	3200
114.0	18.6	78061	5.204E-06	1.353E-05	3200
114.0	21.7	65393	4.360E-06	1.133E-05	3200
114.0	24.8	38832	2.589E-06	6.731E-06	3200
114.0	31.0	11503	7.669E-07	1.994E-06	3200
114.0	37.2	1369	9.132E-08	2.374E-07	3200
114.0	43.4	80	5.363E-09	1.394E-08	3200
114.0	49.6	6	4.467E-10	1.161E-09	3200
114.0	55.8	24	1.638E-09	4.258E-09	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/Q SEC/CM.	EU/Q 1/SQ.M	DISTANCE METERS
122.0	1.5	13	8.724E-10	2.268E-09	3200
122.0	6.2	33	2.210E-09	5.746E-09	3200
122.0	9.3	19	1.280E-09	3.327E-09	3200
122.0	12.4	187	1.250E-08	3.251E-08	3200
122.0	15.5	726	4.845E-08	1.260E-07	3200
122.0	18.6	2357	1.572E-07	4.086E-07	3200
122.0	21.7	5468	3.646E-07	9.479E-07	3200
122.0	24.8	8844	5.896E-07	1.533E-06	3200
122.0	31.0	12624	8.416E-07	2.188E-06	3200
122.0	37.2	8282	5.522E-07	1.436E-06	3200
122.0	43.4	2620	1.747E-07	4.542E-07	3200
122.0	49.6	117	7.817E-09	2.032E-08	3200
122.0	55.8	12	8.561E-10	2.226E-09	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	E/Q SEC/CM.	EU/Q 1/SQ.M	DISTANCE METERS
130.0	21.7	20	1.338E-09	3.478E-09	3200
130.0	31.0	27	1.855E-09	4.822E-09	3200

SECONDARY SERIES EXPERIMENT: X-4
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS.

TEST X4 APRIL 21, 1964 0436 TO 0502 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 7M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	FL/G 1/SG	DISTANCE METERS
68.0	56	2.945E-08	7.656E-08	200
70.0	2800	1.400E-06	3.640E-06	200
72.0	41680	2.084E-05	5.419E-05	200
74.0	122566	6.128E-05	1.593E-04	200
76.0	154335	7.717E-05	2.006E-04	200
78.0	265803	1.329E-04	3.455E-04	200
80.0	309802	1.549E-04	4.028E-04	200
82.0	131844	6.592E-05	1.714E-04	200
84.0	397780	1.989E-04	5.171E-04	200
86.0	937163	4.686E-04	1.218E-03	200
88.0	1022447	5.112E-04	1.329E-03	200
90.0	755761	3.779E-04	9.825E-04	200
92.0	771891	3.859E-04	1.003E-03	200
94.0	741314	3.707E-04	9.637E-04	200
96.0	649010	3.245E-04	8.437E-04	200
98.0	349877	1.749E-04	4.588E-04	200
100.0	312215	1.561E-04	4.059E-04	200
102.0	219720	1.099E-04	2.856E-04	200
104.0	157150	7.858E-05	2.043E-04	200
106.0	83267	4.163E-05	1.082E-04	200
108.0	81509	4.075E-05	1.060E-04	200
110.0	43618	2.181E-05	5.670E-05	200
112.0	16528	8.264E-06	2.149E-05	200
114.0	8471	4.236E-06	1.101E-05	200
116.0	8970	2.485E-06	6.462E-06	200
118.0	1054	5.271E-07	1.370E-06	200
120.0	318	1.590E-07	4.134E-07	200
122.0	138	6.920E-08	1.799E-07	200

CROSSWIND INTEGRATED= 2.647E-02 SEC/90.0
1/M

TOWER DATA FOLLOW....

TEST X4 APRIL 21, 1964 0436 TO 0502 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
200M ARC U= 2.6 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	FL/G 1/SG	DISTANCE METERS
98.0	0.3	460441	2.302E-04	5.986E-04	200
98.0	0.7	459488	2.297E-04	5.973E-04	200
98.0	1.4	359081	1.795E-04	4.668E-04	200
98.0	2.7	373853	1.865E-04	4.860E-04	200
98.0	4.1	402663	2.013E-04	5.235E-04	200
98.0	5.4	370587	1.853E-04	4.818E-04	200
98.0	6.8	331371	1.657E-04	4.308E-04	200
98.0	8.1	345178	1.726E-04	4.487E-04	200
98.0	10.8	241485	1.207E-04	3.139E-04	200
98.0	13.5	163821	8.191E-05	2.137E-04	200
98.0	16.2	118942	5.947E-05	1.546E-04	200
98.0	18.9	84916	4.246E-05	1.104E-04	200
98.0	21.6	84191	4.210E-05	1.094E-04	200
98.0	24.3	50721	2.536E-05	6.594E-05	200
98.0	27.0	39511	1.976E-05	5.137E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	FL/G 1/SG	DISTANCE METERS
106.0	0.3	95778	4.789E-05	1.245E-04	200
106.0	0.7	112160	5.608E-05	1.458E-04	200
106.0	1.4	83576	4.179E-05	1.086E-04	200
106.0	2.7	78885	3.944E-05	1.026E-04	200
106.0	4.1	64084	3.204E-05	8.331E-05	200
106.0	5.4	60802	3.046E-05	7.904E-05	200
106.0	6.8	63157	3.158E-05	8.210E-05	200
106.0	8.1	61570	3.075E-05	8.004E-05	200
106.0	9.4	50600	2.532E-05	6.583E-05	200
106.0	10.8	55767	2.785E-05	7.242E-05	200
106.0	13.5	45927	2.296E-05	5.971E-05	200
106.0	16.2	41828	2.091E-05	5.438E-05	200
106.0	18.9	30800	1.540E-05	4.004E-05	200
106.0	21.6	21862	1.093E-05	2.842E-05	200
106.0	24.3	12244	6.147E-06	1.594E-05	200
106.0	27.0	7126	3.563E-06	9.264E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	FL/G 1/SG	DISTANCE METERS
114.0	0.3	8042	4.021E-06	1.046E-05	200
114.0	0.7	8881	4.491E-06	1.168E-05	200
114.0	1.4	5952	2.976E-06	7.739E-06	200
114.0	2.7	5438	2.718E-06	7.067E-06	200
114.0	4.1	3270	1.635E-06	4.252E-06	200
114.0	5.4	6332	3.166E-06	8.232E-06	200
114.0	6.8	5555	2.778E-06	7.222E-06	200
114.0	8.1	4044	2.002E-06	5.206E-06	200
114.0	9.4	3892	1.946E-06	5.060E-06	200
114.0	10.8	4062	2.031E-06	5.282E-06	200
114.0	13.5	2058	1.029E-06	2.676E-06	200
114.0	16.2	4170	2.085E-06	5.422E-06	200
114.0	18.9	2698	1.349E-06	3.507E-06	200
114.0	21.6	4884	2.442E-06	6.350E-06	200
114.0	24.3	3891	1.946E-06	5.059E-06	200
114.0	27.0	1908	9.541E-07	2.481E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	FL/G 1/SG	DISTANCE METERS
122.0	4.1	202	1.010E-07	2.626E-07	200
122.0	5.4	444	2.222E-07	5.778E-07	200
122.0	6.8	269	1.347E-07	3.502E-07	200
122.0	8.1	130	6.509E-08	1.692E-07	200
122.0	9.4	186	9.315E-08	2.422E-07	200
122.0	10.8	215	1.077E-07	2.801E-07	200
122.0	13.5	150	7.519E-08	1.955E-07	200
122.0	16.2	152	7.632E-08	1.984E-07	200
122.0	18.9	24	1.235E-08	3.210E-08	200
122.0	21.6	31	1.571E-08	4.085E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	FL/G 1/SG	DISTANCE METERS
130.0	4.1	168	8.417E-08	2.189E-07	200
130.0	5.4	161	8.081E-08	2.101E-07	200
130.0	6.8	145	7.295E-08	1.897E-07	200
130.0	8.1	112	5.612E-08	1.459E-07	200
130.0	9.4	130	6.509E-08	1.692E-07	200
130.0	10.8	127	6.397E-08	1.663E-07	200
130.0	13.5	96	4.826E-08	1.255E-07	200

TEST X4 APRIL 21, 1964 0436 TO 0502 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
ROOM ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
Q 74.0	176	8.830E-08	2.296E-07	800	
Q 76.0	999	4.999E-07	1.300E-06	800	
Q 78.0	8610	4.305E-06	1.119E-05	800	
80.0	18485	9.243E-06	2.403E-05	800	
82.0	30947	1.547E-05	4.023E-05	800	
84.0	46867	2.343E-05	6.093E-05	800	
86.0	56016	2.801E-05	7.282E-05	800	
88.0	73795	3.690E-05	9.593E-05	800	
90.0	70847	3.544E-05	9.215E-05	800	
92.0	64364	3.218E-05	8.367E-05	800	
94.0	63108	3.155E-05	8.204E-05	800	
96.0	73337	3.667E-05	9.534E-05	800	
98.0	67346	3.367E-05	8.755E-05	800	
100.0	56064	2.803E-05	7.288E-05	800	
102.0	26264	1.313E-05	3.414E-05	800	
104.0	6964	3.482E-06	9.054E-06	800	
106.0	1219	6.096E-07	1.585E-06	800	
108.0	581	2.905E-07	7.554E-07	800	

CROSSWIND INTEGRATED= 9.300E-03 2.418E-02
SEC/80.M 1/M

TOWER DATA FULLC....

TEST X4 APRIL 21, 1964 0436 TO 0502 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
ROOM ARC U= 2.6 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.3	53386	2.665E-05	6.940E-05	800
98.0	0.5	53704	2.685E-05	6.982E-05	800
98.0	1.0	45926	2.296E-05	5.970E-05	800
98.0	2.1	52496	2.625E-05	6.825E-05	800
98.0	4.2	53402	2.670E-05	6.942E-05	800
98.0	6.3	54268	2.713E-05	7.055E-05	800
98.0	8.4	59297	2.965E-05	7.709E-05	800
98.0	10.5	55782	2.789E-05	7.252E-05	800
98.0	12.6	50662	2.533E-05	6.586E-05	800
98.0	14.7	51409	2.570E-05	6.683E-05	800
98.0	16.8	44311	2.216E-05	5.760E-05	800
98.0	21.0	37245	1.862E-05	4.842E-05	800
98.0	25.2	22825	1.141E-05	2.967E-05	800
98.0	29.4	16379	8.190E-06	2.129E-05	800
98.0	33.6	16241	8.121E-06	2.111E-05	800
98.0	37.8	13392	6.696E-06	1.741E-05	800
98.0	42.0	11404	5.702E-06	1.483E-05	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.3	1523	7.617E-07	1.981E-06	800
106.0	0.5	898	4.492E-07	1.168E-06	800
106.0	1.0	779	3.897E-07	1.013E-06	800
106.0	2.1	959	4.799E-07	1.249E-06	800
106.0	4.2	1161	5.808E-07	1.510E-06	800
106.0	6.3	1424	7.122E-07	1.852E-06	800
106.0	8.4	1663	8.316E-07	2.162E-06	800
106.0	10.5	1719	8.598E-07	2.236E-06	800
106.0	12.6	1988	9.944E-07	2.586E-06	800
106.0	14.7	2245	1.123E-06	2.919E-06	800
106.0	16.8	2073	1.077E-06	2.696E-06	800
106.0	21.0	2848	1.424E-06	3.703E-06	800
106.0	25.2	2315	1.158E-06	3.010E-06	800
106.0	29.4	2705	1.353E-06	3.517E-06	800
106.0	33.6	1993	9.967E-07	2.591E-06	800
106.0	37.8	2383	1.192E-06	3.099E-06	800
106.0	42.0	1893	9.469E-07	2.462E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
114.0	4.2	395	1.976E-07	5.137E-07	800
114.0	6.3	219	1.096E-07	2.851E-07	800
114.0	8.4	136	6.840E-08	1.778E-07	800
114.0	10.5	186	9.336E-08	2.427E-07	800
114.0	12.6	167	6.359E-08	2.173E-07	800
114.0	14.7	80	4.017E-08	1.044E-07	800
114.0	16.8	136	6.840E-08	1.778E-07	800
114.0	21.0	54	2.714E-08	7.057E-08	800
114.0	25.2	22	1.149E-08	2.987E-08	800
114.0	29.4	91	4.596E-08	1.195E-07	800
114.0	33.6	32	1.628E-08	4.232E-08	800
114.0	37.8	40	2.011E-08	5.228E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
122.0	4.2	293	1.466E-07	3.811E-07	800
122.0	6.3	62	3.148E-08	8.186E-08	800
D 122.0	8.4	54	2.714E-08	7.057E-08	800
122.0	10.5	141	7.057E-08	1.835E-07	800
122.0	12.6	136	6.840E-08	1.778E-07	800
T 122.0	14.7	149	7.491E-08	1.948E-07	800
122.0	16.8	54	2.714E-08	7.057E-08	800
122.0	21.0	188	9.445E-08	2.456E-07	800
122.0	25.2	22	1.149E-08	2.987E-08	800
122.0	29.4	95	4.787E-08	1.245E-07	800
122.0	33.6	49	2.489E-08	6.472E-08	800
122.0	37.8	28	1.436E-08	3.734E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
130.0	4.2	58	2.931E-08	7.621E-08	800
130.0	6.3	21	1.086E-08	2.823E-08	800
130.0	8.4	62	3.148E-08	8.186E-08	800
130.0	10.5	34	1.737E-08	4.516E-08	800
130.0	12.6	75	3.800E-08	9.879E-08	800
130.0	14.7	84	4.234E-08	1.101E-07	800
130.0	16.8	56	2.823E-08	7.339E-08	800
130.0	21.0	39	1.954E-08	5.081E-08	800
130.0	25.2	24	1.245E-08	3.236E-08	800
130.0	29.4	65	3.255E-08	8.464E-08	800
130.0	33.6	51	2.585E-08	6.721E-08	800

TEST X4 APRIL 21, 1964 0436 TO 0502 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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77.0	61	3.074E-08	7.992E-08	1600	
78.0	557	2.787E-07	7.246E-07	1600	
79.0	1301	6.506E-07	1.692E-06	1600	
80.0	2270	1.135E-06	2.952E-06	1600	
81.0	3139	1.570E-06	4.081E-06	1600	
82.0	2717	1.359E-06	3.532E-06	1600	
83.0	3436	1.718E-06	4.468E-06	1600	
84.0	4524	2.262E-06	5.882E-06	1600	
85.0	4137	2.069E-06	5.379E-06	1600	
86.0	3584	1.792E-06	4.659E-06	1600	
87.0	5909	2.955E-06	7.683E-06	1600	
88.0	6754	3.377E-06	8.780E-06	1600	
89.0	8000	4.000E-06	1.040E-05	1600	
90.0	8137	4.069E-06	1.058E-05	1600	
91.0	8774	4.387E-06	1.141E-05	1600	
92.0	9461	4.731E-06	1.230E-05	1600	
93.0	11205	5.603E-06	1.457E-05	1600	
94.0	12379	6.190E-06	1.609E-05	1600	
95.0	11711	5.856E-06	1.522E-05	1600	
96.0	12260	6.112E-06	1.594E-05	1600	
97.0	14069	7.035E-06	1.829E-05	1600	
98.0	13981	6.991E-06	1.818E-05	1600	
99.0	14623	7.312E-06	1.901E-05	1600	
100.0	14766	7.383E-06	1.920E-05	1600	
101.0	15037	7.519E-06	1.955E-05	1600	
102.0	16194	8.097E-06	2.105E-05	1600	
103.0	11680	5.840E-06	1.518E-05	1600	
104.0	6235	3.118E-06	8.107E-06	1600	
105.0	3680	1.840E-06	4.785E-06	1600	
106.0	2213	1.167E-06	2.877E-06	1600	
107.0	1424	7.121E-07	1.851E-06	1600	
108.0	829	4.150E-07	1.079E-06	1600	
109.0	391	1.957E-07	5.088E-07	1600	
110.0	90	4.508E-08	1.172E-07	1600	

CROSSWIND INTEGRATED= 3.289E-03 SEC/90.M
8.551E-03 1/M

TOWER DATA FOLLOWING...

TEST X4 APRIL 21, 1964 0436 TO 0502 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
1600M ARC U= 2.6 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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98.0	0.2	11279	5.640E-06	1.466E-05	1600
98.0	0.4	12979	6.490E-06	1.667E-05	1600
98.0	0.8	13106	6.553E-06	1.704E-05	1600
98.0	1.5	13082	6.541E-06	1.701E-05	1600
98.0	3.1	13899	6.950E-06	1.807E-05	1600
98.0	6.2	12618	6.309E-06	1.640E-05	1600
98.0	9.3	14093	7.047E-06	1.832E-05	1600
98.0	12.4	15969	7.985E-06	2.076E-05	1600
98.0	15.5	14607	7.304E-06	1.899E-05	1600
98.0	18.6	9068	4.534E-06	1.179E-05	1600
98.0	21.7	10894	5.447E-06	1.416E-05	1600
98.0	24.8	11265	5.633E-06	1.465E-05	1600
98.0	31.0	8993	4.497E-06	1.169E-05	1600
98.0	37.2	6726	3.363E-06	8.744E-06	1600
98.0	43.4	6202	3.101E-06	8.063E-06	1600
98.0	49.6	2932	1.466E-06	3.812E-06	1600
98.0	55.8	2728	1.363E-06	3.545E-06	1600
98.0	62.0	2090	1.045E-06	2.718E-06	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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106.0	0.2	1137	5.689E-07	1.479E-06	1600
106.0	0.4	1470	7.353E-07	1.912E-06	1600
106.0	0.8	1745	8.727E-07	2.269E-06	1600
106.0	1.5	1564	7.825E-07	2.034E-06	1600
106.0	3.1	2144	1.072E-06	2.788E-06	1600
106.0	6.2	2291	1.146E-06	2.979E-06	1600
106.0	9.3	1971	9.859E-07	2.563E-06	1600
106.0	12.4	2191	1.096E-06	2.850E-06	1600
106.0	15.5	2250	1.125E-06	2.926E-06	1600
106.0	18.6	2277	1.139E-06	2.961E-06	1600
106.0	21.7	2397	1.195E-06	3.116E-06	1600
106.0	24.8	2161	1.081E-06	2.810E-06	1600
106.0	31.0	1499	7.047E-07	1.832E-06	1600
106.0	37.2	1625	8.127E-07	2.113E-06	1600
106.0	43.4	1540	7.704E-07	2.003E-06	1600
106.0	49.6	1150	5.750E-07	1.495E-06	1600
106.0	55.8	897	4.488E-07	1.167E-06	1600
106.0	62.0	876	4.383E-07	1.140E-06	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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114.0	3.1	134	6.724E-08	1.748E-07	1600
114.0	6.2	92	4.623E-08	1.202E-07	1600
114.0	9.3	131	6.556E-08	1.704E-07	1600
114.0	12.4	89	4.455E-08	1.158E-07	1600
114.0	15.5	189	9.497E-08	2.469E-07	1600
114.0	18.6	260	1.303E-07	3.387E-07	1600
114.0	21.7	73	3.699E-08	9.615E-08	1600
114.0	24.8	13	6.797E-09	1.767E-08	1600
114.0	31.0	12	6.042E-09	1.571E-08	1600
114.0	37.2	74	3.701E-08	9.622E-08	1600
114.0	43.4	34	1.737E-08	4.517E-08	1600
114.0	49.6	10	5.259E-09	1.367E-08	1600
114.0	55.8	16	8.181E-09	2.127E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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122.0	3.1	55	2.774E-08	7.211E-08	1600
122.0	6.2	36	1.849E-08	4.808E-08	1600
122.0	9.3	33	1.681E-08	4.371E-08	1600
122.0	12.4	43	2.185E-08	5.682E-08	1600
122.0	15.5	79	3.950E-08	1.027E-07	1600
122.0	18.6	87	4.371E-08	1.136E-07	1600
122.0	21.7	26	1.345E-08	3.496E-08	1600
122.0	24.8	48	2.417E-08	6.284E-08	1600
122.0	31.0	24	1.202E-08	3.142E-08	1600
122.0	37.2	12	6.042E-09	1.571E-08	1600
122.0	43.4	34	1.737E-08	4.517E-08	1600
122.0	49.6	26	1.344E-08	3.495E-08	1600
122.0	55.8	26	1.344E-08	3.495E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
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130.0	3.1	21	1.093E-08	2.841E-08	1600
130.0	6.2	25	1.261E-08	3.278E-08	1600
130.0	12.4	67	3.362E-08	8.741E-08	1600
130.0	15.5	43	2.185E-08	5.682E-08	1600
130.0	18.6	50	2.521E-08	6.556E-08	1600
130.0	21.7	43	2.185E-08	5.682E-08	1600
130.0	24.8	34	1.737E-08	4.517E-08	1600
130.0	31.0	15	7.553E-09	1.964E-08	1600
130.0	49.6	19	9.934E-09	2.583E-08	1600

TEST X4 APRIL 21, 1968 0436 TO 0502 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
71.0	13	6.796E-09	1.767E-08	3200	
72.0	8	4.369E-09	1.136E-08	3200	
73.0	34	1.748E-08	4.544E-08	3200	
81.0	15	7.767E-09	2.019E-08	3200	
84.0	14	7.282E-09	1.893E-08	3200	
85.0	30	1.505E-08	3.913E-08	3200	
86.0	116	5.825E-08	1.515E-07	3200	
87.0	308	1.544E-07	4.014E-07	3200	
88.0	533	2.670E-07	6.942E-07	3200	
89.0	608	3.044E-07	7.914E-07	3200	
90.0	807	4.039E-07	1.050E-06	3200	
91.0	980	4.903E-07	1.275E-06	3200	
92.0	1088	5.442E-07	1.415E-06	3200	
93.0	1123	5.617E-07	1.460E-06	3200	
94.0	1377	6.888E-07	1.791E-06	3200	
95.0	1317	6.587E-07	1.713E-06	3200	
96.0	2138	1.069E-06	2.780E-06	3200	
97.0	2293	1.147E-06	2.981E-06	3200	
98.0	2108	1.054E-06	2.741E-06	3200	
99.0	2115	1.058E-06	2.750E-06	3200	
100.0	2716	1.358E-06	3.531E-06	3200	
101.0	3345	1.673E-06	4.349E-06	3200	
102.0	4719	2.360E-06	6.135E-06	3200	
103.0	6434	3.217E-06	8.365E-06	3200	
104.0	6683	3.342E-06	8.689E-06	3200	
105.0	5333	2.667E-06	6.934E-06	3200	
106.0	2953	1.477E-06	3.839E-06	3200	
107.0	1032	5.160E-07	1.342E-06	3200	
108.0	366	1.835E-07	4.771E-07	3200	
109.0	47	2.379E-08	6.184E-08	3200	
110.0	30	1.505E-08	3.913E-08	3200	

CROSSWIND INTEGRATED= 1.422E-03 SEC/90.M
3.696E-03 1/M

TOWER DATA FOLLOW...

TEST X4 APRIL 21, 1968 0436 TO 0502 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M
3200M ARC U= 2.6 M/SEC AT 7M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0.2	1541	7.906E-07	2.055E-06	3200
98.0	0.4	1771	8.859E-07	2.303E-06	3200
98.0	0.8	2079	1.040E-06	2.703E-06	3200
98.0	1.5	1996	9.981E-07	2.595E-06	3200
98.0	3.1	2025	1.013E-06	2.634E-06	3200
98.0	6.2	2126	1.063E-06	2.765E-06	3200
98.0	9.3	2510	1.265E-06	3.290E-06	3200
98.0	12.4	2544	1.272E-06	3.308E-06	3200
98.0	15.5	2663	1.332E-06	3.462E-06	3200
98.0	18.6	2301	1.151E-06	2.991E-06	3200
98.0	21.7	2454	1.227E-06	3.190E-06	3200
98.0	24.8	2306	1.173E-06	3.051E-06	3200
98.0	31.0	2528	1.264E-06	3.287E-06	3200
98.0	37.2	1427	9.139E-07	2.376E-06	3200
98.0	43.4	1653	8.266E-07	2.149E-06	3200
98.0	49.6	1179	5.897E-07	1.533E-06	3200
98.0	55.8	1073	5.366E-07	1.395E-06	3200
98.0	62.0	778	3.894E-07	1.012E-06	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.2	2343	1.172E-06	3.047E-06	3200
106.0	0.4	3370	1.685E-06	4.381E-06	3200
106.0	0.8	3015	1.508E-06	3.920E-06	3200
106.0	1.5	2682	1.341E-06	3.488E-06	3200
106.0	3.1	3074	1.537E-06	3.997E-06	3200
106.0	6.2	3445	1.743E-06	4.531E-06	3200
106.0	9.3	4156	2.078E-06	5.403E-06	3200
106.0	12.4	4650	2.325E-06	6.044E-06	3200
106.0	15.5	4635	2.318E-06	6.026E-06	3200
106.0	18.6	4820	2.410E-06	6.267E-06	3200
106.0	21.7	5115	2.558E-06	6.650E-06	3200
106.0	24.8	4156	2.078E-06	5.403E-06	3200
106.0	31.0	4920	2.460E-06	6.397E-06	3200
106.0	37.2	4010	2.005E-06	5.214E-06	3200
106.0	43.4	3478	1.735E-06	4.522E-06	3200
106.0	49.6	3547	1.774E-06	4.612E-06	3200
106.0	55.8	2828	1.440E-06	3.755E-06	3200
106.0	62.0	674	3.371E-07	8.765E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.2	9	4.587E-09	1.193E-08	3200
114.0	0.4	80	4.027E-08	1.047E-07	3200
114.0	1.5	18	9.267E-09	2.410E-08	3200
114.0	18.6	20	1.019E-08	2.650E-08	3200
114.0	21.7	23	1.158E-08	3.012E-08	3200
114.0	37.2	22	1.134E-08	2.949E-08	3200
114.0	62.0	26	1.335E-08	3.471E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
122.0	3.1	23	1.158E-08	3.012E-08	3200
122.0	6.2	14	7.414E-09	1.928E-08	3200
122.0	9.3	18	9.267E-09	2.410E-08	3200
122.0	12.4	33	1.668E-08	4.337E-08	3200
122.0	15.5	18	9.267E-09	2.410E-08	3200
122.0	18.6	19	9.731E-09	2.530E-08	3200
122.0	21.7	13	6.951E-09	1.807E-08	3200
122.0	24.8	46	2.312E-08	6.011E-08	3200
122.0	31.0	20	1.047E-08	2.722E-08	3200
122.0	37.2	8	4.362E-09	1.134E-08	3200
122.0	43.4	14	7.416E-09	1.928E-08	3200
122.0	55.8	17	8.901E-09	2.314E-08	3200
122.0	62.0	26	1.409E-08	3.664E-08	3200

SECONDARY SERIES EXPERIMENT: XE-1
GROUND LEVEL AND TOWER SAMPLING 200-3200 M ARCS. A SIGNIFICANT
PORTION OF THE PLUME NEVER PASSED OVER THE GRID.

TEST XE1 JANUARY 21, 1965 2235 TO 2305 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 1.5 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
68.0	196171	1.691E-04	2.537E-04	200
70.0	618394	5.331E-04	7.996E-04	200
72.0	701085	6.044E-04	9.066E-04	200
74.0	538505	4.642E-04	6.963E-04	200
76.0	345183	2.976E-04	4.464E-04	200
78.0	190164	1.639E-04	2.459E-04	200
80.0	135899	1.172E-04	1.757E-04	200
82.0	85813	7.398E-05	1.110E-04	200
84.0	49372	4.256E-05	6.384E-05	200
86.0	43346	3.717E-05	5.605E-05	200
88.0	44492	4.140E-05	6.271E-05	200
90.0	43915	3.708E-05	5.562E-05	200
92.0	52993	4.564E-05	6.853E-05	200
94.0	59520	5.131E-05	7.697E-05	200
96.0	37994	3.275E-05	4.913E-05	200
98.0	16302	1.405E-05	2.108E-05	200
100.0	94203	8.121E-05	1.218E-04	200
102.0	117746	1.015E-04	1.523E-04	200
104.0	120146	1.036E-04	1.554E-04	200
106.0	101453	8.746E-05	1.312E-04	200
108.0	107290	9.249E-05	1.387E-04	200
110.0	74393	6.413E-05	9.620E-05	200
112.0	35396	3.051E-05	4.577E-05	200
114.0	15836	1.365E-05	2.048E-05	200
116.0	1496	1.290E-06	1.936E-06	200

CROSSWIND INTEGRATED= 2.305E-02 3.458E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW.....

TEST XE1 JANUARY 21, 1965 2235 TO 2305 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 1.5 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
58.0	0.3	6230P	5.375E-05	8.062E-05	200
58.0	0.7	85701	7.388E-05	1.108E-04	200
58.0	1.4	56057	4.833E-05	7.249E-05	200
58.0	2.7	48095	4.146E-05	6.219E-05	200
58.0	4.1	1470	1.268E-06	1.902E-06	200
58.0	5.4	77412	6.674E-05	1.001E-04	200
58.0	6.8	72094	6.215E-05	9.323E-05	200
58.0	8.1	59528	5.132E-05	7.697E-05	200
58.0	9.4	47940	4.133E-05	6.199E-05	200
58.0	10.8	33136	2.857E-05	4.285E-05	200
58.0	13.5	7247	6.248E-06	9.372E-06	200
58.0	16.2	286A	2.473E-06	3.710E-06	200
58.0	18.9	575	4.964E-07	7.446E-07	200
58.0	21.6	28	2.482E-08	3.723E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0.3	84896	7.314E-05	1.098E-04	200
106.0	0.7	63235	5.451E-05	8.177E-05	200
106.0	1.4	104014	8.969E-05	1.345E-04	200
106.0	2.7	117095	1.009E-04	1.514E-04	200
106.0	4.1	115391	9.948E-05	1.492E-04	200
106.0	5.4	117470	1.016E-04	1.524E-04	200
106.0	6.8	124154	1.070E-04	1.605E-04	200
106.0	8.1	109107	9.406E-05	1.411E-04	200
106.0	9.4	83953	7.237E-05	1.086E-04	200
106.0	10.8	51058	4.402E-05	6.602E-05	200
106.0	13.5	10866	8.678E-06	1.302E-05	200
106.0	16.2	696	6.002E-07	9.003E-07	200
106.0	18.9	138	1.196E-07	1.794E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	0.3	4484	3.866E-06	5.798E-06	200
114.0	0.7	49	4.265E-08	6.397E-08	200
114.0	1.4	287	2.482E-07	3.723E-07	200
114.0	2.7	35871	3.092E-05	4.639E-05	200
114.0	4.1	95111	8.199E-05	1.230E-04	200
114.0	5.4	99619	8.588E-05	1.288E-04	200
114.0	6.8	171893	1.482E-04	2.223E-04	200
114.0	8.1	153883	1.327E-04	1.990E-04	200
114.0	9.4	99930	8.615E-05	1.292E-04	200
114.0	10.8	55170	4.756E-05	7.134E-05	200
114.0	13.5	9030	7.785E-06	1.168E-05	200

TEST XE1 JANUARY 21, 1965 2235 TO 2305 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 1.5 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
70.0		78848	6.797E-05	1.020E-04	800
72.0		93337	8.046E-05	1.207E-04	800
74.0		81762	7.049E-05	1.057E-04	800
76.0		91594	7.896E-05	1.184E-04	800
78.0		66474	5.731E-05	8.596E-05	800
80.0		37116	3.200E-05	4.800E-05	800
82.0		18016	1.553E-05	2.330E-05	800
84.0		13892	1.198E-05	1.796E-05	800
86.0		9396	8.100E-06	1.215E-05	800
88.0		7802	6.726E-06	1.009E-05	800
90.0		6963	6.003E-06	9.005E-06	800
92.0		6463	5.572E-06	8.358E-06	800
94.0		7246	6.247E-06	9.370E-06	800
96.0		6099	5.258E-06	7.887E-06	800
98.0		6307	5.438E-06	8.157E-06	800
100.0		5186	4.471E-06	6.706E-06	800
102.0		4682	4.037E-06	6.055E-06	800
104.0		3293	2.839E-06	4.259E-06	800
106.0		2212	1.907E-06	2.861E-06	800
108.0		1000	8.625E-07	1.294E-06	800
110.0		335	2.893E-07	4.340E-07	800
112.0		142	1.232E-07	1.848E-07	800

CROSSWIND INTEGRATED= 1.320E-02 1.979E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST XE1 JANUARY 21, 1965 2235 TO 2305 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC U= 1.5 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/80.M	DISTANCE METERS
98.0	0.3	5595	4.824E-06	7.235E-06	800
98.0	0.5	5424	4.676E-06	7.014E-06	800
98.0	1.0	4285	3.660E-06	5.490E-06	800
98.0	2.1	4797	4.136E-06	6.204E-06	800
98.0	4.2	9418	8.119E-06	1.218E-05	800
98.0	6.3	6522	5.623E-06	8.434E-06	800
98.0	8.4	6233	5.374E-06	8.061E-06	800
98.0	10.5	6261	5.398E-06	8.097E-06	800
98.0	12.6	6344	5.470E-06	8.205E-06	800
98.0	14.7	4982	4.295E-06	6.443E-06	800
98.0	16.8	4207	3.628E-06	5.441E-06	800
98.0	21.0	2909	2.508E-06	3.762E-06	800
98.0	25.2	809	7.672E-07	1.151E-06	800
98.0	29.4	435	3.756E-07	5.634E-07	800
98.0	33.6	59	5.162E-08	7.743E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/80.M	DISTANCE METERS
106.0	0.3	898	7.750E-07	1.162E-06	800
106.0	0.5	987	8.516E-07	1.277E-06	800
106.0	1.0	1048	9.036E-07	1.355E-06	800
106.0	2.1	1800	1.552E-06	2.328E-06	800
106.0	4.2	3731	3.217E-06	4.826E-06	800
106.0	6.3	5592	4.821E-06	7.232E-06	800
106.0	8.4	6395	7.238E-06	1.086E-05	800
106.0	10.5	6937	5.980E-06	8.971E-06	800
106.0	12.6	8109	6.991E-06	1.049E-05	800
106.0	14.7	5023	4.330E-06	6.496E-06	800
106.0	16.8	4091	3.527E-06	5.291E-06	800
106.0	21.0	800	6.897E-07	1.035E-06	800
106.0	25.2	262	2.261E-07	3.391E-07	800
106.0	29.4	152	1.317E-07	1.976E-07	800
106.0	33.6	66	5.696E-08	8.544E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/80.M	DISTANCE METERS
114.0	2.1	37	3.274E-08	4.911E-08	800
114.0	4.2	392	3.383E-07	5.075E-07	800
114.0	6.3	724	6.242E-07	9.364E-07	800
114.0	8.4	2220	1.914E-06	2.871E-06	800
114.0	10.5	4881	4.208E-06	6.312E-06	800
114.0	12.6	7289	6.284E-06	9.426E-06	800
114.0	14.7	7119	6.138E-06	9.206E-06	800
114.0	16.8	4562	3.933E-06	5.908E-06	800
114.0	21.0	1010	8.709E-07	1.306E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/80.M	DISTANCE METERS
122.0	0.3	181	1.562E-07	2.343E-07	800
122.0	1.0	17	1.528E-08	2.292E-08	800
122.0	2.1	27	2.401E-08	3.601E-08	800
122.0	4.2	53	4.584E-08	6.875E-08	800
122.0	6.3	10	8.731E-09	1.310E-08	800
122.0	8.4	17	1.528E-08	2.292E-08	800
122.0	29.4	24	2.136E-08	3.204E-08	800

TEST XE1 JANUARY 21, 1965 2235 TO 2305 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 1.5 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/80.M	DISTANCE METERS
P 70.0	81	7.033E-08	1.055E-07	1600
P 71.0	225	1.943E-07	2.915E-07	1600
P 72.0	55	4.812E-08	7.218E-08	1600
P 73.0	47	4.072E-08	6.107E-08	1600
P 74.0	156	1.351E-07	2.027E-07	1600
P 75.0	103	8.883E-08	1.332E-07	1600
76.0	11340	9.811E-06	1.472E-05	1600
77.0	10442	9.002E-06	1.350E-05	1600
78.0	10055	8.669E-06	1.300E-05	1600
79.0	7711	6.648E-06	9.972E-06	1600
80.0	7140	6.155E-06	9.233E-06	1600
81.0	6925	5.970E-06	8.955E-06	1600
82.0	5545	4.780E-06	7.171E-06	1600
83.0	5448	4.697E-06	7.046E-06	1600
84.0	3877	3.342E-06	5.014E-06	1600
85.0	3744	3.228E-06	4.841E-06	1600
86.0	2756	2.376E-06	3.564E-06	1600
87.0	2535	2.186E-06	3.279E-06	1600
88.0	2460	2.121E-06	3.181E-06	1600
89.0	1957	1.688E-06	2.532E-06	1600
P 93.0	21	1.851E-08	2.776E-08	1600
94.0	897	7.736E-07	1.160E-06	1600
95.0	1021	8.809E-07	1.321E-06	1600
96.0	991	8.550E-07	1.283E-06	1600
97.0	1017	8.772E-07	1.316E-06	1600
98.0	697	6.015E-07	9.022E-07	1600
99.0	903	7.791E-07	1.169E-06	1600
100.0	837	7.218E-07	1.083E-06	1600
101.0	698	5.589E-07	8.384E-07	1600
102.0	661	5.700E-07	8.550E-07	1600
103.0	562	4.849E-07	7.273E-07	1600
104.0	652	5.626E-07	8.439E-07	1600
105.0	751	6.477E-07	9.716E-07	1600
106.0	649	5.941E-07	8.911E-07	1600
107.0	547	4.719E-07	7.079E-07	1600
108.0	485	4.183E-07	6.274E-07	1600
109.0	392	3.387E-07	5.080E-07	1600
110.0	272	2.350E-07	3.526E-07	1600
111.0	339	2.924E-07	4.386E-07	1600
112.0	161	1.388E-07	2.082E-07	1600
113.0	85	7.403E-08	1.110E-07	1600
114.0	55	4.812E-08	7.218E-08	1600
115.0	45	3.886E-08	5.830E-08	1600
117.0	64	5.552E-08	8.328E-08	1600
119.0	27	2.406E-08	3.609E-08	1600
120.0	30	2.591E-08	3.886E-08	1600
121.0	23	2.036E-08	3.054E-08	1600
122.0	130	1.179E-07	1.693E-07	1600
130.0	88	7.588E-08	1.133E-07	1600

CROSSWIND INTEGRATED= 2.397E-03 SEC/SEC, 3.596E-03 1/M

TOWER DATA FOLLOW:....

TEST XE1 JANUARY 21, 1965 2235 TO 2305 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC U= 1.5 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/90,M	DISTANCE METERS
98.0	0.2	703	6.043E-07	9.094E-07	1600
98.0	0.4	834	7.190E-07	1.078E-06	1600
98.0	0.8	766	6.607E-07	9.910E-07	1600
98.0	1.5	597	5.154E-07	7.732E-07	1600
98.0	3.1	766	6.604E-07	9.906E-07	1600
98.0	6.2	1300	1.121E-06	1.682E-06	1600
98.0	9.3	1205	1.039E-06	1.559E-06	1600
98.0	12.4	2152	1.856E-06	2.784E-06	1600
98.0	15.5	1610	1.388E-06	2.082E-06	1600
98.0	18.6	1629	1.405E-06	2.107E-06	1600
98.0	21.7	1593	1.373E-06	2.060E-06	1600
98.0	24.8	966	8.331E-07	1.250E-06	1600
98.0	31.0	363	3.138E-07	4.707E-07	1600
98.0	37.2	227	1.958E-07	2.937E-07	1600
98.0	43.4	51	4.443E-08	6.665E-08	1600
98.0	49.6	33	2.915E-08	4.373E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/90,M	DISTANCE METERS
106.0	0.2	739	6.374E-07	9.561E-07	1600
106.0	0.4	547	4.722E-07	7.083E-07	1600
106.0	0.8	504	4.353E-07	6.529E-07	1600
106.0	1.5	322	2.783E-07	4.175E-07	1600
106.0	3.1	529	4.562E-07	6.842E-07	1600
106.0	6.2	657	5.665E-07	8.497E-07	1600
106.0	9.3	1151	9.930E-07	1.490E-06	1600
106.0	12.4	1289	1.112E-06	1.667E-06	1600
106.0	15.5	741	6.390E-07	9.584E-07	1600
106.0	18.6	653	5.632E-07	8.448E-07	1600
106.0	21.7	617	5.319E-07	7.979E-07	1600
106.0	24.8	563	4.860E-07	7.289E-07	1600
106.0	31.0	252	2.180E-07	3.270E-07	1600
106.0	37.2	98	8.470E-08	1.270E-07	1600
106.0	43.4	48	4.165E-08	6.248E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/90,M	DISTANCE METERS
114.0	0.2	132	1.147E-07	1.720E-07	1600
114.0	0.4	94	8.162E-08	1.224E-07	1600
114.0	0.8	69	6.024E-08	9.036E-08	1600
114.0	1.5	53	4.611E-08	6.917E-08	1600
114.0	3.1	152	1.317E-07	1.976E-07	1600
114.0	6.2	469	4.051E-07	6.077E-07	1600
114.0	9.3	892	7.691E-07	1.154E-06	1600
114.0	12.4	1015	1.220E-06	1.830E-06	1600
114.0	15.5	1134	9.782E-07	1.467E-06	1600
114.0	18.6	712	6.143E-07	9.214E-07	1600
114.0	21.7	248	2.141E-07	3.211E-07	1600
114.0	24.8	127	1.097E-07	1.645E-07	1600
114.0	31.0	37	3.193E-08	4.790E-08	1600
114.0	37.2	35	3.055E-08	4.582E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/90,M	DISTANCE METERS
122.0	0.2	38	3.303E-08	4.955E-08	1600
122.0	0.4	74	6.413E-08	9.619E-08	1600
122.0	0.8	19	1.647E-08	2.470E-08	1600
122.0	12.4	19	1.647E-08	2.470E-08	1600

TEST XE1 JANUARY 21, 1965 2235 TO 2305 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 1.5 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/90,M	DISTANCE METERS
71.0	4366	3.764E-06	5.646E-06	3200
72.0	3637	3.136E-06	4.703E-06	3200
73.0	2918	2.516E-06	3.774E-06	3200
74.0	2773	2.391E-06	3.587E-06	3200
75.0	2319	1.999E-06	2.999E-06	3200
76.0	2423	2.049E-06	3.133E-06	3200
77.0	1909	1.646E-06	2.469E-06	3200
78.0	2062	1.778E-06	2.667E-06	3200
79.0	1579	1.361E-06	2.042E-06	3200
P 80.0	23	2.021E-08	3.032E-08	3200
P 81.0	2	1.758E-09	2.636E-09	3200
P 82.0	7	6.152E-09	9.227E-09	3200
83.0	925	7.980E-07	1.197E-06	3200
84.0	1035	8.929E-07	1.339E-06	3200
85.0	722	6.231E-07	9.346E-07	3200
86.0	758	6.538E-07	9.807E-07	3200
87.0	565	4.877E-07	7.316E-07	3200
88.0	575	4.965E-07	7.448E-07	3200
89.0	573	4.948E-07	7.422E-07	3200
90.0	481	3.805E-07	5.708E-07	3200
91.0	553	4.772E-07	7.158E-07	3200
92.0	511	4.412E-07	6.617E-07	3200
93.0	357	3.085E-07	4.627E-07	3200
94.0	468	4.007E-07	6.011E-07	3200
95.0	307	2.654E-07	3.981E-07	3200
96.0	260	2.250E-07	3.375E-07	3200
97.0	346	2.988E-07	4.482E-07	3200
H 98.0	295	2.549E-07	3.823E-07	3200
H 99.0	229	1.977E-07	2.966E-07	3200
H 100.0	270	2.329E-07	3.493E-07	3200
101.0	327	2.821E-07	4.231E-07	3200
102.0	466	4.025E-07	6.037E-07	3200
103.0	345	2.979E-07	4.469E-07	3200
104.0	395	3.418E-07	5.115E-07	3200
105.0	171	1.476E-07	2.215E-07	3200
106.0	171	1.476E-07	2.215E-07	3200
107.0	188	1.626E-07	2.439E-07	3200
108.0	283	2.403E-07	3.665E-07	3200
109.0	271	2.338E-07	3.506E-07	3200
110.0	312	2.698E-07	4.047E-07	3200
111.0	201	1.740E-07	2.610E-07	3200
112.0	199	1.722E-07	2.584E-07	3200
113.0	98	8.524E-08	1.279E-07	3200
114.0	33	2.900E-08	4.350E-08	3200
115.0	48	4.218E-08	6.327E-08	3200
116.0	24	2.189E-08	3.164E-08	3200
117.0	8	7.030E-09	1.055E-08	3200
118.0	0	0.000E+00	0.000E+00	3200
119.0	11	9.667E-09	1.450E-08	3200

CROSSWIND INTEGRATED= 1.771E-03 SEC/SP,M 2.654E-03 1/M

TOWER DATA FOLLOW....

TEST XE1 JANUARY 21, 1965 2235 TO 2305 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC U= 1.5 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
98.0	0.2	218	1.881E-07	2.821E-07	3200
98.0	0.4	331	1.995E-07	2.992E-07	3200
98.0	0.8	164	1.415E-07	2.122E-07	3200
98.0	1.5	281	2.427E-07	3.641E-07	3200
98.0	3.1	337	2.913E-07	4.369E-07	3200
98.0	6.2	523	4.511E-07	6.767E-07	3200
98.0	9.3	666	5.742E-07	8.612E-07	3200
98.0	12.4	726	6.260E-07	9.391E-07	3200
98.0	15.5	873	7.533E-07	1.130E-06	3200
98.0	18.6	961	8.286E-07	1.243E-06	3200
98.0	21.7	407	6.964E-07	1.045E-06	3200
98.0	24.8	683	5.896E-07	8.844E-07	3200
98.0	31.0	676	5.832E-07	8.748E-07	3200
98.0	37.2	559	4.825E-07	7.238E-07	3200
98.0	43.4	458	3.955E-07	5.932E-07	3200
98.0	49.6	162	1.403E-07	2.104E-07	3200
98.0	55.8	80	6.910E-08	1.037E-07	3200
98.0	62.0	101	8.757E-08	1.314E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
106.0	3.1	99	8.621E-08	1.293E-07	3200
106.0	6.2	214	1.850E-07	2.775E-07	3200
106.0	9.3	553	4.771E-07	7.156E-07	3200
106.0	12.4	519	4.078E-07	6.717E-07	3200
106.0	15.5	347	2.996E-07	4.494E-07	3200
106.0	18.6	502	4.335E-07	6.503E-07	3200
106.0	21.7	A6	7.449E-08	1.117E-07	3200
106.0	24.8	538	4.642E-07	6.963E-07	3200
106.0	31.0	569	4.905E-07	7.358E-07	3200
106.0	37.2	527	4.546E-07	6.819E-07	3200
T 106.0	43.4	44	3.835E-08	5.752E-08	3200
Q 106.0	49.6	166	1.437E-07	2.155E-07	3200
Q 106.0	55.8	61	5.268E-08	7.902E-08	3200
Q 106.0	62.0	30	2.600E-08	3.900E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
114.0	0.2	54	4.658E-08	6.987E-08	3200
114.0	0.4	63	5.449E-08	8.173E-08	3200
114.0	0.8	39	3.427E-08	5.141E-08	3200
114.0	1.5	63	5.440E-08	8.160E-08	3200
114.0	3.1	62	5.357E-08	8.035E-08	3200
114.0	6.2	P5	7.365E-08	1.105E-07	3200
114.0	9.3	140	1.214E-07	1.820E-07	3200
114.0	12.4	162	1.398E-07	2.097E-07	3200
114.0	15.5	238	2.059E-07	3.088E-07	3200
114.0	18.6	159	1.373E-07	2.059E-07	3200
114.0	21.7	13	1.172E-08	1.758E-08	3200
114.0	24.8	88	7.590E-08	1.138E-07	3200
114.0	31.0	47	4.074E-08	6.112E-08	3200
114.0	37.2	48	4.154E-08	6.232E-08	3200
114.0	43.4	105	9.108E-08	1.366E-07	3200
114.0	49.6	81	7.047E-08	1.057E-07	3200
114.0	55.8	23	2.052E-08	3.079E-08	3200
114.0	62.0	20	1.779E-08	2.668E-08	3200

SECONDARY SERIES EXPERIMENT: XE-2
GROUND LEVEL SAMPLING 200-3200 M ARCS.

TEST XE2 FEBRUARY 28, 1965 0235 TO 0305 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 5.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
68.0	14	1.926E-08	1.021E-07	200
70.0	14	1.926E-08	1.021E-07	200
72.0	133	1.753E-07	9.291E-07	200
74.0	2045	2.439E-06	1.399E-05	200
76.0	12434	1.636E-05	8.672E-05	200
78.0	24686	3.248E-05	1.722E-04	200
80.0	51295	6.738E-05	3.571E-04	200
82.0	116854	1.538E-04	8.149E-04	200
84.0	187379	2.466E-04	1.307E-03	200
86.0	249304	3.242E-04	1.739E-03	200
88.0	228783	3.010E-04	1.595E-03	200
90.0	151765	1.997E-04	1.058E-03	200
92.0	80094	1.050E-04	5.86E-04	200
94.0	27439	3.610E-05	1.914E-04	200
96.0	6389	8.407E-06	4.456E-05	200
98.0	1755	2.310E-06	1.224E-05	200
100.0	153	2.023E-07	1.072E-06	200
102.0	16	2.119E-08	1.123E-07	200

CROSSWIND INTEGRATED= 1.008E-02 5.553E-02
SEC/SQ.M 1/M

TEST XE2 FEBRUARY 28, 1965 0235 TO 0305 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 5.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
74.0	0	0.000E+00	0.000E+00	800
76.0	56	7.454E-08	3.551E-07	800
78.0	1151	1.515E-06	8.030E-06	800
80.0	3529	4.644E-06	2.461E-05	800
82.0	9653	1.270E-05	6.732E-05	800
84.0	23994	3.157E-05	1.673E-04	800
86.0	23895	3.144E-05	1.666E-04	800
88.0	10547	1.383E-05	7.327E-05	800
90.0	4621	6.081E-06	3.223E-05	800
92.0	1065	1.401E-06	7.427E-06	800
94.0	223	2.944E-07	1.561E-06	800

CROSSWIND INTEGRATED= 2.892E-03 1.533E-02
SEC/SQ.M 1/M

TEST XE2 FEBRUARY 28, 1965 0235 TO 0305 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 5.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
75.0	22	2.922E-08	1.549E-07	1600
78.0	77	1.015E-07	5.379E-07	1600
79.0	310	4.091E-07	2.168E-06	1600
80.0	801	1.173E-06	6.219E-06	1600
81.0	1277	1.681E-06	8.908E-06	1600
82.0	2642	3.503E-06	1.857E-05	1600
83.0	4237	5.576E-06	2.955E-05	1600
84.0	7123	9.373E-06	4.968E-05	1600
85.0	7075	9.310E-06	4.934E-05	1600
86.0	5234	6.888E-06	3.651E-05	1600
87.0	4336	5.705E-06	3.024E-05	1600
88.0	1871	2.462E-06	1.305E-05	1600
89.0	937	1.233E-06	6.537E-06	1600
90.0	340	4.475E-07	2.372E-06	1600
91.0	205	2.707E-07	1.434E-06	1600
92.0	49	6.459E-08	3.423E-07	1600

CROSSWIND INTEGRATED= 1.351E-03 7.162E-03
SEC/SQ.M 1/M

TEST XE2 FEBRUARY 28, 1965 0235 TO 0305 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 5.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/D SEC/CM ²	EU/D 1/SQ.M	DISTANCE METERS
80.0	136	1.794E-07	9.518E-07	3200
81.0	814	1.072E-06	5.680E-06	3200
82.0	2446	3.211E-06	1.702E-05	3200
83.0	4594	6.045E-06	3.204E-05	3200
84.0	5139	6.763E-06	3.584E-05	3200
85.0	3661	4.827E-06	2.558E-05	3200
86.0	2803	2.634E-06	1.397E-05	3200
87.0	842	1.109E-06	5.876E-06	3200
88.0	305	4.021E-07	2.131E-06	3200
89.0	42	1.043E-07	5.742E-07	3200
90.0	39	5.173E-08	2.742E-07	3200

CROSSWIND INTEGRATED= 1.475E-03 7.816E-03
SEC/SQ.M 1/M

Xenon Data for Xe-2

<u>Position*</u>	<u>E/Q</u>
1-080	7.78-5
1-090	1.95-4
1-100	3.02-7
3-070	2.33-8
3-080	2.19-5
3-090	7.67-7

*Stable grid

SECONDARY SERIES EXPERIMENT: XE-3
ZINC SULFIDE AND FLUOROSCEIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT: XE-3. ZINC FLUORIDE RESULTS ARE PRESENTED HERE.
GROUND LEVEL AND TOWER SAMPLING 200-1600 M ARCS.

TEST XE3 JULY 15, 1965 0255 TO 0259 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 1.7 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
88.0	125	6.206E-07	1.055E-06	200	
90.0	46	2.270E-07	3.660E-07	200	
92.0	12	6.094E-08	1.029E-07	200	
94.0	267	1.317E-06	2.239E-06	200	
96.0	116	5.752E-07	9.778E-07	200	
98.0	110	5.449E-07	9.263E-07	200	
100.0	608	3.194E-06	5.429E-06	200	
102.0	749	3.693E-06	6.278E-06	200	
104.0	1613	7.946E-06	1.351E-05	200	
106.0	9475	4.668E-05	7.936E-05	200	
108.0	20079	9.891E-05	1.682E-04	200	
110.0	71865	3.540E-04	6.018E-04	200	
112.0	110282	5.033E-04	9.235E-04	200	
114.0	145943	7.189E-04	1.222E-03	200	
116.0	102103	5.030E-04	8.551E-04	200	
118.0	54658	2.693E-04	4.577E-04	200	
120.0	3985	1.963E-05	3.337E-05	200	
122.0	3803	1.074E-05	3.186E-05	200	
124.0	970	4.783E-06	8.131E-06	200	
126.0	344	1.695E-06	2.882E-06	200	
128.0	67	3.330E-07	5.661E-07	200	
130.0	196	9.647E-07	1.647E-06	200	
132.0	113	5.600E-07	9.521E-07	200	

CROSSWIND INTEGRATED= 1.814E-02 3.084E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW...

TEST XE3 JULY 15, 1965 0255 TO 0259 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 1.7 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
98.0	0.3	121	5.968E-07	1.015E-06	200
98.0	0.7	161	7.957E-07	1.353E-06	200
98.0	1.4	23	1.174E-07	1.997E-07	200
98.0	2.7	61	3.010E-07	5.116E-07	200
98.0	4.1	33	1.652E-07	2.808E-07	200
98.0	5.4	20	1.028E-07	1.747E-07	200
98.0	6.8	31	1.541E-07	2.620E-07	200
98.0	8.1	29	1.431E-07	2.433E-07	200
98.0	9.4	23	1.174E-07	1.997E-07	200
98.0	10.8	11	5.505E-08	9.359E-08	200
98.0	13.5	48	2.386E-07	4.056E-07	200
98.0	16.2	17	8.808E-08	1.497E-07	200
98.0	18.9	14	6.973E-08	1.185E-07	200
98.0	21.6	6	3.303E-08	5.615E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
106.0	0.3	8073	3.977E-05	6.761E-05	200
106.0	0.7	8312	4.095E-05	6.961E-05	200
106.0	1.4	2340	1.153E-05	1.960E-05	200
106.0	2.7	2752	1.356E-05	2.305E-05	200
106.0	4.1	2821	1.390E-05	2.363E-05	200
106.0	5.4	3589	1.768E-05	3.006E-05	200
106.0	6.8	4036	1.988E-05	3.380E-05	200
106.0	8.1	5823	2.869E-05	4.877E-05	200
106.0	9.4	5418	2.669E-05	4.538E-05	200
106.0	10.8	4979	2.453E-05	4.170E-05	200
106.0	13.5	5997	2.954E-05	5.023E-05	200
106.0	16.2	5643	2.780E-05	4.726E-05	200
106.0	18.9	3729	1.837E-05	3.123E-05	200
106.0	21.6	2339	1.152E-05	1.959E-05	200
106.0	24.3	886	4.388E-06	7.426E-06	200
106.0	27.0	583	2.876E-06	4.890E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
114.0	0.3	130124	6.410E-04	1.090E-03	200
114.0	0.7	128886	6.389E-04	1.079E-03	200
114.0	1.4	28689	1.412E-04	2.401E-04	200
114.0	2.7	35016	1.725E-04	2.932E-04	200
114.0	4.1	30899	1.522E-04	2.588E-04	200
114.0	5.4	33133	1.632E-04	2.775E-04	200
114.0	6.8	27149	1.337E-04	2.273E-04	200
114.0	8.1	26063	1.284E-04	2.183E-04	200
114.0	9.4	25385	1.250E-04	2.126E-04	200
114.0	10.8	20847	1.027E-04	1.746E-04	200
114.0	13.5	14669	7.226E-05	1.228E-04	200
114.0	16.2	8193	4.036E-05	6.861E-05	200
114.0	18.9	4066	2.003E-05	3.405E-05	200
114.0	21.6	2058	1.014E-05	1.724E-05	200
114.0	24.3	1115	5.494E-06	9.340E-06	200
114.0	27.0	450	2.220E-06	3.774E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
122.0	0.3	2207	1.087E-05	1.849E-05	200
122.0	0.7	3210	1.582E-05	2.689E-05	200
122.0	1.4	754	3.718E-06	6.320E-06	200
122.0	2.7	964	4.753E-06	8.080E-06	200
122.0	4.1	772	3.806E-06	6.470E-06	200
122.0	5.4	745	3.674E-06	6.246E-06	200
122.0	6.8	1057	5.208E-06	8.854E-06	200
122.0	8.1	665	3.277E-06	5.572E-06	200
122.0	9.4	552	2.720E-06	4.623E-06	200
122.0	10.8	592	2.918E-06	4.960E-06	200
122.0	13.5	394	1.945E-06	3.307E-06	200
122.0	16.2	242	1.193E-06	2.028E-06	200
122.0	18.9	121	5.982E-07	1.017E-06	200
122.0	21.6	22	1.101E-07	1.872E-07	200
122.0	24.3	34	1.687E-07	2.868E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/O SEC/CM. X10E+6	EU/O 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/O SEC/CM. X10E+6	EU/O 1/SQ.M	DISTANCE METERS
130.0	1.4	10	5.138E-08	8.735E-08	200	114.0	0.3	16973	8.361E-05	1.421E-04	800
130.0	2.7	17	6.239E-08	1.061E-07	200	114.0	0.5	17464	8.403E-05	1.463E-04	800
130.0	4.1	582	2.870E-06	4.879E-06	200	114.0	1.0	4938	2.433E-05	4.135E-05	800
130.0	5.4	35	1.762E-07	2.995E-07	200	114.0	2.1	4887	2.408E-05	4.093E-05	800
130.0	6.8	61	3.010E-07	5.116E-07	200	114.0	4.2	5349	2.635E-05	4.480E-05	800
130.0	18.9	66	3.266E-07	5.553E-07	200	114.0	6.3	5586	2.752E-05	4.678E-05	800
130.0	21.6	17	8.806E-08	1.497E-07	200	114.0	8.4	3739	1.842E-05	3.132E-05	800

TEST XE3 JULY 15, 1965 0255 TO 0259 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ARC SAMPLER HT 1.5M U= 1.7 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. X10E+6	F/O SEC/CM. X10E+6	EU/O 1/SQ.M	DISTANCE METERS
88.0	32	1.611E-07	2.738E-07	800
90.0	56	2.782E-07	4.729E-07	800
94.0	35	1.757E-07	2.987E-07	800
96.0	74	3.660E-07	6.223E-07	800
98.0	112	5.560E-07	9.458E-07	800
100.0	529	2.606E-06	4.431E-06	800
102.0	157	7.760E-07	1.319E-06	800
C 104.0	35	1.757E-07	2.987E-07	800
C 110.0	136	6.735E-07	1.145E-06	800
112.0	15702	7.735E-05	1.315E-04	800
114.0	22160	1.092E-04	1.856E-04	800
116.0	12162	5.991E-05	1.019E-04	800
118.0	3572	1.760E-05	2.992E-05	800
120.0	157	7.760E-07	1.319E-06	800
120.0	157	7.760E-07	1.319E-06	800
122.0	35	1.757E-07	2.987E-07	800

CROSSWIND INTEGRATED= 7.588E-03 1.290E-02
SEC/SQ.M 1/M

TOXER DATA FOLLOW....

TEST XE3 JULY 15, 1965 0255 TO 0259 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
ROOM ARC U= 1.7 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/O SEC/CM. X10E+6	EU/O 1/SQ.M	DISTANCE METERS
98.0	0.5	42	2.085E-07	3.544E-07	800
98.0	4.2	12	6.390E-08	1.086E-07	800
98.0	6.3	29	1.456E-07	2.475E-07	800
98.0	16.8	13	6.745E-08	1.147E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/O SEC/CM. X10E+6	EU/O 1/SQ.M	DISTANCE METERS
106.0	1.0	13	6.745E-08	1.147E-07	800
106.0	6.3	33	1.669E-07	2.837E-07	800
106.0	8.4	51	2.556E-07	4.345E-07	800
106.0	10.5	76	3.763E-07	6.398E-07	800
106.0	12.4	47	2.343E-07	3.963E-07	800
106.0	14.7	162	8.024E-07	1.364E-06	800
106.0	16.8	152	7.491E-07	1.273E-06	800
106.0	21.0	134	6.639E-07	1.129E-06	800
106.0	25.2	108	7.294E-07	1.240E-06	800
106.0	29.4	134	6.630E-07	1.127E-06	800
106.0	33.6	136	6.707E-07	1.140E-06	800
106.0	37.8	80	3.953E-07	6.720E-07	800
106.0	42.0	79	3.927E-07	6.676E-07	800

TEST XE3 JULY 15, 1965 0255 TO 0259 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 1.7 M/SFC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
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99.0	88	4.336E-07	7.371E-07	1600
104.0	72	3.596E-07	6.113E-07	1600
105.0	45	2.221E-07	3.775E-07	1600
106.0	133	6.557E-07	1.115E-06	1600
107.0	334	1.650E-06	2.805E-06	1600
108.0	571	2.813E-06	4.782E-06	1600
109.0	1131	5.573E-06	9.474E-06	1600
110.0	2194	1.081E-05	1.837E-05	1600
111.0	4001	1.971E-05	3.351E-05	1600
112.0	5405	2.663E-05	4.527E-05	1600
113.0	5669	2.793E-05	4.748E-05	1600
114.0	4252	2.095E-05	3.561E-05	1600
115.0	3767	1.856E-05	3.155E-05	1600
116.0	2434	1.199E-05	2.039E-05	1600
117.0	1049	5.171E-06	8.791E-06	1600
118.0	500	2.464E-06	4.189E-06	1600
119.0	98	4.865E-07	8.270E-07	1600

CROSSWIND INTEGRATED= 4.416E-03 7.542E-03
SEC/SQ.M 1/M

TOXIC DATA FOLLOWING...

TEST XE3 JULY 15, 1965 0255 TO 0259 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC U= 1.7 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
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106.0	0.2	90	4.442E-07	7.551E-07	1600
106.0	0.4	90	4.442E-07	7.551E-07	1600
106.0	0.8	152	7.509E-07	1.276E-06	1600
106.0	1.5	33	1.671E-07	2.841E-07	1600
106.0	3.1	43	2.121E-07	3.605E-07	1600
106.0	6.2	31	1.575E-07	2.677E-07	1600
106.0	9.3	27	1.350E-07	2.294E-07	1600
106.0	12.4	39	1.960E-07	3.332E-07	1600
106.0	15.5	24	1.221E-07	2.076E-07	1600
106.0	18.6	21	1.060E-07	1.803E-07	1600
106.0	21.7	19	9.600E-08	1.639E-07	1600
106.0	24.8	9	4.756E-08	8.090E-08	1600
106.0	37.2	9	4.521E-08	7.686E-08	1600
106.0	49.6	4	2.252E-08	3.829E-08	1600
106.0	55.8	5	2.662E-08	4.525E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	EU/O 1/SQ.M	DISTANCE METERS
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114.0	0.2	3567	1.758E-05	2.988E-05	1600
114.0	0.4	3829	1.887E-05	3.207E-05	1600
114.0	0.8	4592	2.262E-05	3.846E-05	1600
114.0	1.5	1221	6.019E-06	1.023E-05	1600
114.0	3.1	1748	8.615E-06	1.465E-05	1600
114.0	6.2	1906	9.393E-06	1.597E-05	1600
114.0	9.3	1866	9.194E-06	1.563E-05	1600
114.0	12.4	2206	1.107E-05	1.881E-05	1600
114.0	15.5	1655	8.156E-06	1.386E-05	1600
114.0	18.6	1611	7.937E-06	1.349E-05	1600
114.0	21.7	1149	5.662E-06	9.625E-06	1600
114.0	24.8	833	4.107E-06	6.982E-06	1600
114.0	31.0	440	2.168E-06	3.685E-06	1600
114.0	37.2	321	1.582E-06	2.690E-06	1600
114.0	43.4	205	1.011E-06	1.719E-06	1600
114.0	49.6	112	5.529E-07	9.399E-07	1600
114.0	55.8	61	3.051E-07	5.187E-07	1600
114.0	62.0	66	4.259E-07	7.200E-07	1600

SECONDARY SERIES EXPERIMENT: XE-3F
ZINC SULFIDE AND FLUOROSCEIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT XE-3. FLUORESCIN RESULTS ARE PRESENTED HERE. GROUND
LEVEL AND TOWER SAMPLING 200-1600 M ARCS.

TEST XE3F JULY 15, 1965 0255 TO 0259 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 1.7 M/SEC AT 2M

AZIMUTH EXPOSURE E/O EU/O DISTANCE
DEGREES GM-SEC/CM SEC/CM 1/SQ.M METERS
X10E+6

68.0	52	2.803E-07	4.766E-07	200
70.0	25	1.317E-07	2.273E-07	200
72.0	23	1.251E-07	2.126E-07	200
74.0	51	2.741E-07	4.643E-07	200
76.0	41	2.228E-07	3.788E-07	200
78.0	68	3.666E-07	6.232E-07	200
80.0	72	3.806E-07	6.538E-07	200
82.0	43	2.329E-07	3.959E-07	200
84.0	28	1.548E-07	2.615E-07	200
86.0	32	1.725E-07	2.933E-07	200
88.0	36	1.941E-07	3.299E-07	200
90.0	33	1.797E-07	3.055E-07	200
92.0	32	1.725E-07	2.933E-07	200
94.0	59	3.143E-07	5.377E-07	200
96.0	28	1.509E-07	2.566E-07	200
98.0	11	6.038E-08	1.026E-07	200
100.0	72	3.882E-07	6.599E-07	200
102.0	756	4.025E-06	6.803E-06	200
104.0	3378	1.797E-05	3.055E-05	200
106.0	11486	6.110E-05	1.039E-04	200
108.0	38918	2.070E-04	3.519E-04	200
110.0	81081	4.313E-04	7.332E-04	200
112.0	118918	6.325E-04	1.075E-03	200
114.0	135135	7.188E-04	1.222E-03	200
116.0	83783	4.497E-04	7.576E-04	200
118.0	31351	1.668E-04	2.835E-04	200
120.0	5472	2.911E-05	4.949E-05	200
122.0	1459	7.763E-06	1.320E-05	200
124.0	194	1.068E-06	1.809E-06	200
126.0	2	4.375E-07	7.454E-07	200
128.0	27	1.438E-07	2.444E-07	200
130.0	28	1.509E-07	2.566E-07	200
132.0	23	1.251E-07	2.126E-07	200
134.0	25	1.380E-07	2.346E-07	200
136.0	28	1.509E-07	2.566E-07	200

CROSSWIND INTEGRATED= 1.905E-02 3.238E-02
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST XE3F JULY 15, 1965 0255 TO 0259 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
200M ARC U= 1.7 M/SEC AT 2M

AZIMUTH HEIGHT EXPOSURE E/O EU/O DISTANCE
DEGREES METERS GM-SEC/CM SEC/CM 1/SQ.M METERS
X10E+6

98.0	0.3	40	2.156E-07	3.666E-07	200
98.0	0.7	59	3.163E-07	5.377E-07	200
98.0	1.4	19	1.049E-07	1.788E-07	200
98.0	2.7	29	1.581E-07	2.686E-07	200
98.0	4.1	29	1.093E-07	1.857E-07	200
98.0	5.4	19	1.064E-07	1.809E-07	200
98.0	6.8	4	2.516E-08	4.277E-08	200
98.0	8.1	24	1.323E-07	2.248E-07	200
98.0	9.4	8	4.313E-08	7.332E-08	200
98.0	10.8	16	8.913E-08	1.515E-07	200
98.0	13.5	43	2.300E-07	3.910E-07	200
98.0	16.2	28	1.509E-07	2.566E-07	200
98.0	18.9	110	5.890E-07	1.002E-06	200
98.0	21.6	37	2.013E-07	3.422E-07	200
98.0	24.3	17	9.488E-08	1.613E-07	200
98.0	27.0	21	1.150E-07	1.955E-07	200

AZIMUTH HEIGHT EXPOSURE E/O EU/O DISTANCE
DEGREES METERS GM-SEC/CM SEC/CM 1/SQ.M METERS
X10E+6

106.0	0.3	9169	4.888E-05	8.304E-05	200
106.0	0.7	10675	5.679E-05	9.654E-05	200
106.0	1.4	11351	6.038E-05	1.026E-04	200
106.0	2.7	12044	6.433E-05	1.094E-04	200
106.0	4.1	12702	6.757E-05	1.149E-04	200
106.0	5.4	13513	7.188E-05	1.222E-04	200
106.0	6.8	16554	8.805E-05	1.497E-04	200
106.0	8.1	17817	9.488E-05	1.613E-04	200
106.0	9.4	18703	9.991E-05	1.699E-04	200
106.0	10.8	14189	7.547E-05	1.283E-04	200
106.0	13.5	18743	9.991E-05	1.699E-04	200
106.0	16.2	17817	9.488E-05	1.613E-04	200
106.0	18.9	11216	5.966E-05	1.014E-04	200
106.0	21.6	7343	3.917E-05	6.660E-05	200
106.0	24.3	4324	2.300E-05	3.910E-05	200
106.0	27.0	2817	1.509E-05	2.566E-05	200

AZIMUTH HEIGHT EXPOSURE E/O EU/O DISTANCE
DEGREES METERS GM-SEC/CM SEC/CM 1/SQ.M METERS
X10E+6

114.0	0.3	105455	5.607E-04	9.531E-04	200
114.0	0.7	124324	6.613E-04	1.124E-03	200
114.0	2.7	127026	6.757E-04	1.149E-03	200
114.0	4.1	124324	6.613E-04	1.124E-03	200
114.0	5.4	108108	5.750E-04	9.776E-04	200
114.0	6.8	97297	5.175E-04	8.798E-04	200
114.0	8.1	75675	4.025E-04	6.843E-04	200
114.0	9.4	70270	3.738E-04	6.354E-04	200
114.0	10.8	67547	3.594E-04	6.110E-04	200
114.0	13.5	48108	2.559E-04	4.350E-04	200
114.0	16.2	25405	1.351E-04	2.297E-04	200
114.0	18.9	11891	6.325E-05	1.075E-04	200
114.0	21.6	6544	3.508E-05	5.963E-05	200
114.0	24.3	3783	2.013E-05	3.422E-05	200
114.0	27.0	1621	8.624E-06	1.466E-05	200

AZIMUTH HEIGHT EXPOSURE E/O EU/O DISTANCE
DEGREES METERS GM-SEC/CM SEC/CM 1/SQ.M METERS
X10E+6

122.0	0.3	810	4.313E-06	7.332E-06	200
122.0	0.7	1000	5.319E-06	9.043E-06	200
122.0	1.4	1027	5.463E-06	9.287E-06	200
122.0	2.7	1162	6.182E-06	1.051E-05	200
122.0	4.1	986	5.247E-06	8.920E-06	200
122.0	5.4	986	5.247E-06	8.920E-06	200
122.0	6.8	1310	6.972E-06	1.185E-05	200
122.0	8.1	797	4.241E-06	7.210E-06	200
122.0	9.4	722	3.882E-06	6.599E-06	200
122.0	10.8	801	4.744E-06	8.065E-06	200
122.0	13.5	299	1.596E-06	2.713E-06	200
122.0	16.2	308	1.639E-06	2.786E-06	200
122.0	18.9	99	5.319E-07	9.043E-07	200
122.0	21.6	41	2.222E-07	3.788E-07	200
122.0	24.3	29	1.323E-07	2.248E-07	200
122.0	27.0	15	8.482E-08	1.442E-07	200

AZIMUTH HEIGHT EXPOSURE E/O EU/O DISTANCE
 DEGREES METERS GM-SEC/CM² SEC/CM² 1/SQ.M METERS
 X10E+6

130.0	0.3	12	6.469E-08	1.100E-07	200
130.0	0.7	17	9.488E-08	1.613E-07	200
130.0	1.4	12	6.757E-08	1.149E-07	200
130.0	2.7	12	6.757E-08	1.149E-07	200
130.0	4.1	20	1.067E-07	1.815E-07	200
130.0	5.4	20	1.071E-07	1.821E-07	200
130.0	6.8	7	3.882E-08	6.599E-08	200
130.0	8.1	12	6.469E-08	1.100E-07	200
130.0	9.4	22	1.179E-07	2.004E-07	200
130.0	10.8	9	4.888E-08	8.309E-08	200
130.0	13.5	17	9.344E-08	1.589E-07	200
130.0	16.2	8	4.672E-08	7.943E-08	200
130.0	18.9	10	5.391E-08	9.165E-08	200
130.0	21.4	6	3.522E-08	5.988E-08	200
130.0	24.3	8	4.457E-08	7.576E-08	200
130.0	27.0	8	4.672E-08	7.943E-08	200

TEST XE3F JULY 15, 1965 0255 TO 0259 PST
 FLUORESCIN RELEASE FROM ELEVATION OF 2M
 BODY ARC SAMPLE HT 1.50 U= 1.7 W/SFC AT 2M

AZIMUTH HEIGHT EXPOSURE E/O EU/O DISTANCE
 DEGREES METERS GM-SEC/CM² SEC/CM² 1/SQ.M METERS
 X10E+6

86.0	107	5.702E-07	9.693E-07	800
88.0	84	4.520E-07	7.683E-07	800
90.0	52	2.791E-07	4.728E-07	800
92.0	96	5.145E-07	8.747E-07	800
94.0	82	4.380E-07	7.447E-07	800
96.0	9	4.867E-08	8.274E-08	800
98.0	35	1.877E-07	3.191E-07	800
100.0	54	3.094E-07	5.260E-07	800
102.0	128	6.814E-07	1.158E-06	800
104.0	15	8.205E-08	1.395E-07	800
106.0	14	7.927E-08	1.348E-07	800
108.0	15	8.066E-08	1.371E-07	800
110.0	24	1.293E-07	2.199E-07	800
112.0	18300	9.734E-05	1.655E-04	800
114.0	23006	1.224E-04	2.080E-04	800
116.0	13398	7.127E-05	1.212E-04	800
118.0	3830	2.037E-05	3.463E-05	800
120.0	156	8.344E-07	1.418E-06	800
122.0	24	1.321E-07	2.246E-07	800
124.0	35	1.877E-07	3.191E-07	800
126.0	81	2.225E-07	3.783E-07	800
128.0	83	4.450E-07	7.565E-07	800
130.0	48	2.573E-07	4.374E-07	800

CROSSWIND INTEGRATED= 8.860E-03 1.506E-02
 TOWER DATA FOLLOWING SEC/30.M 1/M

TEST XE3F JULY 15, 1965 0255 TO 0259 PST
 FLUORESCIN RELEASE FROM ELEVATION OF 2M
 BODY ARC U= 1.7 W/SFC AT 2M

AZIMUTH HEIGHT EXPOSURE E/O EU/O DISTANCE
 DEGREES METERS GM-SEC/CM² SEC/CM² 1/SQ.M METERS
 X10E+6

98.0	0.3	8	4.677E-08	7.951E-08	800
98.0	0.5	7	3.852E-08	6.548E-08	800
98.0	1.0	4	2.155E-08	3.664E-08	800
98.0	2.1	18	1.009E-07	1.715E-07	800
98.0	4.2	42	2.207E-07	3.820E-07	800
98.0	6.3	34	1.834E-07	3.118E-07	800
98.0	8.4	35	1.880E-07	3.196E-07	800
98.0	10.5	37	1.972E-07	3.352E-07	800
98.0	12.6	20	1.082E-07	1.840E-07	800
98.0	14.7	10	5.778E-08	9.822E-08	800
98.0	16.8	10	5.457E-08	9.276E-08	800
98.0	21.0	10	5.778E-08	9.822E-08	800
98.0	25.2	15	8.254E-08	1.403E-07	800
98.0	29.4	9	5.044E-08	8.575E-08	800
98.0	33.6	44	2.384E-07	4.054E-07	800
98.0	37.8	44	2.362E-07	4.015E-07	800
98.0	42.0	53	2.823E-07	4.833E-07	800

AZIMUTH HEIGHT EXPOSURE E/O EU/O DISTANCE
 DEGREES METERS GM-SEC/CM² SEC/CM² 1/SQ.M METERS
 X10E+6

106.0	0.3	15	8.250E-08	1.403E-07	800
106.0	0.5	14	8.575E-08	1.458E-07	800
106.0	1.0	14	7.612E-08	1.298E-07	800
106.0	2.1	3	2.018E-08	3.430E-08	800
106.0	4.2	13	6.970E-08	1.185E-07	800
106.0	6.3	144	7.708E-07	1.310E-06	800
106.0	8.4	148	7.887E-07	1.341E-06	800
106.0	10.5	179	9.538E-07	1.621E-06	800
106.0	12.6	141	7.520E-07	1.278E-06	800
106.0	14.7	143	7.612E-07	1.294E-06	800
106.0	16.8	255	1.357E-06	2.307E-06	800
106.0	21.0	299	1.587E-06	2.697E-06	800
106.0	25.2	342	1.926E-06	3.274E-06	800
106.0	29.4	282	1.504E-06	2.557E-06	800
106.0	33.6	322	1.715E-06	2.915E-06	800
106.0	37.8	241	1.284E-06	2.183E-06	800
106.0	42.0	224	1.192E-06	2.027E-06	800

AZIMUTH HEIGHT EXPOSURE E/O EU/O DISTANCE
 DEGREES METERS GM-SEC/CM² SEC/CM² 1/SQ.M METERS
 X10E+6

114.0	0.3	4999	2.660E-05	4.521E-05	800
114.0	0.5	11034	5.864E-05	9.978E-05	800
114.0	2.1	11206	5.961E-05	1.013E-04	800
114.0	4.2	11465	6.099E-05	1.037E-04	800
114.0	6.3	13620	7.245E-05	1.232E-04	800
114.0	8.4	577	3.072E-06	5.223E-06	800
114.0	10.5	9999	5.319E-05	9.043E-05	800
114.0	12.6	9927	5.227E-05	8.887E-05	800
114.0	14.7	6724	3.577E-05	6.080E-05	800
114.0	16.8	5374	2.843E-05	4.833E-05	800
114.0	21.0	4741	2.522E-05	4.287E-05	800
114.0	25.2	2844	1.513E-05	2.572E-05	800
114.0	29.4	1568	8.346E-06	1.419E-05	800
114.0	33.6	810	4.310E-06	7.328E-06	800
114.0	37.8	517	2.751E-06	4.677E-06	800
114.0	42.0	318	1.697E-06	2.880E-06	800

AZIMUTH HEIGHT EXPOSURE E/O EU/O DISTANCE
 DEGREES METERS GM-SEC/CM² SEC/CM² 1/SQ.M METERS
 X10E+6

122.0	0.3	12	6.695E-08	1.138E-07	800
122.0	0.5	14	7.612E-08	1.294E-07	800
122.0	1.0	20	1.082E-07	1.840E-07	800
122.0	2.1	16	8.621E-08	1.466E-07	800
122.0	4.2	18	9.629E-08	1.637E-07	800
122.0	6.3	80	4.264E-07	7.250E-07	800
122.0	8.4	18	9.813E-08	1.668E-07	800
122.0	10.5	16	8.621E-08	1.466E-07	800
122.0	12.6	18	9.721E-08	1.653E-07	800
122.0	14.7	9	5.136E-08	8.731E-08	800
122.0	16.8	8	4.585E-08	7.795E-08	800
122.0	21.0	9	5.136E-08	8.731E-08	800
122.0	25.2	29	1.559E-07	2.650E-07	800
122.0	29.4	31	1.697E-07	2.884E-07	800
122.0	33.6	16	8.621E-08	1.466E-07	800
122.0	37.8	25	1.376E-07	2.339E-07	800
122.0	42.0	23	1.238E-07	2.105E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/R SEC/CU.M	FU/R 1/SG.M	DISTANCE METERS
130.0	0.3	18	9.629E-06	1.637E-07	800
130.0	0.5	23	1.238E-07	2.105E-07	800
130.0	1.0	15	8.162E-08	1.388E-07	800
130.0	2.1	30	1.605E-07	2.728E-07	800
130.0	4.2	19	1.036E-07	1.762E-07	800
130.0	6.3	58	3.118E-07	5.301E-07	800

TOWER DATA FOLLOWS....

TEST XF3F JULY 15, 1965 0255 TO 0259 PST
 FLUORESCENCE RELEASE FROM ELEVATION OF 2M
 1600M ARC SAMPLER HT 1.5M U= 1.7 M/SEC AT 2M

TEST XF3F JULY 15, 1965 0255 TO 0259 PST
 FLUORESCENCE RELEASE FROM ELEVATION OF 2M
 1600M ARC SAMPLER HT 1.5M U= 1.7 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/R SEC/CU.M	FU/R 1/SG.M	DISTANCE METERS
94.0	69	3.623E-07	6.158E-07	1600
95.0	72	3.852E-07	6.548E-07	1600
96.0	21	1.146E-07	1.949E-07	1600
97.0	12	6.786E-08	1.154E-07	1600
98.0	46	2.476E-07	4.209E-07	1600
99.0	34	1.834E-07	3.118E-07	1600
100.0	31	1.697E-07	2.884E-07	1600
101.0	25	1.374E-07	2.339E-07	1600
102.0	36	1.926E-07	3.274E-07	1600
103.0	74	3.989E-07	6.782E-07	1600
104.0	99	5.273E-07	8.985E-07	1600
105.0	112	7.062E-07	1.200E-06	1600
106.0	344	1.834E-06	3.118E-06	1600
107.0	525	2.797E-06	4.755E-06	1600
108.0	931	4.952E-06	8.419E-06	1600
109.0	1620	8.621E-06	1.466E-05	1600
110.0	3017	1.605E-05	2.728E-05	1600
111.0	4396	2.339E-05	3.976E-05	1600
112.0	5673	2.981E-05	5.067E-05	1600
113.0	6034	3.210E-05	5.457E-05	1600
114.0	4548	2.430E-05	4.132E-05	1600
115.0	3706	1.972E-05	3.352E-05	1600
116.0	2413	1.284E-05	2.183E-05	1600
117.0	836	4.448E-06	7.561E-06	1600
118.0	273	1.559E-06	2.650E-06	1600
119.0	41	2.201E-07	3.742E-07	1600
120.0	15	8.079E-08	1.372E-07	1600

CROSSKIND INTEGRATED= 5.200E-03 SEC/SG.M
 8.840E-03 1/M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/R SEC/CU.M	FU/R 1/SG.M	DISTANCE METERS
106.0	0.2	258	1.576E-06	2.339E-06	1600
106.0	0.4	267	1.421E-06	2.417E-06	1600
106.0	0.8	310	1.651E-06	2.806E-06	1600
106.0	1.6	310	1.651E-06	2.806E-06	1600
106.0	3.1	293	1.559E-06	2.650E-06	1600
106.0	6.2	249	1.330E-06	2.261E-06	1600
106.0	9.3	244	1.311E-06	2.229E-06	1600
106.0	12.4	184	9.813E-07	1.668E-06	1600
106.0	15.5	184	9.813E-07	1.668E-06	1600
106.0	18.6	120	6.420E-07	1.091E-06	1600
106.0	21.7	151	8.070E-07	1.372E-06	1600
106.0	24.8	94	5.044E-07	8.575E-07	1600
106.0	31.0	50	2.705E-07	4.599E-07	1600
106.0	37.2	29	1.559E-07	2.650E-07	1600
106.0	43.4	20	1.101E-07	1.871E-07	1600
106.0	49.6	20	1.101E-07	1.871E-07	1600
106.0	55.8	20	1.101E-07	1.871E-07	1600
106.0	62.0	13	7.383E-08	1.255E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/R SEC/CU.M	FU/R 1/SG.M	DISTANCE METERS
114.0	0.2	3275	1.742E-05	2.962E-05	1600
114.0	0.4	3187	1.697E-05	2.884E-05	1600
114.0	1.5	4310	2.293E-05	3.898E-05	1600
114.0	3.1	4051	2.155E-05	3.664E-05	1600
114.0	6.2	3965	2.109E-05	3.586E-05	1600
114.0	9.3	4310	2.293E-05	3.898E-05	1600
114.0	12.4	4568	2.430E-05	4.132E-05	1600
114.0	15.5	4568	2.430E-05	4.132E-05	1600
114.0	18.6	3232	1.720E-05	2.923E-05	1600
114.0	21.7	2327	1.238E-05	2.105E-05	1600
114.0	24.8	1724	9.171E-06	1.559E-05	1600
114.0	31.9	1206	6.420E-06	1.091E-05	1600
114.0	37.2	741	3.948E-06	6.709E-06	1600
114.0	43.4	540	2.981E-06	5.067E-06	1600
114.0	49.6	224	1.192E-06	2.027E-06	1600
114.0	55.8	127	1.742E-06	2.962E-06	1600
114.0	62.0	155	9.254E-07	1.403E-06	1600

Xenon Data for Xe-3

<u>Position*</u>	<u>E/Q</u>
1-096	1.65-6
1-100	4.53-6
1-108	1.68-4
1-112	7.09-4
2-096	1.44-6
2-100	2.61-6
2-112	1.10-4
2-116	9.80-5
3-096	8.97-7
3-108	1.16-5
3-111	3.92-5
3-114	4.18-5
3-117	1.12-5

*Stable grid

SECONDARY SERIES EXPERIMENT: XE-4
ZINC SULFIDE AND FLUOROSCRIM WERE BOTH USED AS TRACERS DURING
EXPERIMENT XE-4. ZINC FLUORIDE RESULTS ARE PRESENTED HERE.
GROUND LEVEL AND TOWER SAMPLING 200-1600 M ARCS.

TEST XE-4 AUGUST 11, 1965 0300 TO 0308 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER AT 1.5M U= 2.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/R SEC/CM ²	F/L 1/SQ.M	DISTANCE METERS
68.0	53	6.778E-08	1.491E-07		200
70.0	50	6.401E-08	1.408E-07		200
72.0	170	2.184E-07	4.865E-07		200
74.0	397	5.083E-07	1.118E-06		200
76.0	238	3.050E-07	6.710E-07		200
78.0	538	6.891E-07	1.516E-06		200
80.0	362	4.832E-07	1.019E-06		200
82.0	107	1.883E-07	4.142E-07		200
84.0	550	7.091E-07	1.549E-06		200
86.0	459	5.874E-07	1.292E-06		200
88.0	300	3.841E-07	8.450E-07		200
90.0	762	9.753E-07	2.146E-06		200
92.0	4428	5.663E-06	1.296E-05		200
94.0	22032	2.894E-05	6.367E-05		200
96.0	73167	9.356E-05	2.058E-04		200
98.0	145159	1.856E-04	4.084E-04		200
100.0	255155	3.263E-04	7.178E-04		200
102.0	422835	5.407E-04	1.190E-03		200
104.0	422606	5.400E-04	1.189E-03		200
106.0	310194	4.018E-04	8.839E-04		200
108.0	238006	3.004E-04	6.896E-04		200
110.0	161605	2.067E-04	4.546E-04		200
112.0	98414	1.258E-04	2.769E-04		200
114.0	41548	5.313E-05	1.169E-04		200
116.0	7829	1.001E-05	2.203E-05		200
118.0	1328	1.698E-06	3.736E-06		200
120.0	136	1.770E-07	3.893E-07		200

CROSSWIND INTEGRATED= 1.976E-02 4.347E-02
SEC/30.M 1/M

AZIMUTH HEIGHT EXPOSURE F/R F/L DISTANCE
DEGREES METERS GM-SEC/CM² SEC/CM² 1/SQ.M METERS
X10E+6

106.0	0.3	288776	3.693E-04	8.124E-04	200
106.0	0.7	381364	4.877E-04	1.073E-03	200
106.0	1.4	297970	3.810E-04	8.383E-04	200
106.0	2.7	255857	3.272E-04	7.198E-04	200
106.0	4.1	284333	3.636E-04	7.999E-04	200
106.0	5.4	308897	3.948E-04	8.685E-04	200
106.0	6.8	202499	2.590E-04	5.697E-04	200
106.0	8.1	232996	2.979E-04	6.555E-04	200
106.0	9.4	222678	2.848E-04	6.265E-04	200
106.0	10.8	160442	2.052E-04	4.513E-04	200
106.0	13.5	116543	1.490E-04	3.279E-04	200
106.0	16.2	44940	8.305E-05	1.827E-04	200
106.0	18.9	49388	6.305E-05	1.387E-04	200
106.0	21.6	26243	3.359E-05	7.389E-05	200
106.0	24.3	10511	1.344E-05	2.957E-05	200
106.0	27.0	4420	5.653E-06	1.244E-05	200

AZIMUTH HEIGHT EXPOSURE F/R F/L DISTANCE
DEGREES METERS GM-SEC/CM² SEC/CM² 1/SQ.M METERS
X10E+6

110.0	0.3	32922	4.216E-05	9.262E-05	200
110.0	0.7	46925	6.001E-05	1.320E-04	200
110.0	1.4	32271	4.127E-05	9.079E-05	200
110.0	2.7	35824	4.581E-05	1.008E-04	200
110.0	4.1	34704	5.085E-05	1.120E-04	200
110.0	5.4	43037	5.504E-05	1.211E-04	200
110.0	6.8	24710	3.799E-05	8.358E-05	200
110.0	8.1	36482	4.665E-05	1.026E-04	200
110.0	9.4	34403	4.399E-05	9.679E-05	200
110.0	10.8	34471	4.408E-05	9.698E-05	200
110.0	13.5	24971	3.193E-05	7.025E-05	200
110.0	16.2	16344	2.096E-05	4.611E-05	200
110.0	18.9	7900	1.010E-05	2.223E-05	200
110.0	21.6	3666	4.689E-06	1.032E-05	200
110.0	24.3	2372	3.034E-06	6.676E-06	200

TOWER DATA FULLY....

TEST XF-4 AUGUST 11, 1965 0300 TO 0308 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 2.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/R SEC/CM ²	F/L 1/SQ.M	DISTANCE METERS
98.0	0.3	133106	1.703E-04	3.747E-04	200
98.0	0.7	156743	2.005E-04	4.410E-04	200
98.0	1.4	123248	1.578E-04	3.468E-04	200
98.0	2.7	115515	1.478E-04	3.251E-04	200
98.0	4.1	130458	1.668E-04	3.670E-04	200
98.0	5.4	118165	1.511E-04	3.320E-04	200
98.0	6.8	12411	1.590E-05	3.497E-05	200
98.0	8.1	92445	1.182E-04	2.601E-04	200
98.0	9.4	30639	3.915E-05	8.623E-05	200
98.0	10.8	63722	8.146E-05	1.793E-04	200
98.0	13.5	40560	5.179E-05	1.139E-04	200
98.0	16.2	28648	3.663E-05	8.060E-05	200
98.0	18.9	13053	1.660E-05	3.672E-05	200
98.0	21.6	5799	7.416E-06	1.632E-05	200
98.0	24.3	1514	1.936E-06	4.260E-06	200
98.0	27.0	164	2.108E-07	4.619E-07	200

TEST XF-4 AUGUST 11, 1965 0300 TO 0308 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER AT 1.5M U= 2.2 M/SEC AT 2M

AZIMUTH HEIGHT EXPOSURE F/R F/L DISTANCE
DEGREES METERS GM-SEC/CM² SEC/CM² 1/SQ.M METERS
X10E+6

86.0	50	1.275E-07	2.805E-07		200
88.0	76	9.835E-08	2.164E-07		200
90.0	119	1.530E-07	3.360E-07		200
92.0	162	1.311E-07	2.885E-07		200
94.0	59	7.609E-08	1.663E-07		200
96.0	390	4.990E-07	1.098E-06		200
98.0	3170	4.050E-06	8.919E-06		200
100.0	11666	1.492E-05	3.282E-05		200
102.0	8906	1.139E-05	2.506E-05		200
104.0	50354	7.462E-05	1.642E-04		200
106.0	41637	5.324E-05	1.171E-04		200
108.0	25125	3.213E-05	7.064E-05		200
110.0	5585	7.103E-06	1.571E-05		200
112.0	479	1.253E-06	2.757E-06		200
114.0	113	1.457E-07	3.205E-07		200
116.0	54	6.921E-08	1.523E-07		200
118.0	65	8.378E-08	1.843E-07		200

CROSSWIND INTEGRATED= 5.587E-03 1.230E-02
SEC/30.M 1/M

TOWER DATA FOLLOW...

TEST XE=4 AUGUST 11, 1965 0300 TO 0308 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M AWC SAMPLER AT 1.5M U= 2.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
98.0	0.3	2419	3.605E-06	7.931E-06	800
98.0	0.5	3173	4.059E-06	8.929E-06	800
98.0	1.0	2858	3.656E-06	8.043E-06	800
98.0	2.1	3001	3.839E-06	8.444E-06	800
98.0	4.2	2626	3.359E-06	7.390E-06	800
98.0	6.3	3275	4.189E-06	9.215E-06	800
98.0	8.4	2393	3.088E-06	6.705E-06	800
98.0	10.5	2093	2.677E-06	5.869E-06	800
98.0	12.6	2271	2.904E-06	6.389E-06	800
98.0	14.7	1456	1.862E-06	4.097E-06	800
98.0	16.8	1401	1.907E-06	4.196E-06	800
98.0	21.0	730	9.341E-07	2.055E-06	800
98.0	25.2	177	2.265E-07	4.984E-07	800
98.0	29.4	70	8.980E-08	1.976E-07	800
98.0	33.6	151	1.933E-07	4.253E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
106.0	0.3	32045	4.098E-05	9.015E-05	800
106.0	0.5	38942	4.980E-05	1.096E-04	800
106.0	1.0	31804	4.067E-05	8.944E-05	800
106.0	2.1	33741	4.959E-05	1.091E-04	800
106.0	4.2	55585	7.108E-05	1.564E-04	800
106.0	6.3	40866	5.226E-05	1.150E-04	800
106.0	8.4	48910	6.255E-05	1.376E-04	800
106.0	10.5	50242	6.425E-05	1.413E-04	800
106.0	12.6	43803	5.602E-05	1.232E-04	800
106.0	14.7	86372	5.530E-05	1.305E-04	800
106.0	16.8	44747	5.722E-05	1.259E-04	800
106.0	21.0	24004	3.760E-05	8.272E-05	800
106.0	25.2	8866	1.139E-05	2.495E-05	800
106.0	29.4	9332	1.193E-05	2.626E-05	800
106.0	33.6	4783	6.117E-06	1.346E-05	800
106.0	37.8	2749	3.465E-06	7.622E-06	800
106.0	42.0	1342	1.767E-06	3.888E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
114.0	0.3	65	8.326E-08	1.832E-07	800
114.0	0.5	37	4.790E-08	1.054E-07	800
114.0	1.0	10	2.395E-08	5.269E-08	800
114.0	2.1	107	1.377E-07	3.030E-07	800
114.0	4.2	44	5.680E-08	1.251E-07	800
114.0	6.3	16	2.096E-08	4.611E-08	800
114.0	8.4	121	1.557E-07	3.425E-07	800
114.0	10.5	150	1.976E-07	4.347E-07	800
114.0	12.6	234	2.994E-07	6.587E-07	800
114.0	14.7	292	3.783E-07	8.234E-07	800
114.0	16.8	426	5.449E-07	1.199E-06	800
114.0	21.0	140	1.797E-07	3.953E-07	800
114.0	25.2	169	2.168E-07	4.769E-07	800
114.0	29.4	345	4.414E-07	9.710E-07	800
114.0	33.6	160	2.051E-07	4.511E-07	800
114.0	37.8	158	2.031E-07	4.468E-07	800
114.0	42.0				

TEST XE=4 AUGUST 11, 1965 0300 TO 0308 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M AWC SAMPLER AT 1.5M U= 2.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
90.0	0.3	6.027E-02	1.326E-07	1600	
93.0	0.5	4.717E-04	1.034E-07	1600	
96.0	1.0	7.841E-06	1.730E-07	1600	
97.0	2.1	8.608E-08	1.902E-07	1600	
98.0	4.2	4.717E-08	1.034E-07	1600	
99.0	6.3	1.349E-07	3.055E-07	1600	
100.0	8.4	3.066E-07	6.745E-07	1600	
101.0	10.5	1.409E-06	3.188E-06	1600	
102.0	12.6	3.397E-06	9.305E-06	1600	
103.0	14.7	1.244E-05	2.739E-05	1600	
104.0	16.8	1.908E-05	4.286E-05	1600	
105.0	18.9	1.364E-05	3.001E-05	1600	
106.0	21.0	1.867E-05	4.108E-05	1600	
107.0	23.1	1.149E-05	2.529E-05	1600	
108.0	25.2	4.974E-06	1.094E-05	1600	
109.0	27.3	1.517E-06	3.338E-06	1600	
110.0	29.4	5.922E-07	1.303E-06	1600	
111.0	31.5	5.765E-08	1.268E-07	1600	
112.0	33.6	3.145E-08	6.918E-08	1600	

CROSSHAIR INTEGRATED= 2.503E-03 SEC/SQ.M 5.508E-03 1/M

TOWER DATA FOLLOW...

TEST XE=4 AUGUST 11, 1965 0300 TO 0308 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M AWC SAMPLER AT 1.5M U= 2.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
98.0	0.2	53	6.863E-08	1.510E-07	1600
98.0	0.4	49	6.314E-08	1.389E-07	1600
98.0	1.5	68	8.709E-08	1.916E-07	1600
98.0	3.1	50	6.417E-08	1.412E-07	1600
98.0	9.3	59	7.563E-08	1.664E-07	1600
98.0	12.4	51	6.647E-08	1.462E-07	1600
98.0	15.5	25	3.209E-08	7.059E-08	1600
98.0	18.6	51	6.647E-08	1.462E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
106.0	0.2	7952	1.018E-05	2.239E-05	1600
106.0	0.4	8804	1.126E-05	2.477E-05	1600
106.0	0.8	9634	1.232E-05	2.711E-05	1600
106.0	1.5	894	1.144E-06	2.516E-06	1600
106.0	3.1	9289	1.18E-05	2.613E-05	1600
106.0	6.2	12171	1.556E-05	3.424E-05	1600
106.0	9.3	16068	2.055E-05	4.520E-05	1600
106.0	12.4	15682	2.005E-05	4.412E-05	1600
106.0	15.5	10929	1.398E-05	3.075E-05	1600
106.0	18.6	12932	1.655E-05	3.640E-05	1600
106.0	21.7	12844	1.648E-05	3.625E-05	1600
106.0	24.8	7303	9.340E-06	2.055E-05	1600
106.0	31.0	5748	7.415E-06	1.631E-05	1600
106.0	37.2	2740	3.555E-06	7.821E-06	1600
106.0	43.4	2997	3.832E-06	8.431E-06	1600
106.0	49.6	1235	1.580E-06	3.476E-06	1600
106.0	55.8	501	6.394E-07	1.407E-06	1600
106.0	62.0	166	2.124E-07	4.673E-07	1600

SECONDARY SERIES EXPERIMENT: XE-4F
ZINC SULFIDE AND FLUORESCIN WERE BOTH USED AS TRACKERS DURING
EXPERIMENT XE-4. FLUORESCIN RESULTS ARE PRESENTED HERE. GROUND
LEVEL AND TOWER SAMPLING 200-1600 M ARCS.

TOWER DATA FOLLOW...

TEST XE4F AUGUST 11, 1965 0300 TO 0308 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
200M ARC U= 2.2 M/SEC AT 2M

TEST XE4F	AUGUST 11, 1965	0300 TO 0308 PST	AZIMUTH	HEIGHT	EXPOSURE	E/O	EU/O	DISTANCE
FLUORESCIN RELEASE FROM ELEVATION OF 2M			DEGREES	METERS	GM-SEC/CM ²	SEC/CM ²	1/SQ.M	METERS
200M ARC	SAMPLER HT 1.5M	U= 2.2 M/SEC AT 2M			X10E+6			
			98.0	0.3	81081	3.702E-04	8.145E-04	200
			98.0	0.7	81081	3.702E-04	8.145E-04	200
			98.0	1.4	87837	4.011E-04	8.824E-04	200
			98.0	2.7	87837	4.011E-04	8.824E-04	200
			98.0	4.1	81081	3.702E-04	8.145E-04	200
			98.0	5.4	81081	3.702E-04	8.145E-04	200
			98.0	6.8	1959	8.947E-06	1.968E-05	200
			98.0	8.1	52027	2.376E-04	5.226E-04	200
			98.0	9.4	45270	2.067E-04	4.548E-04	200
			98.0	10.8	39864	1.820E-04	4.005E-04	200
			98.0	13.5	20270	9.256E-05	2.036E-04	200
			98.0	16.2	12837	5.862E-05	1.290E-04	200
			98.0	18.9	6418	2.931E-05	6.448E-05	200
			98.0	21.6	2702	1.234E-05	2.715E-05	200
			98.0	24.3	945	4.319E-06	9.503E-06	200
			98.0	27.0	121	5.553E-07	1.222E-06	200
			106.0	0.3	114864	5.245E-04	1.154E-03	200
			106.0	0.7	128378	5.862E-04	1.290E-03	200
			106.0	1.4	135135	6.171E-04	1.358E-03	200
			106.0	4.1	121621	5.553E-04	1.222E-03	200
			106.0	5.4	114864	5.245E-04	1.154E-03	200
			106.0	6.8	101351	4.628E-04	1.018E-03	200
			106.0	8.1	87837	4.011E-04	8.824E-04	200
			106.0	9.4	74324	3.394E-04	7.466E-04	200
			106.0	10.8	52702	2.407E-04	5.294E-04	200
			106.0	13.5	41891	1.913E-04	4.208E-04	200
			106.0	16.2	48648	2.221E-04	4.887E-04	200
			106.0	18.9	18203	8.330E-05	1.833E-04	200
			106.0	21.6	8783	4.011E-05	8.824E-05	200
			106.0	24.3	4729	2.160E-05	4.751E-05	200
			106.0	27.0	2432	1.111E-05	2.444E-05	200
			114.0	0.3	9459	4.319E-05	9.503E-05	200
			114.0	0.7	15540	7.096E-05	1.561E-04	200
			114.0	1.4	8783	4.011E-05	8.824E-05	200
			114.0	2.7	12162	5.553E-05	1.222E-04	200
			114.0	4.1	10810	4.936E-05	1.086E-04	200
			114.0	5.4	12162	5.553E-05	1.222E-04	200
			114.0	6.8	11486	5.245E-05	1.154E-04	200
			114.0	8.1	9459	4.319E-05	9.503E-05	200
			114.0	9.4	10135	4.628E-05	1.018E-04	200
			114.0	10.8	9459	4.319E-05	9.503E-05	200
			114.0	13.5	5675	2.592E-05	5.702E-05	200
			114.0	16.2	4594	2.098E-05	4.616E-05	200
			114.0	18.9	1621	7.405E-06	1.629E-05	200
			114.0	21.6	1216	5.553E-06	1.222E-05	200
			114.0	24.3	1824	8.330E-06	1.833E-05	200
CROSSKIND INTEGRATED=	3.173E-02	6.980E-02						
	SEC/SQ.M	1/M						

TOWER DATA FOLLOW...

TEST XE4F AUGUST 11, 1965 0300 TO 0308 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
ROOM ARC U= 2.2 M/SEC AT 2M

TEST XE4F AUGUST 11, 1965 0300 TO 0308 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
ROOM ARC SAMPLER HT 1.5M U= 2.2 M/SEC AT 2M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE
DEGREES GM-SEC/CM SEC/CM 1/SM METERS
X10E+6

70.0	3	1.671E-04	3.677E-08	800
72.0	2	1.045E-08	2.298E-08	800
74.0	4	2.26AE-0A	4.990E-08	800
76.0	3	1.492E-08	3.283E-08	800
78.0	7	3.581E-08	7.879E-08	800
80.0	5	2.32AE-08	5.121E-08	800
82.0	7	3.581E-08	7.879E-08	800
84.0	5	2.626E-08	5.77AE-08	800
86.0	8	3.880E-0A	8.536E-08	800
88.0	12	5.670E-08	1.247E-07	800
90.0	8	3.880E-0A	8.536E-08	800
92.0	5	2.38AE-0A	5.253E-08	800
94.0	7	3.283E-08	7.222E-08	800
96.0	457	2.089E-06	4.596E-06	800
98.0	1503	6.864E-06	1.510E-05	800
100.0	6339	2.895E-05	6.369E-05	800
102.0	3267	1.492E-05	3.283E-05	800
104.0	24183	1.104E-04	2.429E-04	800
106.0	17647	8.058E-05	1.773E-04	800
108.0	8496	3.880E-05	8.536E-05	800
110.0	2483	1.134E-05	2.495E-05	800
112.0	1568	7.163E-06	1.576E-05	800
114.0	24	1.104E-07	2.429E-07	800
116.0	5	2.567E-08	5.647E-08	800
118.0	2	1.253E-08	2.758E-08	800
120.0	7	3.581E-08	7.879E-08	800
122.0	4	2.029E-08	4.465E-08	800
124.0	3	1.612E-08	3.546E-08	800
126.0	2	9.550E-09	2.101E-08	800

CROSSWIND INTEGRATED= 8.426E-03 1.854E-02
SEC/SM 1/M

AZIMUTH HEIGHT EXPOSURE F/Q EU/Q DISTANCE
DEGREES METERS GM-SEC/CM SEC/CM 1/SM METERS
X10E+6

98.0	0.3	1437	6.566E-06	1.444E-05	800
98.0	0.5	1797	8.207E-06	1.806E-05	800
98.0	1.0	1437	6.566E-06	1.444E-05	800
98.0	2.1	1699	7.760E-06	1.707E-05	800
98.0	4.2	1568	7.163E-06	1.576E-05	800
98.0	6.3	1568	7.163E-06	1.576E-05	800
98.0	8.4	1307	5.969E-06	1.313E-05	800
98.0	10.5	1045	4.775E-06	1.051E-05	800
98.0	12.6	1111	5.074E-06	1.116E-05	800
98.0	14.7	431	1.970E-06	4.333E-06	800
98.0	16.8	718	3.283E-06	7.222E-06	800
98.0	21.0	392	1.791E-06	3.939E-06	800
98.0	25.2	169	7.760E-07	1.707E-06	800
98.0	29.4	71	3.283E-07	7.222E-07	800
98.0	33.6	10	4.775E-08	1.051E-07	800
98.0	37.8	0	3.581E-09	7.879E-09	800
98.0	42.0	3	1.492E-08	3.283E-08	800

AZIMUTH HEIGHT EXPOSURE E/Q EU/Q DISTANCE
DEGREES METERS GM-SEC/CM SEC/CM 1/SM METERS
X10E+6

106.0	0.3	19607	8.953E-05	1.970E-04	800
106.0	0.5	22222	1.015E-04	2.232E-04	800
106.0	1.0	26143	1.194E-04	2.626E-04	800
106.0	4.2	22875	1.045E-04	2.298E-04	800
106.0	6.3	22875	1.045E-04	2.298E-04	800
106.0	8.4	22875	1.045E-04	2.298E-04	800
106.0	10.5	21568	9.849E-05	2.167E-04	800
106.0	12.6	18300	8.356E-05	1.838E-04	800
106.0	14.7	18300	8.356E-05	1.838E-04	800
106.0	16.8	18950	8.655E-05	1.904E-04	800
106.0	21.0	12418	5.670E-05	1.248E-04	800
106.0	25.2	9150	4.178E-05	9.192E-05	800
106.0	29.4	5359	2.447E-05	5.384E-05	800
106.0	33.6	3529	1.612E-05	3.546E-05	800
106.0	37.8	1895	8.655E-06	1.904E-05	800
106.0	42.0	784	3.581E-06	7.879E-06	800

AZIMUTH HEIGHT EXPOSURE F/Q EU/Q DISTANCE
DEGREES METERS GM-SEC/CM SEC/CM 1/SM METERS
X10E+6

114.0	0.3	13	5.969E-08	1.313E-07	800
114.0	0.5	5	2.686E-08	5.909E-08	800
114.0	1.0	13	6.267E-08	1.379E-07	800
114.0	2.1	7	3.283E-08	7.222E-08	800
114.0	4.2	15	6.864E-08	1.510E-07	800
114.0	6.3	15	7.163E-08	1.576E-07	800
114.0	8.4	9	4.477E-08	9.849E-08	800
114.0	10.5	41	1.910E-07	4.202E-07	800
114.0	12.6	58	2.686E-07	5.909E-07	800
114.0	14.7	44	2.029E-07	4.465E-07	800
114.0	16.8	84	3.880E-07	8.536E-07	800
114.0	21.0	98	4.477E-07	9.849E-07	800
114.0	25.2	84	3.880E-07	8.536E-07	800
114.0	29.4	117	5.372E-07	1.182E-06	800
114.0	33.6	117	5.372E-07	1.182E-06	800
114.0	37.8	84	3.880E-07	8.536E-07	800
114.0	42.0	84	3.880E-07	8.536E-07	800

TOWER DATA FOLLOW....

TEST XE4F AUGUST 11, 1965 0300 TO 0308 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 2.2 M/SEC AT 2M

TEST XE4F AUGUST 11, 1965 0300 TO 0308 PST FLUORESCIN RELEASE FROM ELEVATION OF 2M 1600M ARC SAMPLER HT 1.5M U= 2.2 M/SEC AT 2M					AZIMUTH HEIGHT EXPOSURE E/Q EU/Q DISTANCE DEGREES METERS GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS X10E+6					
91.0	1	7.045E-09	1.559E-08	1600	98.0	0.2	24	1.142E-07	2.511E-07	1600
92.0	2	1.063E-08	2.338E-08	1600	98.0	0.4	24	1.142E-07	2.511E-07	1600
93.0	0	4.330E-09	9.526E-09	1600	98.0	0.8	22	1.023E-07	2.252E-07	1600
94.0	17	7.873E-08	1.732E-07	1600	98.0	1.5	26	1.220E-07	2.685E-07	1600
95.0	11	5.117E-08	1.126E-07	1600	98.0	3.1	26	1.220E-07	2.685E-07	1600
96.0	12	5.511E-08	1.212E-07	1600	98.0	6.2	24	1.142E-07	2.511E-07	1600
97.0	22	1.023E-07	2.252E-07	1600	98.0	9.3	22	1.023E-07	2.252E-07	1600
98.0	29	1.338E-07	2.944E-07	1600	98.0	12.4	16	7.479E-08	1.645E-07	1600
99.0	81	3.740E-07	8.227E-07	1600	98.0	15.5	23	1.063E-07	2.338E-07	1600
100.0	181	8.266E-07	1.819E-06	1600	98.0	18.6	8	3.936E-08	8.660E-08	1600
101.0	948	4.330E-06	9.526E-06	1600	98.0	21.7	8	3.740E-08	8.227E-08	1600
102.0	2672	1.220E-05	2.685E-05	1600	98.0	24.8	7	3.346E-08	7.361E-08	1600
103.0	5603	2.559E-05	5.629E-05	1600	98.0	31.0	7	3.543E-08	7.794E-08	1600
104.0	9913	4.527E-05	9.959E-05	1600	98.0	37.2	8	3.740E-08	8.227E-08	1600
105.0	5603	2.559E-05	5.629E-05	1600	98.0	43.4	7	3.346E-08	7.361E-08	1600
106.0	6896	3.149E-05	6.928E-05	1600	98.0	49.6	7	3.543E-08	7.794E-08	1600
107.0	4008	1.810E-05	4.027E-05	1600	98.0	55.8	6	2.755E-08	6.062E-08	1600
108.0	1379	6.298E-06	1.386E-05	1600	98.0	62.0	6	2.952E-08	6.495E-08	1600
109.0	431	1.968E-06	4.330E-06	1600						
110.0	172	7.873E-07	1.732E-06	1600	AZIMUTH HEIGHT EXPOSURE E/Q EU/Q DISTANCE DEGREES METERS GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS X10E+6					
111.0	15	7.282E-08	1.602E-07	1600	106.0	0.2	6465	2.952E-05	6.495E-05	1600
112.0	11	5.117E-08	1.126E-07	1600	106.0	0.4	6465	2.952E-05	6.495E-05	1600
113.0	15	7.045E-08	1.559E-07	1600	106.0	0.8	7327	3.346E-05	7.361E-05	1600
114.0	2	1.181E-08	2.598E-08	1600	106.0	1.5	1472	6.495E-05	1.429E-05	1600
115.0	0	2.362E-09	5.196E-09	1600	106.0	6.2	8620	3.936E-05	8.660E-05	1600
					106.0	9.3	8620	3.936E-05	8.660E-05	1600
					106.0	12.4	5172	2.362E-05	5.196E-05	1600
					106.0	15.5	8620	3.936E-05	8.660E-05	1600
					106.0	18.6	8620	3.936E-05	8.660E-05	1600
					106.0	21.7	7758	3.543E-05	7.794E-05	1600
					106.0	24.8	5603	2.559E-05	5.629E-05	1600
					106.0	31.0	4008	1.810E-05	4.027E-05	1600
					106.0	37.2	2672	1.220E-05	2.685E-05	1600
					106.0	43.4	1551	7.085E-06	1.559E-05	1600
					106.0	49.6	1551	7.085E-06	1.559E-05	1600
					106.0	55.8	862	3.936E-06	8.660E-06	1600
					106.0	62.0	240	1.279E-06	2.815E-06	1600

CROSSWIND INTEGRATED= 4.850E-03 1.067E-02
SEC/SQ.M 1/M

Xenon Data for Xe-4

<u>Position*</u>	<u>E/0</u>
1-094	3.66-5
1-102	7.89-4
1-106	5.38-4
1-110	3.01-4
1-114	7.47-5
2-098	5.94-6
2-102	2.09-5
2-106	1.07-4
2-110	1.32-5
3-100	1.80-6
3-103	3.31-5
3-106	4.23-5
3-109	3.58-6
3-112	3.38-7

*Stable grid

SECONDARY SERIES EXPERIMENT: XE-5
ZINC SULFIDE AND FLUOROSCEIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT XE-5. ZINC FLUORIDE RESULTS ARE PRESENTED HERE.
GROUND LEVEL AND TOWER SAMPLING 200-1500 M ARCS.

TEST XE-5 NOVEMBER 16, 1965 0612 TO 0619 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 2.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/C SEC/CU.M	FU/C 1/SEC.M	DISTANCE METERS
108.0	0.3	159	5.324E-07	1.172E-06	200
110.0	0.7	1143	3.810E-06	8.392E-06	200
112.0	1.4	1494	4.963E-05	1.094E-04	200
114.0	2.7	7300	2.457E-05	5.393E-05	200
116.0	4.1	16580	5.531E-04	1.217E-03	200
118.0	5.4	250003	8.360E-04	1.839E-03	200
120.0	6.8	242227	8.070E-04	1.776E-03	200
122.0	8.1	158851	5.205E-04	1.165E-03	200
124.0	9.4	72237	2.408E-04	5.297E-04	200
126.0	10.8	21431	7.277E-05	1.601E-04	200
128.0	12.2	4885	1.620E-05	3.583E-05	200
130.0	13.5	200	0.622E-07	2.118E-06	200
132.0	14.9	12	4.007E-09	6.013E-08	200
134.0	16.2	36	1.229E-07	2.704E-07	200
136.0	17.6	55	1.840E-07	4.056E-07	200

CROSSWIND INTEGRATED= 2.109E-02 4.216E-02
SEC/SEC.M 1/M

TOWER DATA FOLLOW...

TEST XE-5 NOVEMBER 16, 1965 0612 TO 0619 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 2.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/C SEC/CU.M	FU/C 1/SEC.M	DISTANCE METERS
106.0	0.3	57	1.907E-07	4.105E-07	200
108.0	0.7	50	1.683E-07	3.702E-07	200
110.0	1.4	40	1.352E-07	2.910E-07	200
112.0	2.7	27	9.250E-08	2.035E-07	200
114.0	4.1	30	1.281E-07	2.818E-07	200
116.0	5.4	38	1.281E-07	2.818E-07	200
118.0	6.8	14	3.981E-08	1.096E-07	200
120.0	8.1	19	6.404E-08	1.409E-07	200
122.0	9.4	49	1.637E-07	3.600E-07	200
124.0	10.8	60	2.277E-07	5.049E-07	200
126.0	12.2	10	3.559E-08	7.827E-08	200

AZIMUTH HEIGHT EXPOSURE F/C FU/C DISTANCE
DEGREES METERS GM-SEC/CU.M SEC/CU.M 1/SEC.M METERS

130.0	0.3	447	1.492E-06	3.282E-06	200
132.0	0.7	884	1.615E-06	3.550E-06	200
134.0	1.4	973	3.245E-06	7.138E-06	200
136.0	2.7	12	1.067E-07	2.340E-07	200
138.0	4.1	294	9.815E-07	2.160E-06	200
140.0	5.4	300	1.003E-06	2.207E-06	200
142.0	6.8	473	1.580E-06	3.475E-06	200
144.0	8.1	51	1.708E-07	3.757E-07	200
146.0	9.4	132	8.411E-07	4.705E-07	200
148.0	10.8	51	1.708E-07	3.757E-07	200
150.0	12.2	165	5.550E-07	1.221E-06	200
152.0	13.5	91	3.060E-07	6.731E-07	200
154.0	14.9	12	1.067E-07	2.348E-07	200

TEST XE-5 NOVEMBER 16, 1965 0612 TO 0619 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 2.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/C SEC/CU.M	FU/C 1/SEC.M	DISTANCE METERS
110.0	0.3	35315	1.177E-04	2.590E-04	200
112.0	0.7	43559	1.452E-04	3.194E-04	200
114.0	1.4	31730	1.058E-04	2.328E-04	200
116.0	2.7	34203	1.143E-04	2.514E-04	200
118.0	4.1	36334	1.211E-04	2.665E-04	200
120.0	5.4	30308	1.276E-04	2.815E-04	200
122.0	6.8	32609	1.388E-04	2.394E-04	200
124.0	8.1	32620	1.087E-04	2.392E-04	200
126.0	9.4	20905	9.998E-05	2.200E-04	200
128.0	10.8	27110	9.240E-05	1.989E-04	200
130.0	12.2	18105	6.045E-05	1.334E-04	200
132.0	13.5	7029	2.610E-05	5.742E-05	200
134.0	14.9	4120	1.357E-05	3.078E-05	200
136.0	16.2	802	2.998E-06	6.590E-05	200
138.0	17.6	140	6.156E-07	1.354E-05	200
140.0	19.0	15	5.005E-08	1.101E-07	200

AZIMUTH HEIGHT EXPOSURE F/C FU/C DISTANCE
DEGREES METERS GM-SEC/CU.M SEC/CU.M 1/SEC.M METERS

110.0	0.3	241	2.710E-07	1.918E-06	200
112.0	0.7	1152	3.840E-06	8.501E-06	200
114.0	1.4	11144	3.716E-05	8.174E-05	200
116.0	2.7	32600	1.068E-04	2.350E-04	200
118.0	4.1	37631	1.250E-04	2.760E-04	200
120.0	5.4	16977	5.650E-05	1.205E-04	200
122.0	6.8	3502	1.181E-05	2.598E-05	200
124.0	8.1	404	1.387E-06	2.964E-06	200
126.0	9.4	14	4.951E-08	1.090E-07	200

CROSSWIND INTEGRATED= 0.645E-03 2.113E-02
SEC/SEC.M 1/M

TOWER DATA FOLLOW.....

TEST XF-5 NOVEMBER 16, 1965 0612 TO 0618 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC U= 2.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	F/D 1/50.M	DISTANCE METERS
122.0	0.3	28074	9.345E+05	2.056E+04	800
122.0	0.5	24040	7.680E+05	1.690E+04	800
122.0	1.0	17922	5.974E+05	1.314E+04	800
122.0	2.1	21486	7.162E+05	1.576E+04	800
122.0	4.2	18087	6.026E+05	1.326E+04	800
W 122.0	6.3	6068	2.003E+05	4.404E+03	800
W 122.0	8.4	5413	1.805E+05	3.970E+03	800
W 122.0	10.5	6853	2.284E+05	5.026E+03	800
W 122.0	12.6	7016	2.336E+05	5.145E+03	800
W 122.0	14.7	8160	2.701E+05	5.947E+03	800
W 122.0	16.8	7102	2.368E+05	5.209E+03	800
W 122.0	21.0	8315	2.776E+05	6.113E+03	800
W 122.0	25.2	2741	9.305E+04	2.047E+03	800
W 122.0	29.4	4350	1.453E+05	3.196E+03	800
W 122.0	33.6	2437	8.123E+04	1.787E+03	800
W 122.0	37.8	1346	4.488E+04	9.873E+02	800
W 122.0	42.0	649	2.164E+04	4.761E+02	800

TOWER DATA FOLLOW.....

TEST XF-5 NOVEMBER 16, 1965 0612 TO 0618 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC U= 2.2 M/SEC AT 2M

TEST XF-5 NOVEMBER 16, 1965 0612 TO 0619 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLE HT 1.5M U= 2.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	F/D 1/50.M	DISTANCE METERS
116.0	16	5.865E+08	1.202E+07	1600
117.0	45	1.503E+07	3.304E+07	1600
118.0	133	4.000E+07	9.768E+07	1600
119.0	308	1.161E+06	2.555E+06	1600
120.0	1505	5.160E+06	1.133E+05	1600
121.0	6688	2.210E+05	4.905E+05	1600
122.0	11162	3.721E+05	8.186E+05	1600
123.0	16219	5.407E+05	1.189E+04	1600
124.0	14641	9.981E+05	1.074E+04	1600
125.0	8588	2.843E+05	6.298E+05	1600
126.0	2231	7.439E+06	1.637E+05	1600
127.0	512	1.708E+06	3.757E+06	1600
128.0	51	1.708E+07	3.757E+07	1600
129.0	8	2.732E+08	6.911E+08	1600

CROSSHAIR INTEGRATED = 5.789E+03 1.274E+02
SEC/50.M 1/M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	F/D 1/50.M	DISTANCE METERS
122.0	0.2	4308	1.436E+05	3.160E+05	1600
122.0	0.4	4003	1.335E+05	2.936E+05	1600
122.0	0.8	10510	3.504E+05	7.708E+05	1600
122.0	1.5	4065	2.689E+05	5.915E+05	1600
122.0	3.1	14288	3.427E+05	7.539E+05	1600
122.0	6.2	8740	2.760E+05	6.072E+05	1600
122.0	9.3	11982	3.998E+05	8.787E+05	1600
122.0	12.4	11293	3.765E+05	8.282E+05	1600
122.0	15.5	11258	3.753E+05	8.256E+05	1600
122.0	18.6	11233	3.745E+05	8.238E+05	1600
122.0	21.7	11088	3.683E+05	8.102E+05	1600
122.0	24.8	7526	2.509E+05	5.520E+05	1600
122.0	31.0	5722	1.910E+05	4.202E+05	1600
122.0	37.2	4450	1.483E+05	3.263E+05	1600
122.0	43.4	2050	6.834E+04	1.503E+05	1600
122.0	49.6	854	2.853E+04	6.278E+04	1600
122.0	55.8	200	6.672E+03	1.468E+04	1600
122.0	62.0	61	2.051E+03	4.511E+03	1600

SECONDARY SERIES EXPERIMENT: XE-5F
ZINC SULFIDE AND FLUORESCCEIN WERE BOTH USED AS TRACERS DURING
EXPERIMENT XE-5. FLUORESCCEIN RESULTS ARE PRESENTED HERE. GROUND
LEVEL AND TOWER SAMPLING 200-1600 M ARCS.

TEST YFSF NOVEMBER 16, 1965 0612 TO 0618 PST
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLED AT 1.5M U= 2.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SEC	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	EU/D 1/SEC	DISTANCE METERS
106.0	9	4.739E-08	1.043E-07	200	114.0	0.3	6054	2.869E-05	6.312E-05	200
106.0	17	8.450E-08	1.060E-07	200	114.0	0.7	6000	2.844E-05	6.256E-05	200
110.0	156	7.429E-07	1.634E-06	200	114.0	1.4	7027	3.330E-05	7.327E-05	200
112.0	1729	8.138E-06	1.604E-05	200	114.0	2.7	7770	3.683E-05	8.102E-05	200
114.0	670	3.177E-06	6.989E-06	200	114.0	5.4	7229	3.426E-05	7.538E-05	200
116.0	41216	1.953E-04	4.297E-04	200	114.0	6.8	6756	3.202E-05	7.045E-05	200
118.0	87162	4.131E-04	9.088E-04	200	114.0	8.1	5675	2.690E-05	5.918E-05	200
120.0	105405	4.966E-04	1.094E-03	200	114.0	9.4	7162	3.394E-05	7.468E-05	200
122.0	99999	6.739E-04	1.043E-03	200	114.0	10.8	4702	2.229E-05	4.903E-05	200
124.0	46418	2.200E-04	4.440E-04	200	114.0	13.5	3081	1.460E-05	3.213E-05	200
126.0	16351	7.749E-05	1.705E-04	200	114.0	16.2	1608	7.621E-06	1.677E-05	200
128.0	3743	1.793E-05	3.445E-05	200	114.0	18.9	572	2.716E-06	5.974E-06	200
130.0	19	9.351E-06	2.057E-07	200	114.0	21.6	113	5.380E-07	1.184E-06	200
132.0	26	1.242E-07	2.733E-07	200	114.0	24.3	27	3.683E-07	8.102E-07	200
134.0	21	1.012E-07	2.226E-07	200	114.0	27.0	5	2.664E-08	5.861E-08	200
136.0	19	9.351E-06	2.057E-07	200						

CROSS-IND INTEGRATED= 1.333E-02 2.934E-02
SEC/30.4M 1/M

AZIMUTH HEIGHT EXPOSURE E/D EU/D DISTANCE
DEGREES METERS GM-SEC/CM² SEC/CM² 1/SEC METERS
X10E+6

TOWER DATA FOLLOW.....

TEST YFSF NOVEMBER 16, 1965 0612 TO 0618 PST
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M
200M ARC U= 2.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/D SEC/CM ²	F/D 1/SEC	DISTANCE METERS
106.0	0.3	1	7.685E-09	1.691E-08	200
106.0	0.7	3	3.843E-09	8.450E-08	200
106.0	1.4	1	5.634E-09	1.240E-08	200
106.0	2.7	1	9.090E-09	2.001E-08	200
106.0	4.1	0	3.202E-09	7.045E-09	200
106.0	5.4	1	7.685E-09	1.691E-08	200
106.0	6.8	1	5.634E-09	1.240E-08	200
106.0	8.1	0	2.750E-09	6.059E-09	200
106.0	10.8	4	1.765E-08	4.368E-08	200
106.0	13.5	2	1.166E-08	2.568E-08	200
106.0	16.2	4	2.242E-08	4.931E-08	200
106.0	18.9	3	1.574E-08	3.466E-08	200
106.0	21.6	15	7.301E-08	1.606E-07	200
106.0	24.3	13	6.533E-08	1.437E-07	200
106.0	27.0	0	3.651E-09	8.031E-09	200

AZIMUTH HEIGHT EXPOSURE E/D EU/D DISTANCE
DEGREES METERS GM-SEC/CM² SEC/CM² 1/SEC METERS
X10E+6

130.0	0.3	213	1.012E-06	2.226E-06	200
130.0	0.7	189	8.966E-07	1.973E-06	200
130.0	1.4	224	1.063E-06	2.339E-06	200
130.0	2.7	62	2.946E-07	6.481E-07	200
130.0	4.1	148	7.045E-07	1.550E-06	200
130.0	5.4	378	1.793E-06	3.945E-06	200
130.0	6.8	500	2.562E-06	5.636E-06	200
130.0	8.1	364	1.729E-06	3.804E-06	200
130.0	9.4	66	3.138E-07	6.904E-07	200
130.0	10.8	49	2.370E-07	5.213E-07	200
130.0	13.5	148	7.045E-07	1.550E-06	200
130.0	16.2	101	9.094E-07	2.001E-06	200
130.0	18.9	66	3.138E-07	6.904E-07	200
130.0	21.6	47	2.202E-07	4.931E-07	200
130.0	24.3	8	3.907E-08	8.595E-08	200
130.0	27.0	21	1.012E-07	2.226E-07	200

TEST YESF NOVEMBER 14, 1965 0612 TO 0618 PST
 FLUORESCENCE RELEASE FROM ELEVATION OF 2M
 1600M ARC SAMPLER HT 1.5M U= 2.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
108.0	0.3	2	1.363E-08	2.998E-08	800
110.0	0.5	3	1.735E-08	3.816E-08	800
112.0	0.7	2	1.028E-08	2.262E-08	800
114.0	0.9	5	2.478E-08	5.452E-08	800
116.0	1.1	31	1.487E-07	3.271E-07	800
118.0	1.3	3450	1.636E-05	3.598E-05	800
120.0	1.5	14640	6.939E-05	1.526E-04	800
122.0	1.7	2091	9.912E-06	2.181E-05	800
124.0	1.9	10196	9.832E-05	1.963E-04	800
126.0	2.1	596	2.825E-06	6.215E-06	800
128.0	2.3	287	1.363E-06	2.998E-06	800
130.0	2.5	7	3.779E-08	8.314E-08	800
132.0	2.7	0	3.098E-09	6.815E-09	800
134.0	2.9	31	1.481E-07	3.257E-07	800
136.0	3.1	2	9.788E-09	2.153E-08	800
138.0	3.3	2	1.363E-08	2.998E-08	800

CROSSKIND INTEGRATED= 0.149E-03 SEC/SQ.M
 9.129E-03 1/M

TOWER DATA FOLLOW....

TEST YESF NOVEMBER 14, 1965 0612 TO 0618 PST
 FLUORESCENCE RELEASE FROM ELEVATION OF 2M
 1600M ARC U= 2.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
114.0	0.3	4	2.317E-08	5.097E-08	800
114.0	0.5	7	3.469E-08	7.632E-08	800
114.0	0.7	9	4.275E-08	9.404E-08	800
114.0	0.9	9	4.646E-08	1.022E-07	800
114.0	1.1	7	3.407E-08	7.496E-08	800
114.0	1.3	3	1.747E-08	3.844E-08	800
114.0	1.5	3	1.673E-08	3.680E-08	800
114.0	1.7	4	2.230E-08	4.907E-08	800
114.0	1.9	6	3.090E-08	6.815E-08	800
114.0	2.1	2	1.078E-08	2.372E-08	800
114.0	2.3	2	1.128E-08	2.481E-08	800
114.0	2.5	1	6.443E-09	1.417E-08	800
114.0	2.7	4	2.168E-08	4.770E-08	800
114.0	2.9	3	1.735E-08	3.816E-08	800
114.0	3.1	1	7.434E-09	1.636E-08	800
114.0	3.3	1	8.921E-09	1.963E-08	800
114.0	3.5	2	1.363E-08	2.998E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
122.0	0.3	125	5.947E-07	1.308E-06	800
122.0	0.5	135	6.443E-07	1.417E-06	800
122.0	0.7	277	1.313E-06	2.889E-06	800
122.0	0.9	183	8.673E-07	1.908E-06	800
122.0	1.1	39	1.883E-07	4.143E-07	800
122.0	1.3	120	5.700E-07	1.254E-06	800
122.0	1.5	51	2.429E-07	5.343E-07	800
122.0	1.7	261	1.239E-06	2.726E-06	800
122.0	1.9	80	1.933E-07	4.252E-07	800
122.0	2.1	2143	1.016E-05	2.235E-05	800
122.0	2.3	1084	1.462E-05	3.217E-05	800
122.0	2.5	1568	7.434E-06	1.636E-05	800
122.0	2.7	1934	9.169E-06	2.017E-05	800
122.0	2.9	973	4.615E-06	1.015E-05	800
122.0	3.1	734	3.717E-06	8.178E-06	800
122.0	3.3	355	1.685E-06	3.707E-06	800

TEST YESF NOVEMBER 14, 1965 0612 TO 0618 PST
 FLUORESCENCE RELEASE FROM ELEVATION OF 2M
 1600M ARC SAMPLER HT 1.5M U= 2.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
112.0	0.3	21	1.021E-07	2.247E-07	1600
113.0	0.5	19	9.397E-08	2.067E-07	1600
114.0	0.7	10	4.903E-08	1.079E-07	1600
115.0	0.9	11	5.352E-08	1.177E-07	1600
116.0	1.1	6	3.146E-08	6.921E-08	1600
117.0	1.3	144	8.860E-07	1.510E-06	1600
118.0	1.5	251	1.193E-06	2.625E-06	1600
119.0	1.7	431	2.043E-06	4.490E-06	1600
120.0	1.9	1120	5.311E-06	1.168E-05	1600
121.0	2.1	3310	1.569E-05	3.452E-05	1600
122.0	2.3	5732	2.717E-05	5.977E-05	1600
123.0	2.5	8620	4.046E-05	8.988E-05	1600
124.0	2.7	7241	3.432E-05	7.550E-05	1600
125.0	2.9	4206	1.994E-05	4.386E-05	1600
126.0	3.1	1275	6.047E-06	1.330E-05	1600
127.0	3.3	251	1.193E-06	2.625E-06	1600
128.0	3.5	28	1.308E-07	2.966E-07	1600
129.0	3.7	13	6.251E-08	1.375E-07	1600
130.0	3.9	5	2.570E-08	5.663E-08	1600
131.0	4.1	7	3.432E-08	7.550E-08	1600

CROSSKIND INTEGRATED= 4.329E-03 SEC/SQ.M
 9.525E-03 1/M

TOWER DATA FOLLOW....

TEST YESF NOVEMBER 14, 1965 0612 TO 0618 PST
 FLUORESCENCE RELEASE FROM ELEVATION OF 2M
 1600M ARC U= 2.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
114.0	0.3	6	3.228E-08	7.101E-08	1600
114.0	0.5	1	8.580E-09	1.888E-08	1600
114.0	0.7	0	4.576E-09	1.007E-08	1600
114.0	0.9	1	7.436E-09	1.636E-08	1600
114.0	1.1	1	8.743E-09	1.920E-08	1600
114.0	1.3	7	3.350E-08	7.370E-08	1600
114.0	1.5	20	9.724E-08	2.139E-07	1600
114.0	1.7	34	1.634E-07	3.595E-07	1600
114.0	1.9	6	3.269E-08	7.191E-08	1600
114.0	2.1	7	3.677E-08	8.090E-08	1600
114.0	2.3	6	3.146E-08	6.921E-08	1600
114.0	2.5	11	5.638E-08	1.240E-07	1600
114.0	2.7	20	9.806E-08	2.157E-07	1600
114.0	2.9	18	8.825E-08	1.941E-07	1600
114.0	3.1	2	1.103E-08	2.427E-08	1600
114.0	3.3	1	8.253E-09	1.816E-08	1600
114.0	3.5	10	5.148E-08	1.133E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. ² X10E+6	E/D SEC/CM. ²	F/D 1/SEC. ²	DISTANCE METERS
122.0	0.2	310	1.471E-06	3.236E-06	1600
122.0	0.4	655	3.105E-06	6.931E-06	1600
122.0	1.5	5603	2.656E-05	5.842E-05	1600
122.0	3.1	6767	3.207E-05	7.056E-05	1600
122.0	6.2	5603	2.656E-05	5.842E-05	1600
122.0	9.3	5806	3.269E-05	7.191E-05	1600
122.0	12.4	6022	3.044E-05	6.696E-05	1600
122.0	15.5	6206	2.942E-05	6.472E-05	1600
122.0	18.6	5387	2.554E-05	5.618E-05	1600
122.0	21.7	4789	2.268E-05	4.989E-05	1600
122.0	24.8	4310	2.043E-05	4.494E-05	1600
122.0	31.0	3034	1.438E-05	3.164E-05	1600
122.0	37.2	2068	9.806E-06	2.157E-05	1600
122.0	43.4	1137	5.393E-06	1.186E-05	1600
122.0	49.6	461	2.186E-06	4.809E-06	1600
122.0	55.8	12	5.720E-08	1.258E-07	1600
122.0	62.0	26	1.258E-07	2.768E-07	1600

Xenon Data for Xe-5

<u>Position*</u>	<u>E/Q</u>
1-108	5.15-6
1-114	2.16-4
1-120	8.85-4
1-126	1.05-4
1-130	3.12-6
2-114	1.67-7
2-120	1.72-4
2-126	5.96-5
2-130	2.12-5
3-118	4.48-6
3-122	8.15-5
3-126	1.02-5

*Stable grid

SECONDARY SERIES EXPERIMENT: A-2
GROUND LEVEL AND TOWER SAMPLING ON THE 3200 M ARC. GROUND LEVEL
SAMPLING ONLY ON THE 200 AND 800 M ARCS.

TEST A-2 SEPTEMBER 2, 1966 1742 TO 1843 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 4.5 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/U SEC/CM ²	F/U 1/SEC ²	DISTANCE METERS
110.0	232	1.746E-07	7.456E-07	200
112.0	1185	8.401E-07	4.001E-06	200
114.0	6655	6.493E-06	2.922E-05	200
116.0	17055	1.279E-05	5.754E-05	200
118.0	50500	4.092E-05	1.841E-04	200
120.0	33827	2.538E-05	1.142E-04	200
122.0	109508	8.215E-05	3.697E-04	200
124.0	151576	1.137E-04	5.117E-04	200
126.0	229525	1.714E-04	7.715E-04	200
128.0	228317	1.713E-04	7.708E-04	200
130.0	131805	9.891E-05	4.451E-04	200
132.0	146703	1.101E-04	4.952E-04	200
134.0	60969	4.574E-05	2.058E-04	200
136.0	27626	2.073E-05	9.326E-05	200
138.0	11025	8.271E-06	3.722E-05	200
140.0	3798	2.860E-06	1.282E-05	200
142.0	1870	1.403E-06	6.315E-06	200
144.0	173	1.303E-07	5.862E-07	200
146.0	76	5.775E-08	2.599E-07	200
148.0	51	3.895E-08	1.753E-07	200
154.0	30	2.283E-08	1.027E-07	200

CROSS-IND INTEGRATED= 6.377E-03 SEC/SQ.M
1/M

TEST A-2 SEPTEMBER 2, 1966 1742 TO 1843 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
400M ARC SAMPLER HT 1.5M U= 4.5 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/U SEC/CM ²	F/U 1/SEC ²	DISTANCE METERS
116.0	45	2.858E-08	1.284E-07	800
118.0	287	2.157E-07	9.704E-07	800
120.0	1201	9.491E-07	4.361E-06	800
122.0	5222	3.914E-06	1.763E-05	800
124.0	9330	7.000E-06	3.150E-05	800
126.0	16944	1.271E-05	5.720E-05	800
128.0	11664	8.751E-06	3.938E-05	800
130.0	13444	1.009E-05	4.539E-05	800
132.0	6442	5.248E-06	2.357E-05	800
134.0	6383	4.788E-06	2.155E-05	800
136.0	1858	1.304E-06	6.273E-06	800
138.0	318	2.390E-07	1.076E-06	800
140.0	109	8.184E-08	3.683E-07	800

CROSS-IND INTEGRATED= 1.548E-03 SEC/SQ.M
1/M

TEST A-2 SEPTEMBER 2, 1966 1742 TO 1843 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 4.5 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/U SEC/CM ²	F/U 1/SEC ²	DISTANCE METERS
120.0	16	1.240E-08	5.580E-08	3200
121.0	47	3.530E-08	1.590E-07	3200
122.0	115	8.600E-08	3.904E-07	3200
123.0	277	2.083E-07	9.375E-07	3200
124.0	594	4.458E-07	2.006E-06	3200
125.0	636	4.770E-07	2.148E-06	3200
126.0	666	5.004E-07	2.252E-06	3200
127.0	1252	9.409E-07	4.230E-06	3200
128.0	990	7.428E-07	3.343E-06	3200
129.0	1351	1.010E-06	4.562E-06	3200
130.0	823	6.175E-07	2.779E-06	3200
131.0	980	7.353E-07	3.309E-06	3200
132.0	890	6.684E-07	3.008E-06	3200
133.0	554	4.140E-07	1.872E-06	3200
134.0	175	1.314E-07	5.915E-07	3200
135.0	28	2.170E-08	9.765E-08	3200

CROSS-IND INTEGRATED= 3.939E-04 SEC/SQ.M
1/M

TOXER DATA FOLLOWS...

TEST A-2 SEPTEMBER 2, 1966 1742 TO 1843 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M AWC U= 0.5 M/SEC AT 2M

AZIMUTH	HEIGHT	EXPOSURE	E/Q	EI/Q	DISTANCE
DEGREES	METERS	GM-SEC/CU.M	SEC/CU.M	1/30.M	METERS
		X10E+6			
122.0	0.2	146	1.100E-07	4.949E-07	3200
122.0	0.4	86	6.482E-08	2.917E-07	3200
122.0	0.8	77	5.827E-08	2.622E-07	3200
122.0	1.5	81	6.145E-08	2.765E-07	3200
122.0	3.1	151	1.138E-07	5.121E-07	3200
122.0	6.2	105	7.908E-08	3.559E-07	3200
122.0	9.3	102	7.694E-08	3.462E-07	3200
122.0	12.4	135	1.015E-07	4.568E-07	3200
122.0	15.5	123	9.297E-08	4.184E-07	3200
122.0	18.6	179	1.346E-07	6.059E-07	3200
122.0	21.7	206	1.550E-07	6.973E-07	3200
122.0	24.8	162	1.216E-07	5.470E-07	3200
122.0	31.0	97	7.321E-08	3.295E-07	3200
122.0	37.2	127	9.578E-08	4.310E-07	3200
122.0	43.4	86	6.493E-08	2.922E-07	3200
122.0	49.6	70	5.320E-08	2.394E-07	3200
122.0	55.8	72	5.445E-08	2.450E-07	3200
122.0	62.0	149	1.118E-07	5.033E-07	3200

AZIMUTH	HEIGHT	EXPOSURE	E/Q	EI/Q	DISTANCE
DEGREES	METERS	GM-SEC/CU.M	SEC/CU.M	1/30.M	METERS
		X10E+6			
130.0	0.2	518	3.889E-07	1.750E-06	3200
130.0	0.4	706	5.302E-07	2.386E-06	3200
130.0	0.8	1176	8.827E-07	3.972E-06	3200
130.0	1.5	1136	8.522E-07	3.835E-06	3200
130.0	3.1	1697	1.273E-06	5.730E-06	3200
130.0	6.2	949	6.370E-07	2.868E-06	3200
130.0	9.3	1768	1.320E-06	5.958E-06	3200
130.0	12.4	2110	1.586E-06	7.139E-06	3200
130.0	15.5	1608	1.237E-06	5.566E-06	3200
130.0	18.6	1269	9.527E-07	4.287E-06	3200
130.0	21.7	1964	1.474E-06	6.631E-06	3200
130.0	24.8	1370	1.031E-06	4.641E-06	3200
130.0	31.0	1584	1.189E-06	5.350E-06	3200
130.0	37.2	1602	1.202E-06	5.410E-06	3200
130.0	43.4	1660	1.246E-06	5.605E-06	3200
130.0	49.6	1026	7.703E-07	3.466E-06	3200
130.0	55.8	919	6.894E-07	3.104E-06	3200
130.0	62.0	979	7.095E-07	3.179E-06	3200

SECONDARY SERIES EXPERIMENT: A-5
GROUND LEVEL AND TOWER SAMPLING ON THE 3200 M ARC. GROUND LEVEL
SAMPLING ONLY ON THE 800 M ARC.

TFST A-5 JUNE 6, 1967 0415 TO 0515 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 2.1 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
90.0	62	1.60E-08	3.528E-08	800
92.0	273	7.331E-08	1.539E-07	800
94.0	524	1.405E-07	2.951E-07	800
96.0	1538	4.124E-07	8.660E-07	800
98.0	4399	1.155E-06	2.426E-06	800
100.0	4941	1.336E-06	2.805E-06	800
102.0	4345	2.237E-06	4.699E-06	800
104.0	12082	3.239E-06	6.803E-06	800
106.0	16953	4.545E-06	9.545E-06	800
108.0	19599	5.255E-06	1.103E-05	800
110.0	23687	6.350E-06	1.334E-05	800
Q 112.0	2623	7.033E-07	1.477E-06	800
Q 114.0	3173	8.507E-07	1.786E-06	800
Q 116.0	4799	1.287E-06	2.702E-06	800
Q 118.0	6143	1.658E-06	3.482E-06	800
Q 120.0	9886	2.651E-06	5.566E-06	800
122.0	64296	1.724E-05	3.620E-05	800
124.0	70596	1.893E-05	3.975E-05	800
126.0	52620	1.411E-05	2.963E-05	800
128.0	27754	7.441E-06	1.563E-05	800
130.0	12549	3.365E-06	7.066E-06	800
132.0	7135	1.913E-06	4.017E-06	800
134.0	1623	4.353E-07	9.141E-07	800

CROSSWIND INTEGRATED= 2.642E-03 SEC/SQ.M
5.591E-03 1/M

TFST A-5 JUNE 6, 1967 0415 TO 0515 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 2.1 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	F/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
106.0	38	1.041E-08	2.186E-08	3200
107.0	117	3.149E-08	6.614E-08	3200
108.0	212	5.700E-08	1.197E-07	3200
109.0	425	1.140E-07	2.394E-07	3200
110.0	752	2.017E-07	4.236E-07	3200
111.0	1211	3.248E-07	6.822E-07	3200
112.0	1690	5.068E-07	1.064E-06	3200
113.0	1491	3.998E-07	8.396E-07	3200
114.0	2022	5.422E-07	1.139E-06	3200
115.0	2001	5.367E-07	1.127E-06	3200
116.0	3614	9.691E-07	2.035E-06	3200
117.0	2446	6.646E-07	1.400E-06	3200
118.0	3131	8.394E-07	1.763E-06	3200
119.0	1490	3.995E-07	8.390E-07	3200
120.0	1654	4.435E-07	9.314E-07	3200
121.0	1345	3.608E-07	7.576E-07	3200
122.0	1401	3.759E-07	7.893E-07	3200
123.0	1358	3.641E-07	7.647E-07	3200
124.0	618	1.658E-07	3.482E-07	3200
125.0	194	5.206E-08	1.093E-07	3200
126.0	39	1.067E-08	2.241E-08	3200
127.0	12	3.344E-09	7.106E-09	3200
128.0	15	4.165E-09	8.746E-09	3200

CROSSWIND INTEGRATED= 4.122E-04 SEC/SQ.M
8.656E-04 1/M

TOWER DATA FOLLOW....

TEST A-5 JUNE 6, 1967 0415 TO 0515 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC U= 2.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	F/G SEC/CM ²	EU/G 1/SQ.M	DISTANCE METERS
106.0	0.2	110	2.952E-08	6.198E-08	3200
106.0	0.4	142	3.826E-08	8.035E-08	3200
106.0	0.8	130	3.498E-08	7.346E-08	3200
106.0	1.5	182	4.895E-08	1.028E-07	3200
106.0	3.1	219	5.884E-08	1.237E-07	3200
106.0	6.2	229	6.162E-08	1.294E-07	3200
106.0	9.3	247	7.702E-08	1.617E-07	3200
106.0	12.4	225	6.037E-08	1.268E-07	3200
106.0	15.5	215	5.789E-08	1.216E-07	3200
106.0	18.6	170	4.572E-08	9.600E-08	3200
106.0	21.7	179	4.820E-08	1.012E-07	3200
106.0	24.8	147	3.946E-08	8.287E-08	3200
106.0	31.0	293	7.872E-08	1.653E-07	3200
106.0	37.2	319	8.564E-08	1.799E-07	3200
106.0	43.4	342	1.026E-07	2.156E-07	3200
Q 106.0	49.6	454	1.217E-07	2.557E-07	3200
G 106.0	55.8	504	1.365E-07	2.866E-07	3200
Q 106.0	62.0	46	2.594E-08	5.447E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. ³ X10F+6	E/O SEC/CM. ³	EU/O 1/SG.M	DISTANCE METERS
114.0	0.2	1993	5.346E-07	1.123E-06	3200
114.0	0.4	2170	5.819E-07	1.222E-06	3200
114.0	0.8	2446	6.559E-07	1.377E-06	3200
114.0	1.5	2486	6.666E-07	1.400E-06	3200
Z 114.0	3.1	25	6.708E-09	1.409E-08	3200
114.0	6.2	3322	8.907E-07	1.871E-06	3200
114.0	9.3	3251	8.718E-07	1.831E-06	3200
114.0	12.4	3527	9.456E-07	1.986E-06	3200
114.0	15.5	3043	8.159E-07	1.713E-06	3200
114.0	18.6	2906	7.792E-07	1.636E-06	3200
114.0	21.7	3278	8.790E-07	1.846E-06	3200
114.0	24.8	2113	5.720E-07	1.201E-06	3200
114.0	31.0	2367	6.348E-07	1.333E-06	3200
114.0	37.2	2496	6.692E-07	1.405E-06	3200
114.0	43.4	2417	6.480E-07	1.361E-06	3200
114.0	49.6	2553	6.846E-07	1.438E-06	3200
114.0	55.8	2618	7.020E-07	1.474E-06	3200
114.0	62.0	2229	5.977E-07	1.255E-06	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. ³ X10F+6	E/O SEC/CM. ³	EU/O 1/SG.M	DISTANCE METERS
122.0	0.2	1644	4.408E-07	9.258E-07	3200
122.0	0.4	1636	4.387E-07	9.212E-07	3200
122.0	0.8	1537	4.121E-07	8.655E-07	3200
122.0	1.5	1546	4.147E-07	8.708E-07	3200
122.0	3.1	1352	3.625E-07	7.612E-07	3200
122.0	6.2	1990	5.337E-07	1.121E-06	3200
122.0	9.3	2384	6.393E-07	1.342E-06	3200
122.0	12.4	2028	5.439E-07	1.142E-06	3200
122.0	15.5	2788	7.476E-07	1.570E-06	3200
122.0	18.6	2232	5.985E-07	1.257E-06	3200
122.0	21.7	2770	7.429E-07	1.560E-06	3200
122.0	24.8	2153	5.773E-07	1.212E-06	3200
122.0	31.0	2029	5.441E-07	1.143E-06	3200
122.0	37.2	1472	3.948E-07	8.292E-07	3200
122.0	43.4	1793	4.809E-07	1.010E-06	3200
122.0	49.6	1018	2.731E-07	5.735E-07	3200
122.0	55.8	1711	4.587E-07	9.633E-07	3200
122.0	62.0	2077	5.576E-07	1.170E-06	3200

SECONDARY SERIES EXPERIMENT: A-6
GROUND LEVEL AND TOWER SAMPLING ON THE 3200 M ARC. GROUND LEVEL
SAMPLING ONLY ON THE 800 M ARC. A SIGNIFICANT PORTION OF THE
PLUME NEVER PASSED OVER THE GRID.

TEST A-6 JUNE 8, 1967 0405 TO 0505 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

AZIMUTH EXPOSURE E/O EL/O DISTANCE
DEGREES G-SEC/CU.M SEC/CU.M 1/SQ.M METERS
X10E+6

71.0	3857	7.544E-07	1.059E-06	3200
72.0	4727	9.249E-07	1.298E-06	3200
73.0	3463	7.772E-07	1.088E-06	3200
74.0	3022	5.927E-07	8.297E-07	3200
75.0	1971	3.866E-07	5.412E-07	3200
76.0	2206	8.324E-07	6.056E-07	3200
77.0	1500	3.020E-07	4.228E-07	3200
78.0	1052	2.043E-07	2.888E-07	3200
79.0	1551	3.042E-07	4.259E-07	3200
80.0	1949	3.822E-07	5.351E-07	3200
81.0	1389	2.724E-07	3.814E-07	3200
82.0	2226	4.366E-07	6.112E-07	3200
83.0	2408	4.801E-07	6.722E-07	3200
84.0	2492	4.899E-07	6.859E-07	3200
85.0	2502	4.907E-07	6.870E-07	3200
86.0	2496	4.875E-07	6.825E-07	3200
87.0	1614	3.164E-07	4.433E-07	3200
88.0	2255	4.523E-07	6.193E-07	3200
89.0	2483	4.869E-07	6.817E-07	3200
90.0	1930	3.794E-07	5.311E-07	3200
91.0	1315	2.579E-07	3.610E-07	3200
92.0	1180	2.323E-07	3.252E-07	3200
93.0	807	1.661E-07	2.325E-07	3200
94.0	724	1.421E-07	1.990E-07	3200
95.0	361	7.094E-08	9.934E-08	3200
96.0	609	1.195E-07	1.673E-07	3200
97.0	564	1.107E-07	1.550E-07	3200
98.0	404	5.715E-08	1.220E-07	3200
99.0	158	3.098E-08	4.338E-08	3200
100.0	23	8.597E-09	6.434E-09	3200
101.0	14	2.794E-09	3.918E-09	3200

CROSSWIND INTEGRATED= 5.940E-08 8.268E-08
SEC/SQ.M 1/M

YOUR PATH= SULLY....

TEST A-6 JUNE 8, 1967 0405 TO 0505 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC U= 1.4 M/SEC AT 2M

AZIMUTH HEIGHT EXPOSURE E/O EL/O DISTANCE
DEGREES METERS G-SEC/CU.M SEC/CU.M 1/SQ.M METERS
X10E+6

98.0	0.2	158	3.098E-08	4.338E-08	3200	
98.0	0.4	391	7.676E-08	1.075E-07	3200	
98.0	0.8	434	8.515E-08	1.192E-07	3200	
98.0	1.6	312	6.130E-08	8.582E-08	3200	
98.0	3.1	899	1.745E-07	2.471E-07	3200	
7	48.0	6.2	28	5.521E-09	7.727E-09	3200
98.0	9.3	1110	2.178E-07	3.049E-07	3200	
98.0	12.0	1593	3.124E-07	4.373E-07	3200	
98.0	15.5	1205	2.364E-07	3.310E-07	3200	
7	98.0	18.6	33	6.663E-09	9.328E-09	3200
98.0	21.7	1311	2.572E-07	3.601E-07	3200	
98.0	24.8	1047	2.917E-07	4.083E-07	3200	
98.0	31.0	1817	3.603E-07	5.045E-07	3200	
98.0	37.2	20	3.998E-09	5.597E-09	3200	
98.0	43.4	730	1.432E-07	2.005E-07	3200	
98.0	49.6	441	8.656E-08	1.212E-07	3200	
98.0	55.8	232	4.550E-08	6.370E-08	3200	
98.0	62.0	223	4.379E-08	6.131E-08	3200	

SECONDARY SERIES EXPERIMENT: A-7
 GROUND LEVEL AND TOWER SAMPLING ON THE 3200 M ARC. GROUND LEVEL
 SAMPLING ONLY ON THE 800 M ARC. A SIGNIFICANT PORTION OF THE
 PLUME NEVER PASSED OVER THE GRID.

TEST A-7 JUNE 9, 1967 0345 TO 0400 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 800M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/G SEC/CU.M	FU/D 1/SEC.M	DISTANCE METERS
70.0	382	9.956E-08	2.589E-07	800
72.0	360	9.387E-08	2.441E-07	800
74.0	330	8.605E-08	2.237E-07	800
76.0	300	7.823E-08	2.034E-07	800
78.0	257	6.685E-08	1.738E-07	800
80.0	273	7.112E-08	1.849E-07	800
82.0	311	8.107E-08	2.108E-07	800
84.0	98	2.560E-08	6.657E-08	800
86.0	147	3.800E-08	9.985E-08	800
88.0	276	7.183E-08	1.868E-07	800
90.0	235	6.116E-08	1.590E-07	800
92.0	112	2.916E-08	7.581E-08	800
94.0	166	4.338E-08	1.128E-07	800
96.0	172	4.880E-08	1.165E-07	800
98.0	240	6.258E-08	1.627E-07	800
100.0	218	5.689E-08	1.479E-07	800
102.0	213	5.507E-08	1.442E-07	800
104.0	401	1.045E-07	2.718E-07	800
106.0	585	1.522E-07	3.957E-07	800
108.0	503	1.309E-07	3.402E-07	800
110.0	456	1.188E-07	3.088E-07	800
112.0	724	1.885E-07	4.900E-07	800
114.0	1129	2.937E-07	7.637E-07	800
116.0	735	1.913E-07	4.974E-07	800
118.0	823	2.141E-07	5.566E-07	800
120.0	1003	2.610E-07	6.786E-07	800
122.0	1514	3.980E-07	1.024E-06	800
124.0	1203	3.129E-07	8.136E-07	800
126.0	2321	6.038E-07	1.570E-06	800
128.0	4867	1.266E-06	3.291E-06	800
130.0	17467	4.503E-06	1.181E-05	800
132.0	60269	1.567E-05	4.075E-05	800
134.0	116536	3.031E-05	7.880E-05	800
136.0	177071	4.805E-05	1.197E-04	800
138.0	165285	4.299E-05	1.118E-04	800
140.0	62818	1.634E-05	4.288E-05	800
142.0	31880	8.291E-06	2.156E-05	800
144.0	11924	3.101E-06	8.064E-06	800
146.0	1788	4.651E-07	1.209E-06	800

CROSSWIND INTEGRATED= 4.813E-03 1.257E-02
 SEC/SEC.M 1/M

TEST A-7 JUNE 9, 1967 0345 TO 0440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
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71.0	23	6.040E-09	1.576E-08	3200
72.0	20	5.303E-09	1.379E-08	3200
73.0	20	5.303E-09	1.379E-08	3200
74.0	26	6.818E-09	1.773E-08	3200
75.0	20	5.303E-09	1.379E-08	3200
76.0	26	6.818E-09	1.773E-08	3200
77.0	25	6.565E-09	1.707E-08	3200
78.0	29	7.575E-09	1.970E-08	3200
79.0	29	7.575E-09	1.970E-08	3200
80.0	33	8.838E-09	2.298E-08	3200
81.0	30	7.828E-09	2.035E-08	3200
82.0	27	7.070E-09	1.838E-08	3200
83.0	30	7.828E-09	2.035E-08	3200
84.0	33	8.585E-09	2.232E-08	3200
85.0	32	8.333E-09	2.166E-08	3200
86.0	35	9.343E-09	2.429E-08	3200
87.0	00	2.096E-08	5.449E-08	3200
88.0	58	1.515E-08	3.939E-08	3200
89.0	52	1.360E-08	3.545E-08	3200
90.0	61	1.591E-08	4.136E-08	3200
91.0	52	1.360E-08	3.545E-08	3200
92.0	68	2.298E-08	5.974E-08	3200
93.0	78	2.045E-08	5.318E-08	3200
94.0	136	3.560E-08	9.257E-08	3200
95.0	121	3.156E-08	8.206E-08	3200
96.0	102	2.677E-08	6.959E-08	3200
97.0	153	3.940E-08	1.037E-07	3200
98.0	51	1.338E-08	3.479E-08	3200
99.0	92	2.399E-08	6.237E-08	3200
100.0	85	2.222E-08	5.777E-08	3200
101.0	130	3.384E-08	8.797E-08	3200
102.0	117	3.055E-08	7.944E-08	3200
103.0	85	2.222E-08	5.777E-08	3200
104.0	73	1.919E-08	4.989E-08	3200
105.0	182	4.747E-08	1.234E-07	3200
106.0	194	5.050E-08	1.313E-07	3200
107.0	213	5.555E-08	1.444E-07	3200
108.0	247	6.439E-08	1.674E-07	3200
109.0	351	9.141E-08	2.377E-07	3200
110.0	194	5.050E-08	1.313E-07	3200
111.0	343	8.939E-08	2.324E-07	3200
112.0	431	1.121E-07	2.915E-07	3200
113.0	971	2.528E-07	6.572E-07	3200
114.0	580	1.510E-07	3.926E-07	3200
115.0	545	1.419E-07	3.690E-07	3200
116.0	799	2.041E-07	5.010E-07	3200
117.0	836	2.177E-07	5.659E-07	3200
118.0	1075	2.708E-07	7.274E-07	3200
119.0	1174	3.060E-07	7.957E-07	3200
120.0	1049	2.783E-07	7.235E-07	3200
121.0	842	2.192E-07	5.498E-07	3200
122.0	916	2.384E-07	6.197E-07	3200
123.0	1036	2.697E-07	7.011E-07	3200
124.0	1262	3.283E-07	8.535E-07	3200
125.0	1159	3.015E-07	7.839E-07	3200
126.0	866	2.252E-07	5.856E-07	3200
127.0	931	2.422E-07	6.296E-07	3200
128.0	1182	3.075E-07	7.996E-07	3200
129.0	1227	3.192E-07	8.298E-07	3200
130.0	933	2.427E-07	6.309E-07	3200
131.0	999	2.601E-07	6.762E-07	3200
132.0	984	2.560E-07	6.657E-07	3200
133.0	901	2.346E-07	6.099E-07	3200
134.0	1681	4.373E-07	1.137E-06	3200
135.0	4580	1.191E-06	3.097E-06	3200
136.0	8259	2.148E-06	5.585E-06	3200
137.0	6265	1.629E-06	4.236E-06	3200
138.0	3699	9.623E-07	2.502E-06	3200
139.0	944	2.457E-07	6.388E-07	3200
140.0	106	2.778E-08	7.222E-08	3200

CROSSKIND INTEGRATED= 7.272E-04
SEC/SQ.M 1.891E-03
1/M

TOWER DATA FOLLOW....

TEST A-7 JUNE 9, 1967 0345 TO 0440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC U= 2.6 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
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98.0	0.2	48	1.273E-08	3.309E-08	3200
98.0	0.4	103	2.704E-08	7.031E-08	3200
98.0	0.8	109	2.837E-08	7.376E-08	3200
98.0	1.5	107	2.807E-08	7.299E-08	3200
98.0	3.1	155	4.006E-08	1.052E-07	3200
98.0	6.2	180	4.789E-08	1.245E-07	3200
98.0	9.3	176	4.603E-08	1.197E-07	3200
98.0	12.4	183	3.736E-08	9.713E-08	3200
98.0	15.5	126	3.302E-08	8.586E-08	3200
98.0	18.6	138	3.612E-08	9.391E-08	3200
98.0	21.7	158	4.128E-08	1.073E-07	3200
98.0	24.8	114	3.077E-08	8.001E-08	3200
98.0	31.0	134	3.486E-08	9.065E-08	3200
98.0	37.2	77	2.028E-08	5.272E-08	3200
98.0	43.4	94	2.455E-08	6.382E-08	3200
98.0	49.6	68	1.792E-08	4.658E-08	3200
98.0	55.8	54	1.425E-08	3.705E-08	3200
98.0	62.0	44	1.683E-08	4.376E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
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2	106.0	0.2	69	1.803E-08	4.687E-08	3200
4	106.0	0.4	79	2.062E-08	5.377E-08	3200
5	106.0	0.8	127	3.310E-08	8.617E-08	3200
9	106.0	1.5	240	6.089E-08	1.583E-07	3200
8	106.0	3.1	329	8.566E-08	2.227E-07	3200
106.0	6.2	358	9.330E-08	2.426E-07	3200	
106.0	9.3	321	8.359E-08	2.173E-07	3200	
106.0	12.4	277	7.224E-08	1.878E-07	3200	
106.0	15.5	300	7.823E-08	2.034E-07	3200	
106.0	18.6	275	7.162E-08	1.862E-07	3200	
106.0	21.7	281	7.327E-08	1.905E-07	3200	
106.0	24.8	322	8.378E-08	2.178E-07	3200	
106.0	31.0	309	8.058E-08	2.095E-07	3200	
106.0	37.2	304	7.915E-08	2.058E-07	3200	
106.0	43.4	326	8.502E-08	2.211E-07	3200	
106.0	49.6	183	4.768E-08	1.239E-07	3200	
106.0	55.8	207	6.433E-08	1.673E-07	3200	
106.0	62.0	13	3.529E-09	9.175E-09	200	

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/G 1/SQ.M	DISTANCE METERS
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114.0	0.2	897	2.333E-07	6.066E-07	3200
114.0	0.4	700	2.055E-07	5.342E-07	3200
114.0	0.8	653	1.699E-07	4.419E-07	3200
114.0	1.5	593	1.540E-07	4.014E-07	3200
114.0	3.1	721	1.876E-07	4.878E-07	3200
114.0	6.2	922	2.398E-07	6.236E-07	3200
114.0	9.3	977	2.543E-07	6.612E-07	3200
114.0	12.4	925	2.407E-07	6.257E-07	3200
114.0	15.5	892	2.322E-07	6.037E-07	3200
114.0	18.6	1003	2.710E-07	7.057E-07	3200
114.0	21.7	787	2.048E-07	5.324E-07	3200
114.0	24.8	759	1.976E-07	5.138E-07	3200
114.0	31.0	713	1.907E-07	4.958E-07	3200
114.0	37.2	802	2.086E-07	5.425E-07	3200
114.0	43.4	688	1.789E-07	4.652E-07	3200
114.0	49.6	559	1.455E-07	3.783E-07	3200
114.0	55.8	509	1.326E-07	3.448E-07	3200
114.0	62.0	408	1.166E-07	3.031E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² x10E+6	E/D SEC/CM ²	FU/D 1/SG, M	DISTANCE METERS
122.0	0.2	1165	3.030E-07	7.879E-07	3200
122.0	0.4	1176	3.060E-07	7.955E-07	3200
122.0	0.8	1196	3.113E-07	8.093E-07	3200
* 122.0	1.5	897	2.334E-07	6.070E-07	3200
* 122.0	3.1	938	2.442E-07	6.349E-07	3200
* 122.0	6.2	1232	3.205E-07	8.334E-07	3200
122.0	9.3	1112	2.894E-07	7.524E-07	3200
122.0	12.4	1322	3.441E-07	8.946E-07	3200
122.0	15.5	1234	3.212E-07	8.350E-07	3200
122.0	18.6	1128	2.931E-07	7.620E-07	3200
122.0	21.7	1198	3.117E-07	8.103E-07	3200
122.0	24.8	1006	2.618E-07	6.808E-07	3200
122.0	31.0	1071	2.786E-07	7.242E-07	3200
122.0	37.2	943	2.453E-07	6.378E-07	3200
122.0	43.4	679	1.766E-07	4.592E-07	3200
122.0	49.6	620	1.614E-07	4.196E-07	3200
122.0	55.8	667	1.736E-07	4.513E-07	3200
122.0	62.0	581	1.513E-07	3.935E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² x10E+6	E/D SEC/CM ²	FU/D 1/SG, M	DISTANCE METERS
130.0	0.2	1394	3.627E-07	9.430E-07	3200
130.0	0.4	1420	3.693E-07	9.602E-07	3200
130.0	0.8	1492	3.881E-07	1.009E-06	3200
130.0	1.5	1157	3.011E-07	7.830E-07	3200
130.0	3.1	1077	2.803E-07	7.288E-07	3200
130.0	6.2	1074	2.795E-07	7.266E-07	3200
130.0	9.3	1064	2.768E-07	7.197E-07	3200
130.0	12.4	1272	3.311E-07	8.608E-07	3200
130.0	15.5	1011	2.632E-07	6.842E-07	3200
130.0	18.6	1545	4.019E-07	1.045E-06	3200
130.0	21.7	1745	4.581E-07	1.181E-06	3200
130.0	24.8	1573	4.091E-07	1.064E-06	3200
130.0	31.0	1504	3.913E-07	1.017E-06	3200
130.0	37.2	1436	3.735E-07	9.712E-07	3200
130.0	43.4	1285	3.342E-07	8.690E-07	3200
130.0	49.6	921	2.397E-07	6.232E-07	3200
130.0	55.8	994	2.585E-07	6.722E-07	3200
130.0	62.0	1088	2.831E-07	7.361E-07	3200

SECONDARY SERIES EXPERIMENT: A-8
GROUND LEVEL AND TOWER SAMPLING ON THE 3200 M ARC. GROUND LEVEL
SAMPLING ONLY ON THE 800 M ARC.

TEST A-8 JUNE 14, 1967 0350 TO 0455 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 1.9 M/SFC AT 2M

AZIMUTH DEGREES	EXPOSURE GM=SEC/CU.M X10E+6	F/Q SEC/CU.M	FU/Q 1/SQ.M	DISTANCE METERS
88.0	56	5.435E-08	1.033E-07	800
90.0	9130	8.788E-06	1.670E-05	800
92.0	90967	8.755E-05	1.664E-04	800
94.0	153809	1.480E-04	2.813E-04	800
96.0	101539	9.773E-05	1.857E-04	800
98.0	87130	8.386E-05	1.593E-04	800
100.0	107650	1.036E-04	1.969E-04	800
102.0	108066	1.040E-04	1.976E-04	800
104.0	115295	1.110E-04	2.108E-04	800
106.0	114287	1.100E-04	2.090E-04	800
108.0	142398	1.371E-04	2.604E-04	800
110.0	177546	1.709E-04	3.247E-04	800
112.0	150040	1.483E-04	2.817E-04	800
114.0	76109	7.325E-05	1.392E-04	800
116.0	53199	5.120E-05	9.729E-05	800
118.0	19827	1.908E-05	3.626E-05	800
120.0	1343	1.293E-06	2.457E-06	800
122.0	38	3.719E-08	7.066E-08	800

CROSSWIND INTEGRATED= 0.045E-02
SEC/SQ.M 1/M

TEST A-8 JUNE 14, 1967 0350 TO 0455 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 1.9 M/SFC AT 2M

AZIMUTH DEGREES	EXPOSURE GM=SEC/CU.M X10E+6	F/Q SEC/CU.M	FU/Q 1/SQ.M	DISTANCE METERS
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86.0	79	7.642E-08	1.456E-07	3200
87.0	1032	9.933E-07	1.887E-06	3200
88.0	2011	1.936E-06	3.679E-06	3200
89.0	2766	2.662E-06	5.058E-06	3200
90.0	3470	3.301E-06	6.347E-06	3200
91.0	4315	4.150E-06	7.892E-06	3200
92.0	3750	3.610E-06	6.858E-06	3200
93.0	4277	4.117E-06	7.822E-06	3200
94.0	3691	3.553E-06	6.750E-06	3200
95.0	3666	3.528E-06	6.704E-06	3200
96.0	2906	2.798E-06	5.316E-06	3200
97.0	3606	3.510E-06	6.668E-06	3200
98.0	2367	2.279E-06	4.330E-06	3200
99.0	2048	1.972E-06	3.746E-06	3200
100.0	1899	1.828E-06	3.473E-06	3200
101.0	1987	1.913E-06	3.634E-06	3200
102.0	2345	2.258E-06	4.289E-06	3200
103.0	2666	2.567E-06	4.877E-06	3200
104.0	3844	3.700E-06	7.031E-06	3200
105.0	6398	6.158E-06	1.170E-05	3200
106.0	6905	6.607E-06	1.263E-05	3200
107.0	12944	1.286E-05	2.367E-05	3200
108.0	12342	1.188E-05	2.257E-05	3200
109.0	8831	8.500E-06	1.615E-05	3200
110.0	10739	1.034E-05	1.964E-05	3200
111.0	11687	1.125E-05	2.137E-05	3200
112.0	7995	7.695E-06	1.462E-05	3200
113.0	10138	9.758E-06	1.854E-05	3200
114.0	7882	7.548E-06	1.434E-05	3200
115.0	3851	3.787E-06	7.043E-06	3200
116.0	1324	1.275E-06	2.422E-06	3200
117.0	362	3.485E-07	6.622E-07	3200
118.0	12	1.215E-08	2.308E-08	3200
120.0	14	1.402E-08	2.663E-08	3200
122.0	18	1.775E-08	3.373E-08	3200

CROSSWIND INTEGRATED= 8.295E-03
SEC/SQ.M 1/M

TONER DATA FOLLOW....

YFST A-B JUNE 14, 1967 0350 TO 0455 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3209M ARC U= 1.9 M/SFC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
98.0	0.2	1217	1.171E-06	2.226E-06	3200
98.0	0.4	2511	2.418E-06	4.593E-06	3200
98.0	0.8	2661	2.562E-06	4.867E-06	3200
98.0	1.5	3008	2.896E-06	5.502E-06	3200
98.0	3.1	3371	3.245E-06	6.166E-06	3200
98.0	6.2	4019	3.868E-06	7.350E-06	3200
98.0	9.3	5009	4.822E-06	9.162E-06	3200
98.0	12.4	5966	5.743E-06	1.091E-05	3200
98.0	15.5	5187	4.993E-06	9.486E-06	3200
98.0	18.6	3555	3.422E-06	6.502E-06	3200
98.0	21.7	2627	2.529E-06	4.804E-06	3200
98.0	24.8	1012	9.740E-07	1.851E-06	3200
98.0	31.0	141	1.359E-07	2.542E-07	3200
98.0	37.2	24	2.339E-08	4.444E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
106.0	0.2	2262	2.177E-06	4.137E-06	3200
106.0	0.4	2411	2.340E-06	4.446E-06	3200
106.0	0.8	5167	4.973E-06	9.450E-06	3200
106.0	1.5	3816	3.674E-06	6.980E-06	3200
106.0	3.1	11030	1.062E-05	2.017E-05	3200
106.0	6.2	12245	1.179E-05	2.239E-05	3200
106.0	9.3	12184	1.173E-05	2.228E-05	3200
106.0	12.4	12472	1.200E-05	2.281E-05	3200
106.0	15.5	11396	1.097E-05	2.084E-05	3200
106.0	18.6	3687	3.549E-06	6.744E-06	3200
106.0	21.7	8236	7.928E-06	1.506E-05	3200
106.0	24.8	5019	4.831E-06	9.179E-06	3200
106.0	31.0	2872	2.765E-06	5.253E-06	3200
106.0	37.2	350	3.369E-07	6.401E-07	3200
106.0	43.4	18	1.770E-08	3.363E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
114.0	0.2	6975	6.714E-06	1.276E-05	3200
114.0	0.4	6366	6.127E-06	1.164E-05	3200
114.0	0.8	7173	6.904E-06	1.312E-05	3200
114.0	1.5	6901	6.642E-06	1.262E-05	3200
114.0	3.1	7747	7.476E-06	1.420E-05	3200
114.0	6.2	7869	7.574E-06	1.439E-05	3200
114.0	9.3	9395	9.042E-06	1.718E-05	3200
114.0	12.4	8890	8.557E-06	1.626E-05	3200
114.0	15.5	7667	7.380E-06	1.402E-05	3200
114.0	18.6	8511	8.192E-06	1.557E-05	3200
114.0	21.7	9751	9.386E-06	1.783E-05	3200
114.0	24.8	6396	6.157E-06	1.170E-05	3200
114.0	31.0	3127	3.010E-06	5.719E-06	3200
114.0	37.2	1090	1.049E-06	1.994E-06	3200
114.0	43.4	279	2.686E-07	5.104E-07	3200
114.0	49.6	122	1.182E-07	2.246E-07	3200
114.0	55.8	78	7.598E-08	1.444E-07	3200
114.0	62.0	93	8.962E-08	1.703E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
122.0	3.1	40	3.923E-08	7.454E-08	3200
122.0	9.3	87	4.577E-08	8.696E-08	3200
122.0	12.4	22	2.207E-08	4.193E-08	3200
122.0	15.5	38	3.678E-08	6.980E-08	3200
122.0	18.6	33	3.197E-08	6.056E-08	3200
122.0	21.7	40	3.923E-08	7.454E-08	3200
122.0	24.8	21	2.086E-08	3.963E-08	3200
122.0	31.0	13	1.264E-08	2.402E-08	3200
122.0	37.2	35	3.413E-08	6.485E-08	3200
122.0	43.4	19	1.833E-08	3.483E-08	3200
122.0	49.6	29	2.857E-08	5.829E-08	3200
122.0	55.8	41	3.961E-08	7.527E-08	3200
122.0	62.0	58	5.650E-08	1.073E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
130.0	6.2	11	1.062E-08	2.019E-08	3200
130.0	9.3	30	2.942E-08	5.590E-08	3200
130.0	12.4	91	4.827E-08	1.677E-07	3200
130.0	15.5	29	2.860E-08	5.435E-08	3200
130.0	18.6	33	3.265E-08	6.211E-08	3200
130.0	21.7	25	2.452E-08	4.658E-08	3200
130.0	24.8	39	3.793E-08	7.206E-08	3200
130.0	31.0	25	2.465E-08	4.684E-08	3200
130.0	49.6	7	7.144E-09	1.357E-08	3200
130.0	55.8	13	1.299E-08	2.468E-08	3200
130.0	62.0	32	3.117E-08	5.923E-08	3200

SECONDARY SERIES EXPERIMENT: A-9
GROUND LEVEL AND TOWER SAMPLING ON THE 3200 M ARC. GROUND LEVEL
SAMPLING ONLY ON THE 800 M ARC. A SIGNIFICANT PORTION OF THE
PLUME NEVER PASSED OVER THE GRID.

TEST A-9 JUNE 15, 1967 0352 TO 0446 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/P 1/SQ.M	DISTANCE METERS
70.0	103169	3.210E-05	3.852E-05	800
72.0	69193	2.153E-05	2.583E-05	800
74.0	58840	1.831E-05	2.197E-05	800
76.0	72639	2.260E-05	2.712E-05	800
78.0	71356	2.220E-05	2.664E-05	800
80.0	62074	1.931E-05	2.318E-05	800
82.0	49515	1.541E-05	1.899E-05	800
84.0	49117	1.529E-05	1.834E-05	800
86.0	42399	1.319E-05	1.583E-05	800
88.0	33198	1.033E-05	1.240E-05	800
90.0	28699	8.929E-06	1.072E-05	800
92.0	27066	8.428E-06	1.011E-05	800
94.0	34149	1.063E-05	1.275E-05	800
96.0	43240	1.346E-05	1.615E-05	800
98.0	53029	1.650E-05	1.980E-05	800
100.0	59492	1.851E-05	2.221E-05	800
102.0	72723	2.263E-05	2.715E-05	800
104.0	70467	2.193E-05	2.631E-05	800
106.0	71173	2.214E-05	2.657E-05	800
108.0	60573	1.885E-05	2.262E-05	800
110.0	59333	1.815E-05	2.178E-05	800
112.0	58706	1.827E-05	2.192E-05	800
114.0	65943	2.052E-05	2.462E-05	800
116.0	78437	2.441E-05	2.929E-05	800
118.0	113631	3.536E-05	4.243E-05	800
120.0	95083	2.958E-05	3.550E-05	800
122.0	60841	1.893E-05	2.272E-05	800
124.0	36824	1.146E-05	1.375E-05	800
126.0	338	1.054E-07	1.265E-07	800

CROSSWIND INTEGRATED= 1.477E-02 1.773E-02
SEC/SQ.M 1/M

TEST A-9 JUNE 15, 1967 0352 TO 0446 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM ² X10E+6	E/Q SEC/CM ²	EU/Q 1/SQ.M	DISTANCE METERS
71.0	2333	7.260E-07	8.712E-07	3200
72.0	2255	7.019E-07	8.423E-07	3200
73.0	2723	8.475E-07	1.017E-06	3200
74.0	2550	7.936E-07	9.523E-07	3200
75.0	2204	6.861E-07	8.233E-07	3200
76.0	2905	9.040E-07	1.085E-06	3200
77.0	2674	8.323E-07	9.987E-07	3200
78.0	2304	7.295E-07	8.754E-07	3200
79.0	2067	6.432E-07	7.719E-07	3200
80.0	3561	1.108E-06	1.330E-06	3200
81.0	3821	1.189E-06	1.427E-06	3200
82.0	4023	1.252E-06	1.502E-06	3200
83.0	3737	1.163E-06	1.395E-06	3200
84.0	4289	1.335E-06	1.602E-06	3200
85.0	5095	1.585E-06	1.902E-06	3200
86.0	6138	1.910E-06	2.292E-06	3200
87.0	5610	1.746E-06	2.095E-06	3200
88.0	5943	1.842E-06	2.234E-06	3200
89.0	6107	1.900E-06	2.240E-06	3200
90.0	6076	1.891E-06	2.269E-06	3200
91.0	6838	2.128E-06	2.553E-06	3200
92.0	6802	2.117E-06	2.540E-06	3200
93.0	5502	1.712E-06	2.055E-06	3200
94.0	7165	2.229E-06	2.675E-06	3200
95.0	7692	1.460E-06	1.752E-06	3200
96.0	6073	1.840E-06	2.248E-06	3200
97.0	6696	2.044E-06	2.500E-06	3200
98.0	5235	1.629E-06	1.955E-06	3200
99.0	4563	1.420E-06	1.704E-06	3200
100.0	6803	2.117E-06	2.540E-06	3200
101.0	9582	2.941E-06	3.578E-06	3200
102.0	12304	3.828E-06	4.594E-06	3200
103.0	11258	3.503E-06	4.204E-06	3200
104.0	6793	2.114E-06	2.536E-06	3200
105.0	7323	2.279E-06	2.734E-06	3200
106.0	7768	2.417E-06	2.901E-06	3200
107.0	7712	2.400E-06	2.880E-06	3200
108.0	5743	1.787E-06	2.144E-06	3200
109.0	5120	1.593E-06	1.912E-06	3200
110.0	4553	1.417E-06	1.700E-06	3200
111.0	4627	1.440E-06	1.728E-06	3200
112.0	4894	1.523E-06	1.827E-06	3200
113.0	3994	1.243E-06	1.491E-06	3200
114.0	3247	1.011E-06	1.213E-06	3200
115.0	2259	7.029E-07	8.434E-07	3200
116.0	3226	1.004E-06	1.205E-06	3200
117.0	5424	1.648E-06	2.025E-06	3200
118.0	4886	1.520E-06	1.824E-06	3200
119.0	2074	6.447E-07	7.761E-07	3200
120.0	2110	6.544E-07	7.779E-07	3200
121.0	2343	7.416E-07	8.899E-07	3200
122.0	1191	3.708E-07	4.449E-07	3200
123.0	399	1.243E-07	1.492E-07	3200
124.0	68	2.125E-08	2.550E-08	3200

CROSSWIND INTEGRATED= 4.446E-03 5.335E-03
SEC/SQ.M 1/M

TOWER DATA FOLLOW...

TEST A-9 JUNE 15, 1967 0352 TO 0446 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2"
3200M ARC U= 1.2 M/SEC AT 2"

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
98.0	0.2	3914	1.224E-06	1.469E-06	3200
98.0	0.4	5193	1.616E-06	1.939E-06	3200
98.0	0.8	6057	1.885E-06	2.262E-06	3200
98.0	1.5	7852	2.443E-06	2.932E-06	3200
98.0	3.1	9572	2.977E-06	3.574E-06	3200
98.0	6.2	8091	2.514E-06	3.021E-06	3200
98.0	9.3	6209	1.932E-06	2.315E-06	3200
98.0	12.4	4076	1.268E-06	1.522E-06	3200
98.0	15.5	2705	8.543E-07	1.025E-06	3200
98.0	18.6	1875	5.836E-07	7.003E-07	3200
98.0	21.7	1473	4.586E-07	5.503E-07	3200
98.0	24.8	797	2.483E-07	2.979E-07	3200
98.0	31.0	216	7.353E-08	8.823E-08	3200
98.0	37.2	83	1.961E-08	2.353E-08	3200
98.0	43.4	18	5.767E-09	6.920E-09	3200
98.0	49.6	28	8.773E-09	1.053E-08	3200
98.0	55.8	11	3.557E-09	4.268E-09	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
106.0	0.2	6505	2.024E-06	2.429E-06	3200
106.0	0.4	7062	2.197E-06	2.637E-06	3200
106.0	0.8	8111	2.524E-06	3.029E-06	3200
106.0	1.5	7102	2.210E-06	2.652E-06	3200
106.0	3.1	6853	2.132E-06	2.559E-06	3200
106.0	6.2	4225	1.315E-06	1.577E-06	3200
106.0	9.3	2614	8.135E-07	9.762E-07	3200
106.0	12.4	1609	5.008E-07	6.010E-07	3200
106.0	15.5	8870	2.760E-06	3.312E-06	3200
106.0	18.6	7612	2.369E-06	2.842E-06	3200
106.0	21.7	4833	1.504E-06	1.805E-06	3200
106.0	24.8	3058	9.515E-07	1.142E-06	3200
106.0	31.0	1691	5.262E-07	6.315E-07	3200
106.0	37.2	774	2.411E-07	2.893E-07	3200
106.0	43.4	363	1.130E-07	1.356E-07	3200
106.0	49.6	80	2.490E-08	2.988E-08	3200
106.0	55.8	27	8.536E-09	1.024E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
114.0	0.2	4694	1.461E-06	1.753E-06	3200
114.0	0.4	4874	1.517E-06	1.820E-06	3200
114.0	0.8	5444	1.694E-06	2.033E-06	3200
114.0	1.5	5851	1.821E-06	2.185E-06	3200
114.0	3.1	5652	1.759E-06	2.110E-06	3200
114.0	6.2	4934	1.535E-06	1.843E-06	3200
114.0	9.3	4167	1.297E-06	1.556E-06	3200
114.0	12.4	3564	1.109E-06	1.331E-06	3200
114.0	15.5	3086	9.603E-07	1.152E-06	3200
114.0	18.6	3152	9.808E-07	1.177E-06	3200
114.0	21.7	2593	8.068E-07	9.682E-07	3200
114.0	24.8	1548	4.974E-07	5.966E-07	3200
114.0	31.0	962	2.996E-07	3.595E-07	3200
114.0	37.2	768	2.390E-07	2.868E-07	3200
114.0	43.4	716	2.229E-07	2.675E-07	3200
114.0	49.6	428	1.333E-07	1.599E-07	3200
114.0	55.8	195	6.094E-08	7.313E-08	3200
114.0	62.0	170	5.311E-08	6.374E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM ² X10E+6	E/O SEC/CM ²	FU/O 1/SQ.M	DISTANCE METERS
122.0	0.2	1241	3.863E-07	4.638E-07	3200
122.0	0.4	1629	5.069E-07	6.082E-07	3200
122.0	0.8	1642	5.110E-07	6.132E-07	3200
N 122.0	1.5	1620	5.042E-07	6.050E-07	3200
N 122.0	3.1	2358	7.337E-07	8.805E-07	3200
N 122.0	6.2	6726	2.093E-06	2.511E-06	3200
122.0	9.3	9764	3.038E-06	3.646E-06	3200
122.0	12.4	7466	2.323E-06	2.788E-06	3200
122.0	15.5	5363	1.669E-06	2.002E-06	3200
122.0	18.6	3865	1.203E-06	1.443E-06	3200
122.0	21.7	2952	9.186E-07	1.102E-06	3200
122.0	24.8	2940	9.149E-07	1.098E-06	3200
122.0	31.0	2150	6.704E-07	8.045E-07	3200
122.0	37.2	1365	4.247E-07	5.097E-07	3200
122.0	43.4	1193	3.714E-07	4.457E-07	3200
122.0	49.6	639	1.989E-07	2.387E-07	3200
122.0	55.8	502	1.565E-07	1.878E-07	3200
122.0	62.0	272	8.489E-08	1.019E-07	3200

APPENDIX B

DIFFUSION SUMMARIES

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS. 2 OF THE 4 ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 11 OF 20 TOWERS ARE "HIT" BY THE TRACER; 4 OF 11 TOWERS VERTICAL DISTRIBUTIONS ARE TRUNCATED AT THE TOP.

TEST F130 FEBRUARY 18, 1960 0927 TO 0947 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 2.5M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/30,M	SEC/30,M	1/M
200	137.0X	7.34X	-0.352X	3.902X	142.0	1.99E-04	4.98E-04	1.11E-02X	2.78E-02X
					140.0	1.71E-04	4.27E-04		
					136.0	1.62E-04	4.05E-04		
800	139.8	5.37	-0.156	2.331	144.0	8.49E-06	2.12E-05	1.34E-03	3.35E-03
					142.0	6.53E-06	1.63E-05		
					138.0	5.50E-06	1.38E-05		
1600	135.4X	2.07X	-0.390X	2.127X	138.0X	8.68E-07X	2.17E-06X	1.28E-04X	3.19E-04X
					137.0X	8.51E-07X	2.13E-06X		
					134.0X	8.08E-07X	2.02E-06X		
3200	142.8	4.48	0.912	2.888	141.0	2.68E-07	6.70E-07	9.27E-05	2.32E-04
					140.0	2.51E-07	6.27E-07		
					143.0	1.86E-07	4.66E-07		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600, AND 3200 M ARCS. 3 OF THE 4 ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 14 OF THE 20 TOWERS ARE "HIT" BY THE TRACER. MANY OF THE VERTICAL DISTRIBUTIONS ARE TRUNCATED AT THE TOP.

TEST F131 MARCH 11, 1960 0955 TO 1025 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 3.4M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/30,M	SEC/30,M	1/M
200	123.0	5.95	-0.347	5.637	126.0	1.74E-04	5.91E-04	9.33E-03	3.17E-02
					120.0	1.70E-04	5.78E-04		
					124.0	1.60E-04	5.45E-04		
800	124.1	5.66	0.896	3.645	122.0	8.27E-06	2.81E-05	1.43E-03	4.87E-03
					124.0	8.20E-06	2.79E-05		
					120.0	7.63E-06	2.59E-05		
1600	124.0X	5.04X	0.748X	3.142X	122.0	2.41E-06	8.21E-06	5.88E-04X	2.00E-03X
					124.0	2.34E-06	7.97E-06		
					123.0	1.77E-06	6.00E-06		
3200	125.6	6.33	-0.949	9.587	126.0	7.72E-07	2.62E-06	4.86E-04	1.65E-03
					125.0	6.99E-07	2.38E-06		
					127.0	6.31E-07	2.15E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600, AND 3200 M ANGCS.
 ALL THE ANGCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.
 IN ALL CASES THE VERTICAL DISTRIBUTIONS ARE TRUNCATED AT THE TOP OF THE
 TOWERS. A TRACE OF RAIN FELL DURING THE COLLECTION OF THE FILTERS.

TEST FT40 AUGUST 31, 1960 1405 TO 1555 PST										
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M										
SAMPLER HT 1.5M WS 3.2M/SEC AT 2M										
DISTANCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND		
FROM	MEAN	STAND	COEFFICIENT					INTEGRATED VALUES		
SOURCE		DEV	SKEW	KURT	AZIMUTH	E/G	EU/Q	CI(E/Q)	CI(EU/Q)	
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
METERS	DEG	DEG			DEG	SEC/CM	1/8Q,M	SEC/8Q,M	1/M	
200	120.2	7.25	-0.728	4.119	126.0	3.79E-04	1.21E-03	1.38E-02	4.43E-02	
					120.0	2.53E-04	8.10E-04			
					124.0	2.03E-04	6.51E-04			
800	119.5	5.84	-0.396	3.391	118.0	1.19E-05	3.82E-05	2.21E-03	7.08E-03	
					124.0	1.08E-05	3.46E-05			
					116.0	9.41E-06	3.01E-05			
1600	119.2	5.66	-0.374	3.288	119.0	2.44E-06	7.80E-06	8.52E-04	2.73E-03	
					121.0	2.37E-06	7.59E-06			
					122.0	2.33E-06	7.44E-06			
3200	117.7	5.63	-0.906	3.941	121.0	4.68E-07	1.50E-06	2.83E-04	9.07E-04	
					119.0	4.66E-07	1.49E-06			
					117.0	4.43E-07	1.42E-06			

7 INDICATES UNRELIABILITIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING ON THE 200, 800, 1600, AND 3200 M ARCS.
ALL THE ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION,
14 OF THE 20 TOWERS ARE "HIT" BY THE TRACER; ALL BUT ONE OF THE VERTICAL
DISTRIBUTIONS ARE TRUNCATED AT THE TOP.

TEST FT41 SEPTEMBER 1, 1960 1657 TO 1727 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 4.3M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/80,M	SEC/80,M	1/M
200	129.8	4.43	-0.258	3.672	128.0	2.34E-04	1.00E-03	8.66E-03	3.72E-02
					130.0	2.04E-04	8.86E-04		
					132.0	1.98E-04	8.52E-04		
800	128.8?	3.12?	-0.439?	6.833?	128.0?	1.85E-05?	7.94E-05?	1.66E-03?	7.14E-03?
					130.0?	1.54E-05?	6.60E-05?		
					126.0?	8.17E-06?	3.52E-05?		
1600	130.0	2.78	-0.136	2.930	131.0	6.47E-06	2.78E-05	1.25E-03	5.36E-03
					130.0	5.76E-06	2.48E-05		
					132.0	5.68E-06	2.44E-05		
3200	130.0?	2.38?	0.237?	2.935?	130.0?	1.73E-06?	7.43E-06?	4.18E-04?	1.80E-03?
					129.0?	1.13E-06?	4.87E-06?		
					127.0?	8.23E-07?	3.54E-06?		

? INDICATES UNCERTAINTIES IN DATA.

x INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT THE 200, 800, 1600, AND 3200 M ARCS.
ALL THE ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTIONS.
ALL 20 TOWERS ARE "HIT" BY THE TRACER AND EMBRACE THE VERTICAL EXTENT
OF THE TRACER DISTRIBUTIONS.

TEST FT42 SEPTEMBER 2, 1960 0344 TO 0444 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 3.2M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/80,M	SEC/80,M	1/M
200	109.3	9.59	0.543	2.157	102.0	4.77E-04	1.53E-03	2.65E-02	8.49E-02
					104.0	4.23E-04	1.35E-03		
					100.0	3.83E-04	1.23E-03		
800	108.1	9.76	0.679	2.329	104.0	4.15E-05	1.33E-04	1.00E-02	3.21E-02
					102.0	3.99E-05	1.28E-04		
					100.0	3.89E-05	1.25E-04		
1600	109.0	10.13	0.669	2.314	103.0	1.34E-05	4.29E-05	5.67E-03	1.81E-02
					102.0	1.23E-05	3.94E-05		
					100.0	1.08E-05	3.47E-05		
3200	108.5	11.08	0.596	2.443	104.0	3.84E-06	1.23E-05	2.68E-03	8.58E-03
					103.0	2.82E-06	9.04E-06		
					102.0	2.59E-06	8.30E-06		

? INDICATES UNCERTAINTIES IN DATA.

x INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT THE 200, 800, 1600, AND 3200 M ARCS.
ONLY THE 1600 M ARC DOES NOT ENBRACE THE FULL CROSSWIND EXTENT OF THE
TRACER DISTRIBUTION. 14 OF THE 20 TOWERS ARE "HIT" BY THE TRACER; ALL
16 TOWERS ENBRACE THE VERTICAL EXTENT OF THE TRACER DISTRIBUTION.

TEST F143 SEPTEMBER 13, 1960 0922 TO 0952 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 2.3M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	F/O	EU/O	CI(E/O)	CI(EU/O)
METERS	DEG	DEG			DEG	SEC/CM	1/80,M	SEC/80,M	1/M
200	130.9	5.74	-0.952	3.793	134.0	6.56E-04	1.51E-03	2.63E-02	6.05E-02
					132.0	6.28E-04	1.44E-03		
					136.0	5.64E-04	1.30E-03		
800	127.07	4.607	0.5917	4.6737	130.07	5.53E-057	1.27E-047	4.60E-037	1.06E-027
					128.07	2.92E-057	6.71E-057		
					126.07	1.94E-057	4.06E-057		
1600	131.0X	4.24X	-0.427X	2.530X	130.0	2.19E-05	5.03E-05	6.87E-03X	1.58E-02X
					129.0	2.10E-05	4.82E-05		
					136.0	2.03E-05	4.67E-05		
3200	131.8	3.61	0.675	3.972	129.0	8.08E-06	1.86E-05	3.27E-03	7.53E-03
					130.0	6.41E-06	1.47E-05		
					131.0	6.20E-06	1.43E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING ON THE 200, 800, 1600, AND 3200 M ARCS.
ALL THE ARCS ENBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.
19 OF THE 20 TOWERS ARE "HIT" BY THE TRACER; MOST OF THE VERTICAL
DISTRIBUTIONS ARE SLIGHTLY TILDCATED AT THE TOP. HALF THE GROUND LEVEL
SAMPLERS WERE ROTATED 180 DEGREES FROM THE SOURCE (* = ROTATED 180 DEGS.).

TEST F140 SEPTEMBER 27, 1960 0457 TO 0557 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 2.1M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	F/O	EU/O	CI(E/O)	CI(EU/O)
METERS	DEG	DEG			DEG	SEC/CM	1/80,M	SEC/80,M	1/M
200	114.4X	13.26X	-0.273X	2.020X	126.0X	3.75E-04X	7.87E-04X	2.80E-02X	5.88E-02X
					122.0X	3.22E-04X	6.76E-04X		
					118.0X	2.91E-04X	6.12E-04X		
800	115.2X	12.00X	-0.181X	1.780X	126.0X	2.91E-05X	6.12E-05X	8.32E-03X	1.75E-02X
					118.0X	2.81E-05X	5.90E-05X		
					102.0X	1.80E-05X	3.79E-05X		
1600	117.2X	10.78X	-0.090X	1.755X	126.0X	1.26E-05X	2.65E-05X	5.04E-03X	1.06E-02X
					116.0X	8.14E-06X	1.71E-05X		
					128.0X	7.96E-06X	1.67E-05X		
3200	117.4X	9.28X	0.235X	1.762X	106.0X	2.70E-06X	5.68E-06X	2.47E-03X	5.19E-03X
					108.0X	2.54E-06X	5.33E-06X		
					124.0X	2.30E-06X	4.84E-06X		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING ON THE 200, 800, 1600, AND 3200 M ARCS.
GROUND LEVEL SAMPLING ON THE 12800 M ARC. ALL ARCS EMBRACE THE CROSSWIND
EXTENT OF THE TRACER DISTRIBUTION. 19 OF THE 20 TOWERS ARE "HIT" BY THE
TRACER; ALL VERTICAL DISTRIBUTIONS ARE TRUNCATED AT THE TOP. EVERY OTHER
GROUND LEVEL SAMPLER IS ROTATED 180 DEGS. FROM THE SOURCE (* = ROTATED).

TEST FT45 OCTOBER 12, 1960 1248 TO 1317 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 6.0M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND. DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/SQ.M	SEC/SQ.M	1/M
200	114.1X	10.04X	0.175X	2.175X	106.0X 114.0X 102.0X	3.67E-05X 3.18E-05X 2.58E-05X	2.20E-04X 1.91E-04X 1.55E-04X	2.13E-03X	1.28E-02X
800	114.3X	10.46X	-0.015X	1.971X	122.0X 106.0X 110.0X	2.23E-06X 1.72E-06X 1.63E-06X	1.34E-05X 1.03E-05X 9.78E-06X	5.00E-04X	3.00E-03X
1600	114.5X	9.49X	-0.141X	2.014X	120.0X 116.0X 108.0X	5.12E-07X 4.72E-07X 4.67E-07X	3.07E-06X 2.83E-06X 2.80E-06X	2.40E-04X	1.44E-03X
3200	113.5X	7.64X	-0.211X	1.851X	118.0X 122.0X 108.0X	1.13E-07X 1.07E-07X 9.69E-08X	6.76E-07X 6.40E-07X 5.81E-07X	6.77E-05X	4.06E-04X
12800	114.2X	4.05X	0.314X	1.592X	110.0X 115.0X 120.0X	1.36E-08X 1.01E-08X 8.21E-09X	8.13E-08X 6.04E-08X 4.93E-08X	3.55E-05X	2.13E-04X

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST FT46 OCTOBER 18, 1960 0523 TO 0613 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 1.6M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND. DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/SQ.M	SEC/SQ.M	1/M
200	132.5X	7.48X	-0.370X	3.050X	134.0X 138.0X 130.0X	8.57E-04X 6.76E-04X 6.73E-04X	1.37E-03X 1.08E-03X 1.08E-03X	4.37E-02X	6.99E-02X
800	133.4X	5.62X	-0.336X	2.268X	134.0X 138.0X 140.0X	1.05E-04X 9.28E-05X 8.05E-05X	1.67E-04X 1.48E-04X 1.29E-04X	1.83E-02X	2.93E-02X
1600	131.7X	3.64X	-0.290X	2.260X	134.0X 132.0X 128.0X	3.06E-05X 2.39E-05X 2.35E-05X	4.89E-05X 3.83E-05X 3.76E-05X	6.51E-03X	1.04E-02X
3200	129.8X	4.90X	0.156X	2.610X	130.0X 129.0X 128.0X	6.80E-06X 5.87E-06X 4.85E-06X	1.09E-05X 9.39E-06X 7.75E-06X	3.54E-03X	5.66E-03X
12800	126.7X	6.49X	-1.906X	5.122X	130.0X 125.0X 110.0X	1.16E-07X 1.94E-08X 1.84E-08X	1.85E-07X 3.10E-08X 2.95E-08X	1.79E-04X	2.86E-04X

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 400, 1600 AND 3200 M ARCS. ONLY THE 3200 M ARC EMBRACES THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 10 OF THE 20 TOWERS ARE "HIT" BY THE TRACER; 8 OF 10 VERTICAL DISTRIBUTIONS ARE TRUNCATED AT THE TOP.

TEST F147 JANUARY 18, 1961 1121 TO 1151 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M OR 3.6M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/G	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CL.M	1/80.M	SEC/80.M	1/M
200	137.1X	10.49X	-0.310X	2.596X	134.0X 138.0X 142.0X	1.23E-04X 1.17E-04X 1.06E-04X	4.44E-04X 4.21E-04X 3.81E-04X	1.05E-02X	3.78E-02X
400	138.7X	10.60X	0.169X	2.162X	142.0X 130.0X 136.0X	3.03E-06X 2.28E-06X 2.10E-06X	1.09E-05X 8.22E-06X 7.55E-06X	7.88E-04X	2.84E-03X
1600	131.9X	4.99X	-0.372X	2.018X	137.0X 138.0X 133.0X	8.94E-07X 7.80E-07X 7.10E-07X	3.22E-06X 2.81E-06X 2.56E-06X	2.32E-04X	8.35E-04X
3200	138.0	4.88	0.283	3.342	139.07 137.0 136.0	3.06E-077 2.84E-07 2.54E-07	1.10E-067 1.02E-06 9.15E-07	1.72E-04	6.19E-04

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 400, 1600 AND 3200 M ARCS. THE 400 AND 3200 M ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 15 OF THE 20 TOWERS ARE "HIT" BY THE TRACER; ALL 15 TOWERS ARE TRUNCATED AT THE TOP. TOWER SAMPLER FILTERS WERE VERY BRITTLE DUE TO OVER-EXPOSURE TO THE WEATHER.

TEST F148 FEBRUARY 17, 1961 1410 TO 1440 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M OR 2.9M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/G	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CL.M	1/80.M	SEC/80.M	1/M
200	133.3X	11.25X	0.028X	2.463X	134.0 132.0 138.0	1.24E-04 1.09E-04 1.07E-04	3.61E-04 3.16E-04 3.11E-04	1.02E-02	2.95E-02
400	134.8	11.14	-0.052	2.667	132.0 136.0 130.0	3.02E-06 2.77E-06 2.67E-06	8.77E-06 8.03E-06 7.75E-06	8.48E-04	2.46E-03
1600	130.3X	6.47X	-0.980X	3.773X	138.0X 137.0X 133.0X	1.09E-06X 8.70E-07X 6.98E-07X	3.16E-06X 2.52E-06X 2.02E-06X	2.75E-04X	7.98E-04X
3200	130.0	11.66	-1.747	8.679	131.0 136.0 133.0	1.46E-07 1.37E-07 1.34E-07	4.24E-07 3.98E-07 3.89E-07	1.37E-04	3.97E-04

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS. NONE OF THE ARCS FULLY ENBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 15 OF THE 20 TOWERS ARE "HIT" BY THE TRACER; MOST OF THE VERTICAL DISTRIBUTIONS ARE TRUNCATED AT THE TOP. TOWER FILTERS WERE VERY BRITTLE DUE TO OVER-EXPOSURE TO THE WEATHER.

TEST FT49 APRIL 3, 1961 1041 TO 1111 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 5.1M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/G	EU/Q	CI(E/G)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CLM	1/80,M	SEC/80,M	1/M
200	142.0X	14.28X	-1.888X	7.298X	146.0X	7.80E-06X	3.98E-05X	5.30E-04X	2.70E-03X
					142.0X	7.59E-06X	3.87E-05X		
					158.0X	6.90E-06X	3.52E-05X		
800	142.8X	11.80X	-1.402X	6.217X	142.0	2.42E-07	1.24E-06	5.18E-05X	2.64E-04X
					146.0	2.11E-07	1.08E-06		
					138.0	1.54E-07	7.86E-07		
1600	128.3X	9.50X	-1.075X	3.289X	138.0X	1.42E-07X	7.23E-07X	2.46E-05X	1.25E-04X
					136.0X	9.93E-08X	5.06E-07X		
					125.0X	6.45E-08X	3.29E-07X		
3200	146.9X	11.43X	-0.785X	2.496X	157.0X	2.17E-08X	1.11E-07X	1.62E-05X	8.25E-05X
					142.0X	2.04E-08X	1.04E-07X		
					155.0X	1.91E-08X	9.72E-08X		

? INDICATES UNCERTAINTIES IN DATA.

x INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600, 3200 AND 12800 M ARCS. ALL THE ARCS ENBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. ALL 20 TOWERS ARE "HIT" BY THE TRACER; 15 OF 20 VERTICAL DISTRIBUTIONS ARE TRUNCATED AT THE TOP.

TEST FT50 APRIL 11, 1961 0515 TO 0545 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 4.1M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CLM	1/80,M	SEC/80,M	1/M
200	120.8	6.73	-1.092	7.781	124.0	2.59E-04	1.06E-03	1.31E-02	5.35E-02
					126.0	2.52E-04	1.03E-03		
					120.0	2.09E-04	8.57E-04		
800	120.0	6.27	-1.031	6.376	124.0	2.58E-05	1.06E-04	3.78E-03	1.55E-02
					122.0	1.95E-05	7.99E-05		
					126.0	1.64E-05	6.74E-05		
1600	118.8	6.56	-0.688	3.317	122.0	6.25E-06	2.56E-05	2.31E-03	9.46E-03
					120.0	6.17E-06	2.53E-05		
					119.0	5.43E-06	2.23E-05		
3200	116.5	8.37	-0.922	4.257	117.0	1.32E-06	5.43E-06	1.18E-03	4.84E-03
					118.0	1.18E-06	4.83E-06		
					127.0	1.17E-06	4.79E-06		
12800	107.37	5.957	2.0997	8.9667	102.07	4.20E-087	1.72E-077	9.34E-057	3.83E-047
					107.07	3.83E-087	1.57E-077		
					105.07	3.01E-087	1.23E-077		

? INDICATES UNCERTAINTIES IN DATA.

x INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS. ALL ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 15 OF 20 TOWERS ARE "HIT" BY THE TRACER; ALL 15 VERTICAL DISTRIBUTIONS ARE TRUNCATED AT THE TOP. TOWER FILTERS WERE VERY BRITTLE DUE TO OVER-EXPOSURE TO THE WEATHER.

TEST FT51 MAY 1, 1961 1002 TO 1032 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 4.8M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/30,M	SEC/30,M	1/M
200	120.9	9.69	0.100	2.858	120.0	8.71E-05	4.18E-04	6.47E-03	3.11E-02
					118.0	7.44E-05	3.57E-04		
					128.0	7.18E-05	3.45E-04		
800	123.0	9.70	-0.690	6.350	120.0	2.66E-06	1.28E-05	6.89E-04	3.31E-03
					122.0	2.32E-06	1.11E-05		
					118.0	2.29E-06	1.10E-05		
1600	122.2	6.72	0.293	2.638	122.0	4.16E-07	2.00E-06	1.84E-04	8.83E-04
					121.0	3.95E-07	1.90E-06		
					120.0	3.91E-07	1.87E-06		
3200	119.4	10.71	-1.594	6.604	122.0	1.09E-07	5.22E-07	7.93E-05	3.81E-04
					121.0	1.02E-07	4.92E-07		
					126.0	8.47E-08	4.06E-07		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS. ALL ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 18 OF 20 TOWERS ARE "HIT" BY THE TRACER; ALL 18 VERTICAL DISTRIBUTIONS ARE TRUNCATED AT THE TOP. TOWER FILTERS WERE VERY BRITTLE DUE TO OVER-EXPOSURE TO THE WEATHER.

TEST FT52 MAY 12, 1961 0505 TO 0615 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 3.8M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/30,M	SEC/30,M	1/M
200	110.2	7.80	-0.500	4.019	112.0	1.78E-04	6.75E-04	9.45E-03	3.59E-02
					110.0	1.51E-04	5.72E-04		
					108.0	1.39E-04	5.27E-04		
800	110.3	5.26	-0.037	3.511	110.0	1.15E-05	4.37E-05	1.91E-03	7.27E-03
					108.0	1.07E-05	4.06E-05		
					112.0	9.68E-06	3.68E-05		
1600	111.1	3.92	0.069	3.691	111.0	2.94E-06	1.12E-05	8.05E-04	3.06E-03
					112.0	2.88E-06	1.10E-05		
					113.0	2.88E-06	1.09E-05		
3200	112.9	3.78	2.859	35.494	113.0	1.15E-06	4.39E-06	4.22E-04	1.60E-03
					112.0	1.06E-06	4.01E-06		
					111.0	9.68E-07	3.68E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 400, 1600, 3200 AND 12800
M ARCS. ALL THE ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER
DISTRIBUTION, 13 OF 20 TOWERS ARE "HIT" BY THE TRACER

TEST F153 JUNE 27, 1961 0550 TO 0611 PST										
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M										
SAMPLER HT 1.5M U= 3.2M/SEC AT 2M										
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES		
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/R	CI(E/Q)	CI(EU/Q)	
METERS	DEG	DEG			DEG	SEC/CL,M	1/80,M	SEC/80,M	1/M	
200	109.2	4.86	-0.007	3.324	110.0	2.66E-04	8.52E-04	1.04E-02	3.32E-02	
					108.0	2.64E-04	8.43E-04			
					106.0	2.15E-04	6.88E-04			
400	107.4	3.26	0.185	2.873	108.0	2.52E-05	8.06E-05	2.15E-03	6.88E-03	
					104.0	1.80E-05	5.77E-05			
					110.0	1.54E-05	4.93E-05			
1600	108.0	3.21	0.762	3.300	106.0	6.56E-06	2.10E-05	1.10E-03	3.53E-03	
					105.0	5.30E-06	1.70E-05			
					107.0	4.80E-06	1.53E-05			
3200	108.7	2.87	0.405	2.717	107.0	2.25E-06	7.19E-06	7.09E-04	2.27E-03	
					109.0	1.68E-06	5.37E-06			
					108.0	1.39E-06	4.46E-06			
12800	105.6	2.70	-0.520	2.469	107.0	6.43E-08	2.06E-07	7.30E-05	2.34E-04	
					102.0	2.41E-08	7.72E-08			
					105.0	2.14E-08	6.86E-08			

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 400, 1600 AND 3200 M ARCS.
ALL ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.
18 OF 20 TOWERS ARE "HIT" BY THE TRACER; ALL OF THE TOWERS EMBRACE
THE VERTICAL EXTENT OF THE TRACER DISTRIBUTION.

TEST F154 JULY 12, 1961 0407 TO 0437 PST										
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M										
SAMPLER HT 1.5M U= 1.9M/SEC AT 2M										
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES		
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)	
METERS	DEG	DEG			DEG	SEC/CL,M	1/80,M	SEC/80,M	1/M	
200	112.2	5.99	-0.925	3.293	116.0	1.24E-03	2.36E-03	4.59E-02	8.71E-02	
					114.0	1.08E-03	2.05E-03			
					112.0	9.67E-04	1.84E-03			
400	113.3	5.39	-1.283	3.927	116.0	1.36E-04	2.58E-04	1.43E-02	2.73E-02	
					114.0	9.39E-05	1.78E-04			
					118.0	8.70E-05	1.65E-04			
1600	114.5	5.03	-1.153	3.709	117.0	3.13E-05	5.95E-05	6.67E-03	1.27E-02	
					118.0	2.91E-05	5.52E-05			
					116.0	2.66E-05	5.06E-05			
3200	115.5	5.84	-0.891	2.529	119.0	8.13E-06	1.58E-05	2.53E-03	4.81E-03	
					118.0	5.48E-06	1.04E-05			
					120.0	5.12E-06	9.73E-06			

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 400, 1600 AND 3200 M ARCS.
ALL ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.
18 OF 20 TOWERS ARE "HIT" BY THE TRACER.

TEST FT55 JULY 14, 1961 0456 TO 0526 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 2.5M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/80.M	SEC/80.M	1/M
200	107.5	4.99	-0.179	2.564	110.0	4.87E-04	1.22E-03	2.18E-02	5.46E-02
					108.0	4.56E-04	1.10E-03		
					112.0	4.27E-04	1.07E-03		
800	106.5	4.33	-0.455	2.633	108.0	4.92E-05	1.23E-04	6.60E-03	1.65E-02
					110.0	4.31E-05	1.08E-04		
					106.0	3.15E-05	7.88E-05		
1600	105.5	4.15	-0.005	3.210	108.0	1.56E-05	3.90E-05	3.48E-03	8.70E-03
					107.0	1.48E-05	3.70E-05		
					106.0	1.38E-05	3.45E-05		
3200	101.6	5.35	-0.452	2.455	106.0	3.70E-06	9.25E-06	2.03E-03	5.07E-03
					107.0	3.48E-06	8.69E-06		
					105.0	2.99E-06	7.47E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 400, 1600 AND 3200 M ARCS.
ALL THE ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.
ALL THE TOWERS ARE "HIT" BY THE TRACER AND EMBRACE THE VERTICAL DISTRIBUTIONS.

TEST FT56 AUGUST 3, 1961 0505 TO 0615 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 0.4M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/80.M	SEC/80.M	1/M
200	124.9	10.30	0.601	2.427	120.0	1.35E-03	1.08E-03	8.47E-02	6.78E-02
					118.0	1.30E-03	1.04E-03		
					122.0	1.14E-03	9.10E-04		
800	123.5	8.69	0.976	4.337	122.0	2.25E-04	1.80E-04	2.50E-02	2.00E-02
					120.0	2.20E-04	1.76E-04		
					118.0	1.09E-04	8.73E-05		
1600	120.0	10.50	0.209	2.797	121.0	3.02E-05	2.41E-05	1.15E-02	9.18E-03
					122.0	2.97E-05	2.38E-05		
					120.0	2.24E-05	1.79E-05		
3200	112.77	12.927	-1.0867	4.2477	115.0	4.07E-06	3.26E-06	2.22E-037	1.78E-037
					114.0	3.58E-06	2.86E-06		
					113.0	2.87E-06	2.29E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS.
ALL THE ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.
16 OF 20 TOWERS ARE "HIT" BY THE TRACER; 5 OF THE VERTICAL DISTRIBUTIONS
ARE TRUNCATED AT THE TOP.

TEST F157 AUGUST 9, 1961 0459 TO 0529 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 2.6M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/30,M	SEC/30,M	1/M
200	110.5	3.65	0.066	3.180	110.0	8.25E-04	2.14E-03	2.61E-02	6.78E-02
					112.0	7.84E-04	2.04E-03		
					108.0	6.63E-04	1.72E-03		
800	110.4	2.28	-0.123	6.721	110.0	1.01E-04	2.61E-04	8.06E-03	2.10E-02
					112.0	8.48E-05	2.20E-04		
					108.0	5.33E-05	1.39E-04		
1600	110.2	1.90	-0.136	3.531	111.0	3.14E-05	8.17E-05	4.12E-03	1.07E-02
					110.0	2.91E-05	7.58E-05		
					109.0	2.55E-05	6.62E-05		
3200	109.6	1.94	-0.364	3.159	110.0	5.97E-06	1.55E-05	1.70E-03	4.42E-03
					109.0	5.69E-06	1.48E-05		
					111.0	5.55E-06	1.44E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS.
NONE OF THE ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.
ALL THE TOWERS ARE "HIT" AND CONTAINED THE VERTICAL DISTRIBUTION. MANY
FILTERS ARE RUPTURED.

TEST F158 DECEMBER 5, 1961 0953 TO 1008 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 1.0M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/30,M	SEC/30,M	1/M
200	149.7X	20.36X	-2.737X	8.786X	158.0X	1.68E-04X	1.68E-04X	2.80E-03X	2.80E-03X
					156.0X	1.21E-04X	1.21E-04X		
					154.0X	6.25E-05X	6.25E-05X		
800	114.4X	32.72X	0.059X	1.377X	80.0X	5.87E-07X	5.87E-07X	1.36E-04X	1.36E-04X
					78.0X	5.60E-07X	5.60E-07X		
					160.0X	5.56E-07X	5.56E-07X		
1600	139.7X	14.09X	-2.008X	8.479X	152.0X	2.41E-06X	2.41E-06X	1.15E-03X	1.15E-03X
					154.0X	2.35E-06X	2.35E-06X		
					149.0X	2.16E-06X	2.16E-06X		
3200	132.2X	15.32X	-0.392X	3.617X	121.0	9.96E-07	9.96E-07	1.52E-03X	1.52E-03X
					131.0	8.94E-07	8.94E-07		
					132.0	8.90E-07	8.90E-07		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS,
ONLY THE 200 M ARC DID NOT EMBRACE THE CROSSWIND EXTENT OF THE TRACER
DISTRIBUTION. 8 OF THE 20 TOWERS WERE "HIT" BY THE TRACER.

TEST FT59 DECEMBER 13, 1961 1042 TO 1112 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M W 2.8M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/30,M	SEC/30,M	1/M
200	139.0?	8.04?	-0.040?	2.213?	136.0? 1.43E-04? 3.99E-04? 138.0? 1.28E-04? 3.60E-04? 142.0? 1.28E-04? 3.58E-04?			9.66E-03? 2.71E-02?	
800	138.9	5.25	-0.042	3.174	140.0 4.11E-06 1.15E-05 142.0 3.81E-06 1.07E-05 136.0 3.41E-06 9.55E-06			6.91E-04 1.93E-03	
1600	139.4	4.35	-0.180	3.028	142.0 7.32E-07 2.05E-06 141.0 6.70E-07 1.88E-06 140.0 5.34E-07 1.50E-06			1.59E-04 4.46E-04	
3200	137.5	4.41	0.013	2.337	136.0 1.80E-07 5.03E-07 140.0 1.50E-07 4.21E-07 139.0 1.36E-07 3.80E-07			8.16E-05 2.29E-04	

? INDICATES UNCERTAINTIES IN DATA.

x INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS,
ALL OF THE ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.
4 OF THE 20 TOWERS ARE "HIT" BY THE TRACER; NONE OF THE 4 TOWERS
CONTAIN THE VERTICAL DISTRIBUTIONS.

TEST FT60 FEBRUARY 9, 1962 0909 TO 1020 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M W 3.0M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/30,M	SEC/30,M	1/M
200	124.5	5.38	-0.034	2.572	124.0 3.12E-04 9.37E-04 128.0 2.79E-04 8.36E-04 120.0 2.76E-04 8.28E-04			1.56E-02 4.69E-02	
800	123.4	4.11	-0.157	3.095	124.0 2.57E-05 7.72E-05 122.0 1.85E-05 5.56E-05 126.0 1.39E-05 4.17E-05			2.86E-03 8.57E-03	
1600	124.5	3.18	0.122	2.961	124.0 5.53E-06 1.66E-05 125.0 5.43E-06 1.63E-05 126.0 4.27E-06 1.26E-05			1.09E-03 3.26E-03	
3200	124.4	2.38	-0.035	3.177	125.0 3.05E-06 9.14E-06 124.0 2.86E-06 8.59E-06 123.0 2.45E-06 7.35E-06			9.85E-04 2.96E-03	

? INDICATES UNCERTAINTIES IN DATA.

x INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS.
ALL OF THE ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.
15 OF 20 TOWERS ARE "HIT" BY THE TRACER

TEST FT61 FEBRLARY 28, 1962 1114 TO 1145 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 0.2M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/80.M	SEC/80.M	1/M
200	123.8	7.11	-0.238	2.683	126.0	1.44E-04	6.03E-04	8.16E-03	3.43E-02
					124.0	1.25E-04	5.24E-04		
					128.0	1.16E-04	4.88E-04		
800	124.2	6.19	-0.093	2.153	130.0	2.03E-06	8.51E-06	2.58E-04	1.08E-03
					122.0	1.50E-06	6.29E-06		
					118.0	9.96E-07	4.18E-06		
1600	124.0	4.77	0.062	2.684	125.0	7.99E-07	3.36E-06	2.16E-04	9.09E-04
					122.0	7.05E-07	2.96E-06		
					123.0	6.85E-07	2.88E-06		
3200	123.4	9.25	-2.816	11.398	125.0	4.14E-07	1.74E-06	1.78E-04	7.49E-04
					124.0	3.37E-07	1.42E-06		
					123.0	3.21E-07	1.35E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS.
NONE OF THE ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.
17 OF 20 TOWERS ARE "HIT" BY THE TRACER

TEST FT62 JULY 10, 1962 0422 TO 0452 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 0.7M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/80.M	SEC/80.M	1/M
200	78.0X	5.84X	0.066X	2.085X	72.0X	1.27E-03X	8.88E-04X	5.49E-02X	3.84E-02X
					70.0X	1.19E-03X	8.35E-04X		
					80.0X	1.19E-03X	8.31E-04X		
800	77.5X	5.66X	1.146X	6.448X	76.0X	6.20E-05X	4.34E-05X	1.17E-02X	8.16E-03X
					78.0X	5.89E-05X	4.12E-05X		
					74.0X	5.62E-05X	3.93E-05X		
1600	79.2X	6.34X	0.504X	2.967X	70.0X	1.34E-05X	9.35E-06X	4.53E-03X	3.17E-03X
					78.0X	1.16E-05X	8.11E-06X		
					77.0X	1.08E-05X	7.57E-06X		
3200	82.2X	7.10X	0.618X	3.065X	75.0	3.25E-06	2.27E-06	3.19E-03X	2.24E-03X
					76.0	3.24E-06	2.27E-06		
					85.0	3.15E-06	2.21E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING ON THE 200 AND 800 M ARCS. GROUND LEVEL SAMPLING ONLY ON THE 1600, 3200 AND 12800 M ARCS. NONE OF THE ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. ALL 10 TOWERS ARE HIT BY THE TRACER. DUST AND CARBON DEPOSITS ON THE FILTERS COLLECTED FROM THE 12800 M ARC.

TEST F1A3 JULY 22, 1962 2152 TO 0108 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 1.3M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/80.M	SEC/80.M	1/M
200	105.9X	19.43X	-0.301X	1.900X	108.0	2.53E-04	3.28E-04	3.31E-02X	4.34E-02X
					128.0	2.48E-04	3.23E-04		
					110.0	2.30E-04	2.99E-04		
800	105.7X	19.11X	-0.184X	1.791X	130.0	2.54E-05	3.30E-05	1.19E-02X	1.55E-02X
					120.0	2.01E-05	2.61E-05		
					126.0	1.99E-05	2.59E-05		
1600	102.7X	19.19X	-0.104X	1.768X	129.0	5.64E-06	7.33E-06	5.27E-03X	6.85E-03X
					106.0	5.37E-06	6.97E-06		
					126.0	5.13E-06	6.67E-06		
3200	102.5X	19.55X	-0.067X	1.638X	128.0X	1.87E-06X	2.44E-06X	2.95E-03X	3.84E-03X
					127.0X	1.84E-06X	2.39E-06X		
					129.0X	1.72E-06X	2.24E-06X		
12800	107.4X	10.15X	0.269X	1.918X	100.07	1.09E-077	1.41E-077	4.14E-04X	5.39E-04X
					101.07	1.05E-077	1.36E-077		
					102.07	1.03E-077	1.33E-077		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING ON THE 200 AND 800 M ARCS. GROUND LEVEL SAMPLING ONLY ON THE 1600, AND 3200 M ARCS. ALL OF THE ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. ALL 10 TOWERS ARE HIT BY THE TRACER.

TEST F1A4 JULY 23, 1962 2201 TO 2236 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 3.1M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/80.M	SEC/80.M	1/M
200	100.9X	10.24X	-1.356X	5.078X	100.0	8.54E-04	2.65E-03	4.34E-02X	1.34E-01X
					102.0	8.29E-04	2.57E-03		
					98.0	5.86E-04	1.82E-03		
800	97.6X	11.89X	-0.942X	3.076X	104.0	5.87E-05	1.82E-04	1.17E-02X	3.62E-02X
					100.0	4.89E-05	1.52E-04		
					98.0	4.44E-05	1.50E-04		
1600	97.3X	13.44X	-0.682X	2.120X	104.0	1.47E-05	4.55E-05	7.34E-03X	2.27E-02X
					103.0	1.32E-05	4.10E-05		
					105.0	1.26E-05	3.91E-05		
3200	93.5	11.40	0.218	1.793	80.0	3.07E-06	9.51E-06	3.99E-03	1.24E-02
					83.0	2.95E-06	9.14E-06		
					84.0	2.92E-06	9.05E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 200, 800, 1600, 3200 AND 12800 M ARCS; TOWER
SAMPLING AT 200 AND 800 M ARCS. ALL THE ARCS EMBRACE THE CROSSWIND
EXTENT OF THE TRACER DISTRIBUTION. ALL TOWERS ARE "HIT" BY THE TRACER;

TEST FT65 JULY 24, 1962 2150 TO 2205 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 4.9M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEN	KURT	AZIMUTH	E/G	EU/Q	CI(E/G)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/80,M	SEC/80,M	1/M
200	124.4	10.92	-0.726	2.952	132.0	1.24E-04	6.09E-04	8.38E-03	4.10E-02
					134.0	1.22E-04	6.00E-04		
					128.0	1.01E-04	4.95E-04		
800	124.1	11.07	-0.931	3.374	132.0	1.09E-05	5.34E-05	2.25E-03	1.10E-02
					128.0	8.54E-06	4.19E-05		
					130.0	5.51E-06	4.17E-05		
1600	122.0	11.45	-0.567	2.284	133.0	3.28E-06	1.61E-05	1.19E-03	5.85E-03
					132.0	2.73E-06	1.34E-05		
					134.0	2.71E-06	1.33E-05		
3200	120.0	10.88	-0.341	1.980	132.0	8.06E-07	3.95E-06	6.66E-04	3.26E-03
					108.0	6.72E-07	3.29E-06		
					126.0	6.48E-07	3.17E-06		
12800	115.1	4.63	0.100	2.268	115.0	1.39E-07	6.83E-07	3.00E-04	1.47E-03
					116.0	1.06E-07	5.19E-07		
					117.0	9.46E-08	4.63E-07		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 200, 800, 1600, 3200 AND 12800 M ARCS;
TOWER SAMPLING AT 200 AND 800 M ARCS. ALL ARCS EMBRACE THE CROSSWIND
EXTENT OF THE TRACER DISTRIBUTION. ALL TOWERS ARE "HIT" BY THE TRACER;

FILTERS AT 12800 M ARE DUSTY.

TEST FT66 JULY 25, 1962 2213 TO 2313 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 3.3M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEN	KURT	AZIMUTH	E/G	EU/Q	CI(E/G)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/80,M	SEC/80,M	1/M
200	125.8	15.54	-0.673	2.422	136.0	1.90E-04	6.27E-04	1.57E-02	5.17E-02
					140.0	1.81E-04	5.96E-04		
					138.0	1.69E-04	5.57E-04		
800	125.4	16.34	-0.708	2.275	140.0	1.58E-05	5.22E-05	3.88E-03	1.28E-02
					142.0	1.23E-05	4.05E-05		
					136.0	9.74E-06	3.21E-05		
1600	123.7	16.42	-0.344	1.659	141.0	4.45E-06	1.47E-05	2.02E-03	6.68E-03
					142.0	3.75E-06	1.24E-05		
					139.0	2.96E-06	9.78E-06		
3200	120.8	15.04	-0.095	1.458	139.0	1.38E-06	4.56E-06	1.11E-03	3.68E-03
					137.0	1.22E-06	4.01E-06		
					140.0	1.19E-06	3.92E-06		
12800	117.32	8.472	0.3452	1.8962	128.02	1.26E-072	4.15E-072	3.15E-042	1.04E-032
					110.02	1.04E-072	3.44E-072		
					109.02	1.03E-072	3.40E-072		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 200, 800, 1600 AND 3200 M ARCS; TOWER SAMPLING AT 200 AND 800 M ARCS. ALL ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. ALL TOWERS ARE "HIT" BY THE TRACER

TEST FT67 JULY 29, 1962 2227 TO 2313 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 1.7M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEN	KURT	AZIMUTH	E/G	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/90.M	SEC/80.M	1/M
200	95.1	9.08	0.405	4.293	94.0	6.14E-04	1.04E-03	4.57E-02	7.78E-02
					96.0	5.50E-04	9.35E-04		
					92.0	5.26E-04	8.94E-04		
800	93.6	8.54	1.066	8.067	98.0	5.40E-05	9.18E-05	1.26E-02	2.14E-02
					90.0	4.84E-05	8.23E-05		
					96.0	4.51E-05	7.68E-05		
1600	94.2	8.80	0.396	5.747	97.0	1.77E-05	3.00E-05	7.56E-03	1.29E-02
					96.0	1.53E-05	2.60E-05		
					99.0	1.52E-05	2.59E-05		
3200	96.9	6.80	-0.265	3.847	96.0	4.93E-06	8.38E-06	3.87E-03	6.57E-03
					97.0	4.57E-06	7.78E-06		
					98.0	4.28E-06	7.28E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 200, 800, 1600 AND 3200 M ARCS; TOWER SAMPLING AT 200 AND 800 M ARCS. ALL ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. ALL TOWERS ARE "HIT" BY THE TRACER. 6 OF 10 TOWERS VERTICAL DISTRIBUTIONS ARE TRUNCATED AT THE TOP.

TEST FT6A JULY 30, 1962 2107 TO 2152 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 3.8M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEN	KURT	AZIMUTH	E/G	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/90.M	SEC/80.M	1/M
200	130.1	5.66	-1.383	10.833	132.0	3.38E-04	1.29E-03	1.34E-02	5.09E-02
					130.0	2.72E-04	1.03E-03		
					134.0	2.40E-04	9.14E-04		
800	130.3	4.63	-2.487	18.926	132.0	3.06E-05	1.16E-04	3.67E-03	1.39E-02
					130.0	2.69E-05	1.02E-04		
					128.0	1.97E-05	7.50E-05		
1600	130.0	4.44	-3.619	27.362	129.0	1.10E-05	4.17E-05	2.02E-03	7.66E-03
					131.0	1.09E-05	4.13E-05		
					130.0	9.17E-06	3.48E-05		
3200	128.8	2.60	-1.863	11.592	130.0	3.43E-06	1.30E-05	9.28E-04	3.53E-03
					129.0	3.07E-06	1.17E-05		
					128.0	2.05E-06	9.30E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 200, 800, 1600, 3200 AND 12800 M ARCS;
TOWER SAMPLING AT 200 AND 800 M ARCS. ALL ARCS EMBRACE THE CROSSWIND EXTENT
OF THE TRACER DISTRIBUTION. ALL TOWERS ARE "HIT" BY THE TRACER; ALL 10
TOWERS VERTICAL DISTRIBUTIONS ARE TRUNCATED AT THE TOP. FILTERS AT 12800
M ARE DUSTY.

TEST FT69 JULY 31, 1962 2130 TO 2230 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 4.5M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/SQ.M	SEC/SQ.M	1/M
200	116.1	11.64	-0.051	2.846	116.0	1.35E-04	6.08E-04	1.07E-02	4.80E-02
					118.0	1.26E-04	5.65E-04		
					112.0	1.13E-04	5.10E-04		
800	116.1	11.14	0.196	2.591	116.0	8.76E-06	3.94E-05	2.44E-03	1.10E-02
					114.0	8.27E-06	3.72E-05		
					118.0	6.66E-06	3.08E-05		
1600	113.8	9.82	0.651	2.727	119.0	2.79E-06	1.26E-05	1.24E-03	5.56E-03
					111.0	2.64E-06	1.19E-05		
					112.0	2.30E-06	1.05E-05		
3200	113.0	7.88	0.754	2.818	112.0	1.24E-06	5.58E-06	7.19E-04	3.20E-03
					111.0	9.63E-07	4.33E-06		
					110.0	9.40E-07	4.23E-06		
12800	112.0?	0.12?	0.950?	3.136?	110.0?	1.87E-07?	8.42E-07?	2.42E-04?	1.27E-03?
					109.0?	1.73E-07?	7.78E-07?		
					111.0?	1.68E-07?	7.58E-07?		

? INDICATES UNCERTAINTIES IN DATA.

x INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 200, 800, 1600, 3200 AND 12800 M ARCS;
TOWER SAMPLING AT 200 AND 800 M ARCS. ALL ARCS EMBRACE THE CROSSWIND
EXTENT OF THE TRACER DISTRIBUTION. ALL TOWERS ARE "HIT" BY THE TRACER;
FILTERS AT 12800 M ARE DUSTY.

TEST FT70 AUGUST 1, 1962 2141 TO 2256 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 2.9M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/SQ.M	SEC/SQ.M	1/M
200	117.8	7.97	-0.418	3.070	124.0	3.49E-04	1.01E-03	2.02E-02	5.87E-02
					122.0	3.40E-04	9.87E-04		
					118.0	2.87E-04	8.32E-04		
800	119.9	6.85	-0.082	3.387	118.0	3.11E-05	9.03E-05	6.69E-03	1.93E-02
					122.0	2.88E-05	8.35E-05		
					116.0	2.69E-05	7.79E-05		
1600	121.4	5.77	0.180	2.882	120.0	1.12E-05	3.26E-05	3.56E-03	1.03E-02
					122.0	9.77E-06	2.83E-05		
					121.0	9.70E-06	2.81E-05		
3200	122.0	4.05	0.165	2.844	124.0	3.86E-06	1.12E-05	1.98E-03	5.75E-03
					123.0	3.76E-06	1.09E-05		
					121.0	3.26E-06	9.47E-06		
12800	116.3?	5.99?	-1.013?	3.077?	119.0?	2.19E-07?	6.35E-07?	3.60E-04?	1.04E-03?
					120.0?	2.14E-07?	6.19E-07?		
					121.0?	1.95E-07?	5.65E-07?		

? INDICATES UNCERTAINTIES IN DATA.

x INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 200, 800, 1600 AND 3200 M ARCS; TOWER
 SAMPLING AT 200 AND 800 M ARCS. NONE OF THE ARCS EMBRACE THE
 CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. ALL TOWERS ARE "HIT"
 BY THE TRACER; 6 OF 10 TOWERS VERTICAL DISTRIBUTIONS ARE TRUNCATED
 AT THE TOP.

TEST FT71 AUGUST 2, 1962 2130 TO 2221 PST
 71MC SULFIDE RELEASE FROM ELEVATION OF 2M
 SAMPLER HT 1.5M U= 1.9M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/30.M	SEC/30.M	1/M
200	126.1X	13.05X	0.676X	2.724X	126.0 124.0 128.0	3.49E-04 3.47E-04 3.18E-04	6.63E-04 6.60E-04 6.04E-04	2.91E-02X	5.53E-02X
800	126.9X	14.63X	0.652X	3.010X	124.0 122.0 120.0	3.09E-05 2.77E-05 2.76E-05	5.87E-05 5.26E-05 5.25E-05	8.73E-03X	1.66E-02X
1600	124.5X	11.42X	1.134X	3.367X	121.0 120.0 122.0	1.14E-05 1.04E-05 1.01E-05	2.17E-05 1.99E-05 1.93E-05	4.22E-03X	8.02E-03X
3200	128.3X	15.40X	0.930X	2.461X	119.0 120.0 118.0	5.26E-06 4.48E-06 2.95E-06	9.99E-06 8.51E-06 5.60E-06	2.56E-03X	4.86E-03X

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT THE 100, 200, 300, 400, 500, 600, 800, 1200,
AND 1600 M ARCS. 40 TOWER SAMPLING. ALL ARCS EMBRACE THE CROSSWIND
EXTENT OF THE TRACER DISTRIBUTION.

TEST #2 FEBRUARY 15, 1961 1430 TO 1500 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M U=12.0M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH		E/W	EU/W	CI(E/W) CI(EU/W)
METERS	DEG	DEG			DEG	SEC/CM	1/50,M	SEC/50,M	1/M
100	59.5?	9.45?	0.560?	6.743?	60.0?	1.54E-06?	1.92E-05?	1.88E-05?	2.33E-04?
					52.0?	4.74E-07?	5.87E-06?		
					44.0?	2.24E-07?	2.78E-06?		
200	57.2	11.27	0.765	1.814	50.0	6.52E-07	8.08E-06	1.81E-05	2.24E-04
					74.0	2.17E-07	2.69E-06		
					46.0	1.61E-07	1.99E-06		
300	53.7	7.55	1.094	4.12?	52.0	1.57E-06	1.94E-05	7.59E-05	9.42E-04
					56.0	6.37E-07	7.90E-06		
					44.0	4.27E-07	5.30E-06		
400	55.3	6.34	-0.146	3.086	54.0	2.42E-06	3.00E-05	2.40E-04	2.98E-03
					62.0	1.76E-06	2.18E-05		
					58.0	1.66E-06	2.06E-05		
500	55.9	6.45	-0.061	3.044	56.0	1.95E-06	2.42E-05	2.60E-04	3.22E-03
					60.0	1.55E-06	1.92E-05		
					48.0	1.27E-06	1.57E-05		
600	55.8	6.15	0.453	3.898	58.0	1.84E-06	2.28E-05	2.88E-04	3.57E-03
					54.0	1.62E-06	2.01E-05		
					50.0	1.56E-06	1.93E-05		
800	55.7	6.00	0.206	2.617	55.0	2.17E-06	2.69E-05	4.50E-04	5.58E-03
					49.0	1.75E-06	2.17E-05		
					58.0	1.73E-06	2.15E-05		
1200	56.6	5.43	0.219	3.157	58.0	1.90E-06	2.36E-05	3.61E-04	4.48E-03
					54.0	1.54E-06	1.91E-05		
					62.0	8.30E-07	1.03E-05		
1600	58.0	6.16	-0.096	2.667	56.0	6.60E-07	8.19E-06	1.99E-04	2.47E-03
					58.0	5.68E-07	7.04E-06		
					66.0	3.99E-07	4.95E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200, AND 1600 M
ARCS. NO TOWER SAMPLING. THE TRACER WAS NOT DETECTED ON THE 100 M ARC;
ALL THE OTHER ARCS EMBRACE THE FULL CROSSWIND EXTENT OF THE TRACER
DISTRIBUTION.

TEST U-5 MARCH 6, 1961 1135 TO 1235 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M U= 7.4M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	54.1?	15.76?	1.302?	3.705?	50.0?	6.37E-07?	4.72E-06?	5.85E-05?	4.33E-04?
					42.0?	5.82E-07?	4.30E-06?		
					70.0?	4.98E-07?	3.68E-06?		
300	50.8	20.43	1.266	3.521	40.0	1.09E-06	8.08E-06	1.35E-04	1.00E-03
					48.0	9.54E-07	7.06E-06		
					44.0	9.24E-07	6.84E-06		
400	49.2	20.82	1.064	2.922	38.0	2.79E-06	2.06E-05	4.38E-04	3.24E-03
					42.0	1.80E-06	1.33E-05		
					34.0	1.67E-06	1.23E-05		
500	50.6	20.69	0.908	2.596	36.0	3.18E-06	2.35E-05	6.79E-04	5.03E-03
					40.0	2.79E-06	2.07E-05		
					44.0	1.94E-06	1.43E-05		
600	47.8	19.57	1.152	3.302	38.0	3.49E-06	2.58E-05	8.29E-04	6.13E-03
					46.0	2.58E-06	1.91E-05		
					34.0	2.41E-06	1.78E-05		
800	46.8	20.09	0.987	2.865	37.0	2.12E-06	1.57E-05	8.29E-04	6.13E-03
					40.0	2.02E-06	1.49E-05		
					34.0	1.98E-06	1.47E-05		
1200	44.1	16.20	1.546	4.843	42.0	1.41E-06	1.04E-05	5.19E-04	3.84E-03
					36.0	1.15E-06	8.49E-06		
					32.0	1.09E-06	8.05E-06		
1600	44.4	15.06	1.464	4.528	38.0	1.23E-06	9.09E-06	5.15E-04	3.81E-03
					42.0	8.46E-07	6.26E-06		
					44.0	7.33E-07	5.43E-06		

? INDICATES UNCERTAINTIES IN DATA,

X INDICATES INVALID OR INCOMPLETE DATA,

GROUND LEVEL SAMPLED AT 100, 200, 300, 400, 500, 600, 800, 1200,
AND 1600 METERS. NO TOWER SAMPLING. ALL ARCS ENBRACE THE CROSSWIND EXTENT
OF THE TRACER DISTRIBUTION. ARCS 100 AND 200 M WERE CONTAMINATED.

TEST D-4 MARCH 10, 1961 1030 TO 1130 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HI 1.5M U=13.1M/SEC AT 56M									
DISTANCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND	
ARC	MEAN	STDEV	COEFFICIENT		ATMUTH	F/R	EU/G	INTEGRATED VALUES	
SOURCE	MEAN	STDEV	SKW	URT	ATMUTH	F/R	EU/G	CI(E/G)	CI(EU/G)
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NOTES	PER	DEC			DEC	SEC/CL,M	1/80,M	SEC/80,M	1/M
300	30.07	5.317	1.5607	4.3337	24.07	2.32E-067	3.04E-057	6.41E-057	8.40E-047
					40.07	5.59E-077	7.32E-067		
					36.07	8.11E-087	1.06E-067		
400	38.47	6.057	0.6382	3.3157	38.07	4.08E-077	5.34E-067	3.72E-057	4.87E-047
					34.07	3.47E-077	4.54E-067		
					42.07	2.09E-077	2.74E-067		
500	37.8	6.41	0.045	2.887	36.0	1.12E-06	1.47E-05	1.04E-04	1.36E-03
					32.0	4.09E-07	5.36E-06		
					40.0	4.04E-07	5.30E-06		
600	36.0	6.36	-0.475	3.634	38.0	1.42E-06	1.86E-05	2.05E-04	2.69E-03
					34.0	1.15E-06	1.51E-05		
					42.0	9.31E-07	1.22E-05		
800	35.5	6.69	-0.310	3.074	34.0	1.41E-06	1.85E-05	3.19E-04	4.18E-03
					37.0	1.39E-06	1.82E-05		
					40.0	1.24E-06	1.62E-05		
1200	35.3	6.28	-0.559	3.182	38.0	1.67E-06	2.19E-05	4.66E-04	6.10E-03
					40.0	1.40E-06	1.84E-05		
					34.0	1.40E-06	1.83E-05		
1600	35.0	6.16	-0.570	3.018	40.0	1.04E-06	1.37E-05	4.37E-04	5.73E-03
					34.0	1.03E-06	1.35E-05		
					38.0	1.03E-06	1.35E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200,
AND 1600 METERS. NO TOWER SAMPLING. ALL APES EMBRACE THE CROSSWIND
EXTENT OF THE TRACE DISTRIBUTION.

TEST 0-7 APRIL 12, 1961 1016 TO 1114 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 54M									
SAMPLER #1 1.5M U=9.2M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STDEV	COEFFICIENT OF VARIATION	COEFFICIENT OF VARIATION	AZIMUTH	E/Q	FU/Q	C1(E/Q)	C1(EU/Q)
METERS	SEC	SEC			DEG	SEC/CM	1/80,M	SEC/80,M	1/M
100	53.3	2.50	1.817	4.869	52.0	6.43E-08	5.91E-07	5.76E-07	5.30E-06
					56.0	1.05E-08	9.64E-08		
					60.0	7.75E-09	7.13E-08		
200	88.3	10.80	0.159	1.794	82.0	2.55E-08	2.35E-07	2.23E-06	2.05E-05
					70.0	2.01E-08	1.84E-07		
					102.0	1.82E-08	1.68E-07		
300	66.1	13.22	0.571	2.662	60.0	4.87E-07	4.48E-06	3.74E-05	3.44E-04
					58.0	1.97E-07	1.82E-06		
					80.0	1.70E-07	1.56E-06		
400	65.6	12.34	0.500	2.501	58.0	7.85E-07	7.22E-06	1.19E-04	1.09E-03
					54.0	5.37E-07	4.94E-06		
					62.0	4.49E-07	4.13E-06		
500	65.3	11.35	0.385	2.401	56.0	1.14E-06	1.05E-05	2.46E-04	2.27E-03
					60.0	1.05E-06	9.63E-06		
					64.0	7.72E-07	7.10E-06		
600	65.2	10.55	0.290	2.525	58.0	1.64E-06	1.51E-05	3.54E-04	3.26E-03
					70.0	1.13E-06	1.04E-05		
					62.0	9.82E-07	9.04E-06		
800	65.8	9.55	0.212	2.550	62.0	1.45E-06	1.33E-05	4.99E-04	4.59E-03
					55.0	1.35E-06	1.25E-05		
					61.0	1.31E-06	1.21E-05		
1200	66.7	9.42	0.037	2.329	70.0	7.25E-07	6.67E-06	3.23E-04	2.97E-03
					72.0	6.29E-07	5.78E-06		
					74.0	5.82E-07	5.36E-06		
1600	67.0	8.87	0.116	2.135	60.0	8.15E-07	3.81E-06	2.06E-04	1.89E-03
					70.0	3.09E-07	2.84E-06		
					76.0	2.99E-07	2.75E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

PAGE 0-8 DELETED 10, 1961 1315 TO 1350 PST
 7000 SHELTER BELFAST FROM TELEVISION OF 56A
 SHELTER OF 1.51 1315.5/SEC AT 56A

* INDICATES PARTIALLY COMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200,
AND 1600 M ARCS. NO TOWER SAMPLING. ALL ARCS EMBRACE THE CROSSWIND
EXTENT OF THE TRACE DISTRIBUTION. THERE WERE LIGHT RAIN SHOWERS
DURING GENERATION.

TEST U-9 SEPTEMBER 27, 1962 0942 TO 1042 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M U= 7.9M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND. DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/G	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	66.4	16.34	-0.707	3.145	66.0?	1.18E-06?	9.32E-06?	1.20E-04	9.47E-04
					62.0?	1.16E-06?	9.18E-06?		
					70.0?	1.16E-06?	9.18E-06?		
300	62.5?	16.56?	-0.843?	3.357?	64.0	3.74E-06	2.95E-05	4.63E-04?	3.66E-03?
					72.0	3.57E-06	2.82E-05		
					76.0	2.66E-06	2.10E-05		
400	62.1	15.56	0.048	2.788	62.0	3.86E-06	3.05E-05	5.63E-04	4.45E-03
					66.0	2.96E-06	2.34E-05		
					70.0	2.09E-06	1.65E-05		
500	62.6	14.54	0.368	2.710	64.0	2.27E-06	1.80E-05	5.81E-04	4.59E-03
					60.0	2.07E-06	1.63E-05		
					56.0	1.81E-06	1.43E-05		
600	62.3	12.41	0.084	3.399	66.0	2.87E-06	2.26E-05	6.04E-04	4.77E-03
					58.0	2.13E-06	1.68E-05		
					62.0	1.61E-06	1.27E-05		
800	59.6	13.54	0.371	3.630	61.0	2.29E-06	1.81E-05	6.83E-04	5.40E-03
					58.0	2.09E-06	1.65E-05		
					55.0	1.78E-06	1.41E-05		
1200	57.6	9.53	1.035	5.103	54.0	2.82E-06	2.23E-05	5.29E-04	4.18E-03
					52.0	2.01E-06	1.59E-05		
					56.0	1.09E-06	8.62E-06		
1600	57.6	8.89	0.988	4.826	52.0	1.54E-06	1.21E-05	4.75E-04	3.75E-03
					60.0	1.05E-06	8.29E-06		
					58.0	1.04E-06	8.24E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND-LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200, AND 1600 M ARCS, FOR TOP-LEVEL SAMPLING. TRACER WAS NOT DETECTED ON THE 100 M ARC, AND THE 4 ARCS ENCOMPASS THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST 4-10 OCCURRENCE 3, 1962 0930 TO 0955 PST ZINC SULFIDE RELEASE FROM ELEVATION OF 56M SAMPLER HT 1.5M U= 3.9M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/G	EU/D	CI(E/G)	CI(EU/D)
METERS	DEG	DEG			DEG	SEC/CM.P	1/30.M	SEC/30.M	1/M
200	66.8	9.88	0.195	4.800	66.0 70.0 62.0	2.41E-06 2.40E-06 2.30E-06	9.40E-06 9.37E-06 8.96E-06	1.92E-04	7.48E-04
300	62.8X	16.46X	0.489X	2.622X	64.0 60.0 68.0	9.00E-06 8.97E-06 7.61E-06	3.51E-05 3.48E-05 2.97E-05	1.70E-03X	6.64E-03X
400	67.3X	18.44X	0.724X	2.529X	58.0 62.0 54.0	1.05E-05 8.25E-06 7.60E-06	4.09E-05 3.22E-05 2.96E-05	1.88E-03X	7.35E-03X
500	69.6X	17.40X	0.680X	2.300X	56.0 60.0 64.0	7.62E-06 5.68E-06 4.68E-06	2.97E-05 2.21E-05 1.83E-05	1.69E-03X	6.60E-03X
600	71.3X	17.83X	0.518X	1.900X	54.0 58.0 62.0	4.97E-06 4.97E-06 4.74E-06	1.94E-05 1.94E-05 1.85E-05	1.74E-03X	6.80E-03X
800	73.4	15.52	0.229	1.716	55.0 64.0 58.0	2.29E-06 2.19E-06 2.17E-06	8.93E-06 8.55E-06 8.46E-06	1.09E-03	4.25E-03
1200	71.6	10.95	0.590	2.631	60.0 76.0 62.0	7.22E-07 5.70E-07 5.15E-07	2.82E-06 2.22E-06 2.01E-06	2.85E-04	1.11E-03
1600	72.3	8.32	0.540	3.297	74.0 70.0 66.0	3.48E-07 3.04E-07 2.71E-07	1.36E-06 1.19E-06 1.06E-06	1.21E-04	4.74E-04

X INDICATES UNCERTAINTIES IN DATA.

Y INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200,
AND 1600 M ARCS. NO TOWER SAMPLING. ONLY THE 100 AND 800M ARCS
EMPHASIZE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST U-11 OCTOBER 3, 1962 1056 TO 1156 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M U= 2.5M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH E/R EU/R			CI(E/R)	CI(EU/R)
NEIFNR	DEG	DEG			DEG	SEC/CM	1/50M	SEC/50M	1/M
100	65.0	20.06	-0.717	2.162	80.0	3.97E-06	9.93E-06	1.93E-04	4.83E-04
					84.0	3.09E-06	7.72E-06		
					76.0	2.73E-06	6.80E-06		
200	70.8X	18.72X	-0.077X	2.246X	74.0	7.31E-06	1.83E-05	1.19E-03X	2.97E-03X
					58.0	6.73E-06	1.68E-05		
					70.0	6.40E-06	1.60E-05		
300	77.5X	17.07X	-0.369X	2.308X	96.0X	1.00E-05X	2.50E-05X	2.00E-03X	5.00E-03X
					92.0X	9.37E-06X	2.34E-05X		
					84.0X	7.76E-06X	1.94E-05X		
400	76.4X	16.00X	-0.176X	2.564X	78.0	9.08E-06	2.27E-05	1.97E-03X	4.93E-03X
					66.0	7.38E-06	1.85E-05		
					74.0	7.17E-06	1.79E-05		
500	76.2X	14.92X	-0.434X	3.136X	72.0	6.97E-06	1.74E-05	1.80E-03X	4.50E-03X
					76.0	6.55E-06	1.64E-05		
					84.0	6.55E-06	1.64E-05		
600	76.7X	14.26X	-0.399X	3.125X	82.0	5.35E-06	1.34E-05	1.59E-03X	3.97E-03X
					86.0	4.51E-06	1.13E-05		
					78.0	4.18E-06	1.05E-05		
800	70.4	15.52	-0.369	2.967	79.0	2.49E-06	6.23E-06	1.09E-03	2.72E-03
					67.0	2.17E-06	5.43E-06		
					91.0	2.07E-06	5.18E-06		
1200	78.7X	13.91X	-0.321X	2.937X	70.0X	4.92E-07X	1.23E-06X	2.89E-04X	7.21E-04X
					84.0X	4.63E-07X	1.16E-06X		
					72.0X	4.34E-07X	1.08E-06X		
1600	77.5X	15.08X	-0.136X	2.236X	66.0X	2.73E-07X	6.82E-07X	2.36E-04X	5.91E-04X
					86.0X	2.71E-07X	6.78E-07X		
					100.0X	2.68E-07X	6.71E-07X		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200,
AND 1600 M ARCS. NO TOLER SAMPLING.

SAMPLES AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES FROM THEIR ACTUAL POSITIONS

TEST W-12 OCTOBER 3, 1962 1301 TO 1302 PST ZINC SULFIDE RELEASE FROM ELEVATION OF 56M SMOILER HT 1.5M U= 3.0M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STDEV	COEFF	UNIT	AZIMUTH	F/R	EU/R	CI(E/R)	CI(EU/R)
DEGREES	DEG	DEG			DEG	SEC/CM,M	1/80,M	SEC/80,M	1/M
100	72.2X	22.06X	0.306X	2.168X	50.0 50.0 40.0	1.18E-05 1.17E-05 1.12E-05	4.02E-05 3.97E-05 3.87E-05	1.21E-03X	4.10E-03X
200	68.0?	26.87?	-0.247?	2.196?	60.0? 80.0? 80.0?	1.39E-05? 1.33E-05? 1.28E-05?	4.73E-05? 4.53E-05? 4.36E-05?	2.39E-03?	8.12E-03?
300	66.0X	26.49X	0.089X	2.102X	82.0 82.0 70.0	8.97E-06 8.82E-06 8.81E-06	3.05E-05 3.00E-05 3.00E-05	2.47E-03X	8.39E-03X
400	72.7X	26.73X	0.364X	2.635X	80.0 76.0 80.0	7.15E-06 5.49E-06 5.05E-06	2.43E-05 1.87E-05 1.72E-05	2.15E-03X	7.32E-03X
500	68.5X	31.05X	0.143X	2.286X	86.0 82.0 72.0	3.66E-06 3.50E-06 2.80E-06	1.20E-05 1.19E-05 9.65E-06	1.63E-03X	5.54E-03X
600	66.6?	34.02?	0.547?	2.083?	20.0? 60.0? 32.0?	2.53E-06? 1.88E-06? 1.86E-06?	8.60E-06? 6.39E-06? 6.33E-06?	1.05E-03?	3.56E-03?
800	75.6X	29.39X	0.173X	2.423X	82.0 85.0 76.0	1.20E-06 1.13E-06 1.07E-06	4.21E-06 3.86E-06 3.64E-06	7.69E-04X	2.61E-03X
1200	80.8X	22.01X	0.239X	2.165X	70.0 76.0 72.0	3.80E-07 3.35E-07 2.69E-07	1.29E-06 1.14E-06 9.10E-07	2.58E-04X	8.77E-04X
1600	73.0	20.15	0.724	2.926	72.0 70.0 50.0	1.87E-07 1.44E-07 1.40E-07	6.42E-07 4.90E-07 4.76E-07	1.60E-04	5.59E-04

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200,
AND 1600 M ARCS. NO TOWER SAMPLING. ALL ARCS EMBRACE THE CROSSWIND
EXTENT OF THE TRACER DISTRIBUTION.

SAMPLE AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES FROM THEIR ACTUAL POSITIONS

TEST #13 OCTOBER 8, 1962 1025 TO 1145 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M U=12.9M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/O	EU/O	CI(E/O)	CI(EU/O)
METERS	DEG	DEG			DEG	SEC/CM	1/80,M	SEC/80,M	1/M
100	81.2	19.69	0.579	2.937	74.0	5.44E-08	7.01E-07	2.86E-06	3.69E-05
					66.0	4.54E-08	5.85E-07		
					86.0	3.22E-08	4.15E-07		
200	71.7	28.71	0.894	2.552	68.0	2.32E-08	3.00E-07	2.90E-06	3.74E-05
					64.0	1.74E-08	2.25E-07		
					72.0	1.53E-08	1.97E-07		
300	72.1	24.02	0.788	3.275	50.0	4.59E-08	5.92E-07	5.47E-06	7.06E-05
					58.0	3.27E-08	4.22E-07		
					70.0	2.59E-08	3.34E-07		
400	62.7	10.66	1.960	12.306	56.0	3.74E-07	4.82E-06	5.20E-05	6.71E-04
					60.0	3.62E-07	4.67E-06		
					64.0	3.42E-07	4.41E-06		
500	64.4	10.07	2.033	10.777	62.0	1.18E-06	1.52E-05	1.29E-04	1.67E-03
					66.0	5.11E-07	6.60E-06		
					58.0	4.99E-07	6.43E-06		
600	62.2	6.76	0.973	5.381	60.0	1.81E-06	2.34E-05	2.52E-04	3.25E-03
					56.0	1.21E-06	1.56E-05		
					64.0	1.10E-06	1.42E-05		
800	62.2	5.96	0.351	3.112	61.0	3.22E-06	4.15E-05	5.73E-04	7.40E-03
					58.0	2.46E-06	3.18E-05		
					64.0	2.23E-06	2.88E-05		
1200	61.0	5.49	0.453	3.255	58.0	3.17E-06	4.08E-05	6.52E-04	8.41E-03
					60.0	2.96E-06	3.81E-05		
					56.0	1.59E-06	2.05E-05		
1600	61.7	5.25	0.239	2.804	58.0	1.78E-06	2.30E-05	5.95E-04	7.67E-03
					60.0	1.52E-06	1.96E-05		
					62.0	1.29E-06	1.67E-05		

2 INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200,
AND 1600 M ARCS. NO TOWER SAMPLING. ALL ARCS EMBRACE THE CROSSWIND
EXTENT OF THE TRACER DISTRIBUTION.

TEST U-14 OCTOBER 9, 1962 0940 TO 1040 PST

ZINC SULFIDE RELEASE FROM ELEVATION OF 56M

SAMPLER HT 1.5M

W 7.0M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/30,M	SEC/30,M	1/M
100	60.7	9.89	-0.149	2.164	64.0	7.39E-08	5.17E-07	2.58E-06	1.81E-05
					72.0	5.05E-08	3.54E-07		
					56.0	4.68E-08	3.28E-07		
200	51.2	7.58	-0.069	3.636	50.0	2.32E-07	1.62E-06	1.11E-05	7.78E-05
					54.0	1.74E-07	1.22E-06		
					58.0	9.98E-08	6.98E-07		
300	49.2	10.42	-0.851	4.421	48.0	1.48E-06	1.03E-05	1.52E-04	1.06E-03
					56.0	1.05E-06	7.38E-06		
					52.0	1.03E-06	7.22E-06		
400	53.4	7.08	-0.111	2.398	58.0	3.11E-06	2.18E-05	4.22E-04	2.95E-03
					50.0	2.92E-06	2.05E-05		
					54.0	2.63E-06	1.84E-05		
500	52.1	6.62	0.240	2.721	48.0	7.09E-06	4.96E-05	8.79E-04	6.15E-03
					52.0	5.02E-06	3.52E-05		
					56.0	4.37E-06	3.06E-05		
600	52.1	7.11	0.074	2.692	50.0	6.37E-06	4.46E-05	1.17E-03	8.19E-03
					54.0	5.39E-06	3.77E-05		
					46.0	4.97E-06	3.48E-05		
800	51.7	7.32	0.130	2.523	52.0	4.12E-06	2.89E-05	1.06E-03	7.40E-03
					49.0	3.89E-06	2.72E-05		
					55.0	3.06E-06	2.14E-05		
1200	50.4	6.20	0.146	2.830	50.0	2.42E-06	1.70E-05	7.54E-04	5.28E-03
					52.0	2.28E-06	1.59E-05		
					54.0	2.20E-06	1.54E-05		
1600	50.8	6.04	-0.070	2.598	52.0	1.72E-06	1.21E-05	5.72E-04	4.01E-03
					48.0	1.29E-06	9.01E-06		
					54.0	1.28E-06	8.93E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200,
AND 1600 M APCS. NO TOWER SAMPLING. 7 OF THE 9 ARCS EMBRACE THE
CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST H-15 NOVEMBER 5, 1962 1205 TO 1305 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M U= 9.5M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/O	EU/O	CI(E/O)	CI(EU/O)
METERS	DEG	DEG			DEG	SEC/CU.M	1/80.M	SEC/SQ.M	1/M
100	69.6X	21.27X	0.091X	1.609X	44.0X	2.89E-08X	2.75E-07X	1.74E-06X	1.65E-05X
					52.0X	2.49E-08X	2.37E-07X		
					72.0X	1.99E-08X	1.89E-07X		
200	85.2X	10.99X	0.251X	2.061X	74.0X	3.39E-08X	3.22E-07X	2.52E-06X	2.39E-05X
					78.0X	2.99E-08X	2.80E-07X		
					102.0X	2.49E-08X	2.37E-07X		
300	73.8	7.91	0.734	3.369	76.0	4.88E-08	4.64E-07	3.59E-06	3.41E-05
					72.0	4.29E-08	4.07E-07		
					68.0	3.59E-08	3.41E-07		
400	70.4	6.72	-0.108	3.581	70.0	4.53E-07	4.31E-06	2.86E-05	2.71E-04
					74.0	1.78E-07	1.69E-06		
					66.0	9.67E-08	9.18E-07		
500	68.2	7.19	0.345	3.552	72.0	6.41E-07	6.09E-06	7.35E-05	6.98E-04
					68.0	3.76E-07	3.57E-06		
					64.0	3.59E-07	3.41E-06		
600	67.1	7.56	-0.351	2.793	70.0	9.08E-07	9.00E-06	1.56E-04	1.48E-03
					66.0	7.40E-07	7.03E-06		
					74.0	5.53E-07	5.25E-06		
800	66.5	7.73	-0.205	2.095	70.0	7.01E-06	1.91E-05	4.10E-04	3.89E-03
					73.0	1.47E-06	1.40E-05		
					64.0	1.02E-06	9.69E-06		
1200	65.2	7.32	-0.177	2.122	68.0	2.16E-06	2.05E-05	6.26E-04	5.95E-03
					70.0	2.14E-06	2.04E-05		
					56.0	1.29E-06	1.22E-05		
1600	64.0	7.29	-0.366	1.955	66.0	1.30E-06	1.23E-05	5.21E-04	4.95E-03
					70.0	1.14E-06	1.08E-05		
					68.0	1.06E-06	1.00E-05		

7 INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200, AND 1600 M ARCS. NO TOWER SAMPLING. TRACER WAS NOT DETECTED ON THE 100 AND 200 M ARCS. ALL THE OTHER ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST H-16 NOVEMBER 5, 1962 1350 TO 1450 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M U= 8.4M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	PEAK	STAND. DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/80.M	SEC/80.M	1/M
300	56.1	17.45	0.809	3.468	44.0	1.91E-07	1.60E-06	1.49E-05	1.25E-04
					56.0	1.25E-07	1.05E-06		
					48.0	4.75E-08	3.99E-07		
400	53.7	7.74	1.531	7.833	54.0	5.47E-07	4.60E-06	5.03E-05	4.23E-04
					46.0	5.16E-07	4.33E-06		
					62.0	2.26E-07	1.92E-06		
500	49.3	10.71	-0.296	2.145	56.0	1.03E-06	8.66E-06	1.79E-04	1.51E-03
					52.0	7.88E-07	6.62E-06		
					36.0	5.80E-07	4.87E-06		
600	49.4	10.37	-0.426	2.385	54.0	1.97E-06	1.66E-05	3.24E-04	2.72E-03
					58.0	1.05E-06	8.84E-06		
					50.0	9.97E-07	8.36E-06		
800	47.4	12.02	0.144	2.090	49.0	9.35E-07	7.85E-06	2.75E-04	2.31E-03
					34.0	6.04E-07	5.07E-06		
					37.0	5.89E-07	4.95E-06		
1200	49.8	9.77	-0.474	2.836	54.0	1.98E-06	1.67E-05	5.01E-04	4.21E-03
					52.0	1.97E-06	1.66E-05		
					56.0	1.50E-06	1.26E-05		
1600	50.5	10.92	-0.725	3.486	54.0	7.79E-07	6.55E-06	4.31E-04	3.62E-03
					52.0	6.99E-07	5.87E-06		
					50.0	6.97E-07	5.86E-06		

Z INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 300, 400, 500, 600, 800, 1200,
AND 1600 M ARCS, NO TOPER SAMPLING. 5 OF THE 7 ARCS EMBRACE THE CROSSWIND
EXTENT OF THE TRACER DISTRIBUTION.

TEST U-17 NOVEMBER 9, 1962 1130 TO 1147 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M UR 8.91/SEC AT 56M									
DISTANCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND	
FROM	STAND	COEFFICIENT						INTEGRATED VALUES	
SOURCE	MEAN	DEV	SKEN	KURT	AZIMUTH	E/Q	FU/D	CI(E/Q)	CI(EU/Q)
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DEGREES	DEG	DEG			DEG	SEC/CM, M	1/30, M	SEC/30, M	1/M
300	45.7?	7.6??	1.720?	0.939?	40.0?	7.81E-07?	6.96E-06?	5.25E-05?	4.67E-04?
					40.0?	6.28E-07?	5.59E-06?		
					36.0?	3.29E-07?	2.93E-06?		
400	45.4?	6.22?	0.035?	2.365?	46.0?	2.28E-06?	2.03E-05?	2.88E-04?	2.56E-03?
					50.0?	2.20E-06?	1.96E-05?		
					42.0?	2.19E-06?	1.95E-05?		
500	46.7	5.87	-0.468	2.706	48.0	3.39E-06	3.02E-05	4.51E-04	4.01E-03
					52.0	3.15E-06	2.80E-05		
					44.0	2.75E-06	2.45E-05		
600	47.0	5.91	-0.290	2.767	50.0	4.66E-06	4.15E-05	6.53E-04	5.81E-03
					46.0	3.83E-06	3.41E-05		
					42.0	2.44E-06	2.17E-05		
800	45.9	5.09	-0.017	2.946	46.0	5.80E-06	5.16E-05	9.18E-04	8.17E-03
					49.0	4.54E-06	4.04E-05		
					43.0	3.62E-06	3.23E-05		
1200	45.4	4.41	0.329	2.833	46.0	3.03E-06	2.70E-05	5.15E-04	4.59E-03
					44.0	2.55E-06	2.27E-05		
					42.0	1.97E-06	1.75E-05		
1600	45.6	4.19	0.394	2.824	46.0	2.09E-06	1.86E-05	5.88E-04	5.24E-03
					42.0	1.81E-06	1.62E-05		
					44.0	1.77E-06	1.58E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLES AT 100, 200, 300, 400, 500, 600, 800, 1200 AND 1600 M ARCS, 10 MINUTE SAMPLING. TRACER WAS NOT DETECTED ON THE 100 AND 200 M ARCS. ALL OTHER ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST 10-1A NOVEMBER 9, 1962 1255 TO 1355 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M WIND VELOCITY 8.4M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	DEV	SKEN	KURT	AZIMUTH	E/M	EU/M	CITE/M	CITEU/M
REFERS	DEG	DEG			DEG	SEC/CLM	1/80, F	SEC/80, M	1/M
300	68.4	8.00	1.255	5.103	68.0 60.0 80.0	4.01E-08 3.15E-08 1.02E-08	3.37E-07 2.64E-07 8.53E-08	2.20E-06	1.85E-05
400	71.0	6.07	-0.391	4.562	70.0 74.0 62.0	3.18E-07 2.26E-07 1.18E-07	2.67E-06 1.98E-06 9.89E-07	2.60E-05	2.18E-04
500	71.7	6.06	-0.237	2.774	68.0 76.0 72.0	1.00E-06 8.02E-07 3.92E-07	8.44E-06 6.74E-06 3.30E-06	1.06E-04	8.90E-04
600	72.0	6.12	-1.080	6.665	74.0 78.0 70.0	1.47E-06 6.89E-07 6.57E-07	1.24E-05 5.79E-06 5.52E-06	1.65E-04	1.39E-03
800	70.7	5.80	-0.384	3.628	73.0 70.0 67.0	2.34E-06 2.09E-06 1.54E-06	1.97E-05 1.75E-05 1.29E-05	3.93E-04	3.30E-03
1200	69.5	6.49	-0.415	2.990	72.0 74.0 70.0	1.83E-06 1.27E-06 1.20E-06	1.54E-05 1.07E-05 1.01E-05	3.55E-04	2.98E-03
1600	69.0	6.58	-0.471	3.476	72.0 74.0 70.0	8.05E-07 7.48E-07 7.29E-07	6.76E-06 6.28E-06 6.12E-06	3.63E-04	3.05E-03

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200, 1600,
AND 3200 M AFCS. NO TOWER SAMPLING. NONE OF THE AFCS ENRACE THE CROSSWIND
EXTENT OF THE TRACER DISTRIBUTION.

TEST U-19 MARCH 15, 1963 1114 TO 1214 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M U= 9.7M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/90,M	SEC/90,M	1/M
100	45.4X	13.44X	-0.467X	1.979X	56.0X	3.89E-08X	1.83E-07X	1.14E-06X	5.37E-06X
					48.0X	2.27E-08X	1.07E-07X		
					52.0X	2.27E-08X	1.07E-07X		
200	59.5X	15.51X	-0.120X	2.218X	74.0X	5.75E-06X	2.70E-05X	6.99E-04X	3.28E-03X
					62.0X	5.60E-06X	2.63E-05X		
					70.0X	4.85E-06X	2.28E-05X		
300	53.4X	18.49X	0.172X	1.773X	32.0X	6.90E-06X	3.24E-05X	1.36E-03X	6.41E-03X
					36.0X	6.46E-06X	3.04E-05X		
					28.0X	5.02E-06X	2.74E-05X		
400	42.2X	25.36X	-0.327X	1.775X	14.0X	7.35E-06X	3.46E-05X	1.89E-03X	8.88E-03X
					18.0X	6.13E-06X	2.88E-05X		
					58.0X	4.17E-06X	1.96E-05X		
500	53.5X	20.33X	0.220X	1.801X	32.0X	6.30E-06X	2.96E-05X	1.37E-03X	6.45E-03X
					28.0X	5.87E-06X	2.76E-05X		
					64.0X	3.89E-06X	1.83E-05X		
600	54.2X	16.65X	0.059X	2.307X	30.0X	3.15E-06X	1.48E-05X	8.07E-04X	3.79E-03X
					62.0X	2.73E-06X	1.28E-05X		
					58.0X	2.73E-06X	1.28E-05X		
800	57.4X	20.72X	-0.035X	1.790X	28.0X	2.65E-06X	1.24E-05X	7.56E-04X	3.55E-03X
					67.0X	1.48E-06X	6.94E-06X		
					31.0X	1.34E-06X	6.29E-06X		
1200	50.3X	17.30X	0.309X	1.975X	30.0X	5.89E-07X	2.77E-06X	2.27E-04X	1.07E-03X
					52.0X	4.70E-07X	2.21E-06X		
					28.0X	4.60E-07X	2.16E-06X		
1600	58.1X	27.07X	0.702X	2.427X	28.0X	5.09E-07X	2.39E-06X	1.82E-04X	8.55E-04X
					32.0X	1.61E-07X	7.55E-07X		
					30.0X	1.39E-07X	6.52E-07X		
3200	79.3X	12.58X	0.140X	1.747X	99.0X	3.05E-08X	1.81E-07X	2.64E-05X	1.24E-04X
					60.0X	3.15E-08X	1.48E-07X		
					95.0X	2.58E-08X	1.21E-07X		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200, AND 1600
M ARCS. NO TOWER SAMPLING. ALL ARCS EMBRACE THE CROSSWIND EXTENT OF THE
TRACER DISTRIBUTION.

TEST U-20 MARCH 29, 1963 1139 TO 1229 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M U=10.8M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SG.M	SEC/SG.M	1/M
100	39.1	7.40	0.458	3.769	40.0	1.06E-05	1.15E-04	2.06E-04	2.22E-03
					36.0	1.00E-05	1.08E-04		
					20.0	5.20E-06	5.62E-05		
200	52.7	7.10	+0.481	1.852	50.0	6.06E-06	6.55E-05	1.49E-04	1.61E-03
					42.0	2.43E-06	2.63E-05		
					46.0	9.32E-07	1.01E-05		
300	54.2	8.87	+0.972	3.217	60.0	2.46E-06	2.66E-05	1.64E-04	1.77E-03
					56.0	1.29E-06	1.40E-05		
					40.0	1.26E-06	1.36E-05		
400	53.2	7.33	+0.582	3.167	50.0	1.34E-06	1.45E-05	1.77E-04	1.92E-03
					56.0	1.34E-06	1.45E-05		
					54.0	1.22E-06	1.32E-05		
500	53.7	6.02	0.095	2.787	52.0	2.68E-06	2.89E-05	3.42E-04	3.70E-03
					56.0	2.09E-06	2.26E-05		
					48.0	1.84E-06	1.98E-05		
600	54.0	5.38	0.020	2.386	54.0	3.50E-06	3.78E-05	5.60E-04	6.04E-03
					50.0	3.09E-06	3.34E-05		
					58.0	2.86E-06	3.08E-05		
800	54.3	5.30	-0.172	2.350	52.0	3.44E-06	3.76E-05	6.92E-04	7.47E-03
					55.0	3.02E-06	3.26E-05		
					58.0	2.85E-06	3.07E-05		
1200	53.4	4.86	+0.133	2.661	54.0	2.17E-06	2.35E-05	5.68E-04	6.13E-03
					50.0	1.95E-06	2.10E-05		
					56.0	1.83E-06	1.97E-05		
1600	53.4	5.27	-2.007	15.699	54.0	2.18E-06	2.35E-05	6.07E-04	6.56E-03
					56.0	1.73E-06	1.87E-05		
					52.0	1.34E-06	1.47E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200 AND
1600 M ARCS. NO FURTHER SAMPLING. TRACER WAS NOT DETECTED ON THE 100 AND
200 M ARCS. 7 OF THE 9 ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER
DISTRIBUTION.

TEST U-21 APRIL 8, 1963 1352 TO 1452 PST ZINC SULFIDE RELEASE FROM ELEVATION OF 56M SAMPLER HT 1.5M U= 8.3M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/30.M	SEC/30.M	1/M
300	40.0	4.47	-0.707	3.938	40.0	8.64E-08	7.18E-07	3.22E-06	2.67E-05
					44.0	2.77E-08	2.30E-07		
					32.0	1.24E-08	1.03E-07		
400	37.2	6.43	-0.567	3.491	38.0	6.81E-07	5.65E-06	6.31E-05	5.24E-04
					42.0	5.41E-07	4.49E-06		
					34.0	3.94E-07	3.27E-06		
500	37.3	7.73	-0.369	2.852	40.0	1.44E-06	1.20E-05	2.43E-04	2.02E-03
					36.0	1.36E-06	1.13E-05		
					32.0	1.19E-06	9.87E-06		
600	38.1	7.95	-0.381	3.009	38.0	2.85E-06	2.37E-05	4.51E-04	3.74E-03
					46.0	1.93E-06	1.60E-05		
					34.0	1.42E-06	1.18E-05		
800	36.6	8.32	-0.006	2.654	37.0	3.11E-06	2.59E-05	6.35E-04	6.93E-03
					34.0	2.90E-06	2.41E-05		
					40.0	2.83E-06	2.35E-05		
1200	37.1	8.08	0.004	2.427	34.0	2.48E-06	2.06E-05	8.87E-04	7.36E-03
					40.0	2.23E-06	1.85E-05		
					32.0	1.72E-06	1.43E-05		
1600	36.1	8.02	0.183	2.912	36.0	1.72E-06	1.43E-05	7.50E-04	6.23E-03
					34.0	1.37E-06	1.13E-05		
					38.0	1.31E-06	1.08E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200, AND
1600 M ARCS, NO TOWER SAMPLING, 2 OF 9 ARCS ENBRACE THE CROSSWIND EXTENT OF
THE TRACER DISTRIBUTION.

TEST U-22 APRIL 16, 1963 1010 TO 1107 PST								
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M								
SAMPLER HT 1.5M U ₁₀ 0.8M/SEC AT 56M								
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q) CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/80,M	SEC/80,M 1/M
100	43.0X	12.36X	-0.170X	1.467X	28.0X	1.15E-06X	5.54E-06X	2.72E-05X 1.31E-04X
					52.0X	9.13E-07X	4.38E-06X	
					48.0X	4.62E-07X	2.22E-06X	
200	45.0X	9.99X	0.278X	2.542X	50.0X	4.31E-06X	2.07E-05X	3.36E-04X 1.62E-03X
					46.0X	3.19E-06X	1.53E-05X	
					38.0X	3.01E-06X	1.44E-05X	
300	46.1X	15.63X	1.552X	5.413X	44.0X	5.69E-06X	2.73E-05X	7.80E-04X 3.74E-03X
					36.0X	5.48E-06X	2.63E-05X	
					32.0X	4.74E-06X	2.28E-05X	
400	50.3X	15.09X	1.203X	4.329X	50.0X	6.52E-06X	3.13E-05X	1.15E-03X 5.50E-03X
					46.0X	5.92E-06X	2.84E-05X	
					42.0X	4.74E-06X	2.28E-05X	
500	51.2X	13.99X	1.200X	4.733X	48.0	6.12E-06	2.94E-05	1.23E-03X 5.90E-03X
					44.0	5.03E-06	2.41E-05	
					40.0	4.47E-06	2.15E-05	
600	52.2X	13.06X	1.519X	5.853X	50.0	6.70E-06	3.22E-05	1.48E-03X 7.12E-03X
					46.0	6.29E-06	3.02E-05	
					42.0	5.55E-06	2.66E-05	
800	53.7X	13.61X	1.617X	5.826X	52.0	3.92E-06	1.88E-05	9.56E-04X 4.59E-03X
					49.0	3.82E-06	1.83E-05	
					46.0	3.42E-06	1.64E-05	
1200	52.4	11.85	1.348	5.714	52.0	6.77E-07	3.15E-06	2.61E-04 1.25E-03
					46.0	6.69E-07	3.21E-06	
					48.0	6.55E-07	3.14E-06	
1600	54.9	11.42	1.026	4.336	56.0	2.47E-07	1.19E-06	1.02E-04 4.92E-04
					54.0	2.09E-07	1.00E-06	
					48.0	1.62E-07	7.77E-07	

7 INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200, AND 1600 M ARCS. NO TOWER SAMPLING. ALL ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST H-23 APRIL 30, 1963 0851 TO 0938 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M W 4.4M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
100	78.8	6.79	-0.180	1.721	84.0	2.91E-08	1.28E-07	9.94E-07	4.37E-06
					80.0	2.81E-08	1.24E-07		
					72.0	2.78E-08	1.19E-07		
200	103.7	5.52	-3.899	19.063	106.0	8.33E-07	3.66E-06	1.69E-05	7.42E-05
					102.0	3.06E-07	1.34E-06		
					94.0	2.50E-08	1.10E-07		
300	101.0	6.84	-1.291	5.068	104.0	3.95E-06	1.74E-05	2.09E-04	9.19E-04
					100.0	2.35E-06	1.04E-05		
					104.0	9.82E-07	4.32E-06		
400	98.2	9.03	-0.957	3.654	102.0	7.67E-06	3.37E-05	6.33E-04	2.79E-03
					98.0	3.14E-06	1.38E-05		
					106.0	3.00E-06	1.32E-05		
500	95.8	10.41	-0.706	3.030	100.0	8.09E-06	3.56E-05	1.27E-03	5.59E-03
					96.0	7.19E-06	3.16E-05		
					104.0	4.89E-06	2.15E-05		
600	95.3	11.49	-0.569	2.632	98.0	6.52E-06	2.87E-05	1.47E-03	6.46E-03
					102.0	5.38E-06	2.37E-05		
					94.0	5.16E-06	2.27E-05		
800	95.2	11.34	-0.698	2.748	97.0	8.35E-06	3.67E-05	2.26E-03	9.96E-03
					100.0	7.66E-06	3.37E-05		
					103.0	6.63E-06	2.92E-05		
1200	94.3	9.87	-0.812	3.265	98.0	7.16E-06	3.15E-05	1.95E-03	8.58E-03
					96.0	6.28E-06	2.76E-05		
					94.0	5.56E-06	2.45E-05		
1600	92.6	11.52	-0.782	3.543	94.0	2.83E-06	1.25E-05	1.63E-03	7.16E-03
					102.0	2.75E-06	1.21E-05		
					98.0	2.57E-06	1.13E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200, AND 1600 M ARCS. NO TOWER SAMPLING. ALL ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST 1-24 MAY 2, 1963 1223 TO 1323 PST ZINC SULFIDE RELEASE FROM ELEVATION OF 56M SAMPLER HT 1.5M U = 8.0M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/30.M	SEC/30.M	1/M
100	52.7	30.22	0.702	2.204	24.0	6.87E-08	5.50E-07	1.57E-06	1.25E-05
					60.0	2.01E-08	1.61E-07		
					32.0	1.24E-08	9.95E-08		
200	76.3	15.72	-1.466	4.613	82.0	5.35E-07	4.28E-06	3.28E-05	2.62E-04
					78.0	4.54E-07	3.63E-06		
					90.0	2.65E-07	2.12E-06		
300	70.6	19.83	-0.488	2.244	80.0	6.52E-07	5.22E-06	1.21E-04	9.66E-04
					84.0	5.34E-07	4.27E-06		
					76.0	4.90E-07	3.92E-06		
400	64.1	18.40	0.323	2.352	54.0	1.75E-06	1.40E-05	3.08E-04	2.46E-03
					58.0	1.16E-06	9.24E-06		
					62.0	1.02E-06	8.18E-06		
500	58.7	16.21	0.798	3.518	56.0	2.36E-06	1.89E-05	4.35E-04	3.48E-03
					52.0	1.63E-06	1.30E-05		
					44.0	1.30E-06	1.04E-05		
600	56.9	14.28	1.177	5.004	54.0	2.87E-06	2.29E-05	6.12E-04	4.90E-03
					50.0	2.03E-06	1.63E-05		
					46.0	1.94E-06	1.55E-05		
800	54.6	12.57	0.837	4.762	46.0	1.60E-06	1.28E-05	5.15E-04	4.12E-03
					52.0	1.59E-06	1.27E-05		
					58.0	1.26E-06	1.01E-05		
1200	53.9	11.66	0.556	4.445	48.0	7.13E-07	5.71E-06	2.84E-04	2.30E-03
					52.0	6.36E-07	5.08E-06		
					46.0	5.66E-07	4.53E-06		
1600	53.7	11.18	0.599	3.636	46.0	3.41E-07	2.73E-06	1.97E-04	1.58E-03
					40.0	2.95E-07	2.38E-06		
					50.0	2.76E-07	2.21E-06		

7 INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200,
AND 1600 M ARCS. NO OTHER SAMPLING. THE TRACER WAS NOT DETECTED
IN THE 100 M ARC. NOTE OF THE ARC ENHANCE THE CROSSWIND EXTENT
OF THE TRACER DISTRIBUTION.

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES FROM THEIR ACTUAL POSITIONS

TEST D-25 MAY 7, 1963 1240 TO 1304 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M U= 3.7M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEN	KURT	AZIMUTH	E/O	EU/O	C1(E/O)	C1(EU/O)
METERS	DEG	DEG			DEG	SEC/CM	1/80.M	SEC/80.M	1/M
200	50.5X	29.49X	0.613X	2.080X	28.0X 32.0X 88.0X	8.24E-06X 5.45E-06X 5.34E-06X	3.05E-05X 2.02E-05X 1.98E-05X	9.94E-04X	3.68E-03X
300	47.7X	29.53X	1.296X	3.724X	34.0X 30.0X 50.0X	1.50E-05X 1.01E-05X 7.23E-06X	5.54E-05X 3.74E-05X 2.68E-05X	1.86E-03X	6.88E-03X
400	46.1X	28.71X	2.225X	7.413X	32.0X 40.0X 36.0X	9.30E-06X 8.32E-06X 7.37E-06X	3.44E-05X 3.08E-05X 2.73E-05X	1.58E-03X	5.83E-03X
500	40.4X	24.54X	2.658X	10.006X	34.0X 30.0X 38.0X	5.55E-06X 4.76E-06X 4.46E-06X	2.05E-05X 1.76E-05X 1.65E-05X	9.88E-04X	3.66E-03X
600	36.4X	20.31X	4.070X	21.880X	36.0 32.0 28.0	5.00E-06 4.67E-06 2.79E-06	1.85E-05 1.73E-05 1.03E-05	9.82E-04X	3.63E-03X
800	36.0X	14.50X	5.123X	41.422X	38.0 31.0 37.0	3.14E-06 3.04E-06 2.64E-06	1.16E-05 1.12E-05 9.91E-06	7.46E-04X	2.76E-03X
1200	44.7?	15.90?	4.093?	26.643?	42.0? 40.0? 48.0?	9.51E-07? 8.17E-07? 7.99E-07?	3.52E-06? 3.02E-06? 2.96E-06?	3.89E-04?	1.44E-03?
1600	42.4X	8.02X	0.545X	3.452X	52.0X 36.0X 38.0X	3.17E-07X 3.09E-07X 2.56E-07X	1.17E-06X 1.12E-06X 9.48E-07X	1.54E-04X	5.71E-04X

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUNDE LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200 AND 1600 M APCB. NO LOWER SAMPLING. TRACER WAS NOT DETECTED ON THE 100 M APCB. 7 OF THE 9 APCB ENBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 100 DEGREES FROM THEIR ACTUAL POSITIONS

TEST 1-26 JULY 24, 1963 1045 TO 1145 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
SAMPLER #1 1,5) UR 4.8M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	SEAM	DEV	SKEN	KLR1	AZIMUTH	E/G	EU/Q	CI(E/Q)	CI(EU/Q)
FEET	DEG	DEG			DEG	SEC/CU.M	1/SD.M	SEC/SG.M	1/M
200	144.0X	24.35X	-0.676X	2.868X	162.0 154.0 158.0	5.19E-06 4.06E-06 3.99E-06	2.49E-05 1.95E-05 1.91E-05	6.37E-04X	3.06E-03X
300	153.2	24.98	-0.115	2.309	140.0 148.0 144.0	4.94E-06 3.45E-06 3.36E-06	2.37E-05 1.66E-05 1.61E-05	1.02E-03	4.88E-03
400	152.8	24.30	-0.280	2.490	146.0 150.0 142.0	4.23E-06 3.52E-06 3.41E-06	2.03E-05 1.69E-05 1.63E-05	1.38E-03	6.63E-03
500	156.7	24.77	-0.276	2.385	164.0? 144.0? 166.0	3.30E-06? 3.15E-06? 2.66E-06	1.58E-05? 1.51E-05? 1.28E-05	1.34E-03	6.43E-03
600	155.6	23.27	-0.217	2.602	162.0 142.0 138.0?	2.21E-06 1.93E-06 1.69E-06?	1.06E-05 9.25E-06 8.13E-06?	9.22E-04	4.43E-03
800	156.6	23.33	0.027	2.140	140.0 143.0 137.0	9.88E-07 9.67E-07 8.22E-07	4.74E-06 4.64E-06 3.94E-06	5.41E-04	2.60E-03
1200	161.2?	22.55?	-0.269?	2.03E?	140.0? 156.0? 180.0?	6.00E-07? 4.27E-07? 3.83E-07?	2.88E-06? 2.05E-06? 1.84E-06?	3.43E-04?	1.65E-03?
1600	160.0	20.90	-0.026	1.751	176.0 140.0 174.0	1.42E-07 1.37E-07 1.36E-07	6.81E-07 6.55E-07 6.52E-07	1.42E-04	6.80E-04

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200,
AND 1600 M. ARES. NO TOWER SAMPLING. 5 OF THE 9 ARCS EMBRACE THE
THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES FROM THEIR ACTUAL POSITIONS

TEST 4-27 AUGUST 10, 1963 1250 TO 1350 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M U= 3.3M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METER	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/NO.M	1/M
100	58.0X	36.67X	0.336X	2.111X	10.0X	2.82E-05X	9.31E-05X	2.26E-03X	7.44E-03X
					14.0X	2.68E-05X	8.84E-05X		
					18.0X	2.23E-05X	7.35E-05X		
200	72.4X	35.92X	0.140X	1.930X	68.0	6.01E-06	1.98E-05	1.68E-03X	5.53E-03X
					44.0	5.97E-06	1.97E-05		
					72.0	5.31E-06	1.75E-05		
300	75.6X	29.68X	0.094X	2.300X	54.0	6.88E-06	2.14E-05	1.60E-03X	5.28E-03X
					94.0	6.16E-06	2.03E-05		
					58.0	4.20E-06	1.39E-05		
400	90.8X	28.75X	0.101X	2.301X	96.0	4.82E-06	1.59E-05	1.61E-03X	5.31E-03X
					92.0	4.44E-06	1.47E-05		
					88.0	3.96E-06	1.31E-05		
500	83.3	26.80	0.274	2.413	90.0	3.34E-06	1.10E-05	1.13E-03	3.73E-03
					94.0	2.73E-06	9.03E-06		
					70.0	2.20E-06	7.26E-06		
600	82.1	21.90	0.277	2.697	88.0	1.99E-06	6.56E-06	7.64E-04	2.52E-03
					92.0	1.51E-06	5.00E-06		
					76.0	1.34E-06	4.43E-06		
800	90.6	24.78	0.122	2.641	73.0	7.07E-07	2.33E-06	4.11E-04	1.36E-03
					91.0	5.96E-07	1.97E-06		
					98.0	5.71E-07	1.88E-06		
1200	86.5	18.61	0.710	3.297	84.0	2.95E-07	9.73E-07	1.83E-04	6.02E-04
					70.0	2.77E-07	9.15E-07		
					76.0	2.29E-07	7.55E-07		
1600	90.6	17.03	0.483	2.625	90.0	1.68E-07	5.55E-07	1.02E-04	3.38E-04
					72.0	1.25E-07	4.12E-07		
					88.0	1.02E-07	3.36E-07		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200 AND 1600 M ARCS. NO TOWER SAMPLING. TRACER WAS NOT DETECTED ON THE 100 AND 200 M ARCS. 7 OF THE 9 ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST U-28 OCTOBER 23, 1963 1009 TO 1109 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M WIND 8.4M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/B	EU/D	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/SQ.M	SEC/SQ.M	1/M
300	56.9	8.49	-0.018	1.697	48.0	1.14E-07	9.57E-07	1.24E-05	1.05E-04
					68.0	1.12E-07	9.45E-07		
					56.0	9.64E-08	8.10E-07		
400	58.1	8.45	0.250	2.563	50.0	5.11E-07	4.29E-06	8.24E-05	6.92E-04
					66.0	4.66E-07	3.91E-06		
					62.0	4.49E-07	3.77E-06		
500	58.5	8.60	0.509	2.462	56.0	1.69E-06	1.42E-05	2.64E-04	2.22E-03
					52.0	1.61E-06	1.35E-05		
					48.0	8.49E-07	7.13E-06		
600	57.5	9.10	0.479	2.649	54.0	2.36E-06	1.99E-05	4.01E-04	3.37E-03
					50.0	1.34E-06	1.13E-05		
					58.0	1.25E-06	1.05E-05		
800	57.2	9.08	0.554	2.699	52.0	3.91E-06	3.29E-05	1.02E-03	8.57E-03
					55.0	3.68E-06	3.09E-05		
					49.0	3.00E-06	2.52E-05		
1200	56.5	9.82	0.265	2.375	52.0	1.82E-06	1.53E-05	7.39E-04	6.21E-03
					54.0	1.31E-06	1.10E-05		
					56.0	1.24E-06	1.04E-05		
1600	56.5	9.57	0.211	2.310	62.0	8.12E-07	6.82E-06	4.44E-04	3.73E-03
					56.0	7.78E-07	6.53E-06		
					48.0	7.39E-07	6.21E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200, AND 1600 M APRES, AC TOWER SAMPLING. 8 OF 9 APRES ENBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

SA-PLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES FROM THEIR ACTUAL POSITIONS

TEST #22 OCTOBER 29, 1963 1419 TO 1519 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.6M U= 2.4M/SFC AT 56M									
DISTANCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND	
FROM	STAND	COEFFICIENT						INTEGRATED VALUES	
SOURCE	MEAN	DEV	SKEW	KURT	AZIMUTH	E/O	EU/O	CI(E/Q)	CI(EU/Q)
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AFTERS	DEG	DEG			DEG	SEC/CM	1/80.M	SEC/80.M	1/M
100	98.2X	28.96X	0.054X	1.651X	62.0X	7.30E-06X	1.75E-05X	5.29E-04X	1.27E-03X
					114.0X	5.52E-06X	1.32E-05X		
					66.0X	4.87E-06X	1.17E-05X		
200	118.5	16.93	-1.077	6.145	120.0	1.12E-05	2.68E-05	7.45E-04	1.79E-03
					116.0	5.77E-06	1.38E-05		
					112.0	5.17E-06	1.24E-05		
300	111.7	17.90	-0.080	2.415	122.0	7.63E-06	1.83E-05	1.42E-03	3.41E-03
					102.0	7.20E-06	1.73E-05		
					118.0	7.01E-06	1.68E-05		
400	108.2	18.09	-0.097	2.439	120.0	8.83E-06	2.12E-05	2.02E-03	4.84E-03
					116.0	6.97E-06	1.67E-05		
					108.0	6.52E-06	1.56E-05		
500	108.9	16.74	-0.075	2.831	106.0	7.80E-06	1.87E-05	2.20E-03	5.28E-03
					118.0	7.77E-06	1.87E-05		
					102.0	7.59E-06	1.82E-05		
600	109.1	14.90	-0.147	2.870	112.0	6.77E-06	1.63E-05	2.06E-03	4.94E-03
					104.0	5.21E-06	1.25E-05		
					116.0	5.15E-06	1.24E-05		
800	107.9	14.73	0.036	2.705	103.0	5.37E-06	1.29E-05	1.75E-03	4.20E-03
					115.0	3.98E-06	9.55E-06		
					112.0	3.33E-06	7.99E-06		
1200	109.0	14.19	0.007	2.837	106.0	1.34E-06	3.21E-06	4.28E-04	1.99E-03
					116.0	1.21E-06	2.89E-06		
					118.0	1.19E-06	2.86E-06		
1600	108.7	13.50	-0.072	2.907	106.0	1.95E-06	4.69E-06	1.09E-03	2.61E-03
					104.0	1.39E-06	3.33E-06		
					100.0	1.15E-06	2.77E-06		

2 INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200,
1600 AND 3200 M ARCS, NO TOWER SAMPLING. TRACER WAS NOT DETECTED ON
THE 100 M ARC, 8 OF THE 10 ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACEH
DISTRIBUTION.

TEST U-30 NOVEMBER 4, 1963 1445 TO 1545 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M U= 9.6M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/SQ,M	SEC/SQ,M	1/M
200	66.4	13.10	1.565	6.232	62.0	2.59E-08	2.49E-07	2.09E-06	2.00E-05
					70.0	1.82E-08	1.75E-07		
					58.0	1.50E-08	1.44E-07		
300	63.9	8.04	0.680	4.679	64.0	5.69E-08	5.46E-07	3.78E-06	3.63E-05
					68.0	4.32E-08	4.15E-07		
					52.0	2.69E-08	2.58E-07		
400	60.8	8.67	0.371	3.169	58.0	2.82E-07	2.70E-06	3.26E-05	3.13E-04
					62.0	1.74E-07	1.67E-06		
					54.0	1.62E-07	1.56E-06		
500	60.0	7.38	0.296	2.534	60.0	9.80E-07	9.41E-06	1.54E-04	1.48E-03
					56.0	9.40E-07	9.02E-06		
					52.0	7.33E-07	7.04E-06		
600	59.8	7.79	1.857	16.365	58.0	1.91E-06	1.84E-05	3.15E-04	3.02E-03
					54.0	1.58E-06	1.51E-05		
					62.0	1.38E-06	1.33E-05		
800	59.2	6.12	0.001	3.698	61.0	2.80E-06	2.69E-05	5.78E-04	5.55E-03
					58.0	2.80E-06	2.69E-05		
					55.0	2.41E-06	2.31E-05		
1200	58.9	5.69	0.632	3.955	58.0	2.11E-06	2.02E-05	4.85E-04	4.66E-03
					56.0	1.74E-06	1.67E-05		
					60.0	1.60E-06	1.54E-05		
1600	59.0	5.36	0.721	4.508	58.0	1.90E-06	1.82E-05	5.44E-04	5.22E-03
					54.0	1.34E-06	1.29E-05		
					62.0	1.19E-06	1.14E-05		
3200	63.9X	3.74X	0.887X	2.525X	61.0X	3.46E-07X	3.32E-06X	1.00E-04X	9.62E-04X
					60.0X	2.93E-07X	2.82E-06X		
					62.0X	2.62E-07X	2.51E-06X		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200, AND 1600 M ARCS. NO TOWER SAMPLING. TRACER WAS NOT DETECTED ON THE 100 M ARC. 8 OF THE 9 ARCS ENBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST U-31 NOVEMBER 19, 1963 1516 TO 1554 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M U=7.5M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/90,M	SEC/90,M	1/M
200	26.0	5.48	1.702	6.247	26.0	2.41E-07	1.81E-06	6.90E-06	5.17E-05
					22.0	9.87E-08	7.40E-07		
					42.0	3.51E-08	2.63E-07		
300	25.9	7.54	1.405	5.574	24.0	1.98E-06	1.48E-05	1.02E-04	7.67E-04
					28.0	9.52E-07	7.14E-06		
					20.0	7.02E-07	5.27E-06		
400	31.6	9.47	0.697	2.854	26.0	1.48E-06	1.11E-05	1.77E-04	1.33E-03
					30.0	1.04E-06	7.79E-06		
					22.0	1.01E-06	7.59E-06		
500	36.7	10.05	0.098	2.461	40.0	1.31E-06	9.82E-06	2.31E-04	1.73E-03
					36.0	9.72E-07	7.29E-06		
					28.0	8.63E-07	6.47E-06		
600	40.3	9.81	-0.134	2.381	42.0	1.61E-06	1.21E-05	3.18E-04	2.38E-03
					38.0	1.22E-06	9.15E-06		
					54.0	1.04E-06	7.82E-06		
800	39.9	8.85	-0.042	3.554	43.0	2.59E-06	1.94E-05	5.79E-04	4.34E-03
					40.0	2.20E-06	1.65E-05		
					37.0	1.82E-06	1.37E-05		
1200	40.4	12.46	0.012	4.801	40.0	1.36E-06	1.02E-05	5.04E-04	3.78E-03
					34.0	1.16E-06	8.68E-06		
					36.0	1.09E-06	8.18E-06		
1600	43.7	10.47	0.525	3.100	44.0	2.28E-06	1.71E-05	1.17E-03	8.79E-03
					46.0	1.81E-06	1.36E-05		
					38.0	1.81E-06	1.36E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200, AND 1600 M ARCS. NO DOWN SAMPLING. 7 OF 9 ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACE PL DISTRIBUTION.

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES FROM THEIR ACTUAL POSITIONS

TEST U-32 DECEMBER 26, 1963 1149 TO 1249 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M U= 9.7M/SEC AT 56M									
DISTANCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND	
FROM	MEAN	STAND	COEFFICIENT					INTEGRATED VALUES	
SOURCE	DEG	DEV	SKEW	KURT	AZIMUTH	E/O	EU/O	CI(E/O)	CI(EU/O)
METERS	DEG	DEG			DEG	SEC/CU.M	1/30.M	SEC/30.M	1/M
100	89.9	37.37	-0.036	1.954	130.0	3.82E-07	3.71E-06	2.33E-05	2.26E-04
					134.0	2.55E-07	2.47E-06		
					114.0	2.42E-07	2.35E-06		
200	90.8	40.62	-0.317	1.981	108.0	1.64E-07	1.59E-06	2.89E-05	2.81E-04
					68.0	1.40E-07	1.36E-06		
					92.0	1.29E-07	1.25E-06		
300	78.3	41.30	0.668	1.931	50.0	1.59E-07	1.55E-06	4.91E-06	4.76E-05
					46.0	1.52E-07	1.47E-06		
					54.0	1.43E-07	1.38E-06		
400	51.3	7.31	0.261	3.259	48.0	7.45E-07	7.22E-06	7.38E-05	7.16E-04
					56.0	5.05E-07	4.90E-06		
					44.0	4.48E-07	4.35E-06		
500	53.7	7.11	0.492	3.325	50.0	1.07E-06	1.03E-05	1.56E-04	1.53E-03
					54.0	9.06E-07	8.78E-06		
					58.0	8.18E-07	7.93E-06		
600	54.2	7.03	0.319	2.710	48.0	1.89E-06	1.84E-05	3.76E-04	3.65E-03
					56.0	1.66E-06	1.61E-05		
					52.0	1.63E-06	1.59E-05		
800	55.6	7.07	0.234	2.452	52.0	2.72E-06	2.63E-05	5.91E-04	5.73E-03
					61.0	2.39E-06	2.32E-05		
					49.0	2.09E-06	2.02E-05		
1200	57.3	6.60	-0.017	2.359	56.0	2.22E-06	2.15E-05	7.18E-04	6.97E-03
					58.0	2.11E-06	2.04E-05		
					52.0	2.10E-06	2.04E-05		
1600	57.6	6.47	1.533	13.737	56.0	1.98E-06	1.92E-05	7.81E-04	7.57E-03
					58.0	1.68E-06	1.59E-05		
					52.0	1.60E-06	1.55E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200, AND 1600 M ARCS. NO TOWER SAMPLING. ALL ARCS ENBRACE THE CROSSWIND EXTENT OF THE PLACER DISTRIBUTION.

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES FROM THEIR ACTUAL POSITIONS

TEST U-33 MARCH 12, 1964 1342 TO 1440 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M U= 8.7M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/30,M	SEC/30,M	1/M
100	54.3	13.85	1.218	4.581	42.0	7.12E-07	6.20E-06	3.10E-05	2.69E-04
					54.0	5.73E-07	4.98E-06		
					46.0	5.68E-07	4.94E-06		
200	62.6	12.46	1.007	3.703	60.0	1.69E-06	1.47E-05	8.62E-05	7.50E-04
					64.0	8.73E-07	7.60E-06		
					56.0	8.69E-07	7.56E-06		
300	69.0	12.63	0.370	2.771	58.0	1.14E-06	9.96E-06	1.70E-04	1.48E-03
					62.0	1.04E-06	7.08E-06		
					74.0	8.44E-07	7.35E-06		
400	73.0	12.07	-0.227	2.347	76.0	1.85E-06	1.61E-05	3.15E-04	2.74E-03
					84.0	1.74E-06	1.51E-05		
					72.0	1.36E-06	1.18E-05		
500	75.5	10.88	-0.317	3.009	78.0	2.88E-06	2.50E-05	5.62E-04	4.89E-03
					82.0	2.66E-06	2.31E-05		
					86.0	2.28E-06	1.99E-05		
600	75.1	11.63	-0.213	2.728	76.0	1.94E-06	1.69E-05	5.28E-04	4.59E-03
					84.0	1.90E-06	1.65E-05		
					80.0	1.47E-06	1.27E-05		
800	74.9	12.83	-0.290	7.388	70.0	1.49E-06	1.29E-05	5.59E-04	4.86E-03
					79.0	1.41E-06	1.22E-05		
					82.0	1.40E-06	1.22E-05		
1200	74.2	10.31	-0.166	2.423	70.0	1.09E-06	9.49E-06	4.72E-04	4.10E-03
					86.0	9.38E-07	8.16E-06		
					70.0	8.72E-07	7.58E-06		
1600	73.4	11.78	-0.177	3.452	74.0	3.19E-07	2.77E-06	2.86E-04	1.79E-03
					78.0	2.95E-07	2.56E-06		
					80.0	2.35E-07	2.05E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200,
1600 AND 3200 M ARCS, NO TOWER SAMPLING, 3 OF THE 10 ARCS EMBRACE
THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST W-7A OCTOBER 4, 1964 1452 TO 1523 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M WIND 7.0M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEN	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	CEG			DEG	SEC/CU.M	1/30.M	SEC/30.M	1/M
100	102.4X	15.56X	-1.227X	3.506X	112.0X 104.0X 120.0X	2.51E-07X 1.50E-07X 7.50E-08X	1.76E-06X 1.05E-06X 5.30E-07X	6.05E-06X	4.24E-05X
200	89.5	12.89	0.315	2.348	90.0 78.0 62.0	3.44E-07 3.21E-07 3.09E-07	2.41E-06 2.25E-06 2.16E-06	3.61E-05	2.52E-04
300	83.9X	11.07X	0.326X	3.719X	92.0 80.0 68.0	9.28E-07 7.35E-07 6.42E-07	6.50E-06 5.14E-06 4.49E-06	1.05E-04X	7.32E-04X
400	89.9X	11.49X	-0.093X	4.113X	98.0 94.0 90.0	3.27E-06 2.79E-06 2.21E-06	2.29E-05 1.95E-05 1.55E-05	4.08E-04X	2.85E-03X
500	89.4X	11.03X	0.201X	4.091X	92.0 88.0 100.0	3.84E-06 3.68E-06 2.30E-06	2.69E-05 2.58E-05 1.61E-05	6.03E-04X	4.22E-03X
600	87.3X	11.48X	0.536X	4.134X	90.0 78.0 98.0	3.09E-06 2.42E-06 1.78E-06	2.17E-05 1.69E-05 1.25E-05	6.11E-04X	4.28E-03X
800	85.9X	10.99X	0.302X	3.998X	82.0 88.0 91.0	1.87E-06 1.38E-06 1.34E-06	1.31E-05 9.64E-06 9.36E-06	5.04E-04X	3.53E-03X
1200	86.0	11.30	-0.269	3.638	82.0 80.0 84.0	6.52E-07 5.64E-07 5.56E-07	4.56E-06 3.94E-06 3.89E-06	2.90E-04	2.03E-03
1600	86.9	10.42	-0.134	3.495	86.0 82.0 92.0	4.12E-07 3.48E-07 3.17E-07	2.88E-06 2.44E-06 2.22E-06	2.09E-04	1.46E-03
3200	90.1X	9.66X	-1.464X	4.643X	95.0X 98.0X 94.0X	1.01E-07X 8.99E-08X 7.83E-08X	7.05E-07X 6.30E-07X 5.48E-07X	5.36E-05X	3.75E-04X

Z INDICATES UNCERTAINTIES IN DATA.

Y INDICATES NO VALUE OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 700, 800,
1000, 1200 AND 1400 M APCS. NO TOWER SAMPLING. 10 OF THE 11 APC9
ENRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST U-15 JULY 8, 1964 1405 TO 1431 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M WIND 9.2M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/O	EU/L	CI(E/O)	CI(EU/O)
METERS	DEG	DEG			DEG	SEC/CU.M	1/30.M	SEC/30.M	1/M
100	91.7X	11.57X	0.601X	2.694X	88.0X 76.0X 84.0X	3.46E-08X 3.12E-08X 2.99E-08X	3.19E-07X 2.87E-07X 2.75E-07X	1.31E-06X	1.21E-05X
200	81.7	13.66	0.647	2.757	86.0 66.0 70.0	9.85E-08 5.79E-08 3.02E-08	9.06E-07 5.33E-07 2.78E-07	4.27E-06	3.93E-05
300	79.3	11.96	-0.261	2.997	84.0 72.0 68.0	6.26E-07 8.03E-07 5.27E-07	5.76E-06 5.55E-06 4.85E-06	8.83E-05	8.12E-04
400	74.8	11.27	-0.322	4.060	74.0 78.0 90.0	2.51E-06 1.56E-06 1.46E-06	2.31E-05 1.44E-05 1.34E-05	3.43E-04	3.15E-03
500	72.4	13.08	-0.311	2.762	76.0 68.0 72.0	3.30E-06 2.29E-06 1.96E-06	3.04E-05 2.10E-05 1.81E-05	6.45E-04	5.93E-03
600	71.4?	16.94?	-0.357?	1.667?	78.0 90.0 86.0	1.29E-06 1.06E-06 9.72E-07	1.19E-05 9.74E-06 8.94E-06	3.61E-04?	3.32E-03?
700	71.2	13.05	-0.413	2.762	68.0 72.0 76.0	2.00E-06 1.87E-06 1.60E-06	1.84E-05 1.72E-05 1.48E-05	6.72E-04	6.18E-03
800	74.1	12.30	-0.301	2.786	67.0 70.0 73.0	2.43E-06 1.85E-06 1.62E-06	2.23E-05 1.70E-05 1.49E-05	6.96E-04	6.41E-03
1000	71.3	12.09	0.065	2.481	67.0 75.0 73.0	1.92E-06 1.06E-06 9.55E-07	1.77E-05 9.77E-06 8.78E-06	4.06E-04	3.73E-03
1200	72.1	12.89	-0.133	2.436	66.0 68.0 76.0	1.13E-06 9.99E-07 7.94E-07	1.04E-05 9.19E-06 7.31E-06	4.55E-04	4.19E-03
1400	72.6	11.00	-0.146	3.461	68.0 66.0 74.0	5.32E-07 4.26E-07 3.77E-07	4.89E-06 3.92E-06 3.47E-06	2.47E-04	2.27E-03

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND SAMPLING AT 100, 200, 300, 400, 500, 600, 700, 800, 1000,
1200, AND 1600 METERS, NO TOWER SAMPLING, 4 OF THE 11 ARCS EMBRACE
THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST U-36 OCTOBER 8, 1964 1310 TO 1335 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M									
SAMPLER HT 1.5M U=3.6M/SEC AT 26M									
DISTANCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND	
FROM	MEAN	STAND	COEFFICIENT					INTEGRATED VALUES	
SOURCE	MEAN	DEV	SKWK	KURT	AZIMUTH	E/O	EU/O	CI(E/O)	CI(EU/O)
REFWQ	DEG	DEG			DEG	SFC/CM	1/80,M	SEC/80,M	1/M
100	74.4X	25.96X	0.168X	1.824X	56.0? 52.0? 48.0?	3.68E-05? 2.64E-05? 2.09E-05?	1.32E-04? 9.52E-05? 7.51E-05?	1.86E-03X	6.69E-03X
200	77.5X	23.20X	0.397X	2.128X	50.0X 74.0X 78.0X	2.70E-05X 2.65E-05X 2.58E-05X	9.71E-05X 9.52E-05X 9.30E-05X	4.81E-03X	1.73E-02X
300	72.0X	21.31X	0.605X	2.601X	84.0 80.0 48.0	2.03E-05 1.72E-05 1.63E-05	7.31E-05 6.19E-05 5.86E-05	4.16E-03X	1.50E-02X
400	68.4X	20.33X	1.040X	3.403X	46.0? 50.0? 58.0?	1.53E-05? 1.13E-05? 8.84E-06?	5.52E-05? 4.08E-05? 3.18E-05?	2.58E-03X	9.29E-03X
500	64.4X	19.92X	1.055X	3.515X	44.0? 48.0? 52.0?	8.97E-06? 7.40E-06? 6.46E-06?	3.23E-05? 2.66E-05? 2.33E-05?	2.13E-03X	7.66E-03X
600	64.1X	21.69X	1.074X	3.430X	46.0? 42.0? 50.0?	6.45E-06? 4.72E-06? 4.09E-06?	2.32E-05? 1.70E-05? 1.47E-05?	1.70E-03X	6.13E-03X
700	59.5	16.36	0.576	2.258	44.0 48.0 40.0	4.47E-06 3.53E-06 2.49E-06	1.61E-05 1.27E-05 8.65E-06	1.26E-03	4.58E-03
800	63.1X	22.65X	1.000X	2.935X	46.0? 43.0? 49.0?	4.33E-06? 3.74E-06? 2.13E-06?	1.56E-05? 1.35E-05? 7.68E-06?	1.24E-03X	4.45E-03X
1000	59.0	17.62	0.933	3.002	45.0 43.0 47.0	1.77E-06 1.38E-06 1.03E-06	6.37E-06 4.95E-06 3.70E-06	4.29E-04	1.54E-03
1200	60.7	17.86	0.881	3.111	48.0 78.0 44.0	6.98E-07 6.91E-07 6.89E-07	2.51E-06 2.49E-06 2.48E-06	3.74E-04	1.35E-03
1600	56.0	16.07	1.116	3.567	50.0 44.0 46.0	3.87E-07 3.63E-07 3.48E-07	1.39E-06 1.31E-06 1.25E-06	1.87E-04	6.74E-04

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 700, 800, 1200, 1600, AND 3200 M ARCS. NO TOWER SAMPLING. THE TRACER WAS NOT DETECTED ON THE 100 OR 200 M ARCS. ALL THE OTHER ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. SOME FILTERS ASPIRATED A VERY SHORT TIME.

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES FROM THEIR ACTUAL POSITIONS

TEST U-37 NOVEMBER 11, 1964 1157 TO 1250 PST

ZINC SULFIDE RELEASE FROM ELEVATION OF 111M

SAMPLER HT 1.5M WIND 4.5M/SEC AT 111M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/R	EU/R	CI(E/R)	CI(EU/R)
METERS	DEG	DEG			DEG	SEC/CU.M	1/30.M	SEC/30.M	1/M
300	64.2	18.09	-0.229	1.932	86.0	7.39E-07	3.33E-06	6.21E-05	2.79E-04
					54.0	3.61E-07	1.63E-06		
					50.0	3.44E-07	1.55E-06		
400	50.9	20.29	0.152	1.437	28.0	1.24E-06	5.59E-06	1.48E-04	6.67E-04
					32.0	7.15E-07	3.22E-06		
					72.0	5.22E-07	2.35E-06		
500	42.8	15.89	0.810	2.235	30.0	2.59E-06	1.17E-05	2.81E-04	1.26E-03
					38.0	1.63E-06	7.35E-06		
					70.0	7.79E-07	3.51E-06		
600	55.9	20.59	-0.127	1.332	32.0	2.54E-06	1.14E-05	5.73E-04	2.58E-03
					72.0	2.22E-06	1.00E-05		
					76.0	1.96E-06	8.82E-06		
700	47.1?	16.08?	0.362?	1.931?	30.0?	2.32E-06?	1.05E-05?	4.68E-04?	2.11E-03?
					34.0?	1.80E-06?	8.10E-06?		
					70.0?	1.35E-06?	6.09E-06?		
800	65.0	16.16	-0.937	3.055	73.0	2.25E-06	1.01E-05	6.70E-04	3.02E-03
					61.0	2.06E-06	9.25E-06		
					76.0	1.86E-06	8.36E-06		
1200	63.1	17.08	-0.106	2.034	60.0	1.54E-06	6.95E-06	7.21E-04	3.24E-03
					58.0	1.40E-06	6.29E-06		
					78.0	1.09E-06	4.89E-06		
1600	68.7	14.60	-0.125	2.200	60.0	8.79E-07	3.96E-06	5.69E-04	2.56E-03
					76.0	7.48E-07	3.37E-06		
					62.0	6.80E-07	3.06E-06		
3200	70.1?	14.94?	-0.133?	1.602?	49.0?	2.22E-07?	1.00E-06?	2.40E-04?	1.00E-03?
					50.0?	2.12E-07?	9.56E-07?		
					51.0?	2.11E-07?	9.49E-07?		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 700, 800, 1000, 1200 AND 1600 M ARCS. NO TOWER SAMPLING, 1 OF THE 11 ARCS ENCOMPASS THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST U-38 AUGUST 2, 1965 1050 TO 1108 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M									
SAMPLER HT 1.5M U=10.5M/SEC AT 26M									
DISTANCE FROM SOURCE	CROSSWIND MEAN	STANDARD DEVIATION	DISTRIBUTION COEFFICIENT	THREE MAXIMUM EXPOSURES	CROSSWIND INTEGRATED VALUES				
				AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)	
METERS	DEG	DEG		DEG	SEC/CU.M	1/30.M	SEC/30.M	1/M	
100	197.4X	7.14X	-0.387X	2.333X	108.0X 2.08E-05X 2.19E-04X 112.0X 1.58E-05X 1.66E-04X 116.0X 9.87E-06X 1.04E-04X		5.19E-04X	5.45E-03X	
200	105.6X	9.73X	0.094X	2.028X	102.0X 2.89E-05X 3.03E-04X 106.0X 2.87E-05X 3.01E-04X 94.0X 2.85E-05X 2.99E-04X		2.76E-03X	2.90E-02X	
300	101.2X	6.33X	0.886X	4.264X	104.0? 2.02E-05? 2.12E-04? 100.0? 1.93E-05? 2.02E-04? 96.0? 1.49E-05? 1.56E-04?		1.47E-03X	1.54E-02X	
400	111.4X	7.09X	-0.924X	3.934X	110.0X 1.35E-05X 1.42E-04X 118.0X 9.10E-06X 9.56E-05X 114.0X 6.35E-06X 6.67E-05X		1.10E-03X	1.15E-02X	
500	105.8X	8.02X	0.330X	2.057X	100.0X 9.33E-06X 9.80E-05X 108.0X 9.31E-06X 9.77E-05X 96.0X 6.77E-06X 7.10E-05X		1.51E-03X	1.58E-02X	
600	104.9X	7.57X	0.237X	1.882X	98.0 7.44E-06 7.81E-05 102.0 5.98E-06 6.27E-05 110.0 5.19E-06 5.44E-05		1.44E-03X	1.52E-02X	
700	105.1X	7.20X	-0.011X	2.152X	100.0 5.17E-06 5.43E-05 112.0 4.22E-06 4.43E-05 104.0 3.52E-06 3.70E-05		1.14E-03X	1.19E-02X	
800	105.3X	6.95X	0.050X	2.112X	100.0 4.70E-06 4.93E-05 112.0 3.88E-06 4.08E-05 97.0 3.34E-06 3.50E-05		1.01E-03X	1.06E-02X	
1000	104.0X	7.12X	0.288X	1.785X	99.0 2.74E-06 2.87E-05 101.0 1.92E-06 2.01E-05 97.0 1.90E-06 2.00E-05		5.84E-04X	6.13E-03X	
1200	104.5	7.31	0.29X	1.724	96.0 1.34E-06 1.40E-05 100.0 1.33E-06 1.40E-05 108.0 6.32E-07 5.64E-06		2.73E-04	2.87E-03	
1600	97.2? 24.56?	-2.642?	9.176?		96.0? 7.01E-07? 7.36E-06? 110.0? 4.25E-07? 4.46E-06? 112.0? 3.73E-07? 3.92E-06?		2.16E-04?	2.26E-03?	

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 800, 1200, AND 1600 M ARCS. NO TOWER SAMPLING. 9 OF THE 10 ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST U-39 AUGUST 12, 1965 0949 TO 1041 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M UC 4.8M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/O	EU/O	CI(E/O)	CI(EU/O)
METERS	DEG	DEG			DEG	SEC/CM	1/30.M	SEC/30.M	1/M
100	83.9X	24.53X	-0.725X	3.069X	84.0X 100.0X 96.0X	2.18E-07X 2.07E-07X 1.93E-07X	1.05E-06X 9.94E-07X 9.26E-07X	.80E-05X	0.66E-05X
200	71.6	22.41	-0.169	2.948	66.0 82.0 70.0	2.58E-07 2.30E-07 2.12E-07	1.24E-06 1.10E-06 1.02E-06	3.68E-05	1.86E-04
300	70.7	23.11	0.018	2.460	76.0 80.0 64.0	2.93E-07 1.94E-07 1.55E-07	1.41E-06 9.29E-07 7.45E-07	5.06E-05	2.43E-04
400	69.0	26.14	0.420	2.075	50.0 58.0 114.0	1.74E-07 1.43E-07 1.35E-07	8.33E-07 6.85E-07 6.47E-07	5.03E-05	2.41E-04
500	54.5	18.45	1.319	4.661	48.0 74.0 56.0	9.08E-07 3.00E-07 2.85E-07	1.96E-06 1.44E-06 1.37E-06	8.68E-05	4.17E-04
600	52.1	17.72	1.634	6.102	50.0 46.0 42.0	4.58E-07 3.68E-07 3.06E-07	2.20E-06 1.77E-06 1.47E-06	1.08E-04	5.21E-04
700	47.6	13.41	2.440	11.478	48.0 44.0 52.0	1.12E-06 9.82E-07 4.94E-07	5.39E-06 4.71E-06 2.37E-06	2.30E-04	1.10E-03
800	47.1	11.95	1.928	9.630	46.0 43.0 49.0	8.96E-07 8.32E-07 7.50E-07	4.25E-06 3.99E-06 3.60E-06	2.46E-04	1.18E-03
1200	46.1	9.22	0.837	5.072	48.0 44.0 42.0	4.61E-07 2.82E-07 2.14E-07	2.21E-06 1.35E-06 1.03E-06	1.21E-04	5.81E-04
1600	46.8	7.95	0.332	3.319	48.0 44.0 44.0	5.13E-07 4.18E-07 3.68E-07	2.46E-06 2.91E-06 1.77E-06	2.09E-04	1.00E-03

? INDICATES UNCERTAINTIES IN DATA.

* INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLED AT 100, 200, 300, 400, 500, 600, 700, 800,
1200, 1600 AND 3200 METERS. FOR EACH SAMPLING, ALL ARES ENHANCE
THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST 0-40 SEPTEMBER 14, 1965 1131 TO 1220 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M U=11.1M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STDEV	COEFFICIENT		AZIMUTH	E/W	EU/D	CI(E/W)	CI(EU/D)
METERS	DEG	DEG	SKEN	KURY	DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
100	67.0	24.33	0.633	2.259	44.0 48.0 68.0	4.71E-08 2.60E-08 1.66E-08	5.55E-07 3.06E-07 1.96E-07	1.57E-06	1.85E-05
200	77.8	18.60	-0.184	2.316	86.0 90.0 82.0	2.01E-08 1.83E-08 1.66E-08	2.37E-07 2.16E-07 1.96E-07	2.59E-06	3.06E-05
300	59.4	14.53	0.618	2.426	52.0 48.0 60.0	3.67E-08 3.49E-08 3.32E-08	4.33E-07 4.12E-07 3.92E-07	4.96E-06	5.86E-05
400	53.0	9.18	1.157	9.428	54.0 50.0 58.0	2.99E-07 2.98E-07 1.54E-07	3.53E-06 3.52E-06 1.82E-06	2.82E-05	3.33E-04
500	51.0	5.02	0.036	2.696	48.0 52.0 56.0	6.00E-07 5.46E-07 4.82E-07	7.08E-06 6.44E-06 5.69E-06	7.49E-05	8.84E-04
600	51.5	5.61	0.373	3.434	54.0 46.0 50.0	1.12E-06 1.00E-06 8.77E-07	1.33E-05 1.18E-05 1.04E-05	1.68E-04	1.99E-03
700	50.2	4.28	0.213	2.623	48.0 52.0 56.0	2.03E-06 1.43E-06 1.17E-06	2.39E-05 1.68E-05 1.38E-05	2.73E-04	3.23E-03
800	51.4	5.35	0.351	2.659	49.0 52.0 46.0	1.78E-06 1.58E-06 1.55E-06	2.10E-05 1.87E-05 1.83E-05	3.83E-04	4.28E-03
1200	51.3	5.59	0.216	2.101	46.0 48.0 54.0	7.40E-07 6.80E-07 5.86E-07	8.73E-06 8.02E-06 6.92E-06	2.16E-04	2.54E-03
1600	51.5	5.39	0.135	1.977	48.0 46.0 50.0	9.47E-07 9.31E-07 8.37E-07	1.12E-05 1.10E-05 9.88E-06	3.98E-04	4.69E-03
3200	54.7	2.48	0.328	2.268	54.0 52.0 53.0	1.13E-07 1.09E-07 9.20E-08	1.33E-06 1.28E-06 1.09E-06	3.64E-05	4.30E-04

7 INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 700, 800,
1200, AND 1600 - ARCS. NO TOWER SAMPLING. ALL ARCS EMBRACE THE
CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES FROM THEIR ACTUAL POSITIONS

TEST H-41 OCTOBER 5, 1965 1118 TO 1146 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M									
SAMPLER HT 1.5M UH A.M/SEC AT 26M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1-TERS	DEG	DEG			DEG	SEC/CM	1/30.M	SEC/30.M	1/M
100	78.5	14.94	1.910	9.347	78.0 62.0 94.0	3.60E-06 1.93E-06 1.12E-06	3.17E-05 1.70E-05 9.84E-06	6.90E-05	6.07E-04
200	74.4	12.00	0.880	10.389	76.0 80.0 68.0	4.57E-06 3.87E-06 3.87E-06	4.02E-05 3.41E-05 3.40E-05	3.38E-04	2.97E-03
300	76.3	7.80	0.981	7.490	74.0 78.0 82.0	6.68E-06 4.79E-06 3.83E-06	5.87E-05 4.21E-05 3.37E-05	5.13E-04	4.51E-03
400	74.8	7.76	0.513	3.326	68.0 72.0 76.0	4.09E-06 4.03E-06 4.02E-06	3.60E-05 3.55E-05 3.54E-05	6.20E-04	5.46E-03
500	74.9	8.21	0.457	3.111	74.0 66.0 70.0	3.95E-06 3.41E-06 2.64E-06	3.48E-05 3.00E-05 2.32E-05	6.42E-04	5.65E-03
600	75.2	8.58	0.599	2.928	68.0 76.0 72.0	3.26E-06 2.09E-06 2.00E-06	2.87E-05 1.84E-05 1.76E-05	5.39E-04	4.75E-03
700	76.4	9.94	0.575	3.449	74.0 66.0 78.0	2.12E-06 1.33E-06 1.32E-06	1.87E-05 1.17E-05 1.16E-05	4.57E-04	4.02E-03
800	77.0	10.00	1.205	6.675	76.0 73.0 70.0	1.74E-06 1.64E-06 1.51E-06	1.53E-05 1.44E-05 1.33E-05	4.66E-04	4.10E-03
1200	76.4	8.38	-0.168	2.299	82.0 72.0 74.0	3.49E-07 3.45E-07 3.02E-07	3.07E-06 3.03E-06 2.66E-06	1.38E-04	1.22E-03
1600	73.5	12.55	-0.909	5.463	72.0 74.0 78.0	5.50E-07 4.95E-07 4.26E-07	4.84E-06 4.36E-06 3.75E-06	2.64E-04	2.32E-03

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 400, 500, 600, 700, 800, 1200, 1600
AND 3200 METERS. NO TOWER SAMPLING. ALL ARCS EMBRACE THE CROSSWIND
EXTENT OF THE TRACER DISTRIBUTION.

TEST H-402 NOVEMBER 4, 1965 1140 TO 1235 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M WS 9.5M/SEC AT 56M

DISTANCE FROM SOURCE	CROSS WIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEN	KURT	AZIMUTH	E/G	EU/D	CI(E/D)	CI(EU/D)
METERS	DEG	DEG			DEG	SEC/CM	1/SQ.M	SEC/CM	1/M
400	61.2	4.76	-0.008	2.472	58.0	4.18E-07	4.01E-06	4.72E-05	4.93E-04
					62.0	3.37E-07	3.24E-06		
					66.0	3.20E-07	3.07E-06		
500	62.8	4.25	-0.306	2.421	60.0	9.13E-07	8.77E-06	1.20E-04	1.15E-03
					60.0	6.64E-07	6.38E-06		
					64.0	6.56E-07	6.30E-06		
600	63.6	5.56	-0.565	3.485	66.0	3.05E-06	2.93E-05	3.74E-04	3.59E-03
					62.0	2.06E-06	1.98E-05		
					70.0	1.35E-06	1.30E-05		
700	63.6	5.64	-0.502	3.314	64.0	3.22E-06	3.10E-05	5.11E-04	4.91E-03
					68.0	2.65E-06	2.54E-05		
					60.0	1.98E-06	1.90E-05		
800	64.2	4.69	0.067	5.092	64.0	3.69E-06	3.54E-05	4.07E-04	4.68E-03
					67.0	2.15E-06	2.06E-05		
					70.0	1.26E-06	1.21E-05		
1200	62.5	5.96	-0.224	3.027	64.0	1.82E-06	1.75E-05	4.59E-04	4.41E-03
					66.0	1.58E-06	1.51E-05		
					60.0	1.36E-06	1.31E-05		
1600	63.0	5.33	-0.353	3.148	64.0	2.01E-06	1.93E-05	6.16E-04	5.92E-03
					62.0	1.66E-06	1.60E-05		
					66.0	1.57E-06	1.51E-05		
3200	62.5	4.83	-0.233	3.031	60.0	2.90E-07	2.79E-06	1.72E-04	1.66E-03
					62.0	2.59E-07	2.49E-06		
					61.0	2.56E-07	2.45E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 700, 800,
1200 AND 1600 M. ARCS, NO TOWER SAMPLING. ALL ARCS EMBRACE THE
CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST P-43 NOVEMBER 19, 1965 1500 TO 1620 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M									
SAMPLER HT 1.5M WS 6.5M/SEC AT 26M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STDEV	COEFFICIENT	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/30,M	SEC/30,M	1/M
100	24.0?	3.16?	2.910?	10.950?	24.0?	1.04E-05?	6.76E-05?	7.98E-05?	5.19E-04?
					36.0?	7.58E-07?	4.92E-06?		
					32.0?	1.47E-07?	9.54E-07?		
200	27.0?	3.37?	-0.329?	4.010?	26.0?	1.27E-06?	8.23E-06?	3.17E-05?	2.06E-04?
					30.0?	4.24E-07?	4.06E-06?		
					34.0?	1.45E-07?	9.46E-07?		
300	25.5?	4.43?	0.271?	2.492?	24.0?	2.27E-06?	1.48E-05?	1.09E-04?	7.11E-04?
					32.0?	9.81E-07?	6.38E-06?		
					20.0?	8.65E-07?	5.62E-06?		
400	28.4	3.63	-0.711	4.20?	30.0	7.89E-06	5.13E-05	4.58E-04	2.98E-03
					26.0	4.73E-06	3.07E-05		
					34.0	2.65E-06	1.72E-05		
500	28.1	4.29	-0.817	2.843	28.0	8.47E-06	5.50E-05	7.67E-04	4.98E-03
					32.0	6.33E-06	4.12E-05		
					20.0	3.63E-06	2.36E-05		
600	28.4	4.29	-0.490	2.645	30.0	9.53E-06	6.19E-05	1.05E-03	6.80E-03
					26.0	6.13E-06	3.98E-05		
					34.0	5.03E-06	3.27E-05		
700	28.6	4.20	-0.468	3.068	28.0	9.88E-06	6.42E-05	1.33E-03	8.62E-03
					32.0	8.84E-06	5.75E-05		
					24.0	4.43E-06	2.88E-05		
800	28.2	3.99	-0.558	3.365	31.0	9.54E-06	6.20E-05	1.24E-03	8.04E-03
					28.0	9.04E-06	5.88E-05		
					25.0	4.35E-06	2.93E-05		
1200	30.2	3.77	-0.857	4.048	32.0	7.97E-06	5.18E-05	1.46E-03	9.52E-03
					34.0	6.56E-06	4.26E-05		
					30.0	6.24E-06	4.06E-05		
1600	30.2	3.48	-1.130	4.729	34.0	7.71E-06	5.01E-05	1.72E-03	1.12E-02
					32.0	7.63E-06	4.96E-05		
					30.0	8.40E-06	4.16E-05		

? INDICATES UNCERTAINTY IN DATA.

X INDICATES INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 700, 800,
1200 AND 1600 M ARCS, NO TOWER SAMPLING. NONE OF THE ARCS EMBRACE
THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES FROM THEIR ACTUAL POSITIONS

TEST U-44 AUGUST 10, 1965 1122 TO 1152 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U=1.8M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/W	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/30.M	SEC/30.M	1/M
100	67.0X	20.21X	-0.090X	2.959X	54.0	9.42E-06	1.70E-05	8.36E-04X	1.51E-03X
					70.0	9.19E-06	1.65E-05		
					78.0	9.14E-06	1.65E-05		
200	56.1X	24.72X	-0.475X	2.129X	64.0X	1.50E-05X	2.70E-05X	1.78E-03X	3.20E-03X
					16.0X	1.29E-05X	2.32E-05X		
					68.0X	1.23E-05X	2.21E-05X		
300	61.5X	25.27X	-0.660X	2.549X	70.0	5.92E-06	1.06E-05	1.43E-03X	2.57E-03X
					66.0X	5.76E-06X	1.04E-05X		
					62.0X	5.76E-06X	1.04E-05X		
400	65.2X	23.19X	-0.711X	3.623X	80.0X	3.53E-06X	6.35E-06X	7.24E-04X	1.66E-03X
					76.0X	2.99E-06X	5.38E-06X		
					60.0X	2.88E-06X	5.18E-06X		
500	67.3X	24.63X	-0.214X	3.647X	66.0	2.17E-06	3.90E-06	6.91E-04X	1.24E-03X
					82.0	1.71E-06	3.08E-06		
					62.0	1.62E-06	2.92E-06		
600	72.8X	26.70X	0.592X	3.627X	72.0	1.14E-06	2.05E-06	4.63E-04X	8.33E-04X
					76.0	1.07E-06	1.93E-06		
					60.0	1.03E-06	1.85E-06		
700	67.7X	29.79X	0.281X	2.946X	58.0	9.14E-07	1.65E-06	4.17E-04X	7.51E-04X
					54.0	8.01E-07	1.44E-06		
					70.0	8.10E-07	1.10E-06		
800	63.5X	30.61X	0.325X	2.539X	55.0X	8.17E-07X	1.47E-06X	4.57E-04X	8.23E-04X
					61.0X	7.33E-07X	1.32E-06X		
					52.0X	5.72E-07X	1.03E-06X		
1200	66.5X	24.12X	0.423X	3.082X	54.0X	6.13E-07X	1.10E-06X	4.65E-04X	8.37E-04X
					58.0X	5.88E-07X	1.06E-06X		
					56.0X	5.35E-07X	9.64E-07X		
1600	40.9X	26.16X	0.921X	3.137X	54.0X	2.54E-07X	4.57E-07X	2.37E-04X	4.27E-04X
					52.0X	2.36E-07X	4.25E-07X		
					38.0X	1.89E-07X	3.40E-07X		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

ZINC SULFIDE RELEASE, GROUND LEVEL SAMPLING AT 200, 400, 600,
700, 800, 1200 AND 1600 M ARCS. NO TOWER SAMPLING. 6 OF THE
7 ARCS ENBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST 045 OCTOBER 19, 1966 1315 TO 1420 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U ₃ 6.8M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/30.M	SEC/30.M	1/M
200	38.3	5.77	-0.496	4.139	40.0	2.68E-04	1.82E-03	1.20E-02	8.18E-02
					36.0	2.22E-04	1.51E-03		
					44.0	1.68E-04	1.14E-03		
400	18.7	5.48	-0.050	3.254	18.0	7.26E-05	4.94E-04	6.93E-03	4.71E-02
					22.0	6.48E-05	4.41E-04		
					14.0	4.86E-05	3.31E-04		
600	18.7	4.69	-0.287	3.057	18.0	3.49E-05	2.38E-04	4.25E-03	2.89E-02
					22.0	3.09E-05	2.10E-04		
					14.0	1.55E-05	1.05E-04		
700	19.0	5.03	-0.290	2.549	20.0	2.02E-05	1.37E-04	3.58E-03	2.44E-02
					24.0	1.94E-05	1.32E-04		
					16.0	1.70E-05	1.16E-04		
800	19.0	4.65	-0.207	2.509	22.0	1.95E-05	1.32E-04	3.28E-03	2.23E-02
					19.0	1.71E-05	1.16E-04		
					16.0	1.37E-05	9.29E-05		
1200	18.9	3.87	-0.128	3.138	18.0	9.32E-06	6.34E-05	1.76E-03	1.20E-02
					20.0	9.12E-06	6.20E-05		
					22.0	6.18E-06	4.21E-05		
1600	27.3X	24.76X	2.646X	8.824X	18.0X	3.54E-06X	2.41E-05X	9.65E-04X	6.56E-03X
					20.0X	3.09E-06X	2.10E-05X		
					16.0X	2.59E-06X	1.76E-05X		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

FLUOROSCEIN RELEASE. GROUND LEVEL SAMPLING AT 200, 400, 600,
700, 800, 1200 AND 1600 M ARCS. NO TOWER SAMPLING. ALL OF THE ARCS
EMBRACED THE FULL CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST NAME OCTOBER 19, 1966 1350 TO 1420 PST									
FLUOROSCEIN RELEASE FROM ELEVATION OF 26M									
SAMPLER HT 1.5M U=10.8M/SEC AT 26M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	37.12	9.952	0.7742	7.5912	36.0	2.26E-06	2.44E-05	1.28E-047	1.38E-037
					40.0	1.93E-06	2.08E-05		
					32.0	1.50E-06	1.62E-05		
400	21.02	6.272	0.0482	4.0522	24.0	8.81E-06	9.52E-05	9.08E-047	9.80E-037
					20.0	8.33E-06	9.00E-05		
					28.0	4.60E-06	4.97E-05		
600	21.2	5.75	0.586	6.637	24.0	9.39E-06	1.01E-04	1.31E-03	1.41E-02
					20.0	8.81E-06	9.52E-05		
					16.0	5.01E-06	5.41E-05		
700	19.9	5.19	-0.371	3.349	20.0	8.53E-06	9.22E-05	1.31E-03	1.41E-02
					24.0	6.31E-06	6.81E-05		
					16.0	6.18E-06	6.67E-05		
800	19.2	5.42	-0.088	3.433	19.0	7.85E-06	8.48E-05	1.37E-03	1.48E-02
					22.0	7.42E-06	8.01E-05		
					16.0	5.34E-06	5.77E-05		
1200	18.82	4.312	-0.2612	3.0047	18.02	4.92E-062	5.31E-052	9.63E-047	1.04E-022
					20.02	4.50E-062	4.86E-052		
					22.02	3.37E-062	3.64E-052		
1600	19.7	4.36	1.253	11.638	18.0	2.98E-06	3.22E-05	6.74E-04	7.28E-03
					20.0	2.50E-06	2.70E-05		
					22.0	2.08E-06	2.25E-05		

? INDICATES UNCERTAINTIES IN DATA.

V INDICATES INVALID OR INCOMPLETE DATA.

ZINC SULFIDE RELEASE, GROUND LEVEL SAMPLING AT 200, 300, 400,
500, 600, 800, 1200 AND 1600 M ARCS. NO TOWER SAMPLING. ALL
ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST #04 OCTOBER 21, 1966 1100 TO 1030 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M									
SAMPLER HT 1.6M U=10.0M/SEC AT 26M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/R	EU/R	CI(E/R)	CI(EU/R)
METERS	DEG	DEG			DEG	SEC/CU.M	1/80.M	SEC/80.M	1/M
200	43.7	10.91	0.669	4.637	40.0	2.25E-06	2.25E-05	1.73E-04	1.73E-03
					40.0	2.02E-06	2.02E-05		
					36.0	1.58E-06	1.58E-05		
300	33.8	8.26	0.998	5.549	32.0	4.55E-06	4.65E-05	4.33E-04	4.33E-03
					36.0	4.18E-06	4.18E-05		
					28.0	3.83E-06	3.83E-05		
400	33.7	7.87	0.878	5.015	30.0	7.29E-06	7.29E-05	7.88E-04	7.88E-03
					34.0	4.74E-06	4.74E-05		
					38.0	4.69E-06	4.69E-05		
500	33.8	7.66	0.787	4.620	32.0	8.44E-06	8.44E-05	1.17E-03	1.17E-02
					28.0	6.56E-06	5.56E-05		
					36.0	5.34E-06	5.34E-05		
600	33.6	7.40	0.837	5.396	30.0	8.12E-06	8.12E-05	1.17E-03	1.17E-02
					34.0	5.99E-06	5.99E-05		
					38.0	3.74E-06	3.74E-05		
800	32.9	7.76	1.111	6.645	37.0	3.55E-06	3.55E-05	8.26E-04	8.26E-03
					31.0	3.40E-06	3.40E-05		
					34.0	3.37E-06	3.37E-05		
1200	34.7	7.27	0.690	4.549	36.0	2.08E-06	2.08E-05	6.17E-04	6.17E-03
					34.0	1.59E-06	1.59E-05		
					38.0	1.57E-06	1.57E-05		
1600	34.8	10.92	0.266	4.814	34.0	8.41E-07	8.41E-06	3.05E-04	3.05E-03
					36.0	6.52E-07	6.52E-06		
					40.0	5.58E-07	5.58E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

FLUOROSCEIN RELEASE. GROUND LEVEL SAMPLING AT 200, 300, 400, 600, 800, 1200 AND 1600 M ARCS. NO TOWER SAMPLING. ALL OF THE ARCS EMBRACED THE FULL CROSSWIND EXTENT OF THE TRACKER DISTRIBUTION.

TEST H46F OCTOBER 21, 1966 1000 TO 1030 PST									
FLUORESCIN RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 6.9M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/SQ.M	SEC/SQ.M	1/M
200	34.6	9.63	0.716	3.912	34.0	9.43E-05	6.51E-04	7.06E-03	4.87E-02
					38.0	9.05E-05	6.25E-04		
					26.0	7.01E-05	4.83E-04		
300	34.9	9.47	0.560	3.487	36.0	3.50E-05	2.42E-04	4.21E-03	2.91E-02
					32.0	3.14E-05	2.17E-04		
					28.0	2.83E-05	1.95E-04		
400	34.2	8.47	0.540	3.629	30.0	2.59E-05	1.78E-04	3.85E-03	2.66E-02
					34.0	2.36E-05	1.63E-04		
					38.0	2.36E-05	1.63E-04		
500	34.5	8.39	0.767	4.352	32.0	1.61E-05	1.11E-04	2.86E-03	1.97E-02
					28.0	1.50E-05	1.04E-04		
					36.0	1.40E-05	9.65E-05		
600	35.0	8.26	0.530	3.803	30.0	1.11E-05	7.64E-05	2.20E-03	1.52E-02
					34.0	9.98E-06	6.89E-05		
					38.0	8.75E-06	6.04E-05		
800	33.2	8.43	0.929	5.577	37.0	5.23E-06	3.61E-05	1.16E-03	8.00E-03
					34.0	5.01E-06	3.45E-05		
					31.0	4.33E-06	2.99E-05		
1200	35.6	8.12	0.653	3.819	36.0	2.14E-06	1.48E-05	7.37E-04	5.08E-03
					38.0	1.80E-06	1.24E-05		
					34.0	1.74E-06	1.20E-05		
1600	35.3	8.07	0.611	3.876	34.0	1.07E-06	7.35E-06	4.29E-04	2.96E-03
					36.0	9.64E-07	6.65E-06		
					32.0	8.64E-07	5.96E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

ZINC SULFIDE RELEASE, GROUND LEVEL SAMPLING AT 100, 200, 300, 400,
500, 600, 700, 800, 1200 AND 1600 M ARCS. NO TOWER SAMPLING, ALL
ARCS ENHANCE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST 047 NOVEMBER 16, 1966 1420 TO 1450 PST ZINC SULFIDE RELEASE FROM ELEVATION OF 26M SAMPLER HT 1.5M U= 8.2M/SEC AT 26M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/80,M	SEC/80,M	1/M
100	57.7	6.62	1.526	5.674	56.0	5.38E-07	4.41E-06	5.77E-06	4.73E-05
					52.0	9.62E-08	7.89E-07		
					72.0	3.97E-08	3.25E-07		
200	64.3	8.53	-0.738	3.495	66.0	3.96E-06	3.25E-05	2.42E-04	1.98E-03
					70.0	3.39E-06	2.78E-05		
					62.0	2.96E-06	2.43E-05		
300	66.6	9.00	-0.884	4.174	68.0	7.64E-06	6.26E-05	6.11E-04	5.01E-03
					72.0	6.37E-06	5.22E-05		
					64.0	5.41E-06	4.43E-05		
400	67.3	9.37	-0.898	3.809	70.0	5.79E-06	4.75E-05	6.76E-04	5.56E-03
					66.0	4.96E-06	4.07E-05		
					74.0	4.70E-06	3.85E-05		
500	67.0	9.41	-0.883	3.463	72.0	5.89E-06	4.83E-05	7.89E-04	6.47E-03
					68.0	4.96E-06	4.06E-05		
					64.0	3.27E-06	2.68E-05		
600	66.7	9.61	-0.913	3.156	70.0	4.77E-06	3.91E-05	6.16E-04	6.69E-03
					74.0	4.16E-06	3.41E-05		
					66.0	3.25E-06	2.66E-05		
700	67.4	8.09	-1.127	4.083	68.0	5.87E-06	4.81E-05	1.00E-03	8.21E-03
					72.0	5.24E-06	4.30E-05		
					76.0	2.70E-06	2.21E-05		
800	67.3	8.10	-1.273	4.235	70.0	6.57E-06	5.38E-05	9.59E-04	7.87E-03
					73.0	3.57E-06	2.93E-05		
					67.0	3.47E-06	2.84E-05		
1200	67.5	7.65	-1.029	3.472	72.0	2.20E-06	1.81E-05	2.49E-04	2.17E-03
					74.0	1.10E-06	9.00E-06		
					66.0	9.25E-07	7.59E-06		
1600	67.9	6.93	-1.171	3.824	72.0	1.32E-06	1.08E-05	4.60E-04	3.77E-03
					68.0	1.27E-06	1.04E-05		
					70.0	1.16E-06	9.48E-06		

? INDICATES UNCERTAINTIES IN DATA.

* INDICATES MAXIMUM OR INCOMPLETE DATA.

FLUOROSCEIN RELEASE. GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 600, 700, 800, 1200 AND 1600 M ARCS. NO TOWER SAMPLING. ALL OF THE ARCS, EXCEPT THE 1600 M ARC, EMBRACED THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST 047F NOVEMBER 16, 1966 1420 TO 1450 PST

FLUORESCIN RELEASE FROM ELEVATION OF 2M

SAMPLER HT 1.5M U= 4.6M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/W	EU/D	CI(E/Q)	CI(EU/Q)

METERS	DEG	DEG			DEG	SEC/CM	1/SQ.M	SEC/SQ.M	1/M
100	65.7	10.52	-0.700	2.889	72.0 68.0 64.0	6.45E-04 6.16E-04 5.29E-04	2.97E-03 2.84E-03 2.43E-03	2.48E-02	1.14E-01
200	66.1	10.05	-0.991	3.402	74.0 66.0 70.0	2.03E-04 1.88E-04 1.86E-04	9.34E-04 8.65E-04 8.58E-04	1.29E-02	5.93E-02
300	65.8	10.27	-0.802	3.136	72.0 64.0 68.0	7.01E-05 6.95E-05 6.44E-05	3.22E-04 3.20E-04 2.96E-04	7.43E-03	3.42E-02
400	66.2	10.02	-0.899	3.174	70.0 66.0 74.0	4.53E-05 3.74E-05 3.74E-05	2.08E-04 1.72E-04 1.72E-04	5.39E-03	2.44E-02
500	66.6	9.85	-0.975	3.372	72.0 68.0 76.0	2.90E-05 2.83E-05 1.59E-05	1.33E-04 1.30E-04 7.33E-05	4.16E-03	1.91E-02
600	66.6	9.26	-1.043	3.733	70.0 66.0 74.0	1.92E-05 1.55E-05 1.26E-05	8.85E-05 7.12E-05 5.78E-05	3.06E-03	1.41E-02
700	67.3	8.83	-1.128	3.899	68.0 72.0 76.0	1.61E-05 1.20E-05 7.49E-06	7.40E-05 5.51E-05 3.44E-05	2.55E-03	1.17E-02
800	67.3	8.49	-1.165	3.895	70.0 67.0 73.0	1.36E-05 8.18E-06 7.38E-06	6.27E-05 3.76E-05 3.40E-05	2.16E-03	9.96E-03
1200	67.2?	8.07?	-1.053?	3.467?	72.0? 74.0? 66.0?	4.56E-06? 2.83E-06? 2.76E-06?	2.10E-05? 1.30E-05? 1.27E-05?	6.23E-04?	2.87E-03?
1600	62.9X	6.36X	-1.097X	2.627X	68.0X 66.0X 64.0X	1.86E-06X 1.20E-06X 5.97E-07X	8.56E-06X 5.52E-06X 2.75E-06X	2.93E-04X	1.35E-03X

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 700, 800, 1200,
AND 1600 M APDR. NO TOWER SAMPLING. ALL THE ARCS EMBRACE THE CROSSWIND
EXTENT OF THE TRACER DISTRIBUTION.

TEST U4M NOVEMBER 16, 1966 1620 TO 1650 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M									
SAMPLER HT 1.5M U ₂ 5.5M/SEC AT 26M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/SQ.M	SEC/SQ.M	1/M
100	99.4	4.44	0.279	2.245	96.0 100.0 104.0	5.22E-08 3.98E-08 3.11E-08	2.87E-07 2.19E-07 1.71E-07	1.04E-06	5.73E-06
200	62.6	5.08	-0.606	4.840	62.0 66.0 58.0	1.62E-06 5.38E-07 4.39E-07	8.89E-06 2.96E-06 2.41E-06	4.55E-05	2.50E-04
300	59.7	4.97	0.331	3.884	60.0 56.0 64.0	1.41E-06 1.02E-06 8.94E-07	7.73E-06 5.59E-06 4.91E-06	8.32E-05	4.58E-04
400	60.2	6.66	0.215	2.332	58.0 54.0 62.0	2.17E-06 1.42E-06 1.26E-06	1.19E-05 7.82E-06 6.91E-06	2.28E-04	1.26E-03
500	60.4	7.05	0.339	2.032	56.0 60.0 68.0	2.01E-06 1.87E-06 1.43E-06	1.11E-05 1.03E-05 7.86E-06	2.72E-04	1.50E-03
600	61.7	7.16	-0.065	1.800	70.0 58.0 66.0	2.32E-06 2.16E-06 2.01E-06	1.28E-05 1.19E-05 1.11E-05	4.70E-04	2.59E-03
700	54.6?	5.13?	2.050?	7.697?	52.0? 56.0? 48.0?	2.56E-06? 2.15E-06? 4.81E-07?	1.41E-05? 1.18E-05? 2.65E-06?	2.77E-04?	1.53E-03?
800	61.2	7.35	-0.089	1.742	67.0 52.0 61.0	3.44E-06 2.85E-06 2.26E-06	1.89E-05 1.57E-05 1.24E-05	7.68E-04	4.22E-03
1200	63.8	6.71	-0.466	2.298	70.0 68.0 72.0	3.03E-06 2.96E-06 2.80E-06	1.67E-05 1.63E-05 1.54E-05	9.31E-04	5.12E-03
1600	63.1	7.48	-0.561	2.584	68.0 62.0 70.0	2.94E-06 2.64E-06 2.83E-06	1.62E-05 1.45E-05 1.45E-05	1.26E-03	6.95E-03

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

FLUOROSCIN RELEASE. GROUND LEVEL SAMPLING AT 100, 200, 300,
400, 600, 700, 800, 1200 AND 1600 M ARCS. NO TOWER SAMPLING.
ALL OF THE ARCS EMBRACED THE FULL CROSSWIND EXTENT OF THE TRACER
DISTRIBUTION.

TEST DATE NOVEMBER 16, 1966 1620 TO 1650 PST									
FLUOROSCIN RELEASE FROM ELEVATION OF 2 M									
SAMPLER HT 1.5M U= 1.5M/SEC AT 2 M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/80, M	SEC/80, M	1/M
100	63.1	9.04	-0.700	2.574	68.0	2.01E-03	3.02E-03	4.54E-02	6.81E-02
					72.0	1.12E-03	1.68E-03		
					52.0	6.50E-04	9.75E-04		
200	65.2	8.67	-0.757	2.252	70.0	9.00E-04	1.35E-03	3.40E-02	5.11E-02
					74.0	4.40E-04	6.60E-04		
					54.0	2.46E-04	3.69E-04		
300	65.8	9.01	-0.767	2.170	72.0	5.57E-04	8.35E-04	2.79E-02	4.18E-02
					76.0	1.53E-04	2.29E-04		
					52.0	1.30E-04	1.96E-04		
400	65.2	9.54	-0.459	1.744	74.0	3.02E-04	4.53E-04	2.75E-02	4.12E-02
					70.0	1.68E-04	2.52E-04		
					50.0	1.24E-04	1.85E-04		
500	66.3	9.53	-0.724	2.003	72.0	2.62E-04	3.93E-04	2.45E-02	3.68E-02
					76.0	1.30E-04	1.96E-04		
					52.0	8.12E-05	1.22E-04		
600	65.4	9.61	-0.375	1.682	74.0	1.38E-04	2.07E-04	1.99E-02	2.98E-02
					50.0	6.31E-05	9.47E-05		
					70.0	5.37E-05	8.05E-05		
700	60.6?	11.96?	0.429?	1.349?	76.0?	6.10E-05?	9.15E-05?	8.24E-03?	1.24E-02?
					52.0?	4.18E-05?	6.26E-05?		
					48.0?	3.62E-05?	5.42E-05?		
800	62.2	9.09	-0.196	1.533	73.0	1.03E-04	1.54E-04	1.63E-02	2.44E-02
					49.0	6.64E-05	9.95E-05		
					52.0	3.50E-05	5.26E-05		
1200	62.1	8.50	-0.311	1.777	72.0	3.78E-05	5.68E-05	9.62E-03	1.44E-02
					50.0	2.42E-05	3.63E-05		
					70.0	1.98E-05	2.97E-05		
1600	63.3	8.34	-0.781	2.692	72.0	2.22E-05	3.33E-05	7.58E-03	1.14E-02
					70.0	1.73E-05	2.59E-05		
					68.0	1.34E-05	2.01E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

ZINC SULFIDE RELEASE, GROUND SAMPLING AT 100, 200, 300, 400, 500, 600, 700, 800, 1200 AND 1600 M APCS. NO TOWER SAMPLING.
NONE OF THE 10 APCS EXCEED THE CROSSWIND EXTENT OF THE
TRACE DISTRIBUTION.

TEST 009 NOVEMBER 21, 1966 1450 TO 1520 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 26"									
SAMPLER #1 1.5" OR 1.7"/SEC AT 26"									
DISTANCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND	
FROM	STAND	COEFFICIENT						INTEGRATED VALUES	
SAMPLE	NEAL	DEV	SKEW	KURT	AZIMUTH	E/O	EU/O	CI(E/O)	CI(EU/O)
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METERS	DEG	DEG			DEG	SEC/CU,M	1/90,M	SEC/90,M	1/M
100	104.7X	9.24X	-0.036X	2.263X	100.0X 108.0X 104.0X	3.77E-04X 3.15E-04X 3.02E-04X	6.41E-04X 5.35E-04X 5.14E-04X	1.50E-02X	2.56E-02X
200	99.3X	10.73X	0.689X	2.259X	90.0X 94.0X 110.0X	3.02E-04X 2.13E-04X 0.45E-05X	5.14E-04X 3.62E-04X 1.44E-04X	1.35E-02X	2.29E-02X
300	106.2X	12.91X	-0.993X	2.481X	112.0X 116.0X 108.0X	4.65E-05X 4.13E-05X 3.21E-05X	7.91E-05X 7.02E-05X 5.46E-05X	3.98E-03X	6.76E-03X
400	112.0X	11.45X	-1.684X	4.631X	118.0X 114.0X 122.0X	2.12E-05X 1.69E-05X 9.73E-06X	3.60E-05X 2.88E-05X 1.65E-05X	1.75E-03X	2.98E-03X
500	111.8X	10.78X	-1.140X	2.859X	120.0X 116.0X 92.0X	1.21E-05X 6.95E-06X 1.64E-06X	2.05E-05X 1.18E-05X 2.79E-06X	9.88E-04X	1.68E-03X
600	113.8X	10.04X	-0.777X	2.030X	122.0X 98.0X 118.0X	1.01E-05X 2.50E-06X 2.40E-06X	1.72E-05X 4.75E-06X 4.08E-06X	8.63E-04X	1.47E-03X
700	110.8X	7.49X	0.155X	1.430X	120.0X 104.0X 108.0X	2.18E-06X 1.79E-06X 1.01E-06X	3.70E-06X 3.05E-06X 1.71E-06X	2.98E-04X	5.07E-04X
800	112.0X	6.47X	-0.080X	1.923X	121.0X 109.0X 106.0X	1.84E-06X 1.64E-06X 9.02E-07X	3.13E-06X 2.79E-06X 1.53E-06X	2.69E-04X	4.57E-04X
1200	112.6X	11.19X	-1.500X	5.110X	122.0X 118.0X 120.0X	1.19E-06X 7.56E-07X 3.84E-07X	2.03E-06X 1.28E-06X 6.52E-07X	1.86E-04X	3.16E-04X
1600	118.0X	3.30X	-1.073X	4.417X	118.0X 122.0X 120.0X	2.38E-07X 1.60E-07X 1.33E-07X	4.05E-07X 2.71E-07X 2.25E-07X	4.24E-05X	7.20E-05X

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

FLUOROSCEIN RELEASE. GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 600, 700, 800, AND 1200 M ARCS. NO TOWER SAMPLING. NONE OF THE ARCS EMBRACED THE FULL CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. A SIGNIFICANT PORTION OF THE PLUME PASSED TO THE SOUTH OF THE GRID.

TEST 1149F NOVEMBER 21, 1966 0420 TO 0433 PST									
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 0.9M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/90,M	SEC/SQ.M	1/M
100	104.7X	9.24X	-0.036X	2.263X	100.0	3.36E-04	3.02E-04	1.34E-02X	1.21E-02X
					108.0	2.81E-04	2.53E-04		
					104.0	2.70E-04	2.43E-04		
200	99.3X	10.73X	0.685X	2.271X	90.0	2.70E-04	2.43E-04	1.20E-02X	1.08E-02X
					94.0	1.90E-04	1.71E-04		
					110.0	7.53E-05	6.78E-05		
300	106.2X	12.92X	-0.996X	2.496X	112.0X	4.15E-05X	3.73E-05X	3.54E-03X	3.19E-03X
					116.0X	3.68E-05X	3.31E-05X		
					108.0X	2.86E-05X	2.58E-05X		
400	112.0X	11.52X	-1.698X	4.732X	118.0X	1.89E-05X	1.70E-05X	1.56E-03X	1.41E-03X
					114.0X	1.51E-05X	1.36E-05X		
					122.0X	8.67E-06X	7.81E-06X		
500	111.7X	10.88X	-1.180X	3.101X	120.0X	1.07E-05X	9.67E-06X	8.83E-04X	7.94E-04X
					116.0X	6.20E-06X	5.58E-06X		
					92.0X	1.46E-06X	1.32E-06X		
600	113.7X	10.26X	-0.882X	2.622X	122.0X	9.02E-06X	8.12E-06X	7.72E-04X	6.95E-04X
					98.0X	2.23E-06X	2.01E-06X		
					118.0X	2.14E-06X	1.93E-06X		
700	110.5X	8.03X	-0.373X	3.729X	120.0X	1.94E-06X	1.75E-06X	2.68E-04X	2.42E-04X
					104.0X	1.60E-06X	1.44E-06X		
					108.0X	8.97E-07X	8.08E-07X		
800	112.8X	6.60X	-0.207X	2.356X	121.0X	1.64E-06X	1.48E-06X	2.41E-04X	2.17E-04X
					109.0X	1.46E-06X	1.32E-06X		
					106.0X	8.05E-07X	7.25E-07X		
1200	112.3X	11.62X	-1.528X	5.143X	122.0X	1.06E-06X	9.58E-07X	1.65E-04X	1.48E-04X
					118.0X	6.74E-07X	6.07E-07X		
					120.0X	3.43E-07X	3.08E-07X		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

ZINC SULFIDE RELEASE, GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 700, 800, 1200 AND 1600 M ARCS. NO TOWER SAMPLING. ALL OF THE ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST US0 DECEMBER 5, 1966 1110 TO 1140 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M									
SAMPLER HT 1.5M UM 5.7M/SEC AT 26M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/3Q.M	SEC/3Q.M	1/M
100	30.5	6.85	0.531	1.820	24.0	8.64E-07	2.65E-06	7.46E-06	4.25E-05
					40.0	1.86E-07	1.06E-06		
					32.0	1.83E-07	1.04E-06		
200	33.6	6.87	-0.608	2.785	40.0	3.10E-06	1.77E-05	1.75E-04	1.00E-03
					36.0	2.73E-06	1.56E-05		
					32.0	2.67E-06	1.52E-05		
300	27.77	11.477	0.4347	2.4217	24.07	2.33E-067	1.33E-057	2.08E-049	1.19E-037
					32.07	1.31E-067	7.45E-067		
					12.07	1.17E-067	6.68E-067		
400	33.0	8.62	-0.619	3.511	36.0	6.88E-06	3.92E-05	8.70E-04	4.96E-03
					32.0	6.32E-06	3.60E-05		
					40.0	5.36E-06	3.05E-05		
500	31.1	8.34	-0.732	4.020	32.0	9.99E-06	5.69E-05	1.21E-03	6.89E-03
					36.0	6.68E-06	3.81E-05		
					28.0	6.11E-06	3.40E-05		
600	30.5	8.20	-0.885	3.960	30.0	6.83E-06	3.89E-05	1.08E-03	6.17E-03
					34.0	6.13E-06	3.49E-05		
					38.0	3.72E-06	2.12E-05		
700	30.9	8.28	-1.151	4.265	32.0	6.85E-06	3.91E-05	1.13E-03	6.44E-03
					36.0	5.81E-06	3.31E-05		
					28.0	3.50E-06	2.00E-05		
800	31.7	7.15	-1.038	4.549	34.0	6.38E-06	3.64E-05	1.15E-03	6.54E-03
					31.0	6.18E-06	3.52E-05		
					37.0	4.34E-06	2.47E-05		
1200	31.7	6.66	-0.885	3.953	30.0	2.81E-06	1.60E-05	7.47E-04	4.26E-03
					32.0	2.70E-06	1.54E-05		
					34.0	2.35E-06	1.34E-05		
1600	31.2	5.92	-0.840	3.474	32.0	1.26E-06	7.18E-06	3.07E-04	1.75E-03
					34.0	8.77E-07	5.00E-06		
					38.0	7.08E-07	4.04E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

FLUORESCIN RELEASE. GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 700, 800, 1200, AND 1600 * ACES. NO TOWER SAMPLING. ALL OF THE ACES EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES FROM THEIR ACTUAL POSITION

TEST USOF DECEMBER 5, 1966 1110 TO 1140 PST
FLUORESCIN RELEASE FROM ELEVATION OF 20M
SAMPLER HT 1.5M U= 9.9M/SEC AT 20M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SG.M	SEC/SG.M	1/M
100	61.2	9.38	0.350	4.289	58.0	2.58E-04	2.55E-03	4.45E-03	4.41E-02
					54.0	9.83E-05	9.73E-04		
					66.0	4.73E-05	4.68E-04		
200	63.0	7.41	-0.877	5.082	64.0	1.49E-04	1.48E-03	6.71E-03	6.64E-02
					68.0	1.03E-04	1.02E-03		
					60.0	8.07E-05	7.98E-04		
300	56.9?	12.76?	0.289?	1.845?	54.0?	1.52E-05?	1.50E-04?	8.95E-04?	8.86E-03?
					74.0?	9.74E-06?	9.65E-05?		
					42.0?	4.12E-06?	4.08E-05?		
400	61.6	6.38	-0.853	5.594	64.0	5.56E-05	5.50E-04	4.74E-03	4.69E-02
					60.0	4.79E-05	4.74E-04		
					68.0	2.14E-05	2.12E-04		
500	61.8	6.94	-0.983	5.726	62.0	2.58E-05	2.55E-04	2.75E-03	2.73E-02
					66.0	1.96E-05	1.94E-04		
					58.0	1.43E-05	1.42E-04		
600	62.2	6.76	-0.954	6.290	64.0	1.64E-05	1.62E-04	1.99E-03	1.97E-02
					60.0	1.05E-05	1.04E-04		
					68.0	8.26E-06	8.17E-05		
700	63.5	7.88	-0.366	9.063	62.0	6.59E-07	6.52E-06	1.14E-04	1.13E-03
					66.0	6.25E-07	6.19E-06		
					58.0	3.61E-07	3.57E-06		
800	61.8	5.88	-1.112	5.675	64.0	1.11E-05	1.10E-04	1.68E-03	1.67E-02
					61.0	9.19E-06	9.10E-05		
					58.0	6.32E-06	6.26E-05		
1200	63.5	3.83	0.270	2.986	64.0	3.93E-06	3.89E-05	9.45E-04	9.36E-03
					62.0	3.66E-06	3.63E-05		
					60.0	2.94E-06	2.91E-05		
1600	62.5	4.76	-1.266	5.247	62.0	2.22E-06	2.19E-05	5.27E-04	5.22E-03
					64.0	2.22E-06	2.19E-05		
					66.0	1.76E-06	1.75E-05		

? INDICATES UNCERTAINTIES IN DATA.

x INDICATES INVALID OR INCOMPLETE DATA.

ZINC SULFIDE RELEASE, GROUND SAMPLING AT 100, 200, 300, 400, 500, 600, 700, 800, 1200 AND 1600 M ARCS. NO TOWER SAMPLING. ALL OF THE ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST #51 JANUARY 3, 1967 1220 TO 1250 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M									
SAMPLER HT 1.5M W 4.8M/SEC AT 26M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/O	EU/O	CI(E/O)	CI(EU/O)
METERS	DEG	DEG			DEG	SEC/CM	1/80,M	SEC/80,M	1/M
100	62.6	11.21	1.430	4.643	60.0	2.65E-06	1.27E-05	3.04E-05	1.46E-04
					52.0	4.21E-07	2.02E-06		
					92.0	2.42E-07	1.16E-06		
200	59.6	13.19	1.087	3.703	58.0	2.90E-06	1.39E-05	1.33E-04	6.40E-04
					54.0	1.60E-06	7.66E-06		
					50.0	1.03E-06	4.92E-06		
300	65.2	9.65	0.020	3.270	64.0	4.98E-06	2.39E-05	4.70E-04	2.26E-03
					60.0	3.56E-06	1.71E-05		
					72.0	3.52E-06	1.69E-05		
400	63.9	10.63	-0.389	2.055	58.0	5.72E-06	2.74E-05	8.58E-04	4.12E-03
					66.0	8.80E-06	2.31E-05		
					74.0	4.29E-06	2.06E-05		
500	63.7	10.43	-0.326	2.336	56.0	3.51E-06	1.69E-05	7.56E-04	3.63E-03
					76.0	3.28E-06	1.58E-05		
					68.0	2.89E-06	1.39E-05		
600	61.0	12.46	-0.816	3.068	66.0	3.64E-06	1.75E-05	7.58E-04	3.64E-03
					58.0	2.58E-06	1.24E-05		
					74.0	2.33E-06	1.12E-05		
700	64.3	8.60	-0.704	2.410	64.0	1.64E-06	7.86E-06	4.87E-04	2.34E-03
					68.0	1.62E-06	7.80E-06		
					72.0	1.61E-06	7.73E-06		
800	63.7	8.19	-0.222	2.530	61.0	1.63E-06	7.80E-06	4.29E-04	2.06E-03
					67.0	1.33E-06	6.39E-06		
					69.0	1.33E-06	6.39E-06		
1200	63.0	7.41	-0.012	2.857	64.0	6.86E-07	3.29E-06	1.98E-04	9.52E-04
					62.0	6.36E-07	3.05E-06		
					66.0	4.50E-07	2.16E-06		
1600	64.3	7.44	-0.410	2.696	60.0	2.94E-07	1.17E-06	1.01E-04	4.85E-04
					68.0	2.14E-07	1.02E-06		
					64.0	1.89E-07	9.09E-07		

? INDICATES UNCERTAINTIES IN DATA.

x INDICATES INVALID OR INCOMPLETE DATA.

FLUORESCIN RELEASE. GROUND LEVEL SAMPLING ONLY AT THE 1600 M ARC.
THE ARC EMBRACED THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

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TEST USIF      JANUARY 3, 1967      1220 TO 1250 PST
FLUORESCIN RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M      U= 6.0M/SEC AT 2M
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DISTANCE FROM SOURCE  CROSSWIND DISTRIBUTION  THREE MAXIMUM EXPOSURES  CROSSWIND
                                COEFFICIENT  INTEGRATED VALUES
                                SKEW    KURT  AZIMUTH    E/W    EU/Q    CI(E/Q)  CI(EU/Q)
-----
METERS    DEG    DEG                                DEG    SEC/CU,M  1/SQ,M  SEC/SQ,M  1/M

1600      61.6    6.39  -0.623    5.057    60.0    7.02E-07  4.21E-06  3.24E-04  1.94E-03
                                64.0    6.86E-07  4.12E-06
                                62.0    6.78E-07  4.07E-06

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? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

ZINC SULFIDE RELEASE, GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 700, 800, 1200 AND 1600 M ARCS, NO TOWER SAMPLING, ALL ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST U-52 MARCH 20, 1967 1230 TO 1317 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M									
SAMPLER HT 1.5M U= 9.1M/SEC AT 26M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT		AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/80.M	SEC/80.M	1/M
100	51.8	14.25	0.437	3.329	52.0 56.0 60.0	1.17E-07 1.16E-07 7.02E-08	1.07E-06 1.05E-06 6.39E-07	4.87E-06	4.43E-05
200	52.67	10.867	0.4987	3.2697	50.07 48.0 50.0	1.63E-067 1.41E-06 9.30E-07	1.48E-057 1.28E-05 8.46E-06	1.06E-047	9.68E-047
300	60.1	10.69	0.060	2.474	60.0 64.0 56.0	2.79E-06 2.91E-06 2.47E-06	2.53E-05 2.29E-05 2.25E-05	3.59E-04	3.26E-03
400	59.27	11.577	-0.2507	2.6117	62.07 58.07 54.07	4.48E-067 4.23E-067 3.91E-067	4.08E-057 3.85E-057 3.56E-057	8.19E-047	7.45E-032
500	57.6	11.51	-0.002	2.300	52.0 60.0 64.0	2.59E-06 2.45E-06 2.43E-06	2.35E-05 2.23E-05 2.21E-05	6.96E-04	6.33E-03
600	60.1	10.75	-0.252	2.776	62.0 58.0 66.0	3.49E-06 3.19E-06 3.15E-06	3.36E-05 2.90E-05 2.87E-05	8.95E-04	7.79E-03
700	58.3	11.03	-0.113	2.644	56.0 64.0 60.0	3.06E-06 2.41E-06 2.39E-06	2.78E-05 2.19E-05 2.17E-05	8.45E-04	7.69E-03
800	59.4	10.61	-0.138	2.651	64.0 61.0 58.0	2.31E-06 2.17E-06 1.87E-06	2.11E-05 1.98E-05 1.70E-05	7.20E-04	6.95E-03
1200	59.2	10.44	-0.050	2.888	56.0 58.0 60.0	7.26E-07 4.87E-07 4.79E-07	6.61E-06 4.43E-06 4.36E-06	2.59E-04	2.36E-03
1600	59.5	9.66	-0.183	2.678	58.0 56.0 62.0	4.10E-07 3.82E-07 3.65E-07	3.73E-06 3.47E-06 3.32E-06	2.42E-04	2.21E-03

7 INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

FLUORESCCEIN RELEASE. GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 700, 800, 1200 AND 1600 M ARCS. NO TOWER SAMPLING. ONLY THE 100 M ARC DOES NOT EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES FROM THEIR ACTUAL POSITION

TEST US2F MARCH 20, 1967 1230 TO 1317 PST									
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 6.8M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/SQ,M	SEC/SQ,M	1/M
100	88.1X	14.70X	-0.093X	2.005X	106.0 82.0 94.0	1.58E-04 1.56E-04 1.56E-04	1.07E-03 1.06E-03 1.06E-03	9.12E-03X	6.20E-02X
200	83.2?	14.11?	0.500?	2.466?	88.0? 108.0? 84.0?	4.85E-05? 3.99E-05? 3.93E-05?	3.30E-04? 2.71E-04? 2.68E-04?	3.44E-03?	2.34E-02?
300	91.4	10.48	0.037	2.430	90.0 82.0 86.0	2.87E-05 2.77E-05 2.58E-05	1.95E-04 1.88E-04 1.75E-04	4.06E-03	2.76E-02
400	90.1	12.49	-0.350	2.466	88.0 92.0 96.0	1.49E-05 1.46E-05 1.20E-05	1.01E-04 9.94E-05 8.18E-05	3.13E-03	2.13E-02
500	88.5	12.44	-0.230	2.414	90.0 86.0 94.0	1.00E-05 7.64E-06 6.59E-06	6.82E-05 5.20E-05 4.48E-05	2.26E-03	1.54E-02
600	89.6	12.16	-0.290	2.512	92.0 88.0 96.0	7.07E-06 6.30E-06 4.87E-06	4.81E-05 4.29E-05 3.31E-05	1.88E-03	1.28E-02
700	89.7	12.20	-0.187	2.347	86.0 90.0 94.0	3.81E-06 3.81E-06 3.81E-06	2.59E-05 2.59E-05 2.59E-05	1.50E-03	1.02E-02
800	90.2	11.94	-0.218	2.400	91.0 94.0 88.0	3.40E-06 3.28E-06 2.68E-06	2.31E-05 2.23E-05 1.82E-05	1.25E-03	8.50E-03
1200	91.0	11.35	-0.363	2.597	94.0 90.0 92.0	1.05E-06 9.19E-07 9.08E-07	7.15E-06 6.25E-06 6.17E-06	4.93E-04	3.35E-03

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

ZINC SULFIDE RELEASE, GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 700, 800, 1200 AND 1600 M ARCS, NO TOWER SAMPLING, ALL ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST U-53 MARCH 23, 1967 1021 TO 1121 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M									
SAMPLER HT 1.5M U=15.8M/SEC AT 26M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEN	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/80.M	SEC/80.M	1/M
100	53.5	15.28	0.334	2.163	48.0	1.56E-08	2.47E-07	7.78E-07	1.23E-05
					56.0	9.96E-09	1.57E-07		
					40.0	9.15E-09	1.45E-07		
200	39.0	14.18	0.618	2.885	38.0	1.03E-07	1.62E-06	7.97E-06	1.26E-04
					30.0	6.89E-08	1.09E-06		
					34.0	6.70E-08	1.06E-06		
300	36.97	12.747	1.0487	4.1157	32.07	1.77E-077	2.80E-067	2.15E-057	3.40E-047
					28.07	1.56E-077	2.46E-067		
					40.07	1.52E-077	2.40E-067		
400	39.7	12.55	0.800	3.668	38.0	3.30E-07	5.22E-06	3.90E-05	6.17E-04
					34.0	1.51E-07	2.38E-06		
					30.0	1.44E-07	2.27E-06		
500	37.1	10.26	0.776	3.672	32.0	5.39E-07	8.51E-06	9.87E-05	1.56E-03
					40.0	4.82E-07	7.62E-06		
					36.0	4.39E-07	6.93E-06		
600	36.3	9.95	0.944	3.664	34.0	6.03E-07	9.53E-06	1.18E-04	1.87E-03
					30.0	5.26E-07	8.32E-06		
					38.0	4.20E-07	6.64E-06		
700	35.3	9.44	0.869	3.666	32.0	8.28E-07	1.31E-05	1.59E-04	2.52E-03
					36.0	4.73E-07	7.47E-06		
					28.0	4.64E-07	7.33E-06		
800	36.3	9.30	0.828	3.591	31.0	3.78E-07	5.98E-06	1.03E-04	1.63E-03
					37.0	3.76E-07	5.94E-06		
					34.0	3.37E-07	5.33E-06		
1200	35.1	8.08	0.689	3.640	30.0	3.97E-07	6.27E-06	1.30E-04	2.06E-03
					32.0	3.66E-07	5.79E-06		
					34.0	3.57E-07	5.64E-06		
1600	37.2	9.87	0.753	2.747	32.0	1.73E-07	2.74E-06	6.53E-05	1.03E-03
					28.0	1.39E-07	2.20E-06		
					39.0	1.24E-07	1.96E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

FLOURESCCEIN RELEASE, GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500,
600, 700, 800, 1200, AND 1600 M ARCS. NO TOWER SAMPLING.

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES FROM THEIR ACTUAL POSITION

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TEST U53F      MARCH 23, 1967      1021 TO 1121 PST
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M      U= 8.9M/SEC AT 2M
*****
DISTANCE  CROSSWIND DISTRIBUTION  THREE MAXIMUM EXPOSURES  CROSSWIND
FROM      MEAN  STD  COEFFICIENT  AZIMUTH  E/Q  CU/M  INTEGRATED VALUES
SOURCE  MEAN  DEV  SKEW  KURT  AZIMUTH  E/Q  CU/M  CI(E/Q)  CI(EU/Q)
*****
METERS  DEG  DEG  DEG  DEG  DEG  SEC/CM  1/30,M  SEC/30,M  1/M

100      73.4X 18.27X +0.064X 1.767X 90.0  8.87E+06  7.89E-05  3.15E-04X  2.80E-03X
        62.0  5.05E-06  4.49E-05
        46.0  4.83E-06  4.30E-05

200      65.6  8.40  0.829  4.484  64.0  3.31E-05  2.95E-04  2.45E-03  2.18E-02
        68.0  3.27E-05  2.91E-04
        60.0  3.19E-05  2.84E-04

300      63.1? 7.52? 1.739? 9.493? 62.0? 1.76E+05? 1.57E-04? 1.24E-03? 1.11E-02?
        66.0? 1.15E+05? 1.02E-04?
        58.0? 1.12E+05? 9.96E-05?

400      65.6  9.49  1.024  4.902  60.0  7.32E-06  6.51E-05  1.03E-03  9.19E-03
        64.0  7.17E-06  6.38E-05
        66.0  6.17E-06  5.49E-05

500      64.7  9.04  0.895  3.908  58.0  6.46E-06  5.75E-05  1.23E-03  1.10E-02
        62.0  5.88E-06  5.24E-05
        54.0  5.74E-06  5.11E-05

600      65.0  9.01  0.972  4.299  64.0  5.88E-06  5.24E-05  1.12E-03  9.98E-03
        60.0  5.02E-06  4.47E-05
        56.0  3.73E-06  3.32E-05

700      64.5  7.97  0.925  4.575  58.0  4.54E+06  4.04E-05  8.73E-04  7.77E-03
        66.0  3.60E-06  3.21E-05
        70.0  2.88E-06  2.57E-05

800      65.5  7.96  1.053  4.859  61.0  2.23E-06  1.99E-05  4.80E-04  4.27E-03
        67.0  2.09E-06  1.86E-05
        64.0  2.02E-06  1.80E-05

1200     65.2  7.38  0.685  3.681  60.0  1.65E-06  1.47E-05  4.93E-04  4.39E-03
        62.0  1.57E-06  1.40E-05
        64.0  1.45E-06  1.29E-05

1600     64.8  7.01  0.709  3.813  62.0  8.56E-07  7.62E-06  3.01E-04  2.68E-03
        64.0  7.60E-07  6.76E-06
        60.0  5.79E-07  5.15E-06

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? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

ZINC SULFIDE RELEASE, GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 700, 800, 1200 AND 1600 M ARCS, NO TOWER SAMPLING, ALL ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST U-54 MARCH 23, 1967 2240 TO 2325 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M									
SAMPLER HT 1.5M U ₀ 6.9M/SEC AT 26M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	DEV	SKEN	KURT	AZIMUTH	E/G	EU/G	CI(E/G)	CI(EU/G)
METERS	DEG	DEG			DEG	SEC/CM	1/80.M	SEC/80.M	1/M
100	92.9	13.26	-1.590	6.721	104.0	1.59E-07	1.09E-06	4.47E-06	3.09E-05
					88.0	1.58E-07	1.09E-06		
					92.0	9.41E-08	6.49E-07		
200	94.1	11.67	2.610	9.782	90.0	3.69E-07	2.55E-06	1.36E-05	9.41E-05
					46.0	1.77E-07	1.22E-06		
					58.0	1.48E-07	1.02E-06		
300	93.7	7.27	0.134	2.852	52.0	9.68E-07	6.68E-06	7.11E-05	4.91E-04
					56.0	5.94E-07	4.10E-06		
					48.0	8.73E-07	3.27E-06		
400	94.9	6.89	0.073	2.366	58.0	1.40E-06	9.64E-06	1.88E-04	1.29E-03
					54.0	1.24E-06	8.52E-06		
					50.0	1.19E-06	8.21E-06		
500	95.2	6.76	-0.089	2.379	56.0	1.33E-06	9.18E-06	2.08E-04	1.43E-03
					60.0	1.31E-06	9.06E-06		
					52.0	9.46E-07	6.53E-06		
600	95.2	6.24	-0.120	2.728	58.0	2.22E-06	1.53E-05	3.06E-04	2.11E-03
					54.0	1.63E-06	1.12E-05		
					50.0	9.77E-07	6.74E-06		
700	94.5	6.32	0.054	2.572	56.0	4.03E-06	2.78E-05	6.52E-04	4.50E-03
					48.0	2.38E-06	1.64E-05		
					60.0	2.24E-06	1.55E-05		
800	94.9	6.44	-0.053	2.413	58.0	3.38E-06	2.33E-05	6.70E-04	4.62E-03
					55.0	2.98E-06	2.06E-05		
					52.0	2.01E-06	1.39E-05		
1200	95.4?	6.05?	-0.284?	2.590?	56.0?	1.48E-06?	1.02E-05?	2.54E-04?	1.76E-03?
					58.0?	1.26E-06?	8.73E-06?		
					50.0?	7.18E-07?	4.95E-06?		
1600	95.3	5.02	-0.334	2.863	58.0	2.37E-06	1.64E-05	7.20E-04	4.97E-03
					54.0	1.65E-06	1.14E-05		
					52.0	1.59E-06	1.10E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

FLUORESCIN RELEASE. GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 700, 800, 1200 AND 1600 M ARCS. NO TOWER SAMPLING. ALL ARCS ENBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST US4F MARCH 23, 1967 2240 TO 2325 PST									
FLUORESCIN RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U# 3.3M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/SQ,M	SEC/SQ,M	1/M
100	53.5	13.91	0.668	7.941	36.0	2.59E-05	8.55E-05	9.89E-04	3.26E-03
					76.0	2.03E-05	6.71E-05		
					60.0	1.79E-05	5.90E-05		
200	46.0	9.04	0.716	2.364	38.0	2.47E-05	8.14E-05	7.55E-04	2.49E-03
					58.0	8.22E-06	2.71E-05		
					34.0	5.96E-06	1.97E-05		
300	62.6	8.28	-1.852	6.128	64.0	3.51E-05	1.16E-04	1.53E-03	5.05E-03
					68.0	1.66E-05	5.49E-05		
					72.0	6.58E-06	2.17E-05		
400	53.5	7.61	-0.303	2.427	58.0	1.15E-04	3.80E-04	8.65E-03	2.85E-02
					46.0	4.81E-05	1.59E-04		
					40.0	3.21E-05	1.06E-04		
500	53.2	7.00	-0.051	2.364	56.0	8.84E-05	2.92E-04	9.67E-03	3.19E-02
					44.0	4.32E-05	1.42E-04		
					60.0	4.19E-05	1.38E-04		
600	54.2	5.56	-0.417	3.480	54.0	8.22E-05	2.71E-04	8.14E-03	2.69E-02
					58.0	9.06E-05	1.67E-04		
					46.0	1.85E-05	6.10E-05		
700	55.9	6.00	-0.554	3.724	56.0	4.38E-05	1.44E-04	5.24E-03	1.73E-02
					60.0	2.28E-05	7.53E-05		
					52.0	1.36E-05	4.48E-05		
800	54.5	6.29	-0.345	2.632	58.0	3.70E-05	1.22E-04	5.50E-03	1.82E-02
					55.0	2.96E-05	9.77E-05		
					46.0	1.88E-05	4.88E-05		
1200	55.0?	6.59?	-0.343?	2.144?	58.0?	1.89E-05?	6.24E-05?	3.54E-03?	1.17E-02?
					56.0?	1.48E-05?	4.88E-05?		
					60.0?	8.60E-06?	2.84E-05?		
1600	55.1	5.29	-0.323	2.616	58.0	1.65E-05	5.45E-05	3.80E-03	1.26E-02
					54.0	8.37E-06	2.76E-05		
					56.0	7.68E-06	2.53E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 700, 800, 1200, AND 1600 M ARCS. NO TOWER SAMPLING. ALL ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES FROM THEIR ACTUAL POSITIONS

TEST U-55 APRIL 14, 1967 1150 TO 1250 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M									
SAMPLER HT 1.5M W 4.8M/SEC AT 26M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	DEV	SKEN	KURT	AZIMUTH	E/G	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/SQ.M	SEC/SQ.M	1/M
100	87.2?	15.20?	-0.626?	4.189?	86.0?	2.05E-04?	9.86E-04?	9.27E-03?	4.45E-02?
					90.0?	1.64E-04?	7.86E-04?		
					78.0?	1.43E-04?	6.86E-04?		
200	82.1	19.7?	-0.306	2.464	92.0	2.19E-05	1.05E-04	2.22E-03	1.07E-02
					96.0	1.69E-05	8.13E-05		
					84.0	1.37E-05	6.60E-05		
300	83.7	19.44	-0.300	2.591	86.0	7.87E-06	3.78E-05	1.31E-03	6.30E-03
					94.0	5.33E-06	2.56E-05		
					90.0	5.17E-06	2.48E-05		
400	83.6	14.58	-0.489	3.376	88.0	9.51E-06	4.57E-05	1.22E-03	5.86E-03
					92.0	5.72E-06	2.75E-05		
					84.0	4.12E-06	1.98E-05		
500	84.3?	14.87?	0.193?	2.274?	94.0?	2.01E-06?	9.63E-06?	6.52E-04?	3.13E-03?
					74.0?	1.83E-06?	8.76E-06?		
					90.0?	1.80E-06?	8.62E-06?		
600	84.3?	13.21?	-0.119?	2.619?	84.0?	3.60E-06?	1.73E-05?	1.05E-03?	5.06E-03?
					88.0?	2.88E-06?	1.38E-05?		
					92.0?	2.32E-06?	1.12E-05?		
700	89.8	12.37	-0.175	3.677	86.0	2.37E-06	1.14E-05	7.46E-04	3.58E-03
					82.0	2.04E-06	9.79E-06		
					98.0	1.55E-06	7.45E-06		
800	86.7	13.68	-0.013	2.486	85.0	1.49E-06	7.15E-06	7.44E-04	3.57E-03
					97.0	1.48E-06	7.12E-06		
					79.0	1.39E-06	6.69E-06		
1200	87.9?	13.34?	0.390?	2.240?	84.0?	5.87E-07?	2.82E-06?	1.77E-04?	8.52E-04?
					82.0?	3.72E-07?	1.79E-06?		
					76.0?	3.50E-07?	1.68E-06?		
1600	86.5	12.99	0.135	2.191	94.0	2.14E-07	1.03E-06	1.04E-04	5.21E-04
					72.0	1.84E-07	8.85E-07		
					84.0	1.58E-07	7.56E-07		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

FLUORESCENCE RELEASE. GROUND LEVEL SAMPLING AT 100, 200, 300, 400, 500, 600, 700, 800, 1200 AND 1600 M ARCS. NO TOWER SAMPLING. ALL BUT TWO OF THE ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

SAMPLER AZIMUTHS HAVE BEEN INCREASED BY 30 DEGREES FROM THEIR ACTUAL POSITION

TEST USSF APRIL 14, 1967 1150 TO 1250 PST										
FLUORESCENCE RELEASE FROM ELEVATION OF 2M										
SAMPLER HT 1.5M U=3.0M/SEC AT 2M										
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND		
	MEAN	DEV	SKEN	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)	
METERS	DEG	DEG			DEG	SEC/CU M	1/30,M	SEC/30,M	1/M	
100	65.9?	27.4??	-0.084?	1.791?	46.0? 74.0? 90.0?	1.09E-05? 1.04E-05? 8.53E-06?	3.26E-05? 3.12E-05? 2.56E-05?	7.93E-04?	2.38E-03?	
200	81.2X	21.61X	-0.559X	2.308X	92.0 96.0 104.0	9.86E-06 9.06E-06 8.79E-06	2.96E-05 2.72E-05 2.64E-05	1.29E-03X	3.86E-03X	
300	84.7	18.3?	-0.780	3.259	86.0 94.0 90.0	1.47E-05 8.26E-06 7.99E-06	4.40E-05 2.48E-05 2.40E-05	1.82E-03	5.47E-03	
400	85.2	16.3?	-0.535	3.27?	88.0 92.0 96.0	1.04E-05 6.84E-06 5.68E-06	3.12E-05 2.05E-05 1.71E-05	1.52E-03	4.57E-03	
500	88.5?	14.22?	-0.451?	3.664?	90.0? 94.0? 98.0?	4.44E-06? 4.17E-06? 3.29E-06?	1.33E-05? 1.25E-05? 9.86E-06?	1.07E-03?	3.22E-03?	
600	85.1?	13.86?	-0.278?	2.822?	88.0? 92.0? 100.0?	3.55E-06? 3.43E-06? 2.60E-06?	1.06E-05? 1.03E-05? 7.81E-06?	9.80E-04?	2.94E-03?	
700	90.7X	12.59X	-0.332X	4.199X	86.0 90.0 94.0	2.94E-06 2.38E-06 2.33E-06	8.81E-06 7.15E-06 6.98E-06	1.01E-03X	3.04E-03X	
800	88.9	13.81	-0.298	3.072	85.0 97.0 88.0	2.22E-06 2.05E-06 1.83E-06	6.65E-06 6.15E-06 5.48E-06	8.98E-04	2.69E-03	
1200	87.4?	12.66?	0.273?	2.278?	84.0? 82.0? 74.0?	7.31E-07? 6.90E-07? 4.84E-07?	2.19E-06? 2.07E-06? 1.45E-06?	2.99E-04?	8.97E-04?	
1600	89.4	11.89	-0.121	2.64?	98.0 84.0 92.0	2.89E-07 2.74E-07 2.15E-07	8.67E-07 8.23E-07 6.46E-07	1.79E-04	5.37E-04	

? INDICATES UNCERTAINTIES IN DATA,

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS.
 NONE OF THE ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.
 11 OF THE 20 TOWERS ARE "MIT" BY THE TRACER.

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TEST FT1      APRIL 23, 1963    0516 TO 0601 PST
ZINC SULFIDE  RELEASE FROM ELEVATION OF 7M
SAMPLER HT 1.5M      0x 1.5M/SEC AT 7M
*****
DISTANCE      CROSSWIND DISTRIBUTION      THREE MAXIMUM EXPOSURES      CROSSWIND
FROM          STAND      COEFFICIENT      AZIMUTH      E/Q      EU/Q      INTEGRATED VALUES
SOURCE      MEAN      DEV      SKEW      KURT      CI(E/Q)      CI(EU/Q)
*****
METERS      DEG      DEG
200      07.4X  5.88X  -0.159X  3.553X  86.0X  4.13E-05X  6.20E-05X  1.42E-03X  2.13E-03X
           88.0X  4.01E-05X  6.02E-05X
           90.0X  2.84E-05X  4.26E-05X
800      02.9X  5.53X  -0.556X  3.259X  84.0X  4.46E-05X  6.69E-05X  5.57E-03X  8.35E-03X
           86.0X  3.94E-05X  5.92E-05X
           82.0X  2.57E-05X  3.85E-05X
1600     79.8X  8.64X  4.871X  38.702X  84.0X  1.04E-05X  1.56E-05X  3.43E-03X  5.15E-03X
           83.0X  7.53E-06X  1.13E-05X
           82.0X  7.89E-06X  1.06E-05X
3200     77.9X  6.54X  2.084X  7.848X  74.0X  4.02E-06X  6.04E-06X  1.81E-03X  2.72E-03X
           75.0X  3.96E-06X  5.95E-06X
           73.0X  3.77E-06X  5.65E-06X
  
```

7 INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1200 AND 1600 M ARCS. NONE OF THE ARCS ENRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. ALL OF THE TOWERS WERE "HIT" BY THE TRACER.

TEST FT3 MAY 16, 1963 0355 TO 0415 PST ZINC SULFIDE RELEASE FROM ELEVATION OF 7M SAMPLER HT 1.5M UM 0.5M/SEC AT 7M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/O	EU/O	CI(E/O)	CI(EU/O)
METERS	DEG	DEG			DEG	SEC/CU,M	1/SQ,M	SEC/8Q,M	1/M
200	97.0X	29.52X	0.569X	1.870X	68.0X	6.33E-06X	3.16E-06X	2.00E-04X	9.98E-05X
					70.0X	2.19E-06X	1.10E-06X		
					72.0X	1.99E-06X	9.95E-07X		
800	119.3X	24.39X	-0.328X	2.307X	116.0?	7.67E-06?	3.83E-06?	5.09E-03X	2.55E-03X
					114.0?	7.46E-06?	3.73E-06?		
					118.0?	7.42E-06?	3.71E-06?		
1600	115.9X	14.40X	0.704X	2.956X	106.0?	2.78E-05?	1.39E-05?	6.90E-03X	3.45E-03X
					107.0?	2.11E-05?	1.06E-05?		
					113.0?	1.59E-05?	7.95E-06?		
3200	111.4X	17.95X	0.795X	3.732X	107.0?	5.36E-06?	2.68E-06?	6.67E-03X	3.34E-03X
					105.0?	4.97E-06?	2.49E-06?		
					108.0?	4.77E-06?	2.38E-06?		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1200 AND 1600 M ARCS. ALL OF THE ARCS ENRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 12 OF THE 20 TOWERS WERE "HIT" BY THE TRACER.

TEST FT0 MAY 21, 1963 0350 TO 0420 PST ZINC SULFIDE RELEASE FROM ELEVATION OF 7M SAMPLER HT 1.5M UM 0.5M/SEC AT 7M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/O	EU/O	CI(E/O)	CI(EU/O)
METERS	DEG	DEG			DEG	SEC/CU,M	1/SQ,M	SEC/8Q,M	1/M
200	129.9	5.82	0.560	3.529	128.0	1.29E-04	6.17E-04	5.20E-03	2.52E-02
					130.0	9.88E-05	4.74E-04		
					126.0	9.13E-05	4.38E-04		
800	131.7	6.50	2.215	10.135	128.0	2.83E-05	1.36E-04	4.38E-03	2.10E-02
					130.0	2.48E-05	1.19E-04		
					132.0	2.48E-05	1.19E-04		
1600	131.0	3.14	-0.140	5.274	129.0	1.40E-05	6.72E-05	2.50E-03	1.24E-02
					131.0	1.26E-05	6.06E-05		
					130.0	1.14E-05	5.48E-05		
3200	130.9	5.41	-3.730	45.296	129.0	4.79E-06	2.30E-05	2.13E-03	1.02E-02
					130.0	4.51E-06	2.16E-05		
					132.0	4.23E-06	2.03E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS.
ALL OF THE ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.
11 OF THE 20 TOWERS WERE "HIT" BY THE TRACER

TEST FT5 MAY 22, 1963 0345 TO 0415 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M									
SAMPLER HT 1.5M U= 4.2M/SEC AT 7M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEN	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/80,M	SEC/80,M	1/M
200	129.4	4.42	-0.280	2.907	130.0	2.30E-04	9.68E-04	7.94E-03	3.33E-02
					132.0	1.78E-04	7.48E-04		
					128.0	1.74E-04	7.30E-04		
800	129.5	3.27	-0.216	2.620	132.0	6.29E-05	2.64E-04	7.46E-03	3.13E-02
					130.0	5.48E-05	2.30E-04		
					128.0	5.37E-05	2.26E-04		
1600	129.8	2.66	-0.194	2.548	131.0	2.43E-05	1.02E-04	4.82E-03	2.03E-02
					129.0	2.36E-05	9.92E-05		
					130.0	2.21E-05	9.29E-05		
3200	131.7	2.32	-0.337	3.356	130.0	9.47E-06	3.98E-05	2.96E-03	1.24E-02
					131.0	7.49E-06	3.15E-05		
					132.0	6.76E-06	2.84E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS. NONE
OF THE ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.
3 OF THE 20 TOWERS WERE "HIT" BY THE TRACER

TEST FT6 JUNE 4, 1963 0421 TO 0444 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M									
SAMPLER HT 1.5M U= 2.4M/SEC AT 7M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEN	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/80,M	SEC/80,M	1/M
200	83.1X	8.96X	1.002X	2.684X	78.0	2.63E-05	6.31E-05	9.15E-04X	2.20E-03X
					80.0	2.25E-05	5.41E-05		
					76.0	1.66E-05	3.99E-05		
800	79.5X	8.29X	0.717X	2.152X	72.0X	2.87E-05X	6.90E-05X	4.82E-03X	1.16E-02X
					74.0X	2.67E-05X	6.41E-05X		
					76.0X	2.09E-05X	5.01E-05X		
1600	70.0X	8.00X	0.717X	2.152X	70.0X	1.76E-07X	4.22E-07X		
3200	72.0X	1.16X	0.576X	1.769X	71.0X	2.18E-07X	5.23E-07X	2.43E-05X	5.84E-05X
					73.0X	8.80E-08X	2.11E-07X		
					74.0X	6.95E-08X	1.67E-07X		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS. ALL OF THE ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 1A OF THE 20 TOWERS WERE "HIT" BY THE TRACER

TEST F17 JUNE 13, 1963 0377 TO 0420 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M									
SAMPLER HT 1.5M U= 3.7M/SEC AT 7M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKFW	KURT	AZIMUTH	E/G	EU/G	CI(E/G)	CI(EU/G)
METERS	DEG	DEG			DEG	SEC/CM	1/30,M	SEC/30,M	1/M
200	117.7	4.92	-0.814	4.618	118.0	4.01E-04	1.48E-03	1.30E-02	4.80E-02
					116.0	2.92E-04	1.08E-03		
					120.0	2.92E-04	1.08E-03		
800	117.3	4.20	0.074	4.695	116.0	7.95E-05	2.94E-04	7.81E-03	2.89E-02
					118.0	6.00E-05	2.22E-04		
					114.0	3.98E-05	1.47E-04		
1600	118.0	5.64	1.000	3.757	115.0	1.28E-05	4.74E-05	3.01E-03	1.11E-02
					116.0	1.22E-05	4.50E-05		
					114.0	1.16E-05	4.30E-05		
3200	120.2	6.70	1.185	4.233	115.0	3.12E-06	1.15E-05	1.63E-03	6.05E-03
					117.0	3.04E-06	1.12E-05		
					118.0	2.99E-06	1.11E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS. THE ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST F1A JUNE 28, 1963 0247 TO 0327 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M									
SAMPLER HT 1.5M U= 1.8M/SEC AT 7M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKFW	KURT	AZIMUTH	E/G	EU/G	CI(E/G)	CI(EU/G)
METERS	DEG	DEG			DEG	SEC/CM	1/30,M	SEC/30,M	1/M
200	105.0	15.06	-0.171	1.967	118.0	2.05E-04	3.69E-04	1.98E-02	3.57E-02
					116.0	1.88E-04	3.39E-04		
					120.0	1.73E-04	3.12E-04		
800	104.1	15.81	0.029	2.246	84.0	2.02E-05	3.64E-05	8.94E-03	1.61E-02
					88.0	1.96E-05	3.53E-05		
					90.0	1.89E-05	3.40E-05		
1600	100.6	12.69	0.714	2.509	90.0	7.40E-06	1.40E-05	3.55E-03	6.39E-03
					89.0	7.06E-06	1.27E-05		
					88.0	6.17E-06	1.11E-05		
3200	95.0	5.37	-0.156	4.570	96.0	2.66E-06	4.78E-06	1.51E-03	2.72E-03
					92.0	2.20E-06	3.95E-06		
					93.0	2.17E-06	3.91E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 400, 1600 AND 3200 M APCS.
ALL OF THE ARCS ENBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.
19 OF THE 20 TOWERS WERE "HIT" BY THE TRACER

TEST FT9 JULY 2, 1963 0322 TO 0422 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M									
SAMPLER HT 1.5M U= 3.2M/SEC AT 7M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/O	EU/O	CI(E/O)	CI(EU/O)
METERS	DEG	DEG			DEG	SEC/CM	1/30,M	SEC/30,M	1/M
200	112.07	8.467	-0.9897	3.3547	120.07	7.75E-057	2.48E-047	3.50E-037	1.12E-027
					118.07	7.13E-057	2.28E-047		
					116.07	6.82E-057	2.18E-047		
800	109.2	11.74	-0.325	1.650	118.0	1.49E-05	4.78E-05	3.55E-03	1.14E-02
					116.0	1.21E-05	3.86E-05		
					98.0	9.83E-06	3.15E-05		
1600	108.0	10.58	0.080	1.437	97.0	7.20E-06	2.30E-05	2.18E-03	6.96E-03
					96.0	5.78E-06	1.85E-05		
					98.0	5.77E-06	1.85E-05		
3200	114.3	8.22	-0.420	1.970	102.0	1.42E-06	4.53E-06	1.02E-03	3.26E-03
					124.0	1.30E-06	4.17E-06		
					118.0	1.16E-06	3.71E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 400, 1600 AND 3200 M ARCS.
THE ARCS ENBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.
8 OF 20 TOWERS WERE "HIT" BY THE TRACER

TEST FT10 JULY 11, 1963 0221 TO 0300 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M									
SAMPLER HT 1.5M U= 2.6M/SEC AT 7M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/O	EU/O	CI(E/O)	CI(EU/O)
METERS	DEG	DEG			DEG	SEC/CM	1/30,M	SEC/30,M	1/M
200	91.0	8.85	-0.678	2.517	96.0	3.23E-05	8.40E-05	1.51E-03	3.93E-03
					94.0	2.77E-05	7.21E-05		
					98.0	2.50E-05	6.51E-05		
800	92.1	7.16	-0.401	2.599	94.0	4.86E-05	1.26E-04	7.35E-03	1.91E-02
					98.0	3.99E-05	1.04E-04		
					88.0	2.60E-05	6.77E-05		
1600	90.2	4.87	-0.629	4.703	91.0	2.29E-05	5.95E-05	6.33E-03	1.65E-02
					92.0	2.28E-05	5.93E-05		
					93.0	1.94E-05	5.04E-05		
3200	87.4	6.16	-0.277	3.175	88.0	5.96E-06	1.55E-05	4.43E-03	1.15E-02
					90.0	5.33E-06	1.39E-05		
					87.0	5.27E-06	1.37E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS. ALL OF THE ARCS ENBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 11 OF THE 20 TOWERS WERE "HIT" BY THE TRACER

TEST FT11 JULY 16, 1963 0300 TO 0341 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M									
SAMPLER HT 1.5M U= 2.9M/SEC AT 7M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CL.M	1/SQ.M	SEC/SQ.M	1/M
200	99.4	4.14	-0.597	5.023	100.0	5.06E-05	1.47E-04	1.56E-03	4.53E-03
					102.0	4.18E-05	1.21E-04		
					98.0	3.26E-05	9.45E-05		
800	99.0	3.68	-0.004	2.095	98.0	9.76E-05	2.63E-04	1.11E-02	3.23E-02
					102.0	9.56E-05	2.77E-04		
					96.0	7.55E-05	2.19E-04		
1600	98.7	3.47	-0.313	2.579	102.0	3.39E-05	9.82E-05	9.36E-03	2.71E-02
					103.0	3.30E-05	9.56E-05		
					96.0	3.24E-05	9.39E-05		
3200	99.07	4.437	-0.4047	2.7467	97.07	1.04E-05?	3.01E-05?	6.00E-03?	1.74E-02?
					102.07	1.01E-05?	2.93E-05?		
					98.07	9.33E-06?	2.71E-05?		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS. NONE OF THE ARCS ENBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 4 OF THE 20 TOWERS WERE "HIT" BY THE TRACER

TEST FT12 JULY 16, 1963 0410 TO 0440 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M									
SAMPLER HT 1.5M U= 1.8M/SEC AT 7M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CL.M	1/SQ.M	SEC/SQ.M	1/M
200	81.0X	10.41X	1.096X	3.232X	74.0X	5.22E-05X	9.40E-05X	2.72E-03X	4.90E-03X
					76.0X	4.96E-05X	8.92E-05X		
					78.0X	3.78E-05X	6.81E-05X		
800	76.8X	4.90X	0.318X	2.112X	72.0X	2.45E-05X	4.40E-05X	4.41E-03X	7.93E-03X
					76.0X	2.18E-05X	3.92E-05X		
					78.0X	2.13E-05X	3.83E-05X		
1600	80.6X	5.72X	0.105X	2.440X	82.0X	9.77E-06X	1.76E-05X	3.31E-03X	5.97E-03X
					84.0X	7.96E-06X	1.43E-05X		
					81.0X	7.63E-06X	1.37E-05X		
3200	89.2X	7.97X	0.345X	2.957X	88.0X	5.14E-06X	9.25E-06X	5.49E-03X	9.87E-03X
					90.0X	5.02E-06X	9.04E-06X		
					89.0X	4.99E-06X	8.97E-06X		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS.
ALL OF THE ARCS EMPRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.
15 OF THE 20 TOWERS ARE "HIT" BY THE TRACER; 6 OF 15 VERTICAL
DISTRIBUTIONS ARE TRUNCATED AT THE TOP. MANY FILTERS ON THE TOWERS
ARE DAMAGED.

TEST FT13 AUGUST 6, 1963 0511 TO 0537 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M									
SAMPLER HT 1.5M U= 1.3M/SEC AT 7M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/G	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/80,M	SEC/80,M	1/M
200	109.2	6.49	-1.878	10.707	110.0	2.83E-05	3.68E-05	1.09E-03	1.41E-03
					108.0	2.68E-05	3.48E-05		
					106.0	1.92E-05	2.50E-05		
800	114.2	3.20	0.208	2.792	112.0	1.42E-04	1.84E-04	1.67E-02	2.17E-02
					114.0	1.37E-04	1.78E-04		
					116.0	1.16E-04	1.50E-04		
1600	115.7	4.11	-0.804	3.064	118.0	6.65E-05	8.65E-05	1.26E-02	1.64E-02
					117.0	6.11E-05	7.94E-05		
					119.0	4.78E-05	6.21E-05		
3200	117.8	3.61	-6.476	80.397	119.0	1.02E-05	1.32E-05	2.72E-03	3.54E-03
					117.0	6.59E-06	8.57E-06		
					120.0	5.84E-06	7.59E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS. ALL
OF THE ARCS EMPRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.
18 OF THE 20 TOWERS ARE "HIT" BY THE TRACER

TEST FT14 AUGUST 22, 1963 0244 TO 0327 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M									
SAMPLER HT 1.5M U= 2.8M/SEC AT 7M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/G	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/80,M	SEC/80,M	1/M
200	115.1	6.52	-0.853	3.948	118.0	2.79E-04	7.81E-04	1.15E-02	3.21E-02
					116.0	2.56E-04	7.18E-04		
					114.0	1.80E-04	5.04E-04		
800	110.6	8.73	-0.779	2.543	118.0	4.24E-05	1.19E-04	8.03E-03	2.25E-02
					116.0	3.38E-05	9.47E-05		
					120.0	3.11E-05	8.72E-05		
1600	107.3	8.04	-0.212	1.859	116.0	1.40E-05	3.92E-05	4.47E-03	1.25E-02
					115.0	1.20E-05	3.36E-05		
					117.0	1.17E-05	3.29E-05		
3200	107.9	5.93	-0.331	2.328	113.0	4.15E-06	1.16E-05	3.58E-03	1.00E-02
					109.0	4.07E-06	1.14E-05		
					105.0	4.01E-06	1.12E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS, ALL OF THE ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION, ALL OF THE TOWERS ARE "HIT" BY THE TRACER

TEST FT15 AUGUST 27, 1963 0224 TO 0301 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M									
SAMPLER HT 1.5M U= 2.2M/SEC AT 7M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/8Q,M	SEC/8Q,M	1/M
200	119.8	9.20	-0.547	2.673	130.0	4.43E-05	9.74E-05	2.58E-03	5.68E-03
					126.0	4.08E-05	8.98E-05		
					128.0	3.41E-05	7.50E-05		
800	119.9	7.10	-1.209	6.194	118.0	9.46E-05	2.06E-04	1.71E-02	3.75E-02
					116.0	9.42E-05	2.07E-04		
					128.0	7.80E-05	1.72E-04		
1600	120.3	7.47	-1.265	10.082	119.0	2.80E-05	6.17E-05	1.20E-02	2.64E-02
					126.0	2.68E-05	5.90E-05		
					128.0	2.55E-05	5.62E-05		
3200	115.9	7.04	-0.554	5.072	112.0	7.28E-06	1.60E-05	5.00E-03	1.28E-02
					113.0	6.60E-06	1.45E-05		
					119.0	6.09E-06	1.34E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS, THE ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION, 19 OF 20 TOWERS ARE "HIT" BY THE TRACER

TEST FT16 SEPTEMBER 6, 1963 0402 TO 0444 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M									
SAMPLER HT 1.5M U= 1.4M/SEC AT 7M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/8Q,M	SEC/8Q,M	1/M
200	115.9	19.43	0.227	1.995	104.0	1.00E-05	1.40E-05	8.41E-04	1.18E-03
					102.0	9.73E-06	1.36E-05		
					100.0	7.22E-06	1.01E-05		
800	121.2	10.29	-0.985	4.257	130.0	4.78E-05	6.69E-05	1.23E-02	1.72E-02
					128.0	3.90E-05	5.46E-05		
					118.0	3.66E-05	5.12E-05		
1600	122.3	9.54	-1.551	6.492	128.0	6.92E-05	9.68E-05	2.99E-02	4.19E-02
					130.0	6.76E-05	9.46E-05		
					129.0	6.33E-05	8.86E-05		
3200	103.8	10.93	-0.268	2.740	103.0	5.74E-06	8.04E-06	7.09E-03	9.43E-03
					107.0	5.37E-06	7.52E-06		
					104.0	5.27E-06	7.38E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS. NONE OF THE ARCS ENBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 19 OF 20 TOWERS ARE "HIT" BY THE TRACER

TEST FT17 OCTOBER 8, 1963 0451 TO 0521 PST									
7INC SULFIDE RELEASE FROM ELEVATION OF 7M									
SAMPLER HT 1.5M U= 1.6M/SEC AT 7M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/G	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/SQ,M	SEC/SQ,M	1/M
200	109.4X	20.85X	0.828X	2.705X	94.0	3.23E-05	5.17E-05	3.93E-03X	6.28E-03X
					98.0	2.87E-05	4.59E-05		
					96.0	2.86E-05	4.58E-05		
800	133.0X	13.06X	-0.867X	4.641X	132.0	4.91E-05	7.86E-05	1.55E-02X	2.48E-02X
					134.0	4.43E-05	7.08E-05		
					128.0	4.21E-05	6.74E-05		
1600	120.3X	10.40X	-0.459X	4.353X	115.0	3.14E-05	5.02E-05	1.57E-02X	2.52E-02X
					116.0	2.87E-05	4.59E-05		
					117.0	2.52E-05	4.03E-05		
3200	108.4X	8.67X	-1.931X	7.259X	110.0X	2.71E-06X	4.33E-06X	1.30E-03X	2.08E-03X
					109.0X	2.27E-06X	3.64E-06X		
					111.0X	1.95E-06X	3.12E-06X		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS. 3 OF THE ARCS ENBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 11 OF 20 TOWERS ARE "HIT" BY THE TRACER; ALL VERTICAL DISTRIBUTIONS ARE TRUNCATED AT THE TOP.

TEST FT18 OCTOBER 10, 1963 0841 TO 1000 PST									
7INC SULFIDE RELEASE FROM ELEVATION OF 7M									
SAMPLER HT 1.5M U= 3.8M/SEC AT 7M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	F/G	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/SQ,M	SEC/SQ,M	1/M
200	132.3X	10.65X	0.330X	2.672X	128.0	1.10E-04	4.18E-04	7.38E-03X	2.81E-02X
					124.0	9.44E-05	3.59E-04		
					136.0	8.77E-05	3.33E-04		
800	132.1	9.09	0.430	2.908	128.0?	3.69E-06?	1.40E-05?	1.06E-03	4.02E-03
					126.0?	3.36E-06?	1.28E-05?		
					130.0?	3.10E-06?	1.18E-05?		
1600	135.8	7.68	0.185	2.457	137.0	8.84E-07	3.36E-06	3.62E-04	1.38E-03
					131.0	7.86E-07	2.99E-06		
					139.0	7.86E-07	2.99E-06		
3200	142.5	10.77	-0.409	4.410	145.0?	1.69E-07?	6.43E-07?	2.77E-04	1.05E-03
					135.0?	1.68E-07?	6.39E-07?		
					142.0?	1.53E-07?	5.82E-07?		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS;
GROUND LEVEL SAMPLING ONLY AT 12800 M ARC. 4 OF THE 5 ARCS EMBRACE
THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 18 OF 20 TOWERS
ARE "HIT" BY THE TRACER

TEST #1 MAY 13, 1964 0355 TO 0433 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M U= 6.4M/SEC AT 56M									
DISTANCE FROM SOURCE	MEAN	STAND DEV	CROSSWIND COEFFICIENT	DISTRIBUTION	THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
			SKEN	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/80,M	SEC/80,M	1/M
200	100.4X	21.48X	0.924X	3.682X	100.0X 102.0X 122.0X	1.61E-07X 9.14E-08X 5.91E-08X	1.10E-06X 6.72E-07X 4.02E-07X	1.20E-05X	8.18E-05X
800	113.0	2.84	0.545	6.420	112.0 114.0 116.0	3.44E-06 1.82E-06 1.43E-06	2.34E-05 1.23E-05 9.71E-06	2.29E-04	1.55E-03
1600	114.0	2.91	0.551	3.853	118.0 119.0 117.0	6.07E-06 3.93E-06 3.38E-06	4.13E-05 2.67E-05 2.30E-05	7.92E-04	5.39E-03
3200	119.0	2.91	1.262	13.271	118.0 119.0 120.0	5.95E-06 5.13E-06 3.35E-06	4.04E-05 3.49E-05 2.28E-05	1.66E-03	1.13E-02
12800	120.8	2.95	-1.793	15.095	122.0 121.0 120.0	6.98E-07 4.81E-07 3.75E-07	4.75E-06 3.27E-06 2.35E-06	6.47E-04	4.40E-03

? INDICATES UNCERTAINTIES IN DATA.

* INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS;
GROUND LEVEL SAMPLING ONLY AT 12800 M ARC. 2 OF 5 ARCS EMBRACE THE
CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 12 OF 20 TOWERS ARE
"HIT" BY THE TRACER

TEST #2 MAY 26, 1964 0341 TO 0407 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M U= 5.7M/SEC AT 56M									
DISTANCE FROM SOURCE	MEAN	STAND DEV	CROSSWIND COEFFICIENT	DISTRIBUTION	THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
			SKEN	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/80,M	SEC/80,M	1/M
200	109.5X	6.97X	0.976X	2.817X	110.0X 102.0X 104.0X	2.02E-08X 1.85E-08X 1.64E-08X	1.15E-07X 1.06E-07X 9.59E-08X	1.24E-06X	7.06E-06X
800	110.4X	2.55X	0.090X	1.288X	108.0X 112.0X 114.0X	3.91E-08X 2.52E-08X 2.03E-08X	2.23E-07X 1.44E-07X 1.16E-07X	4.09E-06X	2.33E-05X
1600	107.3	4.12	-0.637	2.194	111.0 109.0 106.0	4.33E-07 1.64E-07 1.46E-07	2.47E-06 9.35E-07 8.32E-07	4.63E-05	2.64E-04
3200	108.1	5.18	-2.599	14.335	113.0 109.0 108.0	1.34E-06 1.32E-06 1.25E-06	7.65E-06 7.54E-06 7.12E-06	3.79E-04	2.16E-03
12800	117.0X	6.16X	0.285X	1.847X	110.0X 123.0X 117.0X	1.19E-08X 5.90E-09X 4.71E-09X	6.77E-08X 3.36E-08X 2.68E-08X	1.69E-05X	9.65E-05X

? INDICATES UNCERTAINTIES IN DATA.

* INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS;
GROUND LEVEL SAMPLING ONLY AT THE 12800 M ARC. 3 OF THE 5 ARCS ENBRACE
THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 16 OF THE 20 TOWERS ARE
"HIT" BY THE TRACER.

TEST 94 JUNE 10, 1964 0218 TO 0244 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M U= 6.5M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	142.0X	0.00X	0.000X	0.000X	142.0X	1.09E-08X	7.11E-08X		
800	103.4	3.97	0.047	3.746	104.0 106.0 102.0	1.43E-06 8.53E-07 8.17E-07	9.27E-06 5.54E-06 5.31E-06	1.36E-04	8.81E-04
1600	109.5	6.01	0.645	3.206	108.0 107.0 106.0	1.66E-06 1.45E-06 1.27E-06	1.08E-05 9.42E-06 8.27E-06	5.25E-04	3.41E-03
3200	117.4	7.19	1.167	4.088	112.0 114.0 113.0	1.49E-06 1.46E-06 1.33E-06	9.66E-06 9.52E-06 8.68E-06	8.01E-04	5.21E-03
12800	122.2X	5.64X	-1.174X	6.620X	129.0X 126.0X 123.0X	1.50E-07X 1.26E-07X 1.12E-07X	9.75E-07X 7.83E-07X 7.27E-07X	3.00E-04X	1.95E-03X

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 1600 AND 3200 M ARCS; GROUND
LEVEL SAMPLING ONLY AT 7000 AND 12800 M ARCS.

TEST 85 JUNE 24, 1964 0154 TO 0226 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M U= 6.0M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/O	EU/O	CI(E/O)	CI(EU/O)
METERS	DEG	DEG			DEG	SEC/CU,M	1/80,M	SEC/80,M	1/M
1600	131.9X	12.54X	0.284X	1.751X	129.0 124.0 126.0	3.16E-07 3.11E-07 2.99E-07	1.89E-06 1.87E-06 1.80E-06	2.03E-04	1.22E-03
3200	133.9X	8.20X	0.474X	7.138X	136.0 134.0 130.0	2.28E-07 2.10E-07 1.81E-07	1.37E-06 1.26E-06 1.09E-06	1.46E-04	8.75E-04
7000	130.0X	0.00X	0.474X	7.138X	130.0X	2.54E-09X	1.52E-08X		
12800	110.6X	9.51X	0.168X	2.522X	107.0X 108.0X 106.0X	6.38E-08X 1.64E-08X 1.60E-08X	3.83E-07X 9.86E-08X 9.59E-08X	1.68E-04X	1.01E-03X

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 1600 AND 3200 M ARCS; GROUND LEVEL
SAMPLING ONLY AT 7000 AND 12800 M ARCS.

TEST 86 JUNE 30, 1964 0252 TO 0312 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M U= 3.2M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/O	EU/O	CI(E/O)	CI(EU/O)
METERS	DEG	DEG			DEG	SEC/CU,M	1/80,M	SEC/80,M	1/M
1600	141.4X	4.83X	0.216X	2.271X	141.0 137.0 145.0	5.71E-06 5.40E-06 4.45E-06	1.83E-05 1.73E-05 1.42E-05	1.73E-03	5.54E-03
3200	144.6	4.67	0.059	2.202	145.0 140.0 148.0	2.89E-06 2.68E-06 2.57E-06	9.24E-06 8.56E-06 8.22E-06	2.02E-03	6.46E-03
7000	138.0X	0.00X	0.059X	2.202X	138.0X	4.57E-09X	1.46E-08X		
12800	114.1X	14.04X	-0.351X	1.693X	130.0X 129.0X 103.0X	6.43E-09X 4.25E-09X 3.42E-09X	2.06E-08X 1.36E-08X 1.10E-08X	5.18E-05X	1.66E-04X

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS.
ALL ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.
17 OF THE 20 TOWERS ARE "HIT" BY THE TRACER

TEST 87 JULY 8, 1964 0359 TO 0424 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M U= 8.1M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/SQ,M	SEC/8Q,M	1/M
200	120.1	3.60	2.383	18.939	120.0	6.69E-06	5.42E-05	8.20E-05	6.64E-04
					116.0	1.71E-07	1.39E-06		
					110.0	1.38E-07	1.12E-06		
800	121.3	12.37	-0.151	1.918	120.0	5.33E-07	4.32E-06	1.72E-04	1.40E-03
					134.0	5.29E-07	4.28E-06		
					130.0	3.77E-07	3.05E-06		
1600	107.6	4.73	0.630	2.699	108.0	6.48E-07	5.25E-06	1.19E-04	9.67E-04
					102.0	5.93E-07	4.80E-06		
					107.0	3.94E-07	3.19E-06		
3200	112.3	5.11	0.708	3.133	113.0	2.07E-06	1.68E-05	8.91E-04	7.22E-03
					112.0	2.04E-06	1.65E-05		
					111.0	1.60E-06	1.30E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 1600 AND 3200 M ARCS; GROUND LEVEL SAMPLING ONLY AT 7000 AND 12800 M ARCS. 2 OF THE 4 ARCS EXBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 7 OF 10 TOWERS ARE "HIT" BY THE TRACER.

TEST 88 JULY 14, 1964 0144 TO 0244 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M U= 5.6M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/SQ,M	SEC/8Q,M	1/M
1600	132.5	5.32	-2.691	11.547	133.0	1.70E-06	9.54E-06	3.42E-04	1.91E-03
					134.0	1.63E-06	9.11E-06		
					132.0	1.30E-06	7.26E-06		
3200	136.4	6.87	-0.075	5.906	135.0	2.57E-06	1.44E-05	1.09E-03	6.09E-03
					136.0	2.45E-06	1.37E-05		
					134.0	2.03E-06	1.13E-05		
7000	132.7X	6.64X	-1.126X	3.581X	138.0X	1.07E-06X	8.24E-06X	2.65E-03X	1.48E-02X
					134.0X	4.56E-07X	2.55E-06X		
					126.0X	3.88E-07X	2.17E-06X		
12800	108.9X	8.24X	0.215X	2.329X	107.0X	1.94E-07X	1.08E-06X	1.05E-03X	5.86E-03X
					105.0X	1.65E-07X	9.22E-07X		
					102.0X	1.41E-07X	7.91E-07X		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 1600 AND 3200 M ARCS; GROUND LEVEL SAMPLING ONLY AT 7000 AND 12000 M ARCS. 3 OF THE 4 ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 5 OF THE 10 TOWERS ARE "HIT" BY THE TRACER; 5 OF 5 VERTICAL DISTRIBUTIONS ARE TRUNCATED AT THE TOP.

TEST 89 JULY 23, 1964 0145 TO 0245 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M U= 4.8M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/90,M	SEC/90,M	1/M
1600	96.8	6.75	-0.833	3.264	101.0	2.29E-06	1.10E-05	7.24E-04	3.48E-03
					102.0	1.83E-06	8.77E-06		
					103.0	1.76E-06	8.46E-06		
3200	97.8	6.38	-0.260	2.406	102.0	1.58E-06	7.58E-06	1.30E-03	6.23E-03
					98.0	1.49E-06	7.15E-06		
					96.0	1.29E-06	6.21E-06		
7000	101.3X	2.41X	0.101X	2.785X	102.0	1.08E-06	5.17E-06	1.58E-03X	7.60E-03X
					98.0X	5.14E-07X	2.47E-06X		
					106.0X	1.79E-07X	8.50E-07X		
12000	105.7	2.60	-0.062	2.863	107.0	6.55E-07	3.14E-06	1.83E-03	8.81E-03
					108.0	6.04E-07	2.90E-06		
					105.0	5.12E-07	2.46E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 1600 AND 3200 M ARCS. GROUND LEVEL SAMPLING ONLY AT 7000 AND 12000 M ARCS. ALL ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 8 OF THE 10 TOWERS ARE "HIT" BY THE TRACER

TEST 810 JULY 30, 1964 0127 TO 0227 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M									
SAMPLER HT 1.5M U= 6.3M/SEC AT 56M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/90,M	SEC/90,M	1/M
1600	117.1	7.01	0.064	2.499	117.0	2.32E-06	1.46E-05	4.96E-04	3.12E-03
					116.0	2.17E-06	1.37E-05		
					115.0	2.02E-06	1.28E-05		
3200	120.4	7.14	-1.615	7.677	120.0	2.03E-06	1.28E-05	1.32E-03	8.30E-03
					121.0	1.97E-06	1.24E-05		
					119.0	1.82E-06	1.14E-05		
7000	120.0	5.08	-0.565	2.547	122.0	1.02E-06	6.43E-06	2.88E-03	1.81E-02
					126.0	8.24E-07	5.19E-06		
					118.0	5.79E-07	3.65E-06		
12000	112.9	5.09	-0.983	6.932	115.0	1.65E-07	1.04E-06	6.53E-04	4.11E-03
					117.0	1.64E-07	1.03E-06		
					113.0	1.56E-07	9.83E-07		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 1600 AND 3200 M ARCS; GROUND LEVEL SAMPLING ONLY AT 7000 AND 12800 M ARCS. NONE OF THE ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 1 OF THE 10 TOWERS ARE "HIT" BY THE TRACER.

TEST S11 AUGUST 6, 1964 0140 TO 0201 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M UM 7.3M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEN	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/80,M	SEC/80,M	1/M
1600	142.5X	0.87X	1.155X	2.333X	142.0X 144.0X	1.46E-07X 4.86E-08X	1.07E-06X 3.56E-07X	1.09E-05X	7.99E-05X
3200	142.7X	8.16X	0.846X	2.379X	135.0X 137.0X 138.0X	5.29E-07X 5.12E-07X 3.86E-07X	1.86E-06X 5.74E-06X 2.82E-06X	2.09E-04X	1.52E-03X
7000	138.0X	0.00X	0.846X	2.379X	138.0X	9.37E-08X	1.84E-07X	0.00E+00X	0.00E+00X
12800	129.0X	0.00X	0.846X	2.379X	129.0X	7.78E-09X	5.68E-08X	0.00E+00X	0.00E+00X

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 1600 AND 3200 M ARCS; GROUND LEVEL SAMPLING ONLY AT 7000 AND 12800 M ARCS. ALL THE ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 7 OF 10 TOWERS ARE "HIT" BY THE TRACER.

TEST S12 AUGUST 11, 1964 0138 TO 0235 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M UM 7.3M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEN	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/80,M	SEC/80,M	1/M
1600	108.7	2.75	-0.591	3.537	108.0 111.0 109.0	4.60E-07 4.39E-07 4.03E-07	3.36E-06 3.21E-06 2.94E-06	6.57E-05	4.79E-04
3200	109.3	2.80	0.292	12.100	111.0 110.0 112.0	1.87E-06 1.54E-06 1.42E-06	1.36E-05 1.12E-05 1.04E-05	5.53E-04	4.03E-03
7000	112.4	4.22	1.540	11.352	110.0 114.0 118.0	3.39E-07 3.22E-07 1.03E-07	2.48E-06 2.35E-06 7.51E-07	7.73E-04	5.64E-03
12800	117.6	2.73	0.450	4.952	118.0 116.0 120.0	3.01E-07 2.44E-07 1.84E-07	2.20E-06 1.78E-06 1.34E-06	5.84E-04	4.26E-03

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 1600 AND 3200 M ARCS; GROUND LEVEL SAMPLING ONLY AT 7000 AND 12800 M ARCS. NONE OF THE ARCS ENRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. THE TRACER WAS NOT DETECTED ON THE 1600 M ARC. 6 OF THE 10 TOWERS ARE "HIT" BY THE TRACER.

TEST S13 AUGUST 21, 1964 0118 TO 0230 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
SAMPLER HT 1.5M U= 7.0M/SEC AT 111M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/30,M	SEC/30,M	1/M
3200	97.8X	17.14X	0.097X	1.857X	125.0X 72.0X 77.0X	5.50E-08X 4.13E-08X 3.36E-08X	3.05E-07X 2.09E-07X 2.35E-07X	4.53E-05X	3.17E-04X
7000	125.0X	6.37X	-1.923X	7.065X	126.0X 130.0X 122.0X	1.12E-07X 1.01E-07X 2.87E-08X	7.81E-07X 7.04E-07X 2.01E-07X	2.56E-04X	1.79E-03X
12800	112.8X	8.85X	0.251X	2.346X	112.0X 118.0X 106.0X	1.21E-08X 6.72E-09X 6.42E-09X	8.47E-08X 4.71E-08X 4.50E-08X	4.92E-05X	3.44E-04X

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 1600, 3200, 7000 AND 12800 M ARCS. 1 OF THE 4 ARCS ENRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST S14 SEPTEMBER 1, 1964 0255 TO 0337 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
SAMPLER HT 1.5M U= 7.2M/SEC AT 111M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/30,M	SEC/30,M	1/M
1600	149.5X	1.80X	0.287X	2.088X	149.0X 147.0X 152.0X	1.50E-07X 9.96E-08X 7.51E-08X	1.08E-06X 7.17E-07X 5.41E-07X	1.41E-05X	1.01E-04X
3200	147.5	7.00	-2.874	13.392	150.0 152.0 149.0	2.58E-07 1.94E-07 1.53E-07	1.86E-06 1.39E-06 1.10E-06	1.14E-04	8.19E-04
12800	133.1X	5.73X	-0.711X	2.022X	138.0X 126.0X 130.0X	5.18E-08X 1.49E-08X 1.39E-08X	3.73E-07X 1.08E-07X 1.00E-07X	9.26E-05X	6.67E-04X
25600	126.3X	3.71X	-1.713X	8.600X	130.0X 129.0X 122.0X	3.64E-08X 2.44E-08X 2.02E-08X	2.62E-07X 1.76E-07X 1.45E-07X	1.40E-04X	1.01E-03X

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 1600 AND 3200 M ARCS; GROUND LEVEL SAMPLING ONLY AT 7000 AND 12000 M ARCS. 1 OF THE 4 ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 6 OF 10 TOWERS ARE "HIT" BY THE TRACER

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TEST 915    SEPTEMBER 10, 1964    0246 TO 0332 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
SAMPLER HT 1.5M    U= 3.7M/SEC AT 111M
*****
DISTANCE      CROSSWIND DISTRIBUTION      THREE MAXIMUM EXPOSURES      CROSSWIND
FROM          STAND COEFFICIENT      *****      INTEGRATED VALUES
SOURCE        MEAN    DEV    SKEW    KURT      AZIMUTH    E/O    EU/O      CI(E/O)    CI(EU/O)
-----
METERS        DEG     DEG
1600    129.3X  6.36X -0.267X 2.036X  132.0X  9.92E-08X 3.67E-07X  2.03E-05X 7.52E-05X
          136.0X  3.91E-08X 1.45E-07X
          119.0X  3.76E-08X 1.39E-07X
3200    131.6  14.49  0.521  1.813  122.0  5.23E-08  1.94E-07  5.60E-05  2.07E-04
          150.0  5.10E-08  1.89E-07
          151.0  4.69E-08  1.74E-07
12800   119.6X 10.28X -0.515X 2.030X  122.0X  2.73E-08X 1.01E-07X  1.23E-04X 4.56E-04X
          126.0X  2.71E-08X 1.00E-07X
          102.0X  2.01E-08X 7.44E-08X
25600   118.2X  8.24X -0.406X 2.471X  116.0X  4.52E-08X 1.67E-07X  1.00E-04X 6.66E-04X
          121.0X  3.51E-08X 1.30E-07X
          108.0X  3.13E-08X 1.16E-07X

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? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS. ALL
THE ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 12
OF THE 20 TOWERS ARE "HIT" BY THE TRACER

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TEST Z1          APRIL 17, 1962    0449 TO 0528 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M    U= 6.5M/SEC AT 26M
*****
DISTANCE  CROSSWIND DISTRIBUTION  THREE MAXIMUM EXPOSURES  CROSSWIND
FROM      STAND  COEFFICIENT  *****  INTEGRATED VALUES
SOURCE    MEAN    DEV    SKEW    KURT    AZIMUTH  E/U    EU/Q    CI(E/Q)  CI(EU/Q)
*****
METERS    DEG     DEG
200       94.9   4.81  1.031  4.653   94.0  4.42E-05  2.87E-04  1.48E-03  9.62E-03
          96.0  4.02E-05  2.61E-04
          92.0  3.70E-05  2.41E-04
800       115.3  4.28  3.586  29.898  116.0  3.50E-05  2.27E-04  3.69E-03  2.40E-02
          118.0  2.68E-05  1.72E-04
          118.0  2.63E-05  1.71E-04
1600      117.9  2.38  -0.308  2.703   120.0  1.50E-05  9.74E-05  2.45E-03  1.60E-02
          119.0  1.47E-05  9.53E-05
          117.0  1.13E-05  7.37E-05
3200      119.6  1.93  0.180  2.788   119.0  8.21E-06  5.34E-05  1.87E-03  1.21E-02
          118.0  5.46E-06  3.55E-05
          121.0  4.55E-06  2.96E-05

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? INDICATES UNCERTAINTIES IN DATA.

x INDICATES INVALID OR INCOMPLETE DATA.

ZINC SULFIDE RELEASE. GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS. ALL OF THE ARCS EMBRACE THE FULL CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 17 OF 20 TOWERS ARE "HIT" BY THE TRACER.

TEST #12 MAY 19, 1964 0420 TO 0440 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 3.8M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/80,M	SEC/80,M	1/M
200	118.6	7.63	-0.754	3.456	120.0	2.61E-04	9.90E-04	1.31E-02	0.97E-02
					118.0	2.30E-04	8.75E-04		
					126.0	2.14E-04	8.15E-04		
800	115.1	6.32	-0.983	4.226	116.0	1.77E-05	6.72E-05	2.86E-03	1.09E-02
					120.0	1.50E-05	5.68E-05		
					118.0	1.31E-05	4.99E-05		
1600	112.5	5.98	2.565	10.470	112.0	5.80E-06	2.20E-05	1.71E-03	6.49E-03
					113.0	5.72E-06	2.17E-05		
					114.0	4.73E-06	1.80E-05		
3200	108.8	6.15	-3.649	22.109	110.0	2.18E-06	8.29E-06	9.96E-04	3.78E-03
					112.0	1.82E-06	6.91E-06		
					111.0	1.80E-06	6.83E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

FLUORESCIN RELEASE. GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS. NONE OF THE ARCS EMBRACE THE FULL CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. A SIGNIFICANT PORTION OF THE PLUME PASSED TO THE NORTH OF THE GRID. 5 OF 20 TOWERS ARE "HIT" BY THE TRACER.

TEST #12F MAY 19, 1964 0420 TO 0433 PST									
FLUORESCIN RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 3.8M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/80,M	SEC/80,M	1/M
200	110.1	9.16	0.442	2.635	106.0	1.48E-04	5.62E-04	8.80E-03	3.34E-02
					102.0	1.09E-04	4.16E-04		
					104.0	9.97E-05	3.79E-04		
800	108.3	7.80	0.539	2.462	102.0	1.24E-05	4.73E-05	2.36E-03	8.97E-03
					100.0	1.09E-05	4.14E-05		
					104.0	8.09E-06	3.08E-05		
1600	106.3	5.74	0.596	2.478	101.0	3.78E-06	1.44E-05	1.07E-03	4.08E-03
					102.0	3.59E-06	1.36E-05		
					100.0	3.37E-06	1.28E-05		
3200	105.3	4.85	0.249	2.278	101.0	1.30E-06	4.98E-06	6.00E-04	2.28E-03
					102.0	8.17E-07	3.10E-06		
					100.0	7.80E-07	2.96E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

ZINC SULFIDE RELEASE. GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS. NONE OF THE ARCS EMBRACE THE FULL CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. A SIGNIFICANT PORTION OF THE PLUME PASSED TO THE NORTH OF THE GRID. 15 OF 20 TOWERS ARE "HIT" BY THE TRACER.

TEST #13 JUNE 12, 1964 0343 TO 0404 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M WS 1.1M/SEC AT 2M									
DISTANCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND	
FROM	MEAN	STAND	COEFFICIENT					INTEGRATED VALUES	
SOURCE		DEV	SKEW	KURT	AZIMUTH	E/O	EU/O	CI(E/O)	CI(EU/O)
PETERS	DFG	DEG			DEG	SEC/CC,M	1/SG,M	SEC/SG,M	1/M
200	85.7X	6.72X	-0.080X	2.517X	86.0	7.95E-04	8.75E-04	4.99E-02X	5.49E-02X
					84.0	7.72E-04	8.49E-04		
					90.0	7.21E-04	7.93E-04		
800	87.0X	7.54X	-0.121X	2.358X	90.0	1.81E-04	1.55E-04	3.92E-02X	4.31E-02X
					86.0	1.34E-04	1.47E-04		
					88.0	1.32E-04	1.46E-04		
1600	86.1X	7.29X	0.051X	2.360X	86.0	2.80E-05	3.08E-05	1.58E-02X	1.74E-02X
					83.0	2.78E-05	3.06E-05		
					85.0	2.73E-05	3.01E-05		
3200	88.6X	7.48X	0.033X	2.335X	88.0	5.81E-06	6.39E-06	5.92E-03X	6.51E-03X
					86.0	5.62E-06	6.18E-06		
					92.0	5.56E-06	6.12E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

FLUOROSCEIN RELEASE. GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS. NONE OF THE ARCS ENBRACE THE FULL CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. A SIGNIFICANT PORTION OF THE PLUME PASSED TO THE NORTH OF THE GRID. 15 OF 20 TOWERS ARE "HIT" BY THE TRACER.

TEST #13F JUNE 12, 1964 0343 TO 0404 PST									
FLUOROSCEIN RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 1.1M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STDEV	COEFFICIENT	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/80.M	SEC/80.M	1/M
200	84.6X	6.53X	0.127X	2.861X	84.0	6.99E-04	7.69E-04	4.28E-02X	4.71E-02X
					82.0	6.85E-04	7.53E-04		
					86.0	6.77E-04	7.45E-04		
800	85.4X	7.37X	0.028X	2.456X	84.0	1.29E-04	1.42E-04	3.23E-02X	3.55E-02X
					80.0	1.12E-04	1.23E-04		
					86.0	1.06E-04	1.17E-04		
1600	85.1X	7.00X	0.212X	2.555X	83.0	3.38E-05	3.72E-05	1.71E-02X	1.89E-02X
					81.0	3.29E-05	3.62E-05		
					84.0	3.29E-05	3.62E-05		
3200	88.4X	7.37X	0.045X	2.316X	92.0	7.28E-06	8.01E-06	8.00E-03X	8.80E-03X
					86.0	7.17E-06	7.89E-06		
					91.0	7.17E-06	7.89E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS. ALL OF THE ARCS ENBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 17 OF 20 TOWERS ARE "HIT" BY THE TRACER

TEST #14 JUNE 26, 1964 0355 TO 0423 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 2.2M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STDEV	COEFFICIENT	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/80.M	SEC/80.M	1/M
200	117.7	4.61	-0.378	4.752	118.0	3.79E-04	8.33E-04	1.36E-02	2.99E-02
					120.0	3.56E-04	7.84E-04		
					116.0	2.98E-04	6.56E-04		
800	116.7?	4.03?	-0.260?	4.336?	118.0?	3.32E-05?	7.30E-05?	3.58E-03?	7.88E-03?
					116.0?	2.66E-05?	5.84E-05?		
					114.0?	1.74E-05?	3.82E-05?		
1600	115.9	3.88	-0.074	3.655	116.0	9.28E-06	2.04E-05	1.53E-03	3.37E-03
					117.0?	7.76E-06?	1.71E-05?		
					118.0?	6.19E-06?	1.36E-05?		
3200	113.6	4.09	0.407	3.729	113.0	2.24E-06	4.94E-06	7.89E-04	1.74E-03
					114.0	2.11E-06	4.64E-06		
					112.0	1.86E-06	4.10E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 800, 1600 AND 3200 M ARCS. ALL OF THE ARCS ENBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. ALL 15 TOWERS ARE "HIT" BY THE TRACER.

TEST X2 APRIL 3, 1964 0507 TO 0535 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M									
SAMPLER HT 1.5M U = 2.6M/SEC AT 7M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/80.M	SEC/80.M	1/M
800	110.9	3.43	-0.652	3.718	112.0	2.17E-04	5.65E-04	2.42E-02	6.29E-02
					114.0	1.75E-04	4.54E-04		
					110.0	1.72E-04	4.47E-04		
1600	109.3	3.59	-0.459	3.297	109.0	5.31E-05	1.38E-04	1.22E-02	3.17E-02
					110.0	5.05E-05	1.31E-04		
					108.0	4.47E-05	1.16E-04		
3200	106.0	6.23	-0.392	2.442	111.0	8.99E-06	2.34E-05	4.46E-03	1.16E-02
					112.0	8.76E-06	2.28E-05		
					110.0	7.17E-06	1.86E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS. ALL OF THE ARCS ENBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 19 OF 20 TOWERS ARE "HIT" BY THE TRACER.

TEST X4 APRIL 21, 1964 0436 TO 0502 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 7M									
SAMPLER HT 1.5M U = 2.6M/SEC AT 7M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/80.M	SEC/80.M	1/M
200	90.47	7.477	0.118?	3.171?	88.0?	5.11E-04?	1.33E-03?	2.65E-02?	6.88E-02?
					86.0?	4.69E-04?	1.22E-03?		
					92.0?	3.86E-04?	1.00E-03?		
800	91.7	6.21	-0.128	2.216	88.0	3.69E-05	9.59E-05	9.30E-03	2.42E-02
					96.0	3.67E-05	9.53E-05		
					90.0	3.54E-05	9.22E-05		
1600	95.3	6.44	-0.517	2.594	102.0	8.10E-06	2.11E-05	3.29E-03	8.55E-03
					101.0	7.52E-06	1.95E-05		
					100.0	7.38E-06	1.92E-05		
3200	100.4	4.90	-1.081	4.134	104.0	3.34E-06	8.69E-06	1.42E-03	3.78E-03
					103.0	3.22E-06	8.37E-06		
					105.0	2.67E-06	6.93E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200, 800, 1600 AND 3200 M ARCS.
 NONE OF THE ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.
 14 OF THE 20 TOWERS ARE "HIT" BY THE TRACER

TEST XE1 JANUARY 21, 1965 2235 TO 2305 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 SAMPLER HT 1.5M U= 1.5M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/30,M	SEC/30,M	1/M
200	80.4X	12.97X	1.193X	2.955X	72.0X 70.0X 74.0X	6.04E-04X 5.33E-04X 4.64E-04X	9.07E-04X 8.00E-04X 6.96E-04X	2.31E-02X	3.46E-02X
800	77.3X	7.56X	1.015X	6.240X	72.0X 76.0X 74.0X	8.05E-05X 7.90E-05X 7.05E-05X	1.21E-04X 1.18E-04X 1.06E-04X	1.32E-02X	1.98E-02X
1600	83.3X	8.47X	1.032X	6.261X	76.0X 77.0X 78.0X	9.81E-06X 9.00E-06X 8.67E-06X	1.47E-05X 1.35E-05X 1.30E-05X	2.40E-03X	3.60E-03X
3200	81.1X	11.04X	1.255X	3.553X	71.0X 72.0X 73.0X	3.76E-06X 3.14E-06X 2.52E-06X	5.65E-06X 4.70E-06X 3.77E-06X	1.77E-03X	2.66E-03X

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING AT 200, 800, 1600 AND 3200 M ARCS. ALL OF THE
 ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION.

TEST XEP FEBRUARY 28, 1965 0235 TO 0305 PST
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
 SAMPLER HT 1.5M U= 5.3M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/30,M	SEC/30,M	1/M
200	86.3	3.79	-0.187	3.155	86.0 88.0 84.0	3.28E-04 3.01E-04 2.47E-04	1.74E-03 1.60E-03 1.31E-03	1.05E-02	5.55E-02
800	85.1	2.68	0.041	3.437	84.0 86.0 88.0	3.16E-05 3.14E-05 1.38E-05	1.67E-04 1.67E-04 7.33E-05	2.89E-03	1.53E-02
1600	84.7	2.21	-0.082	3.396	84.0 85.0 86.0	9.37E-06 9.31E-06 6.89E-06	4.97E-05 4.93E-05 3.65E-05	1.35E-03	7.16E-03
3200	84.0	1.60	0.351	3.264	84.0 83.0 85.0	6.76E-06 6.05E-06 4.83E-06	3.58E-05 3.20E-05 2.56E-05	1.47E-03	7.82E-03

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

ZINC SULFIDE RELEASE. GROUND LEVEL AND TOWER SAMPLING AT 200, 800 AND 1600 M ARCS. ALL OF THE ARCS EMBRACE THE FULL CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 11 OF 15 TOWERS ARE "HIT" BY THE TRACER.

TEST YEAR JULY 15, 1965 0255 TO 0259 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 1.7M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)	
METERS	DEG	DEG		DEG	SEC/CM	1/80.M	SEC/80.M	1/M	
200	113.5	3.20	-0.427	6.120	110.0	7.19E-04	1.22E-03	1.81E-02	3.08E-02
					112.0	5.43E-04	9.24E-04		
					116.0	5.03E-04	8.55E-04		
800	113.9	2.81	-3.150	22.029	110.0	1.09E-04	1.06E-04	7.59E-03	1.29E-02
					112.0	7.74E-05	1.31E-04		
					116.0	5.99E-05	1.02E-04		
1600	112.8	2.45	-0.669	5.546	113.0	2.79E-05	4.75E-05	4.48E-03	7.54E-03
					112.0	2.66E-05	4.53E-05		
					114.0	2.09E-05	3.56E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

FLUOROSCEIN RELEASE. GROUND LEVEL AND TOWER SAMPLING AT 200, 800 AND 1600 M ARCS. ALL OF THE ARCS EMBRACE THE FULL CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 12 OF 15 TOWERS ARE "HIT" BY THE TRACER.

TEST YEAR JULY 15, 1965 0255 TO 0259 PST									
FLUOROSCEIN RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 1.7M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)	
METERS	DEG	DEG		DEG	SEC/CM	1/80.M	SEC/80.M	1/M	
200	112.8	3.29	-1.343	16.967	110.0	7.19E-04	1.22E-03	1.90E-02	3.24E-02
					112.0	6.33E-04	1.08E-03		
					116.0	4.46E-04	7.50E-04		
800	113.9?	2.98?	-3.774?	36.945?	110.0	1.22E-04	2.08E-04	8.86E-03?	1.51E-02?
					112.0	9.73E-05	1.65E-04		
					116.0	7.13E-05	1.21E-04		
1600	112.3	2.90	-1.668	10.248	113.0	3.21E-05	5.46E-05	5.20E-03	8.84E-03
					112.0	2.98E-05	5.07E-05		
					114.0	2.43E-05	4.13E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

ZINC SULFIDE RELEASE. GROUND LEVEL AND TOWER SAMPLING AT 200, 800 AND 1600 M ARCS. ALL OF THE ARCS EMBRACE THE FULL CROSSWIND EXTENT OF THE TRACKER DISTRIBUTION. 8 OF 15 TOWERS ARE "HIT" BY THE TRACKER.

TEST XE-# AUGUST 11, 1965 0300 TO 0308 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 2.2M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/SQ.M	SEC/SQ.M	1/M
200	104.1	4.43	-0.101	4.214	102.0	5.41E-04	1.19E-03	1.98E-02	4.35E-02
					104.0	5.40E-04	1.19E-03		
					106.0	4.02E-04	8.84E-04		
800	104.9	2.78	-0.699	6.177	104.0	7.46E-05	1.64E-04	5.59E-03	1.23E-02
					106.0	5.32E-05	1.17E-04		
					108.0	3.21E-05	7.07E-05		
1600	105.0	1.92	-0.525	6.404	104.0	1.95E-05	4.29E-05	2.50E-03	5.51E-03
					106.0	1.87E-05	4.11E-05		
					105.0	1.36E-05	3.00E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

FLUOROSCEIN RELEASE. GROUND LEVEL AND TOWER SAMPLING AT 200, 800 AND 1600 M ARCS. ALL OF THE ARCS EMBRACE THE FULL CROSSWIND EXTENT OF THE TRACKER DISTRIBUTION. 8 OF 15 TOWERS ARE "HIT" BY THE TRACKER.

TEST XE#F AUGUST 11, 1965 0300 TO 0308 PST									
FLUOROSCEIN RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 2.2M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/SQ.M	SEC/SQ.M	1/M
200	103.4	4.16	0.331	3.217	102.0	8.95E-04	1.97E-03	3.17E-02	6.98E-02
					104.0	8.64E-04	1.90E-03		
					106.0	7.10E-04	1.56E-03		
800	104.8	3.02	-0.632	8.230	104.0	1.10E-04	2.43E-04	8.43E-03	1.85E-02
					106.0	8.06E-05	1.77E-04		
					108.0	3.88E-05	8.54E-05		
1600	104.7	1.86	-0.090	4.278	104.0	4.53E-05	9.96E-05	4.85E-03	1.07E-02
					106.0	3.15E-05	6.93E-05		
					103.0	2.56E-05	5.63E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

ZINC SULFIDE RELEASE. GROUND LEVEL AND TOWER SAMPLING AT 200, 800 AND 1600 M ARCS. ALL OF THE ARCS EMBRACE THE FULL CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 6 OF 15 TOWERS ARE "HIT" BY THE TRACER.

TEST XE-S NOVEMBER 16, 1965 0612 TO 0618 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 2.2M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	119.4	2.85	0.198	3.292	118.0	8.36E-04	1.54E-03	2.19E-02	4.82E-02
					120.0	8.07E-04	1.78E-03		
					116.0	5.53E-04	1.22E-03		
800	121.4	2.11	0.032	3.196	122.0	1.25E-04	2.76E-04	9.61E-03	2.11E-02
					120.0	1.07E-04	2.35E-04		
					124.0	5.66E-05	1.25E-04		
1600	123.1	1.50	-0.185	3.222	123.0	5.41E-05	1.19E-04	5.79E-03	1.27E-02
					124.0	4.88E-05	1.07E-04		
					122.0	3.72E-05	8.19E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

FLUOROSCEIN RELEASE. GROUND LEVEL AND TOWER SAMPLING AT 200, 800 AND 1600 M ARCS. ALL OF THE ARCS EMBRACE THE FULL CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 7 OF 15 TOWERS ARE "HIT" BY THE TRACER.

TEST XE5F NOVEMBER 16, 1965 0612 TO 0618 PST
FLUOROSCEIN RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 2.2M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	120.4	2.77	0.146	2.974	120.0	5.00E-04	1.10E-03	1.33E-02	2.93E-02
					122.0	4.74E-04	1.04E-03		
					118.0	4.13E-04	9.09E-04		
800	121.4	2.35	0.505	3.314	120.0	6.94E-05	1.53E-04	4.15E-03	9.13E-03
					124.0	4.83E-05	1.06E-04		
					118.0	1.64E-05	3.60E-05		
1600	123.0	1.71	-0.727	5.664	123.0	4.09E-05	8.99E-05	4.33E-03	9.52E-03
					124.0	3.43E-05	7.55E-05		
					122.0	2.72E-05	5.98E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT THE 3200 M ARC; GROUND LEVEL SAMPLING ONLY AT THE 200 AND 800 M ARCS. ALL THE ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 2 OF THE 5 TOWERS ARE "HIT" BY THE TRACER.

TEST A-2 SEPTEMBER 2, 1966 1742 TO 1843 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 8.5M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/80,M	SEC/80,M	1/M
200	127.0	4.72	-0.144	3.217	126.0	1.71E-04	7.71E-04	6.38E-03	2.87E-02
					128.0	1.71E-04	7.71E-04		
					124.0	1.14E-04	5.12E-04		
800	127.9	3.83	0.164	2.633	126.0	1.27E-05	5.72E-05	1.55E-03	6.96E-03
					130.0	1.01E-05	4.54E-05		
					128.0	8.75E-06	3.94E-05		
3200	128.4	2.94	-0.188	2.385	129.0	1.01E-06	4.56E-06	3.94E-04	1.77E-03
					127.0	9.40E-07	4.23E-06		
					128.0	7.83E-07	3.34E-06		

? INDICATES UNCERTAINTIES IN DATA.

x INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT THE 3200 M ARC; GROUND LEVEL SAMPLING ONLY AT THE 800 M ARC. BOTH ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 3 OF THE 5 TOWERS ARE "HIT" BY THE TRACER.

TEST A-5 JUNE 6, 1967 0415 TO 0515 PST									
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M									
SAMPLER HT 1.5M U= 2.1M/SEC AT 2M									
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/80,M	SEC/80,M	1/M
800	119.4?	8.85?	-0.903?	2.638?	124.0?	1.89E-05?	3.97E-05?	2.66E-03?	5.59E-03?
					122.0?	1.72E-05?	3.62E-05?		
					126.0?	1.41E-05?	2.96E-05?		
3200	116.6	3.89	-0.003	2.485	116.0	9.69E-07	2.04E-06	4.12E-04	8.66E-04
					118.0	8.39E-07	1.76E-06		
					117.0	6.67E-07	1.40E-06		

? INDICATES UNCERTAINTIES IN DATA.

x INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT THE 3200 M ARC; GROUND LEVEL SAMPLING ONLY AT THE 800 M ARC. NEITHER ARC EMBRACES THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 1 OF THE 5 TOWERS ARE "HIT" BY THE TRACER.

TEST A-6 JUNE 8, 1967 0405 TO 0505 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 1.4M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	DEV	SKEN	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/SQ,M	SEC/SQ,M	1/M
800	87.4X	9.71X	0.089X	1.935X	88.0X 100.0X 84.0X	7.49E-06X 7.06E-06X 6.12E-06X	1.05E-05X 9.88E-06X 8.56E-06X	2.22E-03X	3.11E-03X
3200	81.2X	7.49X	0.281X	1.977X	72.0X 73.0X 71.0X	9.27E-07X 7.77E-07X 7.56E-07X	1.30E-06X 1.09E-06X 1.06E-06X	5.91E-04X	8.27E-04X

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT THE 3200 M ARC; GROUND LEVEL SAMPLING ONLY AT THE 800 M ARC. NEITHER ARC EMBRACES THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. ALL 5 TOWERS ARE "HIT" BY THE TRACER; ALL 5 TOWERS VERTICAL DISTRIBUTIONS ARE TRUNCATED AT THE TOP.

TEST A-7 JUNE 9, 1967 0345 TO 0440 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 2.6M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	DEV	SKEN	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU,M	1/SQ,M	SEC/SQ,M	1/M
800	135.8X	5.72X	-5.744X	54.526X	136.0 138.0 134.0	4.61E-05 4.30E-05 3.03E-05	1.20E-04 1.12E-04 7.88E-05	4.83E-03X	1.26E-02X
3200	128.1X	11.35X	-1.676X	6.270X	136.0 137.0 135.0	2.15E-06 1.63E-06 1.19E-06	5.58E-06 4.28E-06 3.10E-06	7.27E-04X	1.89E-03X

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT THE 3200 M ARC; GROUND LEVEL SAMPLING ONLY AT THE 800 M ARC. BOTH ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. ALL 5 TOWERS ARE "HIT" BY THE TRACER

TEST A-8 JUNE 14, 1967 0350 TO 0455 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M UR 1.9M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
800	104.0	7.30	-0.116	1.055	110.0 112.0 94.0	1.71E-04 1.48E-04 1.48E-04	3.25E-04 2.82E-04 2.81E-04	4.07E-02	7.72E-02
3200	104.9	7.81	-0.736	2.324	107.0 108.0 111.0	1.25E-05 1.19E-05 1.12E-05	2.37E-05 2.26E-05 2.14E-05	8.30E-03	1.58E-02

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT THE 3200 M ARC; GROUND LEVEL SAMPLING ONLY AT THE 800 M ARC. NEITHER ARC EMBRACES THE CROSSWIND EXTENT OF THE TRACER DISTRIBUTION. 4 OF THE 5 TOWERS ARE "HIT" BY THE TRACER

TEST A-9 JUNE 15, 1967 0352 TO 0446 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M UR 1.2M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
800	97.8X	17.30X	-0.181X	1.635X	118.0X 70.0X 120.0X	3.54E-05X 3.21E-05X 2.96E-05X	4.24E-05X 3.85E-05X 3.55E-05X	1.48E-02X	1.77E-02X
3200	97.6X	12.35X	-0.160X	2.280X	102.0X 103.0X 101.0X	3.83E-06X 3.50E-06X 2.98E-06X	4.59E-06X 4.20E-06X 3.58E-06X	4.05E-03X	5.33E-03X

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

APPENDIX C

METEOROLOGICAL DATA

APPENDIX C - METEOROLOGICAL DATA

30 SERIES

400 FT TOWER					PORTABLE MAST						
	HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)		HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)
FT-30	7	2.5	320	11.0	39.4	2.5	2.0		339		39.7
	50	3.4	327	10.9	38.3	5	2.5	M	M		39.2
	100	3.5	327	10.4	37.6	10	3.0		348		38.8
	150	3.4	328	10.7	37.3	20	3.4	M	M		38.4
	200	3.9	333	9.1	37.3	40	M		336		38.2
	250	4.0	324	8.5	36.8	80	M		342		38.0
	300	M	329	8.0	36.6						
400	3.6	328	7.3	36.4							
FT-31	7	3.4	307	8.8	39.4	2.5	1.7		327	M	M
	50	4.2	307	7.2	38.2	5	2.9	M	M		M
	100	4.6	307	5.4	37.5	10	M		318	M	M
	150	4.9	309	4.6	37.2	20	3.2	M	M		M
	200	5.0	313	5.0	37.2	40	M		320	M	M
	250	5.4	308	4.8	36.7	80	M		322	M	M
	300	4.9	313	4.9	36.7						
400	5.1	316	5.5	36.4							
FT-40	7	4.1	296	10.3	69.3	2.5	3.2	M	M		68.7
	50	5.7	301	9.7	67.2	5	3.1	M	M		68.1
	100	6.1	301	8.8	66.3	10	4.5		314	6.1	M
	150	6.6	295	8.4	66.0	20	4.9	M	M		67.1
	200	6.6	298	7.6	66.2	40	5.5		310	3.5	66.8
	250	6.8	299	7.1	65.6	80	5.6		318	3.8	66.1
	300	6.7	298	6.7	65.6						
400	6.9	295	6.1	65.3							
FT-41	7	6.7	308	4.6	68.5	2.5	4.3	M	M		66.6
	50	9.9	316	4.0	67.7	5	M	M	M		66.4
	100	10.5	312	3.5	67.0	10	5.7		326	3.4	66.3
	150	11.6	305	3.3	66.6	20	7.1	M	M		66.2
	200	11.8	309	3.2	67.0	40	M		323	4.7	65.9
	250	11.8	304	3.2	66.0	80	9.4		336	5.5	65.7
	300	12.6	310	2.0	65.9						
400	13.8	306	2.8	65.7							
FT-42	7	2.2	297	9.6	53.1	2.5	M	M	M		52.6
	50	5.0	284	11.2	56.1	5	3.5	M	M		53.0
	100	5.9	304	8.7	57.2	10	4.8	M	M		53.6
	150	6.5	307	8.2	57.8	20	M	M	M		54.3
	200	6.5	317	5.9	58.2	40	1.7	M	M		55.5
	250	6.2	317	5.3	58.2	80	M	M	M		56.9
	300	M	327	4.5	58.3						
400	6.8	325	5.1	58.1							

400 FT TOWER					PORTABLE MAST						
	HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (° F)		HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (° F)
FT-43	7	2.3	310	7.1	64.5		2.5	1.8	M	M	63.3
	50	4.2	318	5.8	65.8		5	M	M	M	63.4
	100	5.1	325	5.2	66.3		10	M	325	10.5	63.6
	150	6.0	316	11.9	68.5		20	3.0	M	M	63.7
	200	6.1	315	9.4	70.0		40	4.1	322	5.1	63.9
	250	5.8	309	8.3	69.0		80	5.2	331	5.6	64.7
	300	6.8	316	7.2	69.3						
400	7.7	307	5.8	70.5							
FT-44	7	2.1	297	12.0	57.4		2.5	M	M	M	56.4
	50	4.9	309	6.7	59.6		5	M	M	M	56.8
	100	6.3	304	4.8	60.3		10	M	307	18.0	57.3
	150	7.2	300	4.5	M		20	M	M	M	57.8
	200	7.1	311	5.7	64.0		40	M	313	6.8	58.5
	250	5.6	306	6.2	64.0		80	M	316	5.6	59.5
	300	5.4	318	7.7	64.1						
400	4.2	318	10.3	63.9							
FT-45	7	6.3	291	12.5	62.8		2.5	6.0	M	M	61.1
	50	9.1	299	11.1	58.7		5	M	M	M	60.8
	100	9.4	295	12.2	57.8		10	2.4	314	6.2	59.2
	150	10.0	290	11.9	M		20	8.3	M	M	58.4
	200	10.2	295	10.9	57.2		40	M	307	6.8	57.8
	250	10.0	293	10.7	56.7		80	11.1	312	8.4	57.1
	300	10.1	302	9.3	56.9						
400	10.3	292	9.4	56.6							
FT-46	7	1.6	308	9.6	46.6		2.5	1.5	M	M	46.2
	50	5.0	319	8.6	52.2		5	M	M	M	46.8
	100	5.0	322	12.0	54.2		10	2.4	325	7.8	47.4
	150	5.0	325	15.2	M		20	3.0	M	M	48.2
	200	4.7	334	16.0	54.5		40	4.4	323	5.5	50.0
	250	4.2	337	15.9	54.1		80	5.6	328	7.8	52.6
	300	4.5	348	19.3	54.0						
400	4.6	347	19.1	53.9							
FT-47	7	3.5	321	9.9	46.3		2.5	M	M	M	M
	50	4.5	319	11.0	45.0		5	M	M	M	M
	100	4.7	322	10.5	44.2		10	M	329	4.3	M
	150	5.1	317	10.4	M		20	M	M	M	M
	200	5.0	319	13.6	43.9		40	M	327	2.8	M
	250	4.8	323	13.2	43.3		80	M	339	2.0	M
	300	5.3	330	8.4	43.6						
400	4.5	314	8.3	43.2							

400 FT TOWER					PORTABLE MAST						
	HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (° F)		HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (° F)
FT-48	7	2.9	308	16.4	47.9		2.5	M	M	M	47.8
	50	3.7	317	15.6	46.6		5	M	M	M	47.7
	100	3.8	314	12.5	45.7		10	M	335	17.2	46.0
	150	4.2	311	12.2	M		20	4.1	M	M	45.4
	200	4.1	316	13.5	45.3		40	4.5	331	17.0	45.2
	250	4.1	312	13.6	44.6		80	M	336	19.1	42.5
	300	4.4	325	12.8	44.8						
	400	4.2	308	11.6	44.8						
FT-49	7	5.1	322	19.3	64.9		2.5	M	343	8.5	64.4
	50	6.9	325	20.5	61.9		5	M	M	M	63.8
	100	7.6	326	19.5	60.1		10	M	339	8.1	62.0
	150	8.0	323	18.1	M		20	M	M	M	61.1
	200	7.9	326	17.8	59.1		40	M	337	12.5	60.9
	250	8.0	321	18.1	M		80	M	327	12.1	59.6
	300	8.1	336	16.5	53.5						
	400	8.1	321	17.2	53.6						
FT-50	7	4.1	298	8.0	51.6		2.5	M	317	7.0	50.7
	50	6.5	304	6.9	52.5		5	M	M	M	50.9
	100	7.3	301	7.0	52.3		10	M	311	6.0	51.3
	150	8.3	296	6.3	M		20	M	M	M	51.5
	200	8.8	302	5.6	52.8		40	6.5	326	6.1	51.6
	250	M	296	4.8	52.8		80	M	313	6.5	51.9
	300	9.0	307	4.4	52.9						
	400	8.6	293	3.9	53.2						
FT-51	7	4.8	299	11.3	65.4		2.5	M	314	8.9	65.4
	50	6.2	303	10.0	62.5		5	M	M	M	63.8
	100	6.5	300	9.5	61.6		10	M	316	6.9	63.4
	150	6.8	296	8.8	M		20	M	M	M	62.2
	200	6.8	301	8.0	60.7		40	M	316	6.6	61.1
	250	7.0	298	7.3	60.1		80	M	310	1.9	60.8
	300	6.9	321	6.4	60.3						
	400	6.8	298	6.9	60.1						
FT-52	7	3.8	286	9.9	53.8		2.5	2.7	319	6.1	53.6
	50	5.3	294	8.9	53.0		5	M	M	M	53.1
	100	5.7	291	10.6	52.5		10	M	314	11.6	53.2
	150	6.3	285	10.8	52.2		20	4.6	M	M	53.1
	200	6.6	292	10.4	52.7		40	M	322	14.7	53.0
	250	7.2	289	10.5	52.2		80	M	309	7.9	52.8
	300	7.4	304	9.7	52.1						
	400	8.3	292	9.4	52.0						

400 FT TOWER					PORTABLE MAST						
	HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)		HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)
FT-53	7	3.2	294	6.2	58.2						
	50	4.5	295	5.3	58.0						
	100	5.4	296	5.4	57.2						
	150	6.2	292	5.4	57.2						
	200	6.9	303	3.6	57.6						
	250	7.4	295	4.0	57.1						
	300	7.7	300	3.9	56.8						
	400	8.9	296	2.9	56.9						
FT-54	7	1.9	295	10.0	73.5						
	50	4.6	304	5.6	77.6						
	100	6.5	307	3.4	79.2						
	150	7.9	307	2.8	80.3						
	200	7.6	312	3.1	82.6						
	250	7.1	310	3.0	82.6						
	300	6.6	348	3.3	82.3						
	400	6.2	320	2.0	83.0						
FT-55	7	2.5	287	3.4	66.7						
	50	4.5	292	3.7	68.1						
	100	5.7	291	3.4	68.1						
	150	6.9	289	2.9	68.2						
	200	7.6	298	2.8	68.6						
	250	8.0	293	2.7	68.6						
	300	8.9	330	0.7	69.4						
	400	9.6	300	3.6	70.5						
FT-56	7	0.8	308	10.6	75.4	2.5	0.8	328	10.1	74.7	
	50	3.3	310	7.0	78.4	5	M	M	M	M	74.9
	100	4.5	305	5.8	78.8	10	M	323	9.0	76.2	
	150	5.6	300	6.5	79.1	20	11.7	M	M	M	77.1
	200	6.3	304	4.2	79.9	40	M	329	8.4	78.4	
	250	6.9	295	4.5	79.9	80	M	324	6.7	78.0	
	300	6.9	M	M	80.1						
	400	8.6	295	4.2	80.4						
FT-57	7	2.6	290	4.4	69.7	2.5	M	306	1.5	67.6	
	50	4.5	291	3.0	71.0	5	M	M	M	M	67.8
	100	6.0	293	2.9	71.2	10	M	295	3.0	68.8	
	150	7.4	291	2.3	71.6	20	3.1	M	M	M	69.5
	200	8.1	297	3.2	72.0	40	M	303	1.9	M	
	250	9.2	295	3.4	72.4	80	M	298	2.2	69.4	
	300	8.8	280	2.5	73.0						
	400	8.8	302	3.3	73.6						

400 FT TOWER					PORTABLE MAST						
	HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)		HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)
FT-58	7	1.0	358	15.6	38.5						
	50	1.4	344	18.3	40.1						
	100	2.6	332	14.6	40.4						
	150	3.2	323	9.8	M						
	200	3.2	320	8.6	41.3						
	250	3.8	310	4.7	41.4						
	300	4.3	324	4.7	41.9						
	400	4.7	297	8.2	42.9						
FT-59	7	2.8	323	8.8	21.0	2.5	M	M	M	M	
	50	3.7	326	6.2	20.1	5	M	M	M	M	
	100	M	319	6.0	19.3	10	M	338	8.6	M	
	150	4.5	320	6.6	19.1	20	M	M	M	M	
	200	4.0	321	6.3	19.1	40	M	344	7.8	M	
	250	4.2	315	6.3	18.7	80	M	336	13.6	M	
	300	4.1	333	5.8	18.5						
	400	4.2	315	5.0	18.2						
FT-60	7	3.0	304	7.5	39.3	2.5	M	M	M		39.0
	50	4.0	304	5.6	38.9	5	M	M	M		38.8
	100	4.8	304	5.3	38.2	10	M	M	M		38.8
	150	5.6	290	4.8	38.1	20	M	M	M		38.6
	200	5.7	304	5.6	38.1	40	M	M	M		38.7
	250	6.1	302	5.6	37.9	80	M	M	M		38.7
	300	6.1	321	4.9	38.0						
	400	5.9	304	4.0	38.0						
FT-61	7	4.2	306	9.0	26.6	2.5	M	335	3.2		27.8
	50	5.7	303	6.8	25.6	5	M	M	M		27.0
	100	6.5	305	5.7	24.7	10	M	316	5.1		26.6
	150	7.0	291	6.1	24.3	20	M	M	M		26.3
	200	6.8	308	5.0	24.4	40	M	326	5.2		25.7
	250	6.7	305	5.0	24.0	80	M	324	4.0		25.1
	300	6.4	323	5.6	23.9						
	400	6.4	313	5.4	23.7						
FT-62*	7	1	270	M	37.0						
	50	3	M	M	61.2						
	100	4	M	M	63.3						
	150	M	M	M	M						
	200	5	292	M	64.7						
	250	M	M	M	64.7						
	300	5	M	M	65.1						
	400	6	292	M	64.8						

* Data from nearest hourly observation

400 FT TOWER

	HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)
FT-63	7	1.3	274	29.7	79.0
	50	3.9	294	16.6	85.2
	100	5.2	294	13.2	85.8
	150	M	M	M	86.3
	200	6.8	301	10.7	87.2
	250	M	M	M	87.4
	300	M	M	M	87.8
	400	M	M	M	88.6
FT-64	7	1.3	278	12.2	82.8
	50	3.3	294	11.8	86.6
	100	4.7	293	8.5	87.3
	150	M	M	M	88.7
	200	6.9	297	3.7	87.8
	250	M	M	M	89.2
	300	7.2	M	M	90.5
	400	8.9	292	M	91.9
FT-65	7	4.9	310	9.5	86.6
	50	6.7	305	9.7	87.1
	100	8.7	306	8.0	87.0
	150	10.0	290	6.3	86.9
	200	10.4	304	5.7	87.4
	250	11.6	301	4.7	87.5
	300	12.0	272	3.9	88.3
	400	M	M	M	89.0
FT-66	7	3.3	308	15.9	84.1
	50	5.3	308	14.3	85.2
	100	7.0	308	12.8	85.2
	150	8.8	290	11.8	85.1
	200	8.6	306	10.3	85.6
	250	9.5	299	8.6	85.5
	300	10.0	269	7.3	85.8
	400	M	M	M	86.4
FT-67	7	1.7	280	8.0	79.9
	50	3.4	286	6.7	82.5
	100	4.9	308	4.7	82.7
	150	5.8	281	3.0	83.1
	200	7.3	302	2.8	84.5
	250	M	296	2.8	85.2
	300	9.1	270	1.5	86.3
	400	M	M	M	88.1

PORTABLE MAST

HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)
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400 FT TOWER

	HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)
FT-68	7	3.8	310	5.5	87.2
	50	6.2	311	4.2	88.2
	100	7.9	308	4.0	88.3
	150	9.2	291	3.6	88.3
	200	10.0	308	3.0	88.7
	250	10.7	299	2.1	88.6
	300	11.3	273	3.2	88.8
	400	M	M	M	88.4
FT-69	7	4.5	300	13.6	83.7
	50	6.6	298	13.2	84.4
	100	8.0	297	12.1	84.3
	150	9.0	279	11.3	84.1
	200	9.2	293	11.1	84.4
	250	9.7	288	10.1	84.0
	300	10.3	261	8.6	84.2
	400	M	M	M	84.1
FT-70	7	2.9	298	9.0	81.0
	50	4.6	294	8.7	81.7
	100	5.9	295	7.8	81.3
	150	6.4	276	7.9	81.1
	200	6.4	291	7.2	81.3
	250	6.9	289	6.6	81.1
	300	7.2	259	6.1	81.0
	400	M	M	M	81.0
FT-71	7	1.9	315	21.2	74.4
	50	3.1	310	18.2	74.7
	100	4.3	309	16.5	74.3
	150	5.2	292	14.6	74.2
	200	5.0	306	11.8	75.0
	250	4.8	294	11.3	75.2
	300	4.7	265	15.9	75.6
	400	M	M	M	75.7

U SERIES

U-2	7	7.7	231	8.3	56.0	2.5	M	M	M	58.6
	50	10.2	236	7.3	54.9	5	5.9	M	M	58.7
	100	11.3	232	6.8	54.3	10	M	M	M	58.2
	150	11.4	230	6.5	M	20	6.1	M	M	58.0
	200	12.4	229	6.3	54.1	40	M	242	4.0	57.4
	250	12.6	227	6.5	53.1	80	M	245	5.6	56.3
	300	12.9	252	5.6	53.0					
	400	12.8	228	5.6	52.5					

400 FT TOWER					PORTABLE MAST						
	HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (° F)		HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (° F)
U-5	7	4.6	220	17.3	48.2		2.5	M	M	M	50.0
	50	6.8	224	16.4	47.0		5	4.7	M	M	49.6
	100	6.8	223	15.0	46.2		10	M	230	13.4	49.5
	150	7.4	216	16.2	45.8		20	5.7	M	M	49.0
	200	7.4	218	15.3	46.2		40	6.3	233	15.9	48.9
	250	7.5	217	14.5	45.3		80	M	230	10.1	48.4
	300	7.9	244	13.4	45.3						
400	7.8	219	14.1	44.9							
U-6	7	7.9	210	7.6	48.4		2.5	M	M	M	51.9
	50	11.0	216	6.9	45.9		5	6.8	M	M	50.9
	100	11.9	213	6.4	45.1		10	M	222	7.1	50.5
	150	12.7	205	5.7	M		20	9.4	M	M	49.7
	200	13.1	209	6.4	44.6		40	11.0	215	4.2	49.0
	250	13.4	210	5.6	44.0		80	M	219	3.5	47.7
	300	M	M	M	43.8						
400	13.6	210	5.6	43.5							
U-7	7	6.5	242	13.2	58.7		2.5	M	267	12.0	61.4
	50	8.3	246	11.1	55.5		5	M	M	M	61.0
	100	9.0	244	10.8	54.7		10	M	252	5.0	59.2
	150	9.3	235	12.0	53.9		20	M	M	M	58.2
	200	9.2	239	10.8	53.7		40	M	261	10.4	57.6
	250	9.5	240	10.5	53.7		80	M	258	9.4	56.0
	300	9.5	254	10.0	53.5						
400	9.7	239	10.1	53.2							
U-8	7	7.5	225	8.5	56.8		2.5	M	253	12.3	59.8
	50	10.8	223	6.7	56.2		5	M	M	M	59.4
	100	12.0	219	7.0	55.7		10	M	235	6.8	59.1
	150	13.1	216	6.9	M		20	M	M	M	59.0
	200	13.5	219	5.3	55.2		40	M	243	5.4	58.6
	250	14.0	218	6.6	54.8		80	M	242	5.2	58.1
	300	14.0	236	6.1	54.6						
400	14.6	219	6.2	54.3							
U-9	7	5.0	236	16.8	68.0		2.5	M	253	12.9	67.3
	50	6.5	234	15.6	67.0		5	M	M	M	66.8
	100	7.5	236	14.6	66.3		10	M	247	13.9	66.5
	150	8.1	227	15.3	65.7		20	M	M	M	66.2
	200	7.9	235	14.5	65.6		40	M	253	13.5	65.7
	250	8.3	237	14.1	65.4		80	M	254	12.9	65.4
	300	7.6	205	14.3	65.3						
400	8.1	236	14.4	64.6							

400 FT TOWER						PORTABLE MAST					
	HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)		HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)
U-10	7	2.7	249	23.5	62.5	2.5	M	273	14.0	62.4	
	50	3.3	247	23.2	60.3	5	M	M	M	61.2	
	100	3.9	243	21.2	59.7	10	M	268	14.5	60.7	
	150	4.4	238	21.6	59.0	20	M	M	M	60.5	
	200	3.9	245	21.1	58.8	40	M	270	10.8	60.0	
	250	4.1	246	18.4	58.9	80	M	274	12.4	59.4	
	300	3.9	217	17.8	59.0						
400	3.8	247	16.1	58.5							
U-11	7	1.8	260	26.0	63.9	2.5	M	279	19.6	64.0	
	50	2.2	257	20.5	62.6	5	M	M	M	63.0	
	100	2.6	254	20.2	62.0	10	M	275	17.0	62.7	
	150	3.0	242	21.0	61.2	20	M	M	M	62.2	
	200	2.5	252	18.7	61.2	40	M	277	17.0	61.5	
	250	3.1	254	17.3	61.0	80	M	280	14.6	61.0	
	300	2.7	223	15.2	60.9						
400	2.7	251	16.8	60.6							
U-12	7	2.0	220	49.8	66.9	2.5	M	244	33.8	68.1	
	50	2.9	220	37.4	65.5	5	M	M	M	66.6	
	100	3.2	220	34.4	64.5	10	M	242	32.0	65.8	
	150	3.8	211	35.0	64.0	20	M	M	M	65.3	
	200	3.4	217	32.9	64.0	40	M	250	28.8	64.8	
	250	3.9	218	30.0	63.5	80	M	248	30.8	64.0	
	300	3.6	187	29.1	63.5						
400	3.6	224	37.5	63.4							
U-13	7	7.2	211	16.1	60.4	2.5	M	232	7.2	61.2	
	50	10.9	210	24.4	58.4	5	M	M	M	60.5	
	100	12.0	208	26.9	57.7	10	M	230	5.8	60.0	
	150	13.0	199	29.0	57.0	20	M	M	M	59.5	
	200	12.9	204	28.8	57.0	40	M	240	5.3	56.4	
	250	13.1	206	29.3	56.4	80	M	240	5.3	58.0	
	300	12.2	174	27.3	56.6						
400	12.7	205	28.5	56.4							
U-14	7	4.2	231	9.7	58.5	2.5	M	249	10.4	58.8	
	50	5.9	231	9.2	57.9	5	M	M	M	58.3	
	100	6.4	227	8.6	57.2	10	M	247	8.5	58.1	
	150	7.0	218	8.3	56.7	20	M	M	M	57.8	
	200	7.0	225	8.8	56.9	40	M	253	4.9	57.4	
	250	7.1	223	7.9	56.4	80	M	274	7.0	53.1	
	300	6.7	214	8.6	56.4						
400	7.4	223	8.1	55.9							

400 FT TOWER						PORTABLE MAST					
	HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)		HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)
U-15	7	5.5	243	9.4	56.1		2.5	M	269	8.7	54.0
	50	7.7	243	8.8	56.0		5	M	M	M	53.8
	100	8.9	243	8.0	55.2		10	M	263	8.0	53.7
	150	9.7	232	7.6	55.0		20	M	M	M	53.6
	200	9.5	238	7.5	55.2		40	M	274	8.5	53.5
	250	9.6	235	6.6	54.8		80	M	274	7.0	53.1
	300	9.3	227	6.8	54.7						
400	10.3	240	6.8	54.2							
U-16	7	4.7	232	10.2	58.0		2.5	M	258	9.2	55.8
	50	6.8	229	10.6	58.0		5	M	M	M	55.6
	100	7.6	228	10.0	57.3		10	M	254	10.2	55.5
	150	8.3	217	10.1	57.0		20	M	M	M	55.5
	200	8.4	225	10.2	57.2		40	M	262	8.1	55.3
	250	8.8	225	10.1	56.7		80	M	262	9.6	54.9
	300	8.3	214	10.0	56.7						
400	9.3	226	9.5	56.2							
U-17	7	5.6	223	7.7	60.4		2.5	M	239	2.9	60.0
	50	7.9	223	6.6	59.3		5	M	M	M	59.1
	100	8.3	220	6.0	58.6		10	M	237	0.6	58.1
	150	9.0	213	5.4	58.1		20	M	M	M	58.8
	200	8.9	220	5.9	58.5		40	M	243	2.0	58.8
	250	9.1	219	6.1	57.7		80	M	246	4.9	M
	300	8.5	209	6.3	57.8						
400	9.1	222	5.2	57.5							
U-18	7	5.6	248	8.9	61.1		2.5	M	268	8.5	60.2
	50	7.4	248	8.5	60.2		5	M	M	M	59.2
	100	8.3	248	7.5	59.5		10	M	260	6.6	59.1
	150	8.7	235	7.5	58.9		20	M	M	M	58.9
	200	8.4	240	7.4	59.2		40	M	264	5.7	58.4
	250	8.8	241	6.6	58.5		80	M	269	5.8	M
	300	7.9	229	6.4	58.5						
400	9.0	245	6.2	58.4							
U-19	7	3.1	225	24.4	50.1						
	50	4.2	228	22.9	48.0						
	100	4.4	223	21.9	47.3						
	150	4.1	212	21.9	46.6						
	200	4.7	219	21.5	46.6						
	250	4.6	219	19.6	46.2						
	300	4.3	213	19.2	46.2						
400	5.1	222	17.6	46.0							

400 FT TOWER					PORTABLE MAST						
	HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (° F)		HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (° F)
U-20	7	7.0	233	7.6	50.1						
	50	9.1	232	6.0	49.3						
	100	10.1	228	5.6	48.7						
	150	10.5	216	6.0	48.2						
	200	10.8	223	5.9	47.7						
	250	11.4	224	5.7	48.0						
	300	10.9	217	5.8	48.0						
	400	11.9	224	5.4	47.6						
U-21	7	5.2	217	7.7	55.5						
	50	6.9	215	7.7	54.5						
	100	7.7	210	7.1	53.7						
	150	7.6	199	6.6	53.2						
	200	8.3	206	7.3	53.6						
	250	8.4	206	6.6	52.9						
	300	8.0	216	6.1	52.8						
	400	8.4	207	5.4	52.3						
U-22	7	3.5	233	24.3	49.9						
	50	4.3	232	18.8	48.0						
	100	4.6	229	17.7	47.0						
	150	4.2	219	16.2	46.5						
	200	4.8	227	15.7	46.2						
	250	4.8	227	14.6	46.2						
	300	4.6	232	14.0	46.1						
	400	4.9	230	13.2	45.7						
U-23	7	3.1	273	13.3	57.7						
	50	3.8	275	12.1	56.8						
	100	4.2	270	12.4	56.1						
	150	3.8	261	12.4	55.6						
	200	4.4	269	11.8	56.0						
	250	4.6	268	11.0	53.3						
	300	3.7	272	10.7	55.2						
	400	4.4	267	10.7	54.8						
U-24	7	5.4	238	22.9	61.2						
	50	6.8	238	21.8	57.2						
	100	7.5	235	19.4	56.2						
	150	7.2	223	18.7	55.5						
	200	8.0	231	19.0	55.4						
	250	8.3	232	17.6	54.9						
	300	7.5	236	16.5	54.9						
	400	8.1	231	16.6	54.6						

400 FT TOWER						PORTABLE MAST					
	HEIGHT	U	θ	σ_{θ}	T		HEIGHT	U	θ	σ_{θ}	T
	(ft)	(m/s)	(deg)	(deg)	(° F)		(ft)	(m/s)	(deg)	(deg)	(° F)
U-25	7	1.9	188	47.8	56.5						
	50	3.1	201	34.8	55.2						
	100	3.4	194	35.8	54.6						
	150	3.0	184	34.2	54.1						
	200	3.7	191	34.2	54.2						
	250	3.6	192	30.7	53.4						
	300	3.5	200	30.1	53.5						
	400	3.4	195	29.8	53.2						
U-26	7	3.5	229	33.9	74.8						
	50	4.4	227	29.5	72.4						
	100	4.9	232	27.2	71.2						
	150	4.8	229	25.8	70.6						
	200	4.8	233	24.7	70.6						
	250	5.2	233	22.6	70.0						
	300	4.6	235	22.3	70.0						
	400	5.1	233	20.2	70.0						
U-27	7	2.2	228	42.1	76.6						
	50	2.7	221	36.0	74.6						
	100	2.9	231	29.7	73.4						
	150	3.1	225	31.7	72.9						
	200	3.3	230	28.8	72.9						
	250	3.4	234	27.5	72.7						
	300	3.4	233	25.9	72.4						
	400	3.2	231	23.9	72.2						
U-28	7	5.5	241	11.6	59.2						
	50	7.4	226	11.1	56.9						
	100	7.6	236	10.4	56.1						
	150	8.1	233	9.8	55.0						
	200	8.4	240	9.5	55.2						
	250	8.5	233	9.2	54.8						
	300	8.3	229	9.5	54.9						
	400	8.7	232	9.0	54.7						
U-29	7	1.7	269	26.7	60.1						
	50	2.2	254	19.8	59.2						
	100	2.4	264	17.0	58.0						
	150	2.4	259	16.0	57.6						
	200	2.4	262	15.4	57.7						
	250	2.6	257	14.8	57.6						
	300	2.8	254	14.5	57.4						
	400	2.8	254	14.6	57.3						

400 FT TOWER					PORTABLE MAST						
	HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)		HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)
U-30	7	6.0	249	8.2	57.5						
	50	8.4	236	7.7	56.6						
	100	9.0	244	7.7	55.7						
	150	9.4	237	7.3	54.9						
	200	9.6	243	7.0	55.2						
	250	9.6	235	6.4	55.0						
	300	9.4	231	6.0	54.8						
	400	10.3	239	5.7	54.6						
U-31	7	3.9	233	10.7	55.8						
	50	5.6	215	10.2	56.4						
	100	6.4	222	8.7	55.9						
	150	7.0	218	7.8	55.7						
	200	7.5	223	7.1	55.8						
	250	8.0	216	7.6	55.6						
	300	7.6	212	7.8	55.4						
	400	8.3	215	7.7	55.1						
U-32	7	4.5	218	8.0	60.1						
	50	7.6	199	8.1	60.4						
	100	8.7	210	7.7	59.8						
	150	9.2	204	7.2	59.6						
	200	9.7	207	7.7	59.7						
	250	10.4	202	7.4	59.5						
	300	10.1	199	7.1	59.3						
	400	10.9	205	7.2	59.0						
U-33	7	6.0	233	13.0	48.5						
	50	7.6	212	12.1	46.1						
	100	8.0	228	11.4	44.8						
	150	7.3	224	11.4	44.4						
	200	8.0	225	11.3	44.0						
	250	7.9	224	11.3	43.8						
	300	8.3	220	11.6	43.8						
	400	8.6	222	10.8	43.5						
U-34	7	5.0	269	16.1	63.6						
	50	6.3	261	16.2	60.8						
	100	6.5	269	15.5	60.0						
	150	6.8	263	15.0	59.1						
	200	7.0	259	14.6	59.0						
	250	7.2	262	14.5	58.7						
	300	6.8	257	14.8	58.8						
	400	7.3	257	14.8	58.5						

400 FT TOWER						PORTABLE MAST					
	HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)		HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)
U-35	7	6.6	257	12.5	97.0						
	50	8.0	249	12.2	92.0						
	100	8.9	261	12.1	90.8						
	150	9.1	257	11.3	89.9						
	200	9.2	252	11.3	89.7						
	250	9.4	250	10.9	89.4						
	300	9.0	255	10.8	89.3						
	400	9.4	246	10.8	89.1						
U-36	7	3.0	230	34.8	75.1	2.5	2.4	270	36.5	76.5	
	50	3.3	252	33.3	72.1	5	2.9	270	32.7	74.1	
	100	3.6	261	33.3	71.2	10	3.3	268	33.4	73.1	
	150	3.6	261	31.6	70.2	20	3.6	266	31.2	72.6	
	200	3.7	262	33.4	70.5	40	3.8	269	32.0	71.9	
	250	4.2	264	29.1	69.9	80	4.1	268	29.3	71.5	
	300	3.9	260	27.8	69.9						
	400	4.2	262	26.1	69.8						
U-37	7	2.5	185	28.7	49.6						
	50	3.9	209	21.5	48.5						
	100	4.1	213	19.9	47.9						
	150	4.2	211	19.2	47.2						
	200	4.3	213	19.3	47.3						
	250	4.7	216	17.9	46.8						
	300	4.2	210	17.5	46.9						
	400	4.5	211	16.5	47.0						
U-38	7	3.0	286	12.2	83.2	2.5	2.7	289	14.0	85.8	
	50	4.5	283	9.0	80.5	5	3.4	289	12.8	84.4	
	100	4.3	284	8.4	79.7	10	3.8	288	12.0	83.2	
	150	M	M	M	78.9	20	4.2	287	13.2	82.7	
	200	4.8	287	7.9	79.1	40	4.4	292	10.7	81.6	
	250	5.0	285	6.7	78.4	80	4.8	288	9.1	81.2	
	300	5.1	292	6.3	78.4						
	400	5.3	281	6.0	78.2						
U-39	7	8.0	226	10.3	79.2	2.5	5.4	121	12.8	81.2	
	50	10.5	217	10.0	75.8	5	6.6	223	13.4	80.1	
	100	11.8	223	9.8	74.6	10	7.8	231	12.3	79.2	
	150	M	M	M	73.7	20	9.1	227	13.5	78.1	
	200	12.3	224	9.1	73.7	40	10.5	231	11.3	77.3	
	250	12.9	225	8.7	73.1	80	11.6	228	10.5	76.5	
	300	12.3	229	8.6	72.8						
	400	12.9	225	7.4	72.3						

400 FT TOWER					PORTABLE MAST						
	HEIGHT	U	θ	σ_{θ}	T		HEIGHT	U	θ	σ_{θ}	T
	(ft)	(m/s)	(deg)	(deg)	(°F)		(ft)	(m/s)	(deg)	(deg)	(°F)
U-40	7	7.5	234	8.3	73.5		2.5	4.7	239	9.2	73.9
	50	9.5	228	7.1	72.0		5	5.9	231	9.6	73.5
	100	10.5	229	6.9	71.1		10	7.0	238	8.7	73.0
	150	M	M	M	70.5		20	8.2	M	M	72.5
	200	11.8	230	6.6	70.5		40	9.5	238	7.9	71.8
	250	11.9	232	5.9	70.0		80	10.6	235	7.1	71.4
	300	11.8	238	5.8	69.8						
400	12.4	232	5.1	69.4							
U-41	7	6.2	223	11.3	71.2						
	50	8.0	219	8.7	68.3						
	100	8.8	221	7.8	67.4						
	150	M	M	M	66.4						
	200	9.2	224	6.9	66.4						
	250	9.6	225	6.6	66.1						
	300	9.3	232	6.7	65.9						
400	9.5	222	6.5	65.7							
U-42	7	6.3	242	9.1	61.9		2.5	4.1	248	10.3	M
	50	8.1	237	8.0	60.3		5	5.1	248	10.0	61.2
	100	9.1	239	7.6	59.7		10	6.1	247	9.8	60.9
	150	9.5	246	7.5	58.2		20	7.1	242	9.9	60.7
	200	9.6	237	6.6	58.7		40	8.1	249	8.8	59.8
	250	10.3	242	6.6	58.6		80	9.0	244	7.4	59.6
	300	10.0	250	6.4	58.5						
400	10.3	239	6.7	58.4							
U-43	7	2.2	208	8.5	52.2		2.5	2.3	212	6.9	M
	50	5.3	201	4.2	53.7		5	2.8	212	5.9	51.8
	100	6.5	204	3.7	54.1		10	3.3	210	5.7	51.6
	150	M	M	M	M		20	4.0	201	5.6	52.0
	200	7.5	202	3.3	54.2		40	5.1	209	5.1	52.4
	250	8.0	208	3.8	53.9		80	6.2	207	4.4	53.0
	300	8.0	217	3.7	53.8						
400	8.7	209	4.0	53.5							
U-44	7	1.6	156	60.8	80.8		2.5	1.7	215	73.9	M
	50	2.4	161	56.9	78.7		5	1.9	216	73.2	82.1
	100	1.8	166	55.2	78.2		10	2.2	208	73.3	81.3
	150	1.7	165	54.0	77.5		20	2.3	198	69.8	80.7
	200	2.0	170	46.9	77.6		40	2.4	195	65.6	80.4
	250	2.1	182	45.5	76.9		80	2.6	199	63.2	80.0
	300	2.0	200	45.9	76.6						
400	1.9	187	35.9	76.7							

400 FT TOWER					PORTABLE MAST						
	HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)		HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)
U-45	7	6.8	183	6.0	67.6		2.5	4.7	200	8.3	M
	50	9.7	197	7.1	67.1		5	6.0	199	7.3	66.9
	100	10.8	196	5.4	67.0		10	7.0	199	7.2	66.9
	150	8.9	195	5.2	66.5		20	8.0	191	7.0	66.8
	200	11.5	195	5.2	66.9		40	9.3	200	6.5	66.7
	250	11.8	197	5.0	66.7		80	10.4	200	6.2	66.3
	300	11.5	218	5.0	66.1						
400	12.2	202	4.7	66.1							
U-46	7	6.9	213	12.4	52.2		2.5	4.9	216	11.6	M
	50	9.4	197	10.9	49.7		5	6.0	216	10.5	M
	100	10.0	209	10.0	49.3		10	7.1	215	10.8	M
	150	10.1	209	9.3	48.6		20	8.1	208	11.7	M
	200	10.2	209	9.3	48.7		40	9.1	216	11.1	M
	250	10.6	212	9.1	48.2		80	9.5	215	10.2	M
	300	10.4	233	8.8	48.0						
400	11.0	217	8.9	47.8							
U-47	7	4.6	256	9.2	57.1		2.5	M	M	M	M
	50	6.3	231	9.6	56.1		5	M	M	M	M
	100	8.2	228	9.2	55.5		10	4.9	249	10.0	M
	150	7.7	239	9.6	55.2		20	5.6	244	10.8	56.1
	200	7.4	241	10.0	55.1		40	6.4	250	11.1	57.2
	250	7.7	260	8.9	54.6		80	7.1	242	9.7	53.9
	300	7.6	258	9.8	54.5						
400	7.9	246	8.8	54.6							
U-48	7	1.5	248	10.8	50.5		2.5	M	M	M	M
	50	3.8	226	8.2	52.6		5	M	M	M	M
	100	5.5	223	7.1	52.7		10	2.2	246	11.7	M
	150	5.5	233	6.3	52.9		20	2.8	241	10.7	51.3
	200	M	237	5.7	53.0		40	3.6	246	8.4	53.2
	250	5.4	253	7.0	52.5		80	4.2	241	6.9	50.9
	300	5.5	M	M	52.4						
400	5.9	240	4.3	52.5							
U-49	7	0.9	326	24.8	50.8						
	50	1.1	298	25.9	50.5						
	100	1.7	289	25.9	50.1						
	150	1.4	296	24.0	49.9						
	200	0.9	289	24.3	49.9						
	250	0.9	301	23.4	49.3						
	300	1.1	296	23.7	49.2						
400	1.0	271	25.7	49.1							

400 FT TOWER					PORTABLE MAST						
	HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)		HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)
U-50	7	6.8	214	9.7	49.3		2.5	4.7	213	10.5	M
	50	9.1	197	8.2	47.9		5	5.7	214	9.8	M
	100	9.9	192	7.8	47.5		10	6.6	212	10.0	M
	150	8.0	204	6.8	47.0		20	7.5	205	10.6	M
	200	10.8	210	7.1	46.7		40	8.6	214	9.8	M
	250	10.6	228	6.8	47.0		80	9.3	210	8.3	M
	300	M	210	6.0	46.2						
400	11.2	214	6.3	46.3							
U-51	7	4.8	250	14.4	54.5		2.5	3.0	242	14.1	M
	50	5.7	227	12.1	52.9		5	M	238	13.9	53.5
	100	6.0	222	10.2	52.2		10	4.1	242	13.6	53.4
	150	4.9	235	9.9	51.8		20	4.7	237	14.3	52.7
	200	6.3	240	9.7	51.7		40	5.4	243	12.5	52.1
	250	6.3	260	9.8	51.2		80	5.8	240	10.5	51.3
	300	6.3	240	9.8	51.0						
400	6.6	244	8.6	51.0							
U-52	7	6.8	242	14.7	61.3		2.5	4.7	243	8.3	M
	50	8.4	223	13.0	58.1		5	5.6	M	M	56.5
	100	9.1	221	12.0	57.6		10	6.5	243	8.3	56.2
	150	M	M	M	56.9		20	7.5	237	9.0	55.1
	200	9.6	236	11.6	56.5		40	8.3	243	8.0	54.4
	250	M	M	M	56.2		80	9.0	238	7.3	53.3
	300	M	M	M	56.0						
400	M	M	M	55.9							
U-53	7	10.4	219	9.8	55.9		2.5	7.6	219	10.4	53.0
	50	13.7	199	8.2	55.8		5	8.9	216	9.8	51.6
	100	15.0	198	7.9	55.5		10	10.0	217	10.2	51.1
	150	15.5	207	7.8	54.7		20	11.5	210	10.5	M
	200	16.0	211	7.4	54.7		40	13.0	218	9.6	50.0
	250	15.8	233	7.4	54.1		80	14.3	214	8.7	48.8
	300	M	M	M	53.8						
400	16.5	221	7.1	53.8							
U-54	7	3.3	232	8.7	40.5		2.5	2.4	240	10.4	38.4
	50	5.6	222	6.8	42.3		5	2.9	239	10.3	38.8
	100	6.9	215	5.9	42.1		10	3.4	240	10.6	38.9
	150	M	M	M	42.5		20	4.1	234	10.7	39.5
	200	8.4	234	4.4	42.9		40	5.0	241	8.8	39.8
	250	M	M	M	42.8		80	6.0	235	6.8	39.9
	300	M	M	M	42.9						
400	M	M	M	43.4							

400 FT TOWER						PORTABLE MAST					
	HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)		HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)
U-55	7	3.3	232	20.5	51.1		2.5	2.5	238	22.3	M
	50	3.9	229	18.1	48.9		5	3.0	234	21.1	M
	100	4.4	229	16.8	48.4		10	3.4	238	21.5	M
	150	M	M	M	48.0		20	3.9	231	20.4	M
	200	4.8	228	14.5	47.7		40	4.3	237	17.3	M
	250	M	M	M	47.2		60	4.6	234	16.3	M
	300	M	M	M	47.2						
	400	M	M	M	47.3						
43 SERIES											
FT-1-43	7	0.6	222	13.6	42.1						
	50	2.1	256	19.4	44.1						
	100	3.5	256	12.6	45.1						
	150	4.1	248	12.2	46.2						
	200	5.5	258	9.4	47.2						
	250	5.7	254	8.5	47.7						
	300	5.3	261	9.0	47.6						
	400	5.4	261	9.1	47.6						
FT-3-43	7	0.4	011	66.1	42.0						
	50	0.5	288	48.0	47.7						
	100	1.2	297	14.5	48.2						
	150	2.1	293	11.2	48.6						
	200	2.8	300	6.3	49.5						
	250	3.7	298	5.4	49.8						
	300	3.9	300	3.2	50.3						
	400	4.7	291	2.6	50.7						
FT-4-43	7	3.4	311	8.0	61.3						
	50	6.2	314	5.5	63.0						
	100	7.7	308	4.0	63.6						
	150	8.8	300	2.9	64.7						
	200	9.6	311	2.9	66.7						
	250	8.6	310	3.4	67.8						
	300	6.4	317	3.9	68.2						
	400	7.1	318	5.1	68.4						
FT-5-43	7	2.7	309	4.7	61.8						
	50	5.8	312	3.8	64.0						
	100	8.2	310	3.1	66.4						
	150	8.5	308	2.8	69.5						
	200	8.2	320	2.7	70.0						
	250	7.3	320	3.7	70.0						
	300	7.2	327	3.7	69.9						
	400	6.5	330	5.1	69.8						

400 FT TOWER						PORTABLE MAST					
	HEIGHT	U	θ	σ_{θ}	T		HEIGHT	U	θ	σ_{θ}	T
	(ft)	(m/s)	(deg)	(deg)	(°F)		(ft)	(m/s)	(deg)	(deg)	(°F)
FT-6-63	7	1.3	246	20.6	55.7						
	50	3.4	259	16.8	57.4						
	100	3.6	252	14.0	57.6						
	150	3.5	242	10.9	57.7						
	200	4.2	252	10.4	58.1						
	250	3.5	253	9.7	57.9						
	300	4.5	266	9.9	57.7						
	400	4.4	264	9.0	57.3						
FT-7-63	7	2.7	293	7.0	62.7						
	50	4.6	294	5.8	63.3						
	100	5.9	292	6.1	63.2						
	150	5.6	291	5.7	63.1						
	200	7.1	291	5.9	63.5						
	250	8.0	300	4.2	63.2						
	300	7.6	301	4.7	63.3						
	400	9.1	297	4.1	63.4						
FT-8-63	7	1.2	278	21.1	59.1						
	50	2.3	277	19.0	59.4						
	100	3.2	283	16.9	59.0						
	150	2.6	278	17.0	58.7						
	200	3.6	282	16.8	58.9						
	250	4.5	280	17.5	58.7						
	300	4.0	281	15.8	58.6						
	400	4.7	278	17.9	58.4						
FT-9-63	7	2.2	289	10.8	67.8						
	50	4.3	287	11.7	70.4						
	100	5.3	298	10.5	70.0						
	150	5.4	297	9.9	69.9						
	200	7.5	302	8.6	70.5						
	250	8.2	304	7.3	72.2						
	300	8.2	304	6.8	70.7						
	400	9.4	300	5.1	71.3						
FT-10-63	7	1.7	274	7.2	58.4						
	50	3.6	269	6.2	61.3						
	100	3.8	280	6.1	61.6						
	150	3.6	279	6.8	62.4						
	200	4.8	284	6.2	61.7						
	250	4.5	283	5.6	61.4						
	300	4.4	282	5.5	61.3						
	400	5.1	282	5.6	60.8						

400 FT TOWER

	HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)
FT-11-63	7	1.6	272	6.2	57.6
	50	4.2	277	4.0	61.6
	100	4.9	289	3.2	62.0
	150	4.7	286	4.0	62.0
	200	6.2	291	3.5	62.3
	250	5.9	288	3.0	62.0
	300	5.9	289	3.0	62.0
	400	4.7	290	3.9	62.0

FT-12-63	7	1.1	245	20.2	60.1
	50	2.5	253	21.9	62.7
	100	3.0	261	23.2	62.7
	150	3.2	261	19.4	63.2
	200	4.1	268	16.0	64.5
	250	4.6	268	14.0	64.6
	300	5.3	268	11.5	64.9
	400	6.2	278	8.6	65.2

FT-13-63	7	0.5	286	6.8	68.2
	50	2.1	288	7.5	72.8
	100	M	293	7.8	72.7
	150	2.8	290	5.0	72.9
	200	3.7	292	4.3	73.7
	250	4.2	296	4.0	73.3
	300	4.3	287	4.0	73.3
	400	4.9	286	4.3	73.3

FT-14-63	7	2.0	299	7.9	64.6
	50	3.5	297	6.0	65.2
	100	4.4	307	4.3	65.4
	150	4.6	307	3.6	65.0
	200	5.8	310	3.2	65.4
	250	6.6	312	3.3	65.2
	300	6.9	305	2.8	65.1
	400	8.0	306	2.7	65.2

FT-15-63	7	0.8	297	14.4	58.8
	50	3.5	304	5.1	63.2
	100	4.6	310	2.0	63.7
	150	5.0	309	2.4	63.4
	200	6.4	313	2.5	64.2
	250	6.9	312	2.5	64.0
	300	6.9	310	2.7	64.0
	400	8.1	309	2.2	64.2

PORTABLE MAST

HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)
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400 FT TOWER					PORTABLE MAST						
	HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)		HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)
FT-16-83	7	0.4	291	29.4	61.9						
	50	2.4	312	17.4	69.2						
	100	3.1	313	15.1	69.8						
	150	3.9	323	11.7	70.2						
	200	4.2	302	9.4	71.0						
	250	4.7	299	8.6	71.0						
	300	4.9	296	7.7	71.0						
	400	5.7	293	6.4	71.0						
FT-17-63	7	0.8	305	26.4	51.6						
	50	2.4	291	14.1	53.7						
	100	3.5	296	3.9	54.1						
	150	4.2	295	3.4	54.0						
	200	5.1	300	4.2	55.3						
	250	6.7	302	5.4	55.8						
	300	6.7	299	5.6	56.3						
	400	7.7	307	5.3	56.9						
FT-18-63	7	3.3	323	26.4	66.1						
	50	4.3	309	13.4	64.3						
	100	4.4	321	12.2	63.3						
	150	4.2	320	11.0	62.7						
	200	4.3	324	10.9	62.9						
	250	5.0	323	10.5	62.7						
	300	4.6	316	10.6	62.6						
	400	4.4	319	11.2	62.0						
'64 SERIES											
S-64-1	7	1.9	304	6.6	39.8						
	50	4.2	297	5.5	41.0						
	100	5.5	311	5.3	41.4						
	150	5.7	308	5.2	41.6						
	200	6.8	300	5.7	42.1						
	250	7.7	304	5.3	41.9						
	300	7.6	305	6.5	41.9						
	400	8.5	302	5.4	42.0						
S-64-2	7	1.3	279	7.2	51.0						
	50	3.5	282	4.3	54.2						
	100	4.5	302	3.8	54.6						
	150	4.6	300	3.4	54.9						
	200	5.7	294	3.3	55.6						
	250	6.6	296	3.7	55.8						
	300	6.8	300	2.8	56.3						
	400	7.1	305	5.3	57.1						

400 FT TOWER

	HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)
S-64-4	7	1.0	290	14.3	58.3
	50	3.0	291	9.3	61.7
	100	4.1	308	5.7	62.0
	150	4.6	309	5.0	62.4
	200	6.5	308	4.3	63.4
	250	7.9	307	2.5	64.5
	300	8.0	312	3.1	65.7
	400	8.0	309	1.7	67.2
S-64-5	7	1.9	335	20.6	59.5
	50	4.2	319	17.5	63.8
	100	4.9	326	14.1	64.6
	150	4.8	314	12.1	64.8
	200	6.0	301	10.1	65.2
	250	6.7	296	7.9	65.4
	300	6.7	300	6.6	65.6
	400	8.0	290	5.2	66.2
S-64-6	7	1.0	328	9.7	63.3
	50	M	M	M	69.6
	100	3.1	341	6.9	69.8
	150	2.9	337	7.1	69.7
	200	3.2	330	7.6	69.9
	250	3.5	328	8.2	69.7
	300	3.5	334	7.5	69.6
	400	4.5	326	10.0	69.3
S-64-7	7	2.8	291	8.2	70.4
	50	5.4	286	6.7	73.8
	100	6.8	303	6.7	73.8
	150	6.7	302	6.5	74.3
	200	8.1	300	6.8	75.2
	250	8.6	300	6.5	75.4
	300	8.0	304	7.1	75.6
	400	8.6	305	5.5	76.6
S-64-8	7	0.8	319	15.8	68.0
	50	3.6	310	12.3	70.7
	100	4.6	323	10.1	71.1
	150	4.4	319	9.2	71.3
	200	5.6	311	8.0	71.8
	250	5.6	304	7.5	72.0
	300	5.5	312	8.2	72.3
	400	5.8	296	9.3	72.8

PORTABLE MAST

HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)
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400 FT TOWER						PORTABLE MAST					
	HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)		HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)
S-64-9	7	1.4	274	14.4	56.2		2.5	1.4	267	M	57.1
	50	3.1	271	13.4	59.7		5	1.6	269	M	58.5
	100	4.0	289	10.5	60.0		10	2.2	271	M	59.6
	150	3.7	287	9.1	59.7		20	2.8	260	M	60.6
	200	4.8	286	7.5	59.6		40	3.4	276	M	61.4
	250	5.6	280	6.6	59.6		80	4.6	273	M	61.7
	300	5.7	296	5.9	59.6						
	400	7.0	289	5.0	59.6						
S-64-10	7	2.0	305	14.2	66.0						
	50	4.1	298	8.7	67.7						
	100	5.3	313	6.5	68.0						
	150	5.2	311	5.8	68.0						
	200	6.3	305	5.8	68.4						
	250	M	M	M	68.3						
	300	6.7	313	5.3	68.4						
	400	8.4	300	3.9	68.6						
S-64-11	7	0.8	306	3.6	56.8		2.5	0.8	307	8.0	56.8
	50	3.5	312	4.0	64.9		5	1.2	305	4.7	58.4
	100	3.7	341	8.5	68.1		10	1.7	304	2.8	59.9
	150	2.8	349	11.6	68.2		20	2.6	M	M	62.4
	200	2.8	349	11.8	67.7		40	3.9	313	2.7	64.6
	250	2.6	013	12.0	68.2		80	4.8	317	6.2	67.7
	300	2.3	005	12.1	68.0						
	400	2.4	354	11.1	67.6						
S-64-12	7	1.5	286	12.0	67.6						
	50	3.6	288	7.0	71.8						
	100	5.5	307	3.4	72.8						
	150	5.5	305	3.4	73.5						
	200	7.3	302	3.1	74.7						
	250	7.2	330	3.0	75.4						
	300	5.8	315	4.2	75.8						
	400	4.9	305	6.1	76.2						
S-64-13	7	1.1	282	20.7	61.3						
	50	3.3	288	20.5	67.1						
	100	4.8	304	16.3	67.9						
	150	4.5	306	14.8	68.0						
	200	5.6	302	12.1	68.7						
	250	6.4	328	9.4	68.6						
	300	6.2	318	8.1	68.7						
	400	7.6	302	5.5	69.8						

400 FT TOWER

	HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)
S-64-14	7	2.2	331	6.2	58.6
	50	3.9	331	4.9	59.5
	100	5.0	337	4.2	59.6
	150	5.2	340	3.6	59.3
	200	6.3	334	4.0	59.6
	250	7.2	331	3.3	59.3
	300	6.8	341	3.9	59.2
	400	7.7	336	3.6	60.1

S-64-15	7	0.6	264	23.0	49.6
	50	2.2	287	23.8	56.3
	100	2.4	312	24.0	57.1
	150	2.7	328	23.9	57.3
	200	3.3	331	23.8	58.0
	250	4.1	337	24.3	58.0
	300	3.4	350	21.9	58.1
	400	4.0	350	21.8	58.9

PORTABLE MAST

	HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)
	2.5	0.8	248	35.1	48.2
	5	1.2	252	25.1	50.1
	10	1.7	259	25.9	51.7
	20	2.2	261	26.1	54.4
	40	M	285	28.5	56.5
	80	4.1	295	29.5	57.3

Z SERIES

Z-1	7	2.5	300	7.6	49.6	2.5	M	M	M	M
	50	5.0	305	4.0	50.8	5	M	M	M	M
	100	6.7	302	3.2	51.5	10	M	319	4.1	49.0
	150	M	M	M	52.0	20	M	M	M	49.3
	200	9.2	303	3.2	53.8	40	M	325	2.5	50.0
	250	9.3	301	2.4	54.8	80	M	318	18.8	50.7
	300	9.1	341	3.0	55.6					
	400	8.3	309	2.3	56.0					

MT SERIES

MT-2	7	3.8	295	7.2	60.4
	50	6.0	288	7.6	61.2
	100	M	M	M	61.0
	150	6.9	297	6.6	60.7
	200	M	M	M	61.0
	250	M	M	M	60.7
	300	M	M	M	60.6
	400	10.1	294	3.6	60.4
MT-3	7	1.1	281	7.5	53.8
	50	3.2	289	4.0	57.5
	100	4.6	313	4.8	57.5
	150	3.8	309	3.5	58.8
	200	5.1	303	4.3	59.4
	250	5.3	302	4.1	59.2
	300	5.1	305	4.7	59.2
	400	5.4	298	4.6	59.1

400 FT TOWER

	HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)
MT-4*	7	2.2	M	M	72.8
	50	4.5	292	M	73.9
	100	5.8	M	M	73.8
	150	M	M	M	M
	200	7.2	292	M	74.3
	250	M	M	M	74.2
	300	6.7	M	M	74.6
	400	6.7	315	M	74.2

PORTABLE MAST

	HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)
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Y SERIES

Y-2	7	1.2	298	5.0	35.0
	50	4.1	301	2.7	39.3
	100	5.2	319	2.6	40.1
	150	5.8	317	3.1	41.0
	200	7.4	314	4.4	43.0
	250	7.7	325	5.2	44.4
	300	6.9	326	4.0	45.0
	400	6.5	332	3.7	45.1

Y-4	7	2.1	272	9.8	43.9
	50	3.6	265	9.4	46.0
	100	4.1	283	7.1	45.9
	150	4.1	282	7.5	45.8
	200	5.3	282	6.8	46.3
	250	6.2	288	4.0	46.1
	300	6.6	286	5.2	46.2
	400	8.0	290	3.5	46.2

Ye SERIES

Ye-1	7	1.0	249	22.3	29.0	2.5	1.1	253	23.4	29.2
	50	2.9	272	16.4	34.6	5	1.5	245	21.5	29.6
	100	3.8	297	16.2	36.4	10	2.0	254	20.6	30.8
	150	4.1	310	13.7	M	20	2.6	242	32.5	32.2
	200	4.8	312	7.3	38.6	40	2.9	M	M	34.6
	250	5.2	313	2.4	38.8	80	4.1	262	11.6	35.1
	300	4.9	310	2.1	39.2					
	400	5.5	315	4.0	39.6					

* Data from nearest hourly observation

400 FT TOWER						PORTABLE MAST					
	HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)		HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)
Xe-2	7	2.1	266	3.8	34.6		2.5	M	276	4.9	33.9
	50	8.0	263	2.8	36.1		5	5.3	269	4.3	34.8
	100	9.8	261	2.6	36.6		10	5.9	271	3.9	M
	150	8.9	263	2.6	M		20	6.8	262	11.8	34.6
	200	10.7	263	3.2	38.5		40	7.2	272	3.5	35.7
	250	11.3	266	3.5	38.8		80	9.3	255	2.4	36.3
	300	10.4	259	2.8	38.8						
	400	10.9	266	3.9	38.5						
Xe-3	7	2.1	286	6.9	70.1		2.5	1.5	293	6.8	68.6
	50	3.7	281	5.1	72.3		5	1.9	291	4.7	69.8
	100	4.5	284	5.9	72.1		10	2.3	293	5.5	69.9
	150	M	M	M	M		20	2.9	293	5.3	M
	200	5.6	288	4.4	72.4		40	3.3	295	4.8	71.1
	250	6.0	286	3.9	71.9		80	4.4	291	4.4	71.8
	300	5.9	291	3.8	71.8						
	400	6.8	285	4.2	71.6						
Xe-4	7	1.9	283	5.8	72.9		2.5	1.8	287	7.6	73.5
	50	3.3	278	5.5	74.2		5	2.2	283	6.5	74.1
	100	5.0	289	4.3	74.4		10	2.6	287	5.4	74.1
	150	M	M	M	74.5		20	3.1	288	4.8	74.5
	200	6.3	294	1.8	75.0		40	3.9	292	4.0	74.6
	250	7.3	295	1.5	74.8		80	5.1	291	3.1	75.3
	300	7.8	305	1.0	75.2						
	400	7.8	305	1.0	76.7						
Xe-5	7	2.2	300	4.8	40.0		2.5	1.8	300	4.0	M
	50	3.8	299	3.3	41.4		5	M	298	4.7	39.9
	100	5.2	304	3.0	41.4		10	2.7	301	3.5	39.8
	150	M	M	M	41.6		20	3.2	301	3.3	40.3
	200	6.7	311	2.5	43.0		40	4.0	306	2.6	40.4
	250	6.3	314	2.9	43.4		80	5.0	293	1.9	41.0
	300	5.5	329	2.5	43.4						
	400	5.3	324	4.1	43.2						

A SERIES

A-2	7	4.5	310	5.9	80.5
	50	5.6*	292*	M	80.2
	100	6.7*	M	M	80.6
	150	M	M	M	M
	200	7.4*	304*	M	79.6
	250	M	M	M	78.8
	300	8.0*	M	M	78.8
	400	8.9*	315*	M	78.7

* Data from nearest hourly observation

400 FT TOWER					PORTABLE MAST						
	HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)		HEIGHT (ft)	U (m/s)	θ (deg)	σ_{θ} (deg)	T (°F)
A-5	7	3.1	302	14.9	67.6		2.5	2.1	299	18.8	67.2
	50	4.8	296	14.2	68.6		5	2.7	301	16.7	68.0
	100	4.9	294	14.8	68.4		10	3.2	302	15.8	68.1
	150	M	M	M	68.4		20	3.9	298	15.8	68.6
	200	5.5	289	12.4	68.6		40	4.5	300	15.2	68.9
	250	M	M	M	68.0		80	5.1	296	14.1	68.9
	300	M	M	M	68.0						
400	6.8	285	9.1	68.0							
A-6	7	1.5	254	26.0	54.5		2.5	1.1	251	22.7	58.2
	50	2.9	240	18.0	55.2		5	1.4	M	M	58.6
	100	3.7	239	17.3	55.5		10	1.8	249	21.0	58.5
	150	M	M	M	53.0		20	2.2	243	20.5	58.9
	200	4.1	243	13.5	57.3		40	2.9	245	19.2	59.3
	250	M	M	M	56.6		80	3.6	240	18.8	59.6
	300	M	M	M	56.9						
400	4.6	261	11.0	57.4							
A-7	7	2.8	320	5.1	57.5		2.5	2.1	322	7.8	62.3
	50	4.8	317	4.1	57.9		5	2.6	M	M	62.8
	100	5.9	315	3.2	58.1		10	3.3	320	4.9	62.7
	150	M	M	M	58.4		20	3.9	321	4.4	62.8
	200	7.9	310	1.4	59.0		40	4.8	322	3.9	63.1
	250	M	M	M	59.3		80	5.8	317	4.0	63.1
	300	M	M	M	59.7						
400	7.6	312	3.3	60.4							
A-8	7	1.8	287	7.5	61.8		2.5	1.7	289	9.1	66.0
	50	4.3	285	4.2	64.7		5	1.9	290	8.3	66.8
	100	6.2	297	3.2	65.9		10	2.4	289	7.5	66.9
	150	M	M	M	66.4		20	3.1	289	6.6	67.8
	200	6.0	299	2.2	67.2		40	4.2	296	4.6	68.8
	250	M	M	M	67.0		80	5.6	297	2.6	69.8
	300	M	M	M	67.6						
400	5.0	314	5.8	68.3							
A-9	7	0.8	260	37.2	62.6		2.5	0.8	251	41.2	65.9
	50	2.7	285	6.8	68.1		5	1.2	259	37.9	67.8
	100	3.7	296	5.5	68.2		10	1.5	265	31.8	69.5
	150	M	M	M	68.4		20	2.0	276	23.0	71.0
	200	5.1	299	3.0	68.9		40	2.8	291	10.9	72.5
	250	M	M	M	68.7		80	3.5	296	5.1	72.8
	300	M	M	M	69.3						
400	7.4	299	1.7	70.7							

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16. ABSTRACT (200 words or less) This volume presents dispersion and supporting meteorological data from experiments conducted over relatively flat terrain at Hanford, Washington from January 1960 through June 1967. The nature of the experiments, the sampling grids, and the tracer techniques used are described in the narrative portion of the document. Appendices contain the time-integrated concentrations for samplers within the plumes, summaries of the concentration distributions across the plumes, and wind and temperature profile data for each release period.					
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