GJBX- 70 '80

Airborne Gamma-Ray Spectrometer and Magnetometer Survey

Birmingham Quadrangle (Alabama)

Final Report

Volume II

prepared by

HIGH LIFE HELICOPTERS, Inc. / QEB, Inc.
Puyallup, Washington Hayward, California

Prepared for the U. S. Department of Energy
Grand Junction Office
Grand Junction, Colorado
under
Subcontract No. DE-AC13-79GJ01692

AIRBORNE GAMMA-RAY SPECTROMETER

AND

MAGNETOMETER SURVEY

BIRMINGHAM QUADRANGLE, ALABAMA

VOLUME II

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TABLE OF CONTENTS

VOLUME II

TABLES

VOLUME II

FIGURES

VOLUME II

BIRMINGHAM QUADRANGLE

INTRODUCTION

The geologic map on which the statistical analysis and interpretation are based was provided by BFEC. Formation descriptions included in Appendix C are derived principally from the map and from Copeland and Beg (1979). In general, the Birmingham 1^0 by 2^0 NTMS quadrangle, located in northern Alabama, is divisible into a number of physiographic provinces which have strong structural connotations: (1) East Gulf Coastal Plain, (2) Appalachian Plateaus, (3) Valley and Ridge, and (4) Piedmont.

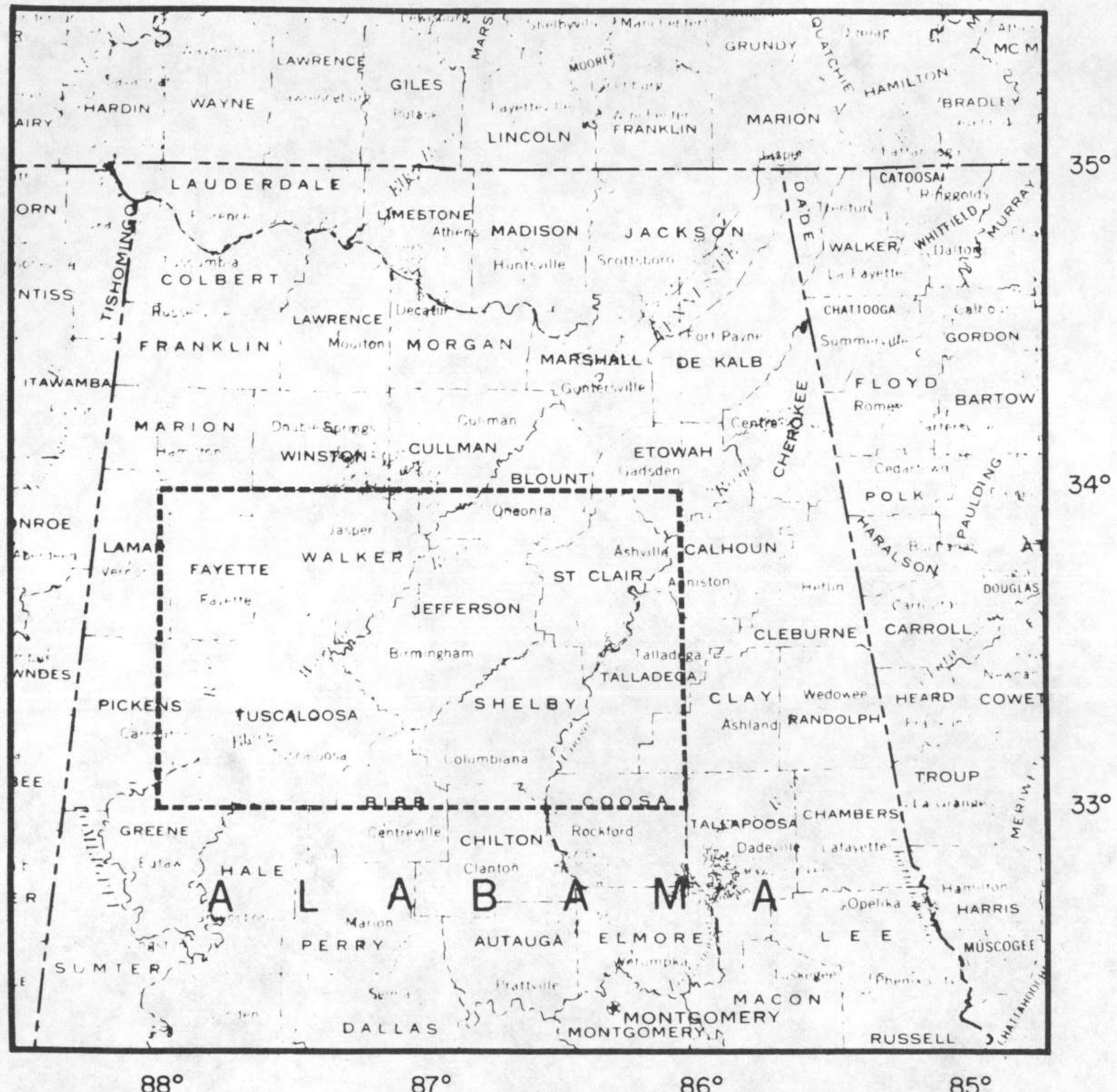
Elevations are low in the western part of the quadrangle (100-800 feet) with minimal relief. In the eastern part of the quadrangle, narrow valleys and broad uplands separate many elongate ridges. Ridge elevations range from 1,000 to 1,912 feet, with valley floors at 500-600 feet. Some of the uplands occur at elevations of as much as 1,000 feet. Relief is greater in the eastern part of the quadrangle than the western part.

GEOLOGY

In general much of the detailed information regarding the quadrangle stems from published and unpublished reports of the Geological Survey of Alabama (GSA). Present work is being performed by the GSA under the auspices of the U.S. Geological Survey for both environmental and coal resource purposes.

Gently dipping Coastal Plain sediments of Late Cretaceous age overlap Paleozoic strata in the western part of the quadrangle. Gently dipping Pennsylvanian rocks occupy the Appalachian Plateaus section of the central quadrangle with Late Cambrian, Early Ordovician to Mississipian rocks exposed in major anticlinal folds in east central areas. These

LOCATION MAP
BIRMINGHAM QUADRANGLE
ALABAMA

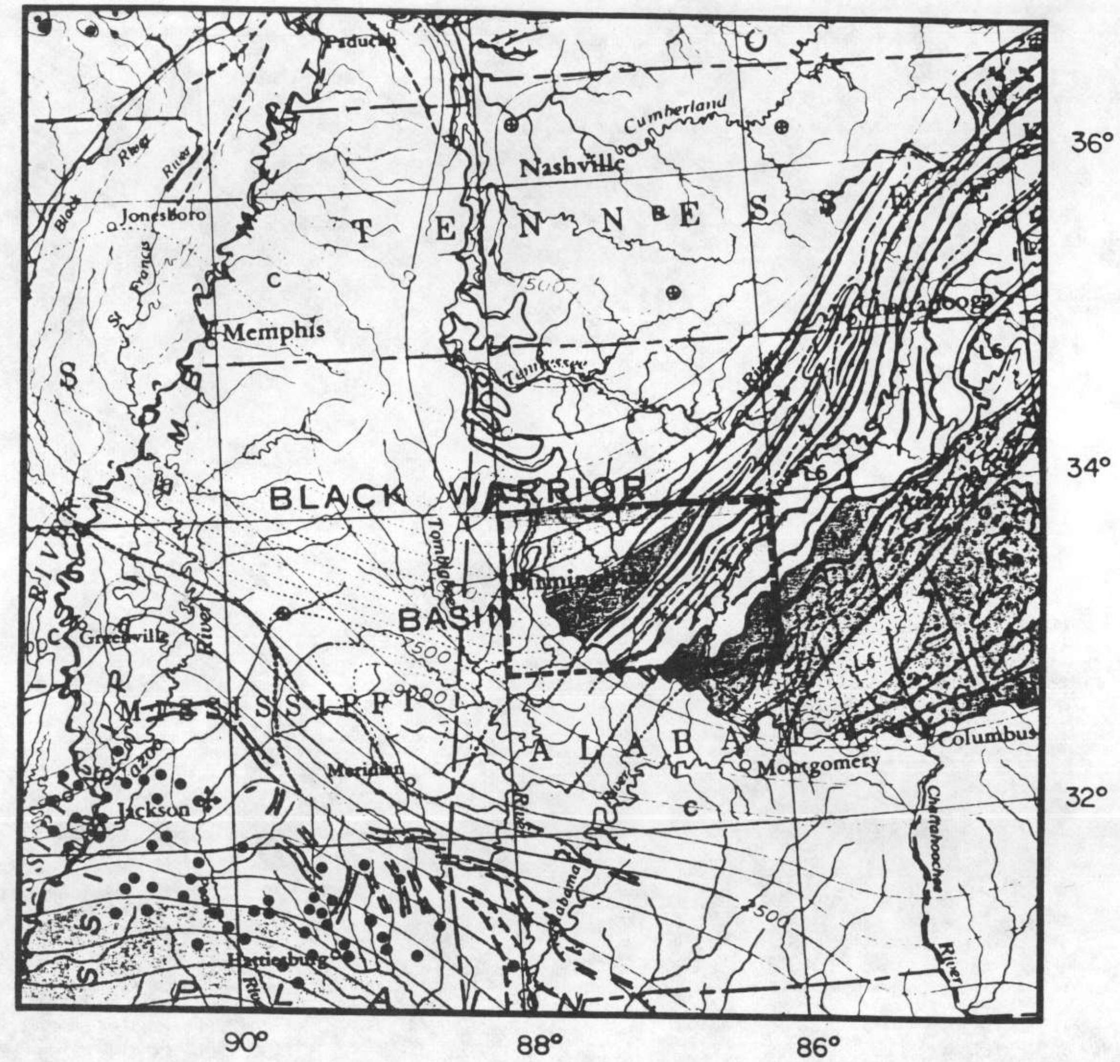


Scale, 1:2,500,000

Figure 1

Based on U.S. Geologic Survey map of the United States. Edition 1972

TECTONIC MAP
BIRMINGHAM AREA
ALABAMA



Scale, 1:5,000,000

L E G E N D

STRUCTURAL SYMBOLS

Anticlines
Elongate, closely compressed and mainly involving only sedimentary rocks. Width of spindle suggests size and steepness of fold

Anticlinal axis, showing plunge
Axis of open fold or broad arch, many of which involve basement rocks

Synclinal axis
Only larger folds shown, omitted in areas of close folding

Dome
Conspicuous localized uplift

Trend lines
In metamorphic rocks throughout North America. In east Greenland lines show trends of folds in infrastructure

Strike and dip of beds
Shown only in extensive homoclinal sequences

Thrust fault
Barbs on upthrown or overthrust side

Normal fault
Hachures on downthrown side

Buried fault
Includes faults which displace surface of underlying basement in platform areas

Structure contours in platform areas
Contour interval 500 meters. Contour numbers above sea level marked by plus, numbers below sea level unlabeled

Figure 2

Based on Tectonic Map of North America. Compiled by P. B. King.

grade into the valley and Ridge province, occupying the eastern part of the quadrangle, which is characterized by highly folded and faulted rocks organized into northeast-southwest trending ridges separated by narrow valleys. These anticlinal folds are generally assymmetric with the northwest limbs dipping relatively more steeply. Overturning and thrust faulting occur, which gives considerable displacement in places and causes great complexities in the regional picture. Rocks exposed in these structural convolutions range from Early Cambrian to Pennsylvanian. Intensely folded and faulted high and low grade metamorphic and igneous rocks occur in the Piedmont province occupying the southeastern part of the quadrangle.

The east Gulf Coastal Plain is surficially characterized by relatively unconsolidated sediments of the Tuscaloosa Group and Eutaw Formation (Late Cretaceous) unconformably overlying indurated beds of the Pottsville Formation (Pennsylvanian). Oil and gas test wells have encountered formations of Late Cambrian and Early Ordovician age. Faulting is known, through drilling, to offset the older sub-surface units which do not displace the overlying exposed units.

The Appalachian Plateau province is characterized by the absence of thrust faults and the gentle symmetrical folding of the surface units (Colton 1970). Near the southeastern province boundary, folding becomes more severe (tighter and more closely spaced) parallel to the regional trend of the Appalachian structural front. Three major anticlinal folds are exposed at the surface in this region with corresponding synclinal elements in the sub-surface to the southwest (Kidd and Shannon, 1977). Westward of the major folds, minor undulation of the surface units are characteristic. Rocks of the Middle to Early Ordovician age are exposed within the axial portion of the major anticline, with Middle Ordovician to Mississipian age rocks comprising the flanks. The bulk of the area is underlain by the Pottsville Formation (Pennsylvanian).

The sedimentary sequence is reported as some 11,060 feet thick. Colton (1970) provides a thorough description of the valley and ridge province. Axes of folds and traces of faults are closely parallel to the NE - SW axes of the basin. Within the province, folding becomes progressively more gentle and more broadly spaced towards the west. Overturning and thrusting are common on the western flanks of the folds. In general, thrusting is directed northwestard. Major structural elements of the province include the Birmingham anticlinorium, Cahaba syncline, Helena thrust block, Coosa synclinorium, and Coosa deformed belt (Thomas and Drahovzal, 1974) and the eastern Coosa block (Bearce, 1978). Sedimentary rocks in the region are more than 10,000 feet thick. The eroded core of the Birmingham anticlinorium contains Cambrian to Early Ordovician rocks, while the flanks consist of Middle Ordovician to Mississipian rocks. The Cahaba syncline contains Mississipian and Pennsylvanian rocks. The Helena thrust fault (which creates the Helena block) juxtaposes Early Cambrian-Ordovician rocks (within the block) against Pennsylvanian rocks. The Coosa synclinorium includes principally Pennsylvanian rocks in the axes with some rocks as old as Cambrian on the flanks. The Coosa deformed belt is defined as a narrow linear belt of deformed complex structures consisting of narrow imbricate thrust slices moved northwestward. Most of the belt is underlain by the Floyd-Parkwood (Mississipian - Pennsylvanian) and older formations (Ordovician to Mississipian) exposed in long narrow strips within the thrust slices (Thomas and Drahovzal, 1974). The eastern Coosa Valley is largely underlain by the Knox groups - (Late Cambrian to Early Ordovician), and other early Paleozoic formations (Bearce, 1978). These schists have also been deformed by folding and thrust faulting.

The Piedmont Province consists primarily of metasedimentary rocks lying between the Brevard fault zone and the edge of the Valley and Ridge Province. These rocks have undergone polyphase tectonism and syntectonic metamorphism and have been intruded by both mafic rocks and a wide variety of granitic igneous rocks. The metamorphic units are divided into two distinct belts (1) the low rank Talladega belt (mostly greenschist facies) and (2) the high rank Wedowee belt (greenschist and amphibolite facies). The Elkhatchee Quartz Diorite gneiss makes up the bulk of the Pinkneyville granite complex. A complex of dikes and small stocks of granite, known as the Rockford Granite, is included within this province.

Uranium Mineralization

A pegmatite-rich district occurs in Coosa County within the quadrangle boundaries. It is suspected that uranium mineralization may be associated with the Rockford Granite and pegmatites which intrude the Hatchet Creek and Wedowee Groups. Neatherly (1974) has reported moderate scintillometer counts from traverses in the vicinity of scattered pegmatites. Associated columbite-tantalite, and possible uraninite have been reported from some of the pegmatites. Extent and hence importance of these occurrences is uncertain.

There is some knowledge of past Aero-Radiometric Surveys primarily by private groups. Neatherly (1976) reports anomalies of up to 650 cps (background 250 cps) over the Talladega slates and phyllites in northeast Chilton and southeast Chilton Counties and over the Wedowee Group schists (intruded by pegmatites) in Coosa County.

The Chatanooga shale, which occurs in the Appalachian Plateau portion of the quadrangle, has long been considered a potential source of uranium. Glover (1959) reports samples in the northeast part of the quadrangles containing some 0.003% uranium. These were collected on the margins of structural features.

GEOPHYSICAL DATA INTERPRETATION

Radiometric Data

After an initial screening process to reject cultural effects, a total of 64 uranium anomalies met the minimum statistical requirements as defined in Volume I. These anomalies are depicted on the Uranium Interpretation Anomaly map (Figure 3), and are also summarized in Table I. This map also includes location of major cultural features (cities), and the results of interpretation of the Potassium, Uranium, Thorium, and Magnetic pseudo-contour maps. These maps are presented in Appendix E. Stacked profiles depicting geologic strip maps along each flight line, in addition to the various sensor data, are included as Appendix F. Geologic units and descriptions are presented in Appendix C. The anomalies are distributed throughout the quadrangle, although a few tend to cluster near pseudo-contour uranium highs, in particular, those associated with metasediments and crystalline rocks in the southeast quadrant.

The majority of the anomalies are associated with the Paleozoic Pottsville Formation and its members. This unit is also a source of coal, and the terrain underlain by it has been subjected to extensive strip mining. Such activity has produced much surface disturbance. Some disturbed areas are shown on the 1:250,000 scale NTMS map, but many more are probably not. Many of the statistical anomalies appear spatially related to such features, but such proximity should not be reason for the rejection of a specific anomaly. For example, grading of access or service roads, or strip mining may have exposed a legitimate exploration target.

Some anomalies which meet the statistical criteria are suspect due to their close proximity to man made surface features. These anomalies include 3, 7, 10, 12, 16, 21, 22, 23, 33, 34, 35, 42, and 52. For the most part, they appear near various improved roads. The statistical

BIRMINGHAM, ALABAMA

Uranium Anomaly Interpretation Map

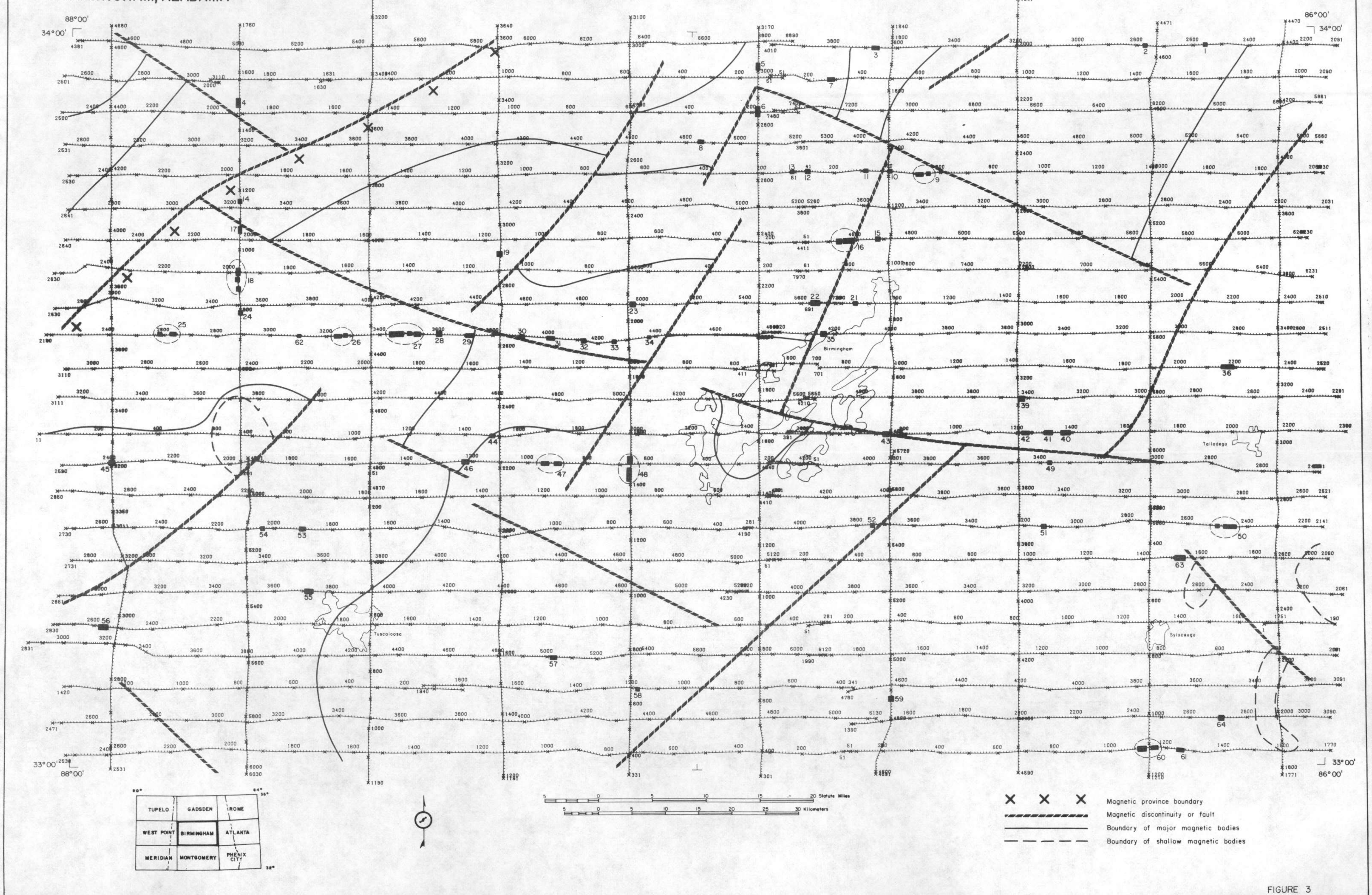


FIGURE 3

TABLE I

SUMMARY OF U ANOMALIES
BIRMINGHAM QUADRANGLE

Anomaly Number	Flight Line Number	Geologic Unit	Number of individual samples having N positive standard deviations above the mean: N = 1	2	3	4	5	>5
1	23	OC		2				
2	23	OЄV/OC		2				
3	23	MB		3	1			
4	TLI	KCK	2	3				
5	22	PVP/PBY	2	2				
6	TL6	PVP/PBY	3	1	1			
7	22	MHS	2	1				
8	20	QAL/PVP	2	1				
9	19	MB/MHS/MTM/OЄK	3	2	1			
10	19	PVP	2	1				
11	19	PLC/PVP			1			
12	19	PLC/PVP	2	1				
13	19	PVP		2				
14	TL-1	PVP/KCK	1		2			
15	17	PVP	1		1			
16	17	PVP	5		3			
17	TL-1	PVP	2		1			
18	TL-1	KCK	3		5			
19	TL-4	PVP/QAL	1	1		1		
20	16	PVP	1	2				
21	15	OCK			1			
22	15	PVP	2	2				
23	15	PVP	2	1				
24	TL-1	KCK	2	2				
25	14	KCK	5	1		1		
26	14	PVP	3		2			
27	14	PVP	2	1				
28	14	PVP	2	1				
29	14	PVP	3	2				
30	14	PVP	1	2				
31	14	PVP		2	3			
32	14	PVP	1		1			
33	14	PVP				1		
34	14	PVP	1	2				
35	14	PMC		1	1			
36	13	OCV	3	4				
37	12	PVP	2		1			
38	12	PVP	2	1				
39	12	PVP	1			1		
40	11	OЄU/MFM	1	2	1	1		
41	11	MF	1	2	1			
42	11	MF	3	2	1			
43	11	PVP	1	2				
44	11	PVP	2	1				
45	TL-1	KG	2		1			
46	10	PVP		2	1			
47	10	PVP	4	4				
48	TL5	PVP	6	4	1			
49	10	MF		1	1			
50	8	TA/OЄU/TSC	4	4	1			
51	8	ONL	1	2				
52	8	PBY			1			
53	8	KCK	2	1				
54	8	KCK		2				
55	6	QT	2	1	1			
56	4	KG	2	1				
57	4	KT	2	1				
58	3	KT			1			

Anomaly Number	Flight Line Number	Geologic Unit	Number of individual samples having N positive standard deviations above the mean N = 1,	2,	3,	4,	5,	>5
59	TL-7	TA				1		
60	1	HS/AA	5	4				
61	1	AA	3	2				
62	14	PVP	2	1				
63	7	TA	2	1	1	1		
64	2	AA	2		1			

expression may be due to imported road base material or to the application of asphalt, oil, or concrete to the surfaces.

Anomalies 5, 6, 8, 10, 12, 13, 14, 15, 16, 17, 20, 22, 23, 26, 34, 37, 39, 39, 44, 46, 48, and 62 occur within the Pottsville Formation. This dominance of anomaly distribution relative to other units cannot be totally explained by the unit's extensive occurrence (represented by some 45,000 samples in the statistical compilation). The formation is not cited by Copeland and Beg (1979) as being a potential uranium source host rock. It consists primarily of shales and sandstone, warped into the gently undulating folds of the Gulf Coastal Plain. The extensive surface area exhibits good drainage with well disected interfluves. Anomalies may be the result of contrasts between stream bottoms and ridge crests.

A large number of strip mines are indicated on the topographic map. Many are in terrain underlain by the Pottsville Formation. In fact, the flight lines intersect several of the mapped mines. Anomalies 5, 11, 48, 49, 58, and 31 seem to be highly correlated with mapped mines. It is suspected that many other anomalies within the Pottsville Formation may be related to unmapped strip mines, pit exposures, or spoils piles providing a radioelement contrast to mapped units. The Pottsville Formation should probably be reconsidered in terms of uranium possibilities.

Anomaly 9 occurs in the Prospect Mountain area of the north central part of the quadrangle. It is interesting because it extends across thin steeply dipping units (Bangor, Hartshell, Knox, and Tuscaubia). The fact that, when taken together, these dissimilar lithologies create a common statistical anomaly, indicates a probable common source. This could simply consist of a single unit shedding higher eU-ppm material over the units. Conversely, this feature may be the result of unrecorded prior activity (e.g. strip mining).

The Chatanooga shale is cited by many investigators including Swanson (1961) and Copeland and Beg (1979) as a potential uranium source. It is noted for containing most of the identified domestic uraniferous black shale resources. Values for U_3O_8 are as high as .007%. Typically such black shales are rich in organic matter and accumulate under reducing conditions, a plus in uranium accumulation. The upper member of the Chattanooga shale is some 12 to 18 feet thick over 4,000 square miles, thus presenting a small target when exposed in steeply dipping structures such as in the Birmingham Quadrangle. Interestingly, none of the statistical anomalies appear to occur in the Chattanooga shale. However, several occur in adjacent units, and may be the result of weathered Chattanooga material being spread over adjacent units. More subtle treatment of the data over smaller subsets of the Chattanooga might produce better definition.

Another suggested target for the Birmingham Quadrangle has been the metamorphic igneous terrain of the Piedmont province. Located in the southeastern corner of the quadrangle are a number of metasedimentary formations which have been intruded by granitic and pegmatitic bodies. These appear as a distinct regional high on the uranium pseudo-contour map, and are discretely bounded by pseudo-contour patterns. Anomalies 60, 61, and 64 occur in the Ashland mica schist and anomalies 50 and 63 occur in the Talladega Slate. Only one granitic body is shown on the base map. It is statistically inadequate, with too few samples to be considered with anomalies. A 1:250,000 map showing possible sources for uranium mineralization, prepared by the Geological Survey of Alabama (1978), indicates granitic-pegmatitic bodies occurring in a northeast-southwest trending swarm. Anomalies 60 and 64 seem to be associated with this swarm in both a spatial and genetic sense. These bodies are micaceous pegmatites and are associated with tin deposits, perhaps containing tantalite-columbite.

It is interesting to note that the Wedowee Formation, believed by many

investigators to be a potential uranium source, has no statistical anomalies. The Talladega Mountain also has no statistical anomalies, but it is a regional uranium pseudo-contour map high. The distinctive, relatively high uranium contour patterns, and specific eU ppm statistical anomaly (64 at 6 eU ppm) makes the Piedmont area interesting for exploration.

Magnetic Data

The Magnetic pseudo-contour map parallels the regional physiographic/structural province division of the quadrangle. A distinct set of magnetic discontinuities separates the Piedmont Valley and Ridge, and Appalachian Plateau province. Higher frequency, relatively shallower features characterize the Piedmont relative to the other provinces. Large deeper bodies, strong northeast - southwest faulting,and surprisingly strong, lengthy east - west magnetic discontinuities characterize the Appalachian Plateau and Valley Ridge provinces. Deeper, lower frequency features coupled with less intensive faulting are displayed within the East Gulf Coast Plain province. Small high frequency, relatively shallower features may represent intrusives. The northeast - southwest faulting displayed in the contours is compatible with the directions of regional folding and overthrust alignment. However, the east - west discontinuities have no real counterparts in the mapped surface geology.

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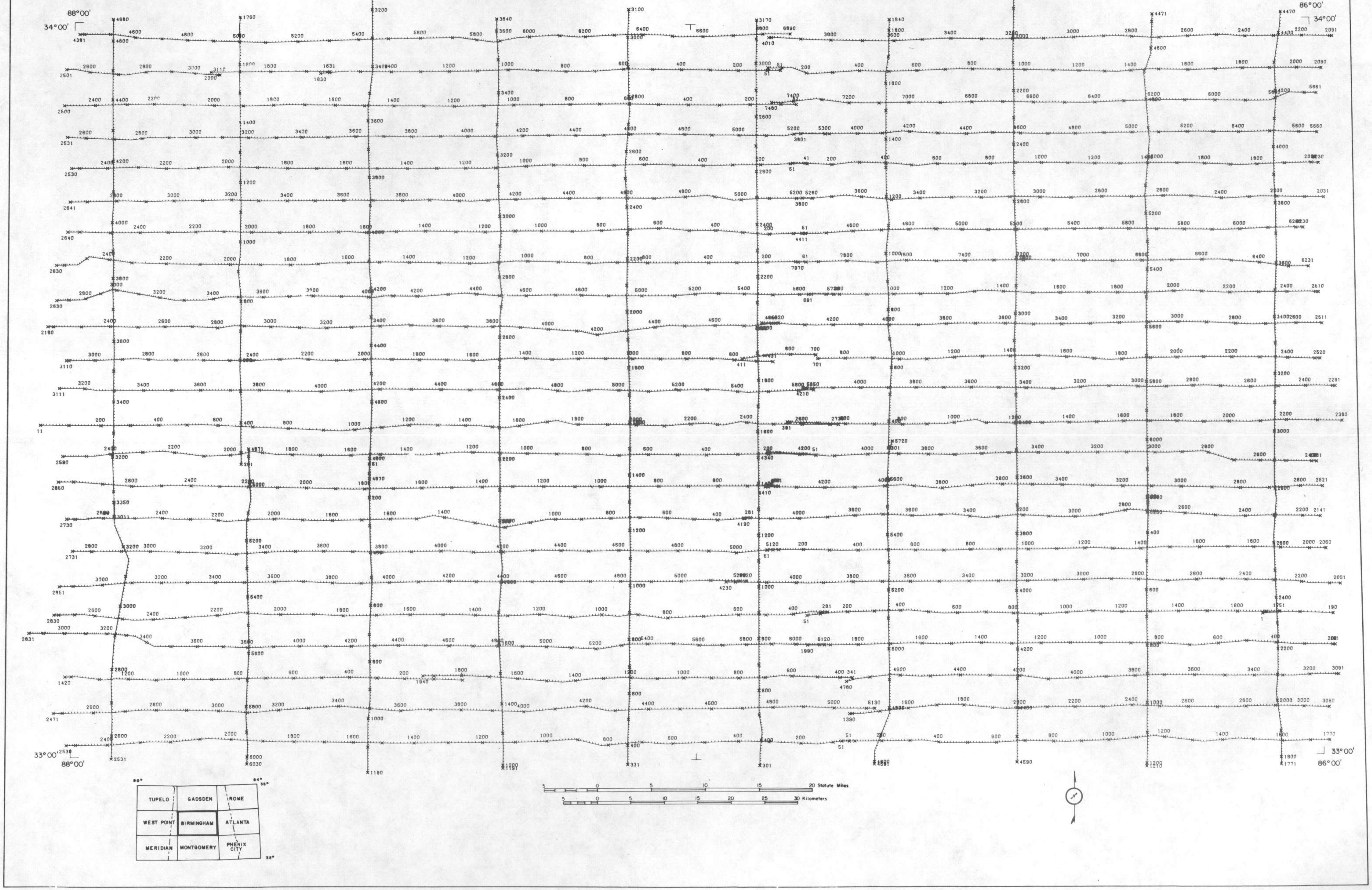
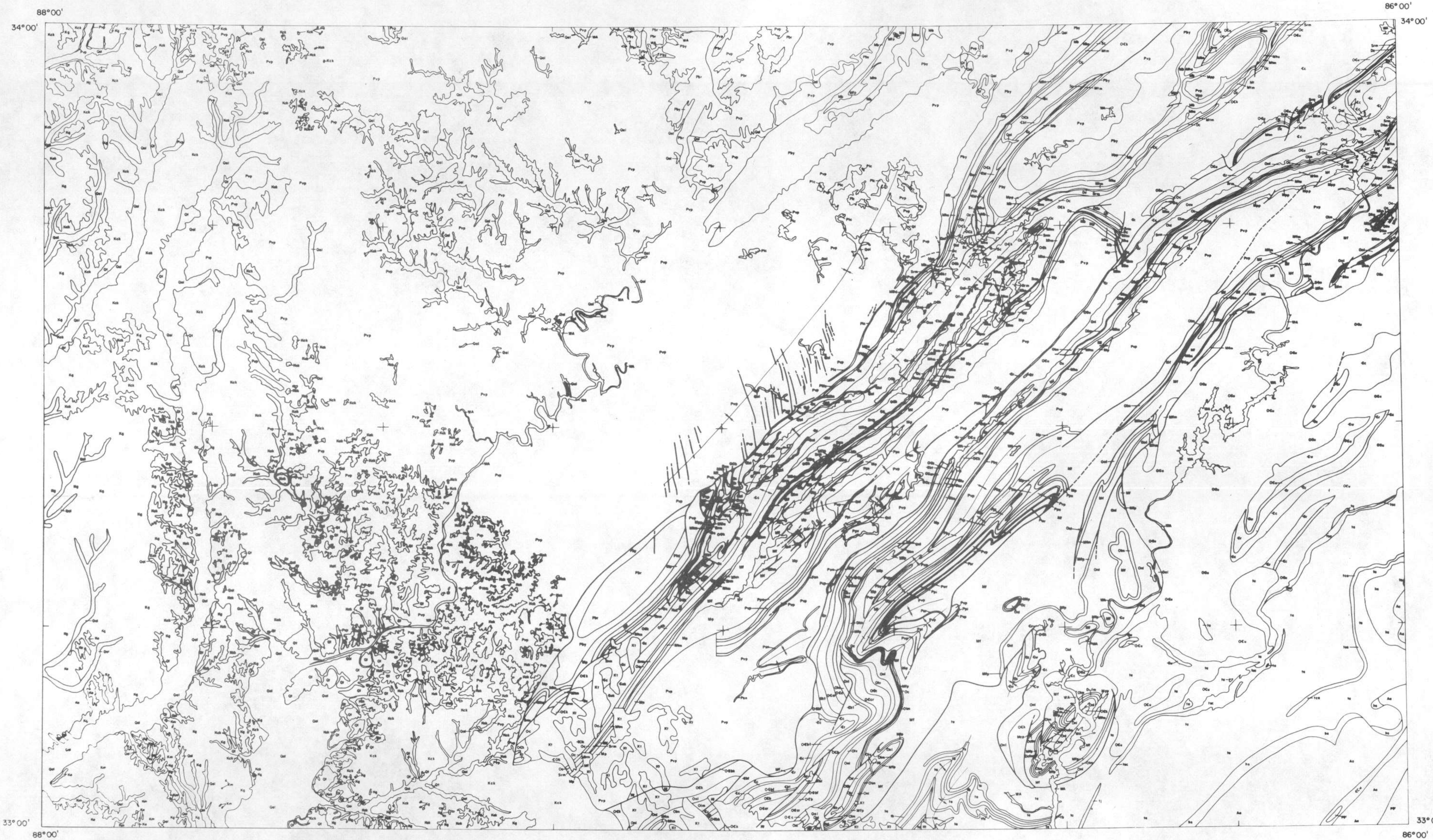
APPENDIX A - FLIGHT LINE MAP

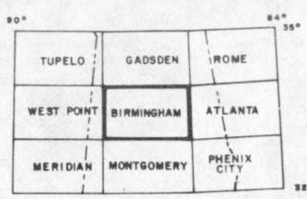
BIRMINGHAM, ALABAMA



APPENDIX B - GEOLOGY MAP

BIRMINGHAM, ALABAMA





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APPENDIX C - EXPLANATION OF GEOLOGIC LEGEND

EXPLANATION OF GEOLOGIC LEGEND
BIRMINGHAM QUADRANGLE

Computer Symbol	Map Symbol	Description of unit.
QAL	Qal	ALLUVIUM & LOW TERRACE DEPOSITS (QUATERNARY)-Unconsolidated gravel, sand, and silt with chert and quartz fragments. In Marion and Green Counties includes high terrace deposits.
QT	Qt	HIGH TERRACE DEPOSITS (QUATERNARY)-Sand and gravel with rounded cobbles up to 6" in diameter.
KE	Ke	EUTAW FORMATION (CRETACEOUS)-Gray to greenish-gray, fine to medium-grained glauconitic sand with layers dark clay.
KM	Km	McSHAN FORMATION (CRETACEOUS)-Light-gray laminated clay beds alternating with thin, fine to coarse-grained glauconitic sand beds.
KG	Kg	GORDO FORMATION (CRETACEOUS)-Fine to coarse-grained sand with some mottled clay.
KCK	Kck	COKER FORMATION (CRETACEOUS)-Sand and gravel with irregular carbonaceous lenses and clay beds. White to pink, fine to coarse-grained micaceous sand, locally with some siliceous gravel. Crossbedding in upper part.

Computer Symbol	Map Symbol	Description of unit.
KT	Kt	TUSCALOOSA FORMATION - (CRETACEIOUS) Undifferentiated Coker and Gordo sandstones.
PVP	Pvp	POTSVILLE FORMATION - PENNSYLVANIAN)
PBR	Pbr	-BREMEN SHALE (PBr) includes
PSR	Psr	STRAIGHT RIDGE (Psr),
PCN	Pcn	CHESTNUT (Pcn), and
PWR	Pwr	WOLFRIDGE (Pwr) SANDSTONES.
PBY	Pby	-BOYLES(Pby) includes
PPI	Ppi	PINE (Ppi),
PLC	Plc	LICK CREEK (Plc),
PPS	Pps	SHADES (Pps) SANDSTONES, and
PSN	Psn	STRAVEN (Psn) CONGLOMERATE
PMC	Pmc	Undifferentiated MISSISSIPPIAN and PENNSYLVANIAN.
MP	Mp	PARKWOOD FORMATION (MISSISSIPPIAN)-Light to medium-gray sandstone with interbedded dark-gray micaceous shales and mudstones.
MPP	Mpp	PENNINGTON AND PARKWOOD FORMATIONS (MISSISSIPPIAN) - composed of interbedded red and tan shale, and cherty limestone.
MF	Mf	FLOYD SHALE (MISSISSIPPIAN) - Dark-gray clay shale, fine-grained sandstone with thin ferruginous beds.

Computer Symbol	Map Symbol	Description of unit.
MB	Mb	BANGOR LIMESTONE (MISSISSIPPIAN)- Gray to blue-gray, crystalline fossiliferous limestone.
MDA	MDa	Undifferentiated MISSISSIPPIAN and DEVONIAN.
MHS	Mhs	HARTSELLE SANDSTONE (MISSISSIPPIAN)- Light-tan, fine-grained, hard sandstone, locally includes GASPER FORMATION - light-gray lithographic limestone; and STE. GENEVIEVE LIMESTONE - oolitic limestone.
MPM	Mpm	PRIDE MOUNTAIN FORMATION (MISSISSIPPIAN)- Dark-gray, fissile, sandy shale.
MTM	Mtm	Includes oolitic limestone at base. (Mtm)
MTF	Mtf	TUSCUMBIA LIMESTONE (MISSISSIPPIAN)- Thick bedded, dark, bioclastic limestone. Includes Fort Payne Chert in some areas.
MFP	Mfp	FORT PAYNE CHERT (MISSISSIPPIAN)- Gray to orange, bedded fossiliferous chert.
MPM	Mpm	Undifferentiated FORT PAYNE CHERT. MAURY FORMATION (Mfm)-(MISSISSIPPIAN). consists of red, green, and gray with phosphate nodules.
DFM	Dfm	FROG MOUNTAIN FORMATION (DEVONIAN)- Coarse-grained, friable sandstone.

Computer Symbol	Map Symbol	Description of unit.
DCFM	Dcfm	CHATANOOGA SHALE AND FROG MOUNTAIN FORMATION (DEVONIAN)-Chatanooga is a gray to black organic marine shale.
DC	Dc	UNDIFFERENTIATED CHATANOOGA SHALE and RED MOUNTAIN FORMATION (DEVONIAN - SILURIAN) - The latter consists of dark-reddish-brown siltstone, sandstone and shale with hematite beds.
SRM	Srm	CLINTON (ROCKWOOD) FORMATION (SILURIAN) - Shale and sandstone with beds of iron ore.
OC	Oc	CHICKAMAUGA LIMESTONE (ORDOVICIAN) - Blue-gray, thin-to-medium-bedded, fossileferous limestone with some shale and crystalline limestone.
OCA	Oca	ATTALLA CHERT - CONGLOMERATE MEMBER of CHICKAMAUGA LIMESTONE (ORDOVICIAN) - Where mapped separately, consists of gray, coarse-grained chert and reddish-orange, coarse conglomerate with cherty clasts.
OLM	Olm	Undifferentiated LITTLE OAK,LENOIR, and MOSHEIM LIMESTONES (ORDOVICIAN) - LITTLE OAK: thick-bedded, dark, crystalline limestone. LENOIR: medium - coarse grained limestone with clay veins. MOSHEIM: light-gray, compact limestone.

Computer Symbol	Map Symbol	Description of unit.
OLV	Olv	LONGVIEW LIMESTONE (ORDOVICIAN) - Light-gray, thick-bedded cherty limestone and dolomite.
ONL	Onl	ODENVILLE, NEWALA, AND LONGVIEW LIMESTONES (ORDOVICIAN) - ODENVILLE consists of argillaceous, siliceous, dark-gray, cherty limestone. NEWALA consists of pure dark to pearl-gray, thickbedded limestone.
OCU	OЄu	Undifferentiated upper CAMBRIAN and ORDOVICIAN rocks
OCC	OЄc	CHEPULTEPEC DOLOMITE (CAMBRIAN-ORDOVICIAN) - Dolomite with mealy, cavernous, fossiliferous chert.
OCCR	OЄcr	COPPER RIDGE DOLOMITE (CAMBRIAN-ORDOVICIAN) - Thick-bedded, coarse dolomite with large chert boulders.
OCK/COK	OЄk/ЄOk	KNOX GROUP (CAMBRIAN-ORDOVICIAN).- Includes CHEPULTEPEC and COPPER RIDGE DOLOMITE
CKT	Єkt	KETONA DOLOMITE (CAMBRIAN-ORDOVICIAN) - Light-brownish-gray to yellowish-gray crystalline limestone.
OЄB	OЄb	BIBB DOLOMITE - CAMBRIAN-ORDOVICIAN) - Thick-bedded, dark blue, crystalline, siliceous dolomite.

Computer Symbol	Map Symbol	Description of unit.
OCBF	OЄbf	BRIERFIELD DOLOMITE (CAMBRIAN-ORDOVICIAN) - Thick-bedded, siliceous dolomite.
OCBK	OЄbk	Undifferentiated KETONA,BIBB and BRIERFIELD DOLOMITES (CAMBRIAN-ORDOVICIAN).
CC	Єc	CONASAUGA FORMATION (CAMBRIAN) - Thin-bedded, brownish-gray limestone, grayshale, brownish-gray dolomite.
CR	Єr	ROME FORMATION (CAMBRIAN) - Red and green shale, thin limestone beds, chert and sandstone.
CS	Єs	SANDY LIMESTONE (CAMBRIAN) - Thick-bedded, light gray, limestone.
CW	Єw	WEISNER FORMATION (CAMBRIAN) - Shale with quartzite and siliceous iron ore beds.

METAMORPHIC ROCKS

Computer Symbol	Map Symbol	Description of unit.
TA	ta	TALLADEGA SLATE - Dark blue slate,
TS	ts	approaching mica-schist; includes JUMBO
TJ	tj	DOLOMITE (tj), MASSIVE SANDSTONE (tss),
TSS	tss	FERRUGINOUS SANDSTONE (tfs), BREWER
TFS	tfs	PHYLLITE (tb)
TB	tb	SYLACAUGA MARBLE (tsc)
TSC	tsc	SAWYER LIMESTONE (ts)
TCA	tca	Undifferentiated schist.
WA	wa	WACAHATCHEE SLATE - Bluish sericitic slate.

Computer Symbol	Map Symbol	Description of unit.
PGR	pgr	PINCKNEYVILLE GRANITE - Massive hornblende - biotite granite gneiss.
HS	hs	HILLABEE CHLORITE SCHIST
CCW	Ɛcw	WEDOWEE FORMATION - Phyllite, quartzite, schist with graphite.
AA	Aa	ASHLAND MICA SCHIST with garnet and graphite QUARTZITE.

STRATIGRAPHIC CORRELATIONS WITHIN THE PIEDMONT METAMORPHIC ROCKS ARE LARGELY UNKNOWN.

GEOLOGY OF THE BIRMINGHAM QUADRANGLE

CENOZOIC — QUATERNARY

Qal — ALLUVIUM & LOW TERRACE DEPOSITS— UNCONSOLIDATED GRAVEL SAND AND SILT WITH CHERT AND QUARTZ FRAGMENTS. IN MARION AND GREEN COUNTIES INCLUDES HIGH TERRACE DEPOSITS.

Qt — HIGH TERRACE DEPOSITS— SAND AND GRAVEL WITH ROUNDED COBBLES UP TO 6" IN DIAMETER.

MESOZOIC — CRETACEOUS

Ke — EUTAW FORMATION— GRAY TO GREENISH GRAY FINE TO MEDIUM GLAUCONITIC SAND WITH LAYERS OF DARK CLAY.

Km — MC SHAN FORMATION— LIGHT-GRAY LAMINATED CLAY BEDS ALTERNATING WITH THIN, FINE TO COARSE-GRAINED GLAUCONITIC SAND BEDS.

Kg — GORDO FORMATION— POORLY SORTED FINE TO COARSE SAND WITH SOME MOTTLED CLAY.

Kck — COKER FORMATION— SAND AND GRAVEL WITH IRREGULAR CARBONACEOUS LENSES AND CLAY BEDS. WHITE TO PINK, FINE TO COARSE-GRAINED MICACEOUS SAND, LOCALLY WITH SOME SILICEOUS GRAVEL. CROSSBEDDING IN UPPER PART.

Kt — TUSCALOOSA FORMATION— UNDIFFERENTIATED COKER AND GORDO SANDSTONES.

PALEOZOIC — PENNSYLVANIAN

Pbr (Psr, Pcn, Pwr) — POTTSVILLE FORMATION— BREMEN SHALE (Pbr) INCLUDES STRAIGHT RIDGE (Psr), CHESTNUT (Pcn), AND WOLF RIDGE (Pwr) SANDSTONES.

Pby (Ppi, Plc, Pps, Psn) — BOYLES (Pby) INCLUDES PINE (Ppi), LICK CREEK (Plc), SHADES (Pps), SANDSTONES AND STRAVEN (Psn) CONGLOMERATE.

Pvp — POTTSVILLE (Pvp) UNDIFFERENTIATED BREMEN AND BOYLES.

MISSISSIPPIAN (PMc)

Mp — PARKWOOD FORMATION— LIGHT TO MEDIUM GRAY SANDSTONE WITH INTERBEDDED DARK-GRAY MICACEOUS SHALES AND MUDSTONES.

Mpp — PENNINGTON & PARKWOOD FORMATIONS— PENNINGTON COMPOSED OF INTERBEDDED RED AND TAN SHALE AND CHERTY LIMESTONE.

Mf — FLOYD SHALE— DARK-GRAY CLAY SHALE, FINE-GRAINED SANDSTONE WITH THIN FERRUGINOUS BEDS.

Mb — BANGOR LIMESTONE— GRAY TO BLUE-GRAY CRYSTALLINE AND FOSSILIFEROUS LIMESTONE WITH DARK-GRAY CHERT NODULES.

DEVONIAN (MDa)

Mhs — HARTSELLE SANDSTONE— LIGHT-TAN FINE-GRAINED HARD SANDSTONE, LOCALLY INCLUDES GASPER FM— LIGHT-GRAY LITHOGRAPHIC LIMESTONE AND STE. GENEVIEVE LIMESTONE— OOLITIC LIMESTONE.

Mpm — PRIDE MOUNTAIN FORMATION— DARK-GRAY FISSILE SANDY SHALE. INCLUDES OOLITIC LIMESTONE AT BASE.

Mtf — TUSCUMBIA LIMESTONE— THICK-BEDDED, DARK, BIOCLASTIC LIMESTONE. INCLUDES FORT PAYNE CHERT IN SOME AREAS.

Mfp — FORT PAYNE CHERT— GRAY TO ORANGE BEDDED FOSSILIFEROUS CHERT.

Mpm — UNDIFFERENTIATED FORT PAYNE CHERT, MAURY FORMATION— MAURY CONSISTS OF GREEN, RED AND GRAY CLAYSTONE WITH PHOSPHATE NODULES.

Dfm — FROG MOUNTAIN FORMATION— COARSE-GRAINED FRIABLE SANDSTONE.

Dcfm — CHATTANOOGA SHALE— & FROG MT. FM. UNDIFFERENTIATED— CHATTANOOGA IS A GRAY TO BLACK ORGANIC MARINE SHALE.

SILURIAN

Dc — UNDIFFERENTIATED CHATTANOOGA SHALE, RED MOUNTAIN FORMATION,— THE LATTER CONSISTS OF DARK-REDDISH-BROWN SILTSTONE, SANDSTONE AND SHALE WITH HEMATITE BEDS.

Srm — RED MOUNTAIN FORMATION— DARK, REDDISH-BROWN SILTSTONE, SANDSTONE AND SHALE WITH HEMITITE BEDS.

Sc — CLINTON (ROCKWOOD) FORMATION— SHALE AND SANDSTONE WITH BEDS OF IRON ORE.

PALEOZOIC — ORDOVICIAN

Oc — CHICKAMAUGA LIMESTONE— BLUE-GRAY, THIN-TO MEDIUM-BEDDED, FOSSILIFEROUS LIMESTONE WITH SOME SHALE AND CRYSTALLINE LIMESTONE.

Oca — ATTALLA CHERT CONGLOMERATE— MEMBER CHICKAMAUGA LIMESTONE— WHERE MAPPED SEPARATELY, GRAY, COARSE GRAINED CHERT AND REDDISH-ORANGE COARSE CONGLOMERATE OF CHERT CLASTS.

Olm — UNDIFFERENTIATED LITTLE OAK, LENOIR MOSHEIM LIMESTONES— LITTLE OAK, THICK-BEDDED, DARK, CRYSTALLINE LIMESTONE. LENOIR, MEDIUM-COARSE LIMESTONE WITH CLAY VEINS. MOSHEIM, LIGHT-GRAY COMPACT LIMESTONE.

Olv — LONGVIEW LIMESTONE— LIGHT-GRAY THICK-BEDDED CHERTY LIMESTONE AND DOLOMITE.

Onl — ODENVILLE, NEWALA & LONGVIEW LIMESTONES— ODENVILLE CONSISTS OF ARGILLACEOUS AND SILICEOUS DARK-GRAY CHERTY LIMESTONE. NEWALA, PURE DARK TO PEARL-GRAY THICK-BEDDED LIMESTONE.

Ou — UNDIFFERENTIATED LITTLE OAK, LENOIR MOSHEIM LIMESTONES, (Olm), ODENVILLE, NEWALA, LONGVIEW LIMESTONES (Onl).

O€c — CHEPULTEPEC DOLOMITE— DOLOMITE WITH MEALY, CAVERNOUS, FOSSILIFEROUS CHERT.

O€cr — COPPER RIDGE DOLOMITE— THICK-BEDDED COARSE DOLOMITE WITH LARGE CHERT BOULDERS.

O-€k (O€u) — KNOX GROUP— INCLUDES O€c, AND O€cr.

-€kt — KETONA DOLOMITE— LIGHT BROWNISH-GRAY TO YELLOWISH-GRAY CRYSTALLINE DOLOMITE.

O€b (O€bk) — BIBB DOLOMITE— THICK-BEDDED, DARK-BLUE CRYSTALLINE SILICEOUS DOLOMITE.

O€bf — BRIERFIELD DOLOMITE— THICK-BEDDED SILICEOUS DOLOMITE.

CAMBRIAN

€c — CONASAUGA FORMATION— THIN-BEDDED BROWNISH-GRAY LIMESTONE, GRAY SHALE, BROWNISH-GRAY DOLOMITE.

€r — ROME FORMATION— RED AND GREEN SHALE, THIN LIMESTONE BEDS, CHERT AND SANDSTONE.

€s — SANDY LIMESTONE— THICK-BEDDED LIGHT-GRAY LIMESTONE.

€w — WEISNER FORMATION— SHALE WITH QUARTZITE AND SILICEOUS IRON ORE BEDS.

STRATIGRAPHIC CORRELATIONS OF THE PIEDMONT METAMORPHICS ARE LARGELY UNKNOWN.

METAMORPHIC ROCKS

PRECAMBRIAN TO PALEOZOIC — PROTEROZOIC TO PENNSYLVANIAN

ta (tj, tss, tfs, tb, ts, tsc) — TALLADEGA SLATE— DARK-BLUE SLATE, APPROACHING MICA SCHIST, INCLUDES JUMBO DOLOMITE (tj), MASSIVE SANDSTONE, (tss), FERRUGINOUS SANDSTONE, (tfs), BREWER PHYLLITE, (tb), SYLACAUGA MARBLE, (tsc), SAWYER LIMESTONE, (ts).

wa — WAXAHATCHEE SLATE— BLUISH SERICITIC SLATE.

pgr — PINCKNEYVILLE GRANITE— MASSIVE HORNBLENDE-BIOTITE GRANITE GNEISS.

hs — HILLABEE CHLORITE SCHIST—

€cw — WEDOWEE FORMATION— PHYLLITE, QUARTZITE, SCHIST WITH GRAPHITE.

Aa — ASHLAND MICA SCHIST— WITH QUARTZITE, GARNET AND GRAPHITE.

SYMBOLS

CONTACTS

CONCEALED FAULT

FAULT

SYNCLINE

ANTICLINE

WATER - WA

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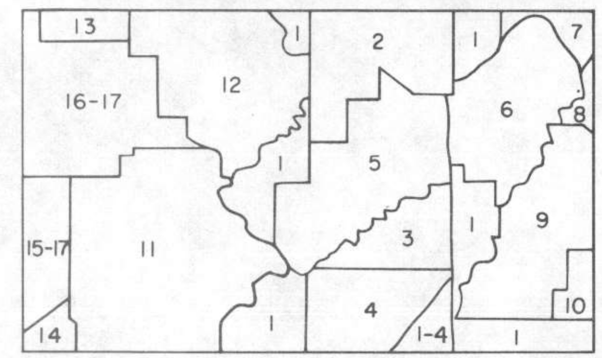
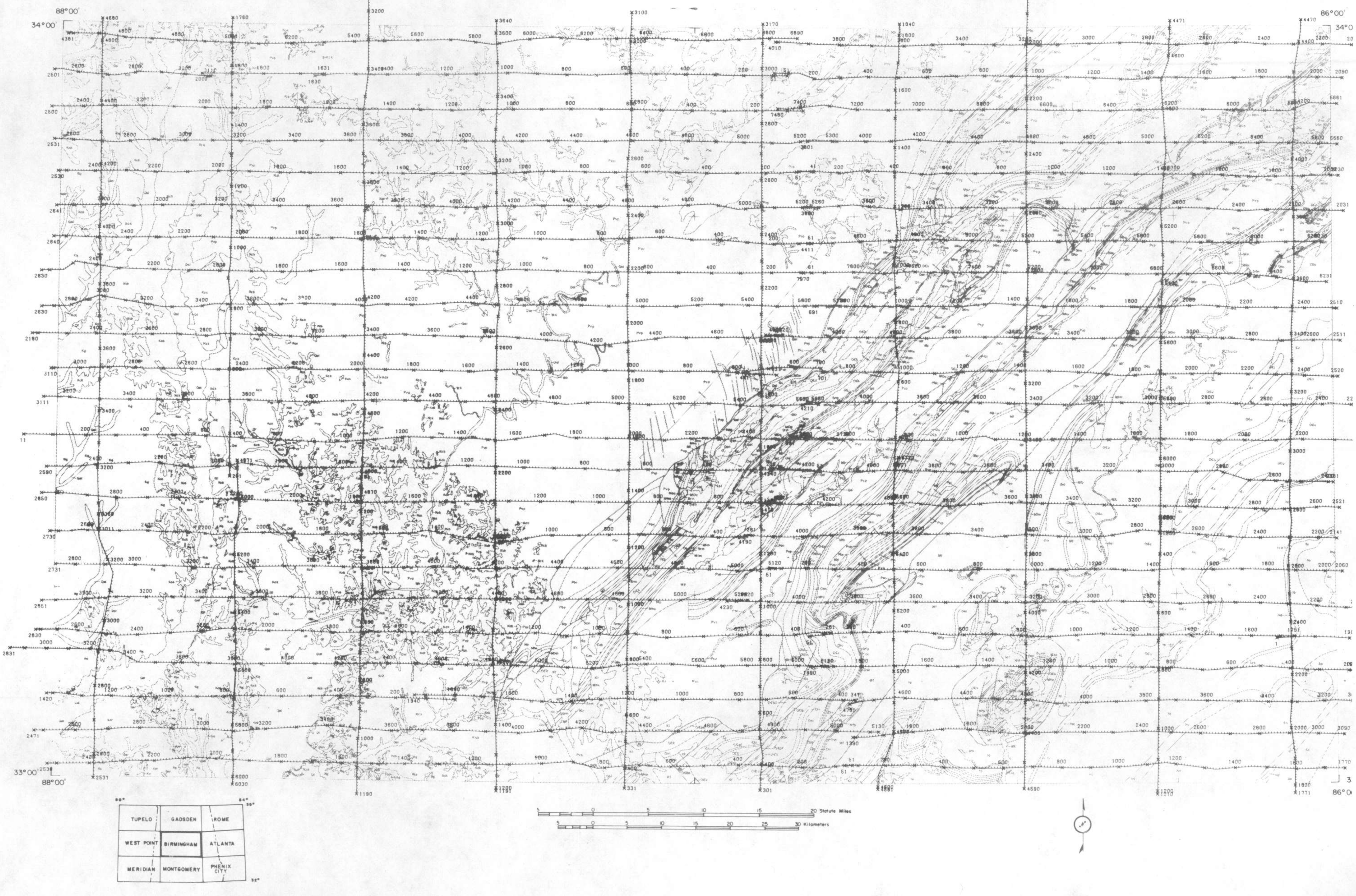
GEOLOGIC SOURCE DATA MAP



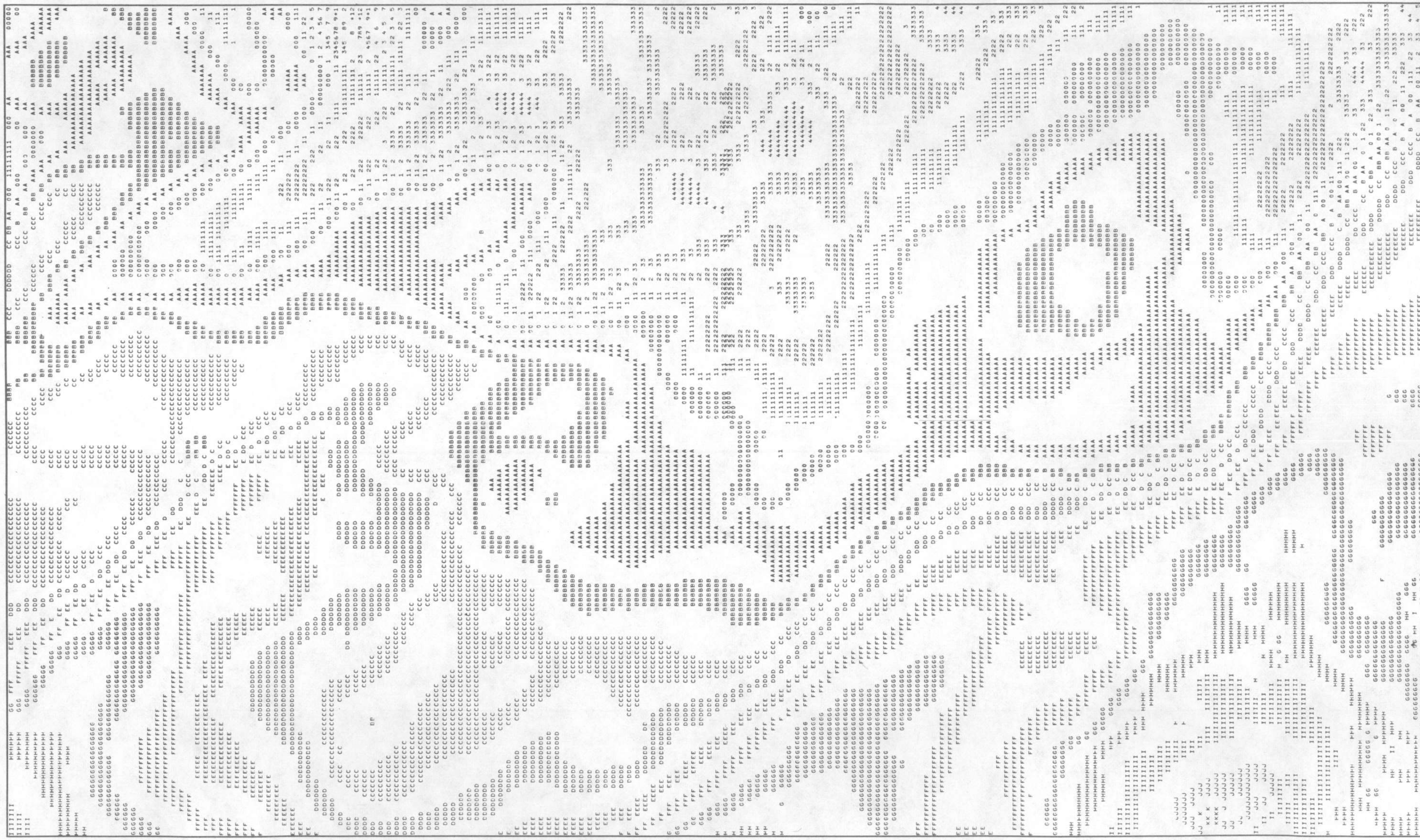
APPENDIX D - FLIGHT LINE/GEOLOGY MAP

BIRMINGHAM, ALABAMA



APPENDIX E - PSEUDO CONTOUR MAPS

BIRMINGHAM



MAGNETIC
PSEUDO-CONTOUR MAP

LISTER PLOT UNITS - GAMMAS

CONTOUR INTERVAL = 50.00
REFERENCE CONTOUR (00000) = 53750.00

BIRMINGHAM

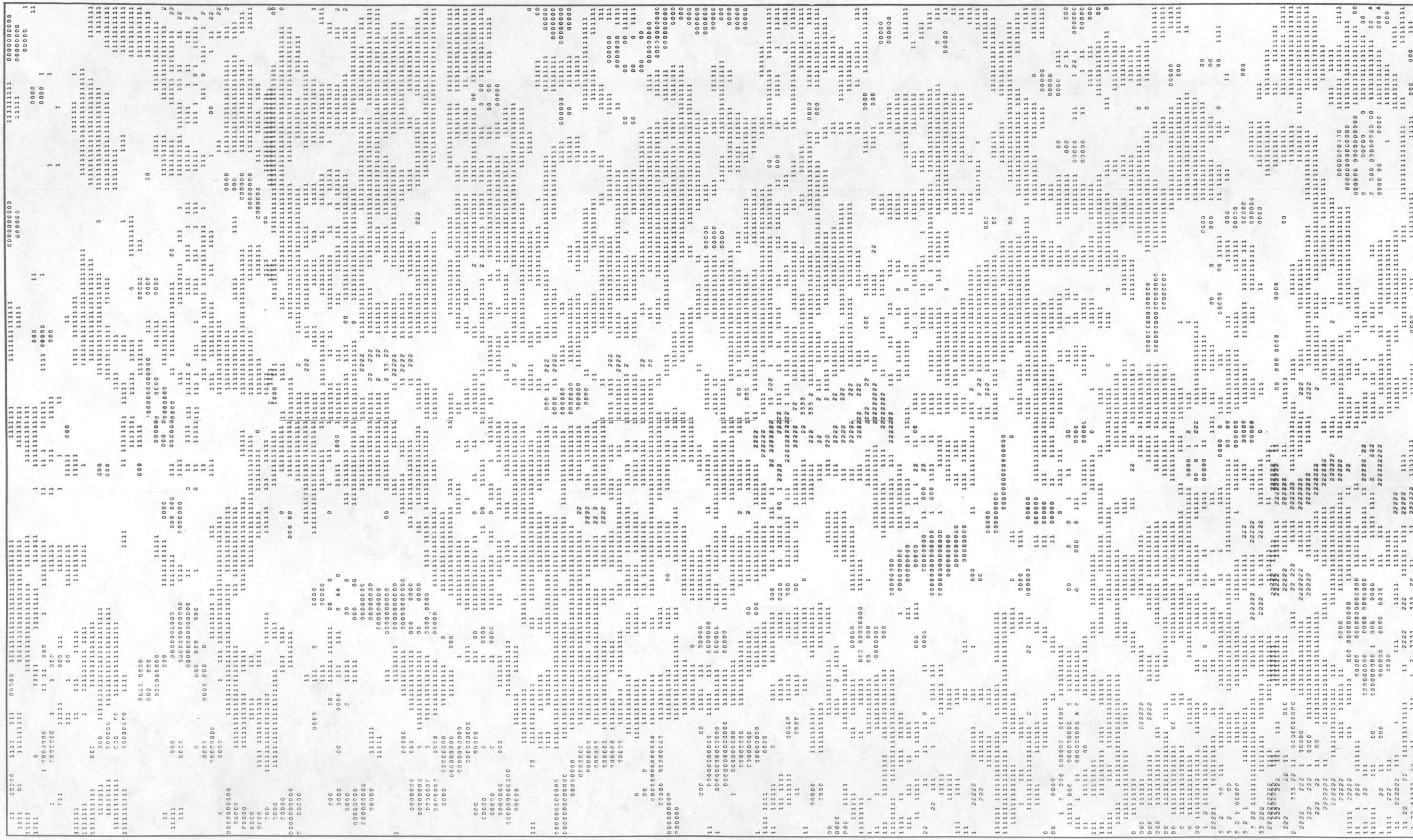
TOTAL COUNT
PSEUDO-CONTOUR MAP

LISTER PLOT UNITS - COUNTS PER SECOND

CONTOUR INTERVAL = 250.00
REFERENCE CONTOUR (00000) = 500.00

N

BIRMINGHAM

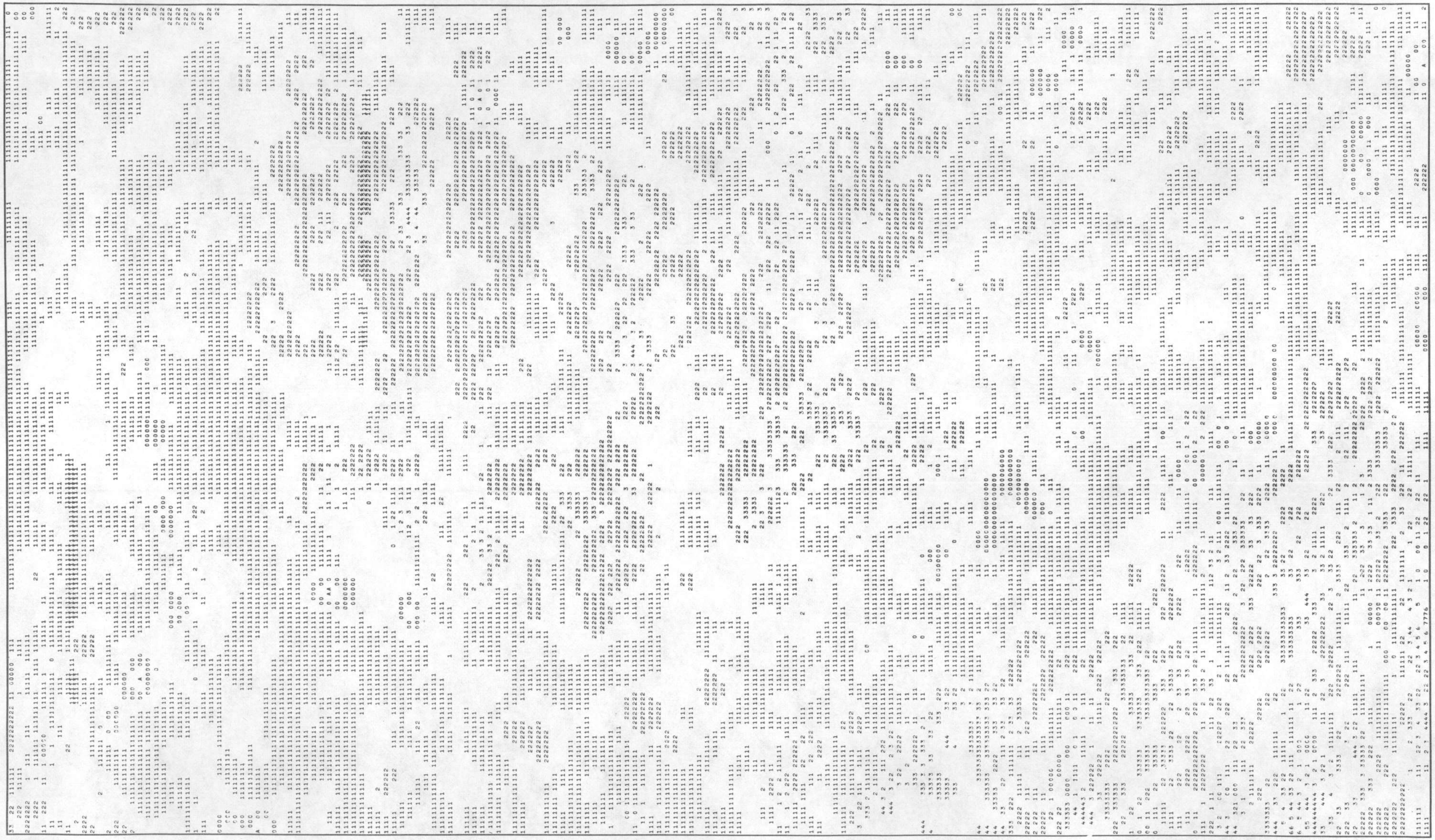


BISMUTH
PSEUDO-CONTOUR MAP

LISTER PLOT UNITS - PARTS PER MILLION - EQUIVALENT U

CONTOUR INTERVAL = .50
REFERENCE CONTOUR (00000) = 1.00

BIRMINGHAM

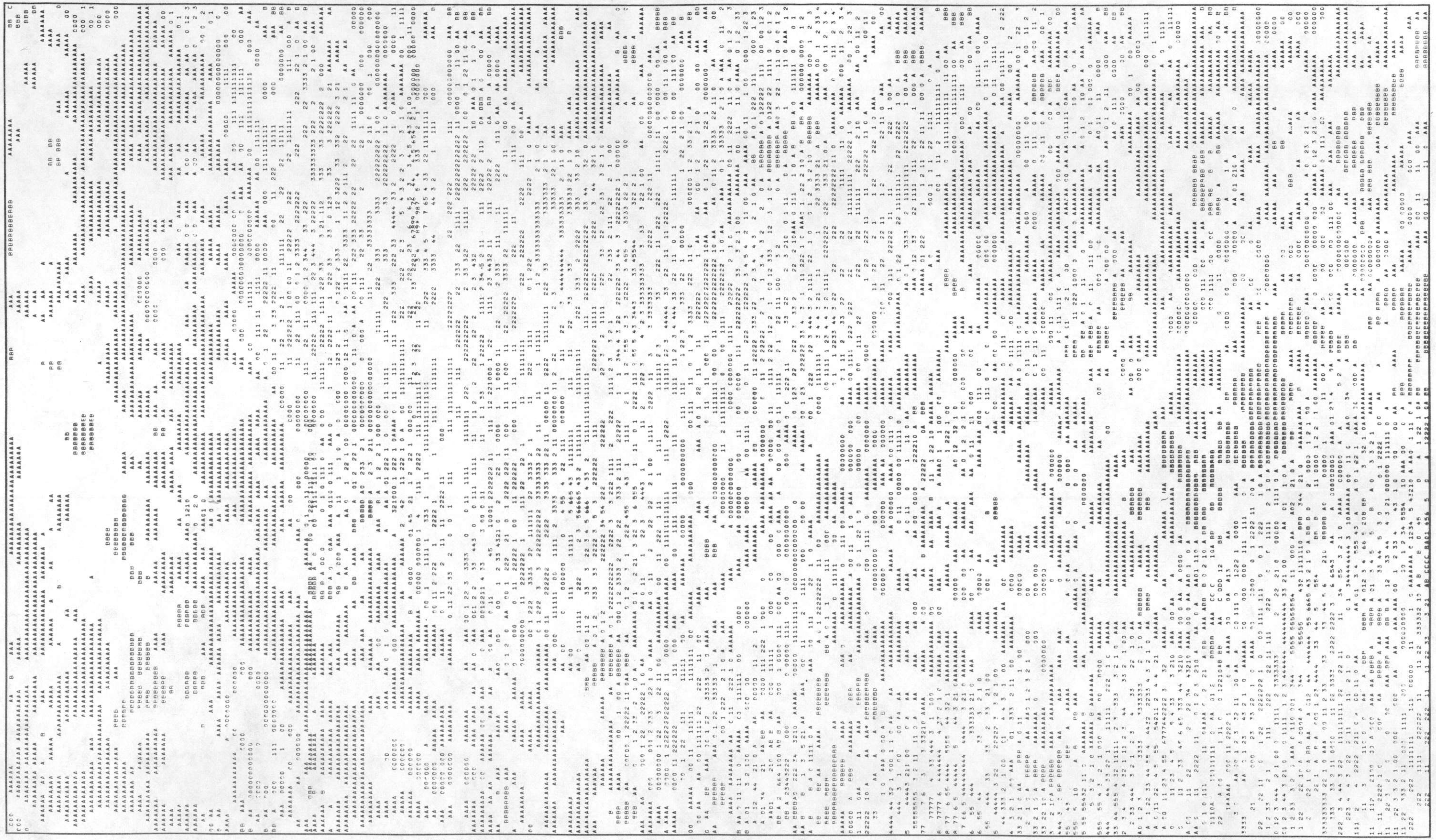


THORIUM
PSEUDO-CONTOUR MAP

LISTER PLOT UNITS - PARTS PER MILLION - EQUIVALENT TH

CONTOUR INTERVAL = 1.00
REFERENCE CONTOUR (00000) = 2.00

BIRMINGHAM



POTASSIUM 40
PSEUDO-CONTOUR MAP

LISTED PLOT UNITS = PERCENT K

CONTOUR INTERVAL = .10
REFERENCE CONTOUR (00000) = .50

BIRMINGHAM

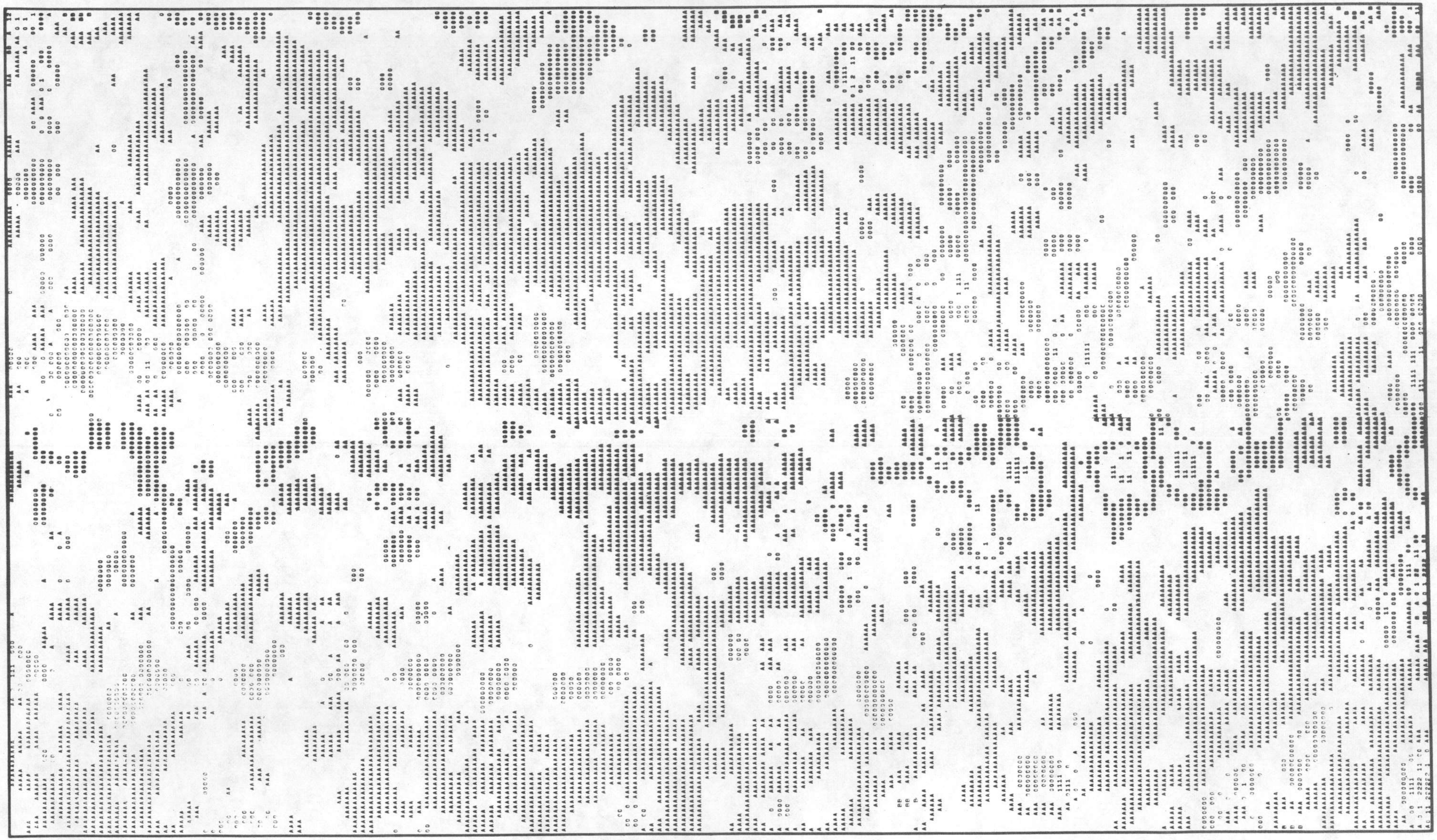
URANIUM / THORIUM RATIO
PSEUDO-CONTOUR MAP

LISTER PLOT UNITS - PPM EQUIVALENT U / PPM EQUIVALENT TH

CONTOUR INTERVAL = .10
REFERENCE CONTOUR (00000) = .50

N

BIRMINGHAM



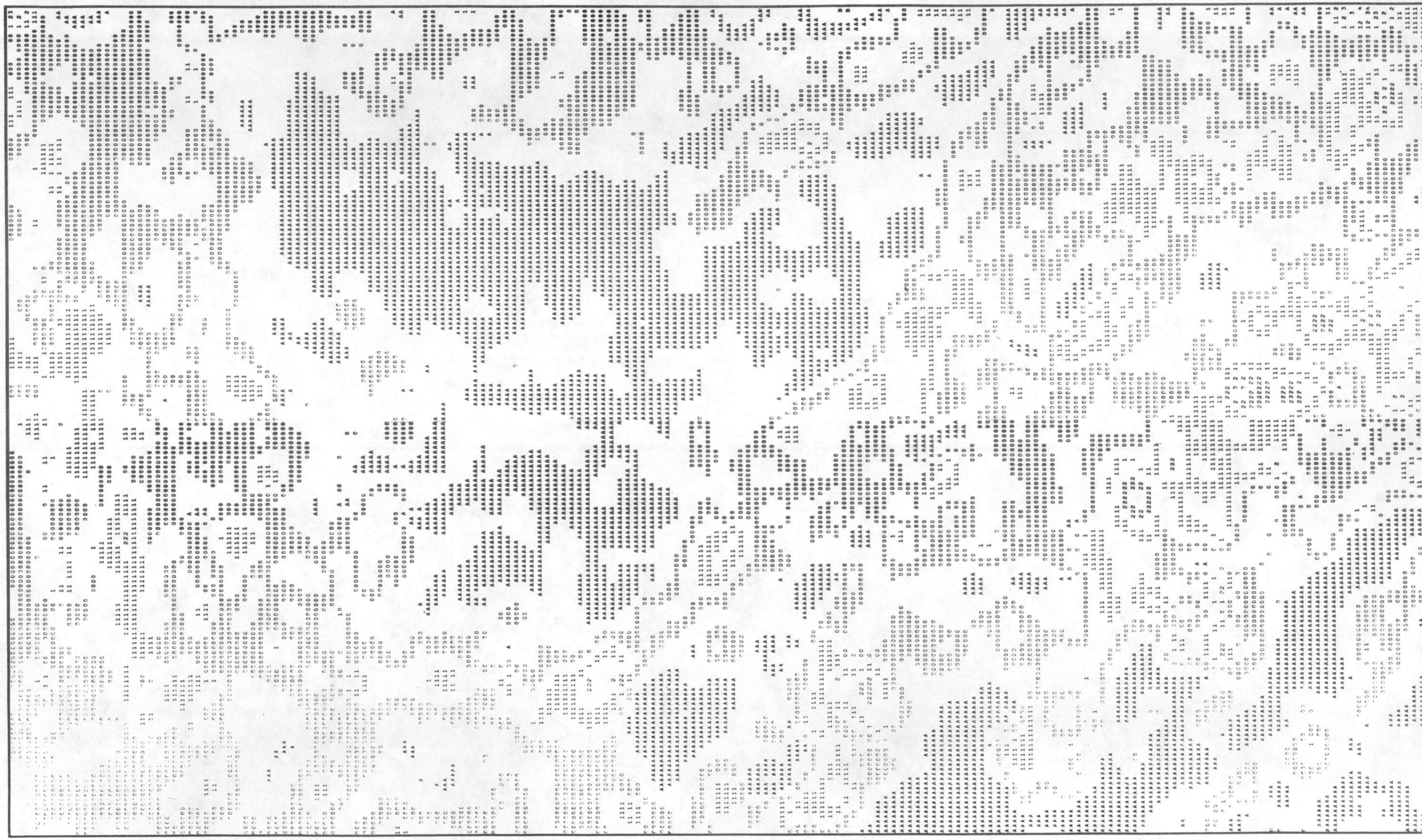
URANIUM / THORIUM RATIO
PSEUDO-CONTOUR MAP

LISTER PLOT UNITS - PPM EQUIVALENT U / PPM EQUIVALENT TH

CONTOUR INTERVAL = .10
REFERENCE CONTOUR (00000) = .50

N

BIRMINGHAM



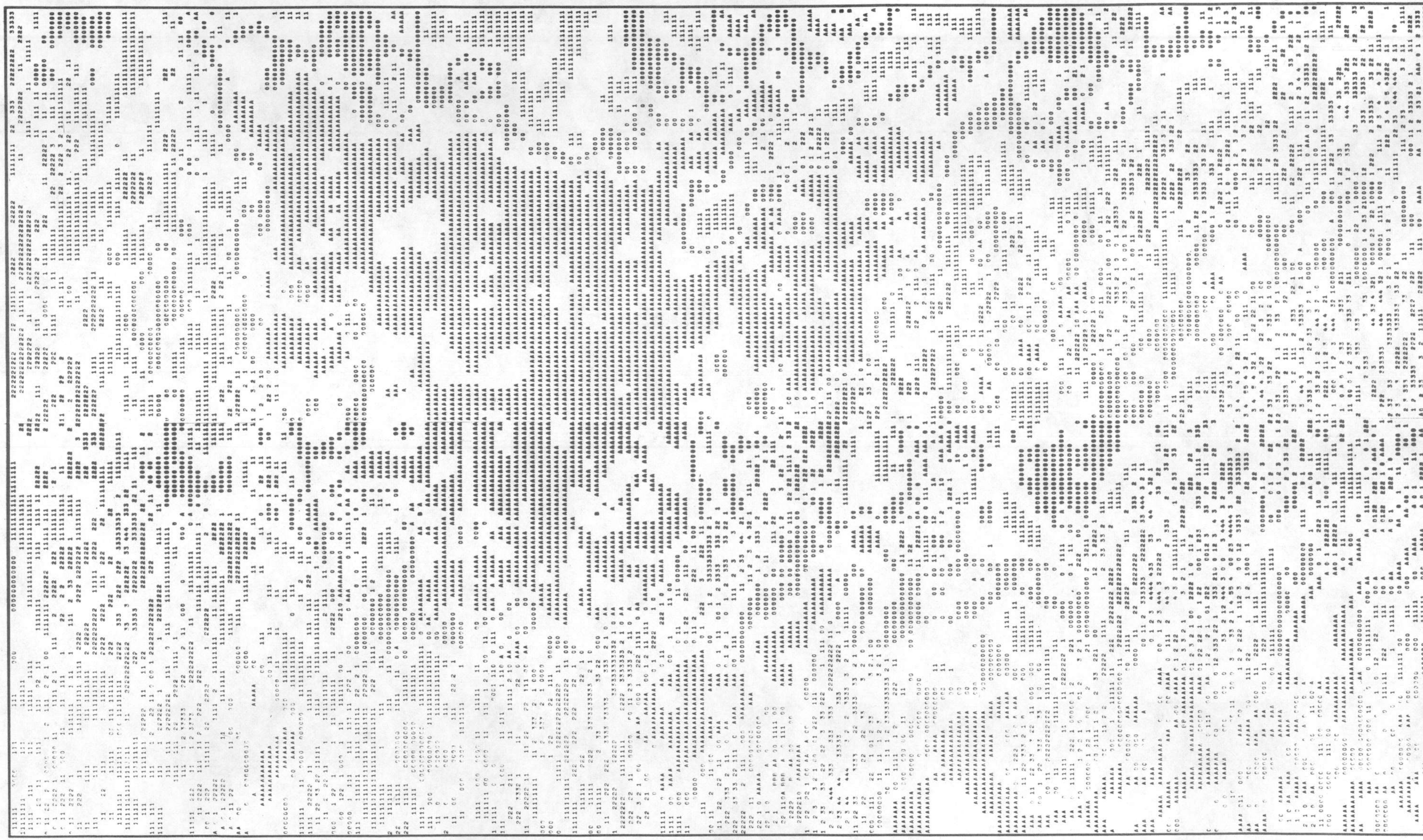
URANIUM / POTASSIUM 40 RATIO
PSEUDO-CONTOUR MAP

LISTER PLOT UNITS - PPM EQUIVALENT U / PERCENT K

CONTOUR INTERVAL = 2.00
REFERENCE CONTOUR ([illegible]) = 5.00

N

BIRMINGHAM



THORIUM / POTASSIUM 40 RATIO

PSEUDO-CONTOUR MAP

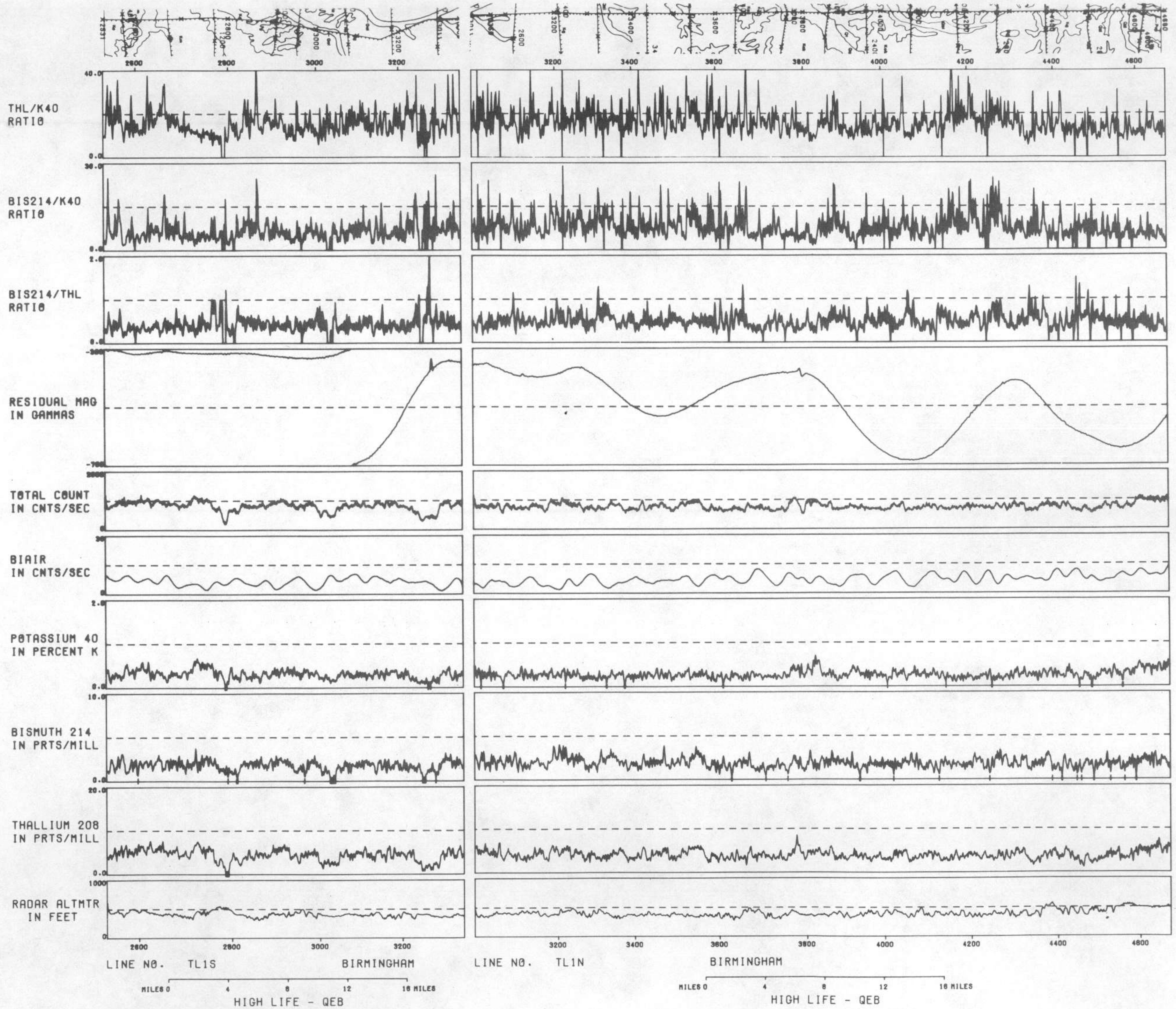
LISTER PLOT UNITS - PPM EQUIVALENT TH / PERCENT K

CONTOUR INTERVAL = 2.00

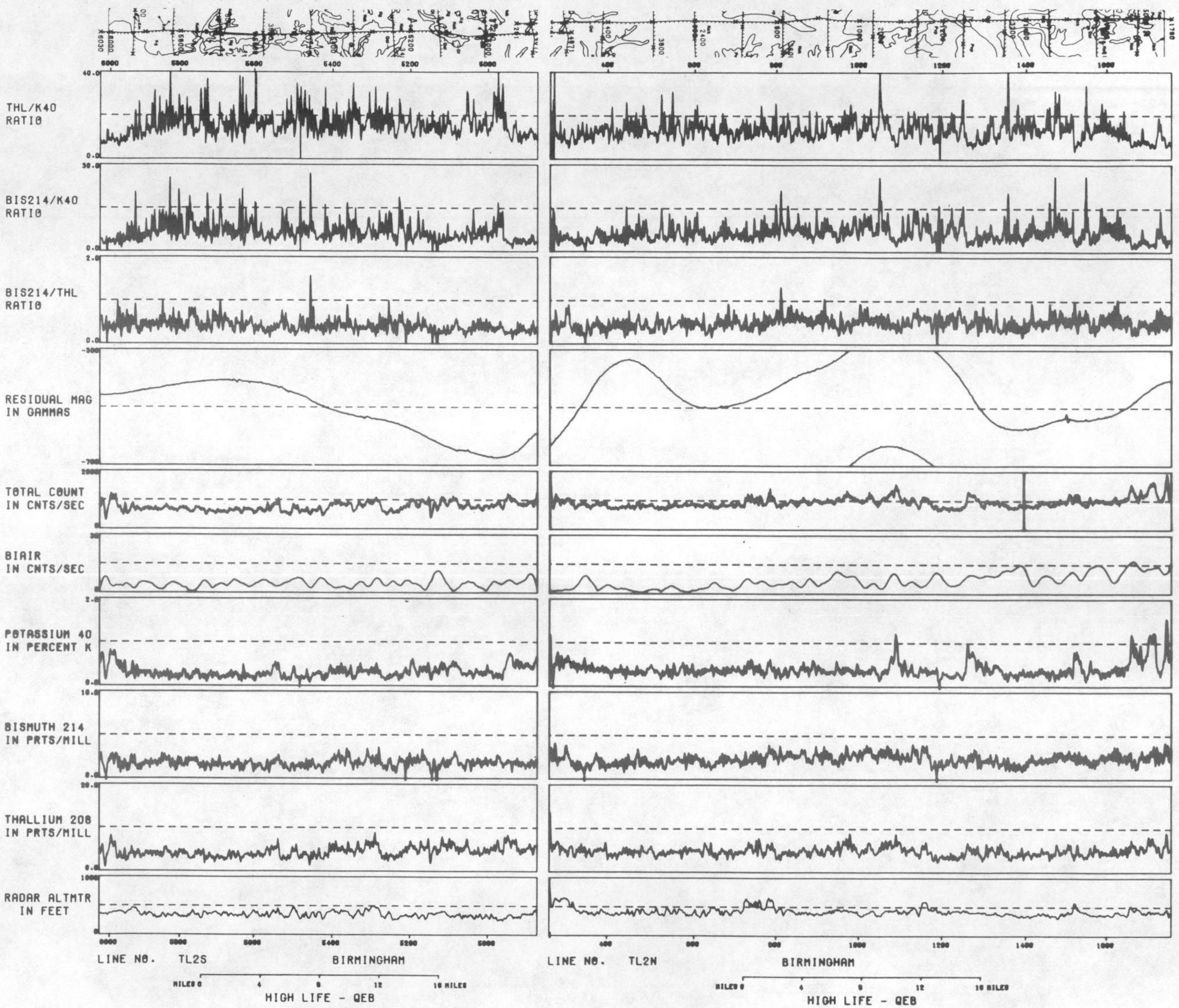
REFERENCE CONTOUR (ZERO) = 10.00

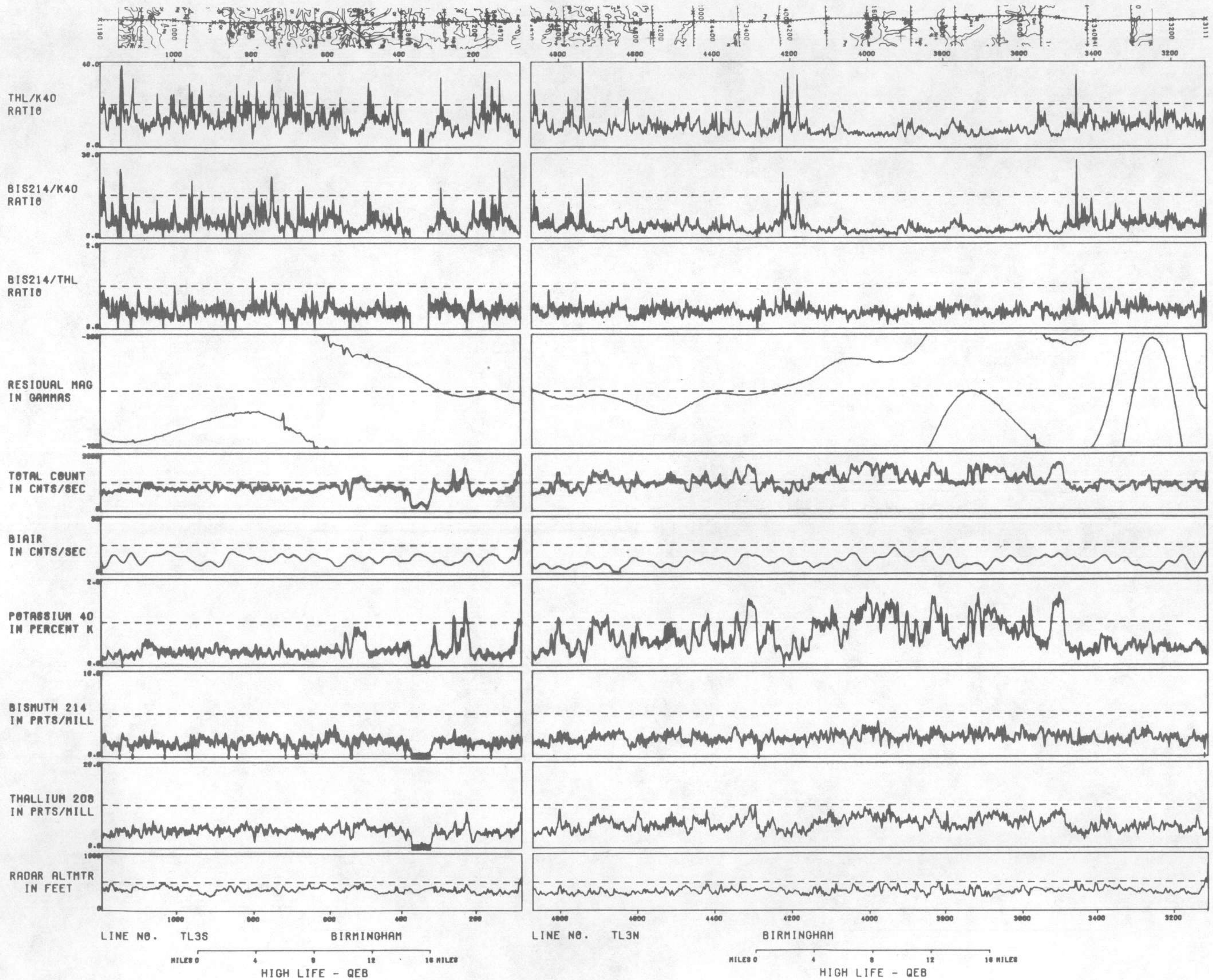
N

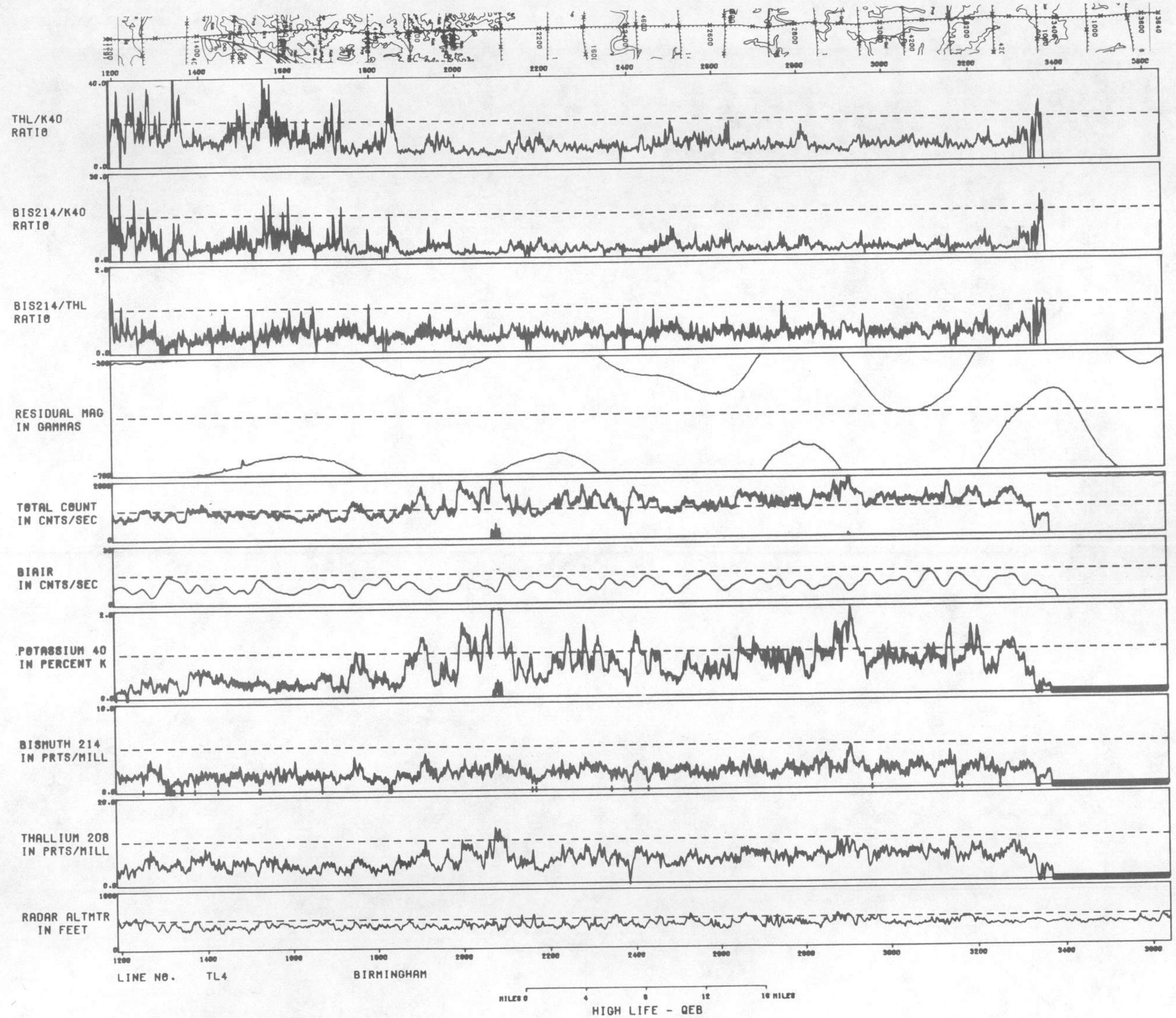
APPENDIX F - STACKED PROFILES

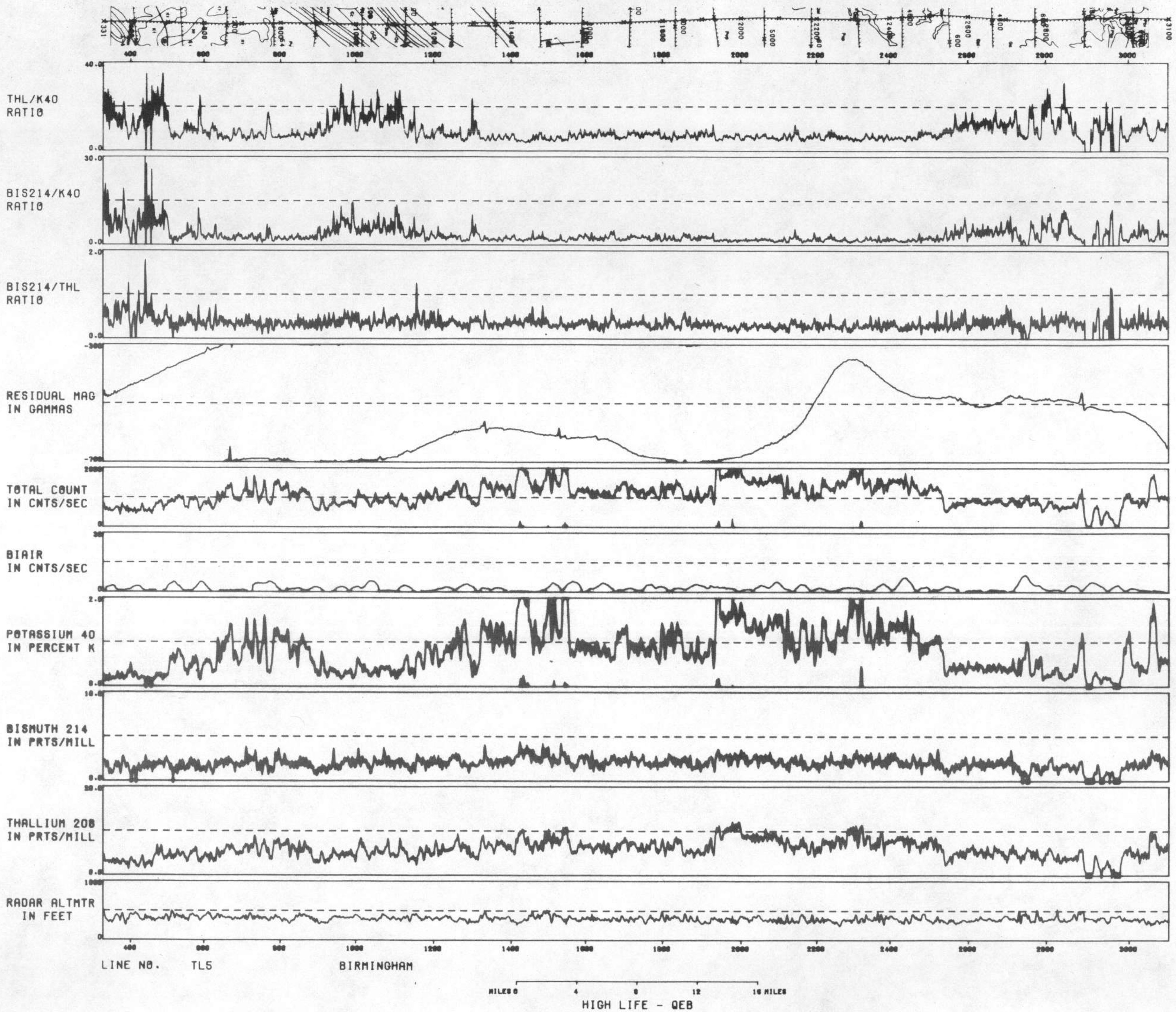


THL/K40 RATIO
BIS214/K40 RATIO
BIS214/THL RATIO
RESIDUAL MAG IN GAMMAS
TOTAL COUNT IN CNTS/SEC
BIAIR IN CNTS/SEC
POTASSIUM 40 IN PERCENT K
BISMUTH 214 IN PRTS/MILL
THALLIUM 208 IN PRTS/MILL
RADAR ALTMTR IN FEET
LINE NO. TL1S BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. TL1N BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB


THL/K40
RATIO
BIS214/K40
RATIO
BIS214/THL
RATIO
RESIDUAL MAG
IN GAMMAS
TOTAL COUNT
IN CNTS/SEC
BIAIR
IN CNTS/SEC
POTASSIUM 40
IN PERCENT K
BISMUTH 214
IN PRTS/MILL
THALLIUM 208
IN PRTS/MILL
RADAR ALTMTR
IN FEET
LINE NO. TL2S
BIRMINGHAM
HIGH LIFE - QEB
LINE NO. TL2N
BIRMINGHAM
HIGH LIFE - QEB


THL/K40 RATIO
BIS214/K40 RATIO
BIS214/THL RATIO
RESIDUAL MAG IN GAMMAS
TOTAL COUNT IN CNTS/SEC
BIAIR IN CNTS/SEC
POTASSIUM 40 IN PERCENT K
BISMUTH 214 IN PRTS/MILL
THALLIUM 208 IN PRTS/MILL
RADAR ALTMTR IN FEET
LINE NO. TL3S BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. TL3N BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB


THL/K40
RATIO
BIS214/K40
RATIO
BIS214/THL
RATIO
RESIDUAL MAG
IN GAMMAS
TOTAL COUNT
IN CNTS/SEC
BIAIR
IN CNTS/SEC
POTASSIUM 40
IN PERCENT K
BISMUTH 214
IN PRTS/MILL
THALLIUM 208
IN PRTS/MILL
RADAR ALTMTR
IN FEET
LINE NO. TL4
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB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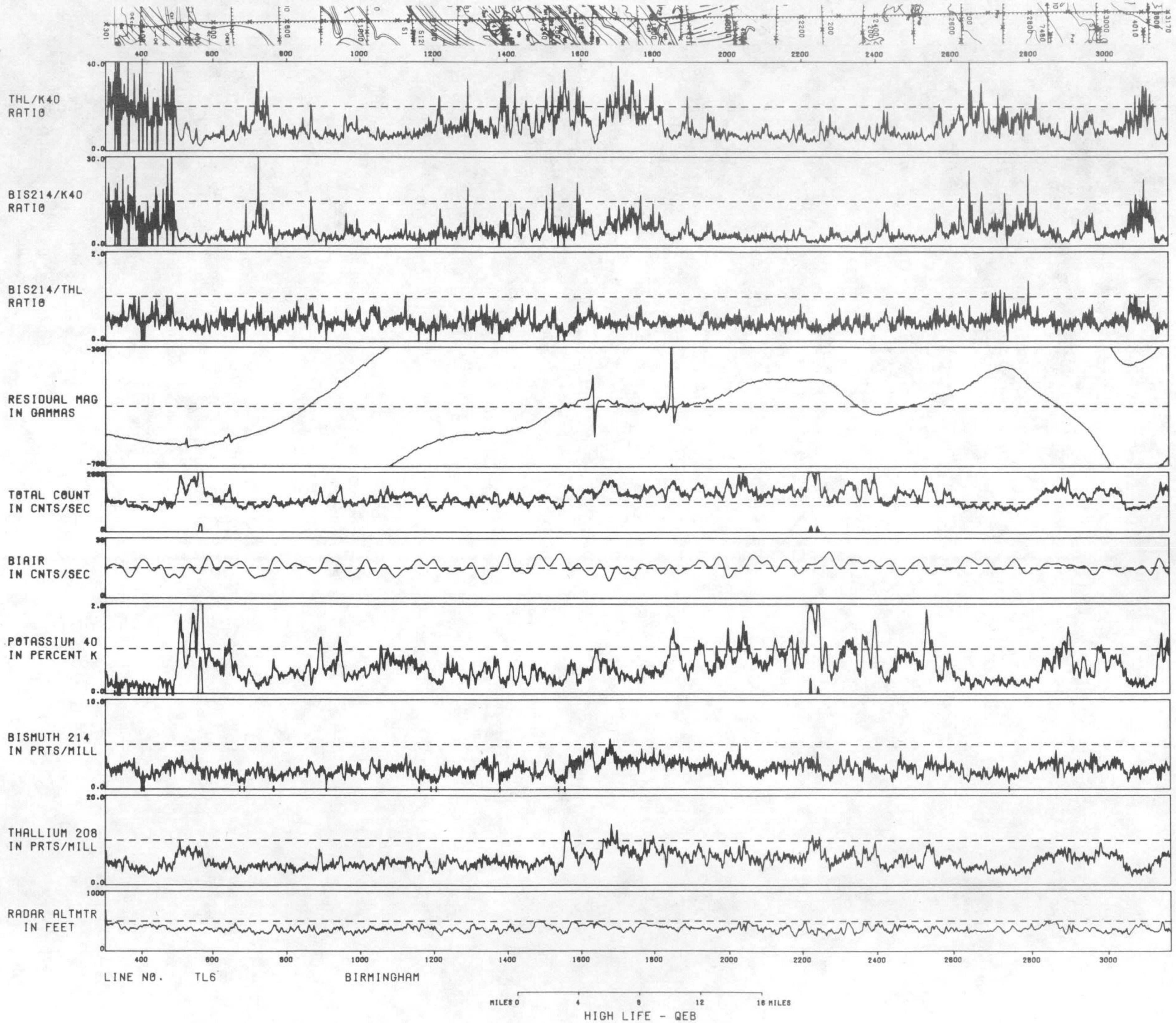
RATIO
BIS214/K40
RATIO
BIS214/THL
RATIO
RESIDUAL MAG
IN GAMMAS
TOTAL COUNT
IN CNTS/SEC
BIAIR
IN CNTS/SEC
POTASSIUM 40
IN PERCENT K
BISMUTH 214
IN PRTS/MILL
THALLIUM 208
IN PRTS/MILL
RADAR ALTMTR
IN FEET
LINE NO.
TL5
BIRMINGHAM
HIGH LIFE - QEB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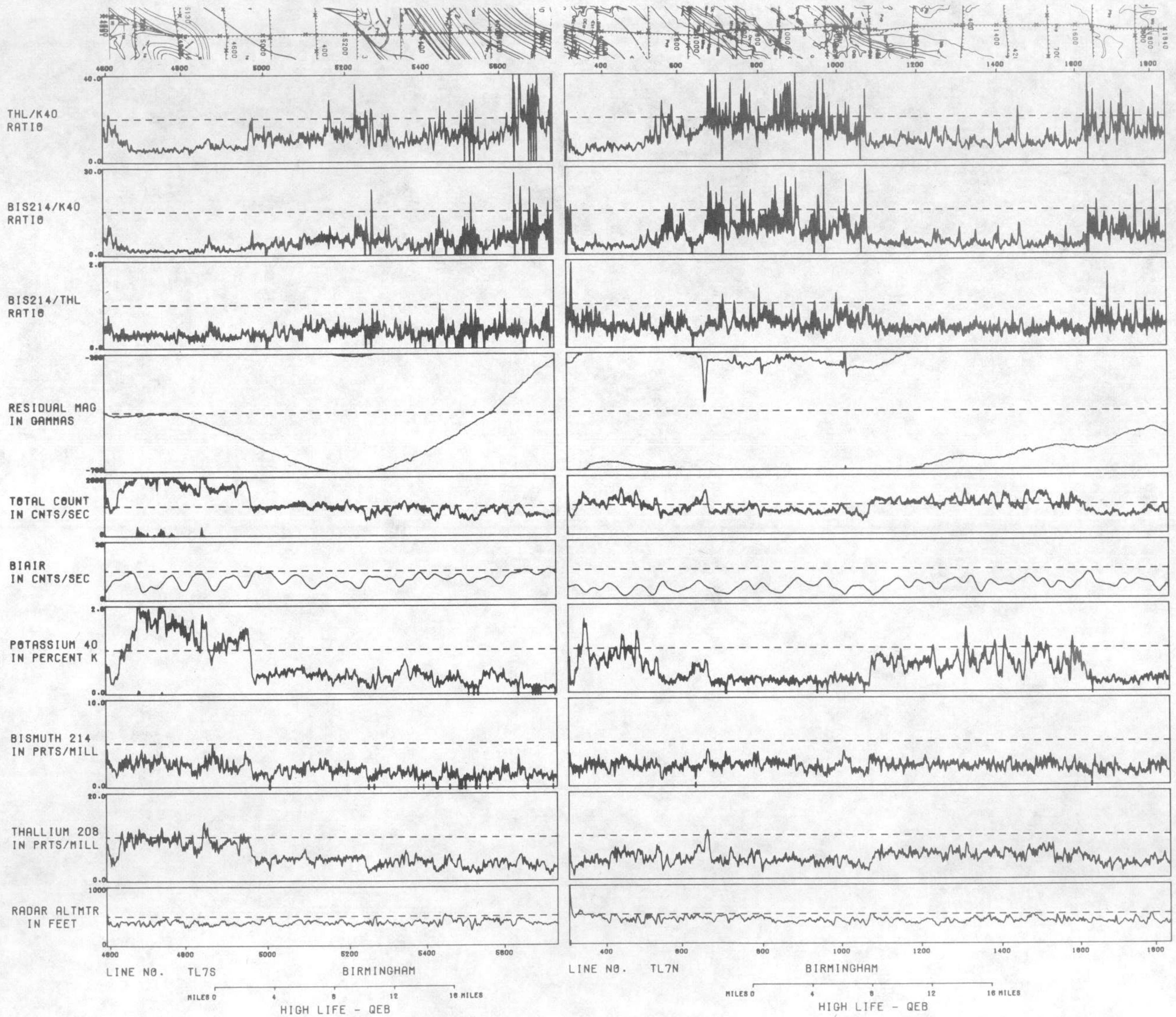
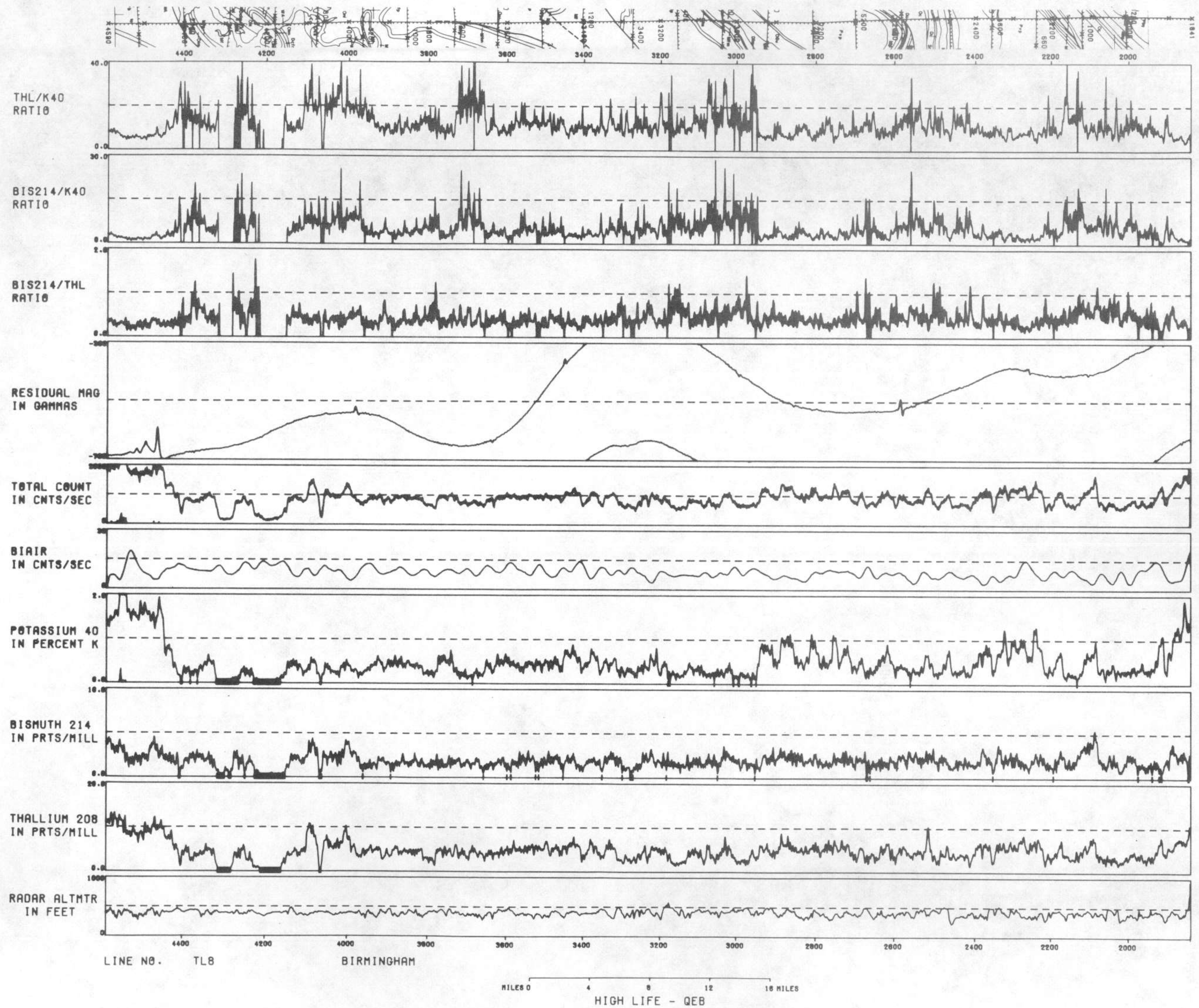
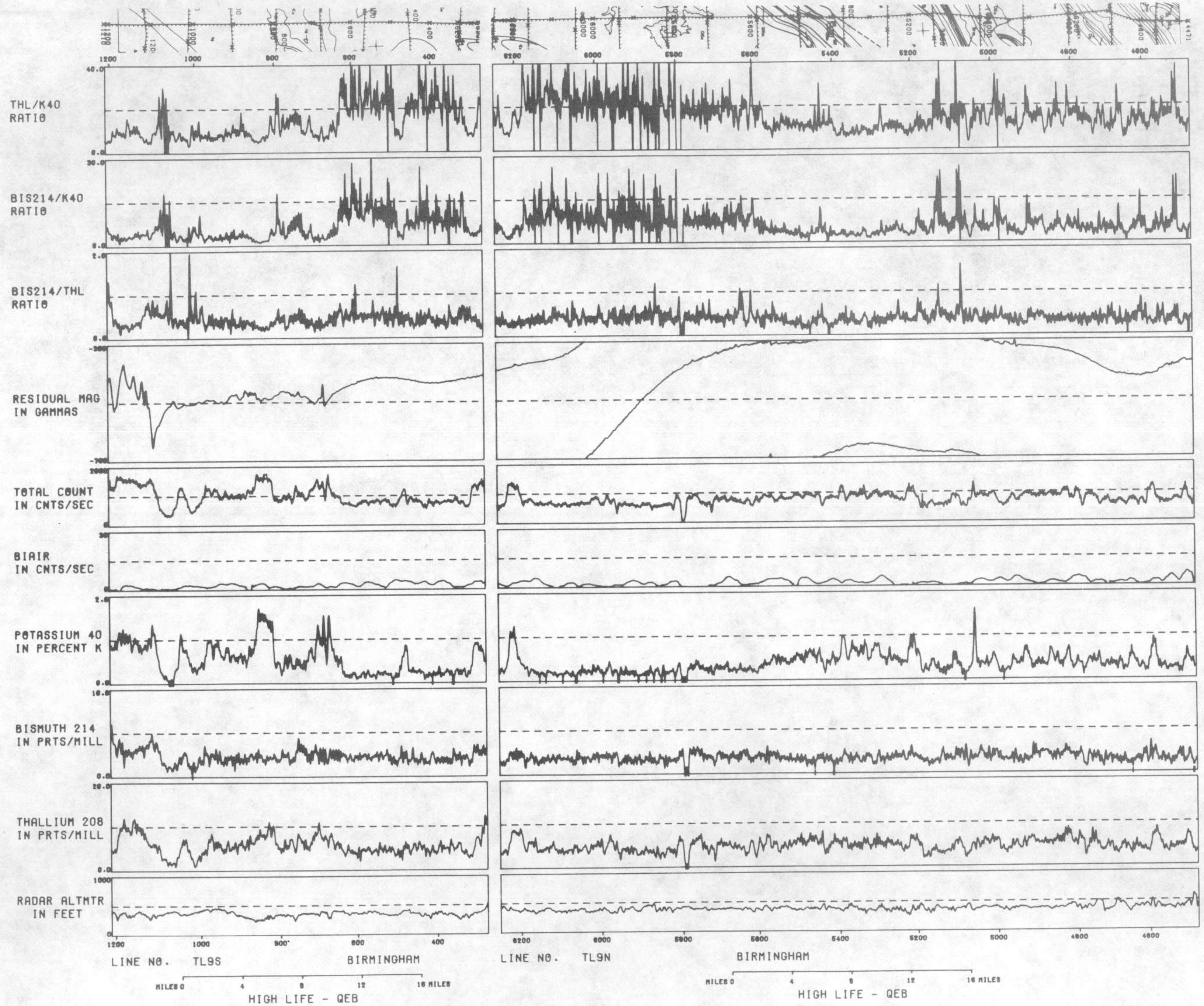
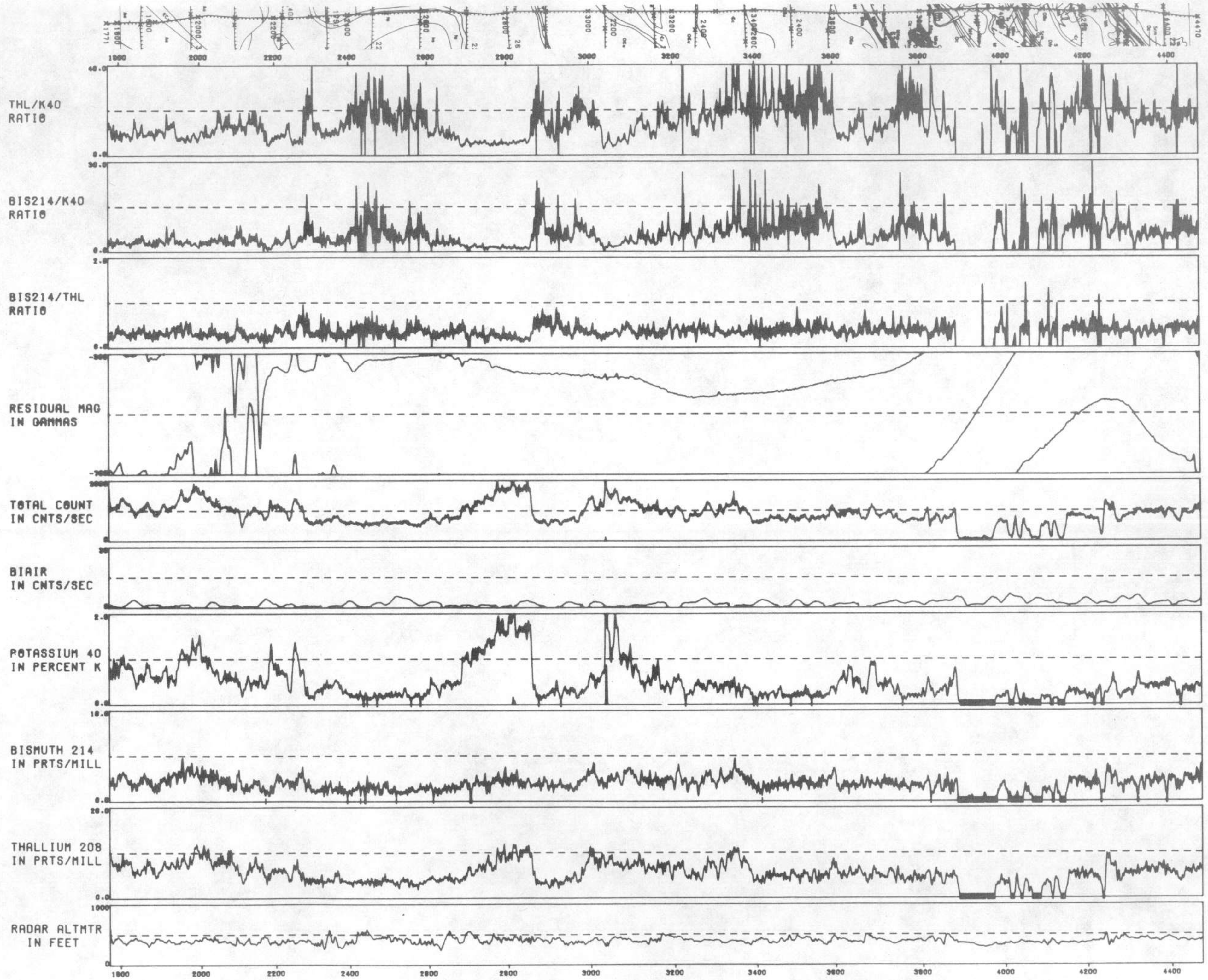
RATIO
BIS214/K40
RATIO
BIS214/THL
RATIO
RESIDUAL MAG
IN GAMMAS
TOTAL COUNT
IN CNTS/SEC
BIAIR
IN CNTS/SEC
POTASSIUM 40
IN PERCENT K
BISMUTH 214
IN PRTS/MILL
THALLIUM 208
IN PRTS/MILL
RADAR ALTMTR
IN FEET
400 600 800 1000 1200 1400 1600 1800 2000 2200 2400 2600 2800 3000
LINE NO. TL6 BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB


THL/K40
RATIO
BIS214/K40
RATIO
BIS214/THL
RATIO
RESIDUAL MAG
IN GAMMAS
TOTAL COUNT
IN CNTS/SEC
BIAIR
IN CNTS/SEC
POTASSIUM 40
IN PERCENT K
BISMUTH 214
IN PRTS/MILL
THALLIUM 208
IN PRTS/MILL
RADAR ALTMTR
IN FEET
LINE NO. TL7S
BIRMINGHAM
HIGH LIFE - QEB
LINE NO. TL7N
BIRMINGHAM
HIGH LIFE - QEB

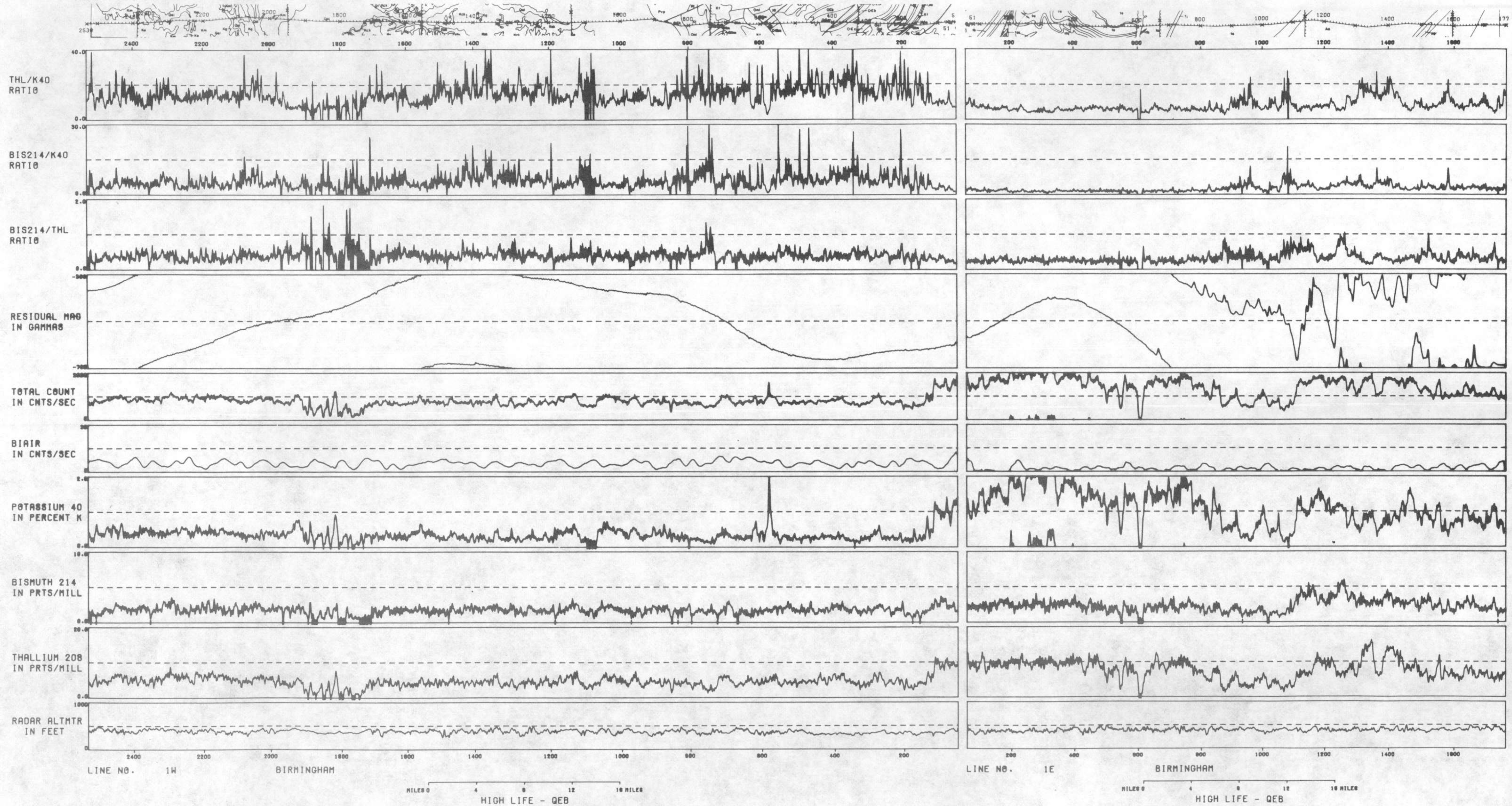

THL/K40
RATIO
BIS214/K40
RATIO
BIS214/THL
RATIO
RESIDUAL MAG
IN GAMMAS
TOTAL COUNT
IN CNTS/SEC
BIAIR
IN CNTS/SEC
POTASSIUM 40
IN PERCENT K
BISMUTH 214
IN PRTS/MILL
THALLIUM 208
IN PRTS/MILL
RADAR ALTMTR
IN FEET
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
LINE NO. TL8 BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB


THL/K40
RATIO
BIS214/K40
RATIO
BIS214/THL
RATIO
RESIDUAL MAG
IN GAMMAS
TOTAL COUNT
IN CNTS/SEC
BIAIR
IN CNTS/SEC
POTASSIUM 40
IN PERCENT K
BISMUTH 214
IN PRTS/MILL
THALLIUM 208
IN PRTS/MILL
RADAR ALTMTR
IN FEET
LINE NO. TL9S
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. TL9N
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB



LINE NO. TL10 BIRMINGHAM

HIGH LIFE - QEB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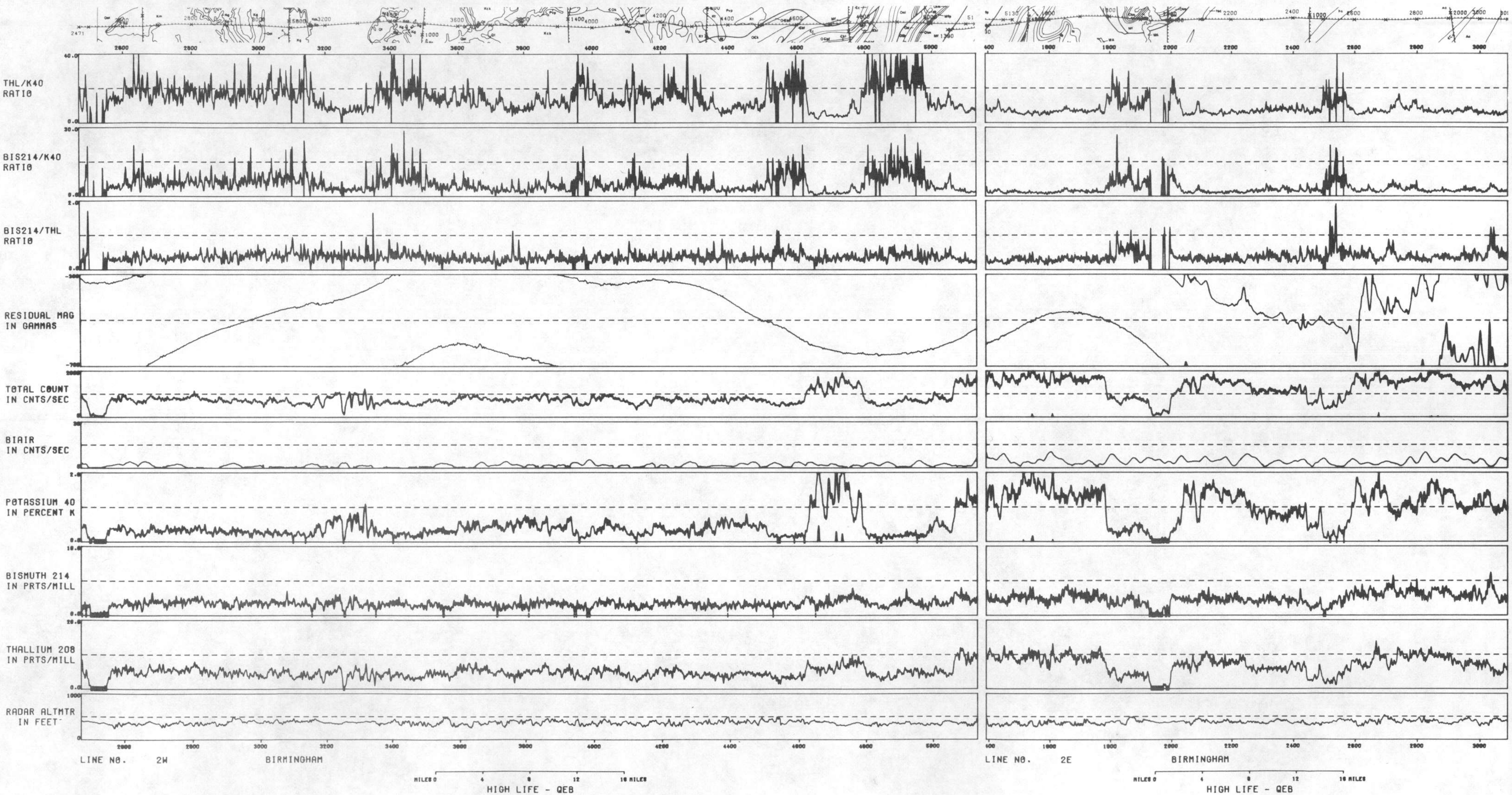
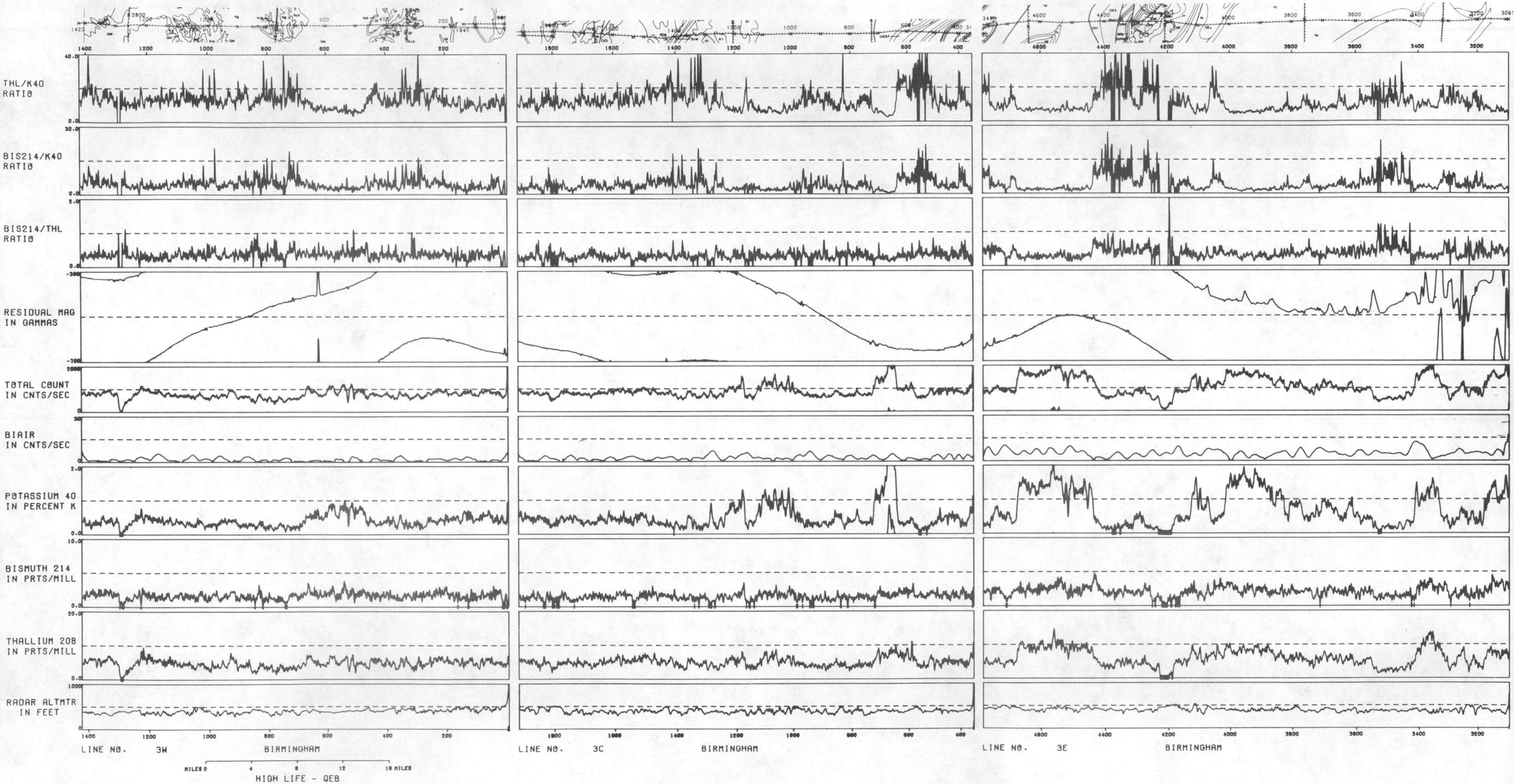
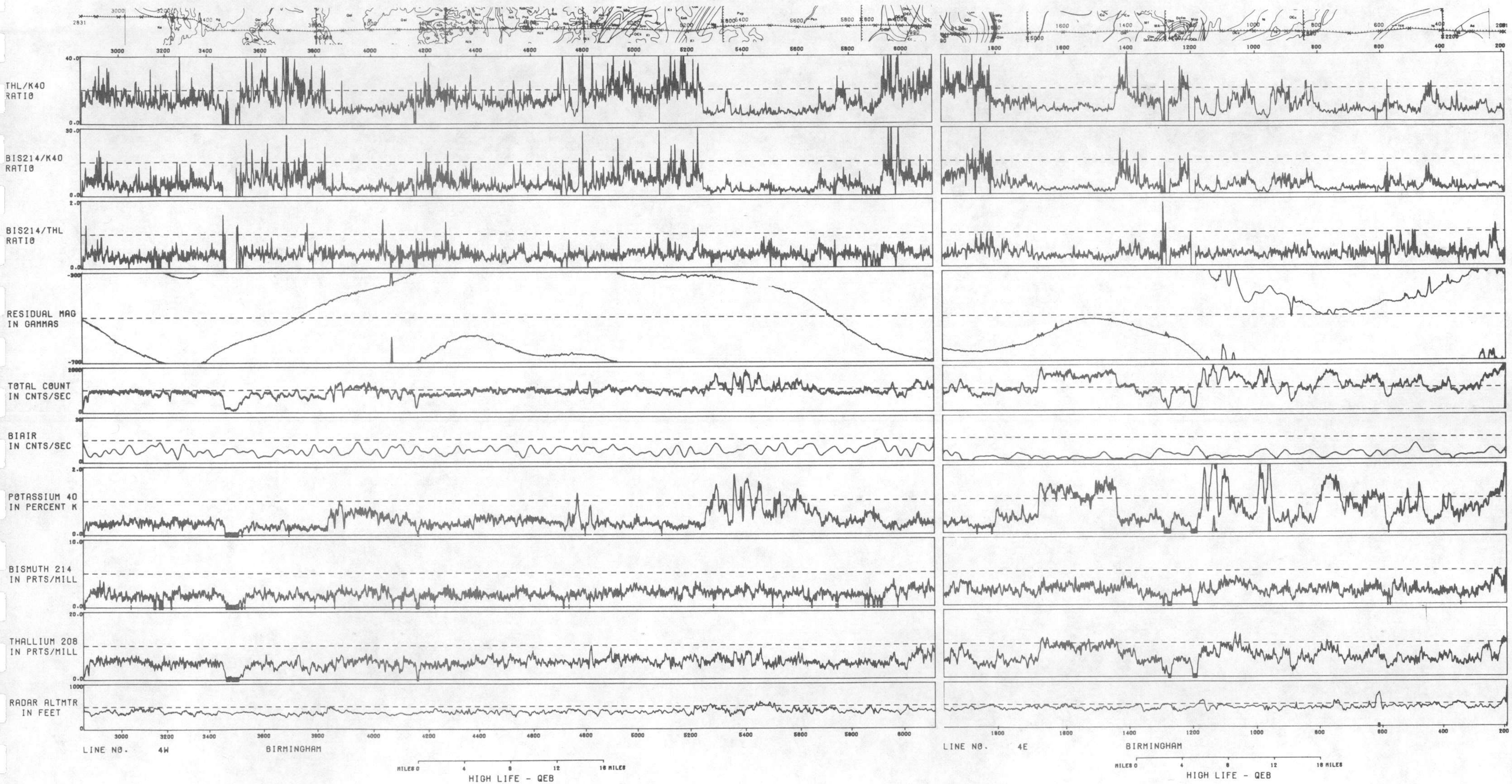
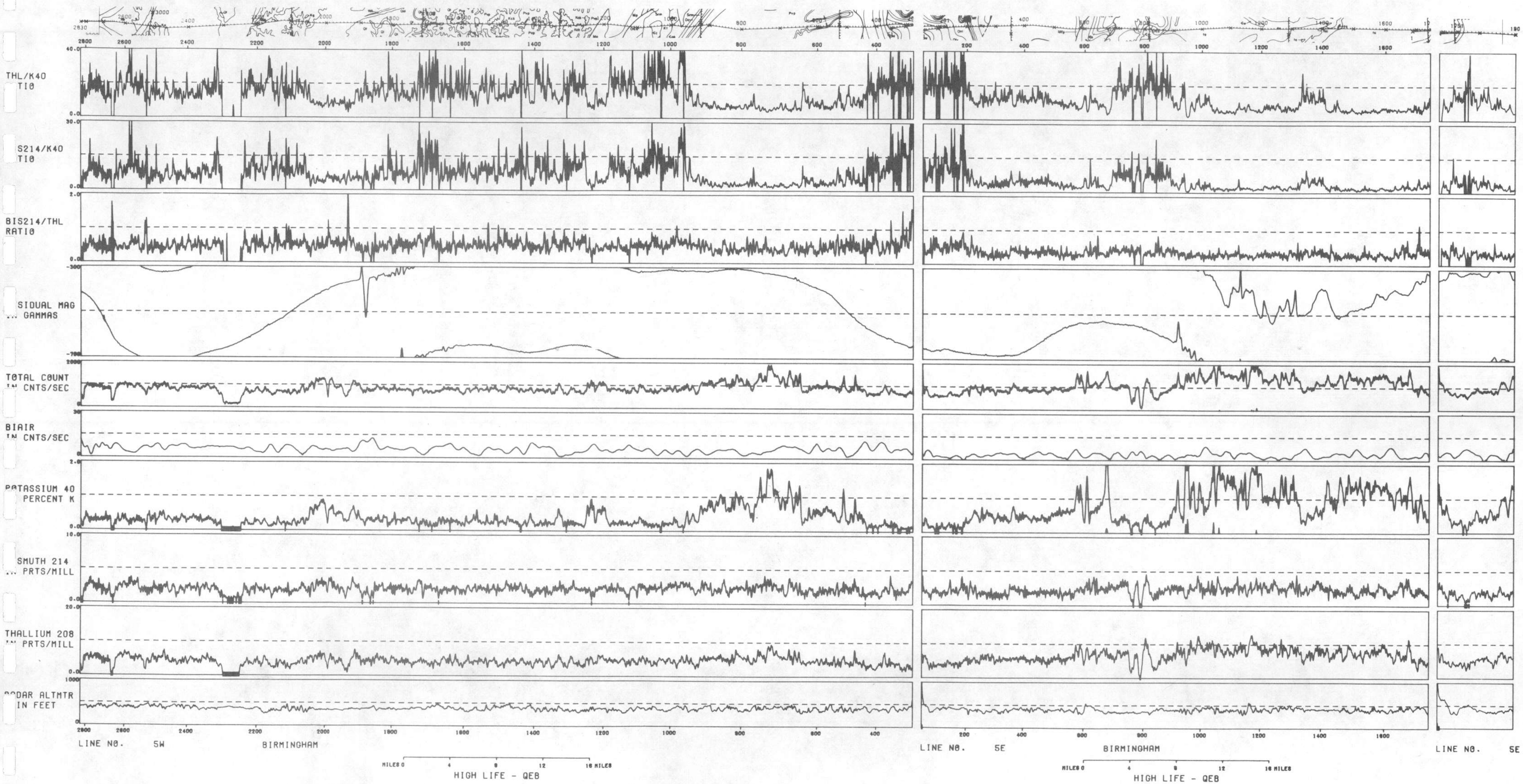
BIS214/K40 RATIO
BIS214/THL RATIO
RESIDUAL MAG IN GAMMAS
TOTAL COUNT IN CNTS/SEC
BIAIR IN CNTS/SEC
POTASSIUM 40 IN PERCENT K
BISMUTH 214 IN PRTS/MILL
THALLIUM 208 IN PRTS/MILL
RADAR ALTMTR IN FEET
LINE NO. 1W BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. 1E BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB



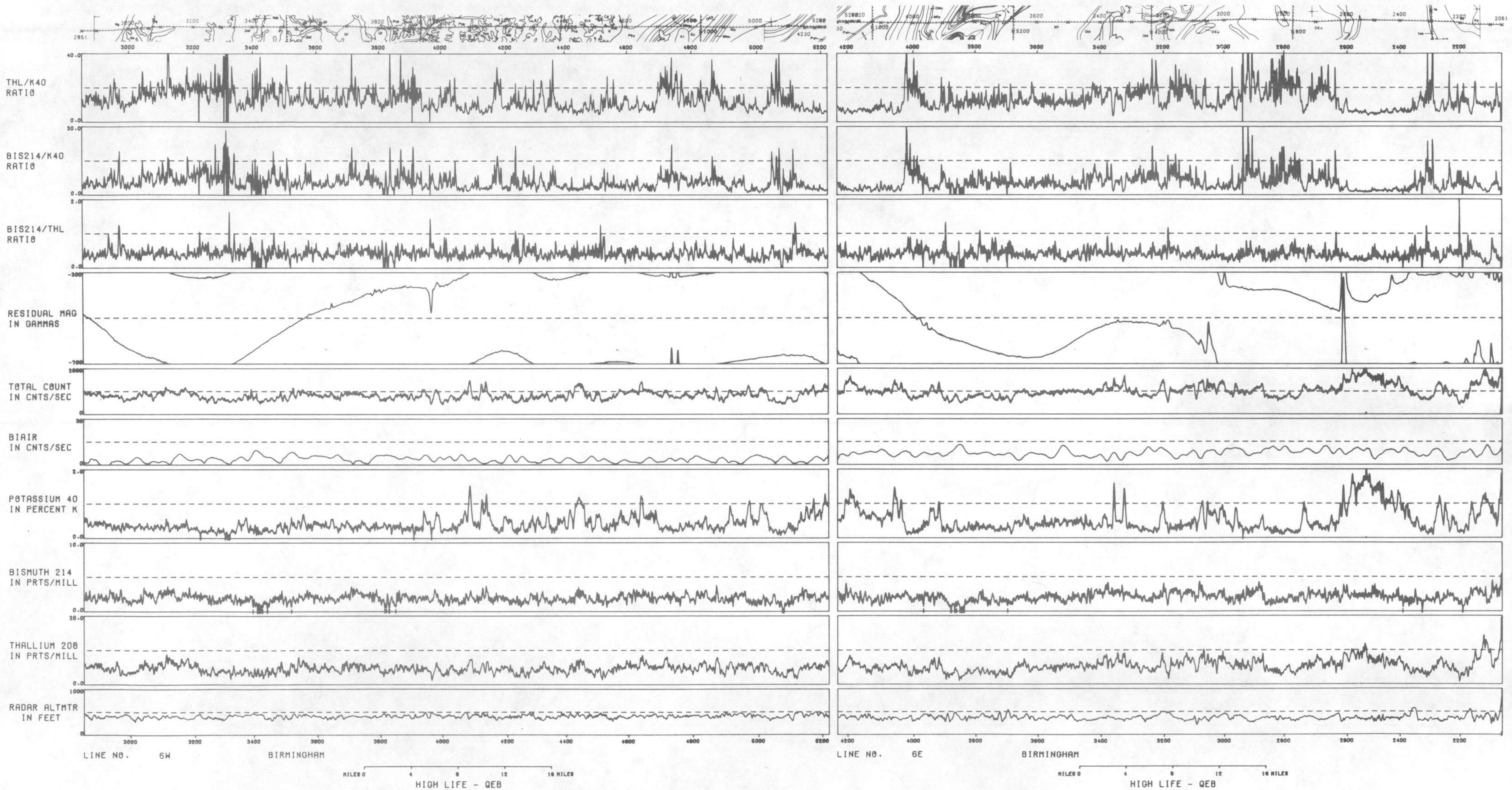
THL/K40
RATIØ
BIS214/K40
RATIØ
BIS214/THL
RATIØ
RESIDUAL MAG
IN GAMMAS
TØTAL CØUNT
IN CNTS/SEC
BIAIR
IN CNTS/SEC
PØTASSIUM 40
IN PERCENT K
BISMUTH 214
IN PRTS/MILL
THALLIUM 208
IN PRTS/MILL
RADAR ALTMTR
IN FEET
LINE NØ. 2W
BIRMINGHAM
HIGH LIFE - QEB
LINE NØ. 2E
BIRMINGHAM
HIGH LIFE - QEB

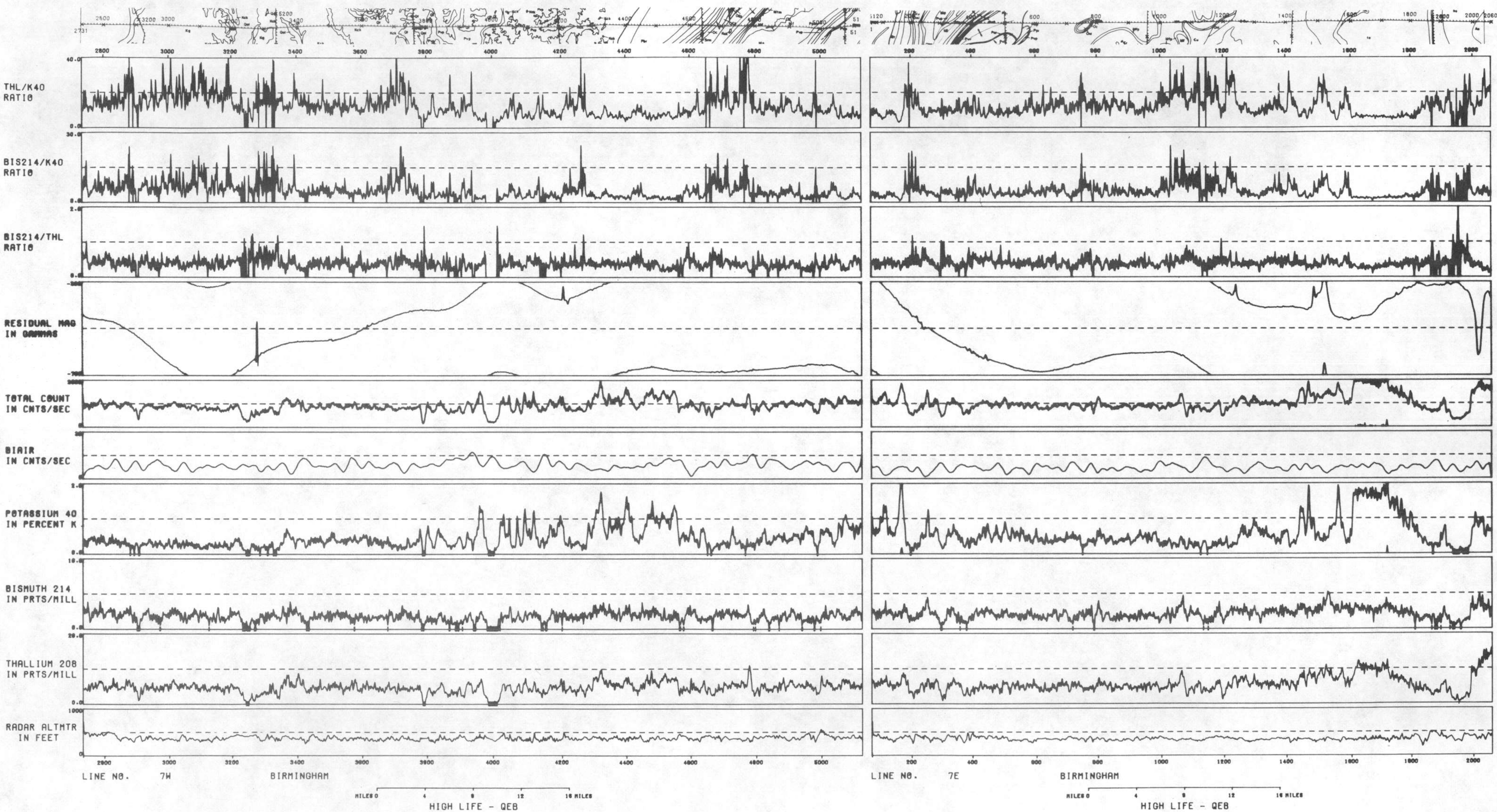

THL/K40 RATIO
BIS214/K40 RATIO
BIS214/THL RATIO
RESIDUAL MAG IN GAMMAS
TOTAL COUNT IN CNTS/SEC
BIAIR IN CNTS/SEC
POTASSIUM 40 IN PERCENT K
BISMUTH 214 IN PRTS/MILL
THALLIUM 208 IN PRTS/MILL
RADAR ALTMTR IN FEET
LINE NO. 3W BIRMINGHAM
LINE NO. 3C BIRMINGHAM
LINE NO. 3E BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB

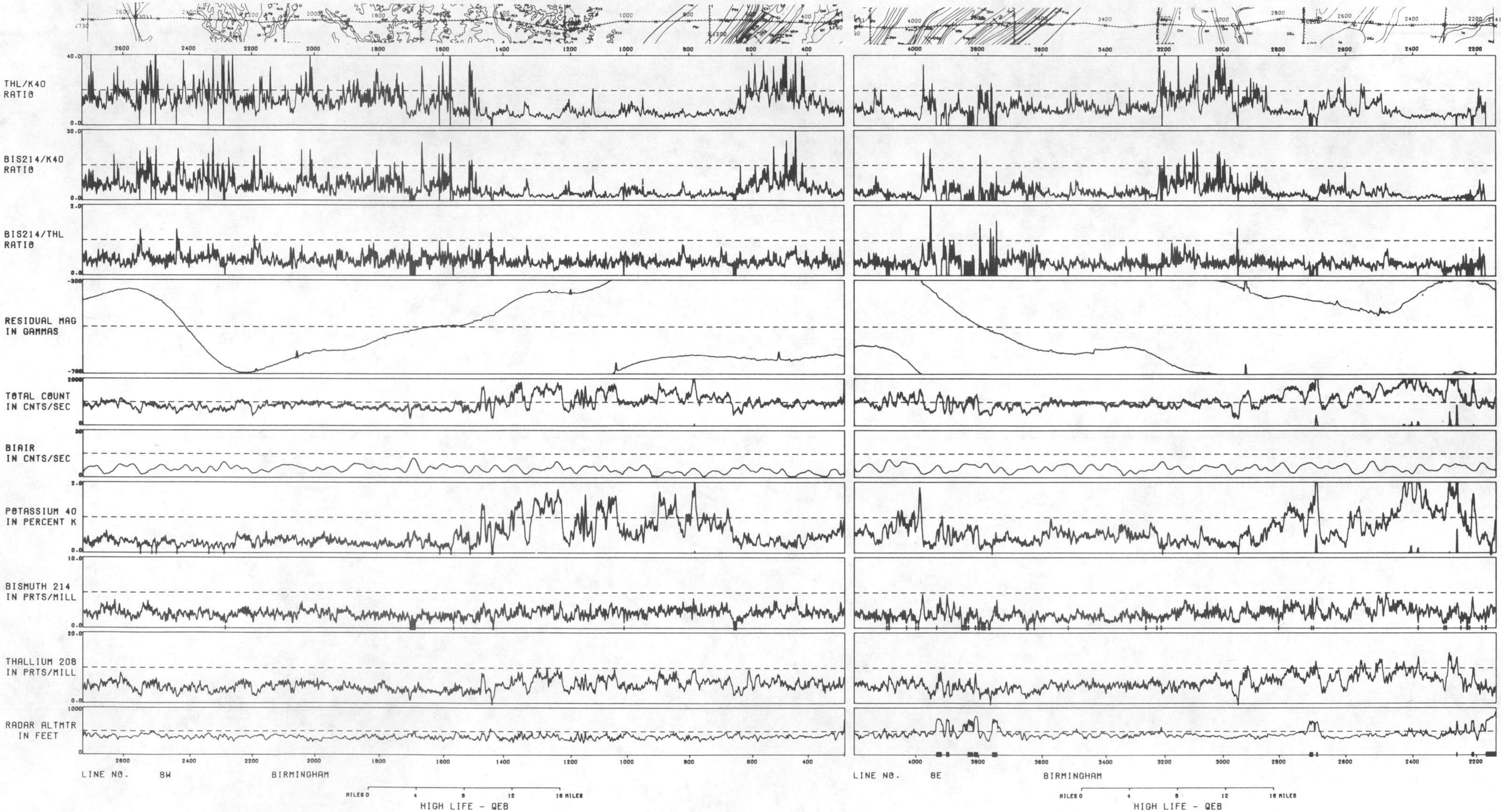

THL/K40 RATIO
BIS214/K40 RATIO
BIS214/THL RATIO
RESIDUAL MAG IN GAMMAS
TOTAL COUNT IN CNTS/SEC
BIAIR IN CNTS/SEC
POTASSIUM 40 IN PERCENT K
BISMUTH 214 IN PRTS/MILL
THALLIUM 208 IN PRTS/MILL
RADAR ALTMTR IN FEET
LINE NO. 4W
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. 4E
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB



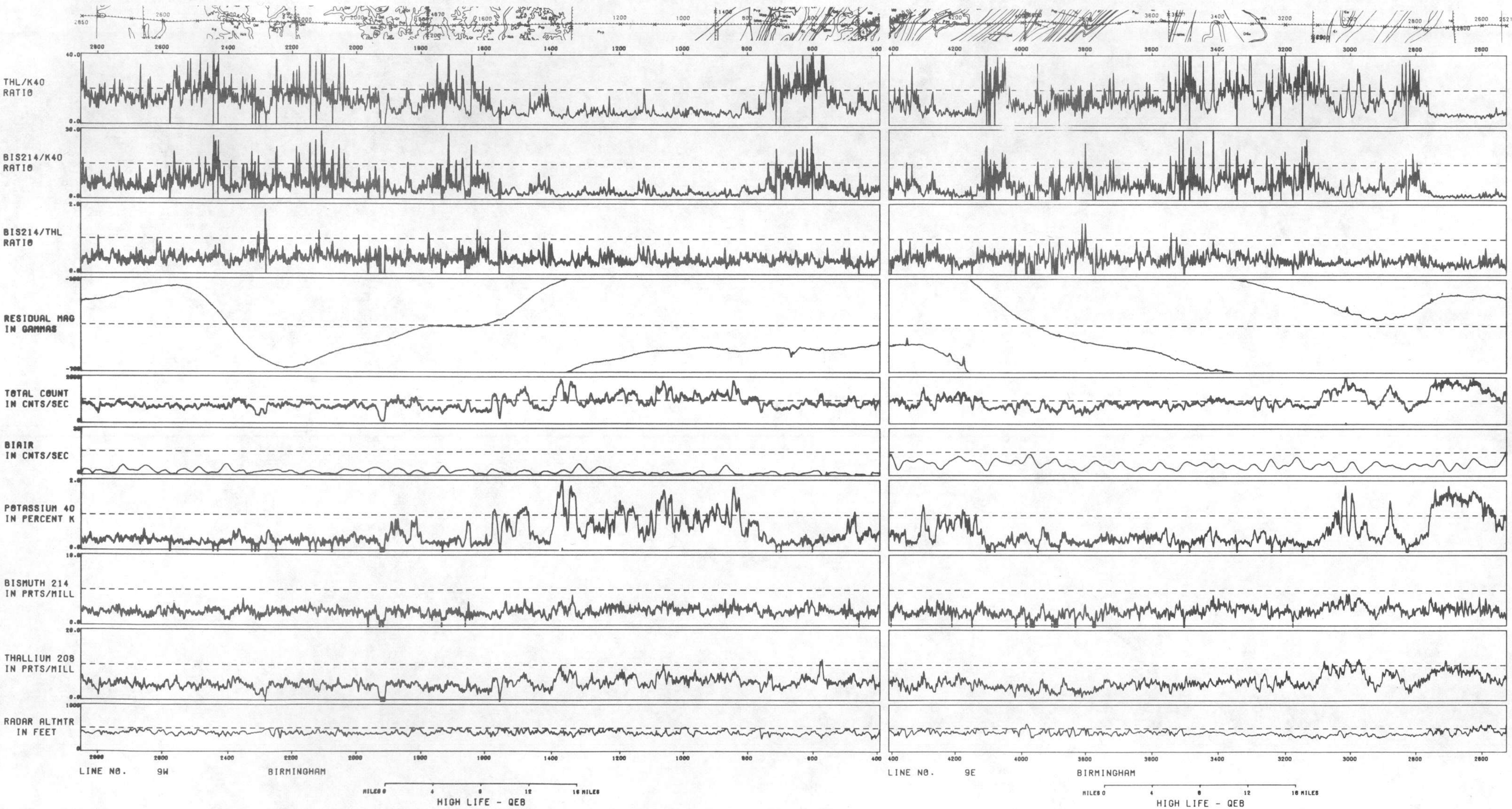
THL/K40
S214/K40
BIS214/THL
RATIO
GAMMAS
TOTAL COUNT
CNTS/SEC
BIAIR
CNTS/SEC
PERCENT K
PRTS/MILL
THALLIUM 208
PRTS/MILL
IN FEET
LINE NO. SW
BIRMINGHAM
HIGH LIFE - QEB
LINE NO. SE
BIRMINGHAM
HIGH LIFE - QEB
LINE NO. SE

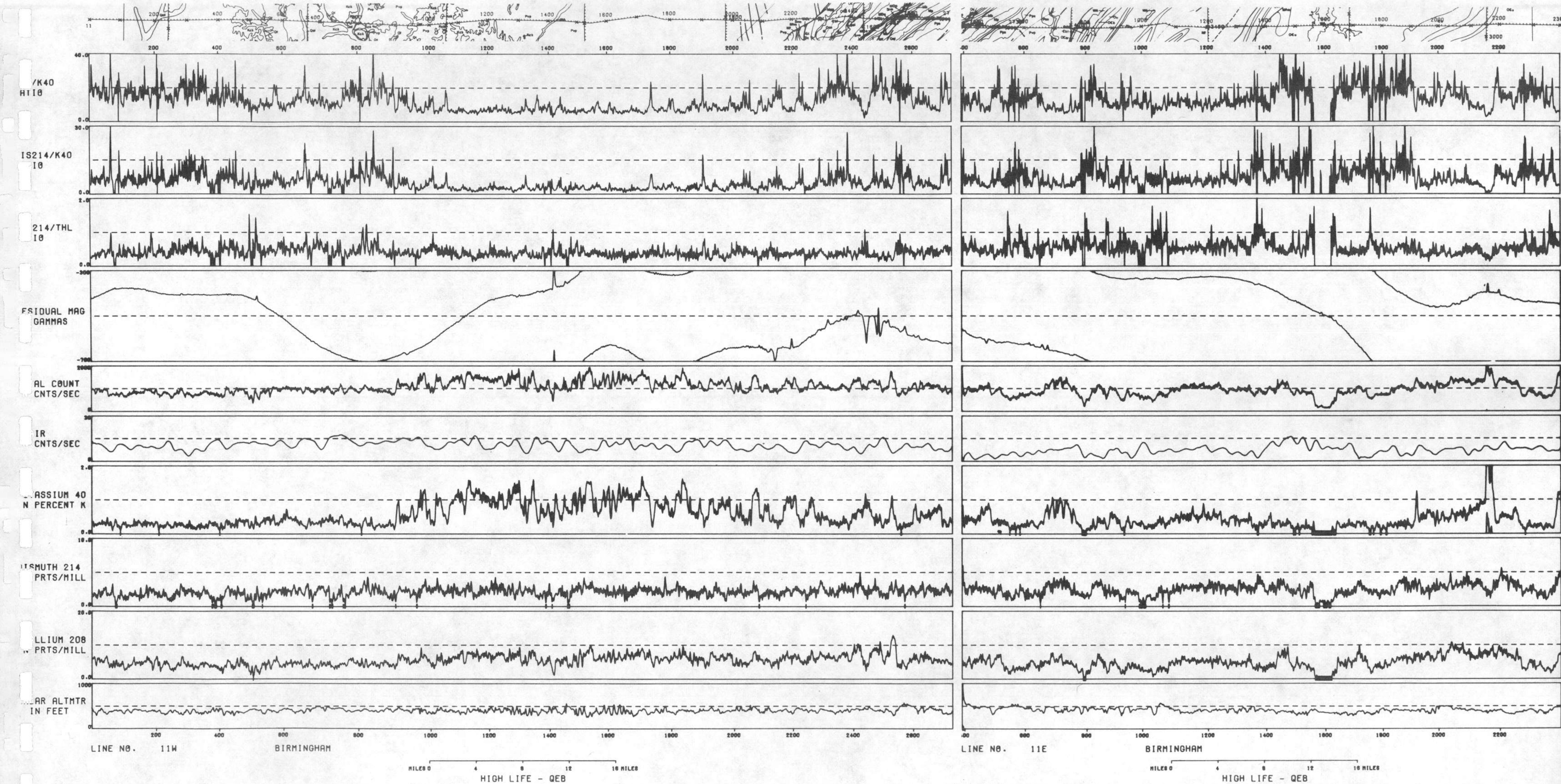

THL/K40
RATIO
BIS214/K40
RATIO
BIS214/THL
RATIO
RESIDUAL MAG
IN GAMMAS
TOTAL COUNT
IN CNTS/SEC
BIAIR
IN CNTS/SEC
POTASSIUM 40
IN PERCENT K
BISMUTH 214
IN PRTS/MILL
THALLIUM 208
IN PRTS/MILL
RADAR ALTMTR
IN FEET
LINE NO. 6W BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. 6E BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB

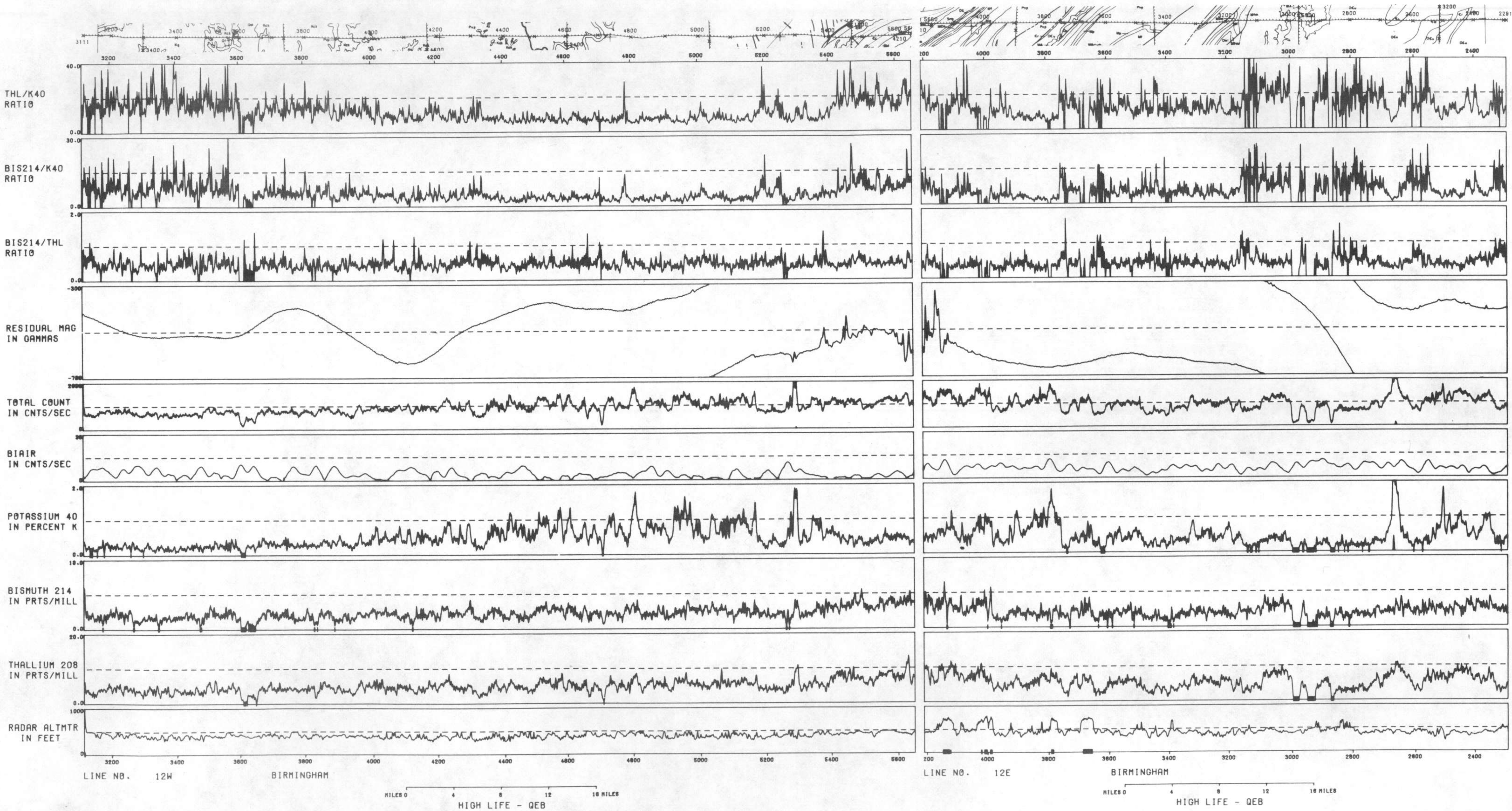

THL/K40 RATIO
BIS214/K40 RATIO
BIS214/THL RATIO
RESIDUAL MAG IN GAMMAS
TOTAL COUNT IN CNTS/SEC
BIAIR IN CNTS/SEC
POTASSIUM 40 IN PERCENT K
BISMUTH 214 IN PRTS/MILL
THALLIUM 208 IN PRTS/MILL
RADAR ALTMTR IN FEET
LINE NO. 7W
BIRMINGHAM
HIGH LIFE - QEB
LINE NO. 7E
BIRMINGHAM
HIGH LIFE - QEB

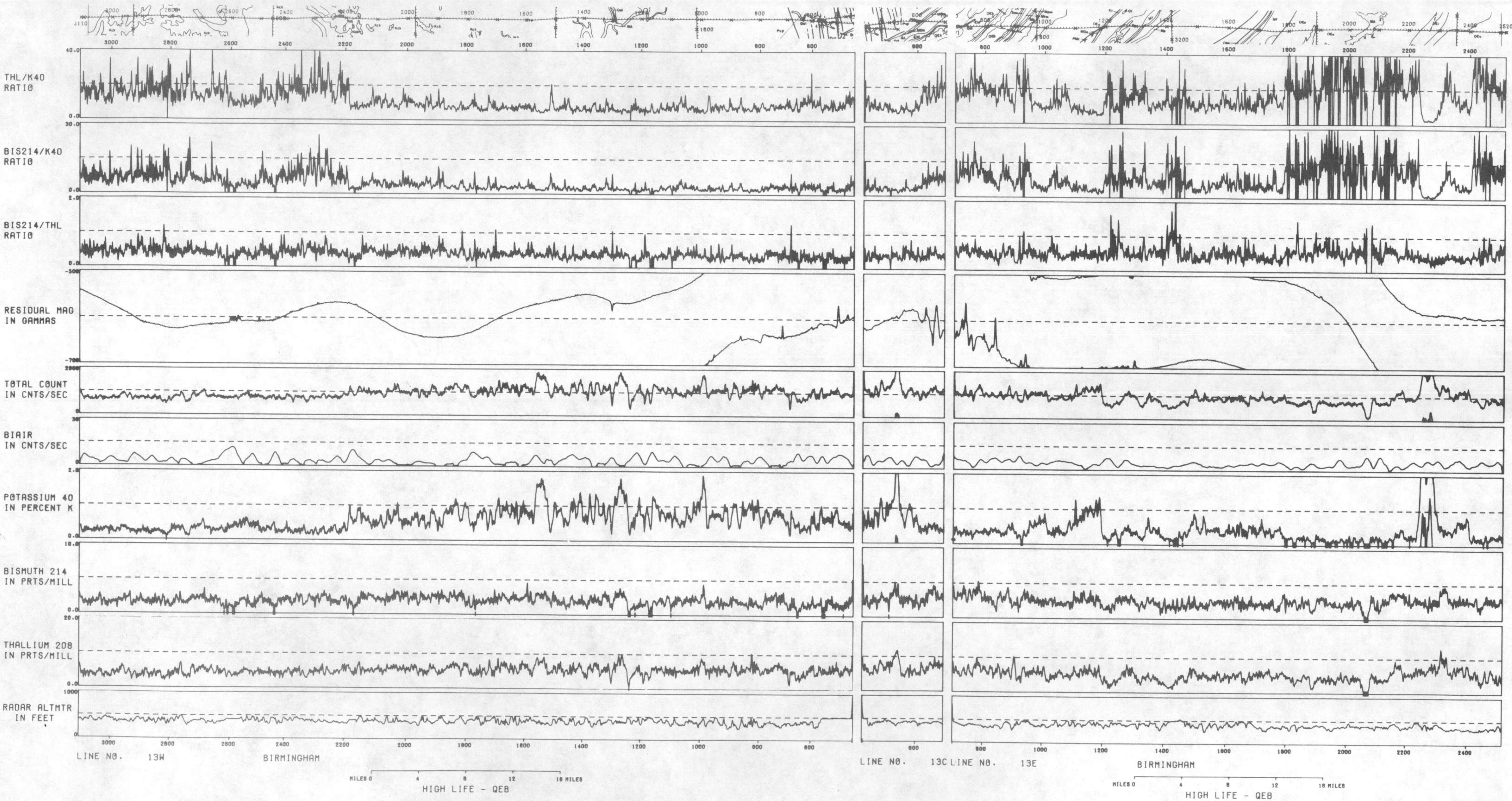


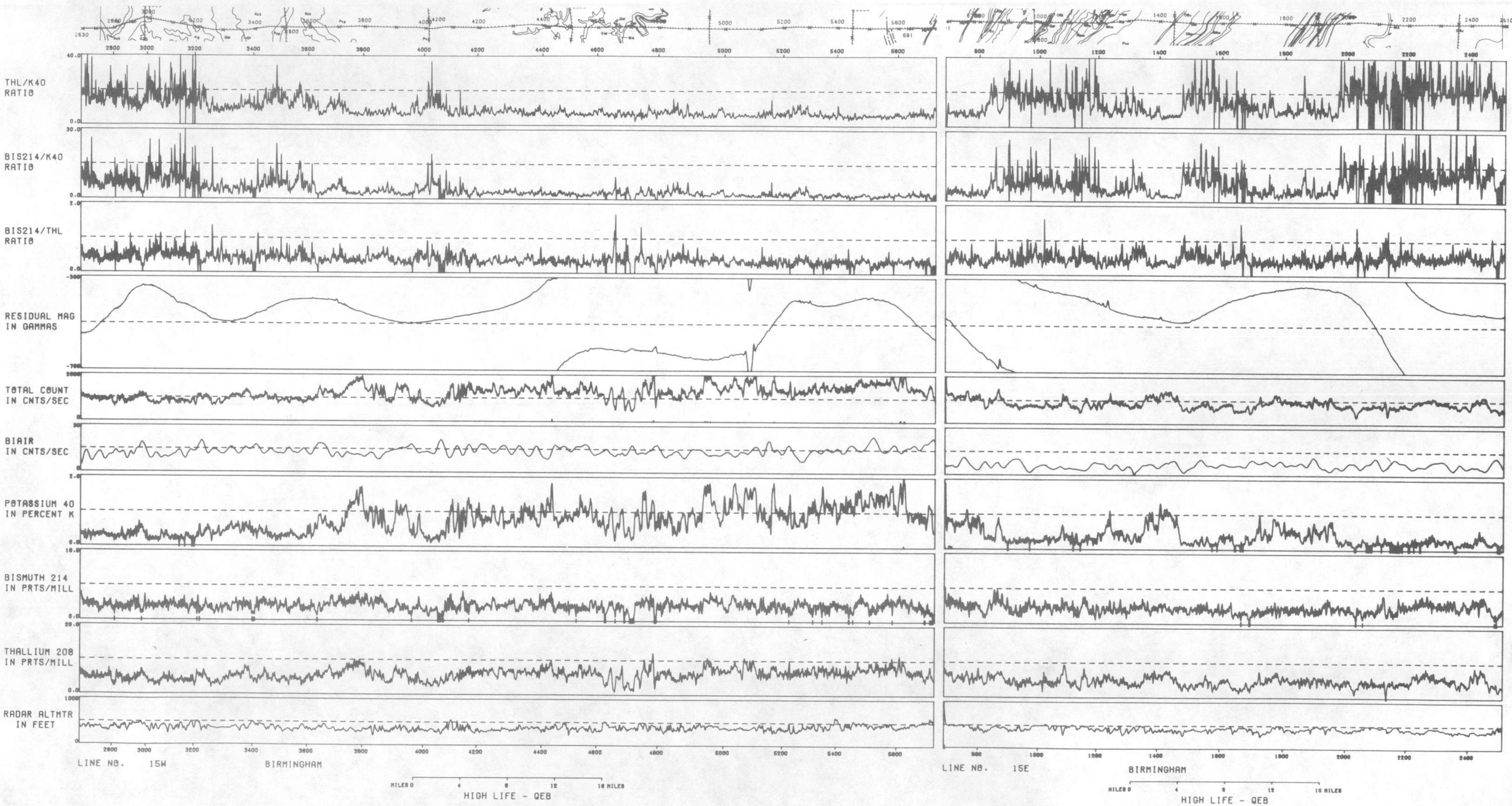
THL/K40 RATIO
BIS214/K40 RATIO
BIS214/THL RATIO
RESIDUAL MAG IN GAMMAS
TOTAL COUNT IN CNTS/SEC
BIAIR IN CNTS/SEC
POTASSIUM 40 IN PERCENT K
BISMUTH 214 IN PRTS/MILL
THALLIUM 208 IN PRTS/MILL
RADAR ALTMTR IN FEET
LINE NO. 8W BIRMINGHAM
LINE NO. 8E BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB

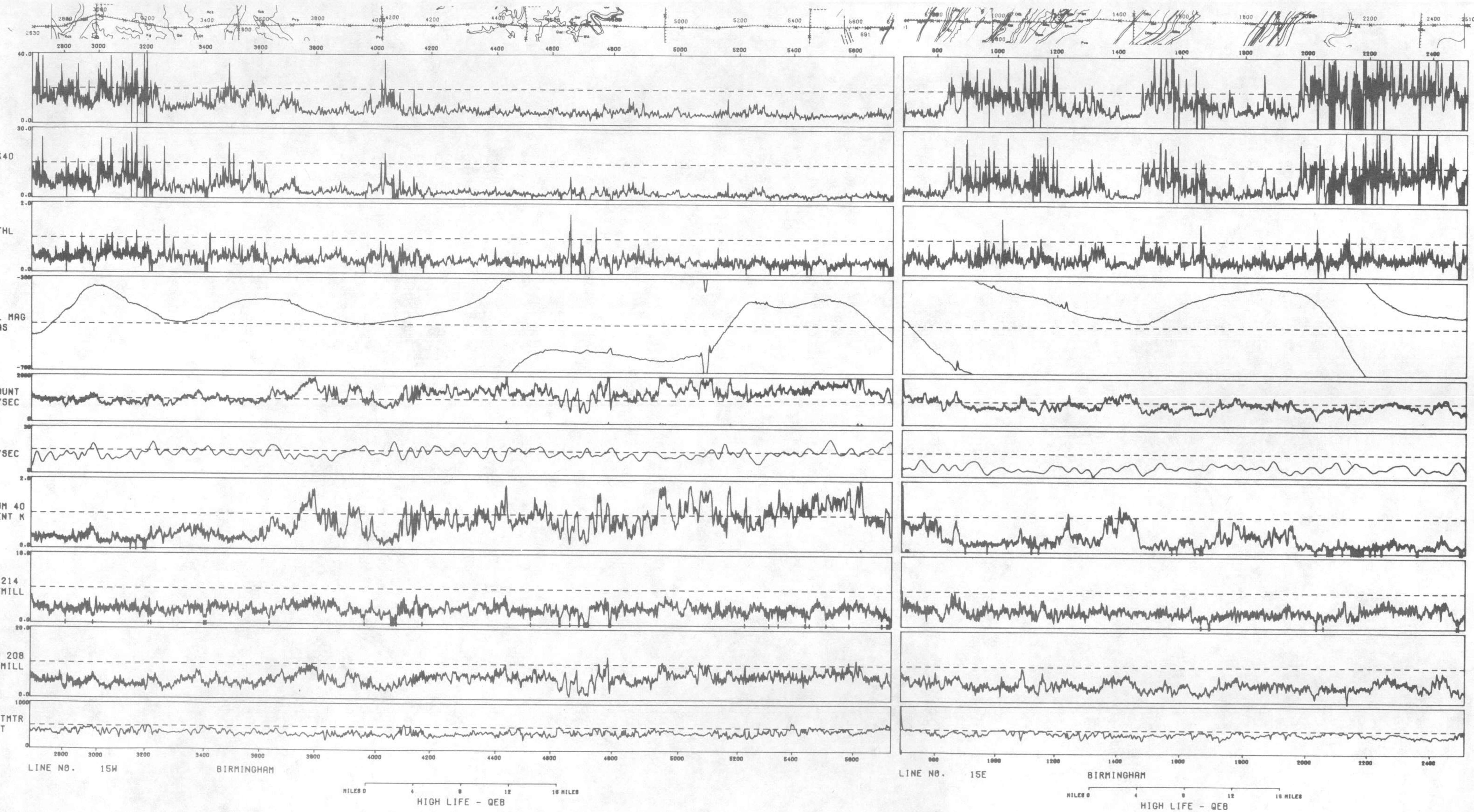

THL/K40 RATIO
BIS214/K40 RATIO
BIS214/THL RATIO
RESIDUAL MAG IN GAMMAS
TOTAL COUNT IN CNTS/SEC
BIAIR IN CNTS/SEC
POTASSIUM 40 IN PERCENT K
BISMUTH 214 IN PRTS/MILL
THALLIUM 208 IN PRTS/MILL
RADAR ALTMTR IN FEET
LINE NO. 9W
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. 9E
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB

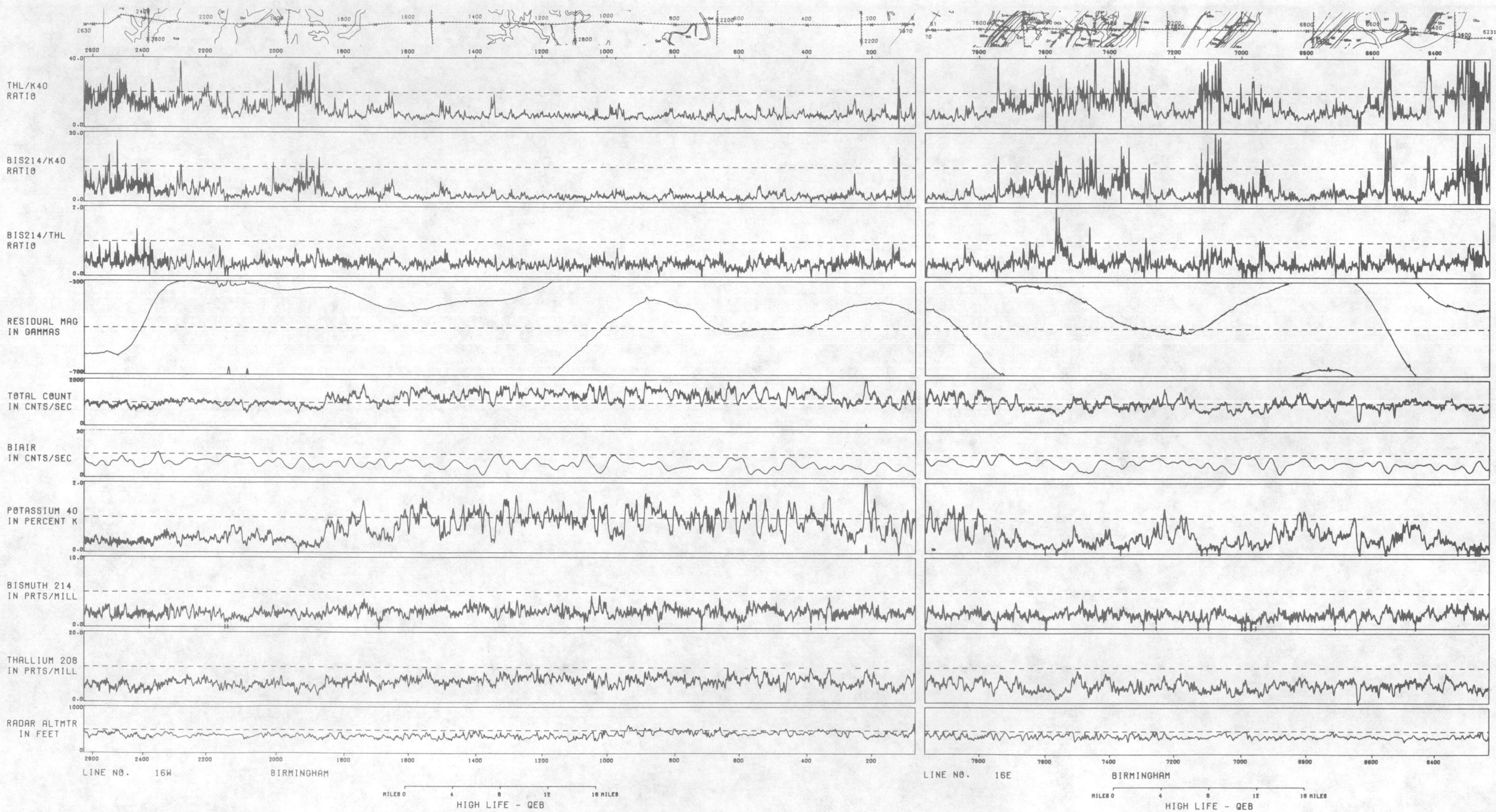

/K40
HII0
IS214/K40
I0
214/THL
I0
ESIDUAL MAG
GAMMAS
AL COUNT
CNTS/SEC
IR
CNTS/SEC
ASSIUM 40
N PERCENT K
ISMUTH 214
PRTS/MILL
LLIUM 208
PRTS/MILL
AR ALTMTR
IN FEET
LINE NO. 11W
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. 11E
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB

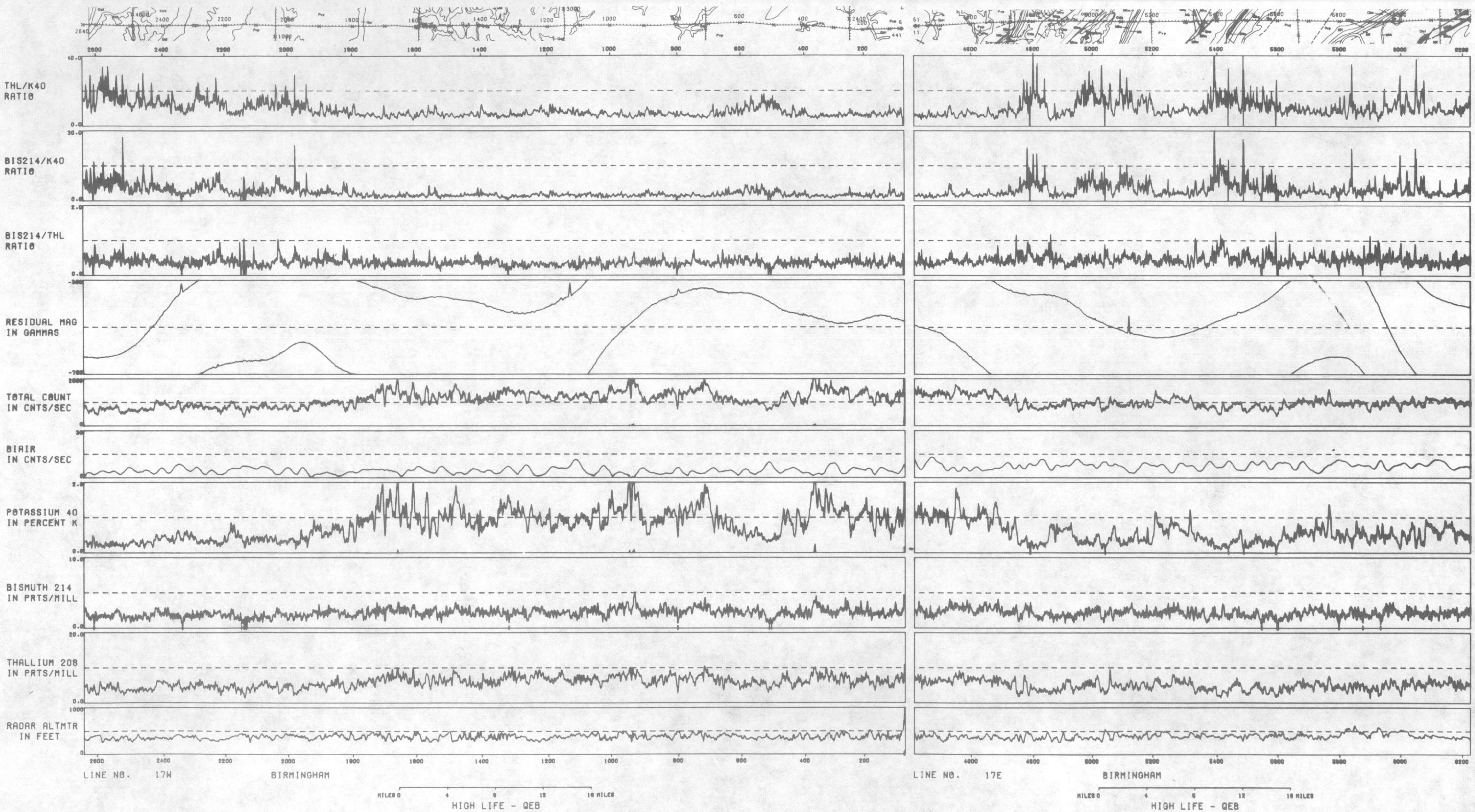

THL/K40 RATIO
BIS214/K40 RATIO
BIS214/THL RATIO
RESIDUAL MAG IN GAMMAS
TOTAL COUNT IN CNTS/SEC
BIAIR IN CNTS/SEC
POTASSIUM 40 IN PERCENT K
BISMUTH 214 IN PRTS/MILL
THALLIUM 208 IN PRTS/MILL
RADAR ALTMTR IN FEET
LINE NO. 12W
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. 12E
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB


THL/K40 RATIO
BIS214/K40 RATIO
BIS214/THL RATIO
RESIDUAL MAG IN GAMMAS
TOTAL COUNT IN CNTS/SEC
BIAIR IN CNTS/SEC
POTASSIUM 40 IN PERCENT K
BISMUTH 214 IN PRTS/MILL
THALLIUM 208 IN PRTS/MILL
RADAR ALTMTR IN FEET
LINE NO. 13W
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. 13C
LINE NO. 13E
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB

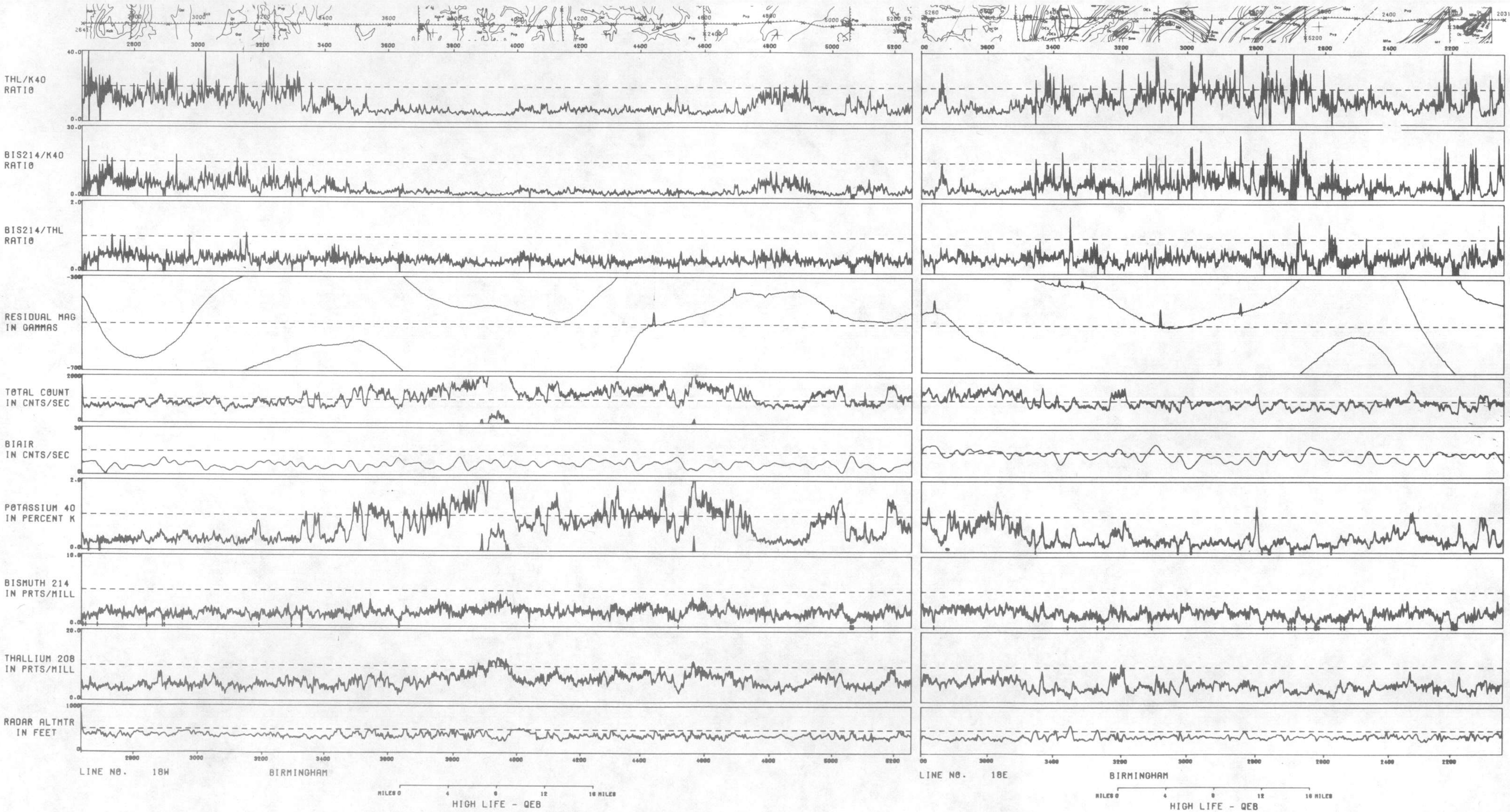

THL/K40 RATIO
BIS214/K40 RATIO
BIS214/THL RATIO
RESIDUAL MAG IN GAMMAS
TOTAL COUNT IN CNTS/SEC
BIAIR IN CNTS/SEC
POTASSIUM 40 IN PERCENT K
BISMUTH 214 IN PRTS/MILL
THALLIUM 208 IN PRTS/MILL
RADAR ALTMTR IN FEET
LINE NO. 15W
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. 15E
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB

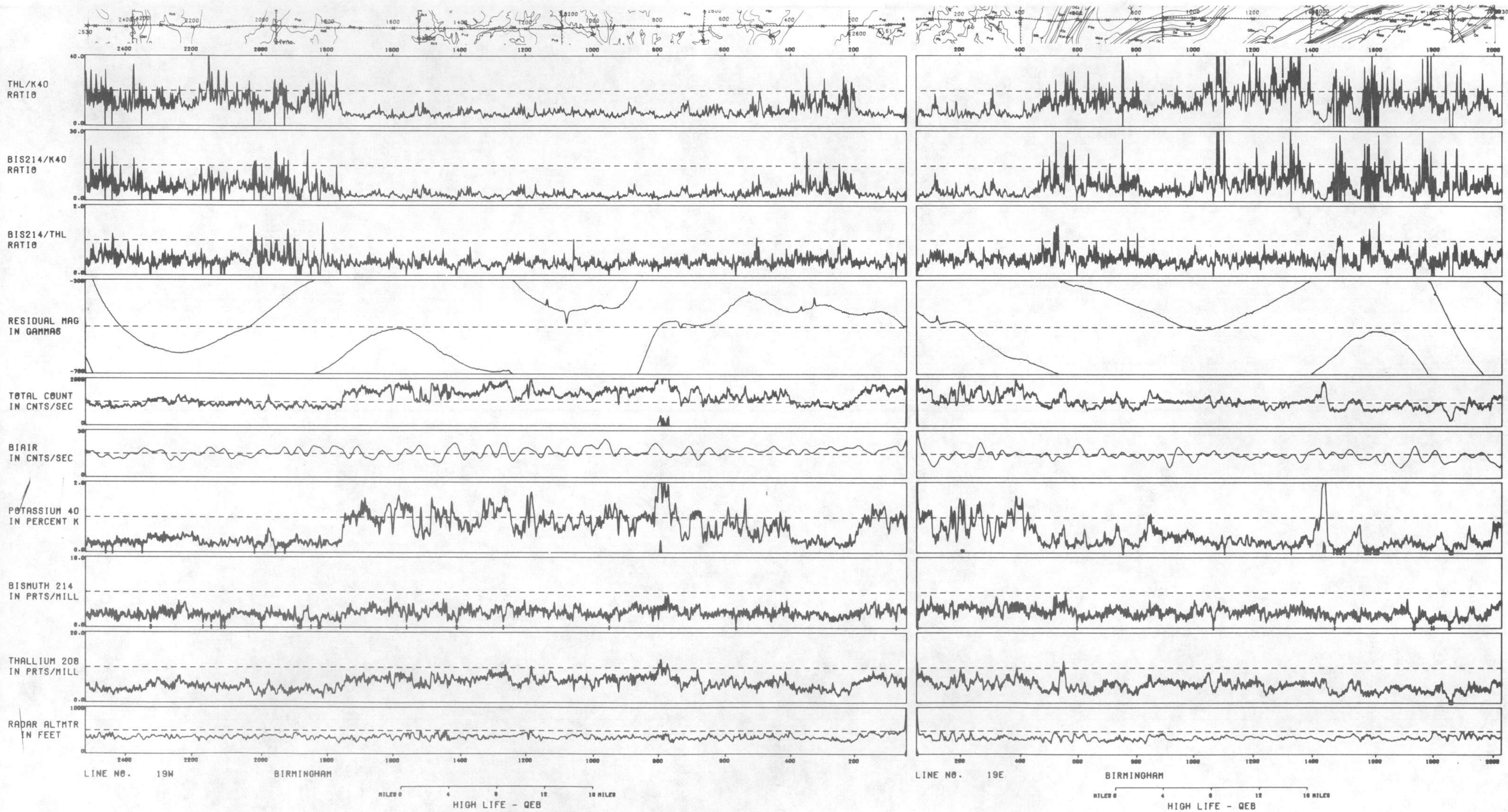

THL/K40 RATIO
BIS214/K40 RATIO
BIS214/THL RATIO
RESIDUAL MAG IN GAMMAS
TOTAL COUNT IN CNTS/SEC
BIAIR IN CNTS/SEC
POTASSIUM 40 IN PERCENT K
BISMUTH 214 IN PRTS/MILL
THALLIUM 208 IN PRTS/MILL
RADAR ALTMTR IN FEET
LINE NO. 15W
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. 15E
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB

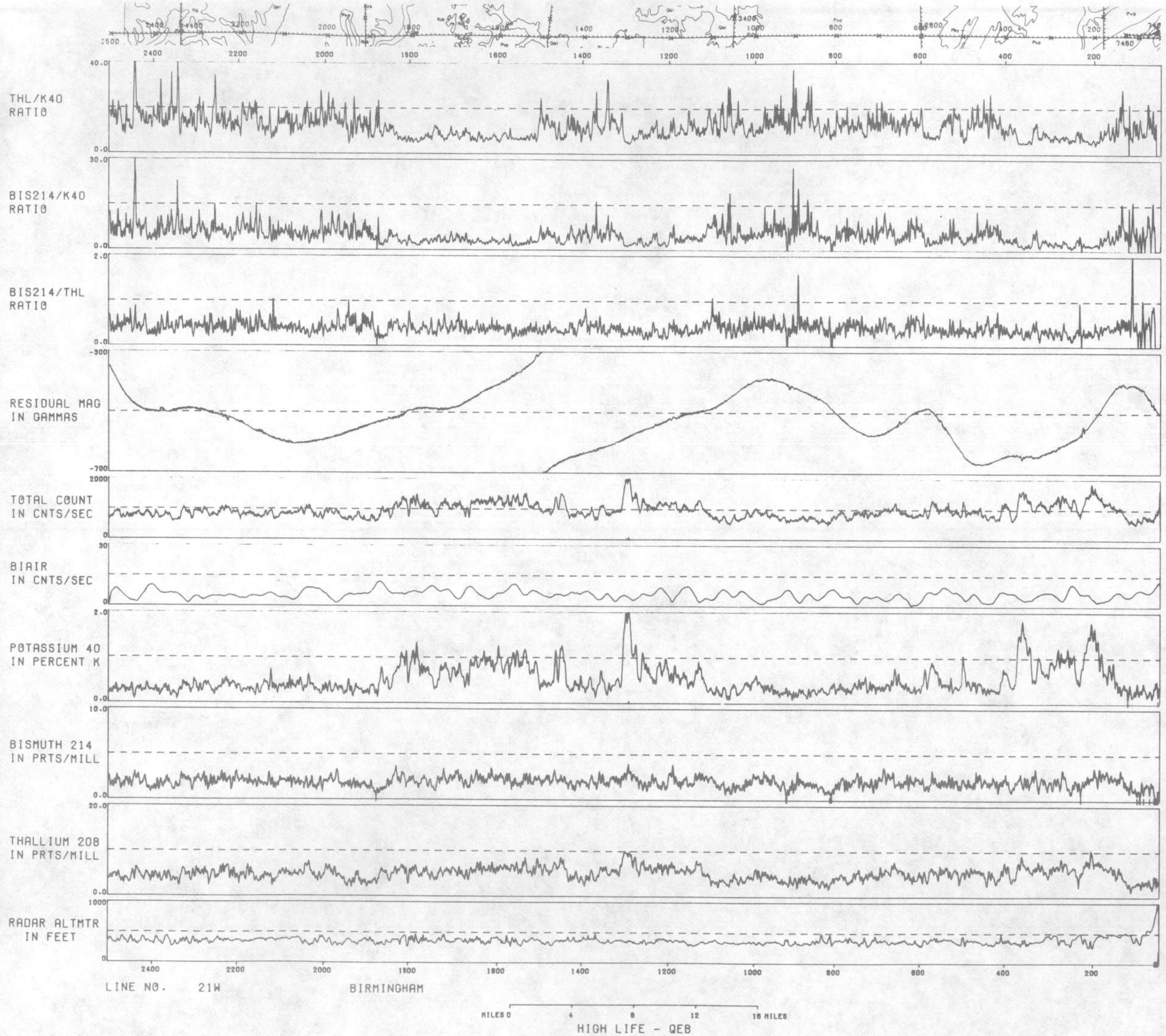

THL/K40
RATIO
BIS214/K40
RATIO
BIS214/THL
RATIO
RESIDUAL MAG
IN GAMMAS
TOTAL COUNT
IN CNTS/SEC
BIAIR
IN CNTS/SEC
POTASSIUM 40
IN PERCENT K
BISMUTH 214
IN PRTS/MILL
THALLIUM 208
IN PRTS/MILL
RADAR ALTMTR
IN FEET
LINE NO. 16W
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. 16E
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB

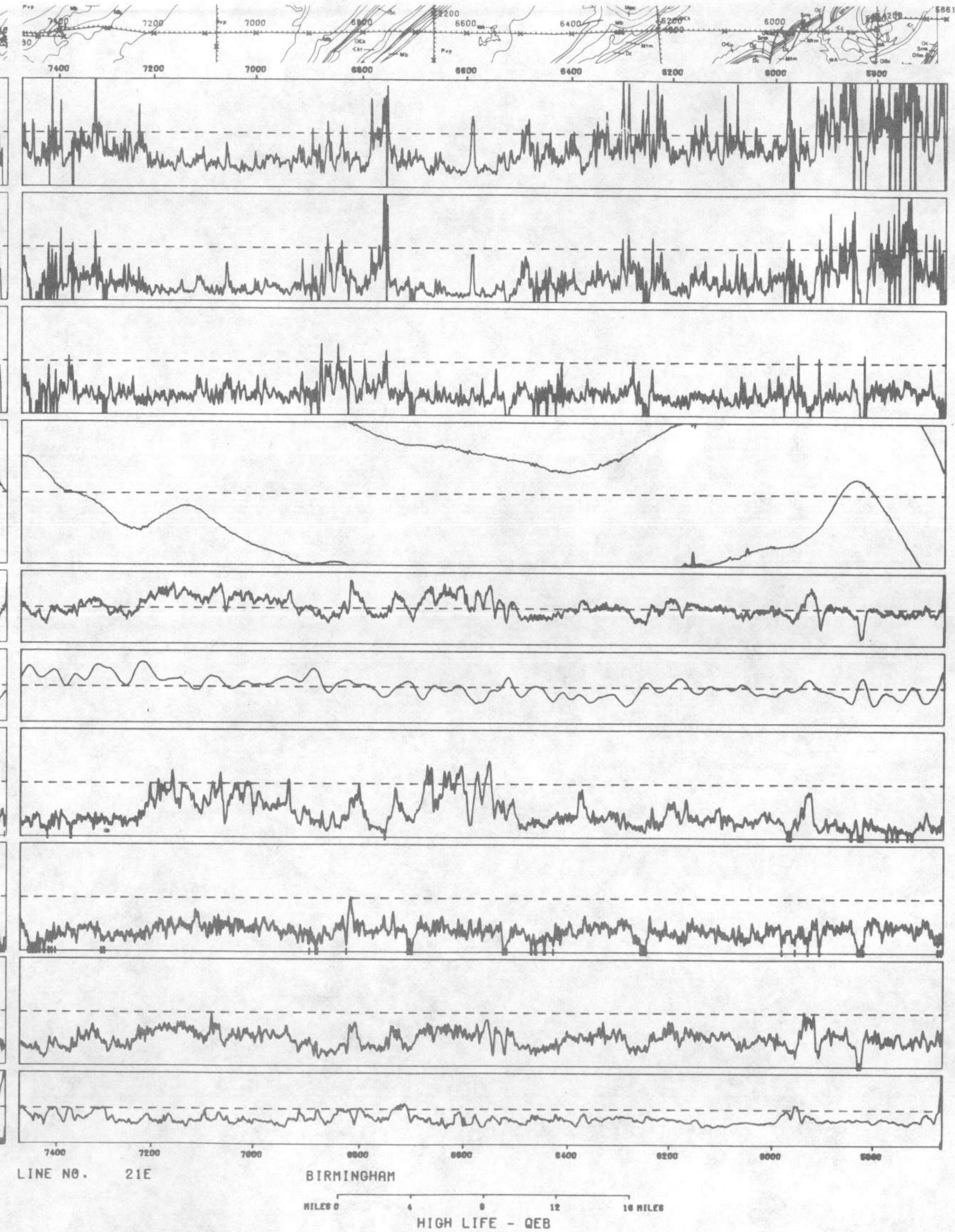


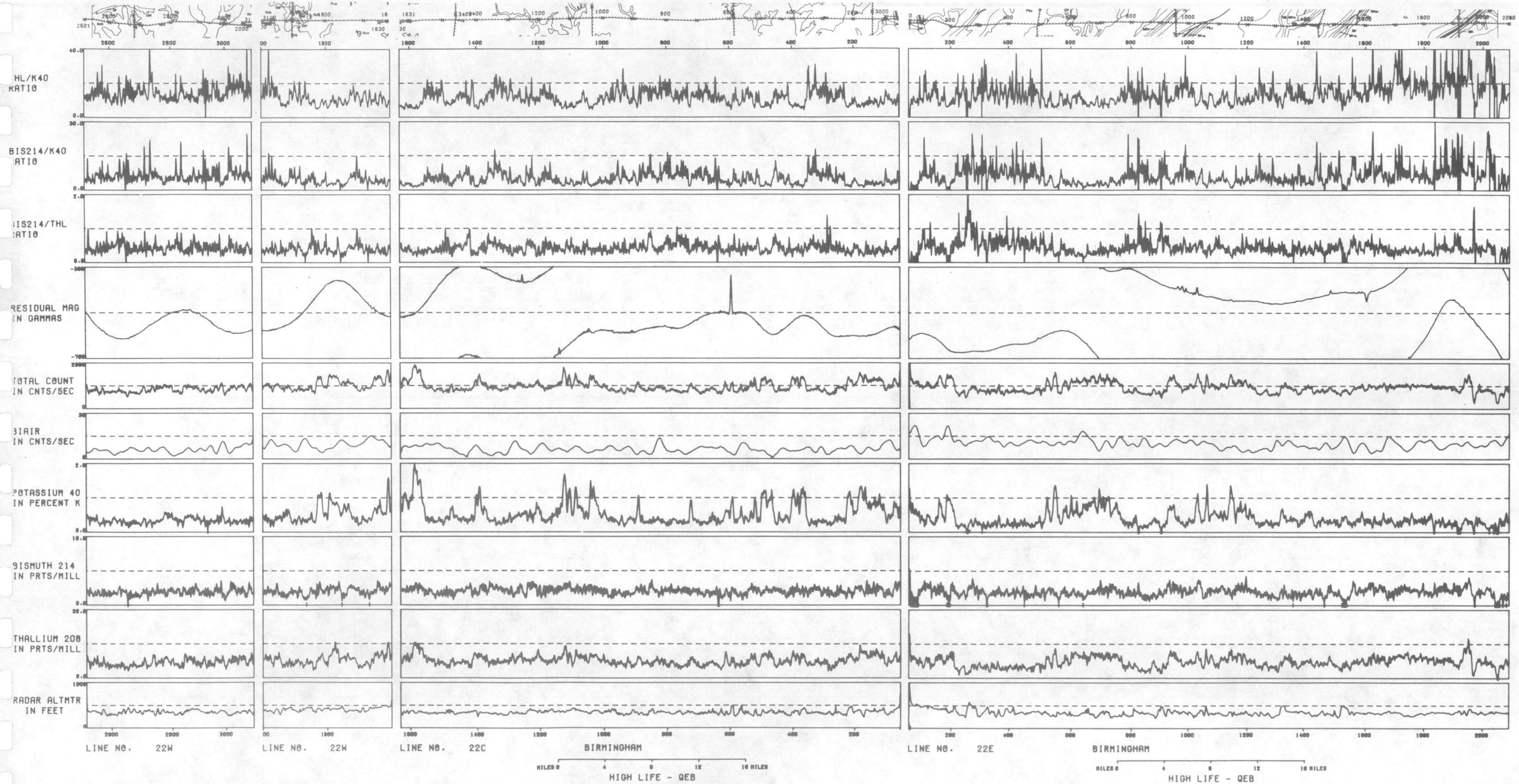
THL/K40 RATIO
BIS214/K40 RATIO
BIS214/THL RATIO
RESIDUAL MAG IN GAMMAS
TOTAL COUNT IN CNTS/SEC
BIAIR IN CNTS/SEC
POTASSIUM 40 IN PERCENT K
BISMUTH 214 IN PRTS/MILL
THALLIUM 208 IN PRTS/MILL
RADAR ALTMTR IN FEET
LINE NO. 17W
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. 17E
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB


THL/K40
RATIO
BIS214/K40
RATIO
BIS214/THL
RATIO
RESIDUAL MAG
IN GAMMAS
TOTAL COUNT
IN CNTS/SEC
BIAIR
IN CNTS/SEC
POTASSIUM 40
IN PERCENT K
BISMUTH 214
IN PRTS/MILL
THALLIUM 208
IN PRTS/MILL
RADAR ALTMTR
IN FEET
LINE NO. 18W
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. 18E
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB

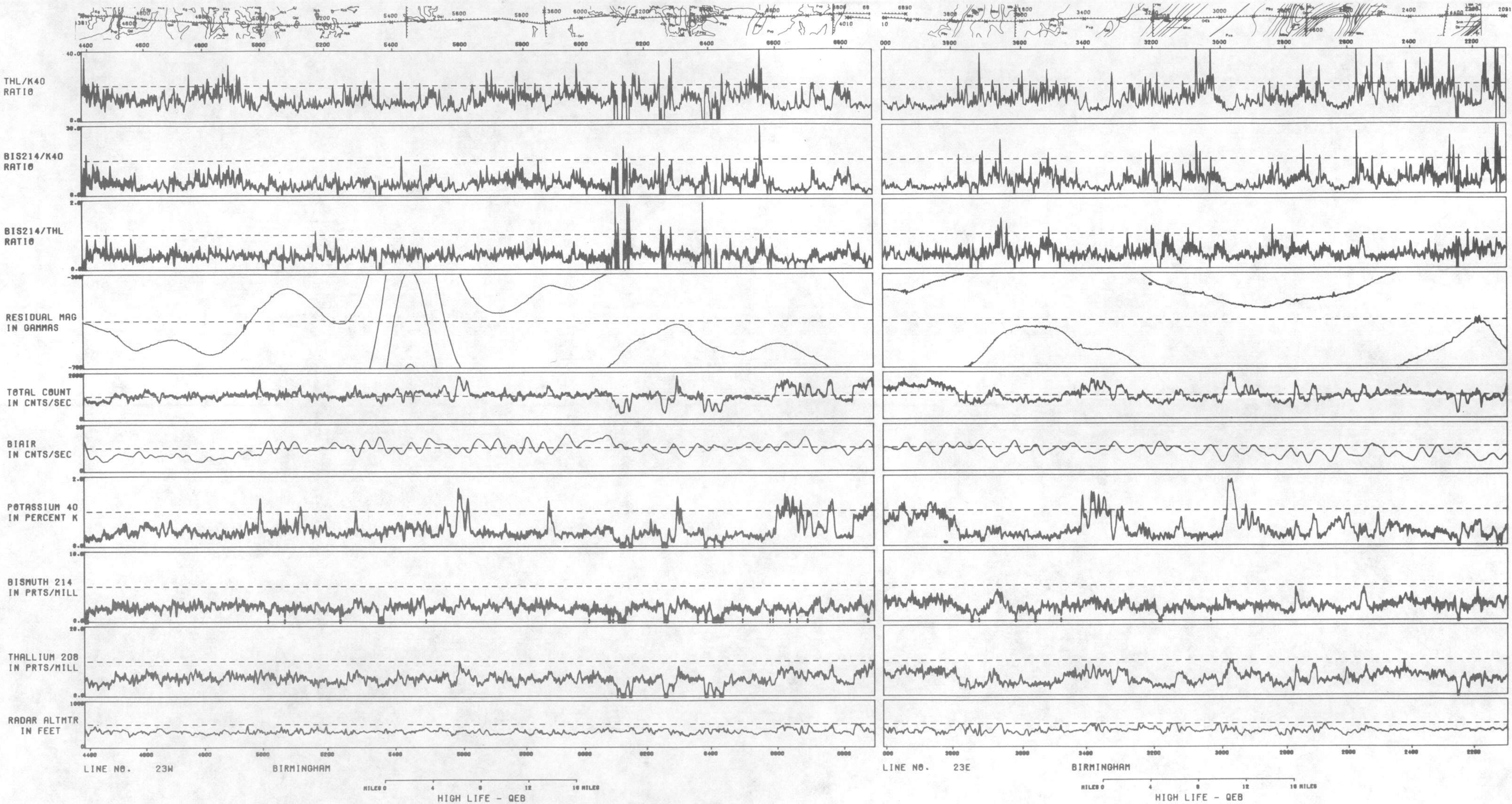

THL/K40 RATIO
BIS214/K40 RATIO
BIS214/THL RATIO
RESIDUAL MAG IN GAMMAS
TOTAL COUNT IN CNTS/SEC
BIAIR IN CNTS/SEC
POTASSIUM 40 IN PERCENT K
BISMUTH 214 IN PRTS/MILL
THALLIUM 208 IN PRTS/MILL
RADAR ALTMTR IN FEET
LINE NO. 19W BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. 19E BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB


THL/K40 RATIO
BIS214/K40 RATIO
BIS214/THL RATIO
RESIDUAL MAG IN GAMMAS
TOTAL COUNT IN CNTS/SEC
BIAIR IN CNTS/SEC
POTASSIUM 40 IN PERCENT K
BISMUTH 214 IN PRTS/MILL
THALLIUM 208 IN PRTS/MILL
RADAR ALTMTR IN FEET
LINE NO. 21W
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB

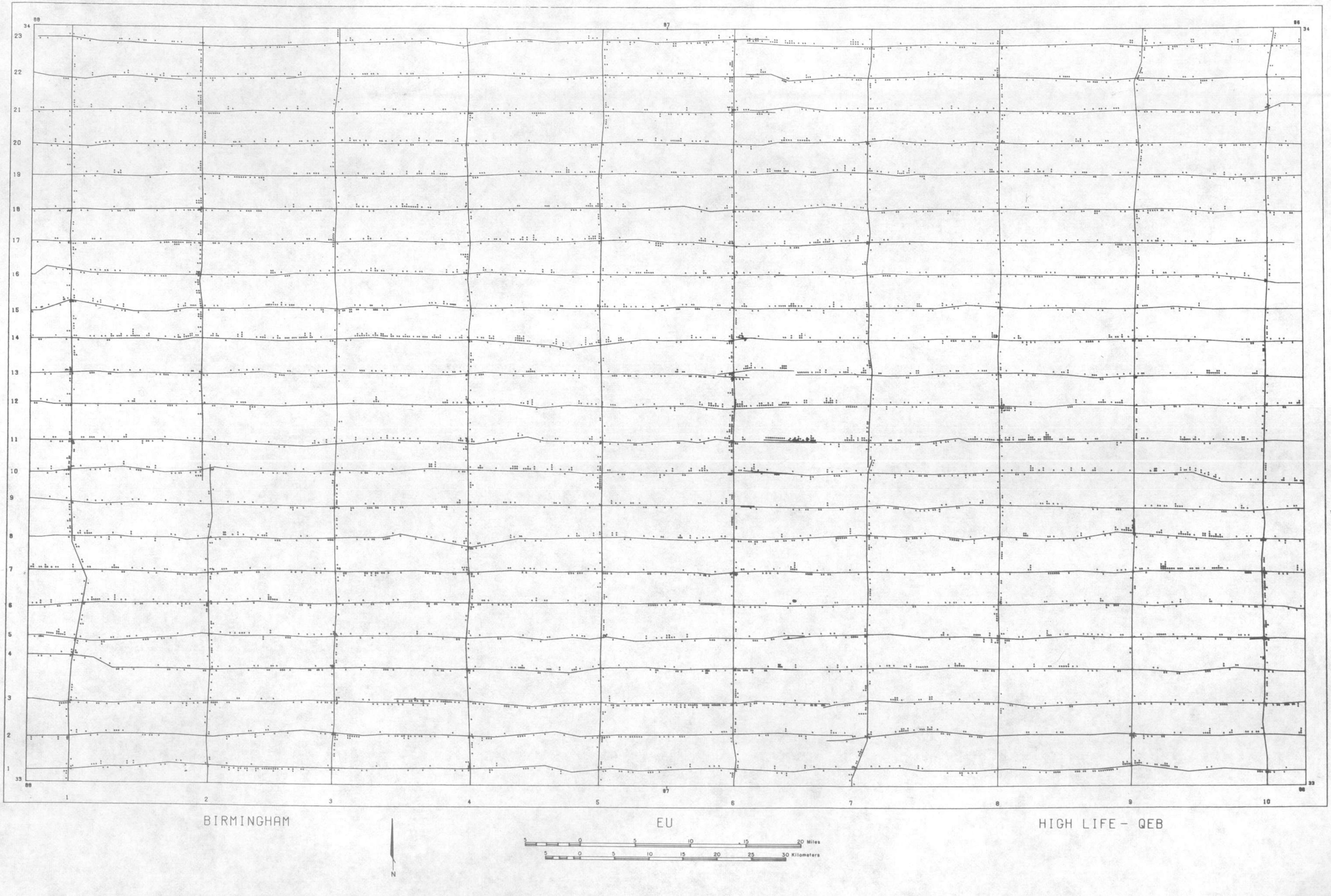

LINE NO. 21E
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB

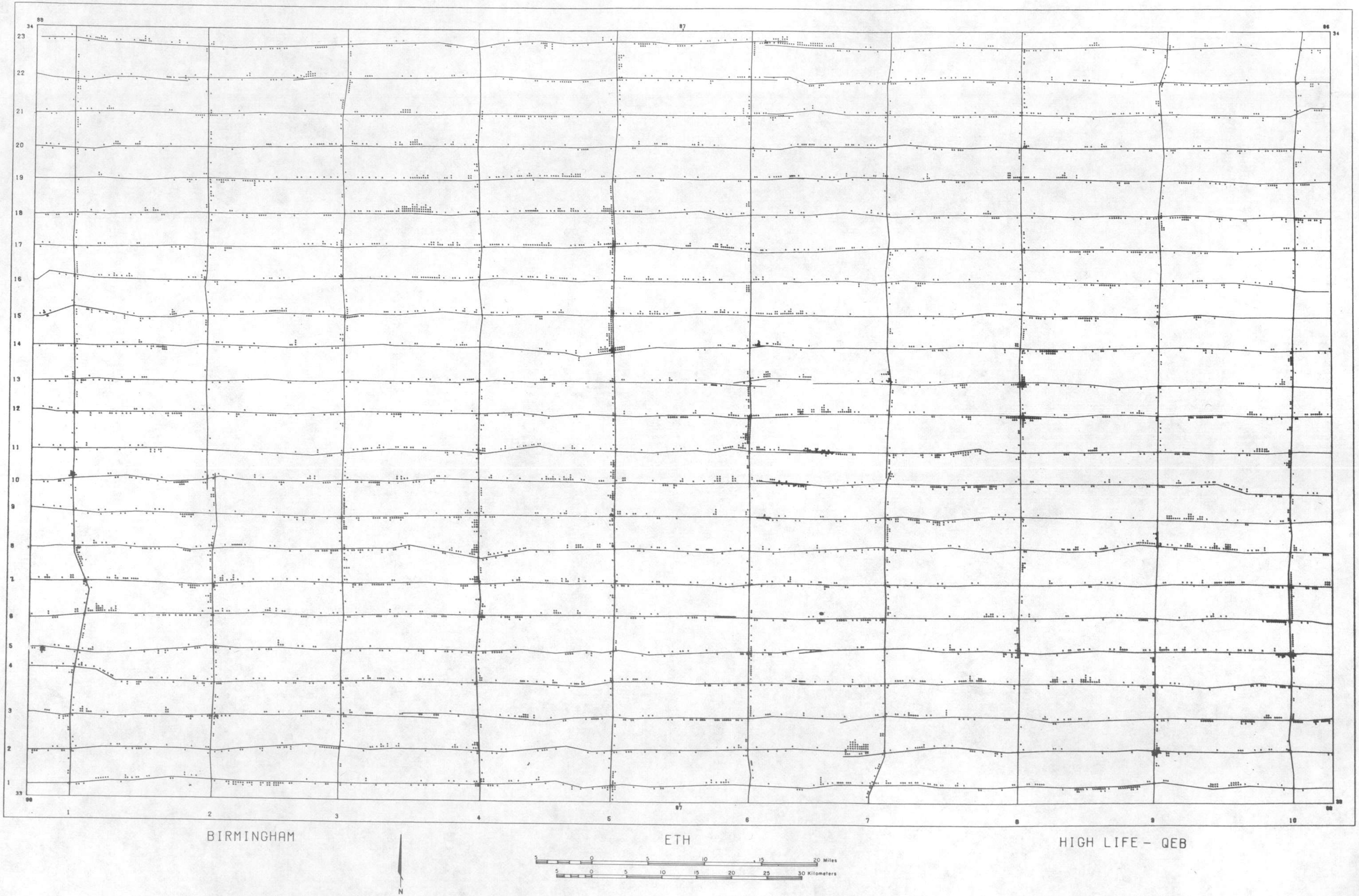


BIS214/K40
RESIDUAL MAG
IN GAMMAS
IN CNTS/SEC
BIAIR
IN CNTS/SEC
IN PERCENT K
BISMUTH 214
IN PRTS/MILL
THALLIUM 208
IN PRTS/MILL
RADAR ALTMTR
IN FEET
LINE NO. 22W
LINE NO. 22W
LINE NO. 22C
BIRMINGHAM
HIGH LIFE - QEB
LINE NO. 22E
BIRMINGHAM
HIGH LIFE - QEB

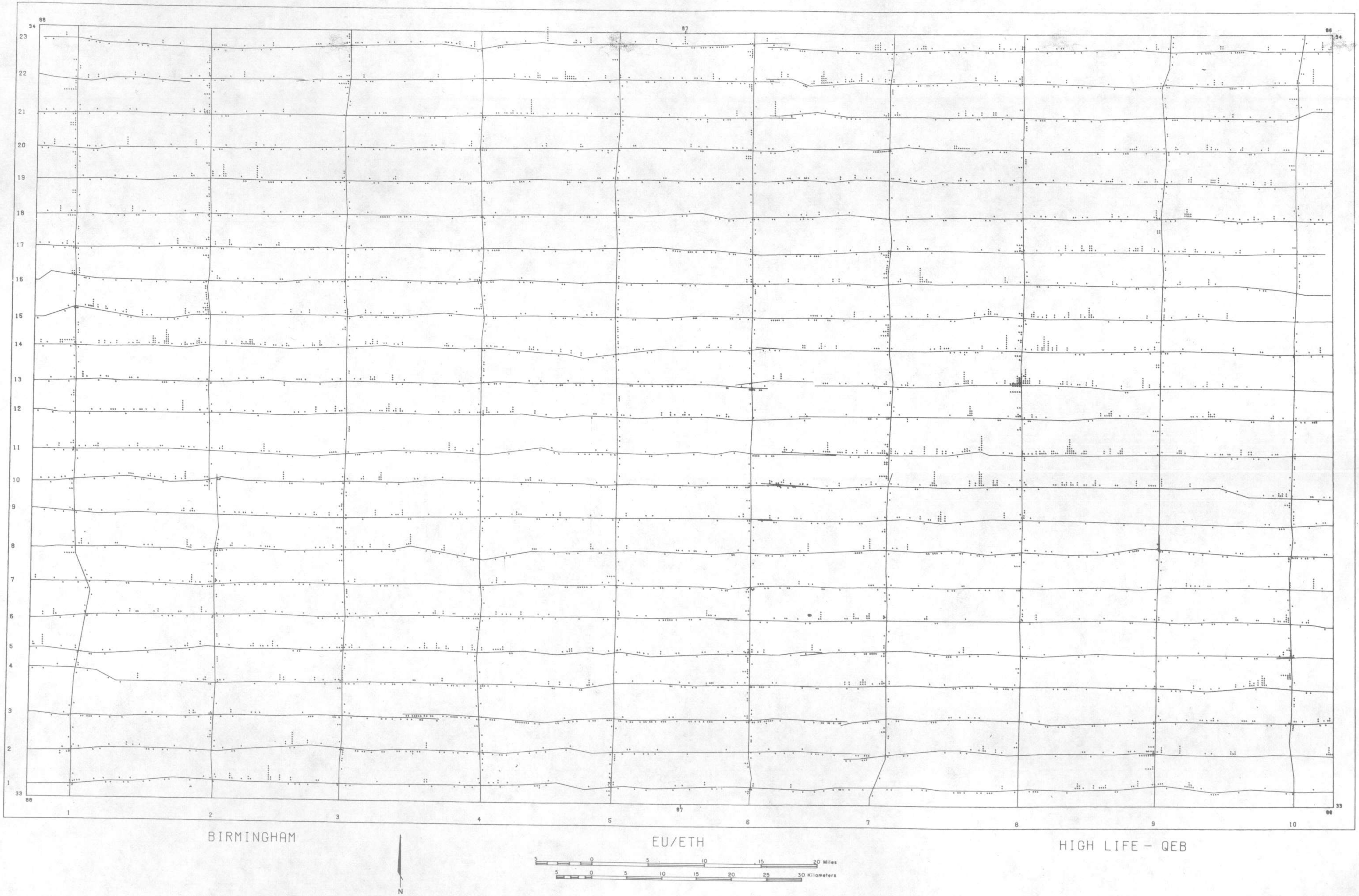

THL/K40
RATIO
BIS214/K40
RATIO
BIS214/THL
RATIO
RESIDUAL MAG
IN GAMMAS
TOTAL COUNT
IN CNTS/SEC
BIAIR
IN CNTS/SEC
POTASSIUM 40
IN PERCENT K
BISMUTH 214
IN PRTS/MILL
THALLIUM 208
IN PRTS/MILL
RADAR ALTMTR
IN FEET
LINE NO. 23W
BIRMINGHAM
HIGH LIFE - QEB
LINE NO. 23E
BIRMINGHAM
HIGH LIFE - QEB

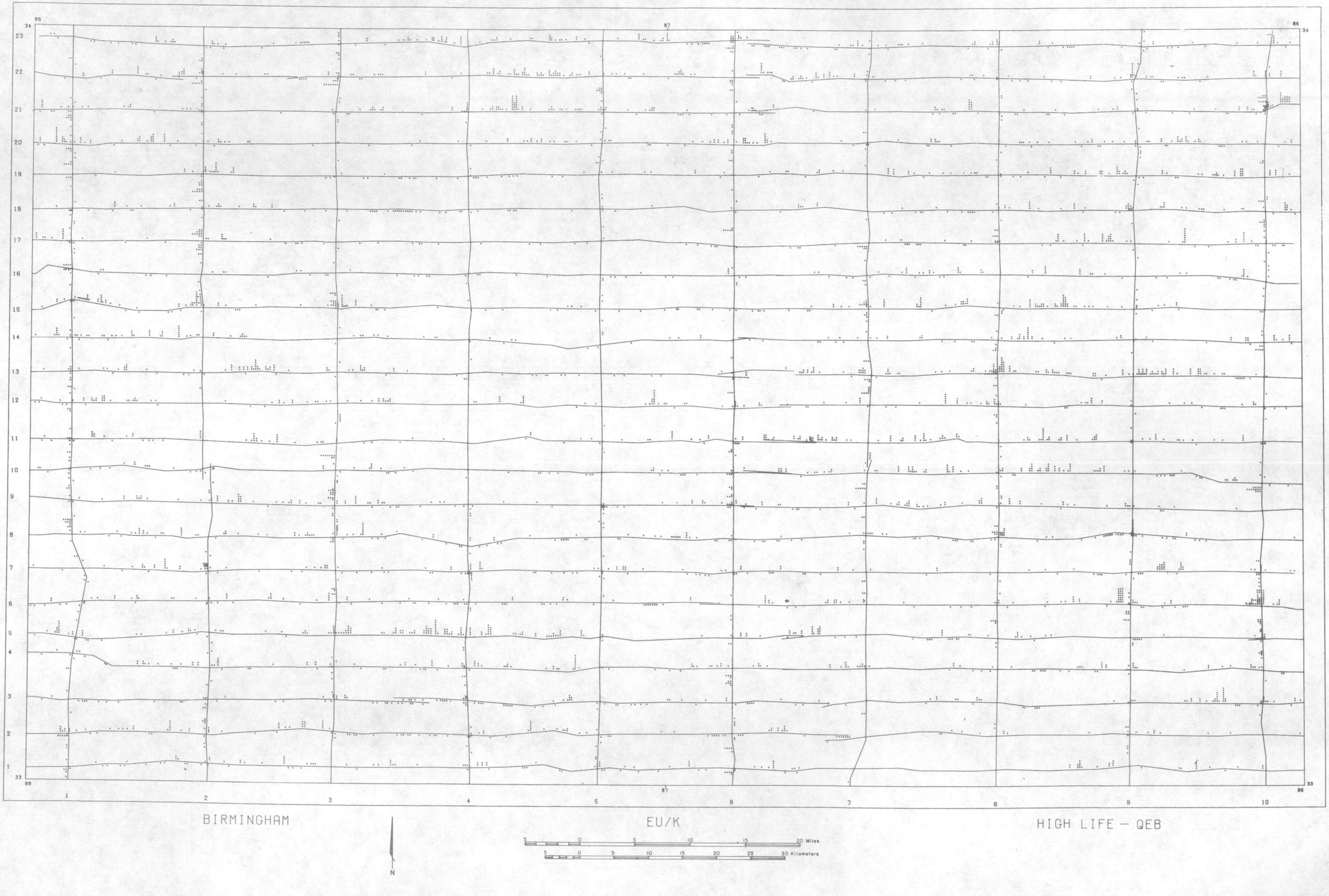
APPENDIX G - ANOMALY MAPS


BIRMINGHAM
EU
HIGH LIFE- QEB
20 Miles
30 Kilometers
N

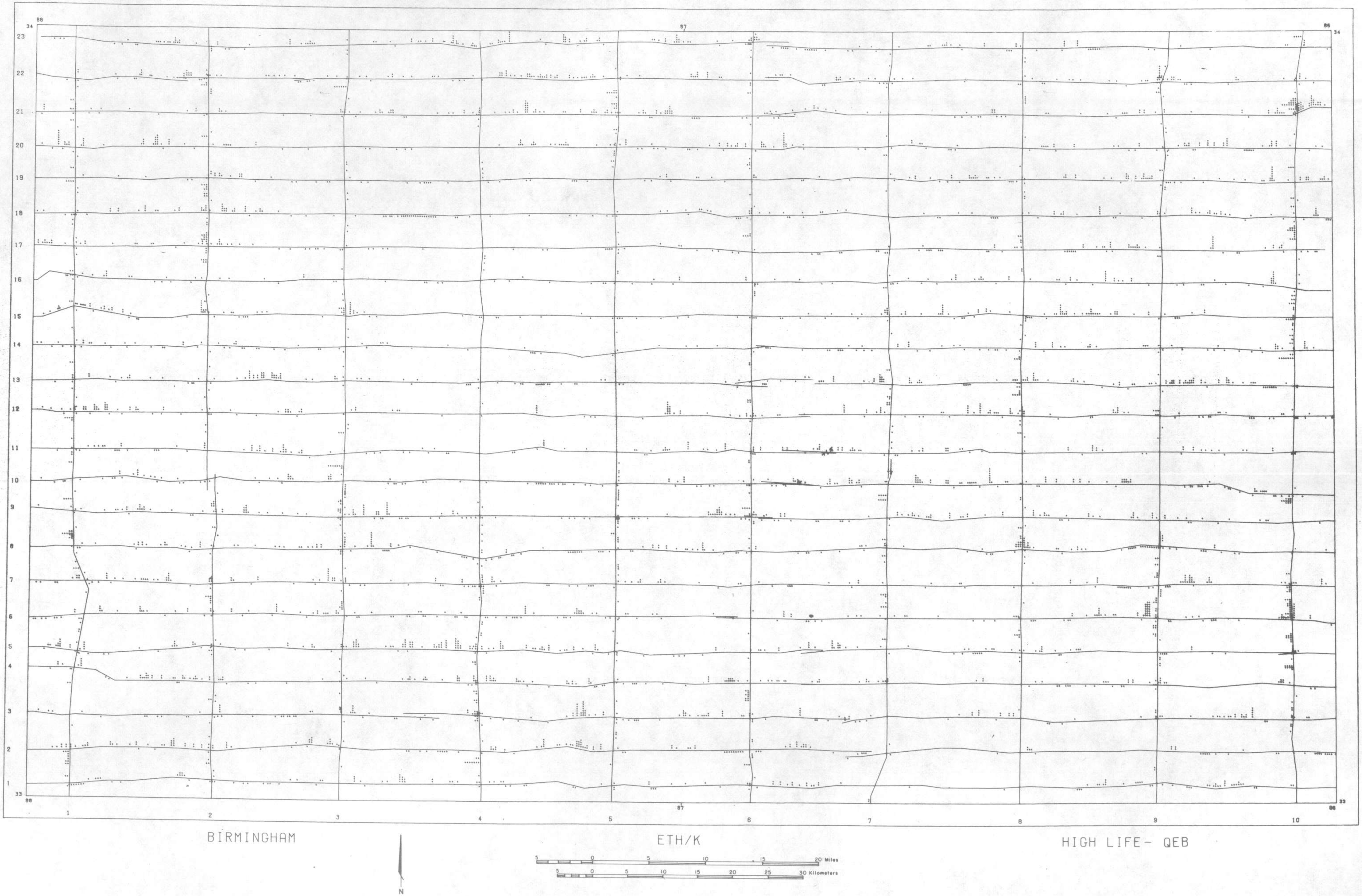


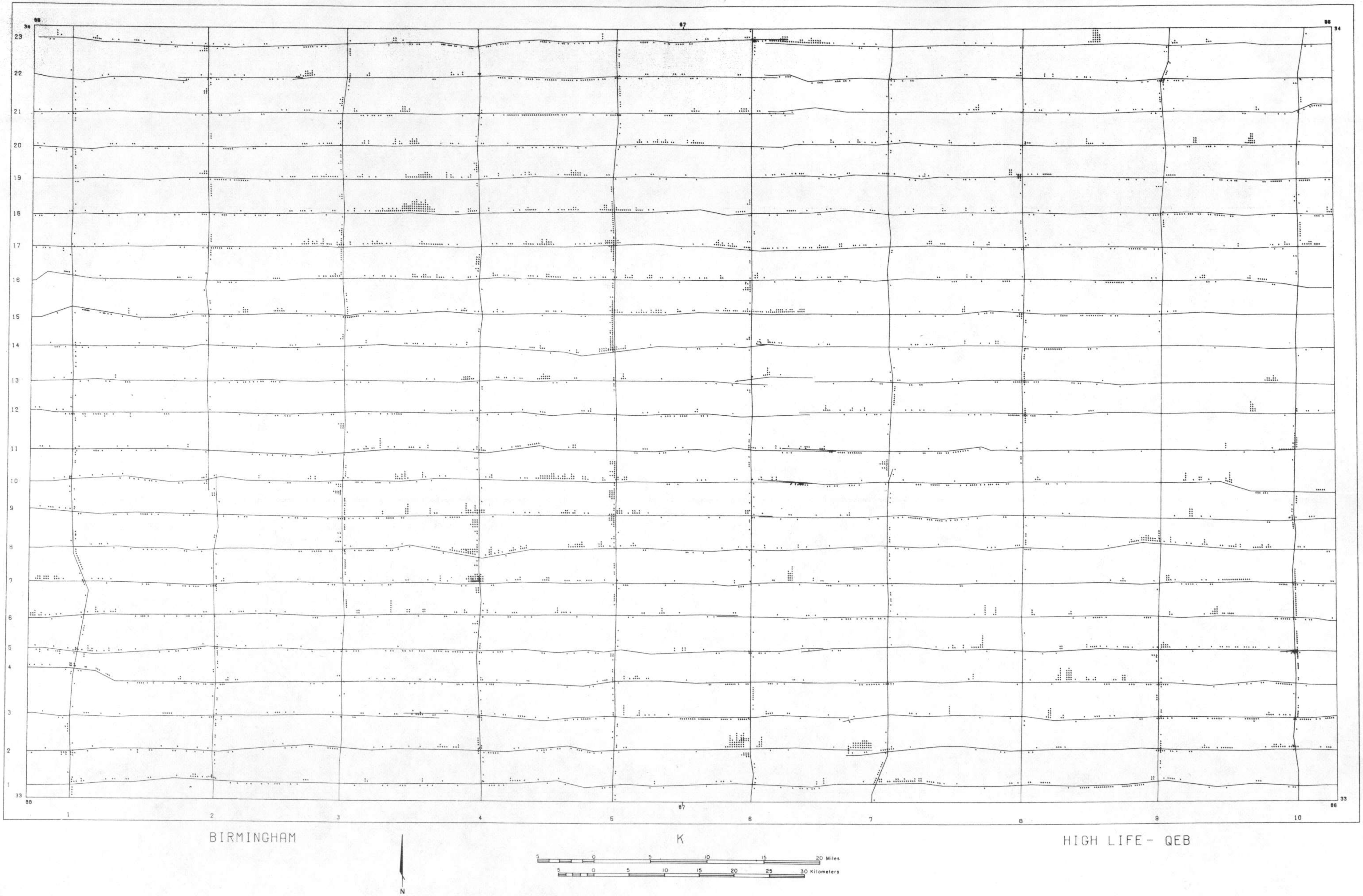
BIRMINGHAM
ETH
HIGH LIFE - QEB
Miles
Kilometers
N


BIRMINGHAM
EU/ETH
HIGH LIFE - QEB
20 Miles
30 Kilometers
N



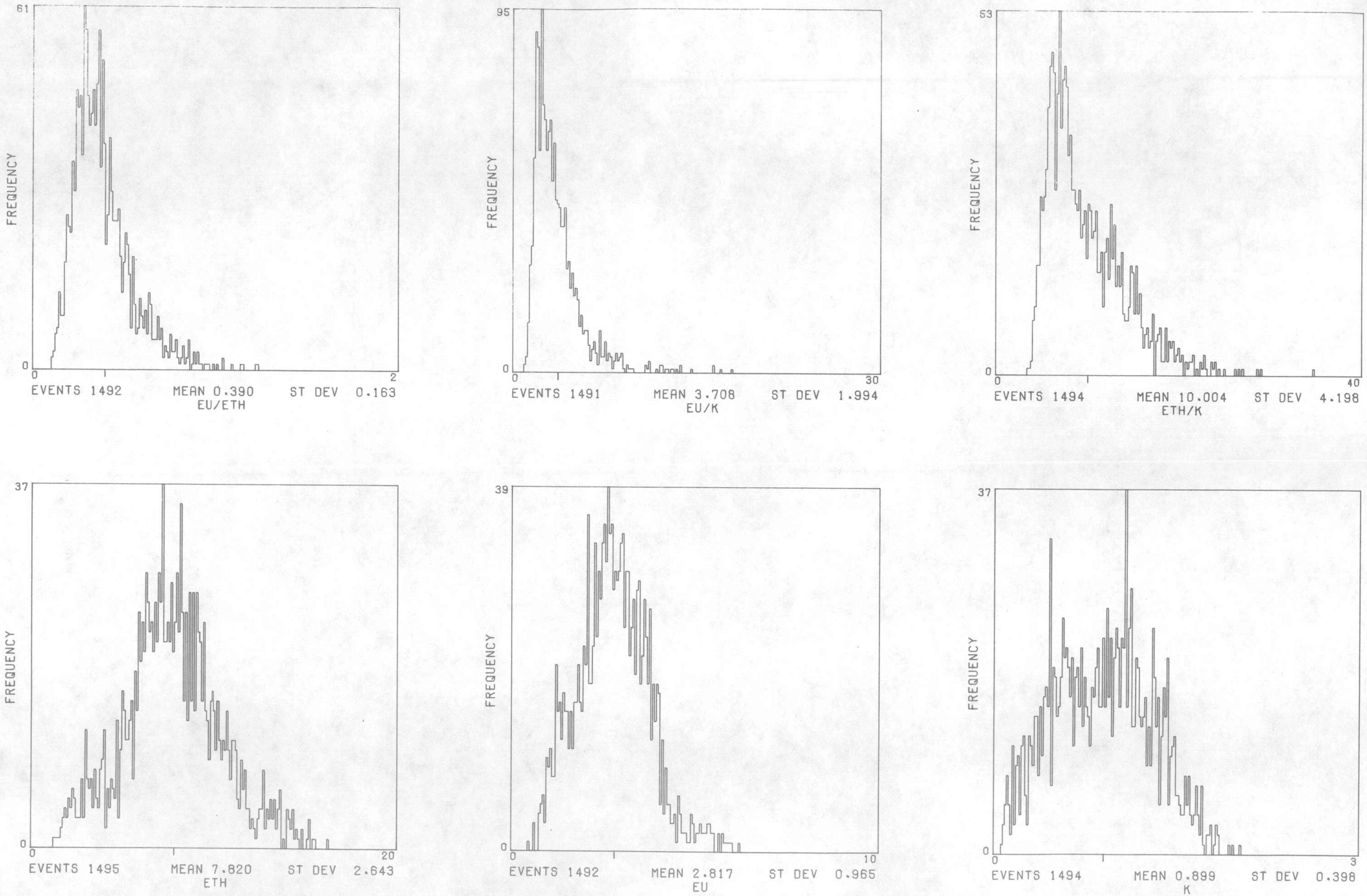
BIRMINGHAM
EU/K
HIGH LIFE – QEB
20 Miles
30 Kilometers
N


BIRMINGHAM
ETH/K
HIGH LIFE- QEB
5 0 5 10 15 20 Miles
5 0 5 10 15 20 25 30 Kilometers
N

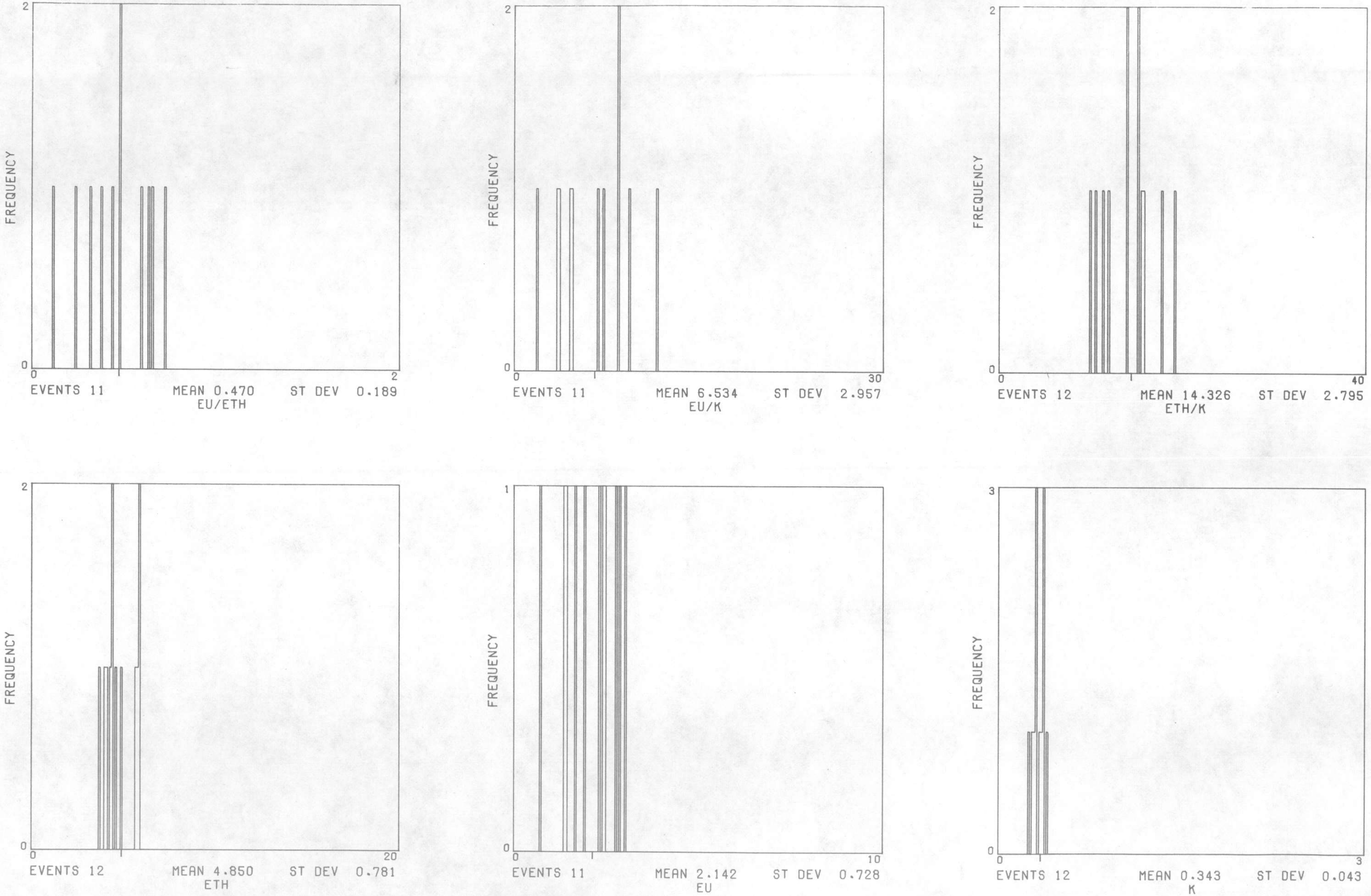


BIRMINGHAM
K
HIGH LIFE- QEB
20 Miles
30 Kilometers
N

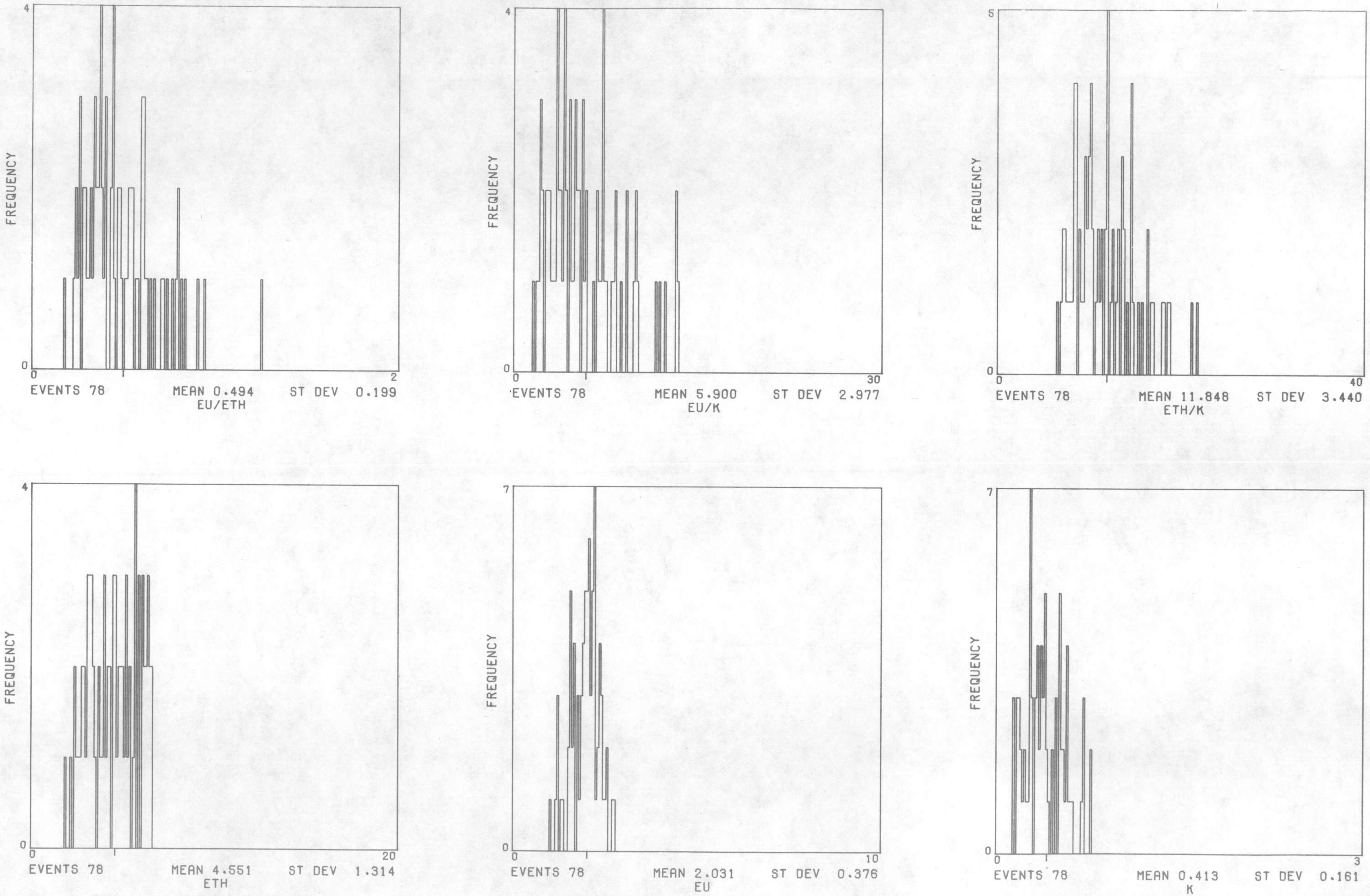
APPENDIX H - GEOLOGIC HISTOGRAMS


61
FREQUENCY
0
0
2
EVENTS 1492
MEAN 0.390
ST DEV 0.163
EU/ETH
95
FREQUENCY
0
0
30
EVENTS 1491
MEAN 3.708
ST DEV 1.994
EU/K
53
FREQUENCY
0
0
40
EVENTS 1494
MEAN 10.004
ST DEV 4.198
ETH/K
37
FREQUENCY
0
0
20
EVENTS 1495
MEAN 7.820
ST DEV 2.643
ETH
39
FREQUENCY
0
0
10
EVENTS 1492
MEAN 2.817
ST DEV 0.965
EU
37
FREQUENCY
0
0
3
EVENTS 1494
MEAN 0.899
ST DEV 0.398
K

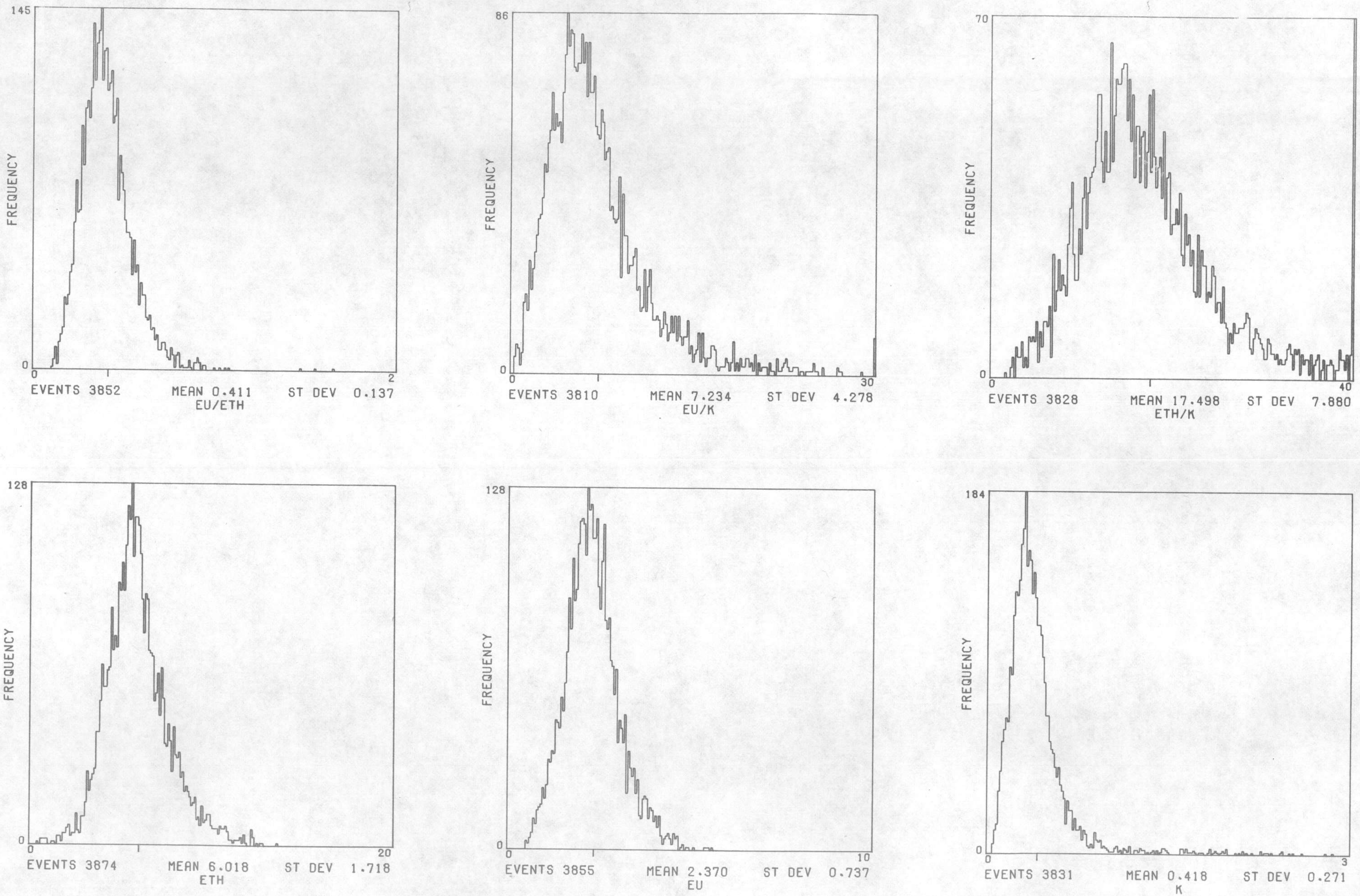
UNIT AA


2
FREQUENCY
0
0
2
EVENTS 11
MEAN 0.470
ST DEV 0.189
EU/ETH
2
FREQUENCY
0
0
30
EVENTS 11
MEAN 6.534
ST DEV 2.957
EU/K
2
FREQUENCY
0
0
40
EVENTS 12
MEAN 14.326
ST DEV 2.795
ETH/K
2
FREQUENCY
0
0
20
EVENTS 12
MEAN 4.850
ST DEV 0.781
ETH
1
FREQUENCY
0
0
10
EVENTS 11
MEAN 2.142
ST DEV 0.728
EU
3
FREQUENCY
0
0
3
EVENTS 12
MEAN 0.343
ST DEV 0.043
K

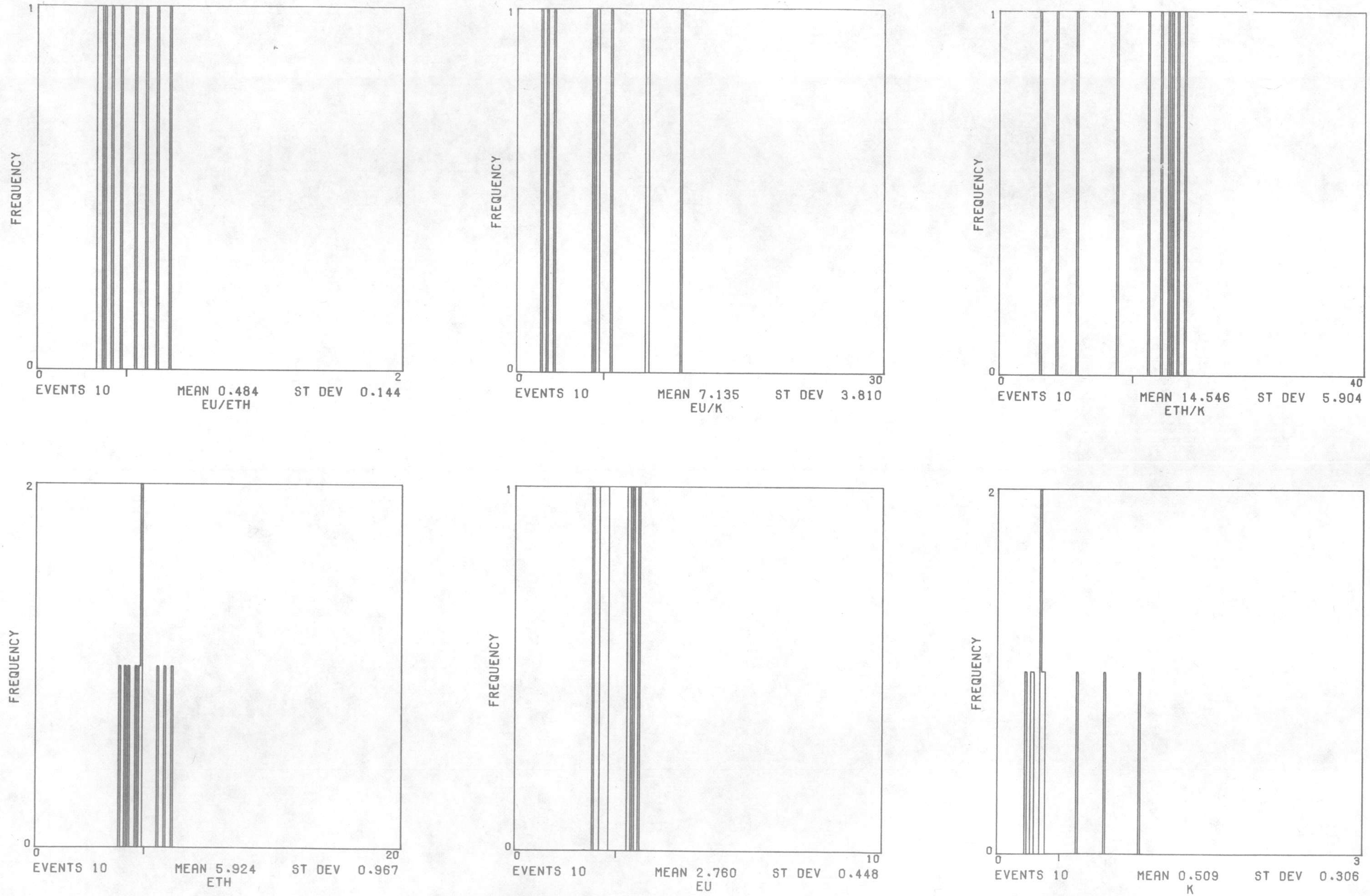
UNIT ACK


FREQUENCY
4
0
0
2
EVENTS 78
MEAN 0.494
ST DEV 0.199
EU/ETH
FREQUENCY
4
0
0
30
EVENTS 78
MEAN 5.900
ST DEV 2.977
EU/K
FREQUENCY
5
0
0
40
EVENTS 78
MEAN 11.848
ST DEV 3.440
ETH/K
FREQUENCY
4
0
0
20
EVENTS 78
MEAN 4.551
ST DEV 1.314
ETH
FREQUENCY
7
0
0
10
EVENTS 78
MEAN 2.031
ST DEV 0.376
EU
FREQUENCY
7
0
0
3
EVENTS 78
MEAN 0.413
ST DEV 0.161
K

UNIT BPY


145
FREQUENCY
0
0
2
EVENTS 3852
MEAN 0.411
ST DEV 0.137
EU/ETH
86
FREQUENCY
0
0
30
EVENTS 3810
MEAN 7.234
ST DEV 4.278
EU/K
70
FREQUENCY
0
0
40
EVENTS 3828
MEAN 17.498
ST DEV 7.880
ETH/K
128
FREQUENCY
0
0
20
EVENTS 3874
MEAN 6.018
ST DEV 1.718
ETH
128
FREQUENCY
0
0
10
EVENTS 3855
MEAN 2.370
ST DEV 0.737
EU
184
FREQUENCY
0
0
3
EVENTS 3831
MEAN 0.418
ST DEV 0.271
K

UNIT CC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EVENTS 10
MEAN 7.135
ST DEV 3.810
EU/K
FREQUENCY
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0
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EVENTS 10
MEAN 14.546
ST DEV 5.904
ETH/K
FREQUENCY
2
0
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20
EVENTS 10
MEAN 5.924
ST DEV 0.967
ETH
FREQUENCY
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EVENTS 10
MEAN 2.760
ST DEV 0.448
EU
FREQUENCY
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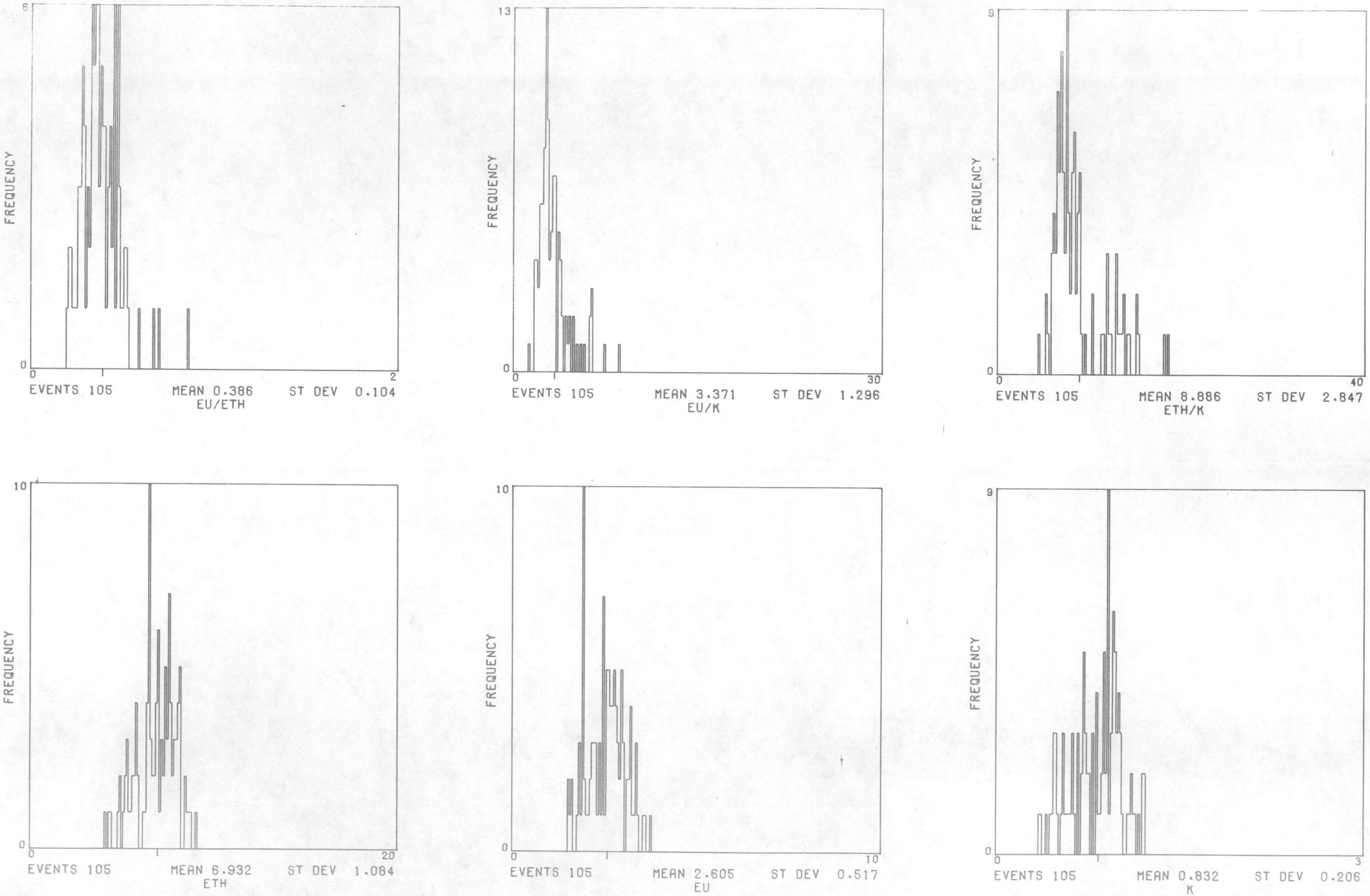
EVENTS 10
MEAN 0.509
ST DEV 0.306
K

UNIT CCK



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FREQUENCY
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EVENTS 105
MEAN 3.371
ST DEV 1.296
EU/K
9
FREQUENCY
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0
40
EVENTS 105
MEAN 8.886
ST DEV 2.847
ETH/K
10
FREQUENCY
0
0
20
EVENTS 105
MEAN 6.932
ST DEV 1.084
ETH
10
FREQUENCY
0
0
10
EVENTS 105
MEAN 2.605
ST DEV 0.517
EU
9
FREQUENCY
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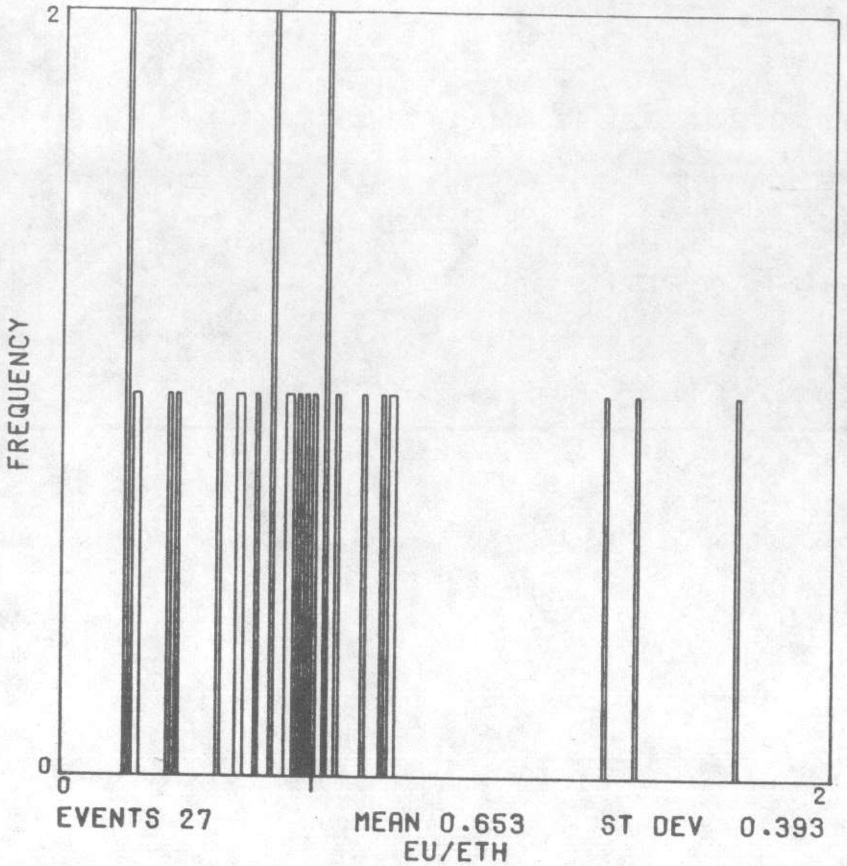
EVENTS 105
MEAN 0.832
ST DEV 0.206
K

UNIT CCW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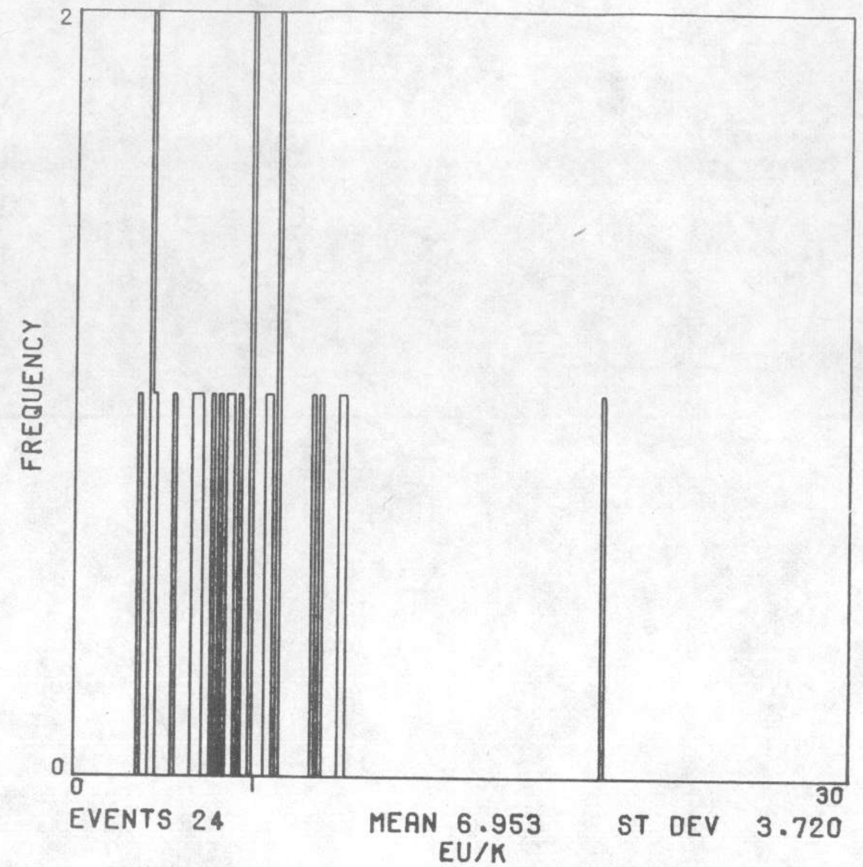
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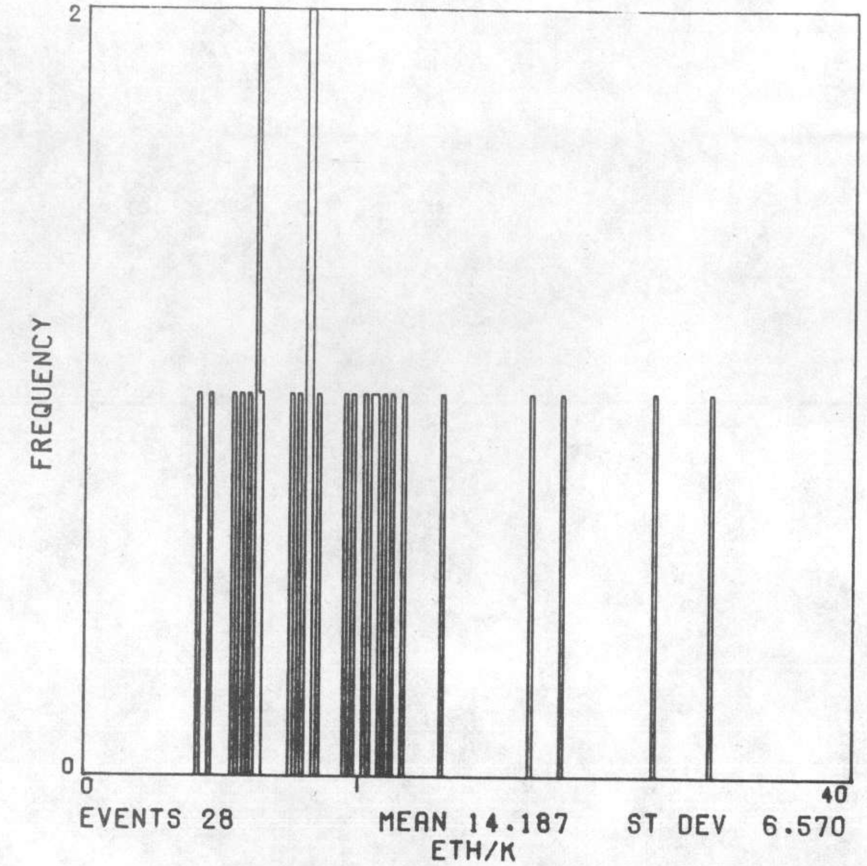
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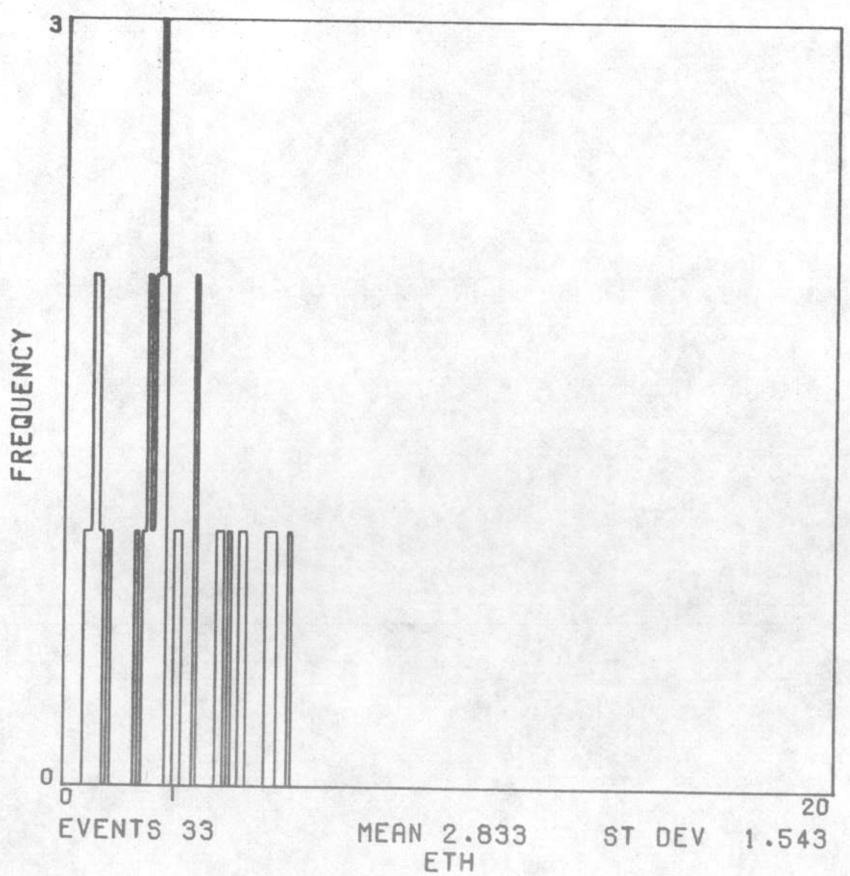
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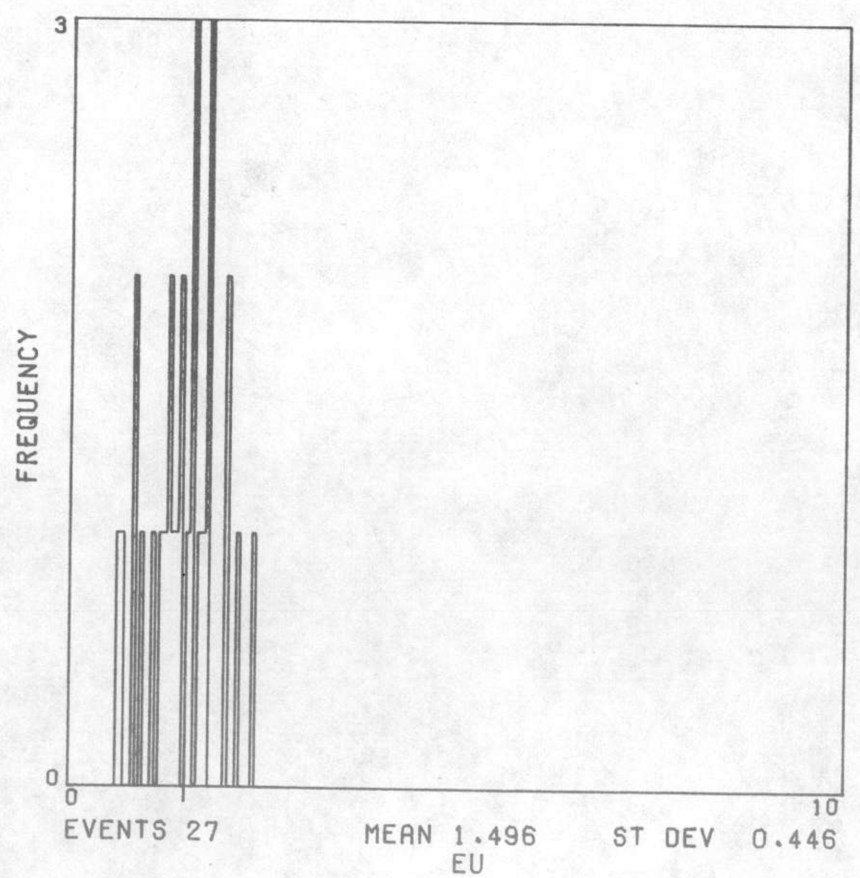
ETH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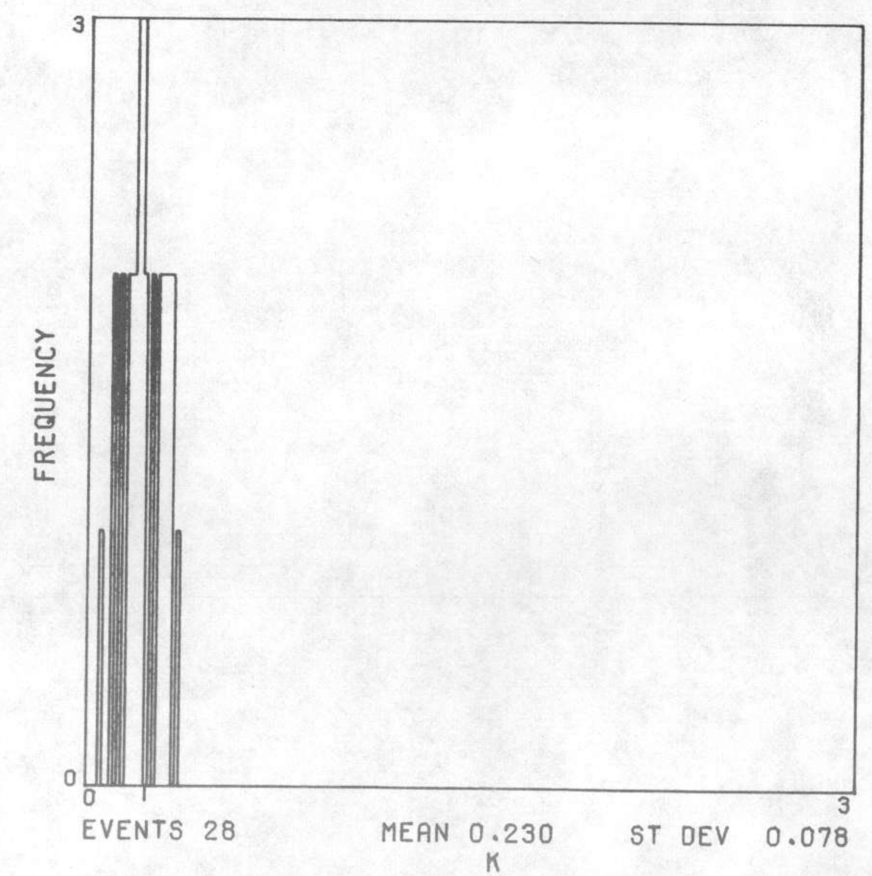
EU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EVENTS 28
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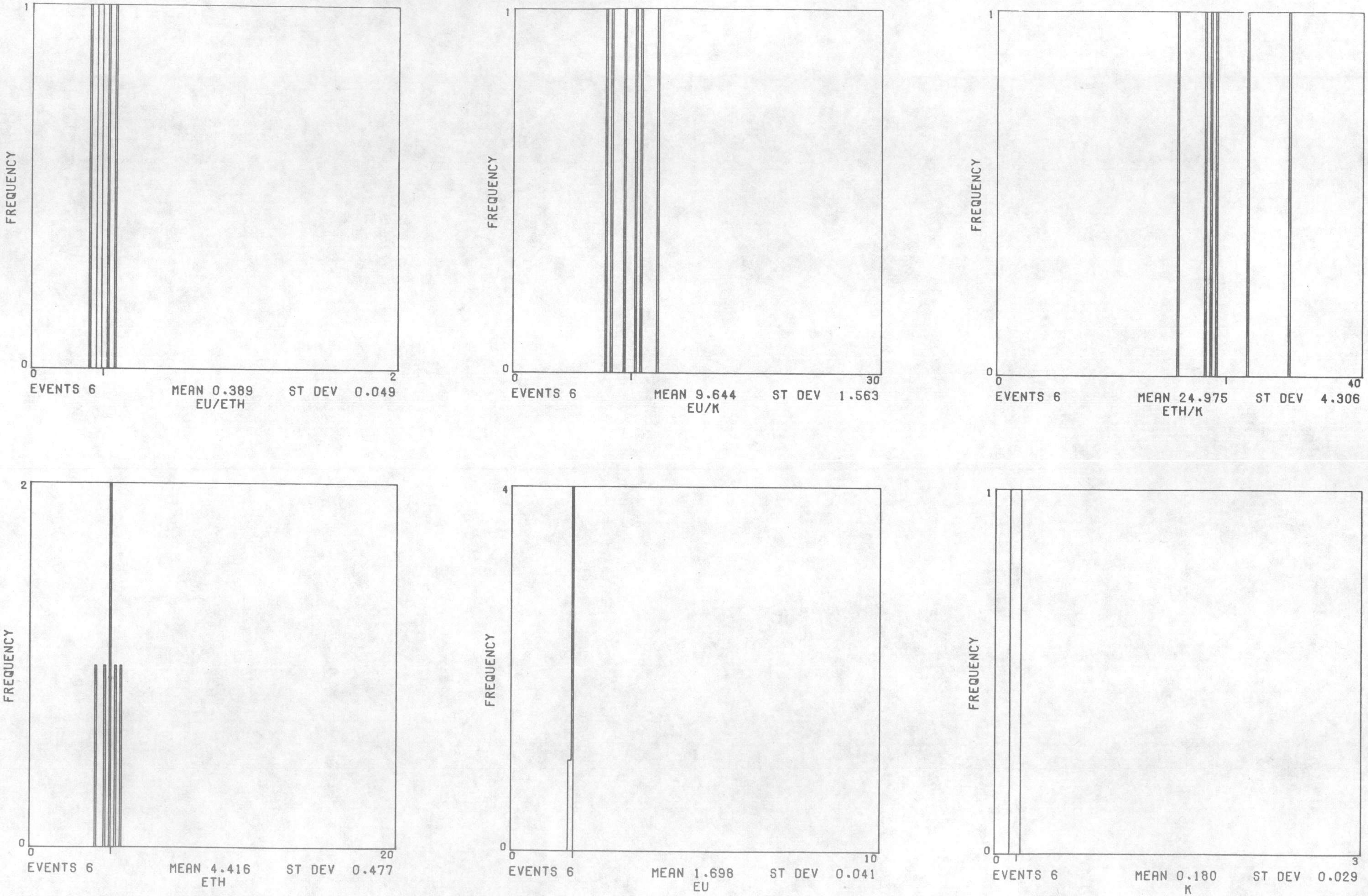
UNIT CK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EVENTS 6
MEAN 0.389
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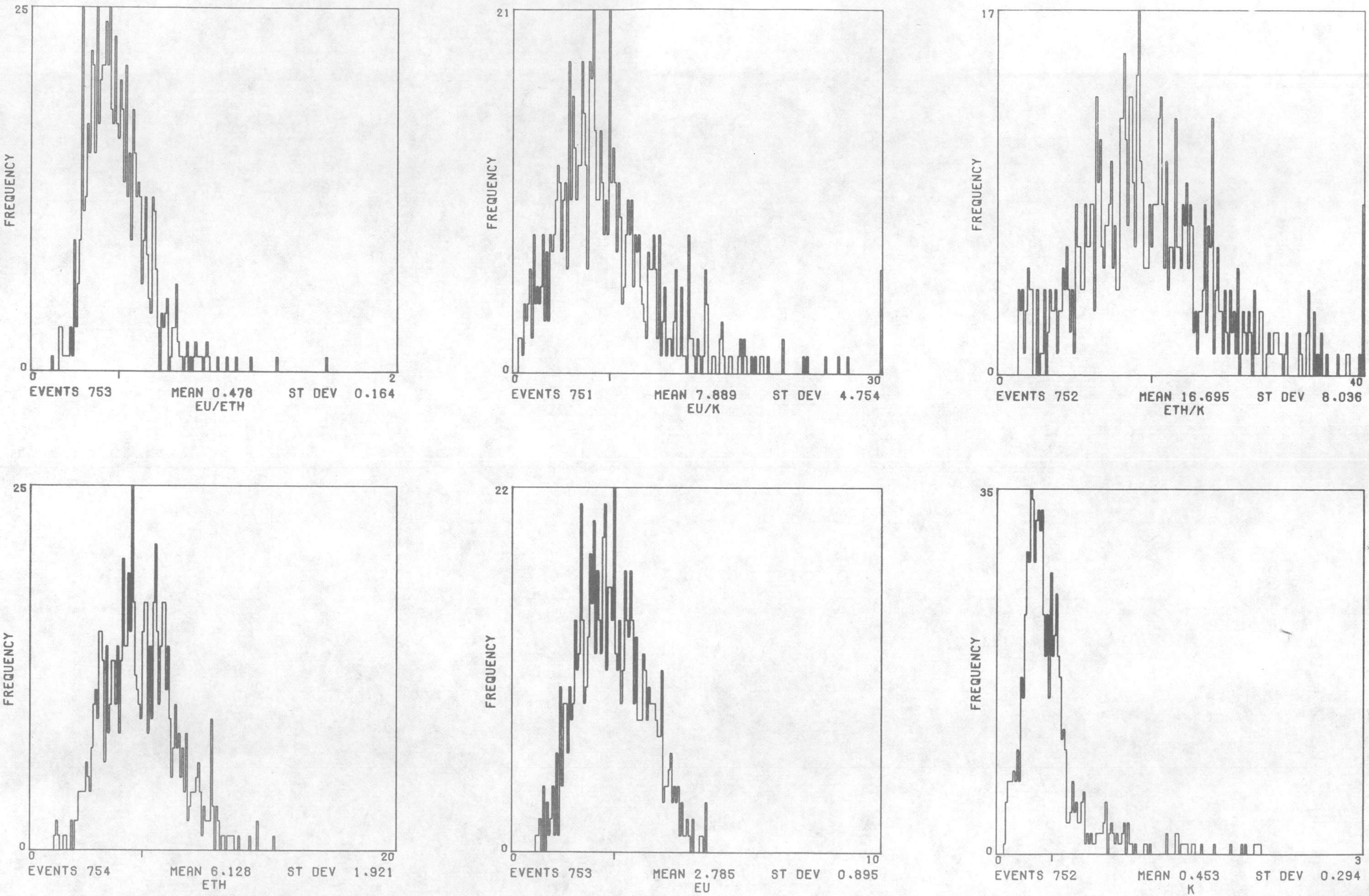
FREQUENCY
EVENTS 6
MEAN 9.644
ST DEV 1.563
EU/K
FREQUENCY
EVENTS 6
MEAN 24.975
ST DEV 4.306
ETH/K
FREQUENCY
EVENTS 6
MEAN 4.416
ST DEV 0.477
ETH
FREQUENCY
EVENTS 6
MEAN 1.698
ST DEV 0.041
EU
FREQUENCY
EVENTS 6
MEAN 0.180
ST DEV 0.029
K

UNIT CKP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FREQUENCY
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EVENTS 751
MEAN 7.889
ST DEV 4.754
EU/K
17
FREQUENCY
0
0
40
EVENTS 752
MEAN 16.695
ST DEV 8.036
ETH/K
25
FREQUENCY
0
0
20
EVENTS 754
MEAN 6.128
ST DEV 1.921
ETH
22
FREQUENCY
0
0
10
EVENTS 753
MEAN 2.785
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35
FREQUENCY
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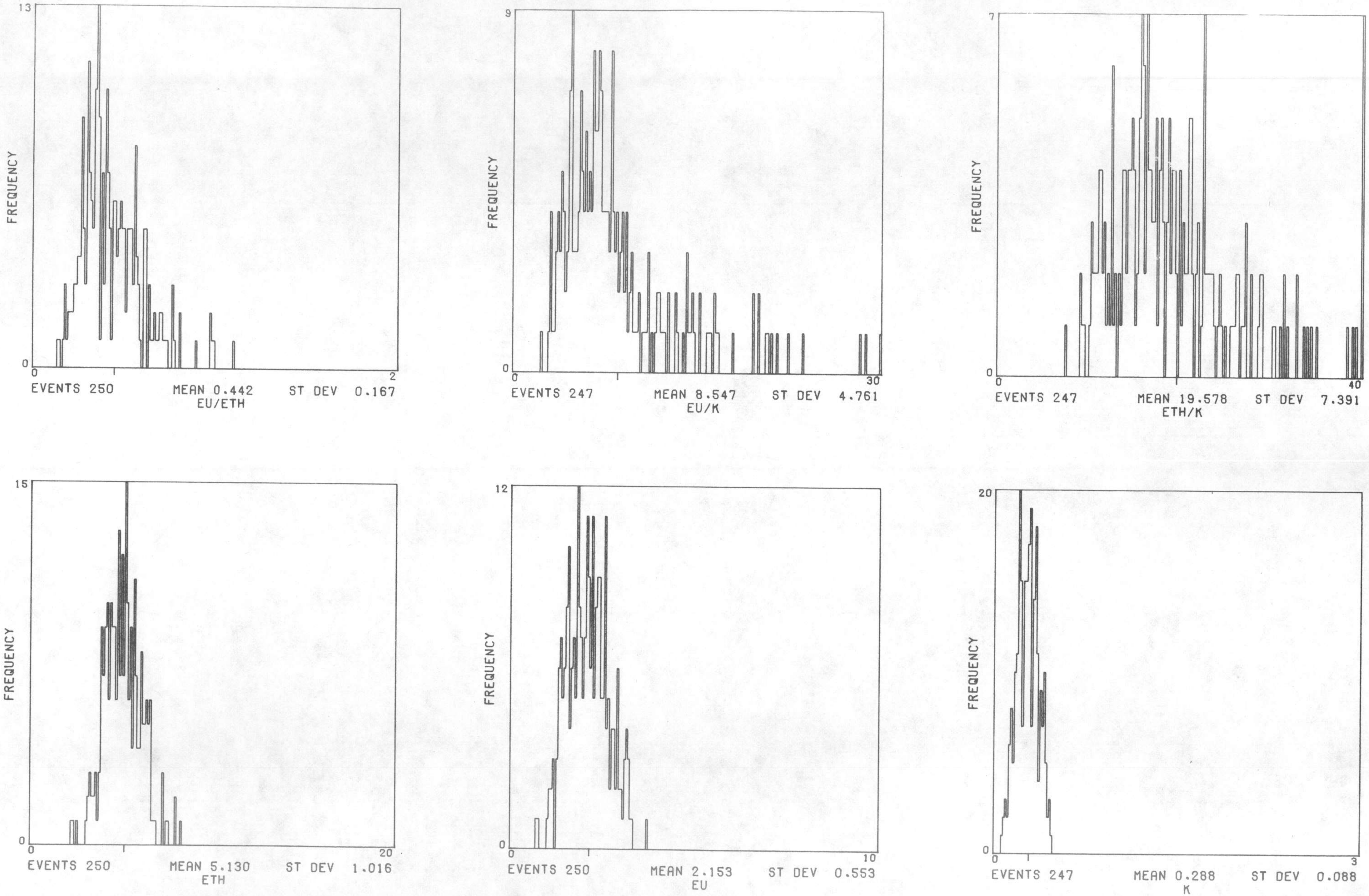
EVENTS 752
MEAN 0.453
ST DEV 0.294
K

UNIT CKT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EU/ETH
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EVENTS 247
MEAN 8.547
ST DEV 4.761
EU/K
FREQUENCY
7
0
0
40
EVENTS 247
MEAN 19.578
ST DEV 7.391
ETH/K
FREQUENCY
15
0
0
20
EVENTS 250
MEAN 5.130
ST DEV 1.016
ETH
FREQUENCY
12
0
0
10
EVENTS 250
MEAN 2.153
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EU
FREQUENCY
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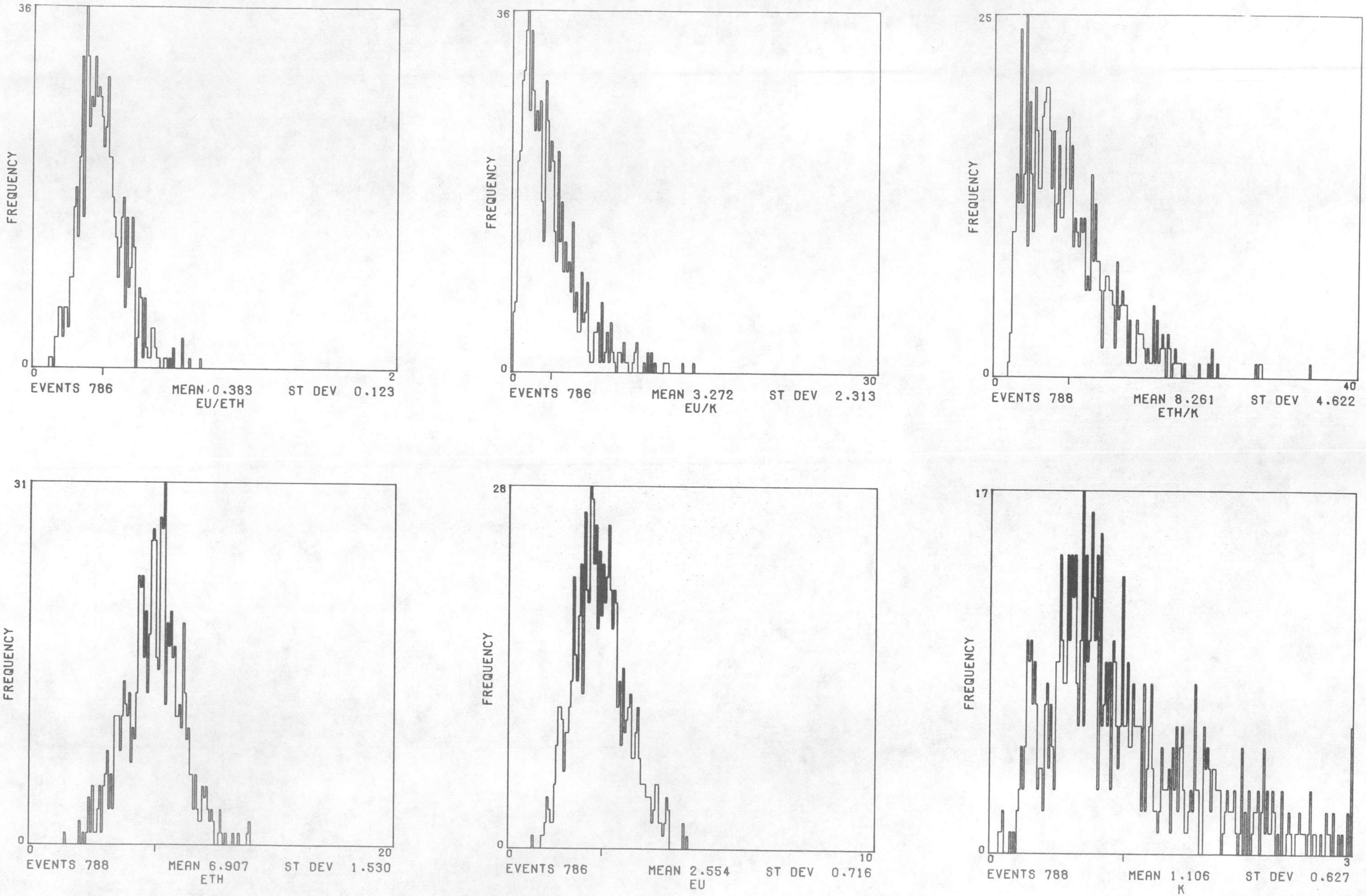
EVENTS 247
MEAN 0.288
ST DEV 0.088
K

UNIT C0K


36
FREQUENCY
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MEAN 0.383
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EU/ETH
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FREQUENCY
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EVENTS 786
MEAN 3.272
ST DEV 2.313
EU/K
25
FREQUENCY
0
0
40
EVENTS 788
MEAN 8.261
ST DEV 4.622
ETH/K
31
FREQUENCY
0
0
20
EVENTS 788
MEAN 6.907
ST DEV 1.530
ETH
28
FREQUENCY
0
0
10
EVENTS 786
MEAN 2.554
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EU
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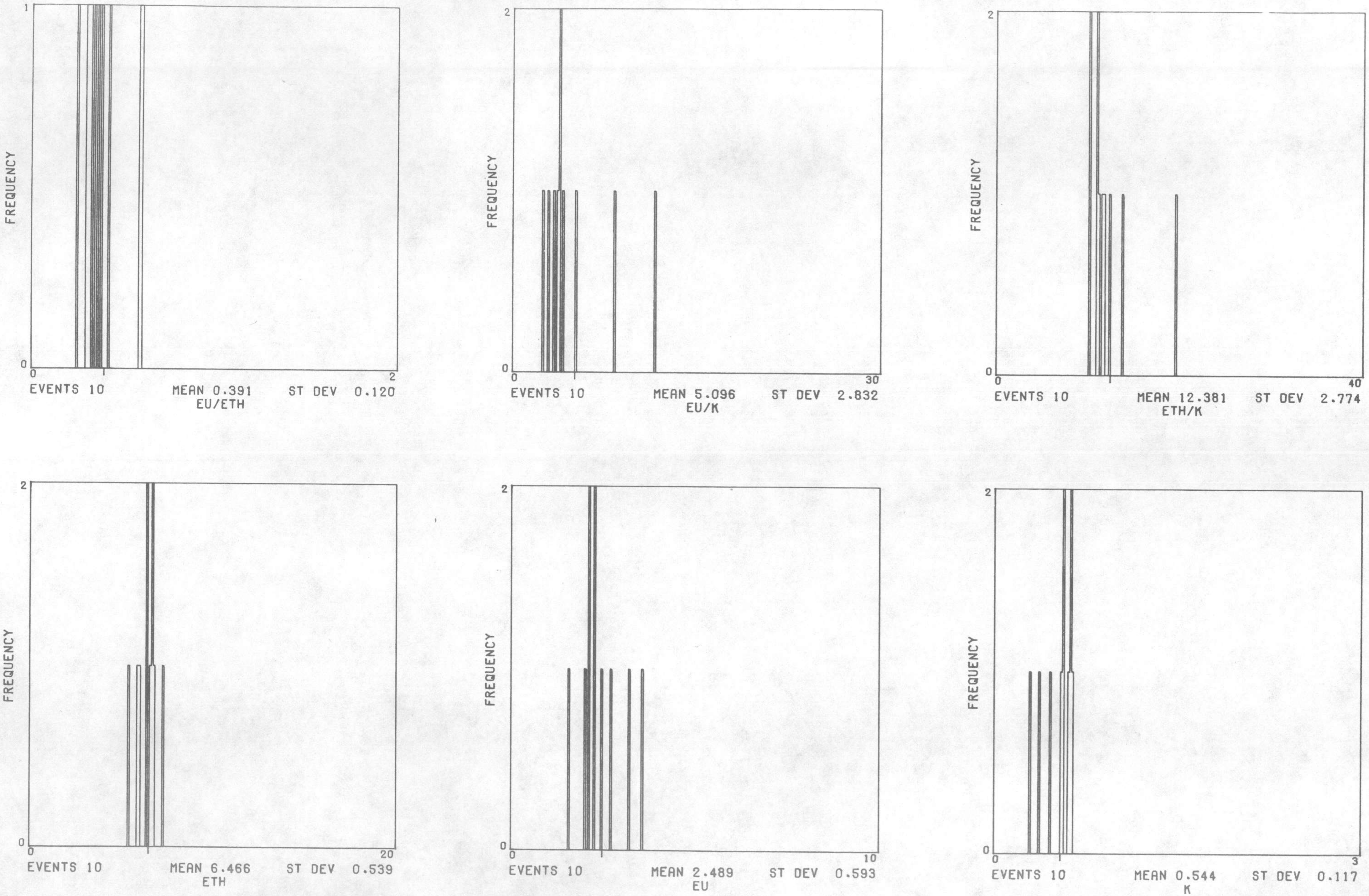
ST DEV 0.627
K

UNIT CR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EVENTS 10
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FREQUENCY
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0
30
EVENTS 10
MEAN 5.096
ST DEV 2.832
EU/K
FREQUENCY
2
0
0
40
EVENTS 10
MEAN 12.381
ST DEV 2.774
ETH/K
FREQUENCY
2
0
0
20
EVENTS 10
MEAN 6.466
ST DEV 0.539
ETH
FREQUENCY
2
0
0
10
EVENTS 10
MEAN 2.489
ST DEV 0.593
EU
FREQUENCY
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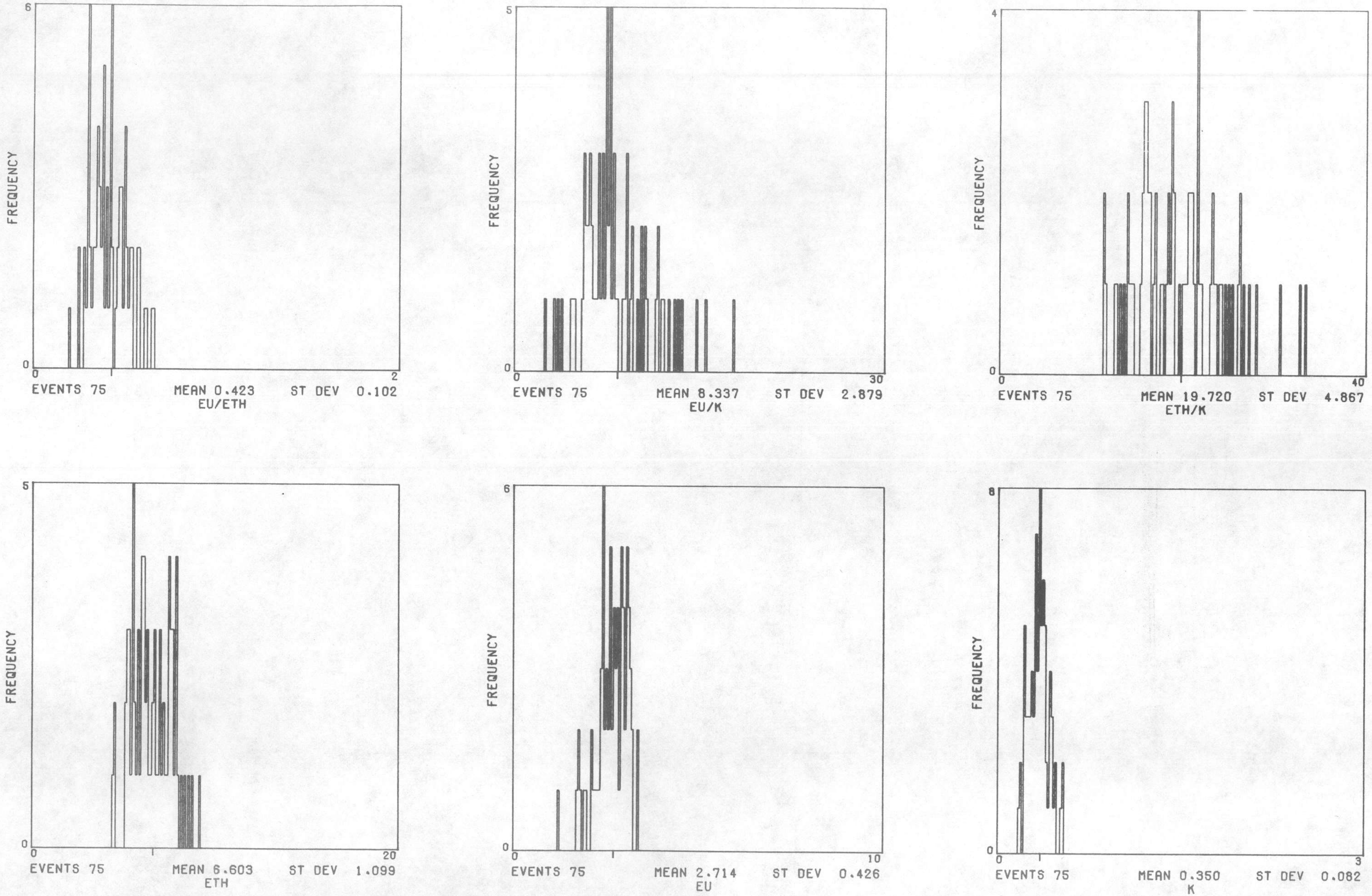
EVENTS 10
MEAN 0.544
ST DEV 0.117
K

UNIT CS


FREQUENCY
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EVENTS 75
MEAN 0.423
ST DEV 0.102
EU/ETH
FREQUENCY
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EVENTS 75
MEAN 8.337
ST DEV 2.879
EU/K
FREQUENCY
4
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0
40
EVENTS 75
MEAN 19.720
ST DEV 4.867
ETH/K
FREQUENCY
5
0
0
20
EVENTS 75
MEAN 6.603
ST DEV 1.099
ETH
FREQUENCY
6
0
0
10
EVENTS 75
MEAN 2.714
ST DEV 0.426
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FREQUENCY
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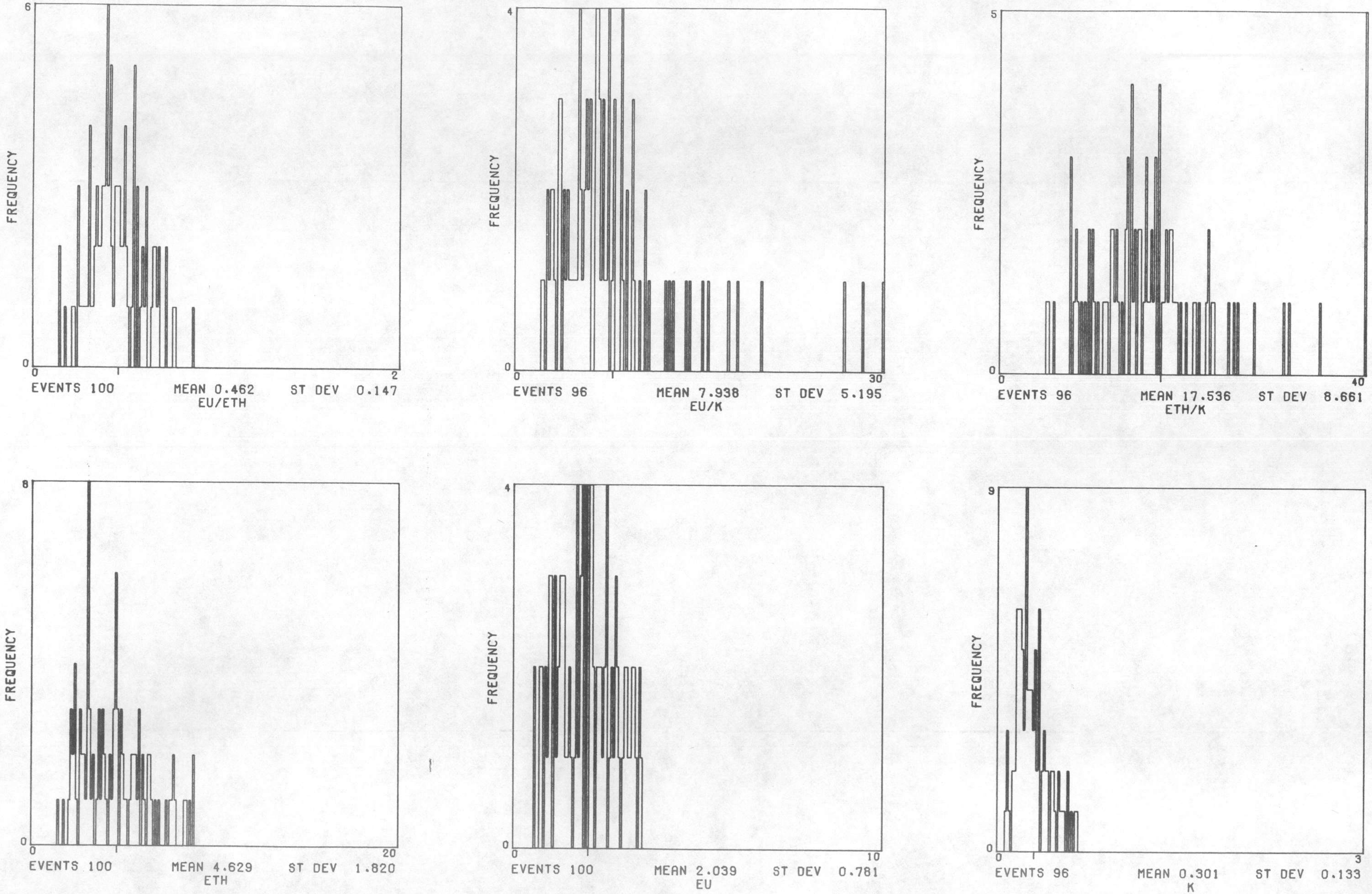
EVENTS 75
MEAN 0.350
ST DEV 0.082
K

UNIT CU


FREQUENCY
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EVENTS 100
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4
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EVENTS 96
MEAN 7.938
ST DEV 5.195
EU/K
FREQUENCY
5
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0
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EVENTS 96
MEAN 17.536
ST DEV 8.661
ETH/K
FREQUENCY
8
0
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20
EVENTS 100
MEAN 4.629
ST DEV 1.820
ETH
FREQUENCY
4
0
0
10
EVENTS 100
MEAN 2.039
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FREQUENCY
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EVENTS 96
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ST DEV 0.133
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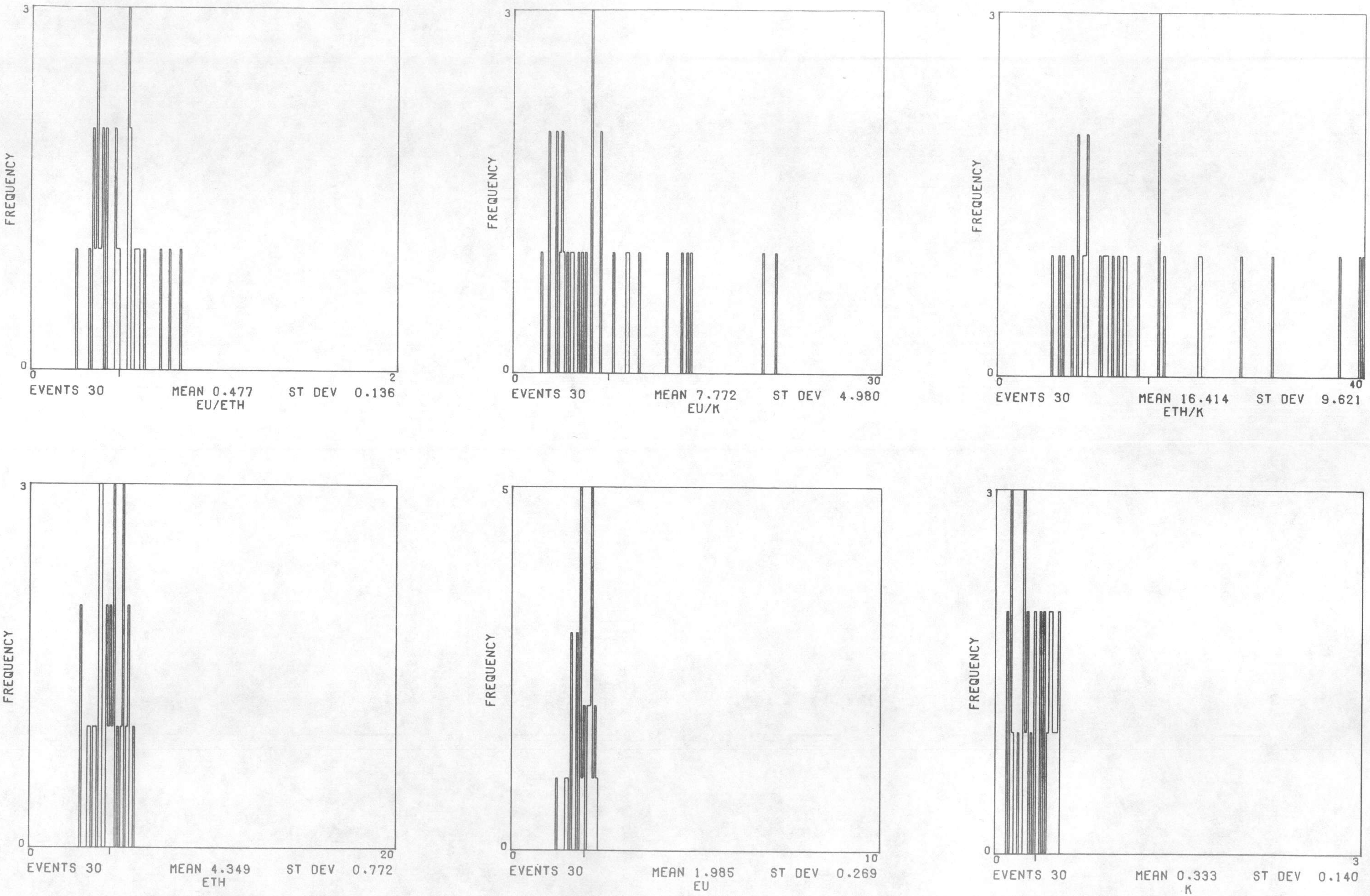
UNIT DC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EVENTS 30
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EVENTS 30
MEAN 7.772
ST DEV 4.980
EU/K
FREQUENCY
3
0
0
40
EVENTS 30
MEAN 16.414
ST DEV 9.621
ETH/K
FREQUENCY
3
0
0
20
EVENTS 30
MEAN 4.349
ST DEV 0.772
ETH
FREQUENCY
5
0
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10
EVENTS 30
MEAN 1.985
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ST DEV 0.140
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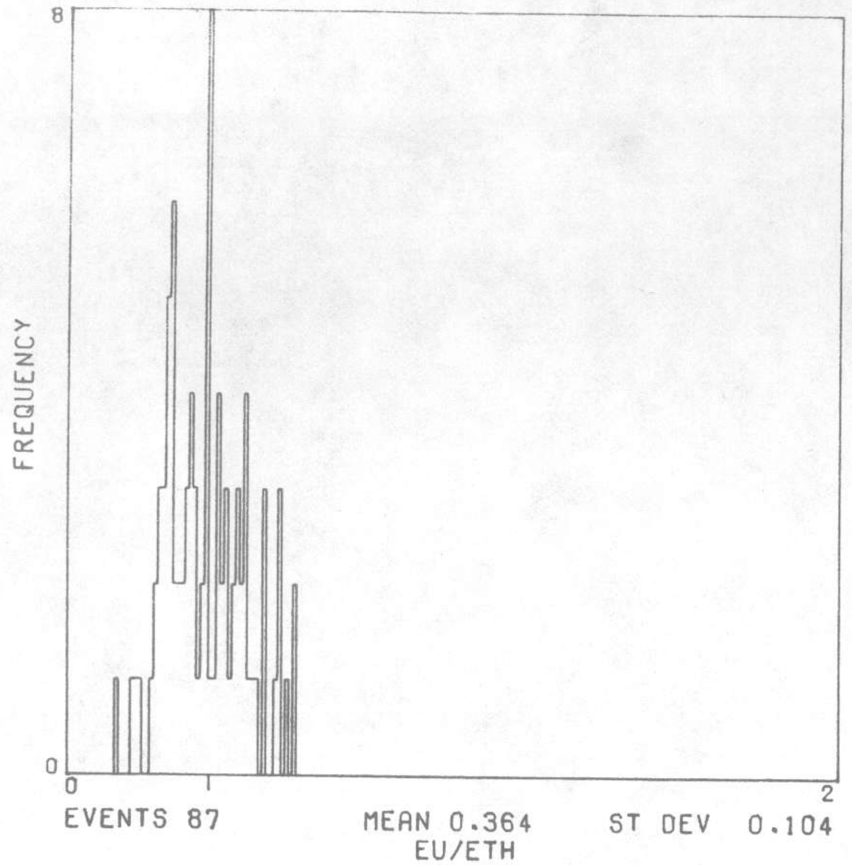
UNIT DCFM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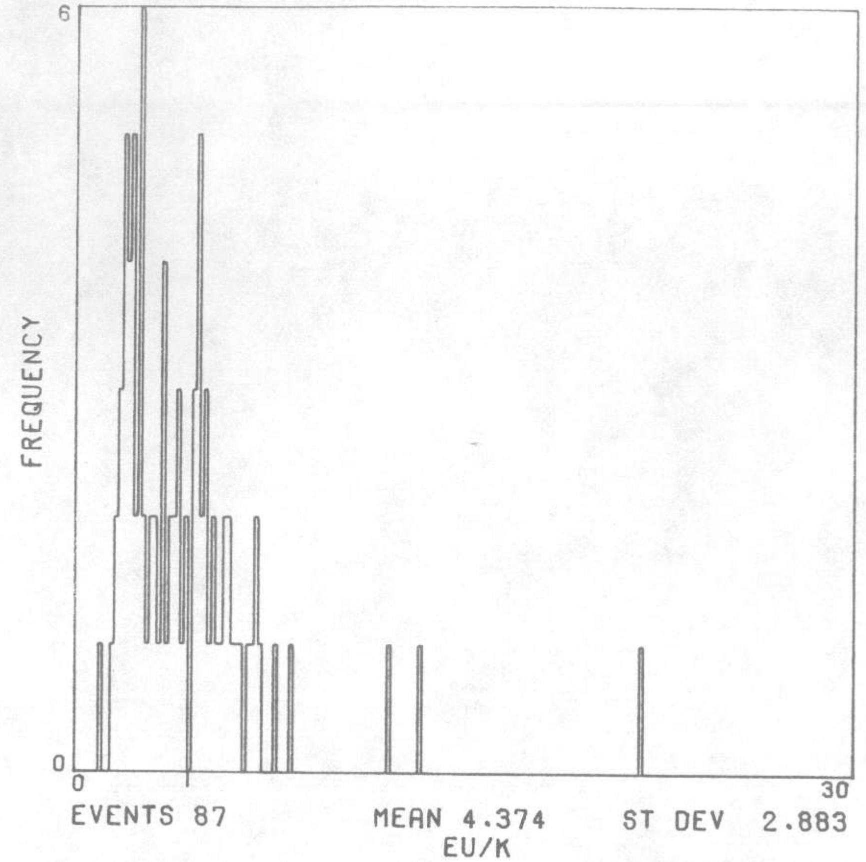
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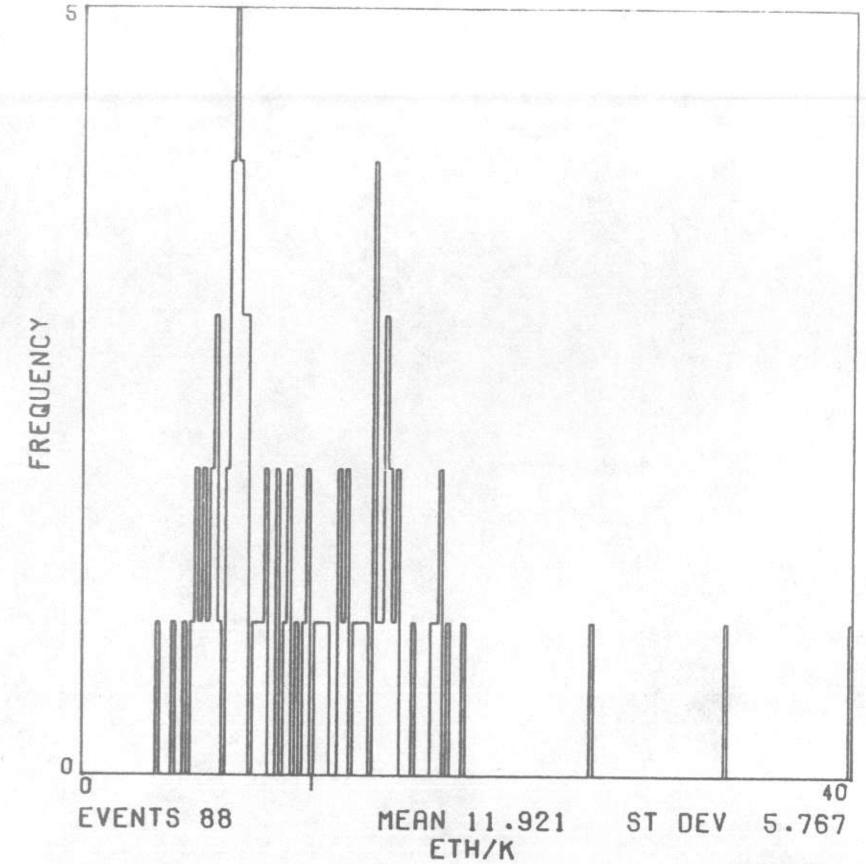
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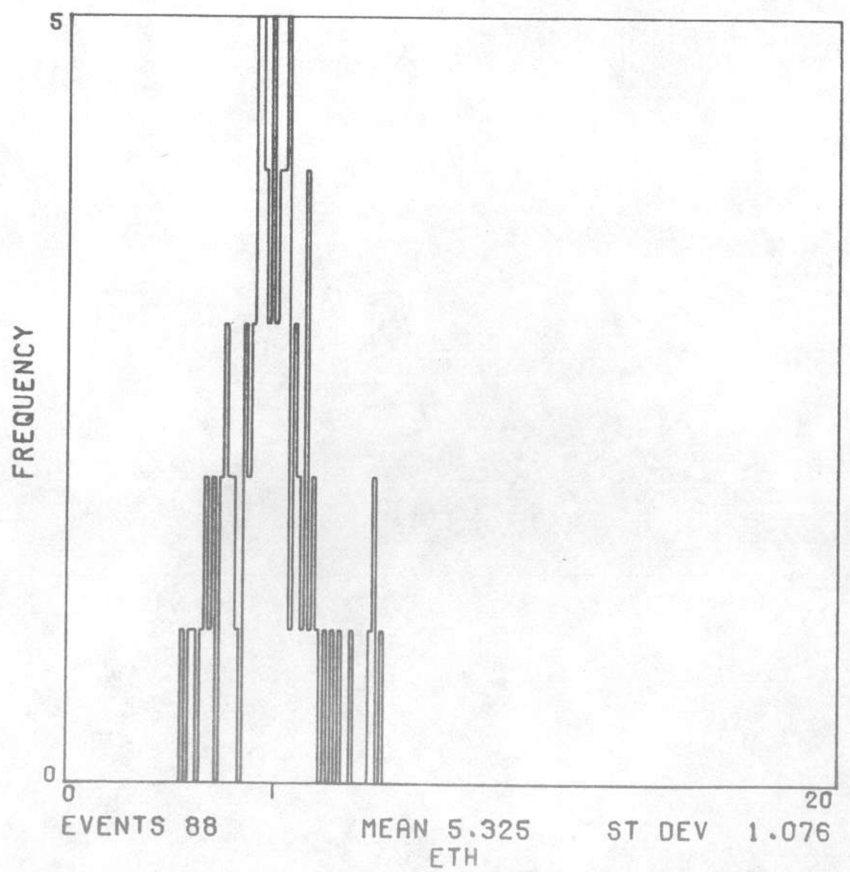
ST DEV 5.767
ETH/K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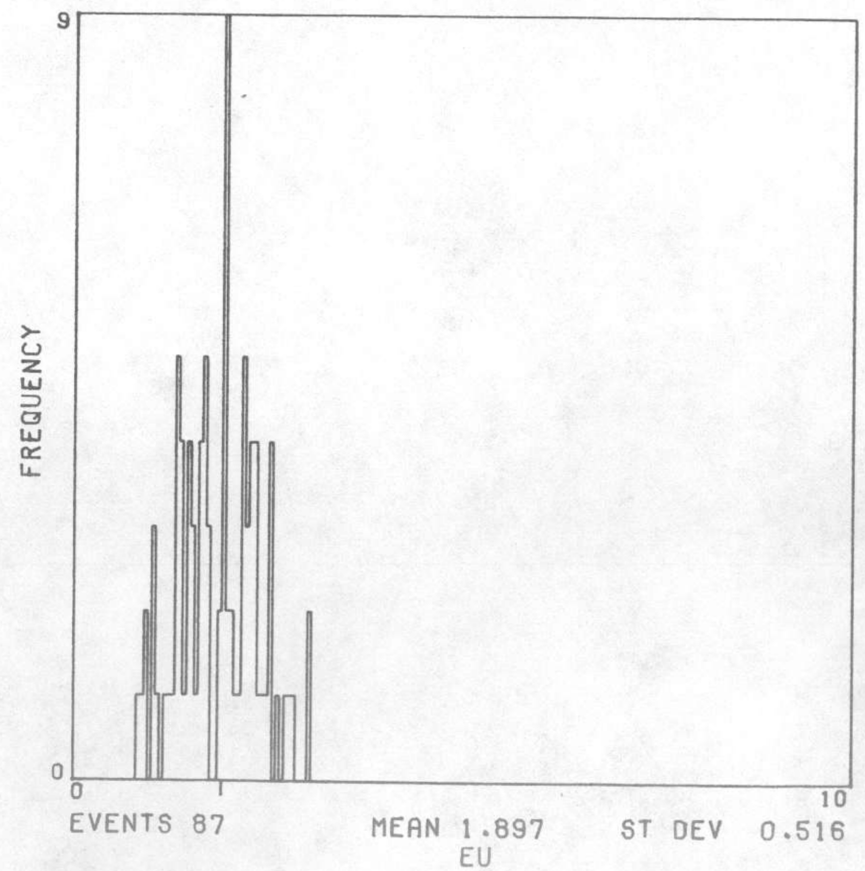
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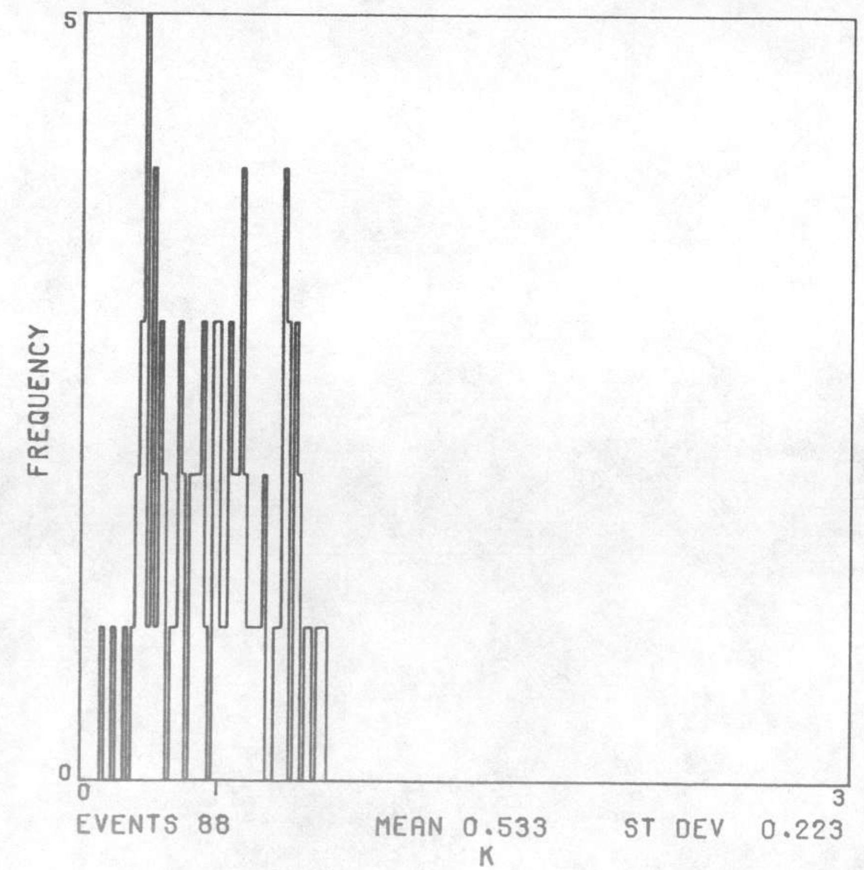
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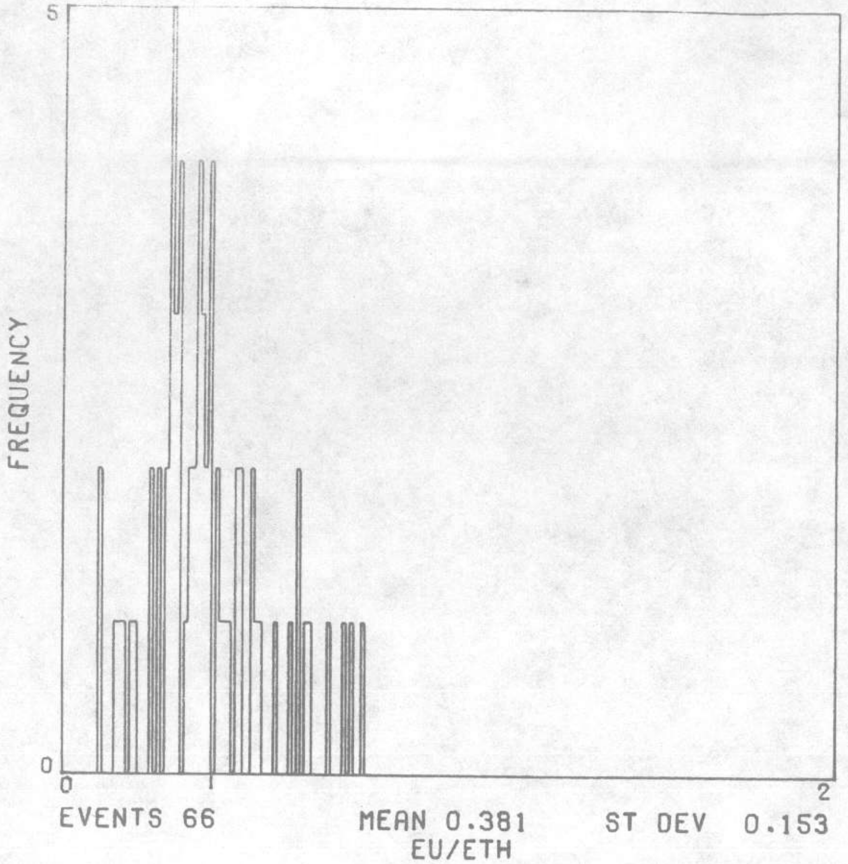
UNIT DFM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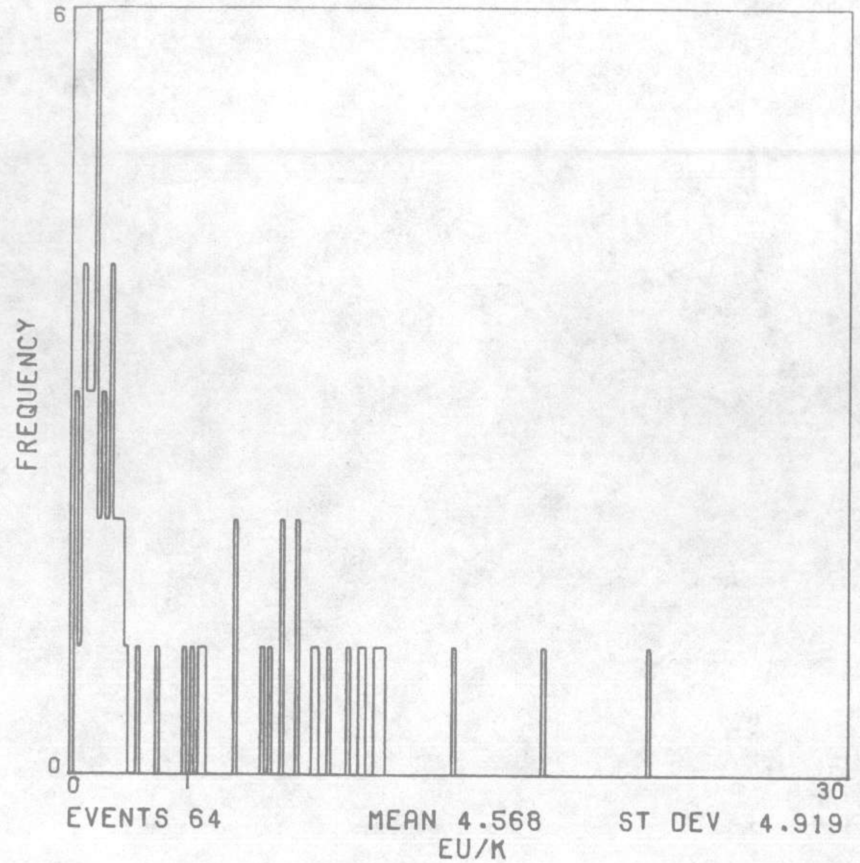
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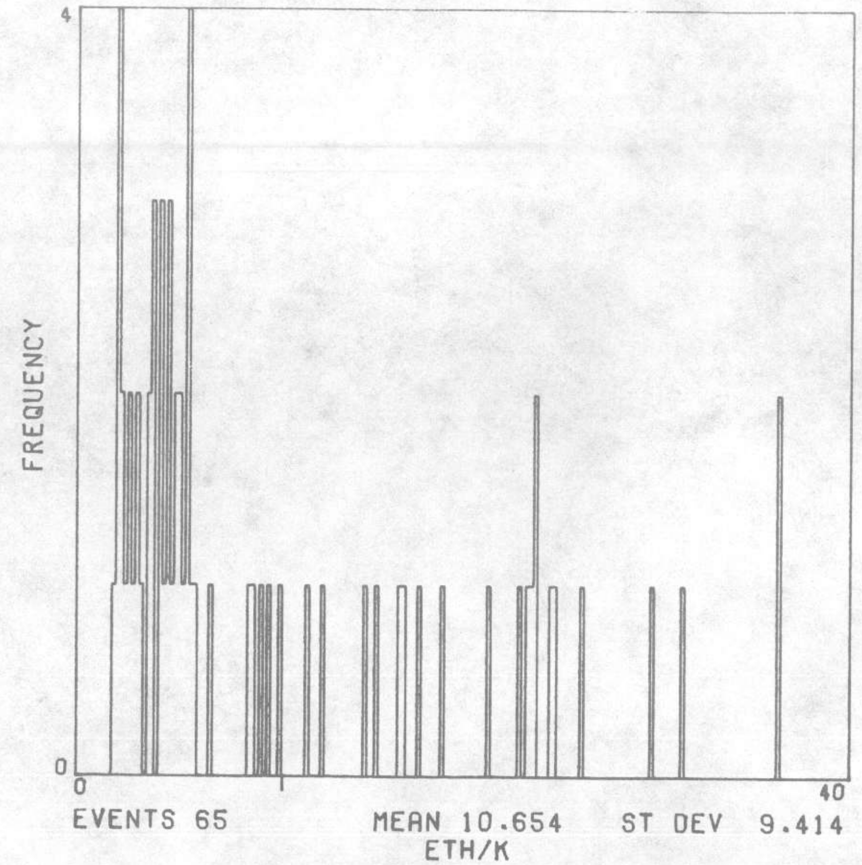
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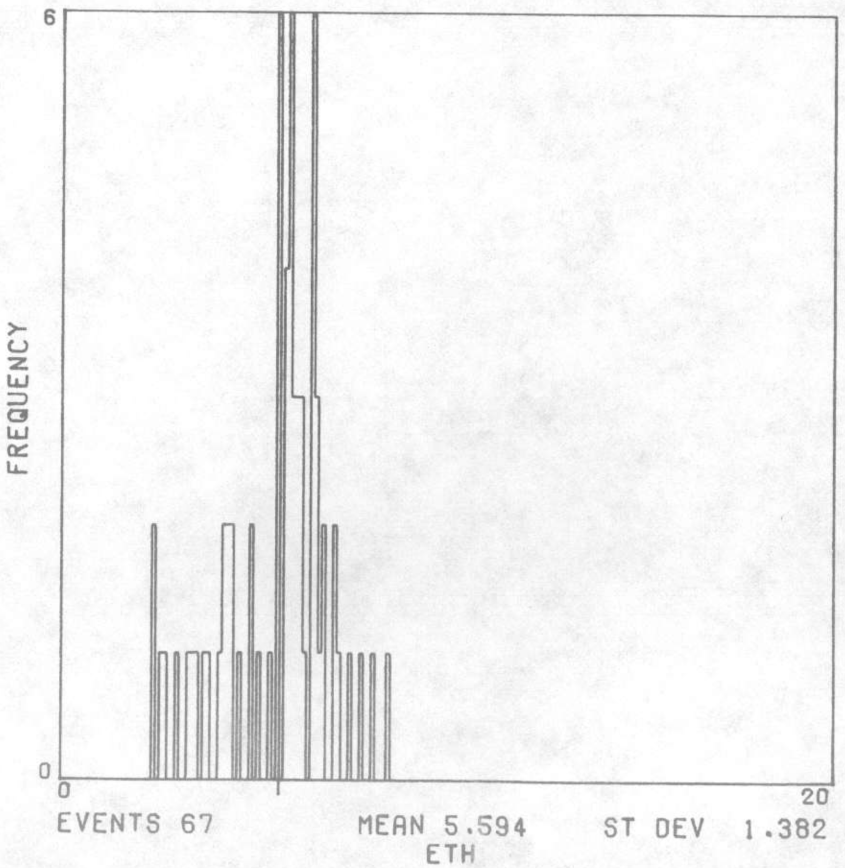
ETH/K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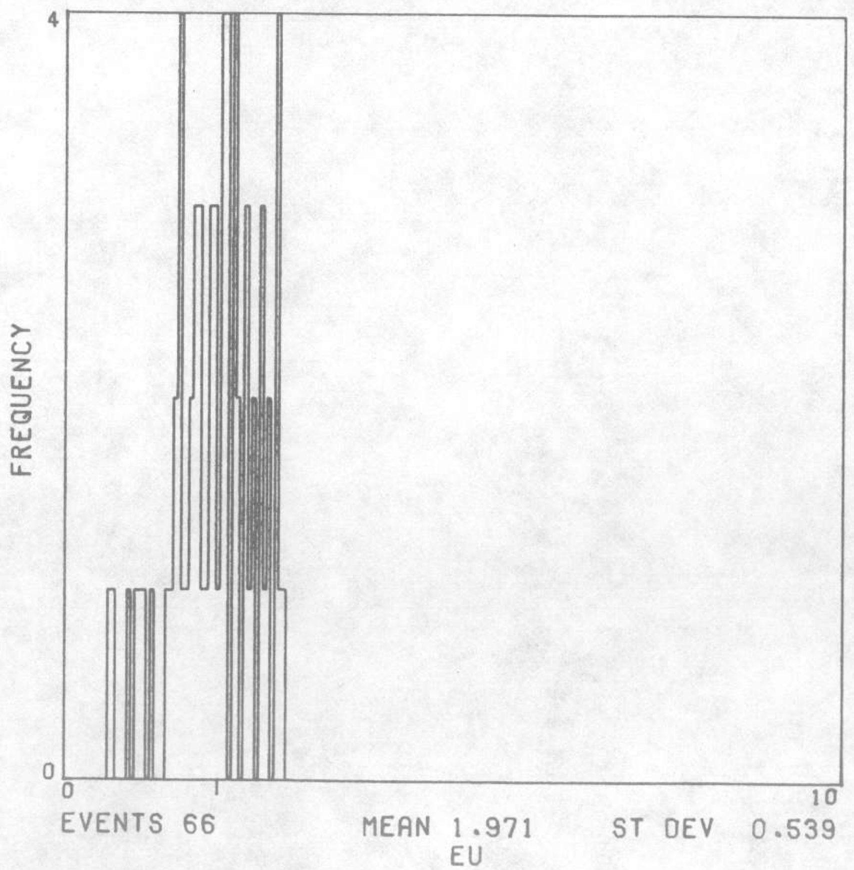
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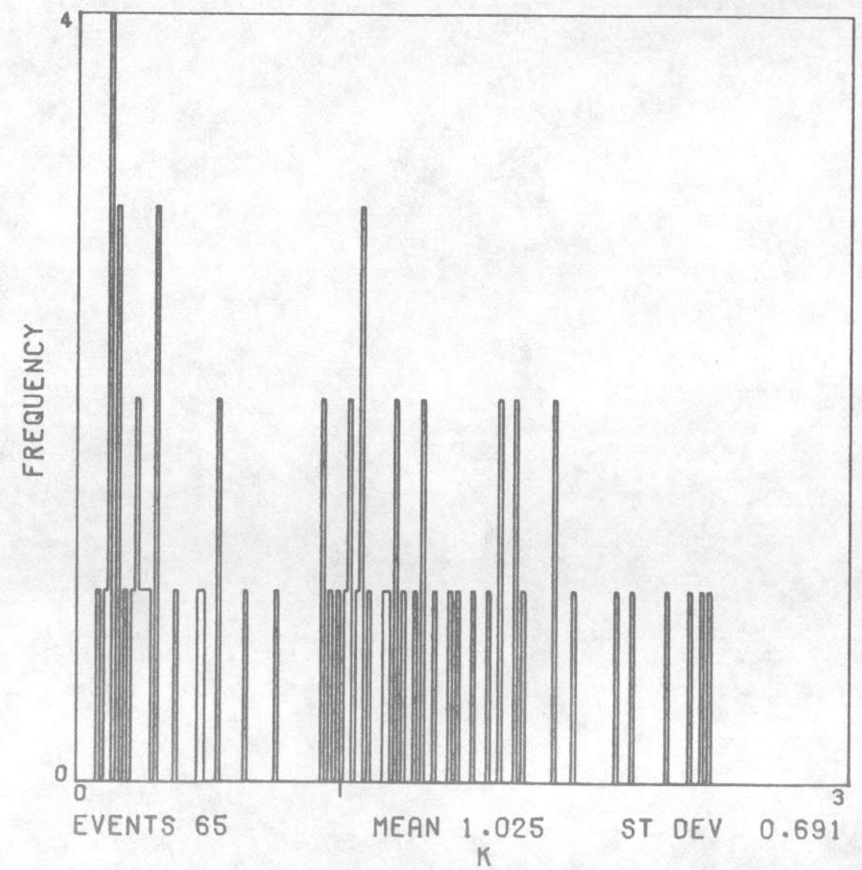
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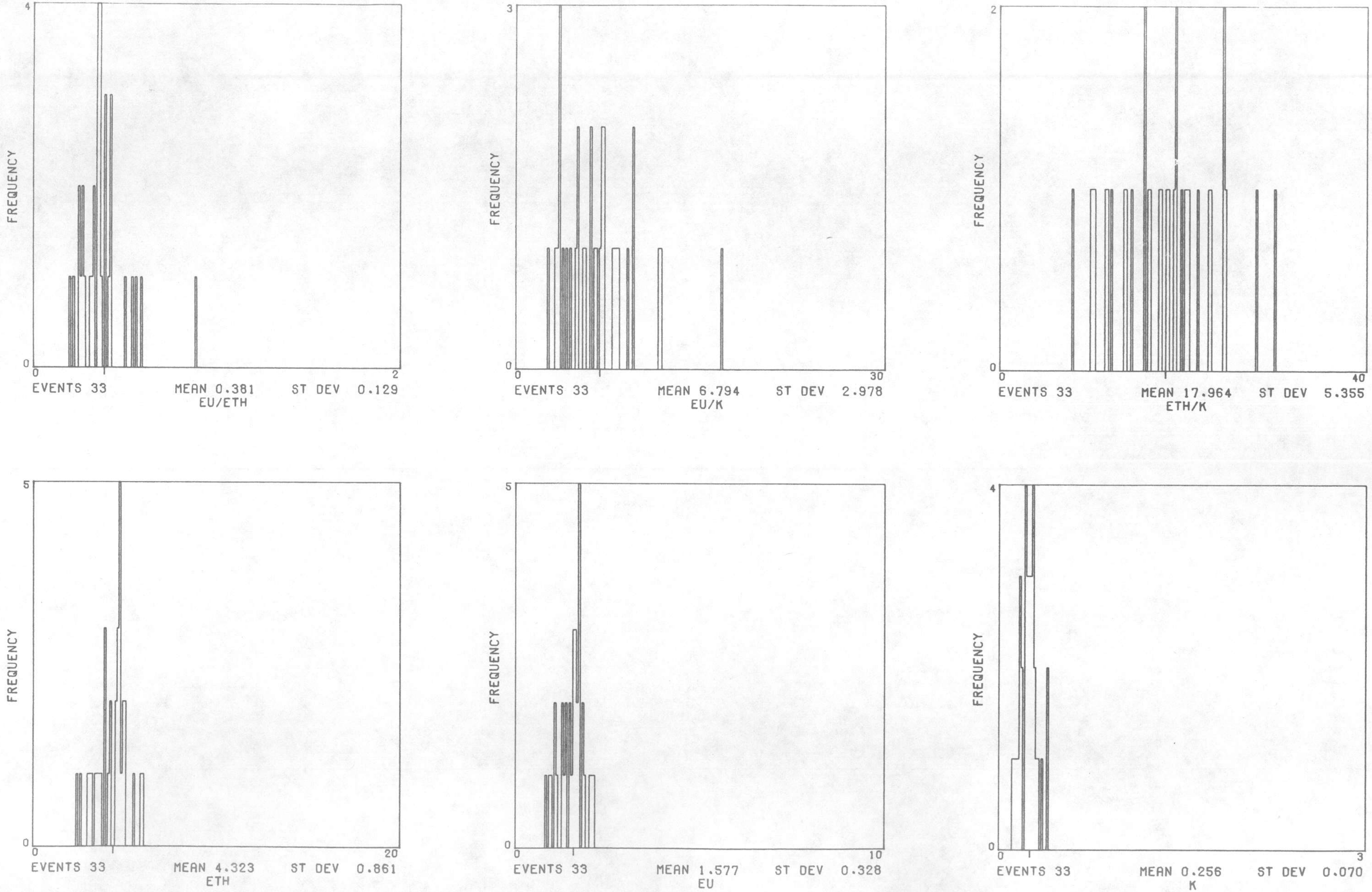
UNIT EKT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EVENTS 33
MEAN 6.794
ST DEV 2.978
EU/K
FREQUENCY
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EVENTS 33
MEAN 17.964
ST DEV 5.355
ETH/K
FREQUENCY
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EVENTS 33
MEAN 4.323
ST DEV 0.861
ETH
FREQUENCY
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EVENTS 33
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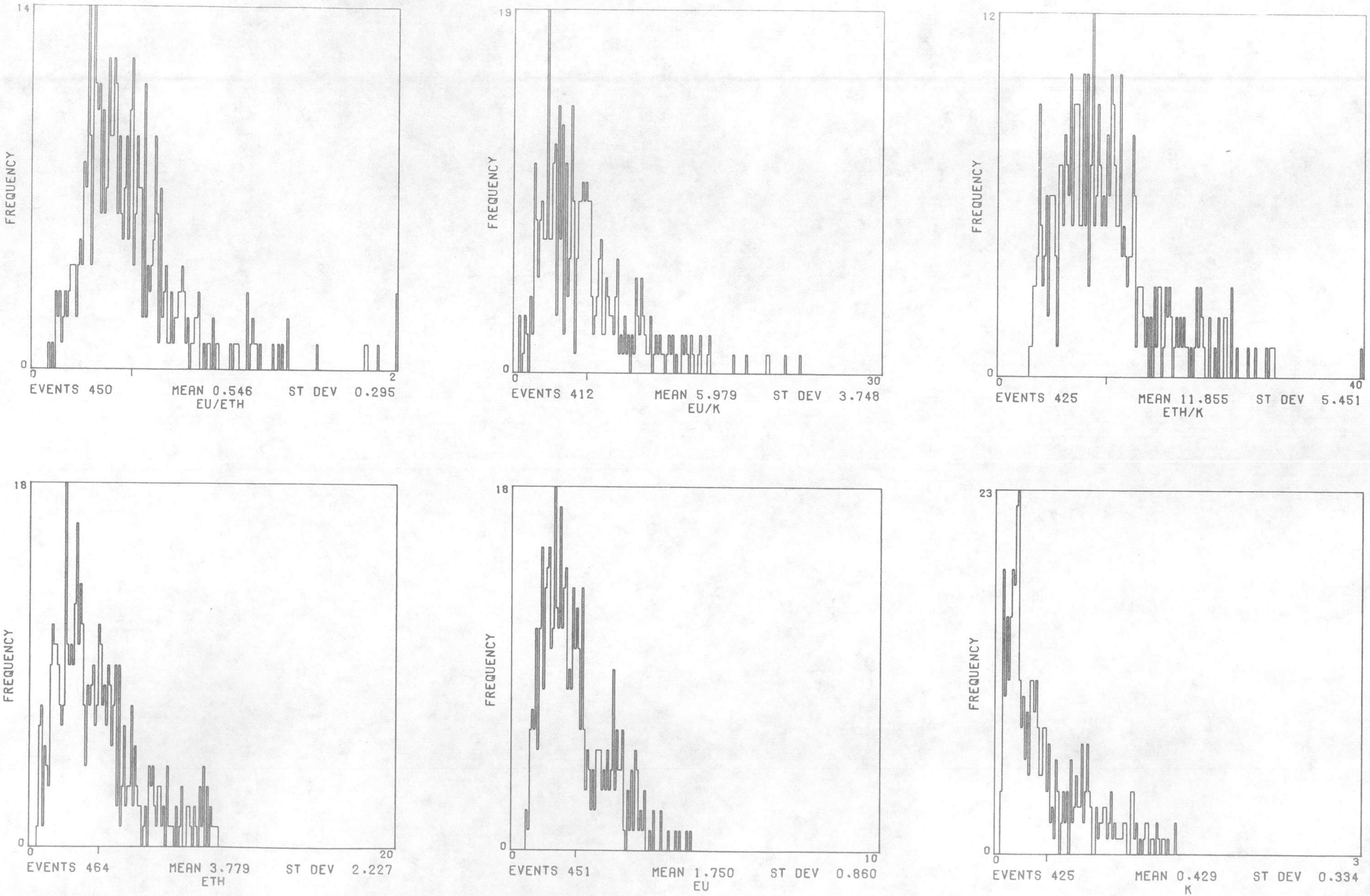
UNIT GT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EVENTS 412
MEAN 5.979
ST DEV 3.748
EU/K
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EVENTS 425
MEAN 11.855
ST DEV 5.451
ETH/K
18
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FREQUENCY
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EVENTS 464
MEAN 3.779
ST DEV 2.227
ETH
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FREQUENCY
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EVENTS 451
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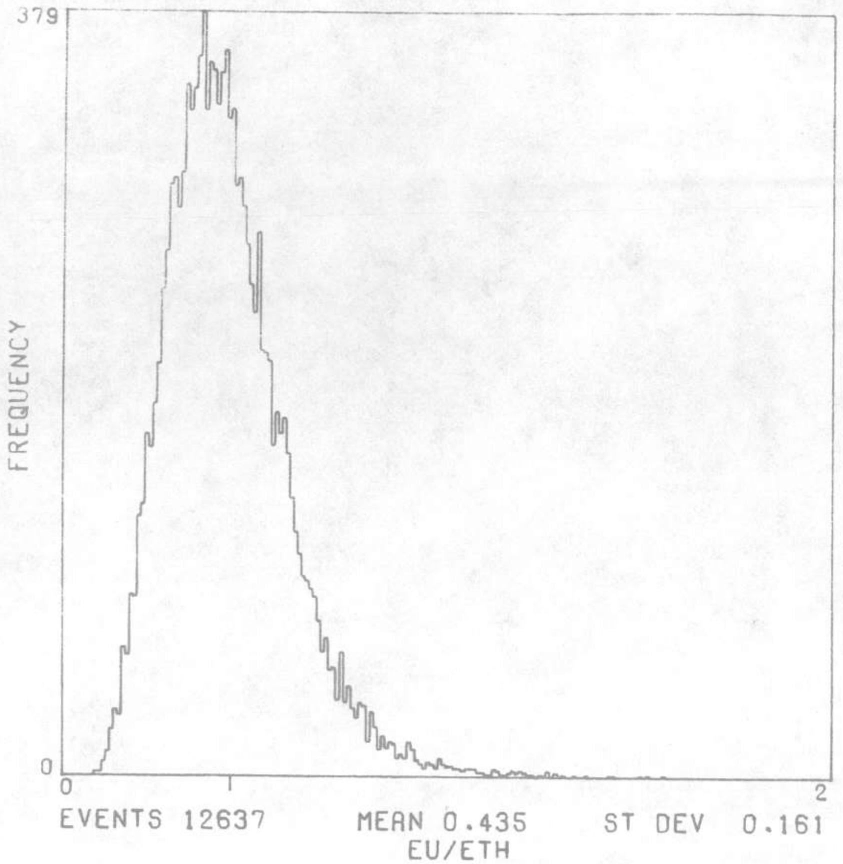
UNIT HS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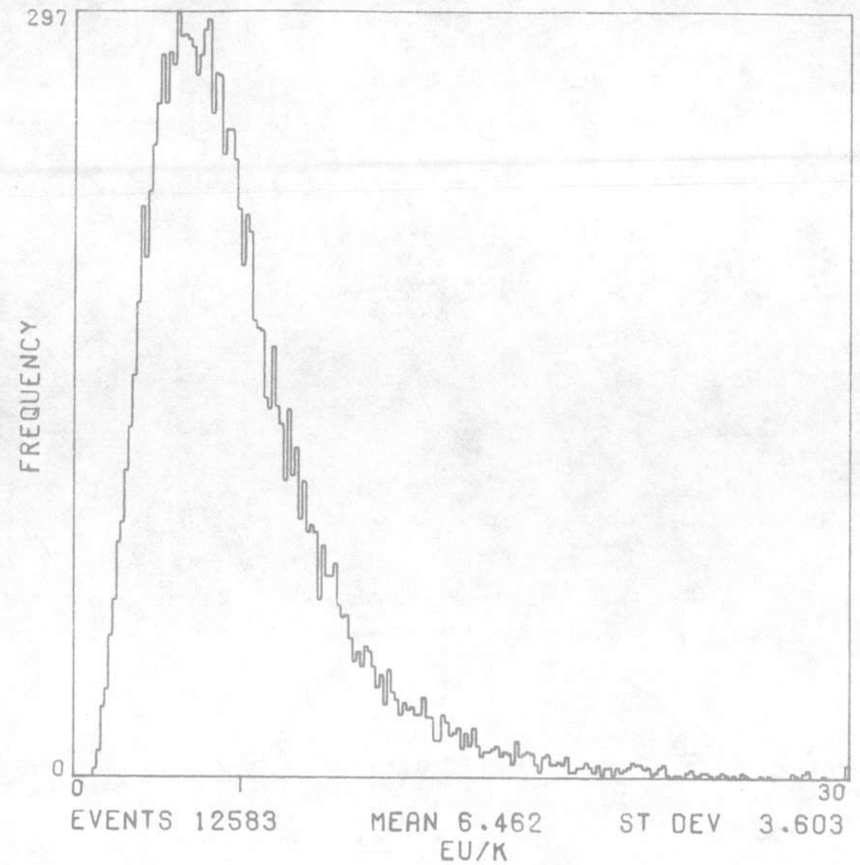
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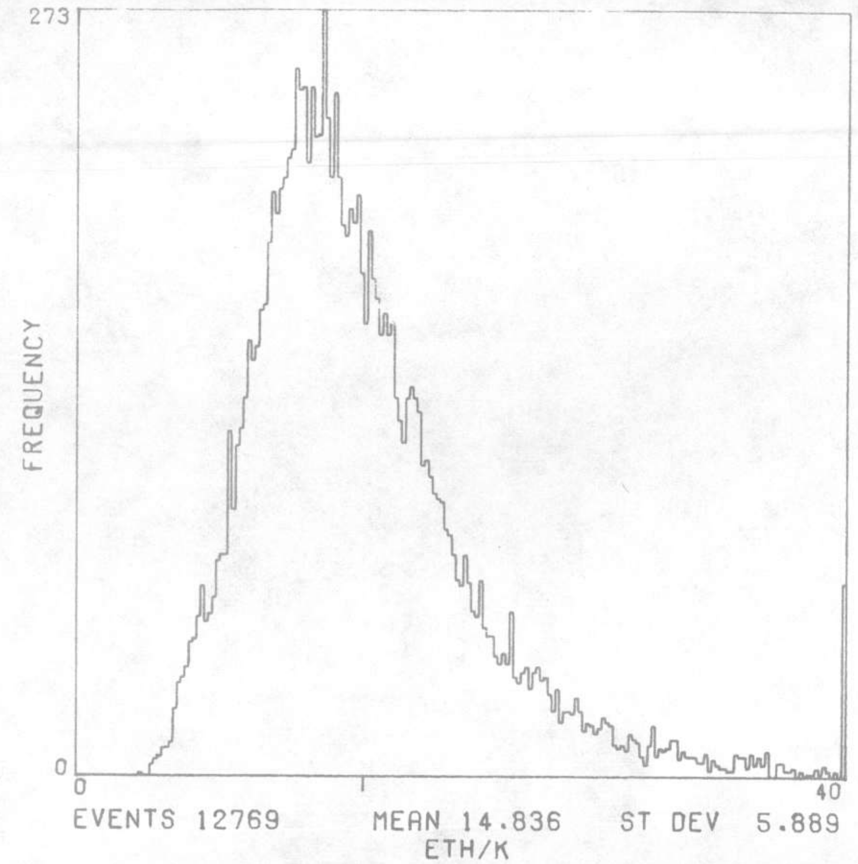
EU/K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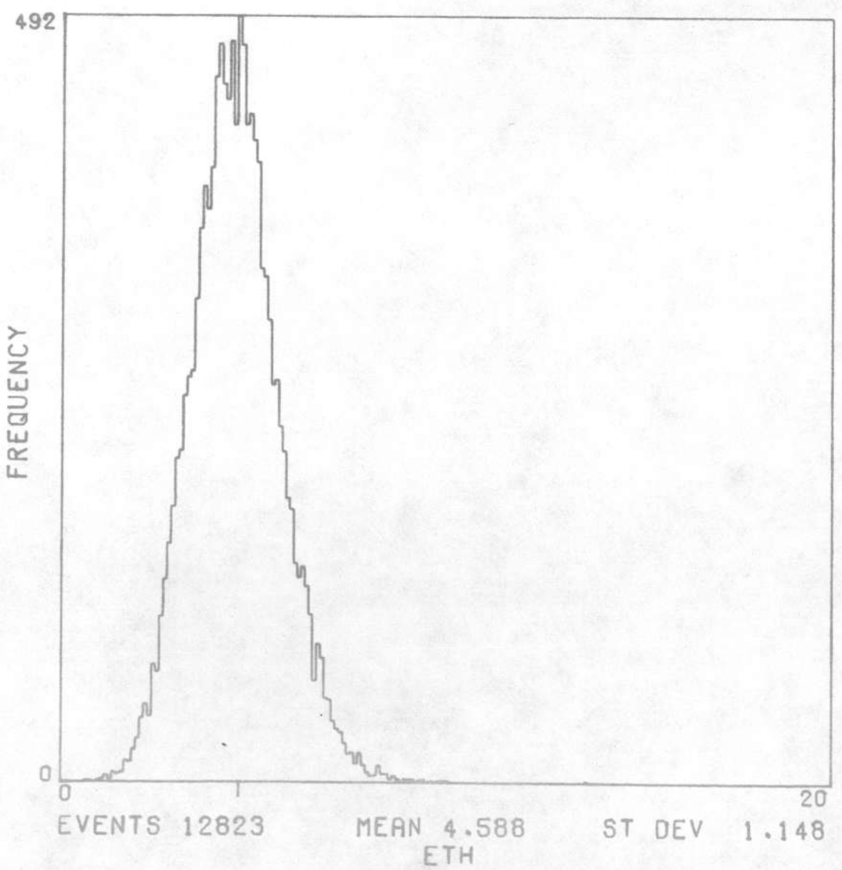
ST DEV 5.889
ETH/K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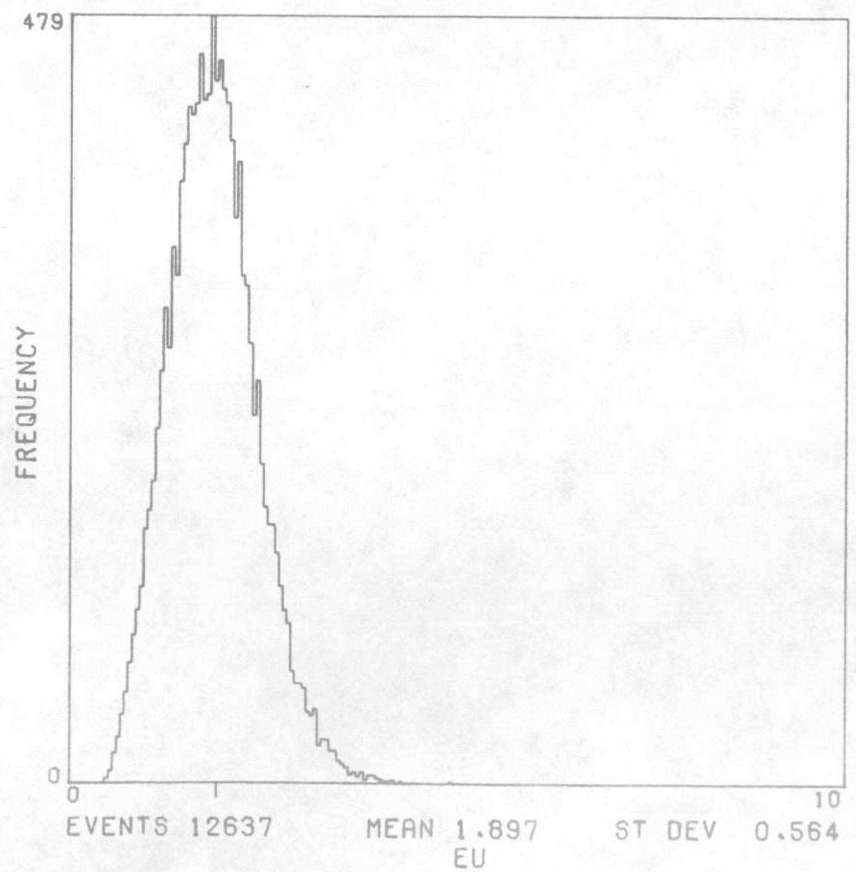
MEAN 4.588
ST DEV 1.148
ETH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EVENTS 12637
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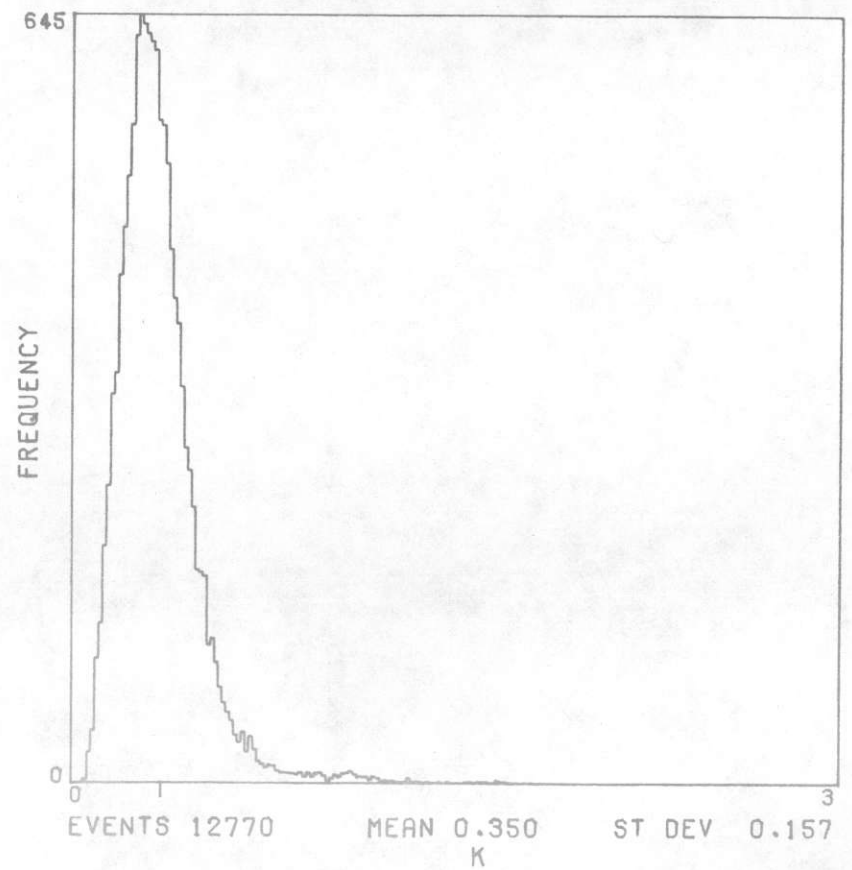
EU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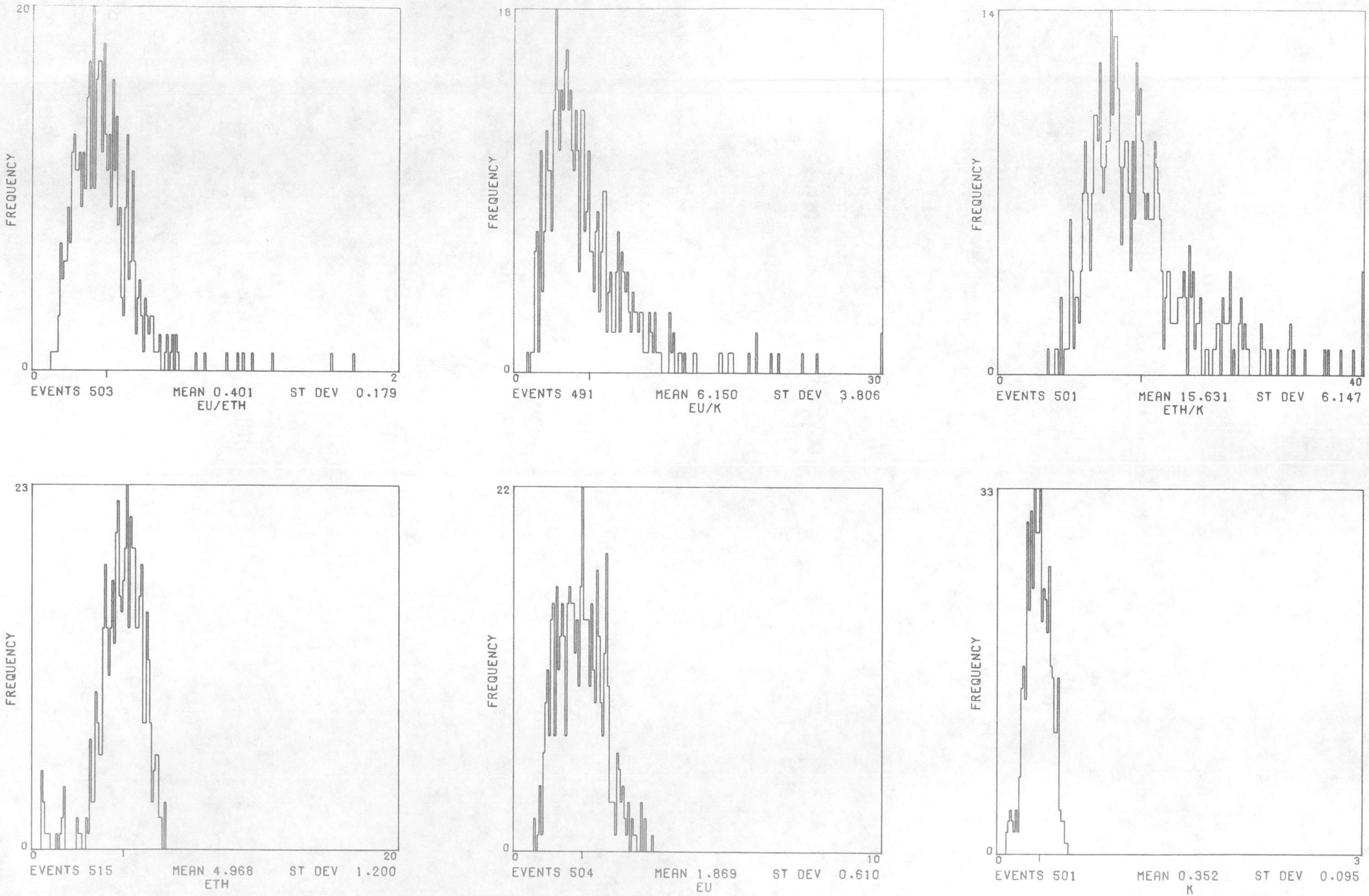
UNIT KCK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FREQUENCY
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EVENTS 503
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FREQUENCY
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EVENTS 491
MEAN 6.150
ST DEV 3.806
EU/K
14
FREQUENCY
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0
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EVENTS 501
MEAN 15.631
ST DEV 6.147
ETH/K
23
FREQUENCY
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20
EVENTS 515
MEAN 4.968
ST DEV 1.200
ETH
22
FREQUENCY
0
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10
EVENTS 504
MEAN 1.869
ST DEV 0.610
EU
33
FREQUENCY
0
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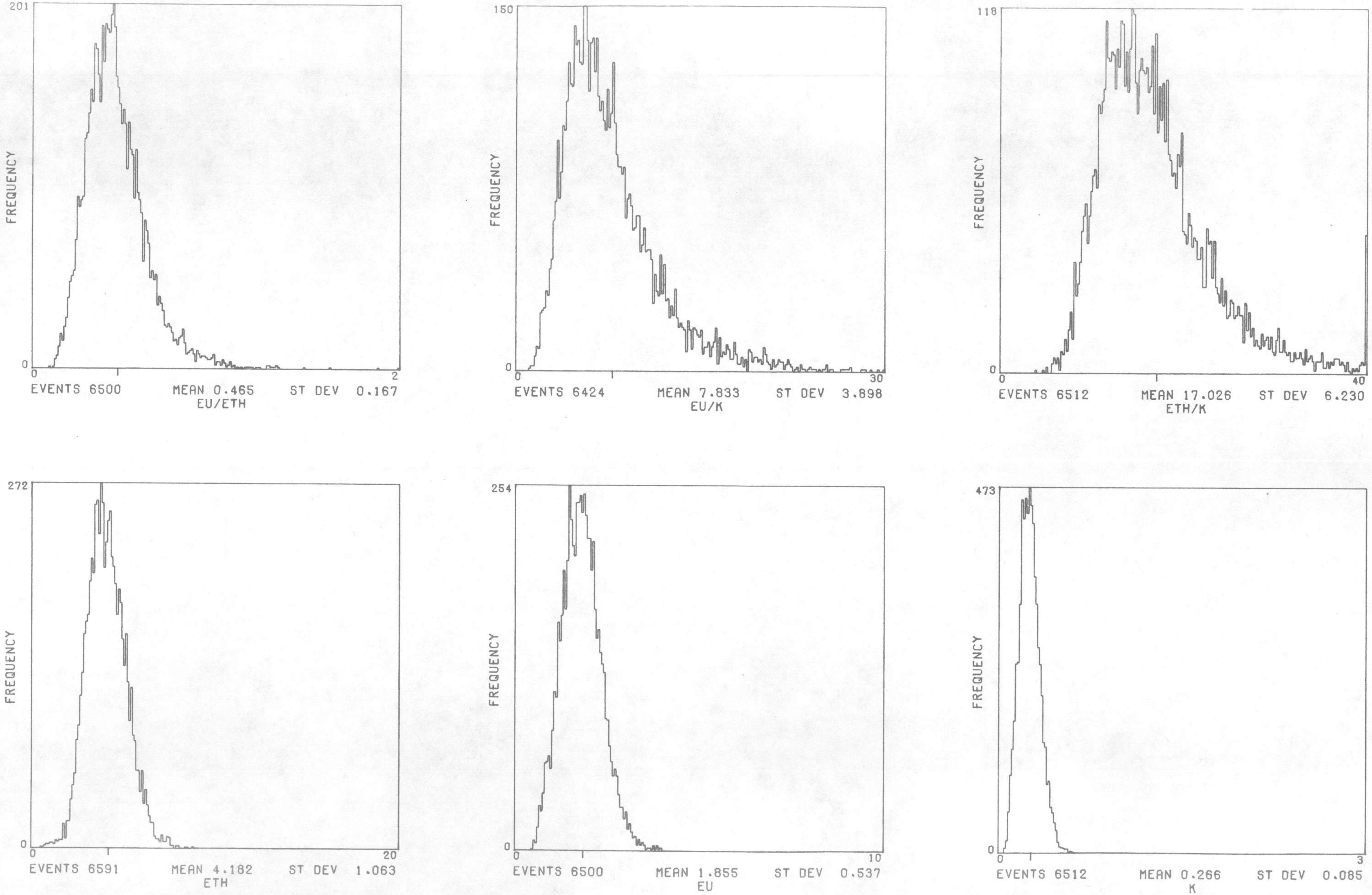
3
EVENTS 501
MEAN 0.352
ST DEV 0.095
K

UNIT KE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EVENTS 6424
MEAN 7.833
ST DEV 3.898
EU/K
118
FREQUENCY
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EVENTS 6512
MEAN 17.026
ST DEV 6.230
ETH/K
272
FREQUENCY
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EVENTS 6591
MEAN 4.182
ST DEV 1.063
ETH
254
FREQUENCY
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0
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EVENTS 6500
MEAN 1.855
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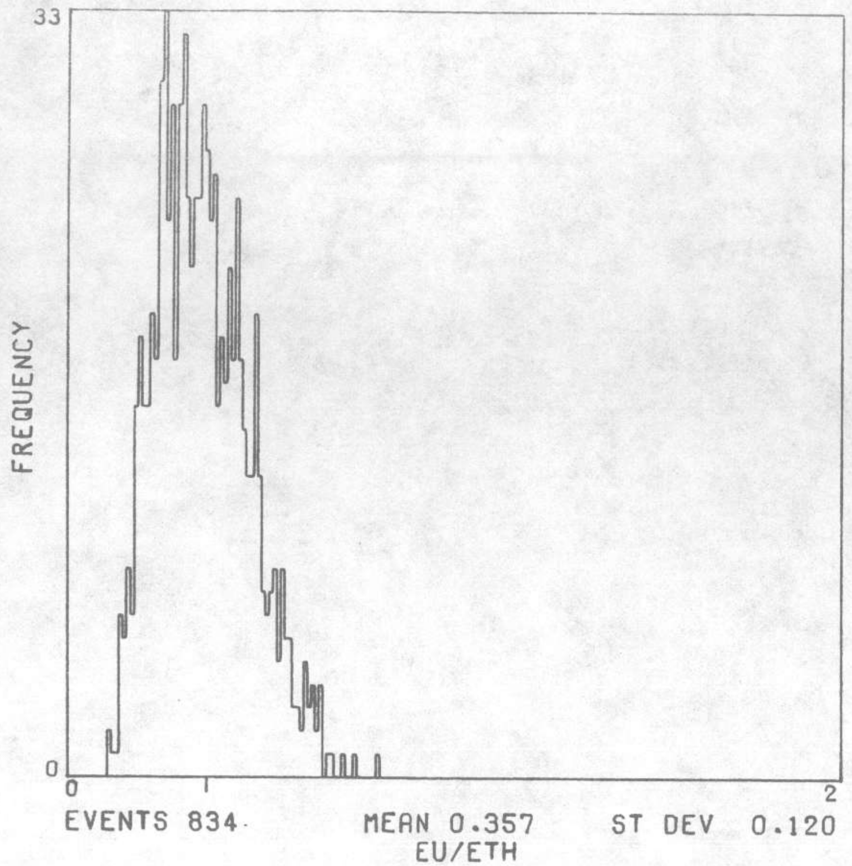
UNIT KG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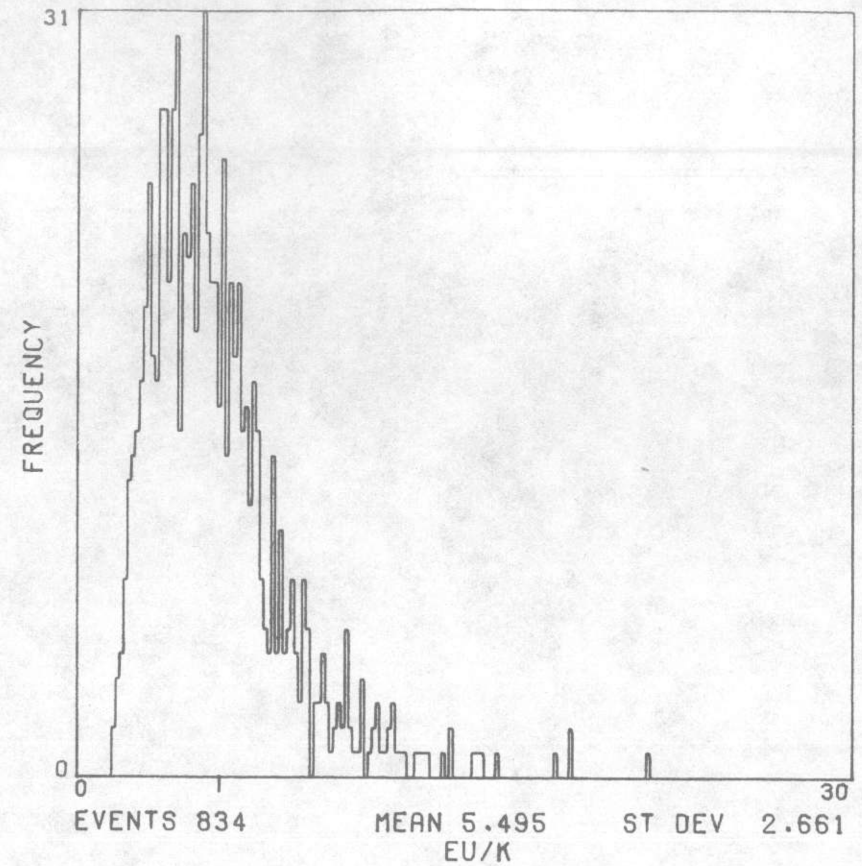
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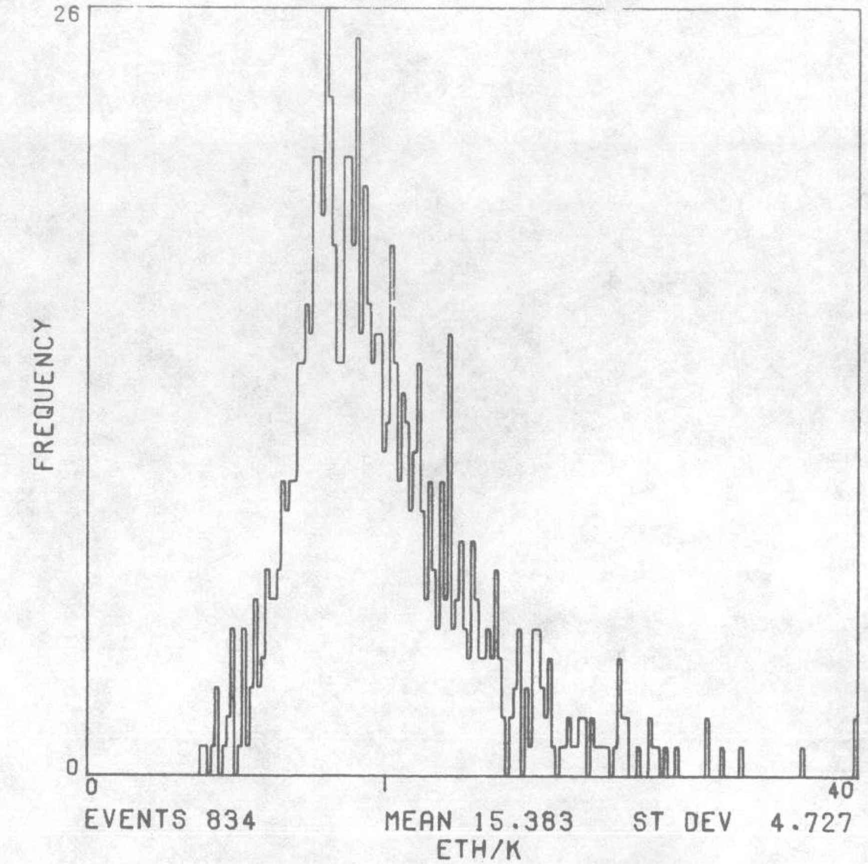
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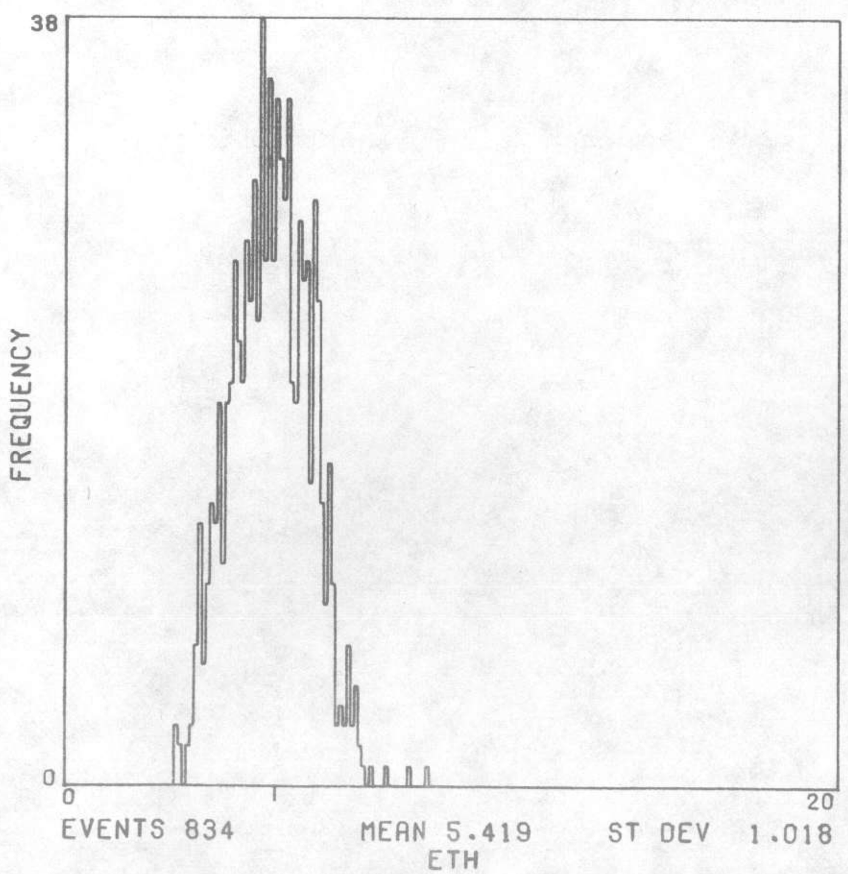
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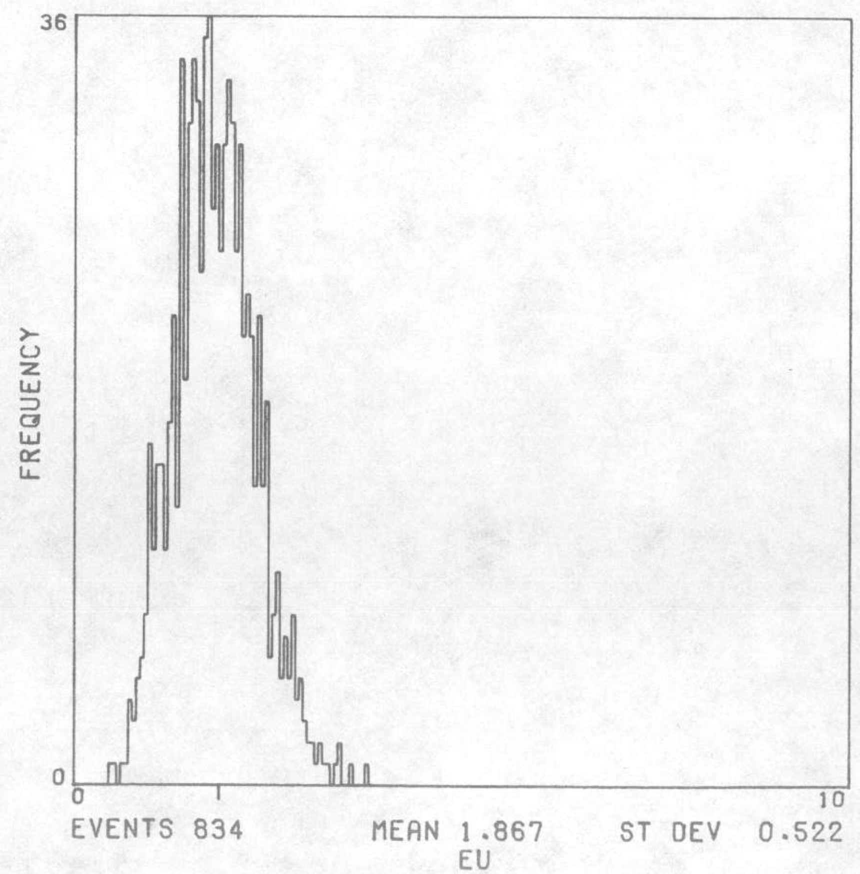
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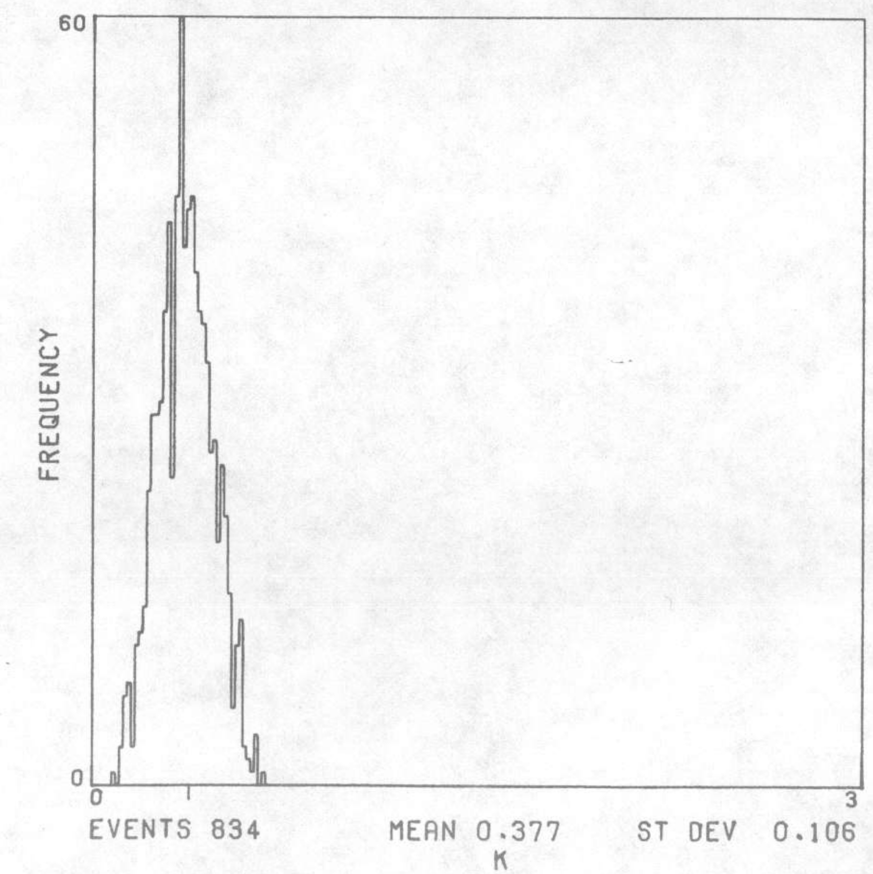
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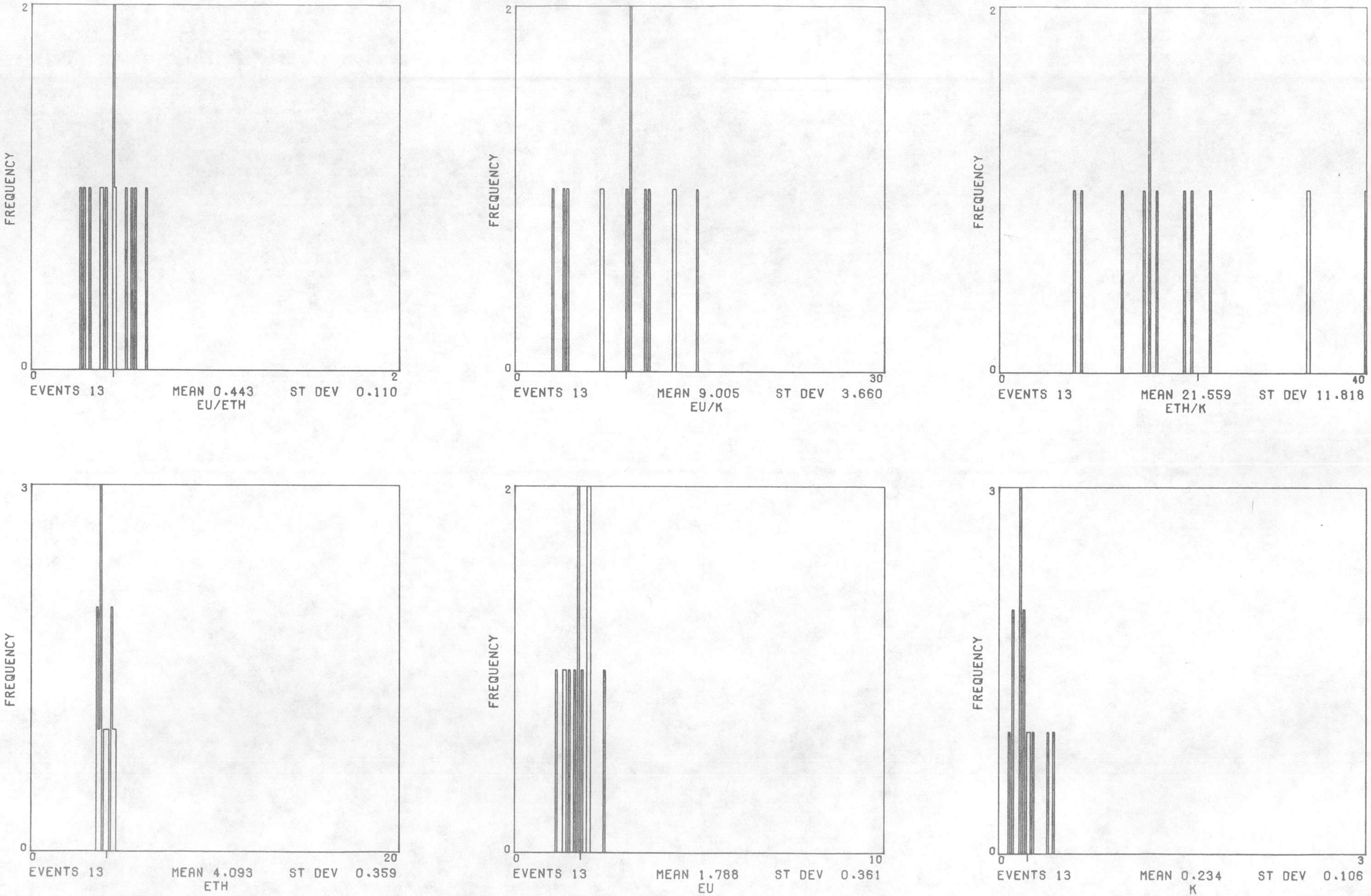
UNIT KM



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EVENTS 13
MEAN 9.005
ST DEV 3.660
EU/K
FREQUENCY
2
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0
40
EVENTS 13
MEAN 21.559
ST DEV 11.818
ETH/K
FREQUENCY
3
0
0
20
EVENTS 13
MEAN 4.093
ST DEV 0.359
ETH
FREQUENCY
2
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10
EVENTS 13
MEAN 1.788
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FREQUENCY
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EVENTS 13
MEAN 0.234
ST DEV 0.106
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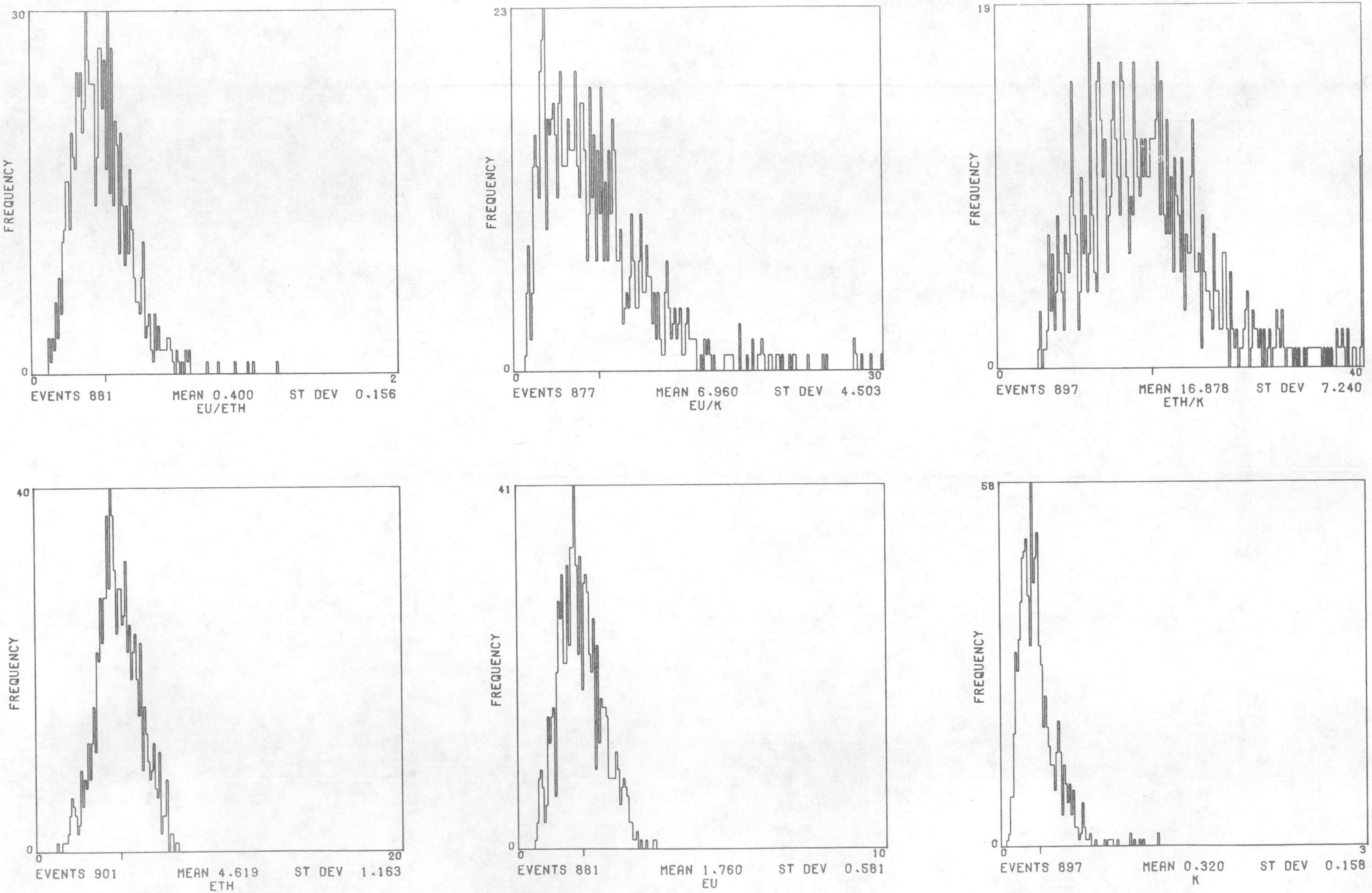
UNIT KP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EVENTS 877
MEAN 6.960
ST DEV 4.503
EU/K
19
FREQUENCY
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EVENTS 897
MEAN 16.878
ST DEV 7.240
ETH/K
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FREQUENCY
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20
EVENTS 901
MEAN 4.619
ST DEV 1.163
ETH
41
FREQUENCY
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EVENTS 881
MEAN 1.760
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ST DEV 0.158
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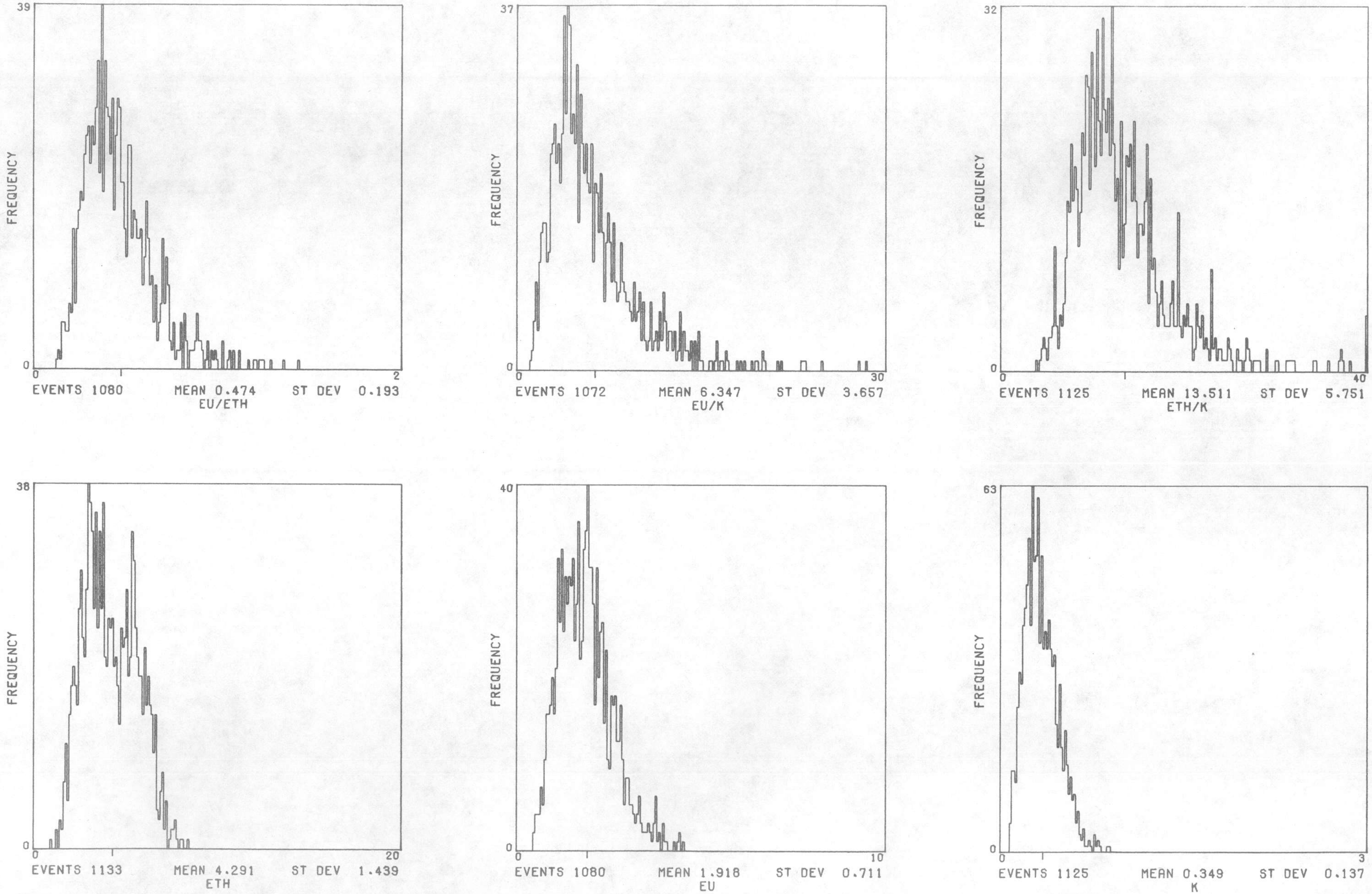
UNIT KT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FREQUENCY
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EVENTS 1072
MEAN 6.347
ST DEV 3.657
EU/K
32
FREQUENCY
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0
40
EVENTS 1125
MEAN 13.511
ST DEV 5.751
ETH/K
38
FREQUENCY
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EVENTS 1133
MEAN 4.291
ST DEV 1.439
ETH
40
FREQUENCY
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EVENTS 1080
MEAN 1.918
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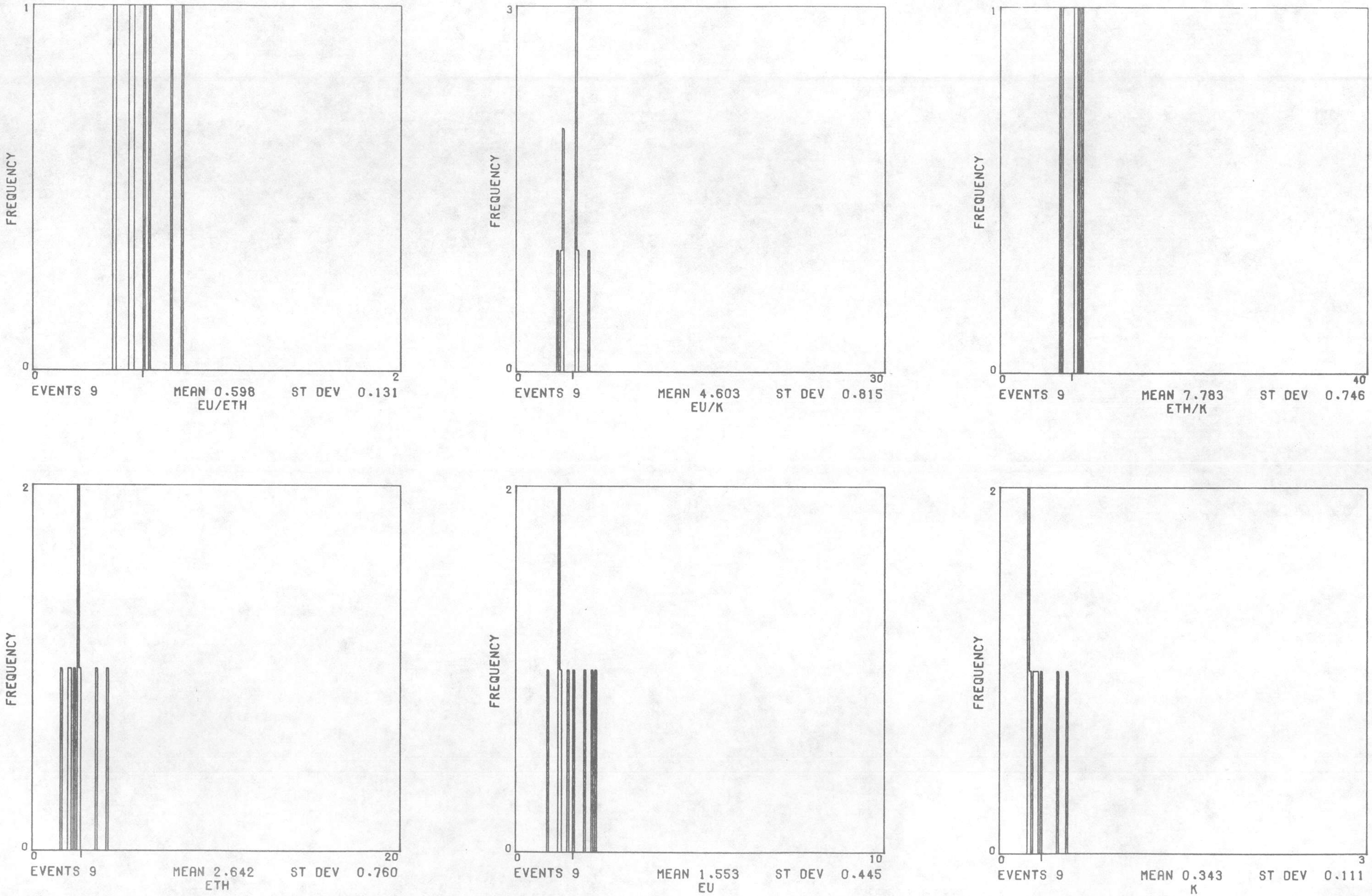
UNIT MB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EVENTS 9 MEAN 4.603 ST DEV 0.815
EU/K
EVENTS 9 MEAN 7.783 ST DEV 0.746
ETH/K
EVENTS 9 MEAN 2.642 ST DEV 0.760
ETH
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EU
EVENTS 9 MEAN 0.343 ST DEV 0.111
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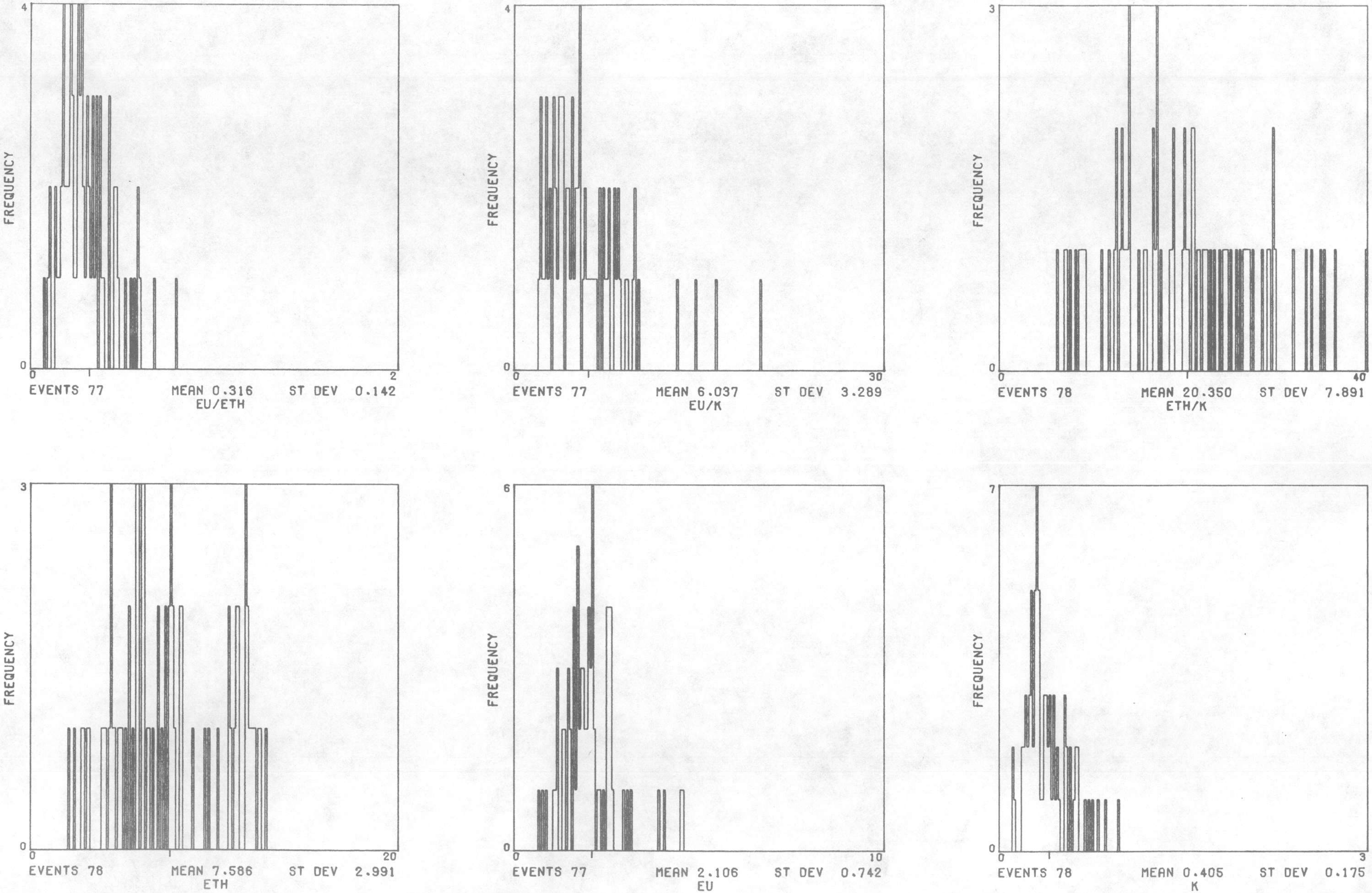
UNIT MC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MEAN 0.316
ST DEV 0.142
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EVENTS 77
MEAN 6.037
ST DEV 3.289
EU/K
EVENTS 78
MEAN 20.350
ST DEV 7.891
ETH/K
EVENTS 78
MEAN 7.586
ST DEV 2.991
ETH
EVENTS 77
MEAN 2.106
ST DEV 0.742
EU
EVENTS 78
MEAN 0.405
ST DEV 0.175
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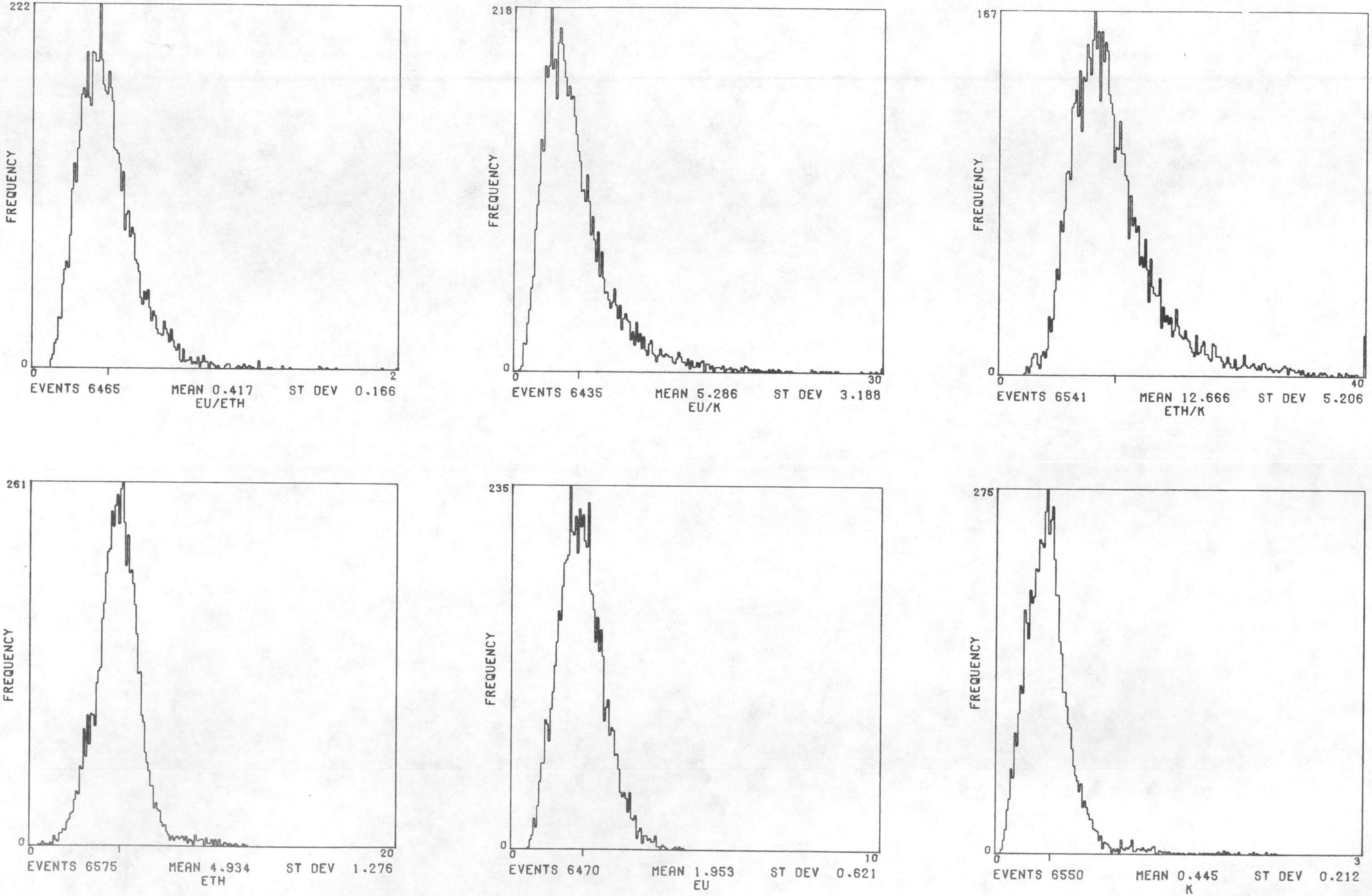
UNIT MDA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EVENTS 6435
MEAN 5.286
ST DEV 3.188
EU/K
167
FREQUENCY
0
40
EVENTS 6541
MEAN 12.666
ST DEV 5.206
ETH/K
261
FREQUENCY
0
20
EVENTS 6575
MEAN 4.934
ST DEV 1.276
ETH
235
FREQUENCY
0
10
EVENTS 6470
MEAN 1.953
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EU
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EVENTS 6550
MEAN 0.445
ST DEV 0.212
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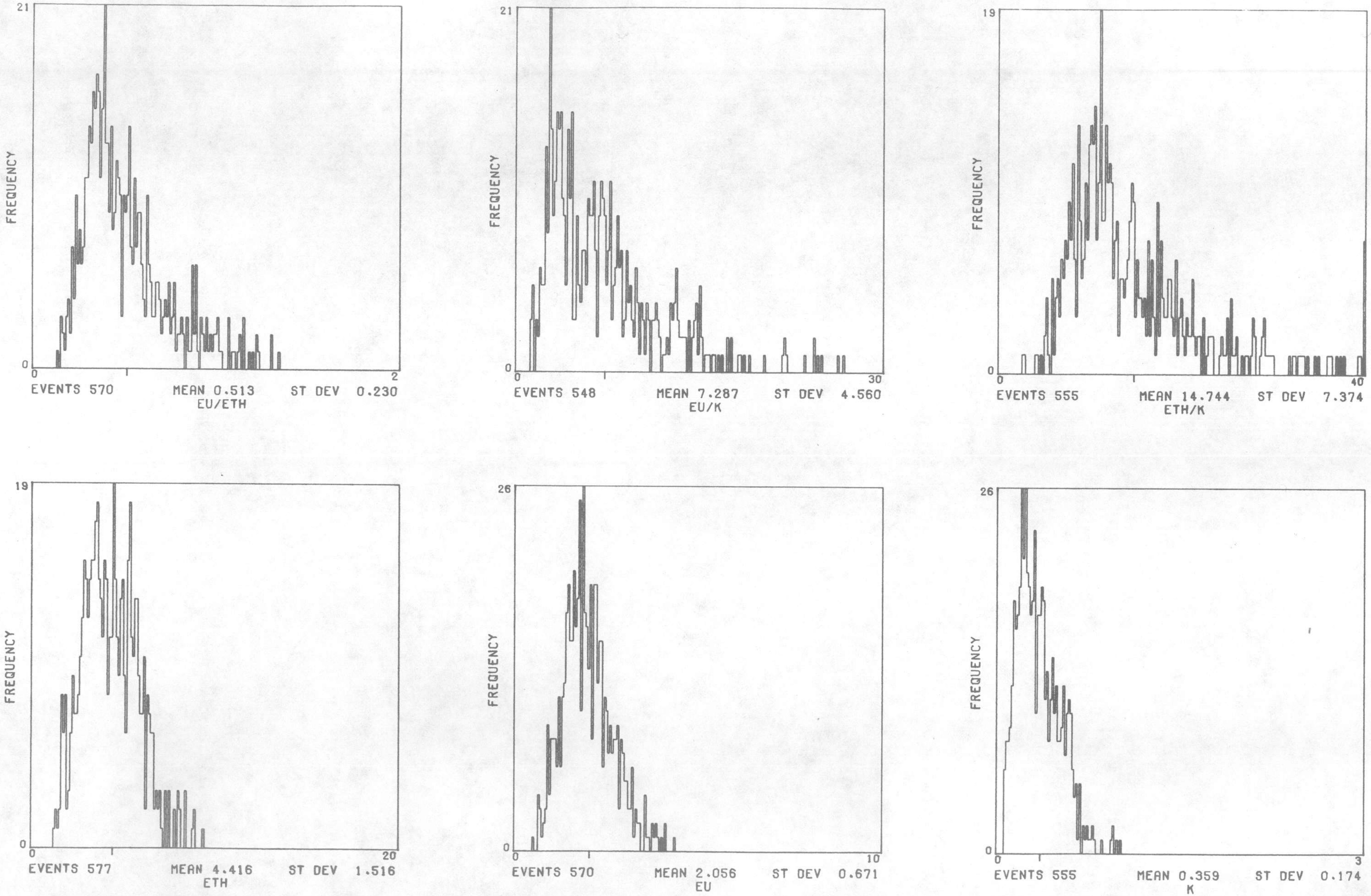
UNIT MF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EVENTS 570
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ST DEV 0.230
EU/ETH
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FREQUENCY
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EVENTS 548
MEAN 7.287
ST DEV 4.560
EU/K
19
FREQUENCY
0
0
40
EVENTS 555
MEAN 14.744
ST DEV 7.374
ETH/K
19
FREQUENCY
0
0
20
EVENTS 577
MEAN 4.416
ST DEV 1.516
ETH
26
FREQUENCY
0
0
10
EVENTS 570
MEAN 2.056
ST DEV 0.671
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26
FREQUENCY
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EVENTS 555
MEAN 0.359
ST DEV 0.174
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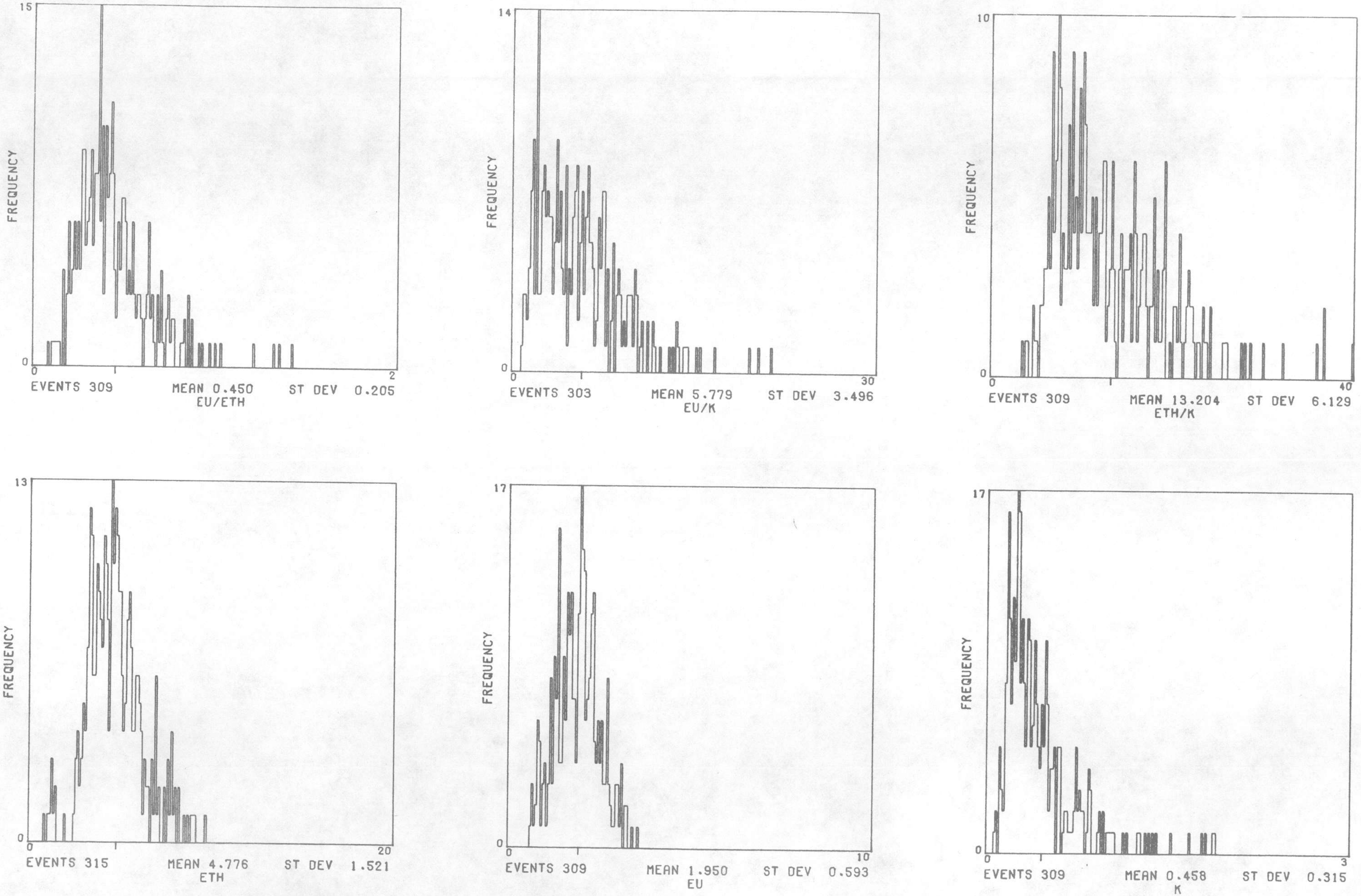
UNIT MFM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EU/K
ST DEV 3.496
10
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0
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EVENTS 309
MEAN 13.204
ETH/K
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0
0
20
EVENTS 315
MEAN 4.776
ETH
ST DEV 1.521
17
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10
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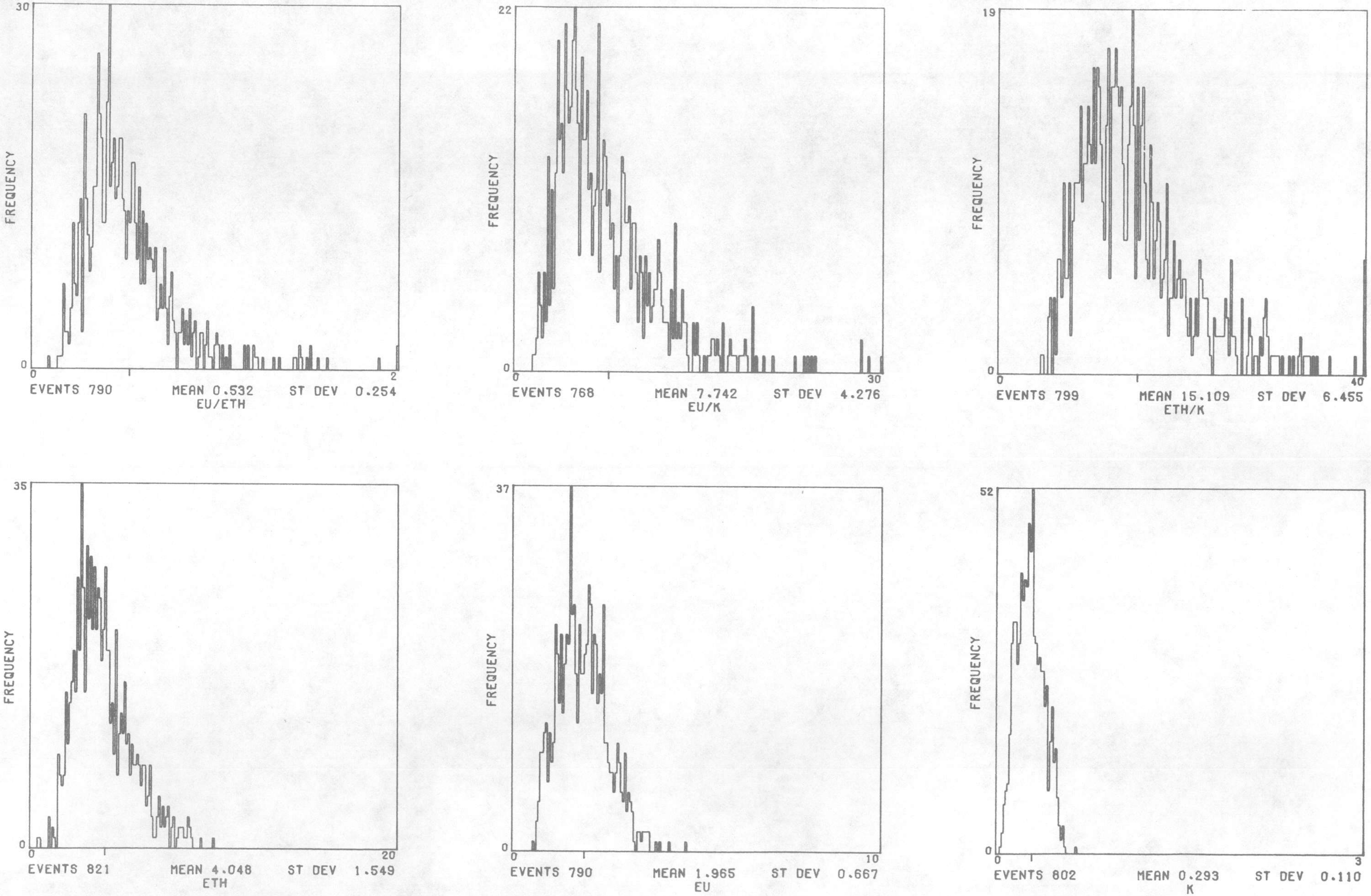
UNIT MFP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FREQUENCY
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30
EVENTS 768
MEAN 7.742
ST DEV 4.276
EU/K
19
FREQUENCY
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0
40
EVENTS 799
MEAN 15.109
ST DEV 6.455
ETH/K
35
FREQUENCY
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20
EVENTS 821
MEAN 4.048
ST DEV 1.549
ETH
37
FREQUENCY
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10
EVENTS 790
MEAN 1.965
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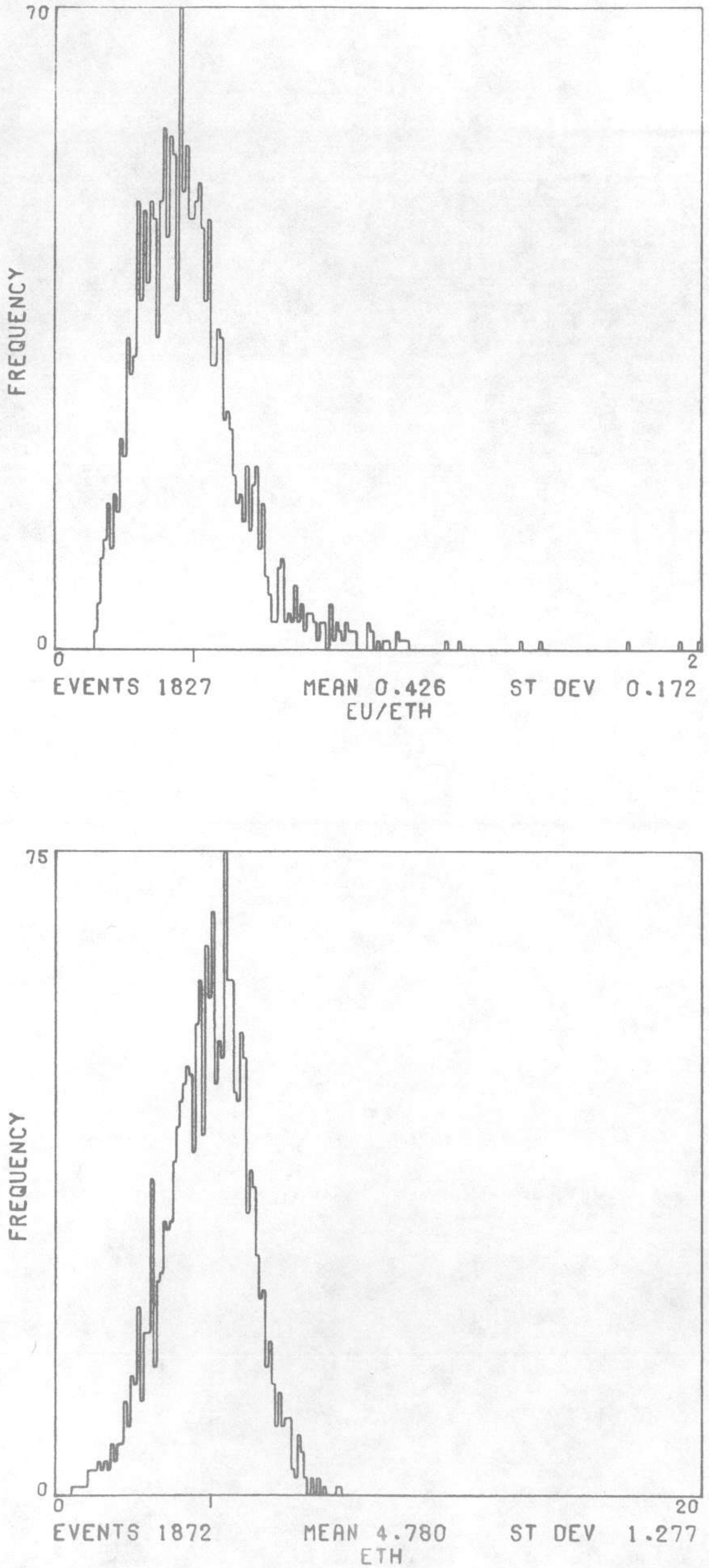
UNIT MHS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MEAN 4.707
ST DEV 2.437
EU/K
56
FREQUENCY
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EVENTS 1868
MEAN 11.238
ST DEV 4.159
ETH/K
75
FREQUENCY
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EVENTS 1872
MEAN 4.780
ST DEV 1.277
ETH
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EVENTS 1827
MEAN 1.934
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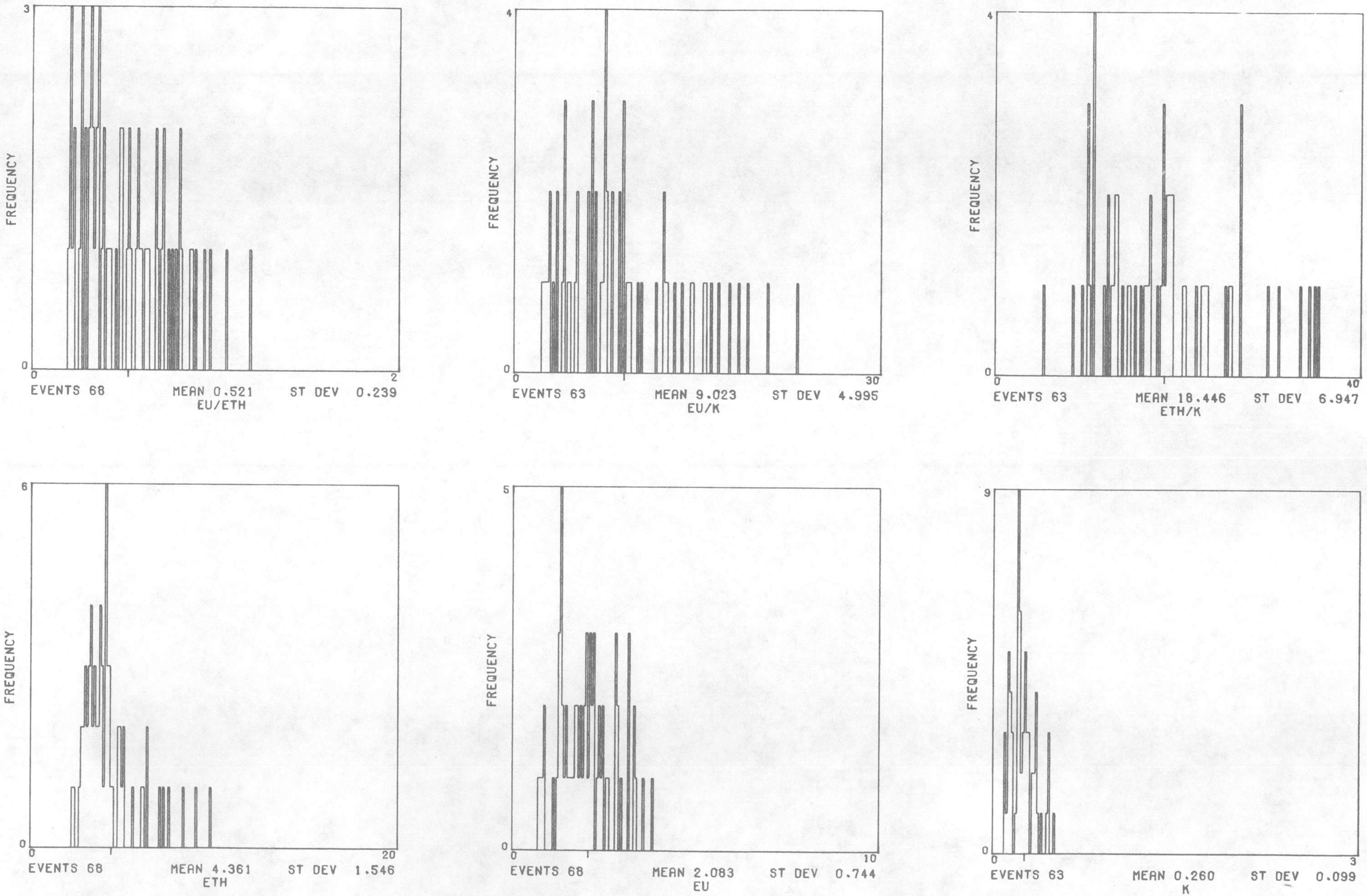
UNIT MP



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EVENTS 63
MEAN 9.023
ST DEV 4.995
EU/K
EVENTS 63
MEAN 18.446
ST DEV 6.947
ETH/K
EVENTS 68
MEAN 4.361
ST DEV 1.546
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MEAN 2.083
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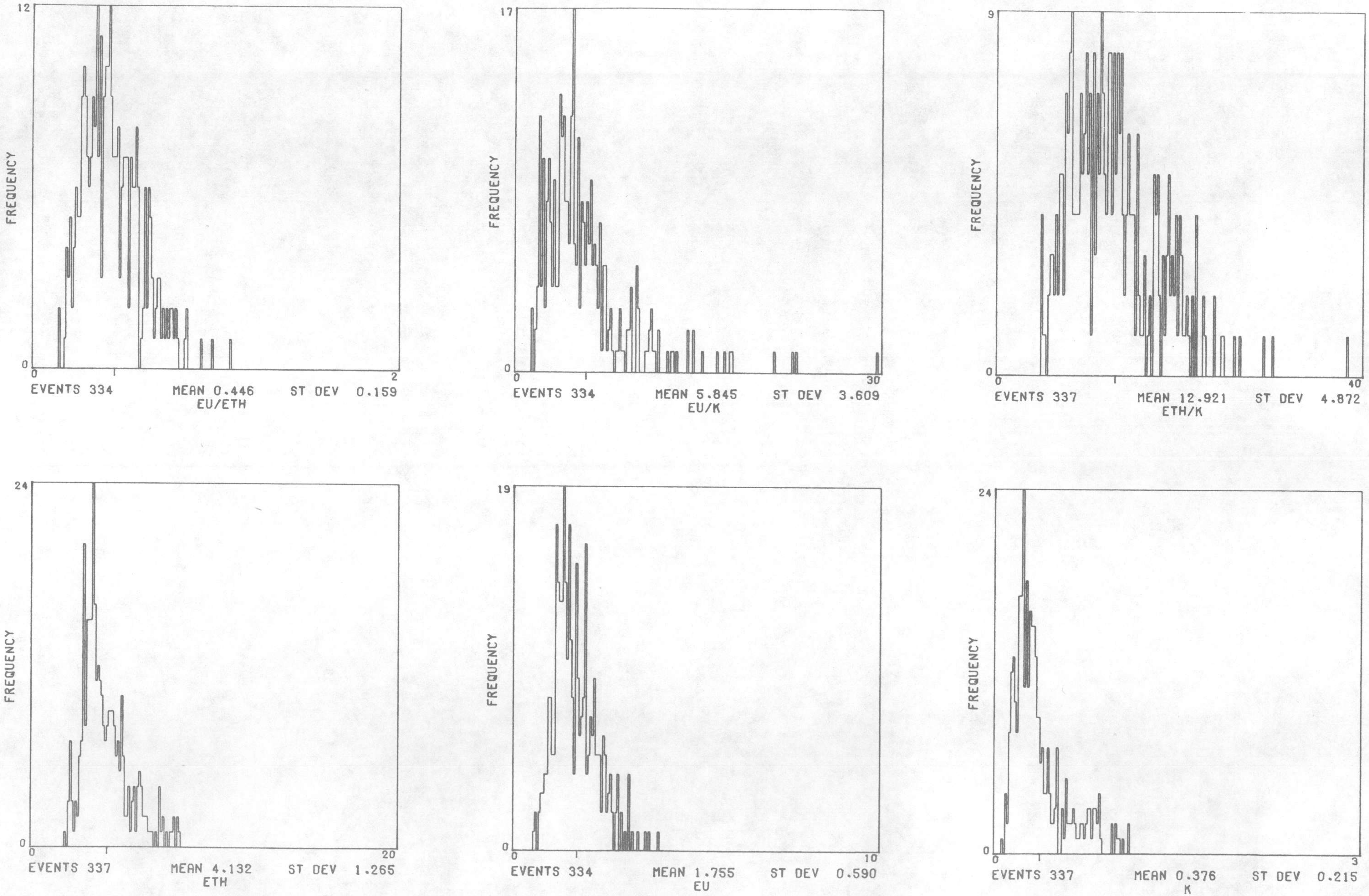
UNIT MPM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EVENTS 334
MEAN 5.845
ST DEV 3.609
EU/K
9
FREQUENCY
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EVENTS 337
MEAN 12.921
ST DEV 4.872
ETH/K
24
FREQUENCY
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0
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EVENTS 337
MEAN 4.132
ST DEV 1.265
ETH
19
FREQUENCY
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EVENTS 334
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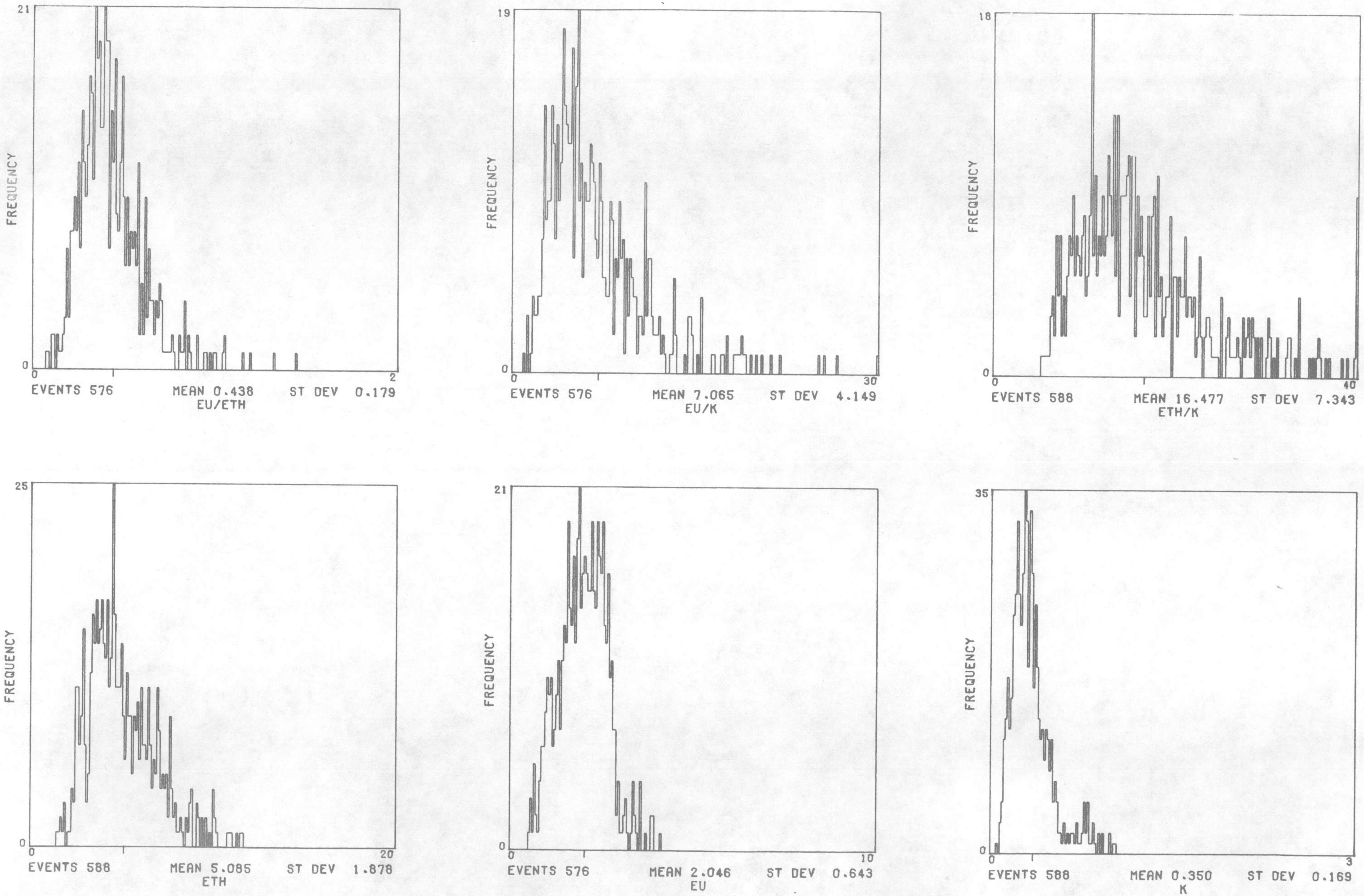
UNIT MPP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EVENTS 576
MEAN 7.065
ST DEV 4.149
EU/K
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FREQUENCY
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EVENTS 588
MEAN 16.477
ST DEV 7.343
ETH/K
25
FREQUENCY
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20
EVENTS 588
MEAN 5.085
ST DEV 1.878
ETH
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EVENTS 576
MEAN 2.046
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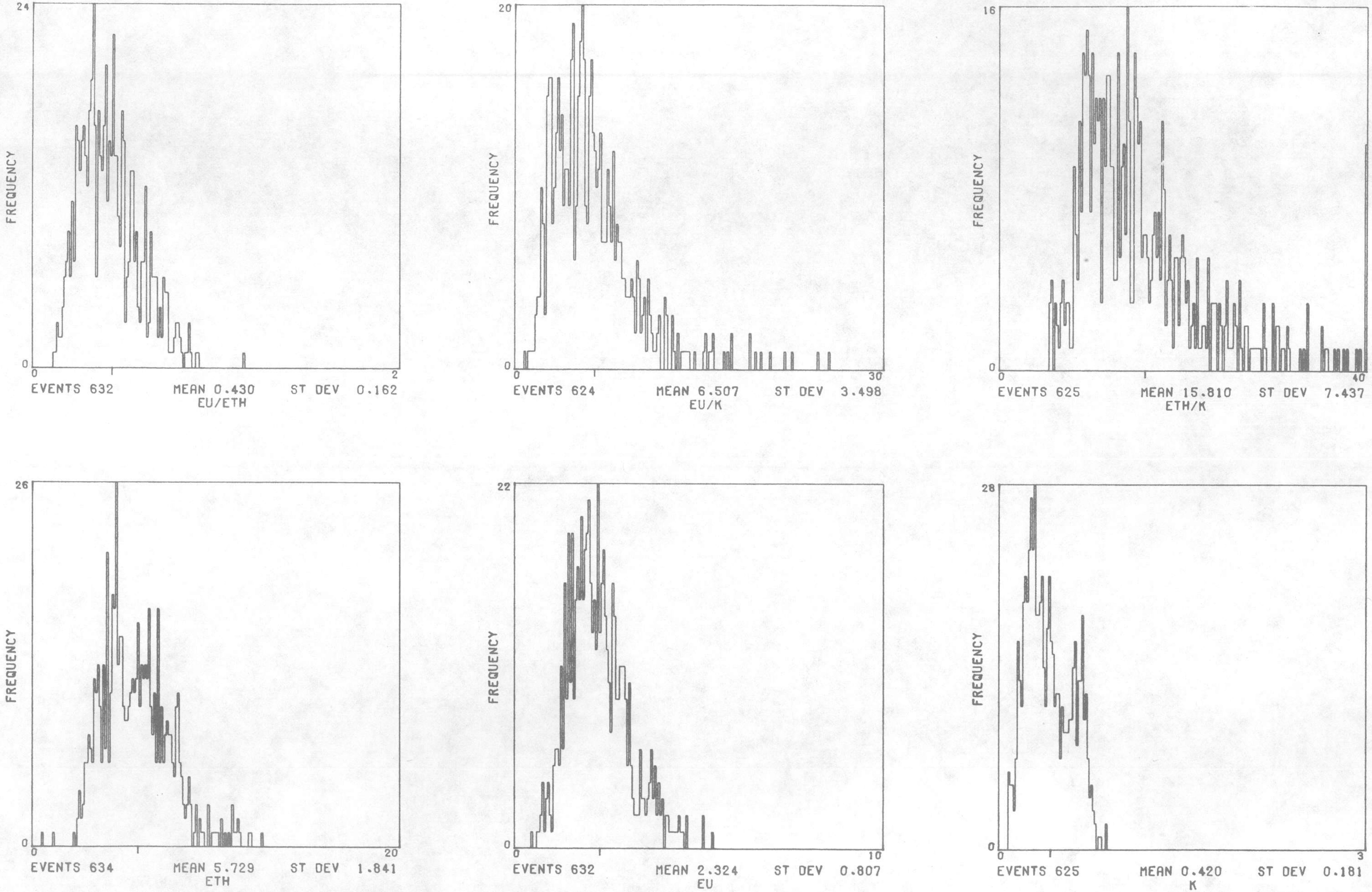
UNIT MTM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EVENTS 624
MEAN 6.507
ST DEV 3.498
EU/K
16
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EVENTS 625
MEAN 15.810
ST DEV 7.437
ETH/K
26
FREQUENCY
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EVENTS 634
MEAN 5.729
ST DEV 1.841
ETH
22
FREQUENCY
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EVENTS 632
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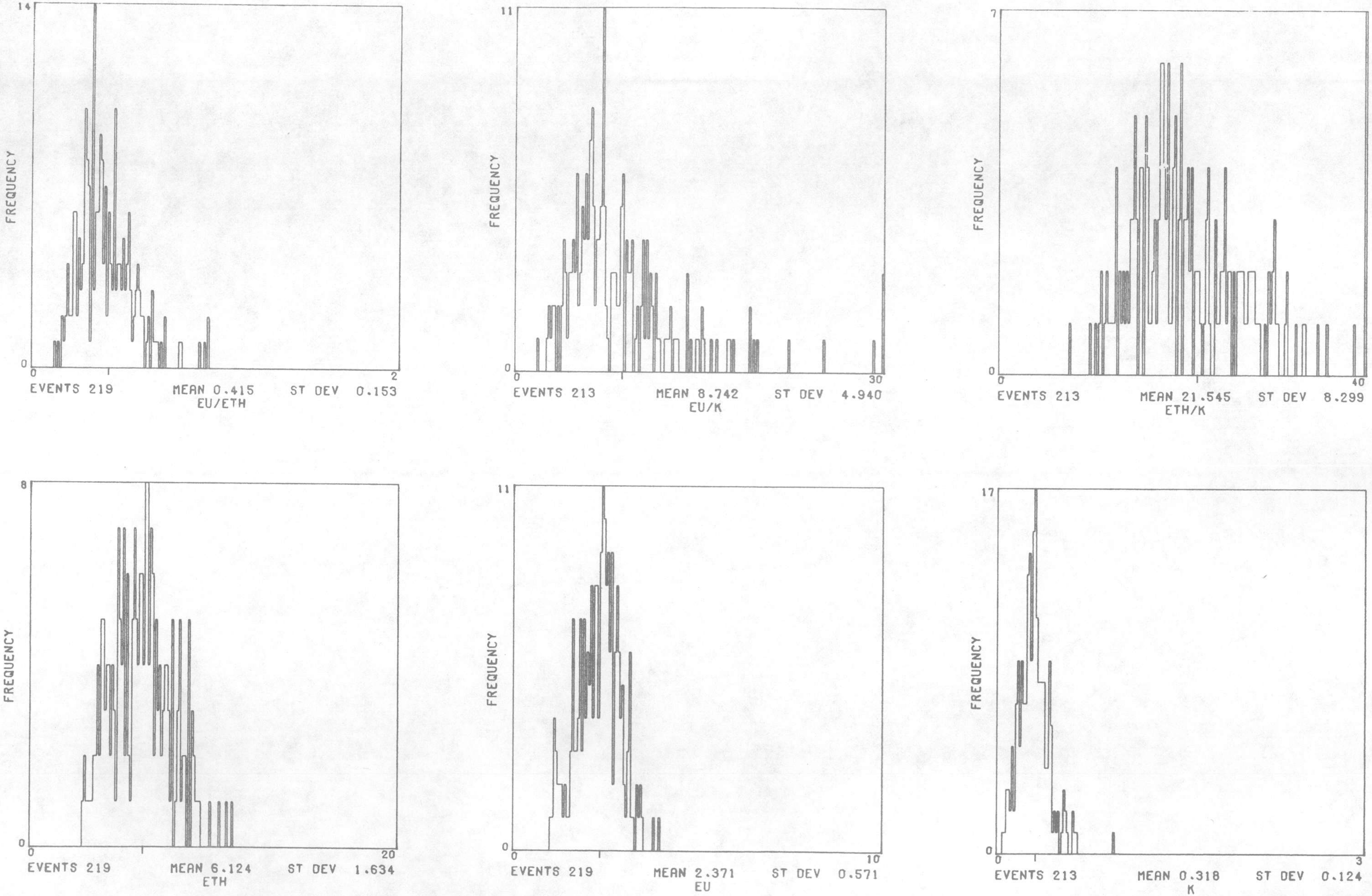
UNIT 0C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MEAN 0.415
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FREQUENCY
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EVENTS 213
MEAN 8.742
ST DEV 4.940
EU/K
7
FREQUENCY
0
0
40
EVENTS 213
MEAN 21.545
ST DEV 8.299
ETH/K
8
FREQUENCY
0
0
20
EVENTS 219
MEAN 6.124
ST DEV 1.634
ETH
11
FREQUENCY
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EVENTS 219
MEAN 2.371
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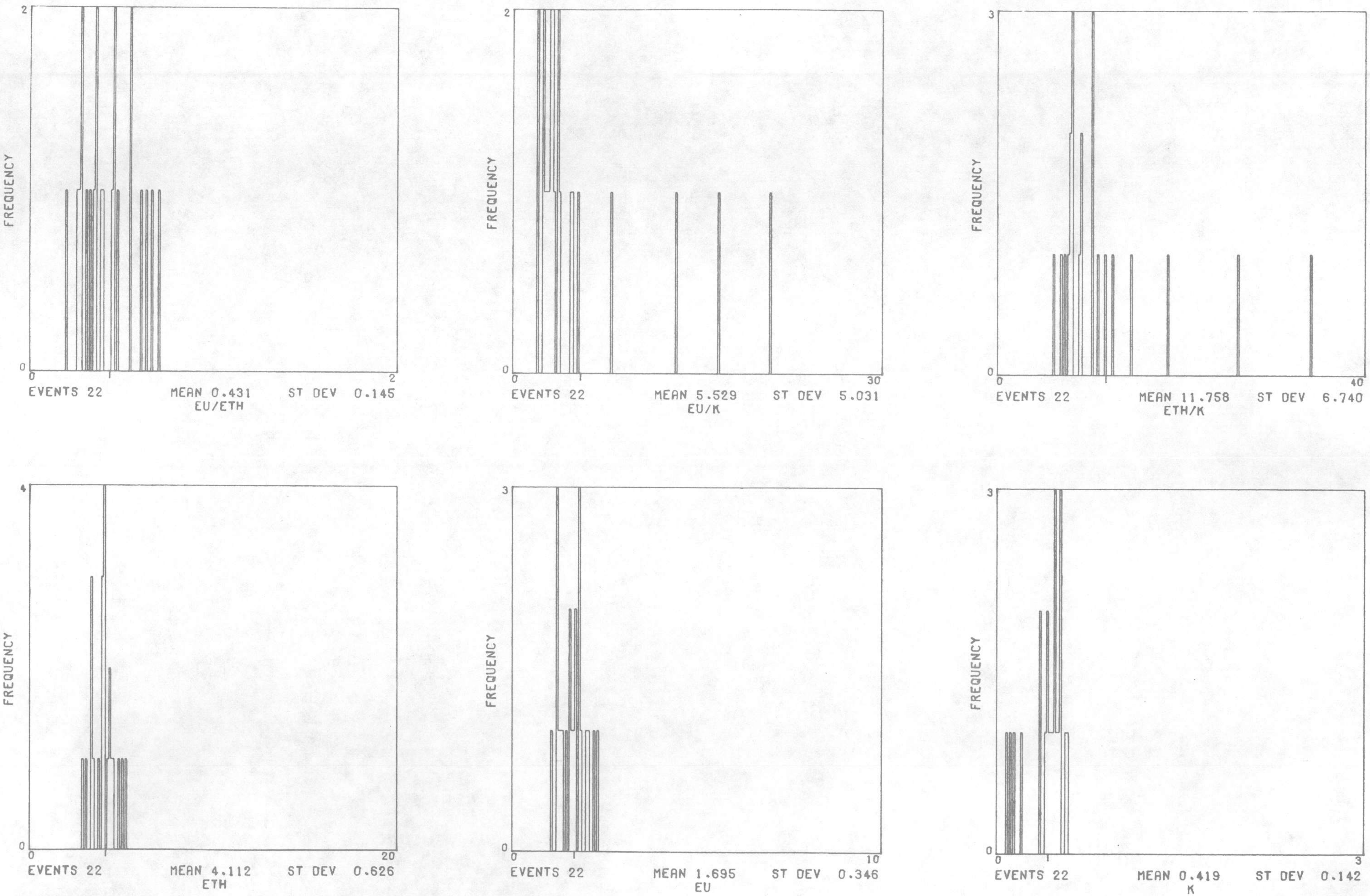
UNIT 0CBF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EVENTS 22
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ST DEV 5.031
EU/K
FREQUENCY
EVENTS 22
MEAN 11.758
ST DEV 6.740
ETH/K
FREQUENCY
EVENTS 22
MEAN 4.112
ST DEV 0.626
ETH
FREQUENCY
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ST DEV 0.346
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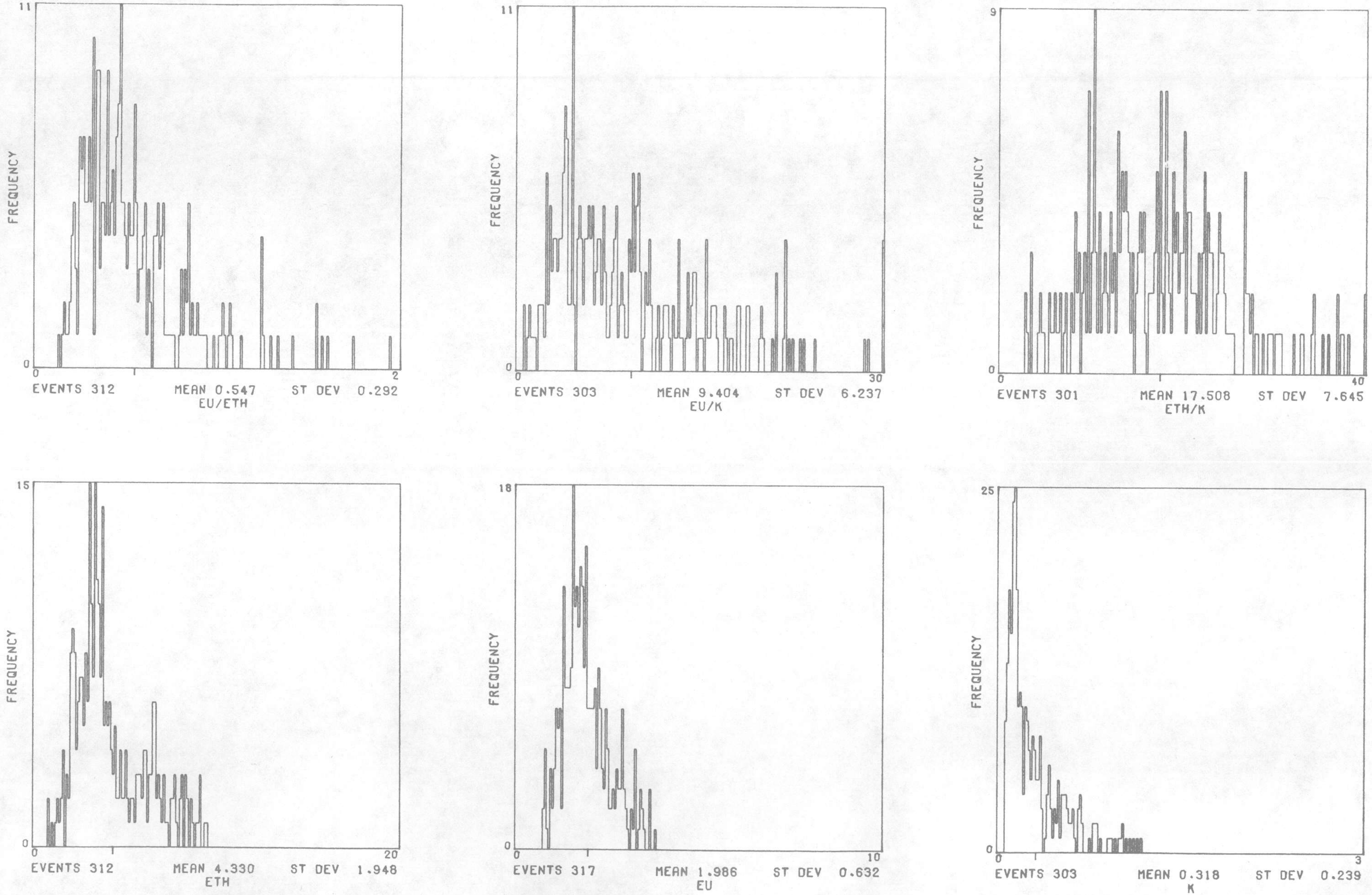
UNIT 0CBK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EVENTS 303
MEAN 9.404
ST DEV 6.237
EU/K
FREQUENCY
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EVENTS 301
MEAN 17.508
ST DEV 7.645
ETH/K
FREQUENCY
15
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EVENTS 312
MEAN 4.330
ST DEV 1.948
ETH
FREQUENCY
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10
EVENTS 317
MEAN 1.986
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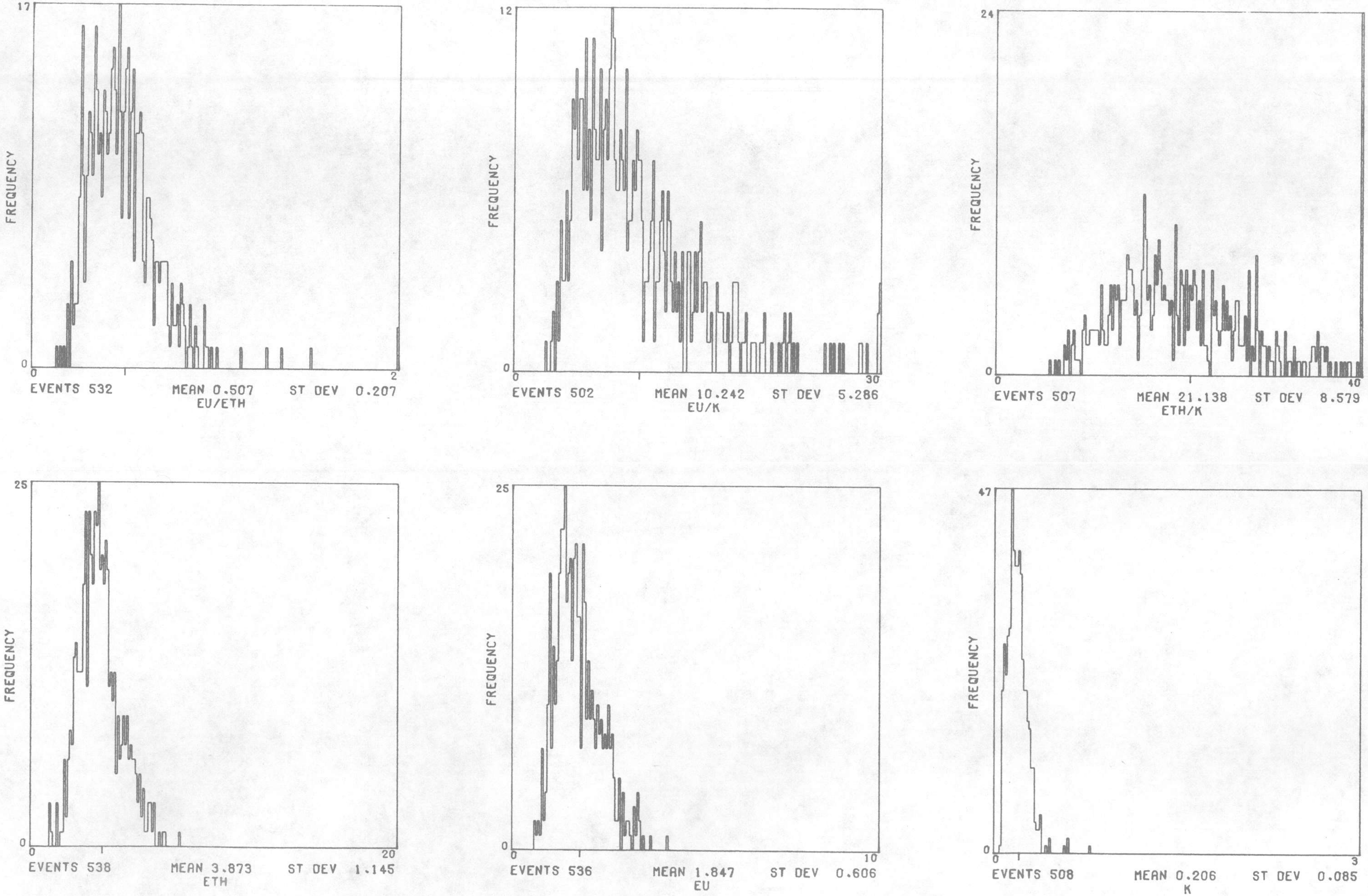
UNIT 0CC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EVENTS 502
MEAN 10.242
ST DEV 5.286
EU/K
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FREQUENCY
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EVENTS 507
MEAN 21.138
ST DEV 8.579
ETH/K
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FREQUENCY
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20
EVENTS 538
MEAN 3.873
ST DEV 1.145
ETH
25
FREQUENCY
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EVENTS 536
MEAN 1.847
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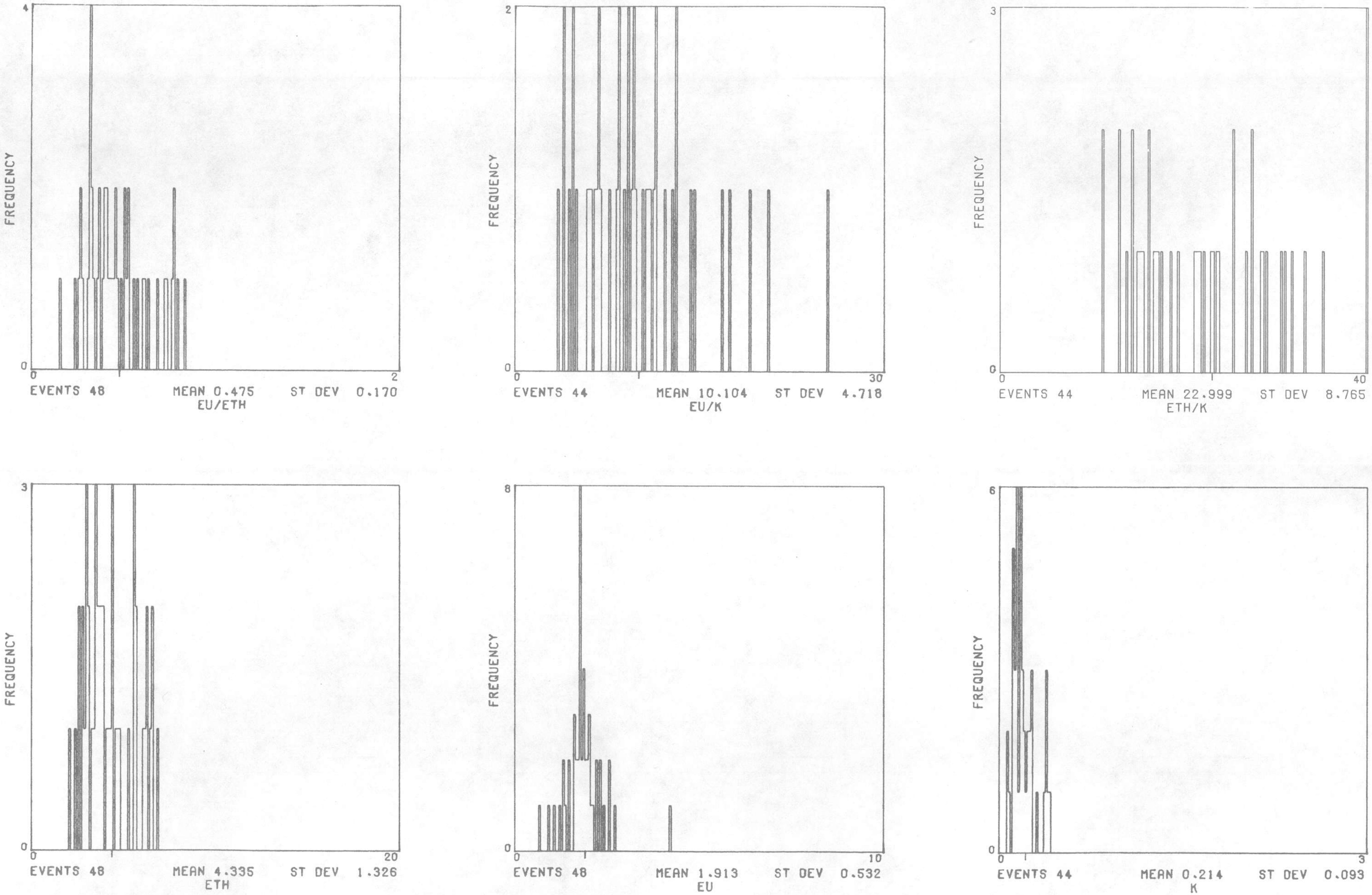
UNIT ØCCR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EVENTS 44
MEAN 10.104
ST DEV 4.718
EU/K
FREQUENCY
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0
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EVENTS 44
MEAN 22.999
ST DEV 8.765
ETH/K
FREQUENCY
3
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0
20
EVENTS 48
MEAN 4.335
ST DEV 1.326
ETH
FREQUENCY
8
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10
EVENTS 48
MEAN 1.913
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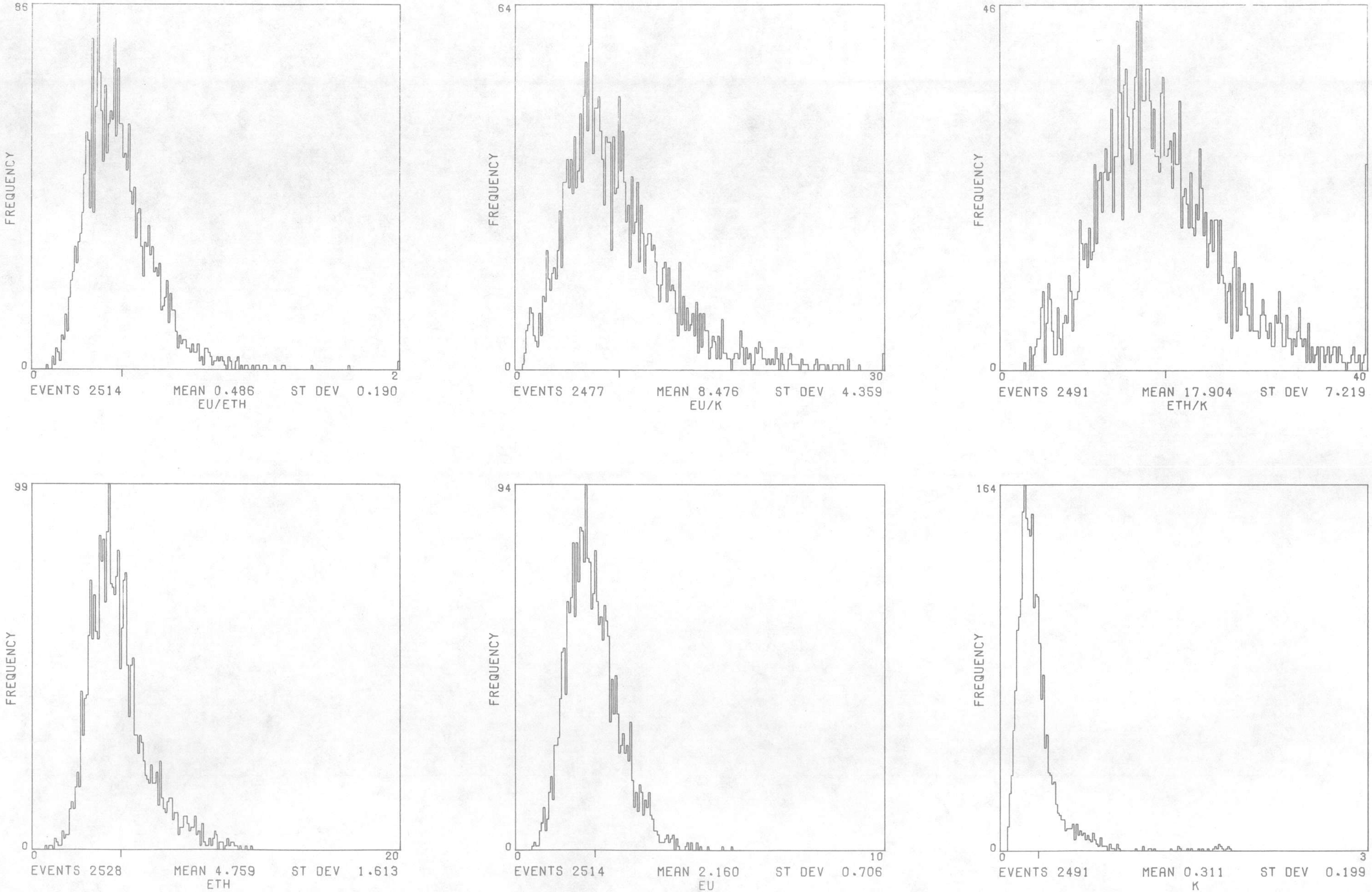
UNIT ØCER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EVENTS 2477
MEAN 8.476
ST DEV 4.359
EU/K
46
FREQUENCY
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EVENTS 2491
MEAN 17.904
ST DEV 7.219
ETH/K
99
FREQUENCY
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EVENTS 2528
MEAN 4.759
ST DEV 1.613
ETH
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EVENTS 2514
MEAN 2.160
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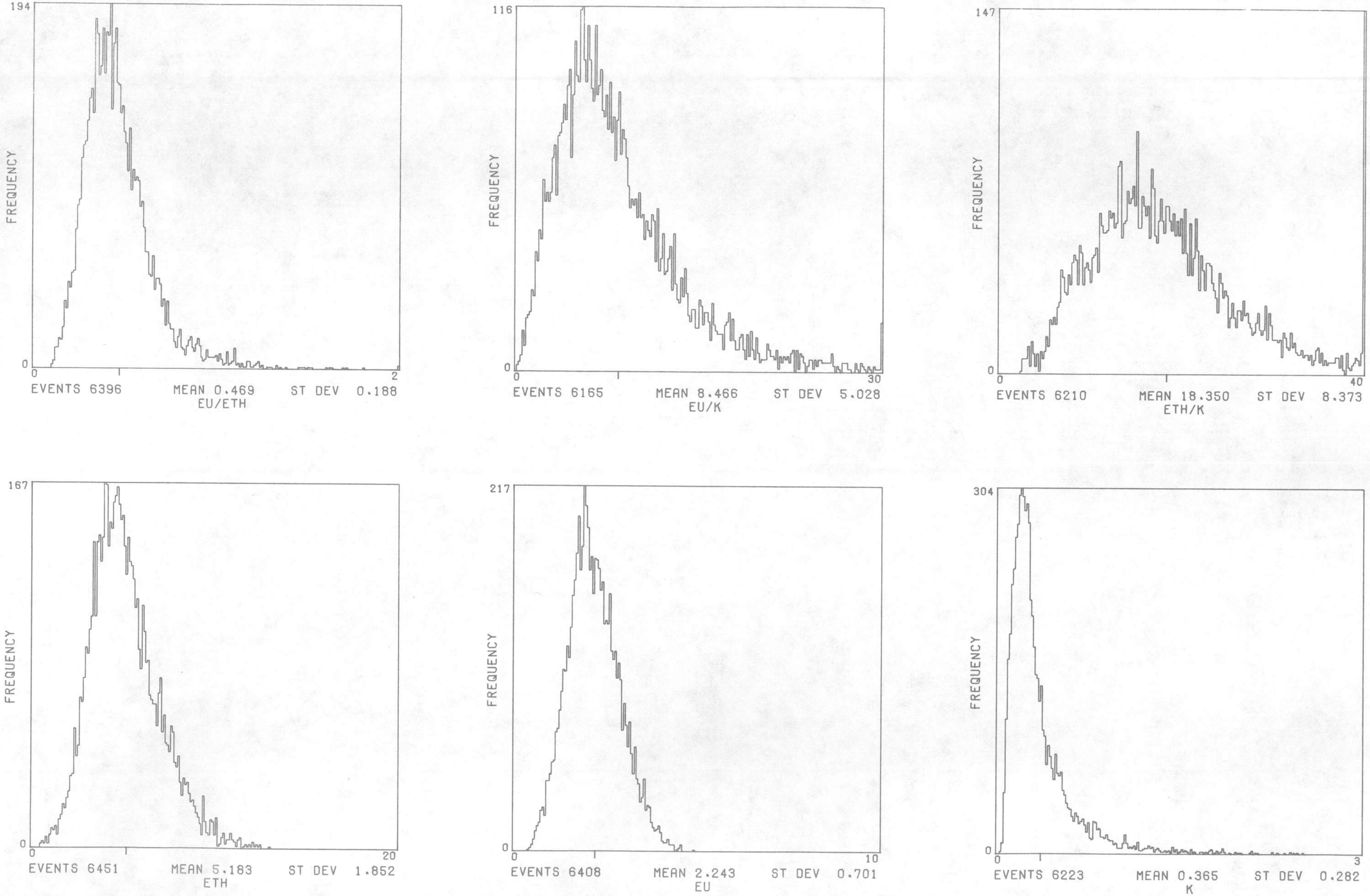
UNIT ØCK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EVENTS 6396
MEAN 0.469
ST DEV 0.188
EU/ETH
116
FREQUENCY
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30
EVENTS 6165
MEAN 8.466
ST DEV 5.028
EU/K
147
FREQUENCY
0
0
40
EVENTS 6210
MEAN 18.350
ST DEV 8.373
ETH/K
167
FREQUENCY
0
0
20
EVENTS 6451
MEAN 5.183
ST DEV 1.852
ETH
217
FREQUENCY
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0
10
EVENTS 6408
MEAN 2.243
ST DEV 0.701
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EVENTS 6223
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ST DEV 0.282
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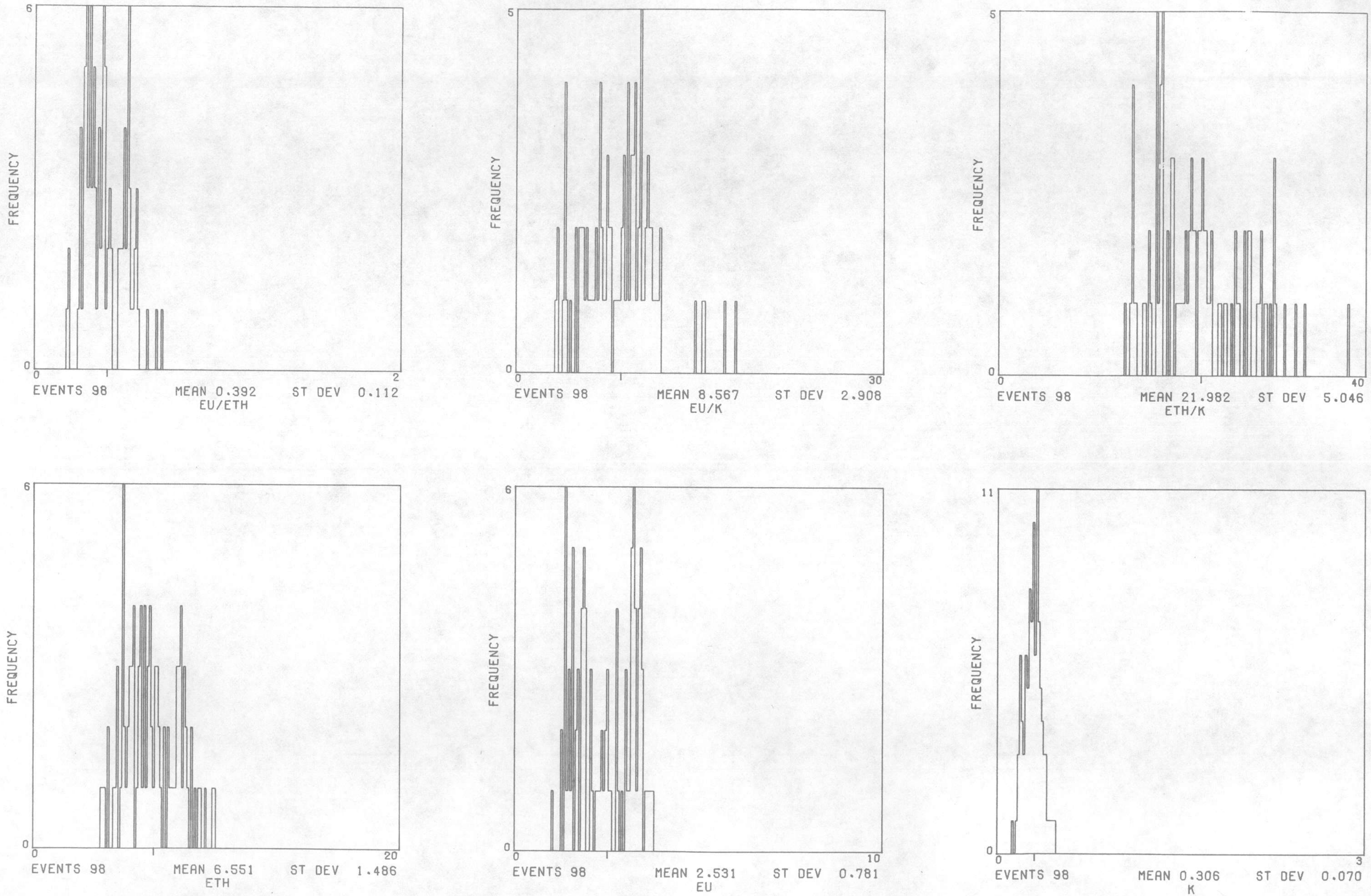
UNIT 0CU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MEAN 8.567
ST DEV 2.908
EU/K
40
MEAN 21.982
ST DEV 5.046
ETH/K
20
MEAN 6.551
ST DEV 1.486
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MEAN 2.531
ST DEV 0.781
EU
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MEAN 0.306
ST DEV 0.070
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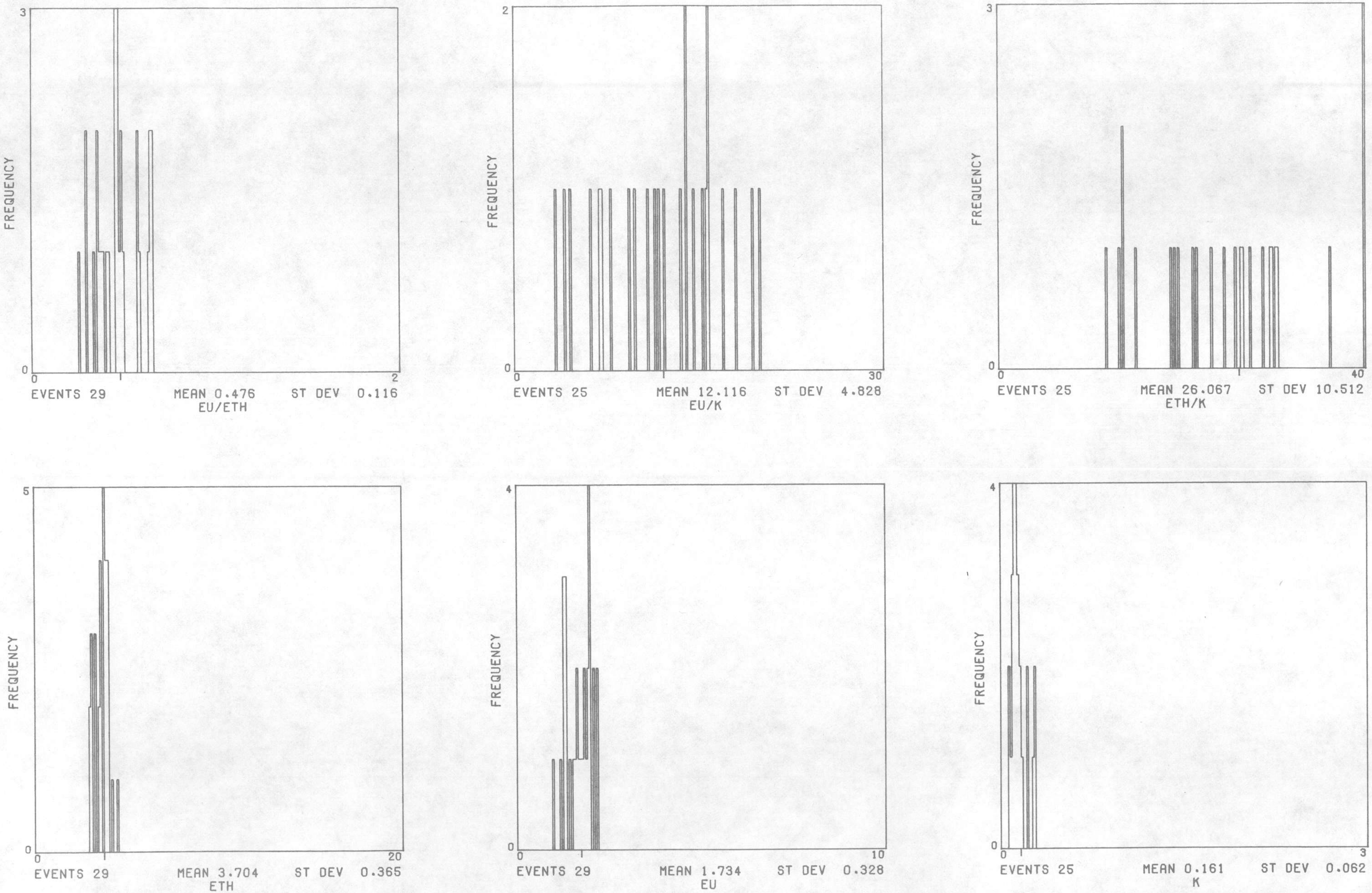
UNIT 0EB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ST DEV 0.116
EU/ETH
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EVENTS 25
MEAN 12.116
ST DEV 4.828
EU/K
FREQUENCY
3
0
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40
EVENTS 25
MEAN 26.067
ST DEV 10.512
ETH/K
FREQUENCY
5
0
0
20
EVENTS 29
MEAN 3.704
ST DEV 0.365
ETH
FREQUENCY
4
0
0
10
EVENTS 29
MEAN 1.734
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EVENTS 25
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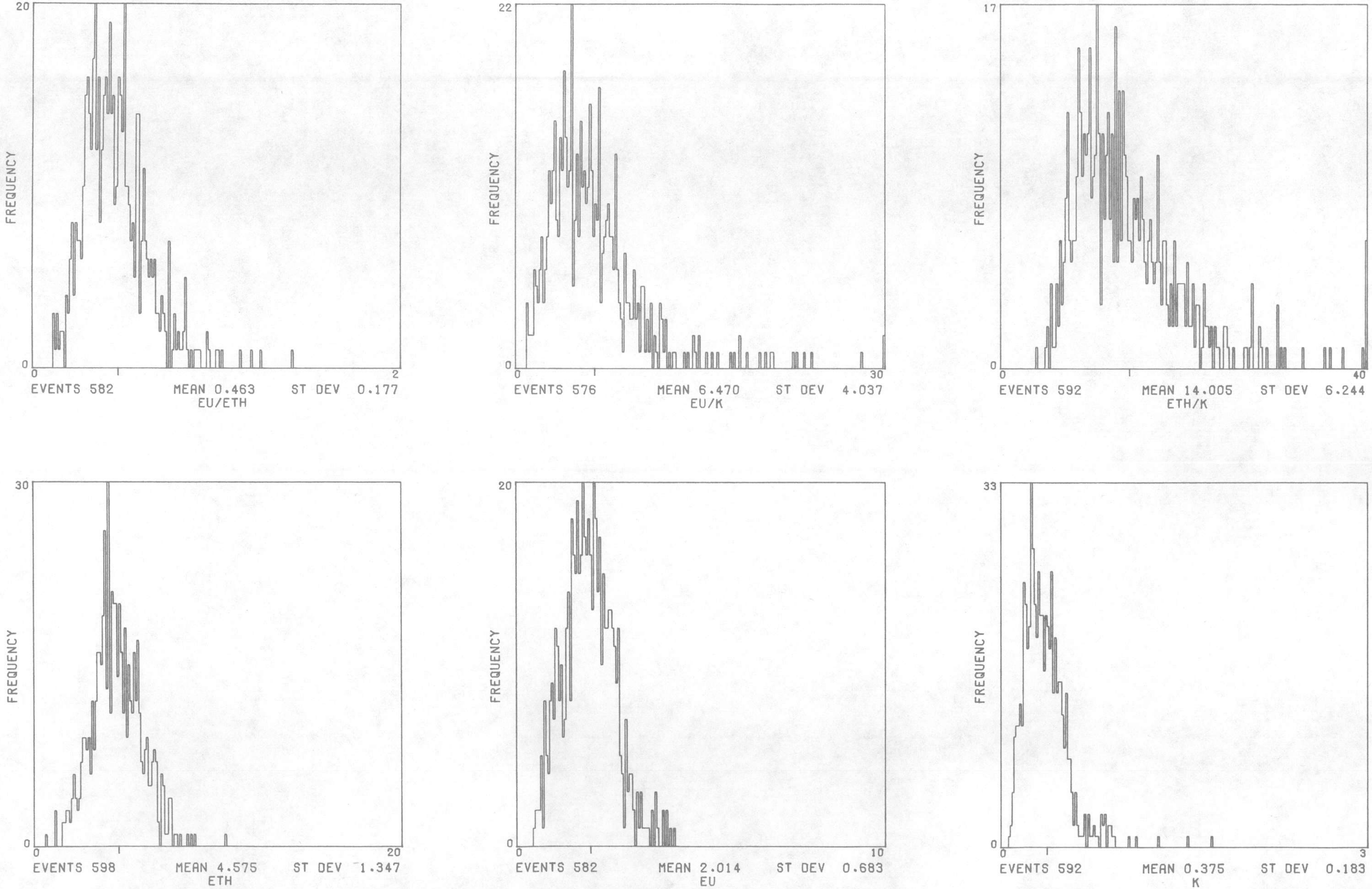
UNIT 0EC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EVENTS 576
MEAN 6.470
ST DEV 4.037
EU/K
17
FREQUENCY
0
0
40
EVENTS 592
MEAN 14.005
ST DEV 6.244
ETH/K
30
FREQUENCY
0
0
20
EVENTS 598
MEAN 4.575
ST DEV 1.347
ETH
20
FREQUENCY
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0
10
EVENTS 582
MEAN 2.014
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FREQUENCY
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EVENTS 592
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ST DEV 0.183
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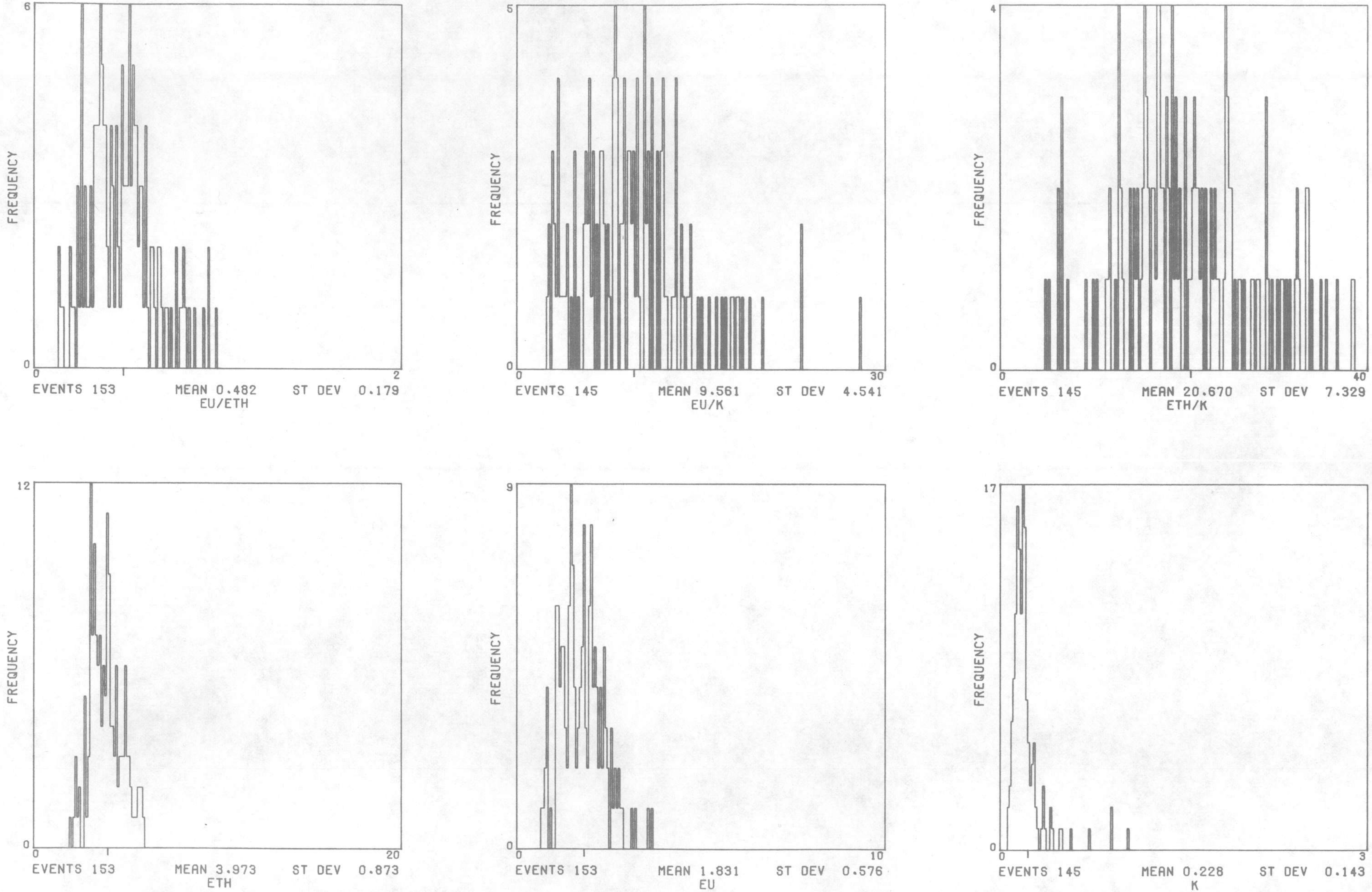
UNIT ØLM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EU/ETH
EVENTS 145 MEAN 9.561 ST DEV 4.541
EU/K
EVENTS 145 MEAN 20.670 ST DEV 7.329
ETH/K
EVENTS 153 MEAN 3.973 ST DEV 0.873
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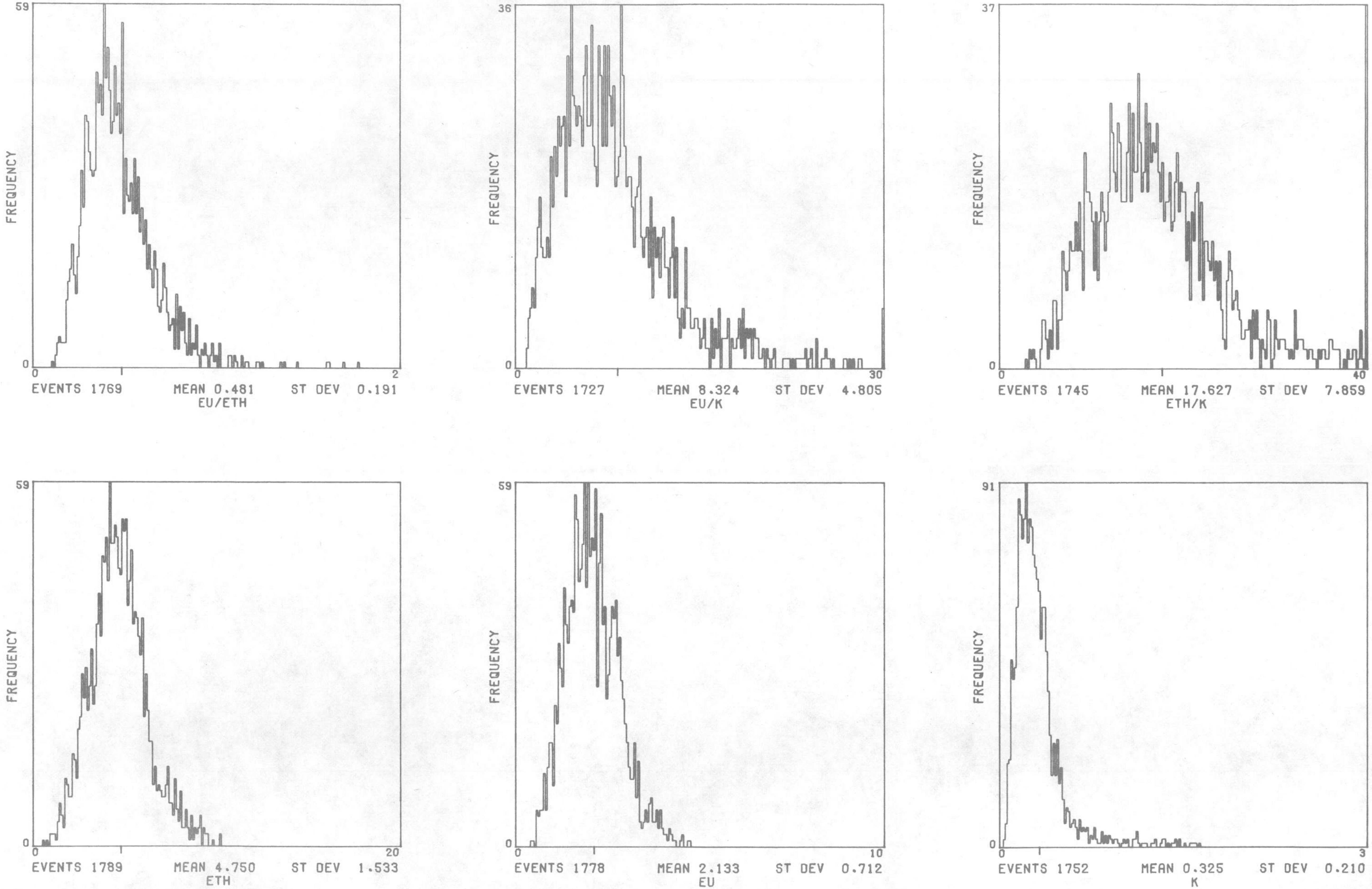
EVENTS 153 MEAN 1.831 ST DEV 0.576
EU
EVENTS 145 MEAN 0.228 ST DEV 0.143
K

UNIT ØLV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ST DEV 0.191
EU/ETH
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FREQUENCY
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EVENTS 1727
MEAN 8.324
ST DEV 4.805
EU/K
37
FREQUENCY
0
0
40
EVENTS 1745
MEAN 17.627
ST DEV 7.859
ETH/K
59
FREQUENCY
0
0
20
EVENTS 1789
MEAN 4.750
ST DEV 1.533
ETH
59
FREQUENCY
0
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10
EVENTS 1778
MEAN 2.133
ST DEV 0.712
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FREQUENCY
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EVENTS 1752
MEAN 0.325
ST DEV 0.210
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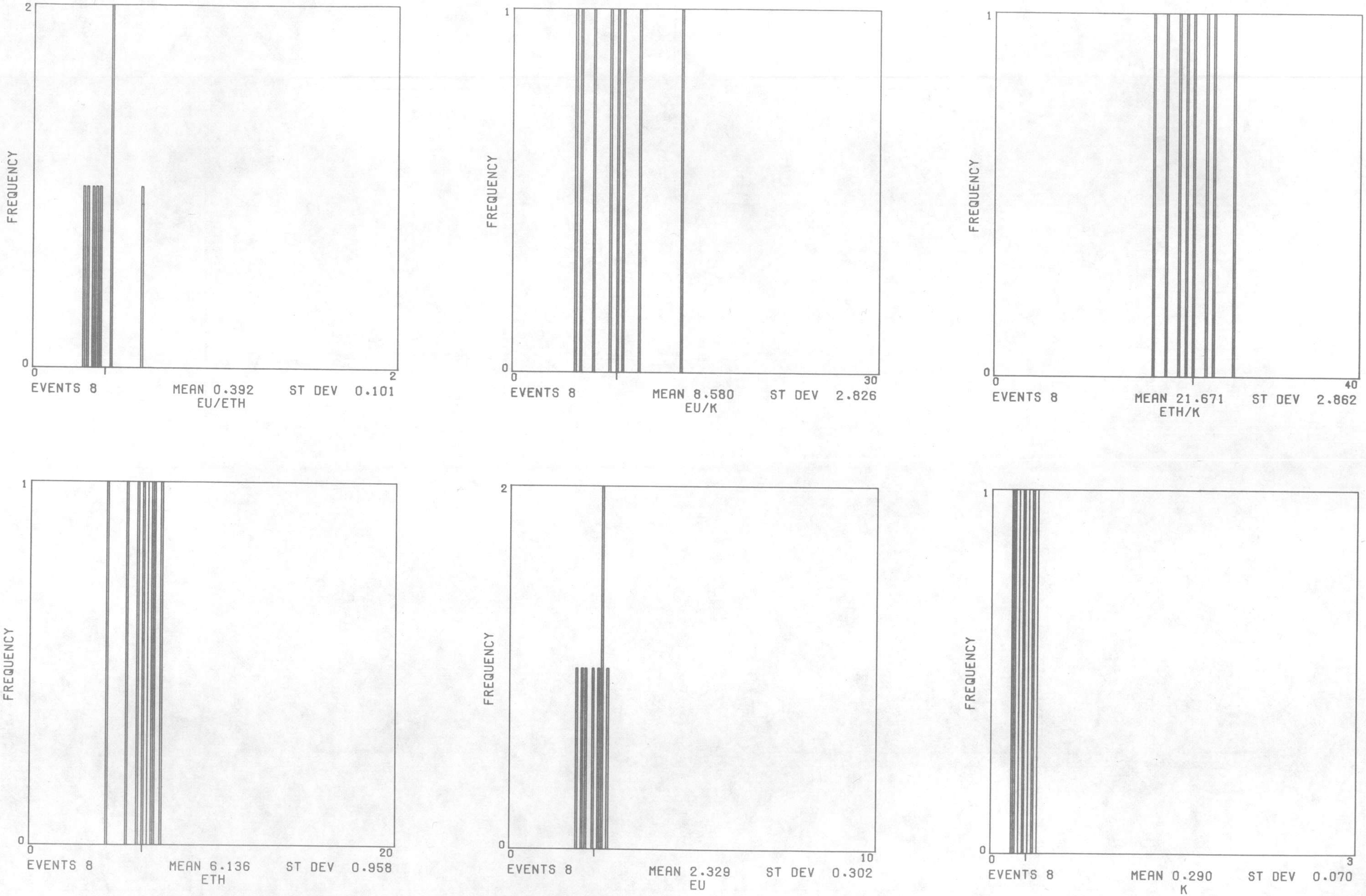
UNIT ØNL



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FREQUENCY
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EVENTS 8
MEAN 0.392
ST DEV 0.101
EU/ETH
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FREQUENCY
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EVENTS 8
MEAN 8.580
ST DEV 2.826
EU/K
1
0
FREQUENCY
0
40
EVENTS 8
MEAN 21.671
ST DEV 2.862
ETH/K
1
0
FREQUENCY
0
20
EVENTS 8
MEAN 6.136
ST DEV 0.958
ETH
2
0
FREQUENCY
0
10
EVENTS 8
MEAN 2.329
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MEAN 0.290
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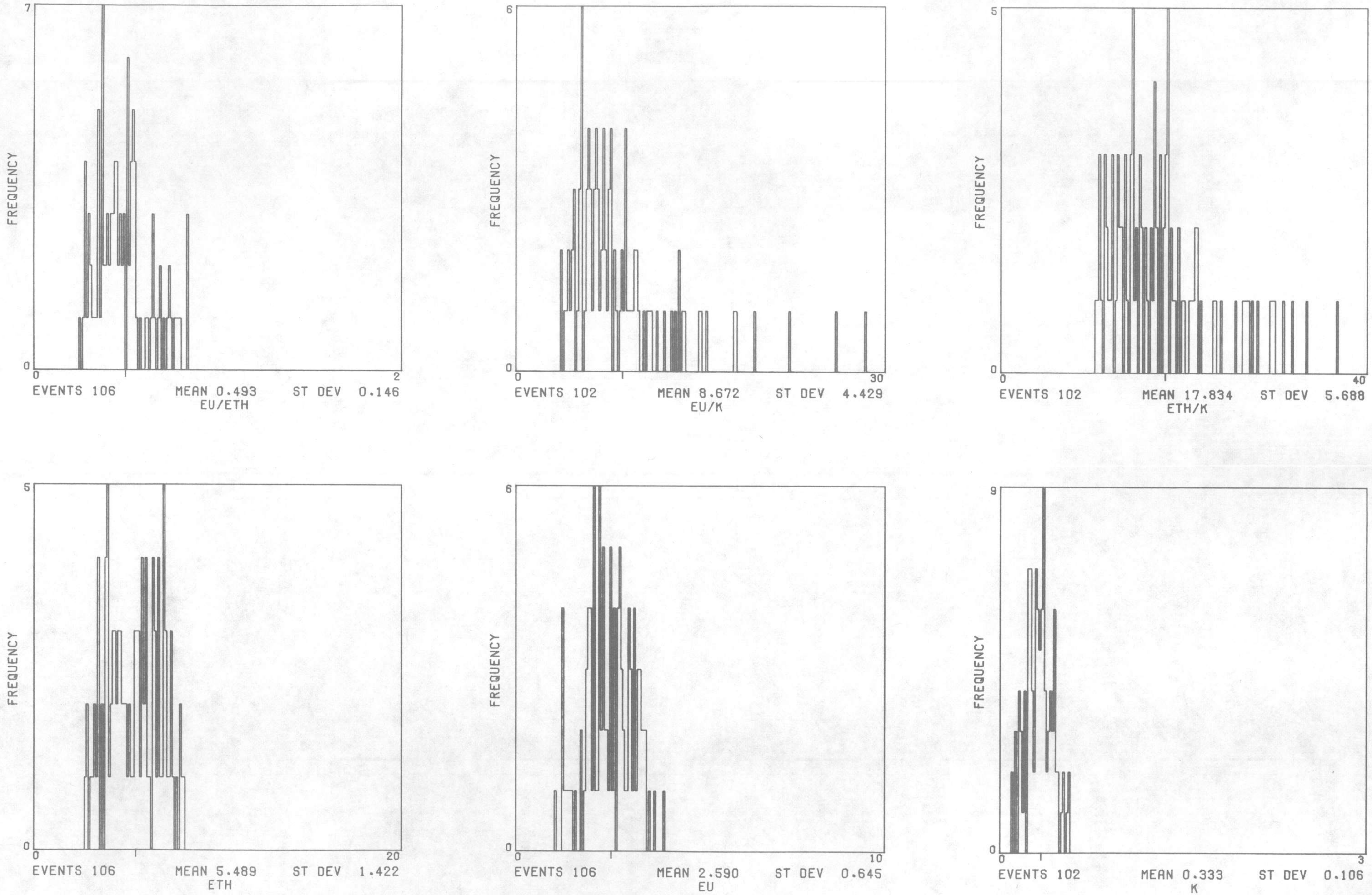
UNIT 0N0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EVENTS 102
MEAN 8.672
ST DEV 4.429
EU/K
5
0
40
EVENTS 102
MEAN 17.834
ST DEV 5.688
ETH/K
5
0
20
EVENTS 106
MEAN 5.489
ST DEV 1.422
ETH
6
0
10
EVENTS 106
MEAN 2.590
ST DEV 0.645
EU
9
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EVENTS 102
MEAN 0.333
ST DEV 0.106
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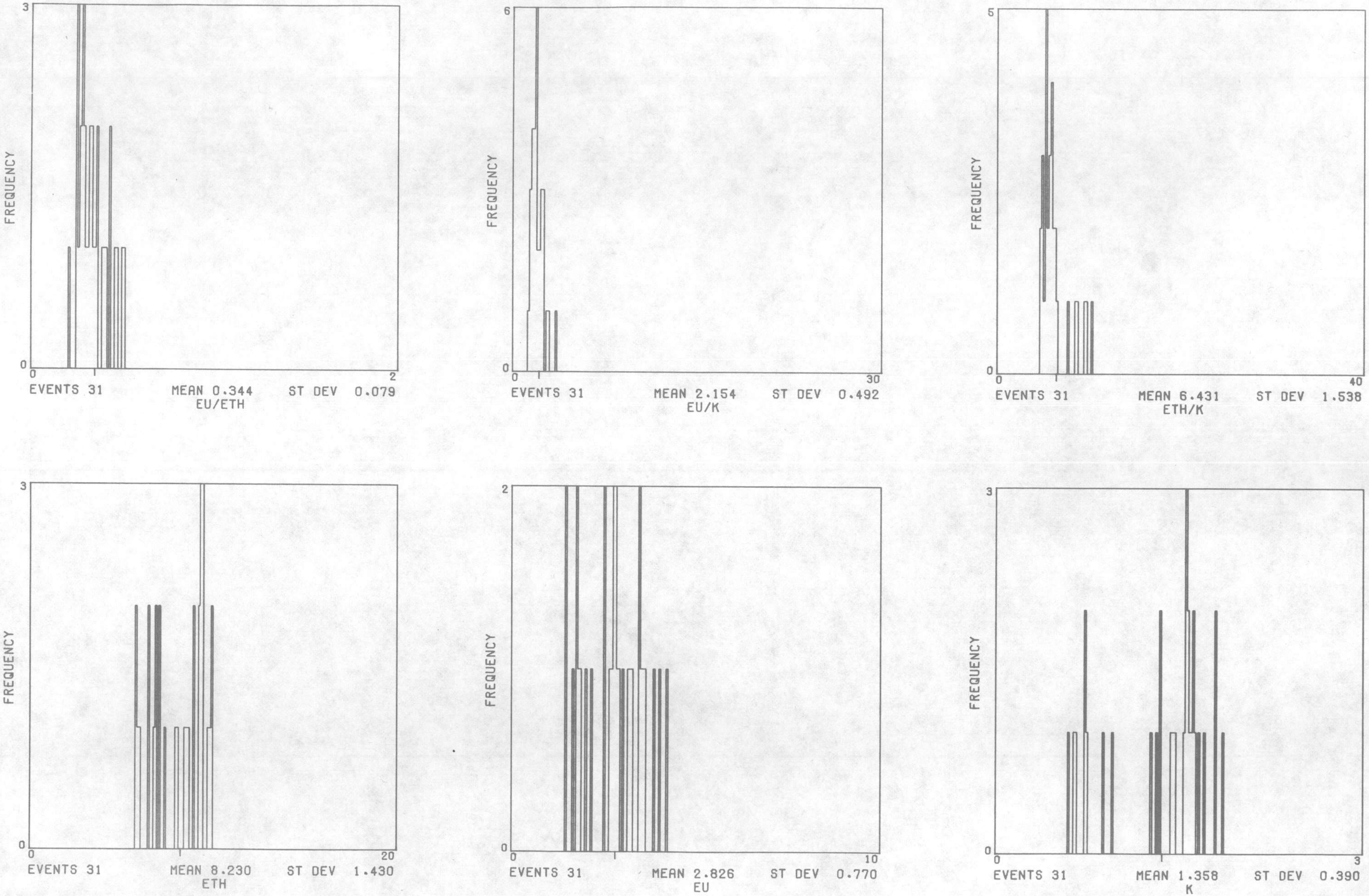
UNIT ØU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FREQUENCY
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EVENTS 31
MEAN 0.344
ST DEV 0.079
EU/ETH
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FREQUENCY
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0
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EVENTS 31
MEAN 2.154
ST DEV 0.492
EU/K
5
FREQUENCY
0
0
40
EVENTS 31
MEAN 6.431
ST DEV 1.538
ETH/K
3
FREQUENCY
0
0
20
EVENTS 31
MEAN 8.230
ST DEV 1.430
ETH
2
FREQUENCY
0
0
10
EVENTS 31
MEAN 2.826
ST DEV 0.770
EU
3
FREQUENCY
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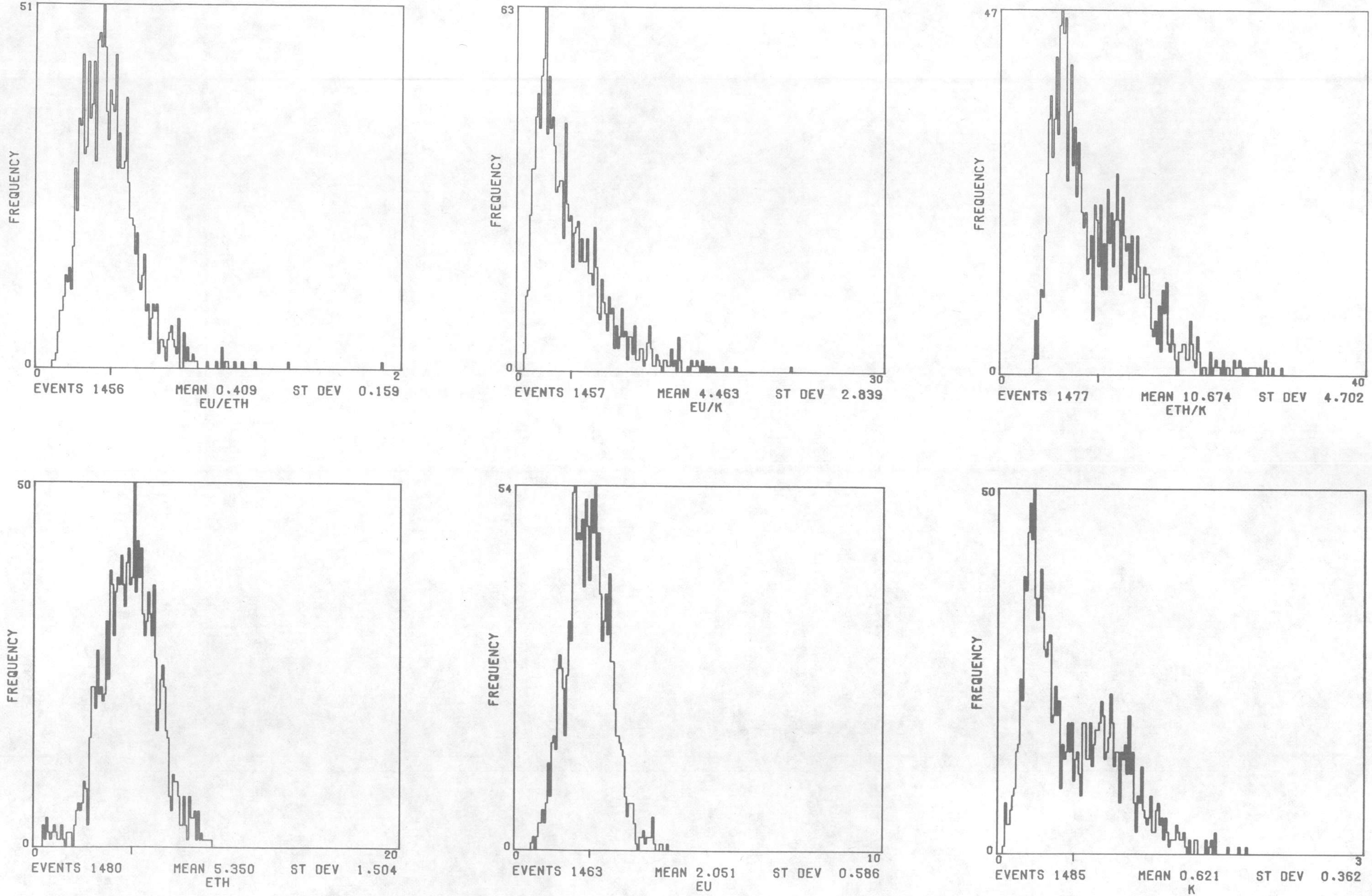
EVENTS 31
MEAN 1.358
ST DEV 0.390
K

UNIT PA


51
FREQUENCY
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EVENTS 1456
MEAN 0.409
ST DEV 0.159
EU/ETH
63
FREQUENCY
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30
EVENTS 1457
MEAN 4.463
ST DEV 2.839
EU/K
47
FREQUENCY
0
0
40
EVENTS 1477
MEAN 10.674
ST DEV 4.702
ETH/K
50
FREQUENCY
0
0
20
EVENTS 1480
MEAN 5.350
ST DEV 1.504
ETH
54
FREQUENCY
0
0
10
EVENTS 1463
MEAN 2.051
ST DEV 0.586
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EVENTS 1485
MEAN 0.621
ST DEV 0.362
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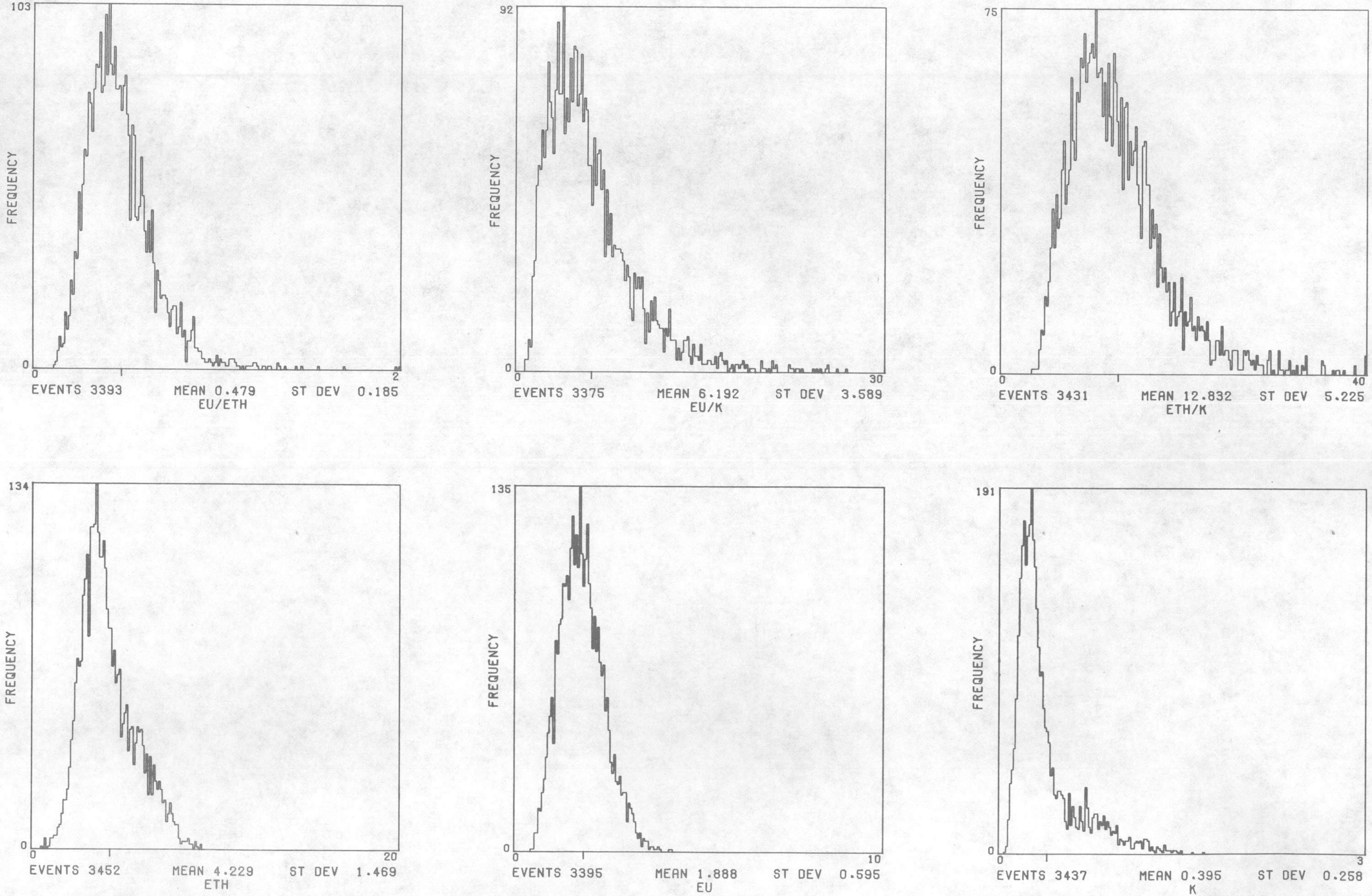
UNIT PBR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FREQUENCY
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FREQUENCY
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EVENTS 3375
MEAN 6.192
ST DEV 3.589
EU/K
75
FREQUENCY
0
0
40
EVENTS 3431
MEAN 12.832
ST DEV 5.225
ETH/K
134
FREQUENCY
0
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20
EVENTS 3452
MEAN 4.229
ST DEV 1.469
ETH
135
FREQUENCY
0
0
10
EVENTS 3395
MEAN 1.888
ST DEV 0.595
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FREQUENCY
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EVENTS 3437
MEAN 0.395
ST DEV 0.258
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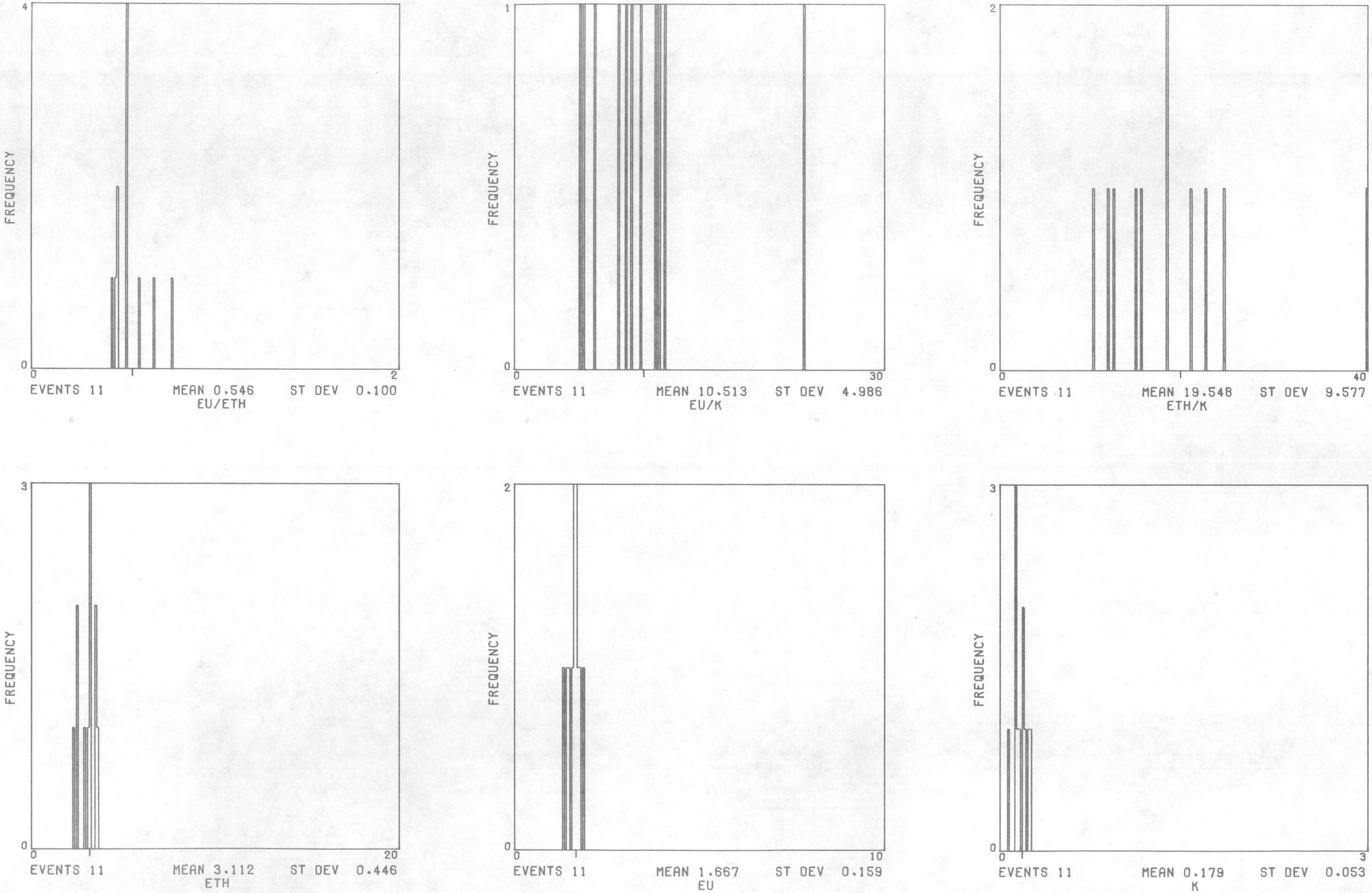
UNIT PBY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EVENTS 11
MEAN 10.513
ST DEV 4.986
EU/K
FREQUENCY
2
0
0
40
EVENTS 11
MEAN 19.548
ST DEV 9.577
ETH/K
FREQUENCY
3
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0
20
EVENTS 11
MEAN 3.112
ST DEV 0.446
ETH
FREQUENCY
2
0
0
10
EVENTS 11
MEAN 1.667
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EVENTS 11
MEAN 0.179
ST DEV 0.053
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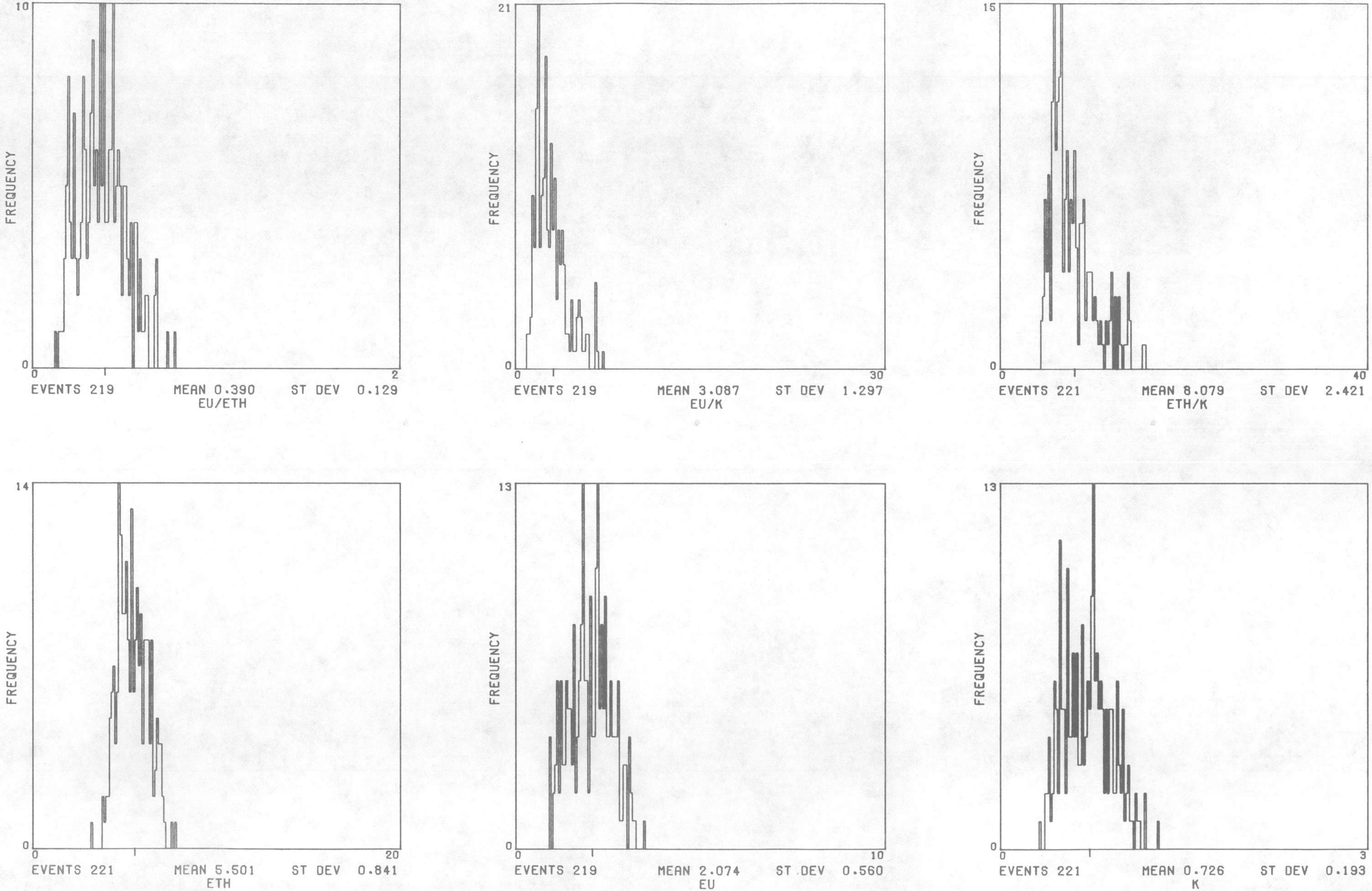
UNIT PCA



FREQUENCY
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ST DEV 0.129
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MEAN 3.087
ST DEV 1.297
EU/K
15
40
EVENTS 221
MEAN 8.079
ST DEV 2.421
ETH/K
14
20
EVENTS 221
MEAN 5.501
ST DEV 0.841
ETH
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EVENTS 219
MEAN 2.074
ST DEV 0.560
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EVENTS 221
MEAN 0.726
ST DEV 0.193
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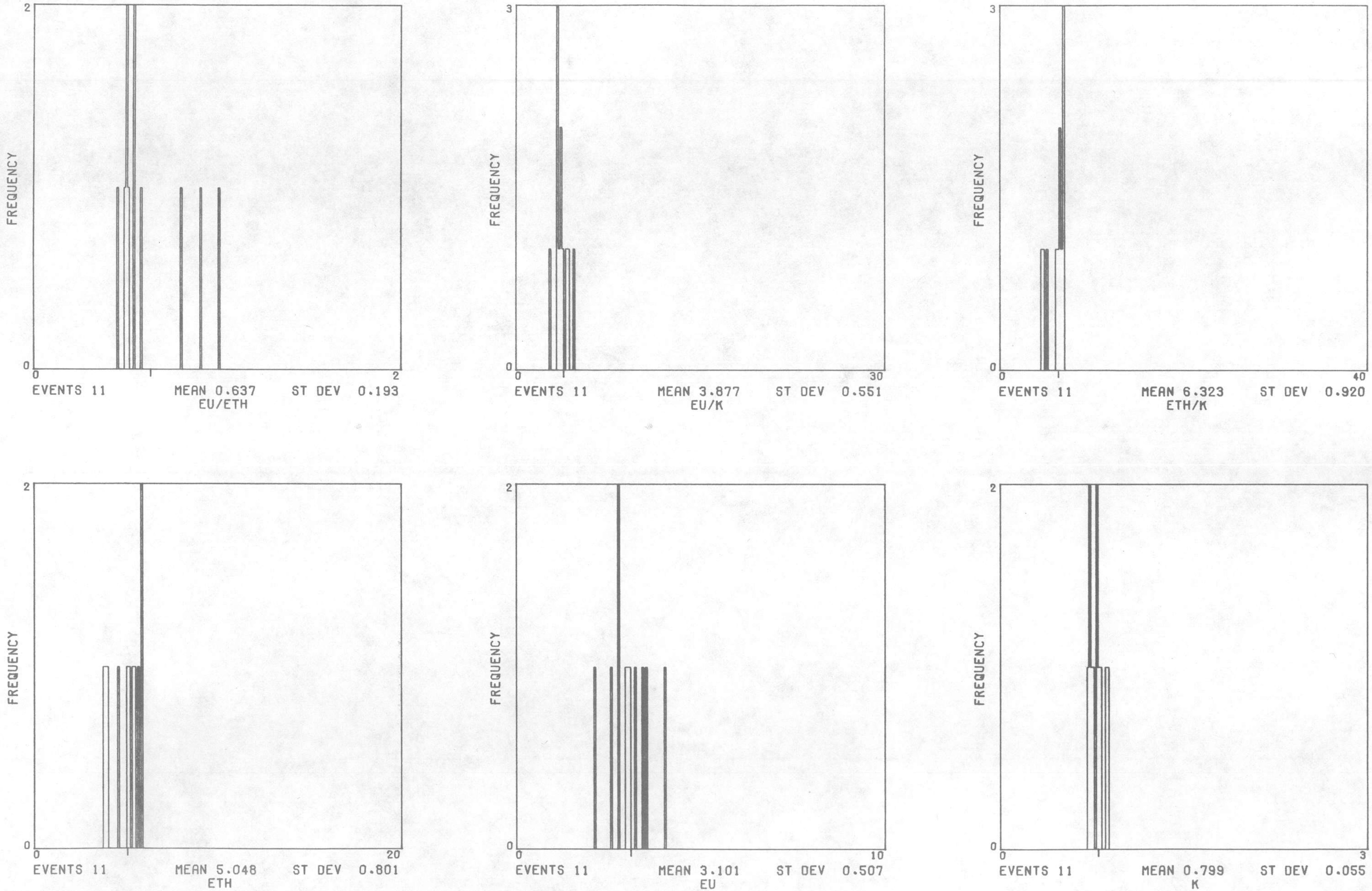
UNIT PCN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EVENTS 11
MEAN 0.637
ST DEV 0.193
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EVENTS 11
MEAN 3.877
ST DEV 0.551
EU/K
FREQUENCY
3
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0
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EVENTS 11
MEAN 6.323
ST DEV 0.920
ETH/K
FREQUENCY
2
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20
EVENTS 11
MEAN 5.048
ST DEV 0.801
ETH
FREQUENCY
2
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0
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EVENTS 11
MEAN 3.101
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EVENTS 11
MEAN 0.799
ST DEV 0.055
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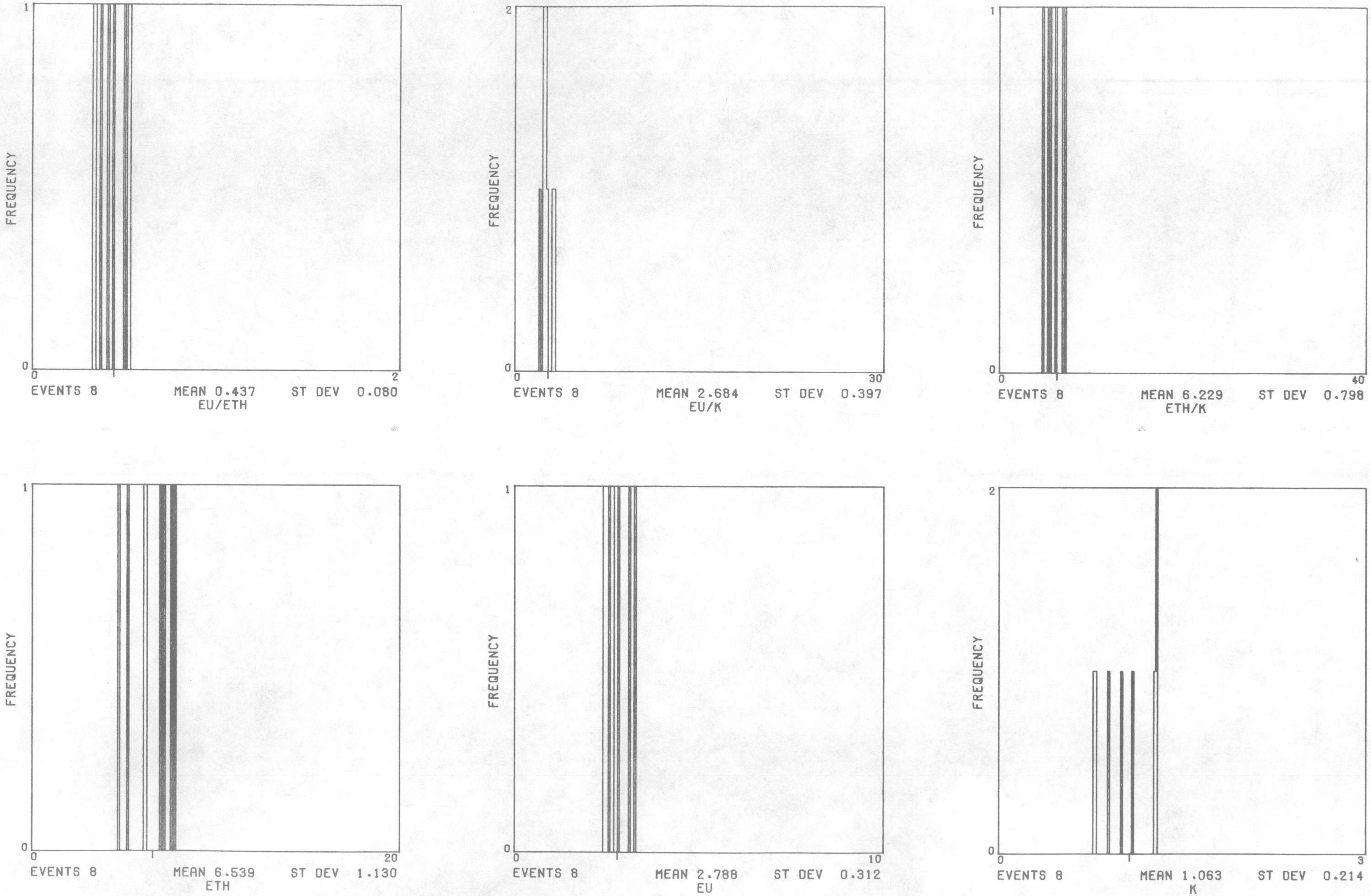
UNIT PGR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EU/ETH
EVENTS 8 MEAN 2.684 ST DEV 0.397
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EVENTS 8 MEAN 6.229 ST DEV 0.798
ETH/K
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EVENTS 8 MEAN 1.063 ST DEV 0.214
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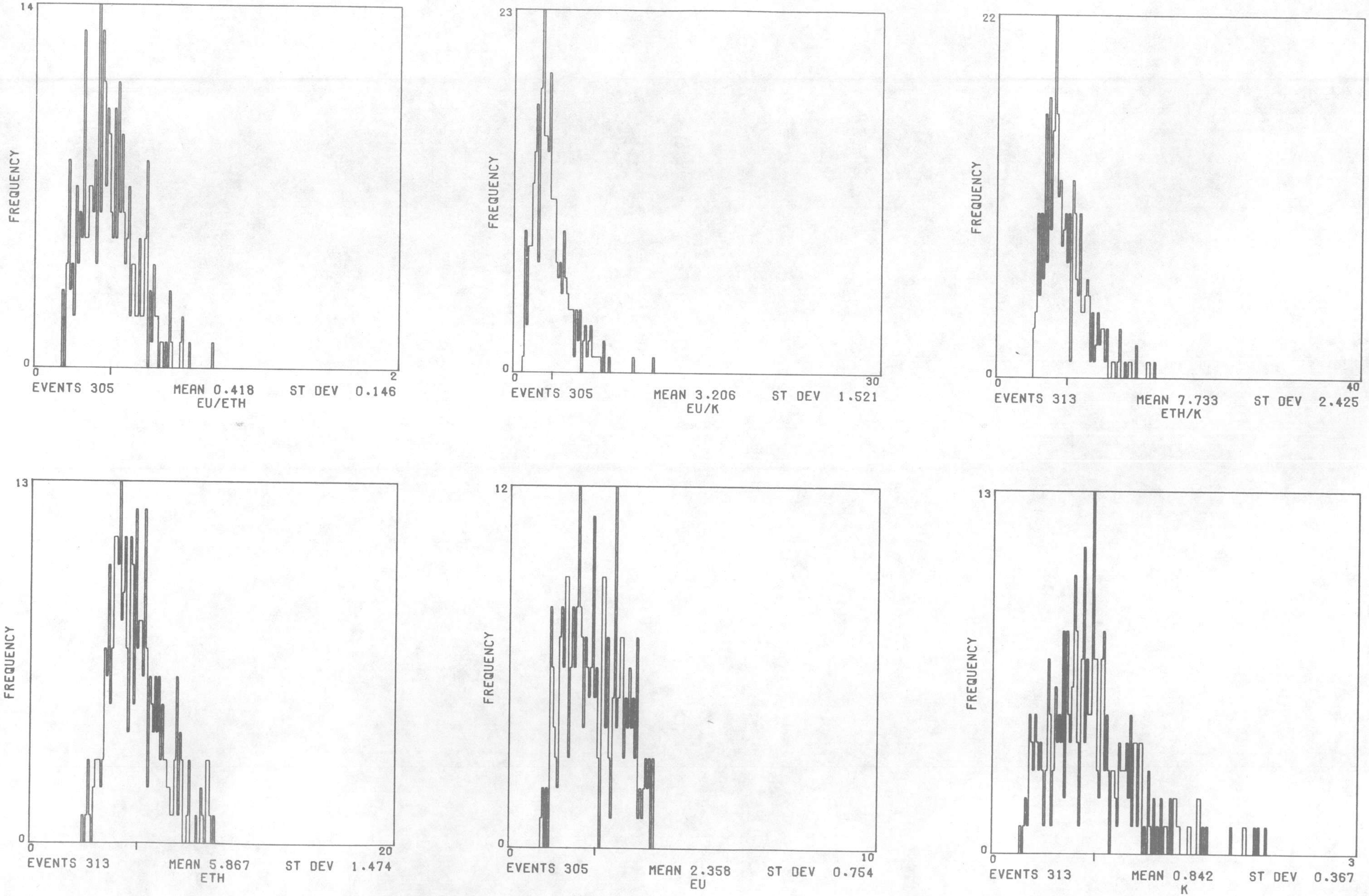
UNIT PIC



14
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EVENTS 305
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EVENTS 305
MEAN 3.206
ST DEV 1.521
EU/K
22
FREQUENCY
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EVENTS 313
MEAN 7.733
ST DEV 2.425
ETH/K
13
FREQUENCY
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0
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EVENTS 313
MEAN 5.867
ST DEV 1.474
ETH
12
FREQUENCY
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10
EVENTS 305
MEAN 2.358
ST DEV 0.754
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FREQUENCY
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EVENTS 313
MEAN 0.842
ST DEV 0.367
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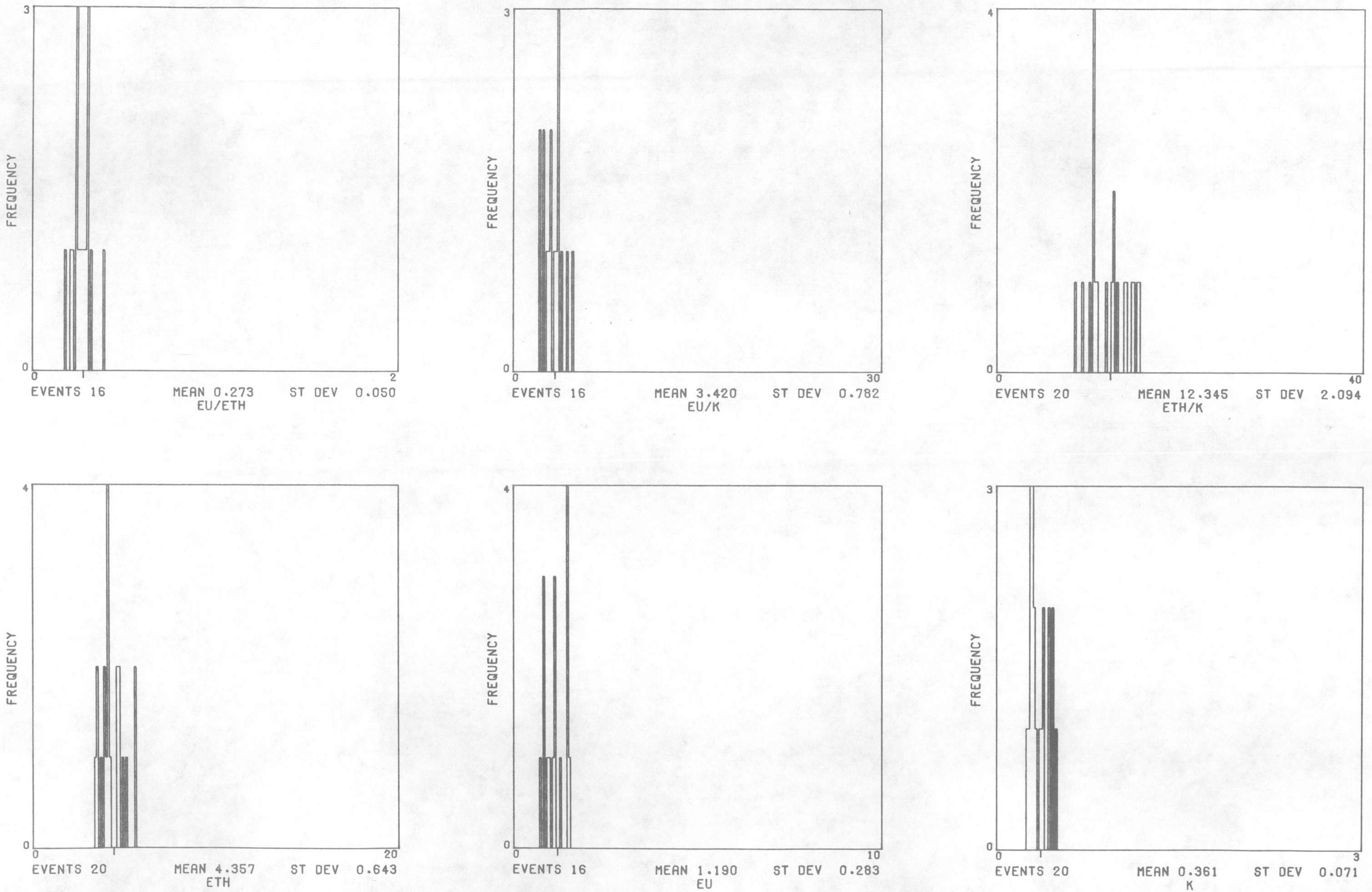
UNIT PLC



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FREQUENCY
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FREQUENCY
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EVENTS 16
MEAN 3.420
ST DEV 0.782
EU/K
4
FREQUENCY
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EVENTS 20
MEAN 12.345
ST DEV 2.094
ETH/K
4
FREQUENCY
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20
EVENTS 20
MEAN 4.357
ST DEV 0.643
ETH
4
FREQUENCY
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EVENTS 16
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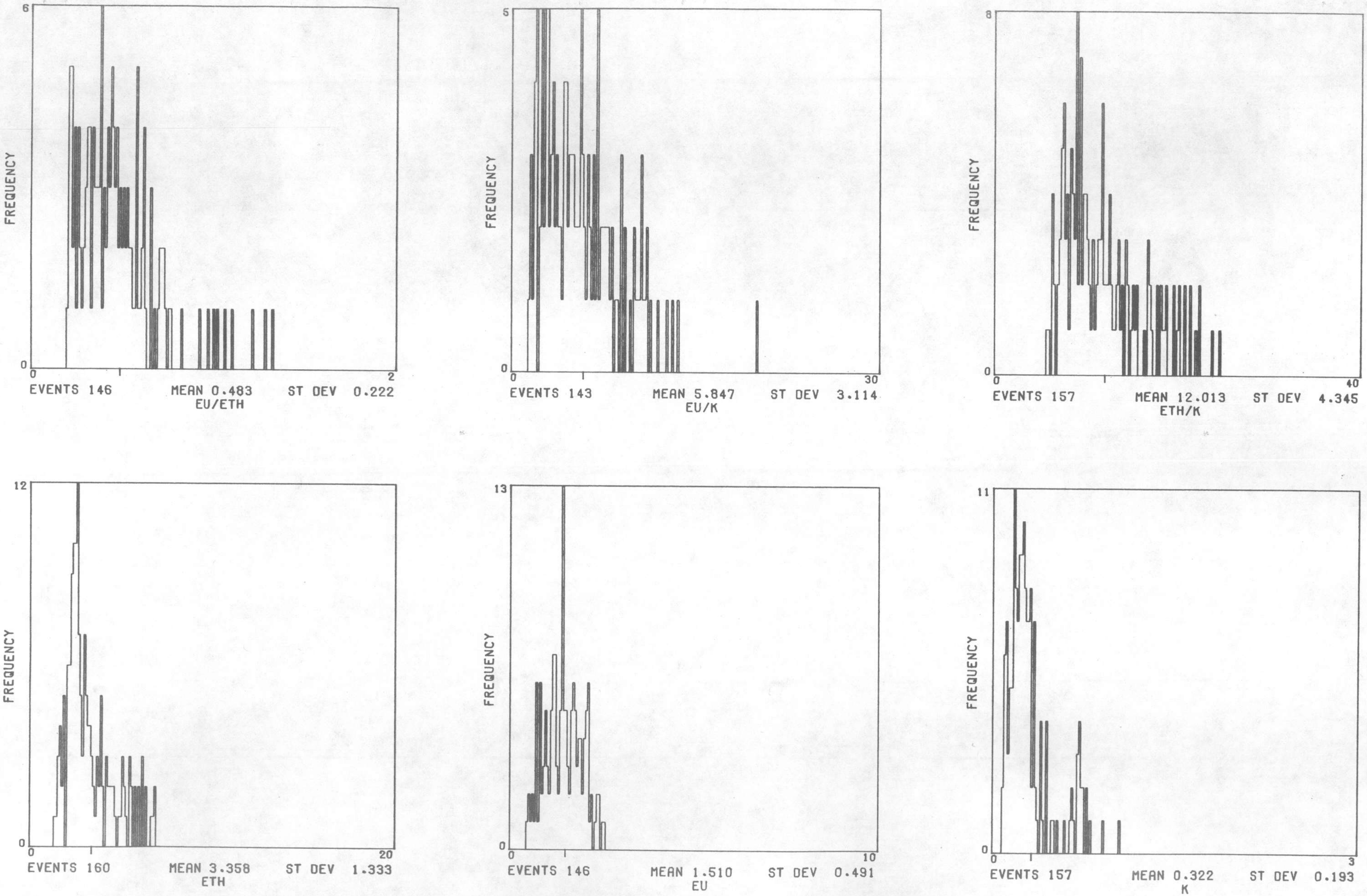
UNIT PMC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EVENTS 143
MEAN 5.847
ST DEV 3.114
EU/K
FREQUENCY
8
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40
EVENTS 157
MEAN 12.013
ST DEV 4.345
ETH/K
FREQUENCY
12
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0
20
EVENTS 160
MEAN 3.358
ST DEV 1.333
ETH
FREQUENCY
13
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0
10
EVENTS 146
MEAN 1.510
ST DEV 0.491
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EVENTS 157
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ST DEV 0.193
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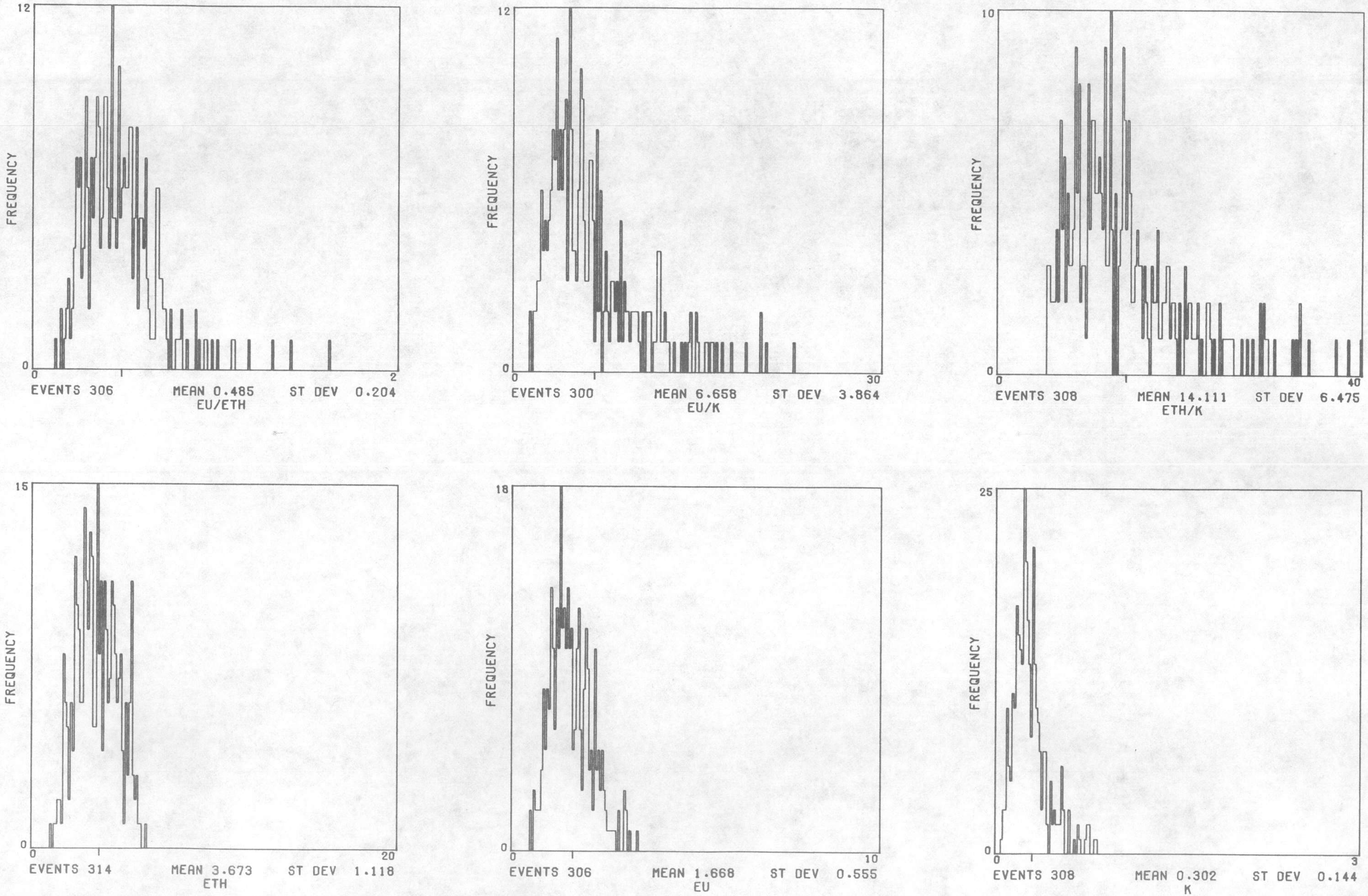
UNIT PPI



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EVENTS 306
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EVENTS 300
MEAN 6.658
ST DEV 3.864
EU/K
10
FREQUENCY
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0
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EVENTS 308
MEAN 14.111
ST DEV 6.475
ETH/K
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FREQUENCY
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EVENTS 314
MEAN 3.673
ST DEV 1.118
ETH
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FREQUENCY
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EVENTS 306
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ST DEV 0.555
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ST DEV 0.144
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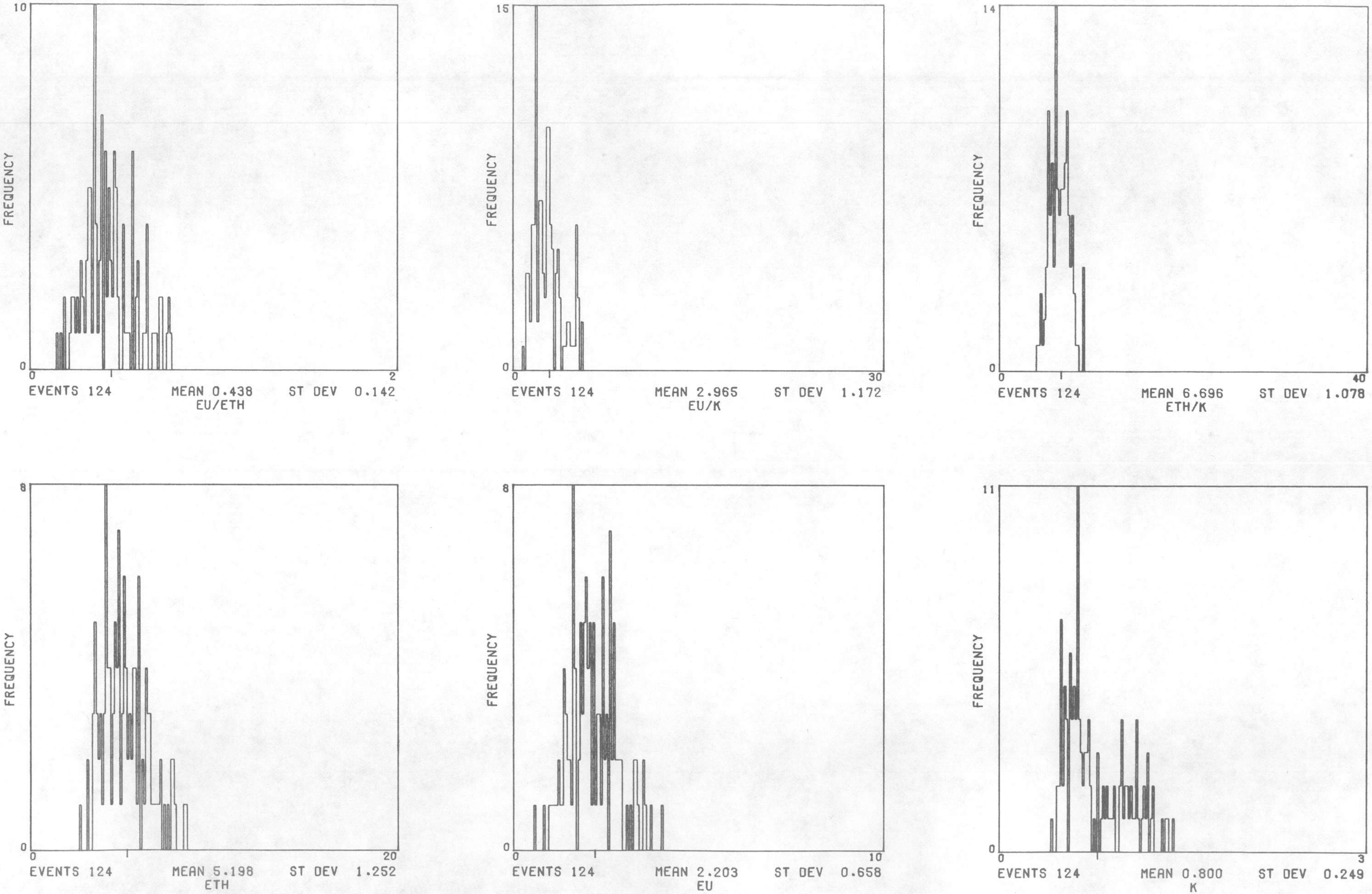
UNIT PPS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FREQUENCY
EVENTS 124
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ST DEV 1.172
EU/K
FREQUENCY
EVENTS 124
MEAN 6.696
ST DEV 1.078
ETH/K
FREQUENCY
EVENTS 124
MEAN 5.198
ST DEV 1.252
ETH
FREQUENCY
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ST DEV 0.249
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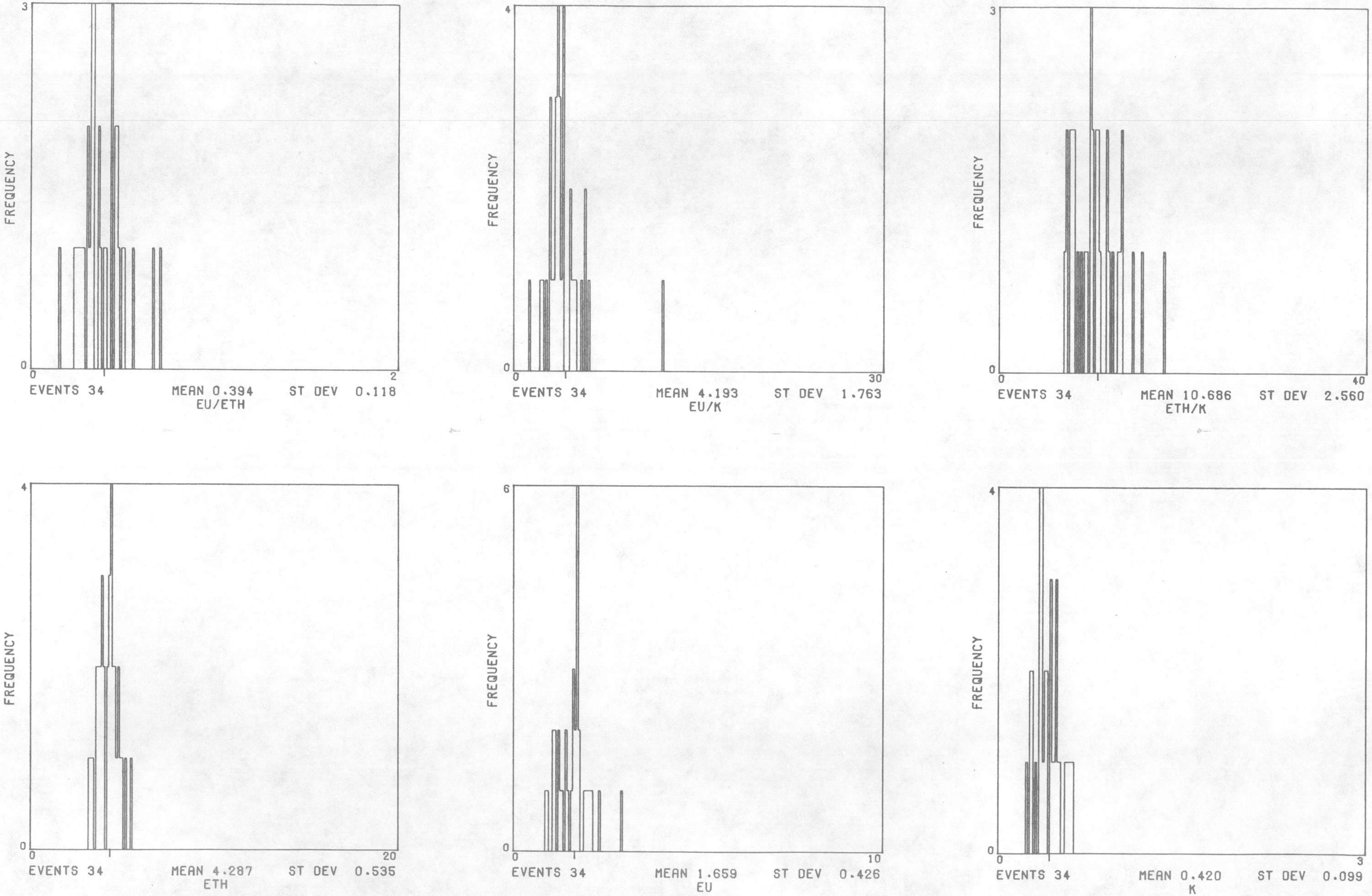
UNIT PSN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FREQUENCY
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EVENTS 34
MEAN 4.193
ST DEV 1.763
EU/K
3
0
FREQUENCY
0
40
EVENTS 34
MEAN 10.686
ST DEV 2.560
ETH/K
4
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FREQUENCY
0
20
EVENTS 34
MEAN 4.287
ST DEV 0.535
ETH
6
0
FREQUENCY
0
10
EVENTS 34
MEAN 1.659
ST DEV 0.426
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EVENTS 34
MEAN 0.420
ST DEV 0.099
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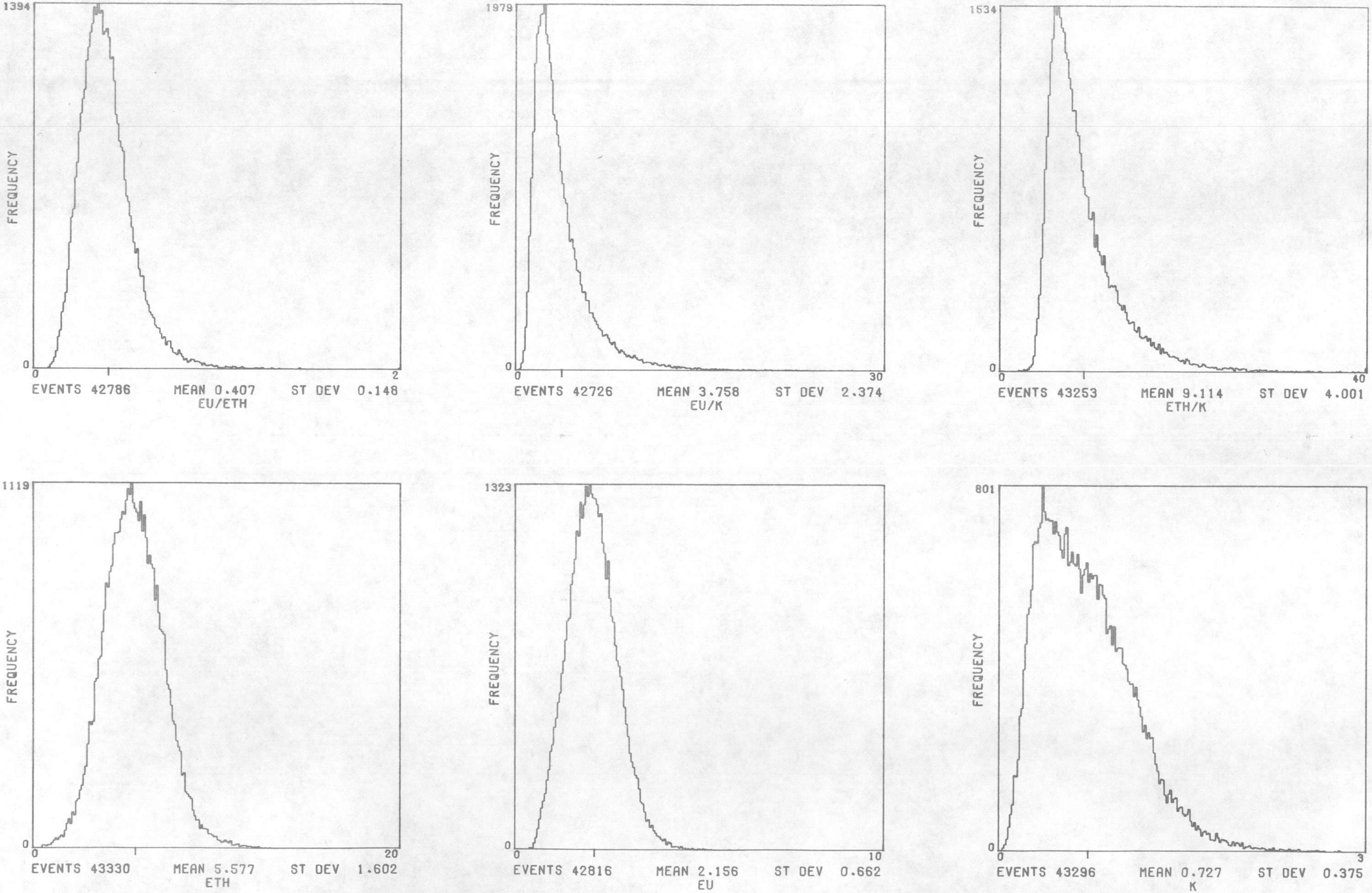
UNIT PSR


1394
FREQUENCY
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EVENTS 42786 MEAN 0.407 ST DEV 0.148
EU/ETH
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FREQUENCY
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EVENTS 42726 MEAN 3.758 ST DEV 2.374
EU/K
1534
FREQUENCY
0
0
40
EVENTS 43253 MEAN 9.114 ST DEV 4.001
ETH/K
1119
FREQUENCY
0
0
20
EVENTS 43330 MEAN 5.577 ST DEV 1.602
ETH
1323
FREQUENCY
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0
10
EVENTS 42816 MEAN 2.156 ST DEV 0.662
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EVENTS 43296 MEAN 0.727 ST DEV 0.375
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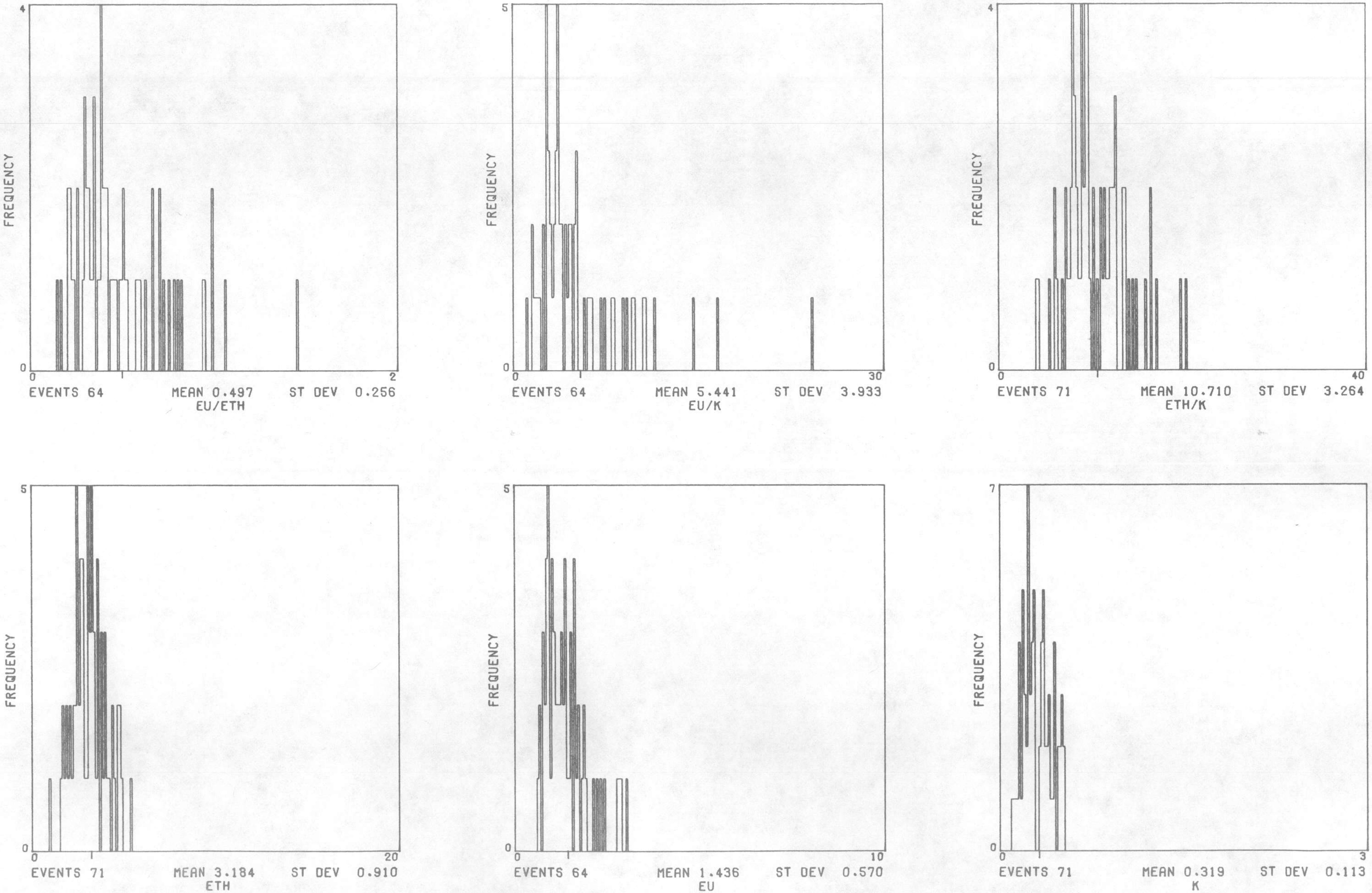
UNIT PVP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EVENTS 64 MEAN 0.497 ST DEV 0.256
EU/ETH
FREQUENCY
EVENTS 64 MEAN 5.441 ST DEV 3.933
EU/K
FREQUENCY
EVENTS 71 MEAN 10.710 ST DEV 3.264
ETH/K
FREQUENCY
EVENTS 71 MEAN 3.184 ST DEV 0.910
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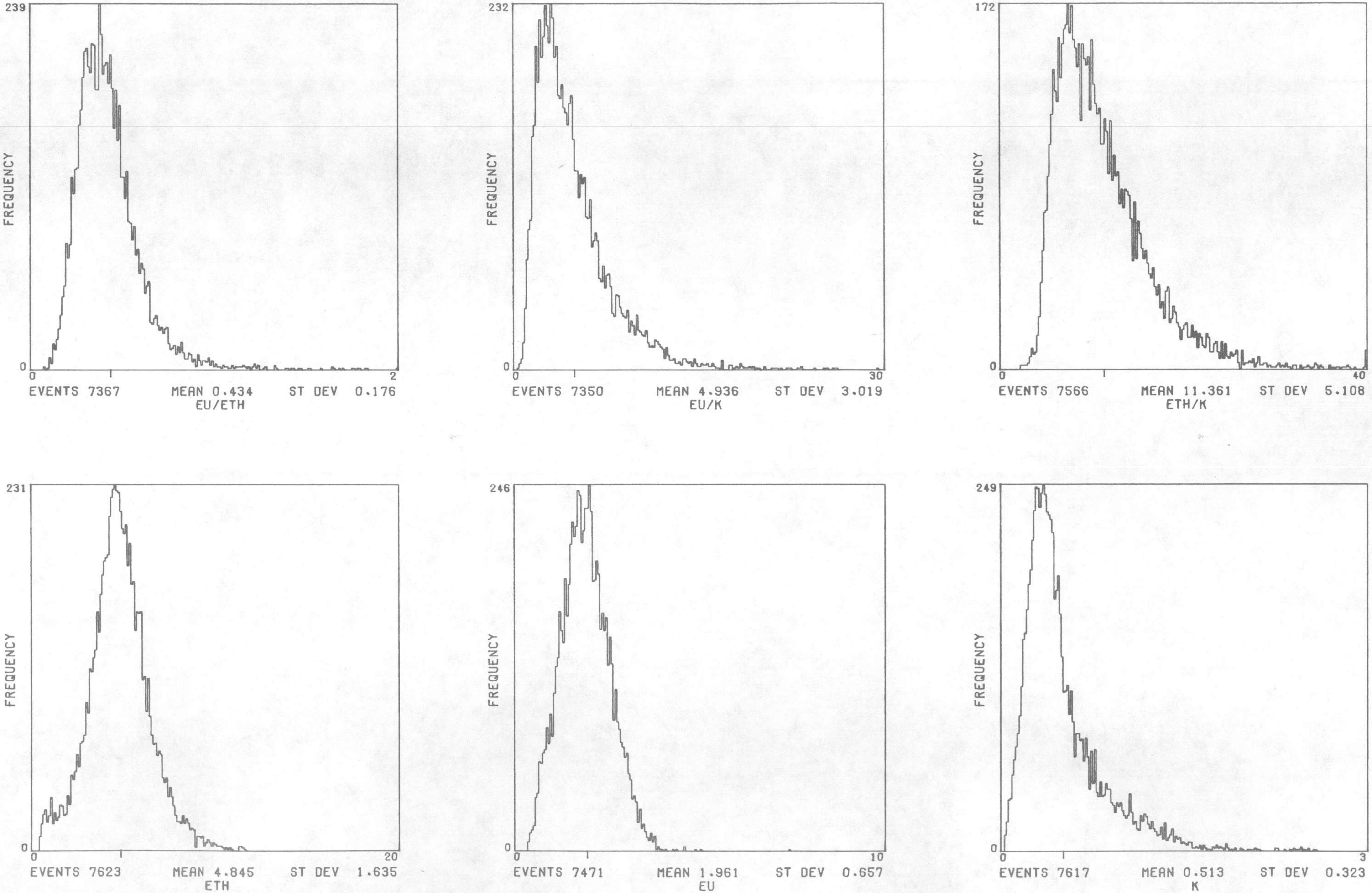
EVENTS 64 MEAN 1.436 ST DEV 0.570
EU
FREQUENCY
EVENTS 71 MEAN 0.319 ST DEV 0.113
K

UNIT PWR


239
FREQUENCY
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EVENTS 7367
MEAN 0.434
ST DEV 0.176
EU/ETH
232
FREQUENCY
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EVENTS 7350
MEAN 4.936
ST DEV 3.019
EU/K
172
FREQUENCY
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EVENTS 7566
MEAN 11.361
ST DEV 5.108
ETH/K
231
FREQUENCY
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0
20
EVENTS 7623
MEAN 4.845
ST DEV 1.635
ETH
246
FREQUENCY
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10
EVENTS 7471
MEAN 1.961
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249
FREQUENCY
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EVENTS 7617
MEAN 0.513
ST DEV 0.323
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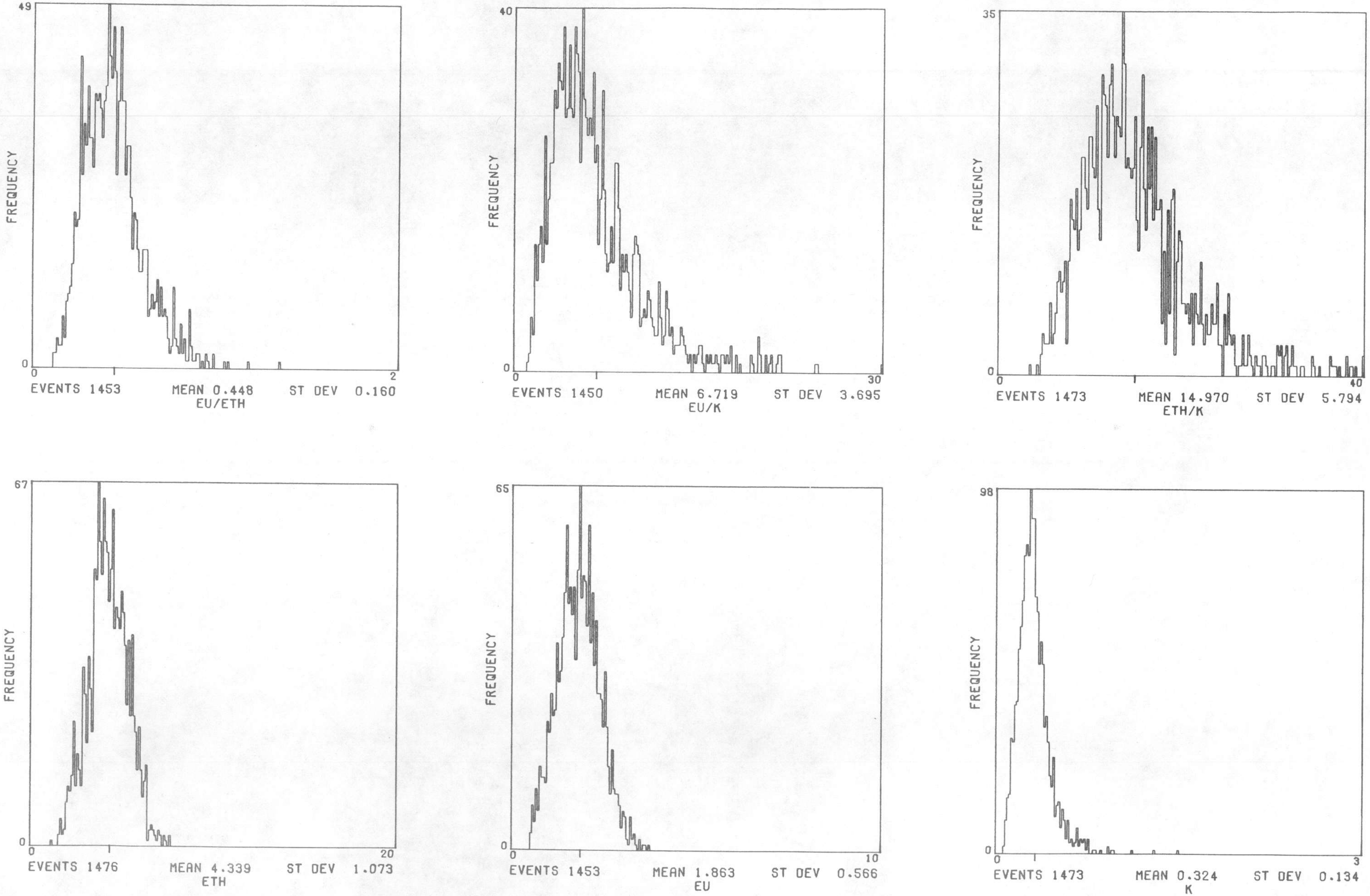
UNIT QAL


49
FREQUENCY
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EVENTS 1453
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ST DEV 0.160
EU/ETH
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FREQUENCY
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30
EVENTS 1450
MEAN 6.719
ST DEV 3.695
EU/K
35
FREQUENCY
0
0
40
EVENTS 1473
MEAN 14.970
ST DEV 5.794
ETH/K
67
FREQUENCY
0
0
20
EVENTS 1476
MEAN 4.339
ST DEV 1.073
ETH
65
FREQUENCY
0
0
10
EVENTS 1453
MEAN 1.863
ST DEV 0.566
EU
98
FREQUENCY
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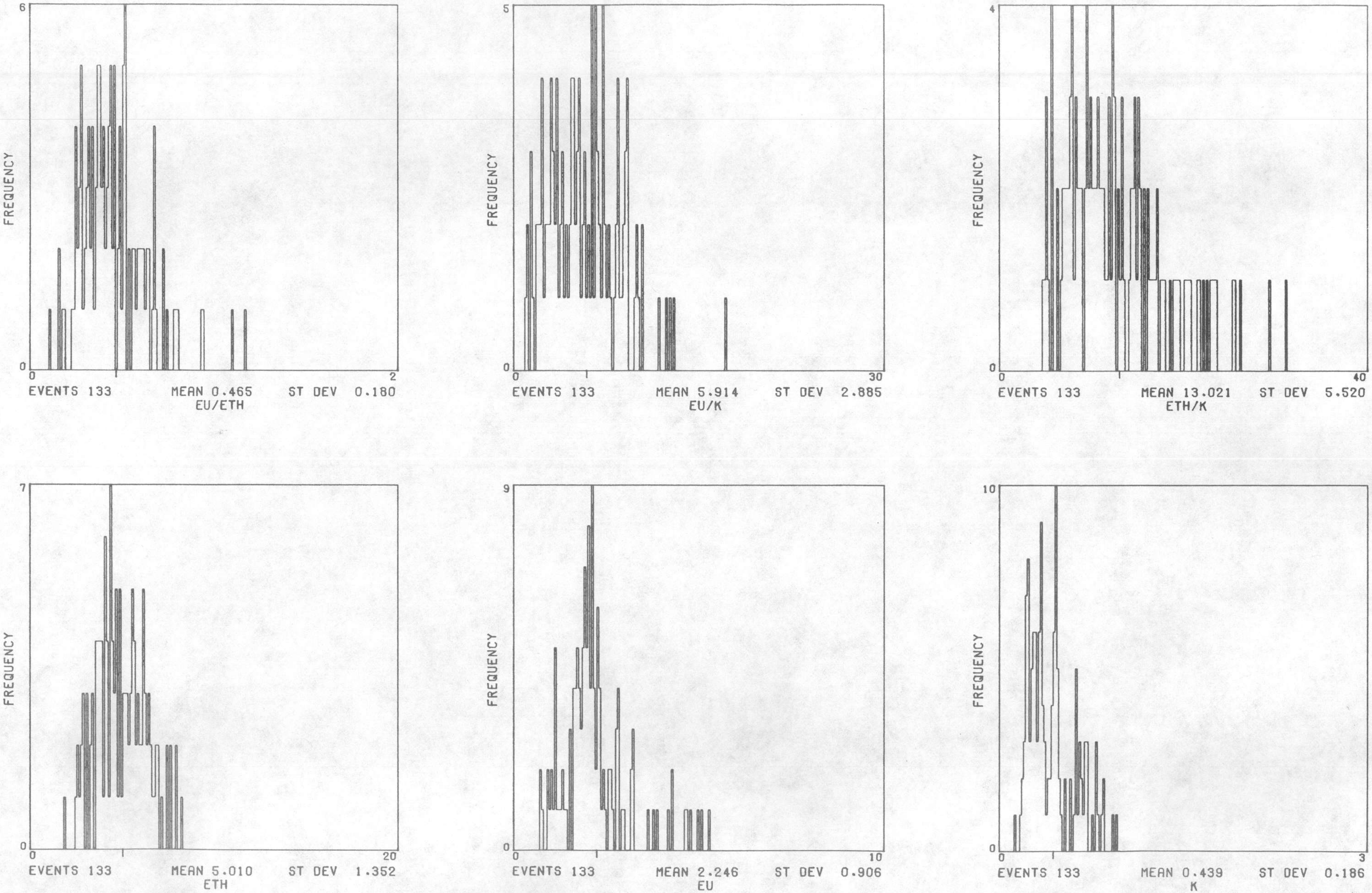
0
3
EVENTS 1473
MEAN 0.324
ST DEV 0.134
K

UNIT QT


FREQUENCY
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0
2
EVENTS 133
MEAN 0.465
ST DEV 0.180
EU/ETH
5
0
30
EVENTS 133
MEAN 5.914
ST DEV 2.885
EU/K
4
40
EVENTS 133
MEAN 13.021
ST DEV 5.520
ETH/K
7
20
EVENTS 133
MEAN 5.010
ST DEV 1.352
ETH
9
10
EVENTS 133
MEAN 2.246
ST DEV 0.906
EU
10
3
EVENTS 133
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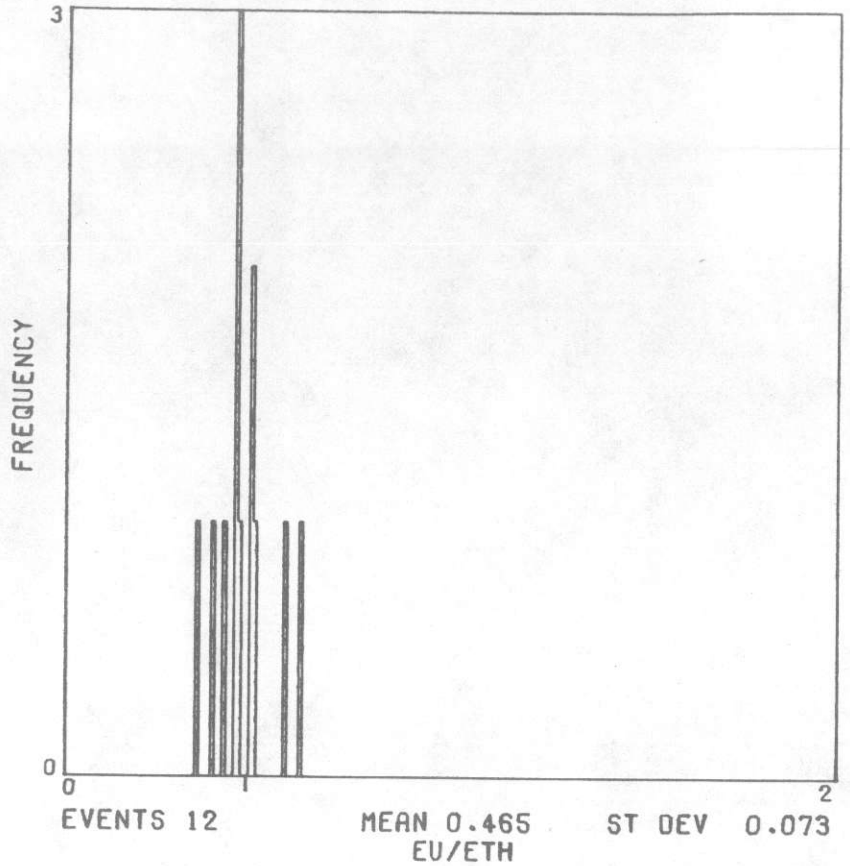
ST DEV 0.186
K

UNIT SC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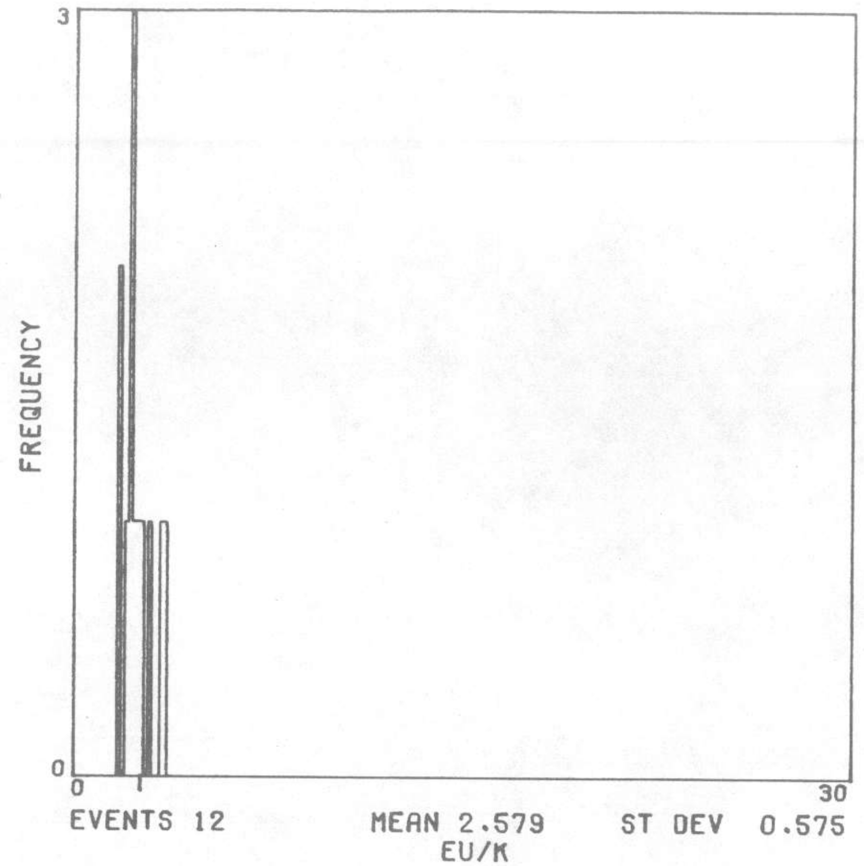
ST DEV 0.073
EU/ETH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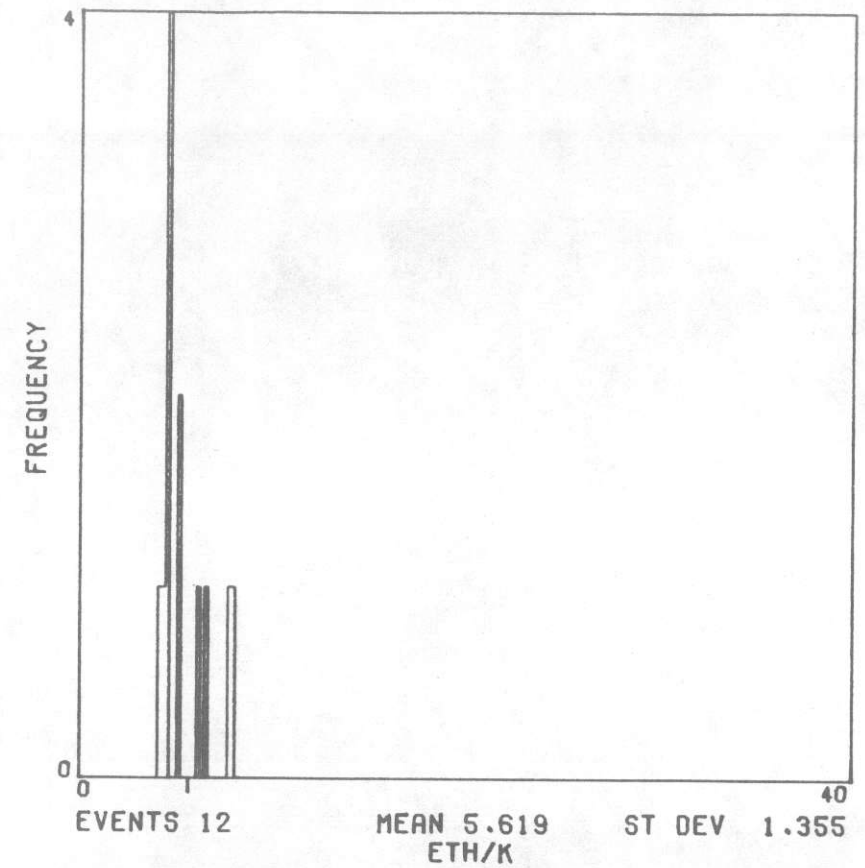
EU/K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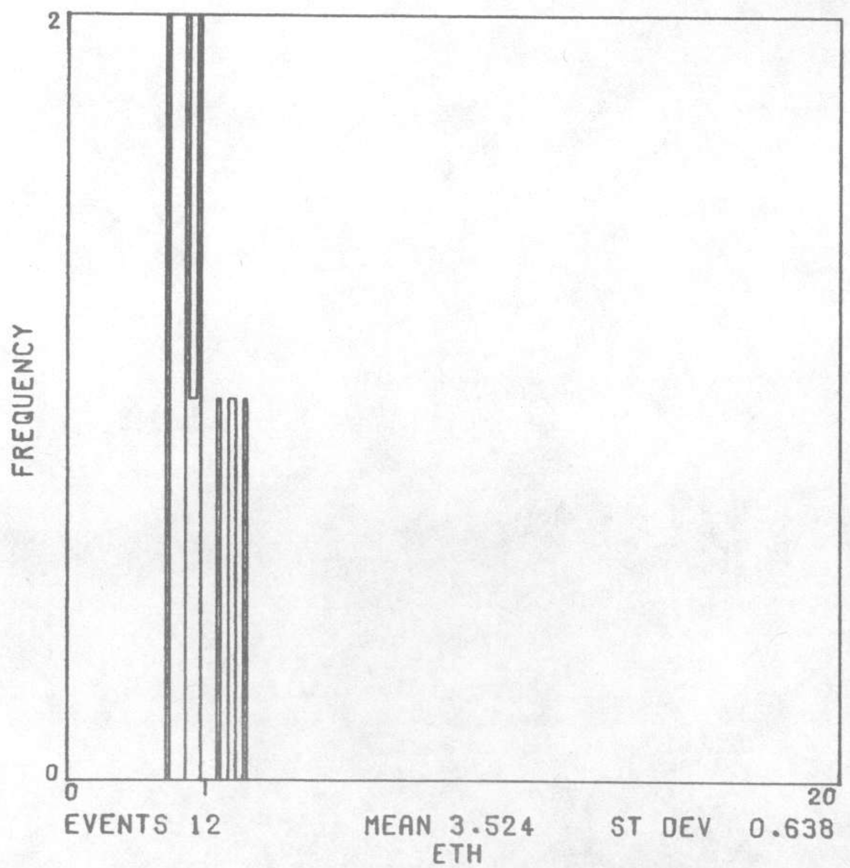
MEAN 5.619
ST DEV 1.355
ETH/K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FREQUENCY
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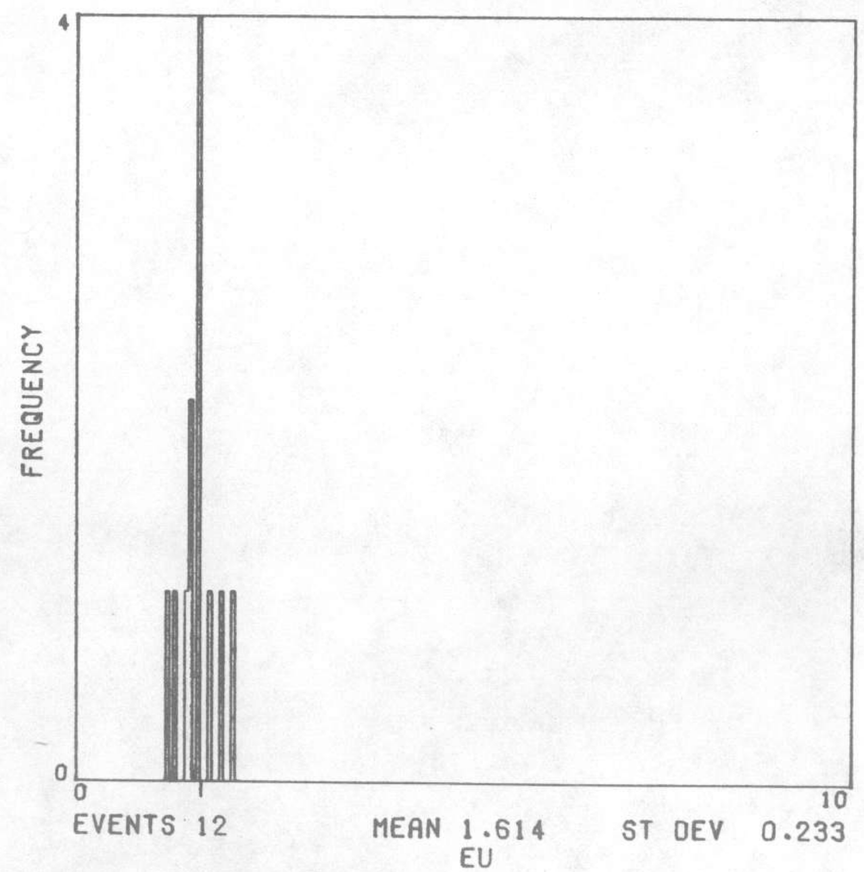
20
EVENTS 12
MEAN 3.524
ST DEV 0.638
ETH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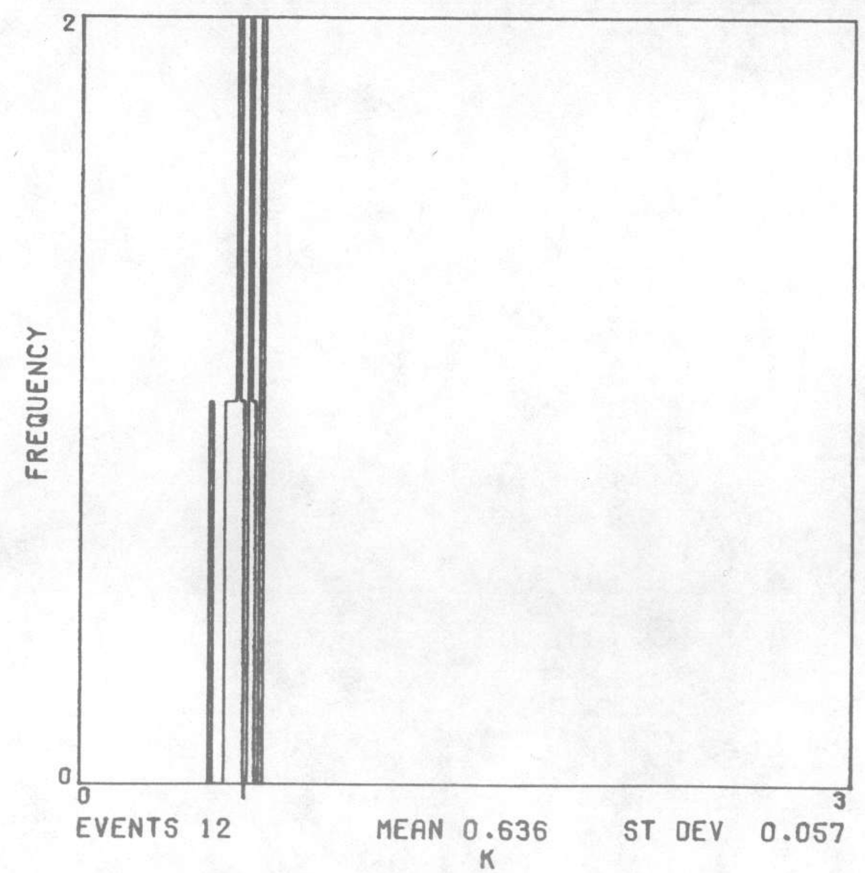
EVENTS 12
MEAN 1.614
ST DEV 0.233
EU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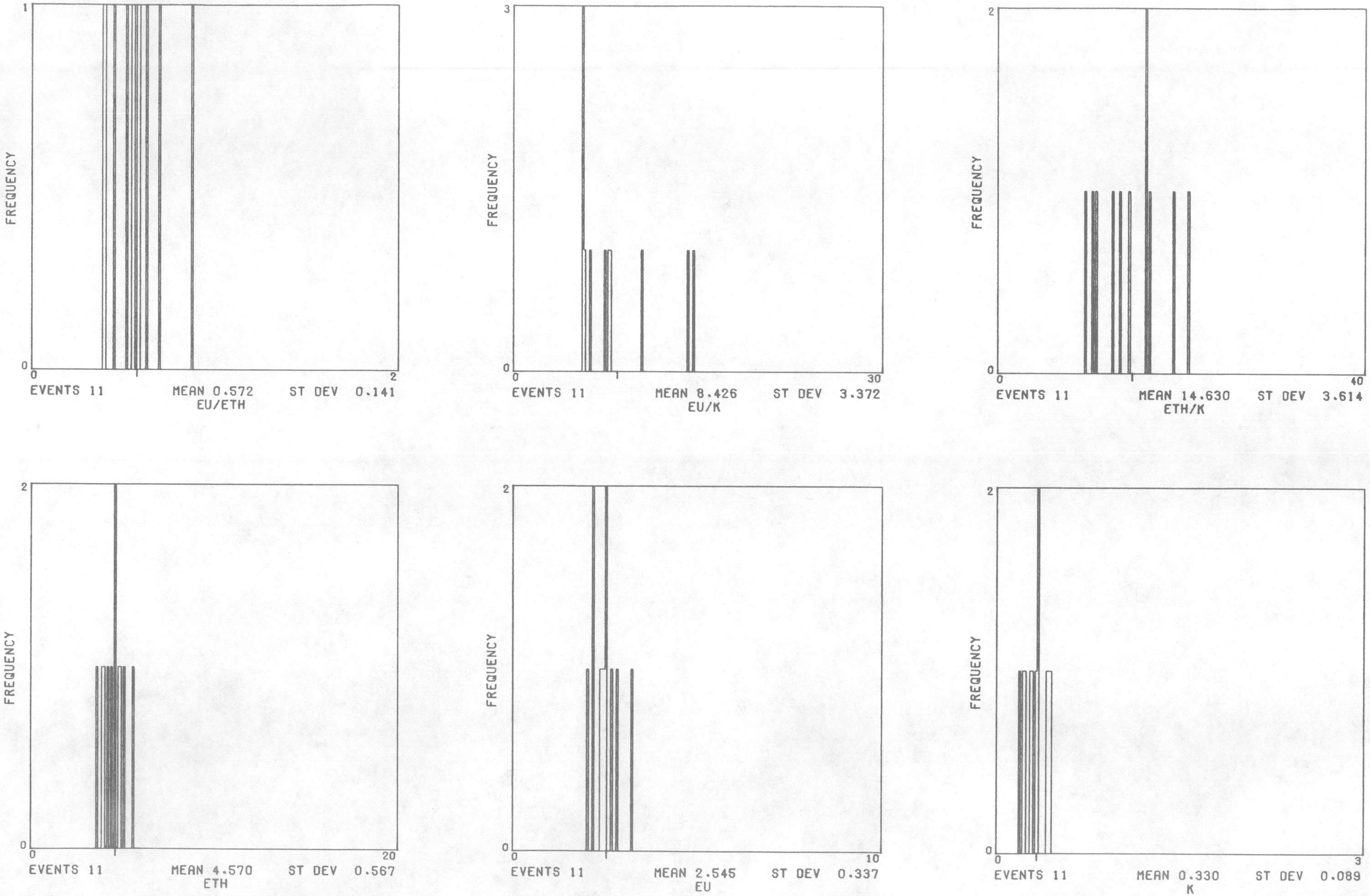
UNIT S0



FREQUENCY
1
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0
2
EVENTS 11
MEAN 0.572
ST DEV 0.141
EU/ETH
FREQUENCY
3
0
0
30
EVENTS 11
MEAN 8.426
ST DEV 3.372
EU/K
FREQUENCY
2
0
0
40
EVENTS 11
MEAN 14.630
ST DEV 3.614
ETH/K
FREQUENCY
2
0
0
20
EVENTS 11
MEAN 4.570
ST DEV 0.567
ETH
FREQUENCY
2
0
0
10
EVENTS 11
MEAN 2.545
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EU
FREQUENCY
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EVENTS 11
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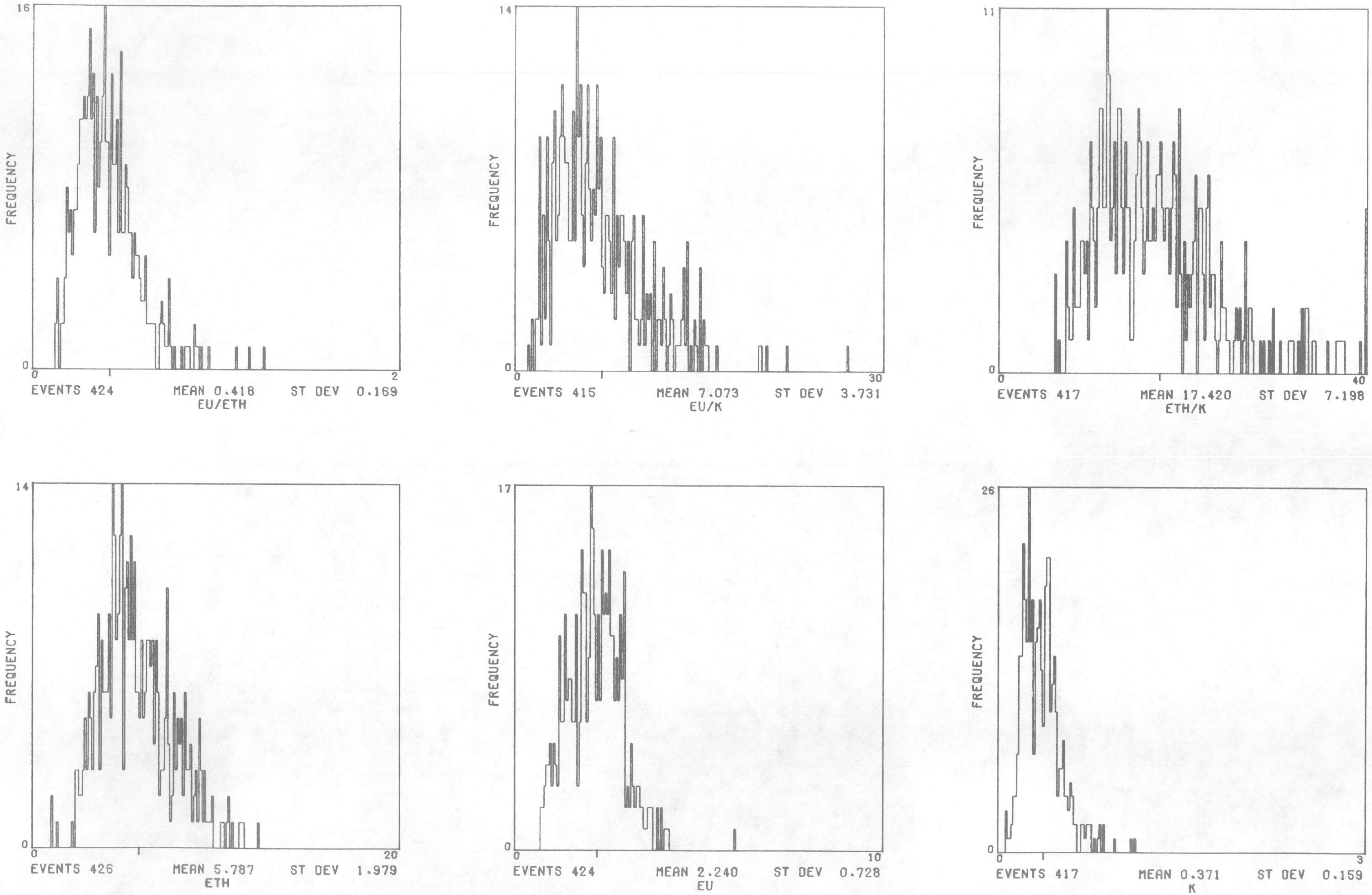
K

UNIT SRE


16
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EVENTS 424
MEAN 0.418
ST DEV 0.169
EU/ETH
14
FREQUENCY
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30
EVENTS 415
MEAN 7.073
ST DEV 3.731
EU/K
11
FREQUENCY
0
0
40
EVENTS 417
MEAN 17.420
ST DEV 7.198
ETH/K
14
FREQUENCY
0
0
20
EVENTS 426
MEAN 5.787
ST DEV 1.979
ETH
17
FREQUENCY
0
0
10
EVENTS 424
MEAN 2.240
ST DEV 0.728
EU
26
FREQUENCY
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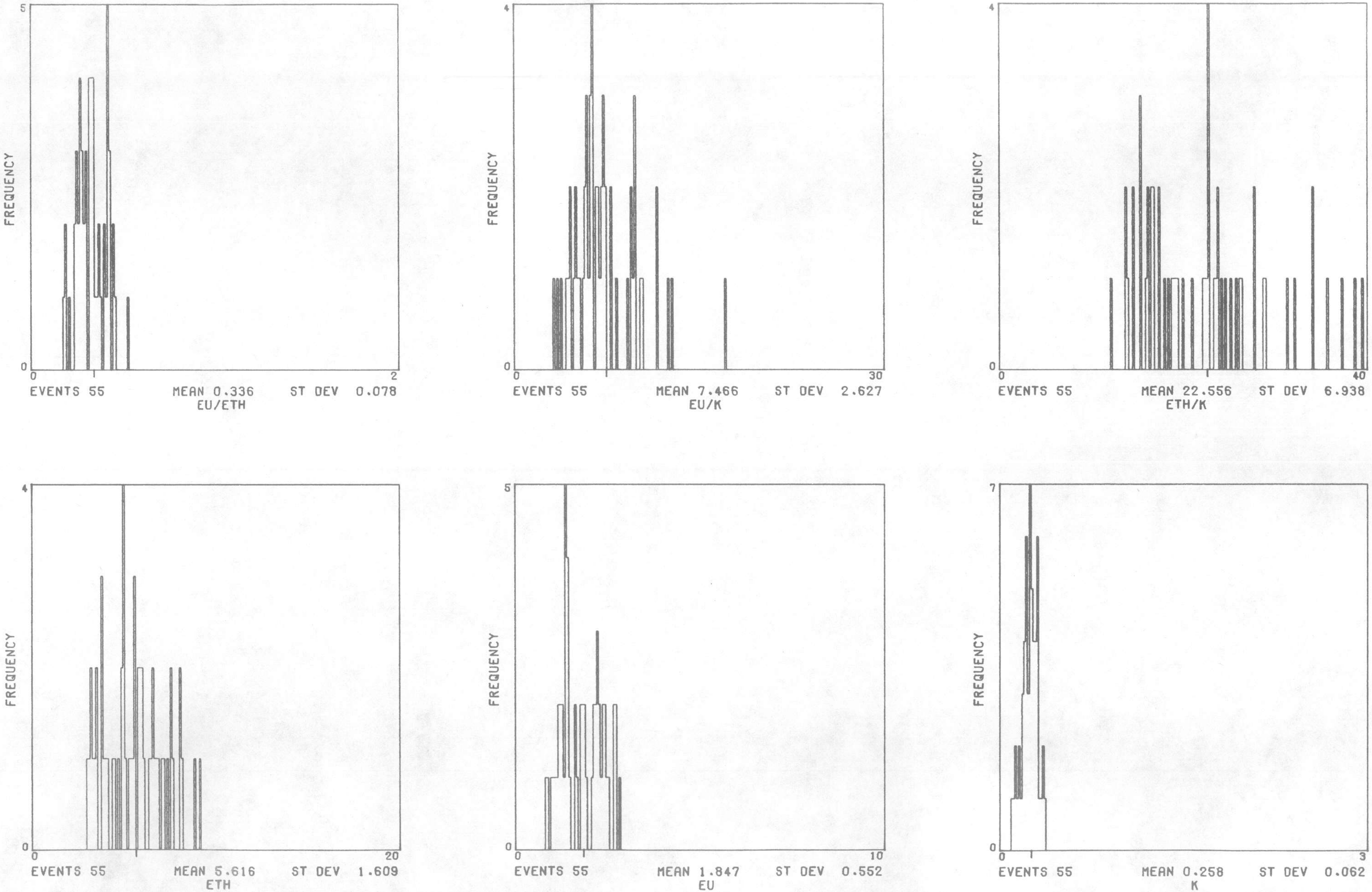
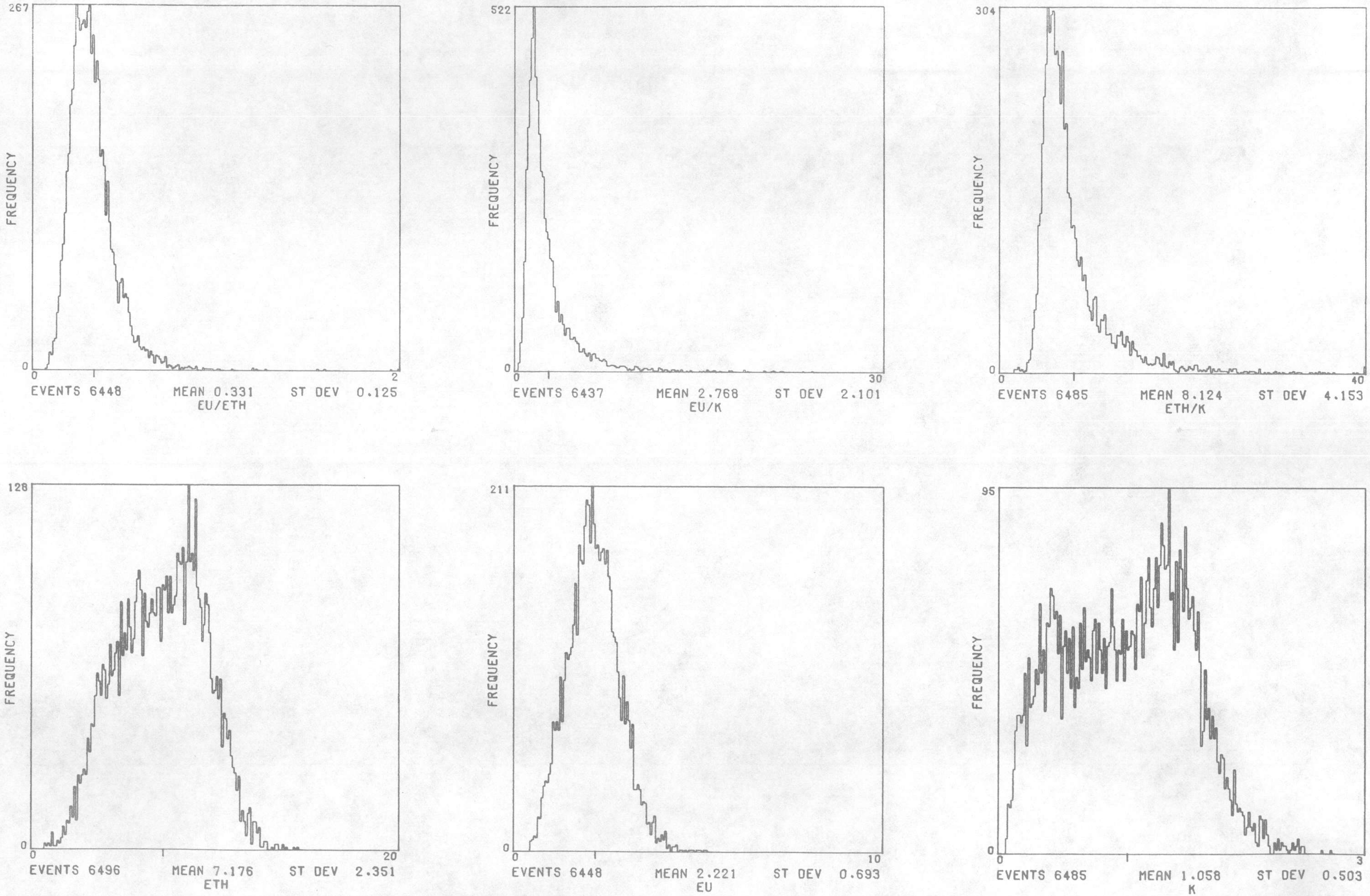
EVENTS 417
MEAN 0.371
ST DEV 0.159
K

UNIT SRM


FREQUENCY
EVENTS 55 MEAN 0.336 ST DEV 0.078
EU/ETH
EVENTS 55 MEAN 7.466 ST DEV 2.627
EU/K
EVENTS 55 MEAN 22.556 ST DEV 6.938
ETH/K
EVENTS 55 MEAN 5.616 ST DEV 1.609
ETH
EVENTS 55 MEAN 1.847 ST DEV 0.552
EU
EVENTS 55 MEAN 0.258 ST DEV 0.062
K

UNIT SRN


267
FREQUENCY
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0
2
EVENTS 6448
MEAN 0.331
ST DEV 0.125
EU/ETH
522
FREQUENCY
0
0
30
EVENTS 6437
MEAN 2.768
ST DEV 2.101
EU/K
304
FREQUENCY
0
0
40
EVENTS 6485
MEAN 8.124
ST DEV 4.153
ETH/K
128
FREQUENCY
0
0
20
EVENTS 6496
MEAN 7.176
ST DEV 2.351
ETH
211
FREQUENCY
0
0
10
EVENTS 6448
MEAN 2.221
ST DEV 0.693
EU
95
FREQUENCY
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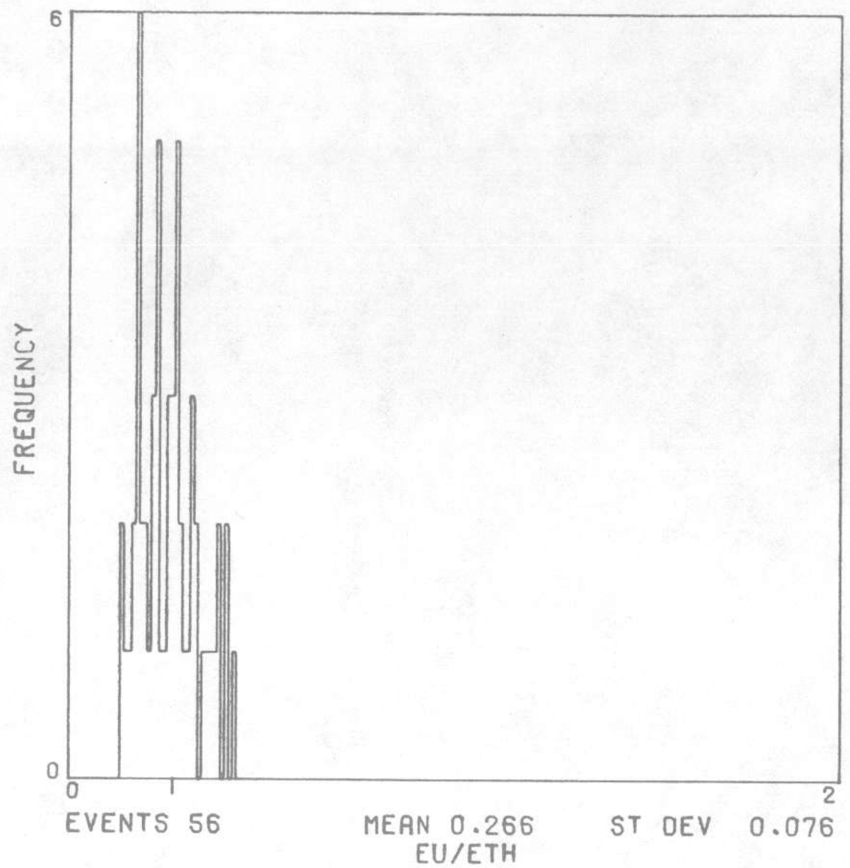
0
3
EVENTS 6485
MEAN 1.058
ST DEV 0.503
K

UNIT TA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FREQUENCY
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2
EVENTS 56
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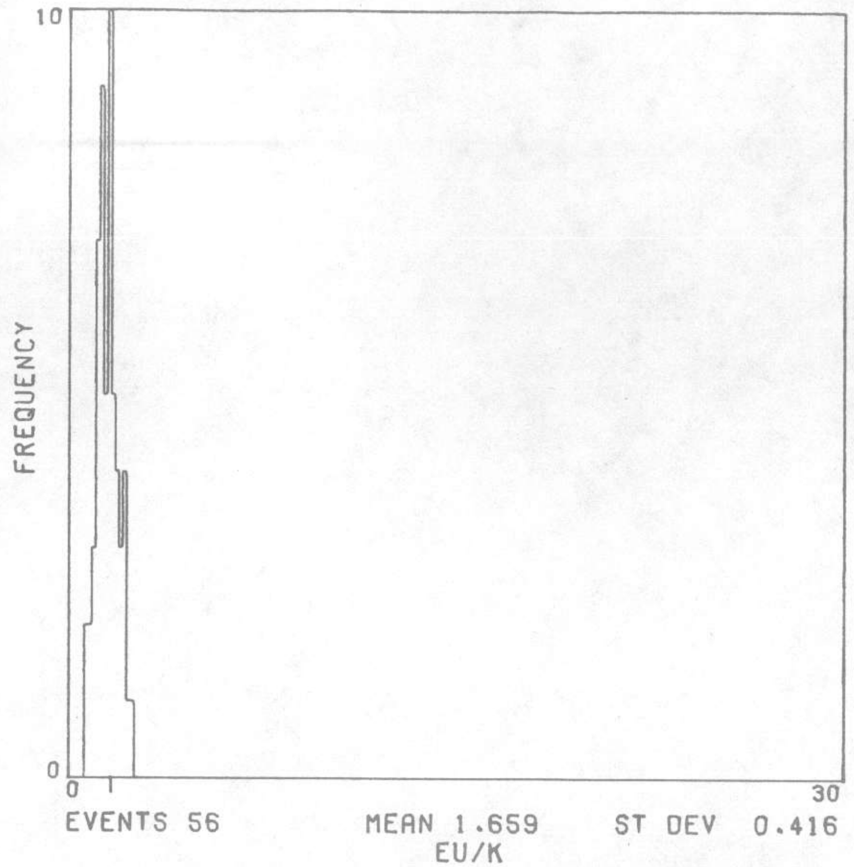
ST DEV 0.076
EU/ETH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FREQUENCY
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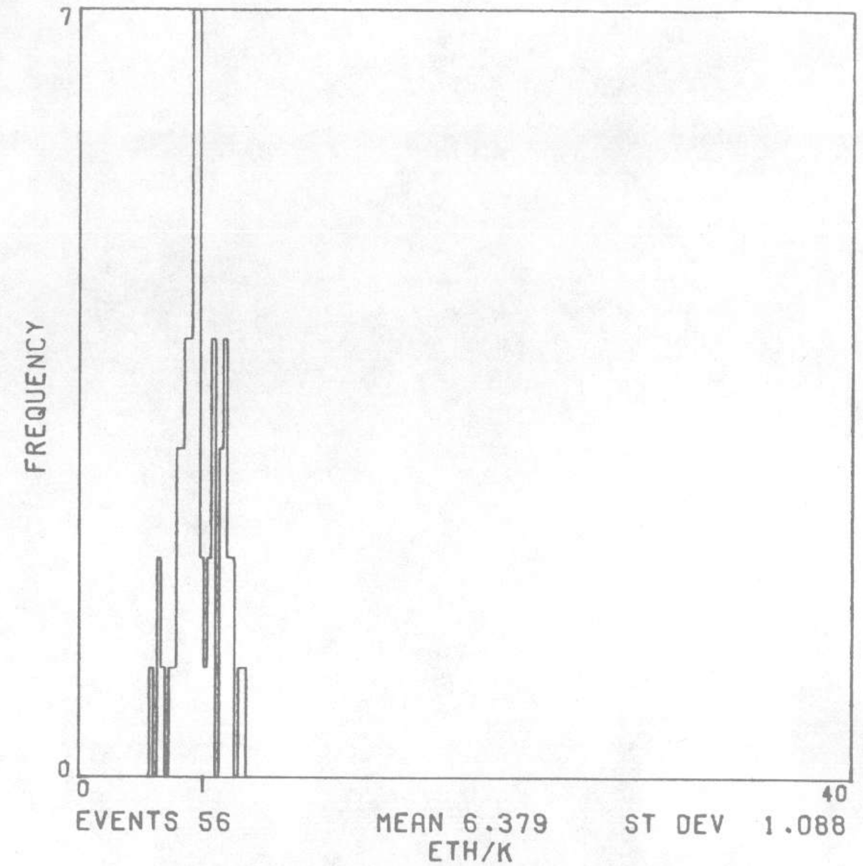
EVENTS 56
MEAN 1.659
ST DEV 0.416
EU/K


7
FREQUENCY
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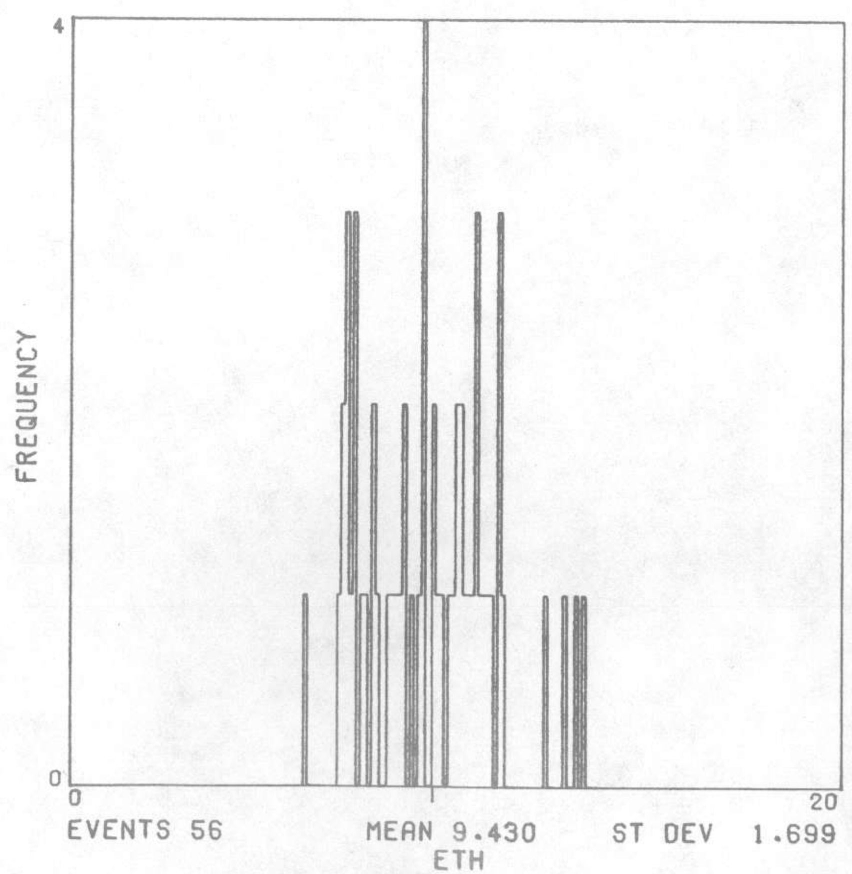
0
40
EVENTS 56
MEAN 6.379
ST DEV 1.088
ETH/K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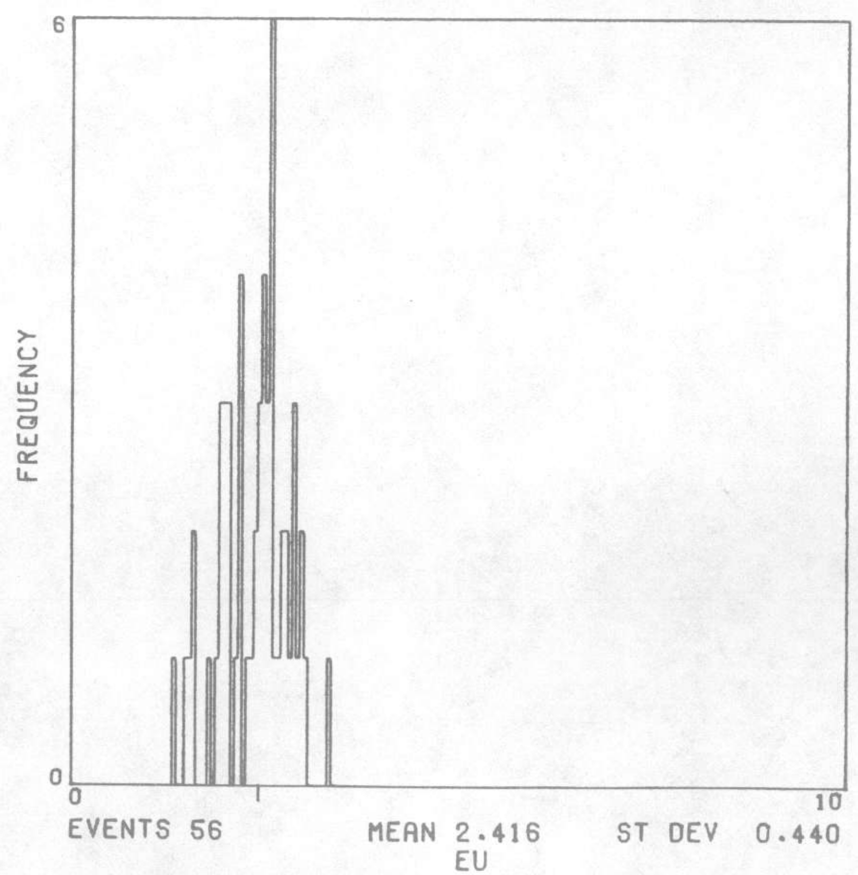
EVENTS 56
MEAN 9.430
ST DEV 1.699
ETH


6
FREQUENCY
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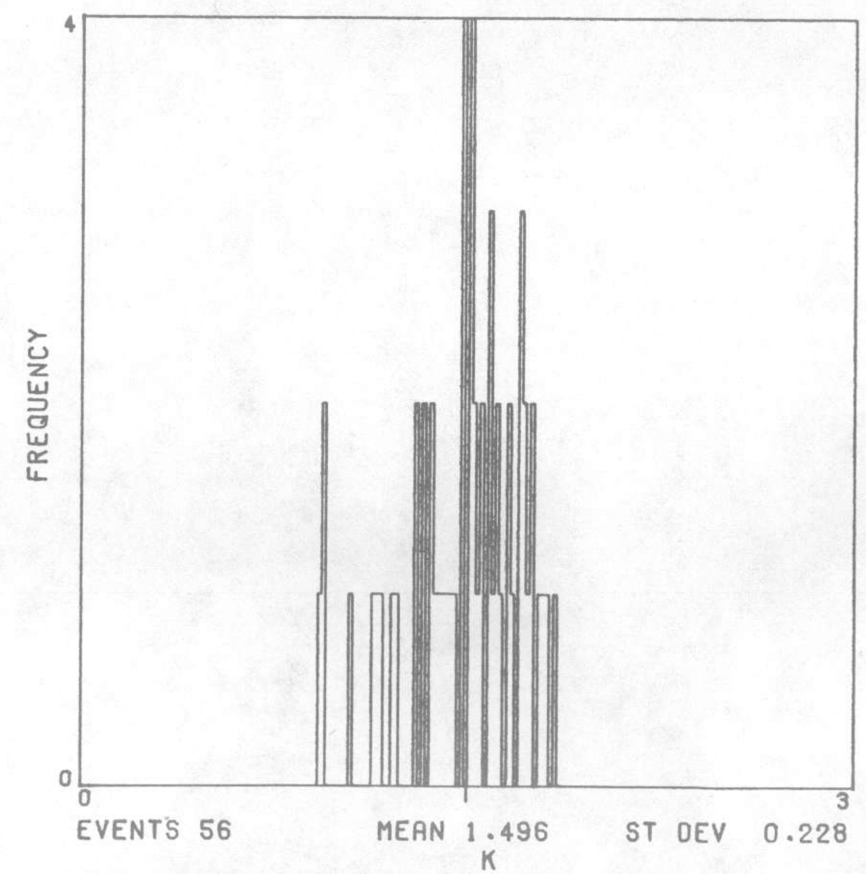
0
10
EVENTS 56
MEAN 2.416
ST DEV 0.440
EU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EVENTS 56
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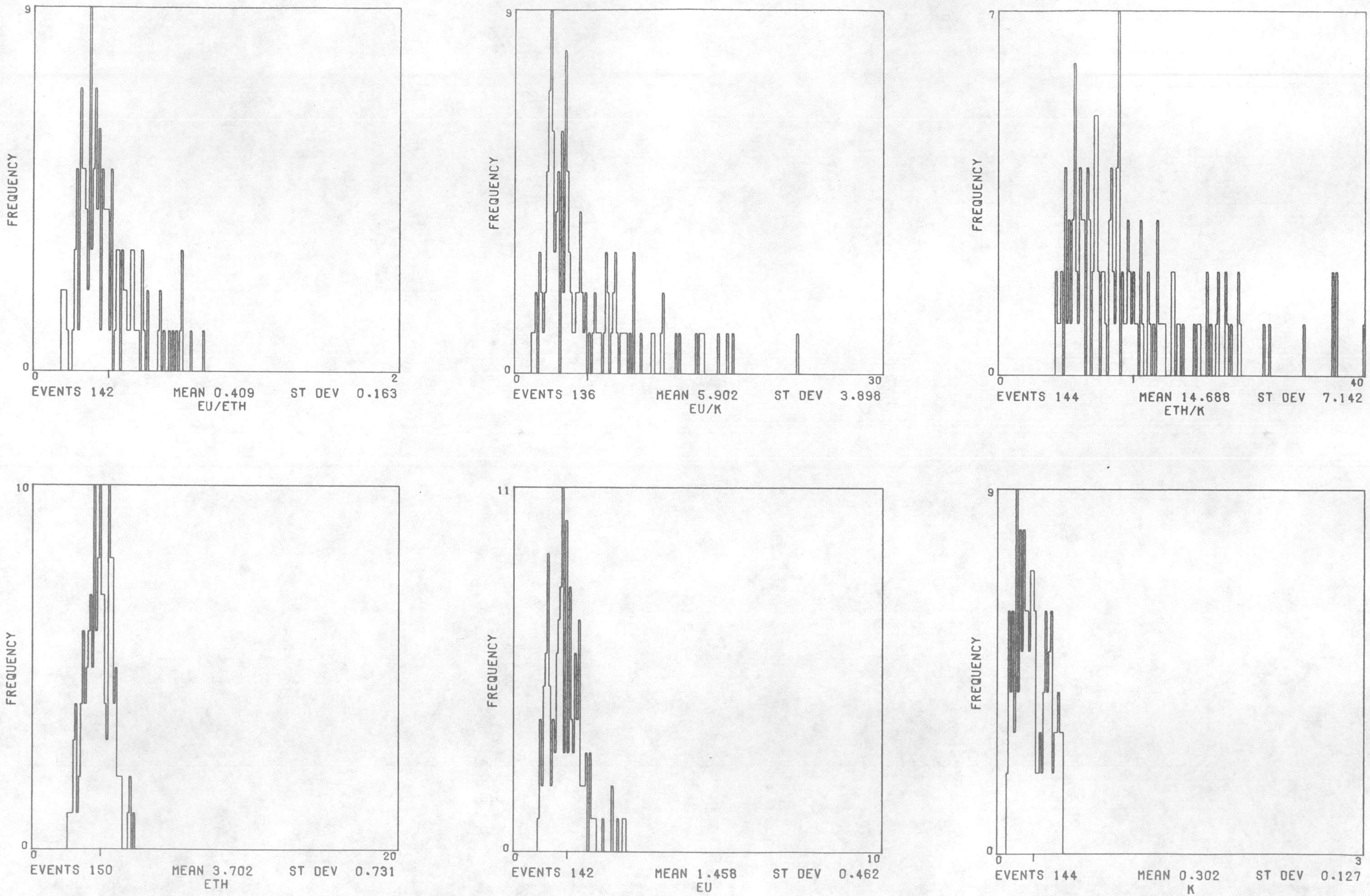
UNIT TB



FREQUENCY
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0
2
EVENTS 142
MEAN 0.409
ST DEV 0.163
EU/ETH
FREQUENCY
9
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0
30
EVENTS 136
MEAN 5.902
ST DEV 3.898
EU/K
FREQUENCY
7
0
0
40
EVENTS 144
MEAN 14.688
ST DEV 7.142
ETH/K
FREQUENCY
10
0
0
20
EVENTS 150
MEAN 3.702
ST DEV 0.731
ETH
FREQUENCY
11
0
0
10
EVENTS 142
MEAN 1.458
ST DEV 0.462
EU
FREQUENCY
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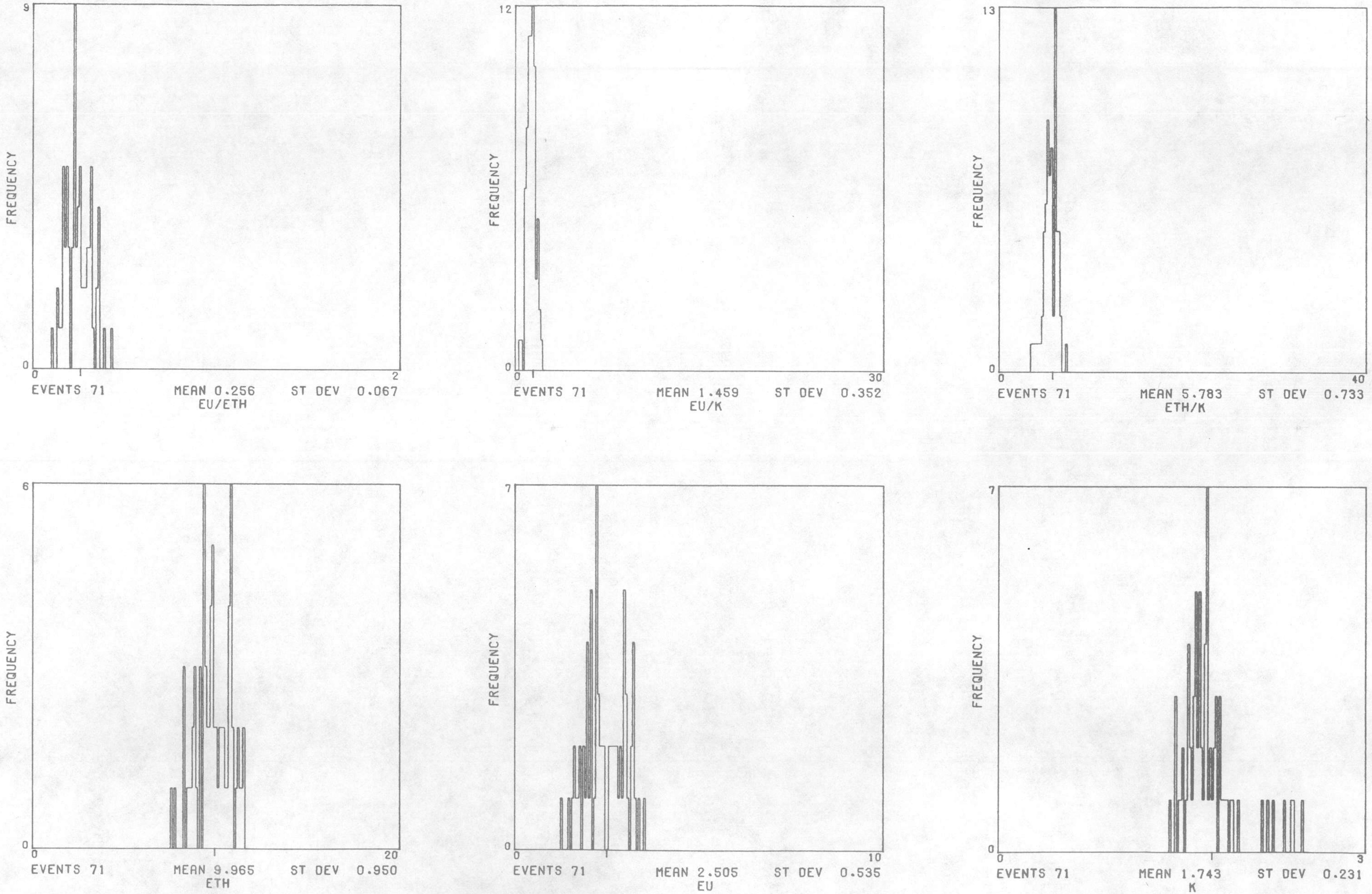
3
EVENTS 144
MEAN 0.302
ST DEV 0.127
K

UNIT TCA


9
FREQUENCY
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0
2
EVENTS 71
MEAN 0.256
ST DEV 0.067
EU/ETH
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FREQUENCY
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30
EVENTS 71
MEAN 1.459
ST DEV 0.352
EU/K
13
FREQUENCY
0
0
40
EVENTS 71
MEAN 5.783
ST DEV 0.733
ETH/K
6
FREQUENCY
0
0
20
EVENTS 71
MEAN 9.965
ST DEV 0.950
ETH
7
FREQUENCY
0
0
10
EVENTS 71
MEAN 2.505
ST DEV 0.535
EU
7
FREQUENCY
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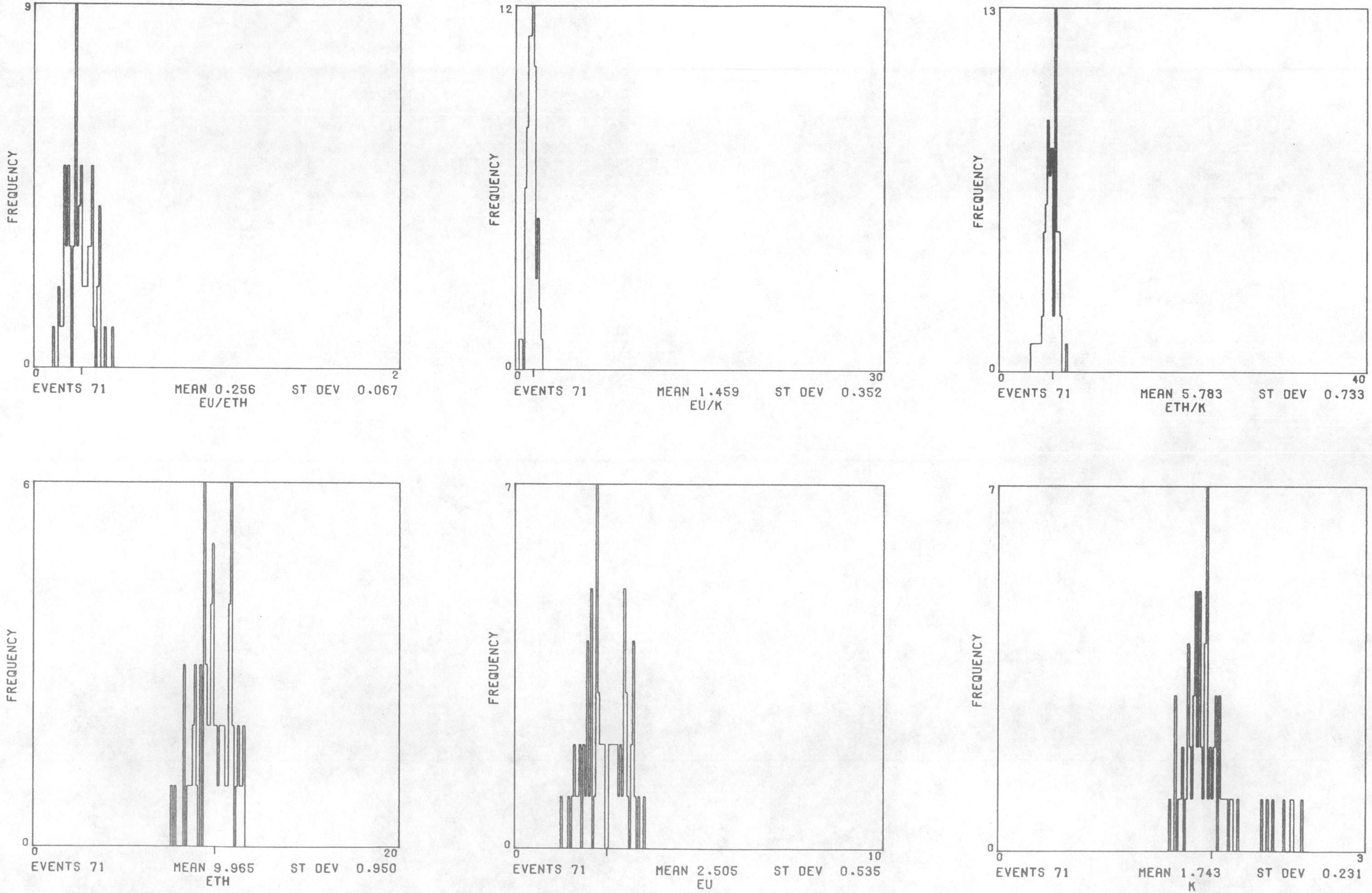
0
3
EVENTS 71
MEAN 1.743
ST DEV 0.231
K

UNIT TFS


FREQUENCY
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0
0
2
EVENTS 71
MEAN 0.256
ST DEV 0.067
EU/ETH
12
0
0
30
EVENTS 71
MEAN 1.459
ST DEV 0.352
EU/K
13
0
0
40
EVENTS 71
MEAN 5.783
ST DEV 0.733
ETH/K
6
0
0
20
EVENTS 71
MEAN 9.965
ST DEV 0.950
ETH
7
0
0
10
EVENTS 71
MEAN 2.505
ST DEV 0.535
EU
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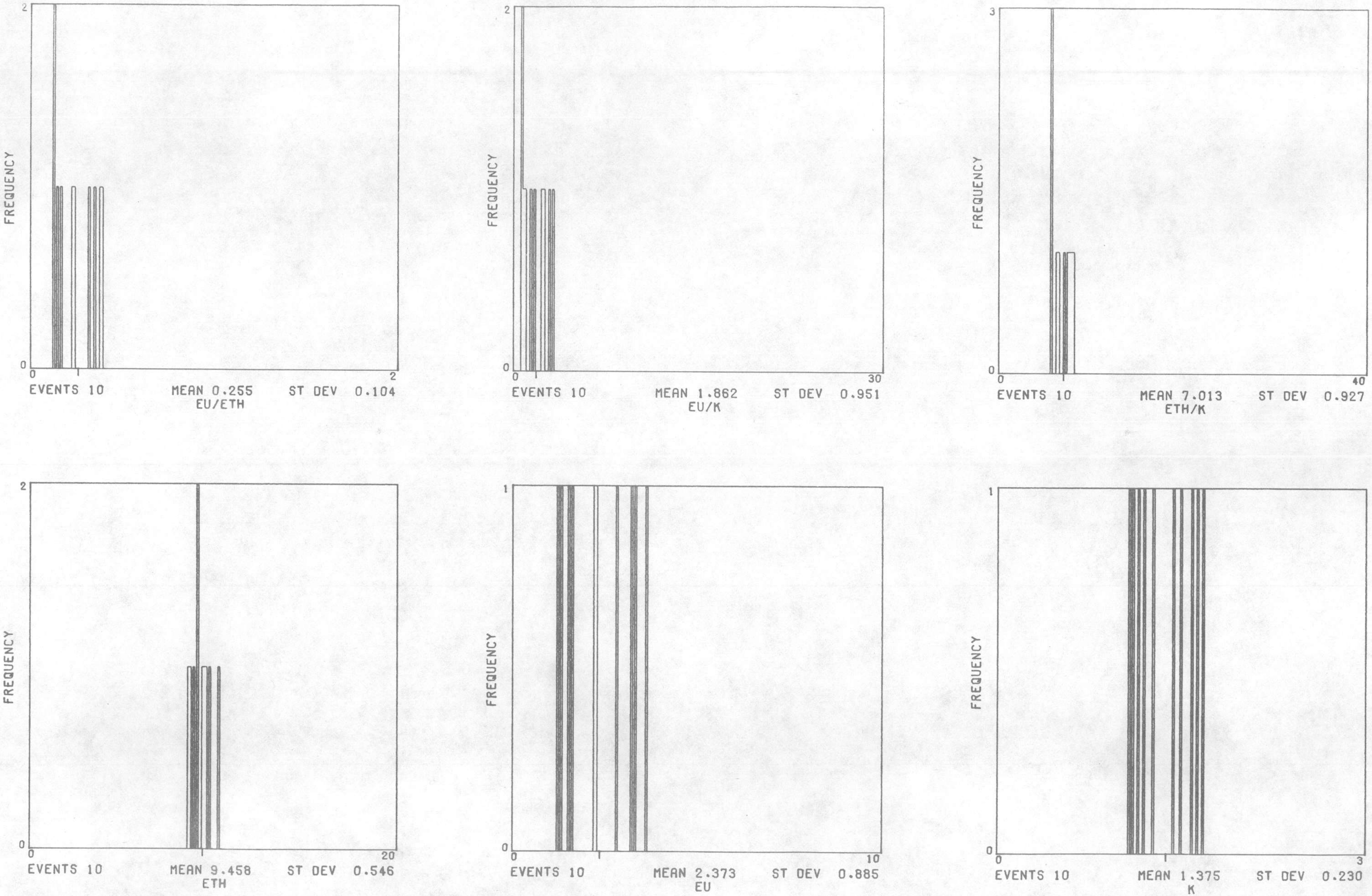
0
0
3
EVENTS 71
MEAN 1.743
ST DEV 0.231
K

UNIT TFS


FREQUENCY
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MEAN 0.255
ST DEV 0.104
EU/ETH
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30
EVENTS 10
MEAN 1.862
ST DEV 0.951
EU/K
FREQUENCY
3
0
0
40
EVENTS 10
MEAN 7.013
ST DEV 0.927
ETH/K
FREQUENCY
2
0
0
20
EVENTS 10
MEAN 9.458
ST DEV 0.546
ETH
FREQUENCY
1
0
0
10
EVENTS 10
MEAN 2.373
ST DEV 0.885
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EVENTS 10
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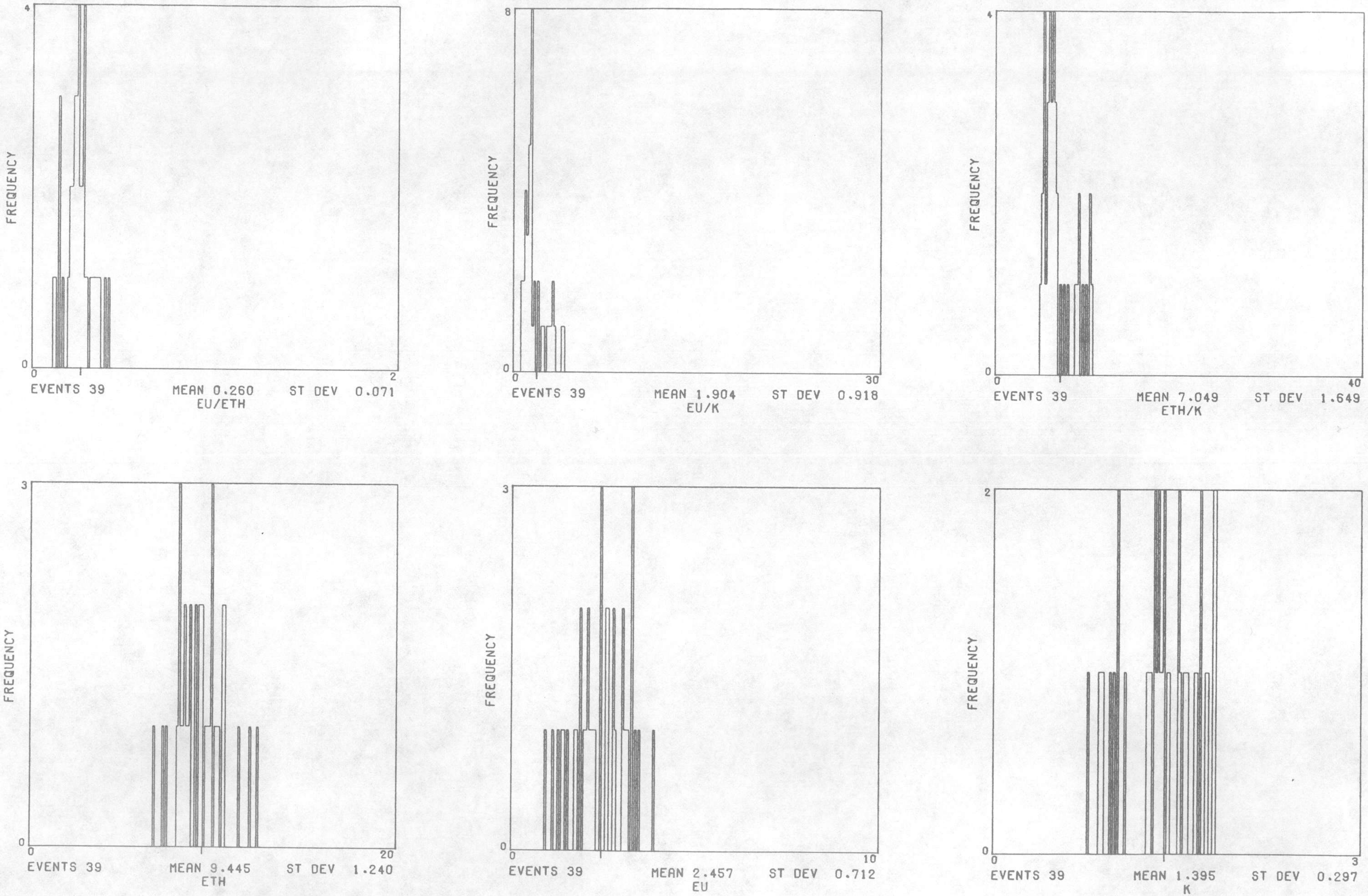
ST DEV 0.230
K

UNIT TJ


FREQUENCY
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MEAN 0.260
ST DEV 0.071
EU/ETH
FREQUENCY
EVENTS 39
MEAN 1.904
ST DEV 0.918
EU/K
FREQUENCY
EVENTS 39
MEAN 7.049
ST DEV 1.649
ETH/K
FREQUENCY
EVENTS 39
MEAN 9.445
ST DEV 1.240
ETH
FREQUENCY
EVENTS 39
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ST DEV 0.712
EU
FREQUENCY
EVENTS 39
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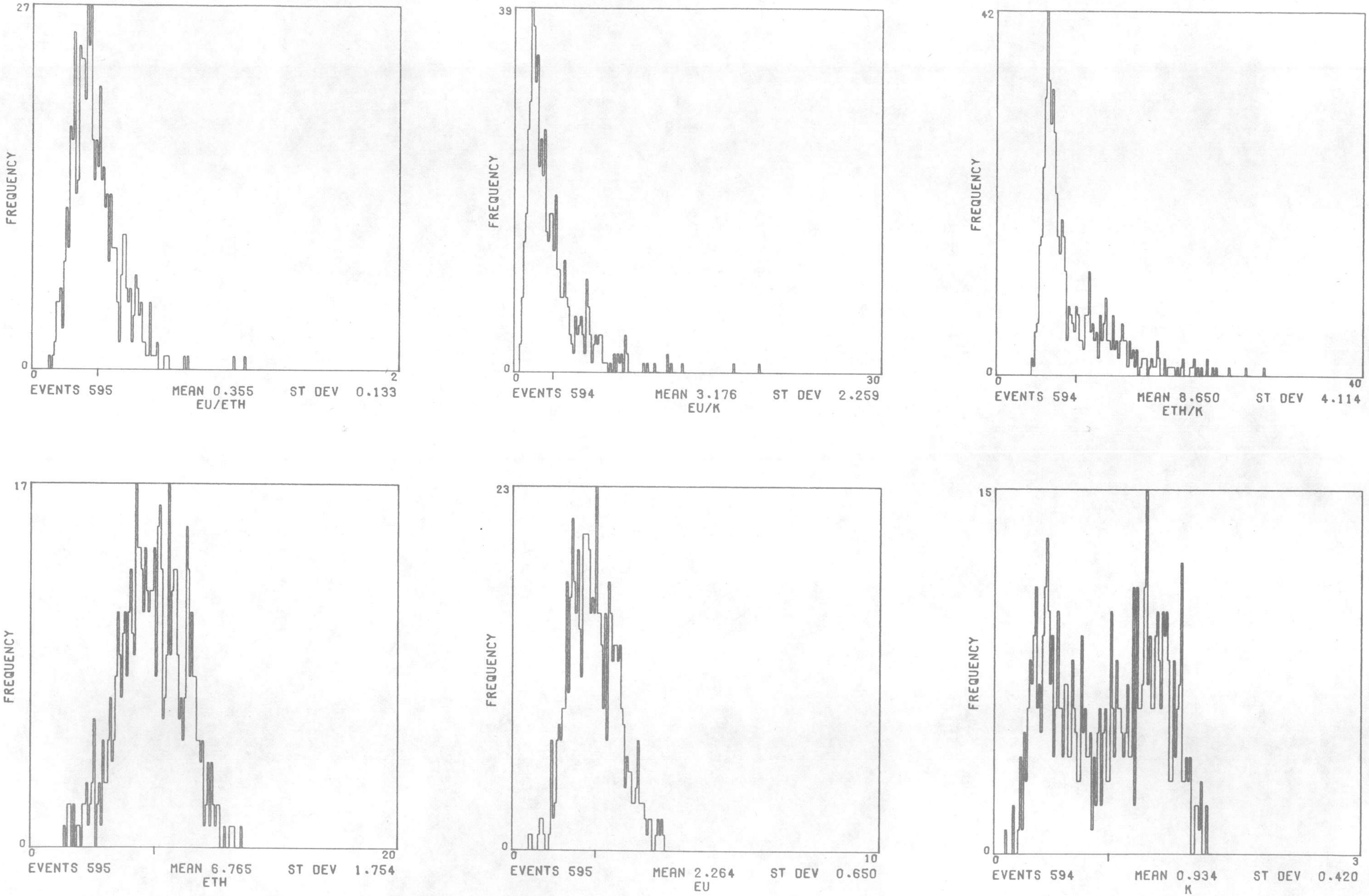
ST DEV 0.297
K

UNIT TS


27
FREQUENCY
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2
EVENTS 595
MEAN 0.355
ST DEV 0.133
EU/ETH
39
FREQUENCY
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30
EVENTS 594
MEAN 3.176
ST DEV 2.259
EU/K
42
FREQUENCY
0
0
40
EVENTS 594
MEAN 8.650
ST DEV 4.114
ETH/K
17
FREQUENCY
0
0
20
EVENTS 595
MEAN 6.765
ST DEV 1.754
ETH
23
FREQUENCY
0
0
10
EVENTS 595
MEAN 2.264
ST DEV 0.650
EU
15
FREQUENCY
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EVENTS 594
MEAN 0.934
ST DEV 0.420
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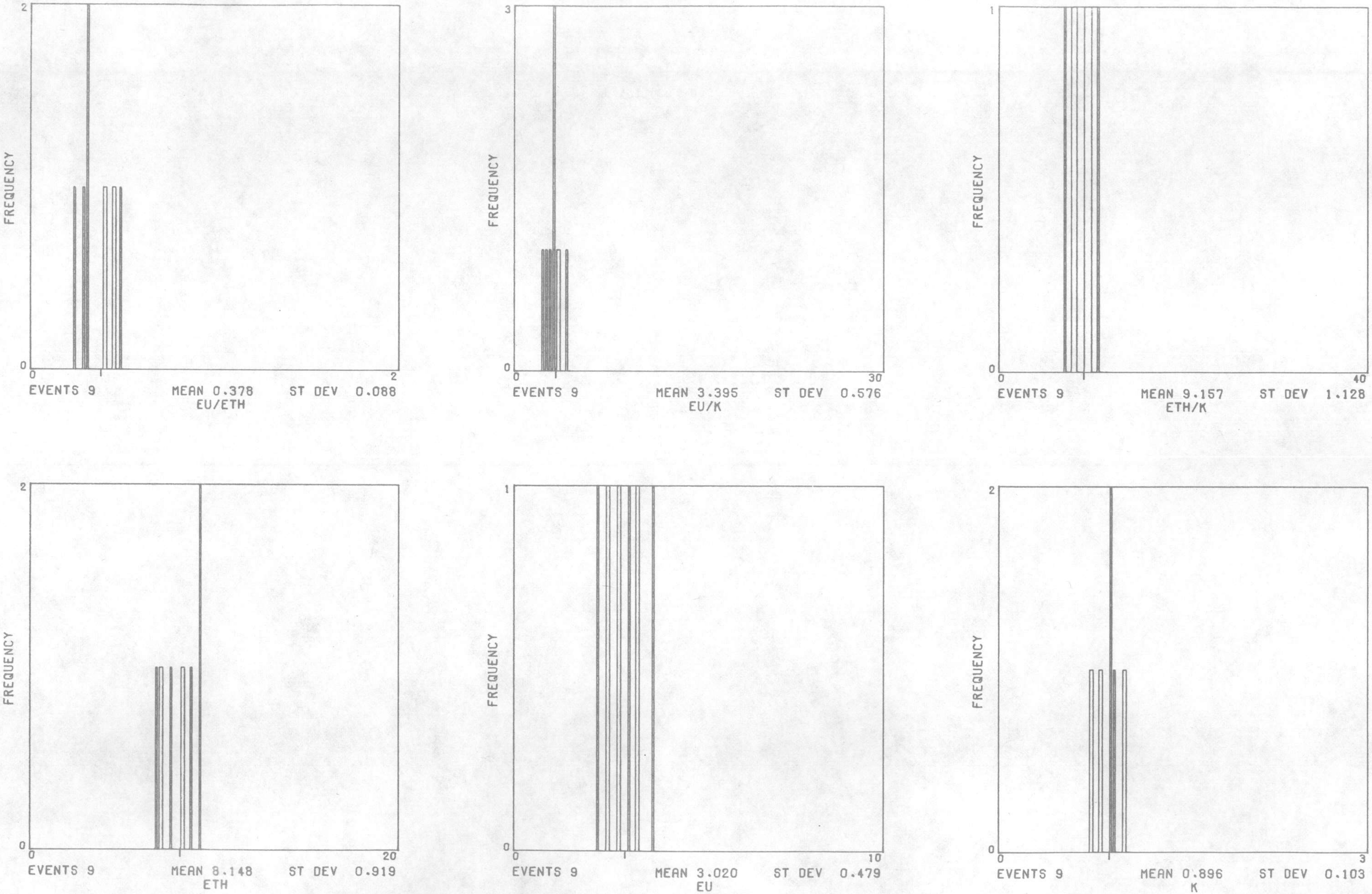
UNIT TSC


FREQUENCY
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EVENTS 9
MEAN 0.378
ST DEV 0.088
EU/ETH
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30
EVENTS 9
MEAN 3.395
ST DEV 0.576
EU/K
FREQUENCY
1
0
0
40
EVENTS 9
MEAN 9.157
ST DEV 1.128
ETH/K
FREQUENCY
2
0
0
20
EVENTS 9
MEAN 8.148
ST DEV 0.919
ETH
FREQUENCY
1
0
0
10
EVENTS 9
MEAN 3.020
ST DEV 0.479
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EVENTS 9
MEAN 0.896
ST DEV 0.103
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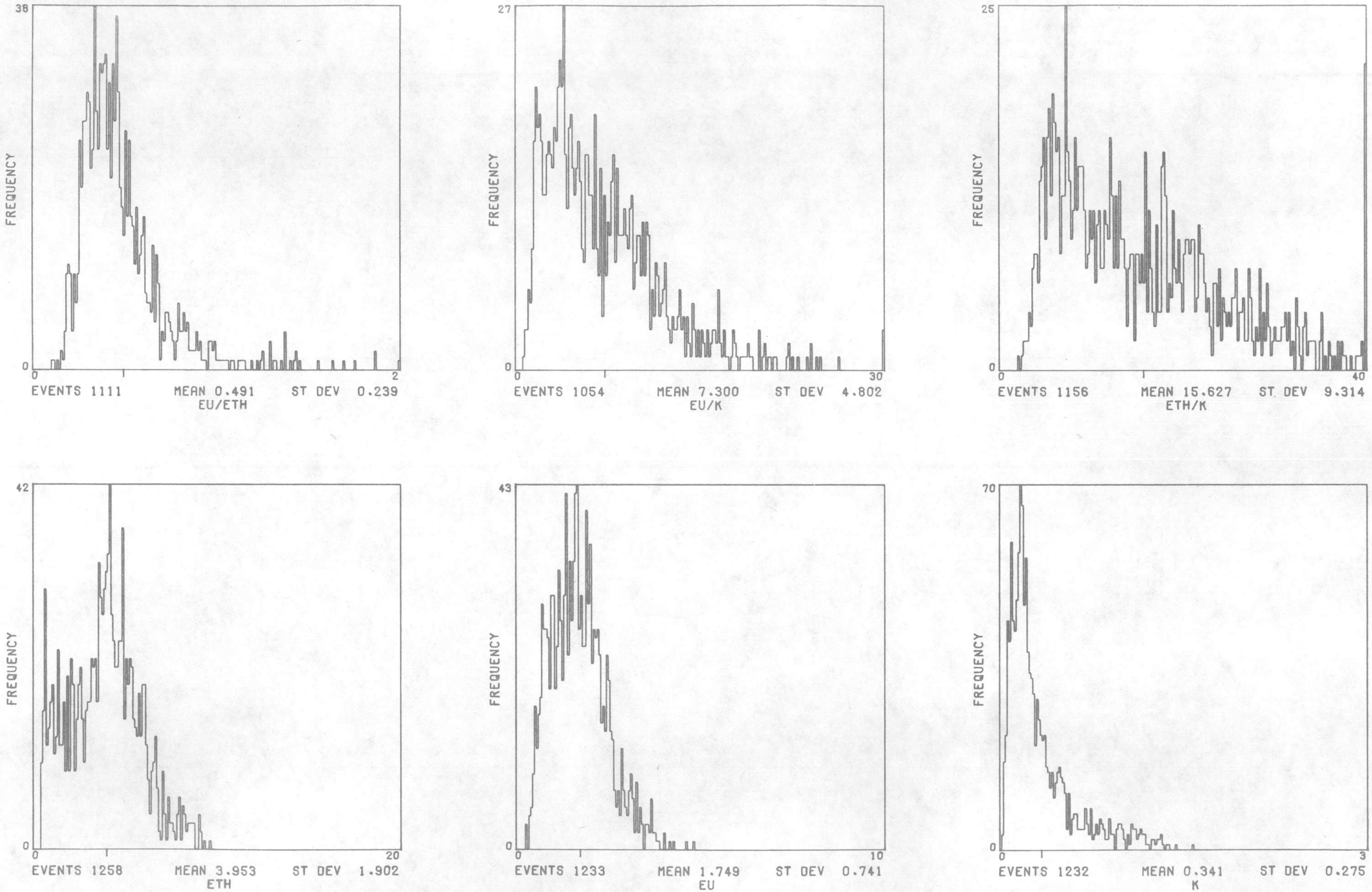
UNIT TSS


38
FREQUENCY
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2
EVENTS 1111
MEAN 0.491
ST DEV 0.239
EU/ETH
27
FREQUENCY
0
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30
EVENTS 1054
MEAN 7.300
ST DEV 4.802
EU/K
25
FREQUENCY
0
0
40
EVENTS 1156
MEAN 15.627
ST DEV 9.314
ETH/K
42
FREQUENCY
0
0
20
EVENTS 1258
MEAN 3.953
ST DEV 1.902
ETH
43
FREQUENCY
0
0
10
EVENTS 1233
MEAN 1.749
ST DEV 0.741
EU
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FREQUENCY
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3
EVENTS 1232
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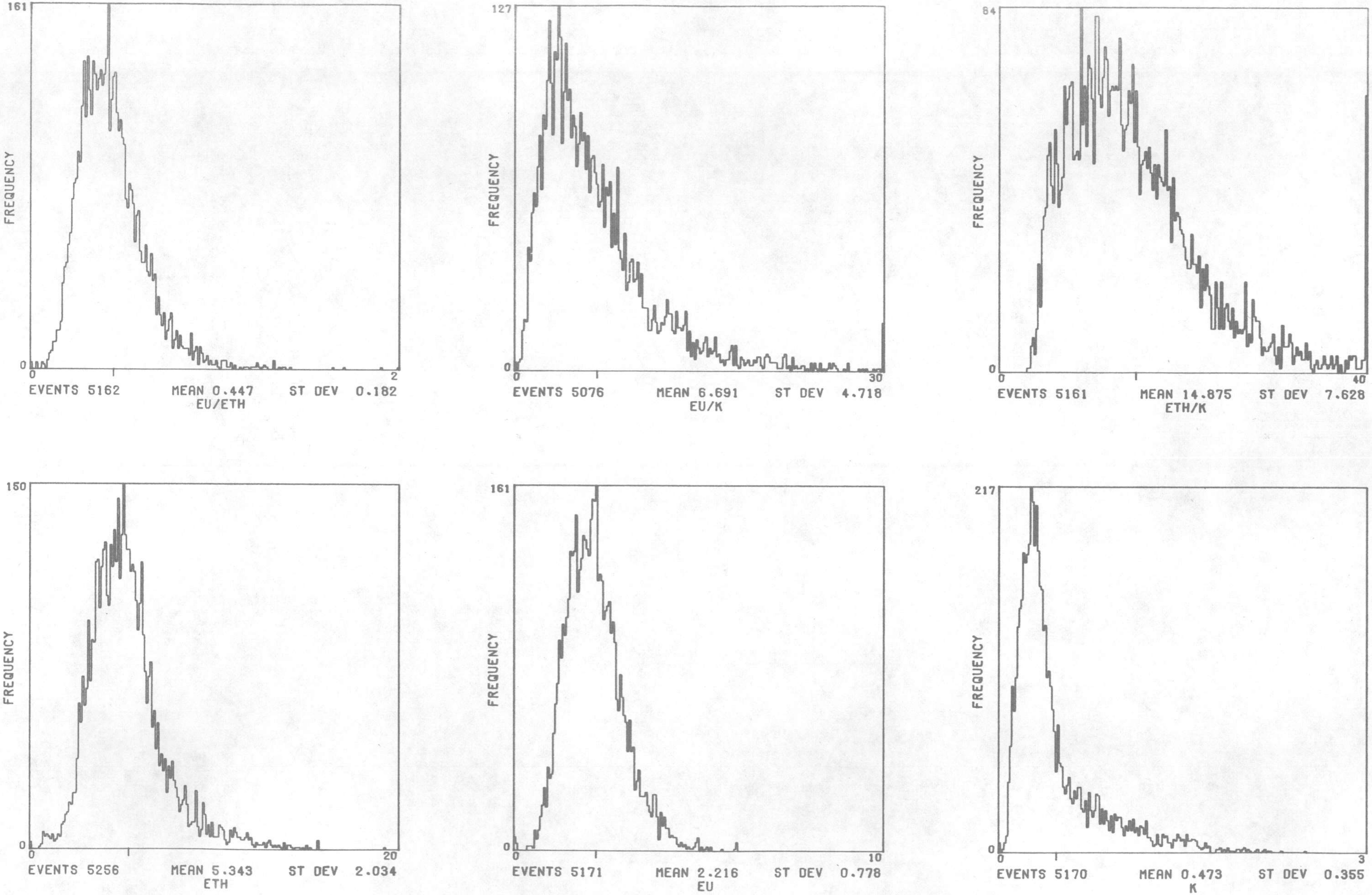
ST DEV 0.275
K

UNIT WA


161
FREQUENCY
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0
2
EVENTS 5162
MEAN 0.447
ST DEV 0.182
EU/ETH
127
FREQUENCY
0
0
30
EVENTS 5076
MEAN 6.691
ST DEV 4.718
EU/K
84
FREQUENCY
0
0
40
EVENTS 5161
MEAN 14.875
ST DEV 7.628
ETH/K
150
FREQUENCY
0
0
20
EVENTS 5256
MEAN 5.343
ST DEV 2.034
ETH
161
FREQUENCY
0
0
10
EVENTS 5171
MEAN 2.216
ST DEV 0.778
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217
FREQUENCY
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EVENTS 5170
MEAN 0.473
ST DEV 0.355
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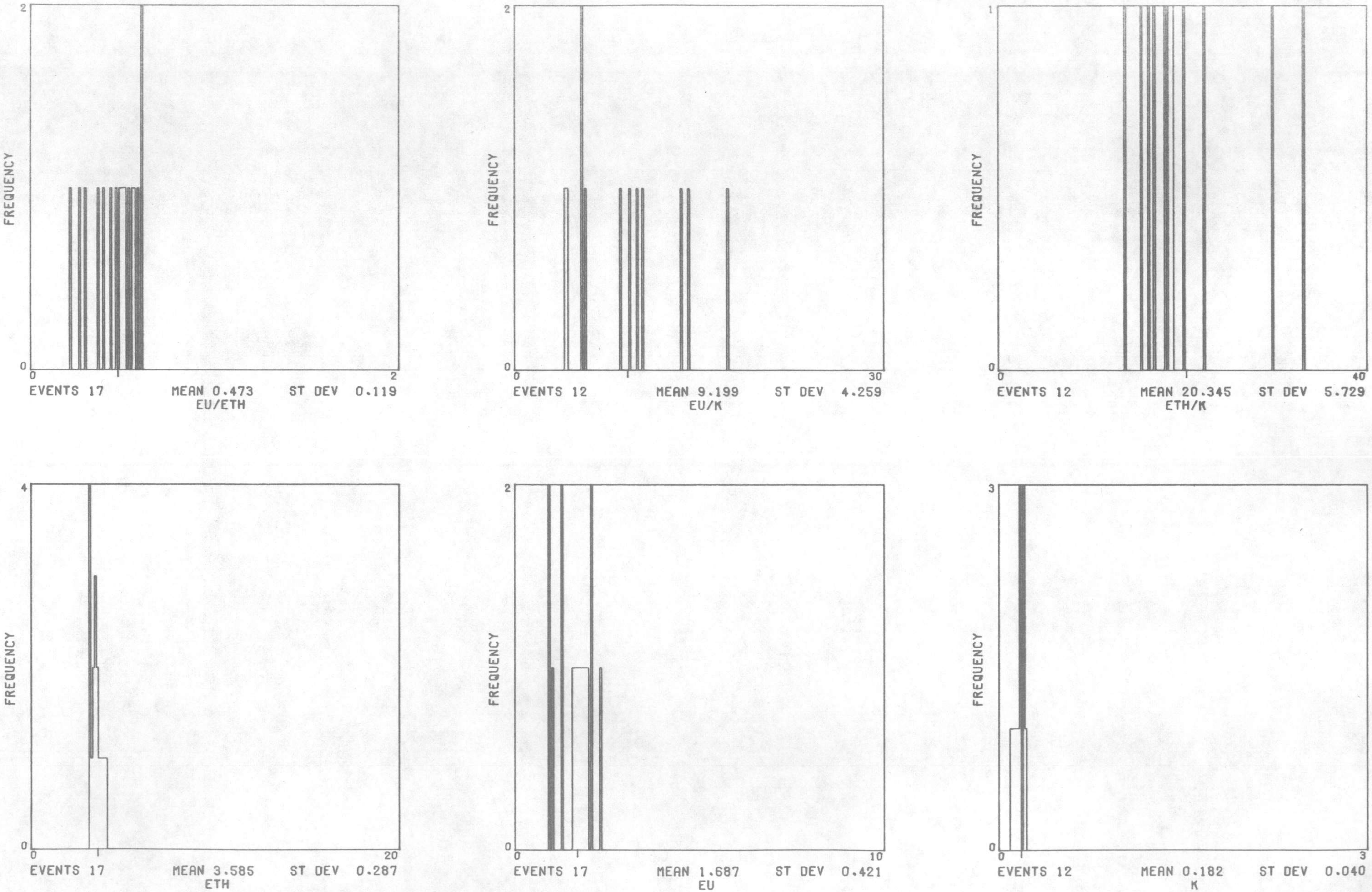
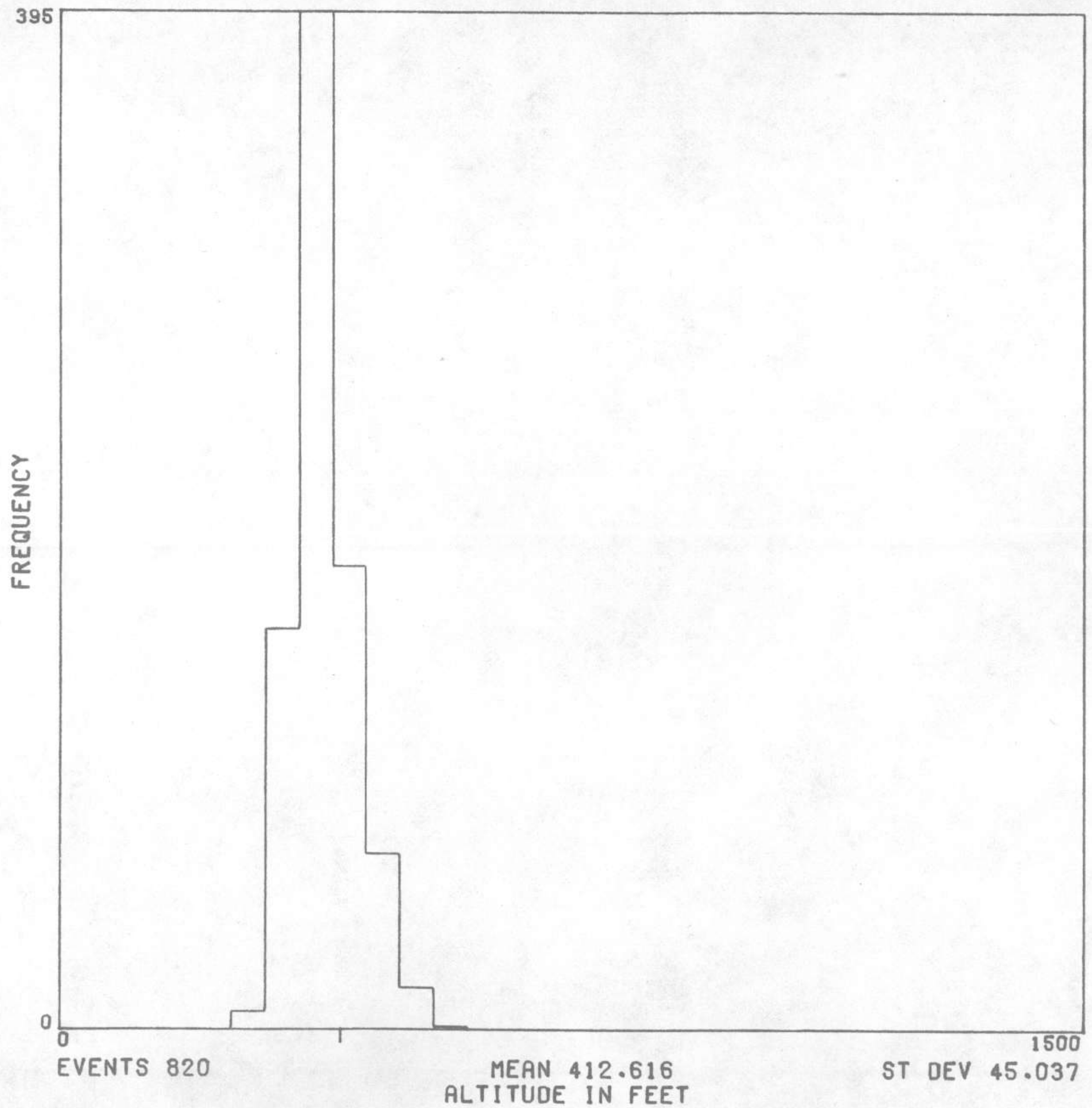
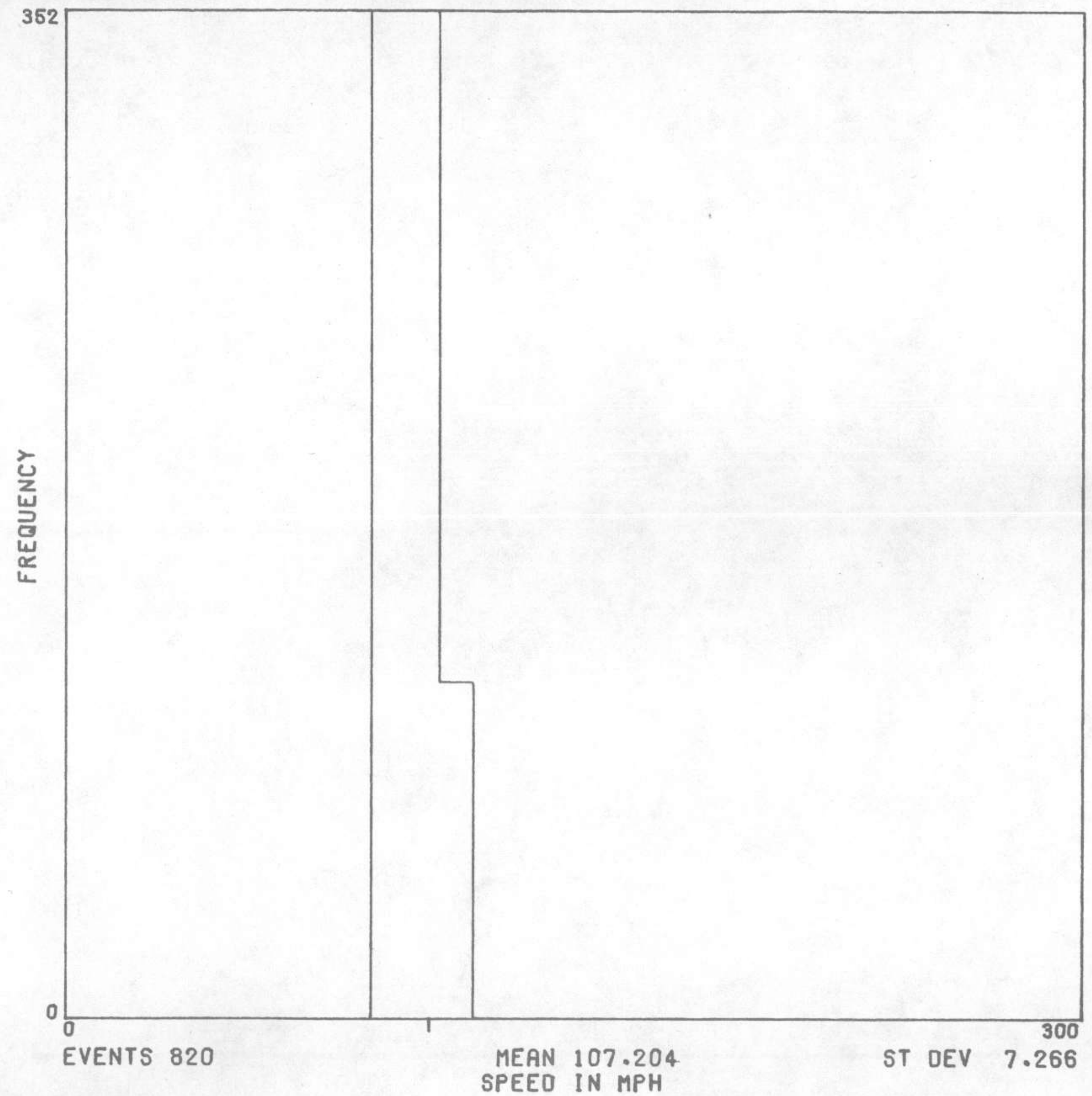
UNIT ZZZZZ


FREQUENCY
EVENTS 17 MEAN 0.473 ST DEV 0.119
EU/ETH
EVENTS 12 MEAN 9.199 ST DEV 4.259
EU/K
EVENTS 12 MEAN 20.345 ST DEV 5.729
ETH/K
EVENTS 17 MEAN 3.585 ST DEV 0.287
ETH
EVENTS 17 MEAN 1.687 ST DEV 0.421
EU
EVENTS 12 MEAN 0.182 ST DEV 0.040
K

UNIT OCC

APPENDIX I - SPEED AND ALTITUDE HISTOGRAMS


395
FREQUENCY
0
0
1500
EVENTS 820
MEAN 412.616
ST DEV 45.037
ALTITUDE IN FEET


352
FREQUENCY
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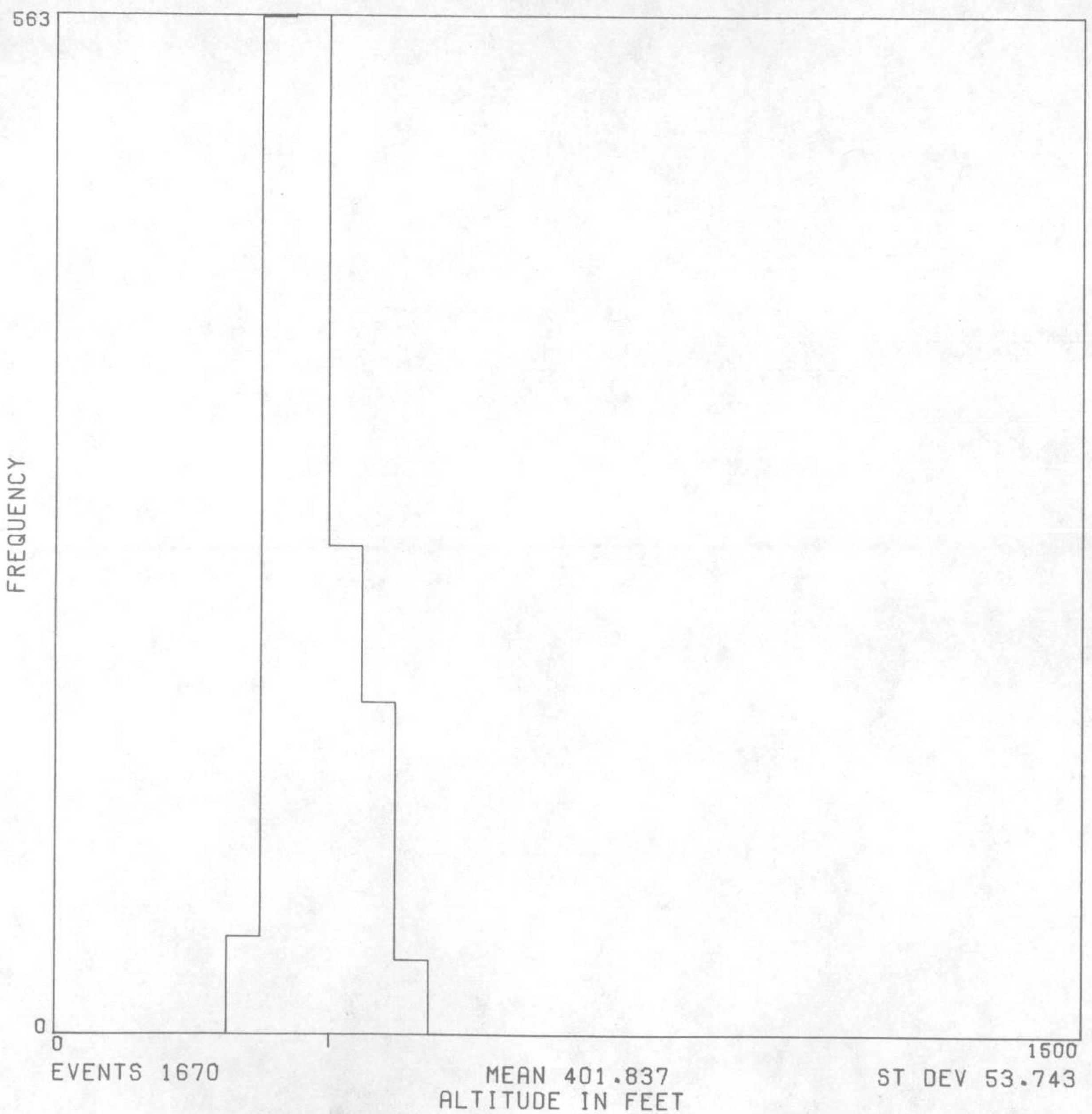
0
300
EVENTS 820
MEAN 107.204
ST DEV 7.266
SPEED IN MPH

TL1S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FREQUENCY
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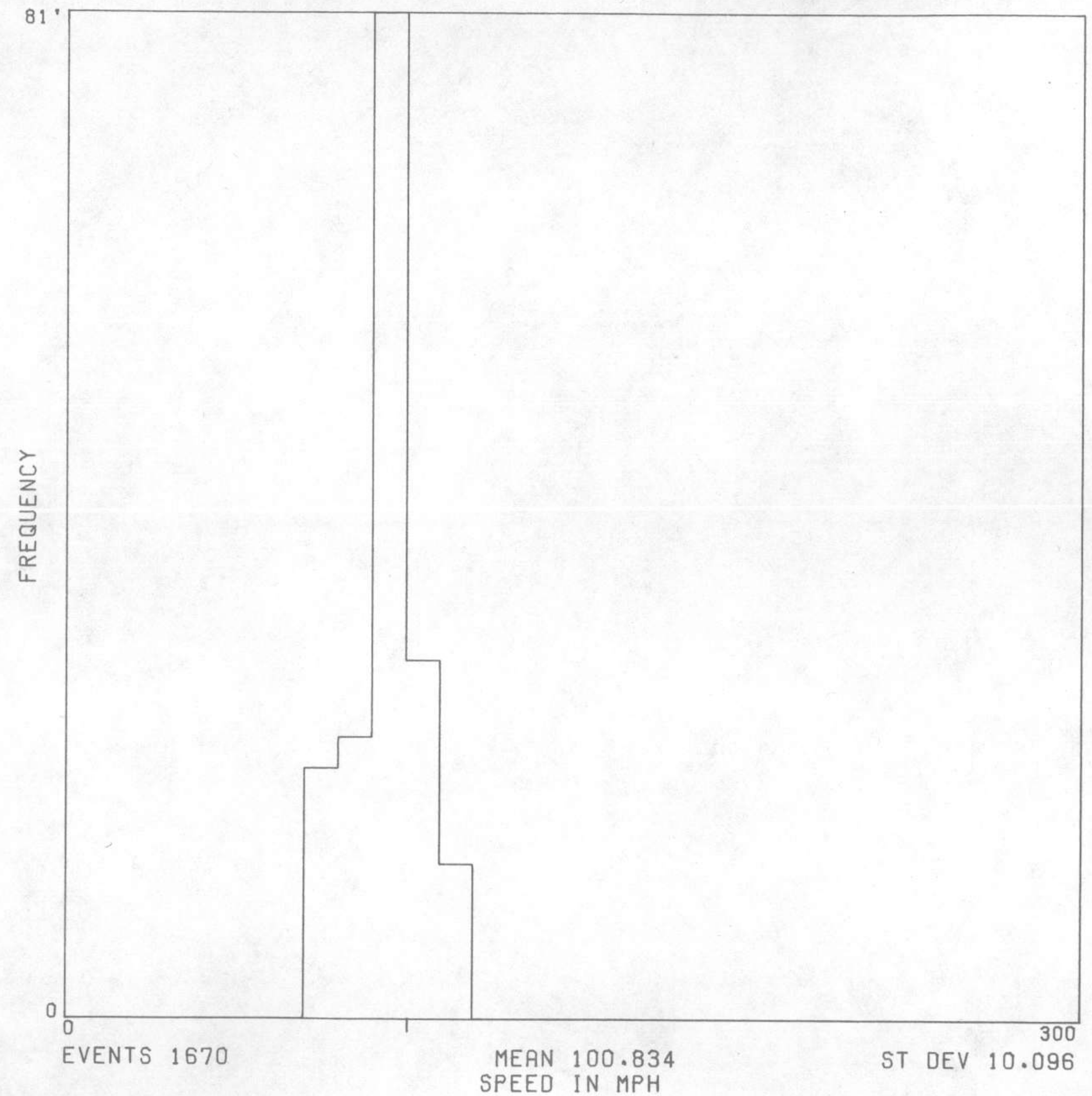
0
1500
EVENTS 1670
MEAN 401.837
ALTITUDE IN FEET
ST DEV 53.743


81
FREQUENCY
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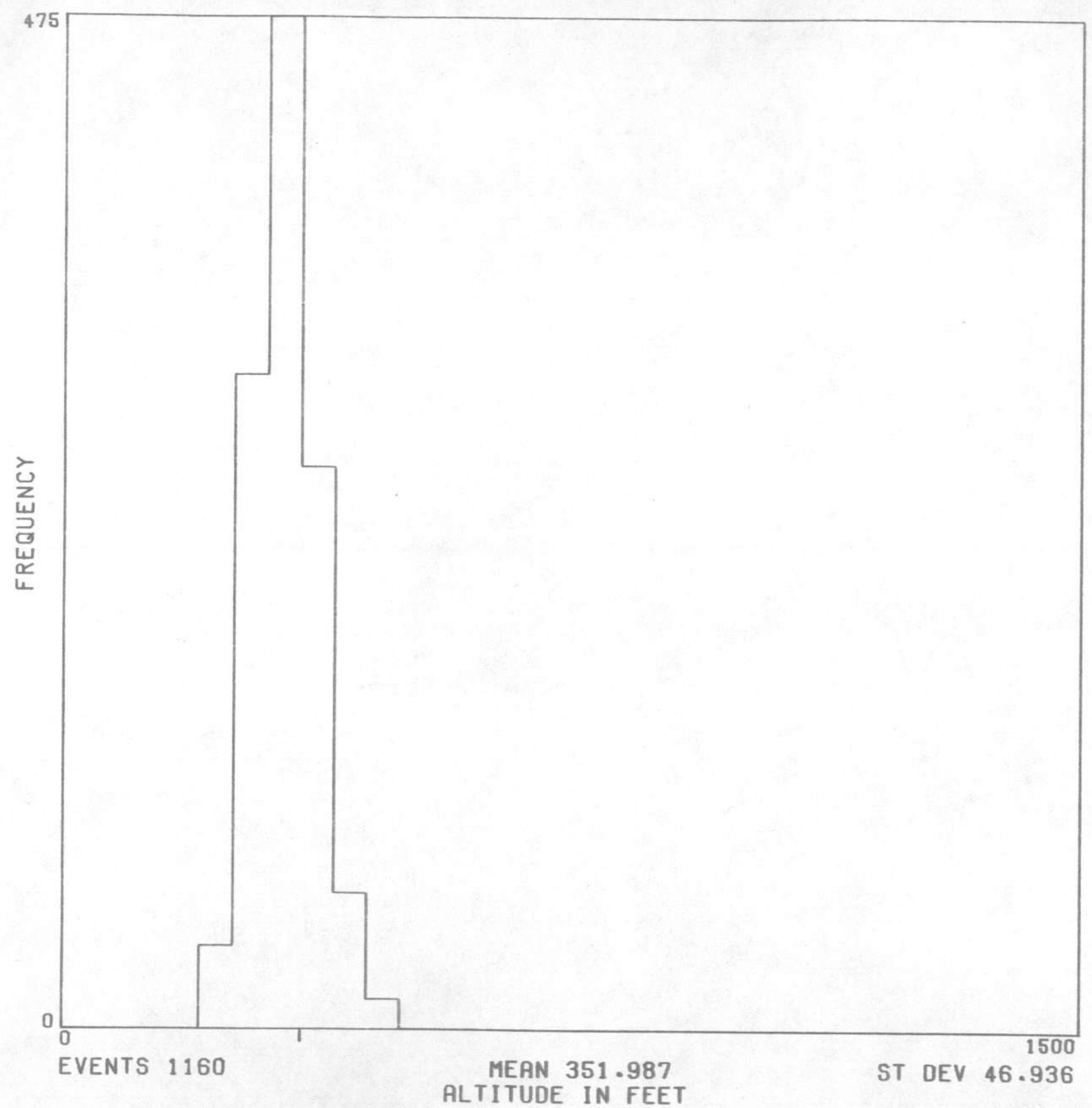
0
300
EVENTS 1670
MEAN 100.834
SPEED IN MPH
ST DEV 10.096

TL1N



475
FREQUENCY
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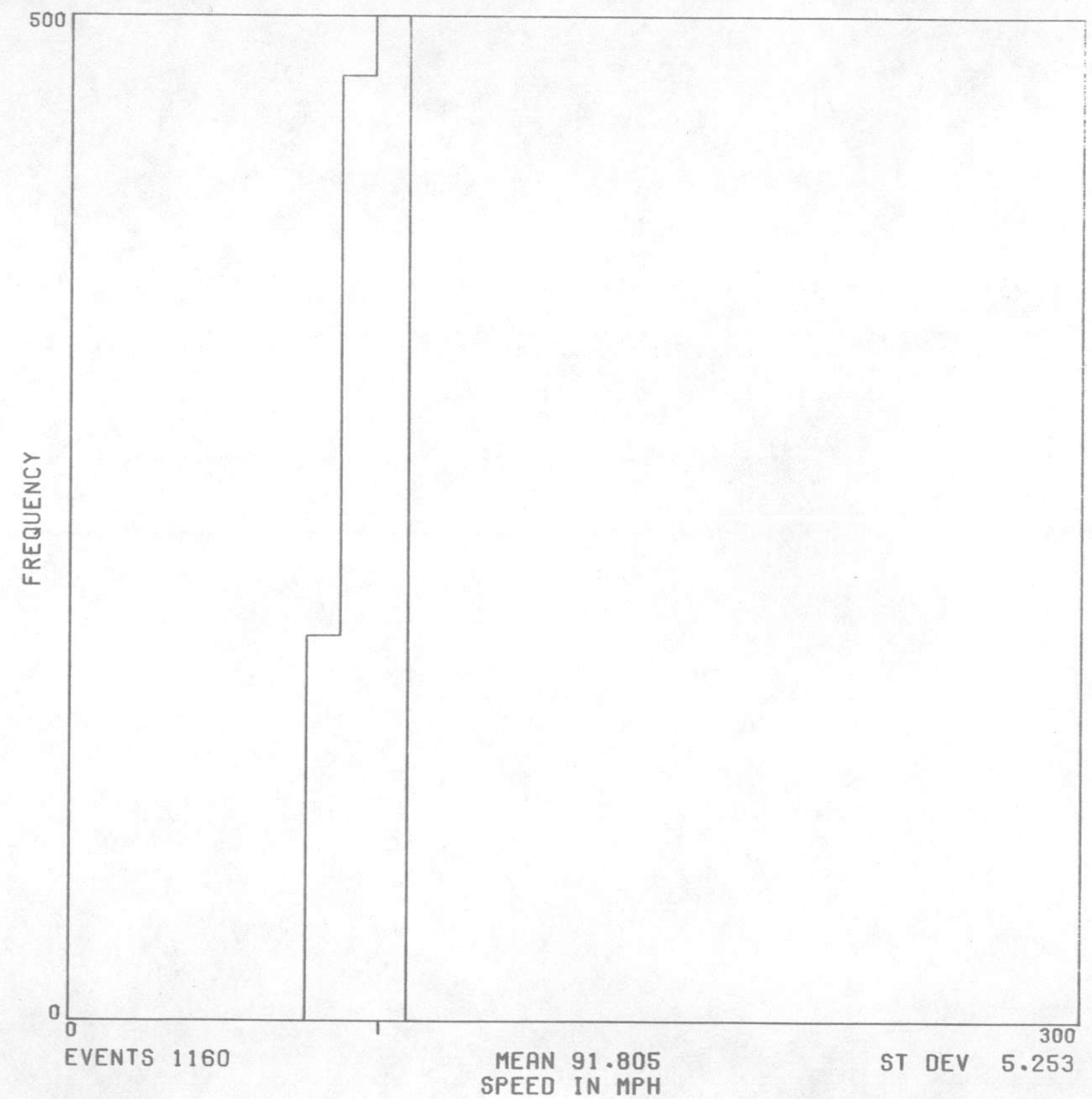
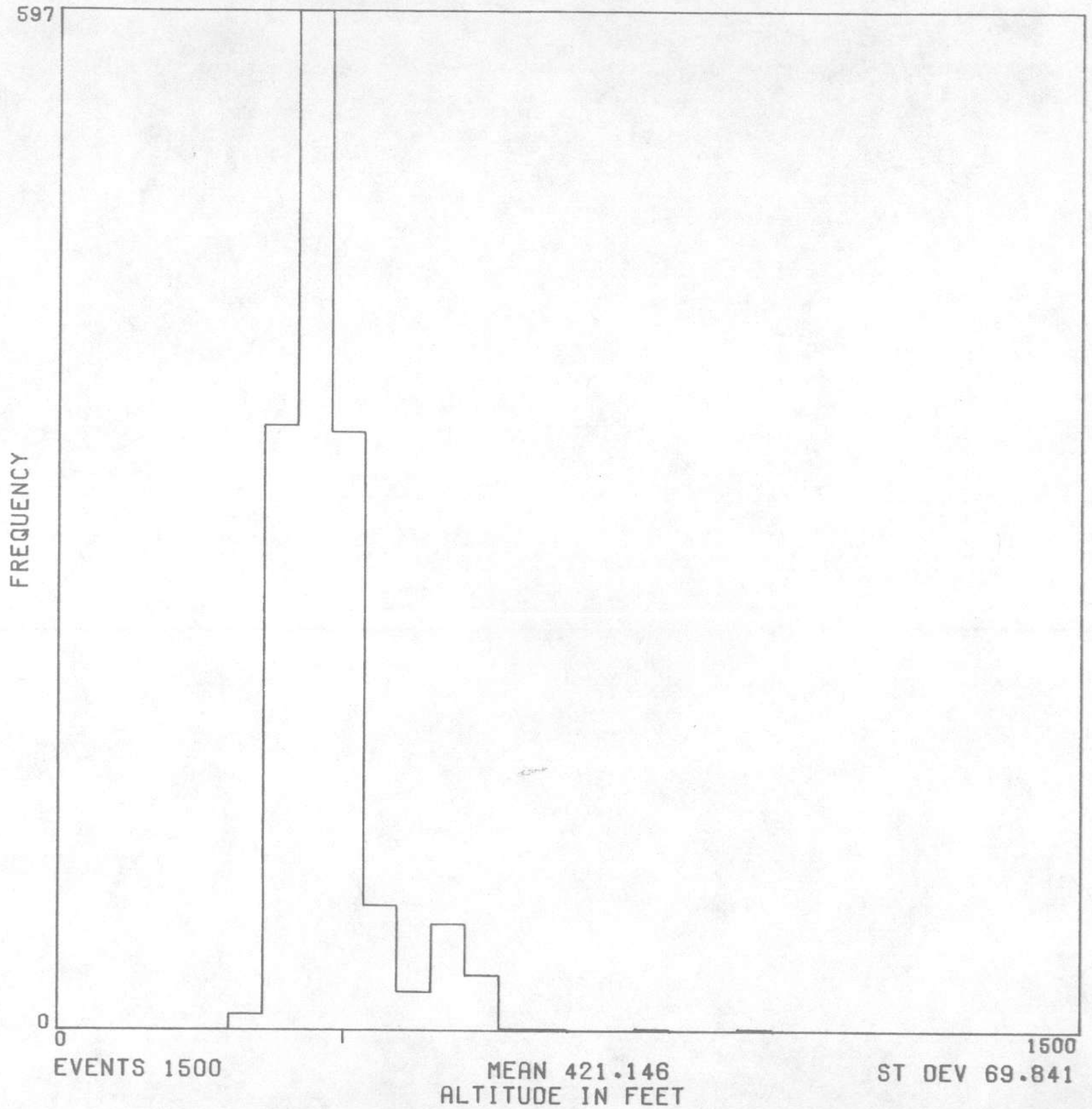
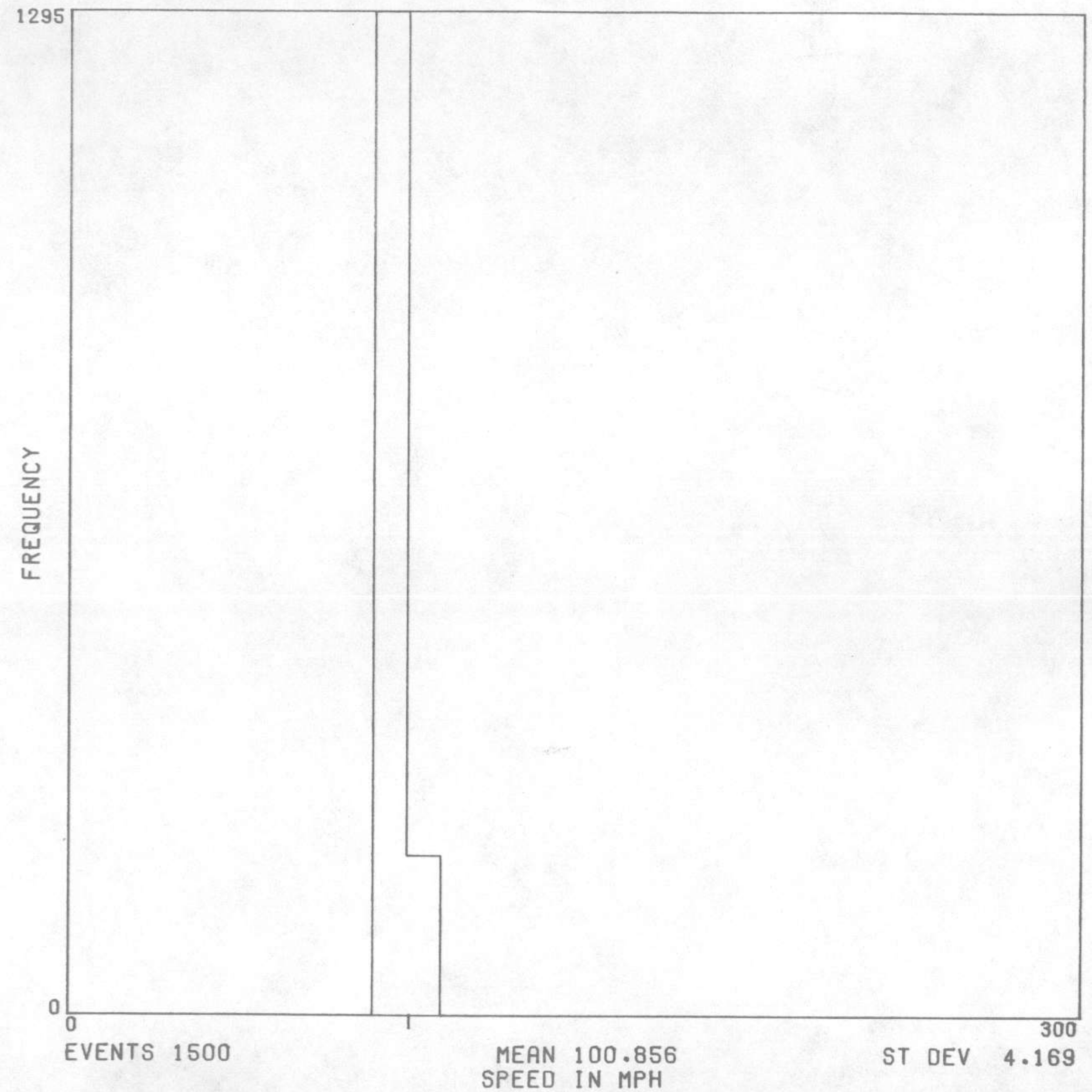
0
1500
EVENTS 1160
MEAN 351.987
ALTITUDE IN FEET
ST DEV 46.936



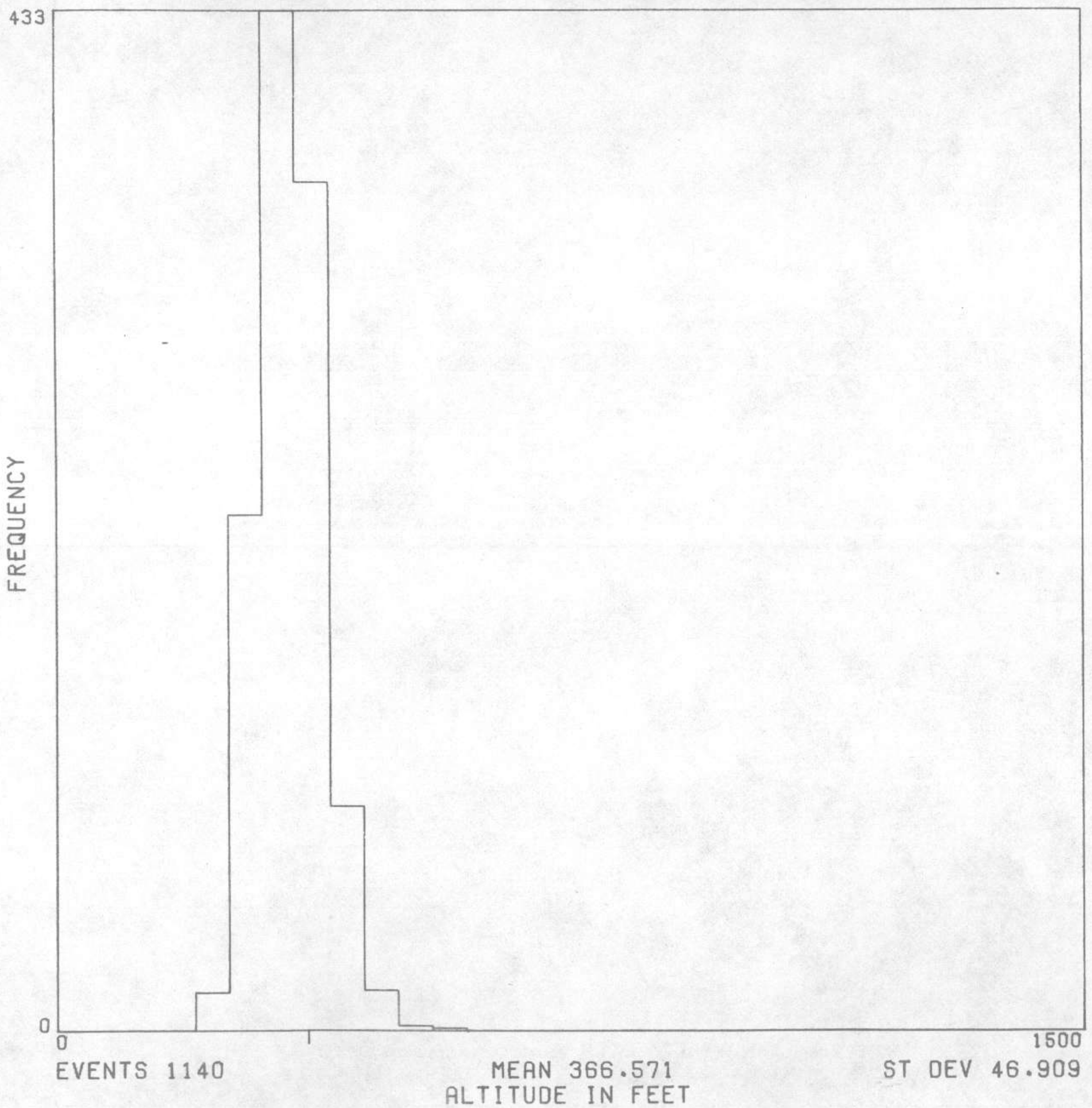
500
FREQUENCY
0
0
300
EVENTS 1160
MEAN 91.805
SPEED IN MPH
ST DEV 5.253

TL2S


597
FREQUENCY
0
0
1500
EVENTS 1500
MEAN 421.146
ALTITUDE IN FEET
ST DEV 69.841


1295
FREQUENCY
0
0
300
EVENTS 1500
MEAN 100.856
SPEED IN MPH
ST DEV 4.169

TL2N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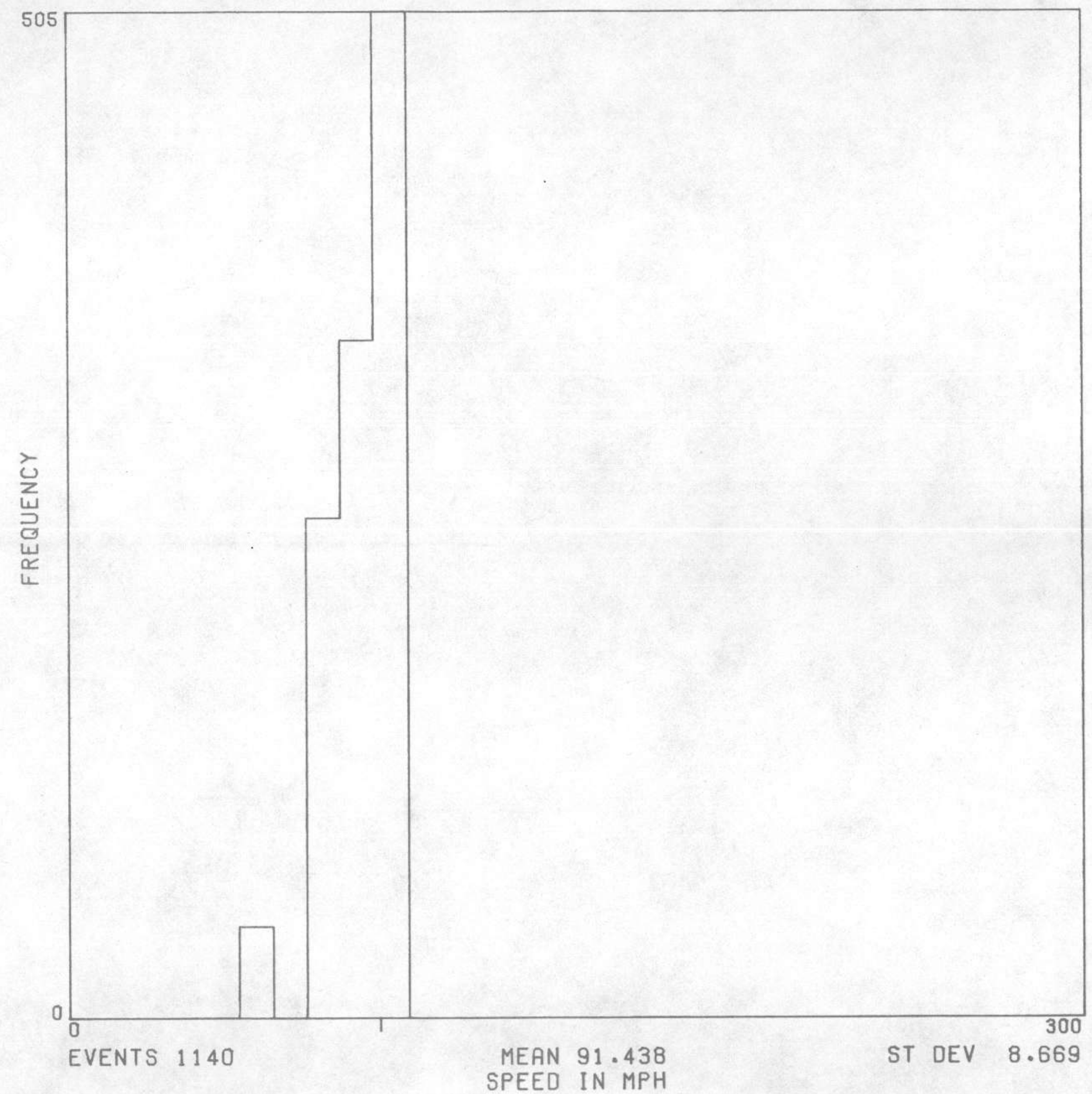
EVENTS 1140
MEAN 366.571
ALTITUDE IN FEET
ST DEV 46.909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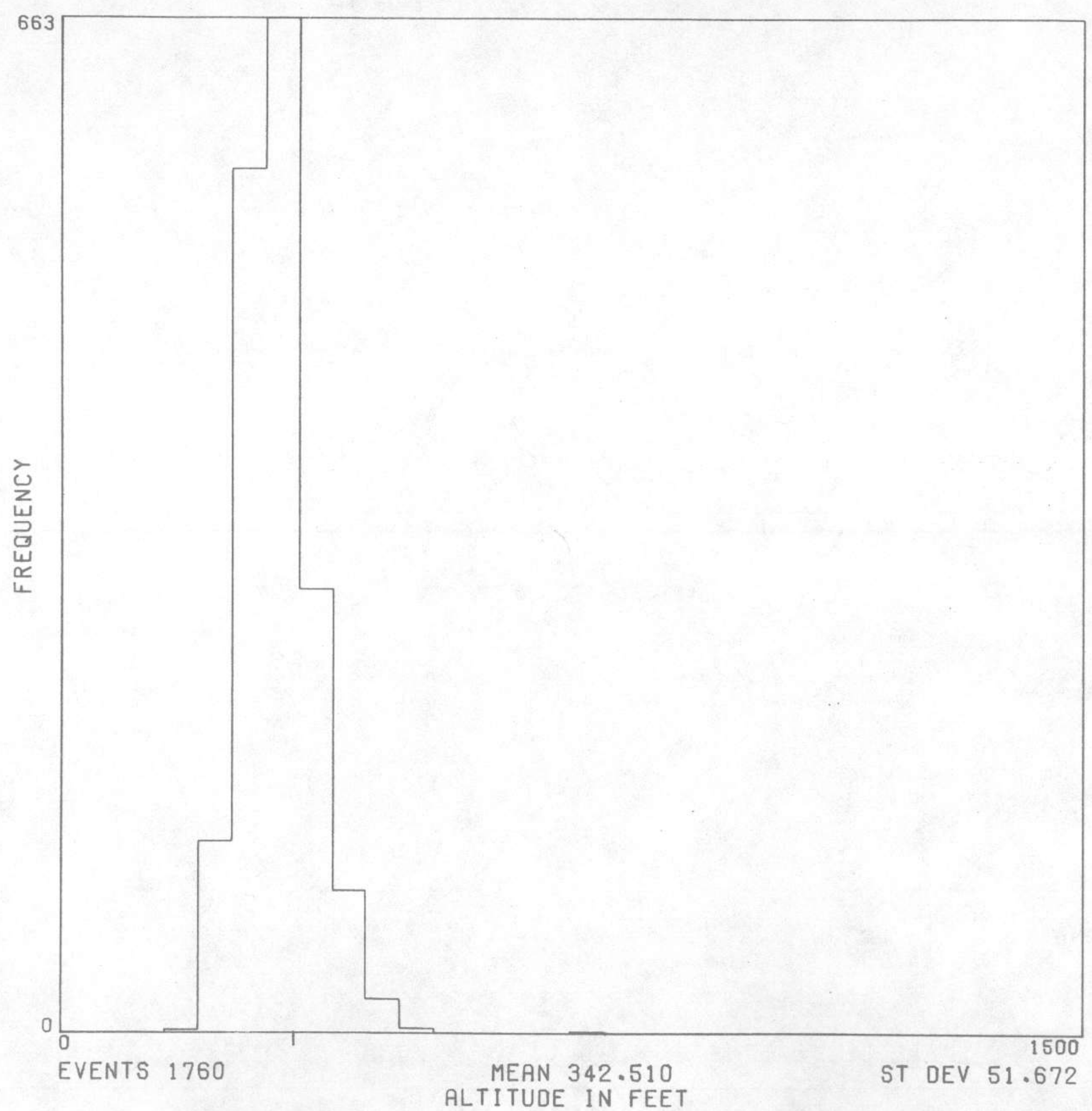
EVENTS 1140
MEAN 91.438
SPEED IN MPH
ST DEV 8.669

TL3S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EVENTS 1760
MEAN 342.510
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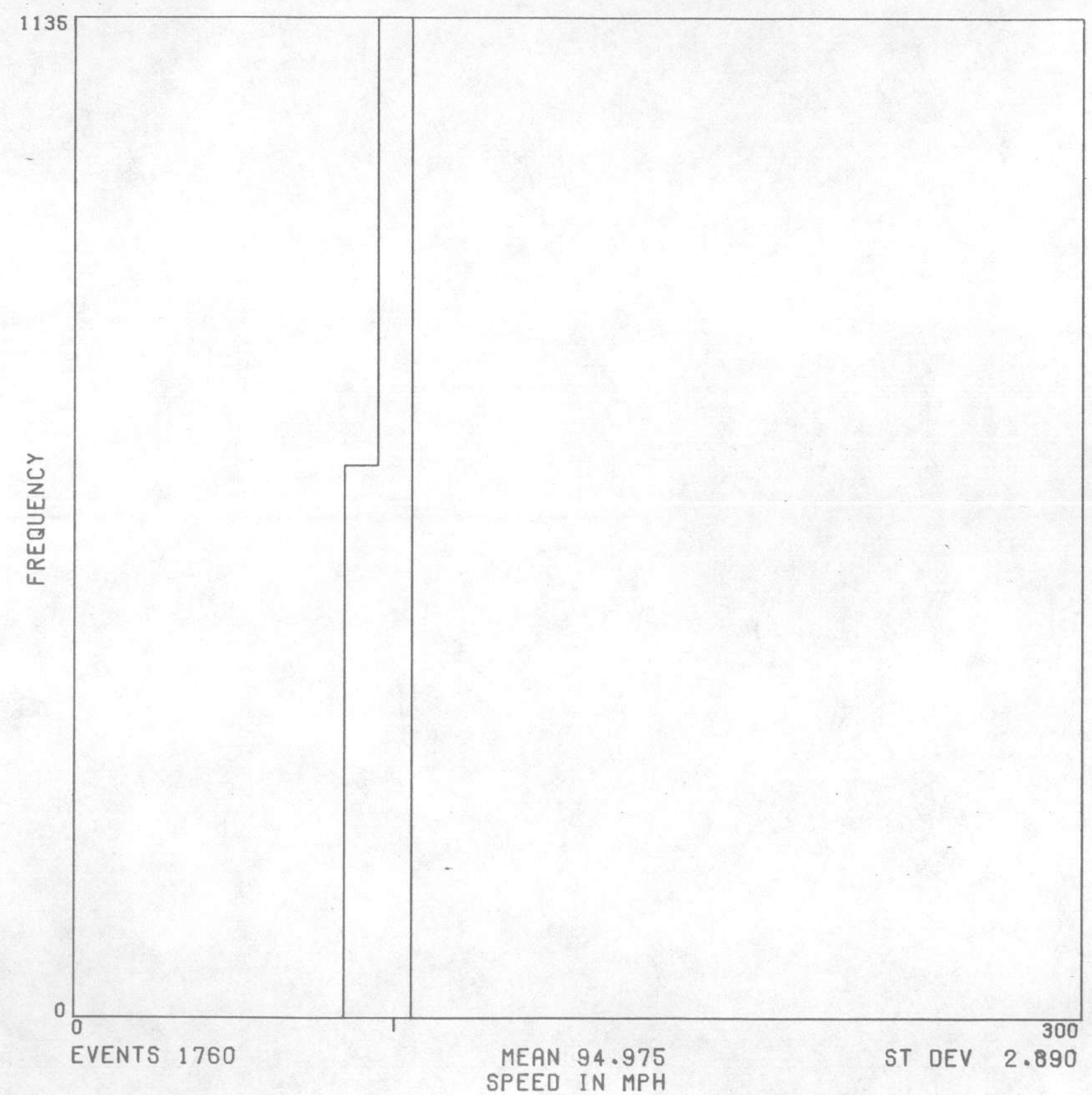
ST DEV 51.672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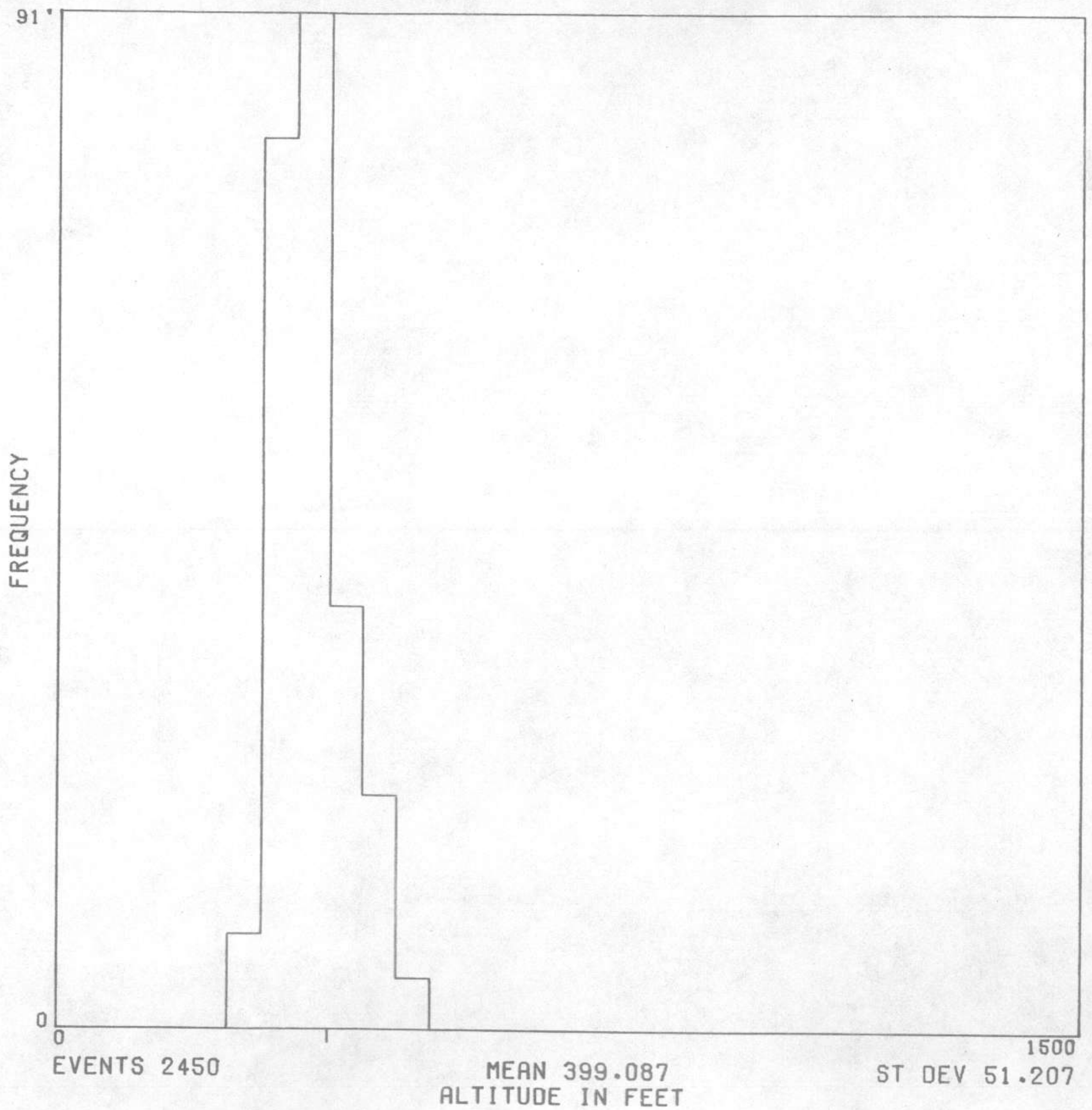
EVENTS 1760
MEAN 94.975
SPEED IN MPH
ST DEV 2.890

TL3N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FREQUENCY
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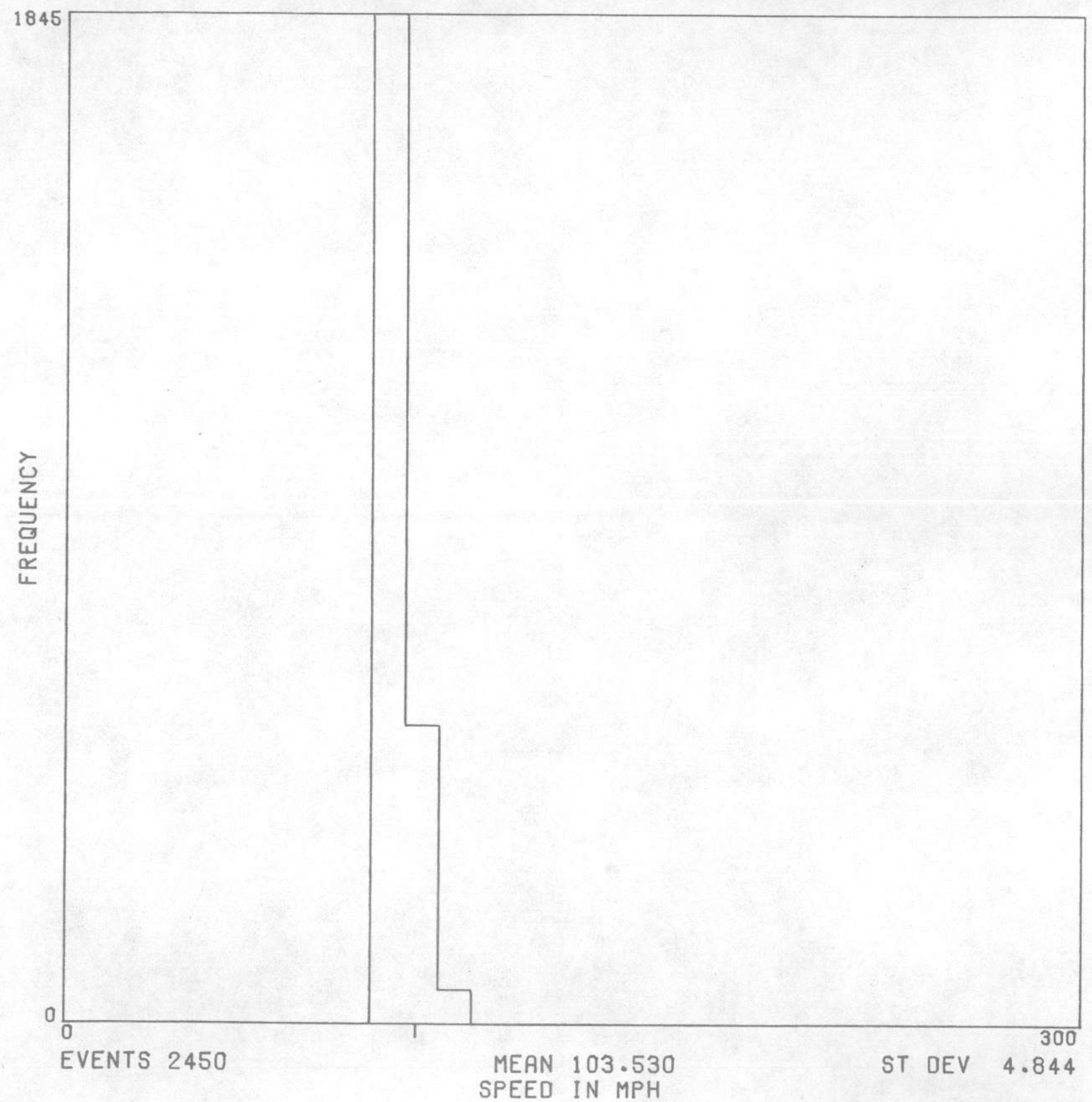
EVENTS 2450
MEAN 399.087
ALTITUDE IN FEET
ST DEV 51.207


1845
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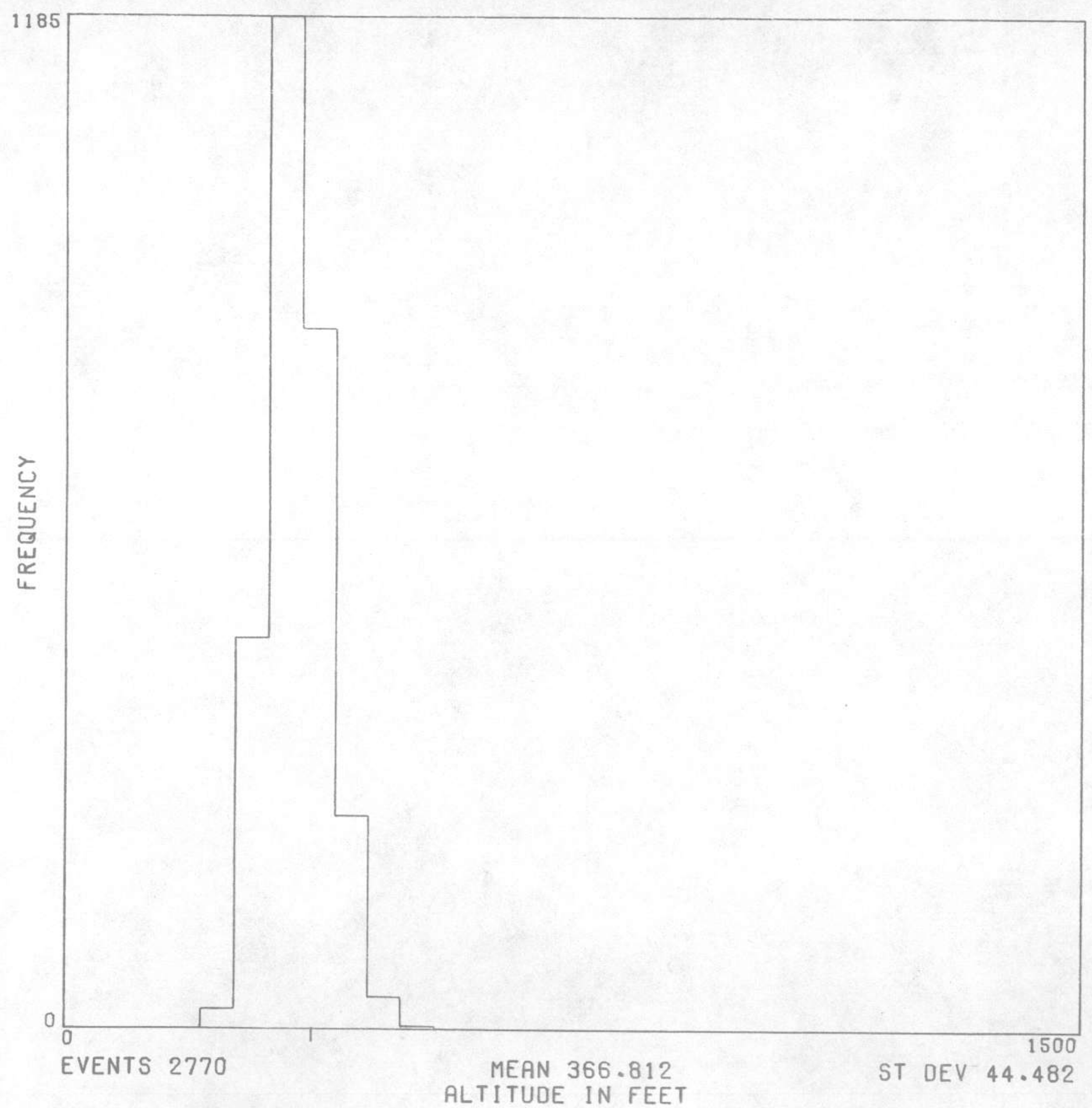
EVENTS 2450
MEAN 103.530
SPEED IN MPH
ST DEV 4.844

TL4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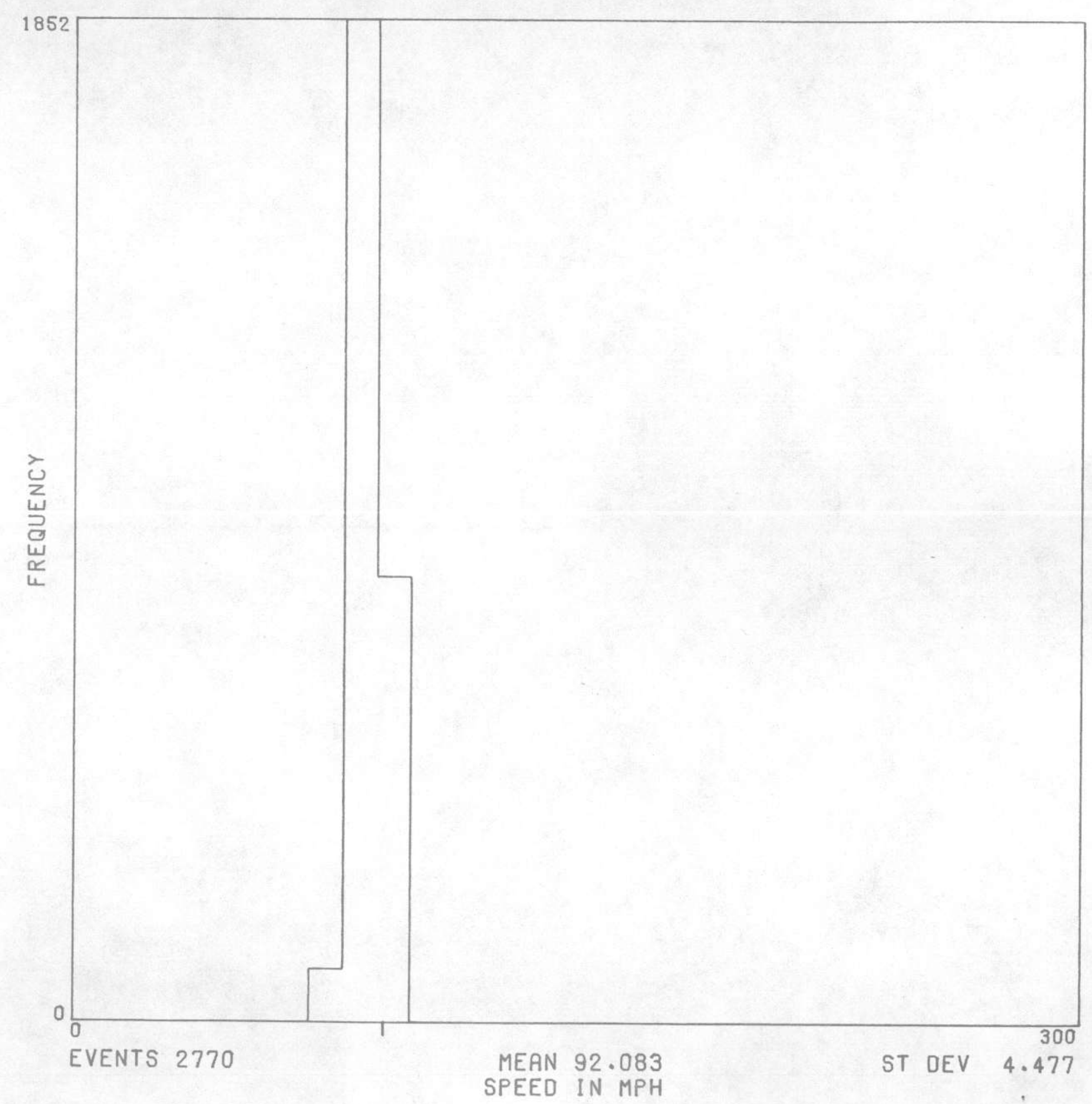
EVENTS 2770
MEAN 366.812
ALTITUDE IN FEET
ST DEV 44.482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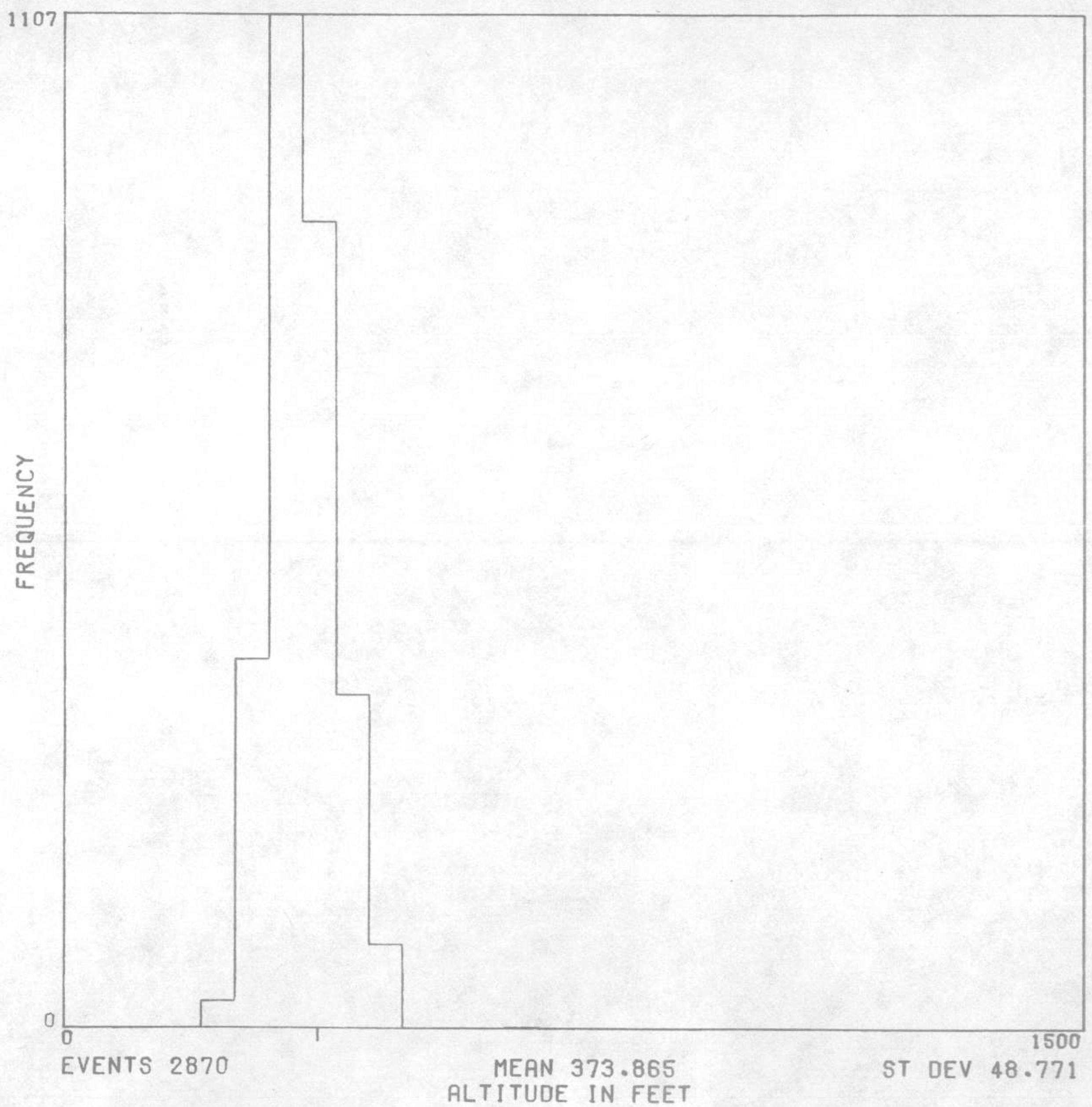
EVENTS 2770
MEAN 92.083
SPEED IN MPH
ST DEV 4.477

TL5


1107
FREQUENCY
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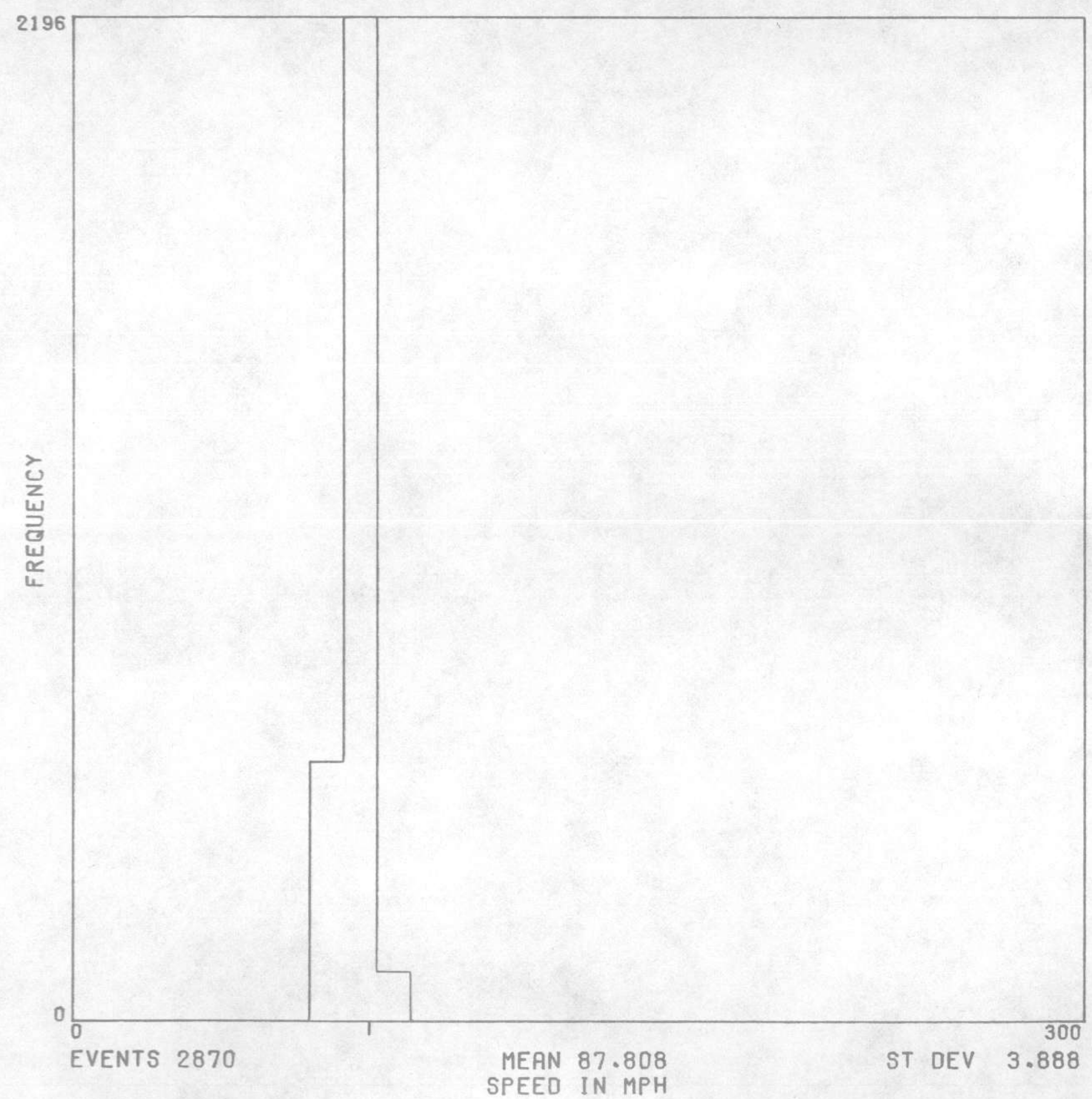
EVENTS 2870
MEAN 373.865
ALTITUDE IN FEET
ST DEV 48.771


2196
FREQUENCY
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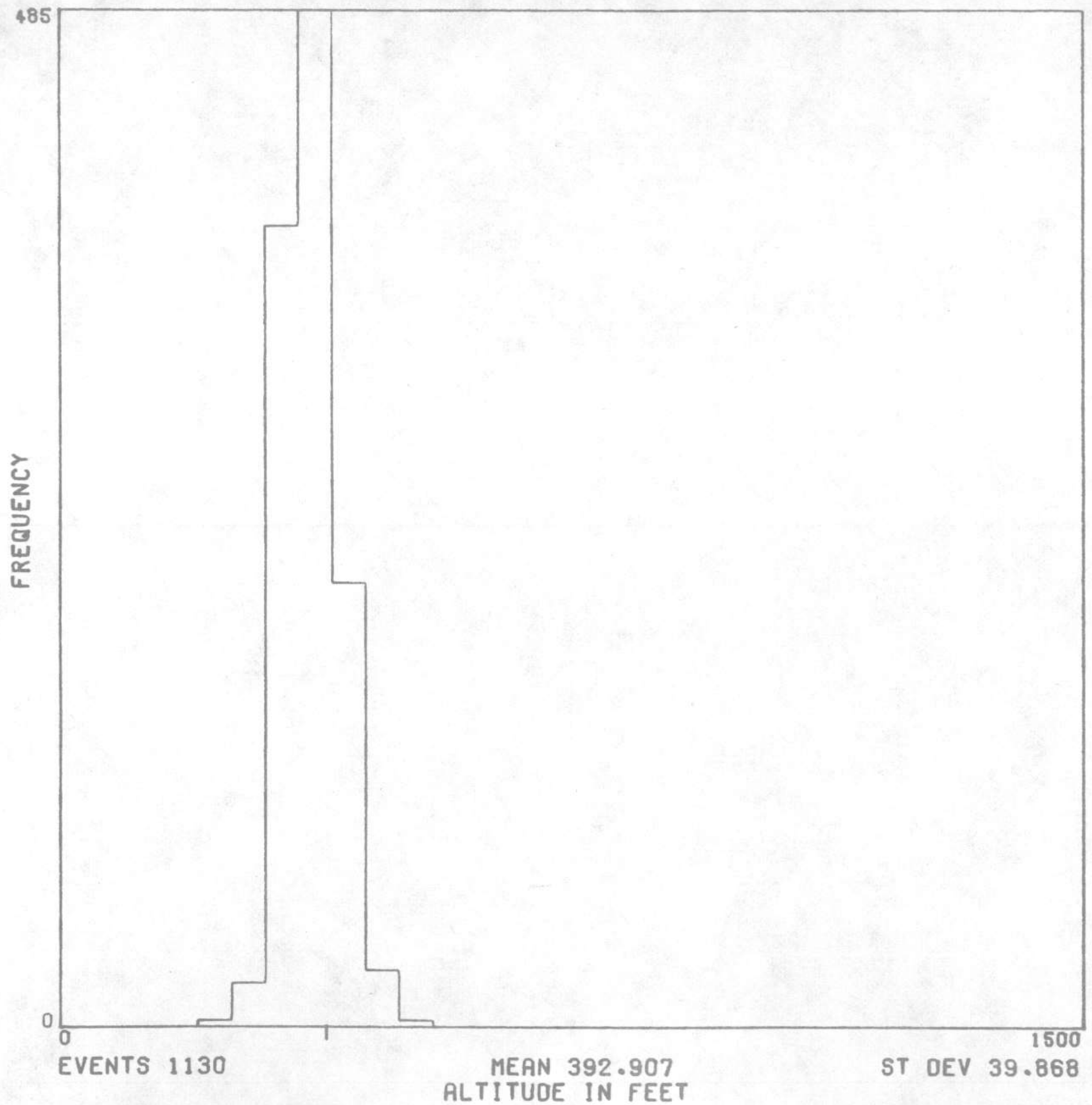
EVENTS 2870
MEAN 87.808
SPEED IN MPH
ST DEV 3.888

TL6



485
FREQUENCY
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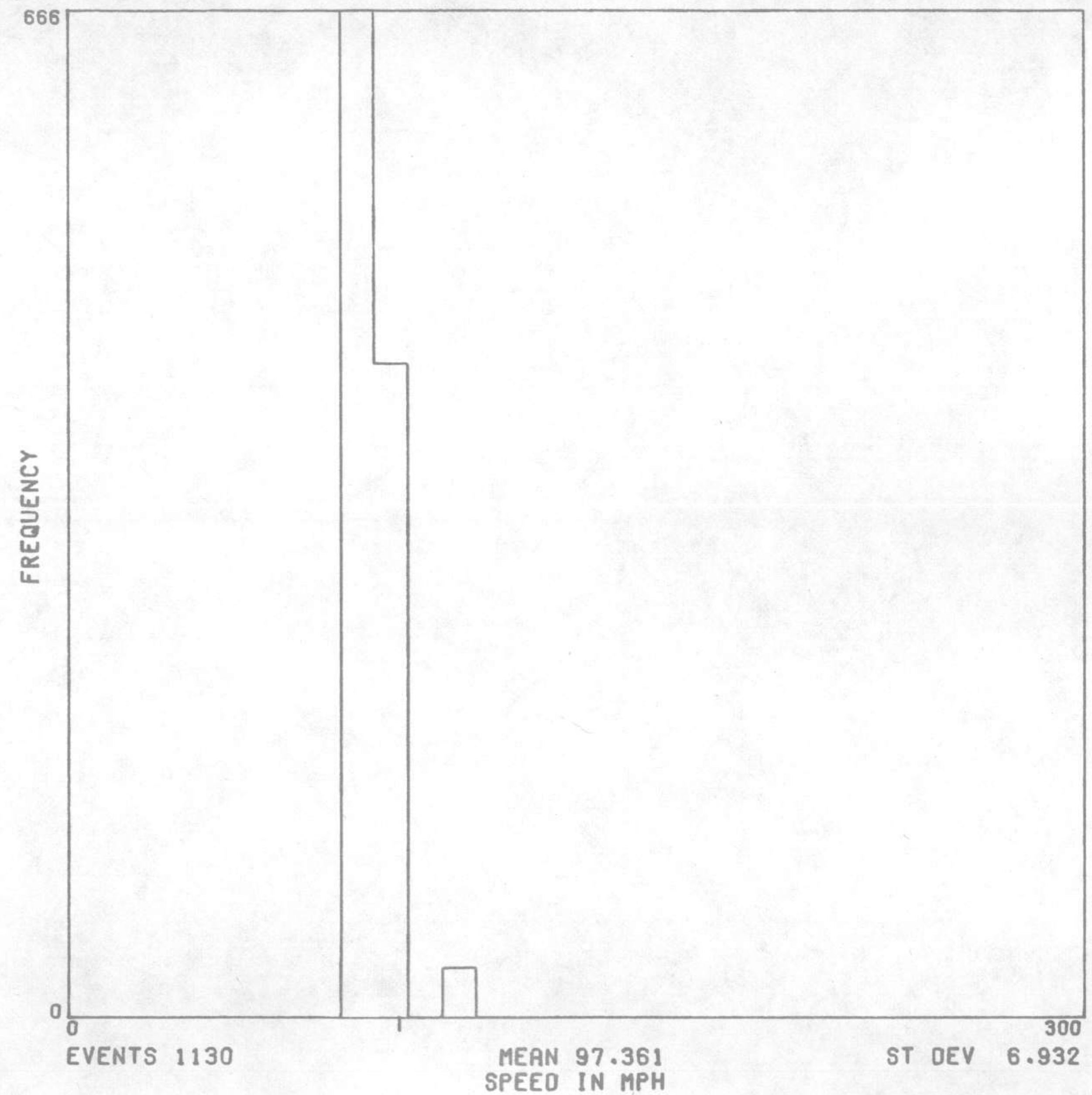
EVENTS 1130
MEAN 392.907
ALTITUDE IN FEET
ST DEV 39.868



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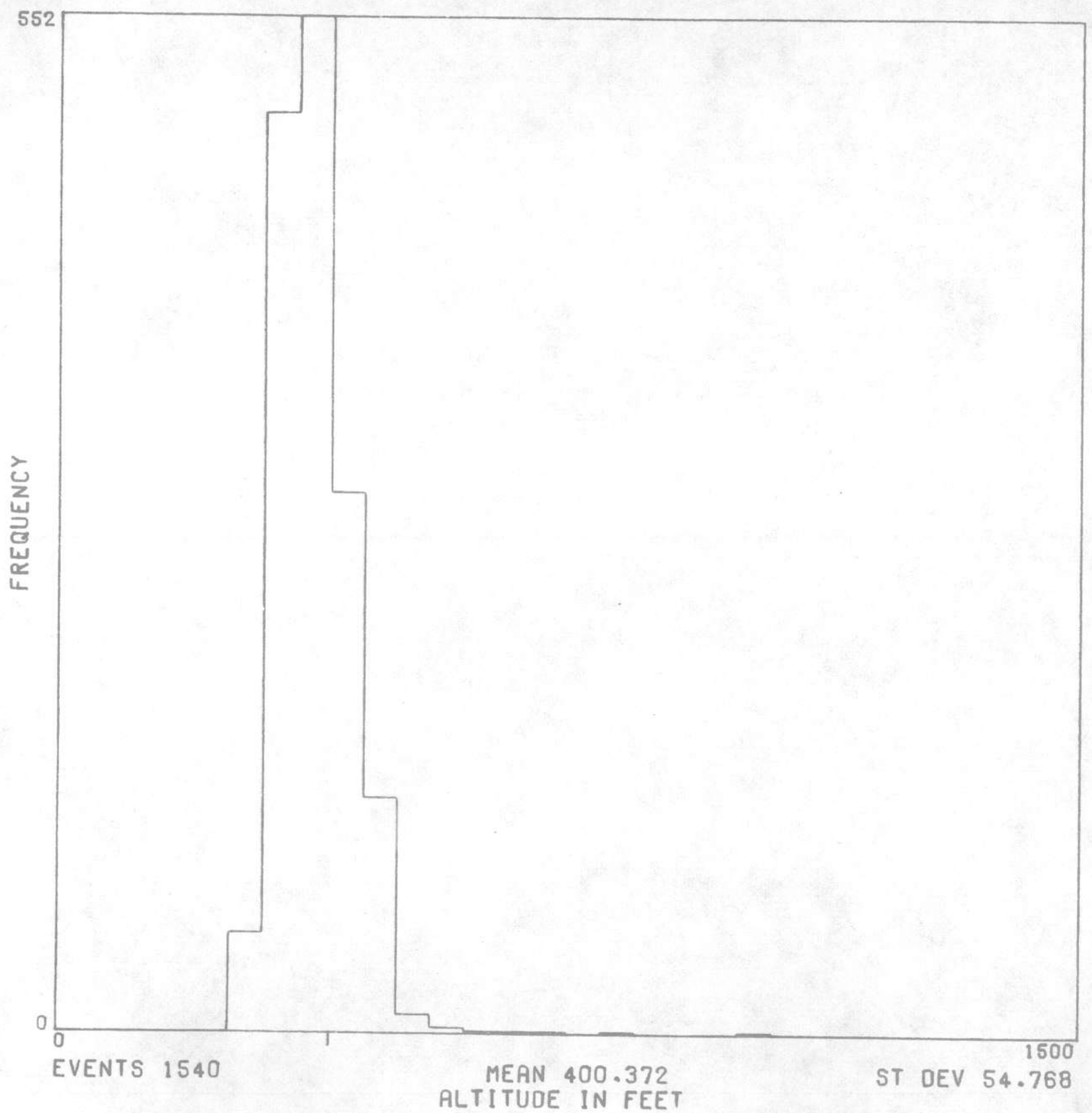
EVENTS 1130
MEAN 97.361
SPEED IN MPH
ST DEV 6.932

TL7S



552
FREQUENCY
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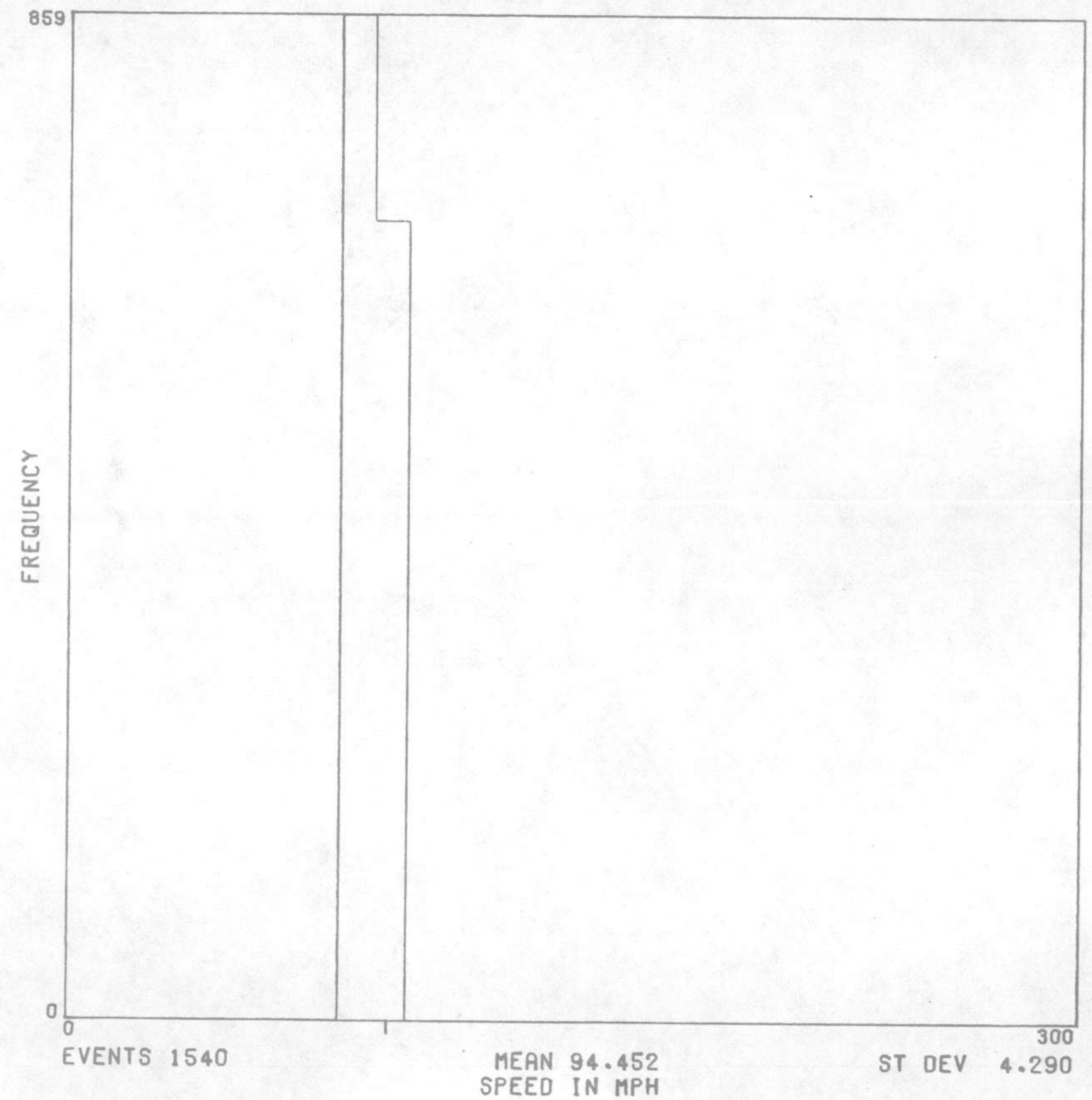
EVENTS 1540
MEAN 400.372
ALTITUDE IN FEET
ST DEV 54.768



859
FREQUENCY
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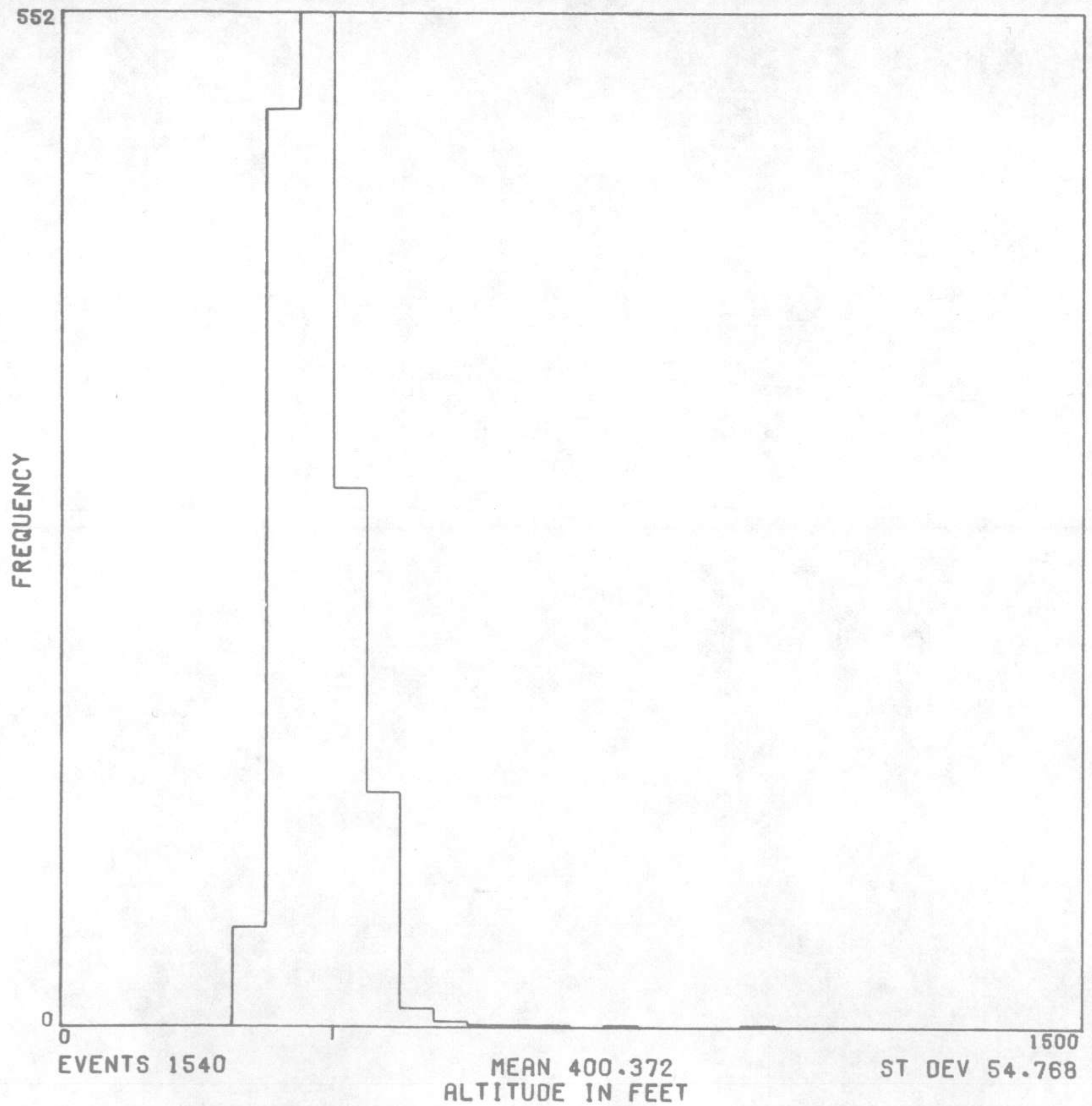
EVENTS 1540
MEAN 94.452
SPEED IN MPH
ST DEV 4.290

TL7N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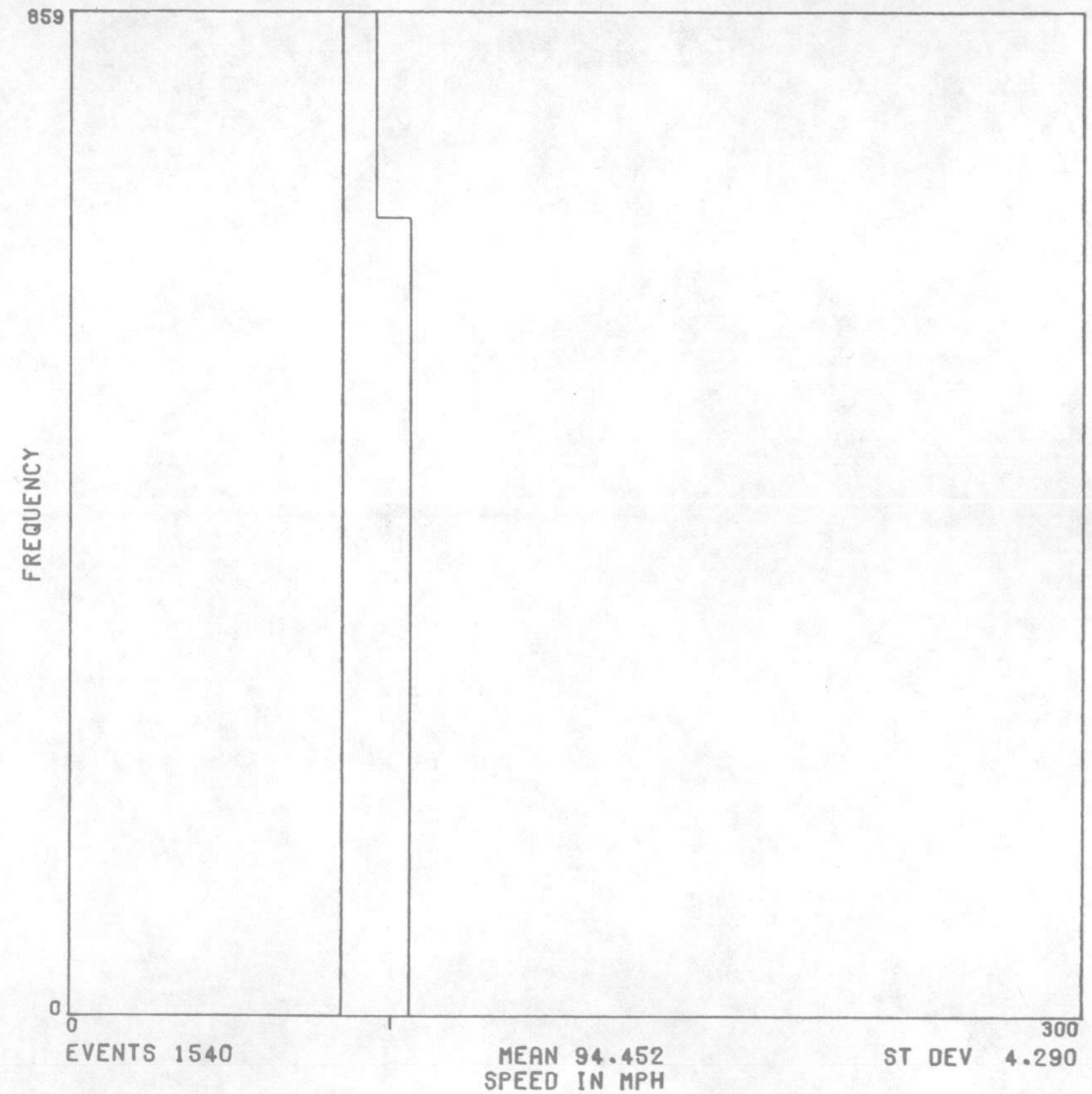
FREQUENCY
0
1500
EVENTS 1540
MEAN 400.372
ALTITUDE IN FEET
ST DEV 54.768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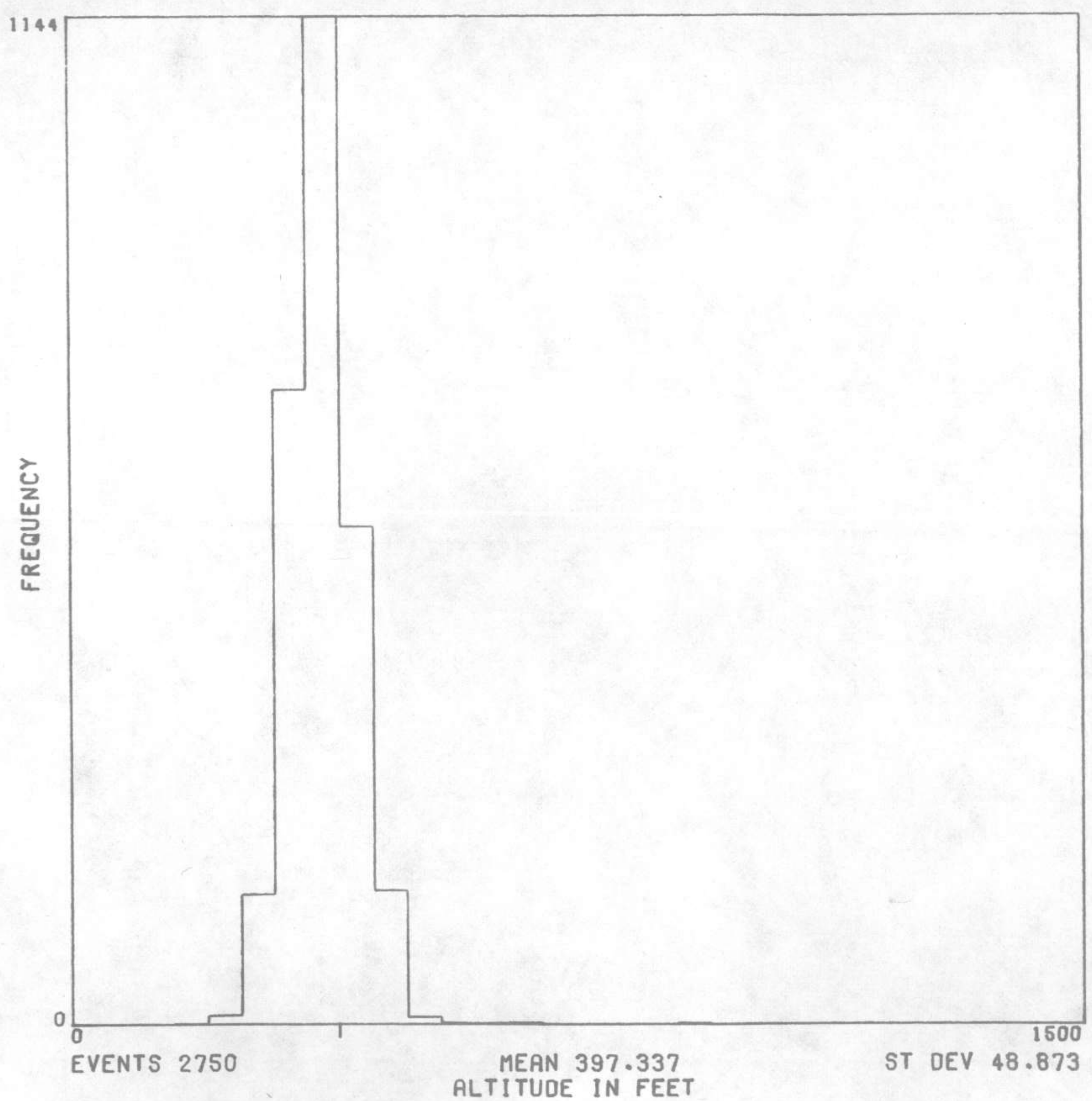
EVENTS 1540
MEAN 94.452
SPEED IN MPH
ST DEV 4.290

TL7N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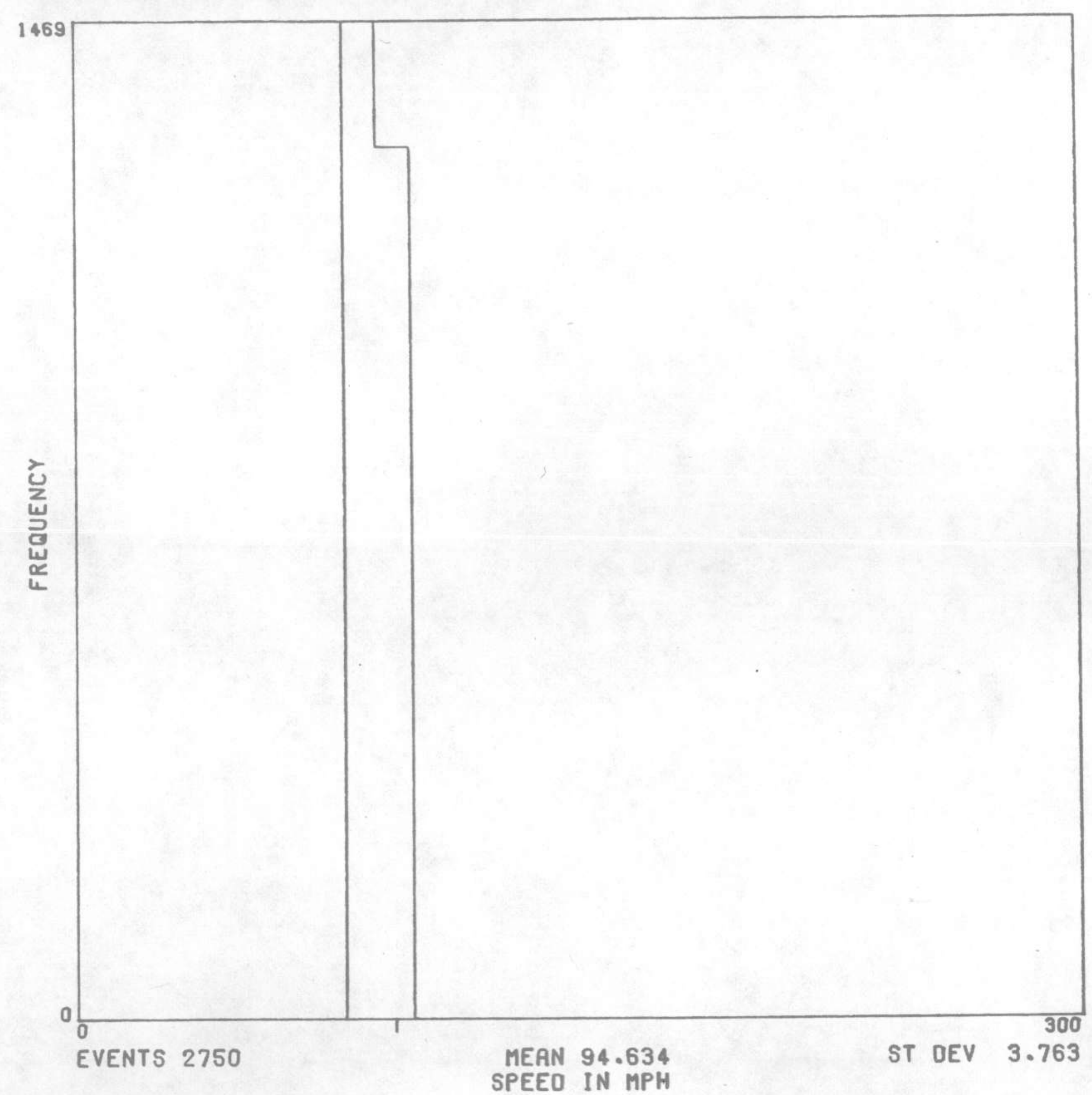
EVENTS 2750
MEAN 397.337
ALTITUDE IN FEET
ST DEV 48.873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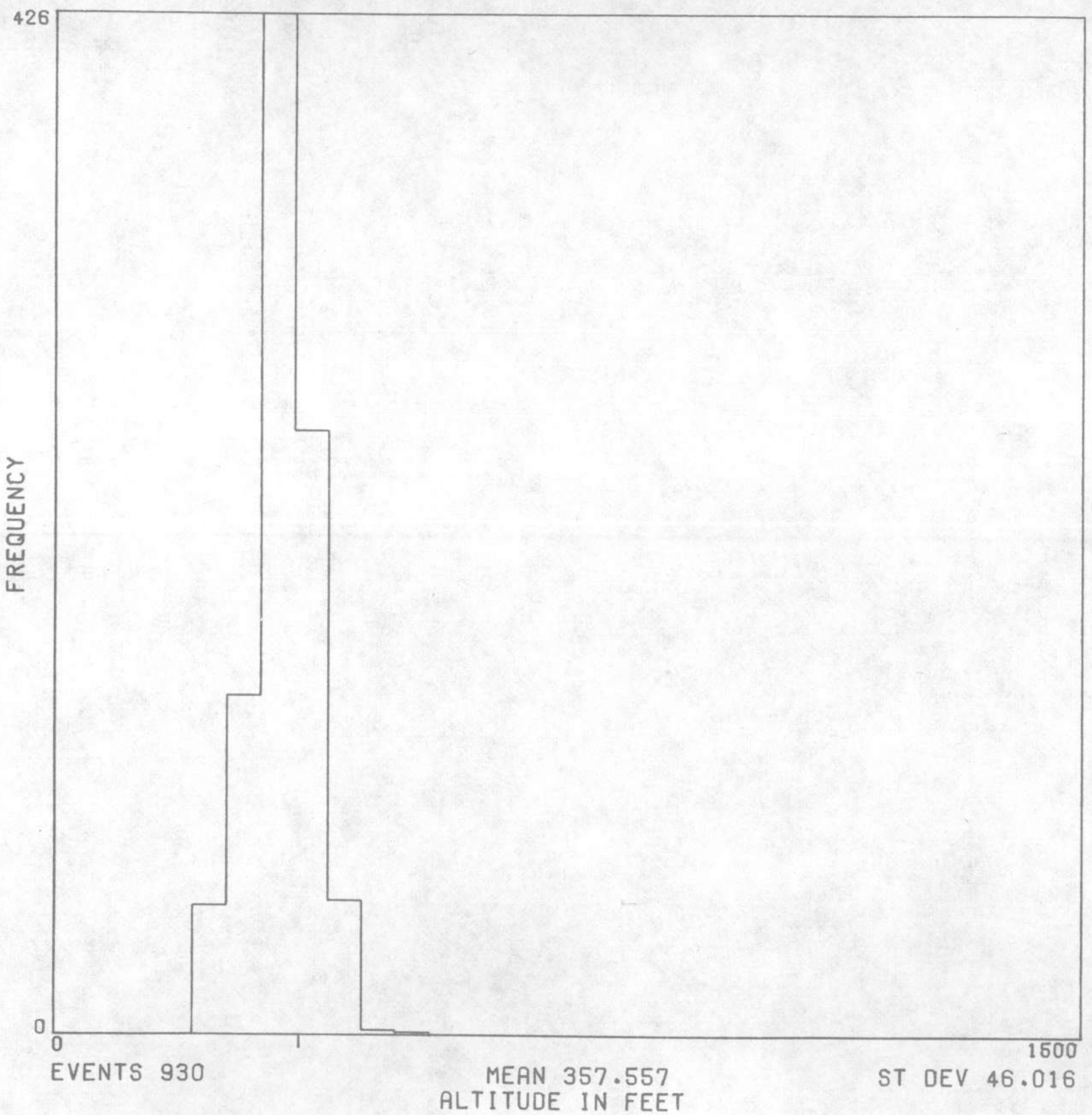
EVENTS 2750
MEAN 94.634
SPEED IN MPH
ST DEV 3.763

TL8


426
FREQUENCY
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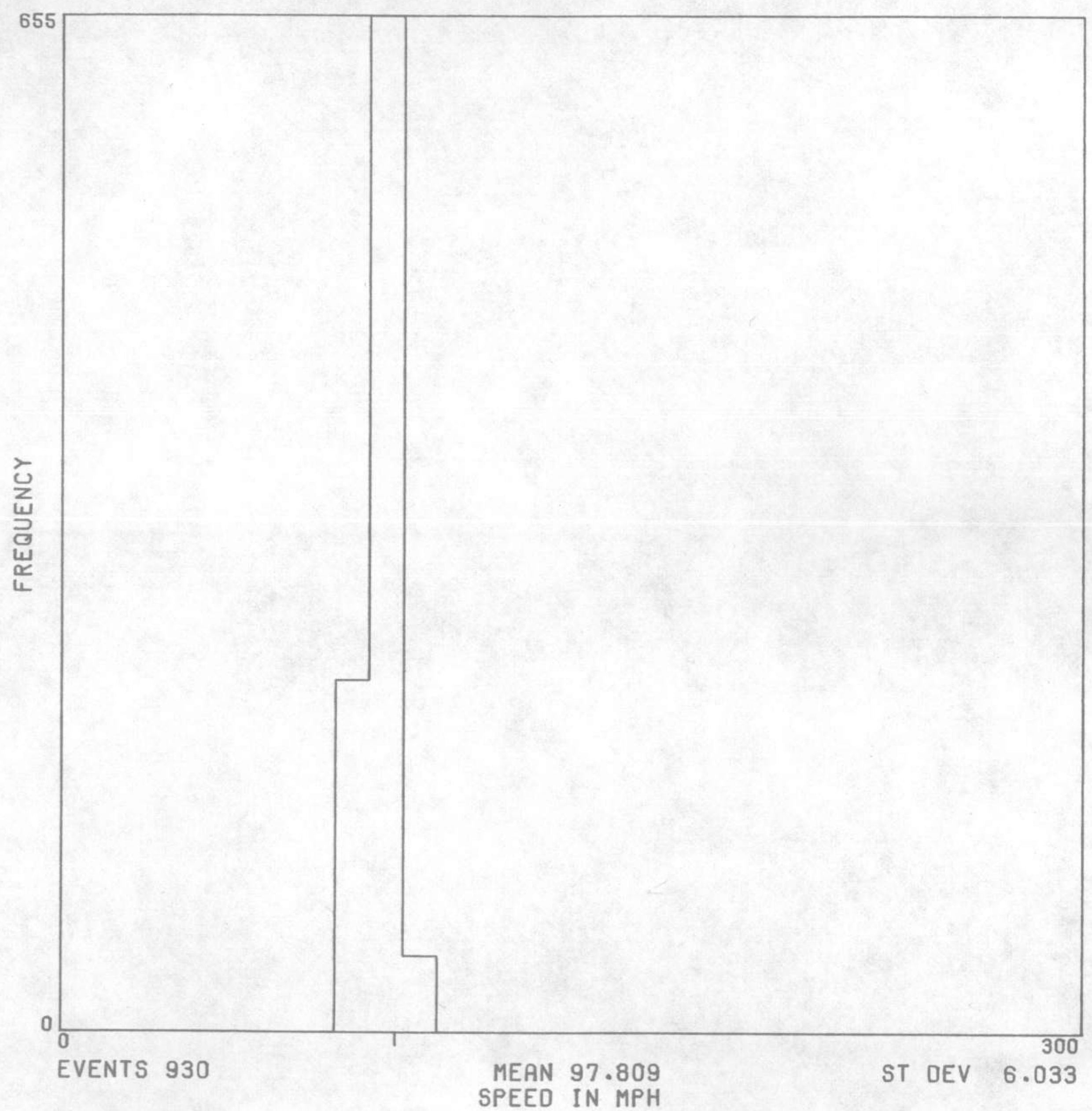
EVENTS 930
MEAN 357.557
ALTITUDE IN FEET
ST DEV 46.016


655
FREQUENCY
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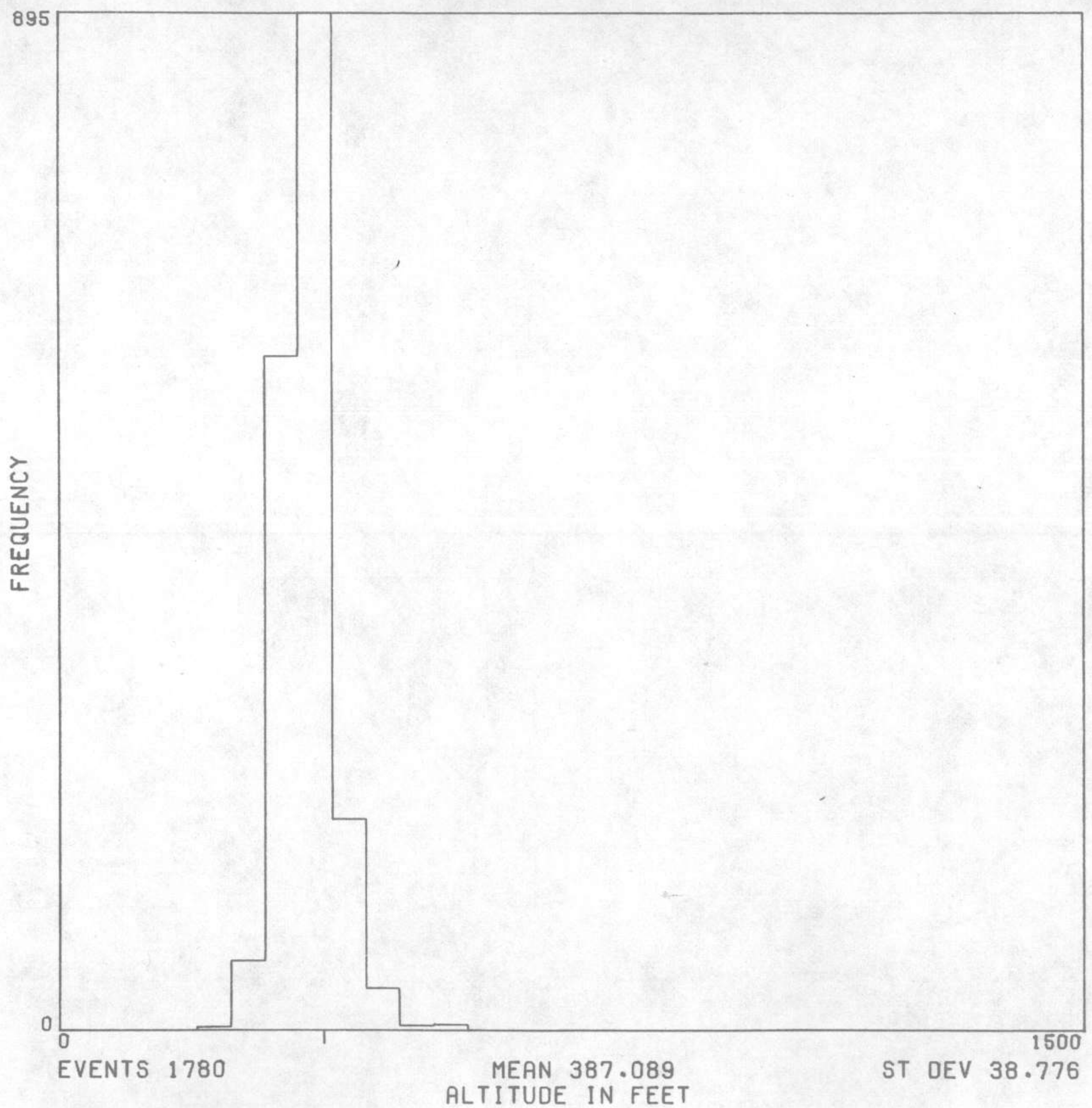
EVENTS 930
MEAN 97.809
SPEED IN MPH
ST DEV 6.033

TL9S


895
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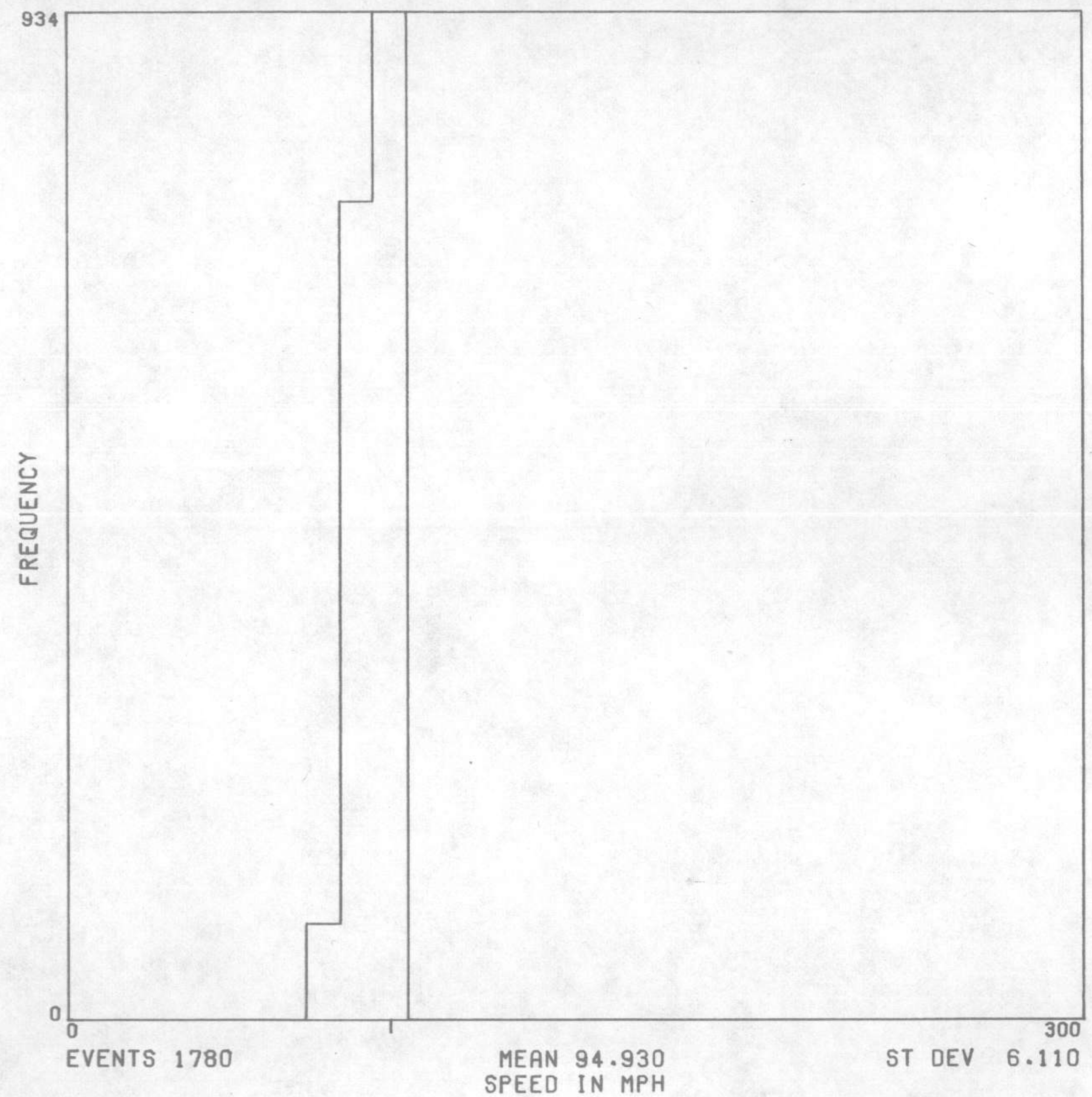
FREQUENCY
0
1500
EVENTS 1780
MEAN 387.089
ST DEV 38.776
ALTITUDE IN FEET


934
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FREQUENCY
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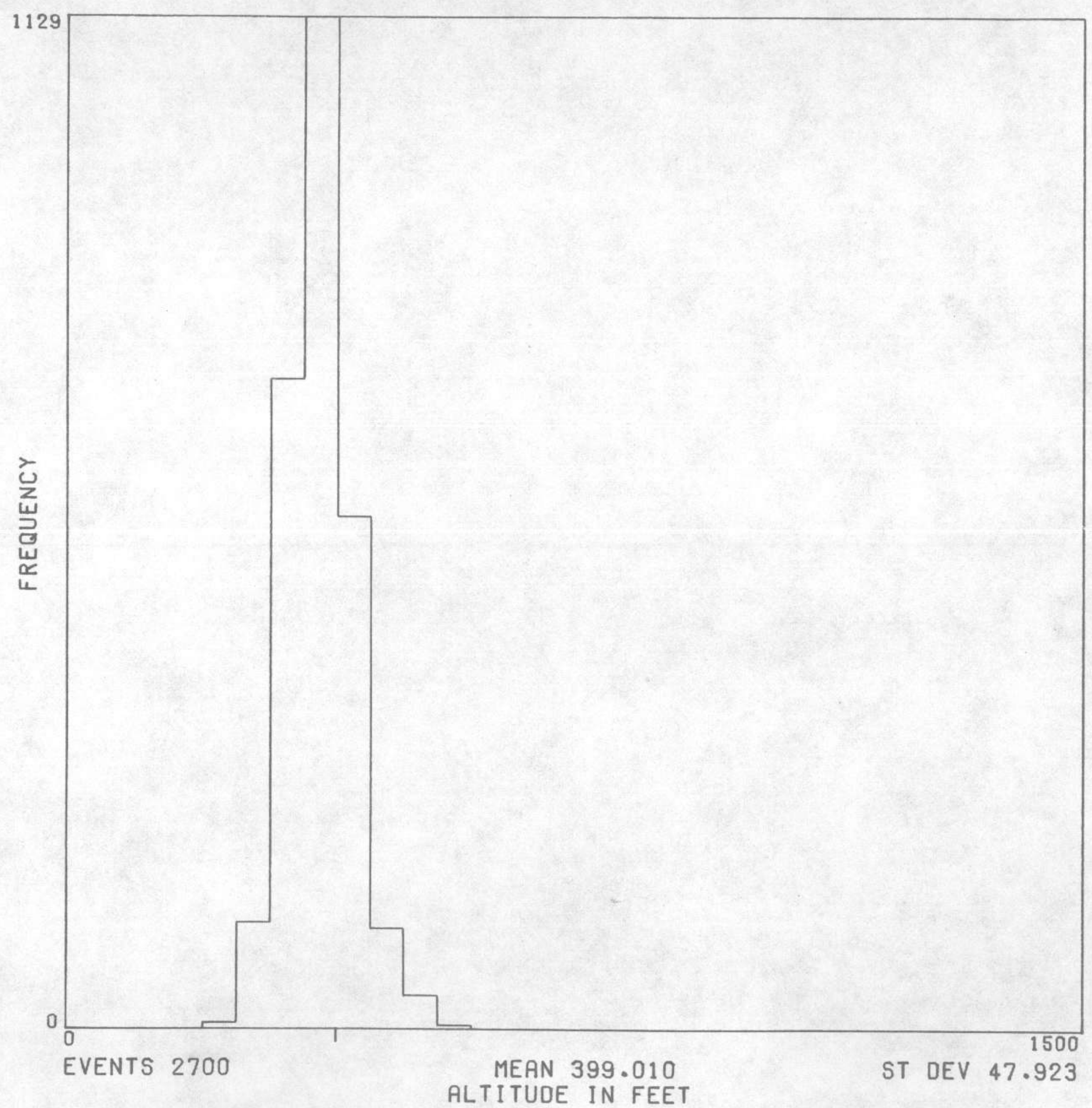
EVENTS 1780
MEAN 94.930
ST DEV 6.110
SPEED IN MPH

TL9N


1129
FREQUENCY
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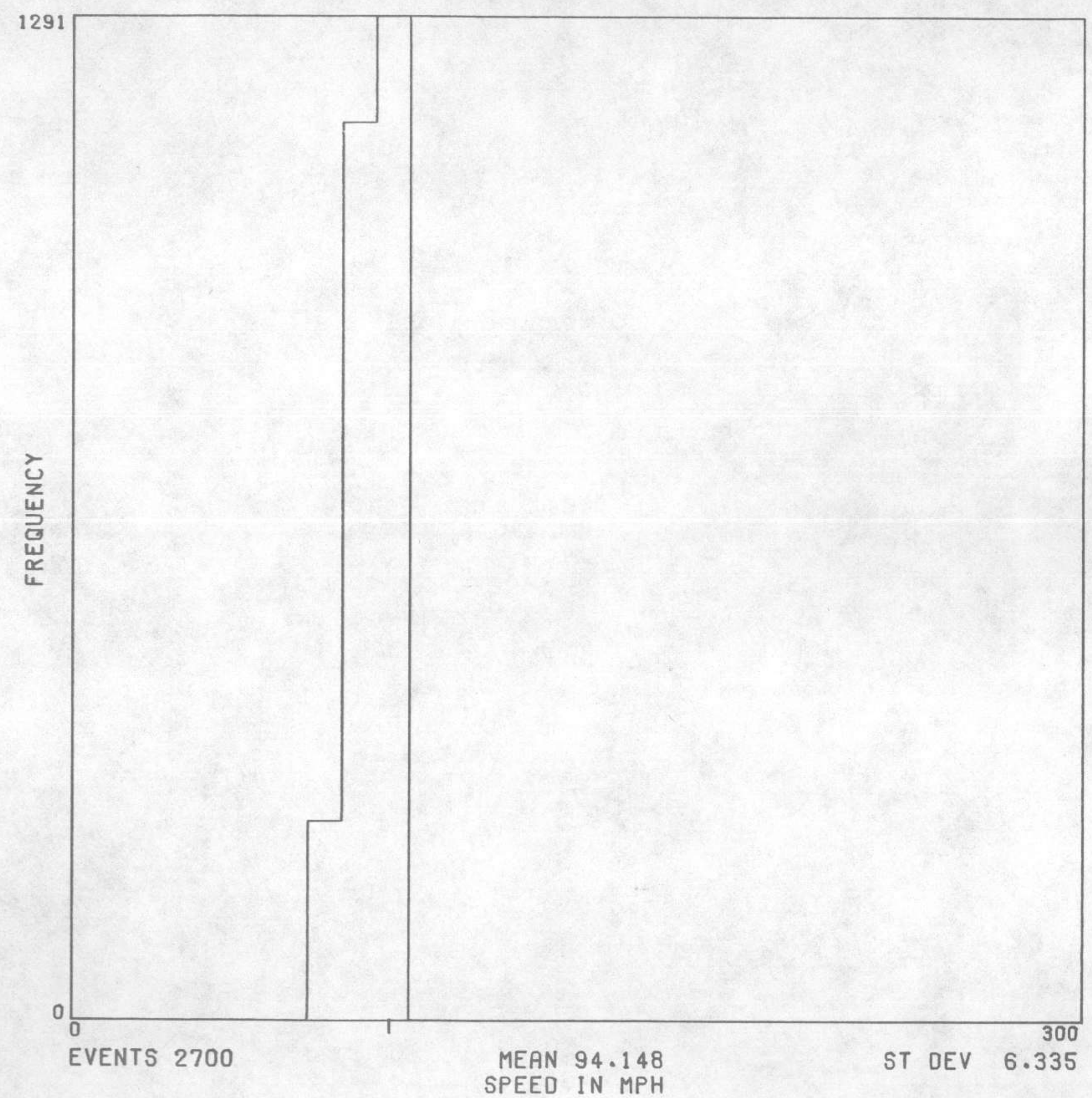
1500
EVENTS 2700
MEAN 399.010
ALTITUDE IN FEET
ST DEV 47.923


1291
FREQUENCY
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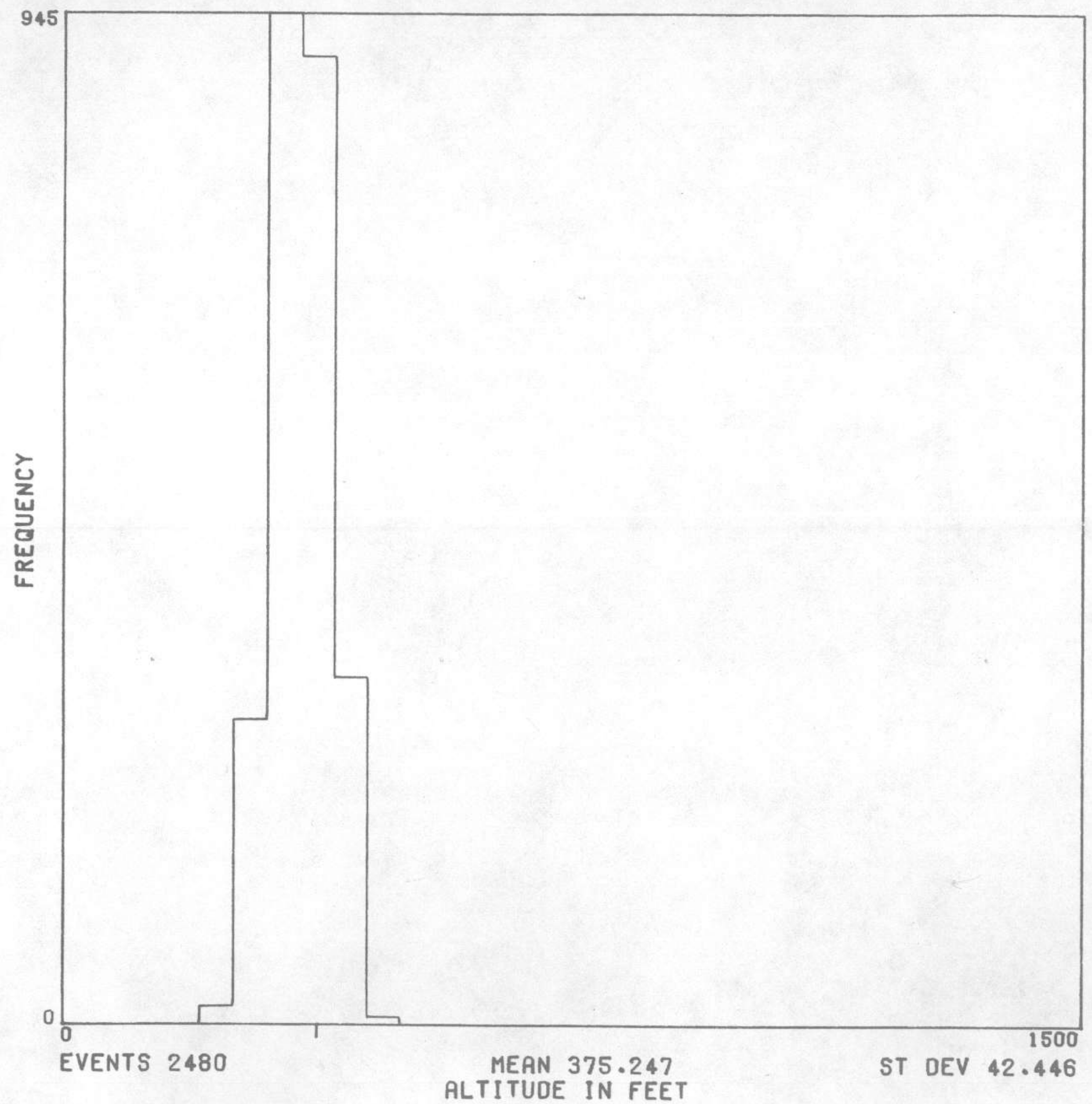
EVENTS 2700
MEAN 94.148
SPEED IN MPH
ST DEV 6.335

TL10



945
FREQUENCY
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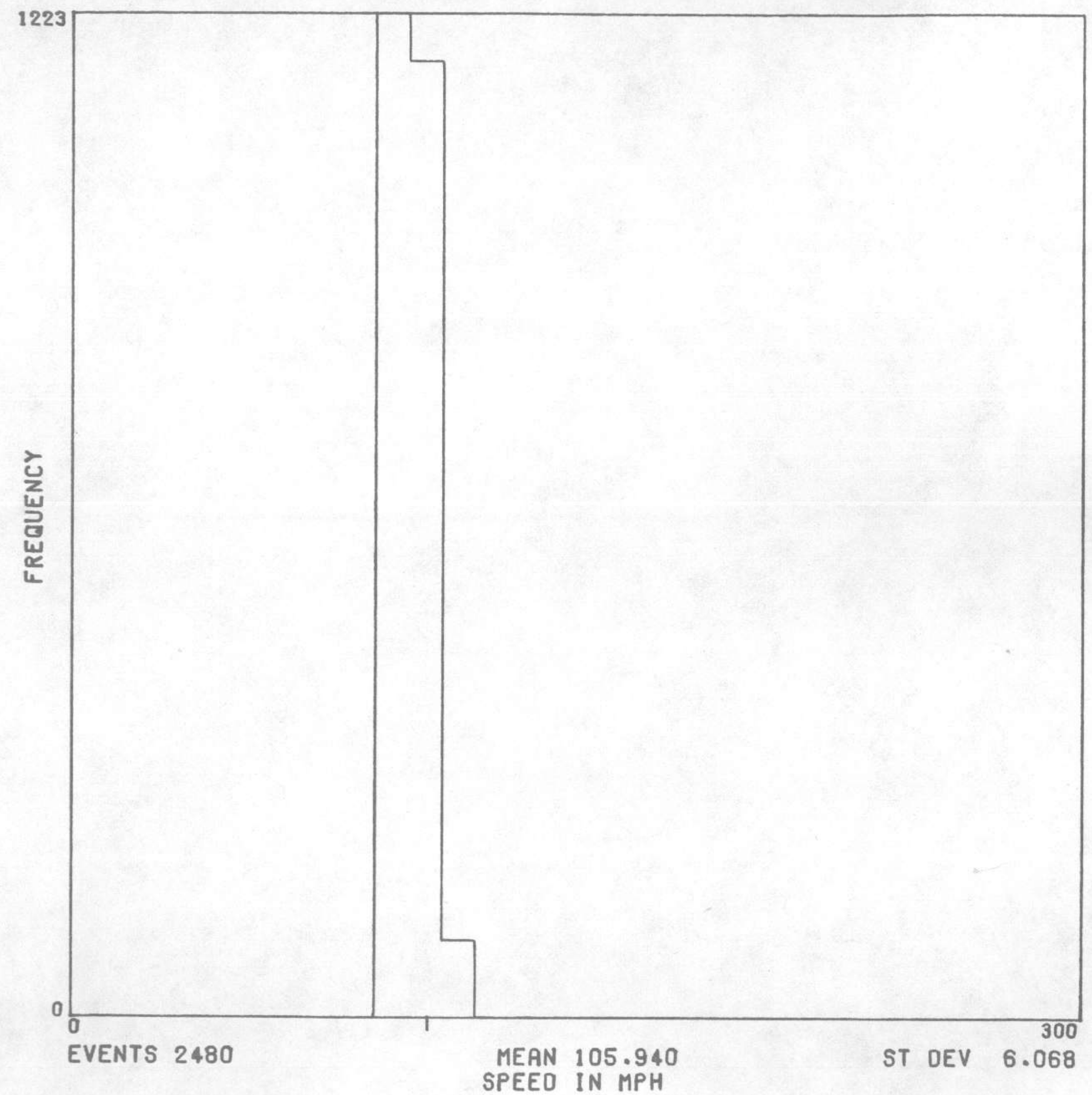
1500
EVENTS 2480
MEAN 375.247
ALTITUDE IN FEET
ST DEV 42.446



1223
FREQUENCY
0
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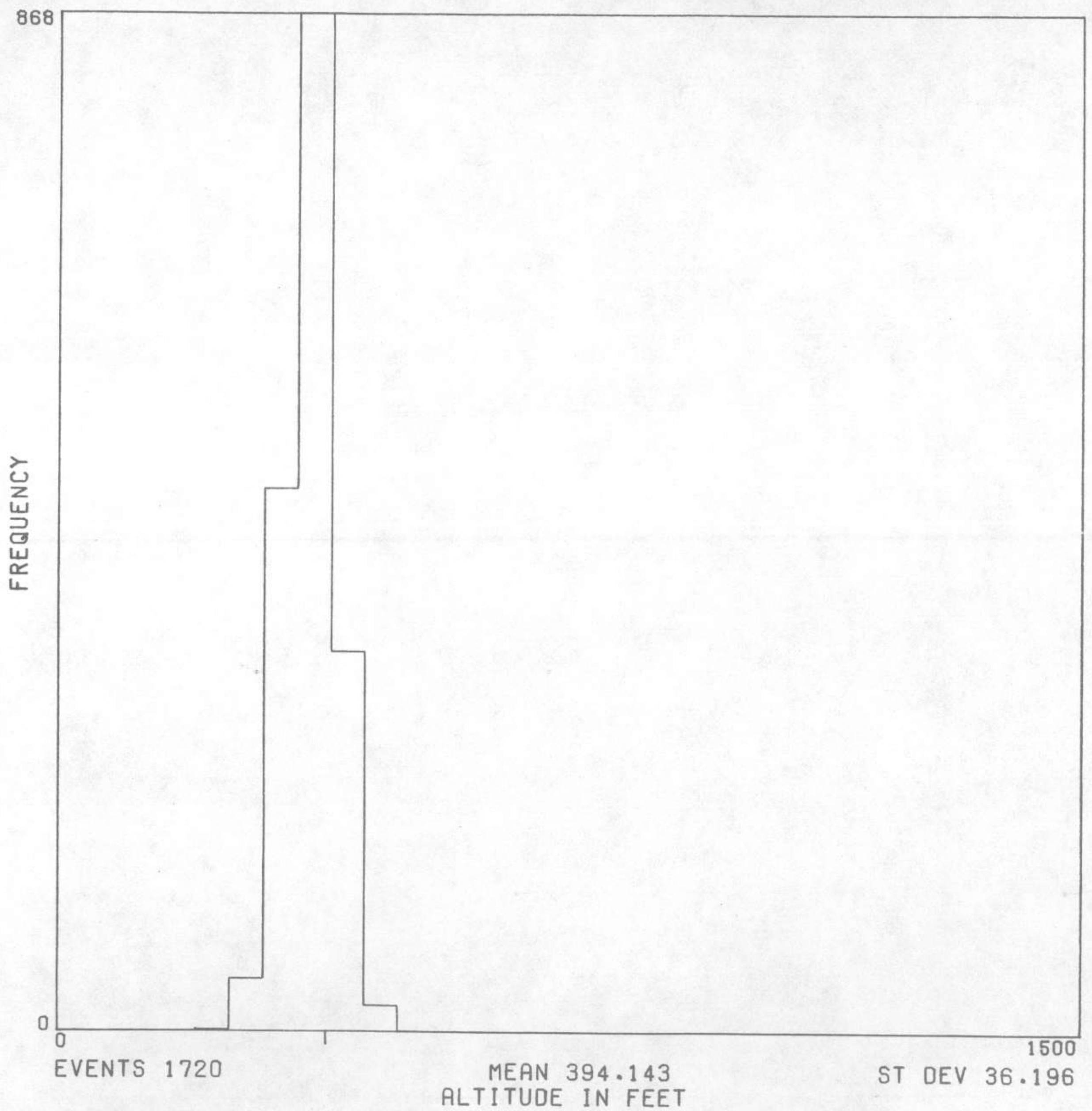
300
EVENTS 2480
MEAN 105.940
SPEED IN MPH
ST DEV 6.068

1W


868
FREQUENCY
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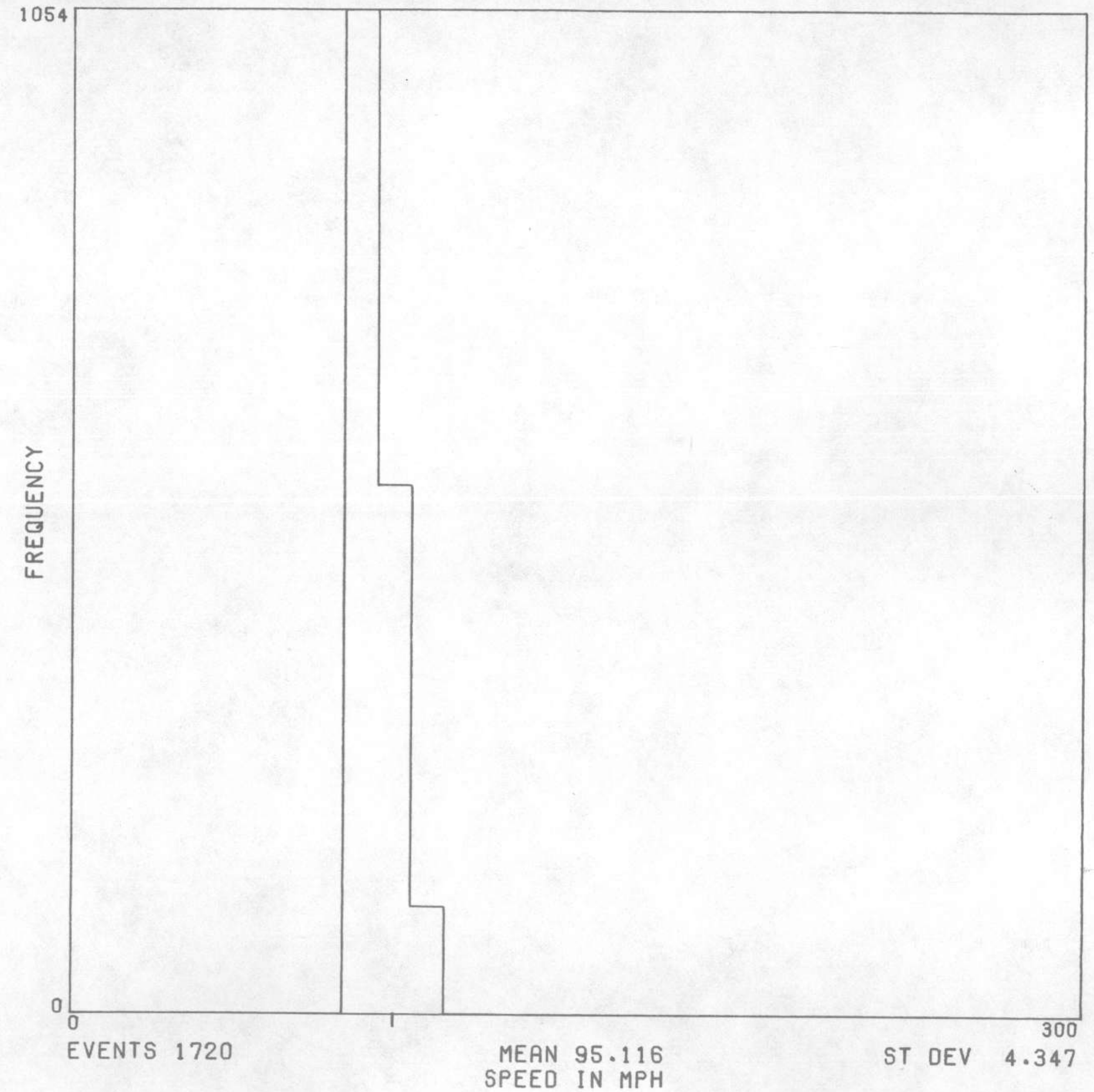
EVENTS 1720
MEAN 394.143
ALTITUDE IN FEET
ST DEV 36.196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EVENTS 1720
MEAN 95.116
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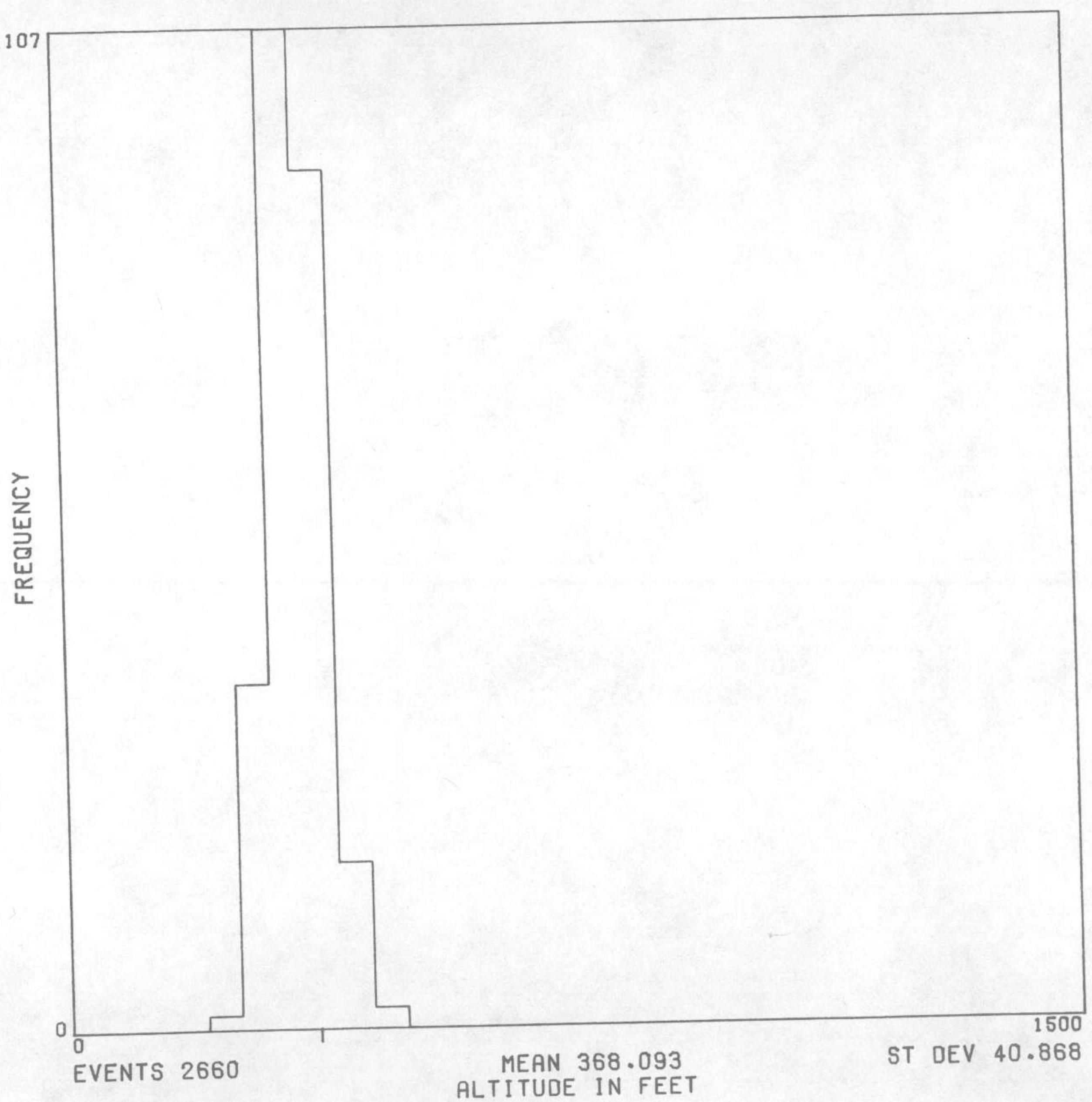
ST DEV 4.347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FREQUENCY
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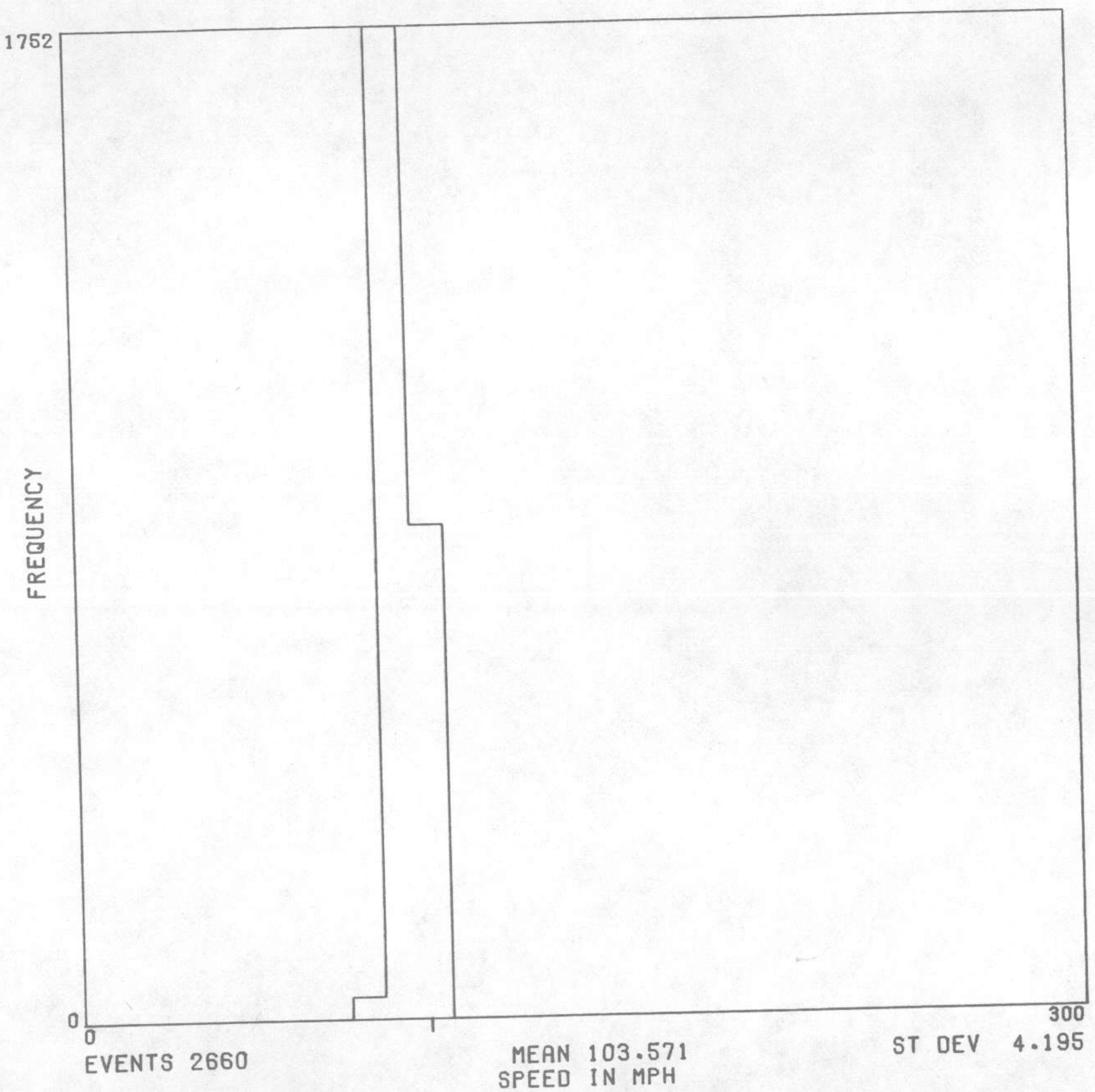
EVENTS 2660
MEAN 368.093
ALTITUDE IN FEET
ST DEV 40.868


1752
FREQUENCY
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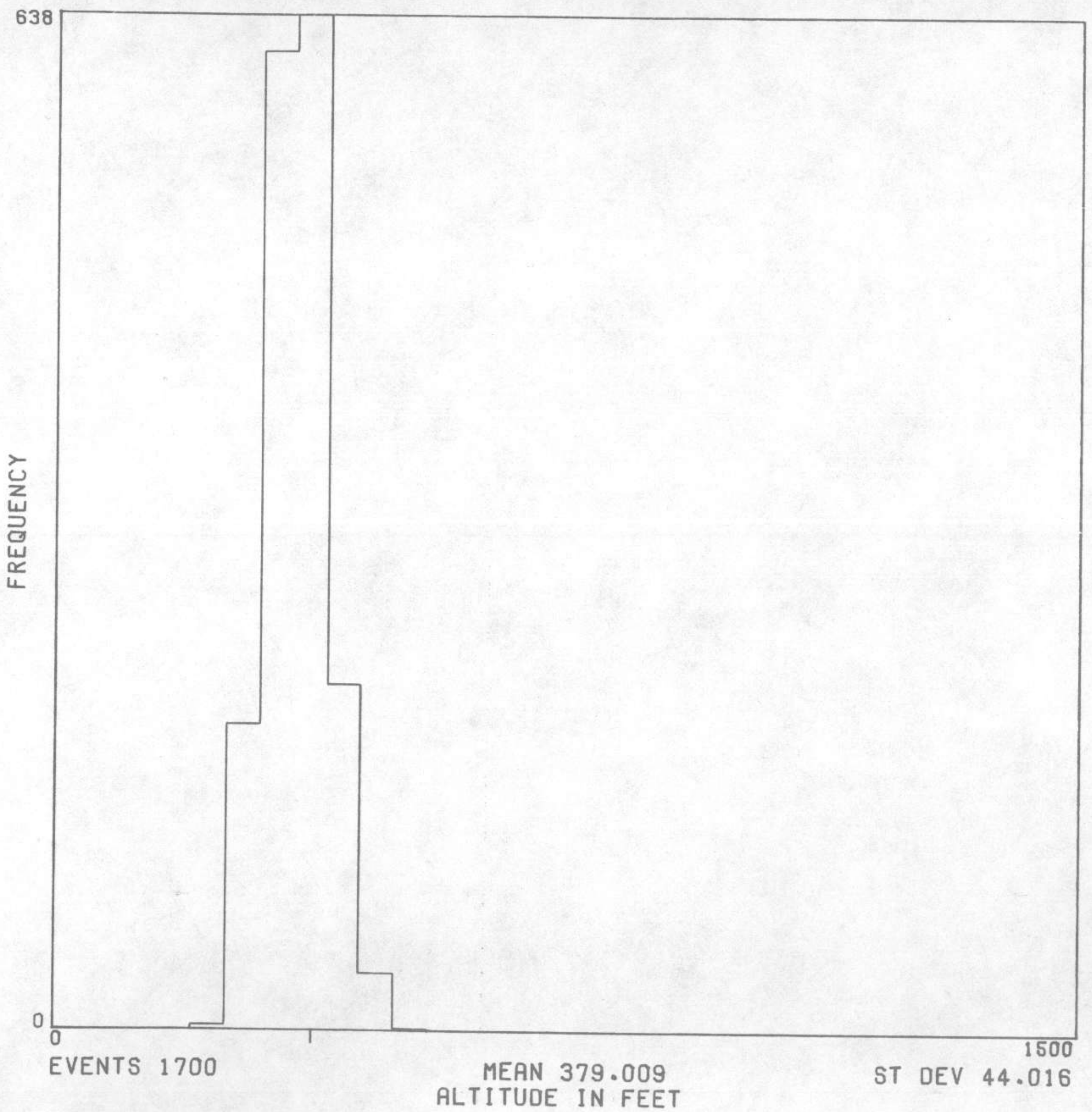
EVENTS 2660
MEAN 103.571
SPEED IN MPH
ST DEV 4.195

2W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FREQUENCY
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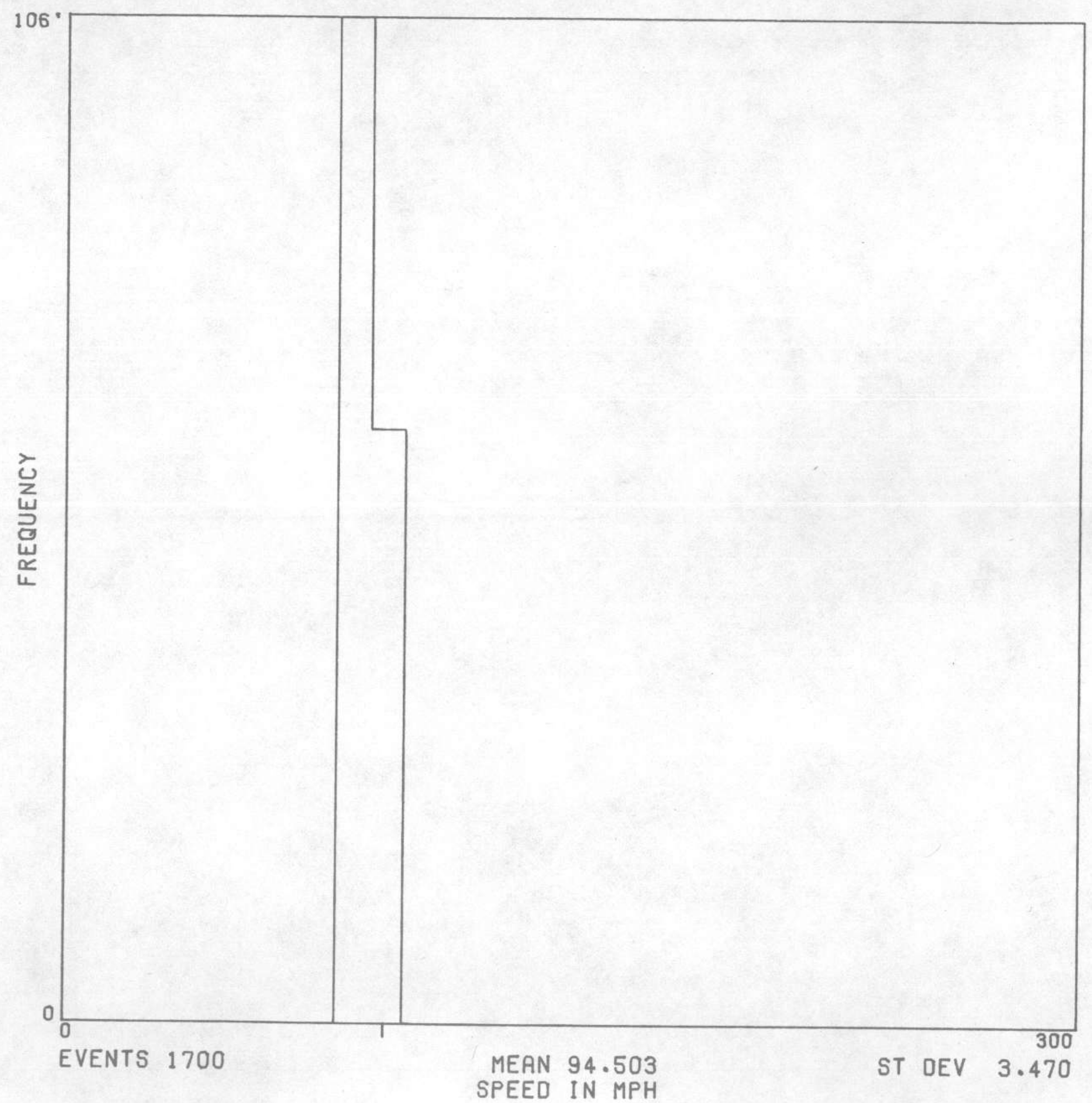
EVENTS 1700
MEAN 379.009
ALTITUDE IN FEET
ST DEV 44.016


106
FREQUENCY
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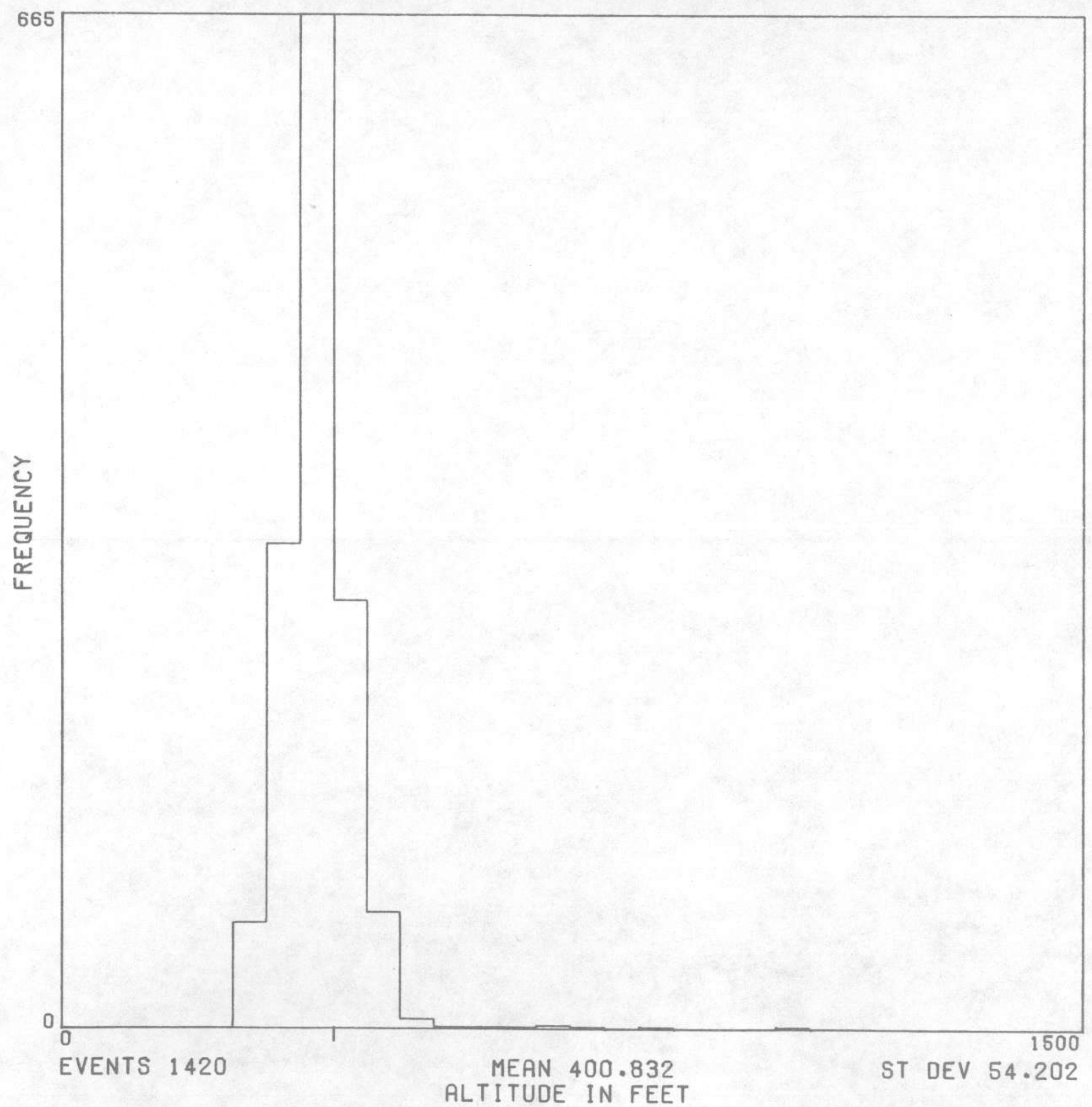
EVENTS 1700
MEAN 94.503
SPEED IN MPH
ST DEV 3.470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FREQUENCY
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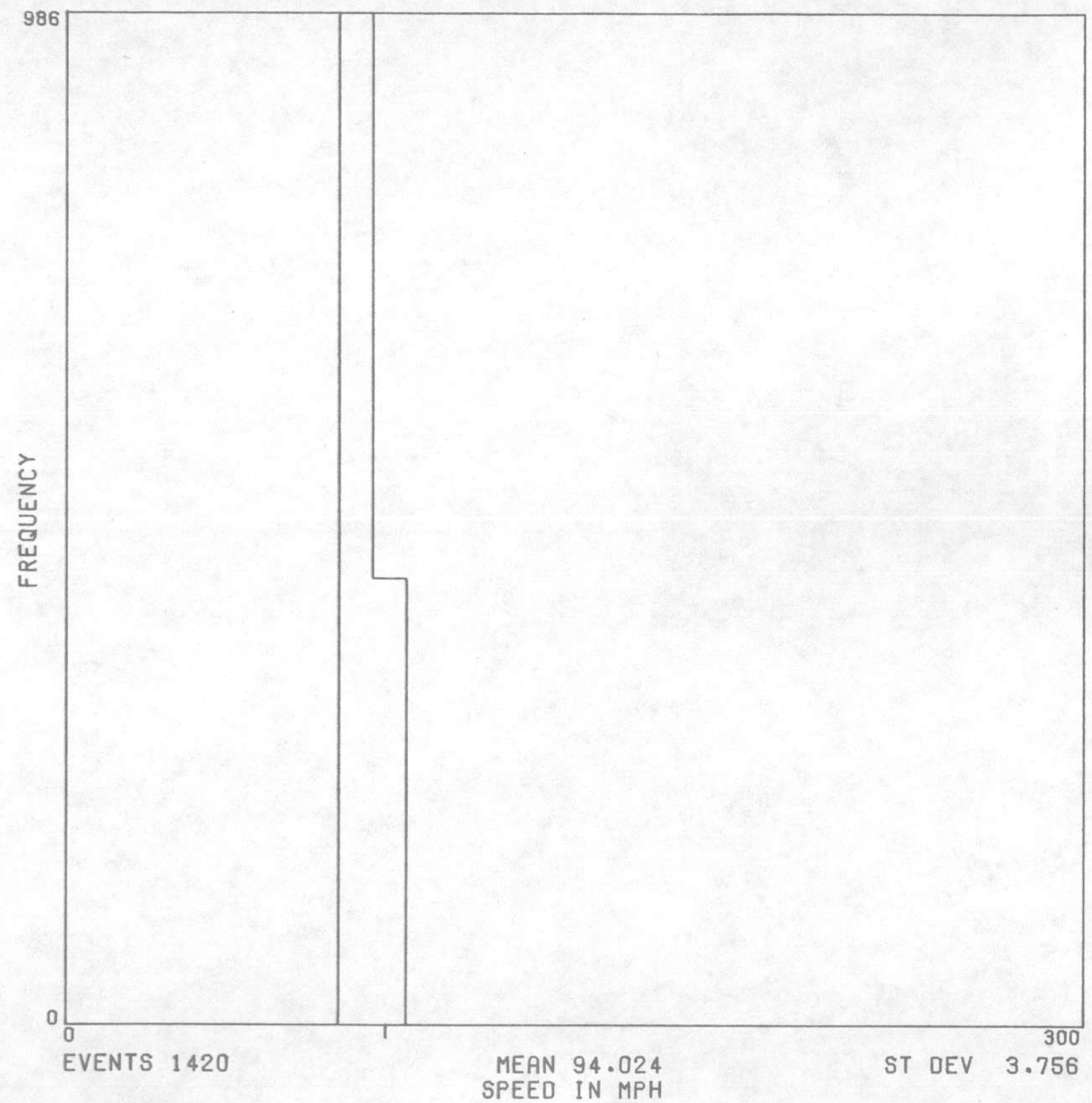
EVENTS 1420
MEAN 400.832
ALTITUDE IN FEET
ST DEV 54.202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EVENTS 1420
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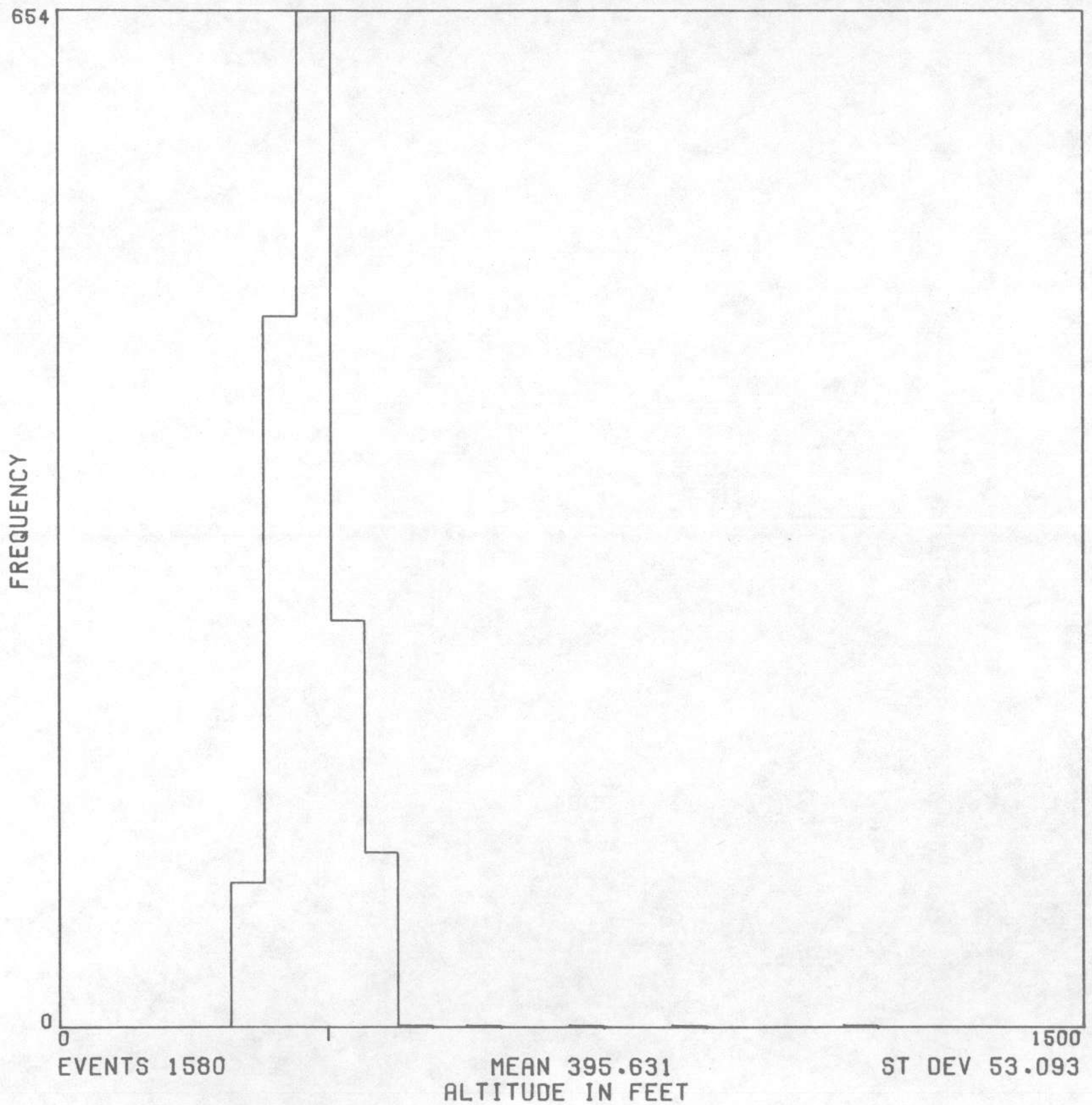
ST DEV 3.756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FREQUENCY
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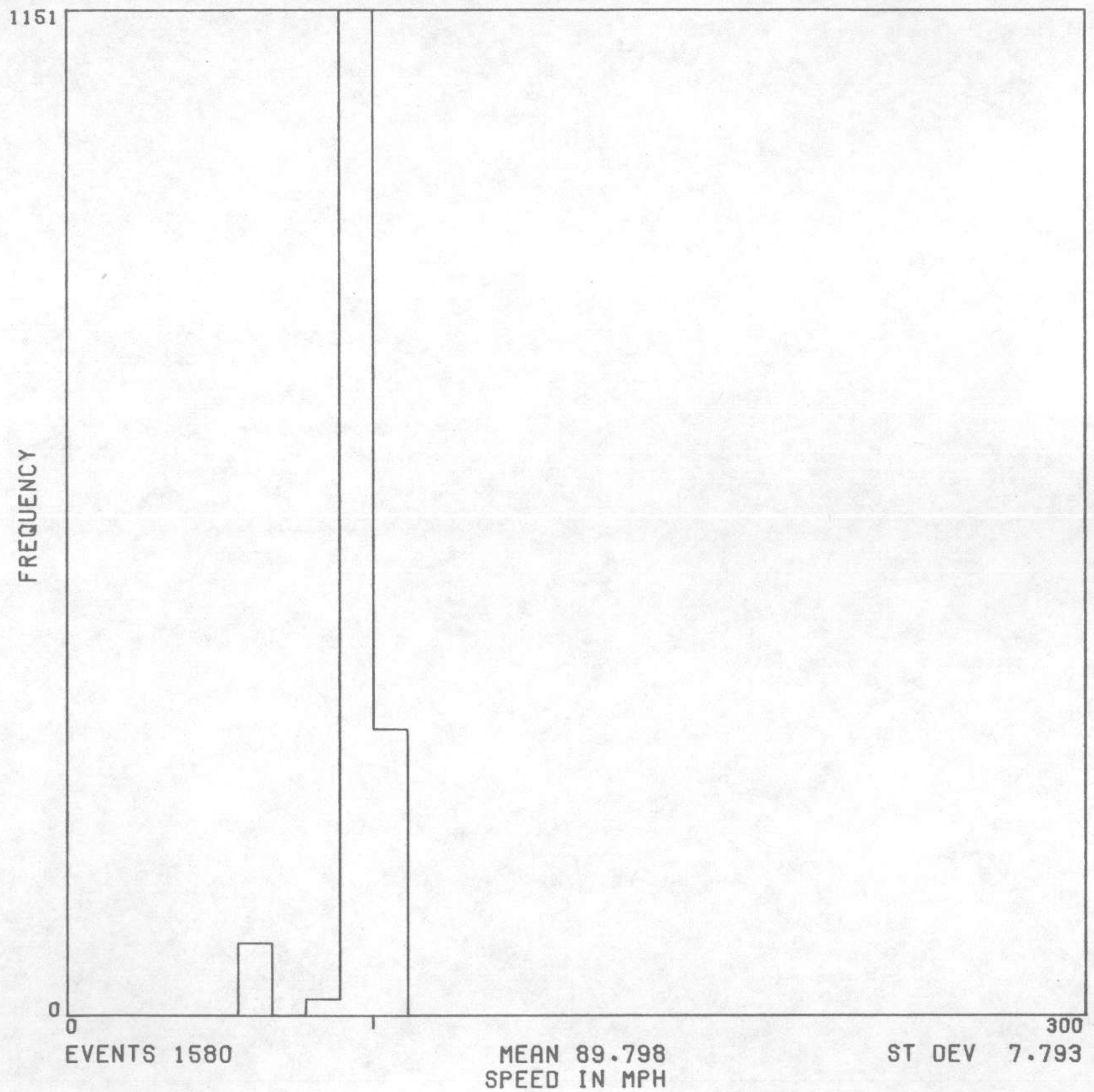
EVENTS 1580
MEAN 395.631
ALTITUDE IN FEET
ST DEV 53.093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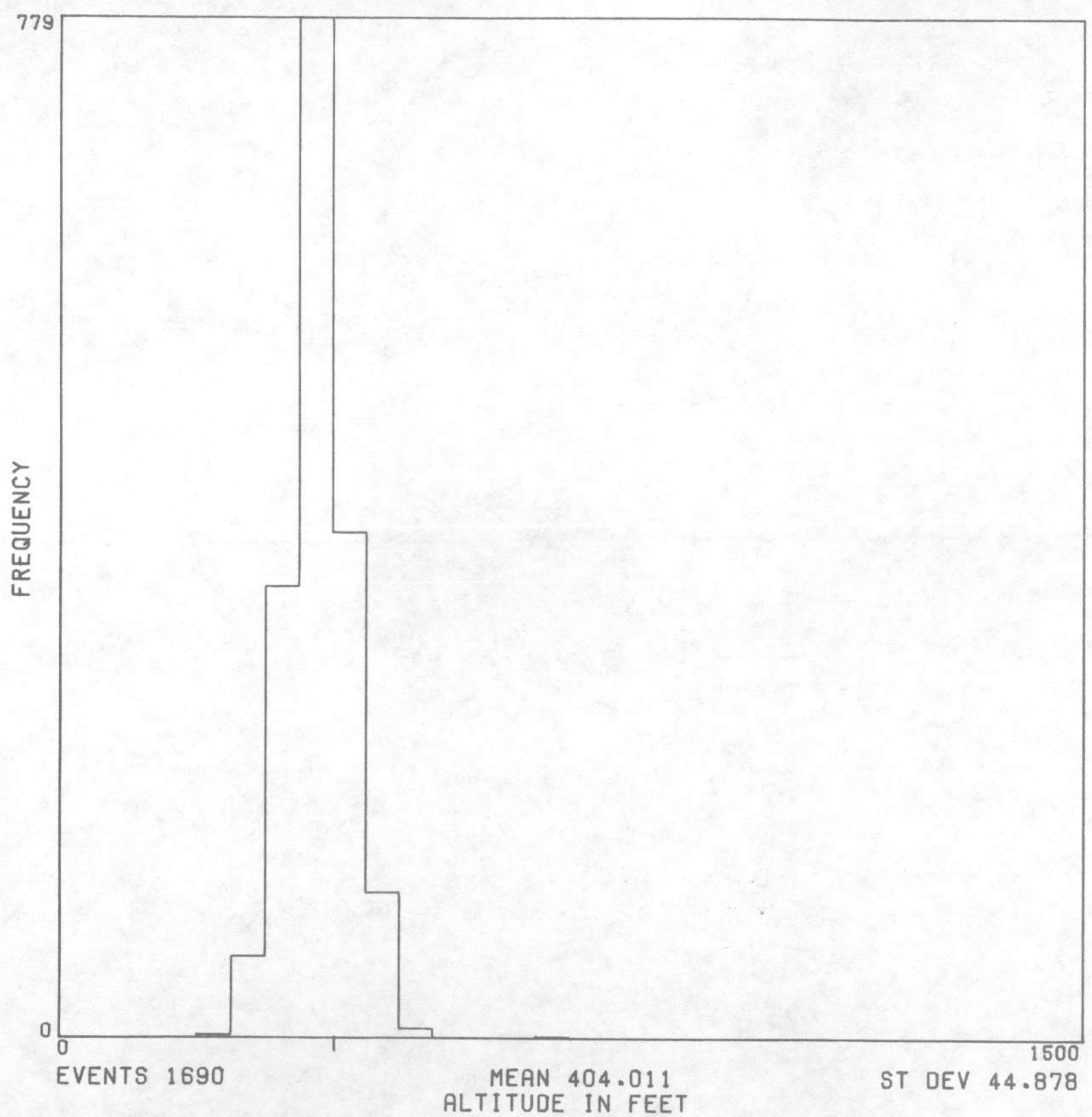
EVENTS 1580
MEAN 89.798
SPEED IN MPH
ST DEV 7.793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FREQUENCY
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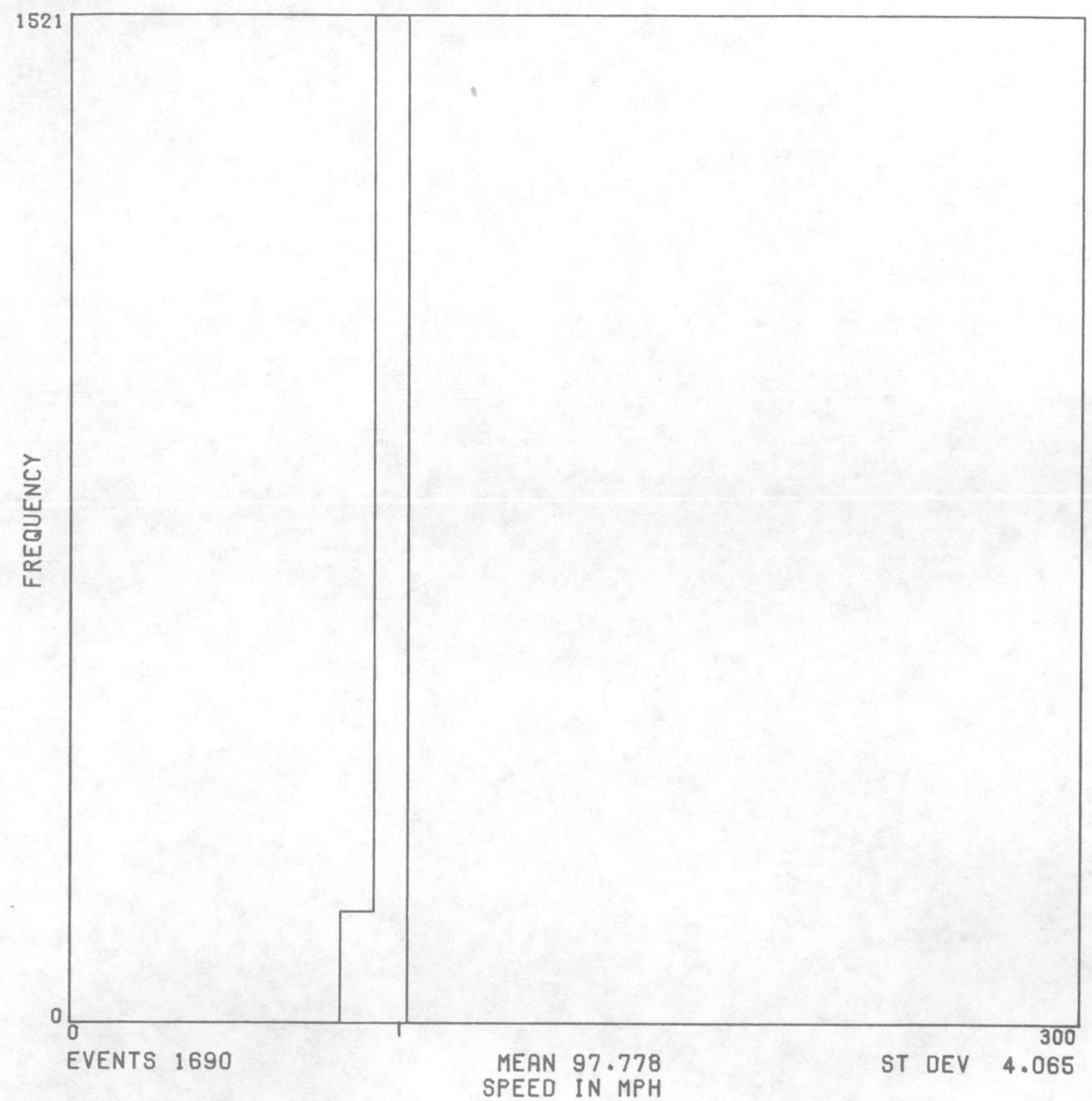
EVENTS 1690
MEAN 404.011
ALTITUDE IN FEET
ST DEV 44.878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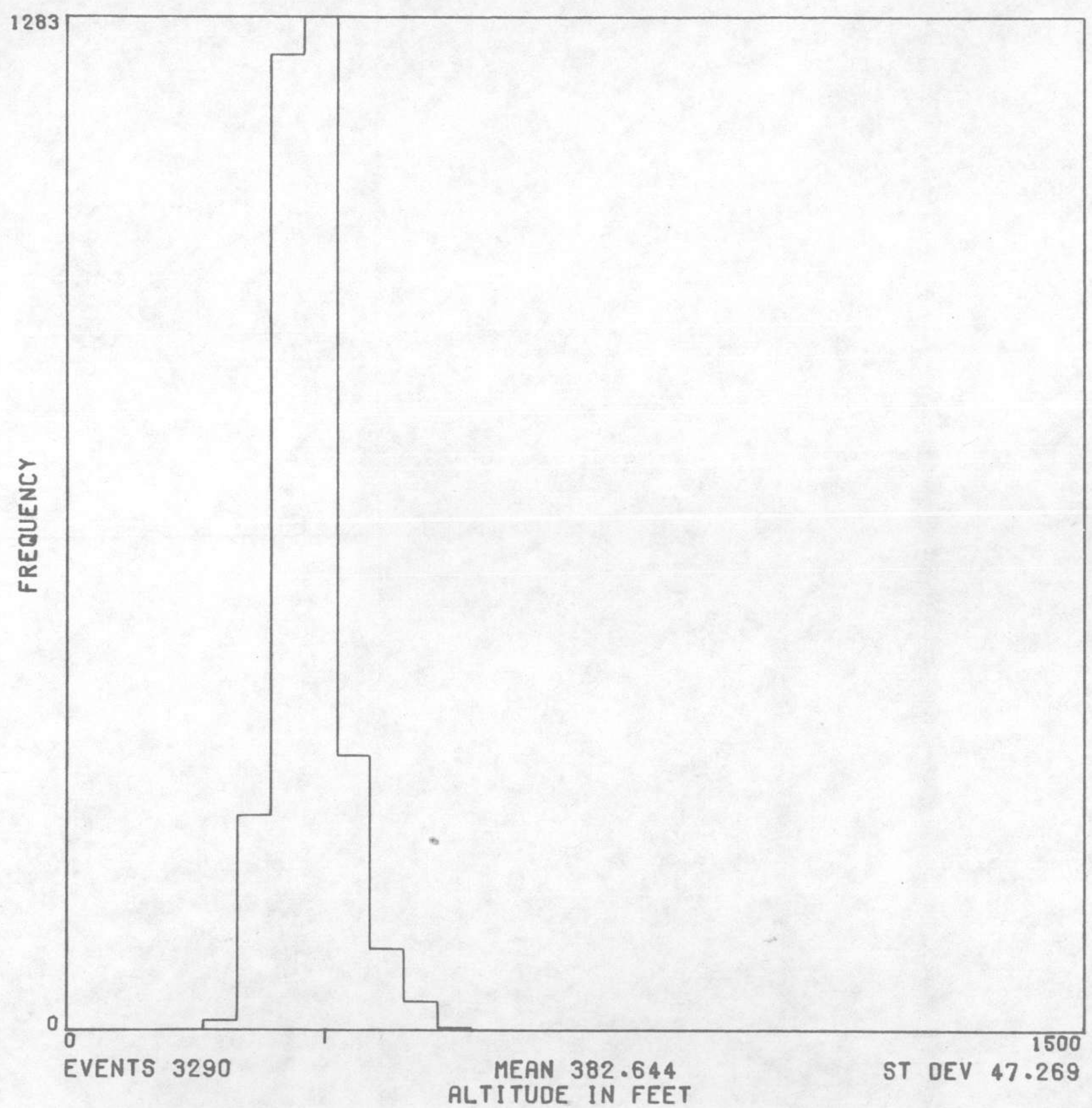
EVENTS 1690
MEAN 97.778
SPEED IN MPH
ST DEV 4.065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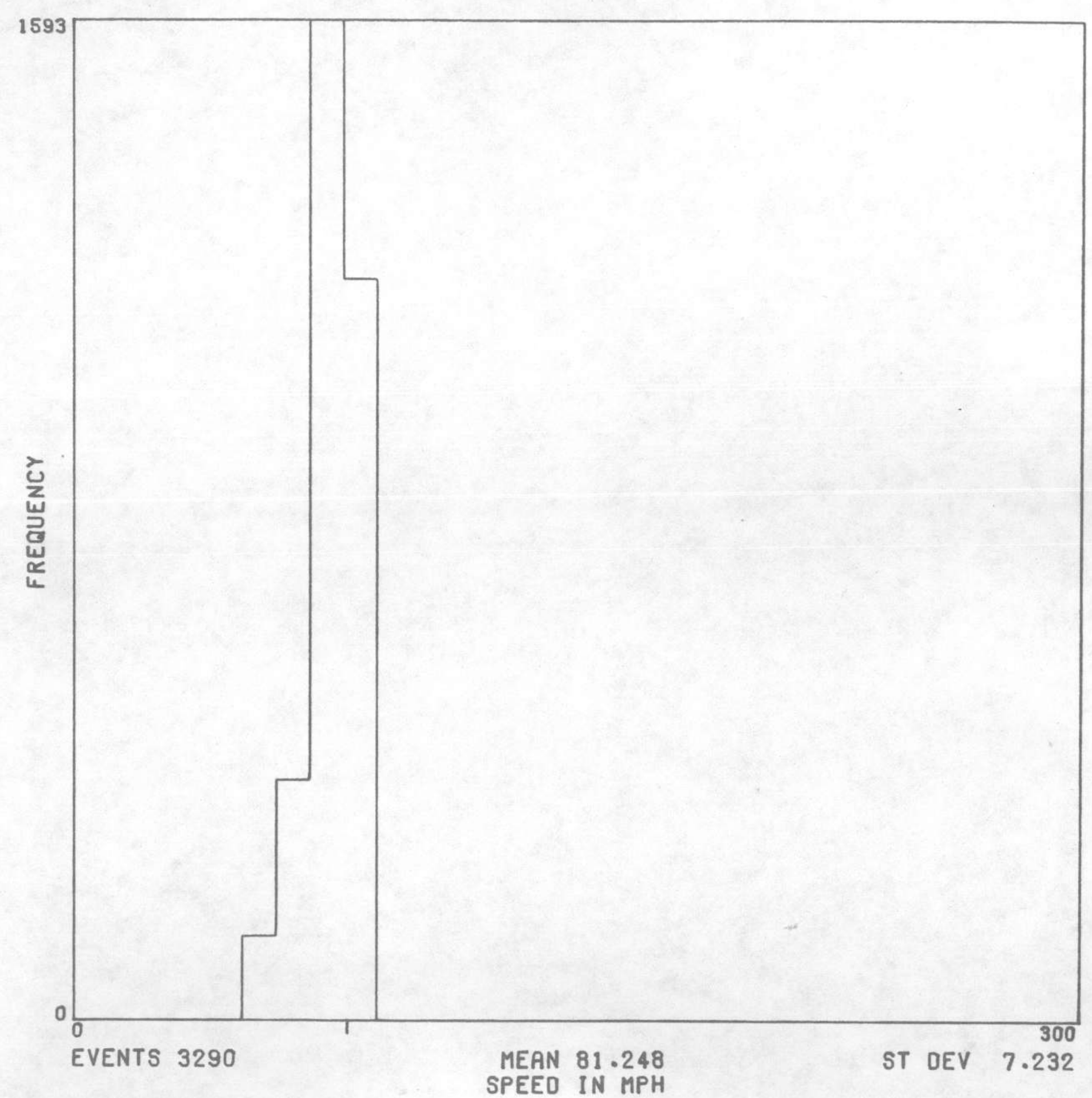
EVENTS 3290
MEAN 382.644
ALTITUDE IN FEET
ST DEV 47.269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FREQUENCY
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EVENTS 3290
MEAN 81.248
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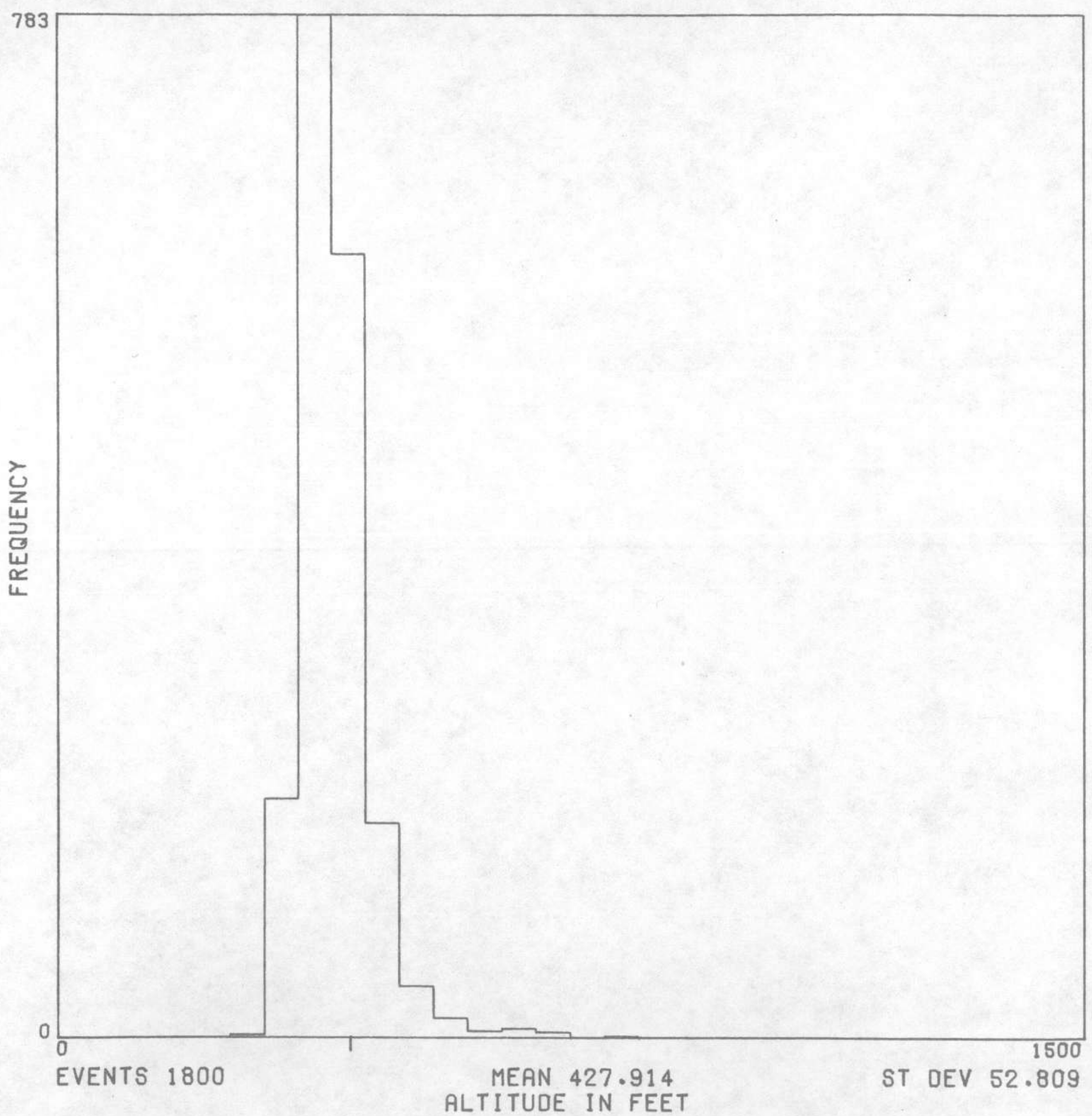
ST DEV 7.232


783
FREQUENCY
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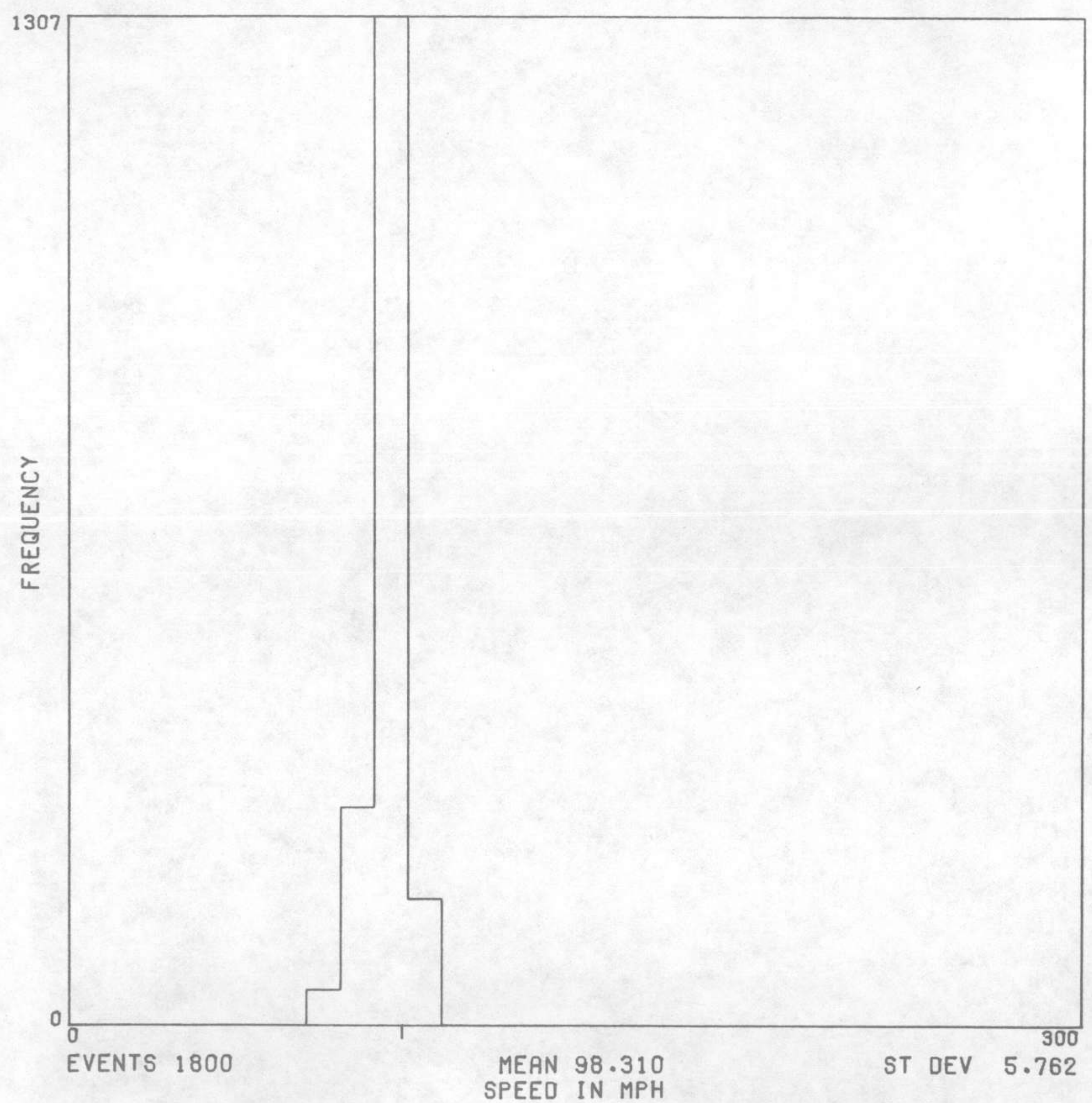
EVENTS 1800
MEAN 427.914
ALTITUDE IN FEET
ST DEV 52.809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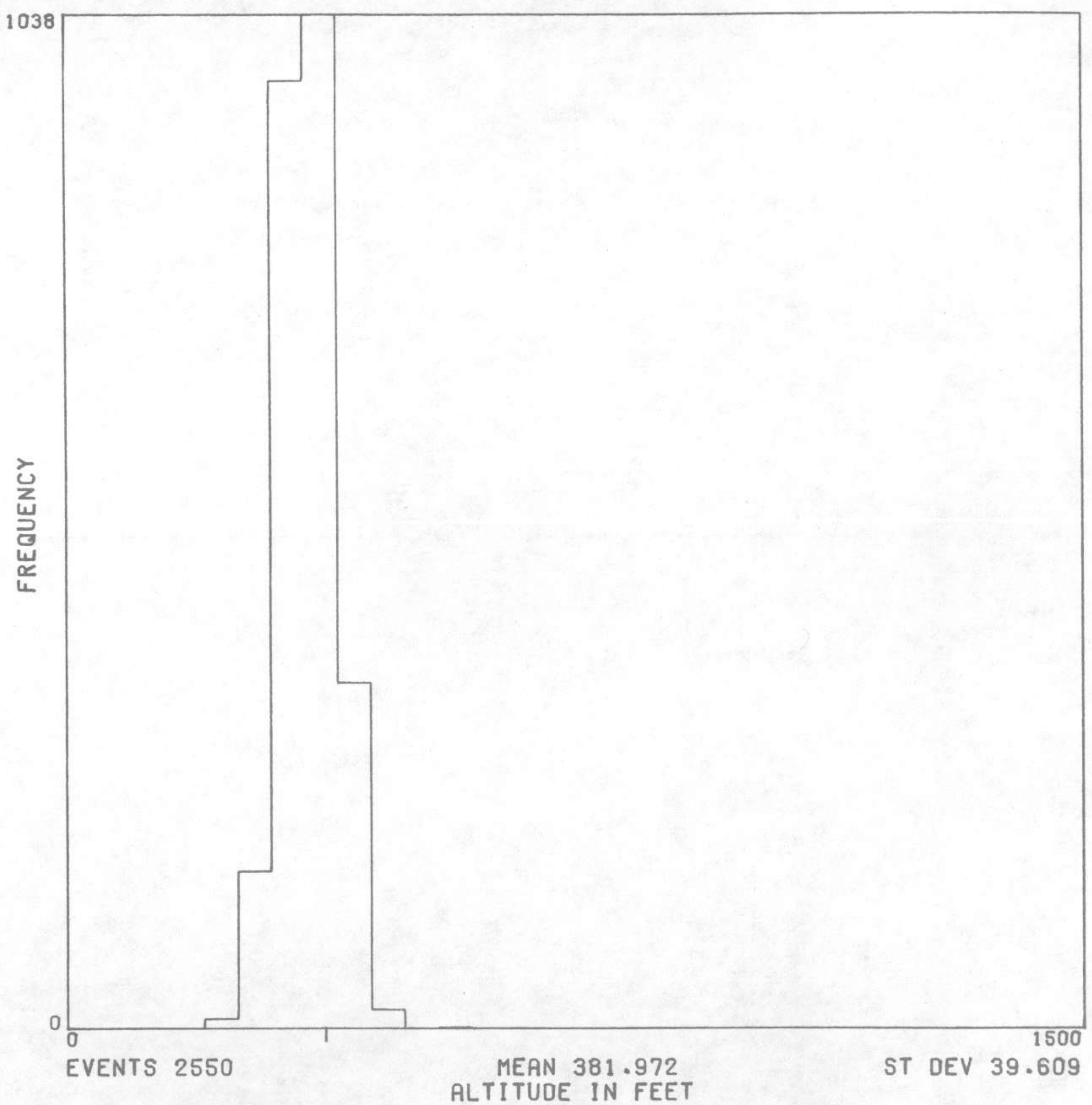
EVENTS 1800
MEAN 98.310
SPEED IN MPH
ST DEV 5.762


1038
FREQUENCY
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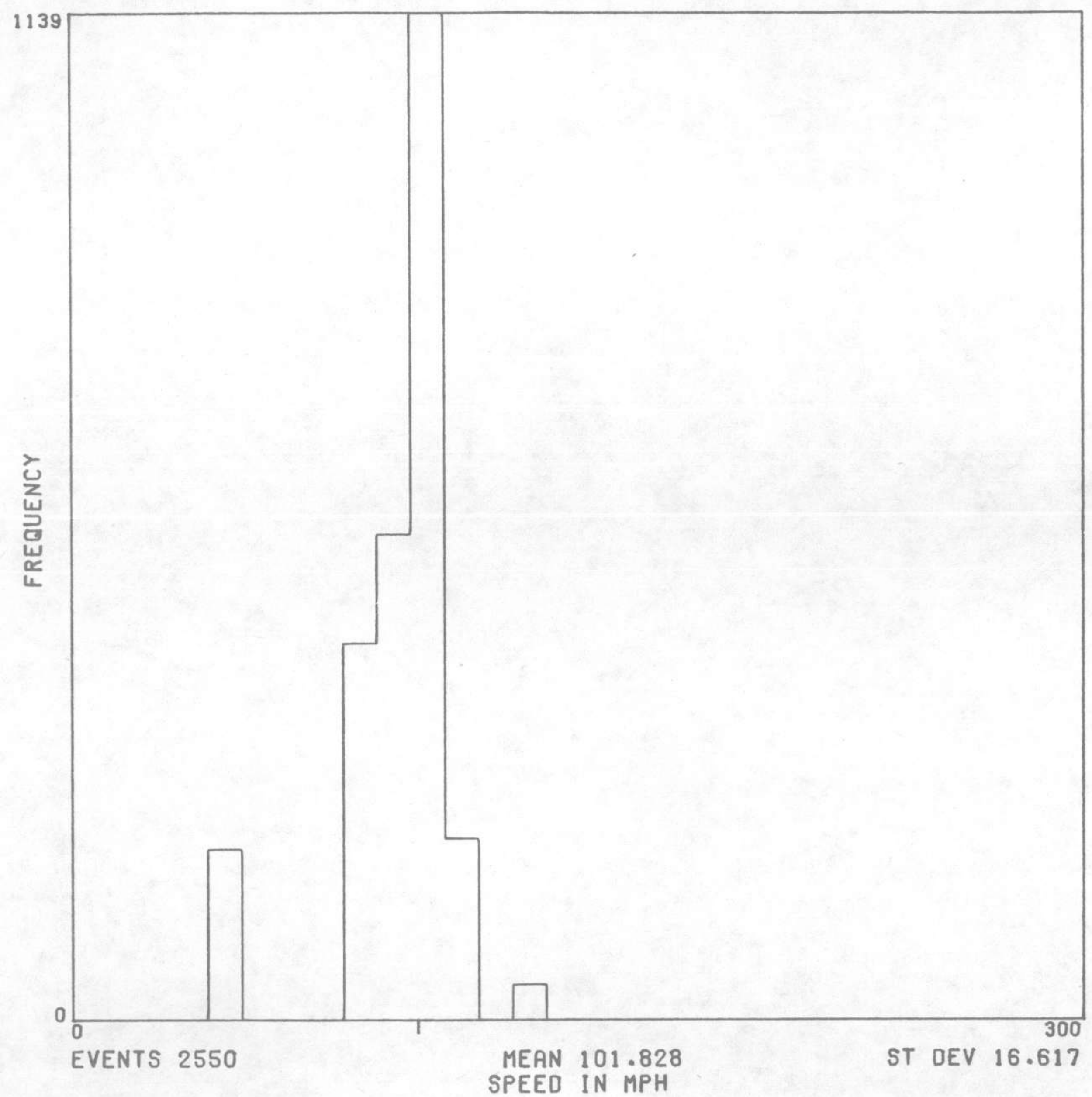
EVENTS 2550
MEAN 381.972
ST DEV 39.609
ALTITUDE IN FEET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FREQUENCY
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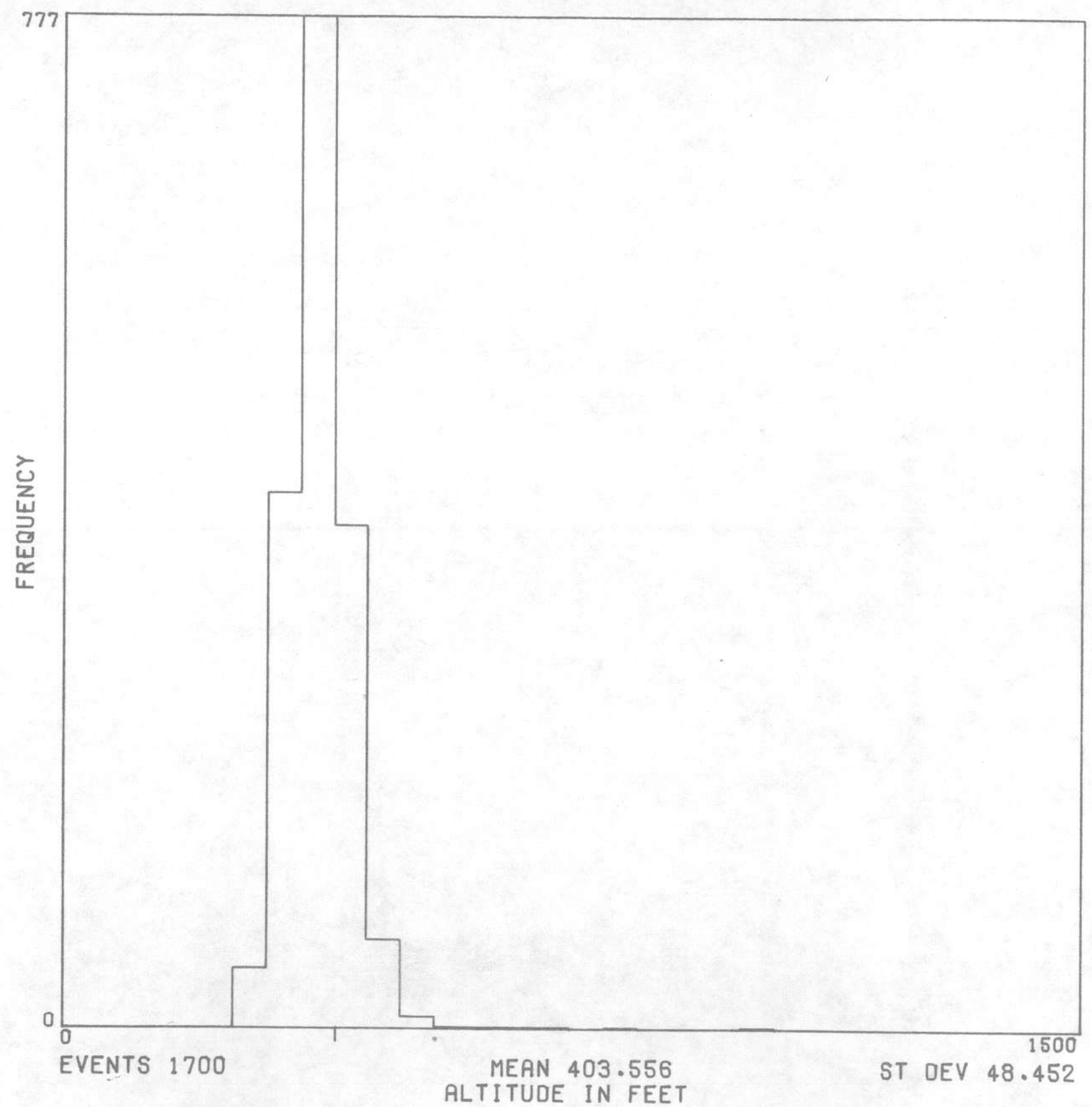
EVENTS 2550
MEAN 101.828
ST DEV 16.617
SPEED IN MPH

5W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EVENTS 1700
MEAN 403.556
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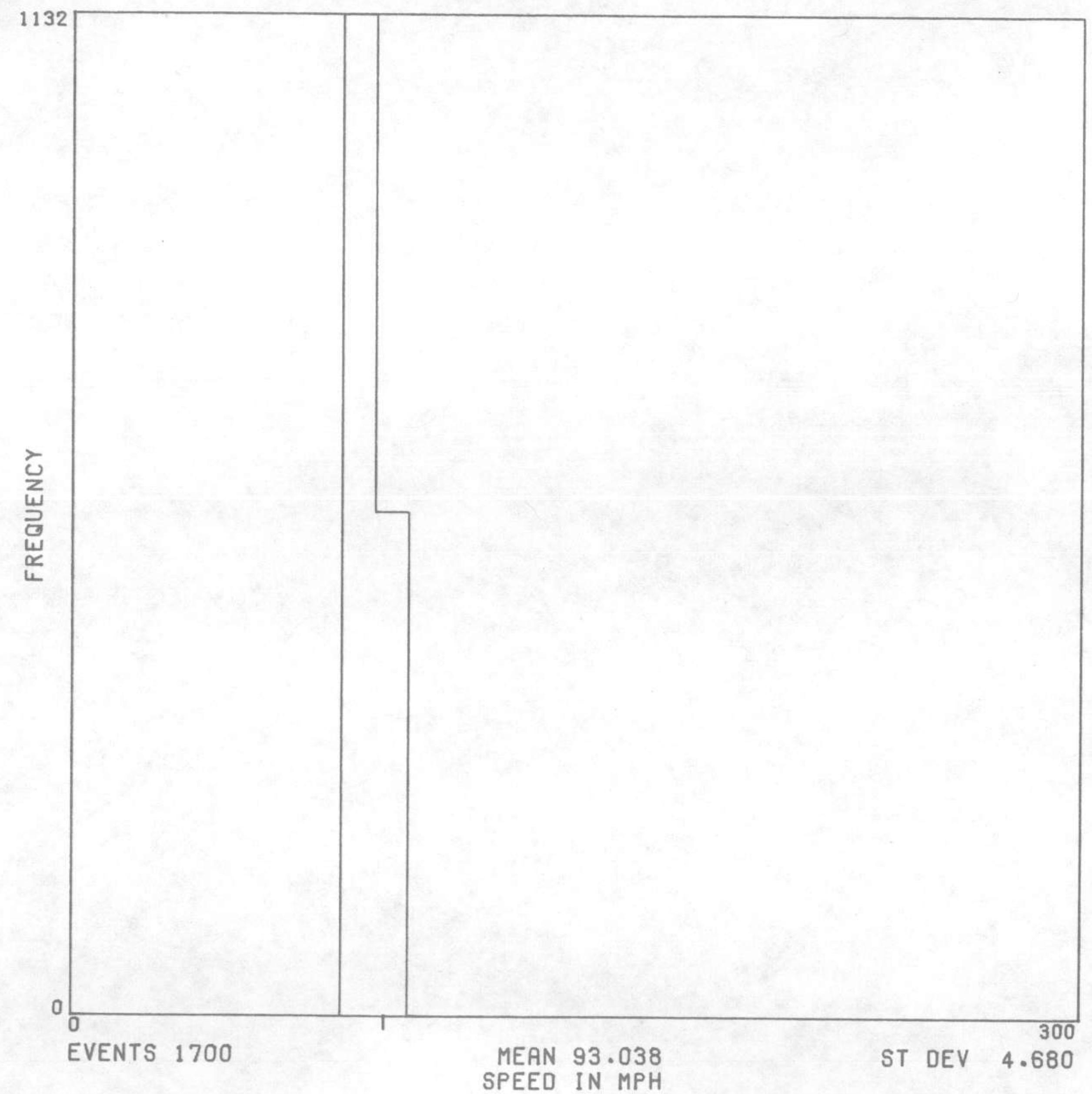
ST DEV 48.452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FREQUENCY
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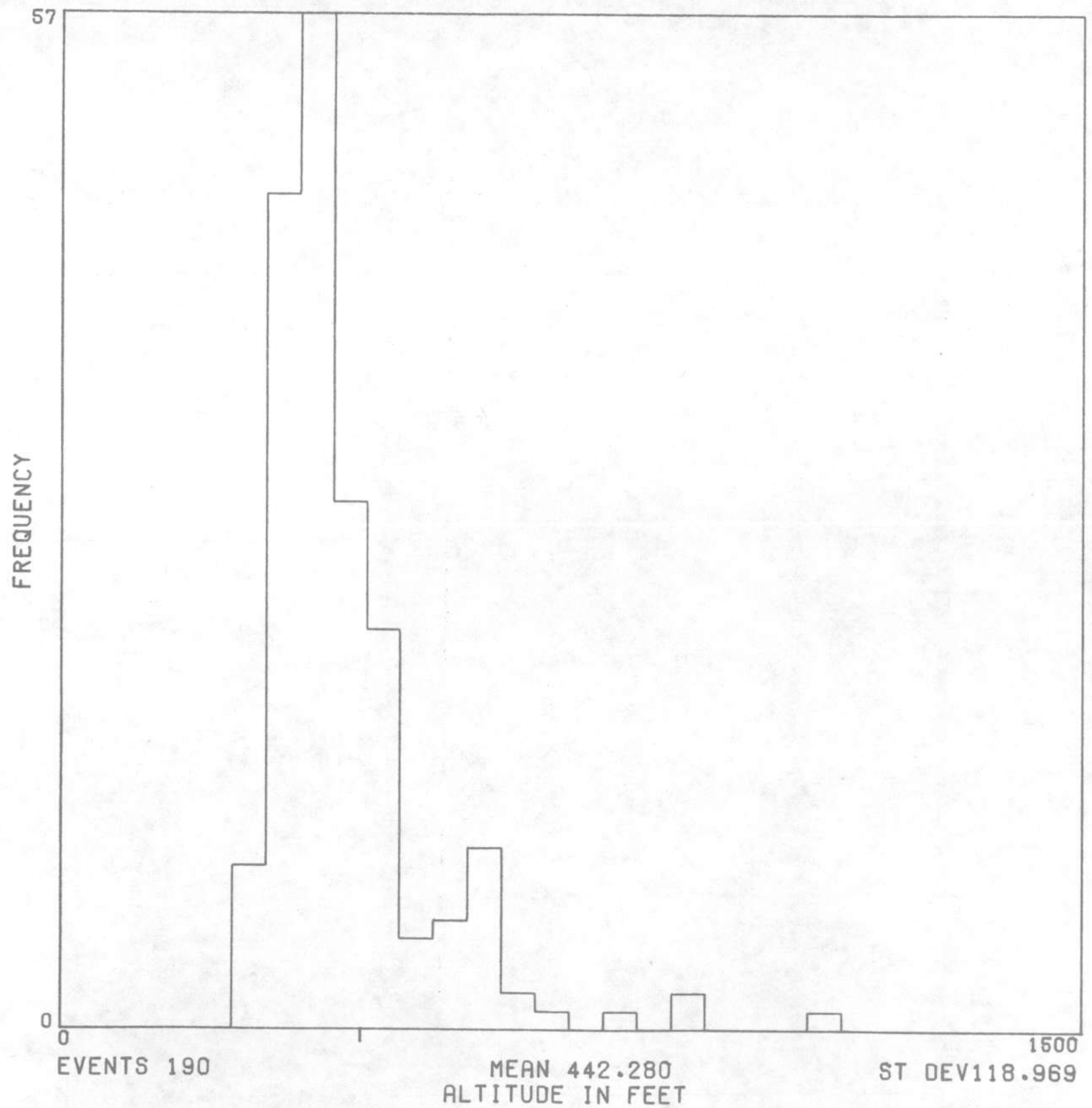
EVENTS 1700
MEAN 93.038
SPEED IN MPH
ST DEV 4.680

5E


57
FREQUENCY
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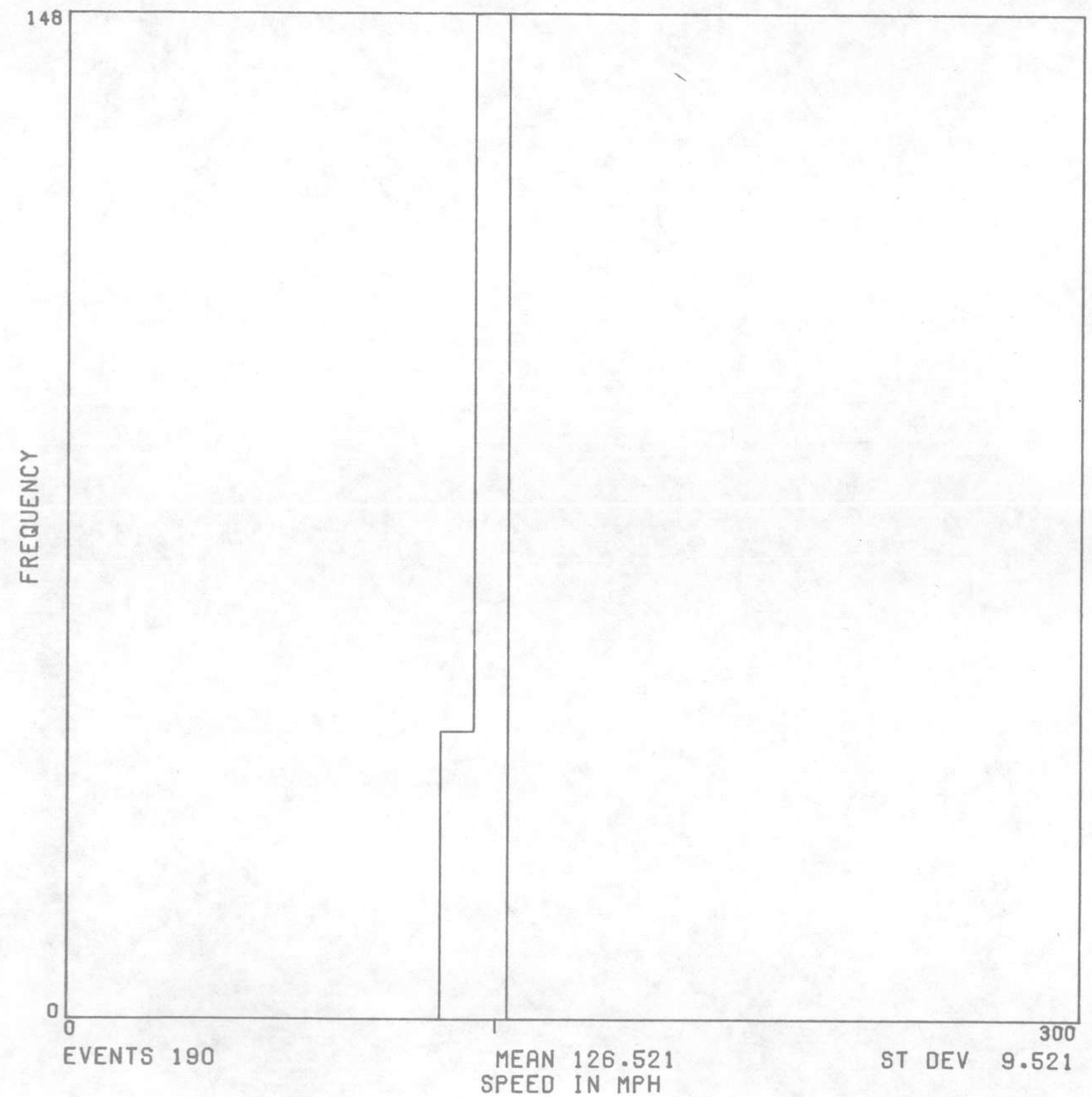
EVENTS 190
MEAN 442.280
ALTITUDE IN FEET
ST DEV118.969


148
FREQUENCY
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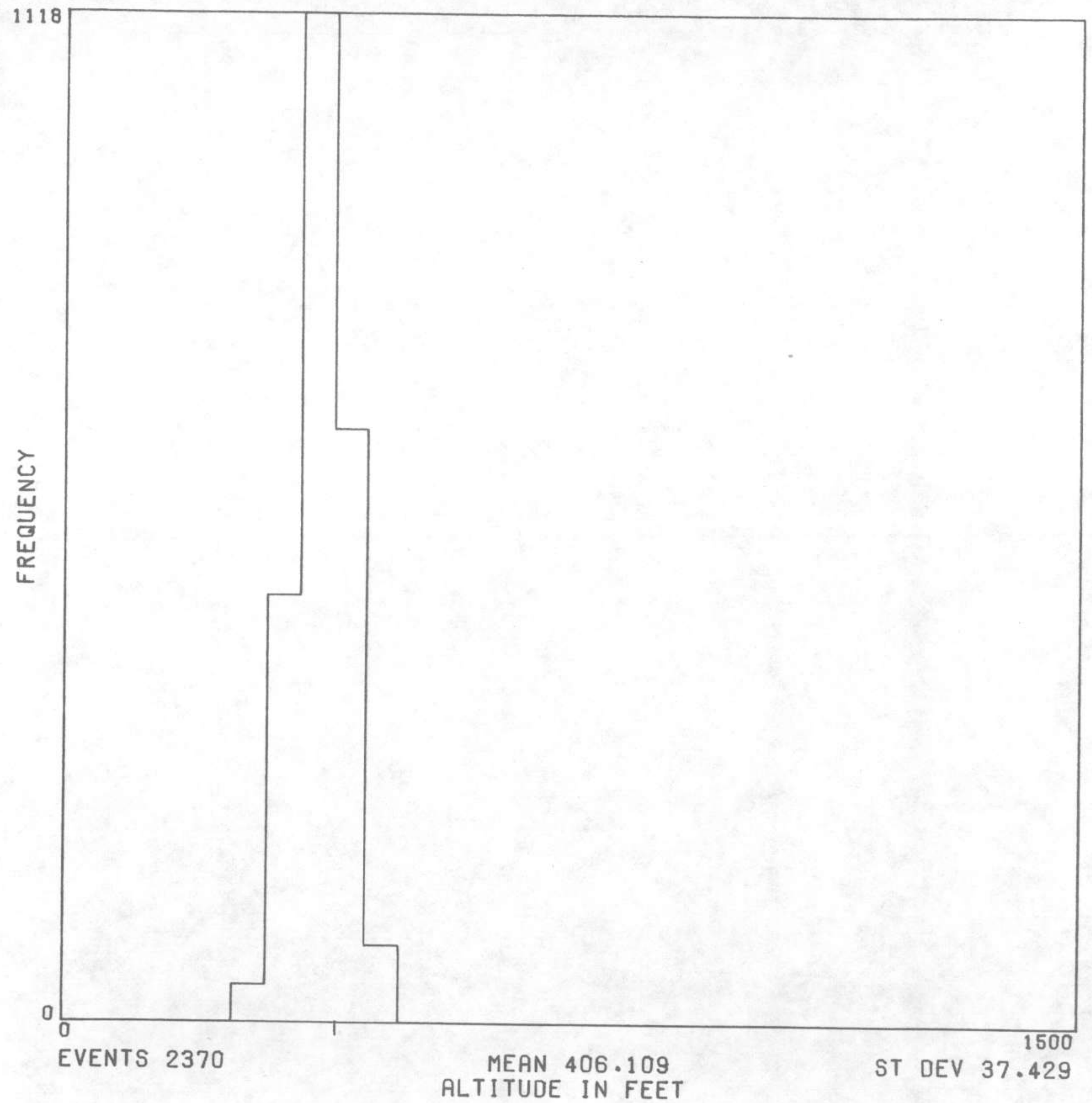
300
EVENTS 190
MEAN 126.521
SPEED IN MPH
ST DEV 9.521


1118
FREQUENCY
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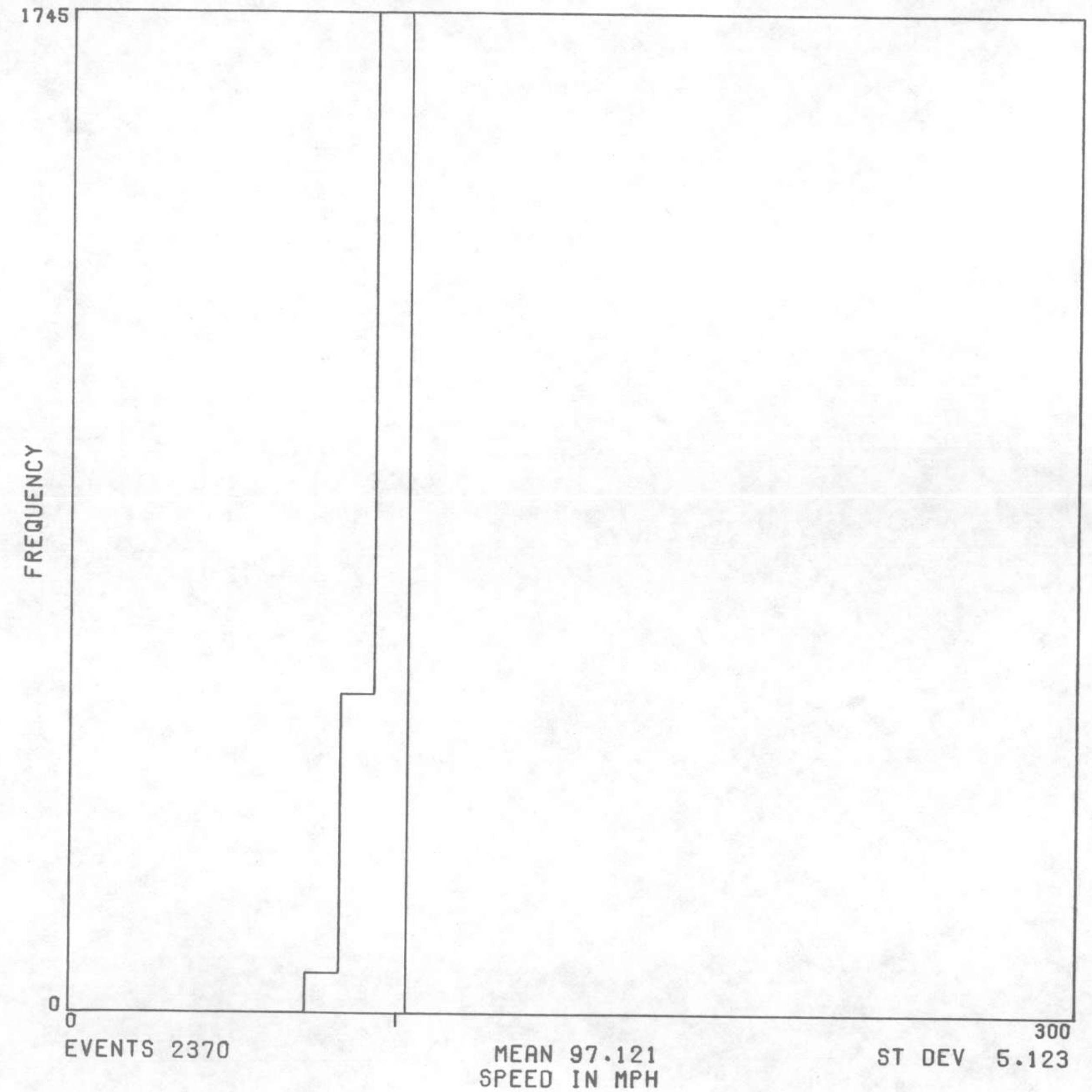
1500
EVENTS 2370
MEAN 406.109
ALTITUDE IN FEET
ST DEV 37.429


1745
FREQUENCY
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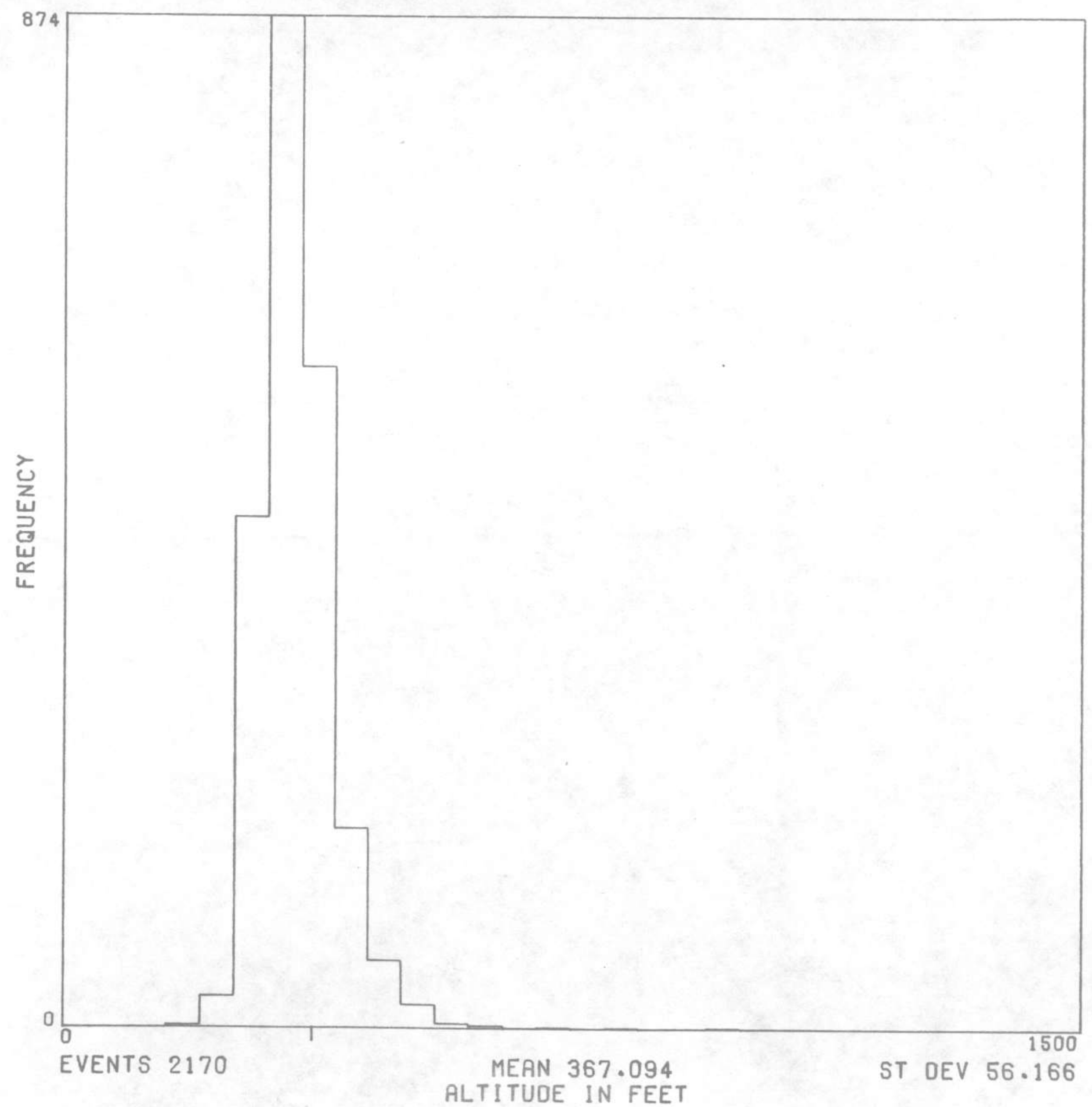
EVENTS 2370
MEAN 97.121
SPEED IN MPH
ST DEV 5.123



874
FREQUENCY
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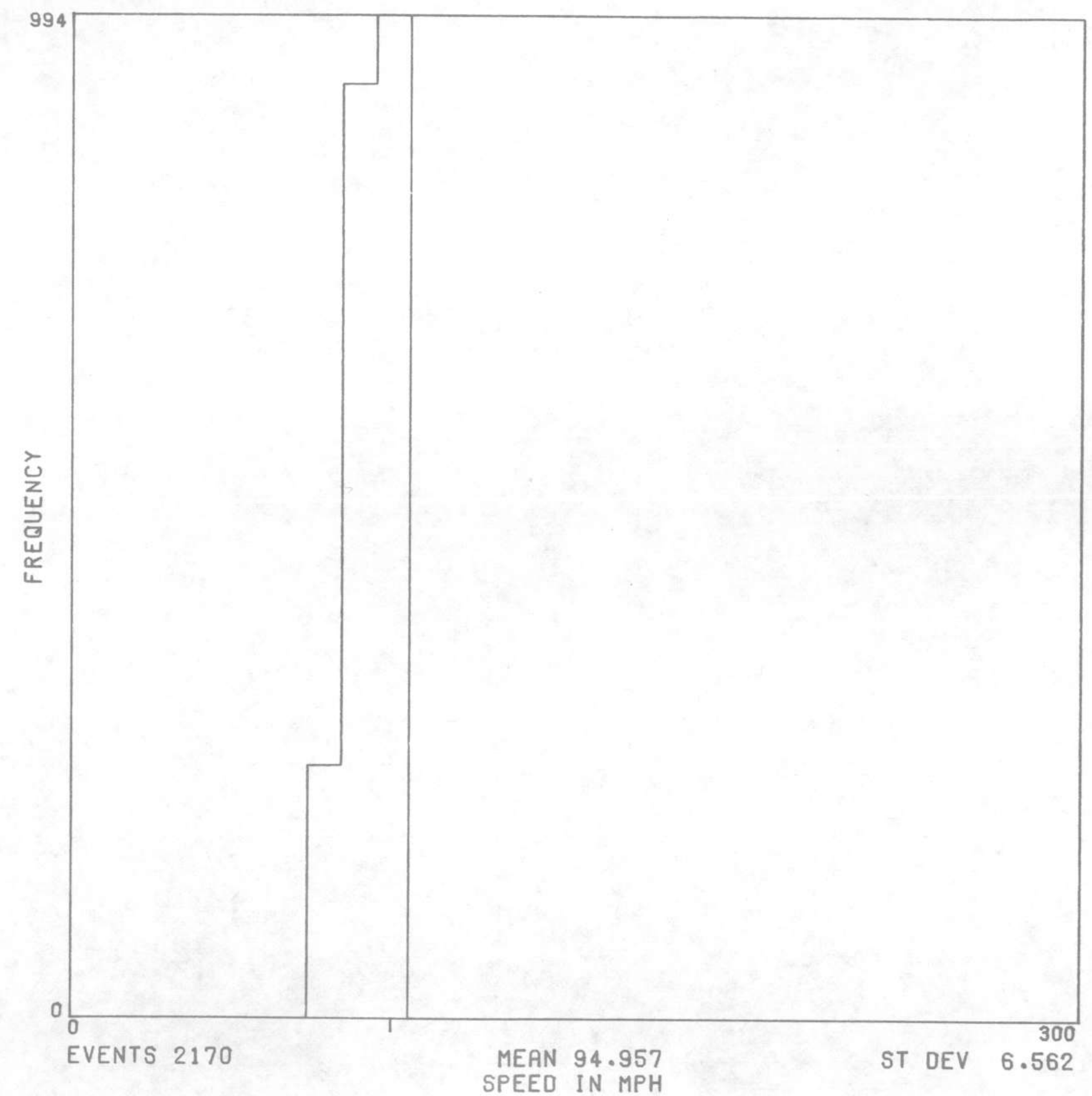
1500
EVENTS 2170
MEAN 367.094
ST DEV 56.166
ALTITUDE IN FEET



994
FREQUENCY
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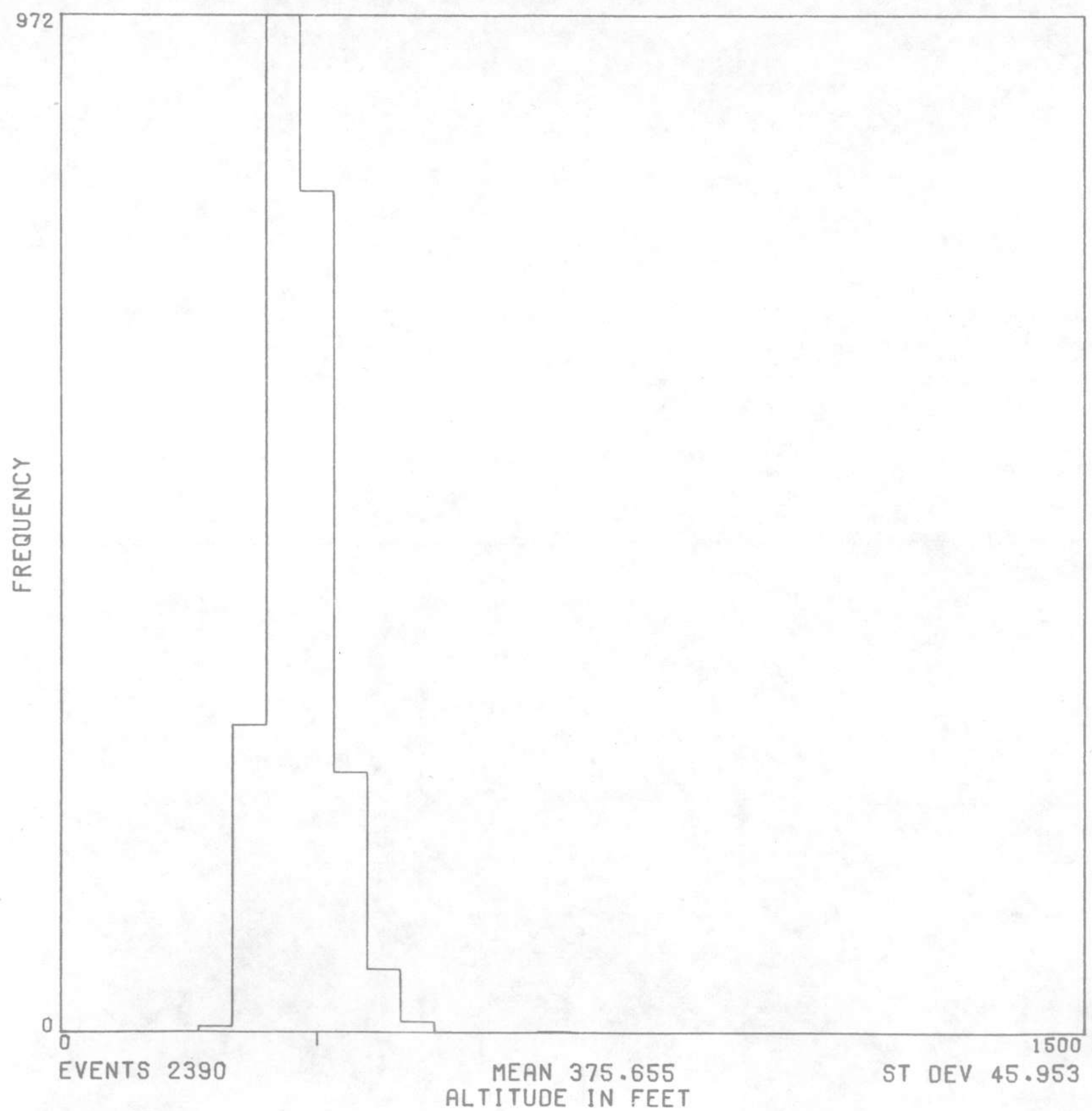
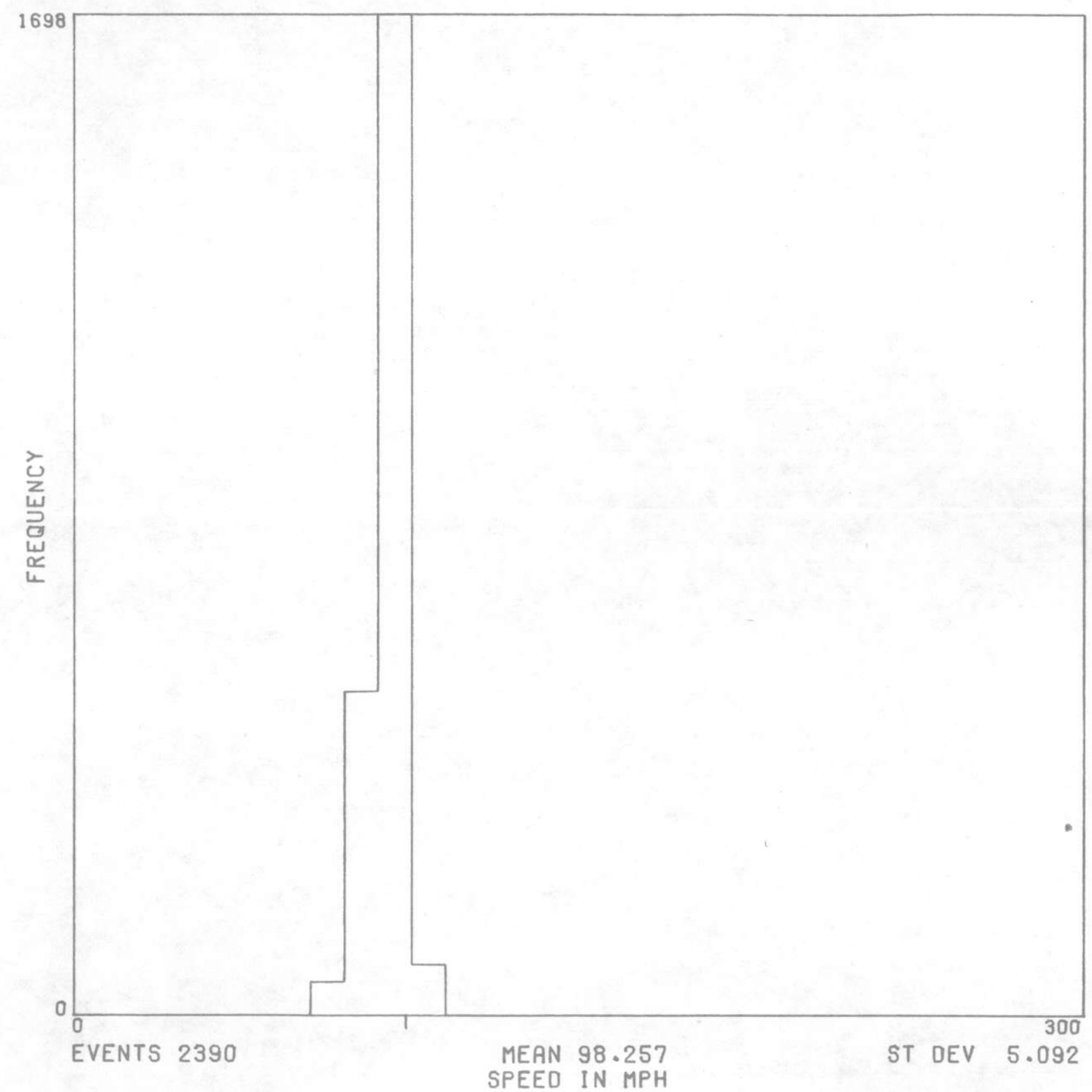
0
300
EVENTS 2170
MEAN 94.957
ST DEV 6.562
SPEED IN MPH


972
FREQUENCY
0
0
1500
EVENTS 2390
MEAN 375.655
ST DEV 45.953
ALTITUDE IN FEET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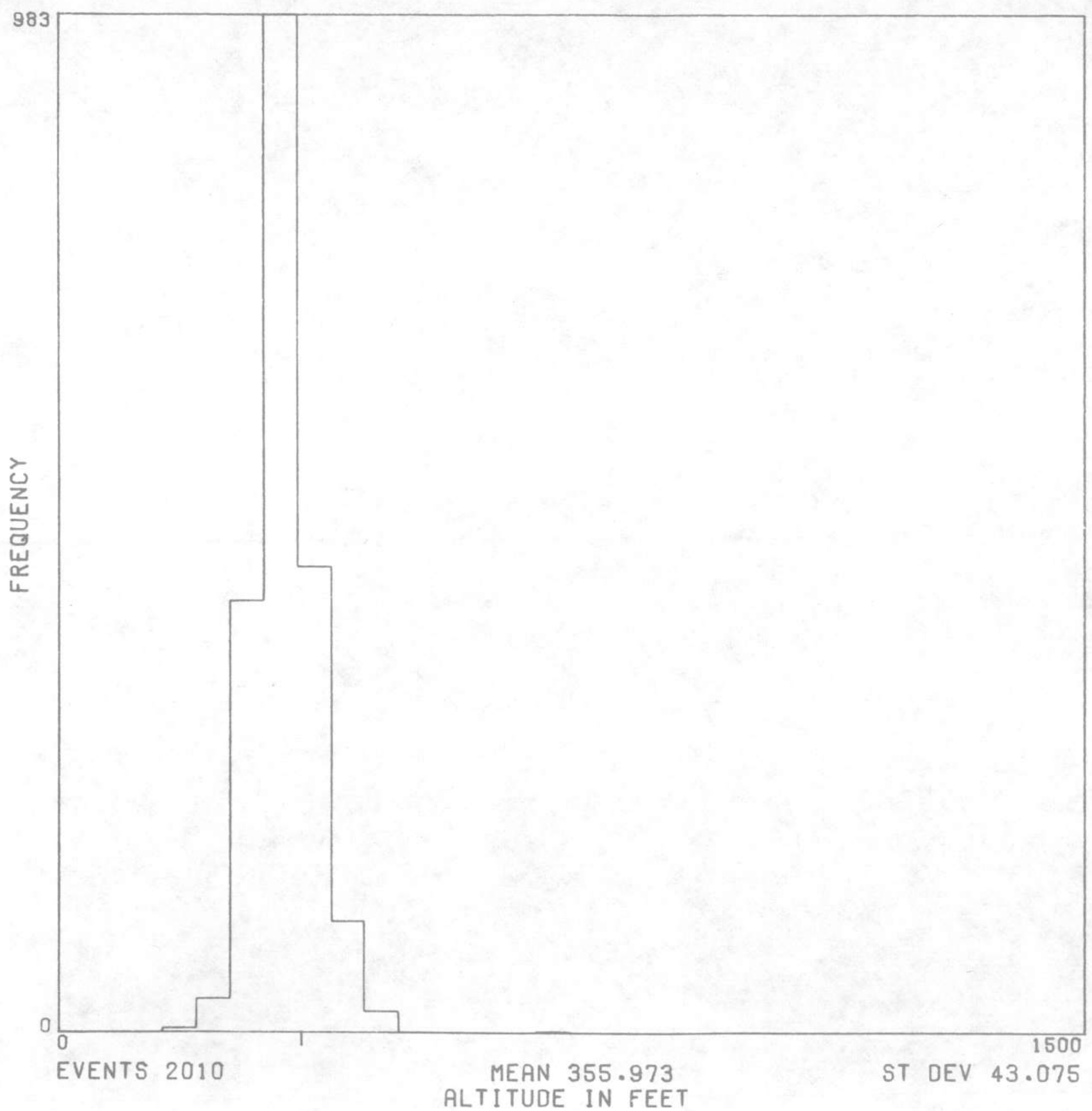
EVENTS 2390
MEAN 98.257
ST DEV 5.092
SPEED IN MPH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EVENTS 2010
MEAN 355.973
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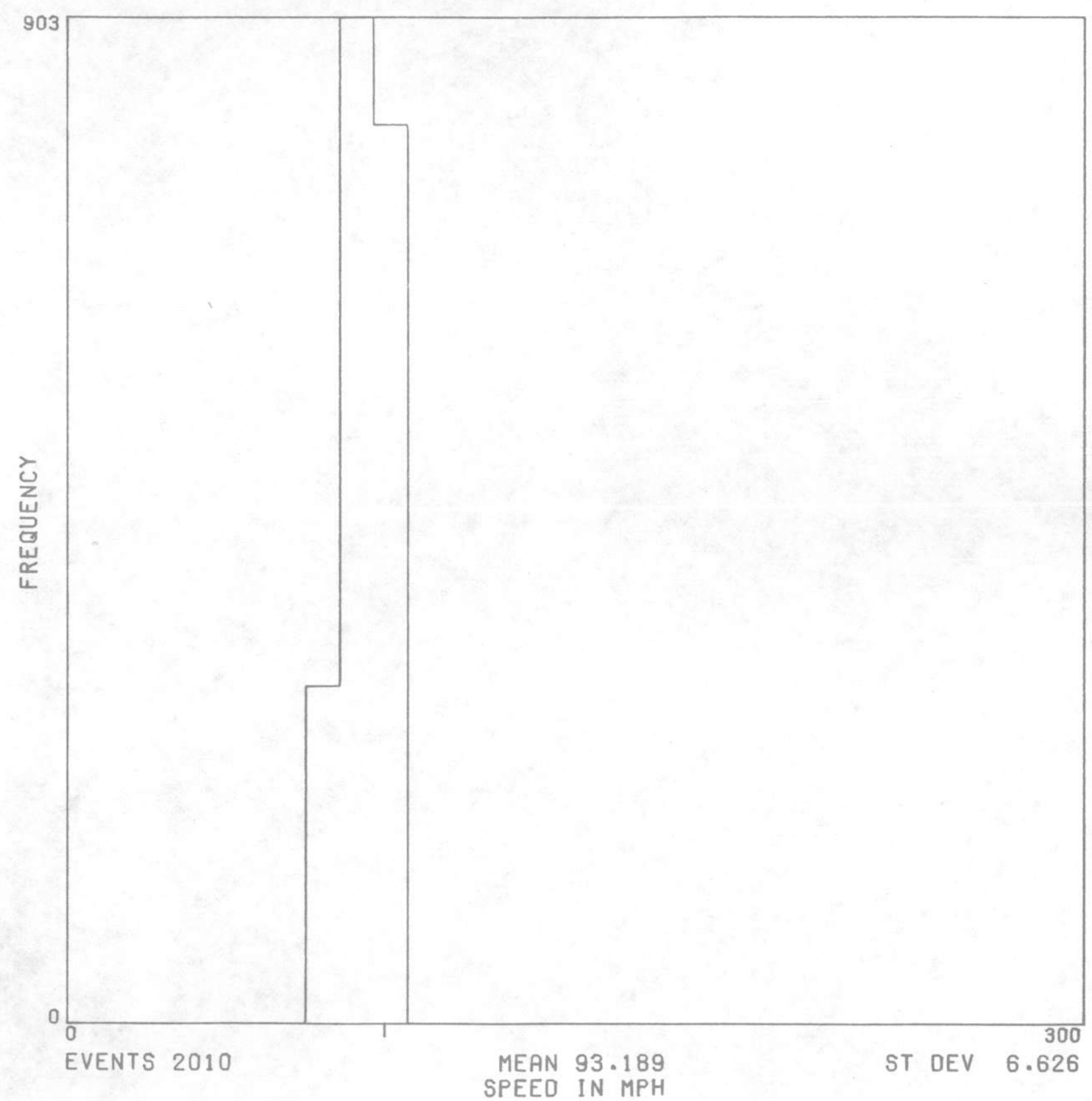
ST DEV 43.075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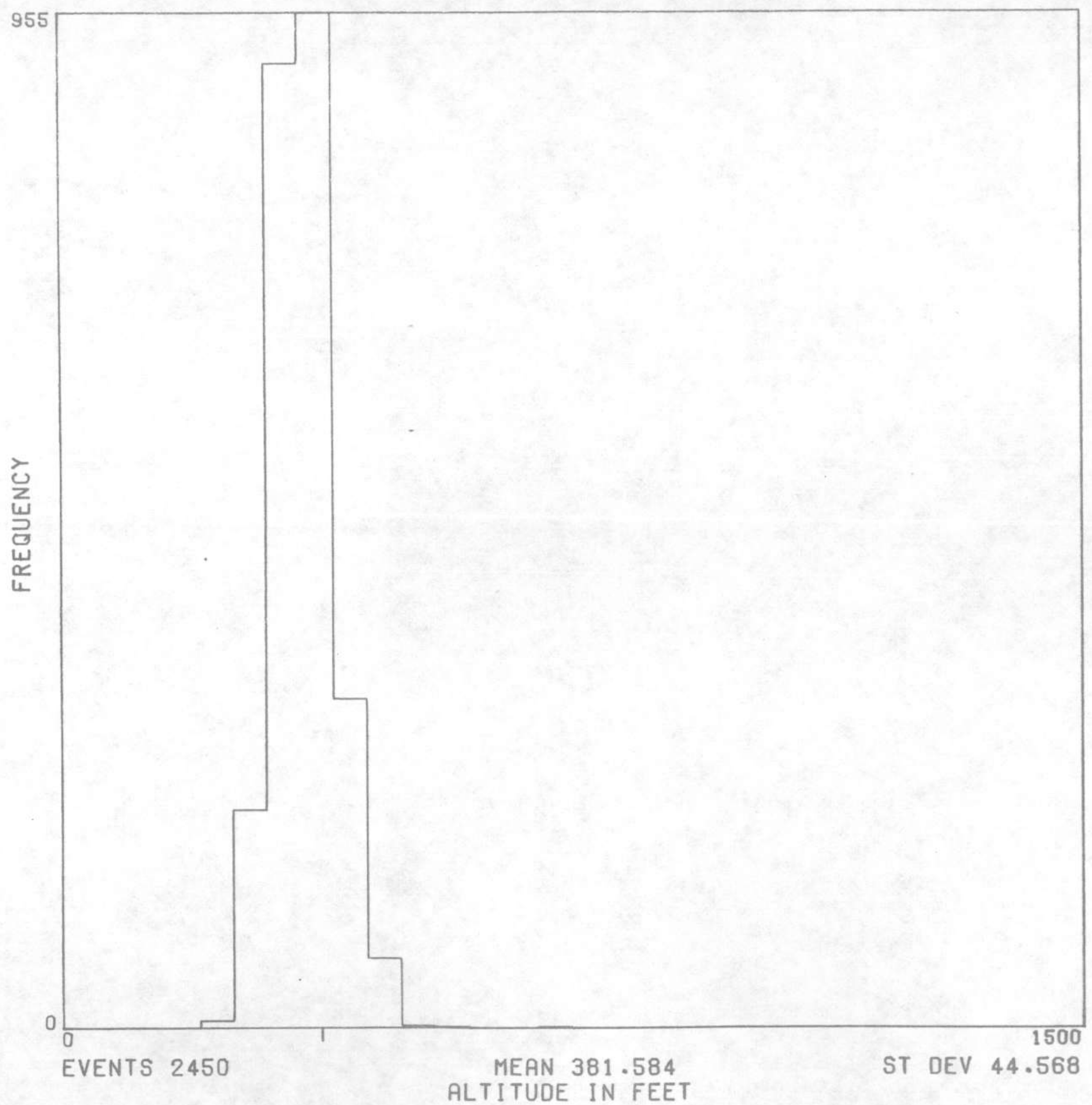
MEAN 93.189
SPEED IN MPH
ST DEV 6.626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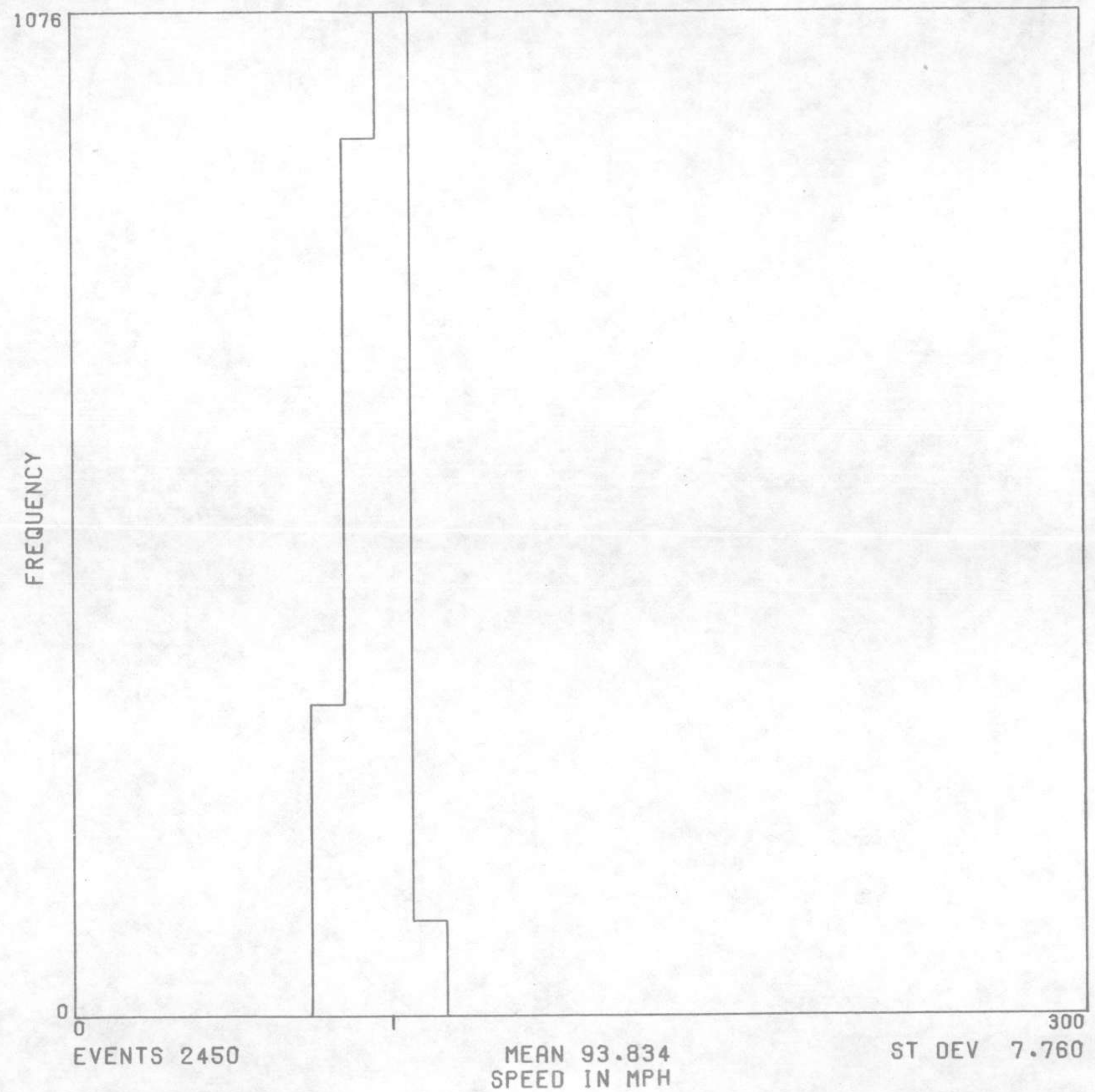
ST DEV 44.568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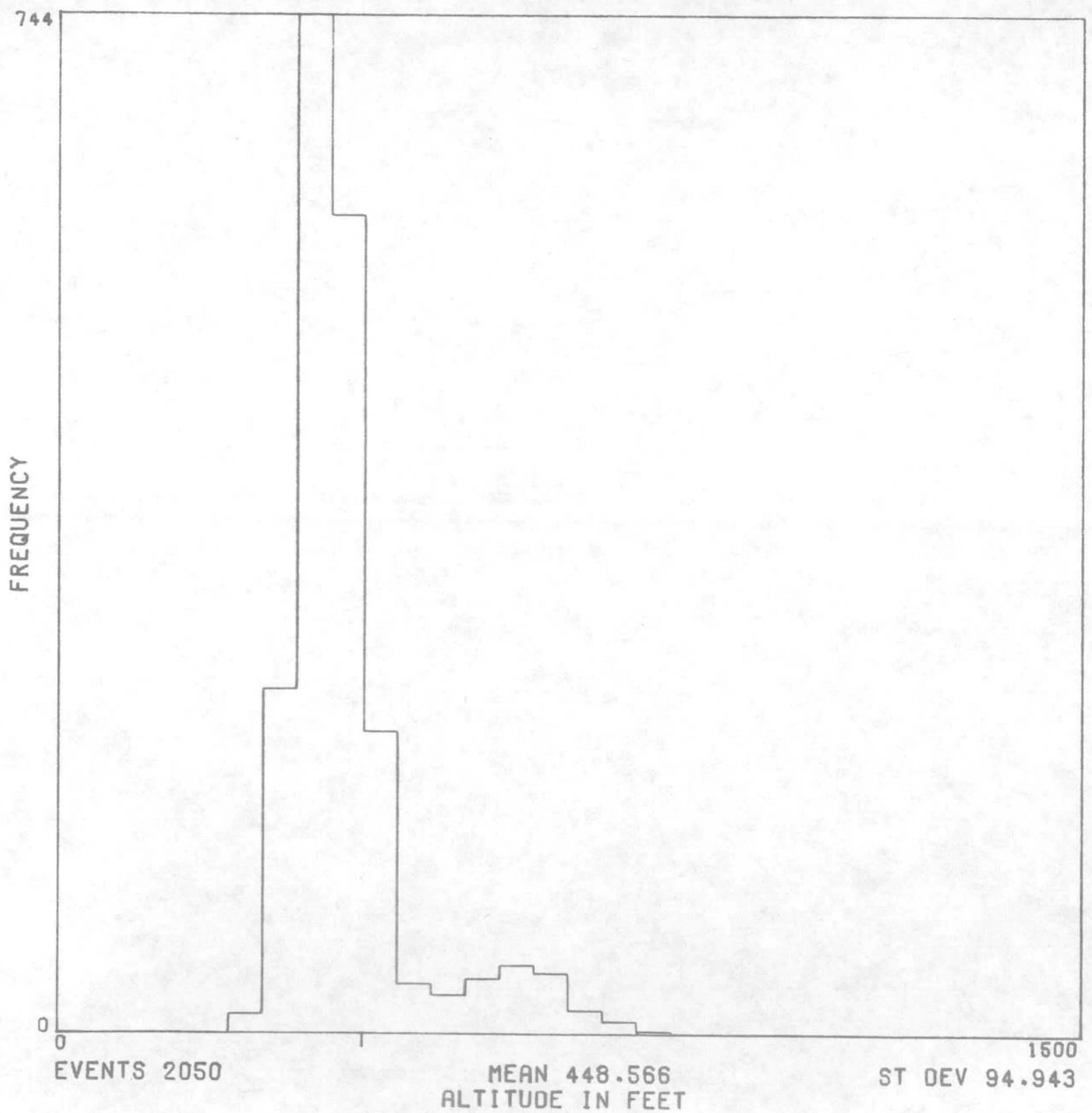
MEAN 93.834
SPEED IN MPH
ST DEV 7.760

8W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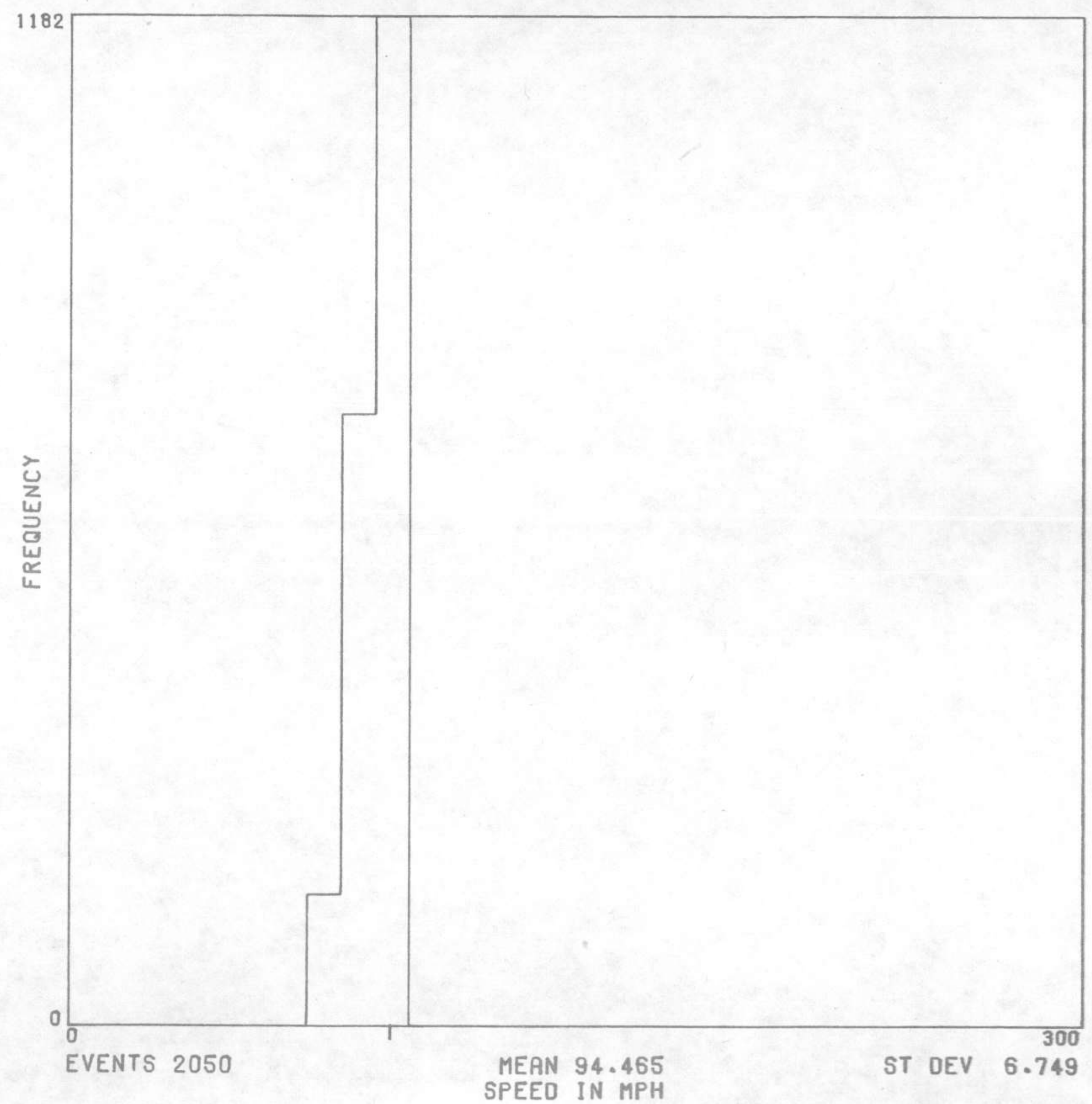
ST DEV 94.943
ALTITUDE IN FEET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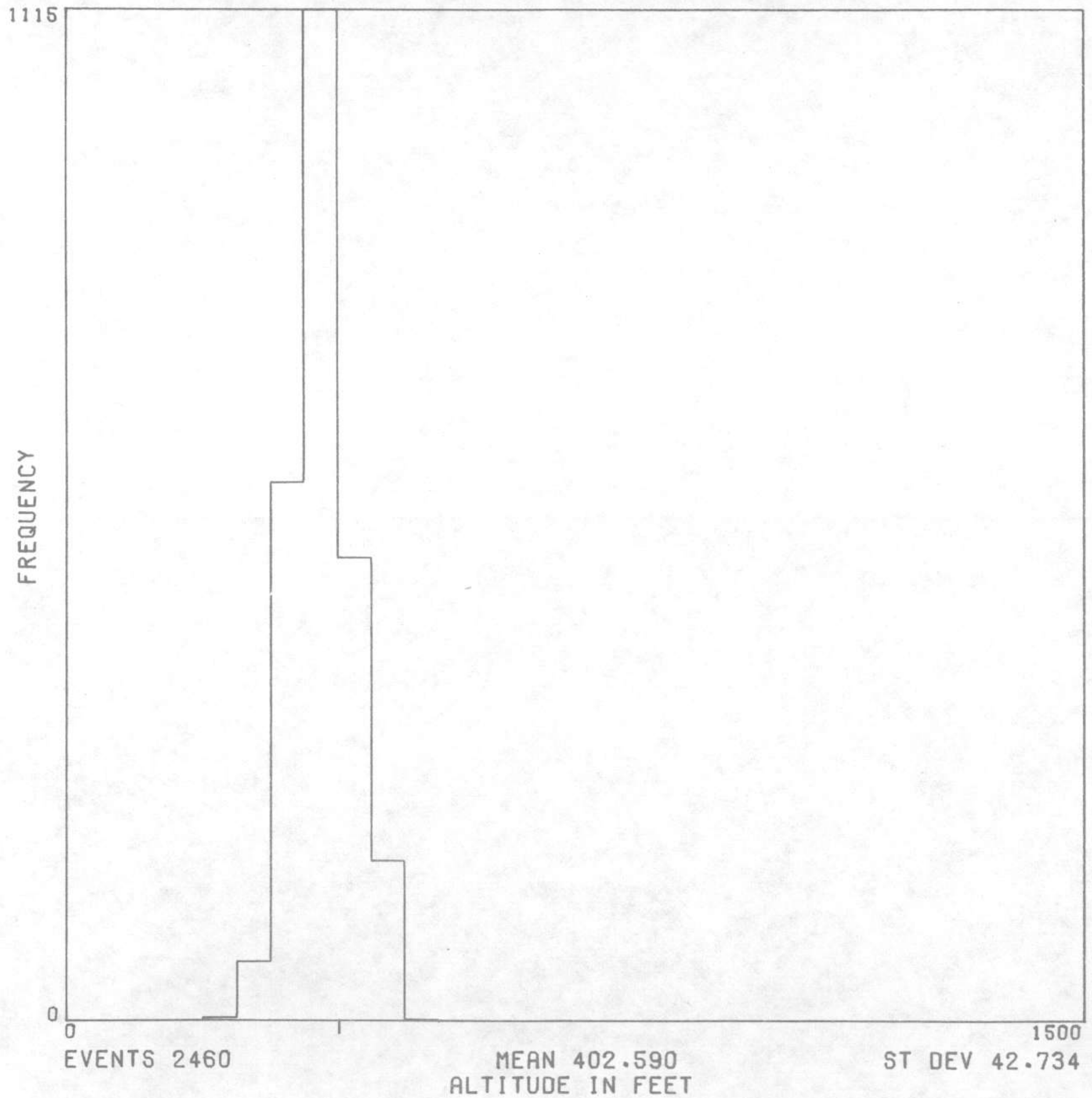
SPEED IN MPH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MEAN 402.590
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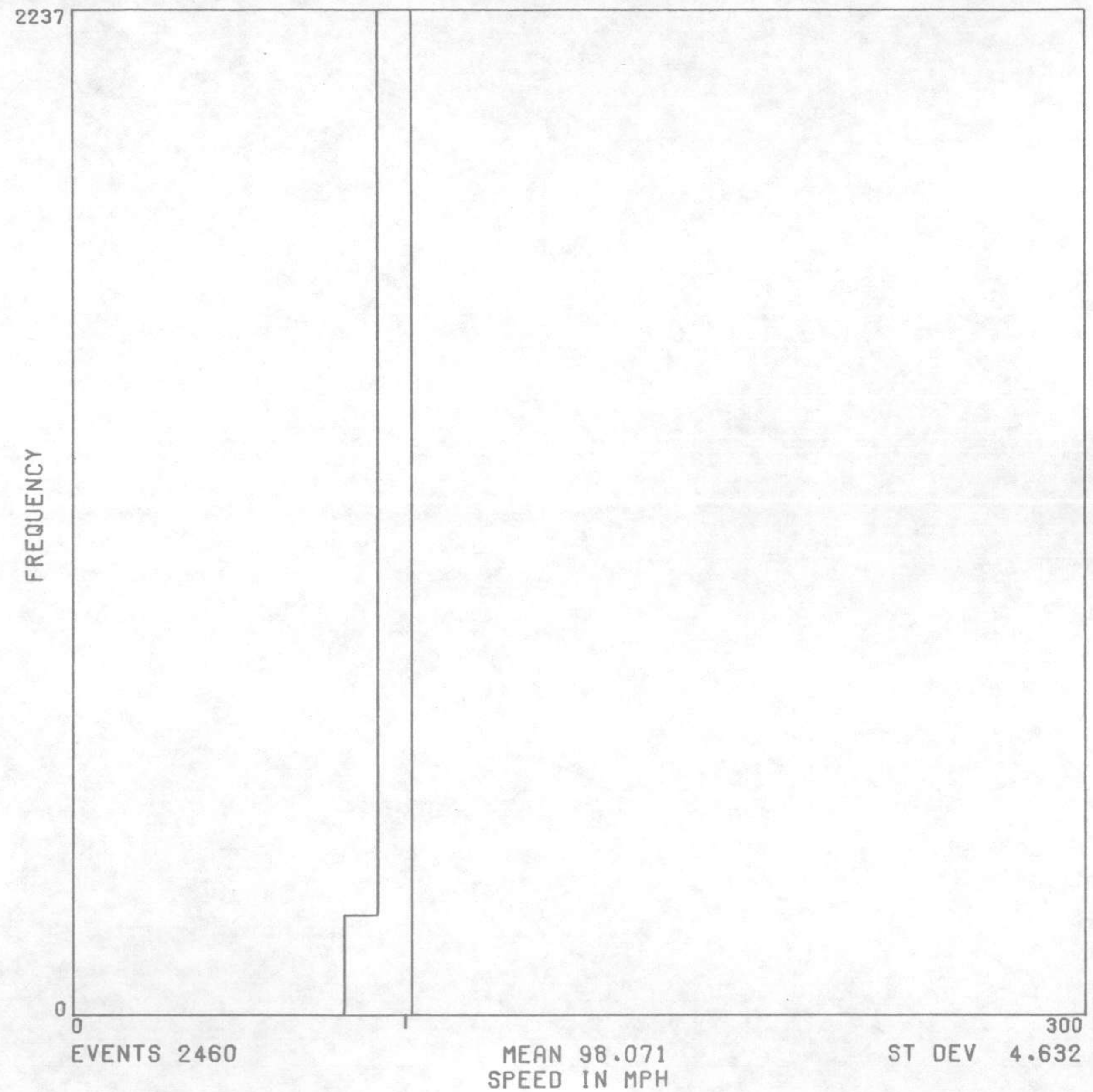
ST DEV 42.734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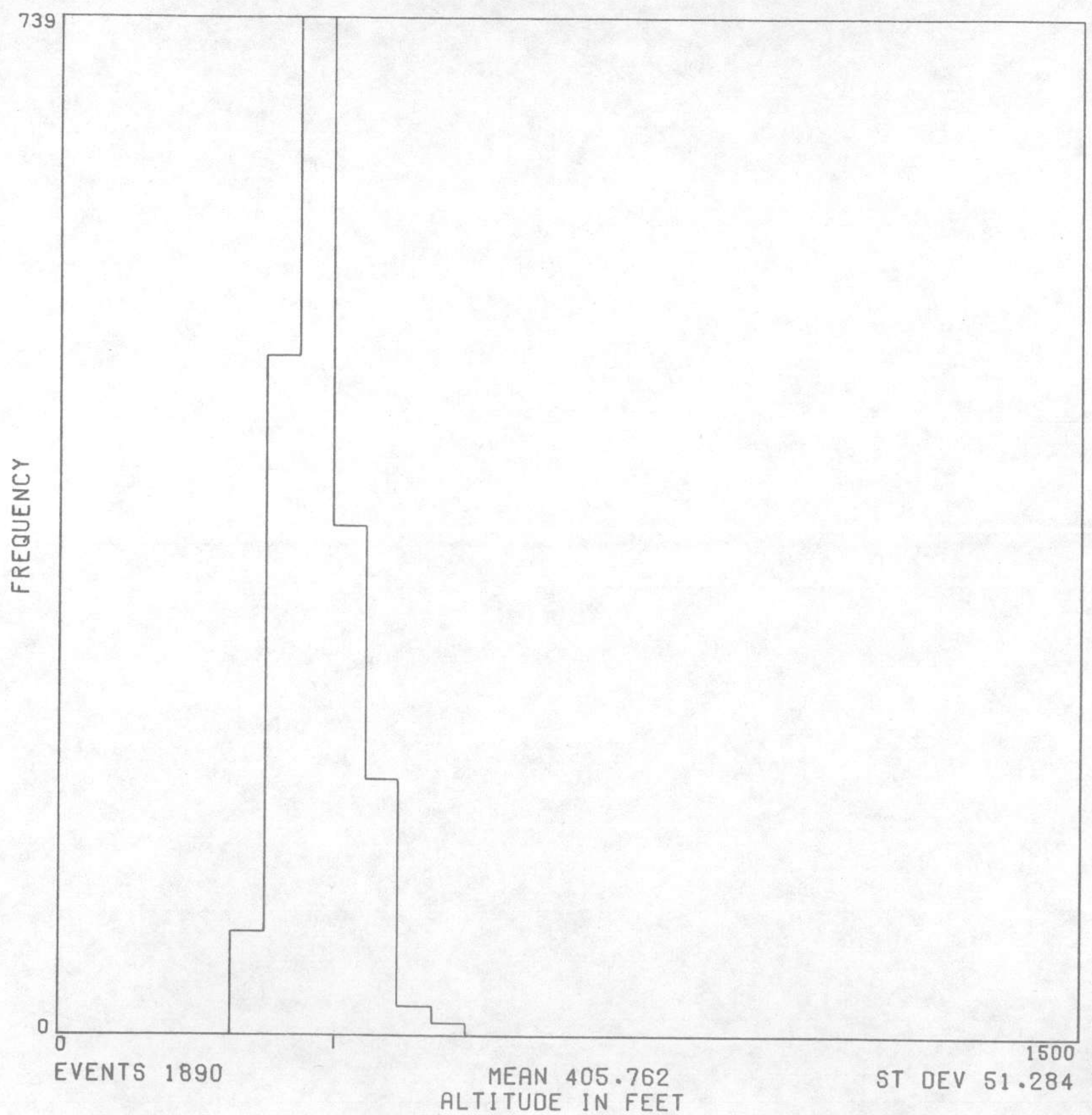
ST DEV 4.632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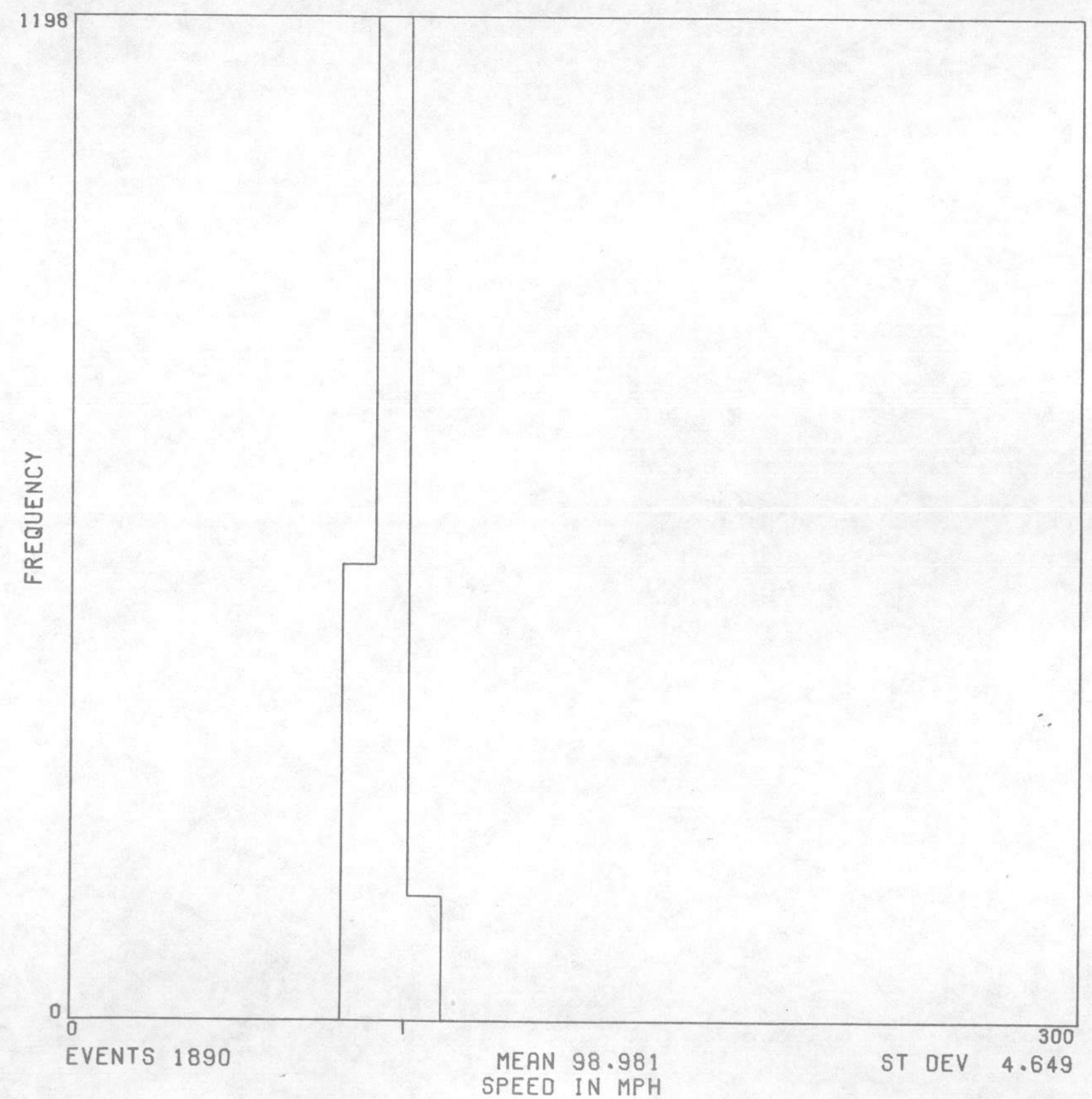
ST DEV 51.284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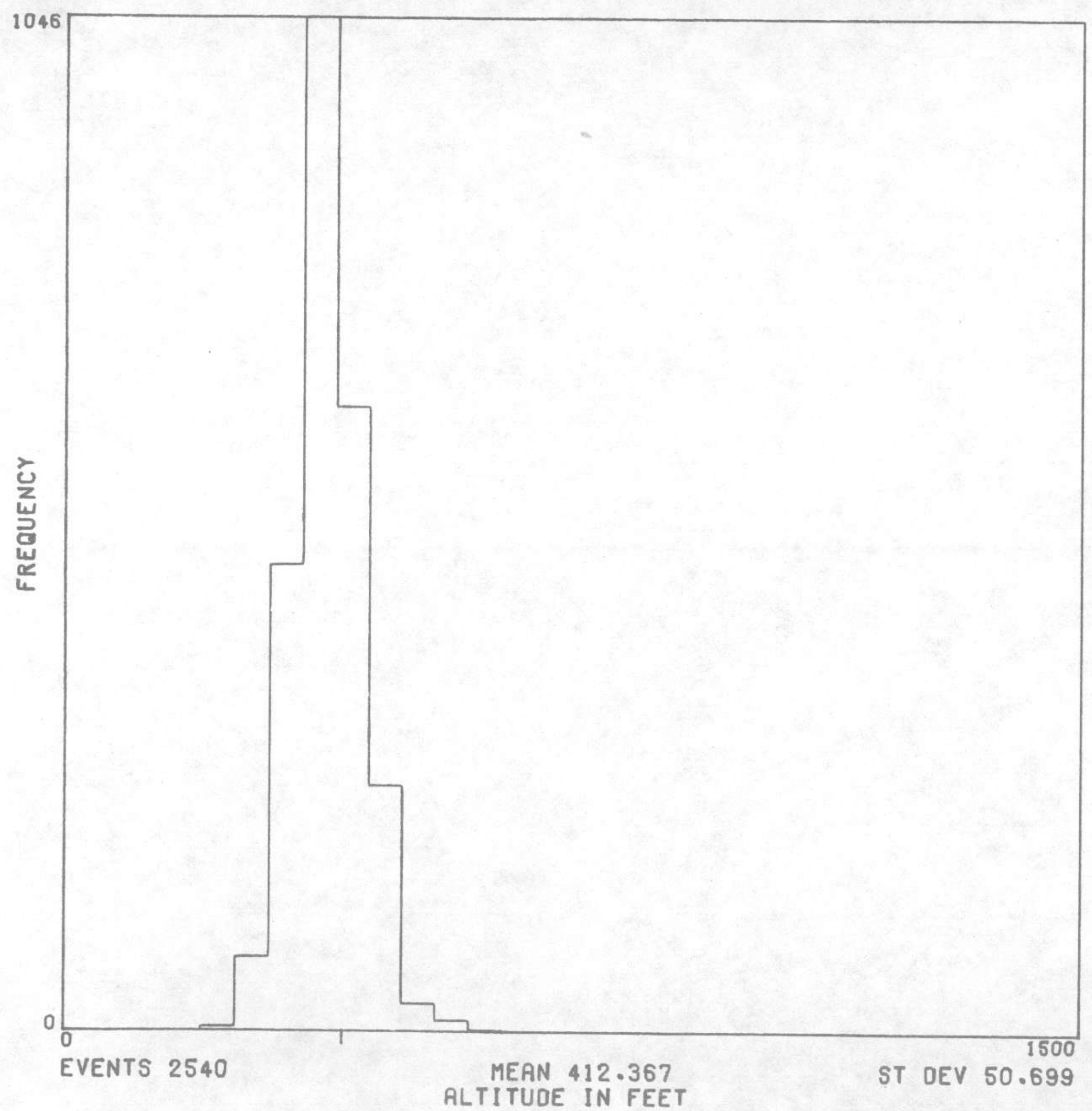
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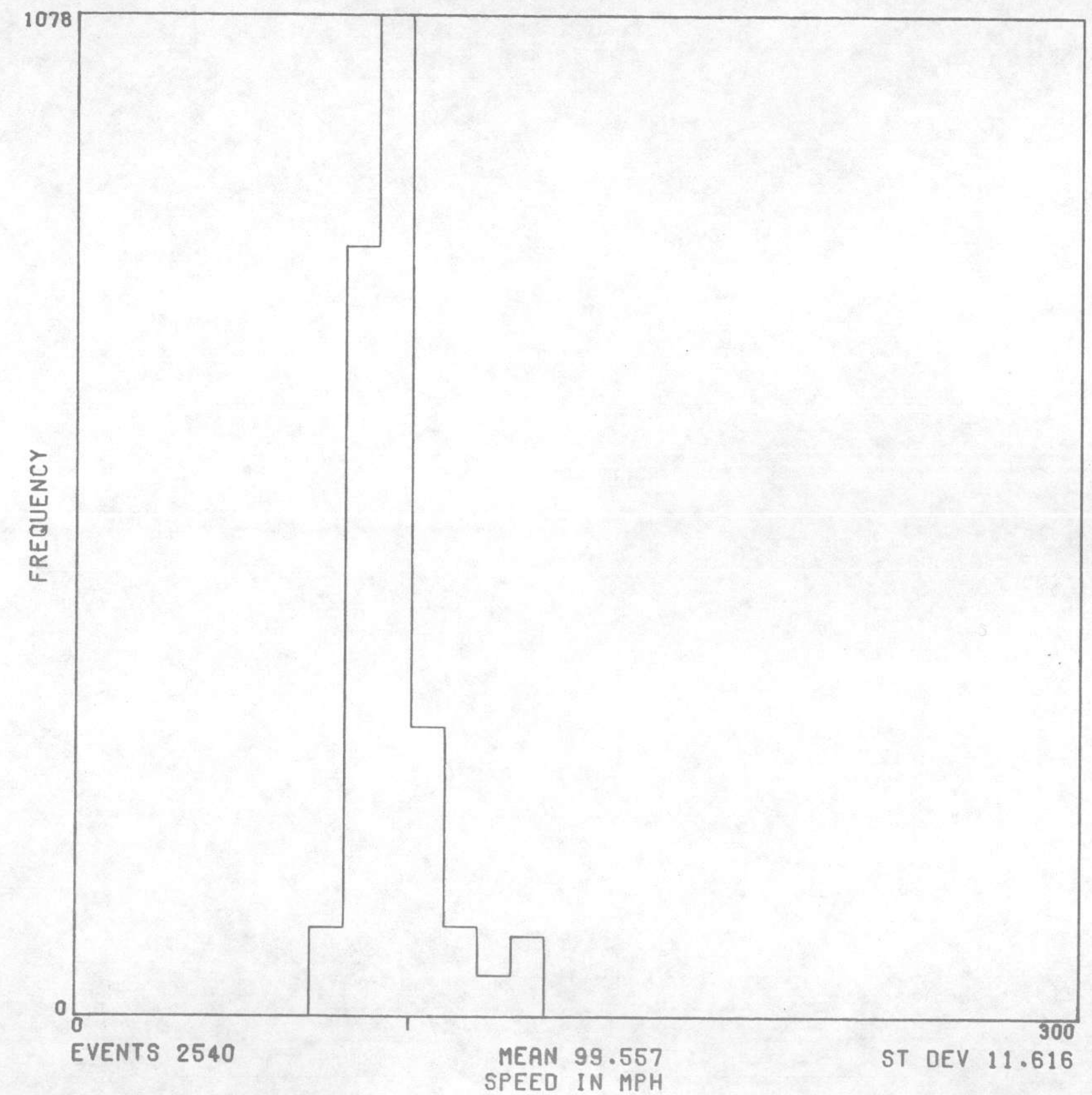
ST DEV 50.699
ALTITUDE IN FEET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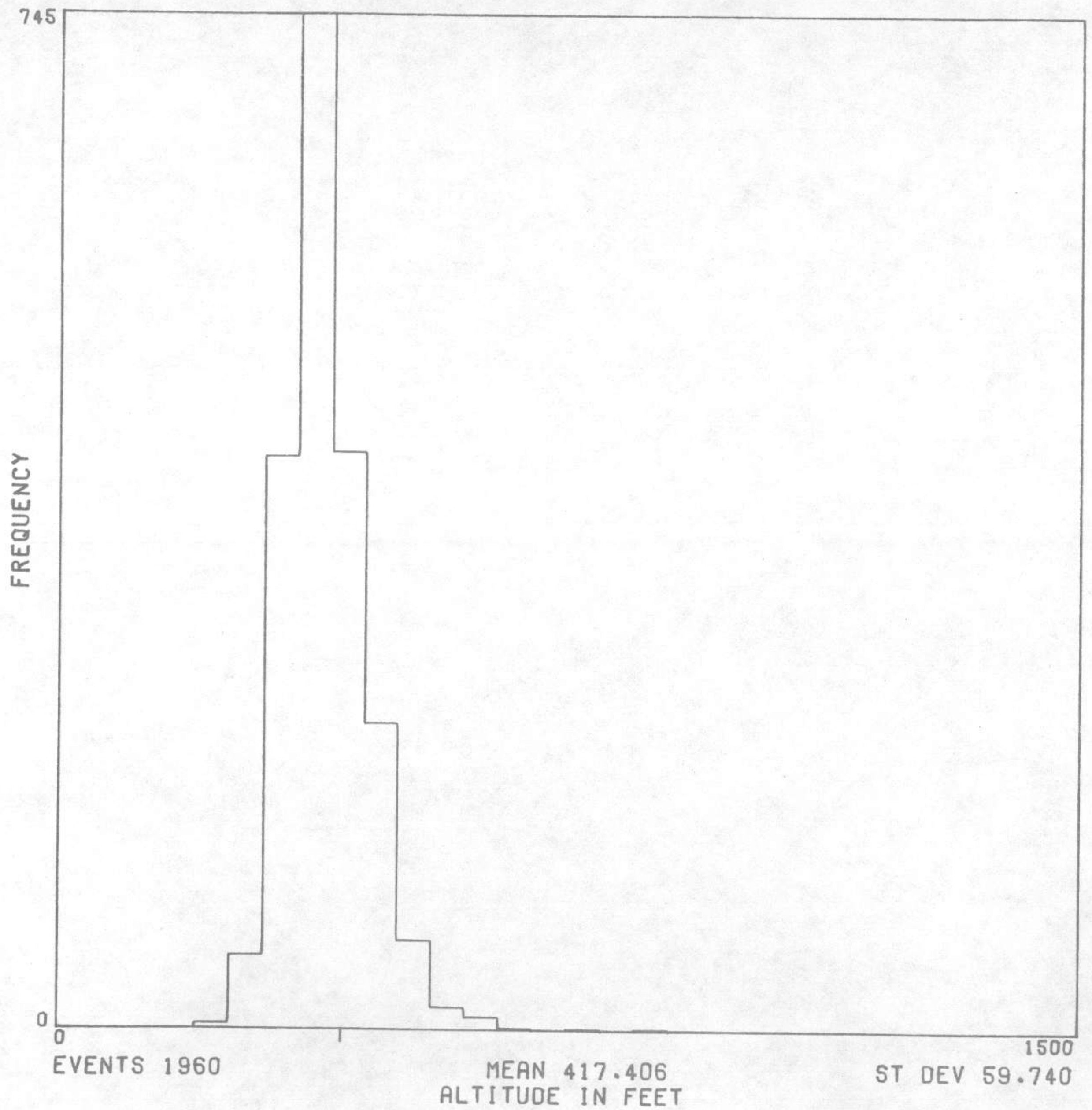
MEAN 99.557
ST DEV 11.616
SPEED IN MPH

10W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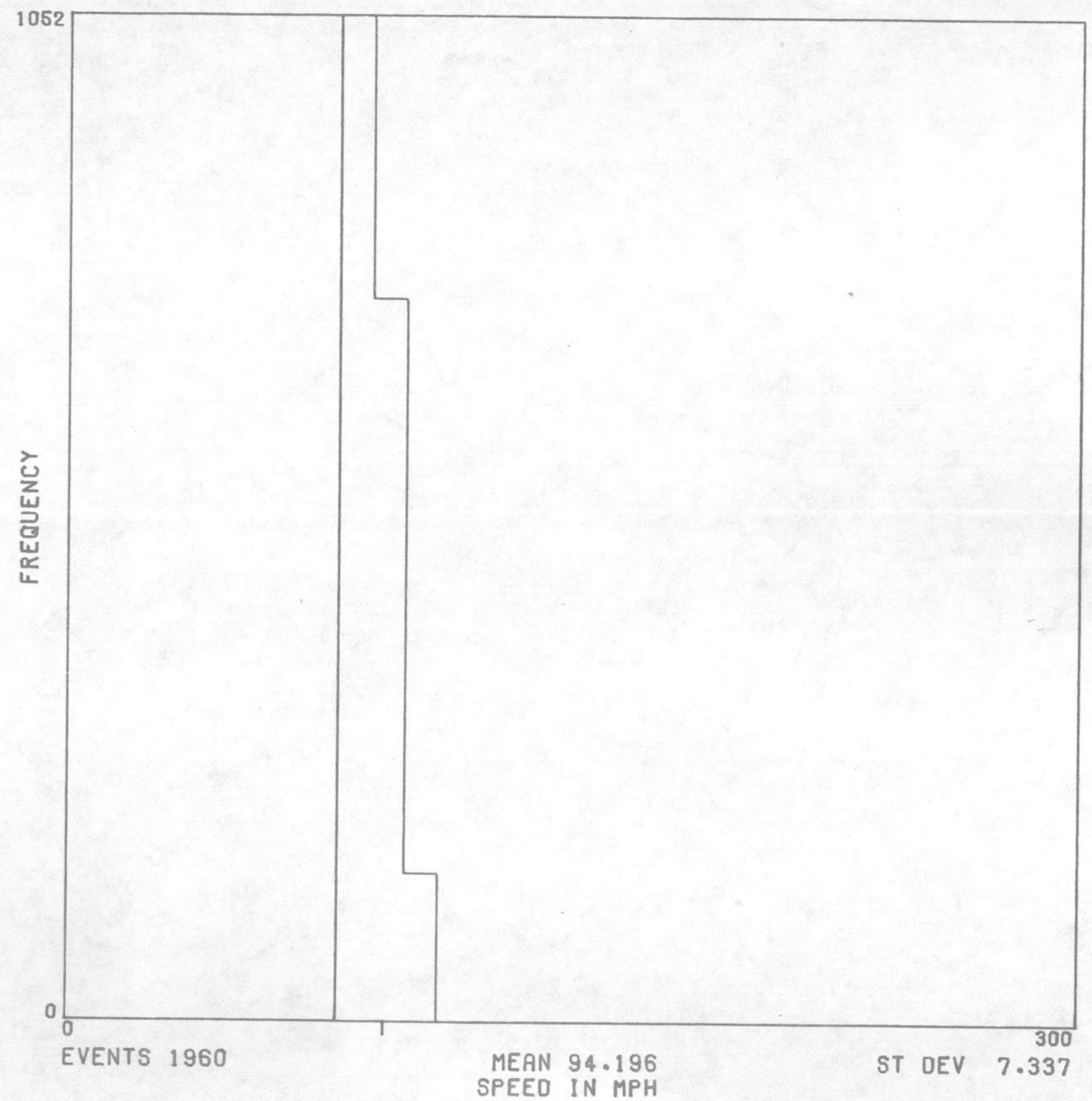
ST DEV 59.740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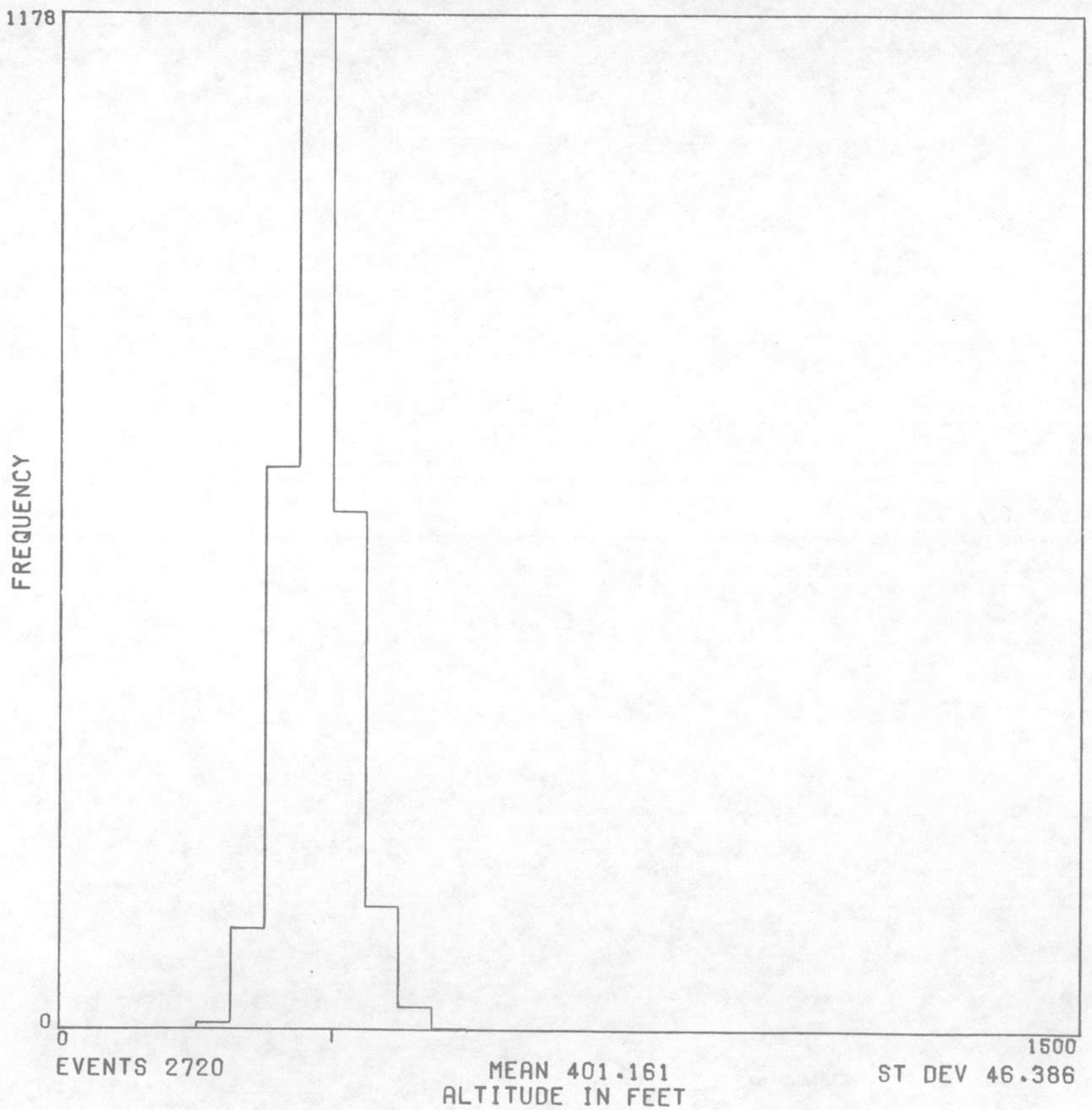
EVENTS 1960
MEAN 94.196
SPEED IN MPH
ST DEV 7.337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FREQUENCY
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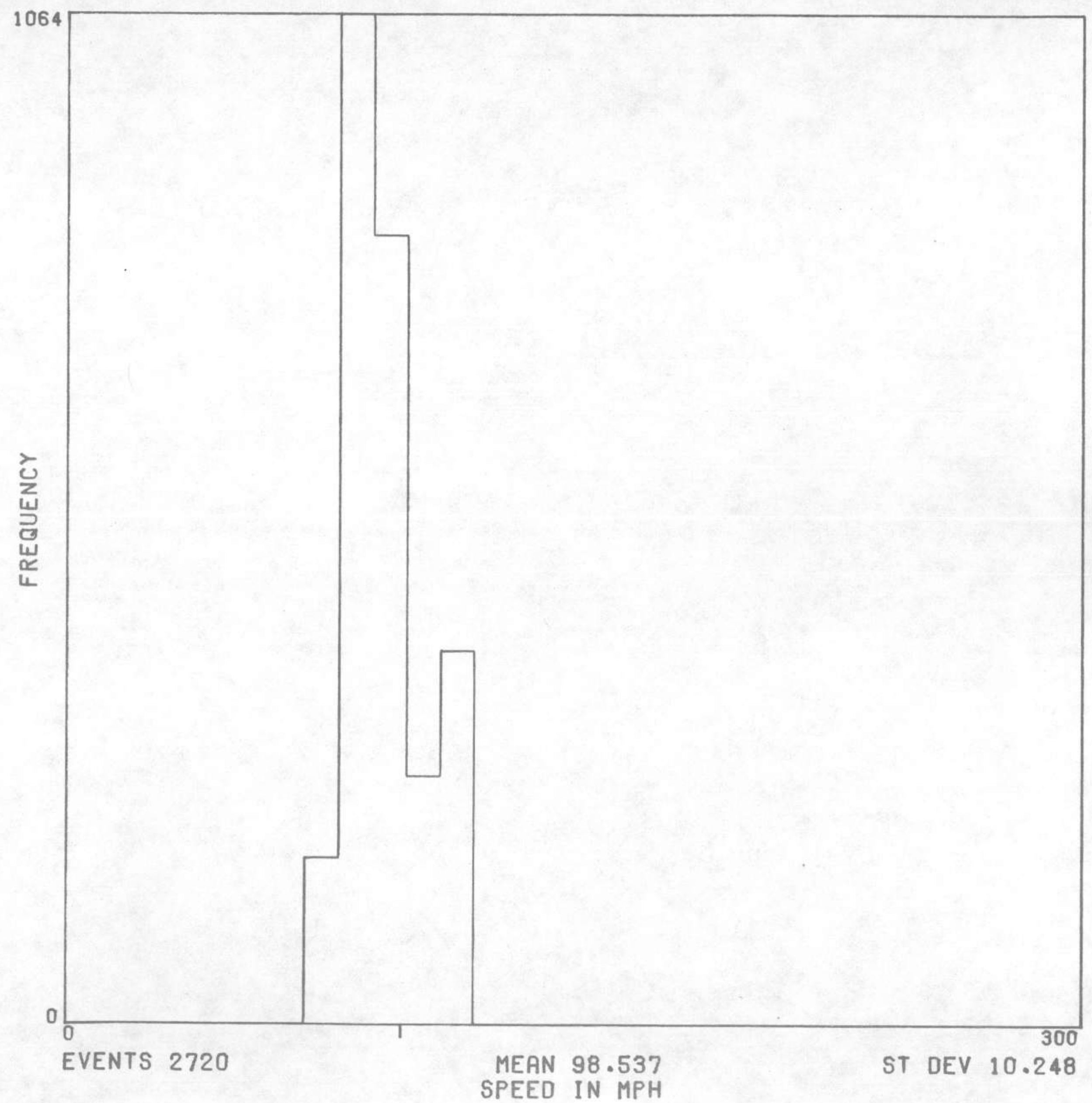
EVENTS 2720
MEAN 401.161
ALTITUDE IN FEET
ST DEV 46.386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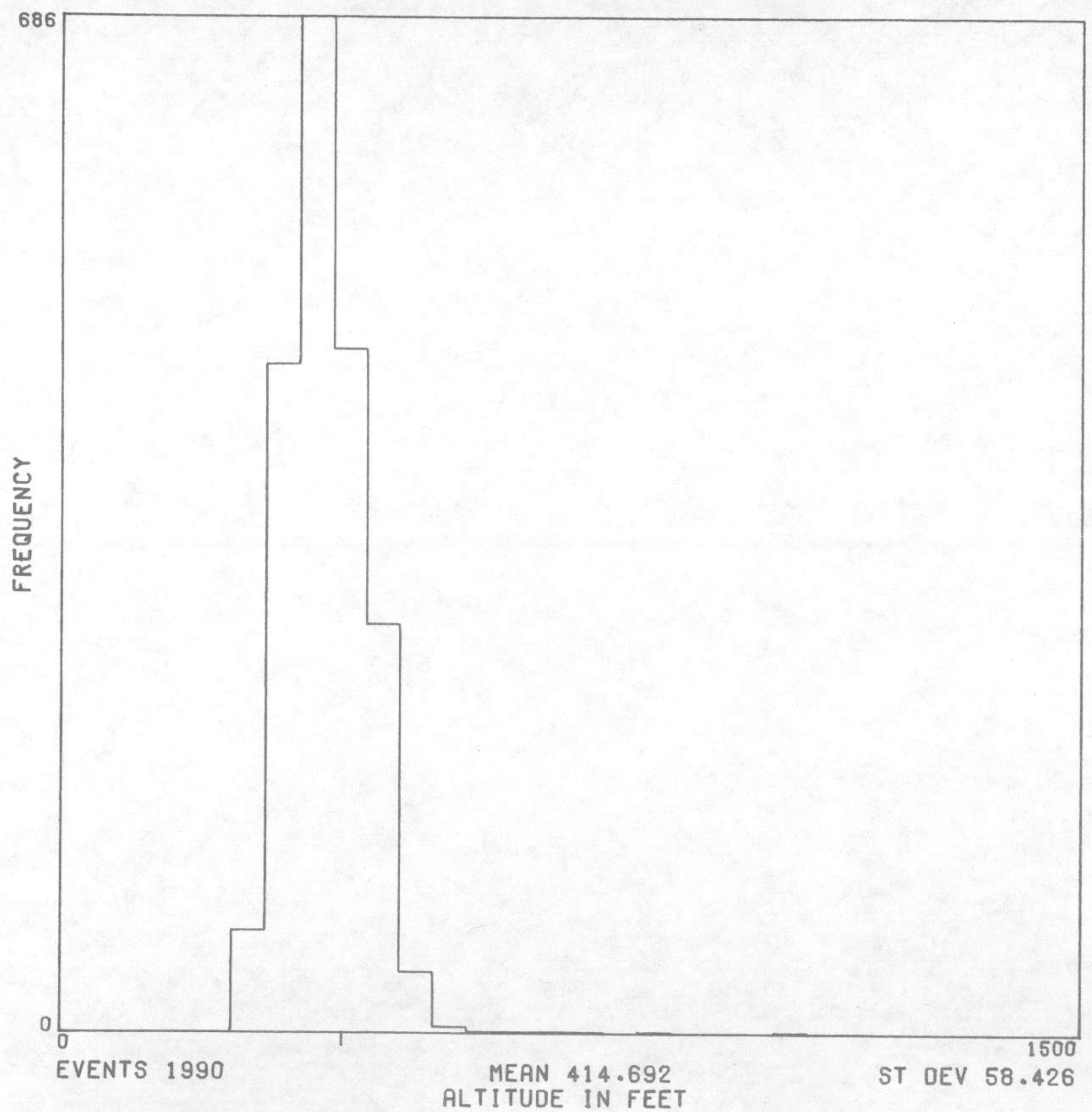
ST DEV 10.248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EVENTS 1990
MEAN 414.692
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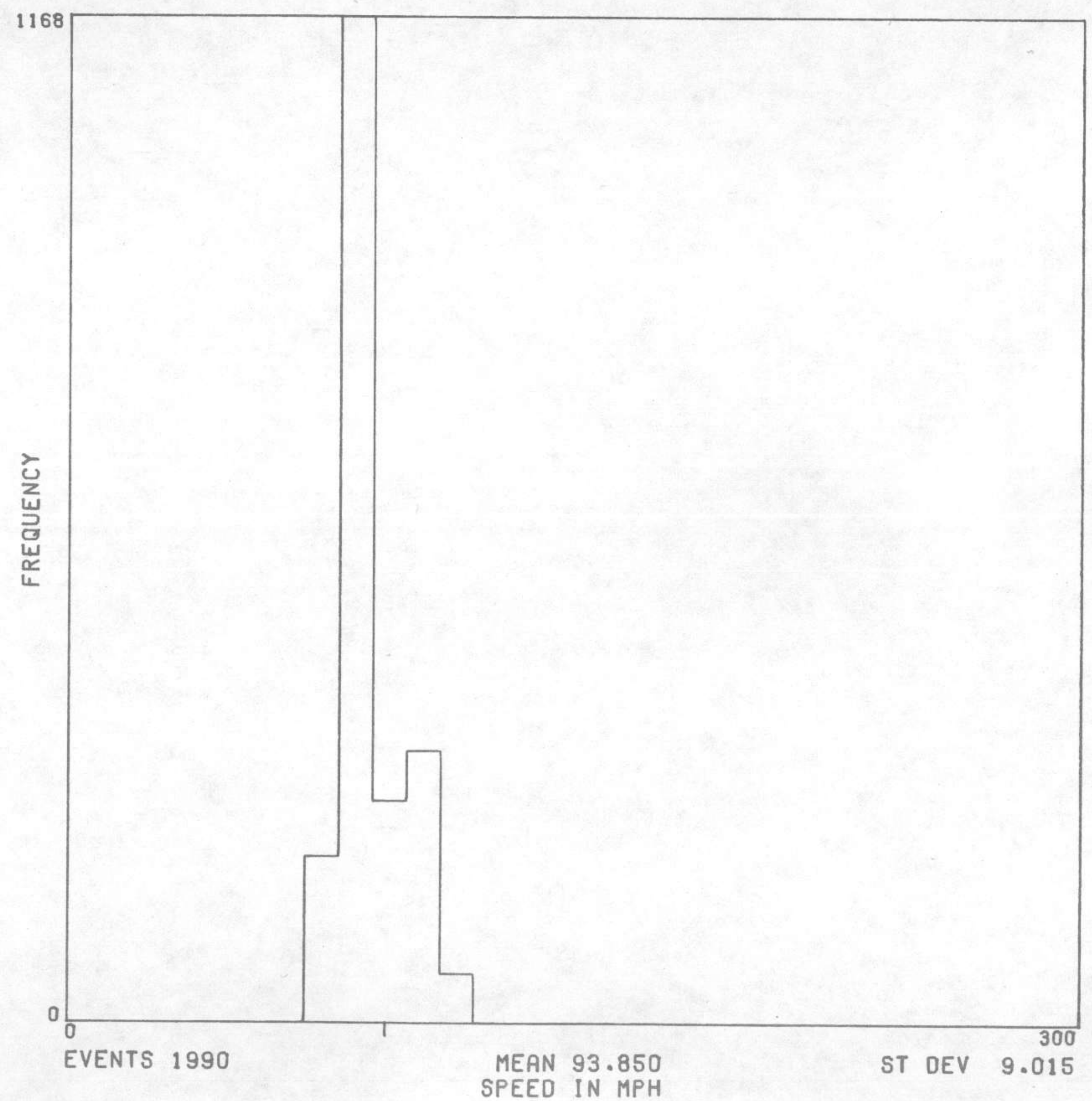
ST DEV 58.426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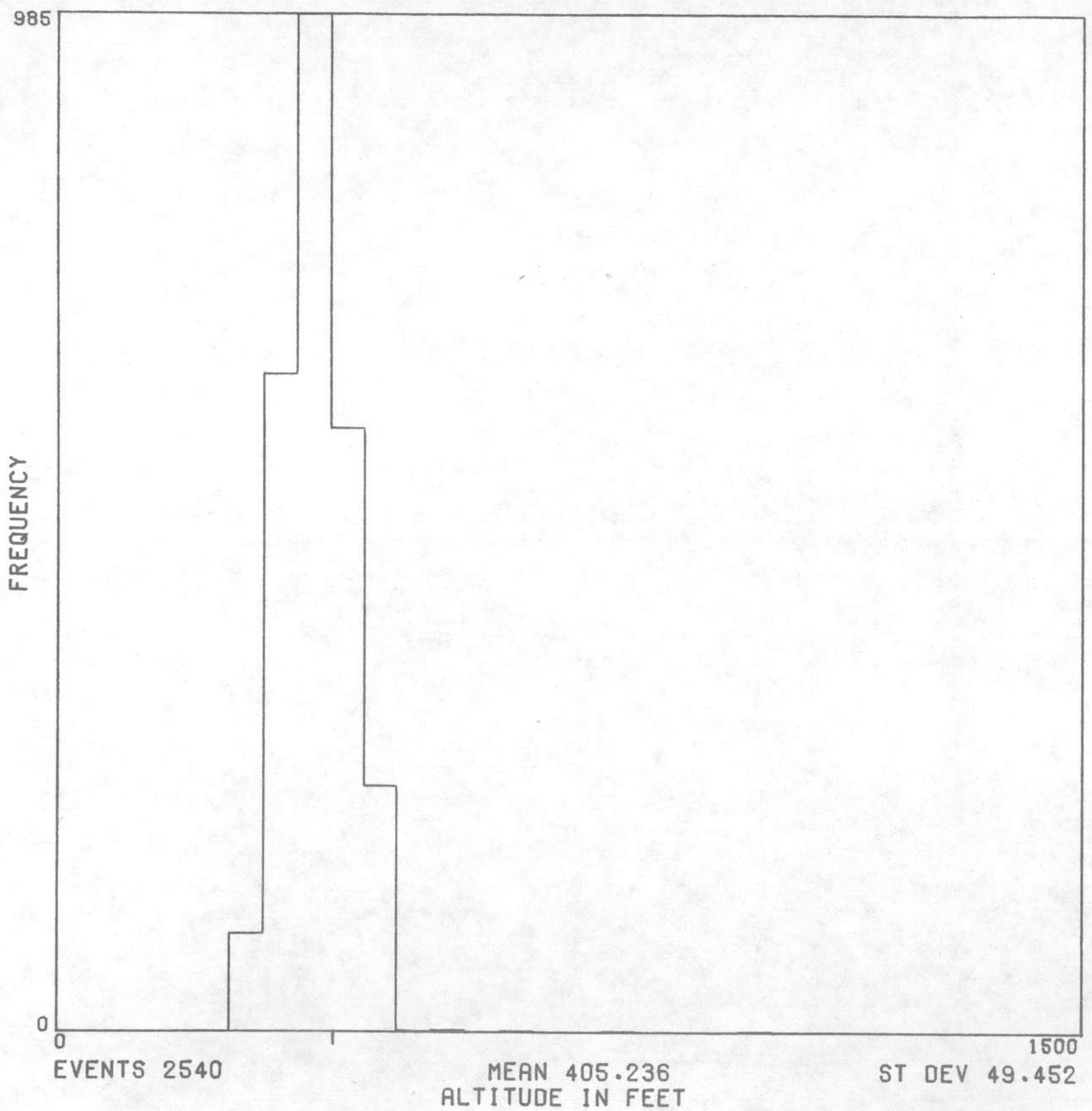
ST DEV 9.015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MEAN 405.236
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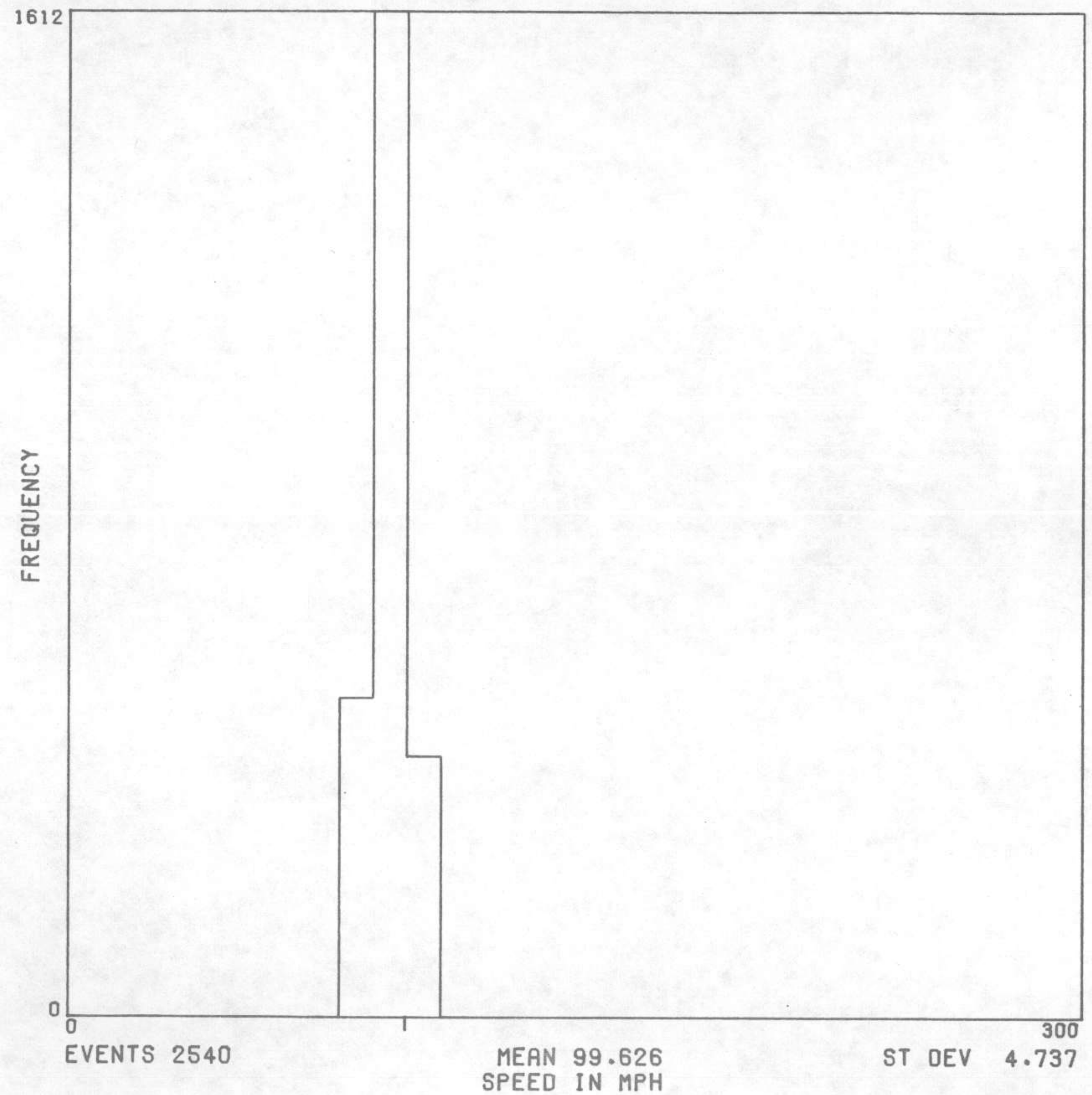
ST DEV 49.452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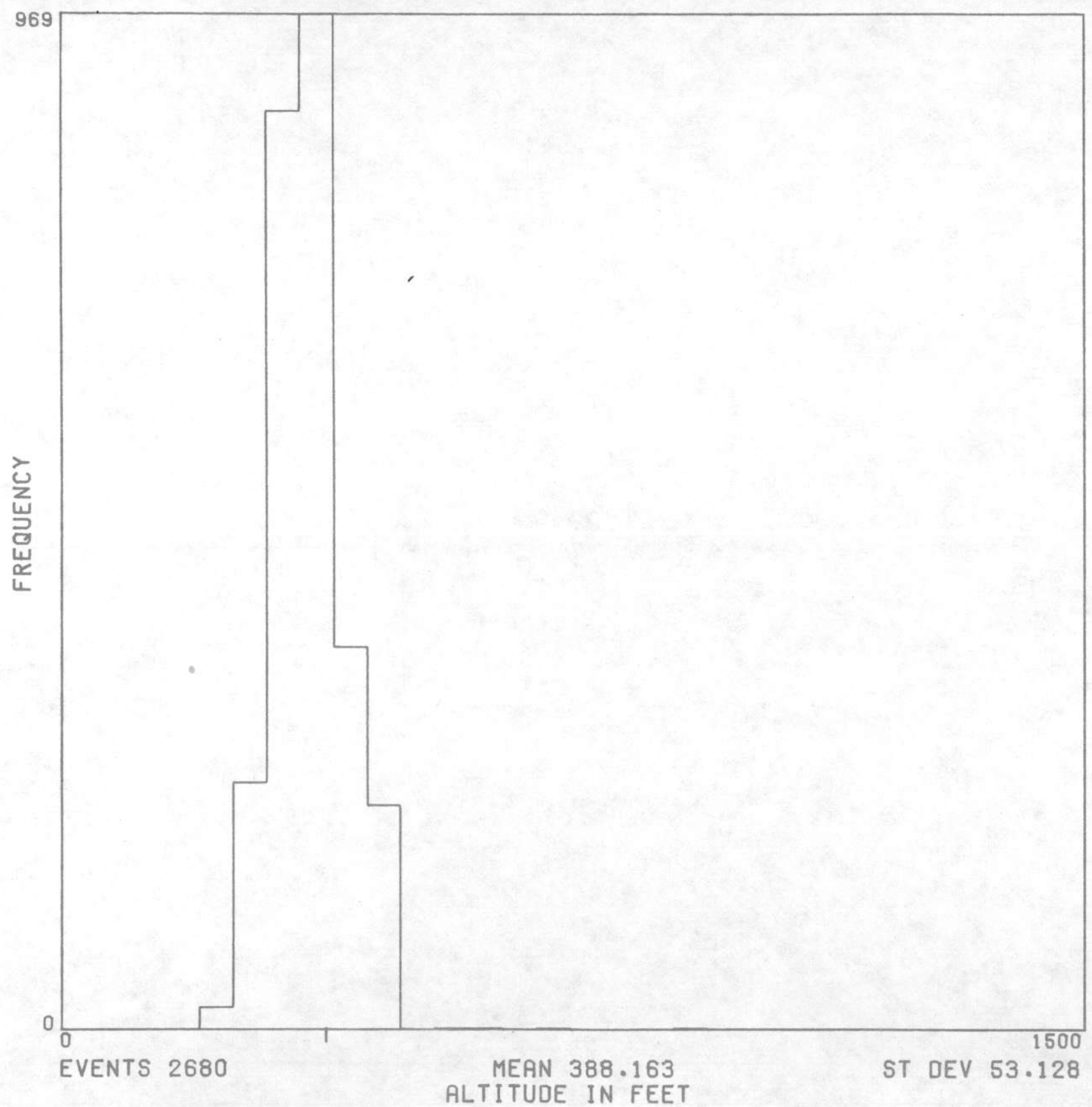
EVENTS 2540
MEAN 99.626
SPEED IN MPH
ST DEV 4.737

12W


969
FREQUENCY
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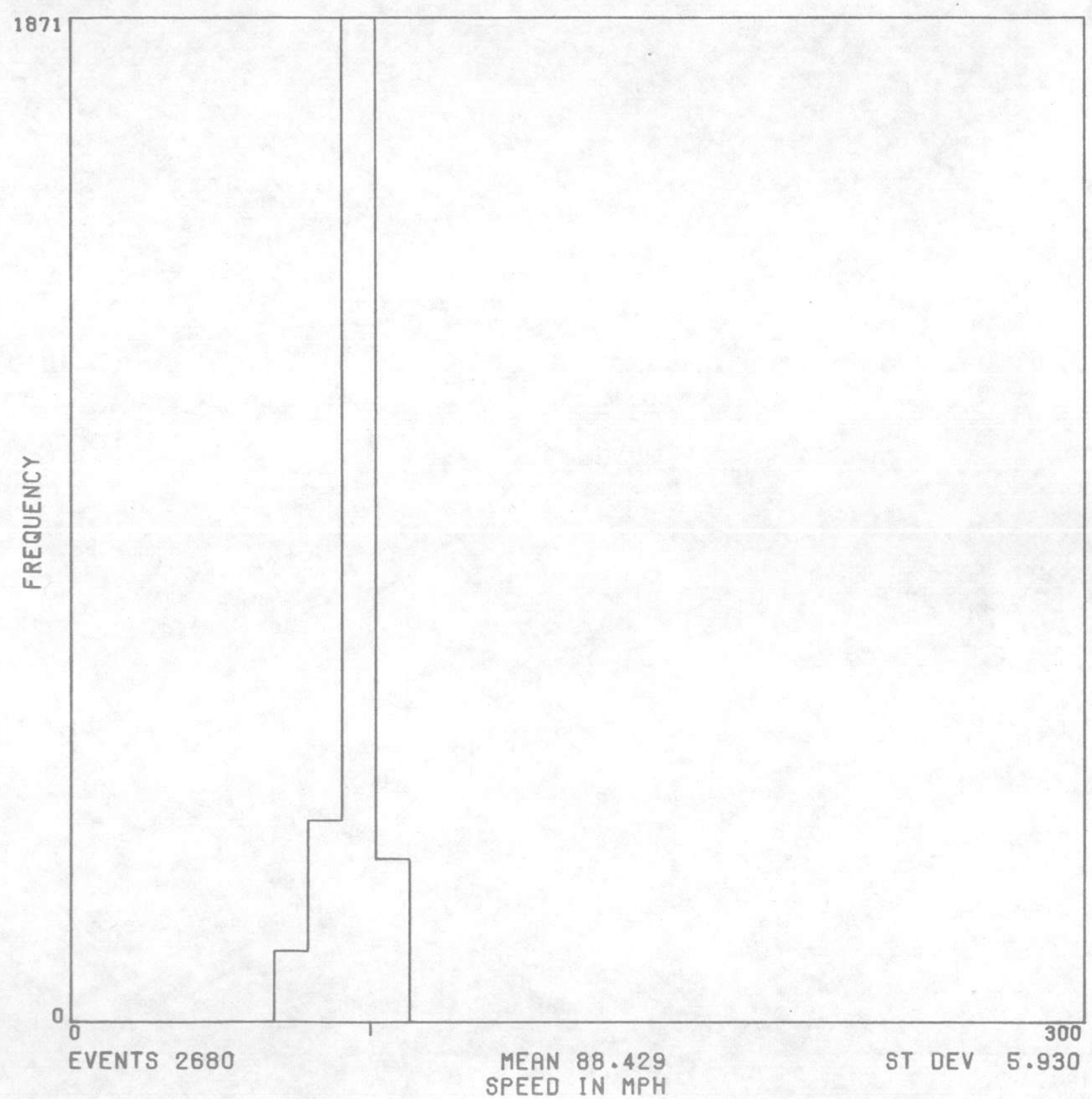
EVENTS 2680
MEAN 388.163
ALTITUDE IN FEET
ST DEV 53.128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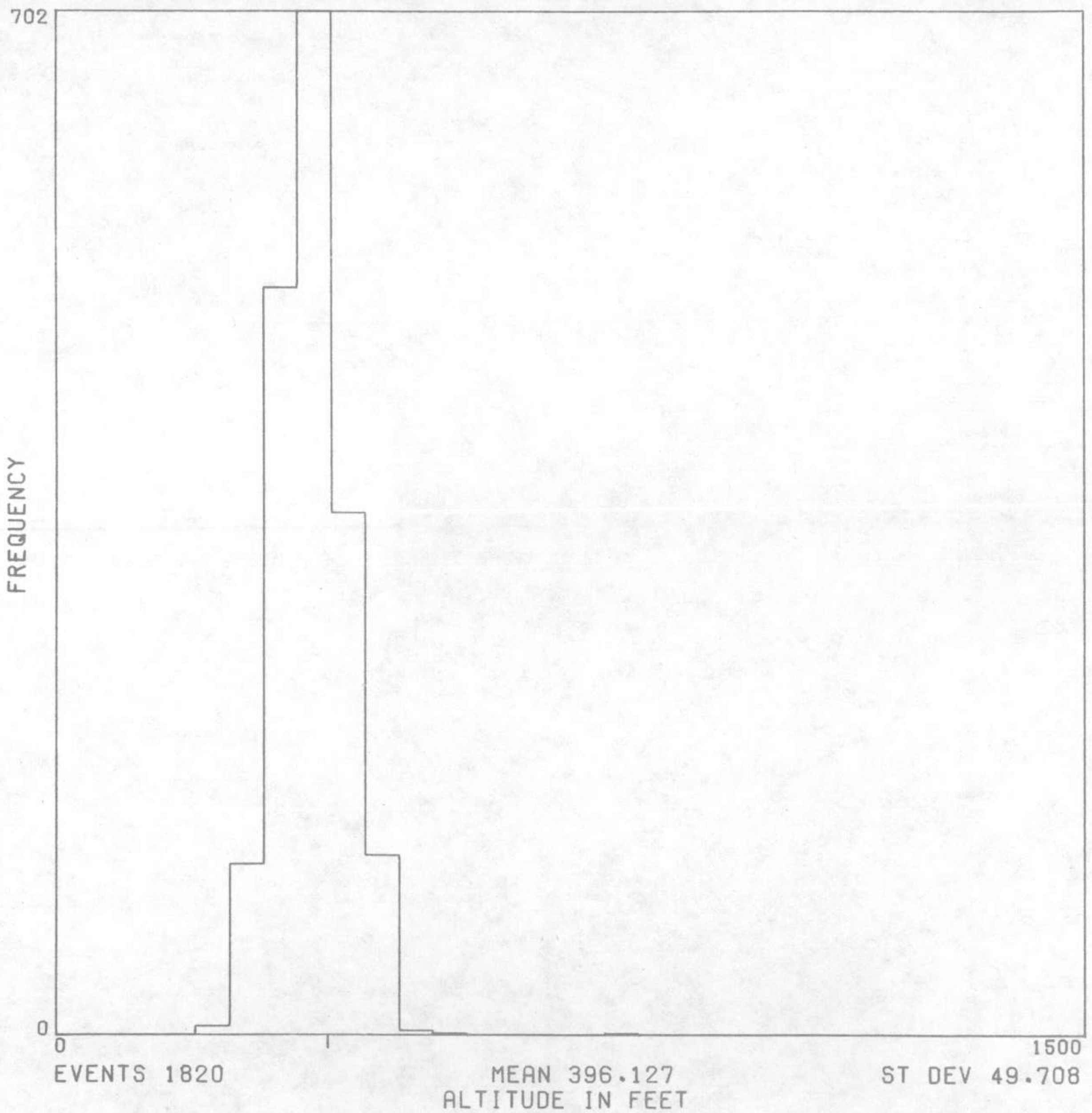
EVENTS 2680
MEAN 88.429
SPEED IN MPH
ST DEV 5.930

13W


702
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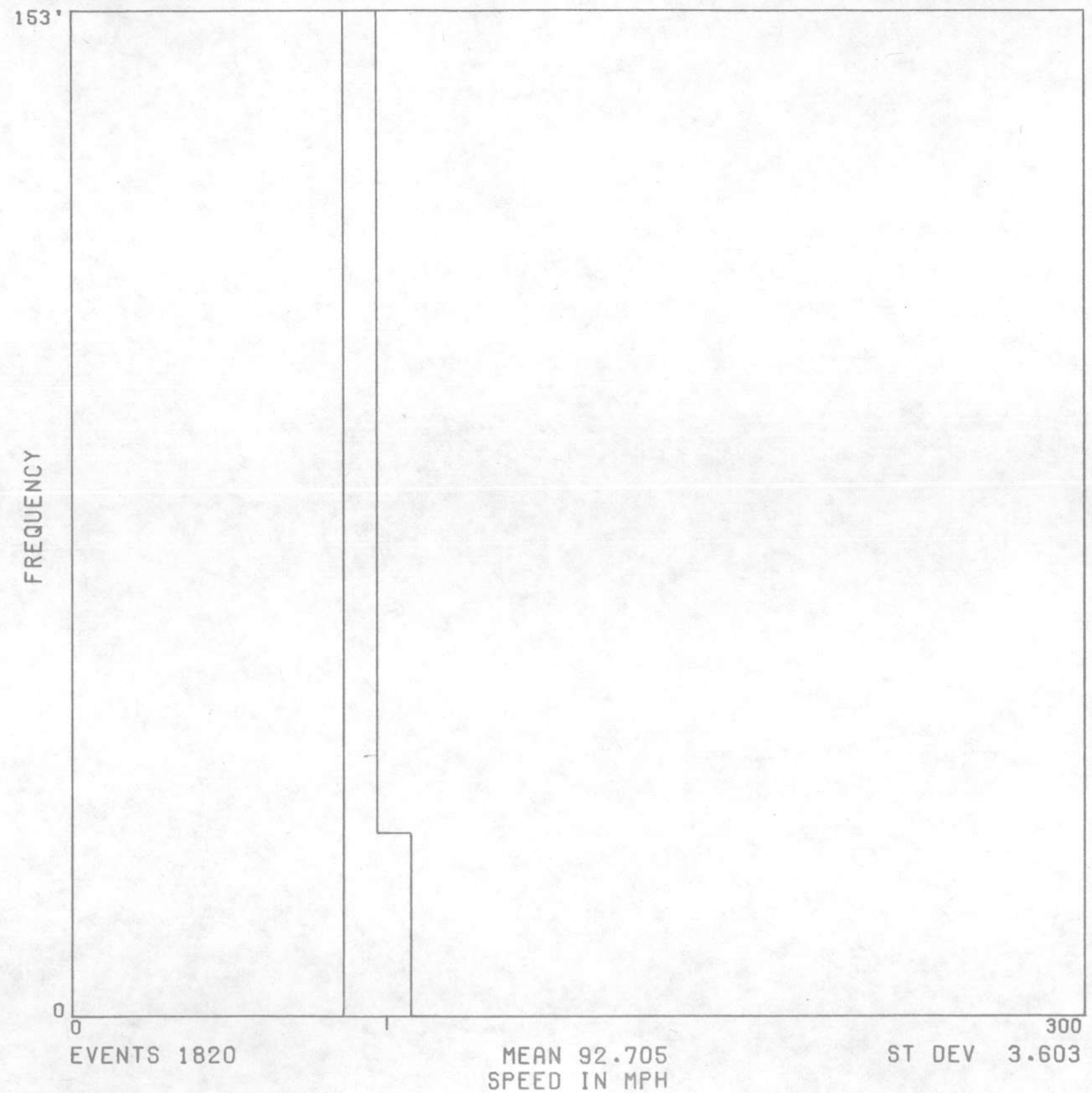
EVENTS 1820
MEAN 396.127
ST DEV 49.708
ALTITUDE IN FEET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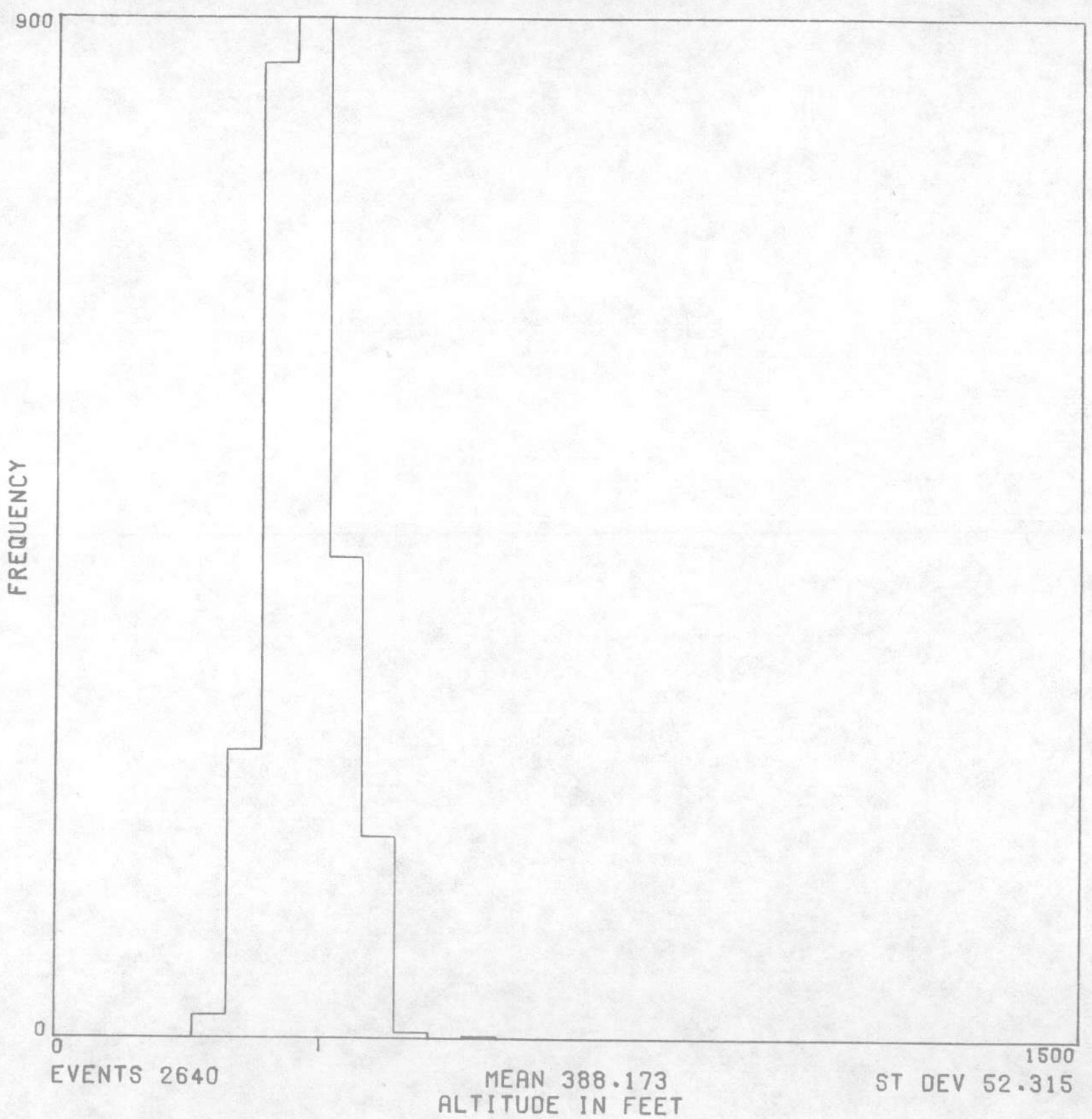
ST DEV 3.603
SPEED IN MPH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MEAN 388.173
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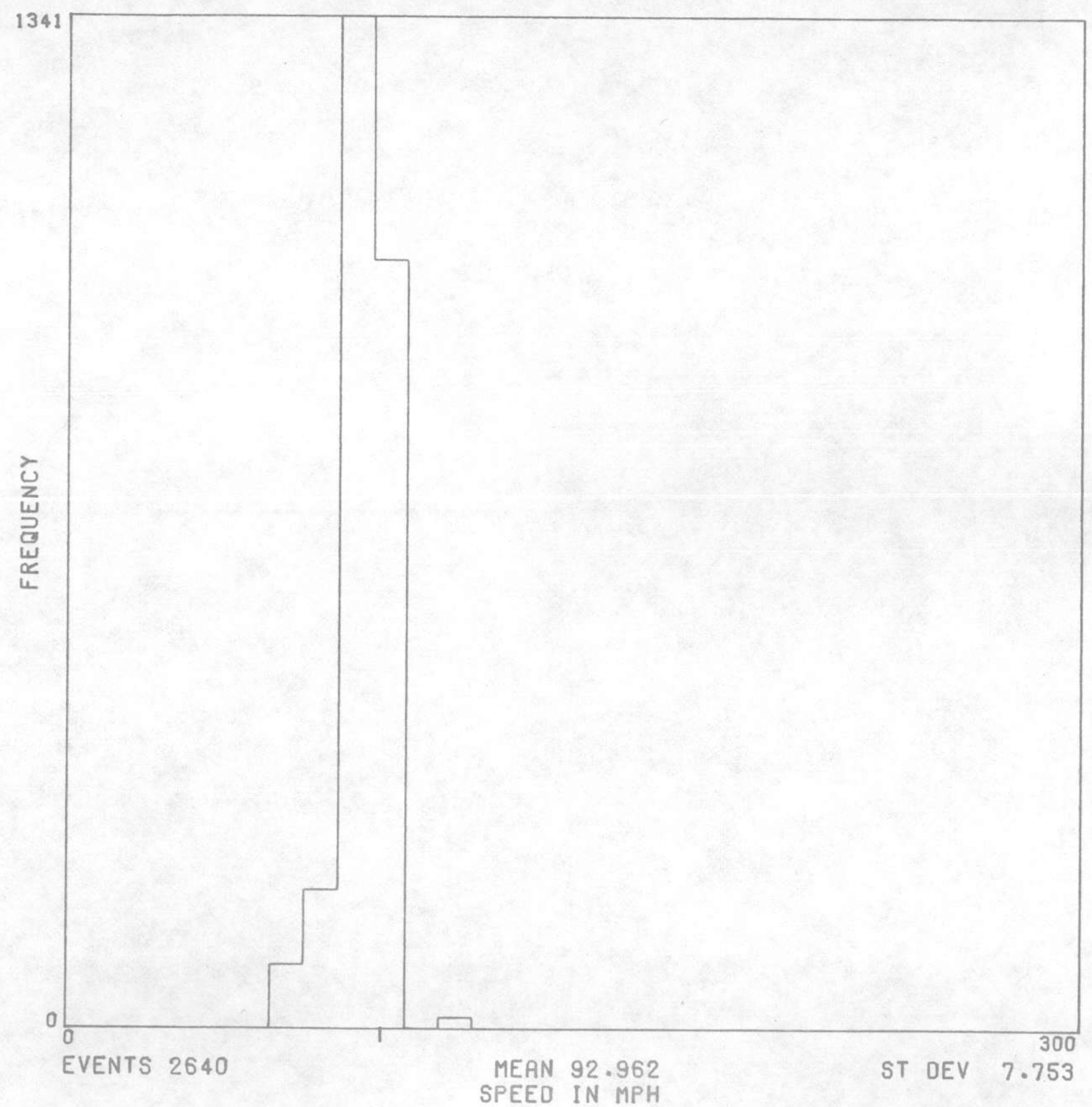
ST DEV 52.315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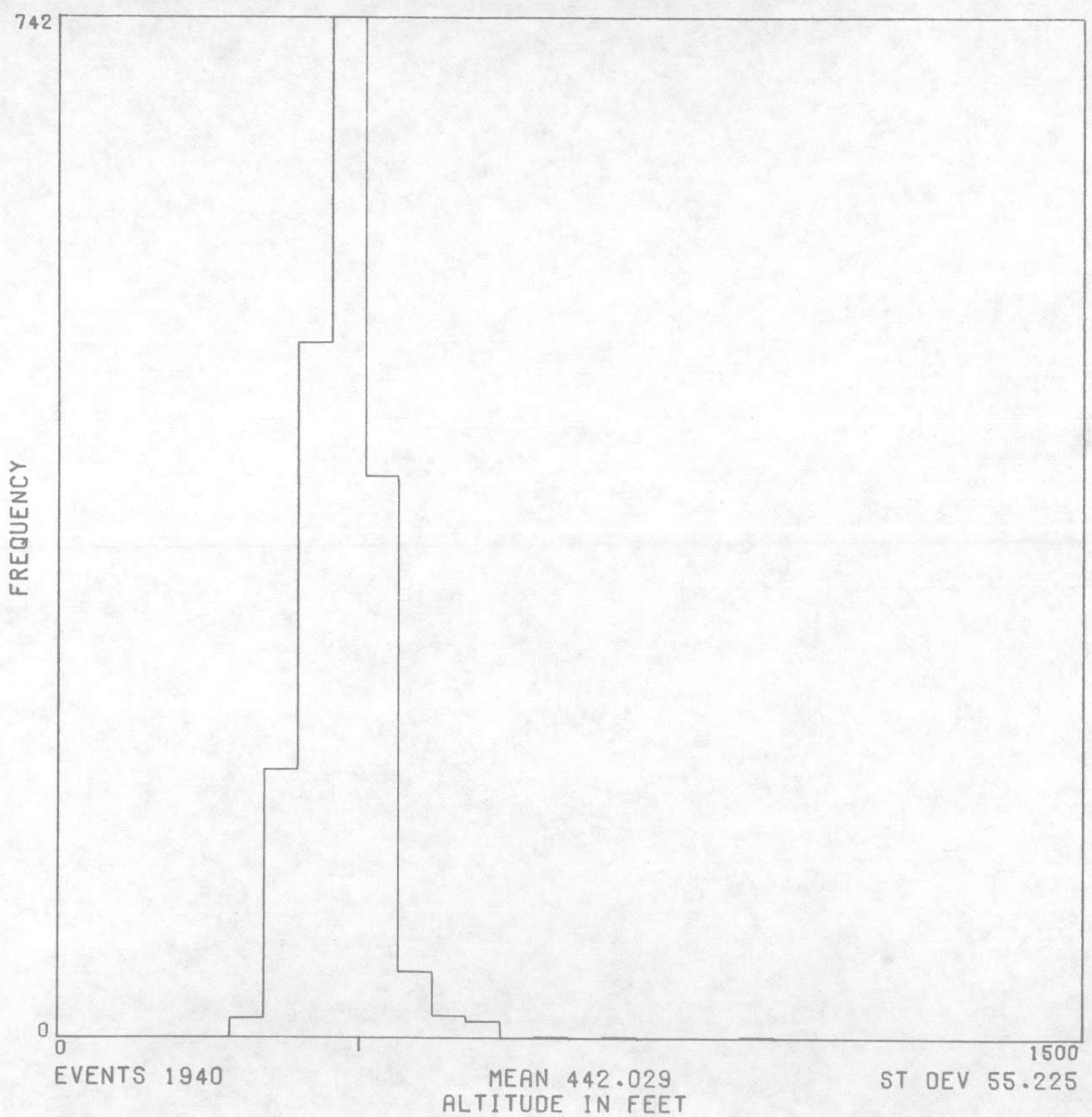
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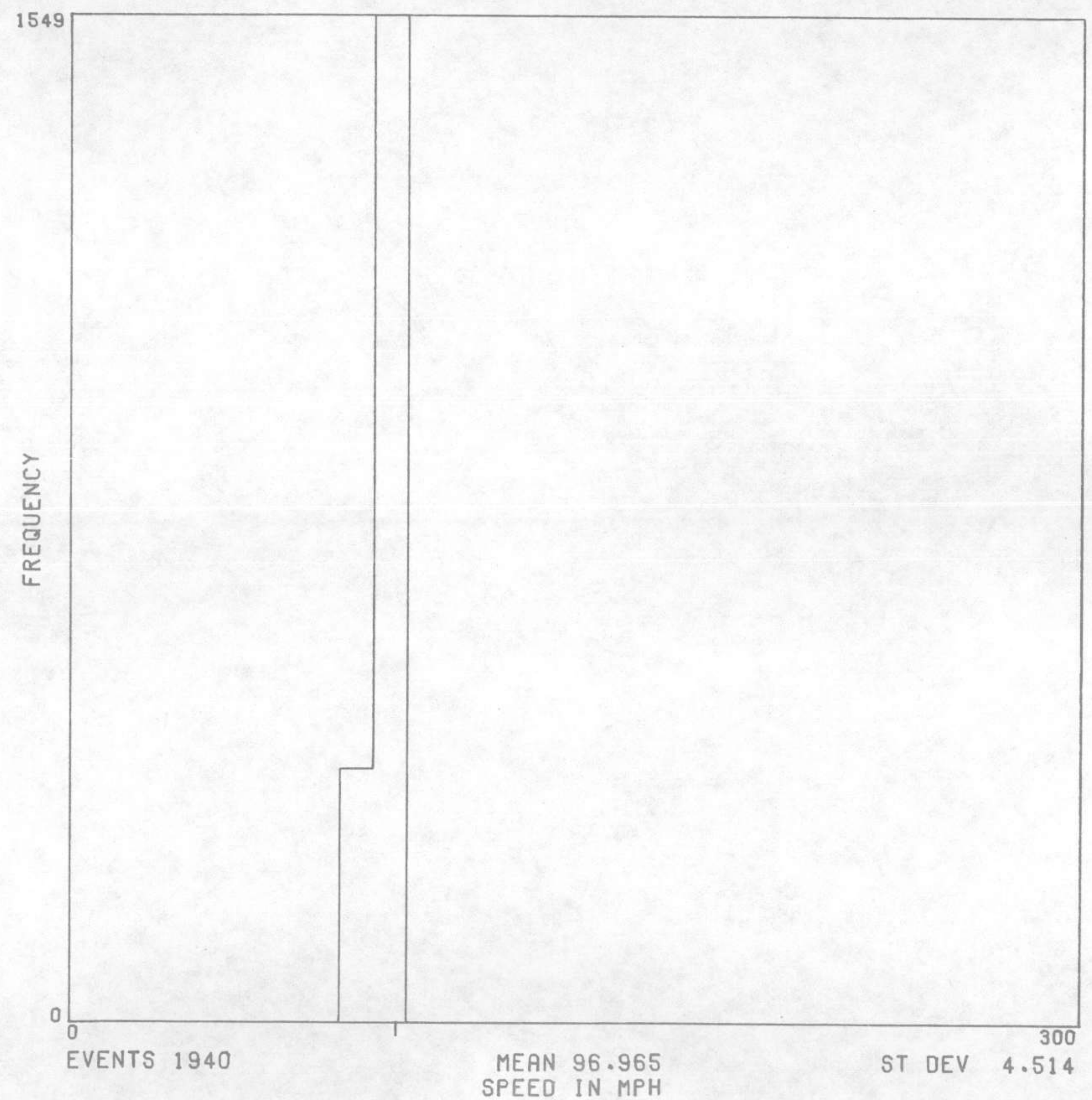
ST DEV 55.225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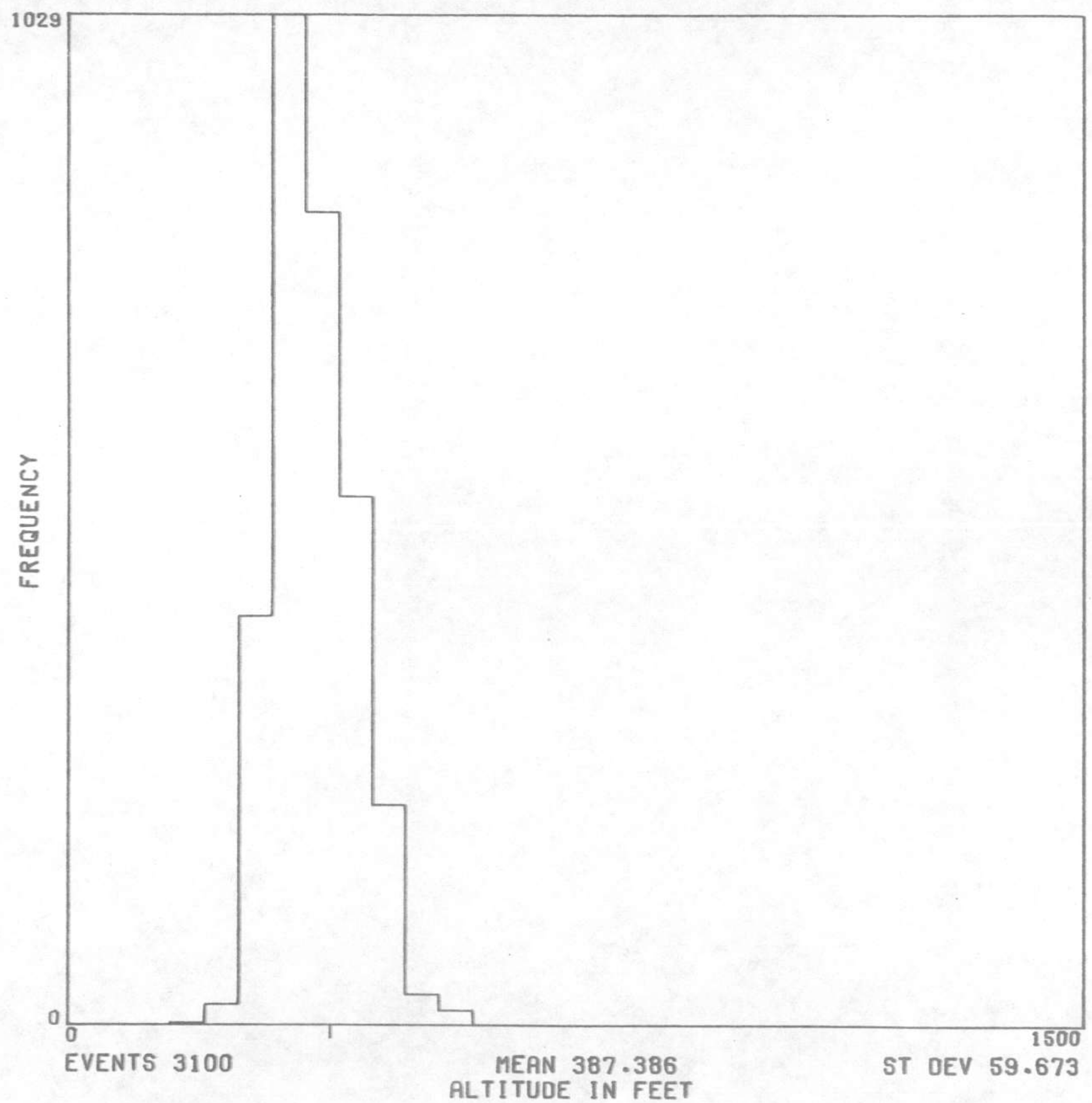
ST DEV 4.514



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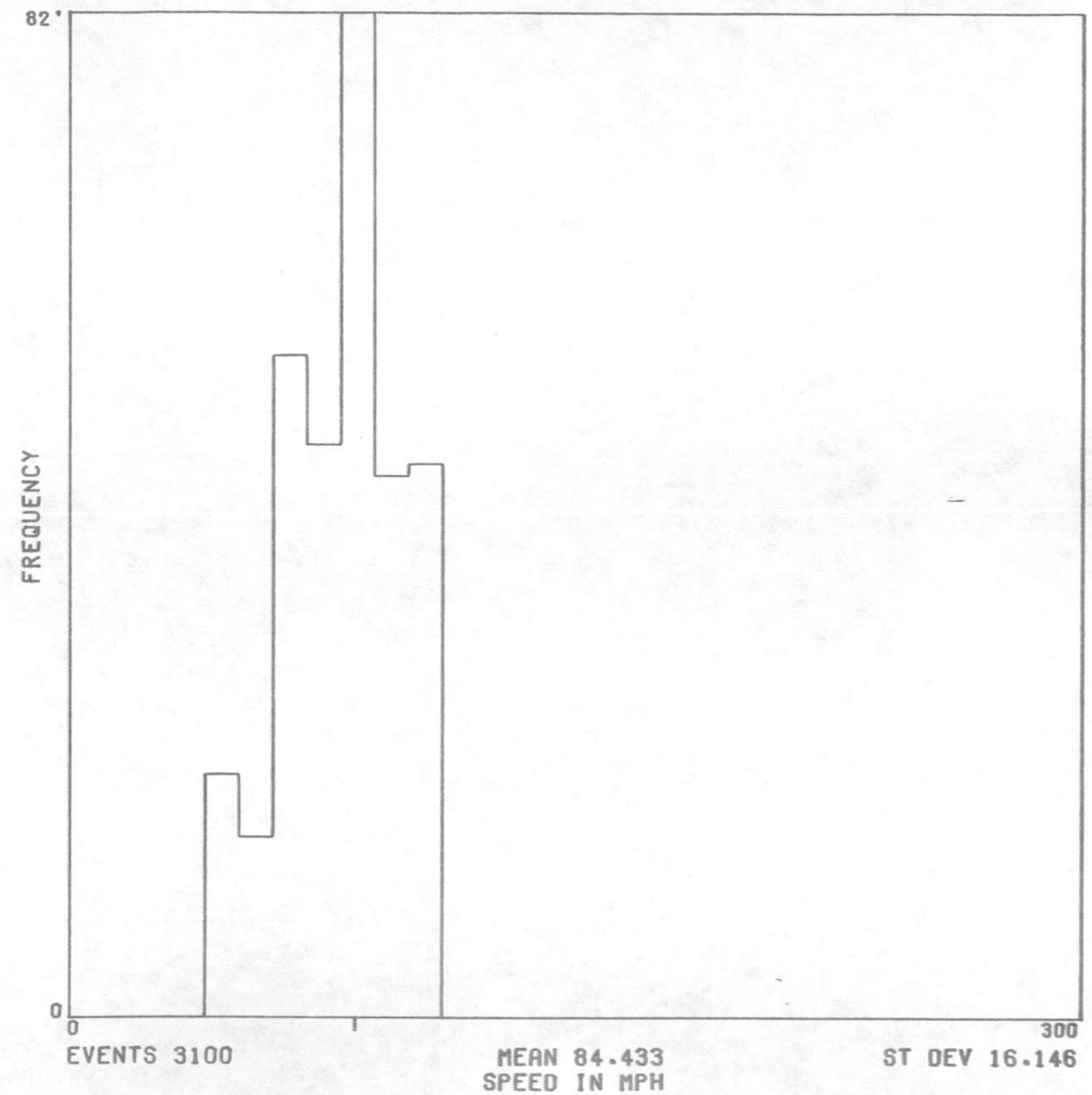
ST DEV 59.673



82
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MEAN 84.433
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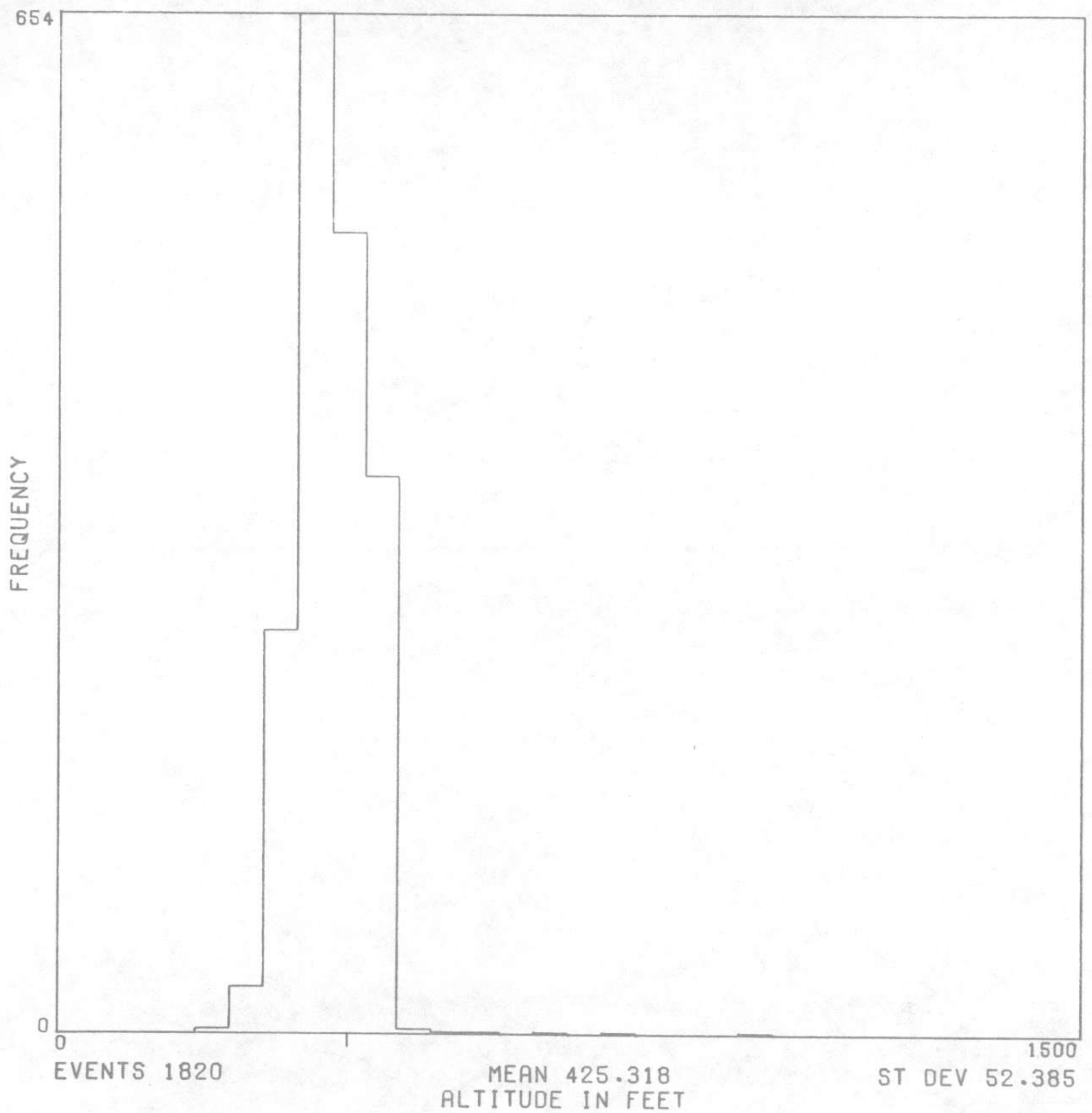
ST DEV 16.146

15W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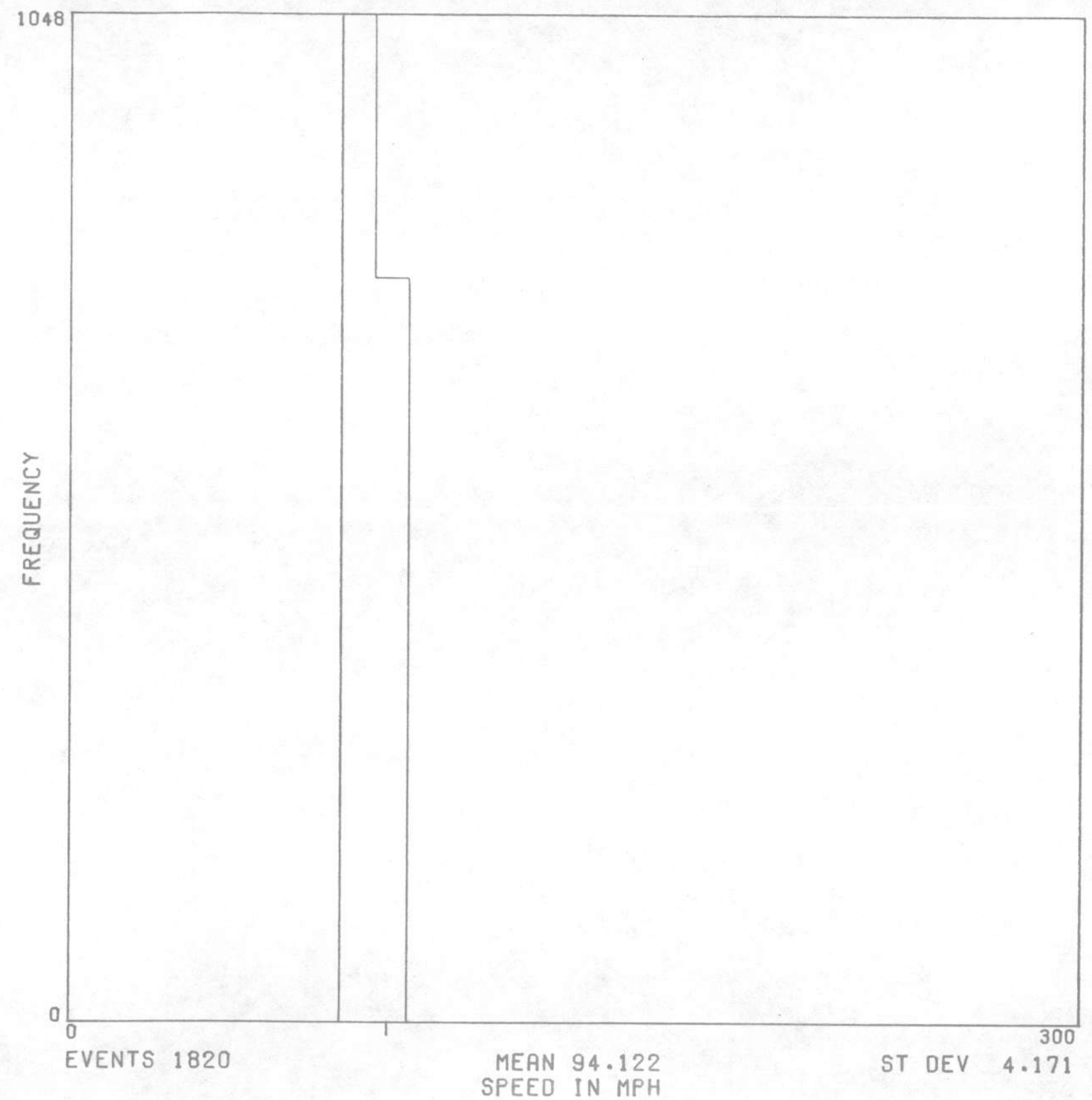
ST DEV 52.385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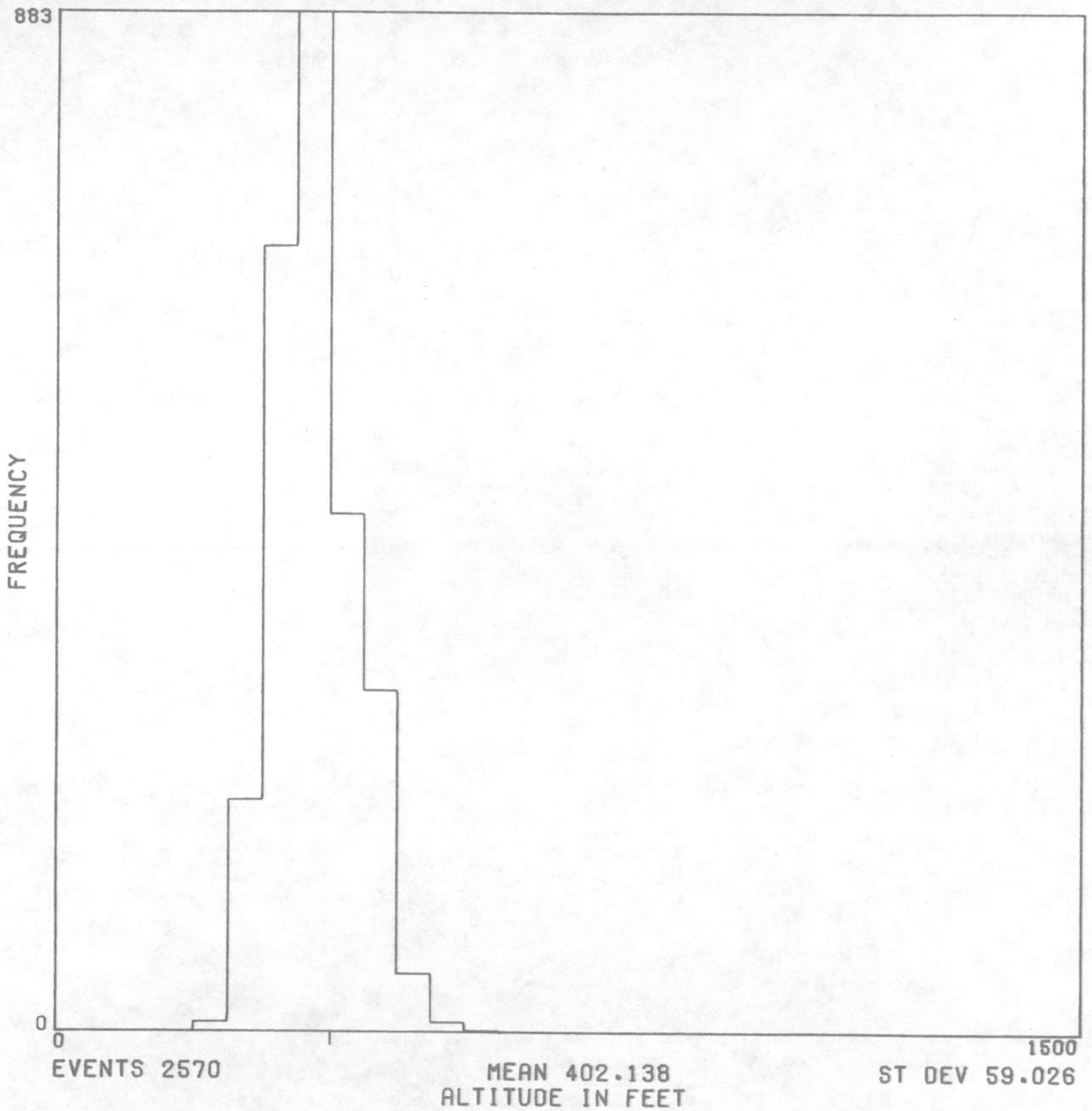
ST DEV 4.171



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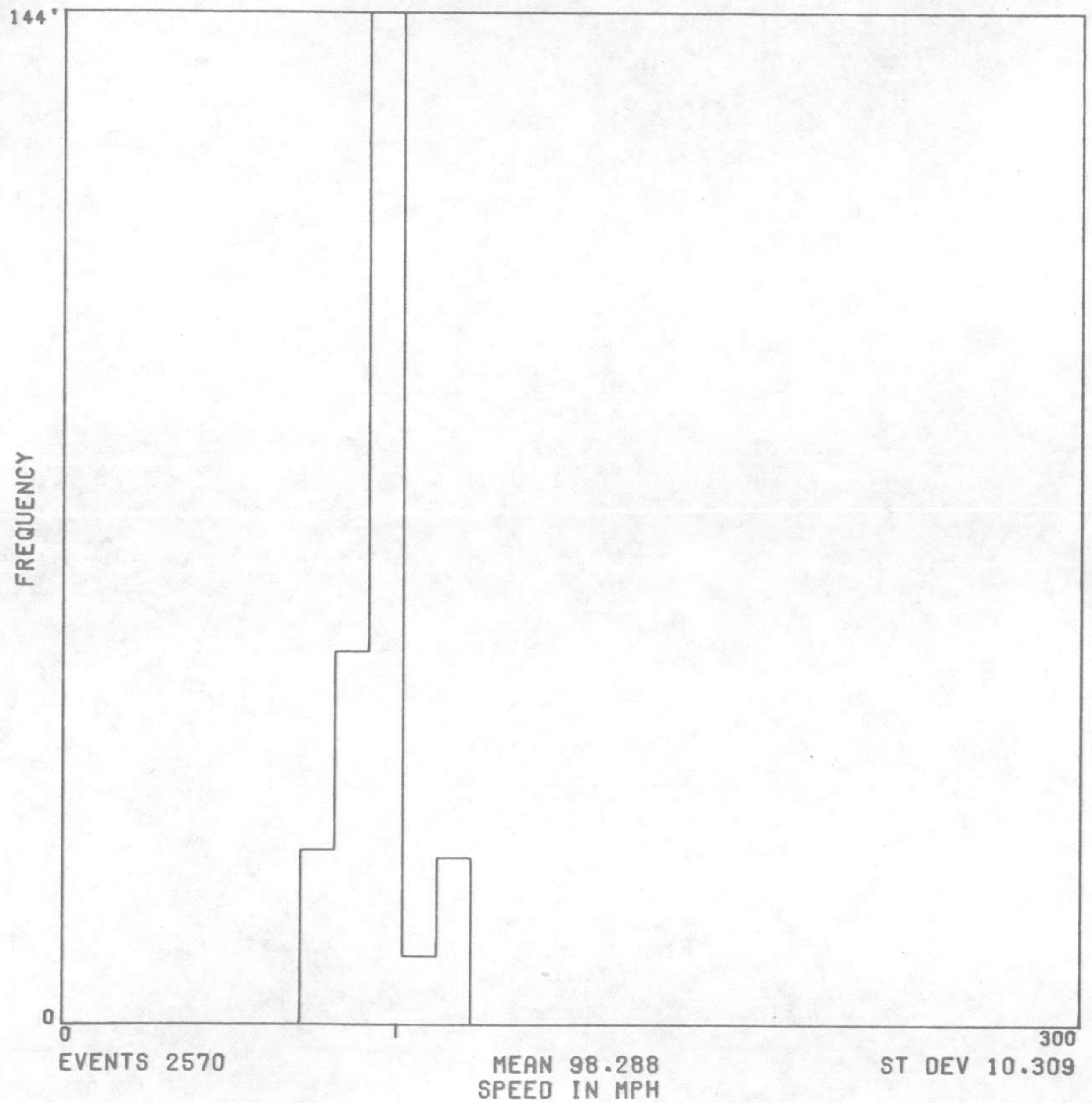
ST DEV 59.026
ALTITUDE IN FEET



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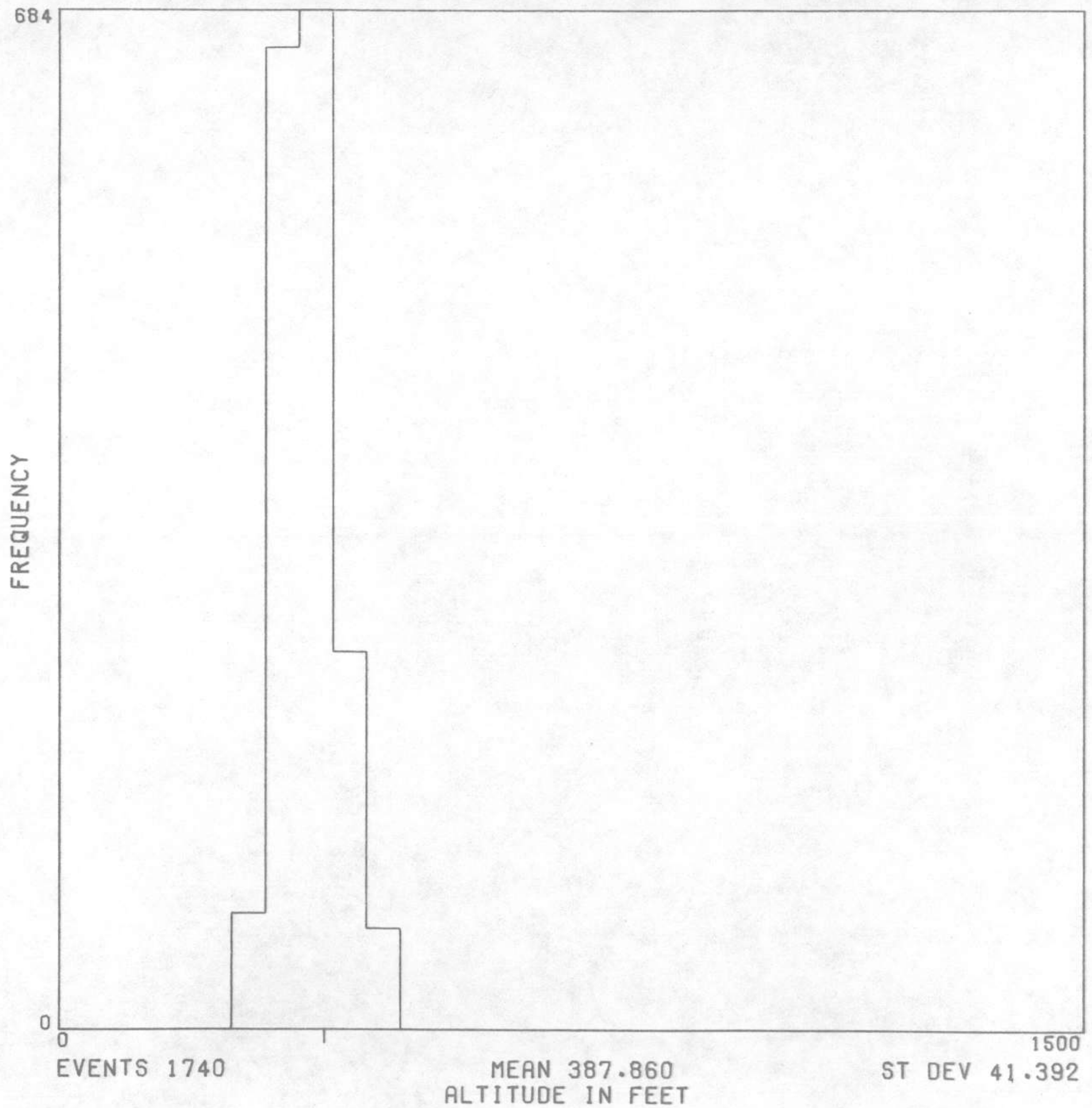
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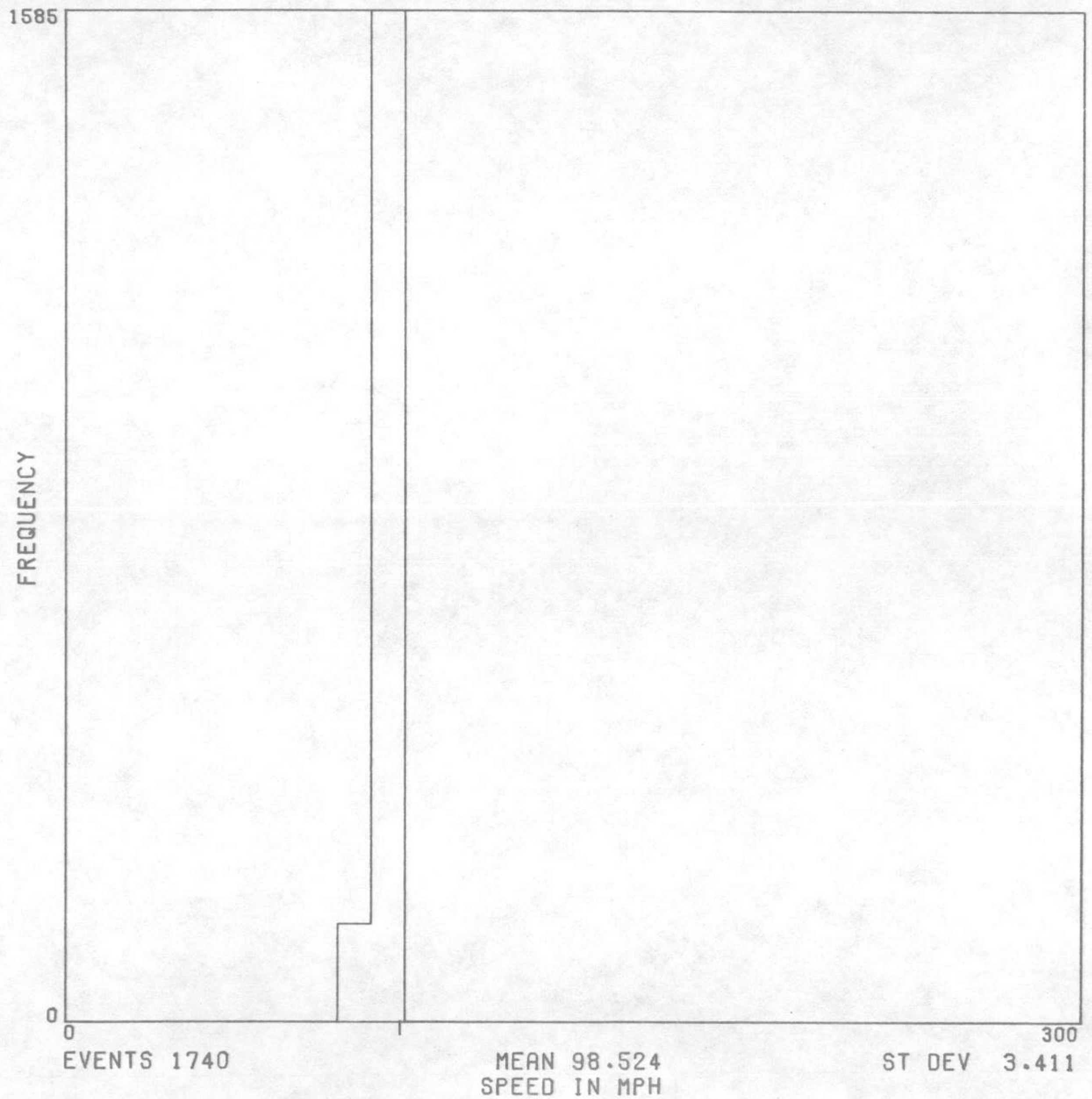
ALTITUDE IN FEET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MEAN 98.524
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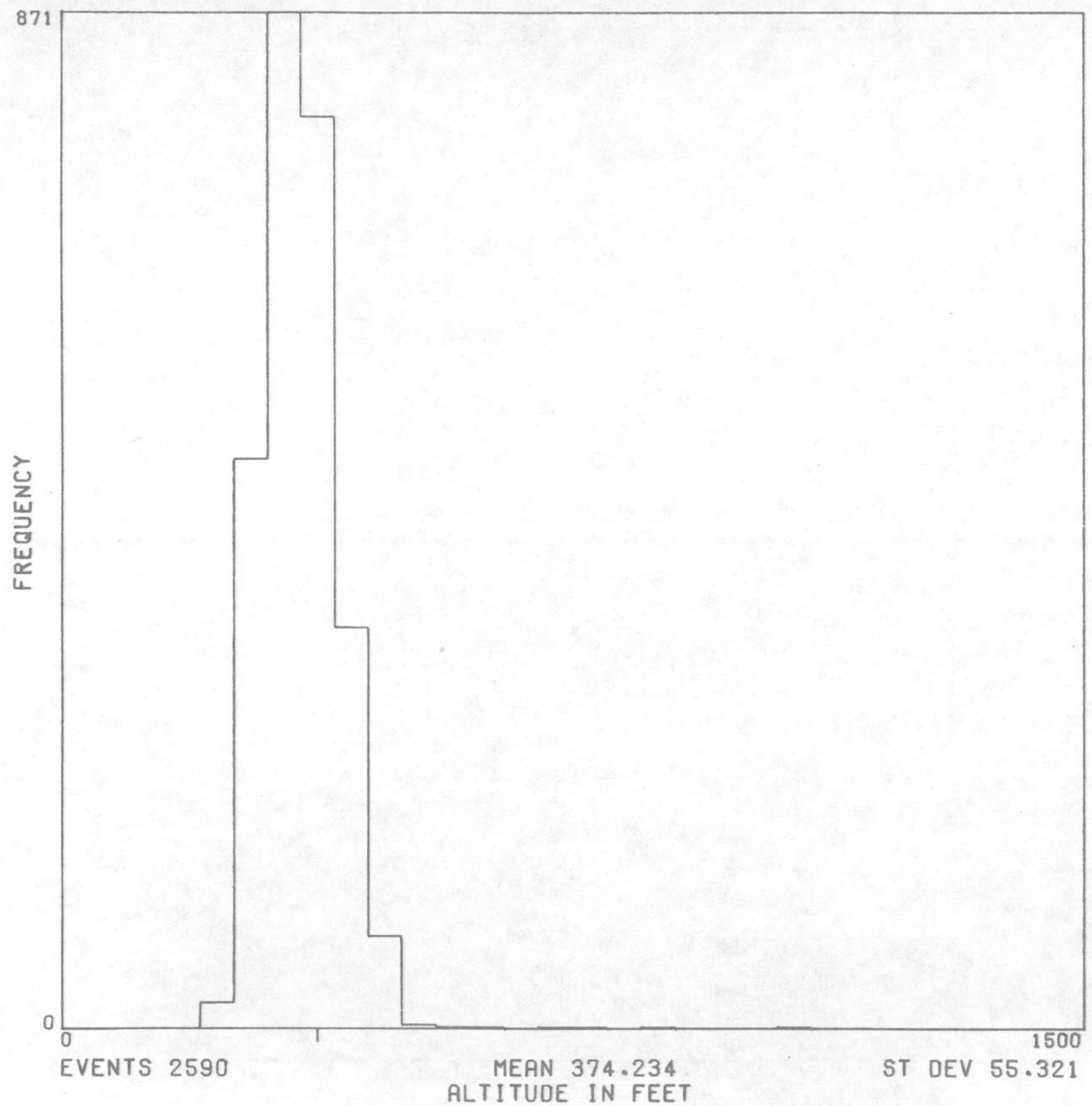
SPEED IN MPH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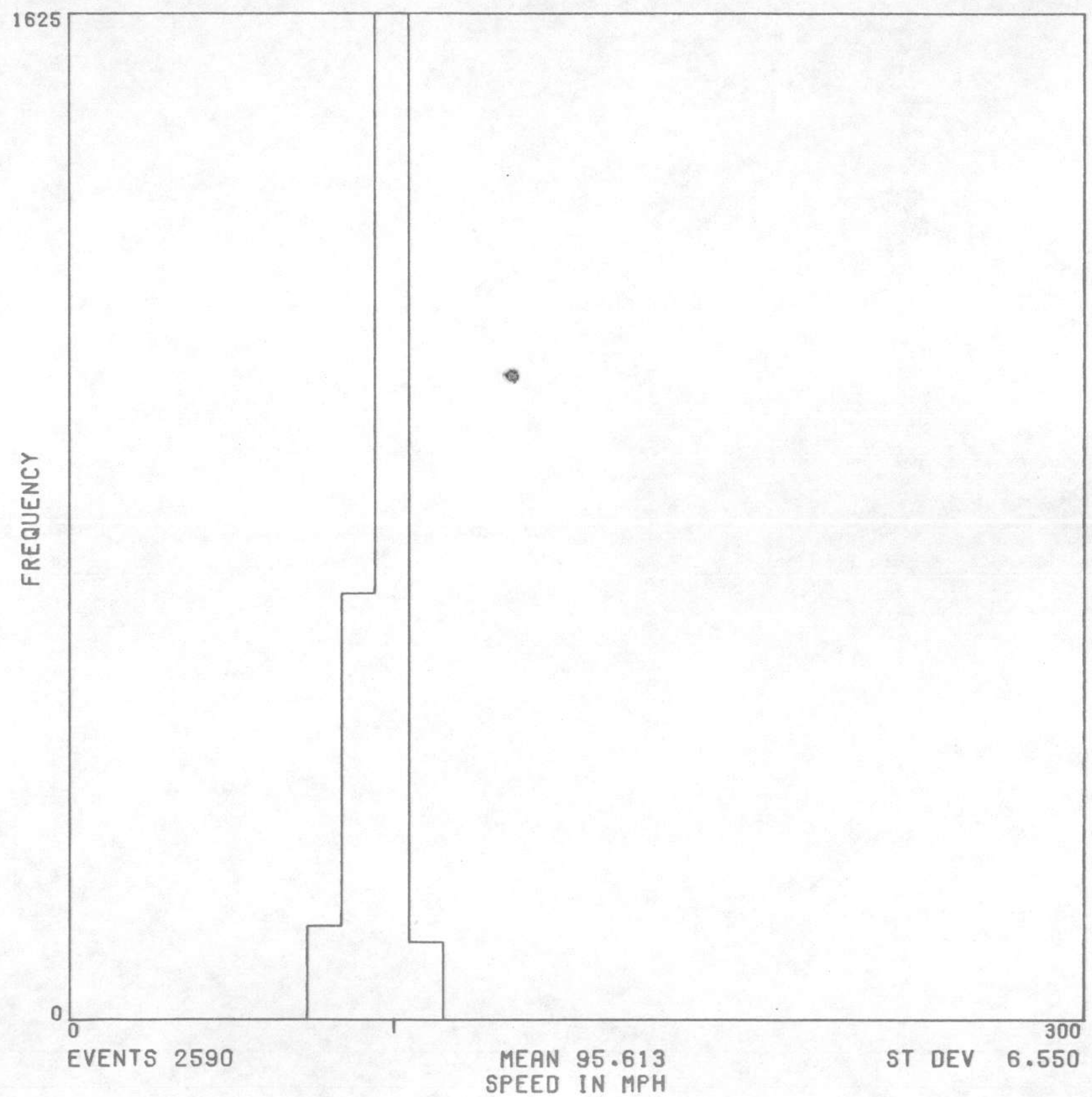
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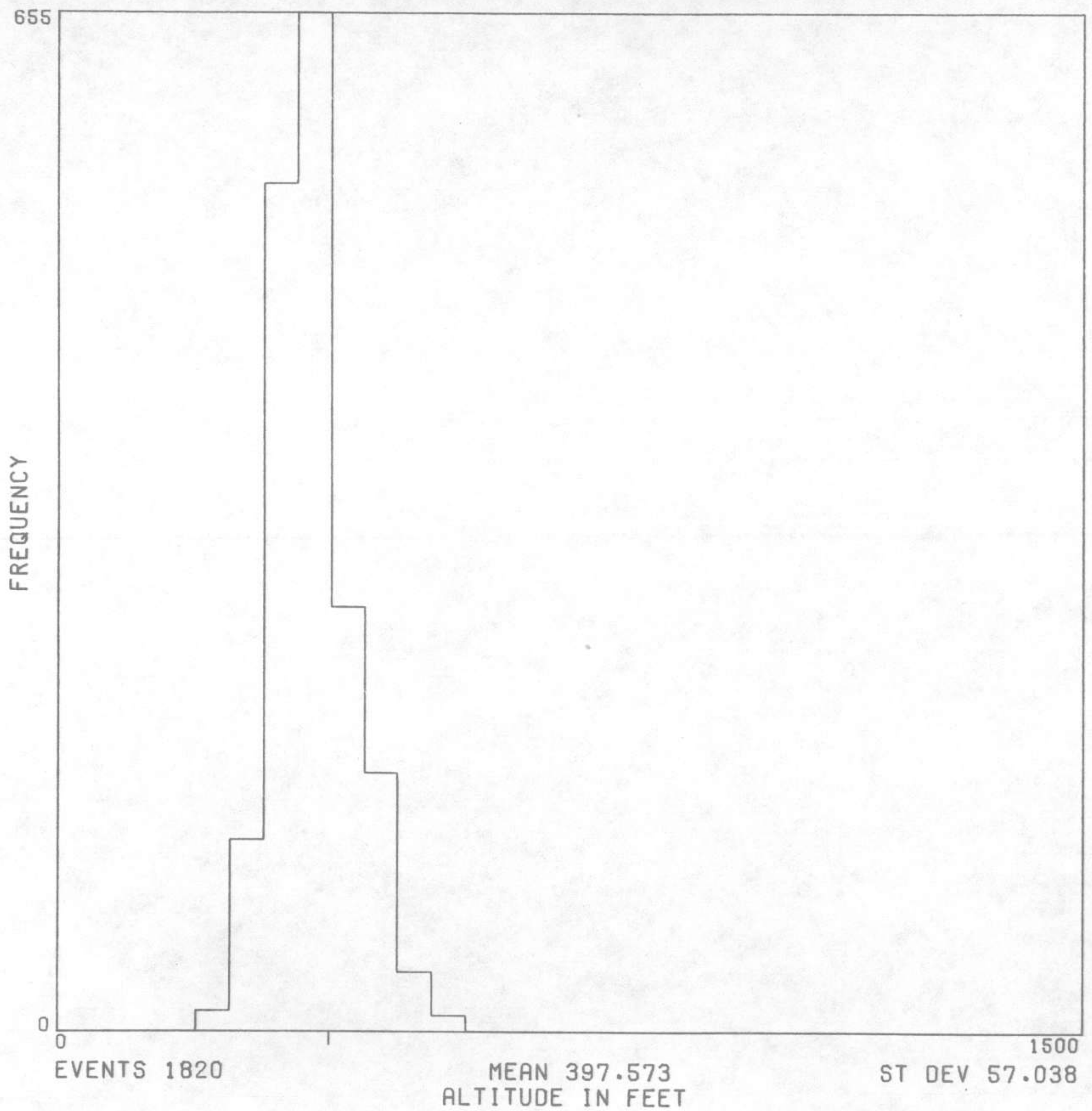
SPEED IN MPH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MEAN 397.573
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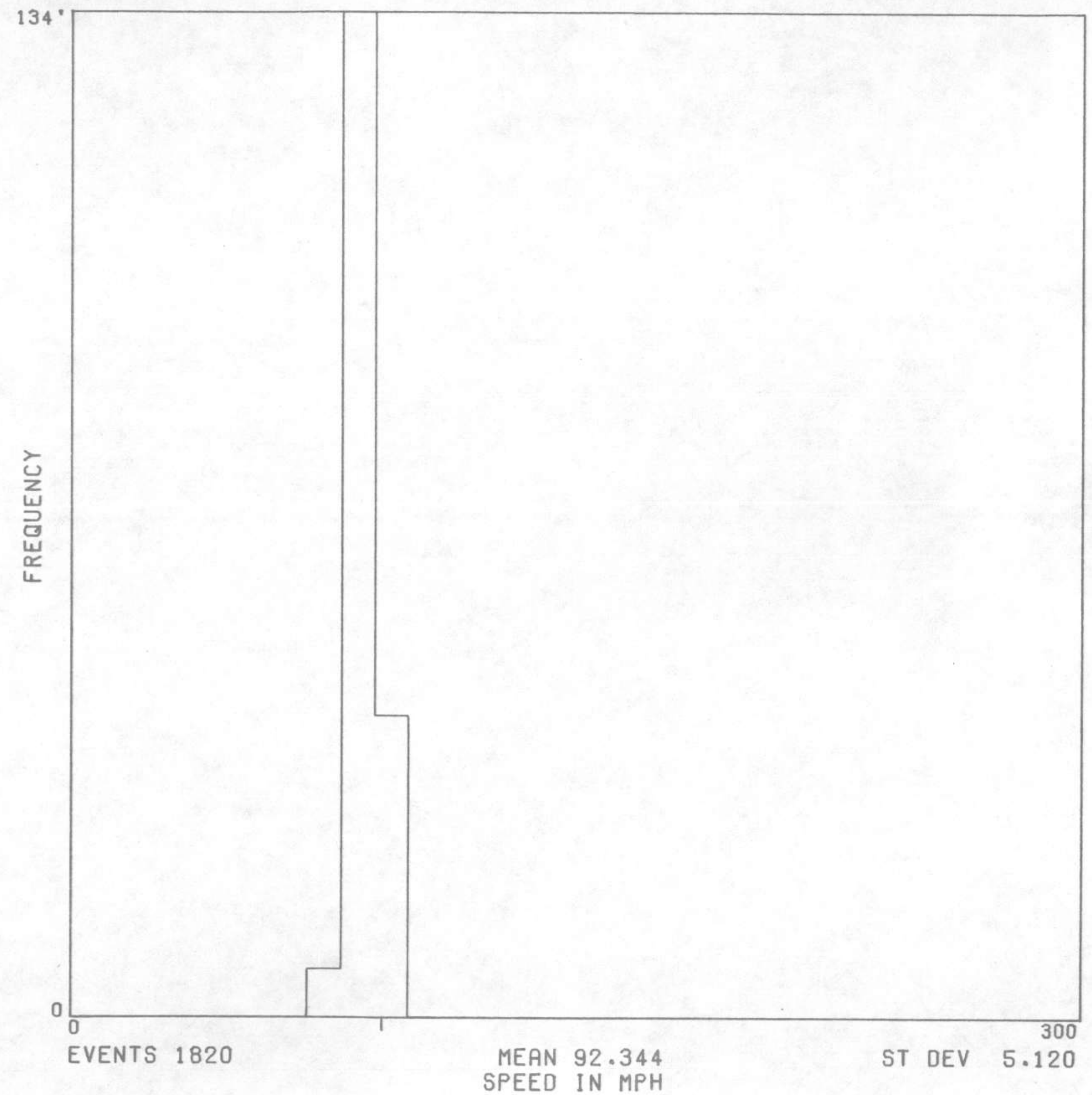
ST DEV 57.038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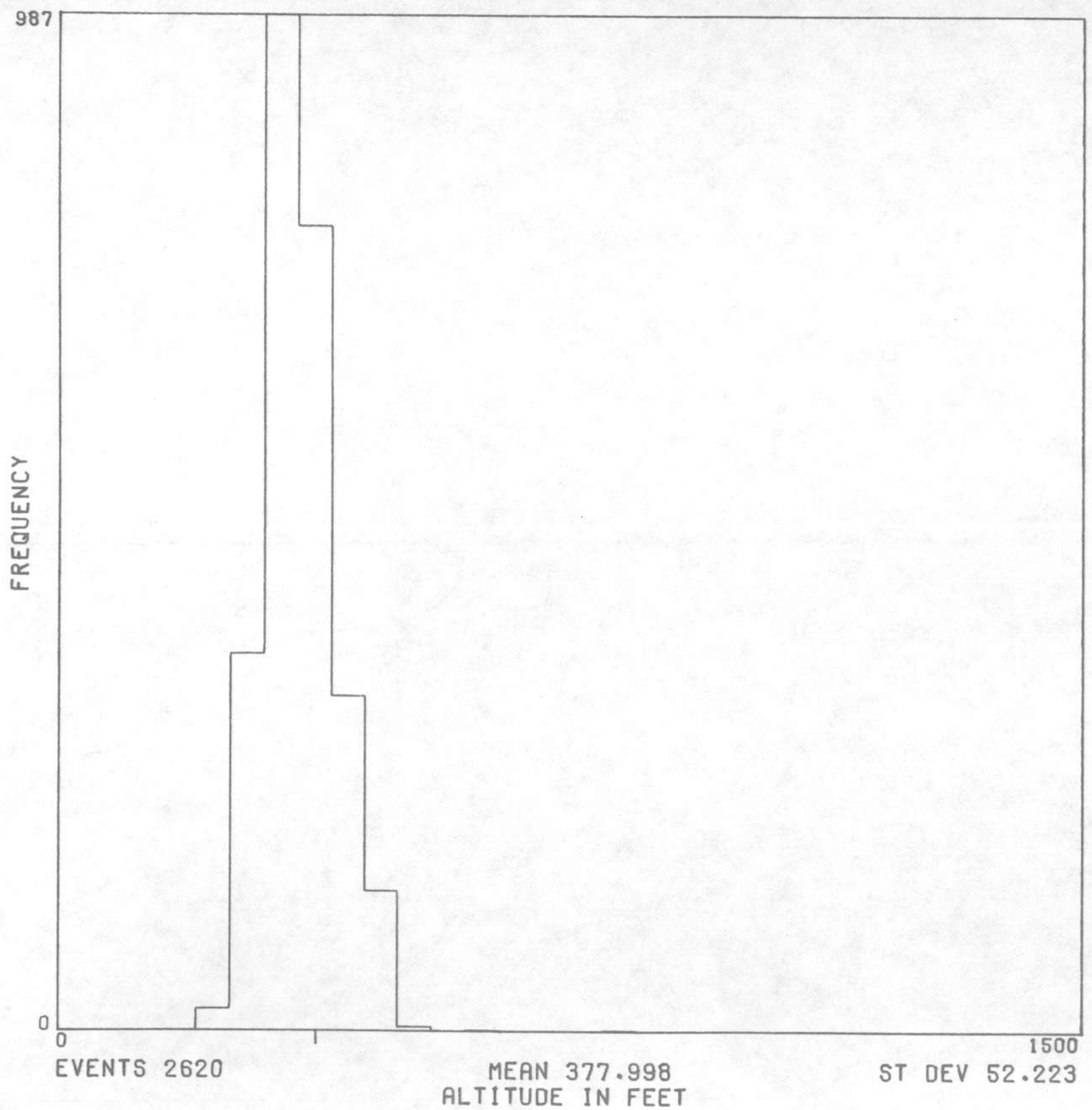
ST DEV 5.120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MEAN 377.998
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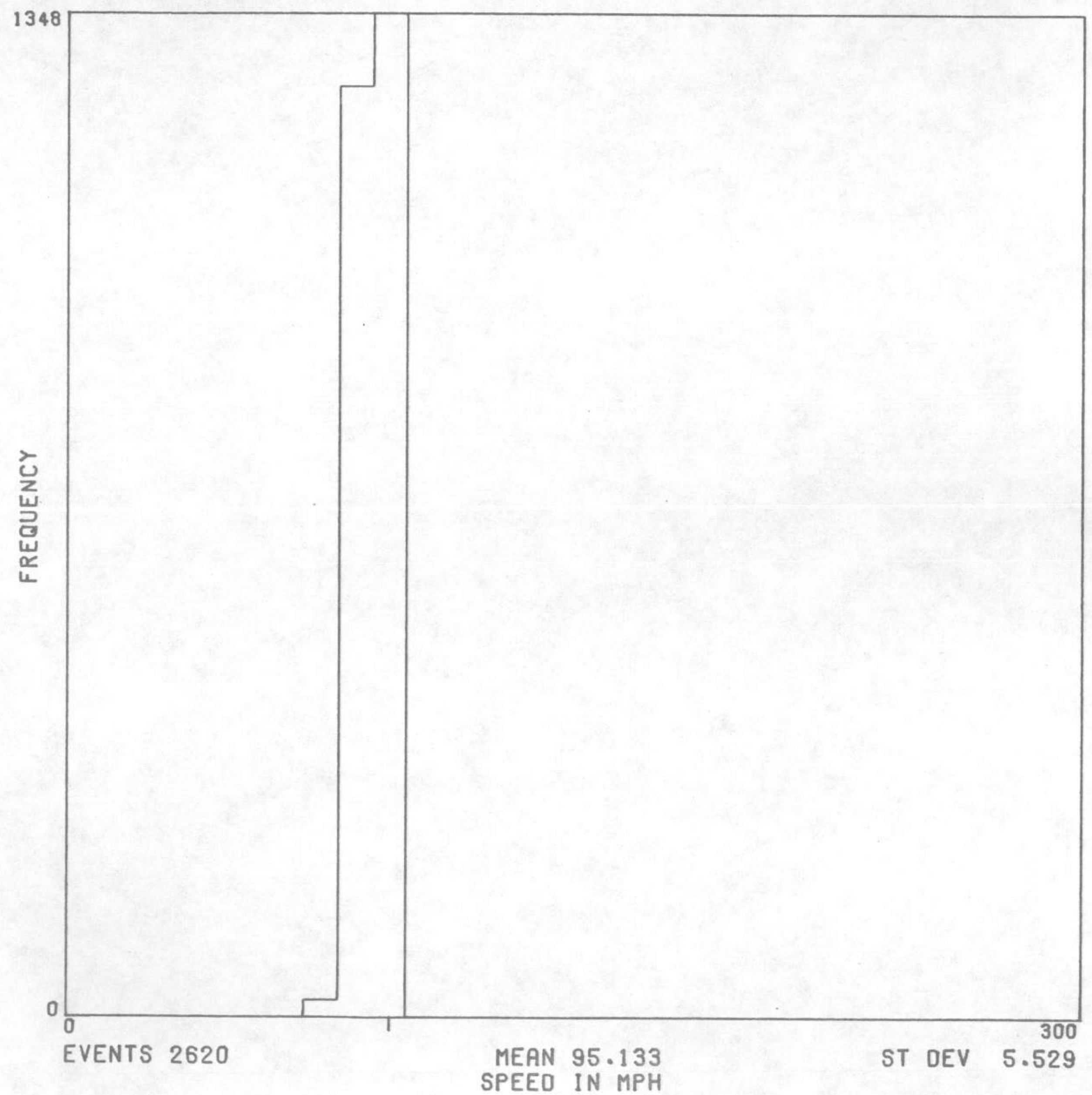
ST DEV 52.223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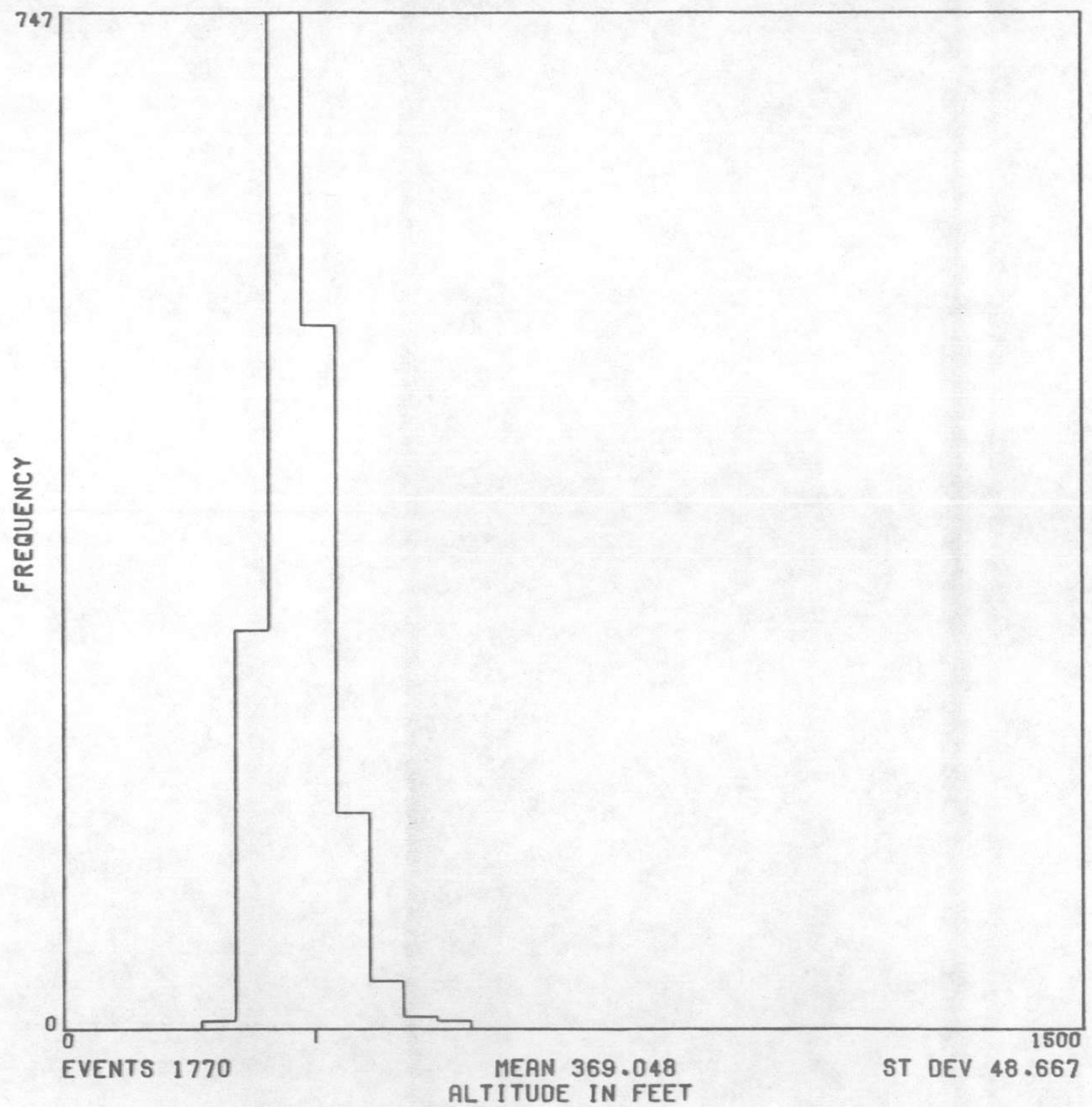
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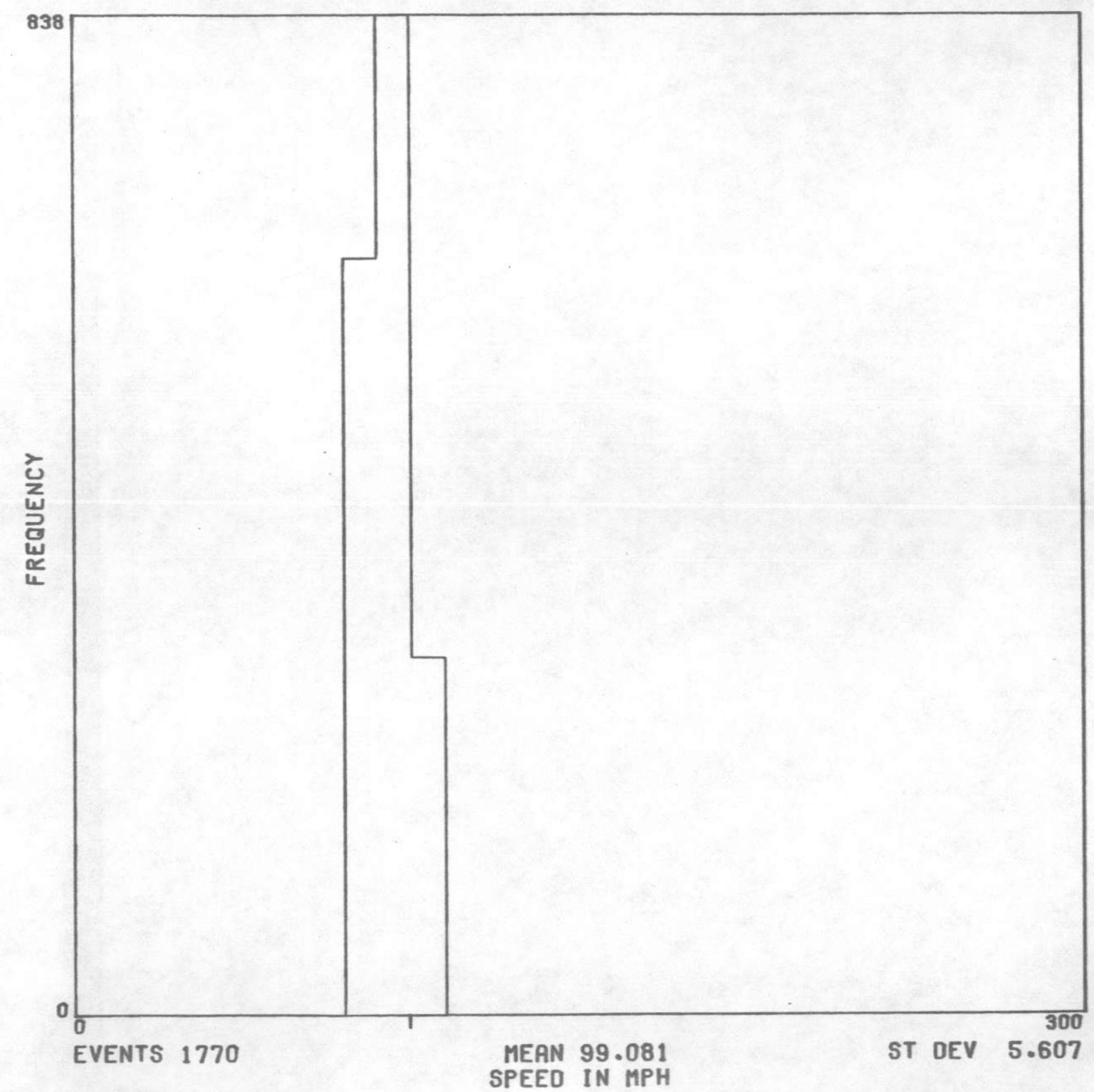
ALTITUDE IN FEET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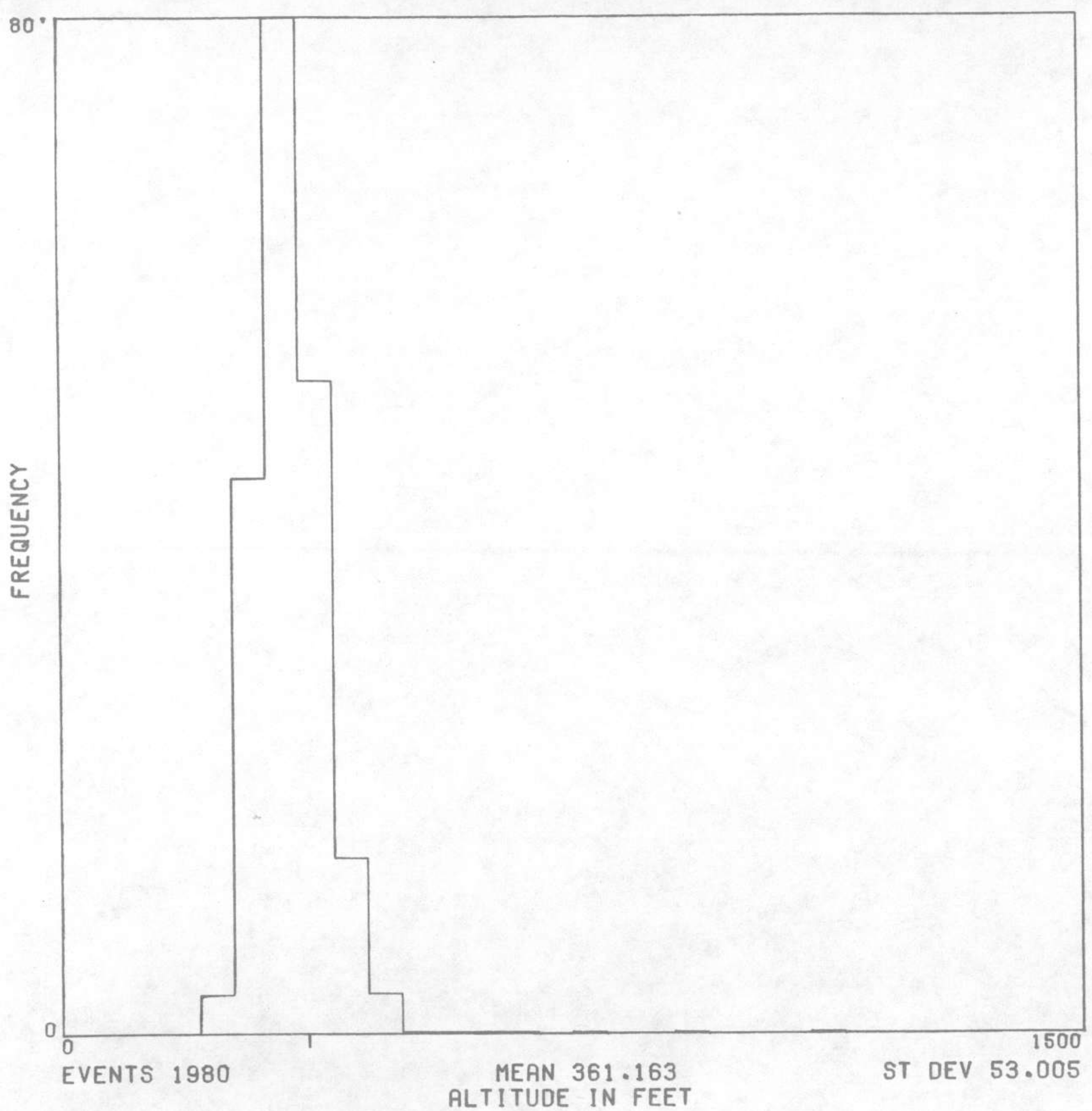
SPEED IN MPH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EVENTS 1980
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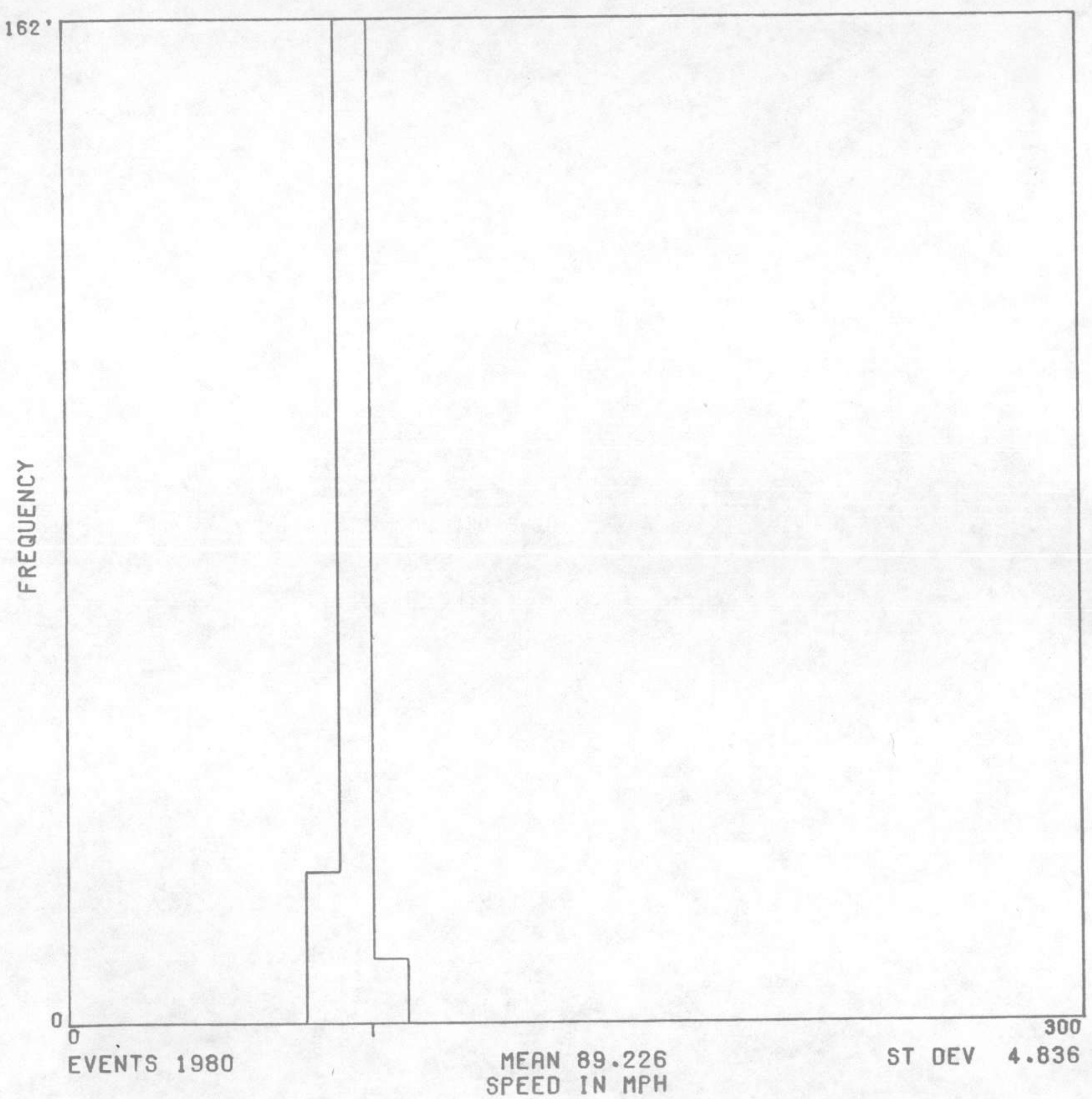
ST DEV 53.005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MEAN 89.226
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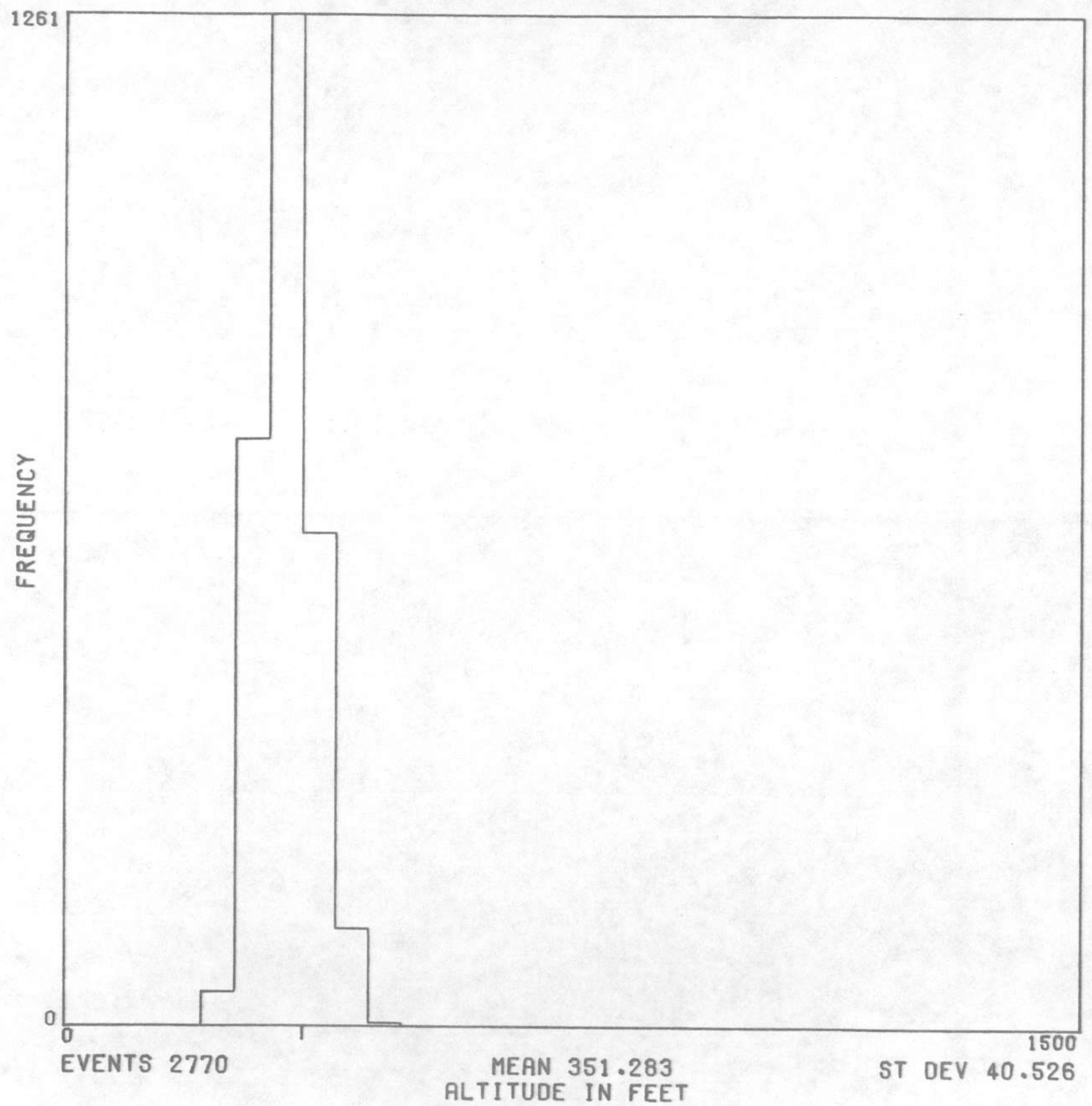
ST DEV 4.836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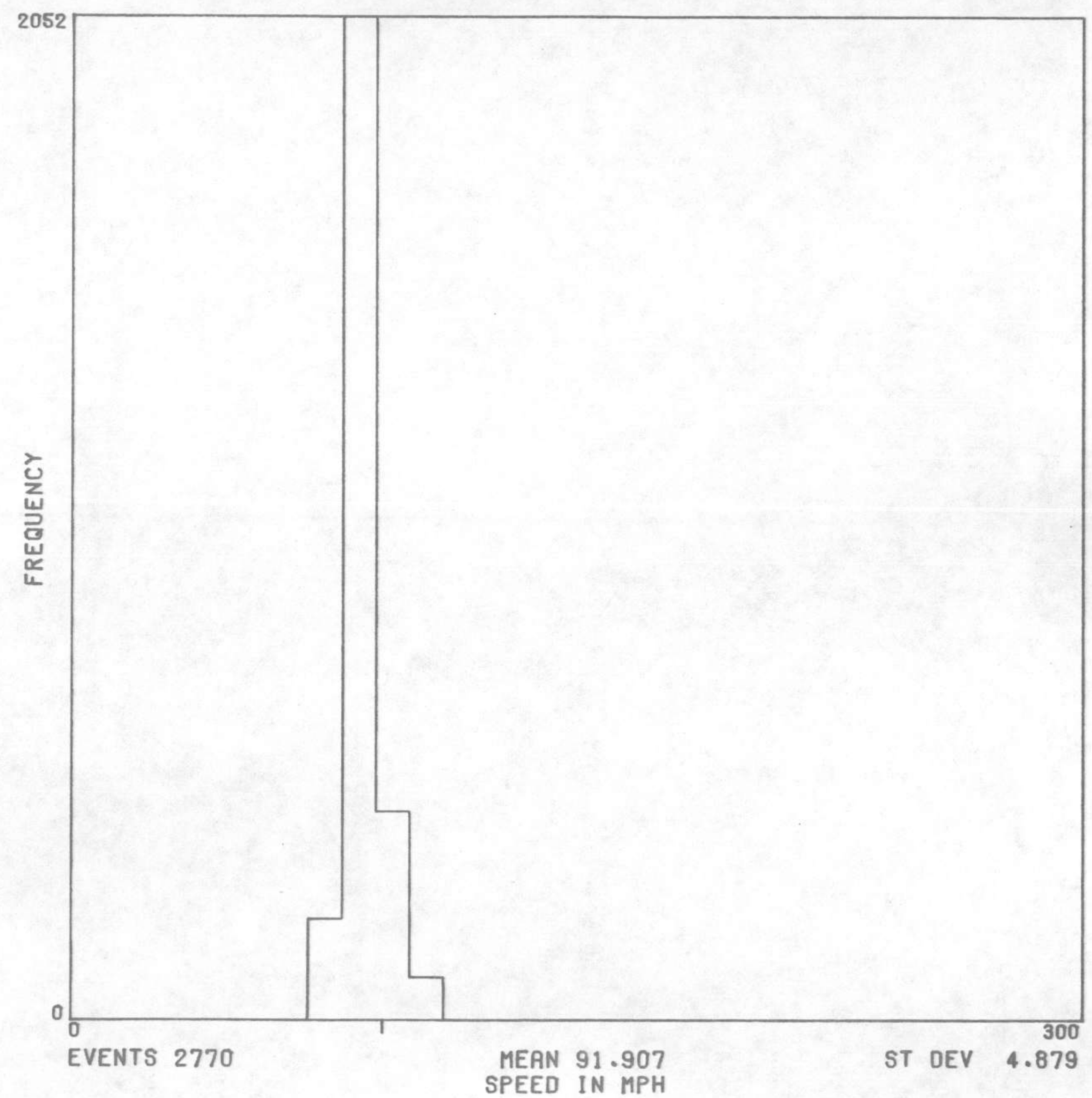
ST DEV 40.526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FREQUENCY
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EVENTS 2770
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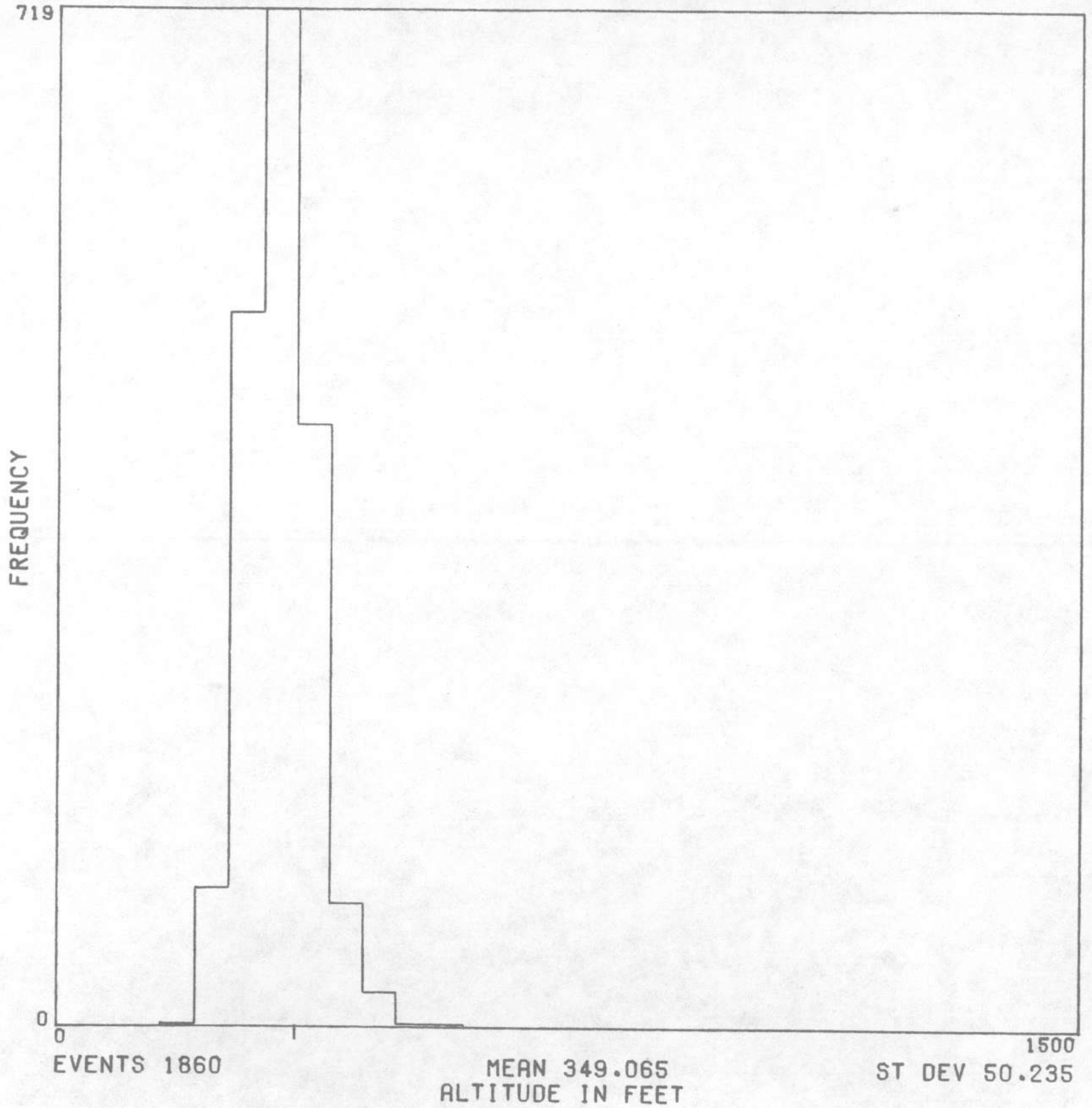
ST DEV 4.879

20W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FREQUENCY
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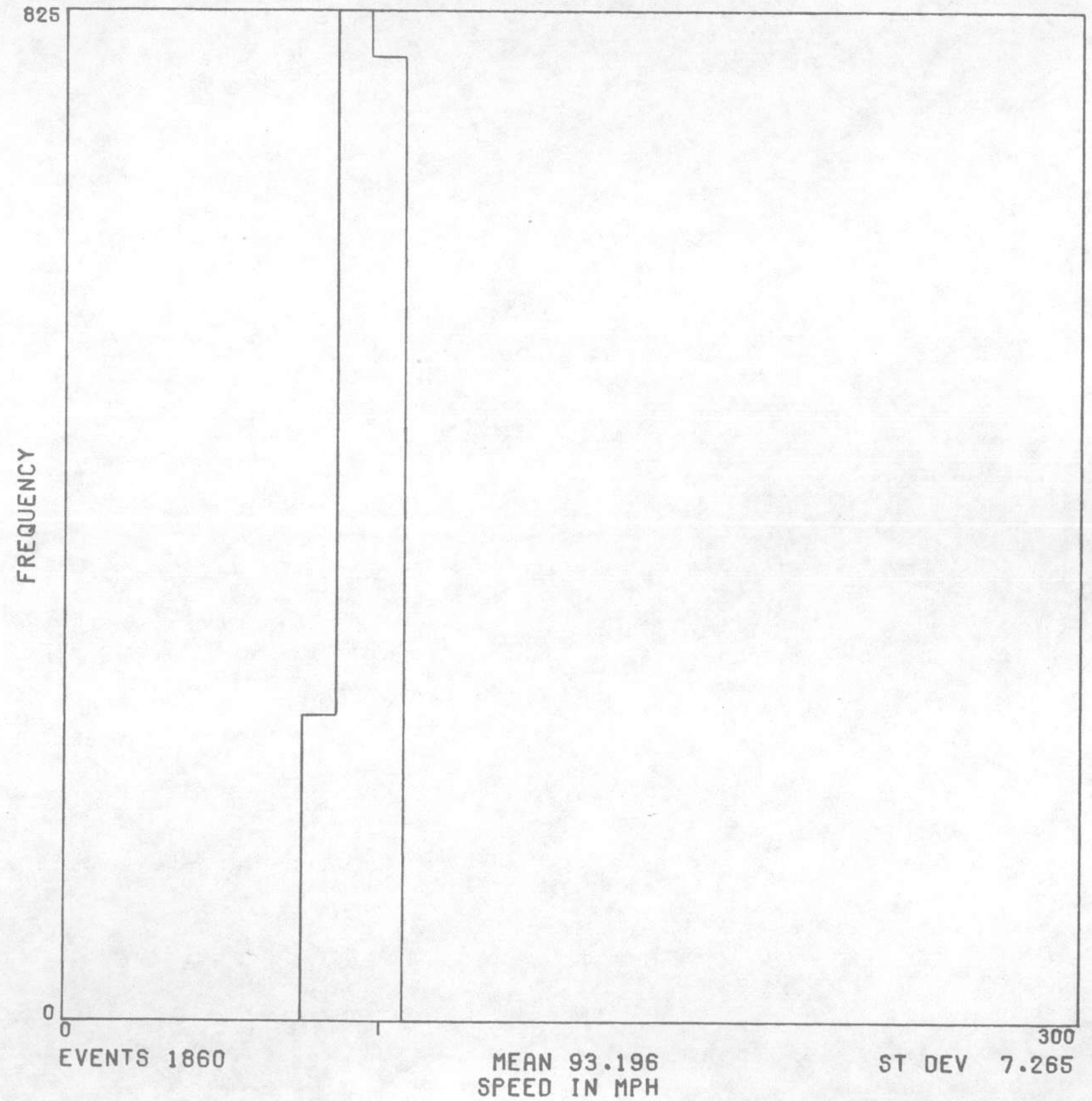
EVENTS 1860
MEAN 349.065
ALTITUDE IN FEET
ST DEV 50.235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FREQUENCY
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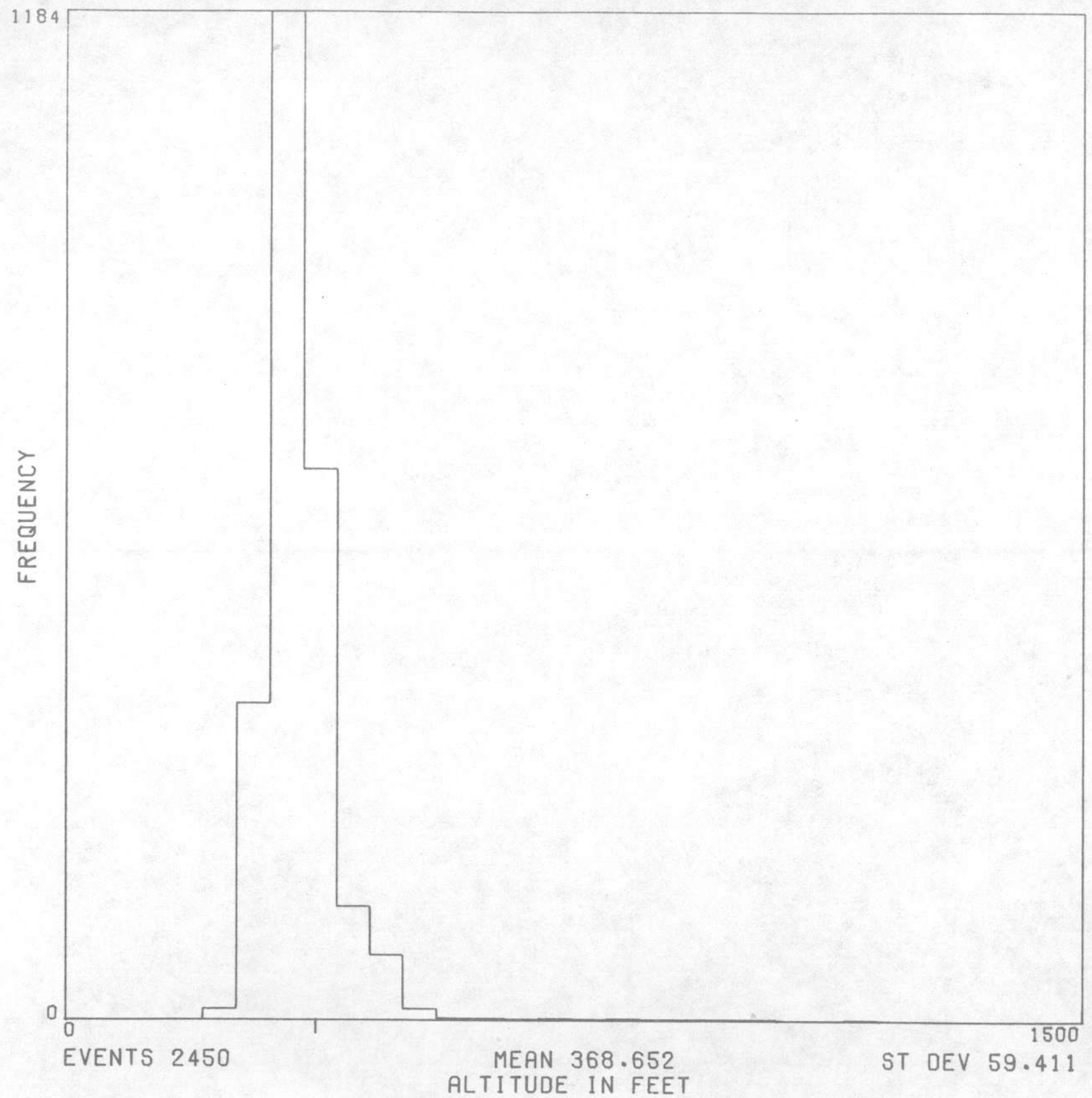
EVENTS 1860
MEAN 93.196
SPEED IN MPH
ST DEV 7.265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FREQUENCY
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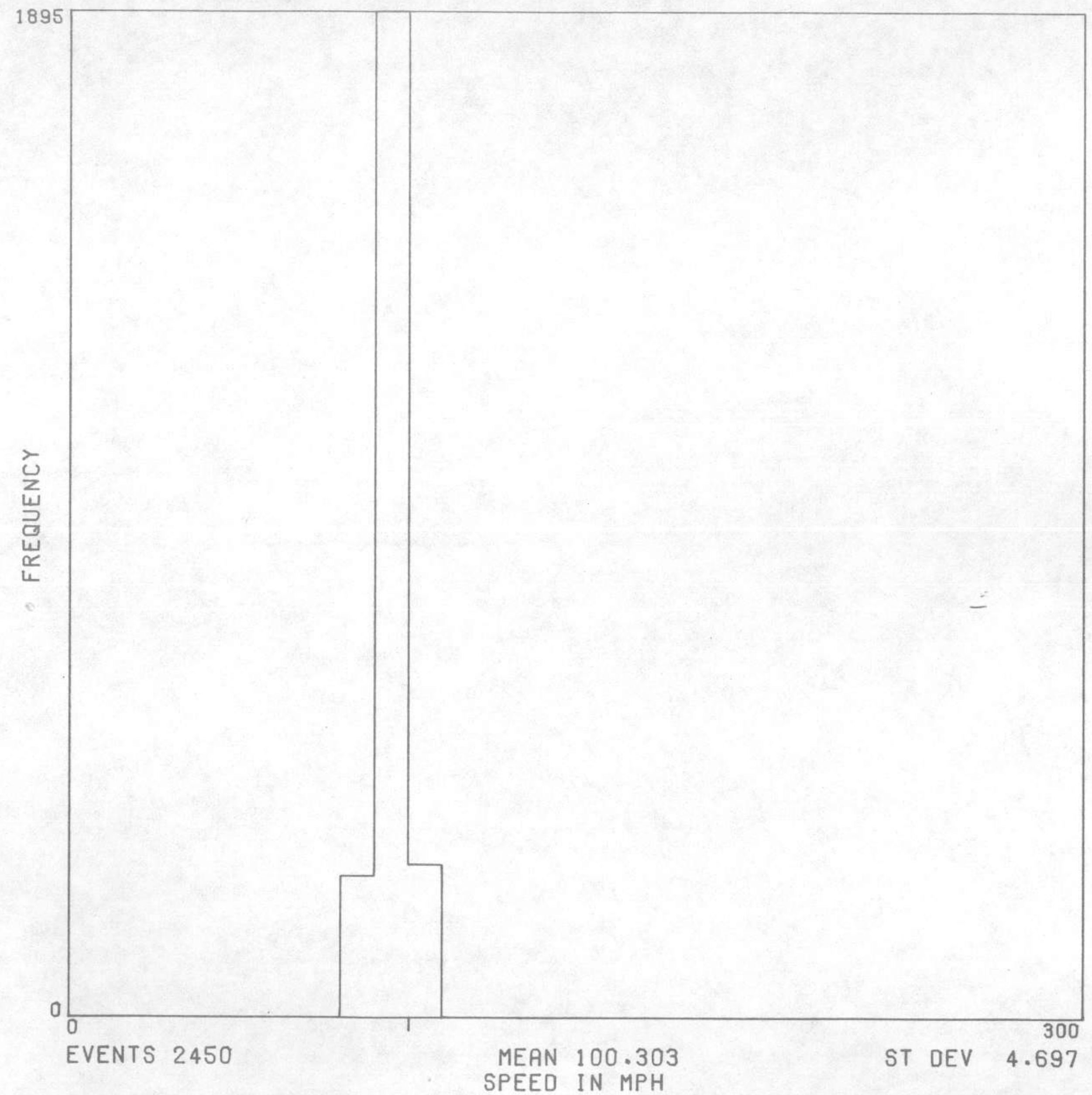
EVENTS 2450
MEAN 368.652
ALTITUDE IN FEET
ST DEV 59.411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EVENTS 2450
MEAN 100.303
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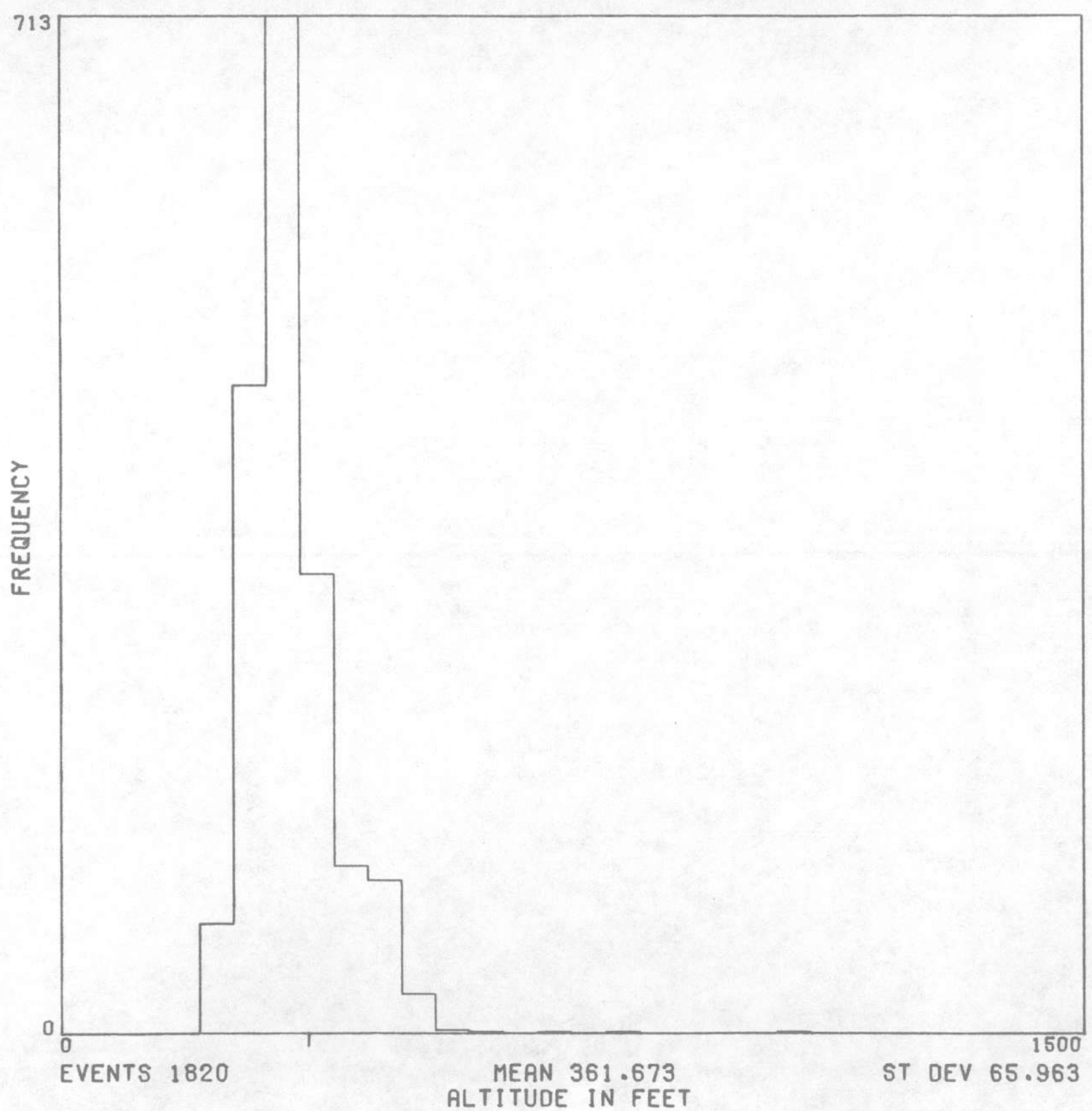
713
FREQUENCY
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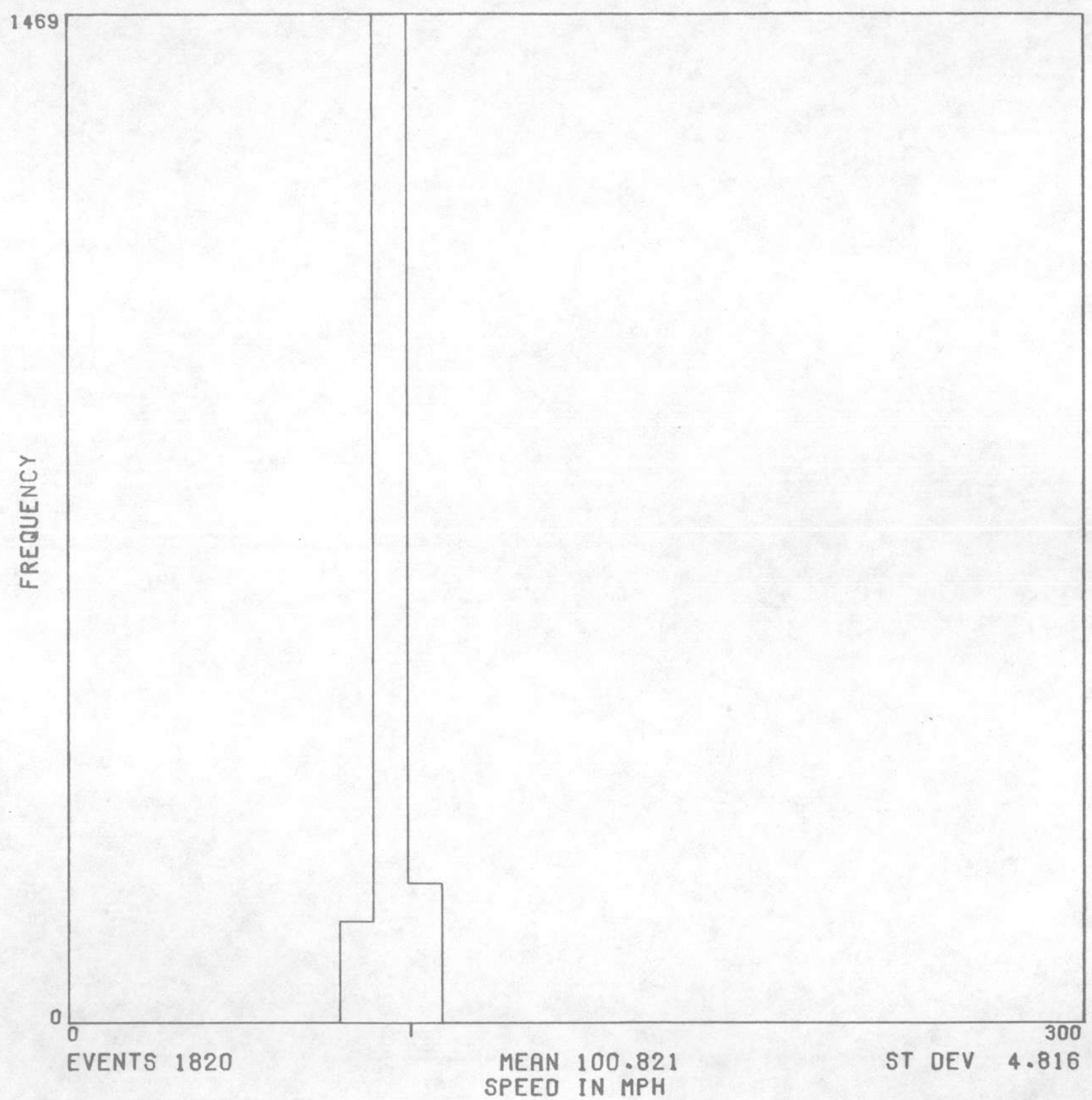
0
1500
EVENTS 1820
MEAN 361.673
ST DEV 65.963
ALTITUDE IN FEET


1469
FREQUENCY
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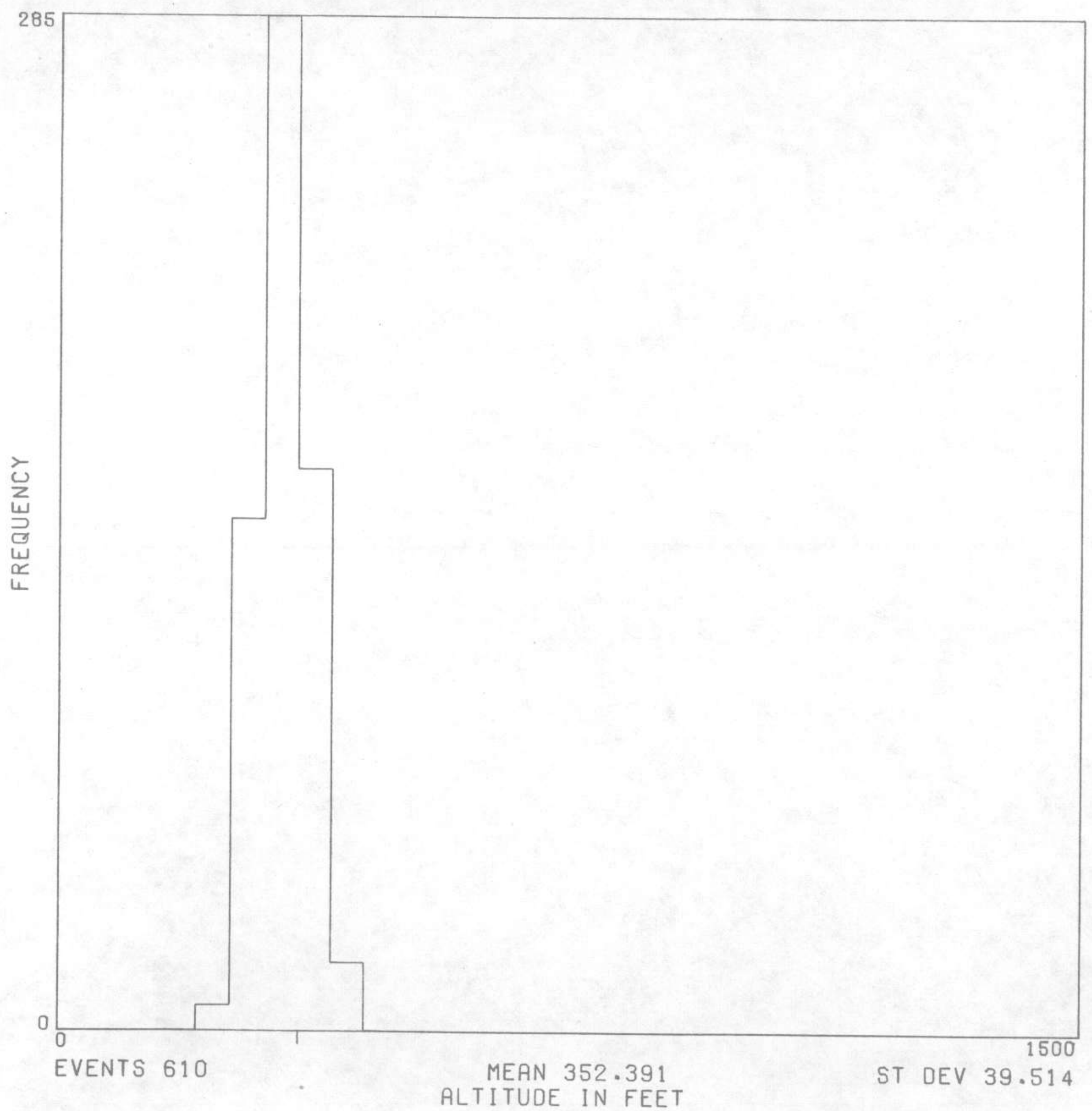
0
300
EVENTS 1820
MEAN 100.821
ST DEV 4.816
SPEED IN MPH



285
FREQUENCY
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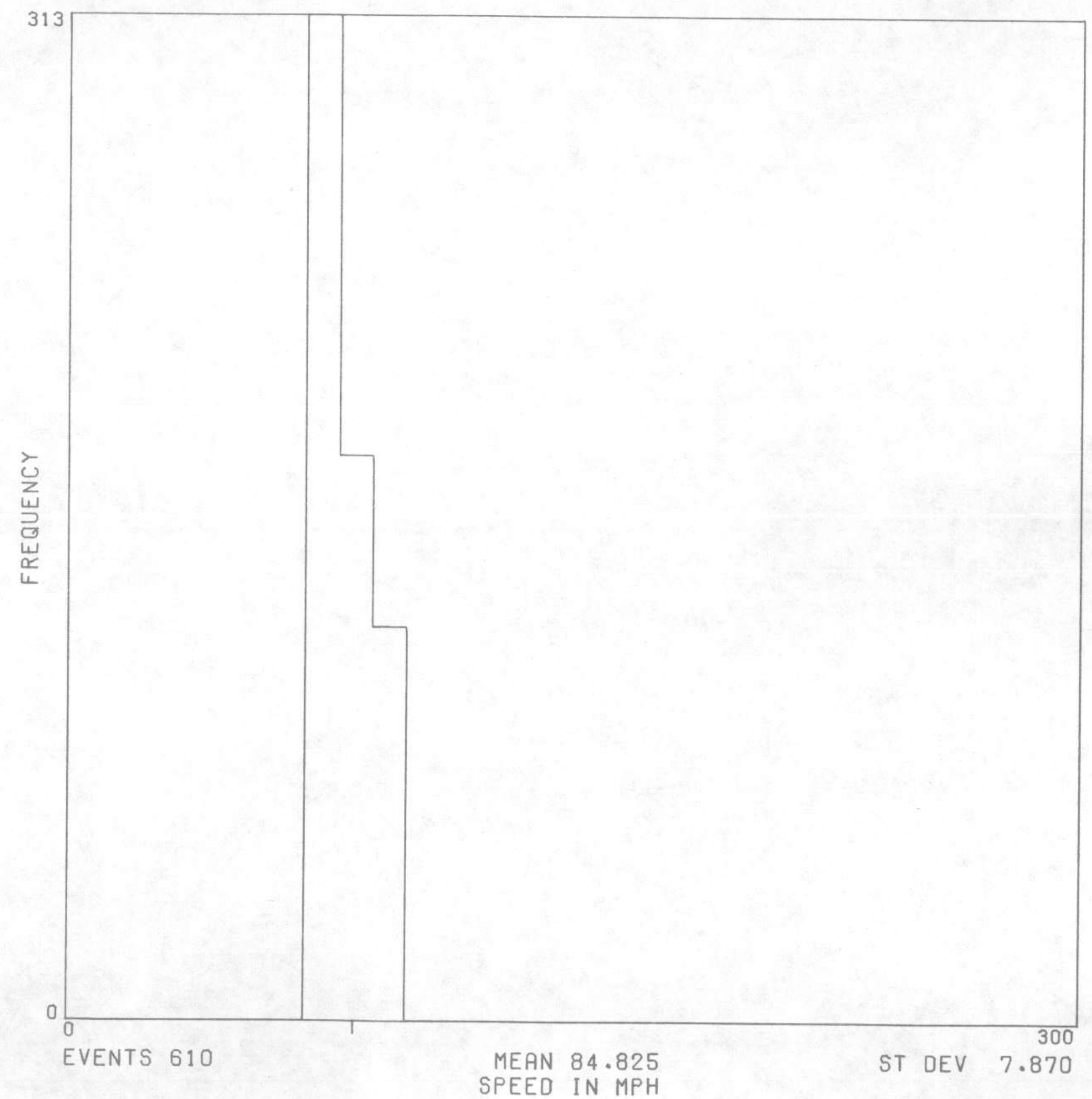
0
1500
EVENTS 610
MEAN 352.391
ST DEV 39.514
ALTITUDE IN FEET



313
FREQUENCY
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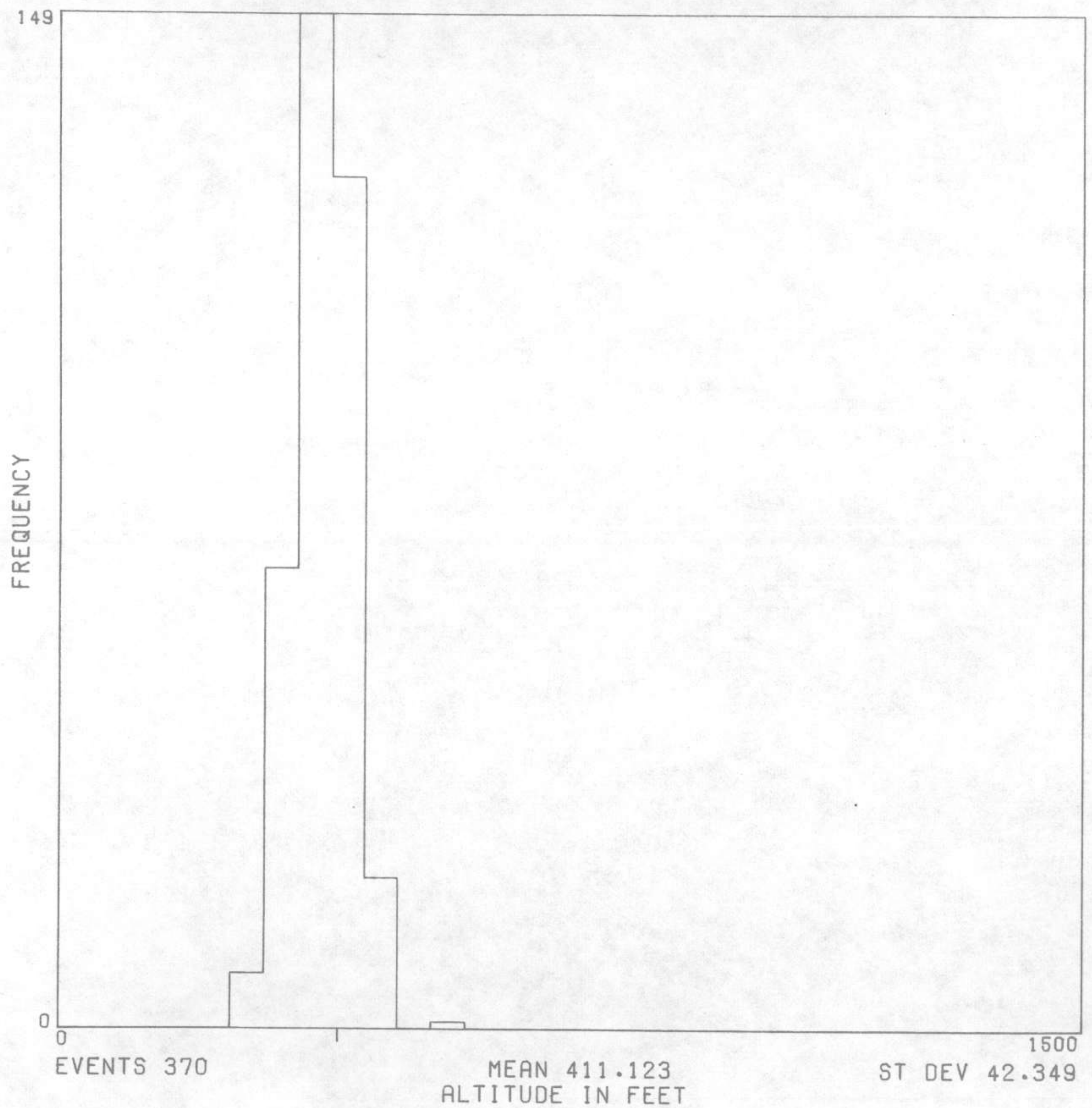
EVENTS 610
MEAN 84.825
ST DEV 7.870
SPEED IN MPH



149
FREQUENCY
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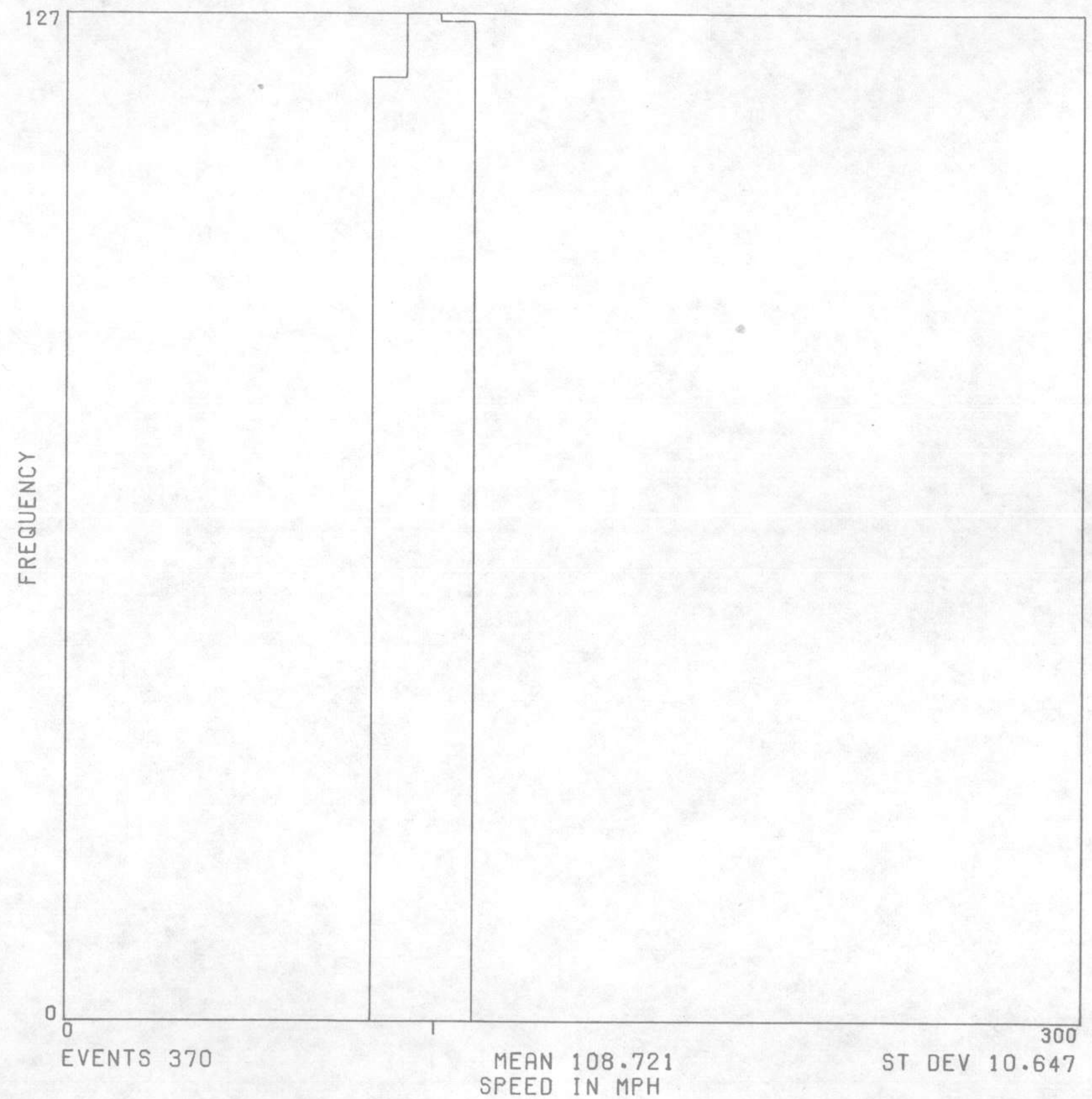
1500
EVENTS 370
MEAN 411.123
ALTITUDE IN FEET
ST DEV 42.349



127
FREQUENCY
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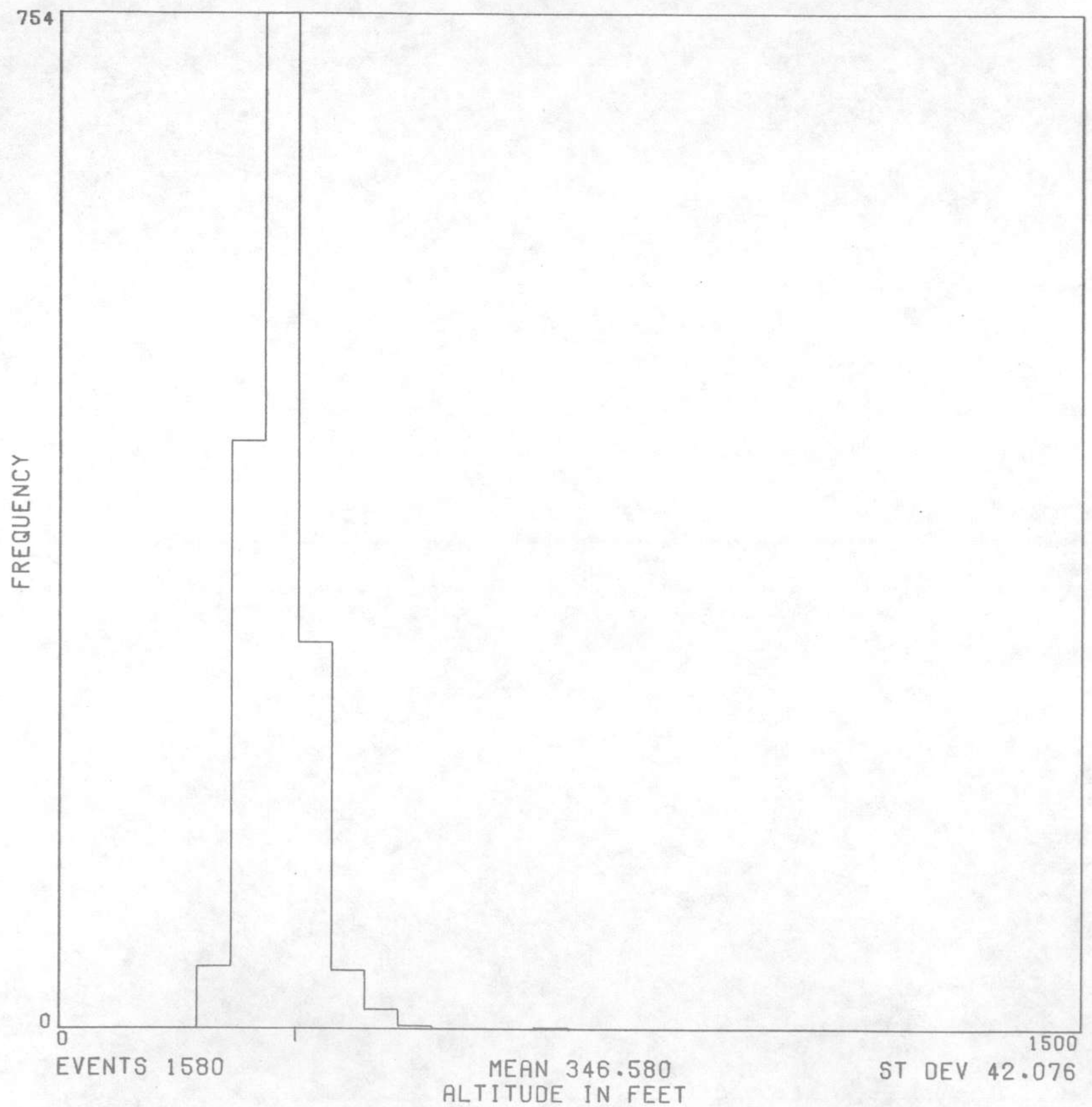
0
300
EVENTS 370
MEAN 108.721
SPEED IN MPH
ST DEV 10.647


754
FREQUENCY
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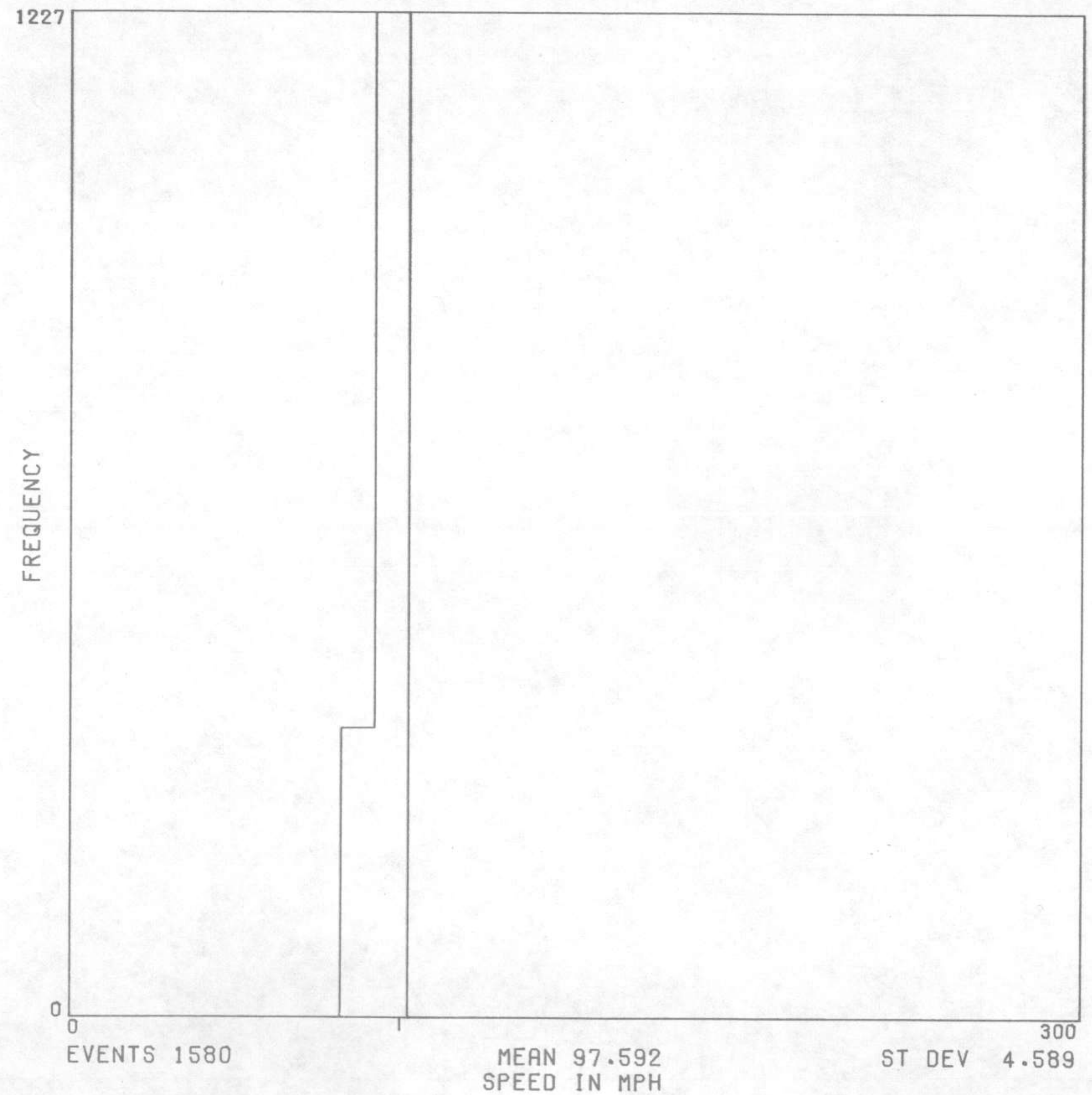
0
1500
EVENTS 1580
MEAN 346.580
ST DEV 42.076
ALTITUDE IN FEET


1227
FREQUENCY
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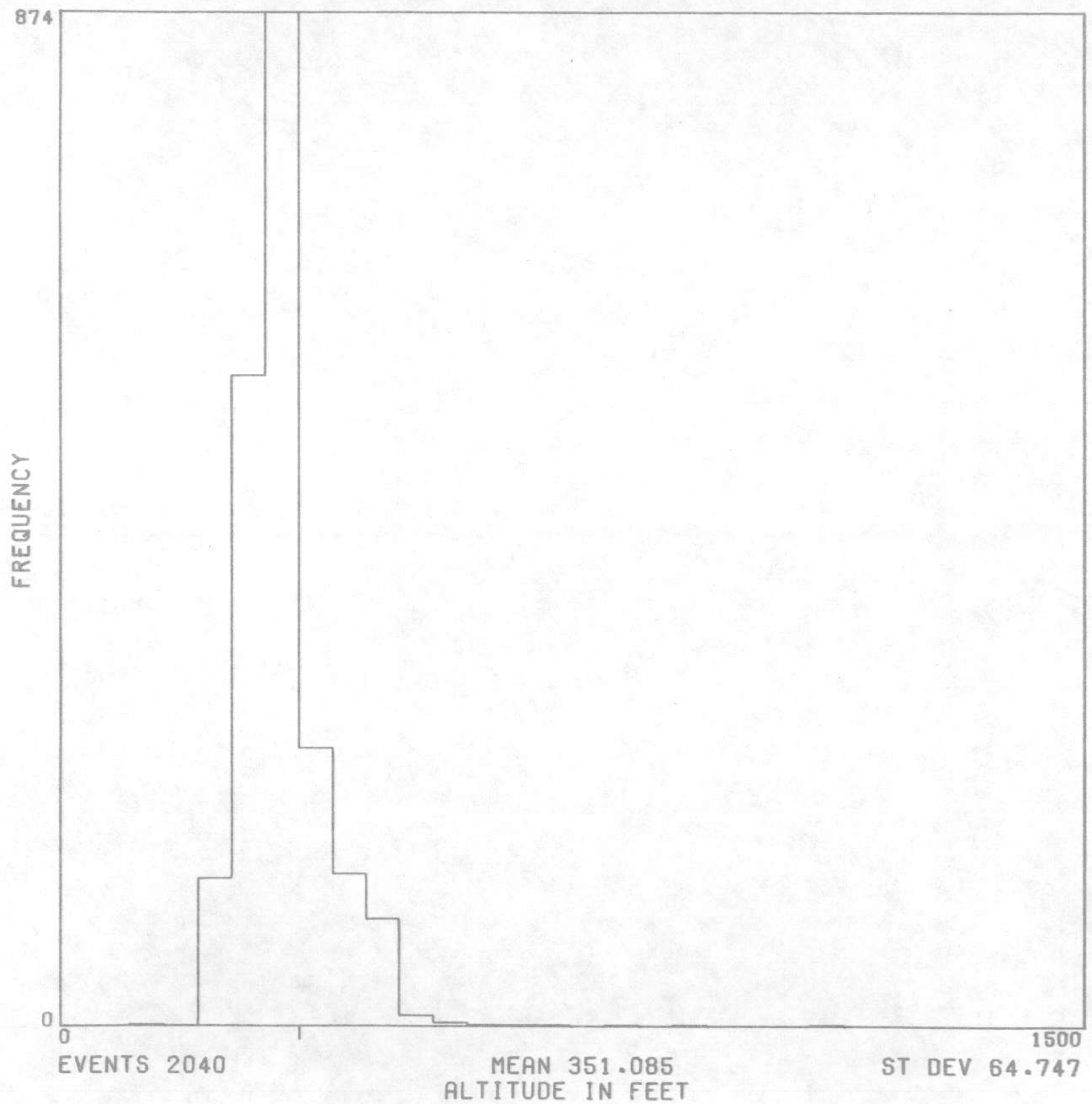
0
300
EVENTS 1580
MEAN 97.592
ST DEV 4.589
SPEED IN MPH


874
FREQUENCY
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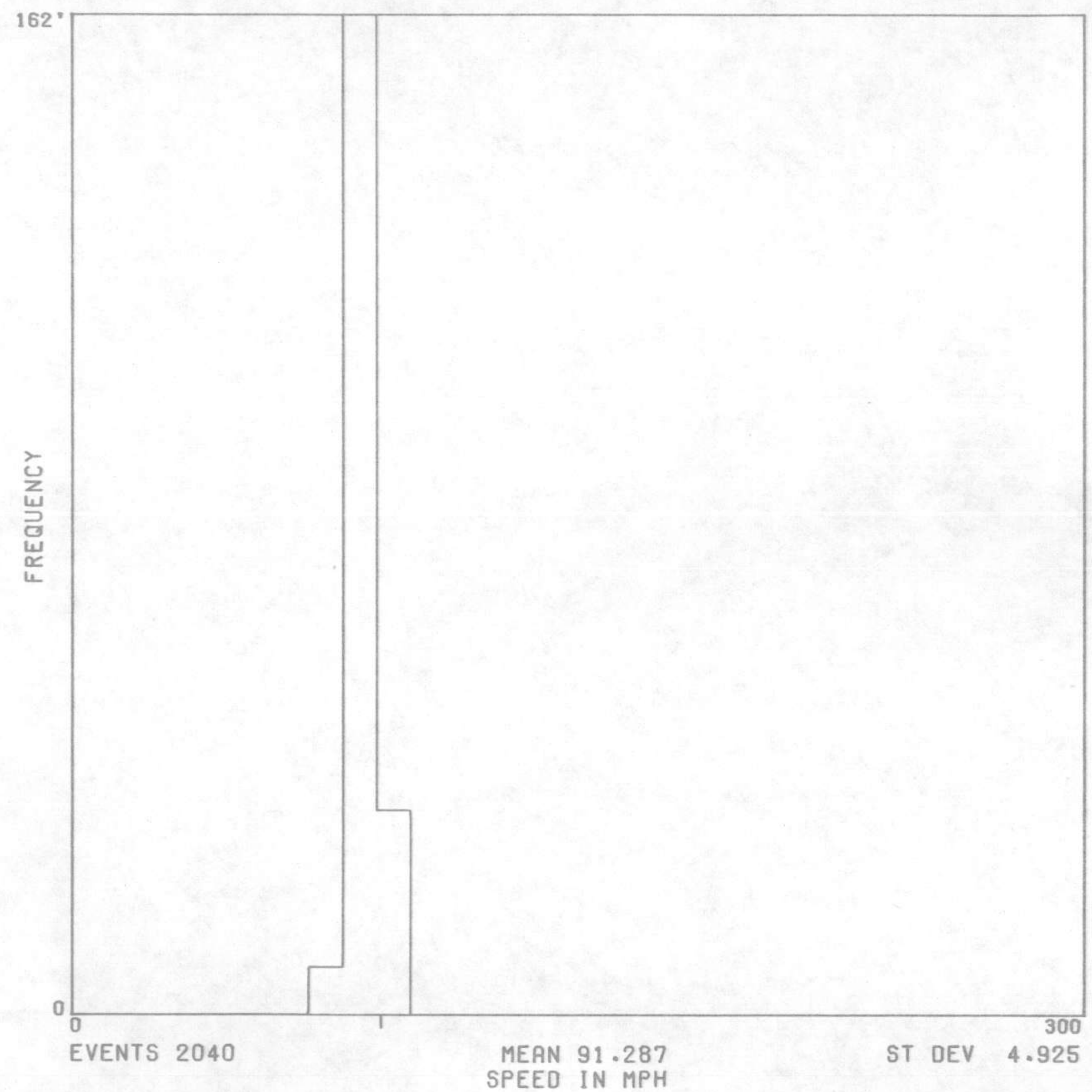
0
1500
EVENTS 2040
MEAN 351.085
ST DEV 64.747
ALTITUDE IN FEET


162
FREQUENCY
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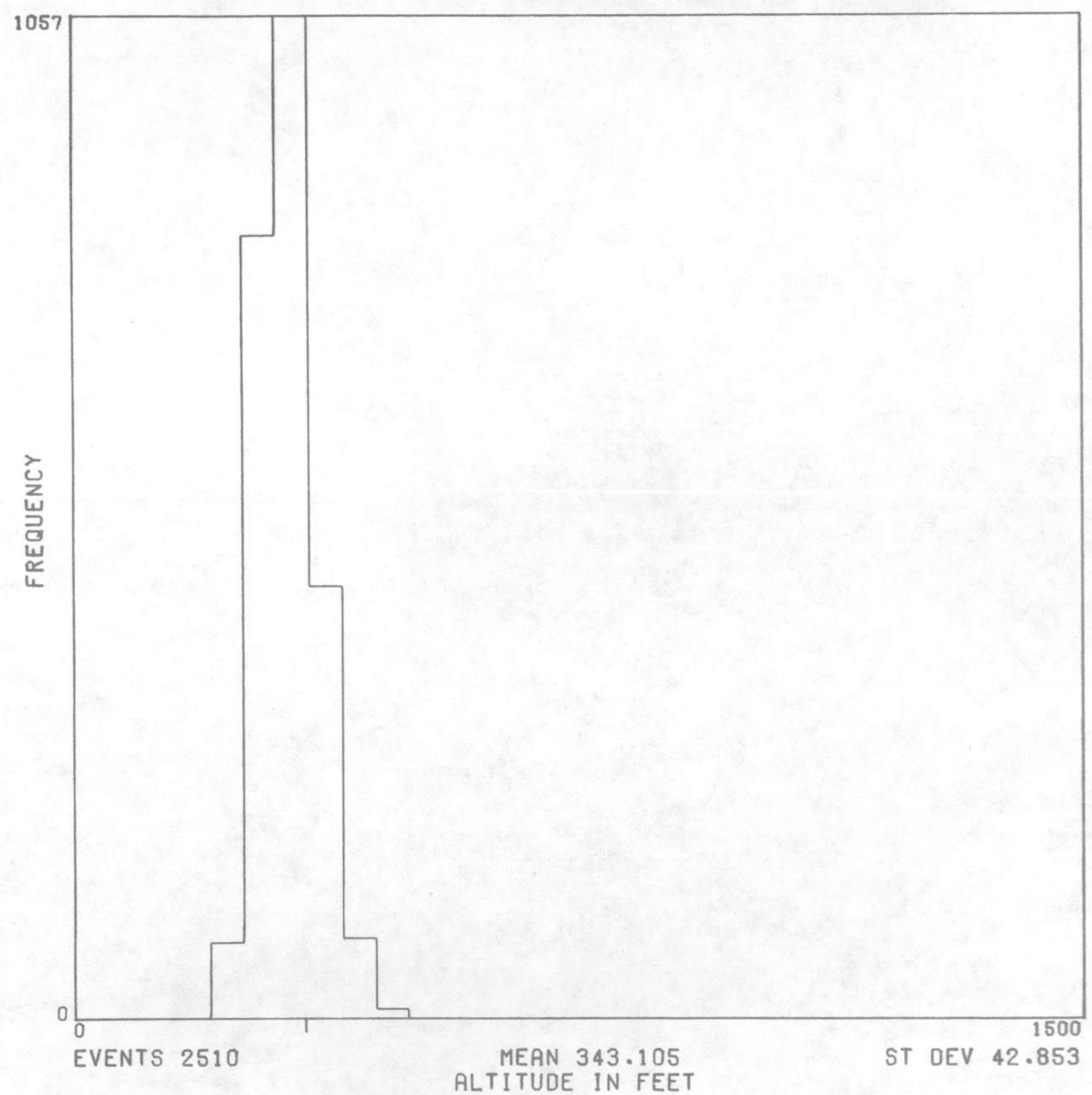
0
300
EVENTS 2040
MEAN 91.287
ST DEV 4.925
SPEED IN MPH


1057
FREQUENCY
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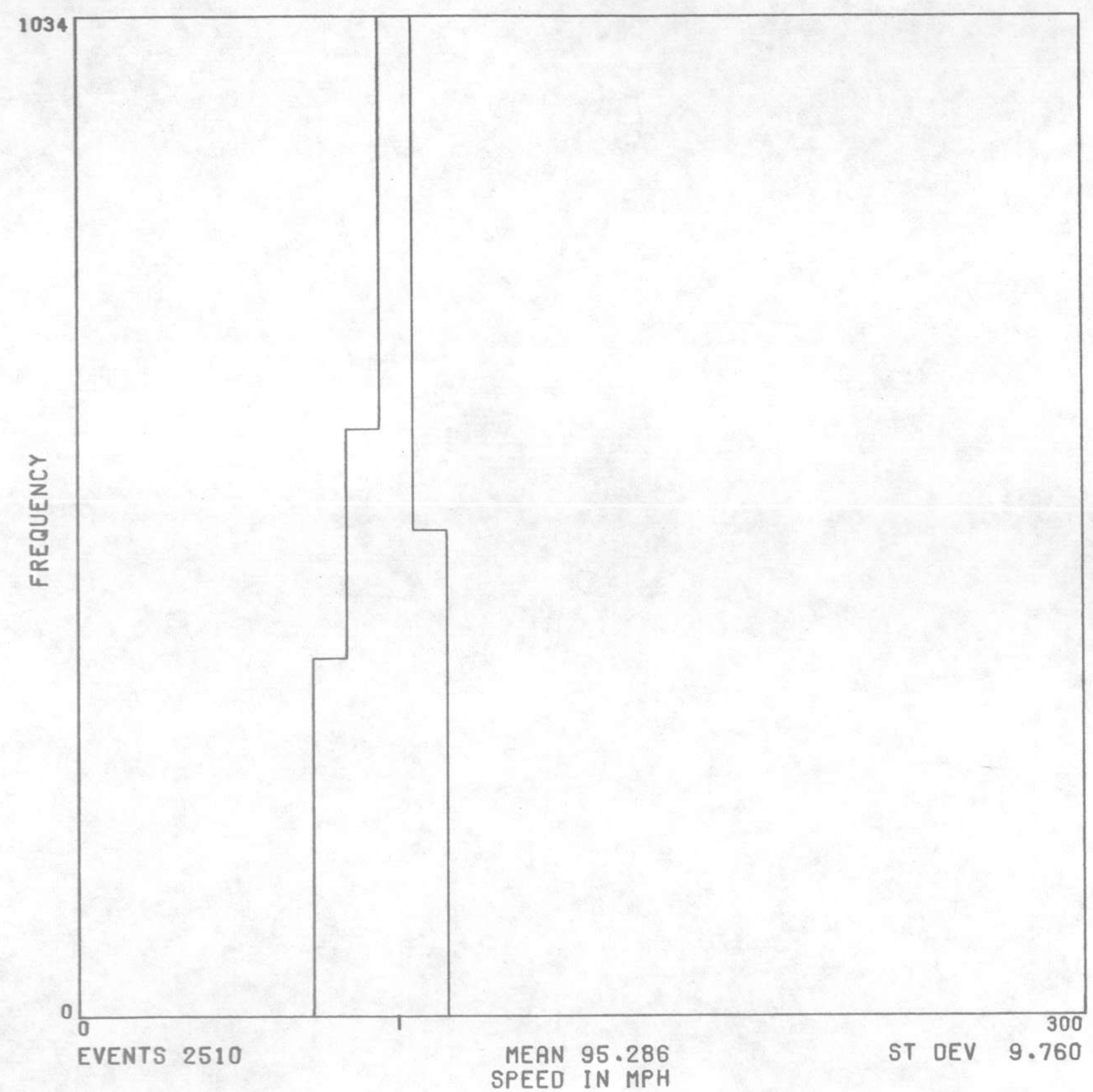
0
1500
EVENTS 2510
MEAN 343.105
ST DEV 42.853
ALTITUDE IN FEET


1034
FREQUENCY
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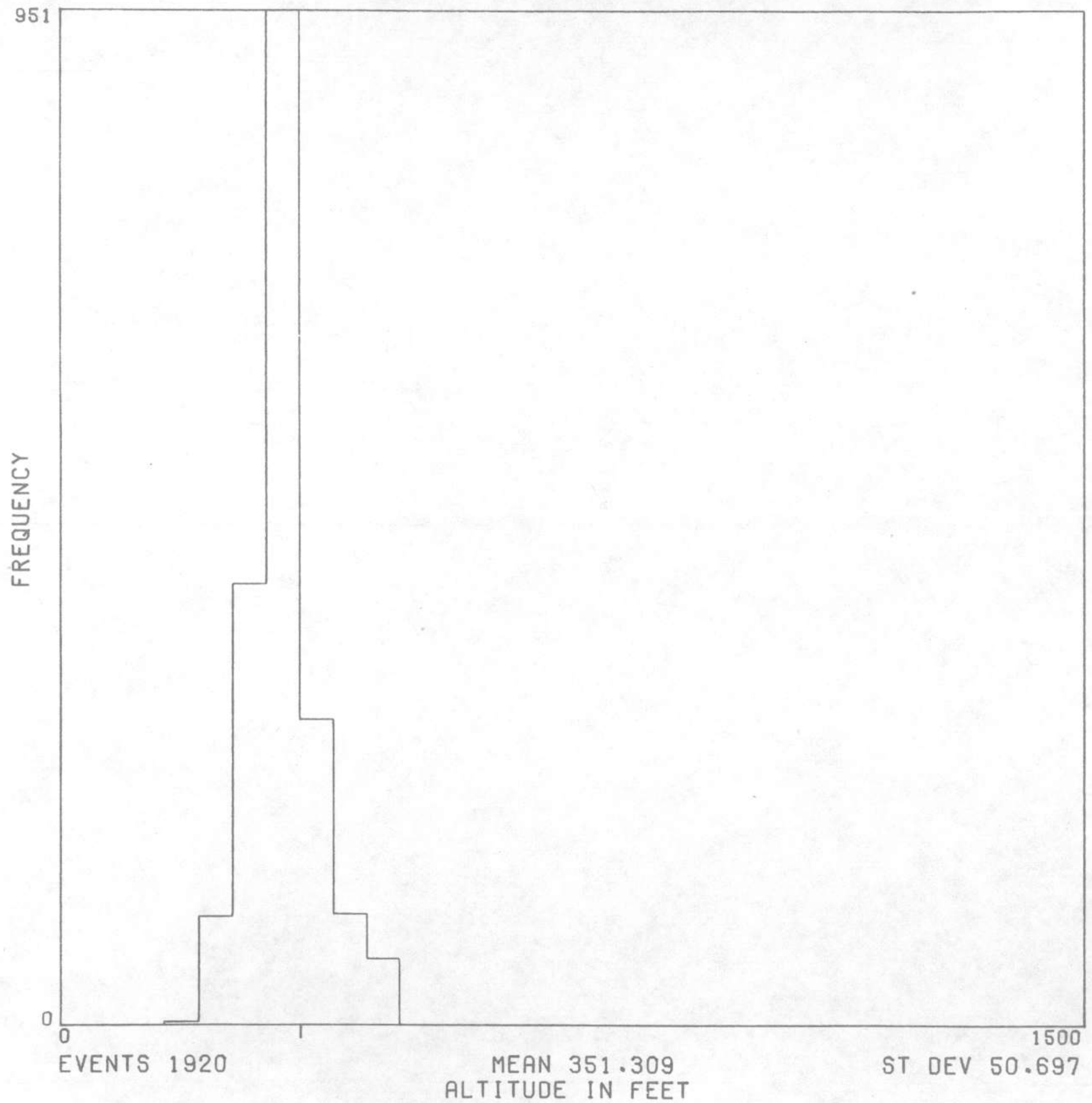
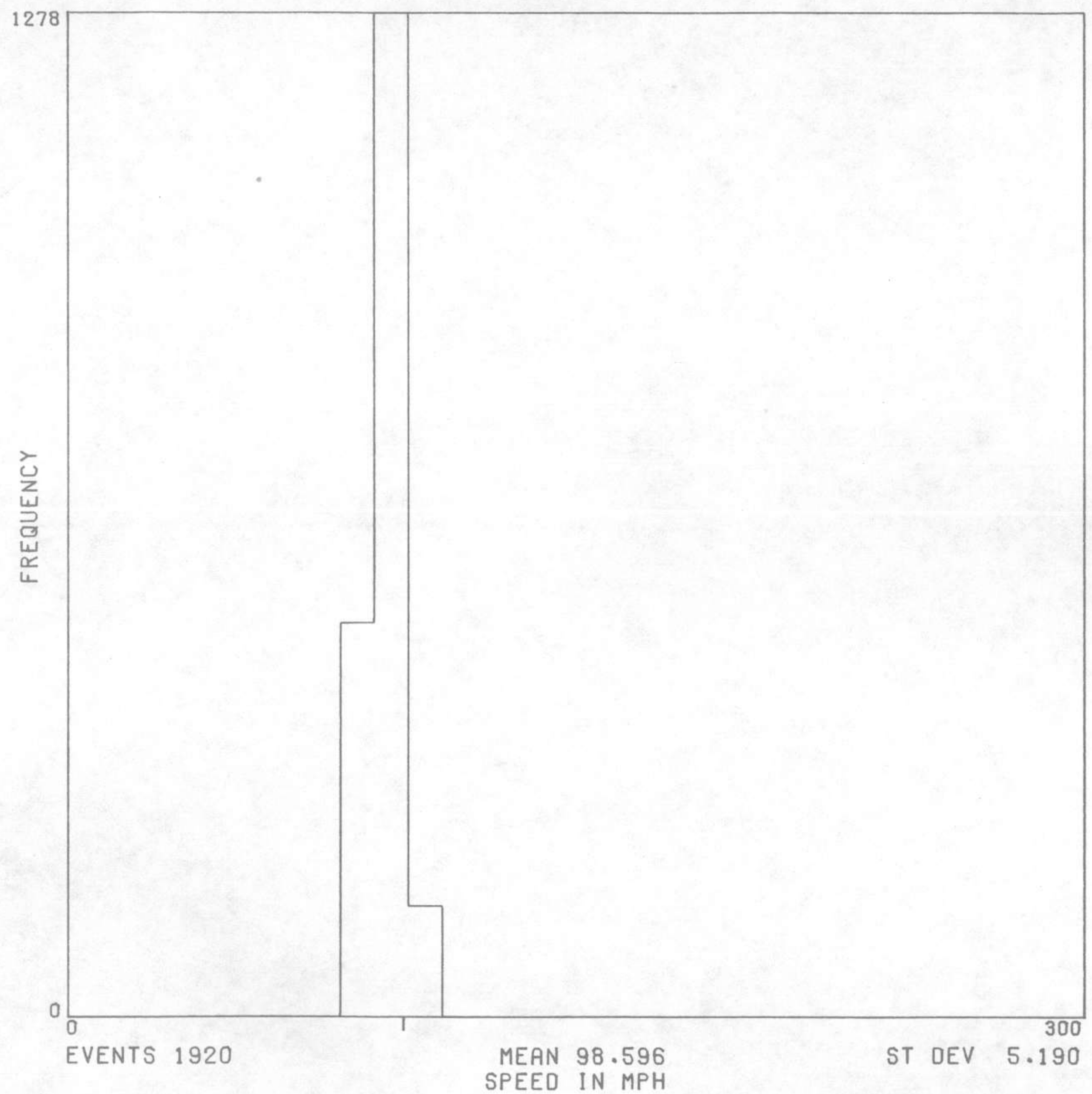
0
300
EVENTS 2510
MEAN 95.286
ST DEV 9.760
SPEED IN MPH



951
FREQUENCY
0
0
1500
EVENTS 1920
MEAN 351.309
ST DEV 50.697
ALTITUDE IN FEET



1278
FREQUENCY
0
0
300
EVENTS 1920
MEAN 98.596
ST DEV 5.190
SPEED IN MPH

APPENDIX J - STATISTICAL TABLES

UNIT	ETH MEAN	ETH ST.DEV.	ETH EVENTS	EU MEAN	EU ST.DEV.	EU EVENTS	K MEAN	K ST.DEV.	K EVENTS	EU/ETH MEAN	EU/ETH ST.DEV.	EU/ETH EVENTS	EU/K MEAN	EU/K ST.DEV.	EU/K EVENTS	ETH/K MEAN	ETH/K ST.DEV.	ETH/K EVENTS
AA	7.82	2.64	1455	2.82	.97	1492	.90	.40	1494	.39	.16	1492	3.71	1.99	1491	10.00	4.20	1494
CC	6.02	1.72	3874	2.37	.74	3855	.42	.27	3831	.41	.14	3852	7.23	4.28	3810	17.50	7.88	3828
CCW	6.93	1.08	105	2.61	.52	105	.83	.21	105	.39	.10	105	3.37	1.30	105	8.89	2.85	105
CKT	6.13	1.92	754	2.78	.90	753	.45	.29	752	.48	.16	753	7.89	4.75	751	16.69	8.04	752
COK	5.13	1.02	250	2.15	.55	250	.29	.09	247	.44	.17	250	8.55	4.76	247	19.58	7.39	247
CR	6.91	1.53	788	2.55	.72	786	1.11	.63	788	.38	.12	786	3.27	2.31	786	8.26	4.62	788
CS	6.47	.54	10	2.49	.59	10	.54	.12	10	.39	.12	10	5.10	2.83	10	12.38	2.77	10
CW	6.80	1.31	338	2.48	.63	338	.64	.36	338	.37	.11	338	4.97	2.94	338	13.13	6.14	338
DC	4.63	1.82	100	2.04	.78	100	.30	.13	96	.46	.15	100	7.94	5.19	96	17.54	8.66	96
DCFM	4.35	.77	30	1.98	.27	30	.33	.14	30	.48	.14	30	7.77	4.98	30	16.41	9.62	30
DFM	5.32	1.08	88	1.90	.52	87	.53	.22	88	.36	.10	87	4.37	2.88	87	11.92	5.77	88
HS	3.78	2.23	464	1.75	.86	451	.43	.33	425	.55	.30	450	5.98	3.75	412	11.86	5.45	425
KCK	4.59	1.15	12823	1.90	.56	12637	.35	.16	12770	.44	.16	12637	6.46	3.60	12583	14.84	5.89	12769
KE	4.97	1.20	515	1.87	.61	504	.35	.10	501	.40	.18	503	6.15	3.81	491	15.63	6.15	501
KG	4.18	1.06	6591	1.86	.54	6500	.27	.08	6512	.46	.17	6500	7.83	3.90	6424	17.03	6.23	6512
KM	5.42	1.02	834	1.87	.52	834	.38	.11	834	.36	.12	834	5.50	2.66	834	15.38	4.73	834
KT	4.62	1.16	901	1.76	.58	881	.32	.16	897	.40	.16	881	6.96	4.50	877	16.88	7.24	897
MB	4.29	1.44	1133	1.92	.71	1080	.35	.14	1125	.47	.19	1080	6.35	3.66	1072	13.51	5.75	1125
MDA	7.59	2.99	78	2.11	.74	77	.41	.17	78	.32	.14	77	6.04	3.29	77	20.35	7.89	78
MF	4.93	1.28	6575	1.95	.62	6470	.44	.21	6550	.42	.17	6465	5.29	3.19	6435	12.67	5.21	6541
MFM	4.42	1.52	577	2.06	.67	570	.36	.17	555	.51	.23	570	7.29	4.56	548	14.74	7.37	555
MFP	4.78	1.52	315	1.95	.59	309	.46	.31	309	.45	.21	309	5.78	3.50	303	13.20	6.13	309
MHS	4.05	1.55	821	1.96	.67	790	.29	.11	802	.53	.25	790	7.74	4.28	768	15.11	6.46	799
MP	4.78	1.28	1872	1.93	.62	1827	.47	.19	1868	.43	.17	1827	4.71	2.44	1823	11.24	4.16	1868
MPM	4.36	1.55	68	2.08	.74	68	.26	.10	63	.52	.24	68	9.02	4.99	63	18.45	6.95	63
MPP	4.13	1.26	337	1.76	.59	334	.38	.22	337	.45	.16	334	5.85	3.61	334	12.92	4.87	337
MTM	5.09	1.88	588	2.05	.64	576	.35	.17	588	.44	.18	576	7.06	4.15	576	16.48	7.34	588
OC	5.73	1.84	634	2.32	.81	632	.42	.18	625	.43	.16	632	6.51	3.50	624	15.81	7.44	625
OCA	3.36	.82	12	1.62	.61	12	.24	.06	12	.52	.24	12	7.22	3.67	12	14.22	3.86	12
OCB	3.77	.87	74	1.69	.34	74	.17	.05	60	.48	.17	74	10.46	4.06	60	23.68	7.36	60
OCBF	6.12	1.63	219	2.37	.57	219	.32	.12	213	.41	.15	219	8.74	4.94	213	21.54	8.30	213
OCBK	4.11	.63	22	1.69	.35	22	.42	.14	22	.43	.14	22	5.53	5.03	22	11.76	6.74	22
OCC	4.33	1.95	312	1.99	.63	317	.32	.24	303	.55	.29	312	9.40	6.24	303	17.51	7.65	301
OCCR	3.87	1.15	538	1.85	.61	536	.21	.09	508	.51	.21	532	10.24	5.29	502	21.14	8.58	507
OCK	4.76	1.61	2528	2.16	.71	2514	.31	.20	2491	.49	.19	2514	8.48	4.36	2477	17.90	7.22	2491
OCU	5.18	1.85	6451	2.24	.70	6408	.36	.28	6223	.47	.19	6396	8.47	5.03	6165	18.35	8.37	6210
OLM	4.58	1.35	598	2.01	.68	582	.38	.18	592	.46	.18	582	6.47	4.04	576	14.00	6.24	592
OLV	3.97	.87	153	1.83	.58	153	.23	.14	145	.48	.18	153	9.56	4.54	145	20.67	7.33	145
ONL	4.75	1.53	1789	2.13	.71	1778	.33	.21	1752	.48	.19	1769	8.32	4.80	1727	17.63	7.86	1745
OU	5.49	1.42	106	2.59	.65	106	.33	.11	102	.49	.15	106	8.67	4.43	102	17.83	5.69	102
PBR	5.35	1.50	1480	2.05	.59	1463	.62	.36	1485	.41	.16	1456	4.46	2.84	1457	10.67	4.70	1477
PBY	4.23	1.47	3452	1.89	.59	3395	.40	.26	3437	.48	.18	3393	6.19	3.59	3375	12.83	5.22	3431
PCN	5.50	.84	221	2.07	.56	219	.73	.19	221	.39	.13	219	3.09	1.30	219	8.08	2.42	221
PGR	5.05	.80	11	3.10	.51	11	.80	.05	11	.64	.19	11	3.88	.55	11	6.32	.92	11
PLC	5.87	1.47	313	2.36	.75	305	.84	.37	313	.42	.15	305	3.21	1.52	305	7.73	2.42	313
PMC	4.36	.64	20	1.19	.28	16	.36	.07	20	.27	.05	16	3.42	.78	16	12.35	2.09	20
PPI	3.36	1.33	160	1.51	.49	146	.32	.19	157	.48	.22	146	5.85	3.11	143	12.01	4.35	157
PPS	3.67	1.12	314	1.67	.56	306	.30	.14	308	.48	.20	306	6.66	3.86	300	14.11	6.48	308
PSN	5.20	1.25	124	2.20	.66	124	.80	.25	124	.44	.14	124	2.96	1.17	124	6.70	1.08	124
PSR	4.29	.53	34	1.66	.43	34	.42	.10	34	.39	.12	34	4.19	1.76	34	10.69	2.56	34
PVP	5.58	1.60	43330	2.16	.66	42816	.73	.37	43296	.41	.15	42786	3.76	2.37	42726	9.11	4.00	43253
PWR	3.18	.91	71	1.44	.57	64	.32	.11	71	.50	.26	64	5.44	3.93	64	10.71	3.26	71
QAL	4.84	1.63	7623	1.96	.66	7471	.51	.32	7617	.43	.18	7367	4.94	3.02	7350	11.36	5.11	7566
QT	4.34	1.07	1476	1.86	.57	1453	.32	.13	1473	.45	.16	1453	6.72	3.69	1450	14.97	5.79	1473

SC	5.01	1.35	133	2.25	.91	133	.44	.19	133	.47	.18	133	5.91	2.89	133	13.02	5.52	133
SRM	5.79	1.98	426	2.24	.73	424	.37	.16	417	.42	.17	424	7.07	3.73	415	17.42	7.20	417
TA	7.18	2.35	6496	2.22	.69	6448	1.06	.50	6485	.33	.13	6448	2.77	2.10	6437	8.12	4.15	6485
TB	9.43	1.70	56	2.42	.44	56	1.50	.23	56	.27	.08	56	1.66	.42	56	6.38	1.09	56
TCA	3.70	.73	150	1.46	.46	142	.30	.13	144	.41	.16	142	5.90	3.90	136	14.69	7.14	144
TFS	9.97	.95	71	2.50	.53	71	1.74	.23	71	.26	.07	71	1.46	.35	71	5.78	.73	71
TJ	9.46	.55	10	2.37	.89	10	1.37	.23	10	.25	.10	10	1.86	.95	10	7.01	.93	10
TS	9.44	1.24	39	2.46	.71	39	1.39	.30	39	.26	.07	39	1.90	.92	39	7.05	1.65	39
TSC	6.77	1.75	595	2.26	.65	595	.93	.42	594	.35	.13	595	3.18	2.26	594	8.65	4.11	594
TSS	8.15	.92	9	3.02	.48	9	.90	.10	9	.38	.09	9	3.40	.58	9	9.16	1.13	9
WA	3.95	1.90	1258	1.75	.74	1233	.34	.28	1232	.49	.24	1111	7.30	4.80	1054	15.63	9.31	1156

	AA	CC	CCW	CKT	COK	CR	CS	CW	DC	DCFM	DFM	HS	KCK	KE	KG
1	3.03	1.96	2.49	1.98	.00	1.73	.00	.00	.00	.00	.00	2.96	1.76	1.44	1.81
2	3.24	2.31	2.77	.00	.00	2.77	.00	.00	.00	1.98	.00	1.63	1.59	1.51	1.84
3	2.01	2.23	2.39	.00	1.63	1.77	.00	.00	.00	1.99	.00	1.69	1.56	.00	1.48
4	.00	.00	.00	2.32	2.24	.00	.00	.00	.00	.00	.00	1.44	1.76	1.78	1.79
5	.00	2.53	.00	1.86	2.74	2.89	2.49	2.55	.00	.00	.00	.00	2.08	2.01	2.02
6	3.01	2.68	.00	2.21	.00	2.17	.00	.00	.00	.00	.00	1.66	1.80	1.76	2.05
7	.00	2.23	.00	2.51	.00	2.12	.00	.00	.00	.00	.00	1.66	1.78	.00	2.00
8	.00	2.57	.00	1.66	.00	3.64	.00	.00	.00	.00	.00	.00	1.93	.00	1.98
9	.00	3.00	.00	2.26	.00	2.94	.00	.00	.00	.00	.00	.00	1.90	.00	1.85
10	.00	2.69	.00	1.53	.00	2.72	.00	2.35	.00	.00	.00	.00	1.80	.00	1.82
11	.00	2.33	.00	2.50	.00	3.36	.00	2.69	.00	.00	.00	.00	2.02	.00	1.88
12	.00	3.15	.00	3.58	.00	2.31	.00	2.43	.00	.00	1.30	.00	2.02	.00	1.76
13	.00	3.25	.00	3.15	.00	2.37	.00	.00	.00	.00	2.05	.00	1.89	.00	1.73
14	.00	2.35	.00	2.64	.00	1.92	.00	.00	.00	.00	1.33	.00	2.52	.00	1.97
15	.00	3.41	.00	2.97	.00	1.56	.00	.00	.00	.00	2.15	.00	2.08	.00	1.90
16	.00	.00	.00	2.43	.00	1.89	.00	.00	.00	.00	1.89	.00	1.93	.00	1.96
17	.00	1.68	.00	.00	.00	2.23	.00	.00	.00	.00	2.23	.00	1.95	.00	1.64
18	.00	2.30	.00	.00	.00	2.55	.00	.00	1.89	.00	1.88	.00	1.73	.00	1.57
19	.00	2.34	.00	1.57	.00	1.93	.00	.00	2.69	.00	1.42	.00	1.77	.00	1.29
20	.00	2.21	.00	2.25	.00	2.27	.00	.00	2.20	.00	1.94	.00	2.01	.00	1.86
21	.00	1.58	.00	2.56	.00	1.92	.00	.00	2.11	.00	.00	.00	1.92	.00	1.90
22	.00	2.14	.00	2.88	.00	.00	.00	.00	3.12	.00	.00	.00	1.93	.00	1.65
23	.00	2.22	.00	.00	.00	.00	.00	.00	1.63	.00	.00	.00	2.01	.00	1.79
101	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.81	1.94	1.90
102	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.10	.00	1.64
103	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.68	.00	.00
104	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.86	.00	.00
105	.00	2.04	.00	.00	2.25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
106	.00	3.43	.00	3.15	.00	2.48	.00	.00	.00	.00	.00	.00	.00	.00	.00
107	.00	3.10	.00	2.40	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
108	.00	2.60	.00	1.53	.00	2.09	.00	.00	1.87	.00	.00	.00	.00	.00	.00
109	.00	2.00	.00	.00	.00	2.34	.00	.00	1.46	.00	2.46	1.67	.00	.00	.00
110	2.33	2.37	2.74	.00	.00	2.72	.00	2.21	3.19	.00	1.84	.92	.00	.00	.00

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 10.

Geologic Unit Average Value as a

Function of Map Line for ppm eU

	KM	KT	MB	MDA	MF	MFM	MFP	MHS	MP	MPM	MPP	MTM	OC	OCA	OCB
1	5.61	4.04	.00	.00	5.56	.00	3.31	.00	.00	.00	.00	.00	.00	.00	4.61
2	5.30	4.24	.00	.00	6.15	.00	4.26	.00	3.07	.00	.00	.00	.00	.00	3.96
3	5.45	5.15	.00	.00	4.77	.00	5.11	.00	5.40	.00	.00	2.82	4.88	.00	3.95
4	.00	5.26	.00	.00	5.06	.00	7.67	5.83	4.88	.00	.00	5.59	6.66	.00	.00
5	.00	4.73	.00	.00	5.44	.00	6.42	.00	5.10	.00	.00	3.41	5.31	.00	.00
6	.00	.00	.00	.00	5.00	.00	4.85	.00	4.71	.00	.00	4.74	5.61	.00	.00
7	.00	.00	.00	.00	4.90	.00	4.30	.00	5.05	.00	.00	4.06	4.89	.00	.00
8	.00	.00	.00	.00	5.17	.00	4.43	.00	4.14	.00	.00	5.27	5.71	.00	.00
9	.00	.00	.00	.00	4.77	3.89	.00	.00	4.85	.00	.00	6.87	7.97	.00	.00
10	.00	.00	3.63	6.26	4.99	3.19	3.25	5.88	4.59	.00	3.24	7.41	11.69	.00	.00
11	.00	.00	4.31	12.24	4.72	6.07	.00	5.27	5.04	.00	.00	.00	7.56	.00	.00
12	.00	.00	7.12	6.88	5.45	4.08	.00	6.63	4.65	.00	7.86	.00	7.60	.00	.00
13	.00	.00	4.83	6.54	4.90	5.35	.00	3.53	5.44	7.87	.00	6.95	6.55	.00	.00
14	.00	.00	5.95	3.35	4.51	4.64	.00	4.35	4.91	.00	.00	4.24	7.56	.00	.00
15	.00	.00	5.54	4.42	4.72	4.73	.00	3.98	4.75	4.05	.00	4.58	6.29	3.36	.00
16	.00	.00	5.06	5.52	5.07	4.49	.00	3.94	4.01	.00	.00	4.16	6.40	.00	.00
17	.00	.00	3.71	.00	5.24	4.62	.00	4.21	4.17	3.55	.00	5.46	5.65	.00	.00
18	.00	.00	4.10	.00	3.80	3.53	.00	3.45	.00	.00	3.57	3.91	5.87	.00	.00
19	.00	.00	5.57	.00	4.18	3.18	.00	4.77	.00	.00	4.48	3.51	6.13	.00	.00
20	.00	.00	4.81	.00	4.16	4.76	.00	4.02	.00	.00	4.25	6.07	5.97	.00	.00
21	.00	.00	4.15	.00	.00	2.69	.00	4.47	.00	.00	5.32	5.07	6.67	.00	.00
22	.00	.00	3.29	.00	.00	2.73	1.30	3.34	.00	.00	4.23	6.55	5.81	.00	.00
23	.00	.00	3.76	.00	.00	2.76	.00	3.38	.00	.00	4.02	5.20	4.78	.00	.00
101	5.31	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
102	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
103	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
104	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
105	.00	4.09	.00	.00	4.51	.00	.00	.00	4.24	.00	.00	4.51	4.54	.00	.00
106	.00	.00	4.67	10.86	5.18	.00	.00	4.67	4.91	.00	.00	.00	7.76	.00	2.75
107	.00	.00	3.96	.00	4.93	.00	.00	4.61	4.88	4.29	2.83	4.66	.00	.00	.00
108	.00	.00	3.09	.00	4.46	3.59	3.98	3.44	4.55	.00	3.61	4.02	6.77	.00	.00
109	.00	.00	4.90	.00	5.16	5.28	.00	4.85	.00	.00	3.67	7.67	3.91	.00	.00
110	.00	.00	.00	.00	4.67	4.06	.00	.58	.00	.00	.00	7.08	3.73	.00	.00

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 110.

Geologic Unit Average Value as a
Function of Map Line for ppm eTh

	AA	CC	CCW	CKT	COK	CR	CS	CW	DC	DCFM	DFM	HS	KCK	KE	KG
1	8.63	5.17	6.17	5.28	.00	4.96	.00	.00	.00	.00	.00	4.77	4.45	4.65	4.49
2	8.14	8.06	7.23	.00	.00	7.38	.00	.00	.00	4.02	.00	2.53	4.76	5.27	4.40
3	5.80	6.77	7.18	.00	5.12	7.39	.00	.00	.00	4.57	.00	4.15	4.66	.00	4.11
4	.00	.00	.00	6.14	5.36	.00	.00	.00	.00	.00	.00	3.91	5.06	5.25	4.54
5	.00	6.31	.00	4.19	4.27	7.01	6.47	6.91	.00	.00	.00	.00	3.98	4.41	4.28
6	7.60	6.02	.00	5.48	.00	5.61	.00	.00	.00	.00	.00	3.56	4.46	5.31	4.75
7	.00	5.40	.00	7.80	.00	5.57	.00	.00	.00	.00	.00	3.75	4.59	.00	4.76
8	.00	6.77	.00	4.58	.00	8.71	.00	.00	.00	.00	.00	.00	4.44	.00	4.13
9	.00	7.76	.00	5.41	.00	8.37	.00	.00	.00	.00	.00	.00	4.34	.00	4.37
10	.00	7.51	.00	3.70	.00	6.37	.00	6.82	.00	.00	.00	.00	4.29	.00	4.23
11	.00	6.80	.00	6.18	.00	7.04	.00	6.98	.00	.00	.00	.00	4.12	.00	4.19
12	.00	7.97	.00	7.95	.00	8.16	.00	6.56	.00	.00	5.67	.00	4.31	.00	3.83
13	.00	7.61	.00	6.47	.00	6.53	.00	.00	.00	.00	5.27	.00	4.36	.00	3.90
14	.00	6.19	.00	4.88	.00	5.61	.00	.00	.00	.00	4.14	.00	4.63	.00	3.69
15	.00	5.83	.00	5.91	.00	5.94	.00	.00	.00	.00	4.62	.00	4.52	.00	4.56
16	.00	.00	.00	5.65	.00	4.30	.00	.00	.00	.00	5.37	.00	4.84	.00	3.77
17	.00	3.87	.00	.00	.00	3.70	.00	.00	.00	.00	5.47	.00	4.96	.00	3.89
18	.00	5.18	.00	.00	.00	4.54	.00	.00	4.40	.00	4.74	.00	4.73	.00	3.64
19	.00	5.18	.00	4.05	.00	6.08	.00	.00	4.81	.00	5.63	.00	4.27	.00	3.55
20	.00	5.31	.00	3.45	.00	5.04	.00	.00	5.11	.00	6.87	.00	4.85	.00	4.31
21	.00	5.35	.00	3.16	.00	5.09	.00	.00	3.35	.00	.00	.00	4.75	.00	4.60
22	.00	5.41	.00	5.71	.00	.00	.00	.00	8.30	.00	.00	.00	4.75	.00	3.53
23	.00	5.53	.00	.00	.00	.00	.00	.00	4.39	.00	.00	.00	5.23	.00	3.47
101	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.88	5.15	3.93
102	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.88	.00	3.83
103	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.20	.00	.00
104	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.83	.00	.00
105	.00	5.61	.00	.00	5.32	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
106	.00	8.17	.00	7.10	.00	7.41	.00	.00	.00	.00	.00	.00	.00	.00	.00
107	.00	3.60	.00	4.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
108	.00	6.55	.00	3.82	.00	4.83	.00	.00	2.93	.00	.00	.00	.00	.00	.00
109	.00	5.67	.00	.00	.00	5.67	.00	.00	4.56	.00	5.47	3.34	.00	.00	.00
110	7.67	6.90	7.31	.00	.00	7.13	.00	6.75	7.39	.00	4.75	4.98	.00	.00	.00

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 10.

Geologic Unit Average Value as a Function of Map Line for ppm eTh

	AA	CC	CCW	CKT	COK	CR	CS	CW	DC	DCFM	DFM	HS	KCK	KE	KG
1	.38	.40	.41	.38	.00	.35	.00	.00	.00	.00	.00	.63	.41	.33	.41
2	.42	.29	.40	.00	.00	.38	.00	.00	.00	.51	.00	.74	.35	.29	.44
3	.41	.34	.34	.00	.33	.25	.00	.00	.00	.45	.00	.50	.35	.00	.37
4	.00	.00	.00	.39	.45	.00	.00	.00	.00	.00	.00	.38	.36	.35	.42
5	.00	.42	.00	.47	.66	.42	.39	.39	.00	.00	.00	.00	.55	.51	.49
6	.40	.47	.00	.41	.00	.39	.00	.00	.00	.00	.00	.51	.43	.34	.46
7	.00	.42	.00	.32	.00	.38	.00	.00	.00	.00	.00	.57	.41	.00	.43
8	.00	.40	.00	.35	.00	.45	.00	.00	.00	.00	.00	.00	.45	.00	.51
9	.00	.40	.00	.44	.00	.35	.00	.00	.00	.00	.00	.00	.47	.00	.44
10	.00	.36	.00	.42	.00	.44	.00	.35	.00	.00	.00	.00	.45	.00	.46
11	.00	.38	.00	.44	.00	.48	.00	.40	.00	.00	.00	.00	.52	.00	.46
12	.00	.40	.00	.47	.00	.29	.00	.38	.00	.00	.23	.00	.48	.00	.48
13	.00	.43	.00	.49	.00	.38	.00	.00	.00	.00	.40	.00	.45	.00	.46
14	.00	.40	.00	.55	.00	.34	.00	.00	.00	.00	.33	.00	.57	.00	.55
15	.00	.60	.00	.53	.00	.26	.00	.00	.00	.00	.47	.00	.49	.00	.44
16	.00	.00	.00	.44	.00	.45	.00	.00	.00	.00	.37	.00	.42	.00	.56
17	.00	.43	.00	.00	.00	.62	.00	.00	.00	.00	.41	.00	.41	.00	.44
18	.00	.46	.00	.00	.00	.57	.00	.00	.46	.00	.38	.00	.38	.00	.46
19	.00	.47	.00	.40	.00	.33	.00	.00	.58	.00	.26	.00	.44	.00	.37
20	.00	.44	.00	.66	.00	.47	.00	.00	.44	.00	.28	.00	.43	.00	.45
21	.00	.38	.00	.83	.00	.38	.00	.00	.62	.00	.00	.00	.42	.00	.43
22	.00	.42	.00	.52	.00	.00	.00	.00	.38	.00	.00	.00	.42	.00	.47
23	.00	.42	.00	.00	.00	.00	.00	.00	.38	.00	.00	.00	.40	.00	.54
101	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.49	.39	.51
102	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.45	.00	.44
103	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.42	.00	.00
104	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.41	.00	.00
105	.00	.38	.00	.00	.43	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
106	.00	.44	.00	.46	.00	.34	.00	.00	.00	.00	.00	.00	.00	.00	.00
107	.00	.87	.00	.62	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
108	.00	.42	.00	.40	.00	.44	.00	.00	.65	.00	.00	.00	.00	.00	.00
109	.00	.36	.00	.00	.00	.42	.00	.00	.32	.00	.45	.55	.00	.00	.00
110	.31	.35	.38	.00	.00	.38	.00	.34	.43	.00	.40	.18	.00	.00	.00

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 10.

Geologic Unit Average Value as a

Function of Map Line for ppm eU/ppm eTh

	KM	KT	MB	MDA	MF	MFM	MFP	MHS	MP	MPM	MPP	MTM	OC	OCA	OCB
1	2.00	1.73	.00	.00	1.76	.00	.90	.00	.00	.00	.00	.00	.00	.00	1.62
2	1.81	1.47	.00	.00	2.06	.00	1.86	.00	1.16	.00	.00	.00	.00	.00	1.72
3	1.60	1.55	.00	.00	1.73	.00	1.78	.00	1.46	.00	.00	1.54	1.27	.00	1.62
4	.00	2.19	.00	.00	1.73	.00	2.69	1.97	2.10	.00	.00	2.02	2.56	.00	.00
5	.00	2.28	.00	.00	1.85	.00	2.15	.00	2.01	.00	.00	1.88	2.90	.00	.00
6	.00	.00	.00	.00	1.88	.00	1.97	.00	1.78	.00	.00	1.80	1.94	.00	.00
7	.00	.00	.00	.00	1.79	.00	1.89	.00	1.89	.00	.00	.80	2.08	.00	.00
8	.00	.00	.00	.00	1.82	.00	2.25	.00	1.62	.00	.00	2.33	2.34	.00	.00
9	.00	.00	.00	.00	2.01	2.59	.00	.00	1.78	.00	.00	2.19	2.06	.00	.00
10	.00	.00	2.10	1.78	2.03	1.34	2.29	1.94	2.03	.00	1.27	2.63	3.50	.00	.00
11	.00	.00	2.33	2.26	2.66	3.11	.00	2.98	2.17	.00	.00	.00	1.98	.00	.00
12	.00	.00	2.43	2.55	2.19	1.99	.00	2.40	1.86	.00	2.94	.00	2.68	.00	.00
13	.00	.00	2.63	2.42	2.26	2.09	.00	2.01	2.48	2.03	.00	2.01	3.37	.00	.00
14	.00	.00	2.10	1.60	2.22	1.96	.00	1.76	2.18	.00	.00	2.00	2.42	.00	.00
15	.00	.00	2.80	1.61	2.05	2.11	.00	1.80	2.05	1.94	.00	2.19	2.64	1.62	.00
16	.00	.00	1.57	1.84	1.88	1.80	.00	1.73	1.60	.00	.00	2.08	2.29	.00	.00
17	.00	.00	1.92	.00	2.09	2.22	.00	2.15	1.95	1.43	.00	2.75	1.98	.00	.00
18	.00	.00	1.84	.00	1.74	1.32	.00	1.69	.00	.00	1.43	1.45	2.28	.00	.00
19	.00	.00	2.18	.00	2.06	2.02	.00	2.42	.00	.00	2.07	1.56	2.76	.00	.00
20	.00	.00	2.17	.00	1.74	2.02	.00	1.73	.00	.00	1.47	2.18	2.63	.00	.00
21	.00	.00	1.80	.00	.00	2.37	.00	2.14	.00	.00	1.87	1.55	2.60	.00	.00
22	.00	.00	1.46	.00	.00	1.68	1.35	1.98	.00	.00	1.62	2.19	2.57	.00	.00
23	.00	.00	1.96	.00	.00	1.42	.00	1.63	.00	.00	1.70	1.74	2.60	.00	.00
101	2.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
102	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
103	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
104	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
105	.00	1.62	.00	.00	1.50	.00	.00	.00	1.66	.00	.00	1.76	1.69	.00	.00
106	.00	.00	1.25	2.20	2.29	.00	.00	1.44	2.08	.00	.00	.00	2.52	.00	1.83
107	.00	.00	2.09	.00	1.96	.00	.00	2.18	1.93	2.63	1.61	2.46	.00	.00	.00
108	.00	.00	1.56	.00	1.73	2.33	1.83	1.85	1.64	.00	1.42	2.07	3.44	.00	.00
109	.00	.00	1.71	.00	1.65	1.72	.00	1.77	.00	.00	1.62	2.33	1.67	.00	.00
110	.00	.00	.00	.00	1.76	1.81	.00	.00	.00	.00	.00	2.43	1.58	.00	.00

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 110.

Geologic Unit Average Value as a

Function of Map Line for ppm eU

	OCBF	OCBK	OCC	OCCR	OCK	OCU	OLM	OLV	ONL	OU	PBR	PBY	PCN	PGR	PLC
1	6.22	3.27	4.10	4.53	4.25	.00	3.87	3.94	4.60	.00	.00	.00	.00	5.05	.00
2	5.76	4.30	2.96	3.45	3.88	.00	4.14	4.41	4.96	.00	.00	.00	.00	.00	.00
3	7.03	.00	5.40	4.34	3.83	6.94	4.99	4.91	5.58	.00	.00	.00	.00	.00	.00
4	6.40	.00	3.93	4.45	6.30	7.71	5.58	3.85	5.68	.00	.00	.00	.00	.00	.00
5	.00	.00	2.77	3.48	4.40	6.48	5.24	4.15	4.32	.00	.00	4.58	.00	.00	.00
6	.00	.00	3.93	3.75	4.61	5.69	4.22	3.67	5.62	.00	5.42	6.13	5.37	.00	.00
7	.00	.00	4.90	8.29	5.19	6.12	5.59	3.26	4.56	.00	6.22	4.79	5.48	.00	.00
8	.00	.00	6.39	2.84	5.31	7.48	5.90	4.36	4.72	.00	6.14	5.51	6.67	.00	.00
9	.00	.00	.00	4.39	4.52	5.51	4.03	3.65	4.47	.00	6.00	4.17	.00	.00	.00
10	.00	.00	3.31	3.47	7.96	5.01	4.53	3.66	4.51	.00	.00	2.46	5.57	.00	.00
11	.00	.00	2.01	2.45	6.82	5.01	.00	.00	4.66	6.40	.00	2.84	.00	.00	.00
12	.00	.00	.00	.00	7.65	4.87	6.17	.00	4.67	5.45	.00	3.16	.00	.00	.00
13	.00	.00	.00	.00	6.02	4.43	4.81	.00	.00	5.28	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	4.54	5.02	6.36	.00	4.07	.00	.00	.00	.00	.00	6.55
15	.00	.00	.00	.00	4.40	3.95	4.03	.00	3.41	.00	.00	.00	.00	.00	6.09
16	.00	.00	.00	.00	3.63	3.73	5.04	.00	4.03	.00	.00	.00	.00	.00	6.08
17	.00	.00	.00	.00	4.02	3.02	4.37	.00	4.12	.00	.00	.00	.00	.00	7.43
18	.00	.00	.00	.00	4.72	3.78	4.71	.00	4.59	.00	.00	4.34	.00	.00	5.72
19	.00	.00	.00	.00	4.79	3.33	.00	.00	6.23	.00	.00	3.76	.00	.00	5.75
20	.00	.00	.00	.00	4.60	4.24	.00	.00	2.95	.00	5.61	4.09	.00	.00	.00
21	.00	.00	.00	.00	4.16	4.89	.00	.00	.00	.00	5.31	4.21	.00	.00	.00
22	.00	.00	.00	.00	4.86	4.38	.00	.00	.00	.00	4.71	3.87	.00	.00	.00
23	.00	.00	.00	.00	5.17	4.80	.00	.00	.00	.00	5.14	4.89	.00	.00	.00
101	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
102	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
103	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
104	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
105	.00	.00	.00	.00	.00	.00	2.87	.00	2.70	.00	5.68	5.29	.00	.00	.00
106	4.79	.00	.00	3.54	7.14	.00	.00	.00	.00	.00	4.16	3.92	4.58	.00	4.00
107	.00	.00	3.27	2.49	4.13	.00	4.04	3.28	4.37	.00	.00	3.19	.00	.00	.00
108	.00	.00	.00	.00	4.16	.00	4.09	.00	5.06	5.32	.00	4.17	.00	.00	.00
109	.00	.00	.00	.00	6.36	4.81	4.02	.00	2.97	.00	.00	.00	.00	.00	.00
110	.00	.00	.00	.00	.00	5.23	4.69	.00	4.96	.00	.00	.00	.00	.00	.00

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 110.

Geologic Unit Average Value as a
Function of Map Line for ppm eTh

	PMC	PPI	PPS	PSN	PSR	PVP	PWR	QAL	QT	SC	SRM	TA	TB	TCA	TFS
1	.00	.00	.00	.00	.00	4.15	.00	3.88	2.51	.00	.00	7.59	10.06	.00	10.19
2	.00	.00	.00	.00	.00	4.56	.00	4.32	6.35	.00	.00	7.68	8.42	.00	.00
3	.00	.00	.00	.00	.00	4.72	.00	4.82	4.72	.00	.00	7.43	.00	.00	.00
4	.00	.00	.00	.00	.00	5.05	.00	4.54	4.46	.00	6.09	6.68	.00	2.99	.00
5	.00	.00	.00	4.57	.00	4.78	.00	3.90	4.44	.00	.00	8.13	.00	4.39	.00
6	.00	2.89	3.29	5.30	.00	4.31	3.43	3.95	4.46	.00	4.29	6.12	.00	.00	.00
7	.00	4.64	3.70	.00	4.04	4.95	.00	3.85	4.26	.00	4.64	7.41	.00	2.88	.00
8	.00	3.67	4.28	.00	4.67	5.28	3.39	4.80	3.66	.00	7.78	7.90	.00	4.14	.00
9	.00	3.57	3.10	.00	3.69	4.90	2.42	3.71	4.11	.00	6.96	7.69	.00	.00	.00
10	.00	2.95	3.50	.00	.00	5.42	3.25	4.46	.00	.00	8.48	7.97	.00	.00	.00
11	.00	.00	3.91	.00	.00	5.71	.00	4.87	3.53	.00	7.41	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	4.99	.00	3.31	3.89	.00	7.07	.00	.00	.00	.00
13	5.05	.00	.00	.00	.00	5.46	.00	5.41	4.36	.00	4.86	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	5.72	.00	4.40	.00	.00	6.96	.00	.00	.00	.00
15	3.78	.00	.00	.00	.00	6.11	.00	4.90	.00	.00	6.56	.00	.00	.00	.00
16	4.21	.00	.00	.00	.00	5.99	.00	5.54	.00	.00	6.73	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	6.03	.00	4.89	.00	4.82	4.99	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	5.99	.00	6.09	4.14	4.33	5.77	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	6.01	.00	5.94	3.19	7.94	5.15	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	6.11	.00	5.38	5.03	3.83	4.82	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	5.52	.00	4.98	.00	6.05	3.78	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	5.27	.00	5.32	.00	3.24	7.27	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	5.11	.00	5.35	.00	5.94	5.64	.00	.00	.00	.00
101	.00	.00	.00	.00	.00	.00	.00	4.47	.00	.00	.00	.00	.00	.00	.00
102	.00	.00	.00	.00	.00	4.90	.00	4.64	5.90	.00	.00	.00	.00	.00	.00
103	.00	.00	.00	.00	.00	5.37	.00	5.34	4.25	.00	.00	.00	.00	.00	.00
104	.00	.00	.00	.00	.00	5.71	.00	5.63	.00	.00	.00	.00	.00	.00	.00
105	.00	.00	.00	.00	.00	6.51	.00	7.47	.00	.00	4.42	.00	.00	.00	.00
106	.00	3.42	4.64	4.85	.00	5.65	.00	6.58	.00	.00	5.25	.00	.00	.00	.00
107	.00	2.63	.00	.00	4.60	5.00	3.28	3.51	.00	.00	.00	8.95	10.13	.00	9.62
108	.00	.00	.00	.00	.00	4.71	.00	.00	.00	5.44	4.06	.00	.00	.00	.00
109	.00	.00	.00	.00	.00	4.63	.00	.00	.00	.00	5.67	5.87	.00	.00	.00
110	.00	.00	.00	.00	.00	2.36	.00	4.96	.00	.00	4.39	5.41	.00	3.86	.00

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 110.

Geologic Unit Average Value as a
Function of Map Line for ppm eTh

	TJ	TS	TSC	TSS	WA
1	9.46	9.67	.00	.00	5.15
2	.00	9.25	5.39	.00	5.42
3	.00	.00	6.33	.00	5.48
4	.00	.00	5.12	.00	6.64
5	.00	.00	7.06	.00	4.75
6	.00	.00	8.29	.00	9.47
7	.00	.00	6.13	.00	3.01
8	.00	.00	8.03	.00	3.17
9	.00	.00	6.90	.00	5.95
10	.00	.00	9.20	.00	5.30
11	.00	.00	.00	.00	4.80
12	.00	.00	.00	.00	3.39
13	.00	.00	.00	.00	5.58
14	.00	.00	.00	.00	4.10
15	.00	.00	.00	.00	5.23
16	.00	.00	.00	.00	4.99
17	.00	.00	.00	.00	9.93
18	.00	.00	.00	.00	4.67
19	.00	.00	.00	.00	3.63
20	.00	.00	.00	.00	4.30
21	.00	.00	.00	.00	4.29
22	.00	.00	.00	.00	4.05
23	.00	.00	.00	.00	2.89
101	.00	.00	.00	.00	.00
102	.00	.00	.00	.00	.00
103	.00	.00	.00	.00	3.56
104	.00	.00	.00	.00	4.06
105	.00	.00	.00	.00	3.51
106	.00	.00	.00	.00	.00
107	.00	9.25	.00	6.04	.00
108	.00	.00	.00	.00	5.85
109	.00	.00	5.67	.00	4.07
110	.00	.00	3.57	.00	6.93

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 110.

	AA	CC	CCW	CKT	COK	CR	CS	CW	DC	DCFM	DFM	HS	KCK	KE	KG
1	.91	.32	.88	.25	.00	.96	.00	.00	.00	.00	.00	.79	.33	.43	.33
2	1.17	1.27	.92	.00	.00	1.19	.00	.00	.00	.42	.00	.21	.36	.36	.25
3	.55	.30	.95	.00	.28	1.60	.00	.00	.00	.28	.00	.43	.40	.00	.29
4	.00	.00	.00	.27	.28	.00	.00	.00	.00	.00	.00	.55	.37	.39	.27
5	.00	.45	.00	.31	.22	.83	.54	.82	.00	.00	.00	.00	.25	.30	.29
6	.59	.43	.00	.66	.00	1.13	.00	.00	.00	.00	.00	.40	.38	.35	.29
7	.00	.39	.00	1.63	.00	1.09	.00	.00	.00	.00	.00	.38	.37	.00	.29
8	.00	.46	.00	.28	.00	.88	.00	.00	.00	.00	.00	.00	.31	.00	.25
9	.00	.45	.00	.62	.00	.90	.00	.00	.00	.00	.00	.00	.35	.00	.27
10	.00	.65	.00	.30	.00	.80	.00	.94	.00	.00	.00	.00	.36	.00	.28
11	.00	1.08	.00	.46	.00	.72	.00	.50	.00	.00	.00	.00	.35	.00	.26
12	.00	.62	.00	.44	.00	1.00	.00	.63	.00	.00	.60	.00	.30	.00	.23
13	.00	.45	.00	.33	.00	1.93	.00	.00	.00	.00	.43	.00	.29	.00	.25
14	.00	.38	.00	.40	.00	.86	.00	.00	.00	.00	.29	.00	.35	.00	.23
15	.00	.34	.00	.46	.00	.89	.00	.00	.00	.00	.14	.00	.35	.00	.28
16	.00	.00	.00	.46	.00	.59	.00	.00	.00	.00	.64	.00	.35	.00	.30
17	.00	.35	.00	.00	.00	.36	.00	.00	.00	.00	.53	.00	.35	.00	.25
18	.00	.31	.00	.00	.00	.94	.00	.00	.36	.00	.51	.00	.30	.00	.27
19	.00	.32	.00	.31	.00	1.67	.00	.00	.19	.00	.77	.00	.29	.00	.27
20	.00	.31	.00	.21	.00	1.15	.00	.00	.24	.00	.41	.00	.32	.00	.26
21	.00	.33	.00	.12	.00	.26	.00	.00	.26	.00	.00	.00	.34	.00	.31
22	.00	.32	.00	.64	.00	.00	.00	.00	.42	.00	.00	.00	.35	.00	.26
23	.00	.39	.00	.00	.00	.00	.00	.00	.30	.00	.00	.00	.43	.00	.28
101	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.28	.35	.25
102	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.36	.00	.24
103	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.38	.00	.00
104	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.44	.00	.00
105	.00	.41	.00	.00	.33	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
106	.00	.73	.00	.41	.00	1.14	.00	.00	.00	.00	.00	.00	.00	.00	.00
107	.00	.27	.00	.75	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
108	.00	.41	.00	.16	.00	.73	.00	.00	.25	.00	.00	.00	.00	.00	.00
109	.00	.42	.00	.00	.00	.37	.00	.00	.27	.00	.52	.31	.00	.00	.00
110	.72	.46	.63	.00	.00	1.07	.00	.55	.46	.00	.79	.76	.00	.00	.00

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 10.

Geologic Unit Average Value as a
Function of Map Line for %K

	KM	KT	MB	MDA	MF	MFM	MFP	MHS	MP	MPM	MPP	MTM	OC	OCA	OCB
1	.43	.26	.00	.00	.48	.00	.43	.00	.00	.00	.00	.00	.00	.00	.20
2	.32	.32	.00	.00	.84	.00	.37	.00	.18	.00	.00	.00	.00	.00	.17
3	.41	.43	.00	.00	.42	.00	.47	.00	.40	.00	.00	.17	.39	.00	.16
4	.00	.28	.00	.00	.41	.00	1.45	.34	.48	.00	.00	.32	.68	.00	.00
5	.00	.20	.00	.00	.48	.00	.73	.00	.49	.00	.00	.43	.48	.00	.00
6	.00	.00	.00	.00	.41	.00	.42	.00	.49	.00	.00	.28	.30	.00	.00
7	.00	.00	.00	.00	.44	.00	.38	.00	.51	.00	.00	.27	.25	.00	.00
8	.00	.00	.00	.00	.47	.00	.40	.00	.42	.00	.00	.39	.27	.00	.00
9	.00	.00	.00	.00	.38	.22	.00	.00	.43	.00	.00	.28	.35	.00	.00
10	.00	.00	.21	.26	.43	.24	.19	.30	.44	.00	.29	.34	.47	.00	.00
11	.00	.00	.33	.63	.42	.28	.00	.39	.50	.00	.00	.00	.45	.00	.00
12	.00	.00	.41	.51	.47	.34	.00	.35	.50	.00	.73	.00	.47	.00	.00
13	.00	.00	.26	.34	.40	.35	.00	.19	.55	.32	.00	.45	.49	.00	.00
14	.00	.00	.42	.44	.37	.36	.00	.30	.54	.00	.00	.37	.41	.00	.00
15	.00	.00	.30	.32	.45	.35	.00	.23	.45	.30	.00	.31	.54	.24	.00
16	.00	.00	.41	.25	.48	.43	.00	.30	.36	.00	.00	.25	.49	.00	.00
17	.00	.00	.40	.00	.53	.49	.00	.35	.45	.21	.00	.36	.56	.00	.00
18	.00	.00	.37	.00	.34	.32	.00	.28	.00	.00	.22	.26	.49	.00	.00
19	.00	.00	.46	.00	.29	.22	.00	.29	.00	.00	.43	.25	.46	.00	.00
20	.00	.00	.43	.00	.22	.23	.00	.30	.00	.00	.40	.56	.48	.00	.00
21	.00	.00	.32	.00	.00	.38	.00	.29	.00	.00	.72	.41	.57	.00	.00
22	.00	.00	.28	.00	.00	.18	.10	.28	.00	.00	.34	.30	.54	.00	.00
23	.00	.00	.33	.00	.00	.29	.00	.30	.00	.00	.43	.42	.35	.00	.00
101	.37	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
102	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
103	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
104	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
105	.00	.33	.00	.00	.50	.00	.00	.00	.55	.00	.00	.32	.28	.00	.00
106	.00	.00	.24	.44	.44	.00	.00	.23	.44	.00	.00	.00	.66	.00	.15
107	.00	.00	.26	.00	.41	.00	.00	.23	.43	.24	.24	.26	.00	.00	.00
108	.00	.00	.34	.00	.40	.30	.28	.30	.49	.00	.25	.33	.61	.00	.00
109	.00	.00	.36	.00	.45	.48	.00	.33	.00	.00	.34	.77	.28	.00	.00
110	.00	.00	.00	.00	.36	.40	.00	.07	.00	.00	.00	.54	.19	.00	.00

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 10.

Geologic Unit Average Value as a
Function of Map Line for %K

	OCBF	OCBK	OCC	OCCR	OCK	OCU	OLM	OLV	ONL	OU	PBR	PBY	PCN	PGR	PLC
1	.33	.15	.22	.24	.27	.00	.26	.21	.31	.00	.00	.00	.00	.80	.00
2	.34	.48	.13	.15	.21	.00	.43	.18	.25	.00	.00	.00	.00	.00	.00
3	.34	.00	.28	.17	.21	.57	.42	.36	.60	.00	.00	.00	.00	.00	.00
4	.31	.00	.16	.22	.34	.84	.57	.19	.36	.00	.00	.00	.00	.00	.00
5	.00	.00	.14	.18	.26	.59	.31	.20	.21	.00	.00	.22	.00	.00	.00
6	.00	.00	.19	.15	.33	.41	.43	.21	.46	.00	.61	.65	.77	.00	.00
7	.00	.00	.29	.81	.26	.57	.50	.15	.27	.00	.90	.62	.74	.00	.00
8	.00	.00	.53	.23	.27	.79	.38	.68	.30	.00	.92	.79	.77	.00	.00
9	.00	.00	.00	.31	.21	.35	.35	.14	.29	.00	.95	.58	.00	.00	.00
10	.00	.00	.16	.17	.37	.34	.33	.20	.36	.00	.00	.18	.61	.00	.00
11	.00	.00	.13	.18	.33	.29	.00	.00	.38	.40	.00	.34	.00	.00	.00
12	.00	.00	.00	.00	.50	.31	.55	.00	.54	.38	.00	.23	.00	.00	.00
13	.00	.00	.00	.00	.33	.21	.49	.00	.00	.32	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.29	.31	.47	.00	.25	.00	.00	.00	.00	.00	.88
15	.00	.00	.00	.00	.25	.27	.25	.00	.20	.00	.00	.00	.00	.00	.83
16	.00	.00	.00	.00	.24	.23	.39	.00	.19	.00	.00	.00	.00	.00	.71
17	.00	.00	.00	.00	.37	.19	.37	.00	.26	.00	.00	.00	.00	.00	1.36
18	.00	.00	.00	.00	.34	.21	.34	.00	.25	.00	.00	.32	.00	.00	.75
19	.00	.00	.00	.00	.26	.21	.00	.00	.48	.00	.00	.30	.00	.00	.83
20	.00	.00	.00	.00	.37	.47	.00	.00	.14	.00	.73	.33	.00	.00	.00
21	.00	.00	.00	.00	.35	.28	.00	.00	.00	.00	.41	.36	.00	.00	.00
22	.00	.00	.00	.00	.32	.22	.00	.00	.00	.00	.42	.35	.00	.00	.00
23	.00	.00	.00	.00	.59	.28	.00	.00	.00	.00	.51	.53	.00	.00	.00
101	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
102	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
103	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
104	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
105	.00	.00	.00	.00	.00	.00	.24	.00	.21	.00	.80	.79	.00	.00	.00
106	.29	.00	.00	.19	.40	.00	.00	.00	.00	.00	.39	.31	.61	.00	.53
107	.00	.00	.40	.13	.24	.00	.24	.14	.22	.00	.00	.23	.00	.00	.00
108	.00	.00	.00	.00	.30	.00	.39	.00	.31	.24	.00	.41	.00	.00	.00
109	.00	.00	.00	.00	.40	.30	.30	.00	.17	.00	.00	.00	.00	.00	.00
110	.00	.00	.00	.00	.00	.30	.32	.00	.52	.00	.00	.00	.00	.00	.00

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 10.

Geologic Unit Average Value as a
Function of Map Line for %K

	PMC	PPI	PPS	PSN	PSR	PVP	PWR	QAL	QT	SC	SRM	TA	TB	TCA	TFS
1	.00	.00	.00	.00	.00	.44	.00	.35	.36	.00	.00	1.22	1.51	.00	1.83
2	.00	.00	.00	.00	.00	.42	.00	.45	.51	.00	.00	1.16	1.55	.00	.00
3	.00	.00	.00	.00	.00	.53	.00	.51	.33	.00	.00	1.08	.00	.00	.00
4	.00	.00	.00	.00	.00	.65	.00	.45	.29	.00	.23	.90	.00	.28	.00
5	.00	.00	.00	.68	.00	.59	.00	.41	.31	.00	.00	1.14	.00	.35	.00
6	.00	.26	.24	.82	.00	.51	.35	.34	.35	.00	.24	.83	.00	.00	.00
7	.00	.50	.30	.00	.41	.64	.00	.34	.34	.00	.22	1.06	.00	.24	.00
8	.00	.43	.34	.00	.55	.78	.35	.38	.29	.00	.44	1.32	.00	.32	.00
9	.00	.34	.24	.00	.35	.68	.21	.35	.27	.00	.23	1.34	.00	.00	.00
10	.00	.20	.34	.00	.00	.78	.33	.49	.00	.00	.49	1.46	.00	.00	.00
11	.00	.00	.31	.00	.00	.75	.00	.40	.39	.00	.53	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.63	.00	.29	.25	.00	.38	.00	.00	.00	.00
13	.40	.00	.00	.00	.00	.69	.00	.62	.30	.00	.42	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.76	.00	.55	.00	.00	.25	.00	.00	.00	.00
15	.31	.00	.00	.00	.00	.86	.00	.51	.00	.00	.40	.00	.00	.00	.00
16	.38	.00	.00	.00	.00	.85	.00	.68	.00	.00	.41	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.86	.00	.61	.00	.38	.33	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.82	.00	.94	.27	.40	.40	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.82	.00	.75	.20	.59	.59	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.77	.00	.63	.42	.36	.32	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.64	.00	.50	.00	.60	.15	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.56	.00	.54	.00	.26	.31	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.51	.00	.49	.00	.60	.49	.00	.00	.00	.00
101	.00	.00	.00	.00	.00	.00	.00	.35	.00	.00	.00	.00	.00	.00	.00
102	.00	.00	.00	.00	.00	.37	.00	.40	.77	.00	.00	.00	.00	.00	.00
103	.00	.00	.00	.00	.00	.68	.00	.62	.33	.00	.00	.00	.00	.00	.00
104	.00	.00	.00	.00	.00	.76	.00	.84	.00	.00	.00	.00	.00	.00	.00
105	.00	.00	.00	.00	.00	.96	.00	1.09	.00	.00	.32	.00	.00	.00	.00
106	.00	.34	.36	.76	.00	.75	.00	.58	.00	.00	1.04	.00	.00	.00	.00
107	.00	.15	.00	.00	.38	.60	.33	.29	.00	.00	.00	1.36	1.36	.00	1.61
108	.00	.00	.00	.00	.00	.55	.00	.00	.00	.79	.35	.00	.00	.00	.00
109	.00	.00	.00	.00	.00	.50	.00	.00	.00	.00	.37	.77	.00	.00	.00
110	.00	.00	.00	.00	.00	.20	.00	.25	.00	.00	.43	.71	.00	.31	.00

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 10.

Geologic Unit Average Value as a
Function of Map Line for %K

	TJ	TS	TSC	TSS	WA
1	1.37	1.51	.00	.00	.41
2	.00	1.55	1.42	.00	.98
3	.00	.00	.53	.00	1.24
4	.00	.00	.46	.00	.33
5	.00	.00	1.09	.00	.60
6	.00	.00	1.46	.00	.44
7	.00	.00	.38	.00	.27
8	.00	.00	1.08	.00	.32
9	.00	.00	.76	.00	.85
10	.00	.00	1.53	.00	.38
11	.00	.00	.00	.00	.47
12	.00	.00	.00	.00	.22
13	.00	.00	.00	.00	.34
14	.00	.00	.00	.00	.22
15	.00	.00	.00	.00	.23
16	.00	.00	.00	.00	.29
17	.00	.00	.00	.00	.80
18	.00	.00	.00	.00	.38
19	.00	.00	.00	.00	.26
20	.00	.00	.00	.00	.32
21	.00	.00	.00	.00	.24
22	.00	.00	.00	.00	.25
23	.00	.00	.00	.00	.22
101	.00	.00	.00	.00	.00
102	.00	.00	.00	.00	.00
103	.00	.00	.00	.00	.23
104	.00	.00	.00	.00	.21
105	.00	.00	.00	.00	.21
106	.00	.00	.00	.00	.00
107	.00	.95	.00	.47	.00
108	.00	.00	.00	.00	.88
109	.00	.00	.44	.00	.38
110	.00	.00	.20	.00	.72

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 10.

Geologic Unit Average Value as a
Function of Map Line for %K

	KM	KT	MB	MDA	MF	MFM	MFP	MHS	MP	MPM	MPP	MTM	OC	OCA	OCB
1	.37	.46	.00	.00	.33	.00	.28	.00	.00	.00	.00	.00	.00	.00	.36
2	.35	.35	.00	.00	.37	.00	.45	.00	.39	.00	.00	.00	.00	.00	.44
3	.31	.31	.00	.00	.37	.00	.38	.00	.27	.00	.00	.55	.27	.00	.43
4	.00	.43	.00	.00	.35	.00	.36	.35	.44	.00	.00	.39	.39	.00	.00
5	.00	.49	.00	.00	.35	.00	.35	.00	.40	.00	.00	.55	.56	.00	.00
6	.00	.00	.00	.00	.39	.00	.44	.00	.40	.00	.00	.40	.35	.00	.00
7	.00	.00	.00	.00	.37	.00	.43	.00	.38	.00	.00	.20	.47	.00	.00
8	.00	.00	.00	.00	.36	.00	.54	.00	.40	.00	.00	.46	.43	.00	.00
9	.00	.00	.00	.00	.44	.70	.00	.00	.39	.00	.00	.36	.27	.00	.00
10	.00	.00	.61	.33	.42	.46	.70	.34	.47	.00	.35	.39	.30	.00	.00
11	.00	.00	.56	.19	.60	.59	.00	.58	.48	.00	.00	.00	.27	.00	.00
12	.00	.00	.34	.37	.41	.58	.00	.37	.42	.00	.37	.00	.36	.00	.00
13	.00	.00	.59	.39	.48	.40	.00	.60	.47	.27	.00	.33	.52	.00	.00
14	.00	.00	.36	.50	.54	.42	.00	.42	.48	.00	.00	.49	.36	.00	.00
15	.00	.00	.51	.36	.46	.46	.00	.50	.45	.50	.00	.50	.41	.52	.00
16	.00	.00	.33	.34	.39	.46	.00	.45	.41	.00	.00	.54	.37	.00	.00
17	.00	.00	.53	.00	.42	.51	.00	.54	.51	.42	.00	.51	.36	.00	.00
18	.00	.00	.49	.00	.47	.40	.00	.53	.00	.00	.41	.37	.42	.00	.00
19	.00	.00	.41	.00	.49	.68	.00	.58	.00	.00	.48	.46	.52	.00	.00
20	.00	.00	.48	.00	.44	.43	.00	.45	.00	.00	.36	.36	.46	.00	.00
21	.00	.00	.45	.00	.00	.86	.00	.51	.00	.00	.36	.37	.39	.00	.00
22	.00	.00	.49	.00	.00	.74	1.05	.69	.00	.00	.41	.34	.47	.00	.00
23	.00	.00	.53	.00	.00	.53	.00	.50	.00	.00	.46	.35	.56	.00	.00
101	.40	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
102	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
103	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
104	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
105	.00	.42	.00	.00	.34	.00	.00	.00	.42	.00	.00	.44	.37	.00	.00
106	.00	.00	.27	.20	.45	.00	.00	.32	.44	.00	.00	.00	.33	.00	.67
107	.00	.00	.54	.00	.41	.00	.00	.49	.42	.66	.58	.56	.00	.00	.00
108	.00	.00	.53	.00	.41	.65	.51	.57	.40	.00	.41	.56	.54	.00	.00
109	.00	.00	.36	.00	.35	.34	.00	.40	.00	.00	.45	.30	.45	.00	.00
110	.00	.00	.00	.00	.40	.47	.00	.00	.00	.00	.00	.34	.42	.00	.00

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 10.

Geologic Unit Average Value as a

Function of Map Line for ppm eU/ppm eTh

	OCBF	OCBK	OCC	OCCR	OCK	OCU	OLM	OLV	ONL	OU	PBR	PBY	PCN	PGR	PLC
1	.37	.63	.43	.41	.38	.00	.35	.27	.38	.00	.00	.00	.00	.64	.00
2	.33	.39	.56	.37	.45	.00	.58	.41	.46	.00	.00	.00	.00	.00	.00
3	.32	.00	.42	.36	.45	.34	.43	.40	.46	.00	.00	.00	.00	.00	.00
4	.42	.00	.56	.52	.45	.35	.33	.59	.45	.00	.00	.00	.00	.00	.00
5	.00	.00	.79	.56	.51	.38	.48	.51	.56	.00	.00	.48	.00	.00	.00
6	.00	.00	.46	.61	.44	.41	.59	.57	.45	.00	.45	.37	.42	.00	.00
7	.00	.00	.41	.33	.41	.41	.37	.45	.47	.00	.33	.48	.39	.00	.00
8	.00	.00	.35	.73	.44	.35	.41	.61	.49	.00	.43	.42	.31	.00	.00
9	.00	.00	.00	.54	.43	.42	.52	.43	.47	.00	.41	.44	.00	.00	.00
10	.00	.00	.75	.52	.34	.54	.55	.58	.50	.00	.00	.56	.35	.00	.00
11	.00	.00	.90	.74	.37	.55	.00	.00	.66	.53	.00	.54	.00	.00	.00
12	.00	.00	.00	.00	.50	.50	.26	.00	.37	.41	.00	.39	.00	.00	.00
13	.00	.00	.00	.00	.53	.58	.54	.00	.00	.53	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.45	.45	.46	.00	.57	.00	.00	.00	.00	.00	.43
15	.00	.00	.00	.00	.52	.55	.60	.00	.61	.00	.00	.00	.00	.00	.27
16	.00	.00	.00	.00	.59	.44	.43	.00	.59	.00	.00	.00	.00	.00	.32
17	.00	.00	.00	.00	.53	.73	.53	.00	.50	.00	.00	.00	.00	.00	.34
18	.00	.00	.00	.00	.42	.49	.37	.00	.45	.00	.00	.41	.00	.00	.36
19	.00	.00	.00	.00	.58	.58	.00	.00	.29	.00	.00	.51	.00	.00	.50
20	.00	.00	.00	.00	.66	.43	.00	.00	.54	.00	.41	.49	.00	.00	.00
21	.00	.00	.00	.00	.51	.51	.00	.00	.00	.00	.38	.44	.00	.00	.00
22	.00	.00	.00	.00	.47	.54	.00	.00	.00	.00	.46	.51	.00	.00	.00
23	.00	.00	.00	.00	.42	.43	.00	.00	.00	.00	.38	.47	.00	.00	.00
101	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
102	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
103	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
104	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
105	.00	.00	.00	.00	.00	.00	.53	.00	.73	.00	.38	.38	.00	.00	.00
106	.56	.00	.00	.56	.44	.00	.00	.00	.00	.00	.54	.53	.35	.00	.45
107	.00	.00	.62	.52	.56	.00	.42	.50	.37	.00	.00	.54	.00	.00	.00
108	.00	.00	.00	.00	.56	.00	.52	.00	.47	.45	.00	.46	.00	.00	.00
109	.00	.00	.00	.00	.32	.45	.47	.00	.64	.00	.00	.00	.00	.00	.00
110	.00	.00	.00	.00	.00	.41	.40	.00	.35	.00	.00	.00	.00	.00	.00

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 10.

Geologic Unit Average Value as a

Function of Map Line for ppm eU/ppm eTh

	PMC	PPI	PPS	PSN	PSR	PVP	PWR	QAL	QT	SC	SRM	TA	TB	TCA	TFS
1	.00	.00	.00	.00	.00	.50	.00	.48	.62	.00	.00	.29	.24	.00	.24
2	.00	.00	.00	.00	.00	.37	.00	.40	.36	.00	.00	.32	.31	.00	.00
3	.00	.00	.00	.00	.00	.32	.00	.39	.39	.00	.00	.32	.00	.00	.00
4	.00	.00	.00	.00	.00	.39	.00	.42	.46	.00	.43	.35	.00	.53	.00
5	.00	.00	.00	.40	.00	.47	.00	.57	.48	.00	.00	.32	.00	.32	.00
6	.00	.60	.41	.42	.00	.43	.35	.45	.46	.00	.48	.36	.00	.00	.00
7	.00	.37	.38	.00	.52	.42	.00	.48	.39	.00	.38	.36	.00	.52	.00
8	.00	.39	.37	.00	.34	.40	.50	.44	.47	.00	.27	.30	.00	.38	.00
9	.00	.51	.53	.00	.42	.43	.97	.58	.46	.00	.31	.32	.00	.00	.00
10	.00	.52	.50	.00	.00	.43	.51	.46	.00	.00	.35	.41	.00	.00	.00
11	.00	.00	.56	.00	.00	.42	.00	.44	.43	.00	.50	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.46	.00	.49	.43	.00	.39	.00	.00	.00	.00
13	.28	.00	.00	.00	.00	.41	.00	.44	.34	.00	.55	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.46	.00	.52	.00	.00	.40	.00	.00	.00	.00
15	.28	.00	.00	.00	.00	.39	.00	.44	.00	.00	.30	.00	.00	.00	.00
16	.23	.00	.00	.00	.00	.39	.00	.37	.00	.00	.34	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.39	.00	.41	.00	.41	.52	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.37	.00	.36	.46	.55	.45	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.40	.00	.40	.63	.44	.34	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.38	.00	.42	.36	.63	.32	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.39	.00	.44	.00	.47	.51	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.41	.00	.42	.00	.66	.37	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.42	.00	.43	.00	.31	.53	.00	.00	.00	.00
101	.00	.00	.00	.00	.00	.00	.00	.40	.00	.00	.00	.00	.00	.00	.00
102	.00	.00	.00	.00	.00	.53	.00	.48	.50	.00	.00	.00	.00	.00	.00
103	.00	.00	.00	.00	.00	.42	.00	.43	.45	.00	.00	.00	.00	.00	.00
104	.00	.00	.00	.00	.00	.38	.00	.42	.00	.00	.00	.00	.00	.00	.00
105	.00	.00	.00	.00	.00	.34	.00	.30	.00	.00	.41	.00	.00	.00	.00
106	.00	.35	.45	.59	.00	.43	.00	.40	.00	.00	.49	.00	.00	.00	.00
107	.00	.40	.00	.00	.34	.44	.30	.73	.00	.00	.00	.31	.23	.00	.27
108	.00	.00	.00	.00	.00	.44	.00	.00	.00	.90	.67	.00	.00	.00	.00
109	.00	.00	.00	.00	.00	.37	.00	.00	.00	.00	.29	.40	.00	.00	.00
110	.00	.00	.00	.00	.00	.49	.00	.45	.00	.00	.61	.35	.00	.39	.00

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 10.

Geologic Unit Average Value as a

Function of Map Line for ppm eU/ppm eTh

	TJ	TS	TSC	TSS	WA
1	.25	.24	.00	.00	.33
2	.00	.23	.29	.00	.47
3	.00	.00	.46	.00	.44
4	.00	.00	.40	.00	.37
5	.00	.00	.33	.00	.47
6	.00	.00	.29	.00	.38
7	.00	.00	.50	.00	.60
8	.00	.00	.38	.00	.43
9	.00	.00	.36	.00	.29
10	.00	.00	.24	.00	.86
11	.00	.00	.00	.00	.39
12	.00	.00	.00	.00	.64
13	.00	.00	.00	.00	.50
14	.00	.00	.00	.00	.50
15	.00	.00	.00	.00	.53
16	.00	.00	.00	.00	.53
17	.00	.00	.00	.00	.48
18	.00	.00	.00	.00	.52
19	.00	.00	.00	.00	.52
20	.00	.00	.00	.00	.57
21	.00	.00	.00	.00	.46
22	.00	.00	.00	.00	.45
23	.00	.00	.00	.00	.62
101	.00	.00	.00	.00	.00
102	.00	.00	.00	.00	.00
103	.00	.00	.00	.00	.49
104	.00	.00	.00	.00	.79
105	.00	.00	.00	.00	.39
106	.00	.00	.00	.00	.00
107	.00	.35	.00	.54	.00
108	.00	.00	.00	.00	.29
109	.00	.00	.41	.00	.40
110	.00	.00	.58	.00	.32

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 10.

Geologic Unit Average Value as a

Function of Map Line for ppm eU/ppm eTh

	AA	CC	CCW	CKT	COK	CR	CS	CW	DC	DCFM	DFM	HS	KCK	KE	KG
1	3.62	7.52	2.87	8.13	.00	2.32	.00	.00	.00	.00	.00	4.51	6.26	3.72	6.11
2	3.09	1.86	3.05	.00	.00	2.78	.00	.00	.00	5.17	.00	9.20	5.45	4.21	8.08
3	5.03	7.63	2.60	.00	6.18	1.36	.00	.00	.00	9.51	.00	5.99	4.49	.00	5.62
4	.00	.00	.00	10.30	9.20	.00	.00	.00	.00	.00	.00	2.85	5.68	4.98	7.58
5	.00	8.35	.00	6.40	14.91	4.67	5.10	4.19	.00	.00	.00	.00	9.83	8.07	8.10
6	5.39	6.61	.00	4.10	.00	2.10	.00	.00	.00	.00	.00	4.89	5.56	5.29	7.79
7	.00	6.86	.00	1.86	.00	2.05	.00	.00	.00	.00	.00	6.64	5.95	.00	7.66
8	.00	6.69	.00	6.65	.00	5.46	.00	.00	.00	.00	.00	.00	7.35	.00	8.75
9	.00	8.63	.00	4.39	.00	3.75	.00	.00	.00	.00	.00	.00	7.28	.00	7.99
10	.00	4.67	.00	5.80	.00	5.14	.00	3.40	.00	.00	.00	.00	6.07	.00	7.12
11	.00	3.05	.00	6.81	.00	5.11	.00	5.84	.00	.00	.00	.00	6.81	.00	7.90
12	.00	6.74	.00	8.85	.00	2.65	.00	5.33	.00	.00	2.17	.00	7.33	.00	8.80
13	.00	7.63	.00	10.18	.00	1.77	.00	.00	.00	.00	4.88	.00	7.50	.00	7.71
14	.00	7.41	.00	7.31	.00	2.22	.00	.00	.00	.00	4.73	.00	8.23	.00	9.43
15	.00	11.53	.00	7.52	.00	1.76	.00	.00	.00	.00	15.87	.00	7.48	.00	7.58
16	.00	.00	.00	5.39	.00	3.20	.00	.00	.00	.00	3.85	.00	6.26	.00	7.05
17	.00	5.11	.00	.00	.00	6.47	.00	.00	.00	.00	4.52	.00	6.07	.00	7.34
18	.00	8.47	.00	.00	.00	3.00	.00	.00	5.74	.00	3.82	.00	6.27	.00	6.43
19	.00	9.02	.00	5.27	.00	1.33	.00	.00	17.94	.00	1.85	.00	6.91	.00	4.91
20	.00	8.34	.00	11.19	.00	2.92	.00	.00	9.45	.00	4.76	.00	7.38	.00	8.19
21	.00	7.78	.00	21.02	.00	7.91	.00	.00	9.09	.00	.00	.00	6.24	.00	6.80
22	.00	7.66	.00	5.40	.00	.00	.00	.00	7.48	.00	.00	.00	6.17	.00	6.91
23	.00	6.53	.00	.00	.00	.00	.00	.00	7.47	.00	.00	.00	5.27	.00	7.19
101	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	7.26	6.50	8.41
102	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	6.53	.00	7.61
103	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.47	.00	.00
104	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.54	.00	.00
105	.00	5.18	.00	.00	7.27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
106	.00	5.54	.00	8.65	.00	2.48	.00	.00	.00	.00	.00	.00	.00	.00	.00
107	.00	11.59	.00	5.89	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
108	.00	7.35	.00	10.16	.00	2.87	.00	.00	7.39	.00	.00	.00	.00	.00	.00
109	.00	5.41	.00	.00	.00	6.38	.00	.00	5.43	.00	4.90	7.47	.00	.00	.00
110	3.54	6.48	4.66	.00	.00	2.99	.00	4.52	6.88	.00	2.35	1.29	.00	.00	.00

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 10.

Geologic Unit Average Value as a

Function of Map Line for ppm eU/%K

	AA	CC	CCW	CKT	COK	CR	CS	CW	DC	DCFM	DFM	HS	KCK	KE	KG
1	3.62	7.52	2.87	8.13	.00	2.32	.00	.00	.00	.00	.00	4.51	6.26	3.72	6.11
2	3.09	1.86	3.05	.00	.00	2.78	.00	.00	.00	5.17	.00	9.20	5.45	4.21	8.08
3	5.03	7.63	2.60	.00	6.18	1.36	.00	.00	.00	9.51	.00	5.99	4.49	.00	5.62
4	.00	.00	.00	10.30	9.20	.00	.00	.00	.00	.00	.00	2.85	5.68	4.98	7.58
5	.00	8.35	.00	6.40	14.91	4.67	5.10	4.19	.00	.00	.00	.00	9.83	8.07	8.10
6	5.39	6.61	.00	4.10	.00	2.10	.00	.00	.00	.00	.00	4.89	5.56	5.29	7.79
7	.00	6.86	.00	1.86	.00	2.05	.00	.00	.00	.00	.00	6.64	5.95	.00	7.66
8	.00	6.69	.00	6.65	.00	5.46	.00	.00	.00	.00	.00	.00	7.35	.00	8.75
9	.00	8.63	.00	4.39	.00	3.75	.00	.00	.00	.00	.00	.00	7.28	.00	7.99
10	.00	4.67	.00	5.80	.00	5.14	.00	3.40	.00	.00	.00	.00	6.07	.00	7.12
11	.00	3.05	.00	6.81	.00	5.11	.00	5.84	.00	.00	.00	.00	6.81	.00	7.90
12	.00	6.74	.00	8.85	.00	2.65	.00	5.33	.00	.00	2.17	.00	7.33	.00	8.80
13	.00	7.63	.00	10.18	.00	1.77	.00	.00	.00	.00	4.88	.00	7.50	.00	7.71
14	.00	7.41	.00	7.31	.00	2.22	.00	.00	.00	.00	4.73	.00	8.23	.00	9.43
15	.00	11.53	.00	7.52	.00	1.76	.00	.00	.00	.00	15.87	.00	7.48	.00	7.58
16	.00	.00	.00	5.39	.00	3.20	.00	.00	.00	.00	3.85	.00	6.26	.00	7.05
17	.00	5.11	.00	.00	.00	6.47	.00	.00	.00	.00	4.52	.00	6.07	.00	7.34
18	.00	8.47	.00	.00	.00	3.00	.00	.00	5.74	.00	3.82	.00	6.27	.00	6.43
19	.00	9.02	.00	5.27	.00	1.33	.00	.00	17.94	.00	1.85	.00	6.91	.00	4.91
20	.00	8.34	.00	11.19	.00	2.92	.00	.00	9.45	.00	4.76	.00	7.38	.00	8.19
21	.00	7.78	.00	21.02	.00	7.91	.00	.00	9.09	.00	.00	.00	6.24	.00	6.80
22	.00	7.66	.00	5.40	.00	.00	.00	.00	7.48	.00	.00	.00	6.17	.00	6.91
23	.00	6.53	.00	.00	.00	.00	.00	.00	7.47	.00	.00	.00	5.27	.00	7.19
101	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	7.26	6.50	8.41
102	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	6.53	.00	7.61
103	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.47	.00	.00
104	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.54	.00	.00
105	.00	5.18	.00	.00	7.27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
106	.00	5.54	.00	8.65	.00	2.48	.00	.00	.00	.00	.00	.00	.00	.00	.00
107	.00	11.59	.00	5.89	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
108	.00	7.35	.00	10.16	.00	2.87	.00	.00	7.39	.00	.00	.00	.00	.00	.00
109	.00	5.41	.00	.00	.00	6.38	.00	.00	5.43	.00	4.90	7.47	.00	.00	.00
110	3.54	6.48	4.66	.00	.00	2.99	.00	4.52	6.88	.00	2.35	1.29	.00	.00	.00

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 10.

Geologic Unit Average Value as a

Function of Map Line for ppm eU/%K

	KM	KT	MB	MDA	MF	MFM	MFP	MHS	MP	MPM	MPP	MTM	OC	OCA	OCB
1	5.02	8.12	.00	.00	4.77	.00	2.17	.00	.00	.00	.00	.00	.00	.00	8.29
2	6.17	5.34	.00	.00	3.59	.00	5.52	.00	7.82	.00	.00	.00	.00	.00	11.28
3	4.07	4.22	.00	.00	4.82	.00	5.10	.00	4.25	.00	.00	10.01	3.37	.00	11.12
4	.00	8.59	.00	.00	5.11	.00	2.54	6.82	5.42	.00	.00	7.35	3.80	.00	.00
5	.00	12.37	.00	.00	4.08	.00	4.15	.00	4.43	.00	.00	4.41	6.47	.00	.00
6	.00	.00	.00	.00	4.98	.00	6.24	.00	4.34	.00	.00	6.84	6.88	.00	.00
7	.00	.00	.00	.00	4.34	.00	4.89	.00	3.92	.00	.00	3.26	8.85	.00	.00
8	.00	.00	.00	.00	4.62	.00	6.29	.00	4.50	.00	.00	6.92	9.59	.00	.00
9	.00	.00	.00	.00	6.04	12.35	.00	.00	4.76	.00	.00	8.33	6.12	.00	.00
10	.00	.00	11.75	6.94	5.65	6.38	12.45	6.90	5.27	.00	4.69	8.18	7.50	.00	.00
11	.00	.00	8.58	3.96	7.15	11.98	.00	7.58	4.89	.00	.00	.00	4.53	.00	.00
12	.00	.00	6.68	5.74	4.96	7.56	.00	7.98	4.50	.00	4.10	.00	5.84	.00	.00
13	.00	.00	10.96	7.38	6.61	6.35	.00	11.69	4.80	6.57	.00	4.88	6.93	.00	.00
14	.00	.00	5.84	3.87	6.78	5.91	.00	7.17	4.62	.00	.00	5.88	5.94	.00	.00
15	.00	.00	10.59	5.07	5.74	7.37	.00	8.98	5.24	8.38	.00	7.91	4.92	7.22	.00
16	.00	.00	3.95	9.88	4.77	4.81	.00	7.04	4.55	.00	.00	10.18	5.14	.00	.00
17	.00	.00	5.47	.00	4.90	5.71	.00	6.72	4.82	7.49	.00	7.86	4.02	.00	.00
18	.00	.00	6.37	.00	7.29	6.55	.00	6.81	.00	.00	6.82	6.01	5.65	.00	.00
19	.00	.00	5.10	.00	7.83	10.73	.00	9.83	.00	.00	6.62	6.40	7.26	.00	.00
20	.00	.00	5.55	.00	8.06	9.88	.00	6.28	.00	.00	3.68	5.22	6.28	.00	.00
21	.00	.00	6.34	.00	.00	6.30	.00	8.20	.00	.00	2.69	4.64	6.39	.00	.00
22	.00	.00	6.24	.00	.00	9.64	12.37	8.48	.00	.00	5.65	7.46	7.02	.00	.00
23	.00	.00	6.62	.00	.00	5.41	.00	5.92	.00	.00	4.77	5.28	7.76	.00	.00
101	6.22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
102	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
103	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
104	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
105	.00	6.49	.00	.00	3.46	.00	.00	.00	3.39	.00	.00	6.42	6.33	.00	.00
106	.00	.00	5.42	5.07	5.78	.00	.00	6.66	5.56	.00	.00	.00	3.86	.00	11.44
107	.00	.00	9.28	.00	5.02	.00	.00	11.33	5.03	11.36	7.04	10.31	.00	.00	.00
108	.00	.00	5.17	.00	5.15	7.81	6.87	7.28	4.01	.00	5.95	6.61	5.73	.00	.00
109	.00	.00	5.01	.00	4.58	3.89	.00	6.28	.00	.00	5.45	3.06	6.41	.00	.00
110	.00	.00	.00	.00	6.39	4.58	.00	.00	.00	.00	.00	4.58	9.01	.00	.00

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 10.

Geologic Unit Average Value as a
Function of Map Line for ppm eU/%K

	OCBF	OCBK	OCC	OCCR	OCK	OCU	OLM	OLV	ONL	OU	PBR	PBY	PCN	PGR	PLC
1	7.38	14.88	8.43	7.89	6.48	.00	5.65	5.26	6.24	.00	.00	.00	.00	3.88	.00
2	6.85	3.45	14.68	8.69	8.80	.00	5.68	10.08	10.25	.00	.00	.00	.00	.00	.00
3	6.46	.00	7.52	9.61	9.68	5.07	5.86	5.64	6.44	.00	.00	.00	.00	.00	.00
4	9.62	.00	14.47	11.28	9.52	4.38	4.42	11.71	8.09	.00	.00	.00	.00	.00	.00
5	.00	.00	16.19	12.33	9.30	5.58	8.36	10.82	12.90	.00	.00	10.40	.00	.00	.00
6	.00	.00	9.67	15.50	6.52	7.44	5.85	10.47	6.52	.00	4.19	3.77	3.05	.00	.00
7	.00	.00	7.72	3.34	9.01	5.18	4.27	8.80	8.32	.00	2.38	4.12	3.10	.00	.00
8	.00	.00	4.59	8.63	9.10	3.88	7.55	3.85	8.35	.00	2.99	3.31	2.58	.00	.00
9	.00	.00	.00	10.24	9.68	8.27	7.10	10.97	8.66	.00	3.04	4.46	.00	.00	.00
10	.00	.00	16.20	12.40	9.19	9.36	7.53	11.01	7.65	.00	.00	9.02	3.30	.00	.00
11	.00	.00	12.82	10.50	8.16	10.58	.00	.00	7.89	8.63	.00	4.62	.00	.00	.00
12	.00	.00	.00	.00	8.63	8.75	3.10	.00	3.44	5.79	.00	6.01	.00	.00	.00
13	.00	.00	.00	.00	9.91	13.46	5.41	.00	.00	9.35	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	7.84	7.59	6.34	.00	9.58	.00	.00	.00	.00	.00	3.25
15	.00	.00	.00	.00	9.36	10.02	12.23	.00	11.39	.00	.00	.00	.00	.00	2.13
16	.00	.00	.00	.00	8.98	8.03	5.59	.00	13.87	.00	.00	.00	.00	.00	2.58
17	.00	.00	.00	.00	7.21	12.36	5.96	.00	7.94	.00	.00	.00	.00	.00	2.03
18	.00	.00	.00	.00	6.66	9.61	4.99	.00	9.45	.00	.00	5.88	.00	.00	2.93
19	.00	.00	.00	.00	12.28	9.56	.00	.00	3.59	.00	.00	7.02	.00	.00	3.79
20	.00	.00	.00	.00	8.78	8.31	.00	.00	11.52	.00	3.52	7.24	.00	.00	.00
21	.00	.00	.00	.00	7.44	9.80	.00	.00	.00	.00	5.18	5.47	.00	.00	.00
22	.00	.00	.00	.00	7.89	11.50	.00	.00	.00	.00	6.06	6.59	.00	.00	.00
23	.00	.00	.00	.00	5.91	7.53	.00	.00	.00	.00	4.68	5.20	.00	.00	.00
101	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
102	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
103	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
104	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
105	.00	.00	.00	.00	.00	.00	6.56	.00	9.80	.00	3.17	3.12	.00	.00	.00
106	10.65	.00	.00	10.73	8.47	.00	.00	.00	.00	.00	7.85	7.33	2.78	.00	4.06
107	.00	.00	6.91	10.19	10.20	.00	7.46	11.50	8.74	.00	.00	7.75	.00	.00	.00
108	.00	.00	.00	.00	8.77	.00	7.40	.00	7.99	10.56	.00	5.22	.00	.00	.00
109	.00	.00	.00	.00	5.11	8.68	6.79	.00	11.18	.00	.00	.00	.00	.00	.00
110	.00	.00	.00	.00	.00	7.92	8.19	.00	3.94	.00	.00	.00	.00	.00	.00

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 10.

Geologic Unit Average Value as a

Function of Map Line for ppm eU/%K

	PMC	PPI	PPS	PSN	PSR	PVP	PWR	QAL	QT	SC	SRM	TA	TB	TCA	TFS
1	.00	.00	.00	.00	.00	4.90	.00	5.29	4.90	.00	.00	2.09	1.64	.00	1.36
2	.00	.00	.00	.00	.00	4.61	.00	4.21	4.64	.00	.00	2.26	1.64	.00	.00
3	.00	.00	.00	.00	.00	3.43	.00	3.91	5.72	.00	.00	2.46	.00	.00	.00
4	.00	.00	.00	.00	.00	3.64	.00	4.63	7.37	.00	11.48	3.08	.00	5.55	.00
5	.00	.00	.00	2.68	.00	5.25	.00	6.10	7.49	.00	.00	2.75	.00	4.02	.00
6	.00	6.75	7.24	2.86	.00	4.19	3.66	5.74	6.64	.00	9.05	3.77	.00	.00	.00
7	.00	4.18	5.69	.00	5.67	3.69	.00	5.40	5.65	.00	7.59	3.31	.00	6.53	.00
8	.00	3.53	4.72	.00	2.82	3.29	4.85	5.87	7.04	.00	4.81	1.92	.00	4.55	.00
9	.00	6.04	7.12	.00	4.34	3.95	12.63	6.78	7.26	.00	9.95	1.84	.00	.00	.00
10	.00	8.09	5.32	.00	.00	3.75	5.22	4.58	.00	.00	6.28	2.22	.00	.00	.00
11	.00	.00	8.00	.00	.00	3.89	.00	5.79	4.05	.00	8.04	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	4.25	.00	5.20	7.37	.00	7.78	.00	.00	.00	.00
13	3.59	.00	.00	.00	.00	3.83	.00	5.06	5.14	.00	6.24	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	3.80	.00	5.44	.00	.00	12.32	.00	.00	.00	.00
15	3.48	.00	.00	.00	.00	3.28	.00	5.15	.00	.00	5.24	.00	.00	.00	.00
16	2.60	.00	.00	.00	.00	3.07	.00	3.67	.00	.00	6.14	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	3.13	.00	4.08	.00	6.17	7.84	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	3.29	.00	3.11	7.64	5.54	6.41	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	3.61	.00	3.61	11.04	6.09	2.98	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	3.52	.00	4.44	4.39	6.52	7.11	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	4.16	.00	5.85	.00	4.73	11.81	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	4.58	.00	5.00	.00	9.15	8.63	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	4.89	.00	5.11	.00	3.35	6.45	.00	.00	.00	.00
101	.00	.00	.00	.00	.00	.00	.00	5.50	.00	.00	.00	.00	.00	.00	.00
102	.00	.00	.00	.00	.00	7.66	.00	5.96	4.28	.00	.00	.00	.00	.00	.00
103	.00	.00	.00	.00	.00	4.10	.00	4.32	6.41	.00	.00	.00	.00	.00	.00
104	.00	.00	.00	.00	.00	3.24	.00	4.10	.00	.00	.00	.00	.00	.00	.00
105	.00	.00	.00	.00	.00	2.73	.00	2.13	.00	.00	6.28	.00	.00	.00	.00
106	.00	3.49	6.37	4.02	.00	3.75	.00	4.59	.00	.00	10.71	.00	.00	.00	.00
107	.00	7.41	.00	.00	4.15	4.27	3.27	9.47	.00	.00	.00	2.16	1.74	.00	1.61
108	.00	.00	.00	.00	.00	4.30	.00	.00	.00	6.16	8.23	.00	.00	.00	.00
109	.00	.00	.00	.00	.00	3.81	.00	.00	.00	.00	4.87	3.17	.00	.00	.00
110	.00	.00	.00	.00	.00	3.29	.00	9.52	.00	.00	6.20	4.17	.00	6.17	.00

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 10.

Geologic Unit Average Value as a

Function of Map Line for ppm eU/%K

	PMC	PPI	PPS	PSN	PSR	PVP	PWR	QAL	QT	SC	SRM	TA	TB	TCA	TFS
1	.00	.00	.00	.00	.00	4.90	.00	5.29	4.90	.00	.00	2.09	1.64	.00	1.36
2	.00	.00	.00	.00	.00	4.61	.00	4.21	4.64	.00	.00	2.26	1.64	.00	.00
3	.00	.00	.00	.00	.00	3.43	.00	3.91	5.72	.00	.00	2.46	.00	.00	.00
4	.00	.00	.00	.00	.00	3.64	.00	4.63	7.37	.00	11.48	3.08	.00	5.55	.00
5	.00	.00	.00	2.68	.00	5.25	.00	6.10	7.49	.00	.00	2.75	.00	4.02	.00
6	.00	6.75	7.24	2.86	.00	4.19	3.66	5.74	6.64	.00	9.05	3.77	.00	.00	.00
7	.00	4.18	5.69	.00	5.67	3.69	.00	5.40	5.65	.00	7.59	3.31	.00	6.53	.00
8	.00	3.53	4.72	.00	2.82	3.29	4.85	5.87	7.04	.00	4.81	1.92	.00	4.55	.00
9	.00	6.04	7.12	.00	4.34	3.95	12.63	6.78	7.26	.00	9.95	1.84	.00	.00	.00
10	.00	8.09	5.32	.00	.00	3.75	5.22	4.58	.00	.00	6.28	2.22	.00	.00	.00
11	.00	.00	8.00	.00	.00	3.89	.00	5.79	4.05	.00	8.04	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	4.25	.00	5.20	7.37	.00	7.78	.00	.00	.00	.00
13	3.59	.00	.00	.00	.00	3.83	.00	5.06	5.14	.00	6.24	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	3.80	.00	5.44	.00	.00	12.32	.00	.00	.00	.00
15	3.48	.00	.00	.00	.00	3.28	.00	5.15	.00	.00	5.24	.00	.00	.00	.00
16	2.60	.00	.00	.00	.00	3.07	.00	3.67	.00	.00	6.14	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	3.13	.00	4.08	.00	6.17	7.84	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	3.29	.00	3.11	7.64	5.54	6.41	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	3.61	.00	3.61	11.04	6.09	2.98	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	3.52	.00	4.44	4.39	6.52	7.11	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	4.16	.00	5.85	.00	4.73	11.81	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	4.58	.00	5.00	.00	9.15	8.63	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	4.89	.00	5.11	.00	3.35	6.45	.00	.00	.00	.00
101	.00	.00	.00	.00	.00	.00	.00	5.50	.00	.00	.00	.00	.00	.00	.00
102	.00	.00	.00	.00	.00	7.66	.00	5.96	4.28	.00	.00	.00	.00	.00	.00
103	.00	.00	.00	.00	.00	4.10	.00	4.32	6.41	.00	.00	.00	.00	.00	.00
104	.00	.00	.00	.00	.00	3.24	.00	4.10	.00	.00	.00	.00	.00	.00	.00
105	.00	.00	.00	.00	.00	2.73	.00	2.13	.00	.00	.00	.00	.00	.00	.00
106	.00	3.49	6.37	4.02	.00	3.75	.00	4.59	.00	.00	6.28	.00	.00	.00	.00
107	.00	7.41	.00	.00	4.15	4.27	3.27	9.47	.00	.00	.00	2.16	1.74	.00	1.61
108	.00	.00	.00	.00	.00	4.30	.00	.00	.00	6.16	8.23	.00	.00	.00	.00
109	.00	.00	.00	.00	.00	3.81	.00	.00	.00	.00	4.87	3.17	.00	.00	.00
110	.00	.00	.00	.00	.00	3.29	.00	9.52	.00	.00	6.20	4.17	.00	6.17	.00

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 10.

Geologic Unit Average Value as a
Function of Map Line for ppm eU/%K

	TJ	TS	TSC	TSS	WA
1	1.86	1.54	.00	.00	2.75
2	.00	1.34	1.98	.00	2.72
3	.00	.00	5.53	.00	6.03
4	.00	.00	4.67	.00	2.94
5	.00	.00	2.32	.00	8.14
6	.00	.00	1.62	.00	4.85
7	.00	.00	8.51	.00	7.88
8	.00	.00	2.83	.00	7.04
9	.00	.00	3.59	.00	7.26
10	.00	.00	1.41	.00	6.21
11	.00	.00	.00	.00	8.54
12	.00	.00	.00	.00	10.01
13	.00	.00	.00	.00	10.55
14	.00	.00	.00	.00	8.57
15	.00	.00	.00	.00	8.47
16	.00	.00	.00	.00	7.56
17	.00	.00	.00	.00	7.20
18	.00	.00	.00	.00	7.99
19	.00	.00	.00	.00	7.81
20	.00	.00	.00	.00	7.77
21	.00	.00	.00	.00	7.34
22	.00	.00	.00	.00	9.78
23	.00	.00	.00	.00	8.70
101	.00	.00	.00	.00	.00
102	.00	.00	.00	.00	.00
103	.00	.00	.00	.00	5.25
104	.00	.00	.00	.00	10.93
105	.00	.00	.00	.00	8.86
106	.00	.00	.00	.00	.00
107	.00	3.38	.00	7.65	.00
108	.00	.00	.00	.00	3.20
109	.00	.00	5.89	.00	4.74
110	.00	.00	11.25	.00	3.16

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 10.

Geologic Unit Average Value as a

Function of Map Line for ppm eU/%K

	AA	CC	CCW	CKT	COK	CR	CS	CW	DC	DCFM	DFM	HS	KCK	KE	KG
1	10.39	17.74	7.13	21.32	.00	6.30	.00	.00	.00	.00	.00	7.04	15.15	11.51	14.86
2	7.51	6.52	7.86	.00	.00	7.37	.00	.00	.00	10.25	.00	14.09	15.22	14.62	19.03
3	11.98	22.83	7.68	.00	19.12	5.35	.00	.00	.00	20.52	.00	12.40	12.64	.00	15.29
4	.00	.00	.00	25.91	21.31	.00	.00	.00	.00	.00	.00	7.78	15.50	14.31	18.20
5	.00	19.40	.00	13.50	23.55	10.74	12.38	10.42	.00	.00	.00	.00	17.96	17.61	16.41
6	13.78	14.83	.00	9.51	.00	5.25	.00	.00	.00	.00	.00	10.80	13.13	15.51	17.40
7	.00	15.98	.00	5.38	.00	5.61	.00	.00	.00	.00	.00	13.75	14.37	.00	17.92
8	.00	16.62	.00	17.36	.00	11.95	.00	.00	.00	.00	.00	.00	16.38	.00	17.47
9	.00	21.00	.00	10.39	.00	10.44	.00	.00	.00	.00	.00	.00	15.56	.00	18.12
10	.00	12.92	.00	13.37	.00	11.46	.00	9.33	.00	.00	.00	.00	13.57	.00	15.79
11	.00	8.52	.00	15.53	.00	10.47	.00	14.86	.00	.00	.00	.00	13.26	.00	17.03
12	.00	15.97	.00	19.10	.00	9.12	.00	13.83	.00	.00	9.42	.00	15.13	.00	18.58
13	.00	17.88	.00	20.40	.00	4.50	.00	.00	.00	.00	12.66	.00	16.59	.00	16.81
14	.00	18.61	.00	13.06	.00	6.53	.00	.00	.00	.00	14.45	.00	14.42	.00	17.36
15	.00	18.37	.00	15.04	.00	6.72	.00	.00	.00	.00	33.30	.00	14.82	.00	17.46
16	.00	.00	.00	12.73	.00	7.31	.00	.00	.00	.00	9.96	.00	15.01	.00	13.03
17	.00	11.86	.00	.00	.00	10.64	.00	.00	.00	.00	10.69	.00	15.13	.00	16.73
18	.00	18.46	.00	.00	.00	5.20	.00	.00	12.79	.00	11.00	.00	16.49	.00	14.86
19	.00	19.24	.00	13.28	.00	3.98	.00	.00	31.50	.00	7.30	.00	16.01	.00	13.93
20	.00	19.01	.00	16.96	.00	6.02	.00	.00	22.86	.00	16.80	.00	17.02	.00	18.30
21	.00	19.69	.00	27.49	.00	20.98	.00	.00	14.51	.00	.00	.00	15.10	.00	15.66
22	.00	18.69	.00	10.18	.00	.00	.00	.00	19.96	.00	.00	.00	14.64	.00	14.65
23	.00	15.90	.00	.00	.00	.00	.00	.00	18.50	.00	.00	.00	13.29	.00	13.54
101	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	15.16	16.34	16.75
102	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	14.69	.00	17.11
103	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	12.90	.00	.00
104	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	13.85	.00	.00
105	.00	14.64	.00	.00	16.97	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
106	.00	13.13	.00	18.61	.00	7.56	.00	.00	.00	.00	.00	.00	.00	.00	.00
107	.00	13.42	.00	9.69	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
108	.00	17.59	.00	24.82	.00	6.62	.00	.00	11.59	.00	.00	.00	.00	.00	.00
109	.00	14.85	.00	.00	.00	15.41	.00	.00	17.01	.00	10.87	14.18	.00	.00	.00
110	11.84	18.17	12.33	.00	.00	8.23	.00	13.69	15.92	.00	6.26	7.36	.00	.00	.00

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 10.

Geologic Unit Average Value as a

Function of Map Line for ppm eTh/%K

	KM	KT	MB	MDA	MF	MFM	MFP	MHS	MP	MPM	MPP	MTM	OC	OCA	OCB
1	13.62	17.63	.00	.00	14.48	.00	7.83	.00	.00	.00	.00	.00	.00	.00	23.30
2	17.44	15.00	.00	.00	9.38	.00	11.87	.00	20.07	.00	.00	.00	.00	.00	26.56
3	13.48	13.78	.00	.00	12.83	.00	13.17	.00	15.71	.00	.00	17.22	12.90	.00	26.61
4	.00	20.18	.00	.00	13.63	.00	6.39	18.42	12.86	.00	.00	18.55	9.89	.00	.00
5	.00	24.99	.00	.00	11.78	.00	11.39	.00	.11.65	.00	.00	8.09	11.41	.00	.00
6	.00	.00	.00	.00	12.90	.00	14.46	.00	10.55	.00	.00	17.73	19.77	.00	.00
7	.00	.00	.00	.00	11.79	.00	12.02	.00	10.57	.00	.00	15.61	20.70	.00	.00
8	.00	.00	.00	.00	12.49	.00	11.96	.00	11.11	.00	.00	15.04	22.78	.00	.00
9	.00	.00	.00	.00	13.78	18.52	.00	.00	12.23	.00	.00	26.06	23.36	.00	.00
10	.00	.00	18.30	23.83	13.21	13.29	18.63	20.43	11.51	.00	11.71	22.72	25.05	.00	.00
11	.00	.00	15.71	20.74	12.18	22.36	.00	13.45	10.89	.00	.00	.00	17.63	.00	.00
12	.00	.00	19.04	14.88	12.19	13.96	.00	21.40	10.68	.00	10.90	.00	16.50	.00	.00
13	.00	.00	23.74	19.03	13.70	16.02	.00	19.27	10.18	24.83	.00	17.84	13.70	.00	.00
14	.00	.00	15.69	7.74	13.82	13.49	.00	16.49	9.68	.00	.00	12.03	18.80	.00	.00
15	.00	.00	20.52	14.00	12.37	16.45	.00	18.79	11.61	16.51	.00	16.12	12.23	14.22	.00
16	.00	.00	12.21	26.21	12.17	10.96	.00	15.64	12.04	.00	.00	18.91	13.77	.00	.00
17	.00	.00	10.10	.00	11.47	10.93	.00	12.30	9.69	18.33	.00	15.53	11.16	.00	.00
18	.00	.00	12.68	.00	14.20	15.88	.00	13.30	.00	.00	16.82	16.21	13.57	.00	.00
19	.00	.00	12.50	.00	15.42	18.00	.00	17.87	.00	.00	13.34	13.85	13.99	.00	.00
20	.00	.00	11.83	.00	19.12	22.61	.00	14.21	.00	.00	10.62	14.34	14.50	.00	.00
21	.00	.00	14.12	.00	.00	7.04	.00	16.54	.00	.00	7.93	14.30	17.05	.00	.00
22	.00	.00	12.68	.00	.00	16.60	13.17	13.46	.00	.00	13.63	22.00	16.90	.00	.00
23	.00	.00	12.58	.00	.00	10.25	.00	11.87	.00	.00	10.15	14.34	14.05	.00	.00
101	15.56	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
102	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
103	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
104	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
105	.00	14.97	.00	.00	9.81	.00	.00	.00	8.55	.00	.00	15.12	16.95	.00	.00
106	.00	.00	20.58	26.06	13.14	.00	.00	20.70	12.61	.00	.00	.00	11.82	.00	17.85
107	.00	.00	16.88	.00	12.53	.00	.00	24.23	11.66	18.46	12.55	18.89	.00	.00	.00
108	.00	.00	9.97	.00	12.64	12.07	15.16	12.78	10.17	.00	14.79	12.19	11.45	.00	.00
109	.00	.00	13.92	.00	12.47	11.54	.00	15.42	.00	.00	11.54	10.28	14.42	.00	.00
110	.00	.00	.00	.00	16.01	10.21	.00	7.73	.00	.00	.00	13.55	21.99	.00	.00

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 10.

Geologic Unit Average Value as a

Function of Map Line for ppm eTh/%K

	OCBF	OCBK	OCC	OCCR	OCK	OCU	OLM	OLV	ONL	OU	PBR	PBY	PCN	PGR	PLC
1	19.69	23.52	19.28	19.85	16.79	.00	15.53	19.90	16.01	.00	.00	.00	.00	6.32	.00
2	20.98	9.15	25.71	25.65	20.68	.00	9.73	25.53	23.64	.00	.00	.00	.00	.00	.00
3	21.18	.00	19.72	27.37	21.75	14.98	13.54	14.06	12.84	.00	.00	.00	.00	.00	.00
4	22.72	.00	25.56	21.89	21.17	12.17	12.78	21.02	17.84	.00	.00	.00	.00	.00	.00
5	.00	.00	20.85	22.42	18.55	14.51	17.19	21.13	23.42	.00	.00	21.69	.00	.00	.00
6	.00	.00	21.40	26.16	15.34	17.80	9.97	18.18	14.41	.00	9.20	10.22	7.29	.00	.00
7	.00	.00	18.28	10.24	22.16	12.55	11.53	21.14	18.17	.00	7.35	8.47	7.88	.00	.00
8	.00	.00	13.25	12.99	20.91	11.05	19.32	6.43	17.89	.00	6.94	8.17	8.74	.00	.00
9	.00	.00	.00	18.77	22.94	19.70	12.83	28.18	18.74	.00	7.19	10.06	.00	.00	.00
10	.00	.00	22.56	24.24	25.14	17.59	14.28	19.09	14.98	.00	.00	15.23	9.94	.00	.00
11	.00	.00	15.46	14.66	21.58	20.21	.00	.00	12.65	16.10	.00	8.48	.00	.00	.00
12	.00	.00	.00	.00	16.88	18.33	11.42	.00	9.23	14.50	.00	14.27	.00	.00	.00
13	.00	.00	.00	.00	18.95	24.40	10.02	.00	.00	18.09	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	17.46	17.84	13.75	.00	17.47	.00	.00	.00	.00	.00	7.53
15	.00	.00	.00	.00	18.30	19.13	18.96	.00	19.54	.00	.00	.00	.00	.00	8.02
16	.00	.00	.00	.00	16.67	19.62	13.43	.00	23.18	.00	.00	.00	.00	.00	8.50
17	.00	.00	.00	.00	13.79	17.51	12.29	.00	16.55	.00	.00	.00	.00	.00	5.99
18	.00	.00	.00	.00	15.98	20.12	14.33	.00	21.54	.00	.00	14.43	.00	.00	8.32
19	.00	.00	.00	.00	21.01	17.48	.00	.00	13.10	.00	.00	13.76	.00	.00	7.56
20	.00	.00	.00	.00	13.98	19.64	.00	.00	22.42	.00	8.63	14.59	.00	.00	.00
21	.00	.00	.00	.00	15.32	20.35	.00	.00	.00	.00	13.75	12.60	.00	.00	.00
22	.00	.00	.00	.00	16.48	22.27	.00	.00	.00	.00	13.14	12.95	.00	.00	.00
23	.00	.00	.00	.00	13.87	18.07	.00	.00	.00	.00	12.10	10.97	.00	.00	.00
101	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
102	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
103	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
104	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
105	.00	.00	.00	.00	.00	.00	12.56	.00	14.52	.00	8.13	8.01	.00	.00	.00
106	20.03	.00	.00	19.72	19.05	.00	.00	.00	.00	.00	14.03	14.02	7.61	.00	8.29
107	.00	.00	13.09	20.60	18.47	.00	17.45	23.95	23.08	.00	.00	14.76	.00	.00	.00
108	.00	.00	.00	.00	15.52	.00	14.32	.00	17.80	23.06	.00	11.25	.00	.00	.00
109	.00	.00	.00	.00	15.94	19.55	14.44	.00	20.62	.00	.00	.00	.00	.00	.00
110	.00	.00	.00	.00	.00	19.80	17.31	.00	11.31	.00	.00	.00	.00	.00	.00

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 10.

Geologic Unit Average Value as a
Function of Map Line for ppm eTh/%K

	PMC	PPI	PPS	PSN	PSR	PVP	PWR	QAL	QT	SC	SRM	TA	TB	TCA	TFS
1	.00	.00	.00	.00	.00	9.70	.00	11.39	7.57	.00	.00	7.01	6.73	.00	5.66
2	.00	.00	.00	.00	.00	12.72	.00	10.49	13.22	.00	.00	7.07	5.45	.00	.00
3	.00	.00	.00	.00	.00	10.79	.00	10.37	14.89	.00	.00	7.62	.00	.00	.00
4	.00	.00	.00	.00	.00	9.38	.00	11.42	16.07	.00	27.09	8.53	.00	11.86	.00
5	.00	.00	.00	6.68	.00	10.65	.00	11.48	15.55	.00	.00	8.40	.00	12.57	.00
6	.00	11.61	16.47	6.70	.00	9.94	10.60	12.87	14.77	.00	19.01	9.95	.00	.00	.00
7	.00	10.17	14.83	.00	10.59	8.85	.00	12.41	14.08	.00	23.09	8.97	.00	12.62	.00
8	.00	9.40	13.30	.00	8.52	8.04	9.76	13.33	15.20	.00	18.03	6.39	.00	13.58	.00
9	.00	12.08	14.50	.00	10.66	8.98	12.16	11.97	15.75	.00	30.67	5.82	.00	.00	.00
10	.00	15.79	11.09	.00	.00	8.62	10.23	10.07	.00	.00	17.71	5.55	.00	.00	.00
11	.00	.00	14.94	.00	.00	9.10	.00	13.18	9.16	.00	15.75	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	9.29	.00	11.50	17.55	.00	19.32	.00	.00	.00	.00
13	13.00	.00	.00	.00	.00	9.13	.00	11.13	15.13	.00	11.47	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	8.35	.00	10.19	.00	.00	30.19	.00	.00	.00	.00
15	12.51	.00	.00	.00	.00	8.17	.00	11.33	.00	.00	17.97	.00	.00	.00	.00
16	11.39	.00	.00	.00	.00	7.92	.00	9.73	.00	.00	17.20	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	8.06	.00	9.76	.00	14.72	15.98	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	8.71	.00	8.38	16.99	10.96	14.55	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	8.77	.00	8.99	17.41	13.98	8.85	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	9.05	.00	10.33	12.13	10.45	20.98	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	10.26	.00	13.03	.00	10.31	24.04	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	10.95	.00	11.71	.00	13.86	23.42	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	11.81	.00	11.77	.00	10.40	12.00	.00	.00	.00	.00
101	.00	.00	.00	.00	.00	.00	.00	17.34	.00	.00	.00	.00	.00	.00	.00
102	.00	.00	.00	.00	.00	14.49	.00	12.77	8.85	.00	.00	.00	.00	.00	.00
103	.00	.00	.00	.00	.00	9.48	.00	10.01	14.26	.00	.00	.00	.00	.00	.00
104	.00	.00	.00	.00	.00	8.51	.00	8.90	.00	.00	.00	.00	.00	.00	.00
105	.00	.00	.00	.00	.00	7.91	.00	7.00	.00	.00	14.90	.00	.00	.00	.00
106	.00	10.09	14.66	6.66	.00	8.67	.00	11.65	.00	.00	8.17	.00	.00	.00	.00
107	.00	18.15	.00	.00	12.34	9.73	11.12	12.75	.00	.00	.00	7.04	7.51	.00	5.98
108	.00	.00	.00	.00	.00	9.78	.00	.00	.00	6.88	12.65	.00	.00	.00	.00
109	.00	.00	.00	.00	.00	10.47	.00	.00	.00	.00	16.26	8.20	.00	.00	.00
110	.00	.00	.00	.00	.00	10.64	.00	22.32	.00	.00	10.20	11.51	.00	15.73	.00

Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 10.

Geologic Unit Average Value as a

Function of Map Line for ppm eTh/%K

	TJ	TS	TSC	TSS	WA
1	7.01	6.39	.00	.00	9.12
2	.00	6.00	6.66	.00	5.96
3	.00	.00	12.02	.00	6.25
4	.00	.00	11.82	.00	7.42
5	.00	.00	6.92	.00	17.03
6	.00	.00	5.67	.00	13.26
7	.00	.00	17.16	.00	11.80
8	.00	.00	7.52	.00	11.04
9	.00	.00	10.76	.00	16.50
10	.00	.00	6.03	.00	14.86
11	.00	.00	.00	.00	15.18
12	.00	.00	.00	.00	12.26
13	.00	.00	.00	.00	20.93
14	.00	.00	.00	.00	13.43
15	.00	.00	.00	.00	18.10
16	.00	.00	.00	.00	17.37
17	.00	.00	.00	.00	15.53
18	.00	.00	.00	.00	15.07
19	.00	.00	.00	.00	15.39
20	.00	.00	.00	.00	14.83
21	.00	.00	.00	.00	16.09
22	.00	.00	.00	.00	20.64
23	.00	.00	.00	.00	14.14
101	.00	.00	.00	.00	.00
102	.00	.00	.00	.00	.00
103	.00	.00	.00	.00	17.29
104	.00	.00	.00	.00	20.67
105	.00	.00	.00	.00	18.70
106	.00	.00	.00	.00	.00
107	.00	9.77	.00	14.61	.00
108	.00	.00	.00	.00	7.92
109	.00	.00	14.14	.00	11.77
110	.00	.00	19.31	.00	346.81

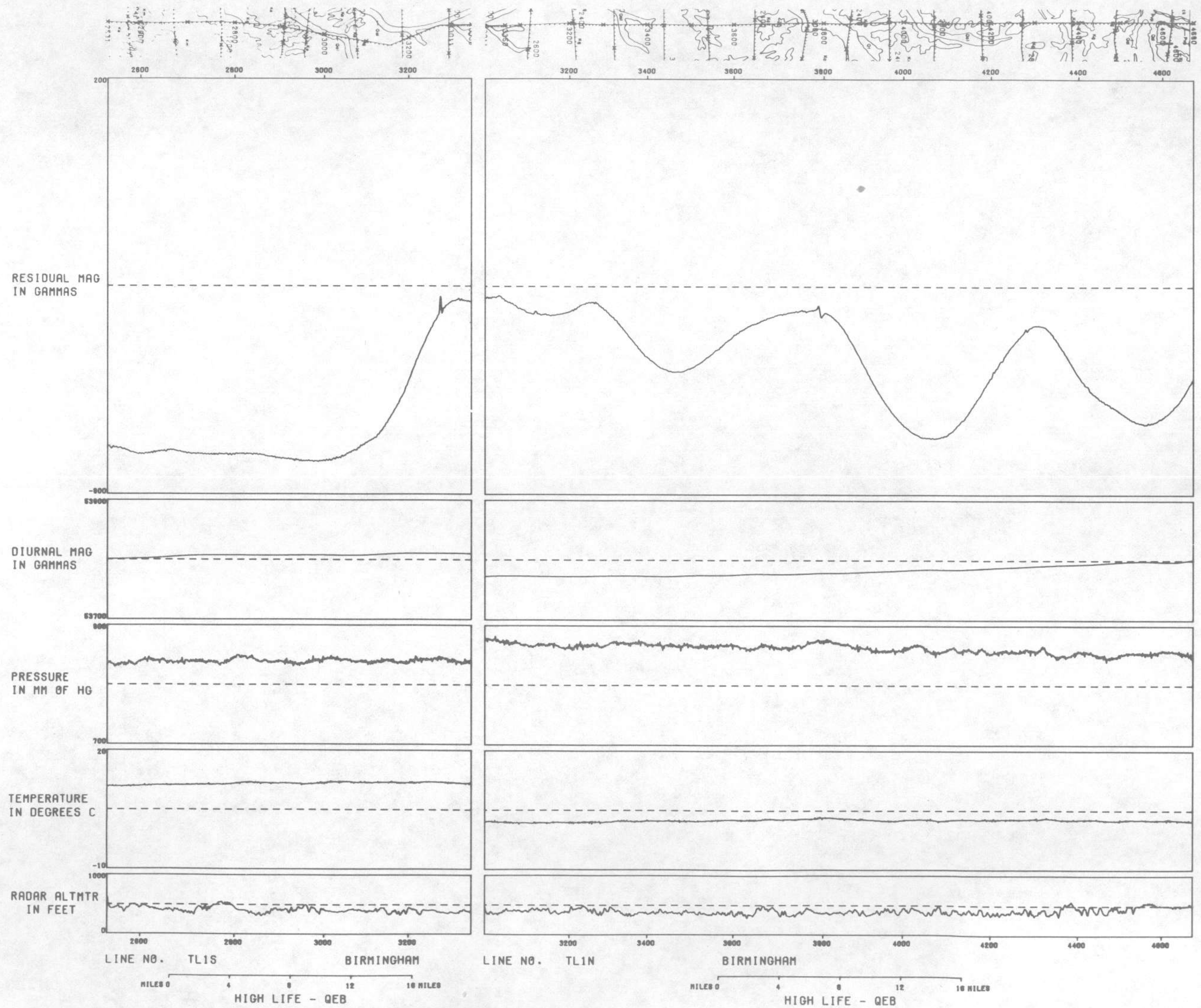
@FIN

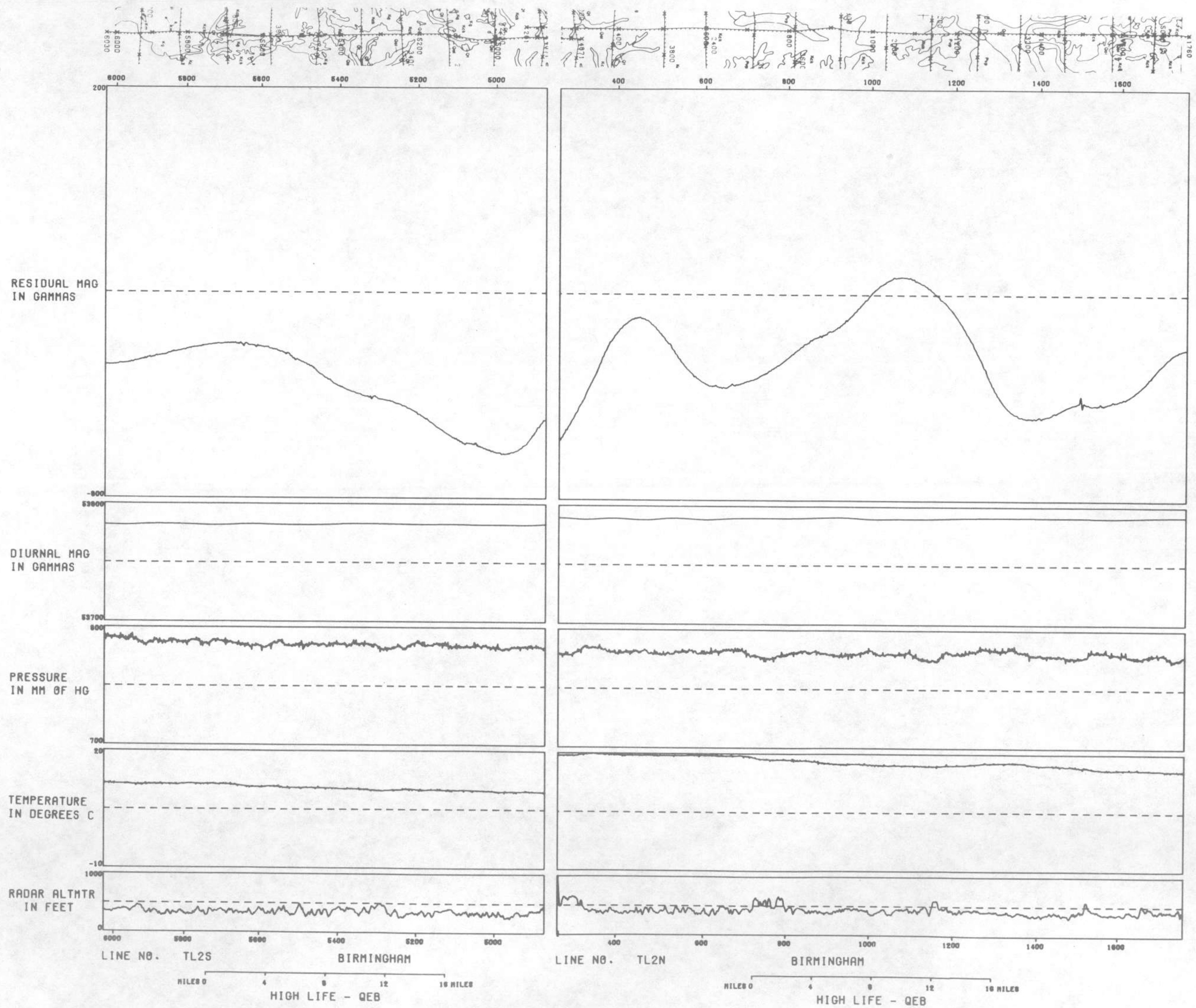
Computer Lines 1 thru 23 refer to Profile Lines 1 thru 23.

Computer Lines 101 thru 110 refer to North-South Tie Lines 1 thru 10.

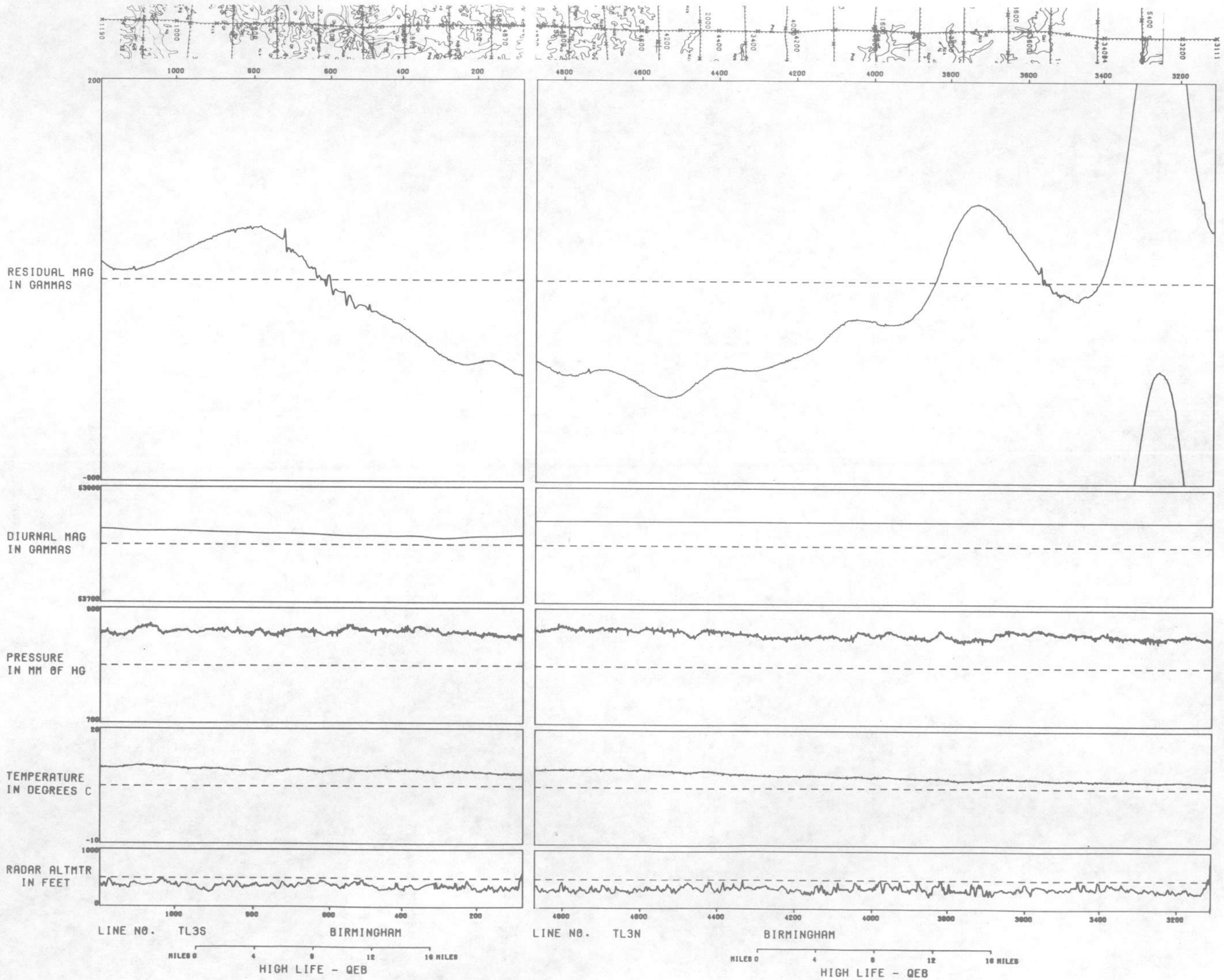
Geologic Unit Average Value as a

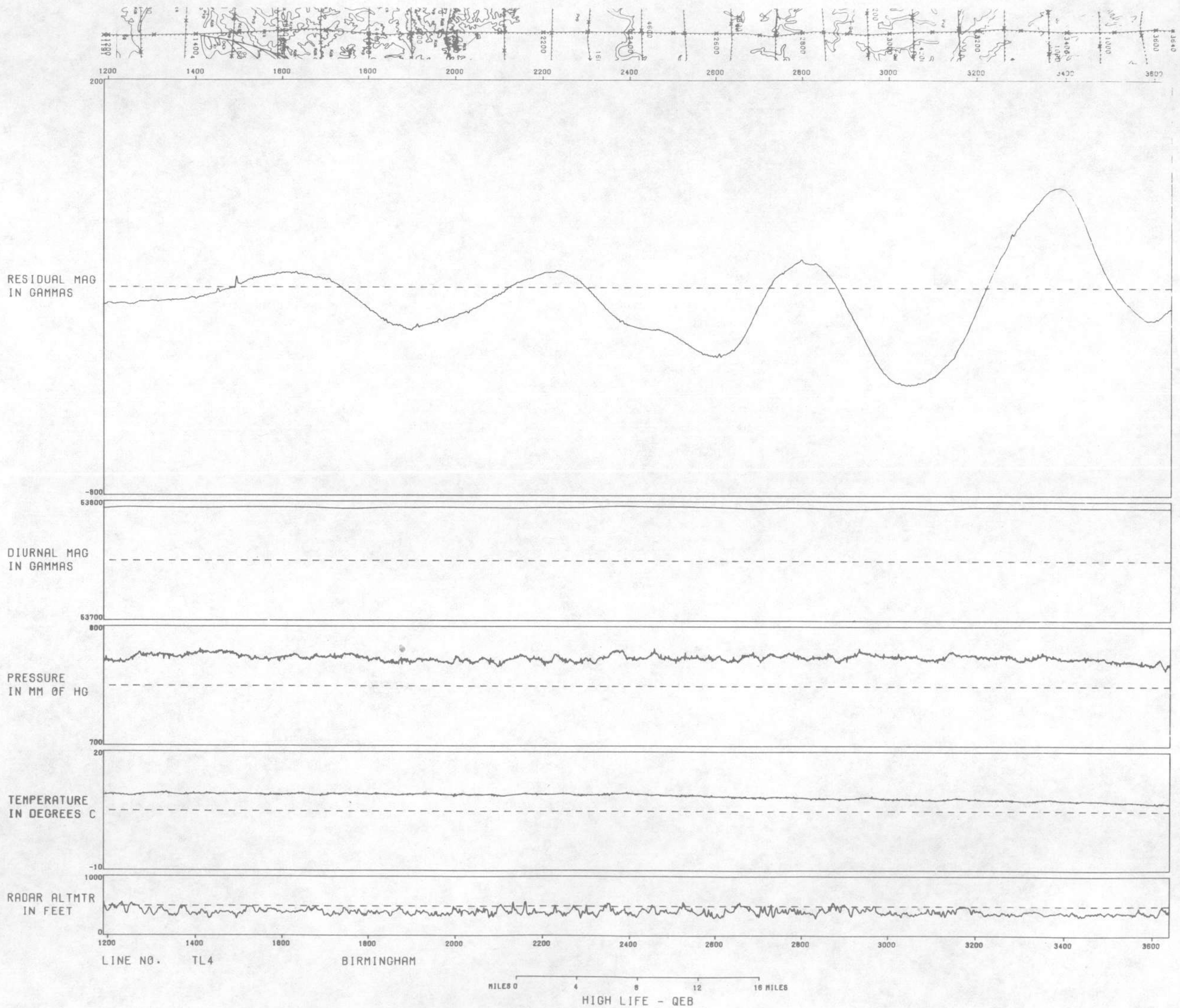
Function of Map Line for ppm eTh/%K


RESIDUAL MAG
IN GAMMAS
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
LINE NO. TL1S BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. TL1N BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB

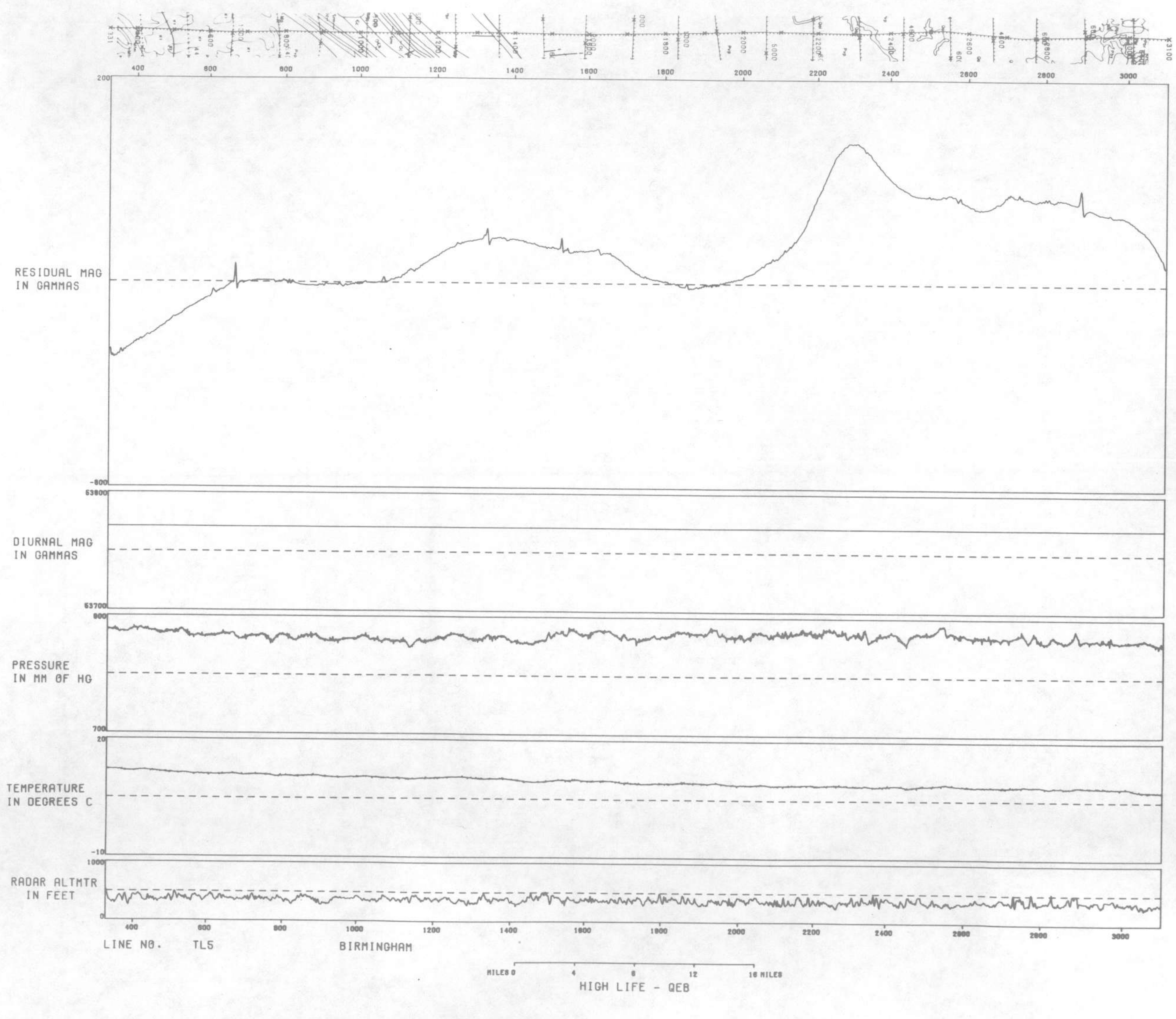


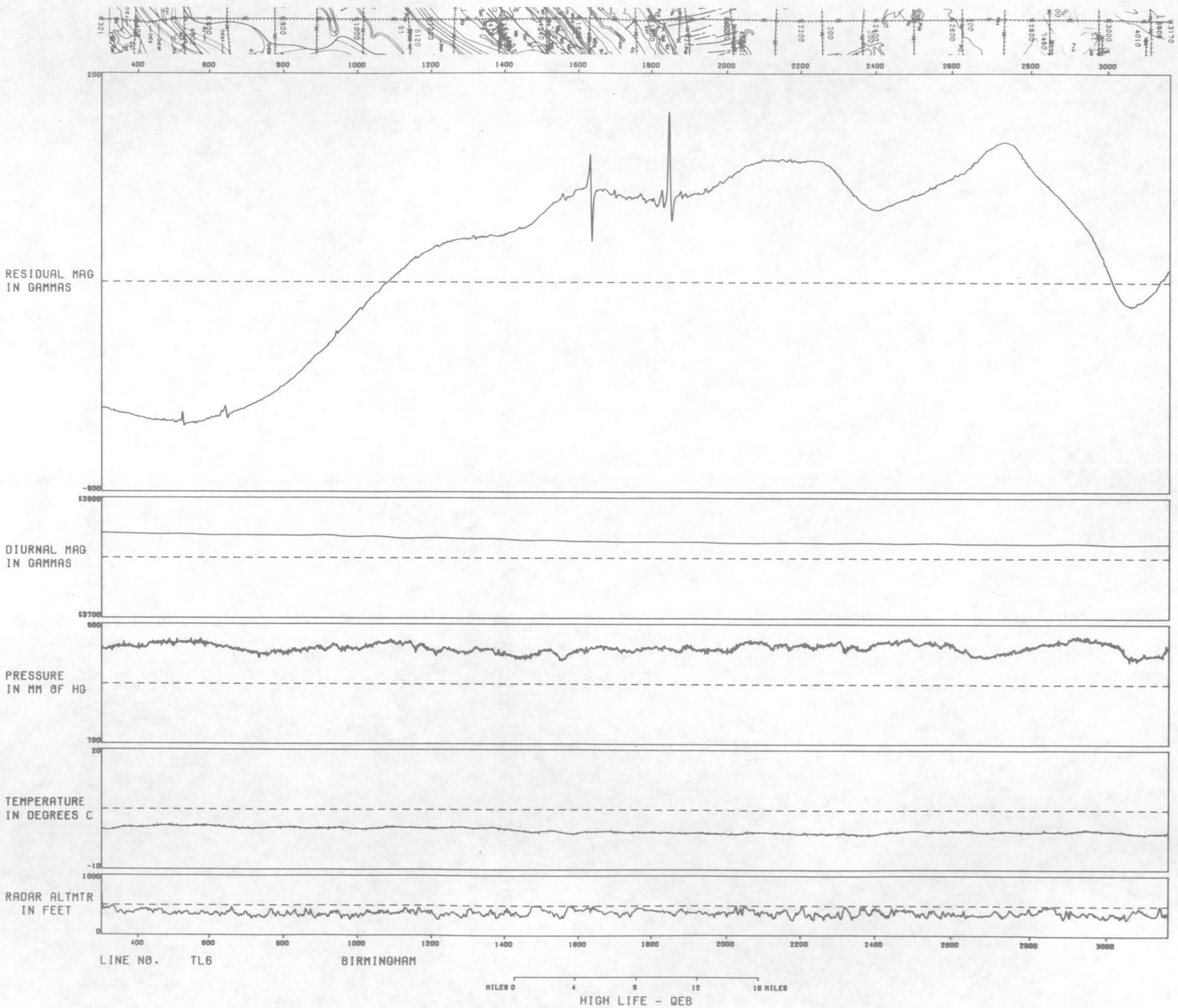
RESIDUAL MAG
IN GAMMAS
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
LINE NO. TL2S
BIRMINGHAM
HIGH LIFE - QEB
LINE NO. TL2N
BIRMINGHAM
HIGH LIFE - QEB

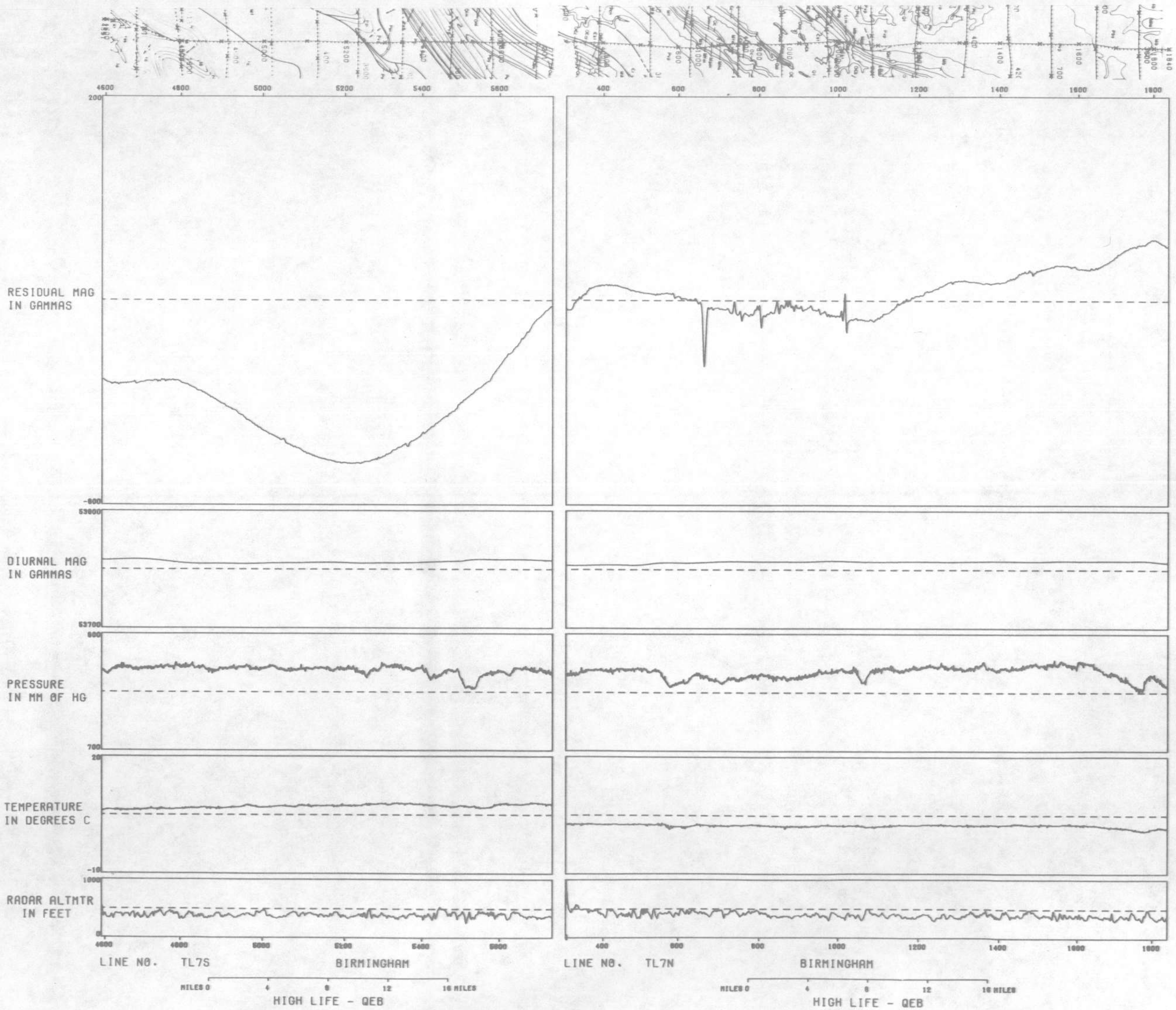

RESIDUAL MAG
IN GAMMAS
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
LINE NO. TL3S BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. TL3N BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB

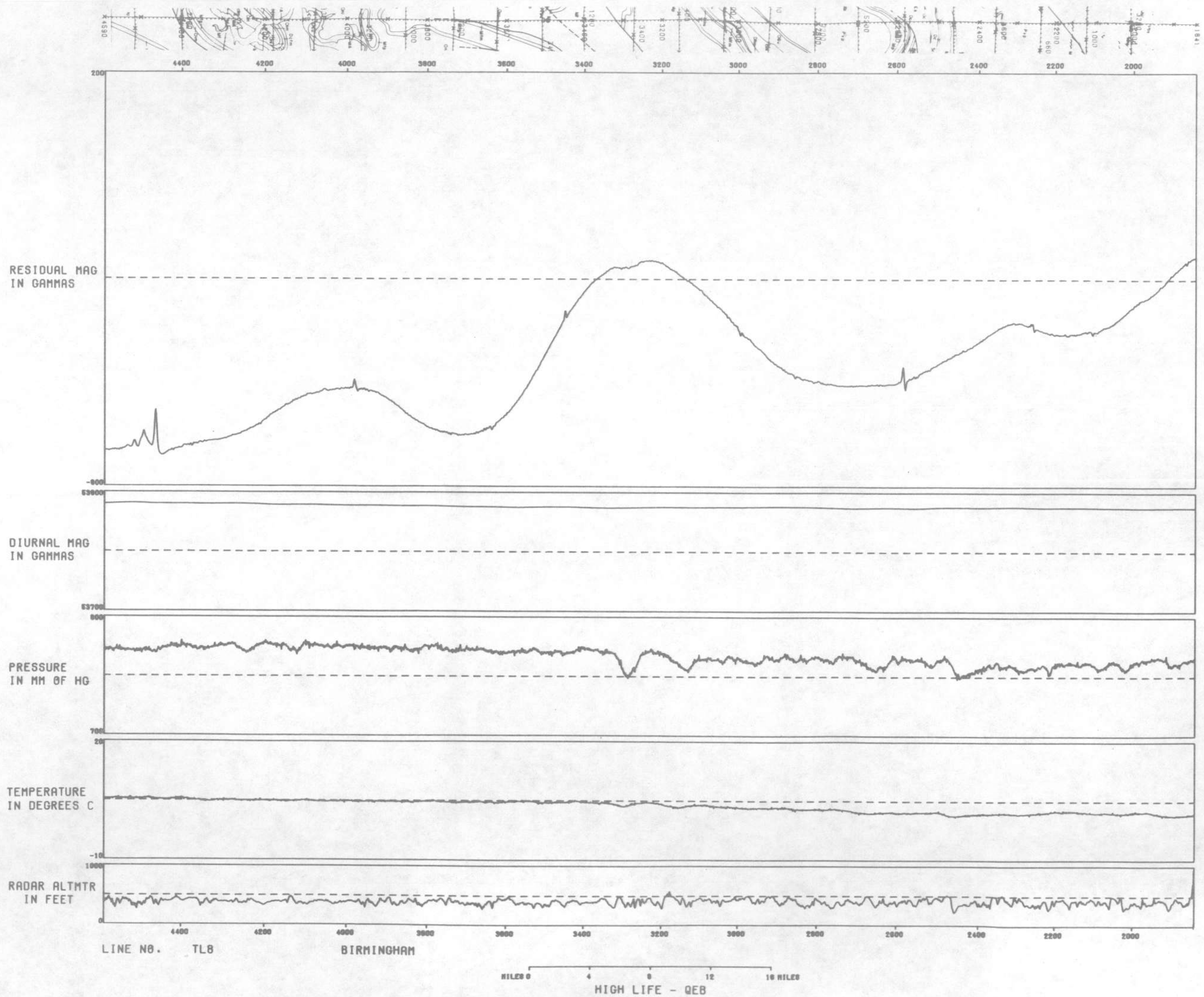


RESIDUAL MAG
IN GAMMAS
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
1200
1400
1600
1800
2000
2200
2400
2600
2800
3000
3200
3400
3600
200
-800
53800
53700
800
700
20
-10
1000
0
LINE NO. TL4
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB

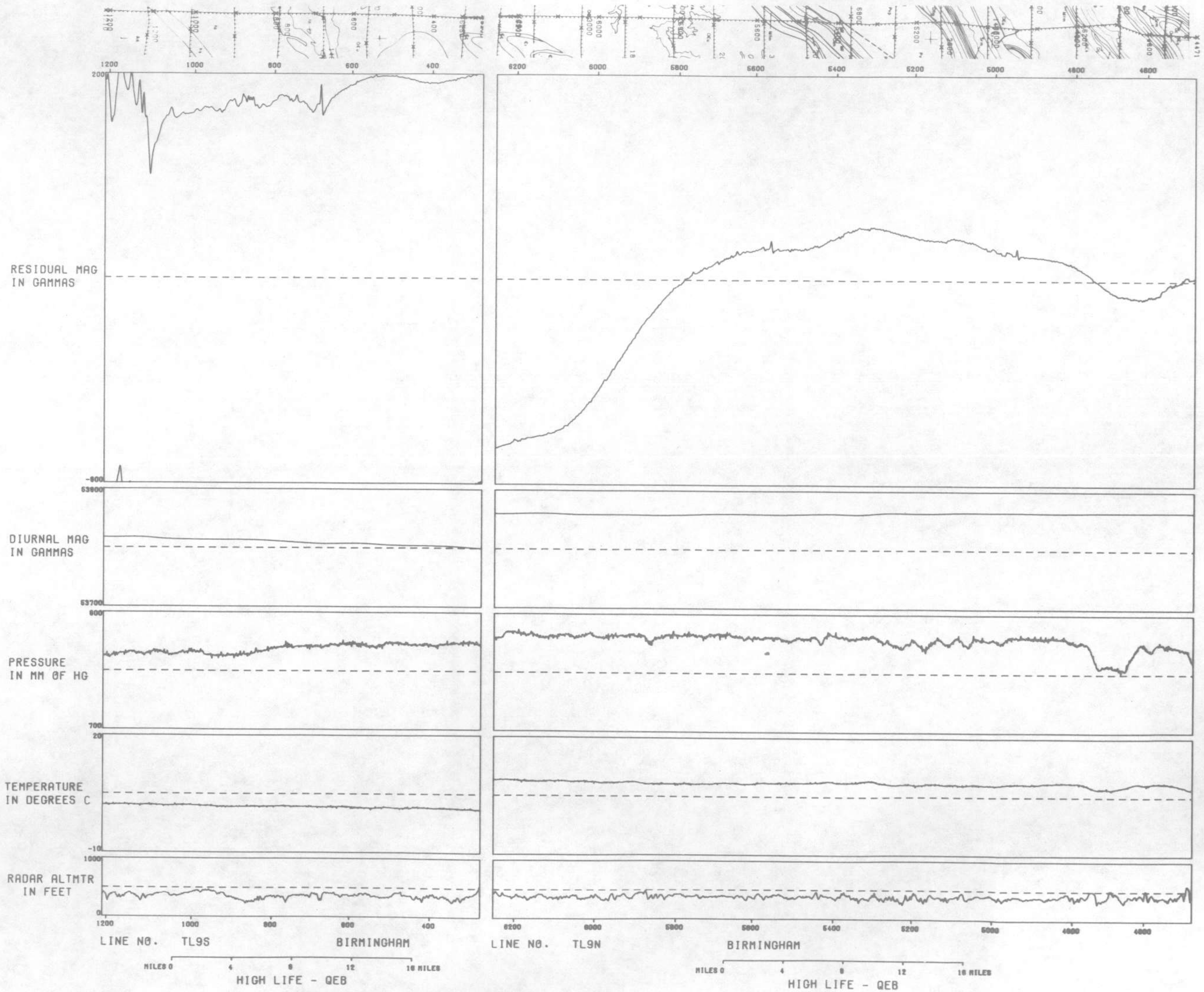

RESIDUAL MAG
IN GAMMAS
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
200
-800
63800
63700
800
700
20
-10
1000
0
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
2600
2800
3000
LINE NO. TL5
BIRMINGHAM
MILES 0
4
8
12
16 MILES
HIGH LIFE - QEB

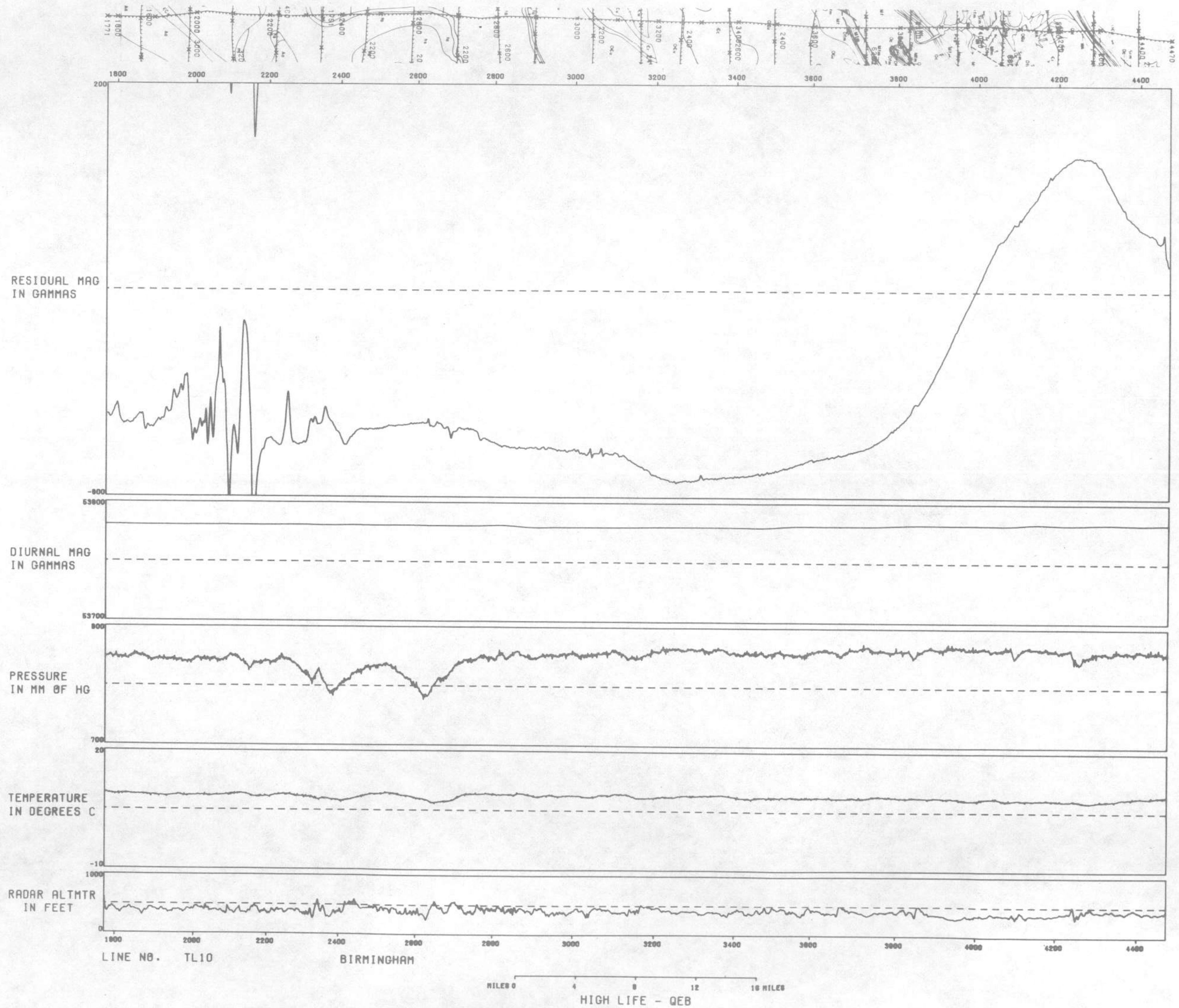

RESIDUAL MAG
IN GAMMAS
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
2600
2800
3000
LINE NO. TL6
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB


RESIDUAL MAG
IN GAMMAS
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
LINE NO. TL7S
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. TL7N
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB

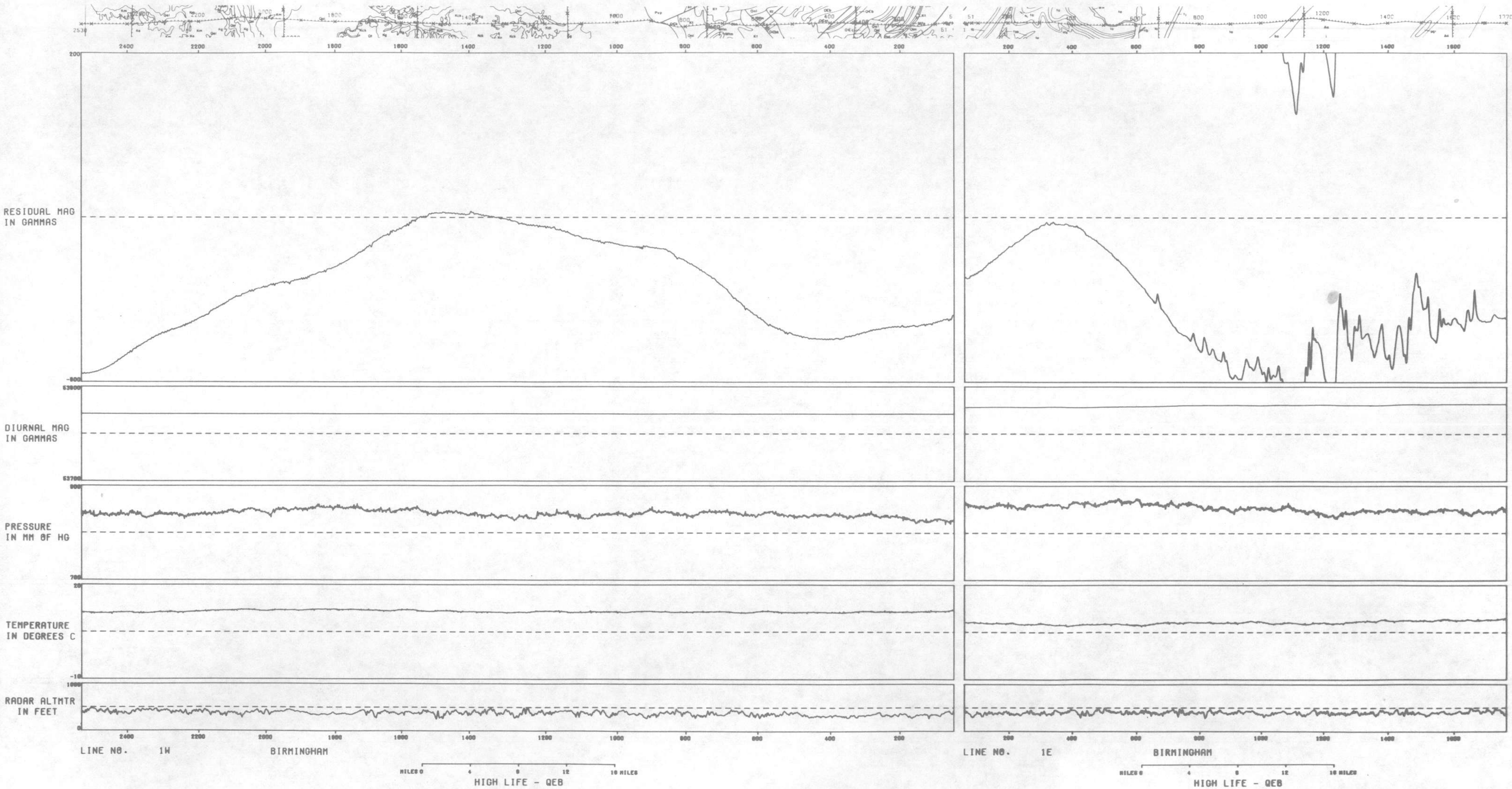


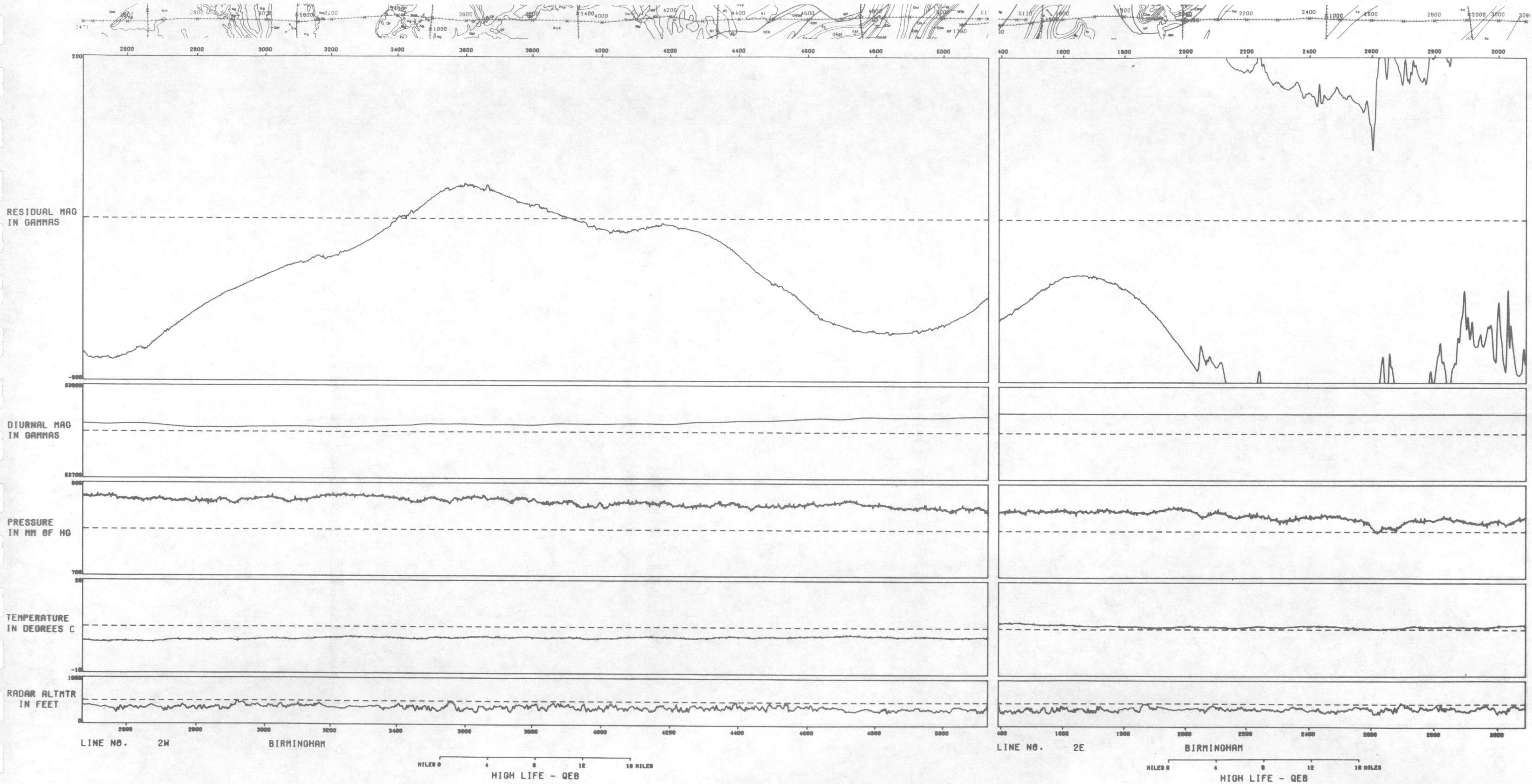
4400 4200 4000 3800 3600 3400 3200 3000 2800 2600 2400 2200 2000
RESIDUAL MAG
IN GAMMAS
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
LINE NO. TL8
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB

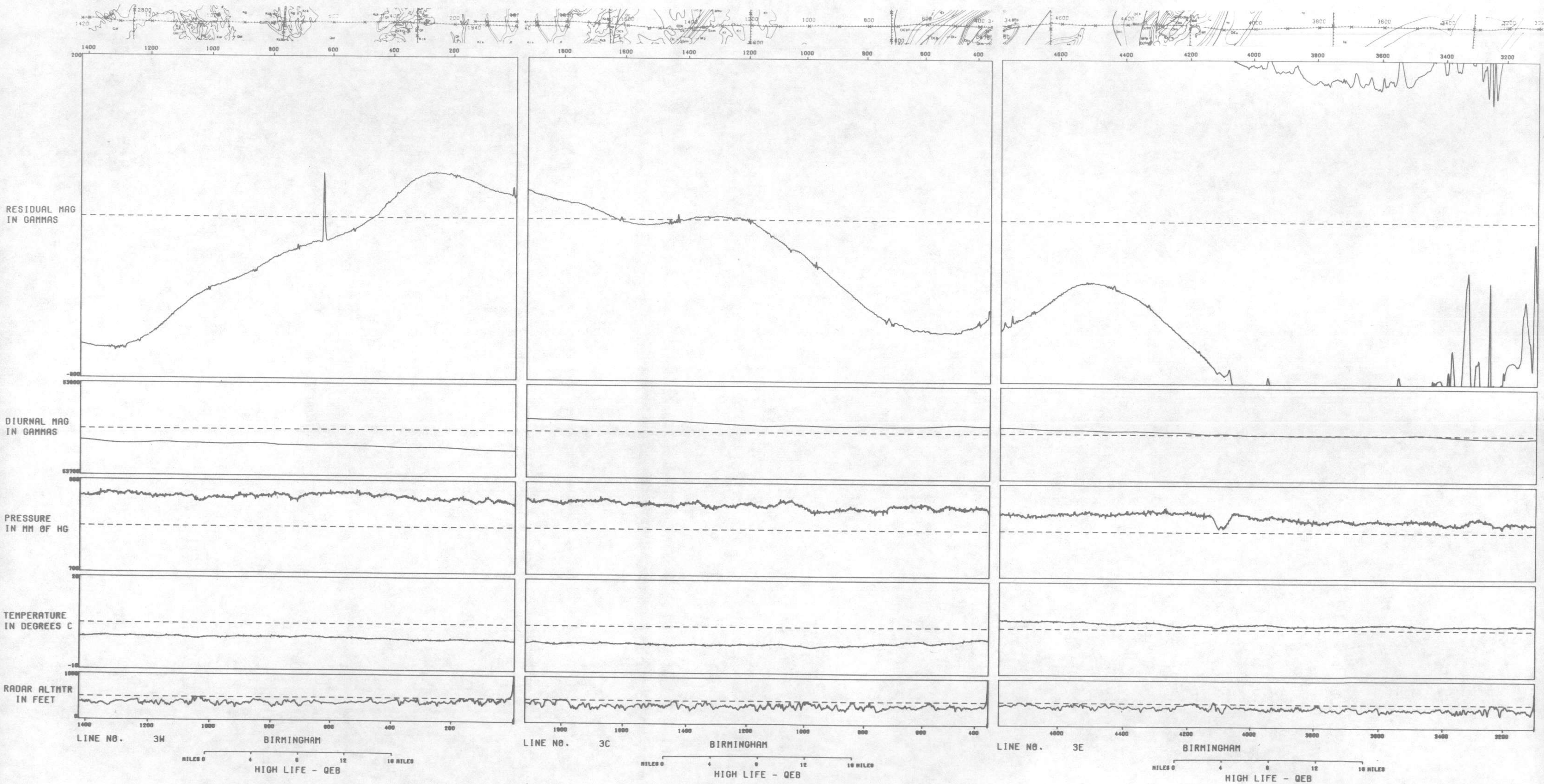

RESIDUAL MAG
IN GAMMAS
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
LINE NO. TL9S BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. TL9N BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB



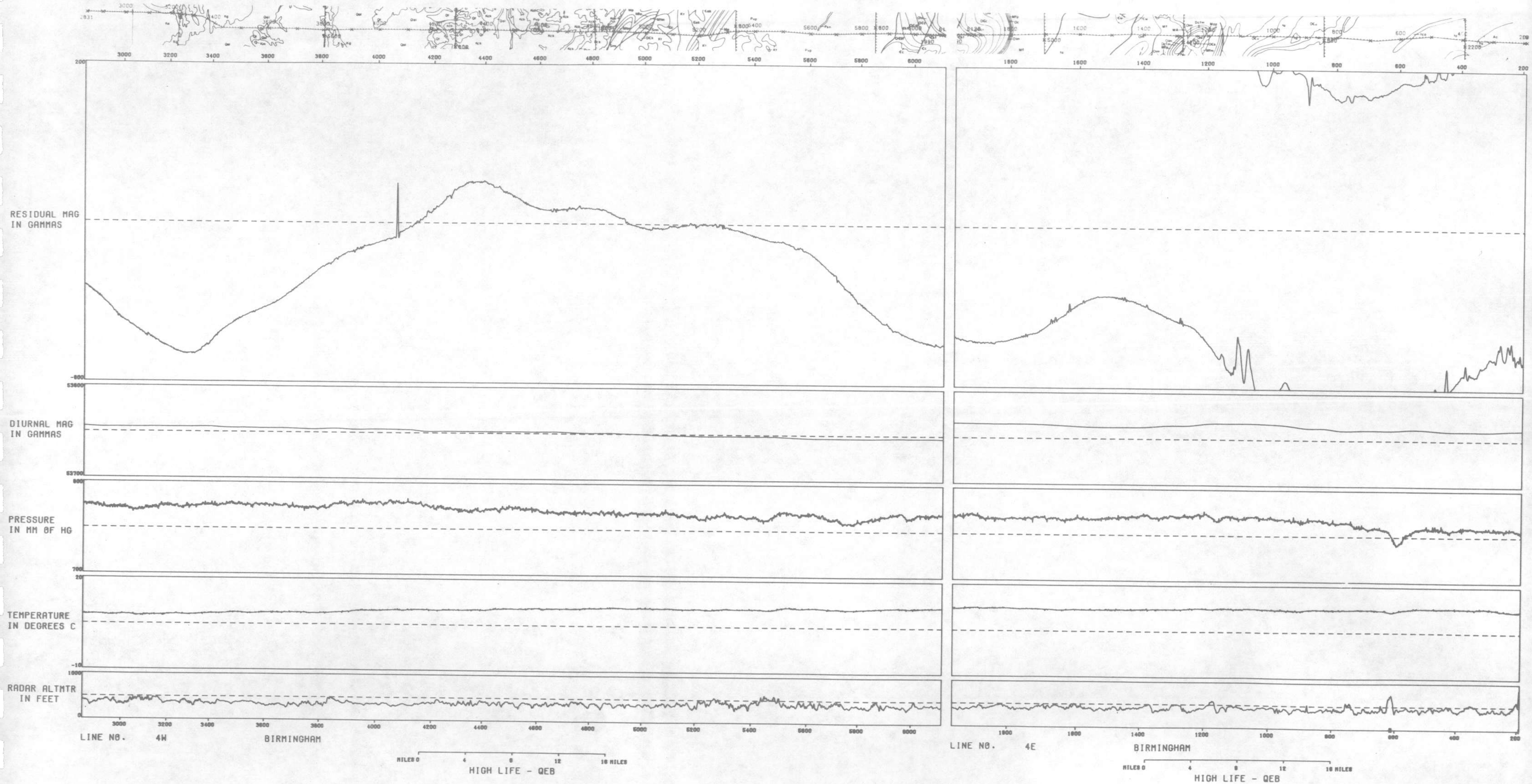
RESIDUAL MAG
IN GAMMAS
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
1800 2000 2200 2400 2600 2800 3000 3200 3400 3600 3800 4000 4200 4400
200
-800
53800
53700
800
700
20
-10
1000
0
LINE NO. TL10
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB

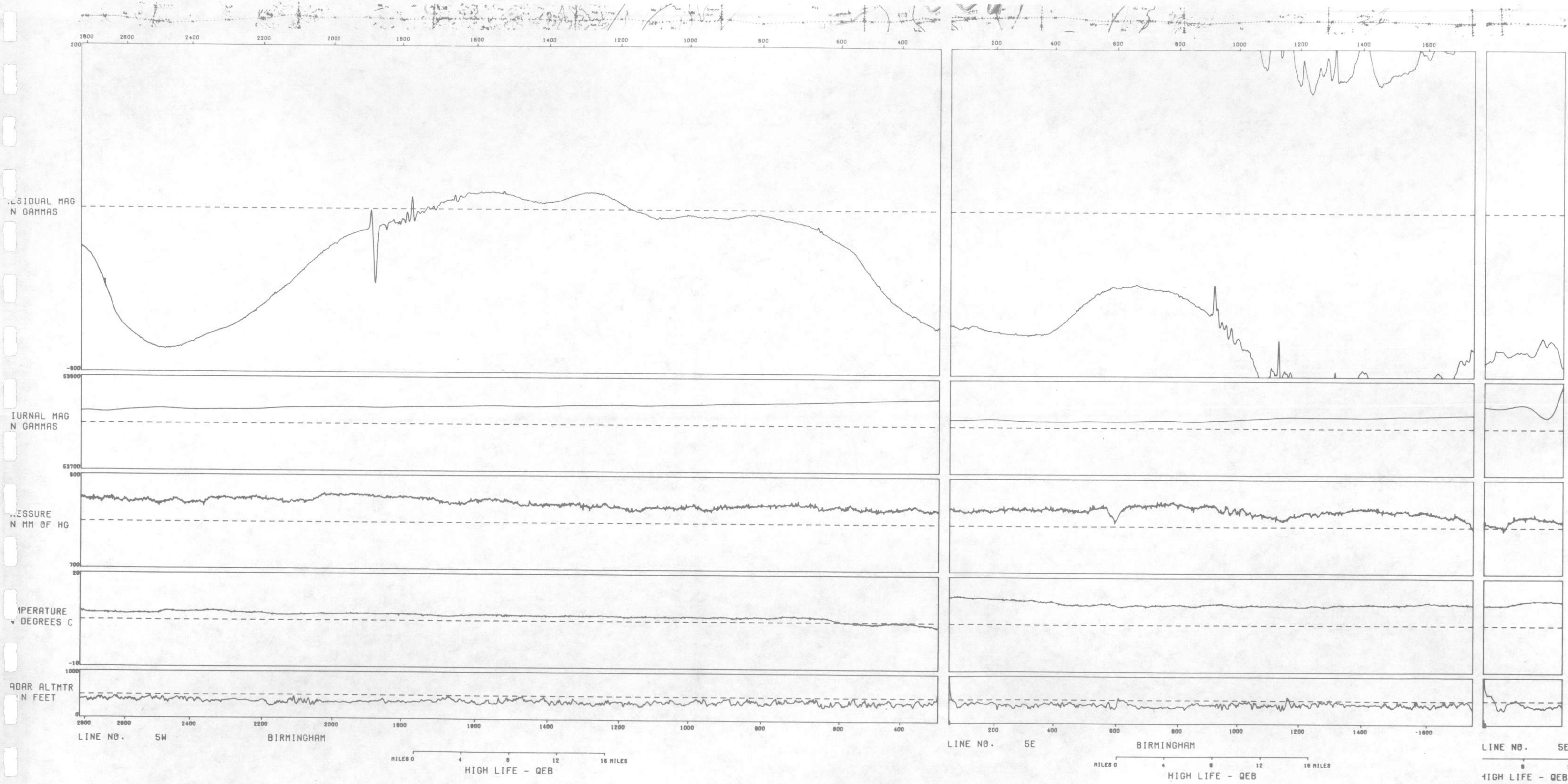

RESIDUAL MAG
IN GAMMAS
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
LINE NO. 1W
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. 1E
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB

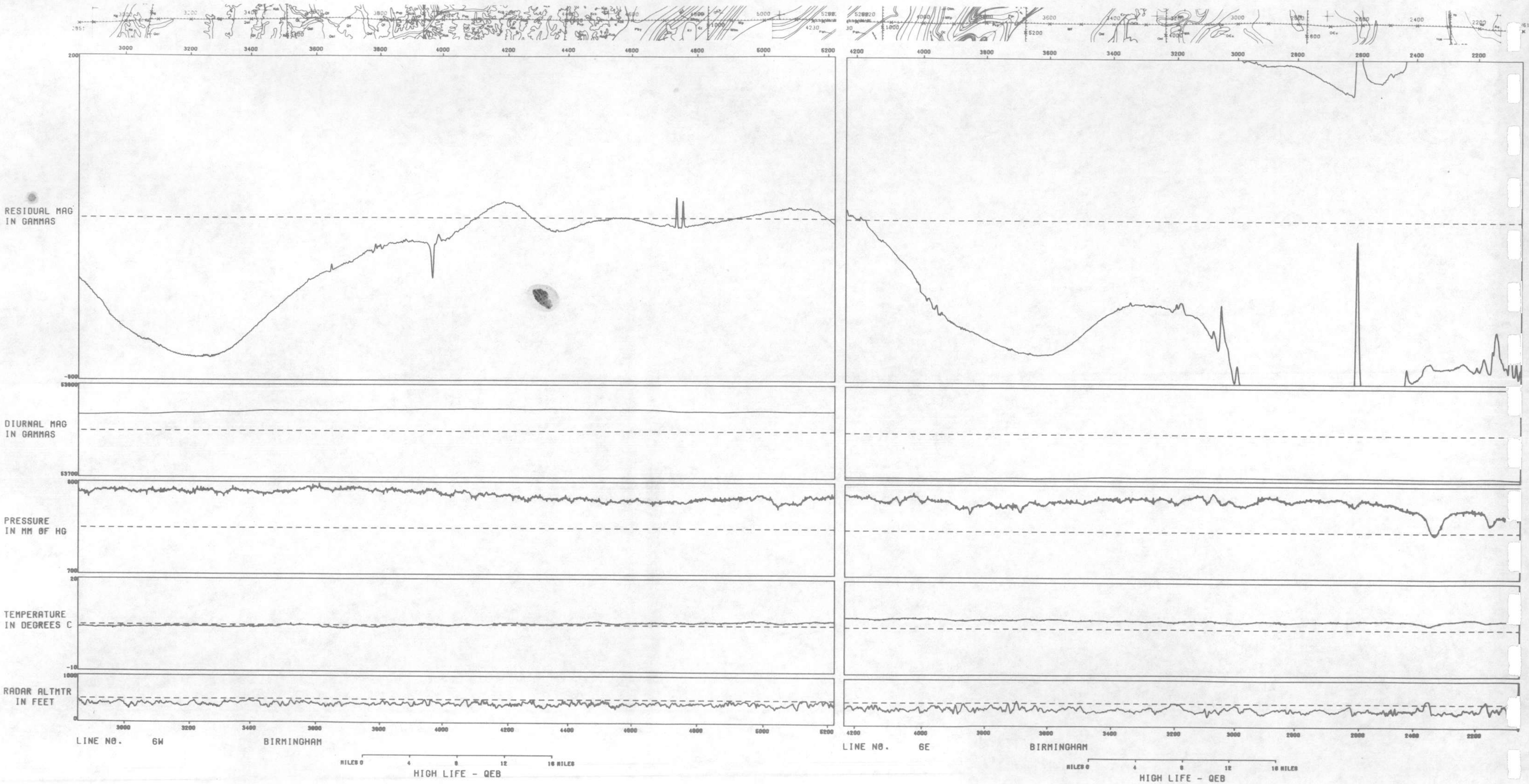

RESIDUAL MAG
IN GAMMAS
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
LINE NO. 2W
BIRMINGHAM
HIGH LIFE - QEB
LINE NO. 2E
BIRMINGHAM
HIGH LIFE - QEB

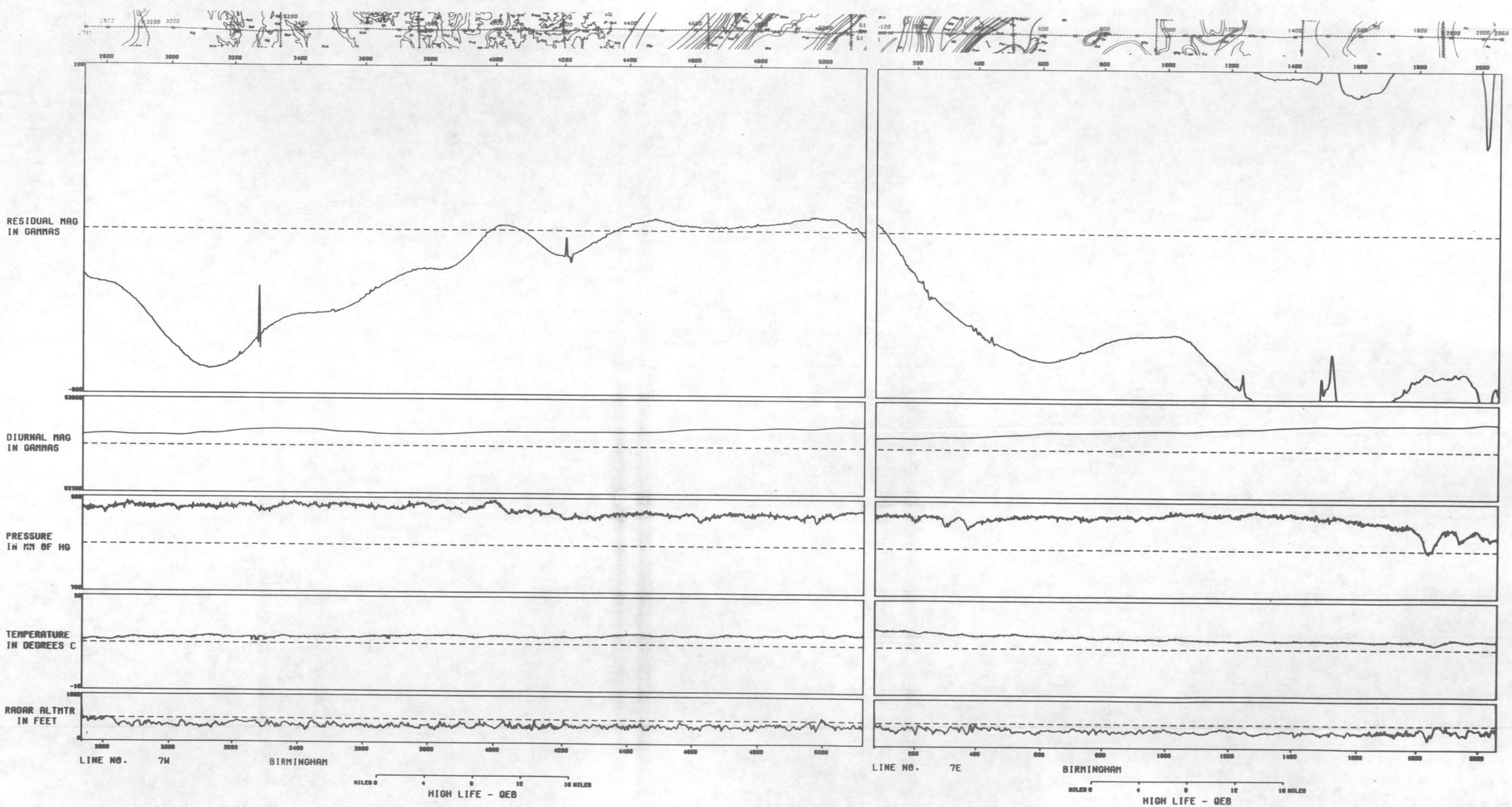


RESIDUAL MAG IN GAMMAS
DIURNAL MAG IN GAMMAS
PRESSURE IN MM OF HG
TEMPERATURE IN DEGREES C
RADAR ALTMTR IN FEET
LINE NO. 3W
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. 3C
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. 3E
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB

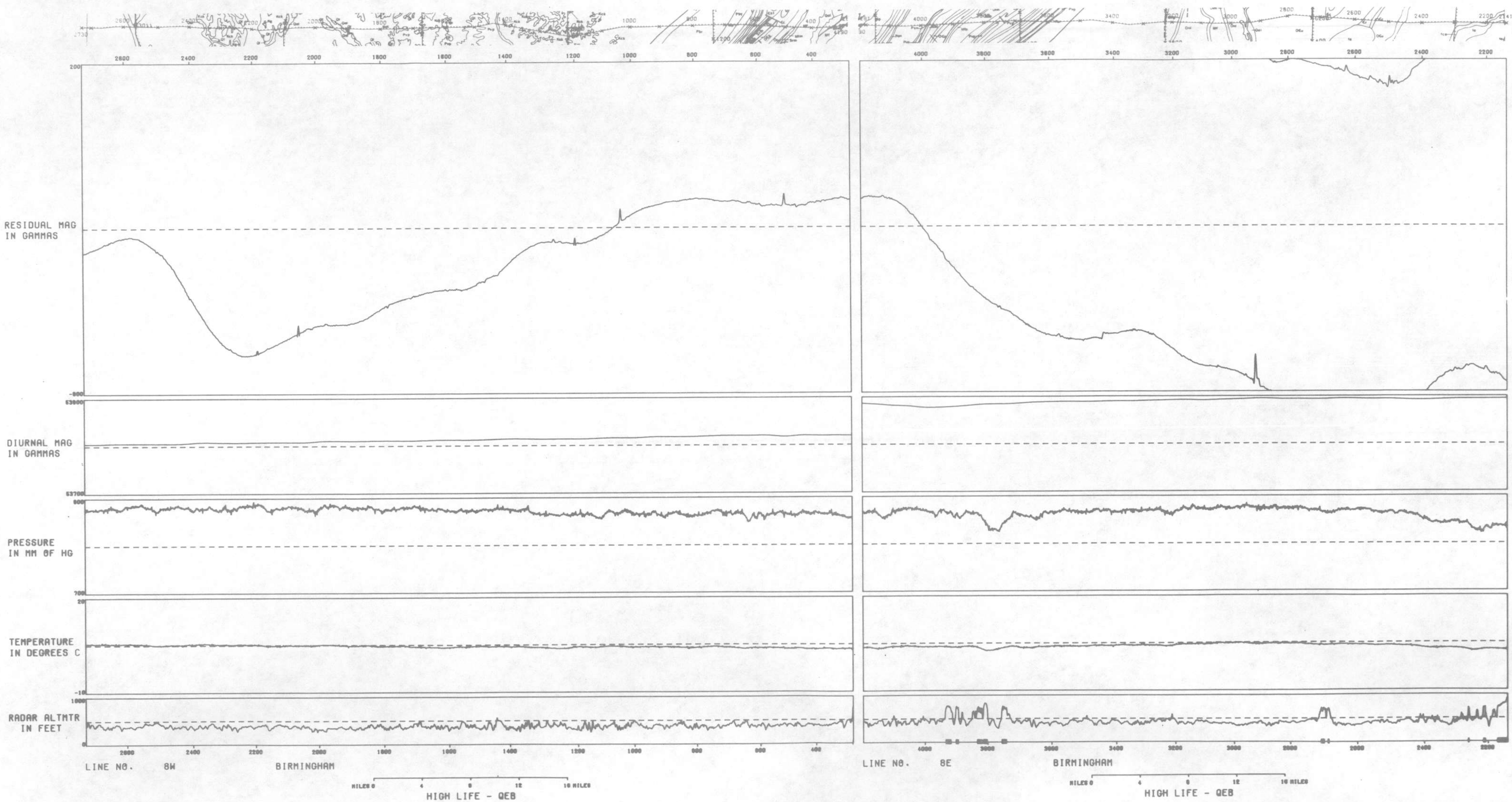

RESIDUAL MAG
IN GAMMAS
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
LINE NO. 4W
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. 4E
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB


ESIDUAL MAG
N GAMMAS
IURNAL MAG
N GAMMAS
ESSURE
N MM OF HG
MPERATURE
DEGREES C
ADAR ALTMTR
N FEET
LINE NO. 5W
BIRMINGHAM
HIGH LIFE - QEB
LINE NO. 5E
BIRMINGHAM
HIGH LIFE - QEB
LINE NO. 5E
HIGH LIFE - QEB


RESIDUAL MAG
IN GAMMAS
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
LINE NO. 6W
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. 6E
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB



RESIDUAL MAG IN GAMMAS
DIURNAL MAG IN GAMMAS
PRESSURE IN MM OF HG
TEMPERATURE IN DEGREES C
RADAR ALTMTR IN FEET
LINE NO. 7W
BIRMINGHAM
HIGH LIFE - QEB
LINE NO. 7E
BIRMINGHAM
HIGH LIFE - QEB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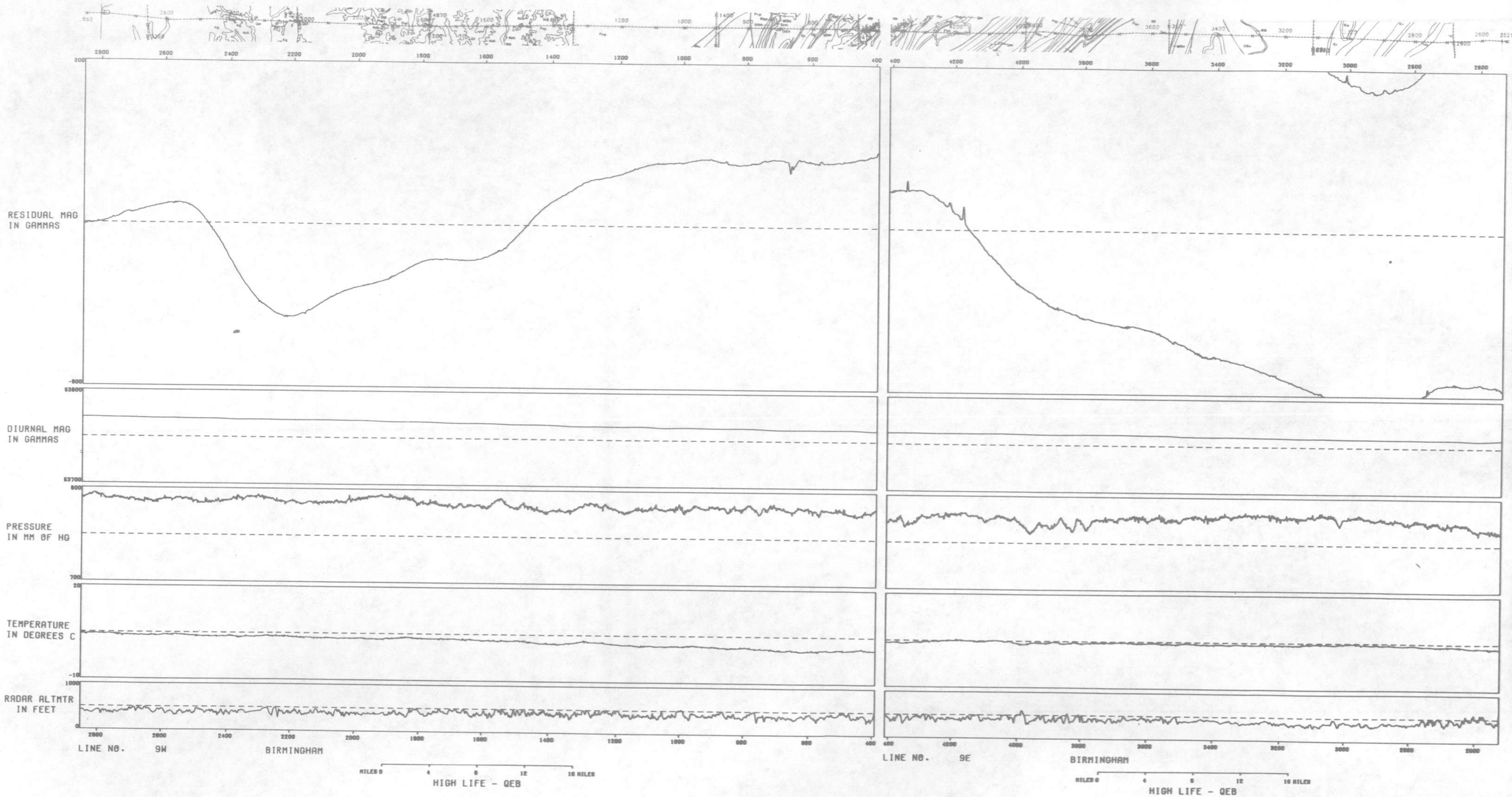
IN GAMMAS
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
LINE NO. 8W
BIRMINGHAM
HIGH LIFE - QEB
LINE NO. 8E
BIRMINGHAM
HIGH LIFE - QEB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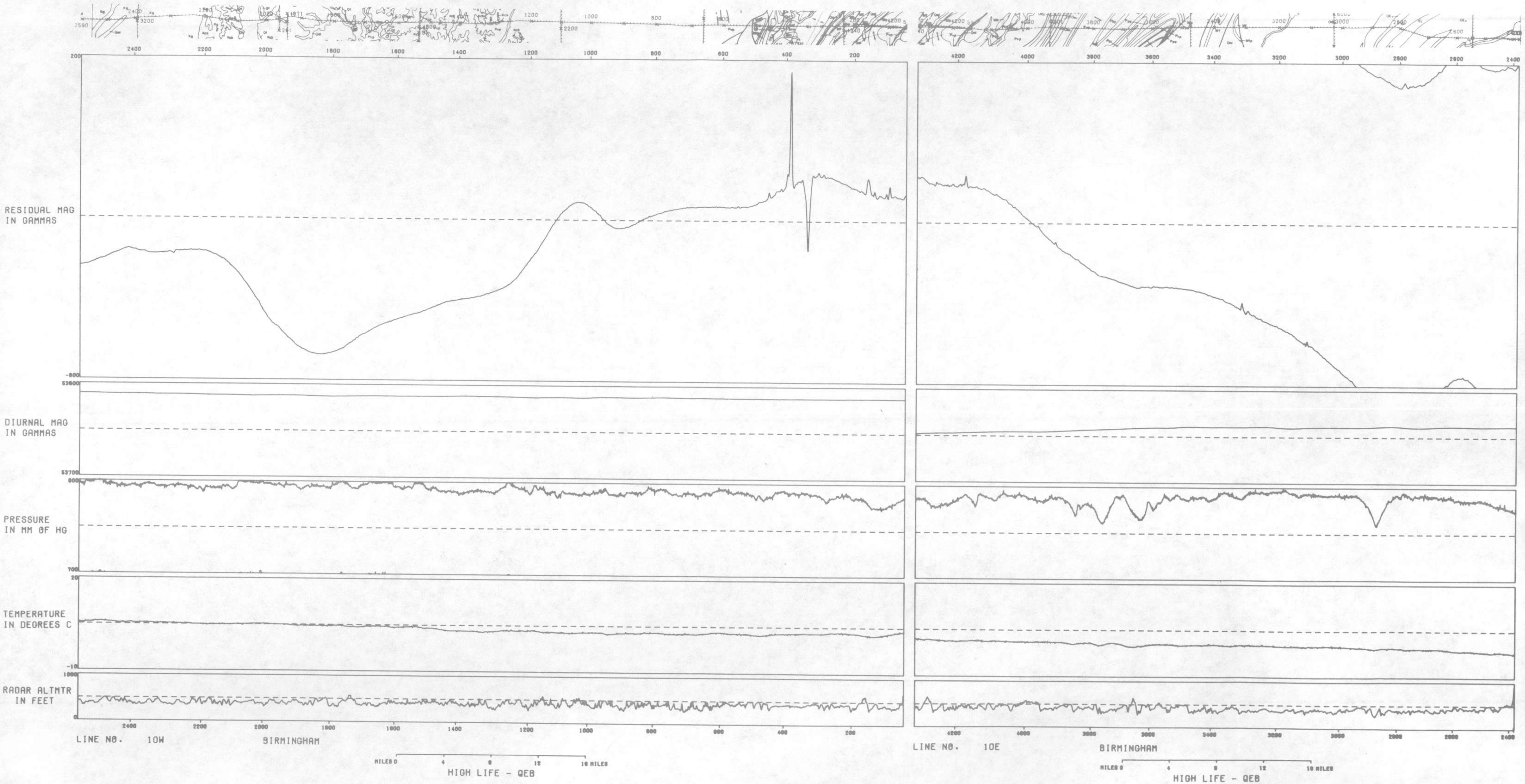
IN GAMMAS
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
LINE NO. 9W
BIRMINGHAM
HIGH LIFE - QEB
LINE NO. 9E
BIRMINGHAM
HIGH LIFE - QEB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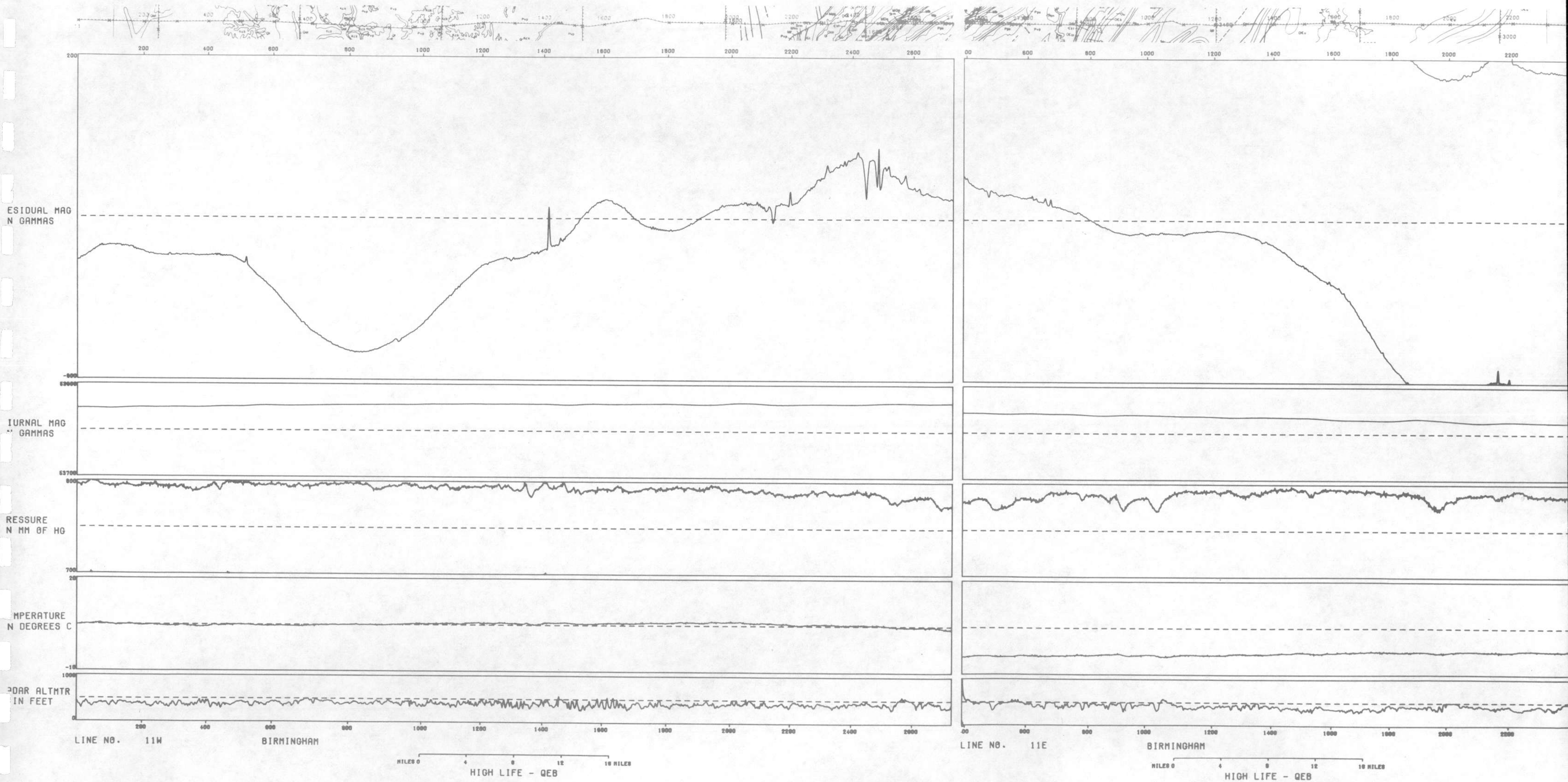
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
LINE NO. 10W
BIRMINGHAM
HIGH LIFE - QEB
LINE NO. 10E
BIRMINGHAM
HIGH LIFE - QEB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N GAMMAS
IURNAL MAG
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RESSURE
N MM OF HG
MPERATURE
N DEGREES C
DAR ALTMTR
IN FEET
LINE NO. 11W
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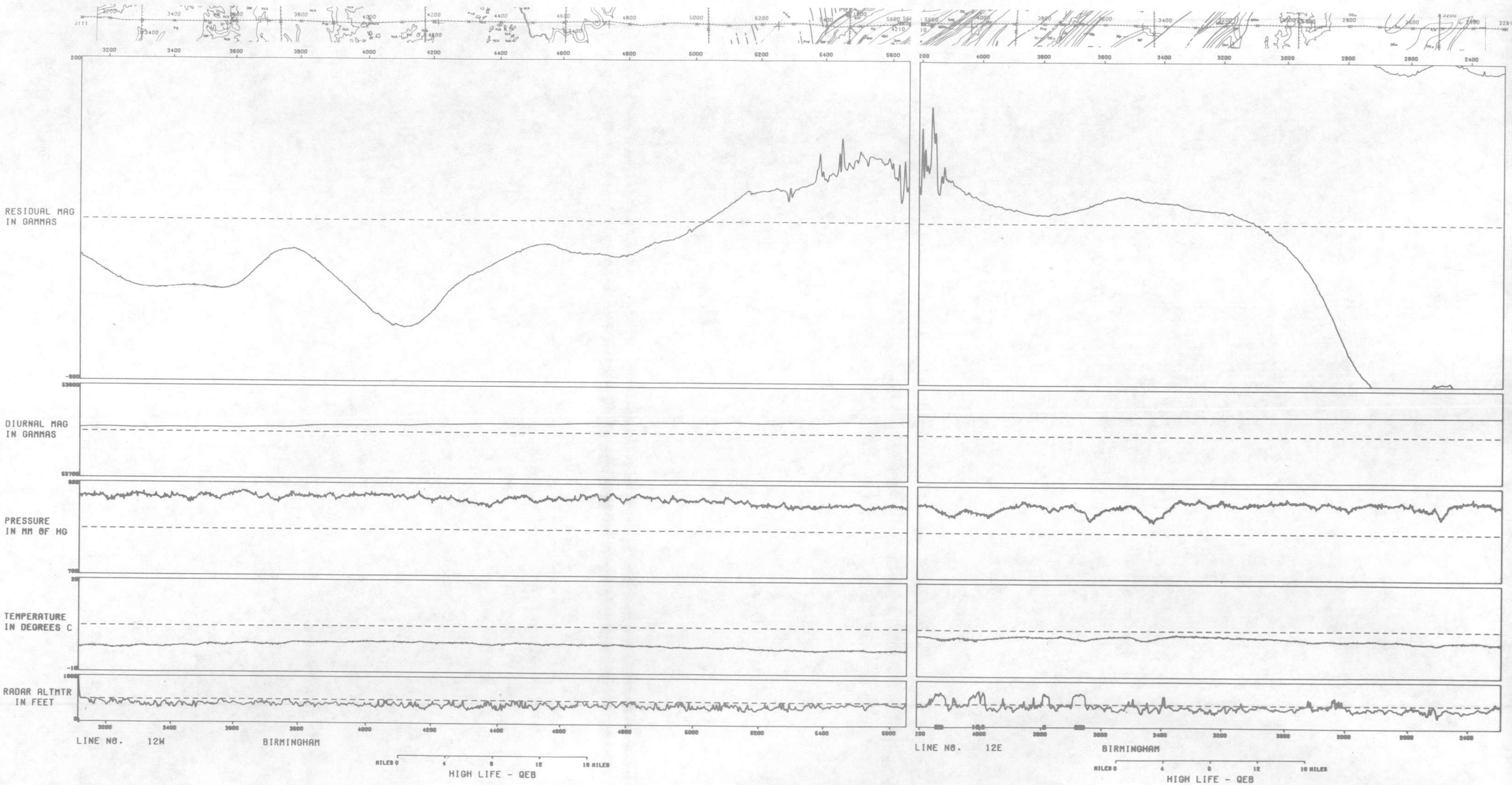
HIGH LIFE - QEB
LINE NO. 11E
BIRMINGHAM
HIGH LIFE - QEB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DIURNAL MAG IN GAMMAS
PRESSURE IN MM OF HG
TEMPERATURE IN DEGREES C
RADAR ALTMTR IN FEET
LINE NO. 12W
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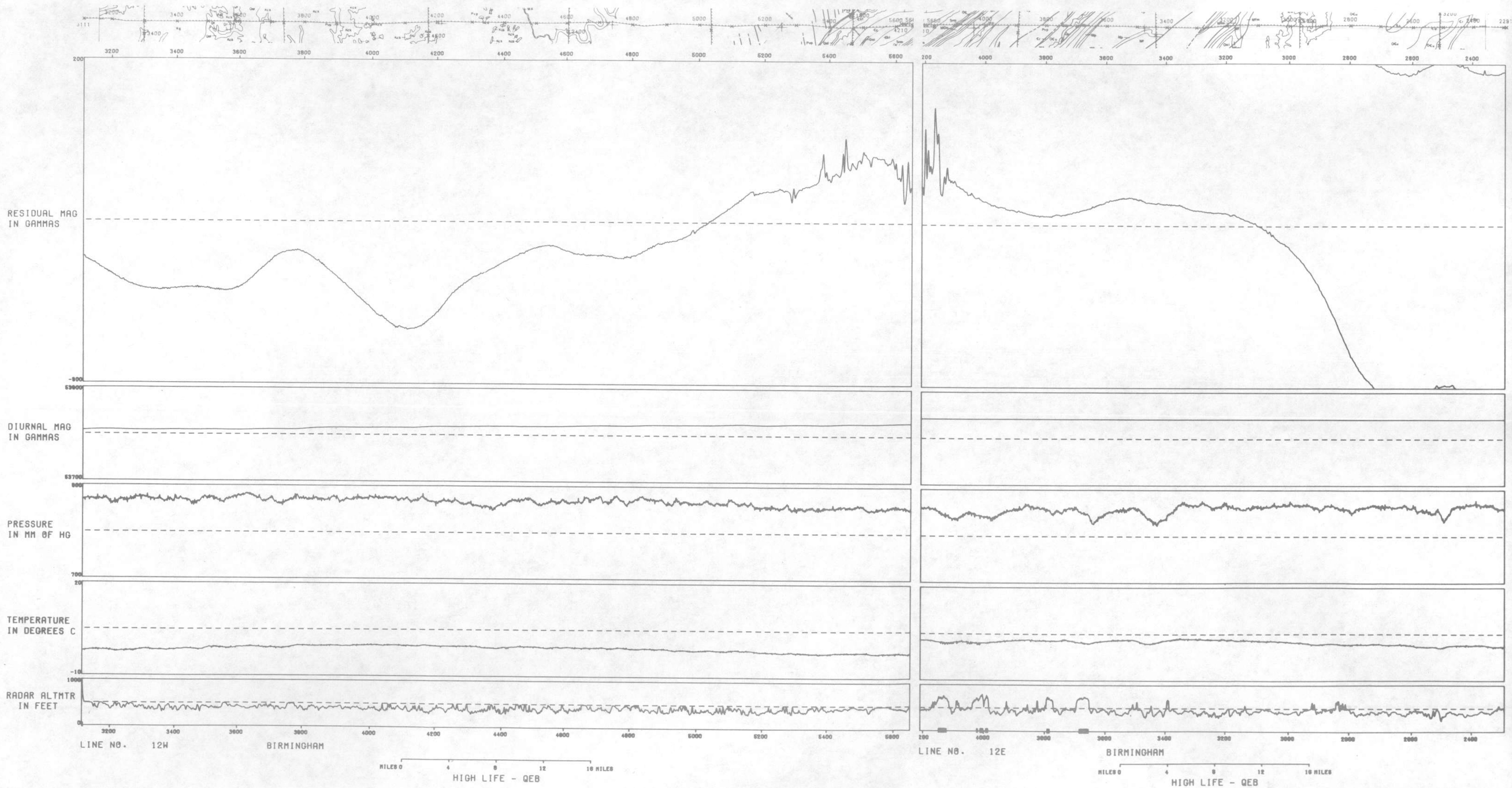
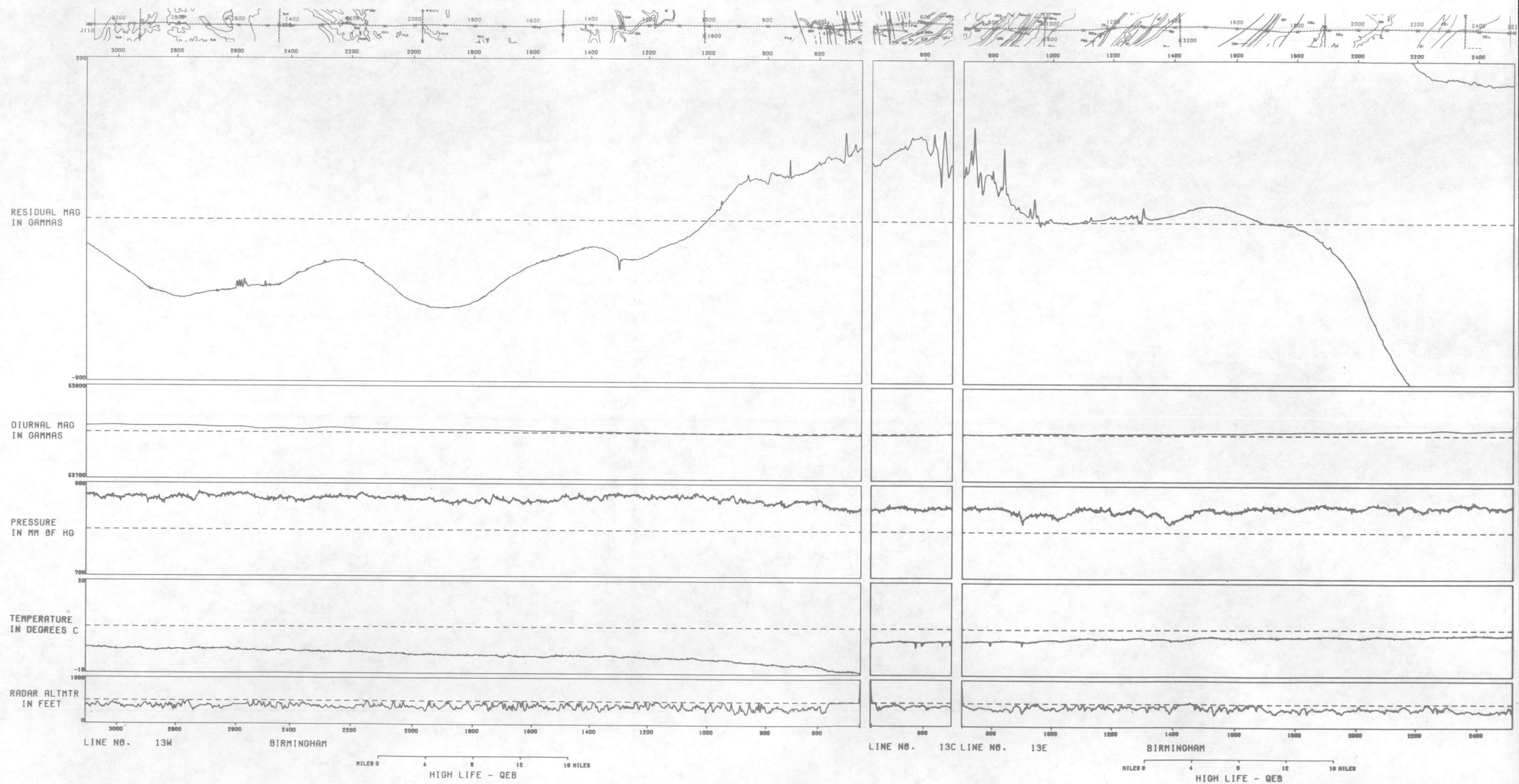
HIGH LIFE - QEB
LINE NO. 12E
BIRMINGHAM
HIGH LIFE - QEB



RESIDUAL MAG
IN GAMMAS
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
LINE NO. 12W
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. 12E
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB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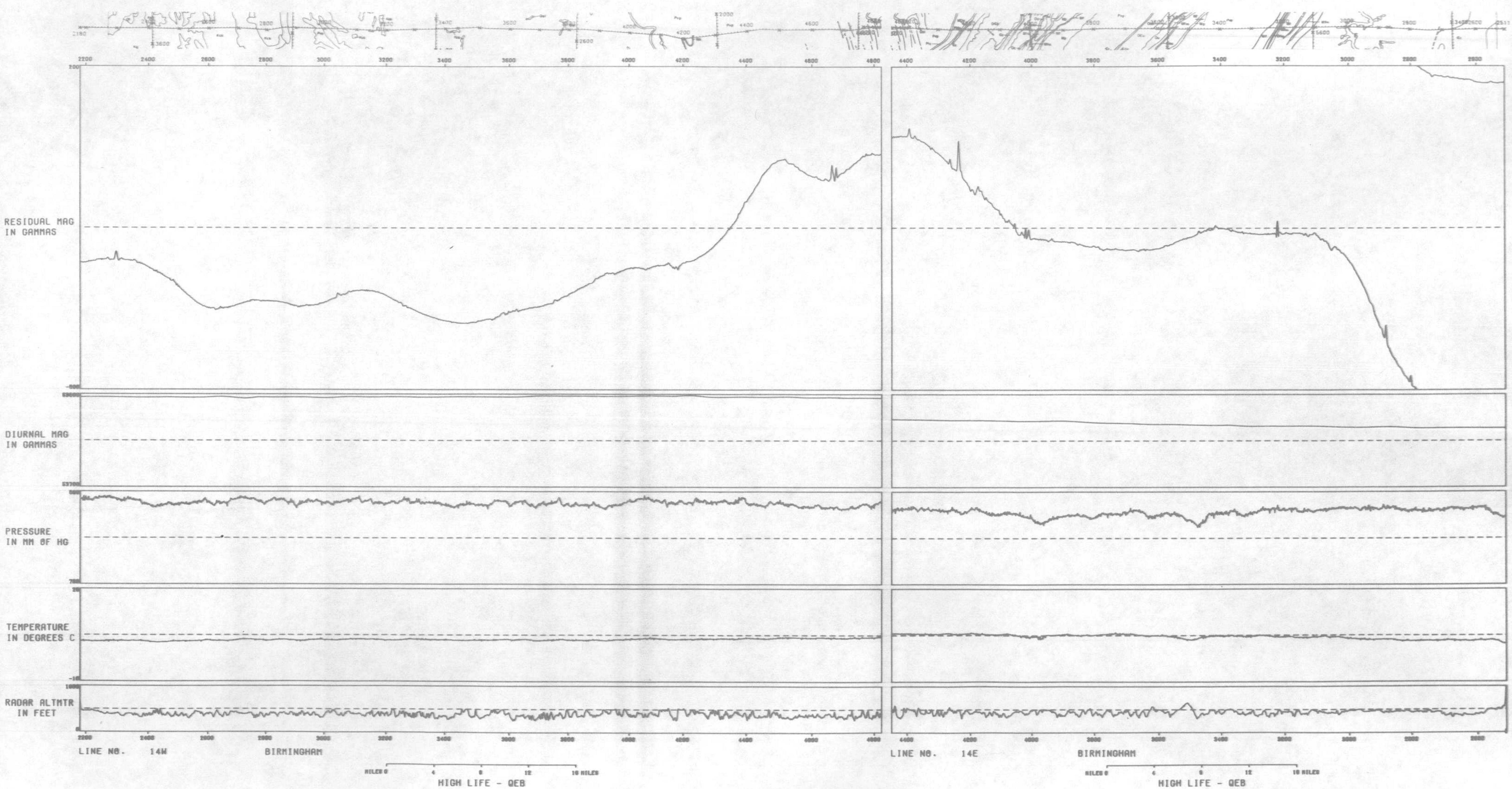
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
LINE NO. 13W
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. 13C
LINE NO. 13E
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB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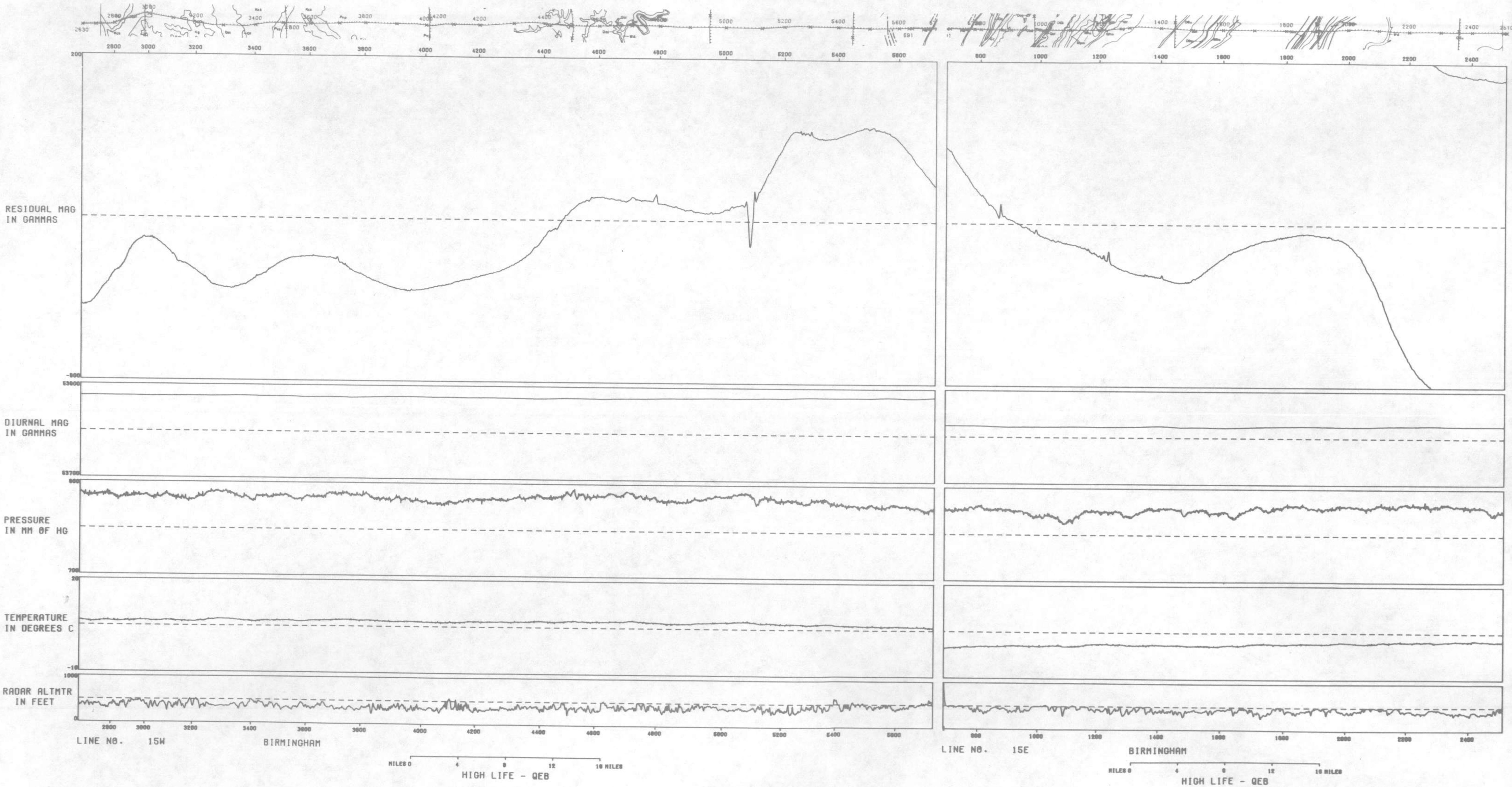
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
LINE NO. 14W
BIRMINGHAM
HIGH LIFE - QEB
LINE NO. 14E
BIRMINGHAM
HIGH LIFE - QEB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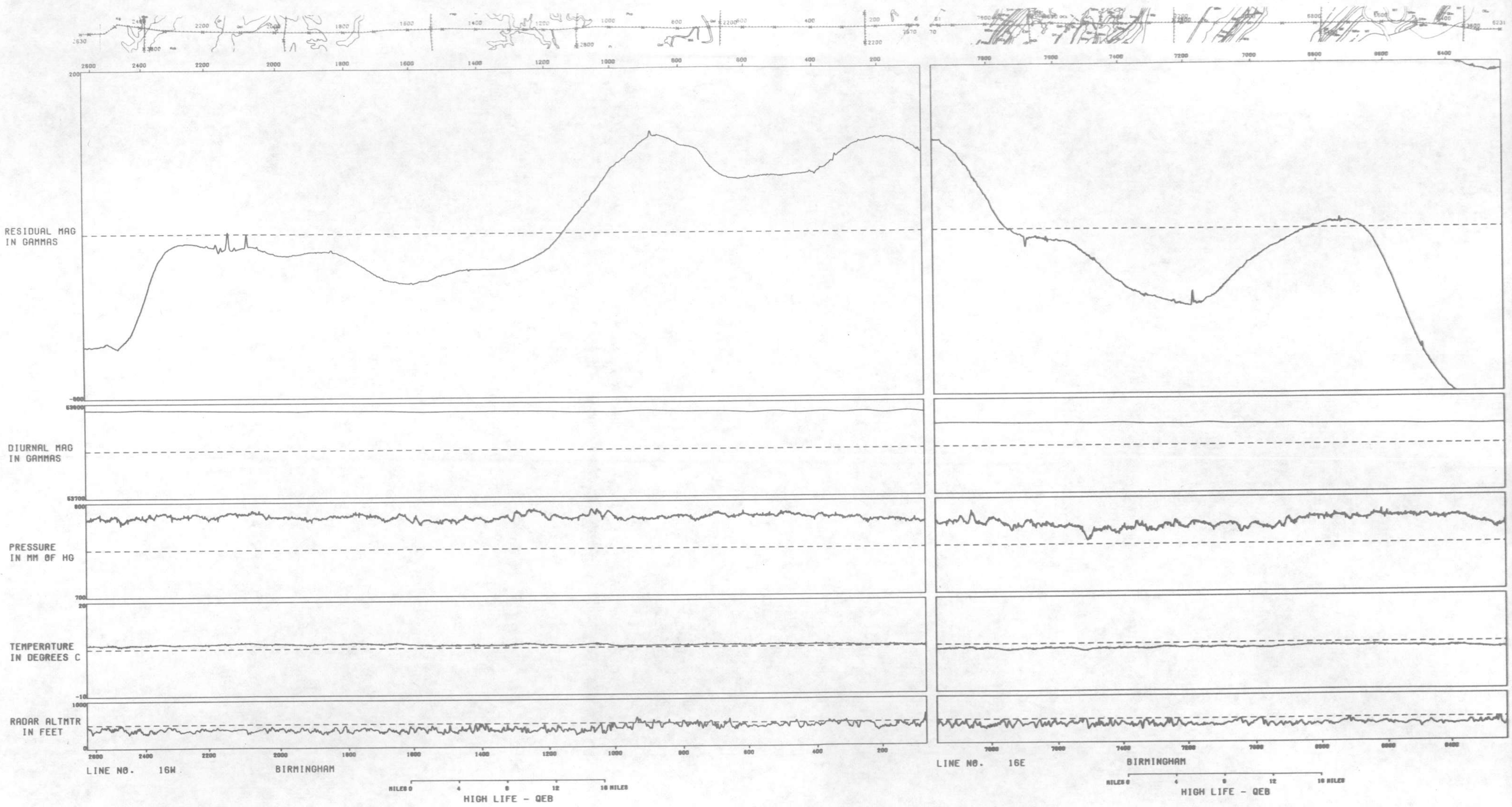
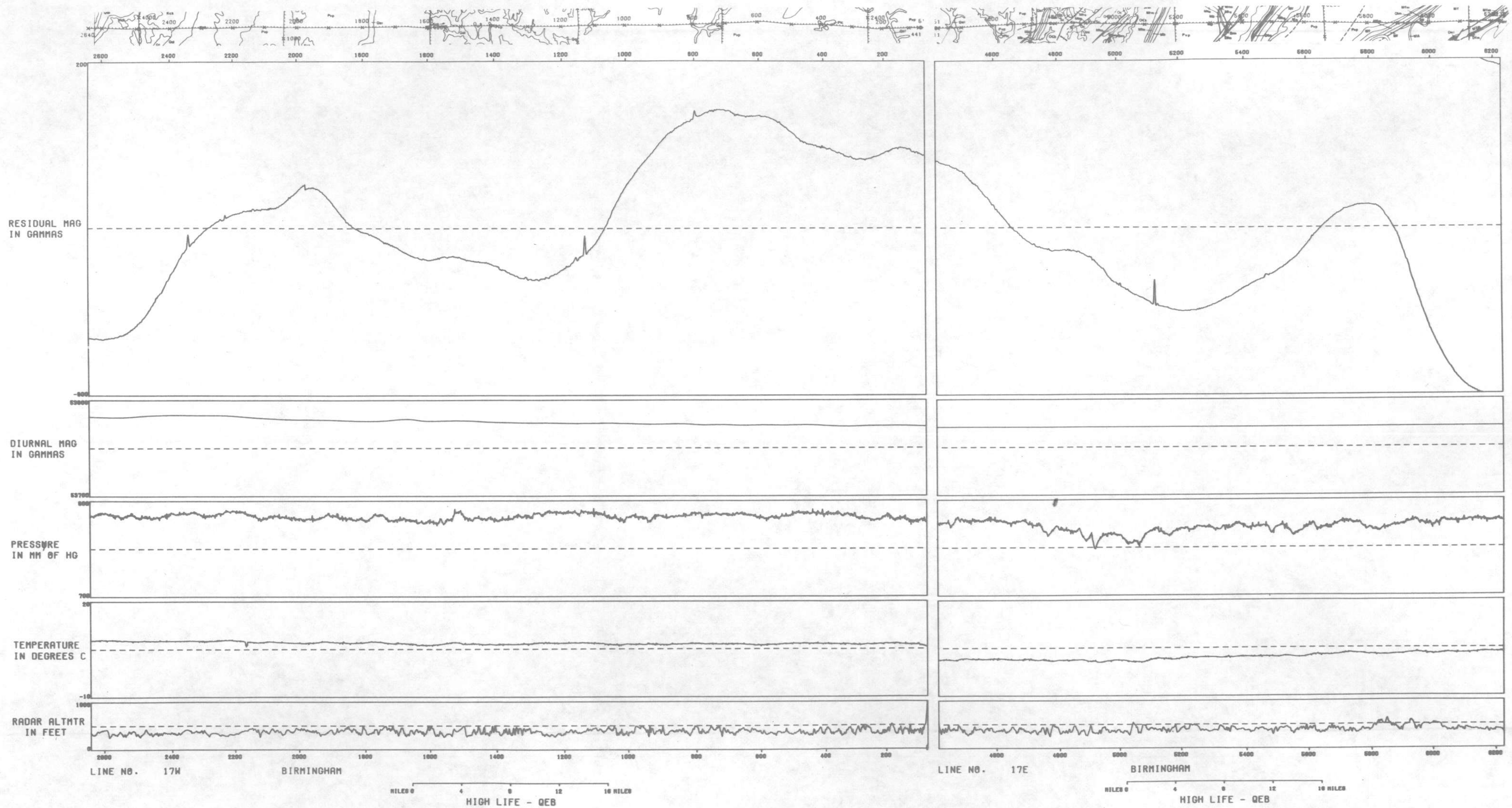
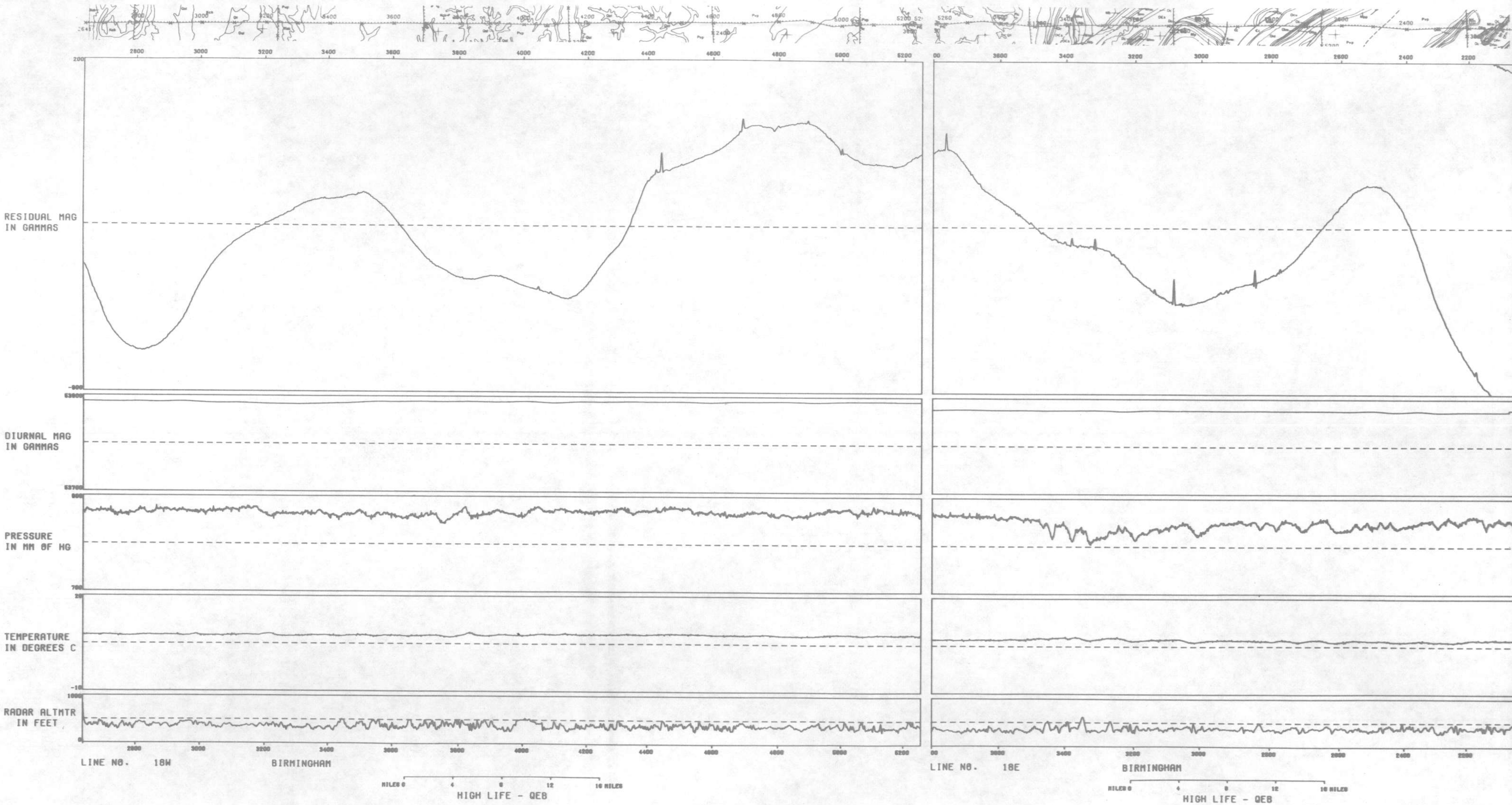
IN GAMMAS
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
LINE NO. 15W
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. 15E
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB



RESIDUAL MAG
IN GAMMAS
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
LINE NO. 16W
BIRMINGHAM
HIGH LIFE - QEB
LINE NO. 16E
BIRMINGHAM
HIGH LIFE - QEB



RESIDUAL MAG
IN GAMMAS
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
LINE NO. 17W
BIRMINGHAM
HIGH LIFE - QEB
LINE NO. 17E
BIRMINGHAM
HIGH LIFE - QEB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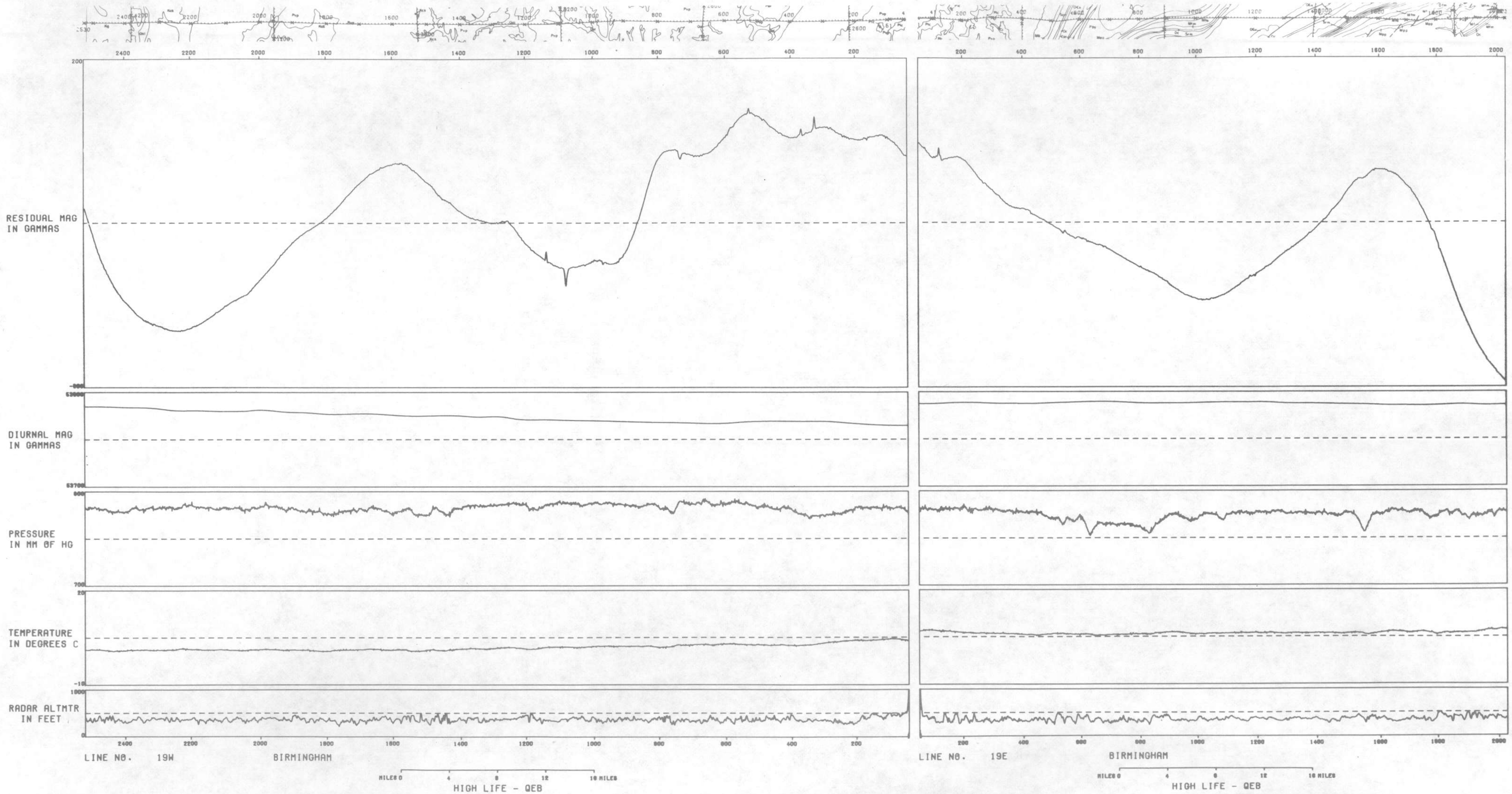
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
LINE NO. 18W
BIRMINGHAM
HIGH LIFE - QEB
LINE NO. 18E
BIRMINGHAM
HIGH LIFE - QEB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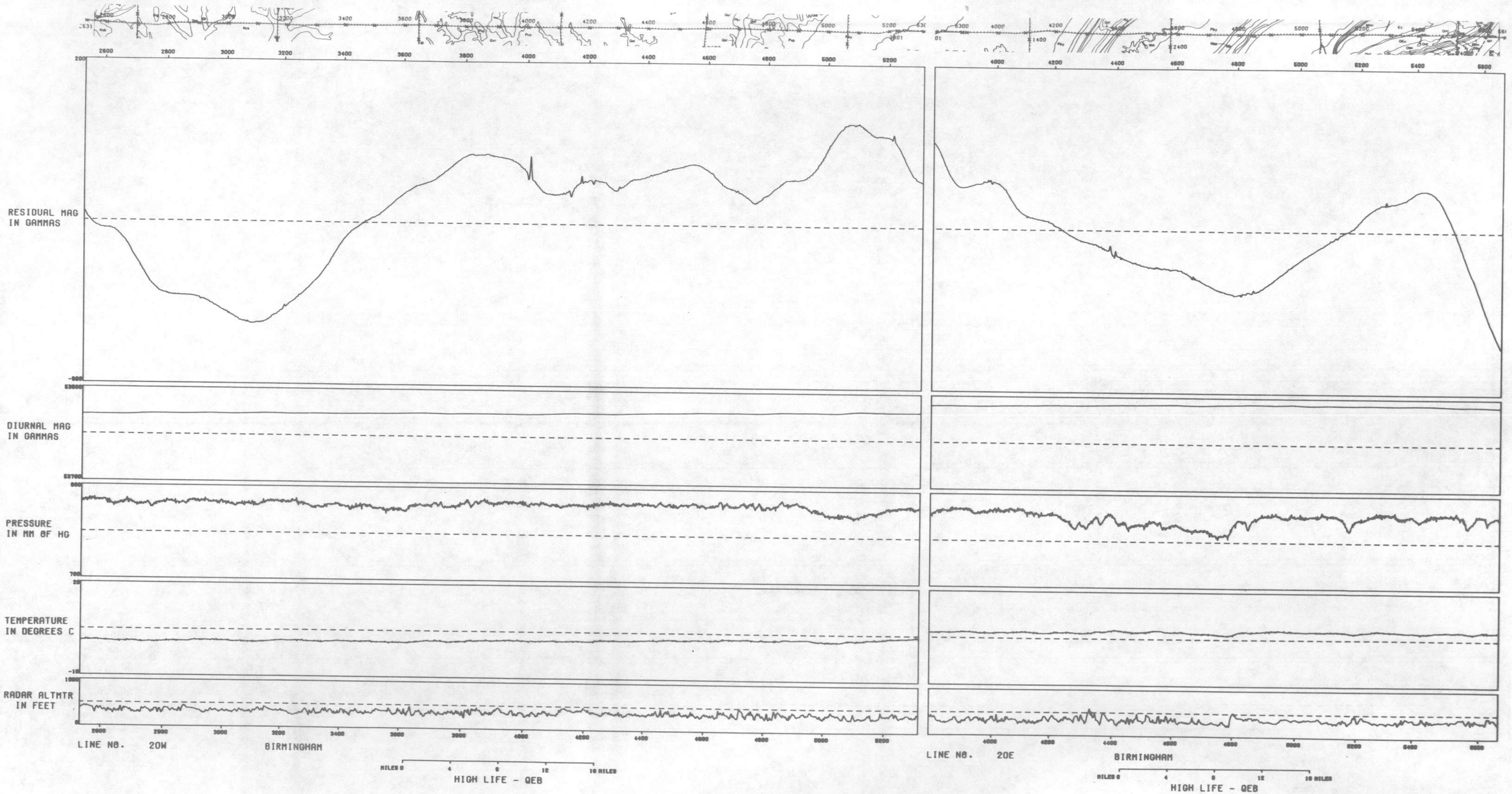
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
LINE NO. 19W BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. 19E BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB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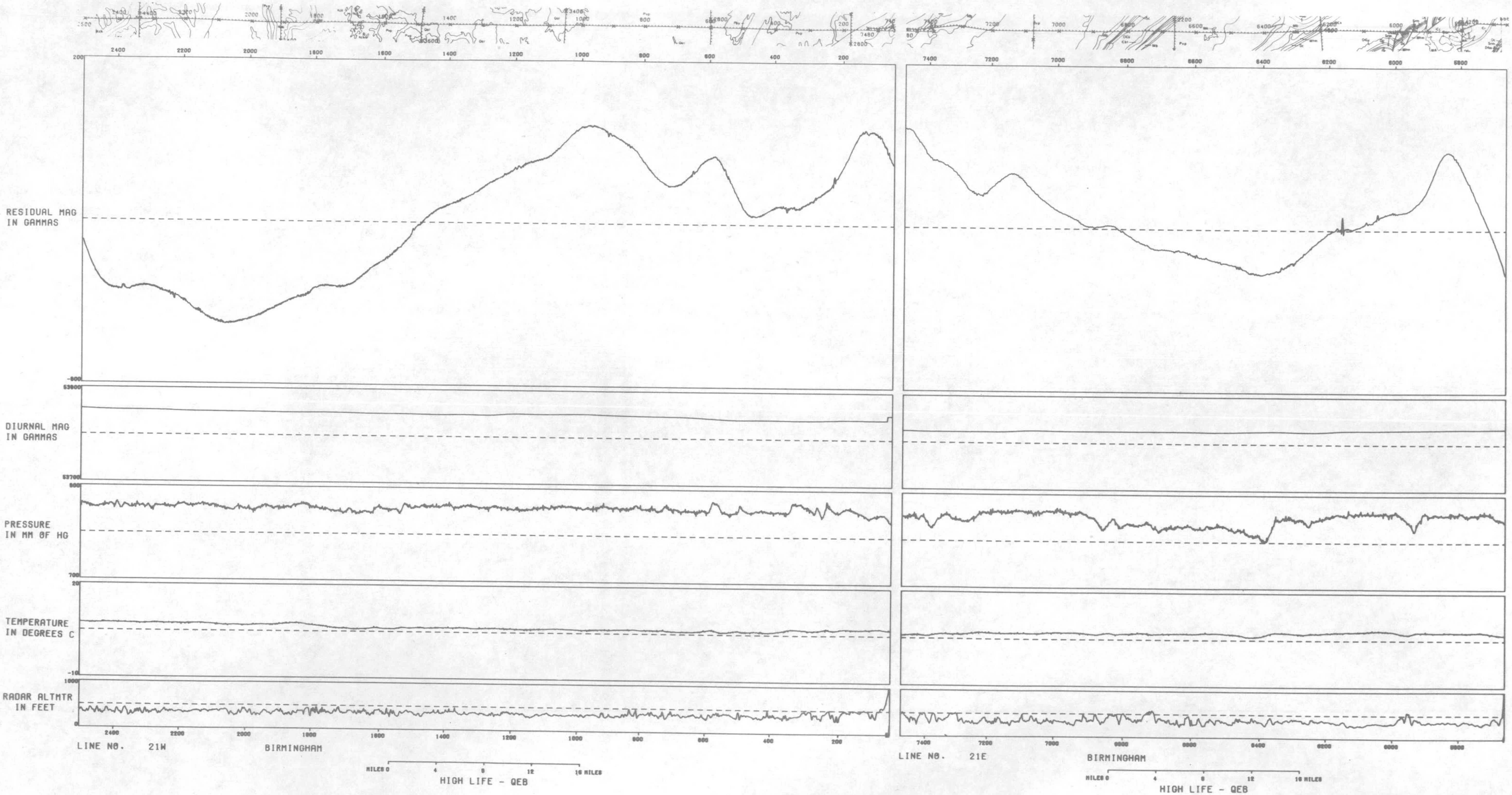
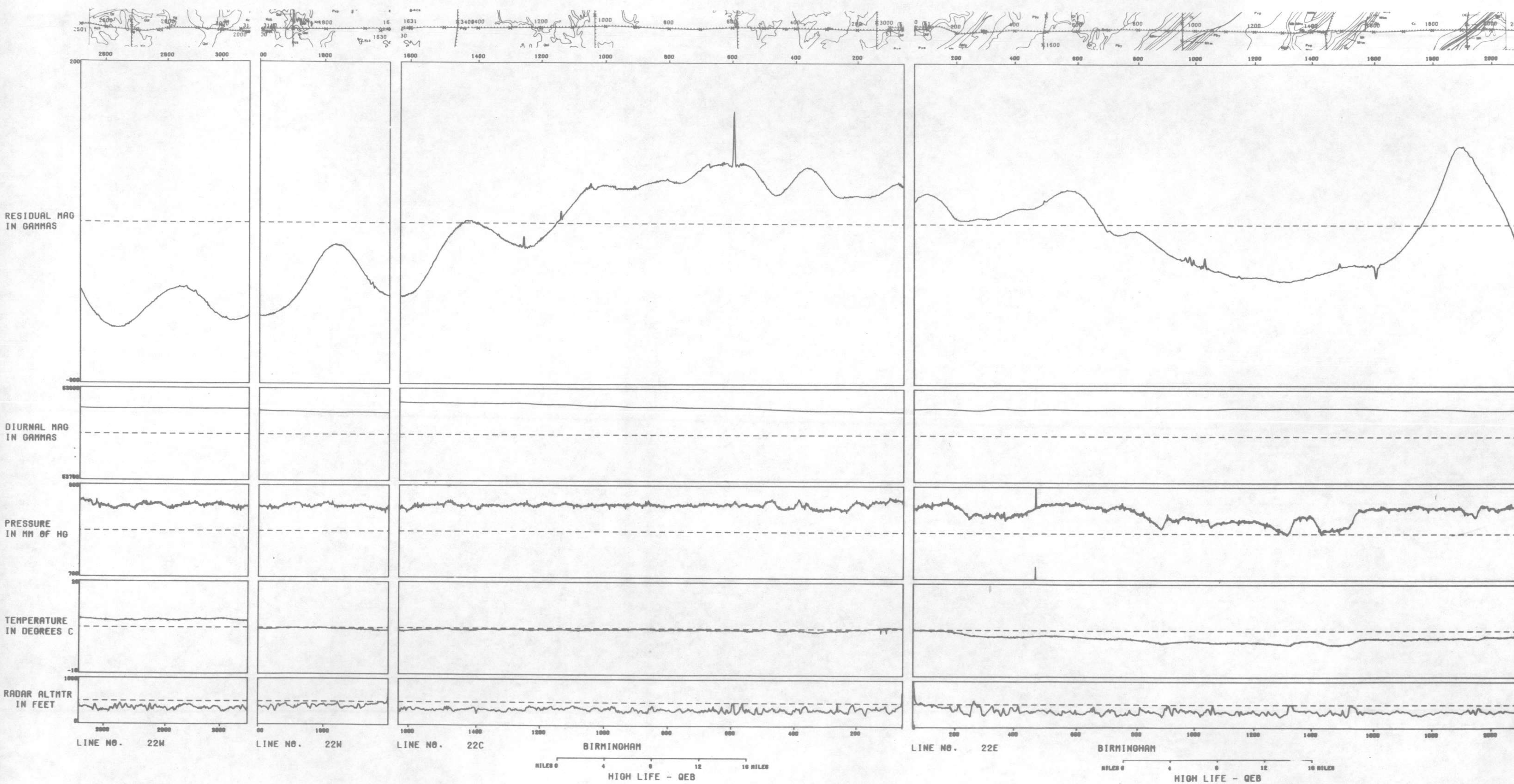
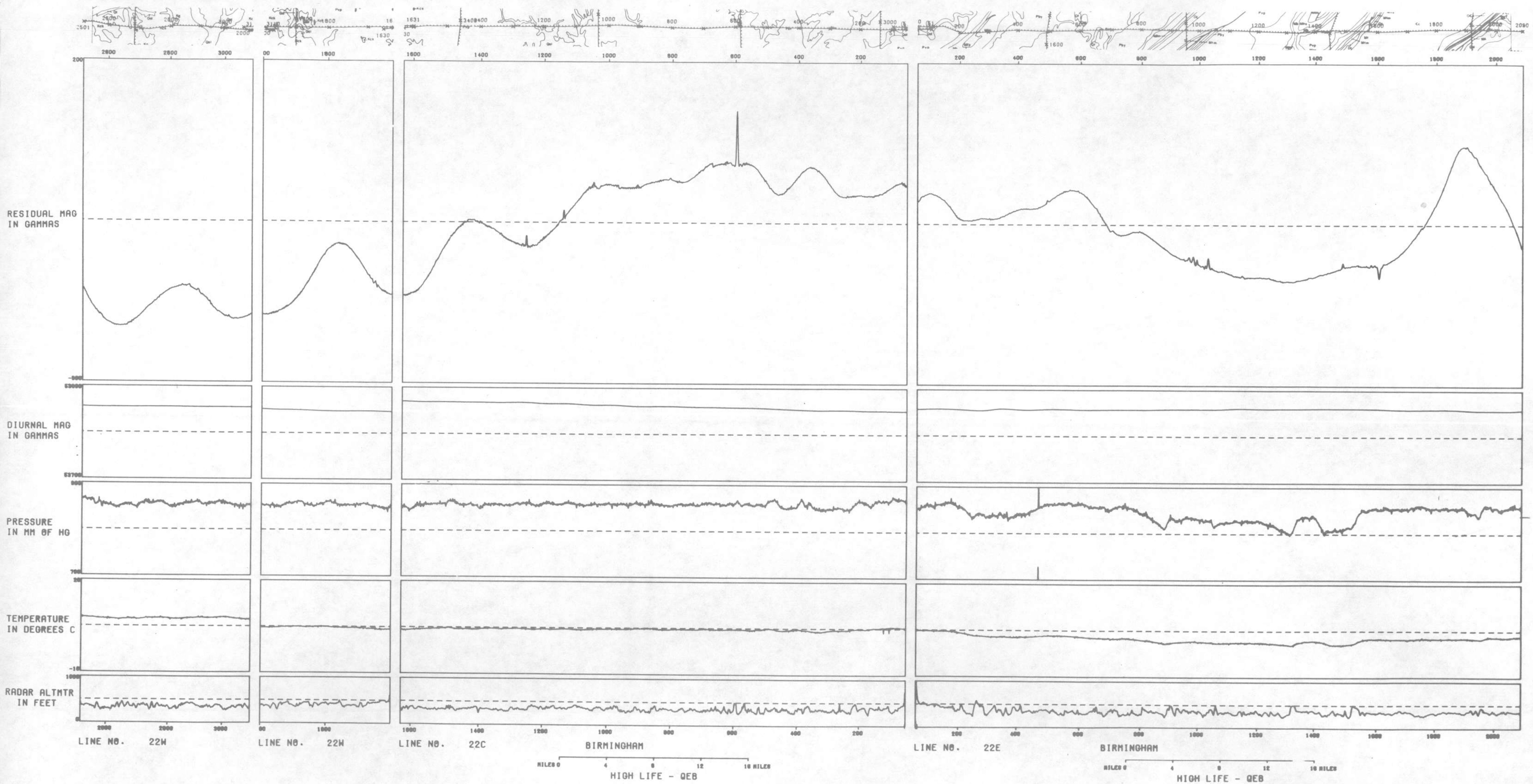
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
LINE NO. 20W
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
LINE NO. 20E
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB

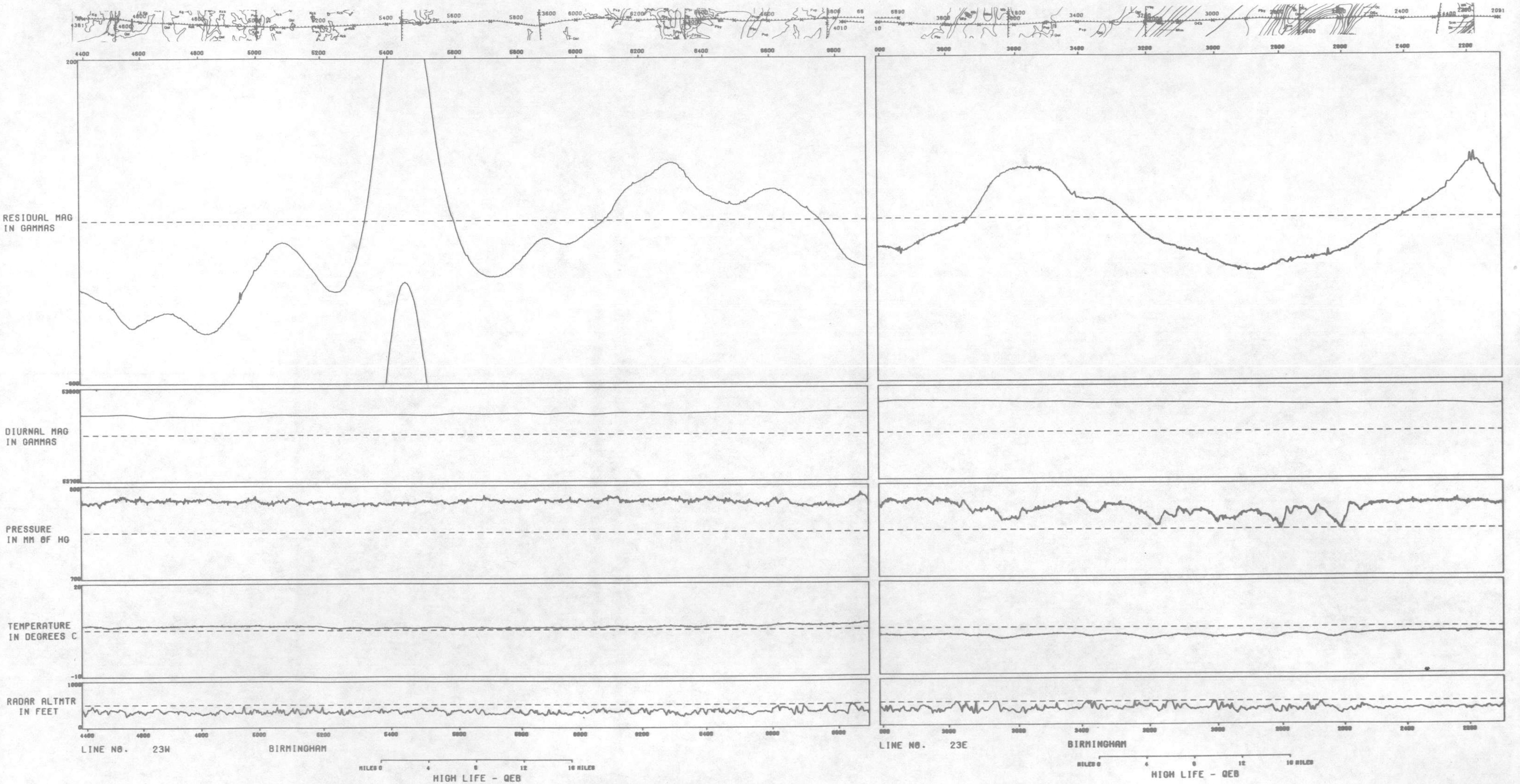

RESIDUAL MAG
IN GAMMAS
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
LINE NO. 21W
BIRMINGHAM
HIGH LIFE - QEB
LINE NO. 21E
BIRMINGHAM
HIGH LIFE - QEB



RESIDUAL MAG
IN GAMMAS
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
LINE NO. 22W
LINE NO. 22W
LINE NO. 22C
BIRMINGHAM
HIGH LIFE - QEB
LINE NO. 22E
BIRMINGHAM
HIGH LIFE - QEB



RESIDUAL MAG IN GAMMAS
DIURNAL MAG IN GAMMAS
PRESSURE IN MM OF HG
TEMPERATURE IN DEGREES C
RADAR ALTMTR IN FEET
LINE NO. 22W
LINE NO. 22W
LINE NO. 22C
BIRMINGHAM
HIGH LIFE - QEB
LINE NO. 22E
BIRMINGHAM
HIGH LIFE - QEB



RESIDUAL MAG
IN GAMMAS
DIURNAL MAG
IN GAMMAS
PRESSURE
IN MM OF HG
TEMPERATURE
IN DEGREES C
RADAR ALTMTR
IN FEET
LINE NO. 23W
BIRMINGHAM
LINE NO. 23E
BIRMINGHAM
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB
MILES 0 4 8 12 16 MILES
HIGH LIFE - QEB

APPENDIX L - TEST LINE DATA

PRE-FLIGHT AND POST-FLIGHT TEST LINE DATA

BIRMINGHAM QUADRANGLE

DATE - 1979	1/4	1/5	1/9	1/10	1/11	1/15	1/16	1/17	1/22	1/23	1/25	1/26
Pre-Tl	49.73	51.68	49.58	51.36	55.25	52.74	54.09	57.17	49.33	53.48	50.54	55.27
Post-Tl	54.56	53.74	54.62	53.70	55.46	57.64	50.66	57.04		50.78	54.63	54.85
Pre-Bi	20.05	22.14	19.49	23.53	25.50	21.34	21.54	23.65	22.53	23.94	17.43	20.02
Post-Bi	21.64	20.37	20.97	21.48	28.64	22.95	18.67	24.05		21.48	18.68	19.35
Pre-K	33.85	34.14	33.28	34.34	33.60	34.26	38.24	36.85	31.42	33.78	31.38	36.69
Post-K	32.26	36.90	36.34	36.16	33.57	37.49	41.34	38.87		36.01	34.17	36.26
Pre-TC	1130.31	1102.97	1085.53	1186.48	1322.02	1180.80	1198.83	1244.55	1177.59	1228.45	1081.80	1190.09
Post-TC	1209.51	1248.81	1290.85	1284.53	1426.18	1300.11	1321.22	1660.64		1340.16	1169.73	1210.14

Note: Substantially higher BiAir contributions were reflected in TC for late afternoon test on 1/17/79
Note: No post-flight line flown because of equipment malfunction at end of production flight on 1/22/79

PRE-FLIGHT AND POST-FLIGHT TEST LINE DATA (Ctd.)

BIRMINGHAM QUADRANGLE

DATE-1979	2/1	2/2	2/5	2/10
Pre-T1	53.13	54.35	53.49	56.54
Post-T1			54.36	53.65
Pre-Bi	21.62	18.29	19.28	18.87
Post-Bi			19.55	20.73
Pre-K	34.83	37.99	37.21	37.02
Post-K			34.28	33.55
Pre-TC	1141.68	1182.76	1204.38	1209.55
Post-TC			1307.37	1019.40

Note: No post-flight line flown because of equipment malfunction at end of production flight on 2/1/79

Note: No post-flight line flown because of darkness on 2/2/79

PRE-FLIGHT AND POST-FLIGHT TEST LINE DATA (Ctd.)

BIRMINGHAM QUADRANGLE

DATE-1979	2/1	2/2	2/5	2/10
Pre-T1	53.13	54.35	53.49	56.54
Post-T1			54.36	53.65
Pre-Bi	21.62	18.29	19.28	18.87
Post-Bi			19.55	20.73
Pre-K	34.83	37.99	37.21	37.02
Post-K			34.28	33.55
Pre-TC	1141.68	1182.76	1204.38	1209.55
Post-TC			1307.37	1019.40

Note: No post-flight line flown because of equipment malfunction at end of production flight on 2/1/79
Note: No post-flight line flown because of darkness on 2/2/79