A Weather Pattern Climatology of the United States

**W. R. Barchet
W. E. Davis**

January 1984

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Richland, Washington 99352

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SUMMARY

This work is an extension of a previous wind energy study of the climatology of weather patterns for the midwest by Barchet (1982). In this study the geographic domain covered the 48 conterminous states of the United States. The daily synoptic weather pattern was classified into nine types for the 10-year period January 1, 1969 to December 31, 1978. Weather pattern types were defined relative to the classical polar front model of a mid-latitude cyclonic storm system and its associated air masses. Guidelines for classifying weather patterns on an operational basis were developed. These were applied to 3652 daily surface weather maps to produce a time series of weather pattern type at 120 grid points of a 160 point, 3° latitude by 4° longitude array over the United States.

Statistics on the frequency of occurrence, persistence and alternation of weather patterns were calculated for each grid point. Summary statistics for the entire grid and for six regions were also presented. Frequency of occurrence and persistence were found to depend on the size and speed of movement of the weather pattern. Large, slow moving air masses had higher frequency of occurrence and longer persistence than small (fronts) or rapidly moving (or changing) features (fronts, storm centers). Some types showed distinct regional preferences. The subtropical maritime high occurred mainly in the south central and southeast.

An indeterminate weather pattern type accounted for those weather patterns that did not fit the polar front model or were too disorganized to be classified. The intermountain thermal low of the desert southwest was one such feature that dominated both frequency of occurrence and persistence in this region.

Alternation from one weather pattern to another followed the polar front model of a moving cyclonic storm. The tendency for anticyclonic weather patterns to become disorganized as they weakened was seen in the high percentage of these patterns that changed to an indeterminate pattern as they aged.

Regional differences in alternation were associated with regional differences in frequency of occurrence.

The weather pattern climatology presented here can serve as a benchmark for similar climatologies derived from short periods in other years. By applying the classification guidelines developed here to these other periods, the climatological representativeness of these periods can be evaluated.

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INTRODUCTION

In an earlier report, Barchet (1982) described the use of weather pattern typing for characterizing the wind regime of the Great Plains. Weather patterns were based on the main features of fronts, and air masses associated with a Polar Front Model of a synoptic-scale cyclonic storm system. In a subsequent report, Barchet and Davis (1983) stratified the wind regime observed during a brief period of observation according to the weather pattern type and then used the long-term frequencies of weather pattern type occurrence to estimate the long-term mean wind speed. This report presents an extension of the Great Plains study of the frequency of weather pattern occurrence to the 48 conterminous states of the United States. The calculation and tabulation of two other related statistics were also completed. These were the persistence of a weather pattern type and the alternation of a weather pattern to a different type. These statistics can be used in estimating the frequency of frontal passages in any given region of the country. Such information could be valuable in an analysis of the performance of an array of wind turbines.

The work was done in two phases. Time series of weather pattern types were produced by a team of analysts at San Jose State University. Statistical analysis and graphical presentation of the time series data were done at the Pacific Northwest Laboratory (PNL).

APPROACH

Classification of the weather patterns over the 48 conterminous United States followed guidelines established by Barchet (1982). Nine weather pattern types, based largely on isobar patterns, were defined. In the 1982 report, weather pattern time series were produced for a set of stations on the Great Plains covering the 10-year period January 1, 1955 to December 31, 1964. In contrast, for this report, weather pattern time series were produced at the regular array of 120 points shown in Figure 1. The 3° latitude by 4° longitude grid covers the continental United States. The grid point in the upper left hand corner of Figure 1 is at 51°N , 126°W . The 10-year period covered the time from January 1, 1969 to December 31, 1978.

FIGURE 1. 120 Array at 3° Latitude by 4° Longitude Spacing at Which Weather Pattern Type Time Series Were Produced for the Continental U.S.A. No weather pattern type time series were produced at the circled points.

CLASSIFICATION BY WEATHER PATTERN TYPE

The nine weather pattern types used in the 1982 study of the Great Plains are shown on a schematic of a large synoptic weather system in Figure 2. A very brief description of the features of each type is given in Table 1.

FIGURE 2. Schematic of Weather Pattern Types Associated With Surface Synoptic Weather Features

While these descriptions help portray the kind of weather associated with a particular weather pattern type, they do not provide sufficient detail or guidance to match unambiguously a particular weather pattern type to a given meteorological situation. Additional guidelines are included in Appendix A. These were developed to aid the operational classification of many weather situations.

DATA BASE

Weather pattern classification was done on 10 years (January 1, 1969 to December 31, 1978) of the 1200 GMT North American Surface Analysis prepared by the National Meteorological Center (NMC) of the National Weather Service. These maps are published weekly under the title Daily Weather Maps by the National Oceanic and Atmospheric Administration and are available from the Government Printing Office. The Daily Weather Map series was found superior to other formats for the NMC analyses, such as microfilm, because the 500 mb

TABLE 1. Weather Pattern Types

Type	Meteorological Situation	Type	Meteorological Situation
1	Warm sector: - cyclonic curvature of isobars - component of wind from south - high humidity - considerable clouds, fog possible - some areas of precipitation - pressure falling	6	Maritime high: - low humidity - few clouds - essentially no precipitation - pressure steady or rising slowly
2	Ahead of warm front: - cyclonic curvature of isobars - component of winds from east - high humidity - considerable clouds - continuous precipitation - pressure falling slowly	7	Stationary front: - indeterminate curvature of isobars - light winds - intermediate humidity - variable cloudiness - few areas of precipitation - pressure steady
3	Behind cold front: - cyclonic curvature of isobars - component of wind from west - intermediate humidity - intermediate clouds - shower-type precipitation - pressure rising	8	Occluded front and regions west of occluded low: - cyclonic or indeterminate curvature of isobars - component of winds from north - high humidity - considerable clouds - considerable precipitation - pressure rising slowly
4	East of continental high: - anticyclonic curvature of isobars - component of wind - low humidity - few clouds - essentially no precipitation - pressure steady or rising slowly	9	Not determinable
5	West of continental high: - anticyclonic curvature of isobars - component of wind from south	10	No map, data missing

analysis is presented on the same page and precipitation areas, that are important in the classification scheme, are clearly shown.

CLASSIFICATION PROCEDURE

The procedure by which time series of weather pattern type were produced for each of the 120 grid points shown in Figure 1 involved three steps. These are:

1. analyzing the daily surface weather maps for areas of homogeneous weather pattern type,
2. tabulating the weather pattern type analysis for the 120 grid points, and
3. coding of the tabulated data for computer processing and analysis.

Map Analysis

Each xerographic copy of the 3652 daily surface analyses was classified by dividing the map into areas which corresponded to the weather pattern types given in Table 1. The mechanics of this procedure simply required drawing the boundaries of each area of homogeneous type and numbering the center of the area with the pattern type.

Tabulation

Tabulations were accomplished by placing a transparent grid in registry with a classified map and subsequently tabulating the grid point values (types) on a tabulation form. The grid contains 160 (16 x 10) points, although data are only tabulated for 120 points. If a grid point fell on the boundary between two types, it was assigned the lower value.

Coding

A commercial data entry organization keyed the tabulated data, one day (map) at a time directly into computer storage. The final data set was retrieved directly from the computer without further processing. See Appendix B for a description of the format for the data base and data tape.

QUALITY CONTROL AND ASSURANCE

A large team of analysts was involved in classifying the daily weather maps. To insure consistency between analysts, each member of the team underwent a 1-week training period. The first year of weather maps were classified by teams of two analysts with quality control provided by the project supervisors. For the remainder of the data, analyses were done individually and quality control was provided by a specially trained team of two analysts.

Quality control of the map classification focussed on the application of the guidelines presented earlier. Project supervisors spot checked classified maps and provided assistance with unusually difficult analyses.

Quality assurance in the tabulation of classified maps was provided by having a second person perform an independent tabulation which was cross checked against the original. A spot check of the tabulated data for consistency was done by a third analyst prior to coding the data.

Quality control on the keyed-in data was provided by comparing a listing of the data in computer storage against the tabulated data. A dump of the final data tape was spot checked against the original tapes as a final quality control.

STATISTICAL ANALYSIS

The principal statistic determined was the frequency of occurrence of each weather pattern type at each grid point. Four seasonal frequencies as well as an annual average frequency were calculated. Yearly frequencies were also calculated and used to produce the standard deviation of the yearly frequency of occurrence.

Two other related statistics were determined: the persistence of a weather pattern type at each grid point and the alternation of the weather pattern to a different type. Persistence was calculated from the number of consecutive days the weather pattern type did not change. Persistence is expressed as the probability that a run of a given weather pattern type will exceed its current duration. Alternation is expressed as the probability a run of one weather pattern type will be terminated by another type.

RESULTS

GENERAL OVERVIEW

The distribution of weather pattern types over the grid shown in Figure 1 for the period January 1, 1969 to December 31, 1978 is summarized in Table 2. The northwest region shows the highest count because it encloses the largest number of grid points at which weather pattern time series were produced. Table 2 highlights regional differences in the occurrence of various weather pattern types.

The western third of the grid (northwest and southwest) is dominated (46.5%) by Type 9 weather patterns which do not fit those associated with the classical polar front model of a synoptic-scale cyclonic storm system. No area of the country was totally free of indeterminate weather patterns.

Traveling fronts, storm systems and air masses produce a more nearly uniform distribution of weather patterns over the northeast. Slow moving, large high pressure systems dominate. The percentage coverage of frontal and storm weather pattern types is rather uniform.

The south central and southeastern portions of the region are dominated by anticyclonic weather patterns (Types 4, 5 and 6). The Florida peninsula, that is nearly half of the southeast, is usually under the maritime high pressure (Type 6) weather pattern. Continental highs frequently approach the southeast (Type 4) but seldom seem to move out to sea over the southeast coast. As a result Type 5 occurs less than 1/3 as often as Type 4 in this region.

A few instances of missing map arose in the 10-year period. In most of these cases the Daily Weather Map cut off the very southern part of the grid so that no classification could be made.

FREQUENCY OF OCCURRENCE

The frequency of weather pattern occurrence was determined by summing the number of occurrences of a weather pattern type at a grid point and dividing by the total number of samples. Annual and seasonal time periods were analyzed.

TABLE 2. Percentage Coverage by Weather Pattern Type Averaged
Over the 10-Year Period 1/1/69 to 12/31/78

Region	Count	Weather Pattern Type									
		1	2	3	4	5	6	7	8	9	10
Northwest	109560	1.9	6.2	2.5	21.9	19.3	0.0	10.6	4.6	32.9	0.0
North Central	69388	4.1	8.7	3.5	26.0	26.7	2.5	11.5	7.5	9.6	0.0
Northeast	83996	4.5	10.8	3.5	26.9	16.5	7.8	7.5	13.2	9.4	0.0
Southwest	54780	0.8	0.6	1.3	7.3	11.1	0.2	4.2	0.8	73.6	0.0
South Central	62084	2.0	1.3	1.6	14.0	16.9	35.9	10.7	0.6	17.1	0.0
Southeast	58432	2.4	1.6	2.1	17.2	5.3	49.5	10.2	1.0	10.7	0.0
Total Grid	438240	2.7	5.5	2.5	19.9	16.7	13.6	9.3	5.2	24.6	0.0
WPT Count		11802	23958	11031	87348	73147	59560	40842	22786	107755	11

Seasonal periods are defined as:

Winter - December, January, February

Spring - March, April, May

Summer - June, July, August

Autumn - September, October November.

Appendix C gives the percentage frequency of occurrence of the nine weather patterns at each grid point. Values are given for the annual and four seasonal averages as well as for the variability of the yearly frequency of occurrence. Variability is defined as the standard deviation of the 10 yearly mean frequency of occurrence divided by the annual or 10-year mean value. Appendix C gives the frequency of weather pattern type at each grid point for each year the period 1969 through 1978.

These results are graphically summarized in Figures 3 to 11, one for each weather pattern type. Contour intervals on these figures begin at 0.5%, step to 1.0 and 2.0%, and then are incremented by 2 percentage points to the maximum value contoured. The variability is expressed as a percentage of the annual mean frequency.

PERSISTENCE

Persistence refers to the number of consecutive days the same weather pattern type is found at a grid point. It is expressed as the percentage probability that the length of a run will exceed the current duration. Appendix D gives the persistence by weather pattern type summarized by region. Probabilities of run durations from 1 to 7 days are shown for each grid point. The total number of runs is also given.

Summary statistics on run duration are presented in Table 3 for the entire grid. The probability of run duration exceeding a given duration decreases rapidly as run duration goes beyond 3 days. As is apparent from this table, weather patterns associated with large, slow moving features such as the continental highs (Types 4 and 5) and the nearly stationary maritime high (Type 6) tend to have longer runs than frontal features (Types 2 and 3) or cyclonic storm features (Types 1 and 8). The stationary front (Type 7)

FIGURE 3. Annual and Seasonal Percentage Frequency of Occurrence and Variability of Weather Pattern Type 1: Warm Sector

FIGURE 4. Annual and Seasonal Percentage Frequency of Occurrence and Variability of Weather Pattern Type 2: Ahead of Warm Front

FIGURE 5. Annual and Seasonal Percentage Frequency of Occurrence and Variability of Weather Pattern Type 3: Behind Cold Front

FIGURE 6. Annual and Seasonal Percentage Frequency of Occurrence and Variability of Weather Pattern Type 4: East of Continental High

ANNUAL

VARIABILITY

WINTER

SPRING

SUMMER

AUTUMN

FIGURE 7. Annual and Seasonal Percentage Frequency of Occurrence and Variability of Weather Pattern Type 5: West of Continental High

FIGURE 8. Annual and Seasonal Percentage Frequency of Occurrence and Variability of Weather Pattern Type 6: Maritime High

FIGURE 9. Annual and Seasonal Percentage Frequency of Occurrence and Variability of Weather Pattern Type 7: Stationary Front

FIGURE 10. Annual and Seasonal Percentage Frequency of Occurrence and Variability of Weather Pattern Type 8: Occluded Front and Regions West of Occluded Low

FIGURE 11. Annual and Seasonal Percentage Frequency of Occurrence and Variability of Weather Pattern Type 9: Not Determinable

TABLE 3. Percentage Probability That a Weather Pattern Run Will Exceed
Current Duration Averaged Over the Entire Grid

Days	Current Run Weather Pattern Type								
	1	2	3	4	5	6	7	8	9
1	6.2	12.1	3.1	35.2	33.3	51.0	22.1	23.8	37.0
2	0.5	1.8	0.1	12.4	11.9	31.8	5.7	6.1	19.1
3	0.1	0.4	0.0	4.9	4.8	21.3	1.6	2.3	11.9
4	0.0	0.1	0.0	2.0	2.0	15.4	0.6	1.0	8.4
5	0.0	0.0	0.0	0.9	0.9	11.7	0.2	0.5	6.4
6	0.0	0.0	0.0	0.4	0.5	9.1	0.1	0.2	5.0
7	0.0	0.0	0.0	0.2	0.3	7.4	0.1	0.1	4.2
Total Runs =	11048	20916	10695	55834	47503	20048	31273	16979	44430

longer duration runs than the other frontal features. Type 9, the indeterminate classification, frequently has long runs, especially in the southwest.

Regional differences in persistence are summarized in tables in Appendix D. In general, persistence is correlated with the frequency of occurrence. In regions where the occurrence of a weather pattern is rare, its persistence is also low. The converse also applies. For example, Type 6, maritime high, shows large regional differences in persistence that match its regional frequency of occurrence. The dominance of Type 9, indeterminate, in the southwest is a result of the warm-season thermal low over the intermountain basin. In the southeast, that is Florida and the western Atlantic, Type 6, the maritime high (Bermuda high), dominates the persistence as well as frequency of occurrence. The stationary character of the thermal low and the maritime high contribute to their long persistence.

ALTERNATION

Runs of a weather pattern type are terminated when the weather pattern changes. Statistics on the alternation of weather patterns have been calculated for all points on the grid and are summarized by region in Appendix E. The values given in Table 4 express the probability that the current run of a weather pattern will end by changing to the new weather pattern.

The probabilities of transition from one weather pattern to another coincide with what is expected from the movement of the synoptic system as diagrammed in Figure 2. Passage of a cold front replaces the warm sector (Type 1) with the east side of the continental high (Type 4). In turn, as that high moves, Type 4 is replaced with Type 5. The western side of the high leads to an area of indistinct pressure gradients and thus to many Type 9 classifications. The maritime or subtropical high over the southern coastal areas is often bordered by a stationary front (Type 7). When this front begins to move, it usually moves eastward allowing the continental high (Type 4) to move in. The continental high, with large probability, replaces the occluded low type as the storm systems move along the storm track. Indeterminate weather patterns of Type 9 rather uniformly either follow or evolve into Types 4, 5, 6 and 7. These four weather patterns are the most

TABLE 4. Probability That Current Run Terminates by Changing to New Weather Pattern Type

New WPT	Weather Pattern Type of Current Run								
	1	2	3	4	5	6	7	8	9
1	0.0	3.3	1.5	2.8	6.8	8.4	5.4	1.0	4.1
2	4.5	0.0	5.2	8.9	14.1	4.1	7.4	9.6	7.7
3	11.5	6.5	0.0	1.9	4.6	5.5	3.8	1.3	5.2
4	38.9	29.5	45.3	0.0	16.3	17.7	28.5	46.6	27.9
5	8.0	8.4	14.4	44.7	0.0	6.4	18.2	14.9	20.0
6	3.8	1.1	2.5	9.2	10.6	0.0	12.8	1.6	10.6
7	11.8	7.5	6.1	9.1	16.0	29.8	0.0	5.2	18.5
8	10.0	30.8	7.2	3.4	5.7	2.1	3.1	0.0	5.9
9	11.6	12.8	17.9	20.0	26.0	25.9	20.7	19.7	0.0
Total Runs =	11052	20916	10695	55835	47505	20052	31274	16979	44432

likely to be associated with weak, unorganized pressure fields that do not fit the Polar Front Model; especially as these air masses leave their source regions, weaken and undergo transition.

Regional differences in the alternation frequency follow the pattern given in Table 5. However, where the regional frequency of occurrence differs substantially from the total grid average, some shifts in the alternation pattern occur. For example, in the Northwest, Type 6 is virtually absent but Type 9 is common, hence alternation to Type 9 is more frequent for all other types while alternation to Type 6 never has a chance to occur.

TABLE 5. Number of Responses Specifying a Weather Pattern Type was Difficult to Classify

<u>Area</u>	<u>Type</u>									<u>Total</u>
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	
Pacific Northwest	1	2		2	1			3	3	12
West Coast	1	1	2	4	2		2	2	3	17
Southwest	1								4	5
Rockies	1	1	1				3	1		7
Northeast Coast				4	3	1		3	1	12
Southeast Coast				4	4	3	1			12
Gulf States				1	2	3	1			7
Caribbean							1			1
Atlantic				1		1				2
Plains	1	1	1			2		1		6
Total	5	5	4	16	12	10	8	10	11	

CLASSIFICATION PROBLEMS

The scheme for classifying weather pattern types is based on an idealized model of distinct weather patterns associated with very well defined large-scale weather systems. In reality, however, weather systems are seldom so distinctly structured; nor are sharp discontinuities in the features that characterize various weather pattern types always present. Three problems generally confronted the analysts:

1. The differentiation between certain weather pattern types was unclear.
2. Certain geographical areas presented persistent classification problems.
3. The so-called Indeterminate (Type 9) classification contained several well-defined subtypes.

An estimate of the scope of the first and second problems was obtained by polling the team of 10 analysts doing the classifications. Each was asked to subjectively rate whether it was easy or difficult to determine the weather pattern type in various parts of the country. Table 5 gives the results. Totals along the right hand side of the table show that the coastal areas and the Pacific Northwest were the most problematic areas. The totals along the bottom of the table show that the most problematic types were 4, 5, 6, 8 and 9. The distribution within the body of the table suggests that the continental and maritime highs (4, 5, 6) caused problems along the coasts, while occlusions were difficult to handle in the mountains. The transition of Pacific high pressure regions to Type 4 over land and the transition of continental highs to Types 6 or 9 over the Atlantic or Gulf were sometimes poorly defined (e.g., because of weak gradients). Over the mountains of the western U.S., the inland progression of weakening occlusions and subsequent developments along quasi-stationary fronts on the east slope of the Rockies frequently presented difficulties because of the inapplicability of the Polar Front Model.

The third problem arose largely from the inapplicability of the Polar Front Model to weather patterns frequently found in various parts of the country. Table 6 describes commonly found synoptic features and their preferred geographical locations and seasons of occurrence that were

TABLE 6. Synoptic Features Classified as Type 9: Indeterminate

<u>Synoptic Feature</u>	<u>Preferred Location</u>	<u>Preferred Season(s)</u>
Thermal lows and troughs	Mexico, CA, AZ, NV	Summer Spring Autumn
Dry lee troughs	NM, CO, WY, MT	?
Ill-defined surface lows (no fronts) associated with intense upper-air disturbances	Southwestern U.S.	Winter Spring
Ill-defined surface lows associated with very old weak occlusions (no fronts) well to the rear of vigorous new occlusions	NW and NE U.S.	Winter Spring
Tropical waves, tropical depressions, tropical storms and hurricanes	SE U.S., Gulf Coast	Summer Autumn
Modified polar continental air masses	Western Atlantic	Winter Spring
Maritime polar air masses	Eastern Pacific	Winter Spring
Maritime Pacific High	Eastern Pacific	Summer Autumn

classified as Type 9: Indeterminate. Thermal lows and troughs over the southwestern United States and northern Mexico were, by far, the most commonly found feature that was classified as Type 9. These are primarily warm-season features. The least occurring features were the tropical waves, disturbances, storms and hurricanes that infrequently visit the southeastern Atlantic coast, Florida and the Gulf Coast in the warmer months. In the fall, weather systems and storm tracks undergo the transition from summer to winter. Dry troughs to the lee of the Rockies and maritime polar air masses along the west coast often were classed as indeterminate. Ill-defined surface lows were a common winter classification problem over the southwest. Modified continental polar air masses moving off the east coast were noted as a spring time problem. Anticyclonic features, associated with maritime polar or modified continental

polar air masses, that could not be classified except as Type 9, were far fewer than the number of cyclonic features, which did not fit the Polar Front Model.

RECOMMENDATIONS

Classification of surface weather patterns has revealed some interesting regional features. However, in spite of the care taken to define each weather pattern type in an objective and operational manner, many weather situations did not fall into the classification scheme based on the Polar Front Model. Definition of additional weather pattern types would have reduced the number of indeterminate classifications. Yet a subjective manual analysis, which is a tedious task, would still encounter situations that defied classification. Future activity in weather pattern typing, if undertaken, should examine the use of numerical objective analysis techniques based on the distribution of surface pressure and weather features (personal communication with Lester and Burton in 1982).

The statistical analyses presented here have examined the climatology of weather pattern occurrence. Many other phenomena may show correlations with the weather pattern types used here. For instance, Barchet and Davis (1983) used a weather pattern climatology to estimate the long-term mean wind speed from a short period of record. Although this work did not indicate an improvement over other available techniques by using the weather pattern climatology, the extension of the weather pattern climatology from the the Great Plains (Barchet 1982) to that of the United States was considered a valuable study for many other applications.

Often it is necessary to infer the long-term (climatological) value of a weather-dependent quantity from a relatively short period of observation. There is then always the risk that the period of observation does not adequately represent the climatology of the measurement location. The weather pattern climatology presented here offers a means by which the period of observation can be compared against the long-term climatology of weather patterns at the point of interest. It may be possible, if necessary, to adjust the observed parameter for any bias in weather pattern occurrence (as was done by Barchet and Davis (1982) for wind speed).

However, classification of weather patterns is a subjective skill that requires special training as well as experience in general synoptic

meteorology. Comparison with the climatology presented here will require that the procedures given in Appendix A be carefully followed.

REFERENCES

- Barchet, W. R. 1982. A Weather Pattern Climatology of the Great Plains and the Related Wind Regime. PNL-4330, Pacific Northwest Laboratory, Richland, Washington.
- Barchet, W. R. and W. E. Davis. 1983. Estimating Long-Term Mean Wind From Short-Term Wind Data. PNL-4785, Pacific Northwest Laboratory, Richland, Washington.

APPENDIX A

APPENDIX A

GUIDELINES FOR THE OPERATIONAL CLASSIFICATION OF WEATHER PATTERNS

In preparation for the operational classification of weather pattern types, the criteria for designating each type were expanded and refined with the objective to provide guidelines to classification which would standardize the procedure and produced the fewest indeterminate classifications. These guidelines were based on the following assumptions:

- i. The Polar Front Model (with modifications for the peculiarities of the North American Continent) describes the general synoptic structure of all mid- and high-latitude disturbances.
- ii. Weather map features of Synoptic Scale dimensions are of major importance. "Synoptic Scale" features are defined here as those with areas greater than one grid square (3° latitude by 4° longitude).
- iii. Surface windflow patterns of synoptic dimensions are related to the topography of the sea-level pressure field (i.e., the configuration of isobars) via the geostrophic (gradient) wind relationship.
- iv. On the Synoptic Scale there is a strong relation between the isobaric pattern and the presence of moisture, clouds and precipitation.

TYPE 1: WARM SECTOR (OPEN WAVE OR OCCLUSION)

- a. The largest portion of the warm air mass that is encompassed by the cold front, the warm front, and

The line from the "bow" of the warm front to the "bow" of the cold front (line "a") in Figure A.1, or

The line from the point at which the warm front becomes a stationary front to the point at which the cold front becomes a stationary front (line "b" in Figure A.1), not to extend beyond the COL on either front, (if the front is truncated, it may be extended to the COL for classification purposes) or

FIGURE A-1. Type 1 (Warm Sector): For Open Wave and Occluded Cyclones. Regions selected are shown as hatched areas. Rules are illustrated for individual cases (top) and in combination (bottom). Short arrows between isobars represent directions of geostrophic (gradient) wind.

The last closed isobar in the warm sector (line "c" in Figure A.1) that has curvature which is straight, cyclonic or slightly anticyclonic, or A combination of the above to maximize the area.

- b. In the case of double fronts from the same low, only the southernmost fronts will be used for classification purposes.

- c. In ambiguous situations, the warm sector may be better defined by geostrophic winds with a south- and/or west-component, indications of high humidity (e.g., $\equiv$, $\oplus$, $\otimes$, , , $\bullet$) and/or falling pressure.

TYPE 2: AHEAD OF THE WARM FRONT (OPEN WAVE OR OCCLUSION)

- a. The Type 2 area is encompassed by the warm front, and lines "a" and "b" in Figure A.2. Line "a" begins at the end of the warm front and extends counterclockwise around the low to line "b" which extends from the apex of the warm sector, through the points on the cyclonically curved isobars which separate easterly and westerly geostrophic flow (usually behind the cyclone).
- b. For an occlusion (Figure A.2), line "b" separates southerly from northerly geostrophic flow.
- c. For waves with little amplitude, both with one or more closed isobars, line "b" will be arbitrarily drawn at a 45° angle with the cold front (see Figure A.3).
- d. In both the wave and occluded cases, the Type 2 area will encompass primarily cyclonically curved isobars, extending north of the low to the last closed isobar on the edge of the precipitation which ever maximizes the area. If the northern extent of the area is ambiguous according to these guidelines, the COL is the northern limit.
- e. In the case of double fronts, use rule (b) under Type 1.
- f. In ill-defined, prewarm-frontal areas, high-humidity indicators ($\oplus$, , , $\bullet$) and pressure falls (ahead of the low) should be used as secondary criteria to better delineate the region.
- g. Where the warm front is very poorly defined (e.g., with occlusions over the mountains of western U.S.), line "a" will correspond with the last closed isobar ahead of the occluded front.

FIGURE A.2. Type 2 (Ahead of Warm Front). For open wave (top left), occlusion (top right), and occlusion with poorly defined warm front (bottom). Selected regions are hatched.

TYPE 3: BEHIND THE COLD FRONT (OPEN WAVE OR OCCLUSION)

- a. For both occlusions and open waves, the Type 3 region is the largest area enclosed by the cold front and the line extending from the apex of the warm sector, through the cold air, to the point at which the cold front becomes a stationary front (Figure A.3).

FIGURE A.3. Type 3 (Behind Cold Front). For open wave (upper left), occlusion (upper right), and stable wave (bottom). Selected areas are hatched.

- b. For open waves (Figure A.3), the area will include cyclonically curved isobars behind the low that are not included in Type 2, as well as the cyclonically curved isobars immediately behind the front. This area is usually characterized by northwesterly flow (also see Type 8).
- c. For occluded cyclones (Figure A.3) the Type 3 will usually be limited to the region immediately behind the cold front.
- d. For stable waves (very small amplitude with one or more closed isobars), the boundary of the area will be a line extending into the cold air from the apex of the warm sector. It will make a 45° angle with the cold

front, encompass the cyclonic curvature and terminate at the point the cold front becomes stationary (Figure A.3).

- e. In cases of double fronts, use rule (b), Type 1.
- f. In poorly defined cases, secondary criteria ($\oplus$, ∇ , pressure rises) will better define the area.

TYPES 4 AND 5: CONTINENTAL HIGH

- a. All areas over land, immediately to the east of the major ridgeline of a continental high will be classified as Type 4 if the isobars are anti-cyclonically curved and the geostrophic wind has a northerly component (Figure A.4).
- b. All areas over land, immediately to the west of the major ridgeline of a continental high will be classified as Type 5 if the isobars are anti-cyclonically curved and the geostrophic wind has a southerly component (Figure A.4).
- c. As long as the major ridgeline of the continental high remains over land, regions over water with northerly or northwesterly flow will be classified as Type 4 (east coast). After the major ridgeline moves over the water, all associated overwater areas with anticyclonic curvature will be classified as either Type 6 or Type 9 (see Types 6 and 9).
- d. When a portion of the Pacific High builds over the west coasts, only the region overland will usually be classified as Type 4 (for a northerly component of the geostrophic wind) or Type 5 (for a southerly component).
- e. In ambiguous cases, secondary criteria (e.g., $\equiv$, $\oplus$, ∇ , $\bullet$, pressure rises) will be used to clarify the pattern.

TYPE 6: MARITIME HIGH

- a. A high pressure area centered over water will be considered as a "maritime" high.

FIGURE A-4. Type 4 (East of a Continental High) and Type 5 (West of a Continental High). West coast and east coast transition types are shown at the bottom. Type 4 regions are hatched. See also Type 6.

- b. All over water areas within the maritime high which show anticyclonically curved isobars and an easterly or southerly geostrophic component will be classified as Type 6.
- c. Over land, all areas under the influence of the maritime high (anti-cyclonic curvature and easterly and/or southerly geostrophic wind component) which have indicators or high humidity will be classified as Type 6.

- d. Type 6 may not exist near the west coast.
- e. After the center or the major ridgeline of a continental high moves over water, regions of the high which satisfy (b) and (c) above will be classified as Type 6.

TYPE 7: STATIONARY FRONT

- a. All quasi-stationary (i.e., slow moving warm or cold, or stationary) fronts will be designated as Type 7.
- b. The Type 7 classification encompasses the region around the quasi-stationary front which is characterized by cyclonic shear and/or cyclonic curvature of the isobars and/or precipitation.
- c. Regions of frontogenesis and frontolysis will usually be included in this classification.
- d. Nonfrontal, lee-of-the-mountain troughs which show precipitation and/or extensive cloudiness will be classified as Type 7.

TYPE 8: OCCLUDED FRONT AND REGIONS WEST OF OCCLUDED LOW

- a. The region of cyclonic curvature and precipitation behind the occluded front and low, will be designated as Type 8 (Figure A.5).
- b. Type 8 is encompassed by the line ("a" in Figure A.5) which extends from the apex of the warm sector, behind the occlusion to the intersection of the last closed isobar around the low and a line that separates southeasterly from northeasterly geostrophic flow (line "b" in Figure A.5).
- c. In ambiguous cases, Type 8 may be distinguished by northerly geostrophic flow, overcast skies and precipitation.

TYPE 9: INDETERMINE

Type 9 is the "catch all" classification which generally includes synoptic conditions not covered by Types 1-8.

FIGURE A.5. Type 8 (Occluded Front and Region West of Occluded Low). Selected region is hatched.

Additional Guidelines

An evaluation of the application of the above guidelines to the operational, routine analysis of weather pattern types leads to the formulation of a several additional guidelines that help promote consistency among analysts:

- i. Adhere to the principles of continuity both in the interpretations and in the classifications of synoptic circulation systems.
- ii. Minimize "9" (indeterminate) areas wherever possible.
- iii. Where two classifications are equally possible, select the numerically lower classification.
- iv. Use upper air (500 mb) to check continuity and to determine the vertical structure of systems (especially occlusions).
- v. Accept NWS analyses except in cases with obvious analysis errors or breaks in continuity.

APPENDIX B

APPENDIX B

WEATHER PATTERN TYPE DATA BASE

The time series of weather pattern type for the 120 points shown in Figure 1 are maintained on a 1/2-inch, 9-track, 1600 bpi, ASCII-coded, unlabeled magnetic tape. Forty points in the 16 x 10 grid at which no weather pattern type were coded 0. The grid point data are reported in full in a separate volume.

Each logical record contains date and weather patterns for a latitude band consisting of 16 points (126°W to 66°W at 4° longitude intervals). The format for each logical record of 38 characters is given in Table B.1. Logical records are blocked to contain 1 day's data.

TABLE B.1. Logical Record Format for U.S.A. Weather Pattern Data Tape

<u>Field</u>	<u>Width</u>	<u>Description</u>
1	2	Year, e.g., 1955 = 55
2	2	Month, e.g., May = 05
3	2	Day of month, e.g., 02
4	2	Map time, e.g., 12Z = 12
5	2	Weather pattern at 126°W
.	.	.
.	.	.
.	.	.
19	2	Weather pattern at 66°W

The ten logical records within a block are ordered from north (51°N) to south (24°N) at 3° latitude intervals. The format of each block of 380 characters is given in Table B.2.

A sample of the data tape contents is shown in Table B.3.

TABLE B.2. Block Format for U.S.A. Weather Pattern Data Tape

<u>Logical Record</u>	<u>Length</u>	<u>Description</u>
1	38	Date, time and weather patterns, 51°N
2	38	Date, time and weather patterns, 48°N
.	.	
.	.	
.	.	
.	.	
.	.	
10	38	Date, time and weather patterns, 24°N

TABLE B.3. Sample of the U.S. Weather Pattern Data Tape Content

```

76122312 9 9 9 5 5 4 5 7 7 6 6 6 6 6 0 0
76122312 0 9 9 5 5 9 5 4 6 6 6 6 6 6 0 0
76122312 0 0 9 9 9 9 5 7 7 7 6 6 6 0 0 0
76122312 0 0 0 0 0 0 9 7 7 7 7 6 6 0 0 0
76122312 0 0 0 0 0 0 0 7 0 0 0 6 6 0 0 0
76122412 5 4 4 4 7 3 3 3 8 0 0 0 0 0 0 0
76122412 5 4 4 4 4 4 1 1 2 2 2 5 4 4 8 8
76122412 5 5 4 4 4 4 9 2 2 5 5 5 4 4 8 8
76122412 5 5 4 4 4 4 9 9 5 5 5 5 4 4 8 8
76122412 9 5 5 4 4 9 9 9 5 5 5 5 4 4 8 0
76122412 9 9 5 5 4 4 9 5 5 5 5 4 4 4 0 0
76122412 0 9 9 9 4 9 9 5 5 5 5 4 4 4 0 0
76122412 0 0 9 9 9 9 6 5 5 5 5 4 4 0 0 0
76122412 0 0 0 0 0 0 6 6 6 5 5 4 4 0 0 0
76122412 0 0 0 0 0 0 0 6 0 0 0 7 7 0 0 0
76122512 1 5 4 7 7 7 5 4 4 0 0 0 0 0 0 0
76122512 1 5 4 4 4 7 7 7 4 4 4 3 2 2 5 4
76122512 1 5 5 4 4 4 4 7 7 4 3 1 1 5 5 4
76122512 9 5 5 4 4 4 4 4 7 4 1 1 5 5 5 4
76122512 9 5 5 5 4 4 4 4 4 1 5 5 5 5 4 0
76122512 9 9 5 5 4 4 4 4 7 6 6 6 5 5 0 0

```

APPENDIX C

APPENDIX C

PERCENTAGE FREQUENCY OF WEATHER PATTERN OCCURRENCE

The data listings in this appendix present the percentage frequency of weather pattern occurrence in five sets of tables:

- Annual - all months
- Winter - December, January, February
- Spring - March, April, May
- Summer - June, July, August
- Autumn - September, October, November.

Following the annual and seasonal data are 10 sets of yearly frequency of occurrence, one for each year in the period 1969 to 1978. At the end of these tables is the final set on the variability of the yearly frequency of occurrence. This is expressed as 100 times the standard deviation of the 10 yearly means divided by the annual mean frequency.

All of the tables are presented by latitude band across the region. The 10 bands are presented from north to south. Seventeen columns of data are presented in each band. The first column denotes the weather pattern type. The other 16 columns are headed by the longitude of the grid point for which the percentage frequency of occurrence applies.

Annual

51 Degrees North Latitude

KPT	Degrees East Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	1.3	1.0	1.2	2.2	2.5	2.2	2.7	2.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	16.5	11.5	7.5	6.5	8.3	10.8	10.4	12.1	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1.4	1.3	1.8	2.2	2.2	2.3	2.7	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	17.5	23.1	32.0	27.8	25.1	24.5	26.2	28.2	27.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	15.5	23.2	18.4	18.6	22.7	26.0	26.7	25.1	25.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	6.4	8.5	13.9	17.4	14.3	11.8	9.8	8.1	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	7.7	6.0	6.8	7.7	8.9	9.5	10.9	12.2	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	33.7	25.3	18.5	17.5	15.9	12.8	10.7	9.0	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

48 Degrees North Latitude

1	2.3	1.3	1.1	2.1	3.2	3.5	3.7	4.2	4.2	4.3	4.0	3.5	3.9	3.4	3.3	2.9
2	11.3	10.8	7.3	5.8	6.8	8.3	9.8	10.9	12.2	13.0	13.8	14.7	14.8	14.5	14.4	14.8
3	2.4	1.8	2.1	2.4	3.1	3.5	3.6	3.4	3.5	3.1	3.0	3.0	2.7	2.6	2.3	1.9
4	9.8	22.9	26.2	33.6	28.4	25.6	26.2	27.4	27.2	28.3	28.2	27.5	28.0	28.3	26.4	21.6
5	7.3	20.3	24.0	18.0	18.3	23.7	25.4	25.5	26.8	24.8	23.4	22.8	20.9	19.0	14.1	9.8
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.6	1.0	1.3	1.7	2.2	3.3	4.6
7	5.5	6.4	10.8	15.7	17.8	14.0	11.9	9.8	8.0	6.7	5.9	5.6	5.6	4.8	5.3	5.5
8	8.4	5.6	5.0	5.4	6.1	7.0	7.9	9.9	11.0	12.9	14.1	15.0	15.6	17.3	20.9	23.8
9	52.9	30.7	23.4	16.9	16.2	14.4	11.5	8.9	6.9	6.4	6.7	6.6	6.8	7.9	10.0	15.0

45 Degrees North Latitude

1	1.9	1.2	1.3	1.3	3.1	4.5	4.9	4.4	4.4	4.6	5.3	5.2	4.2	3.9	3.8	3.6
2	6.8	7.3	5.1	4.5	4.2	5.9	7.3	9.3	9.9	10.4	11.0	12.4	13.2	12.8	12.8	11.6
3	3.1	2.8	2.5	3.0	3.0	3.2	3.4	3.7	4.1	4.0	4.1	3.9	3.9	3.6	3.0	2.9
4	4.0	22.2	24.8	29.9	34.6	26.7	25.0	26.6	27.2	28.8	26.8	26.2	26.7	27.6	27.5	21.8
5	3.3	19.4	25.7	25.5	17.6	19.5	24.4	26.7	28.9	26.4	24.6	23.0	21.9	18.0	11.9	6.7
6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.5	2.5	3.0	3.4	3.6	4.6	6.2	8.7
7	5.2	5.8	7.3	11.5	16.2	19.7	15.7	12.1	9.1	7.6	7.4	7.6	7.2	7.5	5.8	5.8
8	7.3	4.3	3.8	2.9	3.2	4.1	5.1	6.9	8.1	10.2	12.5	13.2	13.8	15.2	17.7	21.2
9	68.4	37.0	29.5	21.5	18.1	16.5	13.9	10.0	6.9	5.5	5.2	5.2	5.4	6.9	11.3	17.9

42 Degrees North Latitude

1	1.6	1.2	1.0	1.5	2.3	3.5	3.9	4.6	5.1	4.8	5.4	5.9	4.7	4.2	4.5	4.6
2	4.3	4.1	3.5	4.1	4.0	4.4	5.3	6.1	7.1	7.6	8.3	10.0	10.8	10.4	9.0	7.4
3	3.6	3.0	2.8	2.5	2.4	2.7	2.8	3.6	3.8	4.5	4.4	3.7	3.5	3.8	4.3	3.0
4	0.8	18.8	20.7	23.2	31.7	28.3	23.7	25.4	26.5	27.8	26.6	26.7	28.5	32.3	27.7	19.2
5	1.2	19.8	27.5	28.5	21.7	18.4	25.6	28.6	29.9	27.6	26.2	23.2	20.4	14.0	6.3	2.9
6	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.9	3.8	5.9	6.6	7.0	7.6	8.5	11.7	14.5
7	5.3	5.9	6.6	9.6	13.8	20.1	16.9	14.2	11.7	9.8	9.1	9.2	8.5	7.9	7.7	6.6
8	4.2	3.1	2.7	2.2	2.3	2.7	3.4	4.3	5.6	7.7	9.3	9.7	10.3	10.8	13.7	17.6
9	78.9	44.3	35.3	28.4	21.7	19.8	18.2	11.3	6.5	4.3	4.1	4.7	5.7	8.2	15.0	24.0

Annual

39 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	1.2	0.8	0.7	1.7	1.9	2.4	3.4	4.4	5.0	4.6	5.3	5.5	4.9	5.3	5.4	0.0
2	1.8	2.1	2.5	3.0	2.8	3.3	4.0	5.0	5.3	5.4	6.2	7.3	7.7	6.2	4.8	0.0
3	2.8	2.7	2.2	2.1	1.9	2.0	2.9	3.2	3.5	4.7	4.1	3.8	4.0	4.1	4.2	0.0
4	0.2	10.3	15.1	16.0	22.5	30.9	19.4	21.9	24.0	26.3	26.9	28.2	31.4	31.8	22.6	0.0
5	0.2	12.2	26.5	31.0	27.6	17.6	25.0	28.8	28.8	26.2	23.9	21.5	15.5	6.4	2.2	0.0
6	0.0	0.0	0.0	0.0	0.1	0.2	1.2	5.7	10.5	13.0	13.7	14.1	13.8	17.2	20.2	0.0
7	4.9	5.4	5.4	7.1	10.0	17.0	19.4	16.0	13.4	11.7	11.2	10.3	10.4	9.4	8.2	0.0
8	2.7	1.7	2.1	1.8	1.8	2.0	2.1	2.9	4.0	4.4	5.1	4.8	5.5	7.0	10.0	0.0
9	86.2	64.8	45.5	37.4	31.4	24.6	22.6	12.2	5.7	3.7	3.5	4.5	6.8	12.7	22.3	0.0

36 Degrees North Latitude

1	0.7	0.6	0.6	1.2	1.3	2.0	3.4	3.8	3.5	4.3	4.3	3.9	4.4	4.8	0.0	0.0
2	0.6	0.7	1.0	1.2	1.2	1.6	2.3	2.6	3.4	3.3	4.4	4.6	3.8	2.6	0.0	0.0
3	1.6	1.6	2.3	1.9	1.2	2.0	2.5	2.1	3.1	3.0	3.4	3.8	3.8	4.2	0.0	0.0
4	0.1	2.2	9.2	9.1	15.5	26.6	14.8	18.8	21.0	24.8	26.0	27.4	29.7	23.6	0.0	0.0
5	0.1	2.0	16.5	29.1	29.7	17.8	24.7	29.8	27.1	22.9	19.6	15.9	7.9	2.3	0.0	0.0
6	0.0	0.0	0.0	0.0	0.2	0.5	4.8	16.0	22.3	25.1	25.5	24.8	26.0	29.3	0.0	0.0
7	3.0	2.9	3.2	4.5	4.8	12.0	16.6	13.8	12.7	11.4	11.1	11.9	12.1	11.7	0.0	0.0
8	1.4	1.4	1.1	1.2	1.3	1.4	1.3	1.5	2.2	2.0	2.0	2.3	2.9	3.9	0.0	0.0
9	92.6	88.6	66.2	51.9	45.0	36.0	29.5	11.7	4.7	3.3	3.6	5.3	9.4	17.6	0.0	0.0

33 Degrees North Latitude

1	0.0	0.4	0.4	0.6	0.9	1.5	2.1	2.5	2.7	2.8	3.2	3.0	3.3	3.4	0.0	0.0
2	0.0	0.3	0.4	0.5	0.6	0.8	1.3	1.4	1.5	2.0	2.5	2.4	1.2	1.0	0.0	0.0
3	0.0	1.2	1.2	1.5	0.9	1.5	2.1	1.6	2.2	2.0	2.5	3.0	2.9	2.9	0.0	0.0
4	0.0	0.1	4.8	5.7	8.8	17.7	9.5	15.2	19.1	22.5	23.4	24.7	22.8	14.5	0.0	0.0
5	0.0	0.1	4.1	12.1	25.2	15.4	25.3	25.7	20.8	17.0	13.8	8.5	3.2	0.5	0.0	0.0
6	0.0	0.0	0.0	0.0	0.2	1.2	11.6	30.6	37.3	39.0	38.1	37.9	40.7	43.0	0.0	0.0
7	0.0	1.8	2.5	3.0	3.3	11.0	13.5	12.3	10.9	9.9	10.8	12.8	12.8	11.8	0.0	0.0
8	0.0	0.6	0.5	0.5	0.7	0.6	0.7	0.7	0.9	0.9	0.7	0.8	1.1	2.1	0.0	0.0
9	0.0	95.5	86.1	76.1	59.3	50.4	33.9	10.0	4.6	3.9	4.9	7.0	12.0	20.9	0.0	0.0

30 Degrees North Latitude

1	0.0	0.0	0.1	0.2	0.6	1.1	1.1	0.9	1.4	1.9	2.1	1.7	1.9	0.0	0.0	0.0
2	0.0	0.0	0.0	0.1	0.3	0.4	0.7	0.7	1.0	1.1	1.2	0.9	0.4	0.0	0.0	0.0
3	0.0	0.0	0.8	0.9	0.6	0.7	0.4	1.2	1.8	1.8	1.3	1.6	1.6	0.0	0.0	0.0
4	0.0	0.0	0.5	2.8	3.0	4.2	3.7	12.8	17.5	17.6	18.3	18.1	13.9	0.0	0.0	0.0
5	0.0	0.0	0.1	1.5	4.8	7.9	23.5	18.3	9.3	7.1	6.0	3.6	0.8	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.1	0.6	16.9	46.5	53.3	54.4	54.4	55.9	57.6	0.0	0.0
7	0.0	0.0	1.1	1.5	2.2	7.0	10.1	9.7	9.8	10.4	10.4	9.9	9.9	0.0	0.0	0.0
8	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.3	0.0	0.0	0.0
9	0.0	0.0	97.3	92.8	88.3	78.0	43.2	9.8	5.7	5.5	6.1	8.1	13.6	0.0	0.0	0.0

Annual

27 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.7	1.0	1.2	1.0	0.8	0.7	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.2	0.3	0.2	0.3	0.1	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	1.2	0.8	0.6	0.9	0.9	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	1.0	10.1	11.7	10.5	10.2	9.7	6.7	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	12.5	10.8	3.3	2.0	1.4	0.9	0.2	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	12.8	54.8	63.9	67.3	69.1	69.6	70.2	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	7.1	9.0	9.9	8.7	8.2	7.9	7.7	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	65.8	13.8	8.9	9.1	9.3	9.9	13.5	0.0	0.0	0.0

24 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	3.6	2.4	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.9	0.0	0.0	0.0	74.6	75.2	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	7.2	6.4	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.0	0.0	0.0	0.0	13.7	15.7	0.0	0.0	0.0

Winter

51 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	1.9	1.3	1.9	3.2	3.3	3.0	3.2	3.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	25.6	18.4	10.5	8.3	8.8	12.0	10.5	11.5	14.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1.0	0.9	1.0	1.2	1.7	1.7	2.4	1.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	7.0	12.9	34.3	24.2	20.4	22.9	25.6	33.3	34.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	22.6	32.3	15.2	17.6	24.3	25.7	26.9	23.2	19.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	10.8	15.2	22.5	28.7	22.3	16.9	13.5	8.5	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	10.4	6.9	6.3	6.4	7.3	7.4	9.1	10.6	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	20.7	12.2	8.3	10.3	12.0	10.4	8.6	8.2	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0

48 Degrees North Latitude

1	3.4	2.2	1.3	2.2	3.3	4.2	3.9	3.8	2.8	3.2	2.8	2.4	2.3	1.7	1.8	1.2
2	19.2	18.2	11.1	8.5	8.0	9.4	10.5	11.5	13.0	14.5	16.1	18.0	18.4	17.0	16.4	15.9
3	3.2	2.0	1.8	1.2	1.4	1.8	2.1	2.7	3.0	2.4	3.2	1.4	1.7	1.7	0.4	1.0
4	3.9	12.4	23.9	38.0	25.4	22.0	25.1	30.2	33.3	31.8	26.8	24.7	25.8	26.9	27.3	24.4
5	12.1	29.9	27.2	10.3	16.2	24.5	24.8	24.3	20.4	16.7	17.1	19.6	18.5	18.4	13.2	9.1
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.9	1.8	2.8
7	7.5	10.6	18.2	26.5	28.7	20.0	16.9	10.9	8.8	7.1	6.5	5.5	4.5	2.7	2.7	2.4
8	12.7	8.0	5.9	5.2	6.2	6.3	8.4	9.3	12.2	15.6	18.4	19.6	19.8	23.3	28.3	31.8
9	37.9	16.6	10.6	8.0	10.8	11.9	8.3	7.4	6.7	8.5	9.0	8.4	8.5	7.5	8.2	11.4

45 Degrees North Latitude

1	3.4	2.4	2.7	1.8	3.0	3.5	4.7	3.2	2.8	2.2	4.0	5.3	3.4	2.4	2.5	2.8
2	11.5	14.0	8.4	6.7	4.7	5.7	7.3	10.5	10.8	11.9	14.9	17.6	19.3	17.1	16.0	14.0
3	3.8	3.7	2.5	1.7	1.0	1.4	1.3	2.1	3.0	4.2	4.4	2.3	2.3	2.2	1.7	1.7
4	1.2	12.3	20.3	36.3	41.4	25.3	22.6	29.3	32.8	33.0	24.4	22.4	24.1	26.8	29.2	24.8
5	5.7	30.4	33.8	21.7	8.8	17.0	25.9	26.1	24.2	20.8	19.1	18.3	21.5	18.0	12.1	5.5
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.6	0.8	1.0	2.4	4.7
7	6.4	7.6	10.3	16.7	28.2	29.9	20.2	12.2	9.0	6.5	7.3	6.9	4.7	4.4	2.3	2.7
8	13.1	6.7	4.4	2.9	3.3	4.1	5.5	8.0	10.5	13.4	18.5	20.1	18.8	21.8	25.4	31.0
9	54.9	22.9	17.5	12.3	9.8	13.1	12.4	8.6	7.0	7.8	7.2	6.5	5.1	6.2	8.4	12.9

42 Degrees North Latitude

1	3.3	2.7	2.1	1.7	2.1	2.5	2.9	2.8	3.3	3.4	4.0	6.0	3.8	2.8	3.8	5.0
2	7.5	7.9	5.5	6.0	5.3	4.9	5.7	7.0	8.5	10.3	12.2	13.6	15.6	14.9	13.0	9.1
3	5.0	3.0	3.2	2.0	1.7	1.9	2.0	2.0	2.8	4.7	4.5	2.9	3.7	4.0	4.1	2.0
4	0.1	11.8	19.0	27.7	49.4	35.1	20.5	26.7	32.5	33.1	27.8	24.3	25.6	32.3	30.5	22.3
5	2.1	33.5	40.1	34.4	12.5	8.5	25.8	29.9	28.3	25.6	24.1	23.3	22.3	15.7	7.1	3.7
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.7	1.0	1.2	2.4	4.4	9.3
7	6.5	7.3	6.4	10.0	15.2	28.9	21.4	13.4	9.8	7.2	7.1	6.3	5.7	3.9	3.8	3.3
8	8.0	5.2	3.7	2.7	1.8	2.7	2.9	5.1	7.2	10.1	15.0	17.3	17.1	16.6	22.4	27.7
9	67.4	28.7	20.0	15.6	12.0	15.4	18.8	13.0	7.4	5.3	4.7	5.3	5.1	7.4	11.0	17.6

Winter

39 Degrees North Latitude

WPT	Degrees West Longitude														
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70
1	2.2	2.2	1.7	2.1	1.2	1.8	1.8	2.2	4.2	3.9	5.4	5.5	4.3	5.7	7.0
2	4.3	4.0	4.5	4.4	4.2	4.4	5.8	6.3	7.1	8.1	9.8	12.2	12.2	9.0	7.2
3	4.2	3.8	2.4	2.1	2.4	1.4	1.9	2.5	3.1	5.4	4.8	4.1	5.2	3.9	4.7
4	0.1	9.4	15.6	20.8	36.5	48.8	17.3	24.9	31.5	33.3	32.0	31.8	32.6	37.4	28.9
5	0.2	25.5	40.9	41.7	28.6	6.4	23.6	34.6	31.4	29.9	26.4	23.9	21.4	9.3	3.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.7	0.9	1.6	2.7	3.8	6.7	11.1
7	5.9	6.4	5.5	5.3	6.1	19.4	22.4	11.3	9.2	8.1	7.5	6.3	5.7	4.7	4.3
8	5.1	2.9	3.2	2.4	1.9	1.8	2.0	3.4	5.7	6.4	8.6	9.2	10.1	12.4	16.4
9	77.9	45.8	26.1	21.1	19.1	16.0	25.2	14.2	7.2	4.0	3.9	4.2	4.8	11.1	17.4

36 Degrees North Latitude

1	1.6	1.8	1.1	1.4	0.9	1.9	3.4	4.1	3.9	5.8	5.1	5.4	5.7	5.9	0.0
2	1.7	1.8	1.8	1.7	1.8	2.7	3.8	3.4	5.1	5.1	8.0	8.2	6.4	3.7	0.0
3	3.8	2.4	3.0	2.5	1.9	2.4	2.1	2.7	4.8	4.1	6.0	5.0	5.0	5.7	0.0
4	0.0	1.2	12.1	15.3	25.4	44.3	14.7	22.6	28.0	33.4	34.4	34.5	36.9	33.3	0.0
5	0.1	4.0	32.5	42.5	35.7	8.2	25.1	39.8	36.0	31.9	24.8	21.7	12.3	3.9	0.0
6	0.0	0.0	0.0	0.0	0.1	0.1	0.3	1.8	3.7	4.3	6.1	6.7	11.1	17.7	0.0
7	4.1	3.3	4.1	4.3	4.4	14.0	17.3	10.1	10.1	9.3	8.8	9.9	9.5	9.1	0.0
8	2.9	2.0	1.4	2.1	1.6	1.1	1.1	2.1	3.2	2.4	3.3	3.7	5.4	6.8	0.0
9	85.9	83.5	44.0	30.2	28.3	25.3	32.2	13.4	5.2	3.7	3.5	5.0	7.6	14.1	0.0

33 Degrees North Latitude

1	0.0	1.3	0.6	0.8	1.3	2.2	2.9	3.1	4.4	4.8	4.3	4.7	4.5	5.4	0.0
2	0.0	0.6	0.8	0.4	0.8	1.1	2.1	2.7	2.5	4.0	5.7	5.0	2.3	1.1	0.0
3	0.0	2.0	2.2	2.3	1.6	1.7	2.3	2.5	3.9	2.9	4.2	4.8	5.3	5.4	0.0
4	0.0	0.0	5.9	10.1	15.9	30.0	11.5	20.2	27.4	33.3	35.0	35.8	35.5	26.6	0.0
5	0.0	0.2	8.9	23.7	34.0	11.0	30.5	38.7	31.3	25.8	21.2	14.9	5.3	0.9	0.0
6	0.0	0.0	0.0	0.0	0.0	0.1	2.0	8.0	12.9	14.3	15.5	18.4	25.4	30.7	0.0
7	0.0	2.2	3.8	3.8	4.1	11.0	12.1	9.5	10.6	9.2	9.1	10.4	10.2	9.4	0.0
8	0.0	0.9	0.7	0.8	1.2	0.8	0.6	1.2	1.7	1.9	1.0	0.9	1.6	3.4	0.0
9	0.0	92.8	77.3	58.1	41.1	42.1	36.0	14.1	5.3	3.9	4.0	5.2	9.9	17.0	0.0

30 Degrees North Latitude

1	0.0	0.0	0.3	0.3	1.3	1.7	1.7	1.6	2.7	4.3	3.5	2.4	3.7	0.0	0.0
2	0.0	0.0	0.0	0.0	0.3	0.4	1.1	1.2	2.3	2.4	2.7	2.1	0.7	0.0	0.0
3	0.0	0.0	1.4	1.4	0.7	0.7	0.3	2.0	3.9	3.4	3.0	3.0	2.9	0.0	0.0
4	0.0	0.0	0.1	3.1	4.1	6.0	5.2	18.7	26.1	28.4	31.3	32.2	26.2	0.0	0.0
5	0.0	0.0	0.1	3.2	6.9	7.3	31.4	30.3	16.9	13.3	11.2	7.3	1.2	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.2	4.7	22.1	29.4	32.0	32.9	36.1	43.7	0.0	0.0
7	0.0	0.0	2.4	1.9	2.7	8.3	11.4	11.6	13.1	12.3	11.0	10.4	10.1	0.0	0.0
8	0.0	0.0	0.0	0.0	0.3	0.3	0.2	0.2	0.6	0.3	0.3	0.1	0.6	0.0	0.0
9	0.0	0.0	95.6	90.0	83.7	75.1	44.0	12.3	5.2	3.4	4.1	6.3	11.1	0.0	0.0

Winter

27 Degrees North Latitude

WPT	Degrees West Longitude														
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70
1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1	1.9	3.0	2.3	1.3	1.9	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.3	0.6	0.3	0.7	0.2	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.4	3.3	1.4	1.2	1.8	1.9	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	1.6	17.2	21.0	20.4	20.4	19.8	14.6	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	19.0	18.4	7.0	5.1	3.1	2.2	0.4	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	7.8	32.0	42.8	48.8	52.5	54.0	57.9	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	10.9	13.9	15.0	13.3	13.5	12.6	11.6	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	59.8	15.6	8.8	7.3	6.5	7.5	11.4	0.0	0.0

24 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.6	0.4	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.9	0.4	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.7	0.0	0.0	0.0	8.8	5.7	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	0.0	0.0	0.0	0.3	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5	0.0	0.0	0.0	66.1	67.3	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	0.0	0.0	0.0	14.2	12.1	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.8	0.0	0.0	0.0	9.2	14.1	0.0	0.0

Spring

51 Degrees North Latitude

WPT	Degrees West Longitude										86	82	78	74	70	66
	126	122	118	114	110	106	102	98	94	90						
1	0.7	0.5	0.9	1.4	2.0	2.0	2.5	2.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	16.0	10.3	6.8	6.7	9.6	11.6	10.8	11.4	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1.1	0.8	1.6	2.3	2.1	2.1	2.1	2.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	20.1	27.9	31.3	25.2	19.8	16.7	19.6	23.0	24.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	8.9	15.7	14.9	17.3	25.3	31.8	35.0	34.2	33.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	5.0	6.7	12.5	17.7	13.8	12.3	9.0	7.1	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	8.7	7.4	7.9	8.4	9.0	9.6	9.9	9.9	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	39.6	30.7	24.0	21.0	18.5	13.9	11.2	8.7	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0

48 Degrees North Latitude

1	1.2	0.9	0.7	1.3	2.9	3.5	3.7	3.3	3.4	3.5	2.9	2.9	2.8	2.2	2.3	2.5
2	11.4	10.0	7.6	7.0	7.8	9.6	12.5	12.3	12.8	12.9	12.9	13.3	13.8	14.1	14.7	15.2
3	2.1	1.1	1.3	3.0	3.3	3.2	2.7	2.8	2.7	2.3	2.2	2.3	2.1	2.0	1.4	1.3
4	11.8	29.7	30.0	31.5	23.7	22.0	20.7	23.5	24.2	27.2	30.7	32.2	31.0	30.5	26.0	20.3
5	4.1	12.8	17.6	17.1	19.6	25.3	29.8	30.4	32.2	31.0	26.0	22.0	19.2	16.8	12.5	8.8
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.3	0.5	1.5	2.3
7	3.8	4.7	7.7	12.6	15.8	12.7	10.9	8.3	7.0	5.0	4.9	4.2	5.3	4.1	4.5	3.7
8	8.6	7.1	7.3	8.0	8.6	8.0	8.5	10.8	11.3	12.5	14.0	16.0	18.3	20.3	26.0	29.9
9	57.0	33.8	27.8	19.5	18.4	15.8	11.3	8.7	6.3	5.5	6.3	6.8	7.2	9.3	11.2	16.0

45 Degrees North Latitude

1	1.7	0.5	0.4	1.0	2.8	4.2	4.0	3.4	2.4	3.7	3.8	3.0	3.4	2.7	1.8	2.5
2	7.6	7.6	5.2	6.0	5.3	9.0	12.1	12.9	11.2	12.2	12.0	12.3	12.8	14.3	13.4	11.8
3	2.8	1.3	2.2	3.5	3.6	3.0	2.9	2.3	3.4	3.0	3.2	3.3	2.9	2.5	2.7	2.7
4	3.9	30.5	31.3	31.6	30.4	23.4	19.7	22.8	24.8	25.4	28.5	30.0	29.2	28.9	23.8	16.3
5	1.5	11.6	18.3	21.1	17.0	18.5	25.9	28.8	31.3	29.9	26.6	23.3	19.9	15.3	12.0	7.6
6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.1	1.1	1.1	1.0	1.1	1.6	3.2	4.7
7	4.9	4.5	5.8	9.2	13.5	17.0	14.0	11.4	7.4	6.4	5.7	6.1	6.6	7.3	4.7	4.3
8	7.5	5.5	6.6	5.2	6.7	7.6	7.8	9.1	11.2	13.5	14.9	15.8	17.8	20.2	25.2	31.5
9	70.0	38.4	30.2	22.4	20.7	17.3	13.5	9.1	7.3	4.8	4.3	5.3	6.2	7.1	13.3	18.5

42 Degrees North Latitude

1	1.7	0.7	0.7	2.0	2.2	3.6	4.3	5.0	4.6	5.2	5.0	4.9	4.3	3.6	3.5	3.9
2	5.2	4.5	4.5	6.1	6.5	7.7	9.0	9.8	10.8	10.3	11.3	12.0	12.7	12.6	10.9	8.2
3	2.7	3.2	3.6	2.7	3.2	2.3	2.3	2.6	4.3	4.3	3.6	2.9	3.8	3.3	3.9	2.4
4	1.3	26.1	26.0	25.5	27.5	23.4	20.3	23.9	22.5	24.7	27.8	30.4	30.1	30.7	24.0	14.6
5	0.2	10.8	19.6	22.4	18.4	18.8	26.8	29.5	30.2	28.5	26.3	22.3	18.6	14.6	7.3	3.6
6	0.0	0.0	0.0	0.0	0.0	0.1	0.2	1.4	2.2	2.8	2.9	2.9	2.9	3.8	6.8	9.2
7	5.1	6.1	7.0	9.1	13.8	17.8	15.8	12.0	10.7	8.2	7.1	7.0	6.1	6.4	6.4	4.3
8	3.8	3.7	3.9	4.1	6.0	6.5	7.0	7.6	9.2	12.5	12.5	12.8	14.8	16.1	20.3	28.6
9	79.9	45.1	34.9	28.0	22.5	19.8	14.2	8.3	5.5	3.5	3.5	4.8	6.6	9.0	16.8	25.2

Spring

39 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	1.3	0.7	0.3	2.2	3.5	3.8	4.5	5.0	5.9	5.0	5.8	7.0	6.0	5.7	5.2	0.0
2	1.6	2.9	3.3	4.7	4.7	5.5	6.3	7.7	8.7	8.3	8.4	9.1	10.7	8.9	6.6	0.0
3	2.8	3.6	3.3	3.4	2.6	2.6	3.4	4.3	4.9	5.1	4.5	4.2	4.7	4.5	4.0	0.0
4	0.5	16.6	19.8	18.0	20.4	21.4	18.8	21.5	21.3	24.0	28.5	31.5	30.5	31.2	20.5	0.0
5	0.1	5.0	17.9	22.6	22.4	19.2	26.1	27.9	29.7	28.5	24.7	21.1	17.4	8.5	3.4	0.0
6	0.0	0.0	0.0	0.0	0.0	0.1	0.7	3.7	6.4	8.4	7.5	6.3	7.0	10.8	14.2	0.0
7	5.0	6.6	6.6	9.0	10.3	17.1	17.4	15.1	11.7	9.6	9.9	9.1	8.3	7.7	6.0	0.0
8	2.8	2.0	3.3	3.5	4.2	4.8	4.5	5.8	7.2	8.2	7.7	7.0	7.5	10.4	16.4	0.0
9	85.8	62.6	45.5	36.6	31.8	25.4	18.5	8.9	4.2	3.0	3.2	4.7	8.0	12.4	23.6	0.0

36 Degrees North Latitude

1	0.3	0.1	0.8	2.1	2.8	2.8	4.0	5.8	5.9	5.8	5.8	5.3	6.0	6.5	0.0	0.0
2	0.4	0.8	1.2	2.0	1.8	2.6	3.9	4.5	5.5	4.7	6.2	6.7	5.9	3.8	0.0	0.0
3	1.1	1.8	3.7	3.5	1.7	3.7	5.0	3.7	4.2	3.9	4.1	4.9	4.3	5.0	0.0	0.0
4	0.1	4.7	13.8	10.8	16.6	18.9	15.1	19.8	20.9	24.7	28.4	29.1	30.3	23.3	0.0	0.0
5	0.0	0.5	9.1	22.5	21.8	19.6	26.8	30.5	29.3	26.3	23.3	19.0	12.2	3.7	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.2	2.6	11.4	15.1	18.6	17.7	16.1	17.3	21.6	0.0	0.0
7	3.4	4.3	4.2	6.8	6.0	12.4	15.0	12.6	11.3	9.3	8.3	9.7	10.7	11.1	0.0	0.0
8	1.5	2.1	2.0	1.5	2.8	3.5	2.9	2.6	3.7	4.0	3.3	3.9	4.1	6.4	0.0	0.0
9	93.2	85.7	65.2	50.9	46.3	36.3	24.6	9.1	4.0	2.7	3.0	5.2	9.2	18.6	0.0	0.0

33 Degrees North Latitude

1	0.0	0.1	0.8	1.1	1.4	2.0	3.4	4.5	4.2	4.1	5.0	3.9	5.2	5.2	0.0	0.0
2	0.0	0.4	0.3	1.1	1.3	2.0	2.2	1.8	2.2	2.5	3.2	3.2	1.6	1.7	0.0	0.0
3	0.0	1.2	1.4	2.5	0.9	3.3	4.1	2.6	2.3	3.3	3.9	4.6	3.3	2.7	0.0	0.0
4	0.0	0.2	9.0	7.9	10.5	13.5	10.3	17.4	20.9	23.6	23.9	26.2	23.8	12.5	0.0	0.0
5	0.0	0.0	1.6	7.5	19.5	16.3	29.1	27.6	23.4	21.0	17.9	11.6	5.4	0.9	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.1	6.3	25.3	31.5	32.7	29.9	31.6	35.1	37.7	0.0	0.0
7	0.0	2.6	3.8	5.2	4.5	12.2	13.3	12.3	10.4	8.8	10.7	10.7	11.1	11.6	0.0	0.0
8	0.0	1.0	1.0	1.1	1.2	1.3	1.4	1.1	1.4	1.3	1.2	1.4	2.0	3.7	0.0	0.0
9	0.0	94.5	82.1	73.6	60.8	49.5	29.9	7.4	3.7	2.7	4.3	6.8	12.5	23.9	0.0	0.0

30 Degrees North Latitude

1	0.0	0.0	0.2	0.4	0.8	1.7	2.0	1.7	1.7	2.2	3.6	3.4	2.8	0.0	0.0	0.0
2	0.0	0.0	0.1	0.2	0.5	0.9	1.3	0.8	0.9	0.9	1.2	0.9	0.7	0.0	0.0	0.0
3	0.0	0.0	1.0	1.6	0.8	1.7	1.4	1.3	1.8	2.7	1.5	2.0	1.7	0.0	0.0	0.0
4	0.0	0.0	1.0	5.8	4.9	4.0	3.0	14.3	18.0	18.0	17.7	18.0	13.2	0.0	0.0	0.0
5	0.0	0.0	0.1	0.7	3.7	8.0	26.6	18.4	9.1	7.9	7.7	4.8	1.5	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.1	0.1	13.3	42.7	52.2	51.5	52.6	52.3	54.1	0.0	0.0	0.0
7	0.0	0.0	1.5	2.8	3.4	9.6	12.3	12.7	12.0	12.8	10.3	10.9	11.0	0.0	0.0	0.0
8	0.0	0.0	0.3	0.7	0.5	0.4	0.5	0.2	0.2	0.2	0.2	0.3	0.5	0.0	0.0	0.0
9	0.0	0.0	95.8	87.8	85.3	73.5	39.6	7.8	4.0	3.7	5.1	7.5	14.5	0.0	0.0	0.0

Spring

27 Degrees North Latitude

WPT	Degrees West Longitude														
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70
1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.0	1.5	1.0	1.4	1.3	0.4	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.3	0.9	1.4	0.5	1.0	1.1	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.2	9.6	9.9	8.9	8.9	8.7	5.5	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	12.9	10.4	2.5	1.5	1.7	1.4	0.3	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	13.3	55.5	67.8	70.7	71.1	70.7	70.4	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	9.7	11.4	11.5	9.9	8.3	7.8	8.4	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	62.2	11.5	5.7	6.4	7.8	8.8	13.5	0.0	0.0

24 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.4	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.1	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	2.3	1.1	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.3	0.1	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5	0.0	0.0	0.0	78.2	76.7	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0	7.3	6.3	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.1	0.0	0.0	0.0	11.3	15.2	0.0	0.0

Summer

51 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.2	0.2	0.2	1.0	0.8	1.0	2.1	1.8	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	6.9	4.1	3.3	4.0	6.3	8.1	8.1	11.2	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1.1	1.0	1.8	1.7	1.6	2.8	3.4	3.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	30.0	32.0	30.2	31.8	31.7	29.1	29.7	26.9	24.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	10.0	15.2	21.9	20.7	21.3	23.4	22.7	22.3	26.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	3.5	4.6	8.2	9.2	9.1	9.1	7.9	8.8	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	3.8	4.7	7.3	9.1	11.1	11.2	12.7	13.7	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	44.5	38.3	27.1	22.5	18.2	15.2	13.4	11.5	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0

48 Degrees North Latitude

1	0.9	0.2	0.9	1.3	2.2	2.0	3.4	5.4	5.1	4.7	4.6	4.2	5.7	6.2	5.2	4.6
2	3.6	2.5	2.4	2.6	5.3	6.0	6.7	8.6	10.6	10.1	11.0	10.8	11.7	12.5	12.3	13.1
3	2.1	1.6	2.2	2.1	4.2	5.4	4.8	3.9	4.6	4.7	4.4	5.4	4.1	3.6	4.2	3.6
4	16.6	31.6	26.7	29.9	33.6	29.8	30.5	28.4	25.3	26.1	28.2	27.4	29.4	28.3	24.8	16.7
5	2.7	9.8	18.8	24.2	19.6	23.4	24.9	24.1	29.7	28.1	26.1	24.9	21.1	17.8	13.3	9.8
6	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.5	1.3	2.6	2.8	3.3	3.8	5.5	7.0
7	4.9	4.4	8.0	9.8	10.7	10.5	10.2	11.4	8.6	8.5	6.5	7.3	7.2	8.5	9.4	11.0
8	3.3	3.0	3.0	4.2	4.7	6.0	5.3	7.3	8.4	10.7	9.8	10.2	9.5	9.7	11.9	12.8
9	66.1	46.9	38.1	25.9	19.6	16.8	14.2	10.7	7.3	5.9	6.8	6.8	7.9	9.8	13.2	21.5

45 Degrees North Latitude

1	0.4	0.2	0.5	0.4	2.2	4.8	5.6	6.0	6.8	7.3	7.4	6.7	5.6	6.1	6.9	6.2
2	2.1	1.3	1.6	1.6	2.0	2.8	3.5	5.4	6.6	6.7	6.2	7.0	7.7	7.7	9.2	8.9
3	2.2	2.9	2.7	3.0	4.6	5.0	5.6	5.2	5.0	5.3	4.9	6.0	6.5	6.0	4.4	4.2
4	7.2	29.5	25.9	22.0	29.0	27.5	28.5	25.9	24.2	26.8	28.3	27.4	28.5	28.0	26.2	16.4
5	1.5	7.0	14.6	27.7	24.7	23.2	22.7	27.5	32.2	28.4	26.1	24.4	20.5	16.2	10.3	7.2
6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.3	3.4	5.4	6.9	7.4	7.8	9.8	11.1	13.8
7	4.0	4.0	5.3	9.7	11.0	16.6	16.7	15.1	11.6	10.4	9.4	9.2	9.8	10.0	9.5	10.1
8	1.6	0.5	1.1	1.2	1.0	1.3	1.8	2.6	3.7	4.3	5.2	6.0	6.2	6.1	6.0	6.7
9	81.0	54.4	48.2	34.4	25.7	18.8	15.4	11.0	6.5	5.3	5.5	5.9	7.4	10.3	16.3	26.6

42 Degrees North Latitude

1	0.2	0.2	0.1	1.2	2.9	4.0	4.7	5.7	6.6	5.3	6.2	5.9	6.3	6.2	6.0	5.1
2	0.9	0.4	0.7	0.8	1.2	1.3	2.0	2.3	2.8	3.6	3.0	5.0	4.8	6.2	5.4	5.1
3	2.7	2.3	2.7	2.6	2.7	3.7	3.9	4.6	4.6	3.9	4.3	4.9	3.6	3.9	5.1	3.7
4	1.2	23.6	19.7	16.8	16.9	23.8	24.1	21.8	21.3	23.9	24.2	26.2	29.5	32.0	21.8	13.1
5	0.3	6.2	12.3	21.8	29.4	25.5	25.2	27.8	30.8	26.9	24.5	20.9	16.6	10.2	5.2	2.4
6	0.0	0.0	0.0	0.0	0.1	0.3	1.1	5.0	9.4	14.4	16.7	16.7	16.4	16.6	20.4	21.6
7	3.7	3.8	6.5	10.4	14.1	15.8	17.7	19.0	16.3	14.9	13.2	13.9	13.1	12.0	11.9	11.6
8	0.9	0.4	0.4	0.2	0.4	0.2	0.4	1.0	1.4	2.3	2.9	1.4	2.3	2.1	2.6	4.1
9	90.1	63.0	57.6	46.2	32.2	25.4	21.0	12.9	6.8	4.9	4.9	5.1	7.5	10.8	21.6	33.3

Summer

39 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.1	0.3	1.3	1.5	1.8	3.9	5.3	4.8	5.3	5.5	4.6	5.0	5.2	5.1	0.0
2	0.1	0.1	0.2	0.2	0.7	0.7	0.4	1.0	1.0	1.2	1.8	2.0	2.0	2.5	1.8	0.0
3	1.2	1.1	1.3	1.3	1.1	1.6	2.8	2.9	2.8	3.3	2.8	2.7	2.5	3.7	3.5	0.0
4	0.1	9.4	12.3	8.8	10.8	19.4	17.8	15.5	15.7	19.8	19.3	20.9	28.1	22.8	13.2	0.0
5	0.0	2.0	10.3	21.4	24.4	23.1	23.6	24.8	24.1	18.8	17.4	14.6	7.4	2.4	1.2	0.0
6	0.0	0.0	0.0	0.0	0.2	0.9	3.7	15.1	25.4	30.0	31.3	32.1	27.7	30.8	29.7	0.0
7	3.6	3.7	4.0	6.5	13.3	16.3	21.0	22.1	19.5	17.5	17.1	17.5	18.2	15.2	15.2	0.0
8	0.2	0.2	0.0	0.0	0.1	0.1	0.2	0.1	0.1	0.3	0.8	0.3	0.5	0.7	1.4	0.0
9	94.8	83.4	71.6	60.5	47.8	36.1	26.5	13.1	6.6	3.8	3.9	5.3	8.7	16.8	28.9	0.0

36 Degrees North Latitude

1	0.0	0.0	0.2	0.2	0.2	0.9	2.2	2.1	2.1	2.9	2.9	2.8	3.0	3.0	0.0	0.0
2	0.0	0.0	0.1	0.1	0.0	0.2	0.1	0.2	0.1	0.4	0.5	0.5	0.7	0.5	0.0	0.0
3	0.0	0.3	0.4	0.2	0.2	0.4	0.8	0.5	0.5	1.8	1.2	1.3	1.6	1.4	0.0	0.0
4	0.1	2.2	3.7	1.2	5.3	14.4	11.2	9.5	11.8	13.2	12.9	15.8	17.4	10.8	0.0	0.0
5	0.0	0.3	2.5	14.2	22.6	20.6	20.1	18.8	14.4	9.9	9.3	7.4	2.4	0.4	0.0	0.0
6	0.0	0.0	0.0	0.0	0.3	1.5	14.0	39.6	51.4	53.5	52.5	48.7	45.8	44.0	0.0	0.0
7	1.7	0.9	1.1	1.8	2.9	9.1	17.1	17.9	15.9	15.2	16.1	16.4	17.1	18.4	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.3	0.0	0.0
9	98.2	96.3	92.0	82.2	68.4	52.8	34.6	11.3	3.6	3.0	4.4	6.9	11.9	20.9	0.0	0.0

33 Degrees North Latitude

1	0.0	0.0	0.0	0.1	0.2	0.3	0.9	0.5	0.5	0.9	1.3	1.3	0.9	0.9	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0
3	0.0	0.0	0.2	0.0	0.0	0.2	0.3	0.2	0.4	0.3	0.2	0.4	0.5	0.7	0.0	0.0
4	0.0	0.2	2.7	0.7	1.8	9.0	5.1	5.2	6.2	7.7	7.9	7.6	6.1	3.4	0.0	0.0
5	0.0	0.0	0.4	2.8	14.5	12.0	13.3	10.4	6.7	4.2	3.0	1.1	0.8	0.1	0.0	0.0
6	0.0	0.0	0.0	0.0	0.2	3.4	30.2	63.1	72.7	73.0	69.0	63.2	60.0	57.0	0.0	0.0
7	0.0	0.5	0.3	0.9	1.1	8.2	12.3	13.2	10.7	10.4	12.7	17.8	18.3	15.1	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
9	0.0	99.2	96.3	95.6	82.1	66.8	38.0	7.3	2.7	3.5	5.7	8.5	13.3	22.7	0.0	0.0

30 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.1	0.3	0.1	0.1	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.3	0.1	0.0	0.1	0.0	0.0	0.0	0.0
4	0.0	0.0	0.5	1.1	0.5	2.2	2.1	3.0	4.4	3.1	3.1	2.1	1.5	0.0	0.0	0.0
5	0.0	0.0	0.0	0.7	2.4	4.2	8.6	5.1	1.3	0.7	0.4	0.2	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.1	1.0	34.9	81.1	85.7	84.7	81.3	80.6	76.8	0.0	0.0	0.0
7	0.0	0.0	0.1	0.0	0.5	3.7	6.1	4.2	4.7	6.5	8.8	9.2	8.9	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	99.2	98.3	96.4	88.8	48.2	6.5	3.5	4.8	6.0	7.7	12.7	0.0	0.0	0.0

Summer

27 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.5	1.5	0.7	0.7	0.4	0.2	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	3.3	2.4	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	20.4	83.4	89.7	90.8	90.1	89.9	87.6	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.7	2.5	1.4	1.7	2.3	1.8	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	73.9	9.9	5.9	6.8	7.5	7.4	10.3	0.0	0.0	0.0

24 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.6	0.0	0.0	0.0	90.0	91.2	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.4	0.0	0.0	0.0	9.8	8.2	0.0	0.0	0.0

Autumn

51 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	2.6	1.9	2.0	3.1	3.9	3.0	2.8	2.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	17.5	13.5	9.5	7.2	8.7	11.6	12.3	14.2	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	2.4	2.5	2.6	3.5	3.2	2.6	3.0	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	12.6	19.5	32.2	30.2	28.7	29.1	29.8	29.7	26.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	20.6	30.2	21.6	18.9	20.1	23.2	22.3	20.5	23.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	6.6	7.5	12.3	14.1	12.2	9.2	8.7	8.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	8.2	5.1	5.6	6.9	8.3	9.7	11.9	14.6	14.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	29.4	19.8	14.1	16.1	15.0	11.7	9.3	7.5	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0

48 Degrees North Latitude

1	3.9	2.0	1.7	3.4	4.5	4.1	3.9	4.3	5.6	6.0	5.6	4.4	4.5	3.6	3.7	3.4
2	11.2	12.8	8.4	5.2	6.2	8.4	9.5	11.4	12.6	14.4	15.2	16.8	15.5	14.4	14.3	15.2
3	2.4	2.6	2.9	3.1	3.5	3.5	4.7	4.3	3.6	3.2	2.0	2.9	2.9	3.2	3.1	1.9
4	6.7	17.6	24.1	35.1	30.9	28.8	28.7	27.7	26.2	28.0	27.0	25.6	25.9	27.5	27.5	25.0
5	10.4	29.2	32.9	20.5	18.0	21.7	21.9	22.9	24.6	23.0	24.3	24.6	24.8	22.9	17.2	11.7
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9	1.3	2.0	2.8	3.5	4.4	6.2
7	6.0	6.0	9.5	14.3	16.2	12.8	9.8	8.6	7.6	6.2	5.6	5.4	5.2	3.7	4.7	5.0
8	8.9	4.5	4.0	4.2	5.0	7.7	9.4	12.1	12.0	12.7	14.4	14.1	14.8	16.0	17.5	20.8
9	50.5	25.2	16.6	14.2	15.8	13.0	12.1	8.7	7.3	5.6	4.5	4.3	3.6	5.1	7.5	10.8

45 Degrees North Latitude

1	2.1	1.8	1.4	2.0	4.3	5.4	5.2	4.9	5.5	5.3	6.2	5.6	4.4	4.4	4.0	2.9
2	6.2	6.6	5.4	3.6	5.0	6.0	6.5	8.2	11.1	10.7	10.9	12.7	13.1	12.1	12.6	11.7
3	3.6	3.5	2.6	3.7	2.9	3.4	3.6	5.1	4.9	3.3	4.1	4.2	3.6	3.5	3.3	3.1
4	3.4	16.1	21.6	29.8	37.7	30.7	29.3	28.4	27.2	30.0	26.0	24.7	25.0	26.6	30.9	29.7
5	4.6	28.8	36.3	31.6	19.7	19.2	23.3	24.4	27.6	26.4	26.2	25.8	25.8	22.5	13.5	6.3
6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.3	3.2	3.7	4.5	4.9	6.0	7.9	11.6
7	5.5	7.1	7.7	10.4	12.5	15.4	12.1	9.6	8.3	7.2	7.4	8.3	7.7	8.3	6.4	5.8
8	7.1	4.4	3.0	2.3	1.9	3.3	5.4	7.8	7.2	9.8	11.7	11.2	12.3	12.8	14.2	15.5
9	67.5	31.8	21.9	16.5	16.1	16.6	14.4	11.4	6.9	4.2	3.7	3.0	3.1	3.9	7.3	13.5

42 Degrees North Latitude

1	1.3	1.1	1.0	1.2	2.0	3.9	3.9	4.9	6.1	5.4	6.4	6.7	4.3	4.1	4.9	4.5
2	3.7	3.5	3.2	3.7	2.9	3.6	4.4	5.3	6.5	6.1	6.6	9.6	10.4	8.0	6.8	7.4
3	4.0	3.6	1.9	2.8	2.2	3.0	2.9	5.4	3.4	5.2	5.2	4.2	3.0	3.9	4.2	4.1
4	0.8	13.3	17.9	22.7	33.3	31.1	29.8	29.2	30.1	29.7	26.7	25.7	28.6	34.1	34.7	26.9
5	2.0	29.1	38.4	35.5	26.5	20.5	24.5	27.2	30.1	29.2	29.7	26.2	24.1	15.7	5.6	2.1
6	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.0	3.1	6.0	6.1	7.1	9.6	11.0	15.1	18.0
7	6.1	6.3	6.6	8.9	12.2	17.9	12.8	12.3	10.0	8.8	9.0	9.5	9.3	9.0	8.7	7.2
8	4.3	3.0	2.6	1.8	1.0	1.5	3.2	3.6	4.4	6.1	7.1	7.5	7.3	8.6	9.7	10.3
9	77.8	40.0	28.4	23.4	20.0	18.5	18.4	11.0	6.3	3.6	3.3	3.5	3.5	5.6	10.3	19.6

Autumn

39 Degrees North Latitude

WPT	Degrees West Longitude														
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70
1	1.3	0.2	0.4	1.1	1.2	2.1	3.4	4.9	5.0	4.1	4.6	5.0	4.4	4.7	4.3
2	1.2	1.5	2.2	2.5	1.8	2.4	3.6	5.1	4.4	4.3	5.1	5.8	6.1	4.3	3.7
3	3.0	2.5	1.9	1.7	1.7	2.4	3.6	2.9	3.2	4.9	4.4	4.2	3.5	4.5	4.9
4	0.0	5.6	12.6	16.4	22.3	34.4	23.8	25.7	27.7	28.0	28.0	28.6	34.4	36.1	27.8
5	0.7	16.6	37.3	38.6	35.3	21.4	26.5	27.9	29.9	27.9	27.5	26.4	16.0	5.3	1.4
6	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.3	9.3	12.5	14.1	15.1	16.6	20.4	25.5
7	5.1	4.7	5.6	7.4	10.4	15.4	16.6	15.3	12.9	11.7	10.0	8.3	9.3	9.9	7.4
8	2.6	1.8	1.9	1.4	1.1	1.2	1.8	2.4	3.0	2.6	3.3	2.9	4.0	4.5	6.0
9	86.1	66.9	38.1	30.9	26.4	20.6	20.3	12.6	4.7	4.1	3.0	3.9	5.7	10.3	19.1

36 Degrees North Latitude

1	0.8	0.6	0.3	1.0	1.2	2.4	4.1	3.1	2.2	2.9	3.5	2.2	3.0	3.6	0.0
2	0.2	0.2	0.8	0.9	1.0	1.1	1.4	2.3	2.8	3.2	3.1	2.9	2.2	2.5	0.0
3	1.8	1.9	2.1	1.2	0.9	1.5	2.1	1.7	3.0	2.0	2.4	3.9	4.2	4.6	0.0
4	0.1	0.9	7.3	9.2	14.9	29.0	18.2	23.5	23.5	27.9	28.3	30.5	34.6	27.5	0.0
5	0.2	3.2	22.2	37.6	38.7	22.8	26.8	30.2	29.0	23.8	21.2	15.8	4.7	1.1	0.0
6	0.0	0.0	0.0	0.0	0.2	0.3	2.3	10.7	18.6	23.4	25.2	27.2	29.8	33.7	0.0
7	2.6	3.0	3.4	5.1	5.7	12.7	17.2	14.4	13.3	11.8	11.5	11.7	11.0	8.2	0.0
8	1.3	1.4	1.1	1.2	1.0	0.9	1.0	1.1	1.8	1.4	1.4	1.7	1.9	2.2	0.0
9	92.9	88.9	62.8	43.9	36.4	29.2	26.9	13.0	5.8	3.6	3.3	4.2	8.6	16.5	0.0

33 Degrees North Latitude

1	0.0	0.1	0.2	0.6	0.7	1.4	1.2	2.0	1.7	1.5	2.2	2.0	2.8	2.1	0.0
2	0.0	0.2	0.3	0.3	0.4	0.3	0.9	1.0	1.3	1.7	1.3	1.4	0.7	0.9	0.0
3	0.0	1.8	1.0	1.1	1.1	0.7	1.5	1.2	2.1	1.5	1.9	2.3	2.6	2.9	0.0
4	0.0	0.0	1.8	4.1	7.3	18.3	11.2	18.3	22.4	25.6	27.2	29.4	26.2	16.0	0.0
5	0.0	0.2	5.5	14.7	32.9	22.2	28.3	26.5	21.9	17.2	13.2	6.7	1.3	0.2	0.0
6	0.0	0.0	0.0	0.1	0.7	1.3	7.8	25.4	31.6	35.3	37.4	37.9	41.8	46.1	0.0
7	0.0	1.8	2.1	2.2	3.7	12.5	16.5	14.1	11.8	11.1	10.7	12.1	11.5	11.0	0.0
8	0.0	0.4	0.3	0.3	0.6	0.4	0.7	0.3	0.4	0.4	0.7	0.8	0.8	1.0	0.0
9	0.0	95.5	88.8	76.6	52.7	42.9	31.8	11.2	6.7	5.6	5.4	7.3	12.3	19.8	0.0

30 Degrees North Latitude

1	0.0	0.0	0.0	0.1	0.3	0.9	0.7	0.3	1.2	1.1	1.1	1.0	0.9	0.0	0.0
2	0.0	0.0	0.0	0.1	0.2	0.1	0.4	0.8	1.0	1.1	0.8	0.7	0.1	0.0	0.0
3	0.0	0.0	0.7	0.7	1.1	0.3	0.0	1.4	1.0	1.1	0.9	1.4	2.0	0.0	0.0
4	0.0	0.0	0.3	1.3	2.3	4.5	4.5	15.2	21.7	20.9	21.5	20.5	14.9	0.0	0.0
5	0.0	0.0	0.1	1.4	6.3	12.1	27.8	20.0	10.1	6.6	4.7	2.2	0.4	0.0	0.0
6	0.0	0.0	0.0	0.0	0.1	1.0	14.6	39.4	45.3	48.8	50.3	54.1	55.6	0.0	0.0
7	0.0	0.0	0.4	1.2	2.2	6.4	10.8	10.3	9.6	10.1	11.7	9.0	9.7	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.0	0.1	0.0	0.0	0.2	0.0	0.0
9	0.0	0.0	98.5	95.1	87.4	74.4	41.0	12.6	10.0	10.0	9.0	11.0	16.2	0.0	0.0

Autumn

27 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.4	1.0	0.4	0.6	0.3	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.2	0.3	0.2	0.2	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	0.4	0.6	0.8	0.6	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	1.9	12.3	14.6	12.5	10.9	9.9	6.5	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	15.2	12.1	3.5	1.1	0.8	0.1	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	9.6	47.7	54.5	58.4	62.1	63.4	64.5	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	5.6	8.3	10.7	10.4	9.5	8.9	9.2	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	67.3	18.3	15.4	15.9	15.5	16.1	18.9	0.0	0.0	0.0

24 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.4	0.1	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	0.0	0.0	0.0	3.5	2.6	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.4	0.0	0.0	0.0	63.9	65.2	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.0	0.0	7.2	6.8	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.7	0.0	0.0	0.0	24.7	25.2	0.0	0.0	0.0

1969

51 Degrees North Latitude

WPT							Degrees West Longitude									
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	1.9	1.4	1.1	1.9	1.9	2.2	1.1	1.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	15.9	9.3	5.5	5.2	7.4	10.7	10.1	11.8	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1.9	1.4	1.4	1.9	1.6	1.6	3.0	2.2	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	8.8	15.1	20.8	21.4	20.3	24.9	26.6	31.5	32.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	15.3	23.6	24.7	24.4	27.4	25.2	29.9	28.5	26.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	6.6	11.2	17.5	20.3	16.2	14.8	9.9	7.4	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	6.8	6.0	6.0	7.4	9.3	8.8	10.4	10.1	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	42.7	32.1	23.0	17.5	15.9	11.8	9.0	6.6	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

48 Degrees North Latitude

1	2.7	1.9	0.8	2.7	3.6	3.3	3.6	3.8	3.3	3.8	4.4	4.1	4.1	4.1	3.3	4.4
2	15.3	11.0	5.5	5.5	5.8	9.0	8.8	11.8	11.8	12.1	12.3	14.0	14.5	12.3	12.1	12.3
3	1.9	1.4	1.9	1.4	1.4	1.9	3.6	2.5	3.6	3.0	1.9	3.3	1.6	2.2	3.6	1.1
4	4.4	12.9	20.0	26.6	24.7	26.6	25.8	28.8	31.2	30.4	29.3	30.1	31.0	28.2	24.9	22.7
5	5.5	19.2	23.0	22.2	20.0	23.6	26.8	27.4	25.8	24.4	21.6	19.2	18.6	18.9	15.1	7.4
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.3	0.5	1.1	1.1	2.2	3.8	5.8
7	4.7	7.9	14.0	17.5	20.0	14.2	14.2	9.9	7.1	8.2	8.5	4.9	4.7	3.8	5.2	6.3
8	7.4	5.2	5.2	5.8	8.5	8.2	8.5	7.9	9.9	13.2	16.4	15.9	17.3	16.7	20.0	23.6
9	58.1	40.5	29.6	18.4	16.2	13.2	8.8	7.9	6.8	4.7	4.9	7.4	7.1	11.5	12.1	16.4
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

45 Degrees North Latitude

1	2.2	0.8	1.6	1.9	4.9	6.0	4.7	3.0	3.6	3.6	7.4	6.8	4.1	4.1	4.1	3.6
2	9.6	9.9	4.9	2.7	2.7	5.5	9.0	10.7	10.4	10.1	8.8	11.2	11.2	12.1	12.9	11.0
3	2.5	1.1	1.6	3.0	3.0	2.7	1.9	3.3	4.7	5.5	4.4	3.0	3.6	2.7	2.2	3.0
4	1.1	14.2	18.4	21.1	29.3	22.5	23.6	27.1	27.9	29.6	27.7	27.4	26.8	25.2	26.8	22.2
5	4.1	15.3	20.5	28.5	18.6	20.5	29.3	27.1	28.5	26.8	25.5	23.0	22.5	18.1	10.7	4.7
6	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.1	1.9	3.0	2.2	2.7	3.3	4.9	6.6	8.5
7	4.1	5.8	8.8	15.6	18.6	22.2	14.2	10.1	6.6	4.4	4.1	4.7	7.4	7.7	6.0	5.8
8	6.0	4.7	4.7	2.7	4.4	4.4	6.0	6.6	7.1	10.7	15.1	14.8	16.2	17.3	18.1	21.4
9	70.4	48.2	39.5	24.4	18.4	16.2	11.0	11.0	9.3	6.3	4.9	6.3	4.9	7.9	12.6	20.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

42 Degrees North Latitude

1	1.6	1.9	3.3	2.7	2.7	3.8	3.0	3.3	4.7	4.9	6.6	6.8	4.4	4.7	6.6	3.0
2	5.5	5.8	3.3	4.1	2.7	3.6	6.3	6.3	6.6	7.4	7.1	5.8	7.1	9.9	7.4	6.8
3	3.3	1.9	1.6	2.7	1.9	1.4	2.2	4.1	4.4	6.6	4.7	3.0	3.0	3.6	3.8	3.0
4	0.3	11.2	13.7	16.7	27.7	25.5	23.6	26.3	27.4	27.7	25.8	26.3	30.1	30.7	24.9	17.3
5	1.4	16.4	22.5	28.5	21.6	20.8	28.5	28.2	27.9	23.8	24.4	24.4	20.0	12.3	5.8	2.2
6	0.0	0.0	0.0	0.0	0.0	0.3	1.1	3.8	5.2	7.4	6.6	7.1	8.2	9.3	10.4	17.0
7	4.4	5.8	6.6	11.8	17.8	23.6	17.8	11.5	9.6	8.5	9.0	9.0	7.7	6.6	9.0	7.4
8	4.4	4.1	2.7	2.7	2.5	3.0	1.6	3.6	4.1	6.0	10.4	12.6	14.8	14.5	15.9	18.1
9	79.2	52.9	46.3	30.7	23.0	18.1	15.9	12.9	10.1	7.7	5.5	4.9	4.7	8.5	16.2	25.2
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

1969

39 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	1.9	3.0	1.6	1.9	1.4	1.6	2.5	4.7	3.8	4.7	5.8	6.6	5.5	5.8	5.2	0.0
2	3.0	3.0	3.3	2.7	3.0	1.6	4.7	5.5	4.4	6.3	6.3	4.1	4.7	4.7	5.5	0.0
3	2.7	1.9	2.5	3.3	1.9	2.2	2.7	3.0	4.4	4.9	3.0	3.0	4.4	3.0	3.0	0.0
4	0.0	4.9	7.7	11.0	17.5	29.3	23.6	22.5	25.5	26.8	30.4	30.7	35.3	29.9	20.0	0.0
5	0.5	9.6	21.4	30.7	30.4	18.4	25.8	26.8	25.5	23.0	20.3	20.0	14.5	4.7	1.6	0.0
6	0.0	0.0	0.0	0.0	0.0	0.5	2.7	8.2	11.8	14.5	15.6	14.5	12.9	18.1	21.6	0.0
7	7.1	6.8	5.8	7.1	13.4	20.8	19.2	14.5	14.0	12.1	11.0	9.6	9.0	11.8	8.2	0.0
8	3.0	2.2	2.7	2.5	1.1	2.5	0.5	1.6	2.2	1.6	3.6	5.8	7.4	10.1	14.5	0.0
9	81.6	68.5	55.1	40.8	31.2	23.0	18.4	13.2	8.5	6.0	4.1	5.8	6.3	12.1	20.3	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0

36 Degrees North Latitude

1	1.4	1.9	1.4	0.8	1.6	1.1	3.3	3.3	2.7	4.4	4.1	3.0	4.1	4.1	0.0	0.0
2	0.3	1.4	1.6	1.4	1.6	1.4	2.7	2.5	3.0	5.2	6.3	4.7	3.6	1.9	0.0	0.0
3	2.7	1.6	1.9	1.9	0.5	1.9	1.6	1.9	3.6	2.5	1.6	3.3	3.8	4.4	0.0	0.0
4	0.3	1.1	3.3	3.8	9.3	27.4	18.9	17.8	21.1	27.1	31.5	34.2	34.8	24.1	0.0	0.0
5	0.0	1.4	12.6	26.8	32.1	16.4	22.7	28.2	25.8	18.9	14.5	12.6	4.7	0.8	0.0	0.0
6	0.0	0.0	0.0	0.0	0.3	1.1	5.2	18.9	26.0	30.4	29.9	27.4	27.4	32.3	0.0	0.0
7	5.2	2.7	1.6	3.8	5.5	13.2	16.2	12.9	11.0	6.8	7.4	9.0	9.3	9.9	0.0	0.0
8	1.6	1.4	1.1	1.6	1.1	1.9	0.5	1.4	1.9	1.1	0.8	1.4	3.6	6.6	0.0	0.0
9	88.5	88.5	76.4	59.7	47.9	35.6	28.8	13.2	4.9	3.6	3.8	4.4	8.8	15.9	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0

33 Degrees North Latitude

1	0.0	1.9	0.5	0.3	0.3	0.5	2.2	2.5	3.0	2.5	2.5	1.6	1.9	2.5	0.0	0.0
2	0.0	0.0	0.3	0.0	0.5	0.5	1.4	1.6	2.5	4.1	3.6	3.3	1.6	1.4	0.0	0.0
3	0.0	1.9	0.5	0.8	1.1	1.6	0.8	0.8	1.1	1.4	1.1	2.5	3.0	2.7	0.0	0.0
4	0.0	0.0	1.1	1.4	5.2	17.5	9.3	13.4	17.5	24.9	27.4	30.1	26.3	14.2	0.0	0.0
5	0.0	0.3	3.6	9.9	24.7	13.2	22.2	26.3	20.5	14.2	12.1	6.8	1.9	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	1.4	14.2	31.2	38.6	42.2	41.1	38.9	43.6	43.3	0.0	0.0
7	0.0	1.1	1.9	4.1	3.6	12.3	12.6	9.6	8.8	6.0	6.3	7.9	7.9	7.9	0.0	0.0
8	0.0	0.3	0.3	0.8	0.5	0.8	0.8	0.5	1.6	0.5	0.8	1.1	1.4	4.1	0.0	0.0
9	0.0	94.5	91.8	82.7	64.1	52.1	36.4	14.0	6.3	4.1	5.2	7.7	12.3	23.8	0.0	0.0
10	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0

30 Degrees North Latitude

1	0.0	0.0	0.3	0.0	0.5	1.4	0.8	0.3	2.5	2.2	1.6	1.4	1.9	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	1.1	1.9	2.5	1.4	0.5	0.0	0.0	0.0
3	0.0	0.0	0.8	0.5	0.3	0.8	0.3	1.9	1.4	0.8	1.4	1.9	1.4	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	2.2	3.8	3.0	13.2	16.4	19.2	22.2	19.7	14.2	0.0	0.0	0.0
5	0.0	0.0	0.3	0.5	4.7	6.3	21.6	17.0	9.0	6.6	6.0	2.7	0.3	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.8	16.4	45.5	51.8	53.4	52.3	54.2	54.8	0.0	0.0	0.0
7	0.0	0.0	0.8	1.9	1.9	5.8	7.7	7.9	7.4	6.0	5.5	6.8	6.3	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.3	0.5	1.1	0.3	0.5	0.0	0.0	0.0	0.8	0.0	0.0	0.0
9	0.0	0.0	97.8	97.0	90.1	80.5	48.8	13.2	9.9	9.9	8.5	11.8	19.7	0.0	0.0	0.0
10	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0

1969

27 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.8	1.9	1.4	1.6	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.3	1.1	1.4	0.8	0.8	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.5	9.6	10.4	9.6	10.1	11.0	7.4	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	10.7	11.0	3.0	1.4	1.4	1.6	0.3	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	9.0	49.3	62.7	63.8	63.3	64.4	62.2	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	6.3	9.0	7.9	7.9	6.0	5.8	7.1	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	72.9	20.3	14.0	15.1	16.2	14.5	20.5	0.0	0.0	0.0
10	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0

24 Degrees North Latitude

WPT	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.8	0.3	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	0.0	0.0	0.0	3.8	2.7	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.2	0.0	0.0	0.0	64.4	66.6	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	8.2	7.9	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.5	0.0	0.0	0.0	22.5	22.5	0.0	0.0	0.0
10	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0

1970

51 Degrees North Latitude

WPT							Degrees West Longitude									
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	1.4	1.1	2.5	3.6	2.2	1.4	1.4	1.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	14.2	9.6	6.0	6.6	8.2	11.5	9.6	10.7	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1.1	1.4	1.9	2.5	1.9	3.3	1.9	1.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	9.9	16.4	28.2	25.2	24.1	21.6	25.8	25.8	26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	13.4	20.0	15.6	16.2	23.6	27.1	26.3	27.4	27.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	9.9	10.4	16.2	19.2	15.1	13.4	10.1	9.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	8.5	6.3	5.8	6.6	6.8	7.9	11.8	12.6	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	41.6	34.8	23.8	20.3	18.1	13.7	13.2	11.2	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

48 Degrees North Latitude

1	2.7	1.1	1.9	3.6	3.0	2.7	3.3	3.3	3.8	3.3	4.9	3.8	3.8	3.6	3.0	2.2
2	7.9	11.0	5.2	3.8	7.1	7.4	7.7	10.1	13.7	16.2	13.4	12.9	12.3	7.9	9.3	11.0
3	1.6	1.9	1.6	2.2	3.8	3.8	3.3	3.6	3.0	4.1	2.5	2.2	1.6	2.2	1.9	2.5
4	3.8	13.2	18.9	29.9	27.1	24.4	23.0	26.0	26.6	26.8	26.8	26.3	26.8	27.4	26.0	22.2
5	6.6	18.6	22.5	17.0	16.7	23.3	23.8	27.9	24.9	21.4	23.8	26.3	23.3	20.8	14.5	11.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.1	1.6	2.2	2.5	3.3	3.3
7	7.4	7.4	12.3	17.5	20.5	15.9	13.2	10.1	10.1	7.9	6.6	5.8	6.0	5.5	6.6	6.0
8	10.1	6.3	5.5	4.9	5.2	6.0	9.6	9.9	9.0	10.1	11.5	12.6	13.2	18.1	21.9	20.5
9	59.7	40.5	32.1	21.1	16.4	16.4	16.2	9.0	8.8	10.1	10.1	9.0	11.2	12.3	14.2	21.4
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

45 Degrees North Latitude

1	1.1	1.6	1.6	1.9	4.4	4.9	4.4	4.4	5.2	6.0	5.8	4.7	3.3	3.3	3.0	3.8
2	6.6	7.7	6.3	3.8	4.7	6.6	7.1	8.5	11.2	11.2	12.6	11.5	11.2	9.0	11.2	10.7
3	1.6	3.8	2.5	3.3	1.9	2.2	3.3	3.3	4.4	3.8	6.3	4.7	4.1	3.6	2.2	1.9
4	1.9	11.2	15.6	23.3	31.2	24.7	23.6	28.5	27.7	29.6	20.3	23.6	24.1	27.4	29.0	22.7
5	2.7	19.7	26.0	26.3	16.4	17.3	23.0	26.3	26.6	23.6	26.8	24.1	25.2	19.7	11.2	6.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.4	1.9	1.9	2.5	4.1	4.9	5.5
7	4.7	6.0	8.5	15.6	20.3	22.2	17.3	11.2	10.4	9.6	8.8	9.9	6.3	7.1	4.4	4.9
8	8.5	4.1	3.6	1.9	2.2	4.7	5.8	6.8	5.8	7.9	9.9	10.4	12.6	14.5	16.7	20.3
9	72.9	45.8	35.9	23.8	18.9	17.5	15.6	11.0	8.5	6.8	7.7	9.3	10.7	11.2	17.3	24.1
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

42 Degrees North Latitude

1	1.9	1.9	1.1	1.4	2.2	3.3	2.5	4.1	7.4	6.3	6.8	7.1	5.2	3.0	3.6	4.4
2	4.4	3.0	4.9	3.8	5.2	3.8	4.7	4.4	6.3	7.1	7.9	10.1	11.0	8.5	7.4	5.5
3	3.3	3.8	2.5	1.9	1.6	1.6	2.5	2.7	3.8	4.7	5.5	3.0	3.8	4.7	5.8	1.6
4	1.4	8.5	12.6	19.7	28.2	29.3	24.4	28.5	28.8	27.1	18.9	21.6	24.7	30.4	26.0	16.7
5	1.4	19.7	28.8	28.5	21.9	16.2	22.2	27.7	28.2	28.8	28.8	20.8	20.5	14.2	5.5	2.7
6	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	1.1	4.1	5.2	6.3	6.3	8.5	11.0	11.8
7	3.0	7.9	10.7	10.1	13.2	22.2	19.7	14.8	12.9	9.9	10.7	10.7	9.9	8.5	6.0	5.5
8	4.7	3.6	2.2	2.7	1.4	1.6	2.5	2.7	3.6	6.6	9.6	9.9	7.7	9.0	12.1	16.7
9	80.0	51.5	37.3	31.8	26.3	21.9	21.4	14.8	7.9	5.5	6.6	10.4	11.0	13.2	22.7	35.1
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

C-20

1970

39 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	3.3	0.5	0.3	0.8	2.2	2.2	2.7	4.7	4.9	4.7	6.3	6.8	3.8	4.4	3.8	0.0
2	1.4	1.6	3.0	3.6	2.2	2.5	2.7	2.7	5.5	4.9	4.9	7.1	8.2	4.9	4.1	0.0
3	3.3	2.7	1.9	1.6	1.1	1.1	2.7	5.5	3.8	4.9	4.1	5.2	3.3	3.0	4.1	0.0
4	0.5	4.1	8.2	14.0	21.1	32.3	21.4	21.4	23.0	22.7	22.2	23.8	29.6	30.1	20.3	0.0
5	0.5	13.2	28.8	33.2	27.1	16.4	21.1	27.7	27.9	26.0	25.2	19.7	15.3	6.0	2.2	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.2	10.1	14.5	15.3	15.6	15.6	17.5	17.8	0.0
7	5.8	6.3	7.4	7.9	9.6	15.6	23.0	19.2	15.6	14.2	11.2	9.3	8.5	7.9	6.8	0.0
8	3.6	2.7	1.1	1.1	0.8	1.1	1.1	1.6	2.5	3.8	5.2	5.5	4.7	5.8	10.4	0.0
9	81.6	68.8	49.3	37.8	35.9	28.8	24.7	15.1	6.6	4.1	5.5	6.8	11.0	20.3	30.4	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0

36 Degrees North Latitude

1	1.1	0.5	0.3	1.1	0.5	0.5	2.5	4.1	4.1	4.7	4.1	4.1	3.6	5.2	0.0	0.0
2	0.5	0.3	1.9	0.8	0.8	0.8	0.5	1.4	2.2	1.9	3.8	4.1	2.7	2.2	0.0	0.0
3	2.7	0.8	2.5	1.1	1.6	2.5	3.0	1.9	3.8	3.0	3.8	3.6	3.3	3.3	0.0	0.0
4	0.0	1.6	5.2	9.3	13.7	26.8	16.4	19.7	20.5	21.6	25.5	25.2	26.0	20.5	0.0	0.0
5	0.3	2.7	18.6	31.5	31.8	16.2	24.7	28.5	23.3	21.1	15.6	14.5	7.7	2.2	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.3	3.0	14.5	25.2	27.9	28.8	27.7	25.8	27.1	0.0	0.0
7	4.1	2.7	5.8	5.2	4.7	11.8	17.8	14.8	14.2	14.5	12.3	10.4	12.6	9.3	0.0	0.0
8	2.2	1.9	0.8	0.8	0.5	0.5	0.3	0.8	1.4	1.1	1.6	1.9	2.5	3.8	0.0	0.0
9	89.0	89.3	64.9	50.1	46.3	40.5	31.8	14.2	5.2	4.1	4.4	8.5	15.9	26.3	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0

33 Degrees North Latitude

1	0.0	0.3	0.3	0.5	1.1	0.5	1.1	3.0	2.7	2.5	3.0	3.0	5.2	3.8	0.0	0.0
2	0.0	0.5	0.8	0.5	0.0	0.3	0.3	0.5	1.1	1.6	3.0	1.9	1.4	0.8	0.0	0.0
3	0.0	0.8	0.8	0.8	0.3	1.6	1.4	0.5	1.9	1.9	1.9	3.0	0.5	1.1	0.0	0.0
4	0.0	0.3	3.0	5.8	9.0	18.6	9.9	15.1	18.9	22.5	22.2	22.2	19.5	13.4	0.0	0.0
5	0.0	0.5	4.9	15.6	25.8	17.0	25.8	23.3	17.8	13.4	9.6	5.2	2.2	0.5	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.5	11.5	33.4	41.9	43.0	42.2	40.5	37.8	39.5	0.0	0.0
7	0.0	1.9	2.7	2.7	4.9	9.3	14.8	12.3	9.6	9.6	10.1	14.0	15.1	12.1	0.0	0.0
8	0.0	0.8	0.0	0.0	0.5	0.3	0.0	0.0	0.5	0.5	0.3	0.5	1.4	2.2	0.0	0.0
9	0.0	94.8	87.4	74.0	58.4	51.8	35.3	11.8	5.5	4.9	7.7	9.6	17.0	26.6	0.0	0.0
10	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0

30 Degrees North Latitude

1	0.0	0.0	0.0	0.3	0.0	0.0	0.5	0.0	0.5	1.4	2.2	2.7	2.5	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.5	1.1	1.4	0.8	0.8	0.5	0.0	0.0	0.0
3	0.0	0.0	0.5	0.5	0.3	1.1	0.0	0.5	2.2	2.2	1.1	0.8	1.4	0.0	0.0	0.0
4	0.0	0.0	1.4	3.0	3.6	4.1	3.6	14.2	18.1	16.2	17.0	16.7	13.7	0.0	0.0	0.0
5	0.0	0.0	0.3	2.2	7.1	10.7	23.8	14.8	6.8	6.0	4.4	1.9	0.5	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	17.3	49.0	54.8	56.4	56.2	55.9	56.2	0.0	0.0	0.0
7	0.0	0.0	1.4	1.6	4.4	6.6	8.5	9.6	9.6	11.0	9.6	9.0	7.9	0.0	0.0	0.0
8	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0
9	0.0	0.0	96.4	92.1	84.1	77.3	46.0	11.2	6.8	5.5	8.8	11.8	17.0	0.0	0.0	0.0
10	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0

1970

27 Degrees North Latitude

WPT							Degrees West Longitude									
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.5	0.8	1.4	0.8	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.5	0.3	0.0	0.3	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	1.6	0.5	0.5	1.1	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	1.1	12.6	13.2	10.7	11.8	11.0	7.4	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	13.2	7.9	2.7	2.7	0.5	0.3	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	13.7	54.2	60.8	61.9	65.2	66.0	66.3	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	5.8	7.9	9.3	9.0	7.1	5.2	6.3	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	66.0	15.9	12.3	12.9	13.7	15.6	17.5	0.0	0.0	0.0
10	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0

24 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	0.0	0.0	0.0	4.9	2.5	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.5	0.0	0.0	0.0	67.7	71.5	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	6.8	5.5	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.7	0.0	0.0	0.0	19.2	20.0	0.0	0.0	0.0
10	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0

1971

51 Degrees North Latitude

WPT							Degrees West Longitude									
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	1.9	1.1	0.5	1.1	2.7	2.7	3.0	2.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	17.3	11.8	7.7	9.0	8.8	9.9	11.5	14.8	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1.4	0.5	0.8	3.8	2.7	1.9	1.9	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	13.7	21.9	32.1	25.8	27.4	24.1	26.8	27.1	26.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	14.0	21.4	14.0	17.3	22.7	26.8	25.5	24.4	25.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	6.8	7.9	13.2	15.9	12.1	8.5	5.5	3.6	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	8.8	5.5	7.9	6.8	8.5	12.1	14.8	14.5	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	36.2	29.9	23.8	20.3	15.1	14.0	11.0	10.7	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.3	100.3	100.3	100.3	100.3	100.3	100.3

48 Degrees North Latitude

1	1.9	0.8	0.8	1.4	2.2	4.4	3.0	3.6	5.2	5.5	3.8	2.5	4.7	3.8	3.8	3.3
2	11.2	11.2	6.6	7.9	7.7	7.7	11.2	11.2	11.0	11.0	11.8	15.1	14.8	13.2	14.2	15.9
3	2.2	1.4	1.9	2.2	3.8	4.7	4.7	4.7	2.7	3.0	3.6	3.3	1.9	2.7	2.5	2.7
4	6.0	21.4	25.2	32.9	30.4	26.3	26.8	29.3	28.5	28.8	30.7	27.1	26.6	26.6	26.3	21.4
5	7.9	18.4	22.7	16.7	16.2	23.8	24.1	23.3	24.7	23.0	20.8	21.1	19.2	20.0	14.5	10.1
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.5	1.6	1.9	1.4	1.6	2.7	2.7
7	4.9	6.8	11.2	16.2	17.0	12.3	9.9	5.8	6.0	4.7	3.8	6.0	5.8	4.7	3.8	4.4
8	9.6	5.2	6.3	5.2	5.8	5.8	8.8	11.2	13.2	17.3	16.4	16.2	19.2	19.2	22.2	25.5
9	56.2	34.8	25.2	17.5	17.0	15.1	11.5	10.7	8.8	6.3	7.4	6.8	6.6	8.2	9.9	14.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

45 Degrees North Latitude

1	1.9	1.4	2.7	1.9	3.0	3.3	4.7	4.4	6.3	5.5	4.1	4.4	4.1	4.9	4.1	3.8
2	6.3	6.0	3.6	5.5	5.5	7.4	8.5	7.1	8.5	9.0	9.3	12.1	12.9	11.8	11.2	9.9
3	3.3	3.3	3.0	3.0	1.1	2.5	4.7	3.8	3.0	3.6	3.8	3.0	3.0	2.7	4.1	3.3
4	1.9	16.7	23.8	29.3	34.0	25.2	24.4	28.5	30.7	29.6	26.3	26.0	26.0	26.0	26.0	19.7
5	1.9	19.2	24.1	22.7	15.6	20.0	22.7	26.6	24.1	22.7	22.2	22.7	22.2	18.6	11.2	6.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.4	2.5	4.4	4.7	4.4	4.1	5.8	9.0
7	4.9	6.6	8.8	12.6	17.8	18.9	15.6	10.7	10.1	9.9	9.0	6.8	6.6	7.1	3.8	4.9
8	7.1	4.7	4.7	3.0	3.0	3.3	4.4	6.8	7.7	10.7	15.3	14.5	15.6	17.3	21.1	24.7
9	72.6	42.2	29.3	21.9	20.0	19.5	15.1	11.5	8.2	6.6	5.5	5.8	5.2	7.4	12.6	18.6
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

42 Degrees North Latitude

1	1.1	1.6	1.1	1.6	1.9	3.3	3.6	5.2	5.2	4.7	4.9	4.9	4.1	2.7	4.1	4.7
2	3.8	3.3	2.7	4.7	5.2	6.3	5.5	5.5	6.6	6.6	6.3	8.8	8.2	8.2	7.9	5.8
3	3.8	3.0	2.5	1.9	3.8	3.6	2.7	5.8	4.4	3.6	3.8	4.7	3.6	3.0	4.1	1.9
4	0.5	14.0	18.6	22.2	30.4	25.8	23.8	25.2	29.6	31.2	28.8	29.0	28.2	32.3	27.1	17.3
5	0.5	18.1	27.4	28.5	21.1	16.7	24.9	27.7	26.0	24.1	25.8	23.3	19.5	14.5	4.1	3.8
6	0.0	0.0	0.0	0.0	0.0	0.3	0.5	2.5	4.4	7.7	7.4	7.1	7.7	9.3	12.3	16.4
7	6.8	6.3	6.8	8.5	9.9	19.2	15.9	12.3	10.1	10.7	9.3	9.9	7.7	7.9	6.8	4.4
8	3.0	3.8	3.8	2.7	2.5	1.9	3.6	4.9	5.8	6.3	9.6	9.0	13.7	12.9	16.4	20.5
9	80.3	49.9	37.0	29.9	25.2	23.0	19.5	11.0	7.9	5.2	4.1	3.3	7.4	9.0	17.0	25.2
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

1971

39 Degrees North Latitude

WPT	Degrees West Longitude														
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70
1	1.1	0.8	1.1	2.2	3.0	4.1	3.3	4.9	4.9	4.9	4.4	4.9	3.6	5.5	5.8
2	1.4	2.5	1.9	2.7	3.8	4.4	4.7	3.3	5.2	3.8	5.8	6.3	7.1	5.5	4.4
3	2.7	3.3	3.0	3.3	1.9	2.2	3.8	4.4	4.1	4.1	3.8	2.5	5.2	4.1	3.0
4	0.3	7.4	12.9	13.4	20.5	29.3	19.7	22.2	25.8	29.0	29.9	30.1	28.5	29.6	21.4
5	0.0	11.5	26.3	29.0	24.9	17.0	22.5	29.6	25.5	22.5	22.2	22.5	13.7	5.2	0.8
6	0.0	0.0	0.0	0.0	0.0	0.0	0.8	7.7	12.9	14.2	14.2	13.7	16.4	19.5	21.6
7	6.3	4.4	6.0	7.1	9.6	14.0	18.1	12.6	11.0	12.3	12.3	11.2	12.1	9.6	8.5
8	0.8	1.4	2.7	2.2	1.9	1.4	2.2	3.0	3.6	4.9	4.1	3.8	6.3	7.7	11.2
9	87.4	68.8	46.0	40.0	34.2	27.7	24.9	12.3	7.1	4.1	3.3	4.9	7.1	13.4	23.3
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.3

36 Degrees North Latitude

1	0.3	0.0	0.5	1.4	1.1	2.7	4.1	4.7	4.4	4.4	4.4	3.0	3.6	3.6	0.0
2	0.3	0.5	0.5	1.1	1.6	2.2	2.5	2.5	4.1	2.5	3.6	3.8	4.4	3.3	0.0
3	0.8	2.7	4.1	3.0	1.1	1.9	3.6	2.2	2.7	1.9	2.5	2.5	3.8	3.8	0.0
4	0.0	1.4	6.6	8.8	16.2	23.6	14.0	15.9	23.0	25.5	26.0	25.8	26.6	22.5	0.0
5	0.0	1.6	17.0	30.7	26.0	18.9	22.7	31.5	23.3	21.4	17.0	15.9	4.4	1.1	0.0
6	0.0	0.0	0.0	0.0	0.0	0.3	7.4	17.5	24.9	27.1	27.7	27.9	29.6	29.0	0.0
7	1.4	3.0	4.4	6.6	6.0	10.1	13.7	10.7	11.5	12.3	11.0	12.9	13.4	11.8	0.0
8	0.8	1.1	1.4	1.4	1.9	1.4	2.2	1.4	0.8	1.4	3.0	3.0	3.6	4.4	0.0
9	96.4	89.6	65.5	47.1	46.0	38.9	29.9	13.7	5.2	3.6	4.9	5.2	10.7	20.5	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.3

33 Degrees North Latitude

1	0.0	0.0	0.5	1.4	0.5	2.7	2.2	3.0	2.2	1.9	3.0	2.5	2.7	3.3	0.0
2	0.0	0.0	0.0	0.3	0.8	0.8	1.1	1.1	1.4	1.6	1.1	1.9	1.1	0.8	0.0
3	0.0	2.5	3.0	1.4	1.1	1.6	2.7	1.4	1.4	1.4	3.8	2.2	3.6	3.6	0.0
4	0.0	0.0	2.2	4.9	10.1	17.0	9.3	13.2	19.7	22.7	20.5	22.7	20.8	13.7	0.0
5	0.0	0.0	4.1	15.1	24.7	14.0	23.3	23.3	16.4	13.7	11.0	6.0	0.8	0.3	0.0
6	0.0	0.0	0.0	0.0	0.0	1.1	13.4	31.5	39.2	45.2	40.8	40.5	39.7	38.9	0.0
7	0.0	2.2	3.6	3.0	3.6	10.4	15.9	14.0	13.4	9.6	13.2	13.7	14.0	11.0	0.0
8	0.0	0.5	0.5	1.1	1.1	0.5	0.3	0.8	0.8	0.3	1.1	0.8	0.8	1.9	0.0
9	0.0	94.8	86.0	72.9	58.1	51.8	31.8	11.8	5.5	3.6	5.5	9.6	16.4	26.6	0.0
10	100.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.3

30 Degrees North Latitude

1	0.0	0.0	0.0	0.3	1.4	1.9	1.4	1.4	1.1	2.5	1.9	1.4	2.2	0.0	0.0
2	0.0	0.0	0.0	0.0	0.5	0.3	0.5	0.5	1.1	0.8	0.5	0.8	0.0	0.0	0.0
3	0.0	0.0	2.5	1.6	1.1	0.5	0.8	1.1	1.4	0.8	0.3	1.9	1.6	0.0	0.0
4	0.0	0.0	0.0	0.8	2.7	4.7	3.3	11.0	15.6	17.0	15.3	15.9	12.3	0.0	0.0
5	0.0	0.0	0.0	3.0	6.0	7.7	22.2	15.3	8.8	6.0	5.5	2.5	0.5	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.3	18.9	46.6	54.0	55.1	55.9	57.0	55.9	0.0	0.0
7	0.0	0.0	0.5	1.6	1.4	7.9	10.4	11.8	10.4	9.6	10.1	9.3	8.5	0.0	0.0
8	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.3	0.3	0.3	0.5	0.0	0.5	0.0	0.0
9	0.0	0.0	97.0	92.6	86.3	76.7	42.5	12.1	7.4	7.9	9.9	11.2	18.4	0.0	0.0
10	100.3	100.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.3	100.3

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1971

27 Degrees North Latitude

WPT							Degrees West Longitude									
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.1	0.3	0.8	0.0	0.3	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.0	0.3	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.5	0.0	0.8	0.3	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.5	9.0	8.8	7.7	7.4	8.2	5.8	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	8.2	8.2	2.7	1.4	1.6	0.5	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	14.2	58.9	65.5	69.9	71.5	71.8	69.9	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	8.2	9.3	10.1	7.7	7.9	6.8	6.6	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	68.5	13.7	11.0	12.3	10.7	11.5	17.3	0.0	0.0	0.0
10	100.3	100.3	100.3	100.3	100.3	100.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.3	100.3	100.3

24 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	0.0	0.0	0.0	3.6	1.6	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.1	0.0	0.0	0.0	72.6	72.1	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0	0.0	7.9	7.1	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.0	0.0	0.0	0.0	15.6	19.2	0.0	0.0	0.0
10	100.3	100.3	100.3	100.3	100.3	100.3	100.3	1.4	100.3	100.3	100.3	0.0	0.0	100.3	100.3	100.3

1972

51 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	1.1	0.5	0.8	1.4	2.7	2.2	2.2	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	19.4	13.4	10.1	7.7	9.3	11.2	9.6	10.1	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1.6	0.8	0.3	1.4	1.6	1.6	2.7	2.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	11.5	19.9	29.0	23.0	23.8	26.0	27.9	29.5	28.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	13.1	23.8	18.6	21.6	23.0	27.9	28.4	27.9	28.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7.1	11.5	18.3	23.2	17.5	13.4	11.2	9.8	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	10.1	5.7	5.5	6.8	7.1	7.1	7.9	9.8	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	36.1	24.3	17.5	15.0	15.0	10.7	10.1	9.0	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7

48 Degrees North Latitude

1	2.5	1.6	1.1	0.5	3.3	2.2	3.0	4.4	3.8	3.3	2.5	2.7	3.3	1.6	3.0	2.5
2	12.6	14.5	10.9	7.7	7.9	10.7	10.9	11.2	12.0	14.8	14.2	12.6	14.5	14.2	12.6	11.5
3	3.6	1.6	1.9	1.9	2.5	2.5	2.5	1.6	3.0	1.4	1.9	1.4	2.2	2.5	0.5	1.4
4	4.9	18.0	21.9	28.4	22.4	25.4	26.2	30.3	28.4	27.3	30.6	29.8	28.1	29.2	29.2	21.9
5	4.4	16.7	22.4	17.2	21.6	26.8	26.5	27.0	26.8	26.5	25.1	25.4	25.1	24.0	16.4	11.7
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.1	2.5	4.1	6.3
7	6.0	7.7	12.8	21.3	22.4	14.8	13.4	9.0	7.9	9.3	7.1	5.7	5.5	5.2	7.4	9.0
8	9.8	6.6	4.9	4.4	4.1	4.9	4.6	6.8	10.9	9.8	9.6	11.5	10.7	11.7	15.3	18.0
9	56.3	33.3	24.0	18.6	15.8	12.8	12.8	9.6	7.1	7.7	9.0	10.1	9.6	9.0	11.5	17.8
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

45 Degrees North Latitude

1	1.9	2.2	1.6	1.4	3.6	4.6	4.1	3.6	3.3	2.5	4.6	3.6	3.3	2.7	2.5	3.0
2	7.1	10.4	6.6	4.9	4.9	7.1	7.1	9.3	12.8	9.6	9.3	11.5	12.8	13.7	9.6	9.3
3	4.9	3.6	2.7	2.7	2.2	2.2	2.5	3.6	2.5	2.5	1.9	3.8	3.6	3.0	2.7	2.7
4	1.6	15.0	21.3	29.2	33.1	23.8	23.2	25.7	27.0	30.1	28.1	28.1	27.6	27.9	27.6	22.7
5	1.4	15.3	23.5	24.6	15.6	20.2	26.2	29.2	28.7	29.0	27.0	24.0	23.5	20.8	13.4	6.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	1.9	1.1	1.6	3.0	4.4	8.7	13.4
7	4.1	5.7	7.1	10.9	17.8	23.8	18.3	13.9	11.2	8.5	10.1	10.1	8.5	8.2	7.7	5.7
8	7.7	4.4	3.0	3.6	3.0	2.5	4.1	6.0	7.7	9.0	9.6	9.3	10.9	10.7	13.7	16.7
9	71.3	43.4	34.2	22.7	19.9	15.8	14.5	8.5	6.3	7.1	8.2	7.9	6.8	8.7	14.2	20.5
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

42 Degrees North Latitude

1	2.2	0.5	0.3	1.6	2.2	2.5	3.8	3.6	3.6	2.7	3.6	4.4	4.4	3.0	3.0	2.7
2	4.4	5.7	4.1	4.4	3.0	4.9	4.4	6.3	8.7	7.4	5.2	8.5	10.7	11.5	8.2	5.5
3	3.0	3.0	4.1	2.5	2.5	2.2	3.0	4.9	3.3	3.0	4.4	2.2	2.2	1.9	3.6	2.5
4	0.3	12.8	19.1	26.0	34.2	23.2	19.7	21.0	24.6	29.2	26.8	28.1	28.4	33.6	29.5	22.4
5	0.8	16.9	26.0	24.0	19.1	19.9	30.3	32.0	33.3	28.7	27.9	24.0	20.8	13.7	4.9	2.2
6	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.7	3.6	4.4	5.7	6.8	7.7	9.3	15.8	20.2
7	4.6	5.5	6.6	9.6	17.2	26.0	17.5	13.4	12.0	12.6	10.7	10.4	10.7	9.3	9.6	8.5
8	4.9	2.5	3.3	3.6	3.0	3.8	4.1	4.4	4.9	7.7	9.3	8.7	7.9	7.9	11.7	14.5
9	79.8	53.0	36.6	28.4	18.9	17.5	16.9	11.7	6.0	4.4	6.6	6.8	7.4	9.8	13.7	21.6
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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39 Degrees North Latitude

WPT							Degrees West Longitude									
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	1.1	0.3	0.5	1.1	1.9	1.4	1.9	2.5	3.0	3.3	4.6	3.8	2.7	2.5	3.8	0.0
2	1.9	1.1	2.5	3.3	2.5	4.6	4.1	6.6	4.9	5.2	5.2	7.9	8.5	7.7	6.0	0.0
3	3.3	3.3	2.2	2.2	2.7	1.9	1.4	2.2	3.6	3.8	2.5	2.2	2.7	3.3	3.3	0.0
4	0.0	7.7	15.8	20.2	25.1	24.6	16.4	18.6	24.0	28.4	26.0	27.0	30.1	33.3	24.0	0.0
5	0.0	11.5	25.1	27.0	21.9	19.1	28.7	33.6	32.2	27.3	26.2	21.9	14.8	4.9	1.6	0.0
6	0.0	0.0	0.0	0.0	0.0	0.3	1.4	4.9	9.0	10.4	11.7	13.1	16.1	18.9	23.0	0.0
7	4.1	4.6	5.5	7.7	16.1	22.4	22.7	15.8	12.8	13.1	11.2	12.0	12.0	9.8	9.6	0.0
8	3.8	2.5	3.3	3.0	3.0	2.7	2.5	3.6	3.8	4.4	6.6	6.3	5.2	5.5	7.7	0.0
9	85.8	69.1	45.1	35.5	26.8	23.0	21.0	12.3	6.6	4.1	6.0	5.7	7.9	14.2	21.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.7

36 Degrees North Latitude

1	0.5	0.5	0.3	1.1	1.6	2.5	2.7	1.6	2.5	3.3	3.6	3.3	4.6	4.4	0.0	0.0
2	0.8	0.5	0.8	1.1	1.4	1.4	2.5	3.0	3.3	2.7	3.8	5.2	4.1	2.5	0.0	0.0
3	1.6	1.1	2.5	1.9	0.8	1.1	1.4	2.2	1.4	1.9	3.8	2.7	3.0	3.6	0.0	0.0
4	0.0	1.6	10.4	13.9	20.8	23.0	12.6	16.9	21.0	26.5	24.6	25.4	27.9	21.6	0.0	0.0
5	0.0	2.5	17.8	28.4	24.6	16.9	29.2	34.7	30.1	24.6	21.0	17.8	6.0	1.6	0.0	0.0
6	0.0	0.0	0.0	0.0	0.3	0.5	5.5	13.4	18.9	20.5	21.3	21.9	29.0	31.7	0.0	0.0
7	2.5	2.2	4.4	4.9	6.0	16.9	20.2	15.8	14.5	15.3	14.8	13.4	14.5	0.0	0.0	0.0
8	1.6	1.6	1.4	1.9	2.2	1.9	1.6	1.4	3.3	2.7	1.9	2.5	3.0	3.3	0.0	0.0
9	92.9	89.9	62.6	46.7	42.3	35.8	24.3	10.9	5.2	3.3	4.6	6.6	9.0	16.9	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.7	99.7

33 Degrees North Latitude

1	0.0	0.3	0.3	0.5	1.4	1.4	1.6	1.4	1.6	1.1	3.0	2.7	2.7	3.3	0.0	0.0
2	0.0	0.3	0.5	0.8	1.1	0.5	1.9	1.4	1.9	2.5	3.0	2.7	0.8	1.1	0.0	0.0
3	0.0	1.1	1.1	1.1	0.8	0.5	1.6	0.8	1.1	1.6	1.9	2.5	3.8	1.9	0.0	0.0
4	0.0	0.3	5.2	8.5	11.7	17.2	8.5	15.3	20.2	21.6	21.9	23.2	20.2	13.7	0.0	0.0
5	0.0	0.0	6.0	10.4	23.5	16.1	27.3	27.9	20.5	18.0	14.8	8.2	1.9	0.8	0.0	0.0
6	0.0	0.0	0.0	0.0	0.3	1.6	12.8	28.1	36.1	38.8	39.1	39.1	45.1	46.4	0.0	0.0
7	0.0	1.6	2.5	2.5	4.9	14.2	15.6	15.6	12.3	10.1	10.4	12.6	12.3	11.5	0.0	0.0
8	0.0	0.3	0.3	0.3	1.1	0.8	0.5	0.5	1.1	1.4	0.3	1.1	0.5	1.4	0.0	0.0
9	0.0	96.2	84.2	76.0	55.2	47.5	30.1	9.0	5.2	4.9	5.7	7.9	12.6	19.9	0.0	0.0
10	99.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.7	99.7

30 Degrees North Latitude

1	0.0	0.0	0.0	0.5	0.5	1.1	0.5	1.1	0.8	1.4	2.2	1.4	2.2	0.0	0.0	0.0
2	0.0	0.0	0.0	0.3	0.0	0.3	0.8	1.4	1.6	1.6	1.9	1.1	0.0	0.0	0.0	0.0
3	0.0	0.0	0.8	0.5	0.8	0.5	0.3	0.5	0.8	3.8	1.1	1.1	1.4	0.0	0.0	0.0
4	0.0	0.0	0.3	2.7	4.1	4.4	4.4	13.7	18.9	16.4	16.7	15.3	10.4	0.0	0.0	0.0
5	0.0	0.0	0.0	1.4	3.8	8.2	25.1	16.9	7.1	7.7	4.9	3.3	0.8	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.5	16.9	48.1	56.3	54.6	57.9	58.7	57.4	0.0	0.0	0.0
7	0.0	0.0	0.8	1.1	2.7	10.1	12.0	9.3	9.3	8.7	9.6	10.4	12.6	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.3	0.0	0.3	0.3	0.0	0.0	0.0
9	0.0	0.0	98.1	93.4	88.0	74.6	39.9	9.0	4.9	5.5	5.7	8.5	15.0	0.0	0.0	0.0
10	99.7	99.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.7	99.7	99.7

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27 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	1.6	2.7	1.1	0.5	0.3	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.2	0.5	0.3	1.4	0.8	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.8	10.4	10.7	9.3	9.3	7.4	5.5	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	12.6	8.7	2.7	1.9	1.4	0.5	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	13.1	54.9	64.5	69.7	71.3	70.5	70.5	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	9.3	11.7	11.2	8.7	9.0	10.4	8.5	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	63.7	12.8	6.6	6.6	7.1	8.7	13.7	0.0	0.0	0.0
10	99.7	99.7	99.7	99.7	99.7	99.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.7	99.7	99.7

24 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	0.0	0.0	0.0	3.3	1.9	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.3	0.0	0.0	0.0	77.3	77.9	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0	0.0	0.0	6.3	4.4	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.6	0.0	0.0	0.0	12.3	15.8	0.0	0.0	0.0
10	99.7	99.7	99.7	99.7	99.7	99.7	99.7	0.0	99.7	99.7	99.7	0.0	0.0	99.7	99.7	99.7

1973

51 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	1.4	0.8	1.4	1.6	2.2	2.2	2.2	1.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	17.5	15.6	9.3	8.2	10.7	11.2	11.2	12.9	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1.4	2.7	2.7	3.6	2.5	2.2	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	21.4	25.2	31.2	25.8	24.7	25.8	24.9	28.2	28.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	15.3	21.4	19.2	19.7	20.5	26.3	28.5	23.6	25.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	6.6	8.8	14.0	16.7	13.2	11.5	9.6	8.8	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	8.2	6.0	8.5	9.9	11.8	11.0	12.3	14.8	15.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	28.2	19.5	13.7	14.5	14.5	9.9	9.6	8.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

48 Degrees North Latitude

1	2.2	1.6	2.2	3.0	3.8	4.1	3.8	4.7	5.5	3.6	4.9	4.4	3.6	3.6	3.0	3.0
2	13.2	13.7	11.2	6.0	6.3	7.7	9.0	8.5	10.4	12.1	12.6	13.7	11.2	14.0	14.2	14.5
3	1.9	1.9	2.5	3.3	3.3	3.3	3.8	3.0	2.5	3.3	2.7	1.9	2.7	1.9	1.9	1.6
4	9.9	25.5	23.0	28.8	27.9	24.9	27.4	27.7	26.3	31.0	26.8	24.4	24.9	26.8	27.1	23.0
5	4.9	18.4	24.7	19.5	17.5	22.7	23.6	22.7	26.8	22.5	20.5	21.9	22.7	17.0	11.2	10.1
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	1.6	1.6	3.3	3.3	3.3	4.7
7	5.5	6.8	11.2	17.5	20.8	16.4	12.9	12.3	9.3	7.1	8.5	8.2	7.4	8.2	9.9	8.5
8	8.8	6.0	6.3	7.9	7.1	7.9	7.9	13.2	14.8	15.6	17.5	18.6	18.9	18.9	21.9	21.9
9	53.7	26.0	18.9	14.0	13.2	12.9	11.5	7.9	4.1	4.4	4.7	5.2	5.2	6.3	7.4	12.6
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

45 Degrees North Latitude

1	2.2	1.9	1.6	1.1	2.7	4.4	4.1	5.5	4.9	4.1	5.8	6.0	3.6	4.4	4.7	3.6
2	7.7	7.9	7.1	5.5	5.2	6.3	6.0	6.3	9.9	11.8	11.8	11.0	14.5	12.3	12.6	11.0
3	3.0	1.6	1.9	3.3	2.7	2.5	2.7	3.3	4.1	4.1	1.9	1.1	4.7	3.3	2.2	2.5
4	3.3	26.0	24.4	25.5	33.4	31.5	26.0	27.1	26.3	27.9	29.3	23.8	24.4	26.3	26.6	20.8
5	3.3	16.4	26.3	31.8	20.0	18.1	21.4	24.7	28.8	25.5	22.7	24.7	20.8	15.9	10.4	4.9
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.5	4.1	5.5	4.7	5.5	6.3	9.6
7	4.7	7.1	6.3	9.0	15.9	19.2	20.3	15.1	7.9	7.1	8.2	8.2	8.5	8.8	8.2	9.9
8	10.4	5.5	4.4	4.9	3.3	3.8	6.6	10.4	12.3	13.4	12.1	15.9	14.2	16.7	18.9	21.6
9	65.5	33.4	27.9	18.9	16.7	14.2	12.9	7.7	4.4	3.6	4.1	3.8	4.7	6.8	10.1	16.2
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

42 Degrees North Latitude

1	1.9	1.1	0.8	1.4	2.2	3.6	4.4	4.4	5.2	4.9	6.0	6.6	4.7	4.4	4.1	4.4
2	3.3	4.1	3.8	6.0	5.5	4.9	4.7	6.3	8.5	9.0	9.9	14.0	13.7	9.9	8.2	8.2
3	4.4	3.0	3.3	3.3	1.1	2.2	2.7	3.3	4.1	3.3	1.1	1.1	3.0	3.0	4.9	3.3
4	0.8	23.8	21.4	17.5	27.7	32.3	26.8	28.5	25.2	23.8	25.5	23.6	23.6	31.0	25.8	17.8
5	0.5	15.6	25.8	34.8	29.3	18.6	23.6	24.4	29.9	26.0	23.8	22.5	20.8	13.4	5.5	1.6
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.3	6.6	8.2	8.2	9.6	9.6	14.0	15.1
7	6.3	6.6	5.5	11.2	12.9	18.4	16.7	14.5	10.7	10.4	11.0	10.4	7.7	8.5	8.8	7.1
8	7.4	3.6	3.8	2.7	3.0	2.2	5.8	8.5	10.1	12.3	12.1	11.0	12.1	12.3	16.2	18.1
9	75.3	42.2	35.6	23.0	18.4	17.8	15.3	9.6	3.0	3.6	2.5	2.7	4.9	7.9	12.6	24.4
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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39 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	1.1	0.8	1.1	2.5	3.0	1.6	3.6	3.8	4.4	4.9	7.1	5.5	4.4	4.1	3.8	0.0
2	1.4	2.2	3.6	4.7	3.8	4.7	6.6	7.7	5.8	5.5	5.5	8.8	9.9	7.7	5.5	0.0
3	3.0	1.6	1.9	1.6	1.4	2.2	2.7	3.3	3.3	4.7	3.3	2.5	2.2	3.8	4.7	0.0
4	0.3	14.5	15.9	13.2	20.8	33.4	22.7	24.4	23.8	24.1	24.9	24.4	28.5	30.1	22.5	0.0
5	0.0	12.1	25.8	35.9	34.0	20.5	20.0	23.3	28.2	22.5	21.9	21.4	15.1	6.6	2.5	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.5	4.4	9.6	13.7	15.9	18.4	15.6	19.2	21.1	0.0
7	5.5	6.0	6.6	7.7	9.9	16.4	17.3	16.4	13.2	12.1	11.0	9.3	11.5	8.5	8.2	0.0
8	2.7	1.9	2.7	3.0	2.7	2.2	4.4	6.3	8.5	9.9	8.5	6.0	6.0	7.7	10.4	0.0
9	86.0	60.8	42.5	31.5	24.4	18.9	22.2	10.4	3.3	2.7	1.9	3.8	6.8	12.3	21.4	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0

36 Degrees North Latitude

1	0.8	0.5	1.1	1.6	1.6	2.2	4.7	4.7	4.7	4.1	4.9	4.9	3.6	4.1	0.0	0.0
2	0.0	0.3	0.8	1.9	0.8	2.7	4.1	3.3	3.8	4.1	4.9	5.5	5.2	2.7	0.0	0.0
3	2.2	2.5	1.9	1.9	1.4	1.9	1.9	3.0	3.6	5.5	4.4	3.3	3.8	5.2	0.0	0.0
4	0.0	3.0	12.1	8.5	13.7	24.9	17.8	24.1	21.4	24.1	20.5	20.5	23.8	19.7	0.0	0.0
5	0.0	2.5	18.4	31.0	32.3	21.1	20.3	23.6	22.5	16.7	17.3	14.0	7.9	1.6	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.3	3.3	13.2	21.9	26.6	28.8	27.7	28.5	31.8	0.0	0.0
7	3.6	2.5	2.2	4.7	5.8	11.5	16.2	12.6	12.1	11.8	11.5	15.1	14.5	14.5	0.0	0.0
8	1.1	1.1	1.4	1.1	1.4	2.2	2.7	4.1	5.5	4.7	4.1	4.7	3.0	3.8	0.0	0.0
9	92.3	87.7	62.2	49.3	43.0	33.2	29.0	11.5	4.7	2.5	3.6	4.4	9.6	16.4	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0

33 Degrees North Latitude

1	0.0	0.5	0.0	0.3	0.5	1.6	2.2	2.7	3.3	3.8	3.8	2.7	3.3	4.7	0.0	0.0
2	0.0	0.0	0.3	0.5	0.0	1.1	1.6	1.6	1.1	1.1	3.0	3.3	0.8	0.8	0.0	0.0
3	0.0	1.9	1.6	3.3	0.5	2.2	3.8	3.0	3.3	4.1	2.5	3.6	3.6	3.0	0.0	0.0
4	0.0	0.0	7.7	7.1	9.9	17.3	14.2	18.9	20.8	20.0	19.5	20.8	19.2	10.1	0.0	0.0
5	0.0	0.3	4.9	13.7	29.6	18.4	21.1	18.9	15.1	13.4	11.8	7.7	3.0	0.5	0.0	0.0
6	0.0	0.0	0.0	0.3	0.0	0.5	11.5	32.3	40.0	41.6	43.0	42.2	43.8	48.2	0.0	0.0
7	0.0	1.4	3.0	3.8	3.3	9.3	11.0	10.1	10.1	9.0	9.9	12.6	12.1	9.6	0.0	0.0
8	0.0	0.3	0.8	0.3	0.8	0.8	1.6	2.7	2.2	2.7	1.4	1.1	1.4	2.2	0.0	0.0
9	0.0	95.6	81.6	70.7	55.3	48.8	32.9	9.6	4.1	4.1	5.2	6.0	12.9	20.8	0.0	0.0
10	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0

30 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.3	0.3	1.4	1.1	1.1	2.5	2.2	1.4	1.6	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.3	0.8	0.3	1.4	1.6	0.8	0.0	0.0	0.0
3	0.0	0.0	0.8	1.6	0.5	0.5	1.6	1.9	3.0	1.6	1.6	1.9	1.9	0.0	0.0	0.0
4	0.0	0.0	0.3	6.3	4.7	7.9	7.1	12.6	16.2	16.4	16.4	16.4	13.4	0.0	0.0	0.0
5	0.0	0.0	0.0	1.6	7.1	12.1	21.4	14.2	5.2	4.7	4.4	3.3	1.1	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	19.2	49.0	55.9	58.6	57.8	55.9	59.5	0.0	0.0	0.0
7	0.0	0.0	2.2	3.0	2.7	8.2	11.2	11.0	11.5	9.9	9.3	9.6	9.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.5	0.5	0.8	0.8	0.5	0.3	0.0	0.0	0.0
9	0.0	0.0	96.7	87.4	84.4	70.7	37.3	9.3	5.8	5.2	6.0	9.3	12.3	0.0	0.0	0.0
10	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0

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27 Degrees North Latitude

WPT							Degrees West Longitude									
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.1	1.1	1.1	1.1	0.3	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.3	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.1	1.1	0.5	0.5	1.1	1.1	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	3.0	9.6	11.5	11.5	9.3	9.6	6.3	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	13.7	8.2	1.6	0.3	1.1	0.5	0.3	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	15.6	60.5	66.6	71.2	71.8	70.4	72.6	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	6.8	9.6	11.2	7.1	7.4	6.6	5.8	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	59.7	9.6	6.8	7.7	8.8	11.0	13.7	0.0	0.0	0.0
10	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0

24 Degrees North Latitude

WPT	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.5	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	0.0	0.0	0.0	3.8	2.5	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.7	0.0	0.0	0.0	77.0	77.3	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	0.0	0.0	0.0	5.8	4.7	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.6	0.0	0.0	0.0	12.6	14.5	0.0	0.0	0.0
10	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0

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51 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.5	0.5	1.6	2.7	2.5	1.4	1.6	1.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	13.2	10.1	4.7	5.2	8.5	11.0	10.4	12.9	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1.4	1.4	3.0	1.4	0.8	2.2	2.7	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	23.8	26.0	35.3	34.8	31.2	26.6	28.8	27.9	29.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	17.5	24.7	16.4	16.2	20.3	25.2	27.7	26.6	24.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	6.6	7.7	14.5	17.0	13.7	11.8	10.4	7.7	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	6.0	4.9	5.8	6.6	7.1	7.9	8.2	12.3	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	31.0	24.7	18.6	16.2	15.9	14.0	10.1	9.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

48 Degrees North Latitude

1	1.6	0.8	0.5	1.9	4.1	3.3	3.6	2.5	3.8	5.2	4.7	3.6	4.9	3.8	3.6	3.6
2	7.7	8.5	6.3	3.6	5.5	9.3	12.6	12.9	12.3	11.5	14.0	15.9	13.4	14.5	14.5	13.7
3	1.6	1.9	1.4	2.7	4.7	4.9	3.6	4.1	3.0	2.2	3.8	3.8	2.5	2.5	3.0	2.5
4	15.9	29.0	31.8	38.1	29.3	26.0	27.4	27.4	26.0	25.8	25.8	28.5	29.0	32.3	29.9	22.7
5	10.1	22.2	26.6	16.2	15.1	22.2	25.2	26.0	28.2	26.6	25.2	22.5	24.9	20.0	15.9	15.1
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.8	0.8	1.1	1.9	3.0	3.3
7	6.3	4.7	7.4	17.0	18.4	14.0	10.4	10.4	8.8	6.0	3.6	4.1	4.9	2.2	2.7	3.0
8	7.9	6.0	4.4	5.2	6.3	5.8	6.3	11.0	12.1	16.4	15.9	14.2	13.2	14.2	16.2	19.2
9	48.8	26.8	21.6	15.3	16.7	14.5	11.0	5.8	5.8	5.8	6.3	6.6	6.0	8.5	11.2	17.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

45 Degrees North Latitude

1	2.2	1.1	0.5	0.8	1.6	5.5	6.0	4.9	4.9	4.4	3.8	6.4	6.8	4.7	4.1	3.0
2	4.9	6.3	4.7	4.1	4.4	6.6	8.5	10.1	9.0	8.8	11.0	10.4	11.2	12.6	11.2	9.9
3	2.2	3.6	1.9	1.9	4.9	4.4	4.4	4.4	3.0	3.6	4.9	5.5	2.5	3.8	4.1	3.3
4	5.2	31.2	30.4	34.8	40.8	30.1	26.6	25.5	27.1	25.8	25.5	25.5	28.8	31.8	33.2	24.9
5	3.6	20.3	29.3	28.2	16.7	17.8	21.1	25.8	29.6	30.1	27.4	26.0	23.3	18.6	15.3	11.2
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	2.2	3.6	3.6	3.6	4.4	6.8	8.8
7	5.8	4.1	4.7	9.3	12.3	17.0	14.2	11.2	8.5	5.5	4.9	5.2	6.6	6.6	3.3	4.9
8	6.0	3.0	3.6	1.9	2.5	3.0	4.9	7.9	10.4	12.3	13.4	13.4	11.0	11.0	11.2	14.5
9	70.1	30.4	24.9	18.9	16.7	15.6	14.2	9.9	6.6	7.4	5.5	3.8	6.3	6.6	10.7	19.5
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

42 Degrees North Latitude

1	1.1	0.8	0.0	0.5	3.0	4.9	3.0	5.5	5.5	5.8	6.0	6.8	4.9	3.6	5.2	4.4
2	4.4	4.4	3.8	2.7	3.8	3.0	5.2	6.6	9.0	7.9	7.9	9.6	11.0	8.5	7.9	6.6
3	2.5	1.4	2.2	2.2	3.6	2.7	3.6	2.2	2.5	3.6	5.2	3.8	3.0	3.3	2.2	3.3
4	1.1	26.6	24.9	25.2	33.4	34.0	26.8	25.8	24.9	24.7	26.6	25.8	29.3	35.6	31.0	20.8
5	1.6	18.9	31.8	33.4	22.5	18.1	23.0	30.7	29.3	29.0	29.0	25.8	23.0	16.7	8.8	4.4
6	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.6	3.3	5.8	7.1	8.2	7.9	9.6	12.6	14.0
7	4.4	5.8	4.9	8.8	11.2	11.5	14.5	12.6	12.3	8.5	6.0	7.1	6.3	7.7	7.7	7.7
8	3.3	3.3	2.2	1.4	1.6	2.2	2.7	4.4	5.8	9.9	9.0	9.0	8.2	8.2	9.3	14.0
9	81.6	38.9	30.1	25.8	20.8	23.6	20.5	10.7	7.4	4.9	3.0	3.8	6.3	6.8	15.3	24.9
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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39 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.5	0.5	0.3	1.6	1.4	2.2	4.9	5.2	7.7	4.4	4.4	3.8	5.2	5.8	5.2	0.0
2	1.6	2.5	1.1	2.5	2.2	3.3	3.6	5.2	6.3	6.0	6.0	6.8	6.0	4.7	4.1	0.0
3	2.5	2.2	1.4	1.6	2.5	1.4	3.8	2.7	2.5	4.4	3.8	4.4	3.0	3.0	5.2	0.0
4	0.0	14.2	18.6	15.3	20.0	36.4	19.2	19.5	22.5	26.6	24.7	26.8	32.6	33.4	21.6	0.0
5	0.5	9.0	25.5	31.5	33.7	17.0	25.5	31.2	28.8	25.5	25.2	24.7	17.5	7.4	3.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.8	5.2	9.9	13.4	13.2	14.0	13.2	18.1	21.4	0.0
7	4.7	5.8	5.2	9.0	7.1	12.3	16.2	15.3	13.4	11.2	13.2	12.3	11.5	10.4	9.6	0.0
8	2.7	2.5	2.2	1.6	1.9	1.4	1.9	3.3	3.8	3.3	4.7	3.8	4.9	5.2	7.9	0.0
9	87.4	63.3	45.8	36.7	31.2	26.0	24.1	12.3	5.2	5.2	4.9	3.3	6.0	12.1	21.9	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0

36 Degrees North Latitude

1	0.8	0.0	0.5	0.3	0.8	1.4	2.7	4.9	3.8	4.4	4.1	4.7	4.4	4.4	0.0	0.0
2	0.5	1.1	0.5	1.1	1.4	2.5	2.5	1.6	3.0	2.7	4.4	3.8	2.5	1.6	0.0	0.0
3	1.1	0.8	1.9	1.6	1.1	2.7	3.3	3.3	1.9	2.5	4.1	3.0	3.0	3.8	0.0	0.0
4	0.0	2.7	10.4	6.8	13.2	28.8	14.5	16.7	21.1	27.7	24.7	28.8	29.0	23.0	0.0	0.0
5	0.3	1.4	11.8	29.0	34.5	20.8	27.1	30.1	27.7	21.1	21.1	15.6	9.0	3.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	4.4	15.9	21.9	24.9	25.5	25.2	25.8	31.5	0.0	0.0
7	4.9	3.6	3.8	3.8	4.1	8.5	14.0	14.0	12.9	11.2	11.2	11.2	15.3	17.0	0.0	0.0
8	1.1	1.6	1.1	1.4	1.4	1.1	1.1	0.8	2.2	1.4	1.6	1.9	3.0	2.2	0.0	0.0
9	91.2	88.8	69.9	55.9	43.6	34.2	30.4	12.6	5.5	4.1	3.3	5.8	7.9	13.4	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0

33 Degrees North Latitude

1	0.0	0.3	0.5	0.8	0.8	2.5	2.5	1.9	2.7	2.7	3.3	2.2	1.9	2.5	0.0	0.0
2	0.0	0.5	0.5	0.0	1.1	1.6	1.6	0.5	0.3	0.8	1.6	1.1	0.8	0.3	0.0	0.0
3	0.0	0.5	0.5	1.4	1.1	1.1	2.2	2.5	1.6	2.2	1.6	2.7	2.7	3.6	0.0	0.0
4	0.0	0.5	8.2	5.2	8.2	17.0	8.8	15.3	20.5	23.3	22.7	23.8	22.5	12.3	0.0	0.0
5	0.0	0.0	3.0	9.9	23.3	18.4	27.7	24.9	21.6	16.7	13.7	7.9	2.7	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.8	11.5	32.1	36.4	39.2	38.6	38.4	41.6	45.5	0.0	0.0
7	0.0	2.5	3.0	4.1	2.2	9.3	12.3	12.3	12.1	10.1	14.2	16.4	18.1	19.2	0.0	0.0
8	0.0	0.8	0.5	0.8	1.1	0.5	0.5	0.3	0.5	1.4	0.5	0.3	0.3	1.1	0.0	0.0
9	0.0	94.8	83.6	77.8	62.2	48.8	32.9	10.1	4.1	3.6	3.6	7.1	9.3	15.6	0.0	0.0
10	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0

30 Degrees North Latitude

1	0.0	0.0	0.3	0.3	1.1	1.6	1.1	0.5	0.8	1.4	1.4	1.1	1.1	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.5	0.5	1.1	0.0	0.0	0.3	0.8	0.8	0.3	0.0	0.0	0.0
3	0.0	0.0	0.8	1.4	0.3	0.0	0.3	0.5	2.2	1.9	0.8	1.1	1.4	0.0	0.0	0.0
4	0.0	0.0	0.8	3.0	1.9	4.7	3.8	14.0	17.8	15.9	18.1	18.4	13.4	0.0	0.0	0.0
5	0.0	0.0	0.3	1.4	5.2	7.9	23.3	18.4	8.2	7.9	7.1	2.5	0.8	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.3	1.4	18.4	47.4	52.6	53.4	53.7	57.5	60.0	0.0	0.0	0.0
7	0.0	0.0	0.8	1.4	3.3	5.8	10.7	10.7	14.0	15.1	13.4	12.3	12.6	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
9	0.0	0.0	97.0	92.6	87.4	77.8	41.4	8.5	4.4	4.1	4.7	6.3	10.1	0.0	0.0	0.0
10	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0

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27 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	1.6	0.8	0.5	0.5	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	1.6	0.0	0.3	0.8	1.1	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	1.9	10.4	9.3	9.0	9.3	9.3	5.2	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	13.2	7.7	2.5	1.6	1.6	0.5	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	15.1	54.5	63.6	68.2	70.4	70.7	74.5	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	9.3	14.0	16.2	12.6	10.1	10.4	7.9	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	60.0	12.9	6.6	6.8	7.4	7.4	10.7	0.0	0.0	0.0
10	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0

24 Degrees North Latitude

WPT	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	0.0	0.0	0.0	2.5	1.9	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.9	0.0	0.0	0.0	79.5	78.9	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	0.0	0.0	0.0	6.3	5.8	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.2	0.0	0.0	0.0	11.5	13.4	0.0	0.0	0.0
10	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.8	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0

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51 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.5	0.5	0.3	1.6	2.2	3.0	3.3	3.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	16.2	14.0	11.0	6.0	8.5	9.3	9.9	12.6	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.8	1.1	1.6	1.6	1.4	0.5	2.2	3.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	24.4	28.2	34.0	28.2	24.7	22.7	25.2	26.3	23.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	13.7	18.9	14.5	17.8	22.7	24.9	24.7	21.1	25.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	5.5	5.8	10.1	12.1	11.5	12.1	11.8	10.4	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	9.3	6.0	7.7	9.9	9.3	9.9	8.5	10.7	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	29.6	25.5	20.8	22.7	19.7	17.3	14.5	12.9	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.3	100.3	100.3	100.3	100.3	100.3	100.3

48 Degrees North Latitude

1	1.6	1.1	0.5	1.4	2.5	3.6	4.1	4.7	6.3	4.4	2.7	3.8	4.1	3.3	2.7	1.1
2	9.3	11.2	10.4	8.2	8.8	7.1	11.0	11.0	11.8	13.2	15.9	16.4	18.1	15.6	14.8	14.8
3	3.3	1.6	2.2	3.3	1.4	2.2	3.0	3.6	2.7	3.0	4.1	4.1	3.0	1.9	1.6	1.6
4	13.4	27.1	26.8	34.8	29.6	27.1	23.8	23.8	23.0	28.2	26.3	25.2	29.6	30.4	26.6	20.8
5	5.8	14.2	20.8	14.0	19.2	21.6	23.0	25.2	28.2	25.2	24.7	24.4	18.1	18.6	12.6	8.5
6	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.5	1.4	1.9	2.2	2.2	3.0	4.7	5.5
7	6.8	7.4	11.5	10.7	11.8	12.9	12.9	10.4	7.1	5.8	5.2	6.6	6.3	5.5	6.6	7.1
8	9.9	7.4	5.2	7.1	7.7	7.7	6.6	9.6	10.4	9.9	12.1	12.3	12.9	14.5	18.9	23.8
9	49.9	29.9	22.5	20.5	19.2	17.5	15.6	11.5	9.9	9.0	7.1	4.9	5.8	7.1	11.5	16.7
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

45 Degrees North Latitude

1	2.2	0.8	0.3	0.5	2.5	3.8	3.8	4.1	4.4	4.4	5.2	4.7	4.4	4.4	4.4	3.8
2	4.7	6.3	5.5	6.3	5.5	5.8	7.1	12.1	10.4	10.4	11.5	14.8	16.4	12.6	13.2	10.4
3	2.7	3.3	3.0	3.8	2.5	3.0	3.8	4.7	3.0	3.8	3.6	4.4	3.3	3.6	1.6	2.5
4	6.3	26.8	27.7	29.6	34.5	29.3	25.2	23.8	25.2	28.5	26.8	27.1	29.0	27.4	28.5	23.8
5	2.2	13.7	20.3	21.6	15.1	16.4	20.5	26.6	31.0	26.3	25.8	21.9	20.3	17.8	10.7	6.6
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.2	3.8	4.9	4.4	4.1	5.5	6.3	8.8
7	8.5	6.6	7.7	8.8	13.4	17.5	14.8	9.0	6.6	7.1	5.5	8.5	7.7	8.8	8.2	5.5
8	8.8	4.9	6.3	4.4	5.8	5.2	6.3	5.2	8.5	10.7	11.8	10.7	10.7	14.5	16.7	20.0
9	64.7	37.5	29.3	24.9	20.8	18.9	18.4	13.7	8.8	4.9	4.9	3.6	4.1	5.5	10.4	18.6
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

42 Degrees North Latitude

1	0.8	0.3	0.0	1.6	1.4	2.5	2.7	5.5	4.4	2.7	3.6	5.5	4.1	4.4	3.8	4.4
2	3.8	3.0	3.3	4.4	4.1	4.4	6.8	5.8	6.0	7.9	9.6	11.5	12.6	12.3	11.2	7.9
3	3.0	3.3	4.4	2.5	2.5	2.7	2.7	3.3	3.6	4.9	4.1	3.8	3.0	4.1	3.3	2.7
4	0.5	22.7	22.7	23.8	32.6	33.4	24.9	21.9	24.7	27.1	26.6	25.2	30.1	32.1	27.9	19.2
5	0.3	19.7	25.5	25.8	20.5	13.2	21.6	29.0	31.0	28.2	27.1	22.7	19.2	12.6	4.9	2.2
6	0.0	0.0	0.0	0.0	0.3	0.3	0.8	2.7	6.0	7.4	8.2	9.3	6.8	6.8	11.5	13.2
7	6.6	4.4	5.8	9.0	11.8	17.5	12.9	14.0	10.1	9.3	7.9	8.8	9.9	7.1	7.4	6.6
8	4.9	3.8	2.7	1.9	4.4	4.4	4.7	5.2	6.6	7.7	7.7	8.2	7.4	11.2	13.4	15.9
9	80.0	42.7	35.6	31.0	22.5	21.6	22.7	12.6	7.7	4.7	5.2	4.9	6.8	9.3	16.4	27.9
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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39 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.5	0.5	1.4	2.5	1.4	3.3	3.6	3.8	5.5	3.3	4.4	5.8	5.8	5.5	6.0	0.0
2	1.4	1.6	2.2	3.0	3.8	4.1	4.4	5.2	4.4	5.5	7.1	7.9	6.8	7.4	4.9	0.0
3	1.9	3.6	2.7	1.9	2.5	1.9	2.5	1.4	3.3	4.7	3.6	3.6	3.6	5.5	4.7	0.0
4	0.3	11.0	15.9	16.7	20.8	39.2	19.2	22.7	22.5	23.6	24.4	24.1	29.9	31.2	20.8	0.0
5	0.5	12.1	25.5	32.3	31.5	11.8	22.5	26.3	27.4	29.0	25.5	22.7	15.3	5.8	1.4	0.0
6	0.0	0.0	0.0	0.0	0.3	1.1	1.9	7.7	11.8	14.8	15.3	15.1	12.1	14.2	18.6	0.0
7	5.2	5.2	4.7	5.8	5.8	12.6	18.4	15.3	12.9	11.0	12.1	10.4	11.5	10.7	9.0	0.0
8	3.3	1.9	2.2	2.2	3.3	3.3	3.0	3.0	5.2	4.7	4.7	4.7	5.8	8.5	9.9	0.0
9	86.8	64.1	45.5	35.6	30.7	22.7	24.7	14.5	7.1	3.6	3.0	5.8	9.3	11.2	24.7	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.3

36 Degrees North Latitude

1	0.0	1.1	1.1	2.2	2.5	3.6	4.7	3.6	1.4	3.8	5.8	4.4	4.7	5.8	0.0	0.0
2	0.3	0.3	0.5	1.4	0.5	1.6	3.3	3.8	3.6	4.9	5.5	4.9	3.8	3.0	0.0	0.0
3	1.1	1.4	2.2	1.9	1.9	3.0	1.4	0.8	4.1	2.2	2.5	3.0	4.1	4.4	0.0	0.0
4	0.3	1.4	10.4	8.8	16.7	32.6	13.2	19.5	19.7	22.5	20.5	23.8	31.0	22.2	0.0	0.0
5	0.3	1.4	17.3	30.1	32.6	12.6	22.7	26.0	27.7	24.4	21.1	15.9	6.3	2.7	0.0	0.0
6	0.0	0.0	0.0	0.0	0.3	1.1	6.0	19.5	24.9	27.4	27.9	26.3	24.9	28.2	0.0	0.0
7	2.7	3.8	1.6	3.0	2.7	11.2	15.3	11.8	11.0	9.9	11.2	13.2	12.1	11.0	0.0	0.0
8	1.9	2.5	1.9	1.9	2.5	1.1	1.9	2.2	1.9	1.6	1.6	2.5	2.5	4.7	0.0	0.0
9	93.4	88.2	64.9	50.7	40.3	33.2	31.5	12.9	5.8	3.3	3.8	6.0	10.7	18.1	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.3	100.3

33 Degrees North Latitude

1	0.0	0.0	0.5	0.8	2.2	2.7	3.0	2.2	2.7	3.6	3.3	3.3	5.8	3.6	0.0	0.0
2	0.0	0.3	0.0	0.5	0.5	1.4	2.5	2.5	2.2	3.6	2.5	2.2	0.3	1.4	0.0	0.0
3	0.0	0.3	0.8	1.9	1.4	1.6	1.4	1.9	3.0	1.1	2.2	3.0	2.5	1.9	0.0	0.0
4	0.0	0.0	5.8	7.1	7.9	21.4	9.6	15.1	17.3	20.0	20.3	21.9	21.1	14.2	0.0	0.0
5	0.0	0.0	3.3	14.0	28.2	10.7	24.4	24.4	20.5	16.7	12.9	6.8	3.6	0.3	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	1.1	9.6	32.6	38.9	38.1	40.5	41.1	40.8	45.2	0.0	0.0
7	0.0	2.5	1.9	2.5	1.9	11.5	12.1	12.3	11.5	12.3	11.2	13.4	12.6	13.2	0.0	0.0
8	0.0	1.4	0.8	0.8	1.1	0.5	1.4	1.1	0.3	0.0	0.8	0.8	1.1	1.9	0.0	0.0
9	0.0	95.6	86.8	72.3	56.7	49.0	36.2	7.9	3.6	4.7	6.3	7.4	12.3	18.4	0.0	0.0
10	100.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.3	100.3

30 Degrees North Latitude

1	0.0	0.0	0.3	0.3	0.8	2.2	2.5	1.1	1.6	2.5	2.5	3.0	1.1	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.5	1.6	0.8	1.6	1.6	1.6	0.3	0.3	0.0	0.0	0.0
3	0.0	0.0	0.3	0.3	1.4	0.8	0.3	0.8	2.5	1.9	1.8	1.6	1.4	0.0	0.0	0.0
4	0.0	0.0	0.5	3.6	2.2	4.1	3.3	14.5	15.3	15.6	15.1	15.9	12.6	0.0	0.0	0.0
5	0.0	0.0	0.0	0.8	4.9	5.2	23.0	16.2	10.4	7.1	6.0	3.0	0.5	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.3	14.8	45.5	54.2	55.6	58.1	62.7	64.4	0.0	0.0	0.0
7	0.0	0.0	0.8	1.6	2.2	4.7	12.3	11.5	9.3	10.4	11.0	8.8	9.6	0.0	0.0	0.0
8	0.0	0.0	0.3	0.5	0.3	0.5	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	97.8	92.9	88.2	81.6	41.6	9.3	4.9	5.2	4.4	4.7	10.1	0.0	0.0	0.0
10	100.3	100.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.3	100.3	100.3

C-36

1975

27 Degrees North Latitude

WPT							Degrees West Longitude									
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.1	2.2	2.5	0.8	0.5	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.5	0.3	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	1.1	0.5	0.5	0.3	0.8	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	1.1	11.8	11.5	10.4	9.0	8.8	6.3	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	13.7	10.1	3.0	1.6	0.8	0.5	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	9.6	53.7	64.1	68.8	72.3	74.0	76.2	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	6.0	8.5	9.6	7.9	8.2	7.4	6.8	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	67.7	14.2	8.5	8.2	7.7	8.2	9.9	0.0	0.0	0.0
10	100.3	100.3	100.3	100.3	100.3	100.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.3	100.3	100.3

24 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	0.0	0.0	0.0	3.6	1.6	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.9	0.0	0.0	0.0	80.3	81.6	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.0	4.4	4.4	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.2	0.0	0.0	0.0	11.5	12.1	0.0	0.0	0.0
10	100.3	100.3	100.3	100.3	100.3	100.3	100.3	0.5	100.3	100.3	100.3	0.0	0.0	100.3	100.3	100.3

1976

51 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	3.0	1.9	1.9	3.0	1.6	1.6	4.1	4.4	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	16.1	10.4	7.4	5.2	6.3	9.6	10.7	10.7	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1.4	1.4	0.3	0.5	3.0	4.4	4.9	5.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	18.3	25.1	40.4	34.4	23.8	20.5	23.2	30.9	31.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	18.6	30.3	19.4	14.5	21.0	30.6	29.5	26.5	25.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7.4	8.2	11.5	18.9	18.9	12.3	9.6	8.2	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	6.0	4.1	6.0	6.8	8.2	9.0	10.7	8.7	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	29.2	18.6	13.1	16.7	17.2	12.0	7.4	5.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7

48 Degrees North Latitude

1	3.8	1.9	0.8	1.1	2.2	3.6	5.7	7.1	4.1	4.6	4.1	4.4	4.4	3.8	3.3	3.0
2	7.9	7.4	4.1	4.4	5.2	6.8	8.2	10.4	9.8	8.5	12.0	14.5	15.0	15.6	15.0	16.9
3	3.0	0.8	0.8	1.9	2.5	4.1	3.3	1.9	5.2	4.6	2.2	2.7	3.6	3.3	3.8	3.8
4	9.8	24.9	32.8	46.4	32.8	24.6	25.4	30.9	32.0	34.4	33.3	32.0	29.5	29.2	27.0	20.5
5	7.4	30.6	32.2	16.7	17.2	26.2	30.3	26.5	29.2	27.3	23.2	19.9	16.7	16.1	11.7	7.4
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	1.4	1.4	1.9	1.6	3.3	5.5
7	6.8	7.1	9.3	11.5	18.9	16.1	12.6	10.7	7.9	6.0	5.7	5.5	5.7	6.0	6.6	4.9
8	5.5	3.6	3.3	4.1	5.5	6.6	7.1	6.6	6.3	10.1	13.1	14.8	16.9	16.7	18.6	23.5
9	55.7	23.8	16.7	13.9	15.8	12.0	7.4	6.0	5.2	3.6	4.9	4.9	6.3	7.7	10.7	14.5
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

45 Degrees North Latitude

1	2.2	0.5	1.4	0.8	2.2	4.6	5.2	4.4	3.8	5.5	6.0	4.1	5.2	3.6	3.3	5.2
2	3.6	4.1	3.0	1.9	2.2	3.3	5.2	7.4	6.0	6.8	9.6	12.3	12.0	13.9	15.0	12.8
3	2.5	1.9	0.5	2.7	3.3	3.3	2.7	1.4	4.9	4.9	4.4	4.6	3.3	4.6	5.2	3.6
4	4.1	24.9	28.4	40.4	42.3	29.8	26.0	29.8	31.7	31.7	34.2	28.4	30.1	29.5	27.3	21.0
5	3.8	31.1	35.8	23.2	18.9	20.5	27.0	28.1	33.1	30.6	22.4	20.5	20.2	16.7	10.9	6.3
6	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.8	1.9	2.5	3.6	4.4	4.4	6.0	7.7
7	7.7	7.4	8.2	10.7	12.8	20.2	17.2	14.2	9.6	7.9	6.8	8.2	7.9	8.2	6.0	7.1
8	5.5	3.0	1.6	2.2	2.7	3.3	3.6	5.5	4.9	7.7	10.9	14.5	13.7	13.7	15.3	20.2
9	70.8	27.0	21.0	18.0	15.6	15.0	12.8	9.0	5.2	3.0	3.3	3.8	3.3	5.5	10.9	16.1
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

42 Degrees North Latitude

1	2.5	1.4	0.5	0.8	2.2	3.0	5.2	4.6	3.8	4.4	4.1	5.2	4.6	4.6	5.2	6.3
2	1.6	1.9	1.9	1.4	1.9	3.0	4.4	5.2	4.9	4.4	6.6	7.7	9.6	11.5	9.0	6.8
3	3.3	1.9	2.7	3.0	2.2	2.5	1.6	2.5	3.6	7.1	6.0	4.6	4.1	6.0	5.2	4.4
4	0.0	21.3	23.5	28.4	39.3	28.7	25.1	28.4	28.4	31.7	32.5	33.3	32.5	32.2	30.1	21.9
5	1.1	30.1	36.9	32.8	20.8	21.3	27.3	29.8	33.9	31.7	26.8	23.0	19.9	13.9	7.1	4.1
6	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.5	2.7	4.1	6.3	6.6	7.7	8.7	11.2	14.8
7	8.5	7.7	7.4	8.2	13.4	22.4	15.8	16.4	12.8	8.7	9.0	8.7	9.8	8.7	9.0	8.5
8	1.9	0.8	0.5	0.8	0.8	1.6	1.9	3.0	4.1	5.5	6.8	8.2	8.7	7.7	10.1	13.9
9	81.1	35.0	26.5	24.6	19.4	17.2	18.6	9.6	5.7	2.5	1.9	2.7	3.0	6.6	13.1	19.4
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

1976

39 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.5	0.3	0.3	1.4	1.6	1.9	2.2	3.0	4.9	4.6	5.2	6.6	6.3	6.3	6.8	0.0
2	0.3	0.5	0.8	0.8	1.1	1.9	3.0	3.6	3.8	4.6	5.7	7.9	8.5	5.5	3.8	0.0
3	1.9	2.2	2.2	1.4	1.4	1.4	2.7	2.7	3.3	4.4	6.3	4.6	5.5	4.6	3.8	0.0
4	0.0	12.3	17.5	18.3	29.5	31.1	19.4	27.0	27.3	30.3	30.9	35.0	34.4	35.8	29.2	0.0
5	0.3	18.0	37.2	38.8	29.2	21.9	29.2	30.3	31.4	30.3	25.4	19.1	16.4	8.5	3.8	0.0
6	0.0	0.0	0.0	0.0	0.0	0.3	1.4	6.3	10.4	10.9	10.1	12.6	11.5	16.7	20.2	0.0
7	5.5	4.9	4.9	7.1	9.3	16.4	16.7	14.2	12.0	10.7	10.9	10.1	10.9	8.5	6.6	0.0
8	1.4	0.0	0.5	0.0	0.8	0.8	0.8	1.4	3.3	2.7	3.3	1.4	3.0	4.4	7.4	0.0
9	90.2	61.7	36.6	32.2	27.0	24.3	24.6	11.5	3.6	1.4	2.2	2.7	3.6	9.8	18.3	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.7

36 Degrees North Latitude

1	0.3	0.5	0.5	0.8	0.8	1.1	2.2	3.3	3.3	4.1	3.0	4.1	5.2	5.2	0.0	0.0
2	0.0	0.0	1.1	0.8	0.0	0.0	0.8	1.4	2.5	2.2	4.1	4.1	2.7	2.2	0.0	0.0
3	0.8	1.1	0.5	0.8	0.8	1.4	3.0	1.4	2.2	1.6	3.0	4.1	4.1	2.7	0.0	0.0
4	0.0	3.0	10.4	10.1	17.5	31.7	15.6	24.0	24.6	27.3	29.5	32.2	33.1	29.5	0.0	0.0
5	0.0	2.7	21.3	35.2	34.4	22.7	30.1	32.0	31.7	27.6	23.0	17.5	11.7	3.8	0.0	0.0
6	0.0	0.0	0.0	0.0	0.3	0.5	5.7	15.6	20.5	23.8	23.2	20.5	24.6	30.3	0.0	0.0
7	2.5	2.5	2.2	4.9	4.9	11.2	12.6	12.0	11.7	10.4	10.1	12.0	10.4	10.4	0.0	0.0
8	0.8	0.3	0.5	0.0	0.5	0.8	0.0	0.8	1.9	1.9	2.2	1.4	1.6	3.0	0.0	0.0
9	95.6	89.9	63.4	47.3	40.7	30.6	30.1	9.6	1.6	1.1	1.9	4.1	6.6	12.8	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.7	99.7

33 Degrees North Latitude

1	0.0	0.3	0.0	0.0	0.5	0.3	0.8	1.9	2.5	2.7	2.2	3.0	3.0	3.0	0.0	0.0
2	0.0	0.0	0.3	0.5	0.0	0.0	0.0	0.3	1.1	1.4	2.7	2.5	1.6	0.0	0.0	0.0
3	0.0	0.5	0.3	1.1	0.5	0.8	2.2	1.4	1.9	1.1	3.6	3.3	3.3	3.6	0.0	0.0
4	0.0	0.0	6.0	5.2	7.7	20.8	9.8	18.6	20.8	22.4	25.1	26.8	25.4	17.5	0.0	0.0
5	0.0	0.0	4.4	13.4	30.3	17.2	31.7	29.0	24.0	21.0	16.9	12.3	6.0	0.8	0.0	0.0
6	0.0	0.0	0.0	0.0	0.3	1.4	9.8	27.9	33.1	34.2	33.6	32.8	39.3	45.9	0.0	0.0
7	0.0	1.9	3.0	1.9	3.0	10.9	10.1	12.0	13.1	13.1	11.7	14.8	11.7	10.1	0.0	0.0
8	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.3	0.8	1.4	0.8	0.5	0.8	1.9	0.0	0.0
9	0.0	97.0	85.8	77.9	57.7	48.6	35.5	8.7	2.7	2.7	3.3	4.1	8.7	17.2	0.0	0.0
10	99.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.7	99.7

30 Degrees North Latitude

1	0.0	0.0	0.0	0.3	0.3	0.3	1.1	1.6	1.6	0.8	2.7	2.2	2.2	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.8	0.5	0.3	0.3	0.0	0.0	0.0
3	0.0	0.0	0.0	0.8	0.0	0.3	0.0	1.4	0.5	1.6	2.5	2.7	1.4	0.0	0.0	0.0
4	0.0	0.0	0.5	3.0	2.2	3.3	3.3	15.3	21.6	20.8	19.9	19.9	15.8	0.0	0.0	0.0
5	0.0	0.0	0.0	1.4	3.8	9.6	27.9	21.0	12.0	7.9	6.0	4.9	1.6	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.5	18.0	45.6	51.1	52.7	50.8	52.2	57.4	0.0	0.0	0.0
7	0.0	0.0	0.3	0.8	1.1	8.2	8.7	9.0	9.3	12.0	12.8	10.7	11.2	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	99.2	93.7	92.6	77.9	41.0	6.0	3.3	3.3	4.6	7.1	10.1	0.0	0.0	0.0
10	99.7	99.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.7	99.7	99.7

1976

27 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.8	0.8	0.8	0.8	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	0.5	1.9	1.4	1.4	1.4	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.3	13.1	15.6	13.4	12.3	11.2	6.6	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	15.6	13.9	5.5	4.1	2.5	1.1	0.3	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	17.2	53.6	60.9	64.5	65.0	67.5	70.2	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	7.4	7.1	10.4	9.3	10.1	9.6	10.7	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	58.7	11.5	6.3	5.7	7.7	8.2	10.1	0.0	0.0	0.0
10	99.7	99.7	99.7	99.7	99.7	99.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.7	99.7	99.7

24 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	0.0	0.0	0.0	2.5	1.9	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	0.0	0.0	0.0	0.8	0.3	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.0	0.0	0.0	0.0	77.0	79.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	7.7	6.8	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.1	0.0	0.0	0.0	10.4	12.0	0.0	0.0	0.0
10	99.7	99.7	99.7	99.7	99.7	99.7	99.7	0.0	99.7	99.7	99.7	0.0	0.0	99.7	99.7	99.7

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1977

51 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.8	0.3	0.5	1.9	3.0	2.7	3.3	2.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	17.0	10.7	6.8	6.6	6.8	12.6	10.4	12.9	16.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1.4	1.1	2.2	2.5	3.3	1.9	1.6	3.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	20.8	27.9	38.9	31.8	27.1	27.7	28.2	28.5	24.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	18.9	27.9	23.3	20.3	21.4	22.5	22.5	20.5	20.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	3.0	4.7	7.1	12.9	12.9	11.5	9.0	8.8	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	7.9	7.4	7.1	8.5	11.5	10.1	13.4	15.3	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	30.1	20.0	14.0	15.6	14.0	11.0	11.5	8.2	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

48 Degrees North Latitude

1	2.7	1.1	1.1	1.6	3.3	3.8	2.5	2.7	1.6	3.3	3.6	2.7	1.9	1.6	1.9	2.5
2	12.9	8.8	6.0	5.2	6.3	8.2	9.9	12.6	15.1	15.6	15.6	17.0	17.5	18.9	18.6	17.0
3	2.7	3.0	2.5	3.0	5.2	3.0	3.8	3.8	5.2	4.4	3.6	2.5	2.7	2.5	1.6	0.5
4	14.0	29.6	31.8	39.2	31.2	26.8	28.8	25.2	23.3	23.0	23.8	23.6	26.8	25.8	23.6	20.8
5	12.3	23.3	23.8	21.4	18.6	23.0	23.8	21.6	25.2	23.3	24.7	23.3	20.8	18.4	13.7	7.1
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.1	1.1	1.4	1.9	2.2	3.0	4.4
7	1.6	2.2	7.9	9.6	11.8	12.1	10.7	11.8	8.5	7.4	5.5	4.9	4.1	3.3	1.9	2.5
8	7.7	5.2	4.9	4.7	5.2	8.2	10.7	13.4	14.2	15.6	17.3	20.0	19.5	23.6	29.0	34.5
9	46.0	26.8	21.9	15.3	18.4	14.8	9.9	8.8	6.0	6.3	4.9	4.7	4.7	3.8	6.6	10.7
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

45 Degrees North Latitude

1	2.5	1.6	0.5	1.1	2.7	3.3	5.5	3.6	2.7	4.1	5.5	4.1	1.9	3.6	3.0	2.7
2	7.9	6.0	3.3	3.0	3.3	4.9	8.5	12.1	10.7	12.3	12.6	15.1	16.2	16.7	16.7	16.7
3	4.7	3.6	5.2	3.8	4.4	4.7	3.8	3.3	5.2	4.1	4.7	3.8	5.2	2.2	2.7	3.8
4	6.8	28.5	28.8	34.5	36.7	26.3	26.0	24.1	21.4	24.4	23.0	26.0	22.2	26.6	23.0	18.4
5	6.0	21.6	26.0	21.6	17.8	18.9	23.0	23.6	27.4	24.1	23.6	21.9	21.6	17.3	12.9	7.1
6	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	3.3	2.7	2.5	2.7	3.6	3.8	4.7	7.1
7	3.0	3.8	6.3	9.9	13.4	19.5	15.1	15.3	11.2	11.0	9.3	8.2	6.6	6.0	4.9	4.4
8	5.5	3.6	2.2	1.6	2.7	5.8	5.2	8.5	9.9	11.8	16.4	16.2	19.7	20.0	23.8	27.1
9	63.6	31.2	27.7	24.4	18.9	16.7	12.6	9.0	8.2	5.5	2.5	1.9	3.0	3.8	8.2	12.6
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

42 Degrees North Latitude

1	2.2	0.8	2.2	2.5	1.9	4.1	6.0	5.8	5.2	5.5	6.3	5.2	4.9	4.7	4.4	5.8
2	4.9	2.7	1.6	3.3	2.5	3.8	4.9	7.1	7.1	8.2	9.6	11.5	12.6	12.3	12.9	10.7
3	4.9	5.8	3.3	2.5	2.5	3.3	3.6	2.2	3.3	3.6	4.7	5.8	4.9	4.1	5.8	3.6
4	1.9	23.3	22.7	26.6	34.2	25.2	20.8	21.9	24.1	25.2	24.7	25.8	26.3	29.9	25.2	18.9
5	1.6	21.9	25.2	22.7	18.4	17.8	23.6	25.8	27.7	28.5	25.8	23.3	19.7	15.6	9.6	3.6
6	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.5	3.8	5.2	6.3	5.2	7.7	7.1	8.8	11.8
7	4.9	5.5	7.4	11.0	15.3	20.8	21.1	20.3	15.6	12.1	10.4	9.3	8.5	6.8	5.8	5.2
8	3.3	1.9	1.9	0.8	2.2	4.7	4.7	3.8	6.8	9.6	11.0	11.5	13.2	14.5	16.4	22.5
9	76.2	38.1	35.6	30.7	23.0	20.3	15.1	10.7	6.3	2.2	1.4	2.5	2.2	4.9	11.2	18.1
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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1977

39 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.8	0.8	0.0	0.5	1.4	2.5	4.4	4.9	4.9	5.5	6.6	6.0	6.6	7.4	7.1	0.0
2	1.1	1.6	1.9	0.8	1.4	2.5	2.7	6.0	6.6	5.2	6.6	6.8	7.9	6.0	5.2	0.0
3	4.7	3.0	2.7	2.5	2.2	3.3	3.0	2.2	3.3	5.8	4.9	5.5	5.5	5.5	6.0	0.0
4	0.5	12.3	19.7	19.5	28.2	28.8	17.3	18.1	20.3	23.8	26.3	29.6	30.4	28.5	20.3	0.0
5	0.0	13.2	26.3	25.5	18.6	12.3	21.9	27.1	28.5	26.3	24.9	21.6	17.3	9.0	4.1	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	1.6	5.8	10.4	13.2	14.0	13.4	13.7	14.8	18.1	0.0
7	3.0	5.8	4.9	7.1	11.8	21.4	21.9	20.0	17.8	12.1	9.3	9.0	6.6	8.2	6.8	0.0
8	2.2	0.3	0.8	0.8	1.6	3.0	3.6	3.8	3.6	4.1	5.5	5.2	6.8	9.6	11.2	0.0
9	87.7	63.0	43.6	43.3	34.8	26.3	23.6	12.1	4.7	4.1	1.9	2.7	5.2	11.0	21.1	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0

36 Degrees North Latitude

1	0.8	0.5	0.0	1.1	1.4	1.9	4.4	3.6	4.7	4.9	4.1	3.6	5.5	6.6	0.0	0.0
2	0.5	0.5	0.3	0.5	1.1	1.6	2.7	3.8	4.7	3.8	4.1	3.0	3.3	3.0	0.0	0.0
3	2.2	1.6	2.2	1.9	1.1	2.7	1.9	3.0	2.7	3.3	3.8	7.7	4.9	5.2	0.0	0.0
4	0.3	3.3	14.0	9.9	18.1	27.9	12.3	14.0	17.0	21.4	27.9	26.8	31.2	22.7	0.0	0.0
5	0.0	1.1	15.1	27.1	24.1	11.5	20.3	29.3	27.1	25.2	22.5	18.9	11.0	3.6	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.8	3.0	17.3	21.4	23.3	22.7	24.1	24.4	25.8	0.0	0.0
7	1.6	2.2	2.5	3.8	3.6	11.5	18.6	17.3	14.8	11.8	9.6	9.6	7.9	7.7	0.0	0.0
8	0.0	0.3	0.3	0.5	0.8	1.6	1.4	1.1	1.4	1.6	1.1	1.4	1.9	4.4	0.0	0.0
9	94.5	90.4	65.8	55.1	49.9	40.3	35.3	10.7	6.3	4.7	4.1	4.9	9.9	21.1	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0

33 Degrees North Latitude

1	0.0	0.0	0.3	0.5	0.8	1.4	3.3	3.6	4.4	3.6	3.6	3.6	4.1	3.8	0.0	0.0
2	0.0	0.0	0.3	0.5	0.8	1.1	1.6	2.5	2.2	1.9	1.9	2.2	1.4	1.1	0.0	0.0
3	0.0	0.5	1.4	0.8	0.5	2.5	1.4	3.3	2.7	1.9	3.8	5.2	2.7	4.1	0.0	0.0
4	0.0	0.0	5.5	6.8	10.4	16.4	8.2	12.3	17.0	22.5	24.9	24.4	24.9	16.7	0.0	0.0
5	0.0	0.0	2.2	10.7	21.9	12.9	21.6	26.3	23.0	21.4	18.1	13.7	5.5	1.6	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.5	8.5	31.2	35.3	34.0	31.5	34.5	38.6	35.9	0.0	0.0
7	0.0	1.6	2.2	3.0	1.9	8.8	13.4	11.2	9.0	9.6	10.4	8.5	9.6	10.7	0.0	0.0
8	0.0	0.3	0.0	0.3	0.3	1.1	0.5	0.0	0.0	0.3	0.3	0.3	1.4	1.9	0.0	0.0
9	0.0	97.5	88.2	77.3	63.3	55.3	41.4	9.6	6.3	4.9	5.5	7.7	11.8	24.1	0.0	0.0
10	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0

30 Degrees North Latitude

1	0.0	0.0	0.0	0.3	0.0	0.8	1.1	0.5	2.2	3.0	1.6	1.4	2.2	0.0	0.0	0.0
2	0.0	0.0	0.3	0.5	0.5	0.8	1.4	1.9	1.4	1.1	0.8	0.5	0.0	0.0	0.0	0.0
3	0.0	0.0	0.5	0.5	1.1	1.1	0.3	2.2	1.4	0.8	1.4	1.4	1.9	0.0	0.0	0.0
4	0.0	0.0	0.5	4.1	3.3	3.3	2.5	8.5	16.2	17.5	21.1	19.5	16.7	0.0	0.0	0.0
5	0.0	0.0	0.0	1.1	3.0	6.0	21.4	20.5	12.3	8.5	9.6	8.2	1.4	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	12.9	46.6	53.4	54.2	52.6	52.6	55.6	0.0	0.0	0.0
7	0.0	0.0	1.6	0.8	0.8	6.6	7.7	8.5	7.7	9.6	8.2	9.9	9.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
9	0.0	0.0	97.0	92.6	91.2	81.4	52.9	11.2	5.5	5.2	4.7	6.6	12.9	0.0	0.0	0.0
10	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0

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1977

27 Degrees North Latitude

WPT							Degrees West Longitude									
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.6	1.1	0.5	0.8	1.1	0.5	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.4	0.3	0.3	0.3	0.8	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.3	7.1	11.0	11.0	10.7	10.7	9.9	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	11.0	14.2	4.1	3.0	1.9	2.7	1.1	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	9.6	55.3	66.8	68.8	70.4	71.0	70.7	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	5.8	6.0	6.8	7.7	8.5	8.5	7.9	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	72.1	14.8	8.5	8.5	7.4	5.8	9.0	0.0	0.0	0.0
10	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0

24 Degrees North Latitude

WPT							Degrees West Longitude									
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.5	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	5.2	3.8	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.6	0.0	0.0	0.0	77.0	75.1	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	8.2	8.2	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.1	0.0	0.0	0.0	9.0	12.1	0.0	0.0	0.0
10	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.3	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0

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51 Degrees North Latitude

WPT							Degrees West Longitude									
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.8	1.6	1.6	2.7	3.6	3.0	4.4	4.9	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	17.8	10.4	6.6	5.8	8.8	11.2	11.0	11.5	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1.6	1.4	3.8	3.0	2.7	3.3	4.4	4.4	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	22.5	25.5	29.6	28.2	24.4	24.7	24.1	26.0	24.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	14.8	20.5	18.4	18.4	24.7	23.8	24.4	24.7	27.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	4.9	8.5	16.2	17.8	12.3	9.0	10.7	7.7	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	5.8	7.9	7.7	7.9	9.6	11.0	11.0	12.9	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	31.8	24.1	16.2	16.2	14.0	14.0	10.1	7.9	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

48 Degrees North Latitude

1	1.4	1.1	1.4	3.3	4.4	3.6	4.7	5.2	4.7	6.3	4.1	3.0	3.8	4.9	4.9	3.8
2	15.1	11.0	7.1	5.8	7.7	9.3	8.8	9.6	14.5	15.1	15.9	14.8	17.0	18.6	18.6	20.8
3	2.5	2.7	3.8	1.9	2.7	4.4	4.4	5.5	3.8	2.5	3.3	4.9	4.9	4.4	2.5	1.6
4	16.2	27.7	29.9	31.0	28.8	24.1	27.4	24.7	26.8	26.8	28.2	27.9	27.9	27.1	23.0	20.0
5	7.9	21.9	21.6	19.7	21.4	24.1	26.6	26.8	27.9	27.7	24.4	24.1	20.0	16.2	15.1	9.9
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	1.1	1.1	1.1	1.4	2.7	4.4
7	5.2	6.0	10.4	18.6	16.4	11.0	9.0	7.4	6.8	4.4	4.4	4.4	5.2	3.3	2.7	3.6
8	6.8	4.9	4.4	4.9	5.8	9.0	8.8	9.0	8.8	10.7	11.5	13.4	14.2	19.2	24.9	27.4
9	44.9	24.7	21.4	14.8	12.9	14.5	10.4	11.8	6.3	6.0	7.1	6.3	5.8	4.9	5.5	8.5
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

45 Degrees North Latitude

1	0.8	0.3	0.5	1.4	3.0	4.7	6.6	6.0	4.7	6.3	5.2	6.8	5.5	3.6	5.2	3.3
2	9.9	8.8	6.6	6.8	3.8	5.2	6.3	9.0	10.1	13.4	13.2	14.0	13.4	13.2	14.0	14.2
3	3.6	2.7	2.7	2.2	4.1	4.9	4.1	5.8	5.8	3.8	5.5	5.5	5.5	6.0	3.3	2.7
4	7.4	27.4	29.6	31.2	30.4	23.8	25.8	25.8	27.1	30.7	26.8	25.5	28.2	27.7	27.1	21.4
5	4.1	20.8	24.7	26.6	21.1	24.9	29.9	29.0	31.0	25.5	22.2	20.8	19.7	16.4	12.6	7.7
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.9	2.7	3.0	3.0	3.0	4.9	5.5	8.5
7	4.7	4.7	6.3	12.3	19.7	16.4	10.4	9.9	8.5	5.5	7.7	6.3	6.0	6.6	4.9	4.4
8	7.4	4.9	3.8	2.7	2.7	4.9	4.7	4.9	7.1	8.2	11.0	12.6	13.2	16.4	21.1	25.2
9	62.2	30.4	25.8	16.7	15.1	15.1	12.3	9.0	3.8	3.8	5.5	5.5	5.5	5.2	6.3	12.6
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

42 Degrees North Latitude

1	1.1	1.1	0.3	0.8	3.3	4.1	5.2	4.1	6.6	6.6	6.0	6.0	5.5	6.6	5.2	6.3
2	7.1	6.6	4.9	6.6	5.8	6.0	5.8	7.4	7.7	9.6	12.6	12.9	12.1	11.5	9.9	10.4
3	4.4	3.0	1.9	2.7	2.7	4.9	3.0	5.5	4.9	4.9	4.7	5.2	4.4	3.8	4.7	4.1
4	1.6	23.6	27.4	25.5	29.3	25.5	20.5	26.3	27.7	30.1	30.1	27.9	31.2	34.8	29.9	19.7
5	2.2	20.3	24.9	25.5	21.9	21.1	30.7	31.0	31.5	26.8	22.2	22.2	20.5	13.2	6.8	2.5
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.1	6.3	5.2	4.7	6.0	6.6	9.6	11.2
7	3.8	3.3	4.7	8.2	15.6	19.2	17.0	12.1	10.7	7.1	7.1	7.4	7.4	7.4	7.1	5.5
8	4.4	3.3	3.3	2.5	1.6	1.9	2.2	2.7	3.8	5.8	7.9	9.0	9.6	9.9	15.6	22.2
9	75.3	38.9	32.6	28.2	19.7	17.3	15.6	9.3	3.0	2.7	4.1	4.7	3.3	6.3	11.2	18.1
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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39 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	1.1	0.3	0.3	2.2	1.4	3.0	4.9	6.0	5.5	5.5	4.7	5.2	5.5	6.0	6.3	0.0
2	4.7	4.7	5.2	5.5	4.4	3.0	3.8	4.4	6.0	7.4	9.3	8.8	9.3	7.7	4.9	0.0
3	1.9	3.6	1.6	1.6	1.9	2.7	3.8	4.4	3.6	4.9	5.8	4.7	4.4	5.5	4.7	0.0
4	0.0	14.5	18.4	18.4	20.8	24.7	15.3	22.5	25.2	27.1	29.9	30.4	34.8	36.2	25.8	0.0
5	0.0	11.8	23.0	26.0	24.9	21.4	32.6	32.1	32.1	29.9	22.5	21.1	15.1	5.5	1.4	0.0
6	0.0	0.0	0.0	0.0	0.3	0.3	0.3	4.4	9.0	10.4	11.5	10.7	11.0	15.1	18.1	0.0
7	1.6	3.8	3.6	4.1	7.9	18.4	20.3	16.4	11.0	8.5	9.6	9.9	10.1	8.5	9.0	0.0
8	3.3	1.6	2.5	1.9	1.1	1.4	1.1	1.6	3.3	4.4	4.9	5.8	4.9	5.5	9.6	0.0
9	87.4	59.7	45.5	40.3	37.3	25.2	17.8	8.2	4.4	1.9	1.9	3.6	4.9	10.1	20.3	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

36 Degrees North Latitude

1	0.5	0.3	0.3	1.4	0.8	3.0	3.0	3.8	3.6	5.2	5.2	4.4	4.9	4.4	0.0	0.0
2	2.5	1.9	1.4	1.4	2.2	2.2	1.4	2.7	3.6	3.3	3.8	6.6	5.5	3.8	0.0	0.0
3	1.1	2.5	3.3	2.5	1.4	1.1	3.8	1.6	5.2	5.2	4.7	4.4	3.8	5.2	0.0	0.0
4	0.0	3.3	9.3	10.7	15.9	19.2	12.6	19.5	20.8	23.8	28.8	31.5	34.0	30.4	0.0	0.0
5	0.0	2.7	14.8	21.1	24.1	21.1	27.1	34.0	32.3	28.2	23.0	16.7	10.1	2.2	0.0	0.0
6	0.0	0.0	0.0	0.0	0.5	0.5	4.9	14.0	17.5	18.6	19.2	18.9	20.5	25.5	0.0	0.0
7	1.1	3.6	3.6	4.4	4.4	14.2	21.9	15.9	13.2	11.0	11.8	11.2	12.3	11.5	0.0	0.0
8	3.0	1.9	1.4	1.4	1.1	1.1	0.8	0.8	1.6	2.2	2.2	2.7	4.1	3.0	0.0	0.0
9	91.8	83.8	66.0	57.3	49.6	37.5	24.4	7.7	2.2	2.5	1.4	3.6	4.7	14.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

33 Degrees North Latitude

1	0.0	0.3	0.8	1.1	0.8	1.1	1.9	3.0	1.9	3.8	4.4	4.9	2.7	3.6	0.0	0.0
2	0.0	1.4	0.5	0.8	1.4	1.1	0.8	1.6	1.4	1.6	3.0	3.0	1.9	1.9	0.0	0.0
3	0.0	2.2	1.9	2.2	1.4	0.8	3.3	0.8	3.6	3.3	3.0	2.2	3.6	3.6	0.0	0.0
4	0.0	0.0	3.8	4.7	8.2	13.4	7.7	15.1	18.6	24.7	29.9	30.7	28.2	19.5	0.0	0.0
5	0.0	0.0	4.4	8.5	19.7	15.9	27.7	32.9	27.9	21.4	17.3	10.7	4.4	0.3	0.0	0.0
6	0.0	0.0	0.0	0.0	1.6	3.3	13.4	25.8	34.0	33.4	30.1	31.0	36.2	40.8	0.0	0.0
7	0.0	1.1	1.1	2.5	4.1	13.4	17.5	13.4	9.0	9.6	10.7	14.0	14.5	12.9	0.0	0.0
8	0.0	0.8	1.4	1.1	0.8	0.8	0.8	0.3	0.8	0.5	0.8	1.1	1.6	1.9	0.0	0.0
9	0.0	94.2	86.0	79.2	61.9	50.1	26.8	7.1	2.7	1.6	0.8	2.5	6.8	15.6	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

30 Degrees North Latitude

1	0.0	0.0	0.5	0.0	1.1	1.1	0.8	1.4	1.9	1.6	3.0	1.4	1.6	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.8	0.8	0.5	0.5	1.1	1.1	0.5	1.4	0.8	0.0	0.0	0.0
3	0.0	0.0	0.8	1.4	0.5	1.4	0.5	0.8	2.2	2.7	1.9	1.6	2.7	0.0	0.0	0.0
4	0.0	0.0	0.5	1.6	2.7	1.4	2.7	11.0	18.9	20.5	21.4	23.3	15.9	0.0	0.0	0.0
5	0.0	0.0	0.0	1.4	2.2	5.5	25.5	29.0	13.2	8.5	6.0	3.8	0.3	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.5	1.9	16.4	41.6	49.0	50.1	49.0	52.3	55.3	0.0	0.0	0.0
7	0.0	0.0	1.9	0.8	1.4	6.0	12.1	7.7	9.6	12.1	14.8	12.1	12.3	0.0	0.0	0.0
8	0.0	0.0	0.5	0.8	0.5	0.5	0.5	0.0	0.3	0.3	0.0	0.0	0.5	0.0	0.0	0.0
9	0.0	0.0	95.6	94.0	90.1	81.4	40.8	7.9	3.8	3.0	3.3	4.1	10.4	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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27 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.8	0.5	1.4	1.4	1.4	1.6	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	1.9	1.6	1.1	1.4	0.5	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	14.8	12.9	12.3	9.6	6.6	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	13.7	17.8	5.2	1.6	1.1	0.8	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	10.7	53.4	63.0	66.3	69.6	69.9	69.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	6.0	7.1	6.0	9.0	7.7	8.2	9.6	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	68.8	12.3	8.5	7.1	6.8	8.5	12.6	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

24 Degrees North Latitude

WPT	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0	0.0	3.0	3.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.5	0.0	0.0	0.0	73.7	72.1	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.0	10.1	9.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.8	0.0	0.0	0.0	12.6	15.1	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Variability

51 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	5.7	5.4	5.7	3.7	2.3	2.8	4.3	5.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	1.1	1.8	2.7	2.1	1.5	0.9	0.6	1.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	2.2	4.4	6.5	4.7	3.7	4.7	4.2	4.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	3.4	2.0	1.8	1.6	1.2	0.9	0.7	0.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	1.4	1.6	1.9	1.6	0.9	0.9	0.9	1.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	31.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	2.8	2.6	2.5	1.9	1.7	1.6	1.8	2.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	2.0	1.8	1.6	1.7	1.9	1.7	2.1	1.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	1.6	2.1	2.3	1.5	1.2	1.7	1.9	2.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0

48 Degrees North Latitude

1	3.1	3.2	4.9	5.0	2.4	1.8	2.5	3.2	3.1	2.5	2.1	2.0	2.2	3.0	2.4	3.2
2	2.6	2.0	3.5	2.9	1.7	1.5	1.6	1.2	1.4	1.9	1.2	1.0	1.5	2.2	1.9	2.0
3	2.8	3.5	3.9	2.8	4.1	3.1	1.8	3.5	2.9	3.2	2.8	3.6	3.7	2.9	4.3	4.9
4	4.9	2.7	2.0	1.8	1.1	0.4	0.7	0.9	1.1	1.1	1.0	1.0	0.6	0.7	0.8	0.5
5	3.4	2.2	1.4	1.4	1.2	0.7	0.9	0.9	0.6	0.9	0.8	1.0	1.4	1.3	1.2	2.5
6	0.0	0.0	0.0	0.0	0.0	31.6	0.0	21.1	10.5	7.6	6.1	3.4	4.2	2.8	2.1	2.6
7	3.0	2.7	1.9	2.4	2.0	1.3	1.5	2.0	1.6	2.4	3.0	2.1	1.7	3.6	4.7	4.1
8	1.8	1.9	1.8	2.2	2.1	2.0	2.2	2.4	2.4	2.4	2.0	1.8	2.0	1.9	1.9	2.0
9	1.0	2.0	2.0	1.6	1.2	1.2	2.4	2.3	2.6	3.2	2.8	2.8	3.0	3.3	2.7	2.5

45 Degrees North Latitude

1	2.8	5.1	6.1	3.9	3.2	1.9	1.8	2.1	2.4	2.6	1.9	2.4	3.3	1.7	2.2	1.9
2	3.0	2.7	2.9	3.6	2.8	2.1	1.7	2.2	1.8	1.9	1.5	1.3	1.5	1.5	1.6	2.0
3	3.4	3.4	4.8	2.1	4.0	3.2	2.7	3.1	2.8	2.0	3.4	3.4	2.5	3.1	3.7	2.0
4	5.9	3.2	2.0	1.9	1.2	1.2	0.5	0.7	1.0	0.8	1.4	0.6	0.9	0.7	0.9	0.9
5	4.1	2.6	1.8	1.3	1.2	1.2	1.4	0.7	0.9	1.0	0.9	0.8	0.8	0.8	1.3	2.8
6	0.0	0.0	0.0	0.0	0.0	0.0	16.1	7.9	6.2	2.8	4.0	3.6	2.0	1.2	1.9	2.3
7	3.2	2.1	1.9	2.2	1.9	1.2	1.7	1.9	1.9	2.8	2.7	2.4	1.3	1.3	3.1	2.9
8	2.2	2.0	3.5	3.8	3.3	2.6	1.9	2.5	2.7	1.9	1.9	1.8	2.1	1.9	2.1	1.8
9	0.6	2.0	1.9	1.4	1.1	1.0	1.5	1.8	2.8	2.9	3.4	4.3	4.0	3.1	2.7	2.0

42 Degrees North Latitude

1	3.5	4.9	11.0	4.6	2.5	2.2	3.1	1.9	2.3	2.7	2.3	1.6	1.0	2.7	2.3	2.6
2	3.3	3.8	3.2	3.6	3.5	2.6	1.6	1.5	1.9	1.9	2.6	2.5	1.9	1.6	2.0	2.5
3	2.1	4.0	3.2	1.8	3.4	3.8	2.1	3.7	1.9	3.1	3.0	3.8	2.3	2.9	2.6	2.9
4	7.5	3.4	2.3	1.7	1.2	1.4	1.1	1.1	0.8	1.0	1.4	1.2	1.0	0.6	0.8	1.1
5	5.2	2.1	1.5	1.4	1.4	1.4	1.3	0.8	0.9	0.9	0.8	0.6	0.5	1.0	2.8	3.3
6	0.0	0.0	0.0	0.0	31.6	12.9	9.6	6.2	3.6	2.4	1.7	2.0	1.3	1.4	1.8	1.9
7	3.1	2.4	2.6	1.4	1.9	2.0	1.4	1.8	1.6	1.7	1.8	1.3	1.7	1.1	1.7	2.2
8	3.5	3.4	3.8	4.2	4.4	4.2	4.1	3.9	3.6	2.9	1.7	1.5	2.7	2.4	2.0	1.8
9	0.3	1.5	1.5	1.1	1.2	1.3	1.5	1.5	3.4	3.8	4.6	5.2	4.6	2.8	2.3	2.1

Variability

39 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	7.0	10.2	8.3	4.1	3.6	3.6	3.2	2.5	2.4	1.7	1.9	2.0	2.5	2.6	2.3	0.0
2	6.7	5.3	5.0	4.9	4.0	3.5	2.9	3.1	1.7	1.8	2.0	1.9	2.0	2.1	1.5	0.0
3	3.0	2.6	2.4	3.3	2.8	3.3	2.6	3.9	1.5	1.1	2.9	3.2	3.0	2.6	2.3	0.0
4	11.8	3.9	2.8	1.9	1.7	1.5	1.4	1.2	0.9	1.0	1.1	1.3	0.8	0.9	1.3	0.0
5	11.0	2.0	1.6	1.4	1.8	2.0	1.7	1.1	0.9	1.1	0.8	0.8	0.8	2.4	4.9	0.0
6	0.0	0.0	0.0	0.0	21.1	14.3	6.3	3.3	1.2	1.3	1.5	1.4	1.5	1.1	0.9	0.0
7	3.3	1.7	2.0	1.9	3.0	2.1	1.3	1.4	1.6	1.3	1.0	1.1	1.7	1.4	1.4	0.0
8	3.6	5.4	4.5	5.3	5.0	4.4	6.0	5.1	4.5	4.9	3.0	3.1	2.3	2.9	2.1	0.0
9	0.3	0.6	1.0	1.0	1.4	1.2	1.2	1.6	3.0	3.8	4.5	3.2	3.2	2.4	1.5	0.0

36 Degrees North Latitude

1	6.3	9.3	7.4	4.4	4.5	4.8	2.8	2.5	3.0	1.3	1.8	1.7	1.6	1.9	0.0	0.0
2	12.4	8.7	5.6	3.3	5.5	5.0	4.8	3.6	2.2	3.4	2.0	2.2	2.7	2.6	0.0	0.0
3	4.6	4.4	4.1	3.3	3.5	3.4	3.8	3.7	3.7	4.6	2.9	4.0	1.5	2.1	0.0	0.0
4	16.1	4.0	3.5	2.9	2.1	1.5	1.6	1.8	0.9	1.0	1.4	1.5	1.2	1.5	0.0	0.0
5	16.1	3.4	1.8	1.3	1.5	2.1	1.4	1.2	1.3	1.6	1.6	1.2	3.3	4.4	0.0	0.0
6	0.0	0.0	0.0	0.0	11.7	6.7	3.0	1.4	1.3	1.4	1.4	1.3	1.0	0.9	0.0	0.0
7	4.9	2.1	4.3	2.2	2.3	1.9	1.8	1.5	1.1	2.0	1.8	1.7	1.9	2.4	0.0	0.0
8	5.9	5.2	4.2	5.0	4.9	3.9	7.0	6.9	6.0	5.4	4.7	4.3	2.7	3.1	0.0	0.0
9	0.3	0.2	0.6	0.9	0.8	0.9	1.1	1.7	3.3	3.2	3.2	2.7	3.2	2.4	0.0	0.0

33 Degrees North Latitude

1	0.0	14.8	6.9	6.5	6.1	6.2	3.7	2.7	2.8	3.2	2.0	3.0	3.9	1.9	0.0	0.0
2	0.0	14.5	7.3	6.2	8.0	6.0	5.9	5.6	4.5	5.2	3.0	2.9	4.3	5.8	0.0	0.0
3	0.0	6.6	6.8	5.3	4.4	4.3	4.6	6.0	4.2	4.9	3.8	3.0	3.2	3.3	0.0	0.0
4	0.0	17.5	4.7	3.4	2.1	1.3	1.9	1.4	0.8	0.7	1.4	1.4	1.4	1.8	0.0	0.0
5	0.0	17.5	2.7	2.1	1.3	1.7	1.3	1.5	1.8	2.0	2.1	3.3	5.2	9.4	0.0	0.0
6	0.0	0.0	0.0	31.6	23.4	6.6	1.6	0.8	0.7	1.1	1.2	1.0	0.7	0.9	0.0	0.0
7	0.0	2.8	2.9	2.5	3.3	1.7	1.7	1.4	1.6	1.9	2.0	2.1	2.2	2.6	0.0	0.0
8	0.0	6.5	8.6	7.8	5.3	5.0	8.1	12.3	7.3	9.0	5.2	4.4	4.1	3.9	0.0	0.0
9	0.0	0.1	0.3	0.5	0.6	0.5	1.2	2.0	2.9	2.8	3.9	3.2	2.6	2.0	0.0	0.0

30 Degrees North Latitude

1	0.0	0.0	14.1	7.9	8.0	6.9	4.9	5.9	4.5	3.6	2.4	3.9	2.6	0.0	0.0	0.0
2	0.0	0.0	31.6	22.5	11.5	8.9	7.3	8.7	4.8	5.1	5.8	5.2	8.9	0.0	0.0	0.0
3	0.0	0.0	8.2	5.6	7.1	5.8	11.1	5.4	4.4	5.2	4.5	3.4	2.7	0.0	0.0	0.0
4	0.0	0.0	8.2	6.2	3.1	3.9	3.6	1.6	1.1	1.1	1.4	1.4	1.4	0.0	0.0	0.0
5	0.0	0.0	16.1	4.7	3.4	2.9	0.9	2.4	2.8	1.8	2.5	5.0	5.7	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	22.5	11.1	1.1	0.5	0.4	0.4	0.6	0.6	0.5	0.0	0.0	0.0
7	0.0	0.0	5.6	4.6	5.1	2.3	1.8	1.5	1.9	2.3	2.6	1.6	2.2	0.0	0.0	0.0
8	0.0	0.0	22.5	17.9	9.9	9.7	15.2	14.1	11.8	16.1	21.6	17.5	7.7	0.0	0.0	0.0
9	0.0	0.0	0.1	0.3	0.3	0.4	1.1	2.2	3.4	3.8	3.7	3.5	2.7	0.0	0.0	0.0

Variability

27 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	11.3	7.4	5.9	6.7	3.5	6.2	9.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	13.6	12.9	11.7	9.4	11.8	8.2	17.5	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	8.2	5.2	4.8	8.5	7.3	4.8	3.5	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	9.5	2.0	1.9	1.7	1.6	1.3	2.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.2	3.7	5.4	4.0	8.0	17.9	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.6	0.3	0.5	0.5	0.4	0.6	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.6	2.9	1.8	1.6	2.3	2.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.1	31.6	31.6	0.0	31.6	21.1	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.1	3.0	3.5	3.4	3.2	2.8	0.0	0.0	0.0

24 Degrees North Latitude

WPT	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	0.0	0.0	0.0	14.2	14.2	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.6	0.0	0.0	0.0	21.1	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	0.0	0.0	0.0	5.0	14.1	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	2.5	3.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	13.6	31.6	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.7	0.6	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	2.2	2.7	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	3.0	2.4	0.0	0.0	0.0

APPENDIX D

APPENDIX D

PERCENTAGE PROBABILITY OF RUN DURATION EXCEEDANCE

The data listings in this appendix present the percentage probability of a run of a weather pattern type exceeding the current duration. That is, if the run is already 2 days long (two consecutive days with the same weather pattern), the value given is the probability that the next day will also have the same weather pattern. Nine sets of tables are given, one for each current run weather pattern type. Summaries are presented for the six regions after these tables.

All of the tables are presented by latitude band across the region. The 10 bands are presented from north to south. Seventeen columns of data are presented in each band. The first column denotes the current run duration in days. The other 16 columns are headed by the longitude of the grid point for which the percentage probability of run duration exceedance applies.

Mean Probability of Exceeding Run Duration									
Total Grid									
Days	Weather Pattern Type of Run								
	1	2	3	4	5	6	7	8	9
1	6.2	12.1	3.1	35.2	33.3	51.0	22.1	23.8	37.0
2	0.5	1.8	0.1	12.4	11.9	31.8	5.7	6.1	19.1
3	0.1	0.4	0.0	4.9	4.8	21.3	1.6	2.3	11.9
4	0.0	0.1	0.0	2.0	2.0	15.4	0.6	1.0	8.4
5	0.0	0.0	0.0	0.9	0.9	11.7	0.2	0.5	6.4
6	0.0	0.0	0.0	0.4	0.5	9.1	0.1	0.2	5.0
7	0.0	0.0	0.0	0.2	0.3	7.4	0.1	0.1	4.2
Total									
runs	11048	20916	10695	55834	47503	20048	31273	16979	44430

Probability Run of WPT 1 Will Exceed Duration Shown

51 Degrees North Latitude

Days	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	6.7	0.0	4.7	2.6	7.2	3.8	3.2	8.2	8.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2	2.2	0.0	0.0	0.0	1.2	0.0	1.1	0.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Total runs	45	36	43	77	83	79	93	85	92	0	0	0	0	0	0	0

48 Degrees North Latitude

1	7.6	6.7	0.0	4.2	6.4	5.0	7.9	9.4	8.5	6.9	8.2	5.0	6.0	9.7	5.3	7.1
2	0.0	0.0	0.0	1.4	1.8	0.0	0.0	0.7	0.7	2.1	0.0	0.8	0.0	0.9	0.0	1.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs	79	45	41	71	109	120	126	139	141	145	134	120	133	113	113	99

45 Degrees North Latitude

1	4.5	4.7	0.0	2.2	2.8	8.6	11.2	6.8	7.4	9.9	7.8	6.9	5.5	8.3	9.4	4.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.7	1.1	1.7	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.6	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs	67	43	46	46	109	152	161	148	149	152	179	173	146	132	128	126

42 Degrees North Latitude

1	3.4	7.7	6.1	3.8	2.5	5.0	6.7	13.5	10.2	8.0	7.8	8.1	4.3	6.3	4.5	4.3
2	0.0	0.0	0.0	0.0	1.2	0.8	0.0	0.0	1.8	1.2	1.1	0.5	1.2	0.7	0.6	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs	58	39	33	53	81	121	135	148	167	162	180	197	162	142	157	162

Probability Run of WPT 1 Will Exceed Duration Shown

39 Degrees North Latitude

Days	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	7.5	3.6	4.2	1.7	3.0	3.6	5.2	12.2	7.8	3.8	5.5	10.5	6.5	6.1	4.2	100.0
2	2.5	0.0	0.0	0.0	0.0	0.0	1.7	2.2	0.6	0.6	0.5	0.6	0.0	1.1	0.0	100.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	100.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
Total runs=	40	28	24	60	66	84	116	139	167	160	183	181	169	181	189	0

36 Degrees North Latitude

1	9.1	4.8	0.0	4.9	7.0	4.3	2.5	7.9	11.3	8.2	6.1	5.9	5.3	4.8	100.0	100.0
2	0.0	0.0	0.0	0.0	2.3	1.4	0.0	0.8	0.0	0.0	1.4	0.0	1.3	0.6	100.0	100.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
Total runs=	22	21	22	41	43	69	122	126	115	146	147	136	151	165	0	0

33 Degrees North Latitude

1	100.0	0.0	0.0	0.0	3.1	1.9	2.7	5.9	7.6	9.6	7.4	2.9	6.1	1.6	100.0	100.0
2	100.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.9	0.0	0.0	0.0	100.0	100.0
3	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
4	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
5	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
6	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
7	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
Total runs=	0	14	14	23	32	53	74	85	92	94	108	105	115	122	0	0

30 Degrees North Latitude

1	100.0	100.0	0.0	0.0	4.8	2.6	0.0	0.0	6.3	4.5	1.3	8.6	3.0	100.0	100.0	100.0
2	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	100.0	100.0	100.0
3	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
4	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
5	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
6	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
7	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
Total runs=	0	0	5	8	21	38	41	33	48	67	77	58	66	0	0	0

Probability Run of WPT 1 Will Exceed Duration Shown

27 Degrees North Latitude

Days							Degrees West Longitude									
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	2.9	4.7	0.0	0.0	4.3	100.0	100.0	100.0
2	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
3	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
4	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
5	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
6	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
7	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
Total runs	0	0	0	0	0	0	14	25	35	43	38	29	23	0	0	0

24 Degrees North Latitude

1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	33.3	0.0	100.0	100.0	100.0
2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0
3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0
4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0
5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0
6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0
7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0
Total runs	0	0	0	0	0	0	0	6	0	0	0	6	8	0	0	0

Probability Run of HPT 2 Will Exceed Duration Shown

51 Degrees North Latitude

Days	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	24.2	18.7	16.0	8.8	8.6	10.7	13.6	12.2	14.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2	7.4	6.1	4.0	1.4	0.7	0.8	1.5	1.8	2.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3	2.0	2.8	1.3	0.5	0.0	0.0	0.3	0.3	0.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4	0.9	1.2	0.4	0.0	0.0	0.0	0.0	0.3	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Total runs	446	326	225	216	278	354	330	385	427	0	0	0	0	0	0	0

48 Degrees North Latitude

1	16.9	20.6	14.0	13.0	10.8	10.3	13.3	13.4	13.8	13.9	13.0	16.8	16.3	16.4	15.7	13.6
2	5.4	5.2	2.2	1.6	1.4	1.1	2.9	2.9	2.6	1.2	2.6	1.3	2.9	2.0	3.4	2.6
3	0.6	1.0	0.9	0.5	0.0	0.4	0.0	0.0	0.3	0.5	0.7	0.4	0.9	0.5	0.5	0.9
4	0.6	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.0	0.4	0.0	0.0	0.2
5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs	332	310	228	184	222	272	308	343	383	409	431	452	449	444	440	462

45 Degrees North Latitude

1	18.6	19.2	10.0	10.3	8.5	12.8	11.3	14.4	13.0	11.6	9.4	11.1	13.6	13.5	11.0	8.1
2	4.5	3.8	0.6	0.7	0.0	1.1	0.4	1.7	1.9	0.9	1.1	2.3	1.9	2.5	2.0	1.3
3	2.0	1.4	0.0	0.7	0.0	0.0	0.4	0.0	0.0	0.0	0.3	0.5	0.7	0.5	0.7	0.5
4	0.0	0.9	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.2	0.0
5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs	199	213	170	146	142	188	238	291	315	336	361	397	411	401	409	385

42 Degrees North Latitude

1	13.2	11.7	10.8	17.7	13.7	11.1	7.3	12.8	14.7	7.0	8.3	11.3	14.3	10.2	9.0	7.6
2	1.5	3.1	1.8	3.2	3.2	0.0	0.6	1.0	1.3	0.4	0.4	2.2	2.4	0.6	0.3	0.4
3	0.7	0.8	0.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.0	0.0	0.0
4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs	136	128	111	124	124	144	178	195	225	257	278	319	336	343	301	251

Probability Run of KPT 2 Will Exceed Duration Shown

39 Degrees North Latitude

Days	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	10.3	11.4	12.2	10.3	13.2	13.5	8.1	9.0	8.5	8.7	5.1	11.0	13.6	8.7	4.7	100.0
2	1.7	0.0	1.2	1.0	0.0	1.0	0.0	0.6	1.1	0.0	0.5	0.8	1.6	0.5	0.0	100.0
3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	100.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
Total runs=	58	70	82	97	91	104	136	167	176	183	216	237	243	206	169	0

36 Degrees North Latitude

1	11.1	4.2	6.1	2.4	7.7	9.3	6.3	6.7	11.8	5.2	6.6	9.3	7.8	4.3	100.0	100.0
2	5.6	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	100.0	100.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
Total runs=	18	24	33	41	39	54	79	89	110	116	152	151	128	92	0	0

33 Degrees North Latitude

1	100.0	0.0	0.0	6.3	9.5	10.7	4.4	2.0	5.8	2.8	1.1	2.3	2.4	0.0	100.0	100.0
2	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
3	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
4	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
5	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
6	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
7	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
Total runs=	0	11	13	16	21	28	45	49	52	72	92	86	42	35	0	0

30 Degrees North Latitude

1	100.0	100.0	0.0	50.0	11.1	18.2	8.3	0.0	5.6	5.3	0.0	0.0	0.0	100.0	100.0	100.0
2	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
3	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
4	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
5	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
6	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
7	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
Total runs=	0	0	1	2	9	11	24	25	36	38	42	33	13	0	0	0

Probability Run of WPT 2 Will Exceed Duration Shown

27 Degrees North Latitude

Days							Degrees West Longitude										
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66	
1	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	
2	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	
3	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	
4	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	
5	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	
6	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	
7	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	
Total runs=	0	0	0	0	0	0	7	4	6	10	7	10	4	0	0	0	

24 Degrees North Latitude

1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	100.0	
2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	100.0	
3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	100.0	
4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	100.0	
5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	100.0	
6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	100.0	
7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	100.0	
Total runs=	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	

Probability Run of WPT 3 Will Exceed Duration Shown

51 Degrees North Latitude

Days							Degrees West Longitude									
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	2.1	4.8	2.5	3.9	3.7	1.0	1.0	2.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Total runs	51	47	63	79	76	81	98	102	101	0	0	0	0	0	0	0

48 Degrees North Latitude

1	3.5	3.1	2.7	4.8	6.5	5.0	2.3	2.5	4.1	4.5	6.9	3.8	4.3	1.1	1.2	1.4
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs	86	65	73	83	107	121	128	122	122	110	101	106	94	94	83	70

45 Degrees North Latitude

1	2.7	0.0	1.1	1.9	2.8	4.5	4.2	3.9	3.5	5.1	3.4	2.9	4.4	4.0	1.8	1.9
2	0.0	0.0	0.0	0.0	0.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs	110	104	91	107	106	110	119	129	143	138	146	140	135	125	109	105

42 Degrees North Latitude

1	4.0	1.9	4.0	4.5	6.0	2.1	6.3	2.3	3.8	5.1	3.9	4.6	0.0	0.7	0.6	0.9
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs	126	108	100	88	84	97	95	130	133	157	155	130	128	136	157	110

Probability Run of WPT 3 Will Exceed Duration Shown

39 Degrees North Latitude

Days	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	3.0	1.0	5.2	4.1	1.4	4.2	7.0	2.7	3.2	3.7	2.0	2.2	2.8	2.7	0.6	100.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
Total runs	99	99	77	74	70	71	100	112	124	164	147	136	141	147	154	0

36 Degrees North Latitude

Days	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	3.4	9.4	6.3	3.0	4.9	4.2	4.6	2.6	3.6	2.9	2.5	4.6	3.0	4.1	100.0	100.0
2	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.0	0.0	100.0	100.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
Total runs	58	53	79	66	41	71	87	76	110	105	121	130	134	146	0	0

33 Degrees North Latitude

Days	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	100.0	7.1	0.0	5.9	0.0	6.0	1.3	1.7	1.3	0.0	3.3	5.8	1.9	1.9	100.0	100.0
2	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	100.0	100.0
3	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
4	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
5	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
6	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
7	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
Total runs	0	42	44	51	32	50	75	59	78	73	90	103	105	104	0	0

30 Degrees North Latitude

Days	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	100.0	100.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	1.5	2.1	1.7	3.4	100.0	100.0	100.0
2	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
3	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
4	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
5	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
6	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
7	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
Total runs	0	0	29	33	23	26	16	43	64	66	48	58	58	0	0	0

Probability Run of HPT 3 Will Exceed Duration Shown

27 Degrees North Latitude

Days							Degrees West Longitude									
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	3.3	0.0	3.2	0.0	100.0	100.0	100.0
2	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
3	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
4	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
5	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
6	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
7	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
Total runs	0	0	0	0	0	0	9	21	44	30	21	31	32	0	0	0

24 Degrees North Latitude

1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0
2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0
3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0
4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0
5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0
6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0
7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0
Total runs	0	0	0	0	0	0	0	11	0	0	0	14	6	0	0	0

Probability Run of WPT 4 Will Exceed Duration Shown

51 Degrees North Latitude

Days	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	33.3	34.5	47.5	36.4	34.0	31.3	34.8	40.3	36.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2	13.6	13.3	21.2	15.7	12.7	12.3	13.3	13.4	12.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3	5.7	5.4	12.0	7.4	4.4	4.6	5.8	6.1	6.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4	3.0	2.6	6.4	3.6	2.5	2.2	2.5	2.7	1.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5	1.2	1.1	2.1	1.6	1.0	0.5	0.7	1.3	0.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
6	0.5	0.6	1.0	1.0	0.5	0.0	0.3	0.5	0.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
7	0.2	0.4	0.5	0.3	0.0	0.0	0.0	0.3	0.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Total runs	405	534	609	610	592	592	607	625	634	0	0	0	0	0	0	0

48 Degrees North Latitude

1	22.3	36.5	37.3	45.5	37.9	32.2	33.1	35.6	35.5	38.7	33.4	31.2	32.1	37.3	30.8	27.6
2	8.3	14.6	13.0	21.3	14.6	11.2	10.8	11.0	12.8	12.0	11.8	11.6	11.5	11.5	8.6	9.2
3	3.4	6.2	6.0	9.4	5.9	4.0	4.7	4.0	4.0	4.6	4.6	4.4	4.1	3.7	3.5	2.5
4	1.5	3.1	2.3	4.9	1.9	1.0	0.9	0.9	1.7	1.7	1.9	2.7	1.6	1.5	1.7	0.9
5	0.4	1.2	1.0	2.9	0.6	0.3	0.2	0.5	0.6	0.2	0.7	1.2	0.7	0.4	0.2	0.4
6	0.0	0.4	0.3	1.4	0.3	0.3	0.2	0.3	0.2	0.0	0.4	0.6	0.3	0.1	0.2	0.4
7	0.0	0.2	0.0	0.9	0.2	0.0	0.0	0.2	0.0	0.0	0.1	0.3	0.3	0.1	0.0	0.2
Total runs	264	515	598	648	642	627	637	657	642	657	671	657	679	668	665	557

45 Degrees North Latitude

1	14.0	39.3	38.5	43.6	45.9	34.3	32.6	33.5	31.4	38.0	32.9	28.9	31.2	34.5	34.2	30.1
2	4.1	13.9	14.7	19.1	22.8	13.7	9.5	9.6	10.8	12.8	11.8	11.0	9.0	10.7	9.7	9.4
3	0.8	6.6	7.0	8.4	10.9	4.8	2.9	2.7	4.5	4.7	4.8	4.3	3.3	3.1	3.9	2.7
4	0.8	2.9	3.5	4.4	5.0	1.8	1.0	1.1	1.0	1.4	2.0	1.7	1.6	1.2	1.0	0.7
5	0.0	1.2	1.5	2.7	3.0	0.8	0.5	0.5	0.3	0.5	0.3	0.8	0.7	0.3	0.4	0.2
6	0.0	0.6	0.7	2.0	0.9	0.3	0.3	0.3	0.1	0.2	0.0	0.2	0.1	0.0	0.1	0.2
7	0.0	0.4	0.4	1.3	0.6	0.0	0.0	0.0	0.1	0.2	0.0	0.2	0.1	0.0	0.0	0.0
Total runs	121	488	545	596	662	626	623	656	669	666	645	647	667	672	673	554

42 Degrees North Latitude

1	3.3	35.5	34.8	35.3	41.4	38.5	33.3	34.9	32.9	36.2	32.0	32.1	33.8	41.3	36.7	26.8
2	0.0	12.4	10.9	11.8	20.8	16.4	8.8	10.0	10.0	13.4	12.2	10.7	11.9	15.2	12.2	8.7
3	0.0	6.2	3.8	5.7	10.6	8.1	2.4	4.1	3.7	4.8	4.5	5.3	4.6	4.7	4.3	2.2
4	0.0	2.1	1.2	2.4	6.5	3.6	0.8	1.3	1.2	1.4	2.0	2.7	2.2	2.5	1.2	0.4
5	0.0	0.9	0.8	0.9	4.2	1.6	0.5	0.7	0.6	0.3	0.6	1.3	0.9	0.6	0.5	0.0
6	0.0	0.7	0.6	0.2	2.7	0.8	0.2	0.5	0.2	0.3	0.2	0.3	0.3	0.1	0.0	0.0
7	0.0	0.2	0.2	0.0	2.0	0.5	0.0	0.0	0.0	0.2	0.0	0.2	0.1	0.0	0.0	0.0
Total runs	30	434	494	541	597	608	592	611	651	647	641	638	675	716	654	507

Probability Run of WPT 4 Will Exceed Duration Shown

39 Degrees North Latitude

Days	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	29.8	30.9	29.0	35.0	45.1	28.6	30.7	36.3	37.8	39.1	36.2	42.1	41.0	32.7	100.0
2	0.0	9.7	9.8	9.5	13.4	25.2	7.3	8.5	12.8	14.5	13.8	11.7	15.8	17.6	9.8	100.0
3	0.0	3.9	3.7	2.4	5.1	14.2	1.8	2.5	4.1	4.7	4.6	5.5	6.0	6.1	3.2	100.0
4	0.0	1.6	1.3	0.7	3.1	7.4	1.4	1.3	1.2	1.8	1.5	2.0	2.8	2.0	0.7	100.0
5	0.0	0.8	0.5	0.5	1.8	4.3	0.8	0.9	0.4	0.5	1.0	0.8	1.0	0.7	0.4	100.0
6	0.0	0.0	0.0	0.0	1.4	3.1	0.0	0.0	0.2	0.2	0.3	0.3	0.4	0.3	0.0	100.0
7	0.0	0.0	0.0	0.0	0.8	1.6	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	100.0
Total runs	7	258	376	411	509	556	507	554	564	600	614	658	682	693	560	0

36 Degrees North Latitude

1	0.0	12.7	29.8	27.0	25.6	43.2	24.0	29.8	36.6	41.3	43.0	39.9	44.8	36.5	100.0	100.0
2	0.0	2.8	10.5	6.6	8.7	19.8	5.6	7.0	11.9	14.5	15.7	15.2	19.1	12.1	100.0	100.0
3	0.0	0.0	4.8	2.5	3.2	10.9	2.2	2.5	3.8	3.9	6.2	6.7	7.5	5.2	100.0	100.0
4	0.0	0.0	1.3	0.8	1.0	5.4	0.5	1.2	1.0	1.4	2.7	3.0	3.1	1.3	100.0	100.0
5	0.0	0.0	0.9	0.4	0.7	3.1	0.0	0.4	0.4	0.5	0.9	1.2	1.3	0.2	100.0	100.0
6	0.0	0.0	0.0	0.0	0.5	2.3	0.0	0.2	0.2	0.0	0.5	0.8	0.7	0.0	100.0	100.0
7	0.0	0.0	0.0	0.0	0.2	2.3	0.0	0.0	0.2	0.0	0.0	0.5	0.3	0.0	100.0	100.0
Total runs	3	71	228	241	403	516	408	486	497	559	561	597	614	556	0	0

33 Degrees North Latitude

1	100.0	33.3	21.9	19.6	15.9	29.5	17.2	26.9	35.5	43.4	42.9	44.3	46.3	35.3	100.0	100.0
2	100.0	0.0	5.1	4.3	3.8	9.5	2.4	7.7	11.5	15.0	16.3	18.1	18.2	10.5	100.0	100.0
3	100.0	0.0	2.2	1.8	1.5	4.3	0.0	2.2	5.3	5.1	7.0	8.3	6.8	2.8	100.0	100.0
4	100.0	0.0	0.0	0.6	0.4	1.8	0.0	0.7	1.5	2.4	3.0	3.1	2.5	0.3	100.0	100.0
5	100.0	0.0	0.0	0.6	0.4	0.7	0.0	0.5	0.2	0.4	1.4	1.8	1.1	0.0	100.0	100.0
6	100.0	0.0	0.0	0.0	0.4	0.5	0.0	0.0	0.0	0.0	0.6	0.8	0.6	0.0	100.0	100.0
7	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.6	0.2	0.0	100.0	100.0
Total runs	0	3	137	163	264	441	291	402	454	493	497	508	473	354	0	0

30 Degrees North Latitude

1	100.0	100.0	6.3	19.5	12.8	10.3	5.5	26.1	40.1	40.8	41.6	47.9	41.0	100.0	100.0	100.0
2	100.0	100.0	6.3	3.7	1.1	1.5	0.0	6.4	11.6	13.5	16.0	16.1	12.9	100.0	100.0	100.0
3	100.0	100.0	0.0	2.4	1.1	0.0	0.0	1.7	4.2	5.6	8.0	5.8	4.7	100.0	100.0	100.0
4	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.9	1.5	1.5	3.1	2.6	0.6	100.0	100.0	100.0
5	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	1.3	1.8	1.1	0.0	100.0	100.0	100.0
6	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.3	0.5	0.0	100.0	100.0	100.0
7	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	100.0	100.0	100.0
Total runs	0	0	16	82	94	136	128	345	404	392	387	380	317	0	0	0

Probability Run of WPT 4 Will Exceed Duration Shown

27 Degrees North Latitude

Days							Degrees West Longitude									
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	100.0	100.0	100.0	100.0	100.0	100.0	2.9	29.9	35.9	34.2	36.6	37.0	31.4	100.0	100.0	100.0
2	100.0	100.0	100.0	100.0	100.0	100.0	0.0	6.0	8.7	9.7	13.0	10.4	8.9	100.0	100.0	100.0
3	100.0	100.0	100.0	100.0	100.0	100.0	0.0	1.9	2.8	3.9	4.6	4.3	2.4	100.0	100.0	100.0
4	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.3	1.2	1.3	1.3	1.2	100.0	100.0	100.0
5	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.3	0.4	0.4	0.4	0.0	100.0	100.0	100.0
6	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.3	0.4	0.0	0.0	0.0	100.0	100.0	100.0
7	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
Total runs	0	0	0	0	0	0	34	268	287	257	238	230	169	0	0	0

24 Degrees North Latitude

1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	25.4	100.0	100.0	100.0	28.3	18.3	100.0	100.0	100.0
2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	3.6	100.0	100.0	100.0	4.0	1.4	100.0	100.0	100.0
3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	1.0	100.0	100.0	100.0	1.0	0.0	100.0	100.0	100.0
4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0
5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0
6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0
7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0
Total runs	0	0	0	0	0	0	0	193	0	0	0	99	71	0	0	0

Probability Run of WPT 5 Will Exceed Duration Shown

51 Degrees North Latitude

Days	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	28.3	36.4	30.4	29.4	32.1	34.2	37.9	33.8	33.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2	10.9	16.5	13.1	11.8	11.7	14.1	14.0	10.9	12.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3	5.2	9.9	5.2	3.9	4.8	5.0	6.0	4.9	5.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4	2.5	4.3	1.8	1.7	2.4	2.7	2.5	3.0	2.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5	2.5	2.3	0.5	0.9	0.9	0.8	1.0	1.2	0.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
6	1.9	1.9	0.2	0.2	0.2	0.3	0.7	0.3	0.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0
7	1.4	1.2	0.2	0.2	0.0	0.3	0.3	0.2	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Total runs	367	484	444	459	546	602	601	594	611	0	0	0	0	0	0	0

48 Degrees North Latitude

1	19.0	38.5	38.2	31.2	28.5	35.6	34.3	35.0	34.1	32.4	31.7	27.9	25.8	23.3	20.2	17.9
2	3.9	18.2	15.5	13.6	10.0	12.2	11.8	9.4	13.6	11.5	8.5	8.2	6.7	5.3	4.1	2.7
3	2.4	9.1	6.9	4.4	2.3	4.8	3.8	3.4	5.1	4.7	2.9	2.0	1.9	1.3	0.5	0.3
4	1.5	4.3	3.6	1.8	1.1	1.1	1.8	1.8	2.6	1.7	1.2	0.3	0.4	0.2	0.0	0.3
5	0.5	2.2	1.3	0.7	0.6	0.0	0.5	0.8	1.0	0.7	0.5	0.3	0.2	0.2	0.0	0.0
6	0.5	1.4	0.6	0.2	0.0	0.0	0.0	0.2	0.2	0.3	0.2	0.2	0.2	0.0	0.0	0.0
7	0.5	0.7	0.4	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0
Total runs	205	418	523	433	470	564	609	617	625	598	589	599	566	533	411	296

45 Degrees North Latitude

1	9.3	43.7	45.0	35.8	31.5	31.3	34.9	33.1	37.9	32.5	32.7	29.5	26.0	23.3	19.4	14.1
2	1.9	20.8	20.2	16.3	11.3	10.5	12.5	11.2	13.8	9.8	9.3	9.2	5.9	6.9	4.0	2.9
3	0.9	9.5	9.1	6.9	4.7	3.1	4.8	4.1	5.7	3.2	3.4	3.2	2.0	2.0	0.6	1.0
4	0.0	4.5	5.0	2.7	1.4	1.2	1.6	2.2	2.5	1.4	0.8	0.9	0.8	0.2	0.0	0.0
5	0.0	2.4	2.4	1.2	0.7	0.0	0.3	0.9	1.1	0.6	0.3	0.2	0.3	0.2	0.0	0.0
6	0.0	2.1	1.6	0.9	0.2	0.0	0.0	0.5	0.5	0.5	0.2	0.2	0.0	0.0	0.0	0.0
7	0.0	1.6	1.2	0.2	0.2	0.0	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs	108	380	504	565	426	485	578	641	652	652	611	586	593	494	351	206

42 Degrees North Latitude

1	7.7	45.6	50.7	45.7	34.2	33.3	35.4	38.3	39.2	34.5	35.8	32.6	26.9	19.4	11.4	8.2
2	0.0	23.0	25.2	22.4	12.3	10.8	13.0	15.0	15.2	10.1	11.7	11.7	7.6	4.7	1.5	1.0
3	0.0	10.0	13.4	11.1	5.6	4.5	4.3	6.2	4.8	3.3	4.0	3.0	2.2	1.0	0.5	0.0
4	0.0	5.3	6.3	5.1	2.2	1.6	1.5	2.0	2.3	1.7	1.3	1.1	0.6	0.0	0.0	0.0
5	0.0	2.9	2.6	1.8	1.4	0.5	1.0	0.6	1.4	0.8	0.5	0.0	0.2	0.0	0.0	0.0
6	0.0	0.8	2.0	1.1	0.8	0.0	0.3	0.5	0.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.3	1.4	0.5	0.4	0.0	0.0	0.2	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Total runs	39	379	493	549	503	444	599	642	664	666	623	571	540	408	202	98

Probability Run of WPT 5 Will Exceed Duration Shown

Days	39 Degrees North Latitude															
	126	122	118	114	110	106	Degrees West Longitude									
							102	98	94	90	86	82	78	74	70	66
1	0.0	34.7	50.5	48.5	39.4	32.0	38.9	38.5	41.2	39.4	36.6	32.5	22.2	14.6	8.0	100.0
2	0.0	15.9	25.9	24.1	16.6	11.6	12.0	15.9	14.6	12.5	9.8	9.6	3.6	1.5	1.3	100.0
3	0.0	6.1	14.3	13.3	8.5	5.2	3.8	6.4	4.7	3.8	3.3	2.2	0.7	0.5	0.0	100.0
4	0.0	2.5	7.5	7.0	4.5	2.1	1.7	2.7	1.7	1.0	0.9	0.4	0.0	0.0	0.0	100.0
5	0.0	1.1	4.8	3.9	2.8	0.7	0.7	0.9	0.9	0.3	0.2	0.0	0.0	0.0	0.0	100.0
6	0.0	0.4	3.1	2.2	1.2	0.2	0.7	0.5	0.6	0.3	0.0	0.0	0.0	0.0	0.0	100.0
7	0.0	0.0	1.8	1.6	0.5	0.0	0.5	0.2	0.5	0.2	0.0	0.0	0.0	0.0	0.0	100.0
Total runs	9	277	455	557	579	422	574	637	638	606	580	541	446	198	75	0

36 Degrees North Latitude																
1	0.0	10.8	43.8	47.7	42.6	32.0	37.6	40.8	39.8	38.5	34.9	26.6	16.5	6.5	100.0	100.0
2	0.0	1.5	22.4	25.2	20.2	10.0	13.0	17.4	15.6	11.2	8.2	5.8	3.0	0.0	100.0	100.0
3	0.0	0.0	10.2	12.2	11.1	4.9	4.0	8.1	6.3	4.5	3.3	1.4	1.3	0.0	100.0	100.0
4	0.0	0.0	4.3	7.3	6.2	2.6	1.2	3.2	3.4	1.1	1.5	0.9	0.0	0.0	100.0	100.0
5	0.0	0.0	2.2	3.4	3.8	0.9	0.3	1.4	1.7	0.4	0.6	0.2	0.0	0.0	100.0	100.0
6	0.0	0.0	1.2	1.7	2.1	0.7	0.0	0.6	0.7	0.2	0.4	0.0	0.0	0.0	100.0	100.0
7	0.0	0.0	0.9	1.3	1.0	0.5	0.0	0.5	0.2	0.2	0.4	0.0	0.0	0.0	100.0	100.0
Total runs	3	65	322	532	578	428	577	633	591	535	478	429	237	77	0	0

33 Degrees North Latitude																
1	100.0	0.0	17.4	27.1	38.3	27.9	41.6	41.5	36.5	31.9	31.0	19.3	10.5	0.0	100.0	100.0
2	100.0	0.0	5.0	10.6	16.7	8.1	13.6	15.1	12.2	9.2	5.8	3.2	0.0	0.0	100.0	100.0
3	100.0	0.0	0.8	2.6	7.9	3.6	5.3	7.4	4.3	3.1	1.9	1.6	0.0	0.0	100.0	100.0
4	100.0	0.0	0.0	1.3	3.5	1.5	1.9	2.3	2.1	0.9	0.6	0.4	0.0	0.0	100.0	100.0
5	100.0	0.0	0.0	0.3	2.0	0.8	0.5	0.9	0.4	0.5	0.3	0.0	0.0	0.0	100.0	100.0
6	100.0	0.0	0.0	0.3	0.2	0.3	0.2	0.7	0.4	0.2	0.0	0.0	0.0	0.0	100.0	100.0
7	100.0	0.0	0.0	0.3	0.0	0.3	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	100.0	100.0
Total runs	0	4	121	310	545	394	565	557	485	426	361	249	105	19	0	0

30 Degrees North Latitude																
1	100.0	100.0	0.0	5.9	13.2	26.6	45.3	34.1	23.5	13.5	14.4	15.0	3.6	100.0	100.0	100.0
2	100.0	100.0	0.0	0.0	2.0	4.6	17.6	11.3	4.2	1.8	2.1	0.9	0.0	100.0	100.0	100.0
3	100.0	100.0	0.0	0.0	0.7	1.4	6.9	4.3	1.1	0.9	0.0	0.0	0.0	100.0	100.0	100.0
4	100.0	100.0	0.0	0.0	0.0	0.0	2.0	0.7	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
5	100.0	100.0	0.0	0.0	0.0	0.0	1.4	0.2	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
6	100.0	100.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
7	100.0	100.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
Total runs	0	0	3	51	151	218	495	443	264	223	188	113	28	0	0	0

Probability Run of WPT 5 Will Exceed Duration Shown

27 Degrees North Latitude

Days	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	100.0	100.0	100.0	100.0	100.0	100.0	31.1	20.8	10.0	12.7	4.1	10.0	0.0	100.0	100.0	100.0
2	100.0	100.0	100.0	100.0	100.0	100.0	9.3	6.4	0.0	1.6	0.0	0.0	0.0	100.0	100.0	100.0
3	100.0	100.0	100.0	100.0	100.0	100.0	1.6	3.4	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
4	100.0	100.0	100.0	100.0	100.0	100.0	0.3	0.7	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
5	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
6	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
7	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
Total runs=	0	0	0	0	0	0	322	298	110	63	49	30	7	0	0	0

24 Degrees North Latitude

1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	18.7	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0
2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	3.9	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0
3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	1.5	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0
4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.5	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0
5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0
6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0
7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0
Total runs=	0	0	0	0	0	0	0	203	0	0	0	7	1	0	0	0

Probability Run of KPT 6 Will Exceed Duration Shown

51 Degrees North Latitude

Days	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
6	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
7	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Total runs=	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0

48 Degrees North Latitude

1	100.0	100.0	100.0	100.0	100.0	0.0	100.0	0.0	25.0	18.8	19.4	23.7	25.5	16.2	20.2	18.0
2	100.0	100.0	100.0	100.0	100.0	0.0	100.0	0.0	0.0	12.5	3.2	5.3	4.3	1.5	1.0	1.4
3	100.0	100.0	100.0	100.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.7
4	100.0	100.0	100.0	100.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	100.0	100.0	100.0	100.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	100.0	100.0	100.0	100.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	100.0	100.0	100.0	100.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs=	0	0	0	0	0	1	0	2	8	16	31	38	47	68	99	139

45 Degrees North Latitude

1	100.0	100.0	100.0	100.0	100.0	100.0	0.0	6.7	32.4	23.9	32.9	31.7	30.1	25.2	19.4	22.7
2	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	10.8	9.0	11.0	9.8	7.5	4.7	5.0	6.2
3	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	1.5	4.1	4.9	2.2	1.6	0.6	1.7
4	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	2.7	2.4	2.2	0.8	0.0	0.4
5	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	1.2	1.1	0.0	0.0	0.0
6	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs=	0	0	0	0	0	0	3	15	37	67	73	82	93	127	180	242

42 Degrees North Latitude

1	100.0	100.0	100.0	100.0	0.0	0.0	30.0	27.1	39.1	38.5	38.6	35.9	32.2	27.1	28.2	31.7
2	100.0	100.0	100.0	100.0	0.0	0.0	10.0	12.5	14.9	17.7	15.2	14.4	11.5	12.6	10.5	12.1
3	100.0	100.0	100.0	100.0	0.0	0.0	0.0	4.2	3.4	6.2	7.6	9.2	4.4	4.2	3.4	4.3
4	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	3.1	4.8	3.9	1.6	0.9	1.7	1.7
5	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.3	0.5	0.0	1.0	1.2
6	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.5	0.0	0.3	0.9
7	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6
Total runs=	0	0	0	0	1	4	10	48	87	130	145	153	183	214	294	347

Probability Run of HPT 6 Will Exceed Duration Shown

Days	39 Degrees North Latitude															
	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	100.0	100.0	100.0	100.0	0.0	14.3	17.6	31.8	50.3	48.7	49.8	43.8	33.3	32.7	36.2	100.0
2	100.0	100.0	100.0	100.0	0.0	14.3	5.9	14.4	26.2	27.6	26.8	23.9	13.3	13.7	14.3	100.0
3	100.0	100.0	100.0	100.0	0.0	0.0	5.9	5.3	9.2	13.8	13.8	9.1	7.0	6.3	6.6	100.0
4	100.0	100.0	100.0	100.0	0.0	0.0	0.0	3.0	5.1	7.3	7.9	4.7	2.9	3.6	3.6	100.0
5	100.0	100.0	100.0	100.0	0.0	0.0	0.0	1.5	2.1	3.4	4.6	2.5	1.6	1.5	2.0	100.0
6	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.8	1.5	2.6	3.3	1.1	1.0	0.8	1.8	100.0
7	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	1.0	1.3	2.1	1.1	1.0	0.5	0.9	100.0
Total runs	0	0	0	0	2	7	34	132	195	232	239	276	315	394	442	0

36 Degrees North Latitude																
1	100.0	100.0	100.0	100.0	0.0	5.6	25.0	47.8	53.6	55.7	50.3	50.1	45.6	48.7	100.0	100.0
2	100.0	100.0	100.0	100.0	0.0	5.6	13.8	25.7	35.4	34.5	31.7	29.5	24.4	24.4	100.0	100.0
3	100.0	100.0	100.0	100.0	0.0	0.0	6.9	16.8	24.8	23.2	22.5	16.1	11.6	10.9	100.0	100.0
4	100.0	100.0	100.0	100.0	0.0	0.0	4.3	11.6	18.5	14.8	15.6	10.6	7.9	6.9	100.0	100.0
5	100.0	100.0	100.0	100.0	0.0	0.0	0.9	7.5	12.3	11.0	11.9	8.1	5.6	5.3	100.0	100.0
6	100.0	100.0	100.0	100.0	0.0	0.0	0.9	3.4	8.6	8.4	8.3	4.5	3.4	3.1	100.0	100.0
7	100.0	100.0	100.0	100.0	0.0	0.0	0.9	2.2	5.0	5.8	6.1	2.5	2.1	1.9	100.0	100.0
Total runs	0	0	0	0	6	18	116	268	302	345	360	397	467	524	0	0

33 Degrees North Latitude																
1	100.0	100.0	100.0	0.0	14.3	10.5	35.0	50.4	52.6	55.2	54.8	53.7	53.7	54.5	100.0	100.0
2	100.0	100.0	100.0	0.0	0.0	7.9	14.4	31.7	35.5	36.3	35.8	32.3	32.4	34.4	100.0	100.0
3	100.0	100.0	100.0	0.0	0.0	0.0	7.4	21.7	26.1	25.2	24.5	22.2	19.3	20.4	100.0	100.0
4	100.0	100.0	100.0	0.0	0.0	0.0	5.8	15.7	18.0	19.2	18.8	15.2	11.0	11.7	100.0	100.0
5	100.0	100.0	100.0	0.0	0.0	0.0	4.1	11.7	13.5	14.1	13.1	11.0	8.4	8.1	100.0	100.0
6	100.0	100.0	100.0	0.0	0.0	0.0	2.5	8.5	12.3	12.2	12.2	7.8	6.1	5.5	100.0	100.0
7	100.0	100.0	100.0	0.0	0.0	0.0	1.6	7.2	11.4	10.9	9.4	5.1	4.2	4.0	100.0	100.0
Total runs	0	0	0	1	7	38	243	401	422	433	458	527	592	631	0	0

30 Degrees North Latitude																
1	100.0	100.0	100.0	100.0	0.0	10.5	32.3	54.1	61.8	61.0	63.4	63.0	65.8	100.0	100.0	100.0
2	100.0	100.0	100.0	100.0	0.0	0.0	13.2	37.2	42.0	43.1	45.0	42.6	44.3	100.0	100.0	100.0
3	100.0	100.0	100.0	100.0	0.0	0.0	8.6	26.4	30.1	29.1	31.0	32.5	32.3	100.0	100.0	100.0
4	100.0	100.0	100.0	100.0	0.0	0.0	4.6	18.2	21.7	23.2	24.4	24.0	22.7	100.0	100.0	100.0
5	100.0	100.0	100.0	100.0	0.0	0.0	2.7	14.0	18.8	19.1	19.0	19.7	17.3	100.0	100.0	100.0
6	100.0	100.0	100.0	100.0	0.0	0.0	1.3	11.8	15.6	17.1	15.7	14.9	12.9	100.0	100.0	100.0
7	100.0	100.0	100.0	100.0	0.0	0.0	1.3	10.1	12.6	13.2	13.8	13.6	10.2	100.0	100.0	100.0
Total runs	0	0	0	0	3	19	372	473	469	508	516	538	591	0	0	0

Probability Run of KPT 6 Will Exceed Duration Shown

27 Degrees North Latitude

Days							Degrees West Longitude										
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66	
1	100.0	100.0	100.0	100.0	100.0	100.0	25.6	59.7	68.4	72.6	74.2	73.9	73.0	100.0	100.0	100.0	
2	100.0	100.0	100.0	100.0	100.0	100.0	7.4	42.6	49.7	55.9	55.4	54.3	55.1	100.0	100.0	100.0	
3	100.0	100.0	100.0	100.0	100.0	100.0	2.4	29.7	38.6	40.6	42.7	43.8	44.2	100.0	100.0	100.0	
4	100.0	100.0	100.0	100.0	100.0	100.0	1.5	22.1	29.0	32.6	34.0	35.3	36.5	100.0	100.0	100.0	
5	100.0	100.0	100.0	100.0	100.0	100.0	0.6	17.3	23.4	25.1	27.7	28.2	28.1	100.0	100.0	100.0	
6	100.0	100.0	100.0	100.0	100.0	100.0	0.0	13.3	19.3	20.7	22.4	21.1	22.2	100.0	100.0	100.0	
7	100.0	100.0	100.0	100.0	100.0	100.0	0.0	10.5	14.8	16.7	19.0	17.9	19.7	100.0	100.0	100.0	
Total runs	0	0	0	0	0	0	340	526	487	478	473	464	477	0	0	0	

24 Degrees North Latitude

1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	58.2	100.0	100.0	100.0	76.4	75.9	100.0	100.0	100.0	
2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	37.5	100.0	100.0	100.0	61.9	60.8	100.0	100.0	100.0	
3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	24.7	100.0	100.0	100.0	51.6	49.8	100.0	100.0	100.0	
4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	17.8	100.0	100.0	100.0	42.5	40.3	100.0	100.0	100.0	
5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	12.9	100.0	100.0	100.0	34.6	32.3	100.0	100.0	100.0	
6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	8.9	100.0	100.0	100.0	28.3	28.3	100.0	100.0	100.0	
7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	6.7	100.0	100.0	100.0	24.1	24.3	100.0	100.0	100.0	
Total runs	0	0	0	0	0	0	0	653	0	0	0	428	424	0	0	0	

Probability Run of WPT 7 Will Exceed Duration Shown

51 Degrees North Latitude

Days	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	17.4	20.5	29.9	36.0	25.1	23.9	21.8	18.5	16.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2	2.6	5.6	10.6	16.5	8.4	6.1	3.2	3.8	4.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3	1.1	2.6	4.5	4.8	2.6	1.5	0.4	1.3	2.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4	0.5	2.1	2.4	2.5	0.8	0.6	0.0	0.4	1.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5	0.5	0.4	2.1	1.3	0.0	0.0	0.0	0.4	0.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
6	0.5	0.4	1.5	0.0	0.0	0.0	0.0	0.4	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
7	0.5	0.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Total runs	190	234	331	394	382	327	285	238	199	0	0	0	0	0	0	0

48 Degrees North Latitude

1	11.9	13.4	22.6	27.8	34.1	23.2	24.9	17.5	13.5	16.6	12.9	12.9	15.8	17.8	20.5	19.8
2	2.3	2.5	5.1	11.5	13.2	7.0	5.1	3.4	2.9	2.0	2.2	1.7	2.9	1.4	2.6	4.3
3	0.0	0.0	3.4	5.0	5.6	2.3	0.6	0.7	2.0	0.5	0.5	0.6	0.0	0.0	1.3	0.6
4	0.0	0.0	2.4	3.4	2.7	0.5	0.0	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.6	0.0
5	0.0	0.0	0.0	1.6	1.5	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.5	0.7	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs	177	202	296	381	410	383	333	291	245	205	186	178	171	146	156	162

45 Degrees North Latitude

1	12.3	14.0	18.8	25.2	31.3	30.3	25.3	18.5	16.3	16.1	20.9	21.9	16.7	17.7	18.5	18.8
2	2.5	2.8	4.2	8.2	11.0	9.0	7.3	5.5	2.2	1.7	2.3	1.8	1.4	2.7	1.2	2.4
3	1.2	0.6	0.9	2.3	3.7	3.3	1.4	2.3	0.7	0.4	0.5	0.4	0.9	0.4	1.2	0.6
4	0.6	0.6	0.5	0.7	2.6	2.5	0.5	0.6	0.4	0.0	0.0	0.0	0.0	0.4	0.6	0.6
5	0.0	0.0	0.0	0.7	1.6	1.2	0.2	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.6
6	0.0	0.0	0.0	0.0	0.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
7	0.0	0.0	0.0	0.0	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs	163	179	213	306	383	489	427	346	276	236	220	224	221	226	173	170

42 Degrees North Latitude

1	6.0	16.5	11.8	19.4	27.0	34.2	25.4	22.6	25.6	18.9	20.6	19.1	21.8	20.0	19.7	18.6
2	1.1	1.1	2.8	5.8	7.7	12.6	8.7	5.5	3.4	4.9	5.3	4.0	3.6	3.5	3.1	4.6
3	0.0	0.0	0.0	1.4	3.0	5.7	2.9	0.5	0.9	1.4	1.1	0.0	0.4	1.3	0.4	1.0
4	0.0	0.0	0.0	0.0	0.3	3.1	0.7	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.4	0.5
5	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs	182	182	211	278	366	459	448	402	328	285	262	272	248	230	228	194

Probability Run of KPT 7 Will Exceed Duration Shown

39 Degrees North Latitude

Days	Degree West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	6.0	12.7	14.6	13.9	26.1	29.3	31.5	25.9	21.7	22.8	23.0	22.9	24.0	17.3	19.9	100.0
2	1.2	0.6	1.8	1.8	4.7	9.2	10.6	7.2	6.9	6.5	5.8	5.6	6.3	4.0	4.1	100.0
3	0.0	0.0	0.0	0.0	1.4	3.2	3.5	1.9	3.0	2.2	0.3	2.1	1.4	1.4	0.8	100.0
4	0.0	0.0	0.0	0.0	0.4	1.4	0.6	0.7	0.8	0.6	0.3	0.3	0.0	0.7	0.0	100.0
5	0.0	0.0	0.0	0.0	0.4	0.5	0.2	0.2	0.5	0.0	0.3	0.0	0.0	0.4	0.0	100.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.0	0.3	0.0	0.0	0.0	0.0	100.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	100.0
Total runs	166	173	171	223	276	433	483	429	364	324	313	288	288	277	241	0

36 Degrees North Latitude

1	3.8	2.9	7.4	13.1	8.8	20.8	26.0	22.0	28.1	20.2	23.9	22.2	25.2	26.1	100.0	100.0
2	0.0	0.0	0.9	0.7	0.0	6.5	7.1	4.6	5.8	5.6	7.3	6.6	7.6	8.3	100.0	100.0
3	0.0	0.0	0.0	0.0	0.0	1.2	1.6	1.5	0.3	1.9	2.3	1.8	1.2	1.9	100.0	100.0
4	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.5	0.0	0.9	1.0	0.3	0.3	0.3	100.0	100.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0	100.0	100.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	100.0	100.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
Total runs	104	102	108	145	160	341	450	391	345	322	301	333	330	314	0	0

33 Degrees North Latitude

1	100.0	3.2	5.9	6.9	9.2	22.5	22.8	23.8	22.7	23.2	26.9	28.4	22.4	22.8	100.0	100.0
2	100.0	0.0	1.2	1.0	0.9	3.5	5.5	5.5	6.7	5.7	5.8	7.7	7.1	6.8	100.0	100.0
3	100.0	0.0	0.0	0.0	0.0	0.0	1.3	0.9	2.3	0.0	1.4	1.2	2.3	2.5	100.0	100.0
4	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.3	0.6	0.6	0.9	100.0	100.0
5	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	100.0	100.0
6	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
7	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
Total runs	0	63	85	102	109	316	381	345	300	280	294	338	353	324	0	0

30 Degrees North Latitude

1	100.0	100.0	2.5	5.9	10.1	17.8	18.0	20.9	23.5	21.5	27.2	19.6	21.5	100.0	100.0	100.0
2	100.0	100.0	0.0	0.0	4.3	1.4	5.1	4.0	6.3	2.6	6.1	9.1	7.5	100.0	100.0	100.0
3	100.0	100.0	0.0	0.0	1.4	0.0	1.4	1.1	1.1	0.7	1.1	2.2	0.7	100.0	100.0	100.0
4	100.0	100.0	0.0	0.0	0.0	0.0	0.3	1.1	0.0	0.3	0.7	0.4	0.0	100.0	100.0	100.0
5	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	0.0	0.0	100.0	100.0	100.0
6	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.0	0.0	100.0	100.0	100.0
7	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	100.0	100.0	100.0
Total runs	0	0	40	51	69	214	295	277	272	303	279	275	279	0	0	0

Probability Run of WPT 7 Will Exceed Duration Shown

27 Degrees North Latitude

Days							Degrees West Longitude									
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	100.0	100.0	100.0	100.0	100.0	100.0	18.1	23.8	27.7	30.9	22.6	28.0	25.4	100.0	100.0	100.0
2	100.0	100.0	100.0	100.0	100.0	100.0	3.8	5.6	8.2	8.5	8.0	7.6	6.1	100.0	100.0	100.0
3	100.0	100.0	100.0	100.0	100.0	100.0	1.0	1.6	3.1	2.2	0.9	0.9	0.9	100.0	100.0	100.0
4	100.0	100.0	100.0	100.0	100.0	100.0	0.5	0.0	0.8	0.4	0.4	0.0	0.0	100.0	100.0	100.0
5	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.8	0.4	0.4	0.0	0.0	100.0	100.0	100.0
6	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.4	0.0	0.4	0.0	0.0	100.0	100.0	100.0
7	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
Total runs	0	0	0	0	0	0	210	252	256	223	226	211	213	0	0	0

24 Degrees North Latitude

1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	23.2	100.0	100.0	100.0	29.9	21.7	100.0	100.0	100.0
2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	5.2	100.0	100.0	100.0	8.7	6.3	100.0	100.0	100.0
3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	1.3	100.0	100.0	100.0	2.7	2.3	100.0	100.0	100.0
4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.6	100.0	100.0	100.0	0.5	1.1	100.0	100.0	100.0
5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.5	1.1	100.0	100.0	100.0
6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	0.6	100.0	100.0	100.0
7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0
Total runs	0	0	0	0	0	0	0	155	0	0	0	184	175	0	0	0

Probability Run of WPT 8 Will Exceed Duration Shown

51 Degrees North Latitude

Days	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	9.4	9.0	11.0	14.5	17.9	25.1	26.7	26.1	24.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2	1.2	0.0	2.3	2.1	3.0	2.2	5.1	5.2	5.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3	0.4	0.0	0.5	0.4	0.4	0.0	1.7	1.8	2.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Total runs	255	201	218	241	268	271	296	329	343	0	0	0	0	0	0	0

48 Degrees North Latitude

1	14.1	10.4	9.0	10.2	19.3	21.7	22.0	27.2	22.0	26.9	26.5	31.0	30.6	32.5	35.1	40.7
2	4.3	1.1	0.6	1.1	3.9	3.4	4.5	4.9	5.9	6.4	7.5	10.8	10.6	12.2	15.0	16.0
3	0.8	1.1	0.6	0.6	0.0	0.5	1.3	1.1	2.3	2.0	2.1	3.8	2.8	5.6	7.8	6.9
4	0.0	0.0	0.0	0.0	0.0	0.5	0.9	0.8	0.0	1.2	1.1	0.8	1.8	2.7	3.0	3.4
5	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.0	0.3	0.5	0.5	1.0	1.0	2.0	2.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.2	1.3	1.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4
Total runs	256	183	167	177	181	203	223	265	305	342	374	371	386	409	461	506

45 Degrees North Latitude

1	13.8	12.8	10.4	12.9	14.9	22.2	22.0	23.7	23.6	29.9	27.0	26.9	30.3	36.4	35.4	35.5
2	3.1	3.0	0.0	1.1	2.0	5.1	3.3	2.6	4.4	7.1	5.9	7.4	7.6	11.3	13.9	16.3
3	1.3	1.5	0.0	0.0	0.0	0.0	0.0	1.0	1.3	2.6	1.8	2.0	2.5	5.4	6.1	7.4
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.4	0.0	0.9	1.1	0.8	2.0	3.0	3.9
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.3	0.6	1.1	2.5	2.4
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.6	0.6	1.5	1.3
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9
Total runs	225	133	125	93	101	117	150	194	229	268	337	350	353	354	396	459

42 Degrees North Latitude

1	13.5	10.9	6.6	16.2	24.2	21.0	16.2	21.7	23.6	26.6	26.4	25.7	28.0	33.7	34.8	35.6
2	1.5	0.0	0.0	1.5	1.5	2.5	1.0	0.8	1.9	4.2	4.7	4.5	5.8	10.7	12.7	13.6
3	0.8	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.6	0.9	2.0	1.5	2.2	3.8	5.7	6.6
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.4	0.7	2.3	2.8	3.3
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.6	1.8
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5
Total runs	133	101	91	68	66	81	105	129	161	214	254	269	275	261	316	396

Probability Run of KPT 8 Will Exceed Duration Shown

39 Degrees North Latitude

Days	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	23.7	17.0	11.9	14.0	20.0	14.5	6.9	17.6	21.2	19.2	17.5	17.7	21.0	30.2	29.1	100.0
2	3.9	0.0	1.5	3.5	1.8	1.6	0.0	0.0	1.7	3.1	1.9	1.4	1.9	7.8	9.6	100.0
3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.3	0.7	1.2	2.8	3.6	100.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.6	100.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	100.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	100.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
Total runs	76	53	67	57	55	62	72	91	118	130	154	147	162	179	251	0

36 Degrees North Latitude

1	22.5	17.1	2.5	4.8	11.6	4.2	7.0	8.2	11.1	9.1	8.8	9.3	19.3	22.9	100.0	100.0
2	5.0	2.4	0.0	0.0	2.3	0.0	0.0	2.0	0.0	0.0	0.0	2.7	0.0	5.5	100.0	100.0
3	2.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	2.8	100.0	100.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
Total runs	40	41	40	42	43	48	43	49	72	66	68	75	88	109	0	0

33 Degrees North Latitude

1	100.0	10.5	0.0	0.0	3.8	0.0	4.3	14.3	3.2	10.0	4.0	3.7	2.6	12.5	100.0	100.0
2	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	100.0	100.0
3	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	100.0	100.0
4	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	100.0	100.0
5	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
6	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
7	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
Total runs	0	19	18	20	26	23	23	21	31	30	25	27	38	64	0	0

30 Degrees North Latitude

1	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
2	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
3	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
4	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
5	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
6	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
7	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
Total runs	0	0	3	6	8	9	9	5	7	6	5	4	12	0	0	0

Probability Run of WPT 8 Will Exceed Duration Shown

27 Degrees North Latitude

Days	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0	100.0	100.0
2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0	100.0	100.0
3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0	100.0	100.0
4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0	100.0	100.0
5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0	100.0	100.0
6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0	100.0	100.0
7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0	100.0	100.0
Total runs	0	0	0	0	0	0	0	2	1	1	0	1	2	0	0	0

24 Degrees North Latitude

1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Total runs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Probability Run of WPT 9 Will Exceed Duration Shown

51 Degrees North Latitude

Days	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	38.4	37.9	28.8	27.0	23.3	21.6	19.6	17.5	14.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2	18.4	15.1	10.4	7.8	5.8	4.4	4.2	3.8	2.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3	9.2	8.2	5.5	3.3	1.1	1.4	1.3	1.9	0.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4	6.0	4.7	2.7	0.9	0.2	0.5	0.0	0.4	0.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5	3.7	3.2	0.9	0.2	0.0	0.0	0.0	0.4	0.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
6	1.6	1.5	0.4	0.0	0.0	0.0	0.0	0.4	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
7	0.9	1.1	0.2	0.0	0.0	0.0	0.0	0.4	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Total runs	683	535	452	459	446	366	311	263	248	0	0	0	0	0	0	0

48 Degrees North Latitude

1	53.6	37.7	34.0	26.3	27.2	21.0	20.5	18.4	13.3	13.0	11.4	12.7	14.7	15.2	17.3	19.6
2	33.5	19.6	14.6	8.4	7.9	4.6	3.9	3.8	1.4	3.0	2.9	3.4	2.9	3.4	6.9	6.1
3	20.7	11.3	7.9	4.1	1.9	1.7	1.8	1.1	0.5	0.5	1.0	1.0	2.0	1.7	2.1	1.4
4	13.6	7.0	4.0	1.1	0.2	0.5	0.3	0.4	0.0	0.0	0.5	0.5	0.5	0.8	0.3	1.2
5	9.3	5.1	2.5	0.5	0.0	0.2	0.0	0.4	0.0	0.0	0.0	0.0	0.5	0.4	0.3	0.7
6	6.0	3.1	1.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.5	0.4	0.0	0.0
7	4.5	2.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.4	0.0	0.0
Total runs	755	586	520	441	430	410	332	261	218	200	210	205	204	237	289	423

45 Degrees North Latitude

1	64.4	41.4	41.0	29.8	30.2	25.7	23.0	18.4	16.7	13.8	14.2	14.1	11.8	14.6	17.2	25.8
2	45.5	23.5	19.6	13.2	8.4	4.8	5.4	4.1	3.3	1.7	2.5	3.8	2.4	3.4	3.9	5.8
3	34.7	14.4	11.1	5.8	3.4	1.1	1.5	2.0	0.5	0.0	0.6	1.3	0.6	1.0	0.9	2.9
4	27.4	9.7	7.0	1.7	0.4	0.2	0.0	0.3	0.0	0.0	0.0	1.3	0.6	1.0	0.6	0.8
5	20.4	6.4	4.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.0	0.3	0.4
6	15.0	4.5	2.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.5	0.0	0.0
7	11.5	3.5	2.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.5	0.0	0.0
Total runs	646	626	561	516	464	456	392	293	210	174	162	156	170	206	337	481

42 Degrees North Latitude

1	73.2	50.0	44.0	41.5	35.8	25.7	28.9	23.7	14.6	9.9	10.9	15.4	12.9	13.9	22.0	33.6
2	58.1	29.0	23.1	18.6	12.1	7.1	10.0	5.7	1.5	2.1	3.1	3.7	3.5	4.5	6.3	11.7
3	45.7	17.1	14.3	10.4	5.1	1.7	1.9	0.6	0.0	0.0	0.8	1.5	1.2	1.2	1.7	4.4
4	38.2	10.8	10.8	5.1	2.2	0.2	0.2	0.0	0.0	0.0	0.8	1.5	1.2	0.8	0.7	1.8
5	31.9	8.1	6.8	3.4	0.8	0.0	0.0	0.0	0.0	0.0	0.8	1.5	1.2	0.8	0.7	1.2
6	24.6	6.0	5.6	1.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.2	0.8	0.5	1.2
7	21.9	4.7	3.8	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.2	0.8	0.2	0.7
Total runs	508	666	575	566	506	538	470	317	205	141	128	136	170	245	413	563

Probability Run of WPT 9 Will Exceed Duration Shown

39 Degrees North Latitude

Days	Degrees West Longitude														
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70
1	80.6	63.5	48.9	46.7	44.6	32.6	31.7	23.5	14.1	12.5	8.0	6.8	12.9	21.2	28.5
2	67.5	44.5	29.7	27.6	18.7	13.3	10.8	4.6	3.4	0.8	2.7	1.4	2.4	6.9	11.5
3	57.8	29.4	18.4	15.6	10.8	6.0	3.0	0.9	0.0	0.0	0.9	1.4	1.0	2.3	4.1
4	51.1	21.6	12.4	8.9	6.8	2.1	0.7	0.0	0.0	0.0	0.9	0.7	1.0	0.6	1.9
5	45.0	18.1	9.4	6.0	3.3	0.7	0.0	0.0	0.0	0.0	0.0	0.7	1.0	0.6	1.7
6	40.3	15.3	7.2	5.0	2.7	0.2	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.3	1.1
7	34.4	12.9	5.7	4.1	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.3	0.9
Total runs	360	620	636	604	603	579	564	345	177	120	113	146	209	349	540

36 Degrees North Latitude

1	85.3	86.2	58.2	51.1	50.1	41.2	41.1	20.6	10.7	8.5	12.2	13.3	19.8	27.9	100.0
2	73.9	74.5	38.1	31.2	29.0	20.6	15.0	3.8	2.7	2.8	1.7	2.4	6.5	11.1	100.0
3	69.7	59.7	28.1	22.8	19.0	9.5	4.4	0.9	0.7	0.9	0.0	0.6	2.3	4.5	100.0
4	63.3	52.9	21.7	16.2	12.7	6.0	1.8	0.3	0.0	0.0	0.0	0.6	1.1	1.4	100.0
5	59.2	43.7	16.2	12.1	8.1	2.8	0.6	0.0	0.0	0.0	0.0	0.6	0.8	0.2	100.0
6	55.0	37.8	12.8	9.9	6.4	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	100.0
7	53.2	35.4	10.7	8.6	5.1	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
Total runs	218	325	562	619	669	718	660	340	149	106	115	166	262	441	0

33 Degrees North Latitude

1	100.0	90.6	79.9	69.7	59.9	53.7	43.5	22.5	17.6	14.3	18.3	18.4	22.5	33.3	100.0
2	100.0	82.7	62.8	49.6	39.5	28.7	18.5	3.9	4.4	5.0	5.6	4.5	9.4	12.2	100.0
3	100.0	77.0	50.8	36.6	26.3	18.5	8.5	1.4	0.7	0.8	1.4	2.0	2.8	5.4	100.0
4	100.0	70.5	40.5	29.3	18.8	12.3	4.7	0.4	0.7	0.0	0.0	1.0	1.6	2.5	100.0
5	100.0	65.5	33.7	24.0	14.4	7.5	2.6	0.0	0.0	0.0	0.0	0.5	0.6	1.4	100.0
6	100.0	60.4	27.7	18.3	11.0	4.6	1.3	0.0	0.0	0.0	0.0	0.0	0.3	1.0	100.0
7	100.0	58.3	25.5	15.2	9.1	2.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.6	100.0
Total runs	0	139	368	508	674	788	685	284	136	119	142	201	320	484	0

30 Degrees North Latitude

1	100.0	100.0	92.8	88.5	85.4	80.5	50.8	22.1	20.4	20.7	18.7	23.1	26.7	100.0	100.0
2	100.0	100.0	83.5	78.8	74.4	63.4	24.2	5.9	6.4	6.9	7.6	5.8	10.0	100.0	100.0
3	100.0	100.0	76.3	70.7	63.7	51.4	11.3	2.2	1.9	4.1	1.8	1.8	4.1	100.0	100.0
4	100.0	100.0	73.2	60.1	56.1	41.8	5.8	1.1	1.3	2.1	0.6	0.9	1.8	100.0	100.0
5	100.0	100.0	69.1	56.7	47.9	34.5	4.0	0.4	0.6	2.1	0.6	0.4	1.2	100.0	100.0
6	100.0	100.0	66.0	51.9	42.7	28.3	2.2	0.0	0.6	1.4	0.0	0.0	0.6	100.0	100.0
7	100.0	100.0	63.9	50.5	36.6	23.1	1.5	0.0	0.6	0.7	0.0	0.0	0.3	100.0	100.0
Total runs	0	0	97	208	328	519	777	271	157	145	171	225	341	0	0

Probability Run of WPT 9 Will Exceed Duration Shown

27 Degrees North Latitude

Days							Degrees West Longitude									
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	100.0	100.0	100.0	100.0	100.0	100.0	67.4	24.2	22.6	24.4	27.9	29.6	32.6	100.0	100.0	100.0
2	100.0	100.0	100.0	100.0	100.0	100.0	46.1	6.0	8.8	10.9	10.9	12.6	13.5	100.0	100.0	100.0
3	100.0	100.0	100.0	100.0	100.0	100.0	30.9	3.0	4.4	5.4	4.4	6.1	6.1	100.0	100.0	100.0
4	100.0	100.0	100.0	100.0	100.0	100.0	22.6	1.1	1.8	3.2	2.2	4.3	2.9	100.0	100.0	100.0
5	100.0	100.0	100.0	100.0	100.0	100.0	17.5	0.5	1.3	1.8	0.9	3.5	1.9	100.0	100.0	100.0
6	100.0	100.0	100.0	100.0	100.0	100.0	13.3	0.5	1.3	1.4	0.4	1.3	1.0	100.0	100.0	100.0
7	100.0	100.0	100.0	100.0	100.0	100.0	9.2	0.5	1.3	0.9	0.4	0.4	0.6	100.0	100.0	100.0
Total runs	0	0	0	0	0	0	699	368	226	221	229	230	310	0	0	0

24 Degrees North Latitude

1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	35.4	100.0	100.0	100.0	30.6	35.3	100.0	100.0	100.0
2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	13.2	100.0	100.0	100.0	14.2	15.6	100.0	100.0	100.0
3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	5.8	100.0	100.0	100.0	7.4	8.1	100.0	100.0	100.0
4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	2.5	100.0	100.0	100.0	4.5	2.6	100.0	100.0	100.0
5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	1.8	100.0	100.0	100.0	2.6	1.4	100.0	100.0	100.0
6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	1.2	100.0	100.0	100.0	1.0	0.9	100.0	100.0	100.0
7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	1.0	100.0	100.0	100.0	0.6	0.6	100.0	100.0	100.0
Total runs	0	0	0	0	0	0	0	608	0	0	0	310	346	0	0	0

Mean Probability of Exceeding Run Duration

Northwest

Days	Weather Pattern Type of Run								
	1	2	3	4	5	6	7	8	9
1	4.6	14.3	3.3	37.0	36.6	6.3	23.8	14.8	40.9
2	0.4	2.8	0.2	15.1	15.6	6.3	7.3	2.1	21.3
3	0.0	0.8	0.0	6.7	7.1	0.0	2.6	0.4	13.1
4	0.0	0.3	0.0	3.2	3.3	0.0	1.3	0.0	8.8
5	0.0	0.1	0.0	1.5	1.6	0.0	0.6	0.0	6.4
6	0.0	0.0	0.0	0.8	0.9	0.0	0.3	0.0	4.8
7	0.0	0.0	0.0	0.4	0.5	0.0	0.2	0.0	3.8
Total runs=	1978	5720	2653	14495	12689	16	8560	4325	16113

Mean Probability of Exceeding Run Duration

North Central

Days	Weather Pattern Type of Run								
	1	2	3	4	5	6	7	8	9
1	8.3	12.2	3.6	34.9	36.0	38.7	22.0	24.0	20.5
2	0.8	1.5	0.0	11.3	12.6	18.8	5.5	4.4	4.9
3	0.1	0.1	0.0	4.1	4.7	7.2	1.6	1.4	1.3
4	0.0	0.1	0.0	1.4	2.0	3.4	0.4	0.4	0.2
5	0.0	0.0	0.0	0.5	0.8	1.4	0.2	0.2	0.1
6	0.0	0.0	0.0	0.2	0.4	1.0	0.1	0.0	0.0
7	0.0	0.0	0.0	0.1	0.2	0.5	0.0	0.0	0.0
Total runs=	2625	5282	2327	11799	11804	1016	6144	3964	5241

Mean Probability of Exceeding Run Duration

Northeast

Days	Weather Pattern Type of Run								
	1	2	3	4	5	6	7	8	9
1	6.6	12.1	2.5	34.0	26.5	31.7	19.5	31.3	19.2
2	0.5	1.7	0.0	11.6	7.1	12.2	3.5	10.2	5.7
3	0.1	0.4	0.0	4.2	2.1	5.2	0.8	4.2	2.0
4	0.0	0.1	0.0	1.7	0.5	2.6	0.2	1.9	1.0
5	0.0	0.0	0.0	0.6	0.2	1.2	0.1	1.1	0.7
6	0.0	0.0	0.0	0.2	0.0	0.8	0.0	0.5	0.4
7	0.0	0.0	0.0	0.1	0.0	0.5	0.0	0.2	0.4
Total runs=	3499	7941	2849	14793	10117	4221	5074	7420	6092

Mean Probability of Exceeding Run Duration

Southwest

Days	Weather Pattern Type of Run								
	1	2	3	4	5	6	7	8	9
1	3.5	7.5	4.2	26.7	34.6	8.7	13.1	7.5	64.0
2	0.5	0.6	0.1	9.0	14.6	4.3	2.2	1.0	45.4
3	0.0	0.0	0.0	4.2	6.8	0.0	0.2	0.5	34.7
4	0.0	0.0	0.0	1.7	3.5	0.0	0.0	0.0	27.8
5	0.0	0.0	0.0	1.0	1.8	0.0	0.0	0.0	22.6
6	0.0	0.0	0.0	0.6	0.8	0.0	0.0	0.0	18.9
7	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0	16.7
Total runs	426	321	698	2798	3725	92	2009	386	6740

Mean Probability of Exceeding Run Duration

South Central

Days	Weather Pattern Type of Run								
	1	2	3	4	5	6	7	8	9
1	6.0	5.8	1.9	32.7	35.1	54.1	23.4	7.9	36.4
2	0.3	0.0	0.0	9.4	11.9	35.5	5.6	0.3	16.1
3	0.0	0.0	0.0	3.2	4.7	24.6	1.3	0.0	8.1
4	0.0	0.0	0.0	1.1	1.6	18.1	0.4	0.0	4.8
5	0.0	0.0	0.0	0.4	0.6	13.8	0.1	0.0	3.4
6	0.0	0.0	0.0	0.1	0.3	11.0	0.1	0.0	2.3
7	0.0	0.0	0.0	0.0	0.2	8.8	0.0	0.0	1.6
Total runs	1166	763	967	5898	6790	6836	5057	366	5951

Mean Probability of Exceeding Run Duration

Southeast

Days	Weather Pattern Type of Run								
	1	2	3	4	5	6	7	8	9
1	4.7	4.7	3.1	41.0	23.0	60.9	24.5	12.7	26.4
2	0.4	0.2	0.2	14.8	0.4	41.2	7.3	1.7	10.1
3	0.0	0.0	0.0	6.0	1.5	29.3	1.6	1.0	4.3
4	0.0	0.0	0.0	2.2	0.6	21.8	0.5	0.2	2.0
5	0.0	0.0	0.0	0.9	0.2	17.0	0.2	0.0	1.1
6	0.0	0.0	0.0	0.5	0.1	13.2	0.1	0.0	0.5
7	0.0	0.0	0.0	0.2	0.1	10.8	0.0	0.0	0.3
Total runs	1354	889	1201	6051	2378	7867	4429	518	4293

APPENDIX E

APPENDIX E

PERCENTAGE PROBABILITY OF WEATHER PATTERN ALTERNATION

The data listings in this appendix present the percentage probability that runs of one weather pattern type are terminated by alternation to another given type. That is, one could find the probability that a run of weather pattern Type 1 is ended by alternation to weather pattern Type 3. Nine sets of tables are presented, one for each current run weather pattern type. Summaries for the six regions are presented after the tables.

All of the tables are presented by latitude band across the region. The 10 bands are presented from north to south. Seventeen columns of data are presented in each band. The first column denotes the new weather pattern type. The other 16 columns are headed by the longitude of the grid point for which the percentage probability that the new weather pattern terminate the current run applies.

Summary of Alternation Probability									
Total Grid									
New WPT	1	2	Weather Pattern Type of Current Run						
	3	4	5	6	7	8	9		
1	0.0	3.3	1.5	2.8	6.8	8.4	5.4	1.0	4.1
2	4.5	0.0	5.1	8.9	14.1	4.1	7.4	9.6	7.7
3	11.5	6.5	0.0	1.9	4.6	5.5	3.8	1.3	5.2
4	38.9	29.5	45.3	0.0	16.3	17.7	28.5	46.6	27.9
5	8.0	8.4	14.4	44.7	0.0	6.4	18.2	14.9	20.0
6	3.8	1.1	2.5	9.2	10.6	0.0	12.8	1.6	10.6
7	11.8	7.5	6.1	9.1	16.0	29.8	0.0	5.2	18.5
8	10.0	30.8	7.2	3.4	5.7	2.1	3.1	0.0	5.9
9	11.6	12.8	17.9	20.0	26.0	25.9	20.7	19.7	0.0
Total runs =	11052	20916	10695	55835	47505	20052	31274	16979	44432

Percentage of Runs of WPT 1 that Change to WPT Shown

51 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	13.3	5.6	4.7	2.6	3.6	7.6	6.5	10.6	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	6.7	5.6	0.0	6.5	8.4	8.9	12.9	9.4	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	28.9	30.6	39.5	31.2	36.1	30.4	26.9	30.6	33.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	8.9	11.1	14.0	15.6	13.3	10.1	12.9	16.5	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	6.7	13.9	20.9	19.5	14.5	16.5	17.2	9.4	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	11.1	11.1	14.0	13.0	8.4	15.2	10.8	10.6	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	24.4	22.2	7.0	11.7	15.7	11.4	12.9	12.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs=	45	36	43	77	83	79	93	85	92	0	0	0	0	0	0	0

48 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	12.7	22.2	4.9	0.0	1.8	8.3	12.7	8.6	7.8	10.3	8.2	10.0	8.3	6.2	8.0	7.1
3	6.3	2.2	2.4	9.9	11.9	11.7	12.7	10.8	15.6	10.3	10.4	13.3	14.3	13.3	9.7	7.1
4	7.6	26.7	46.3	39.4	44.0	38.3	31.7	41.7	35.5	37.2	36.6	35.0	37.6	36.3	38.1	34.3
5	6.3	8.9	9.8	9.9	11.9	9.2	12.7	10.1	13.5	8.3	9.0	10.8	3.8	4.4	5.3	6.1
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	2.8	2.2	0.0	0.8	0.9	0.0	0.0
7	12.7	6.7	14.6	26.8	19.3	12.5	12.7	12.9	9.9	11.0	9.7	8.3	8.3	10.6	12.4	7.1
8	10.1	8.9	0.0	1.4	7.3	10.0	7.9	5.0	12.1	15.9	20.1	18.3	21.8	23.0	24.8	26.3
9	44.3	24.4	22.0	12.7	3.7	10.0	9.5	10.1	5.0	4.1	3.7	4.2	5.3	5.3	1.8	12.1
Total runs=	79	45	41	71	109	120	126	139	141	145	134	120	133	113	113	99

45 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	11.9	18.6	6.5	0.0	3.7	3.9	4.3	4.7	5.4	5.9	5.0	8.7	3.4	6.1	7.0	6.3
3	6.0	4.7	2.2	6.5	9.2	7.9	13.0	14.9	14.1	18.4	16.2	12.7	18.5	12.9	9.4	11.9
4	6.0	18.6	37.0	37.0	44.0	40.8	37.9	43.2	43.6	37.5	34.6	34.7	38.4	43.9	46.9	31.0
5	0.0	14.0	10.9	6.5	13.8	12.5	14.3	10.8	11.4	5.9	11.2	9.8	6.2	7.6	7.0	2.4
6	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.0	3.4	4.6	3.4	2.9	2.7	3.0	2.3	4.8
7	7.5	14.0	23.9	23.9	17.4	19.7	18.0	12.2	6.7	9.2	9.5	6.9	6.2	11.4	6.3	6.3
8	17.9	4.7	8.7	2.2	0.9	2.6	3.7	6.8	9.4	12.5	15.1	16.2	21.9	14.4	14.8	23.0
9	50.7	25.6	10.9	23.9	11.0	12.5	8.1	5.4	6.0	5.9	5.0	8.1	2.7	0.8	6.3	14.3
Total runs=	67	43	46	46	109	152	161	148	149	152	179	173	146	132	128	126

42 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	10.3	5.1	0.0	1.9	4.9	5.8	2.2	2.7	4.2	2.5	2.2	2.5	4.3	2.8	3.2	6.2
3	5.2	5.1	9.1	5.7	6.2	9.1	14.1	16.9	11.4	16.0	13.9	16.2	16.0	16.2	15.3	6.2
4	0.0	28.2	42.4	43.4	44.4	43.8	42.2	39.2	38.3	35.8	41.1	42.1	46.3	43.0	31.2	24.7
5	0.0	10.3	12.1	5.7	4.9	10.7	14.1	7.4	7.2	11.1	11.1	9.1	9.3	5.6	5.7	2.5
6	0.0	0.0	0.0	0.0	0.0	0.8	1.5	4.1	4.2	6.2	3.9	2.5	0.0	1.4	5.7	7.4
7	12.1	20.5	9.1	15.1	17.3	14.0	9.6	18.9	20.4	12.3	9.4	8.1	9.3	8.5	12.1	3.1
8	10.3	2.6	3.0	3.8	4.9	5.8	7.4	4.7	6.6	9.3	13.3	14.7	11.1	16.2	19.1	30.2
9	62.1	28.2	24.2	24.5	17.3	9.9	8.9	6.1	7.8	6.8	5.0	4.6	3.7	6.3	7.6	19.8
Total runs=	58	39	33	53	81	121	135	148	167	162	180	197	162	142	157	162

Percentage of Runs of WPT 1 that Change to WPT Shown

		39 Degrees North Latitude														
WPT		Degrees West Longitude														
		126	122	118	114	110	106	102	98	94	90	86	82	78	74	70
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	5.0	7.1	4.2	10.0	13.6	6.0	0.9	2.2	4.8	3.1	1.6	5.5	3.6	2.8	3.2	0.0
3	22.5	7.1	0.0	11.7	16.7	9.5	11.2	13.7	10.8	11.3	17.5	11.0	11.2	13.8	11.6	0.0
4	2.5	25.0	41.7	35.0	33.3	35.7	37.1	34.5	35.3	40.0	39.9	49.7	55.0	48.1	32.8	0.0
5	0.0	7.1	4.2	6.7	1.5	4.8	6.0	7.2	12.0	10.0	10.9	7.2	5.3	2.2	1.6	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	2.6	7.2	7.8	8.8	4.4	3.9	4.7	5.0	8.5	0.0
7	20.0	3.6	4.2	8.3	12.1	15.5	17.2	20.9	17.4	13.8	12.6	8.3	8.3	8.3	7.4	0.0
8	2.5	0.0	12.5	1.7	9.1	7.1	6.0	7.2	8.4	9.4	9.3	12.2	9.5	13.3	18.0	0.0
9	47.5	50.0	33.3	26.7	13.6	21.4	19.0	7.2	3.6	3.8	3.8	2.2	2.4	6.6	16.9	0.0
Total runs=	40	28	24	60	66	84	116	139	167	160	183	181	169	181	189	0

		36 Degrees North Latitude														
WPT		Degrees West Longitude														
		126	122	118	114	110	106	102	98	94	90	86	82	78	74	70
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	2.4	0.0	0.0	2.5	0.8	2.6	2.7	3.4	4.4	2.0	1.8	0.0	0.0
3	9.1	14.3	18.2	22.0	18.6	7.2	12.3	12.7	10.4	11.6	14.3	9.6	9.9	12.1	0.0	0.0
4	0.0	4.8	22.7	22.0	25.6	43.5	25.4	38.9	39.1	53.4	45.6	55.1	58.3	46.7	0.0	0.0
5	0.0	0.0	0.0	17.1	16.3	7.2	13.9	11.9	7.0	5.5	9.5	4.4	3.3	1.2	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	3.3	5.6	7.0	8.2	7.5	6.6	4.0	4.2	0.0	0.0
7	9.1	0.0	4.5	4.9	4.7	17.4	16.4	12.7	16.5	11.0	10.9	10.3	11.3	13.3	0.0	0.0
8	13.6	14.3	9.1	9.8	9.3	2.9	4.9	6.3	7.8	4.1	6.1	7.4	7.9	10.3	0.0	0.0
9	68.2	66.7	45.5	22.0	25.6	21.7	21.3	11.1	9.6	3.4	2.7	2.2	3.3	10.3	0.0	0.0
Total runs=	22	21	22	41	43	69	122	126	115	146	147	136	151	165	0	0

		33 Degrees North Latitude														
WPT		Degrees West Longitude														
		126	122	118	114	110	106	102	98	94	90	86	82	78	74	70
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.2	2.2	2.1	1.9	1.9	0.9	0.8	0.0	0.0
3	0.0	7.1	14.3	17.4	6.3	3.8	10.8	14.1	15.2	10.6	9.3	10.5	10.4	9.8	0.0	0.0
4	0.0	0.0	7.1	8.7	25.0	30.2	29.7	48.2	57.6	51.1	58.3	56.2	60.9	27.0	0.0	0.0
5	0.0	0.0	0.0	8.7	18.8	7.5	16.2	9.4	7.6	12.8	5.6	1.9	0.9	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	4.1	5.9	5.4	7.4	9.3	8.6	6.1	12.3	0.0	0.0
7	0.0	0.0	0.0	4.3	6.3	15.1	17.6	10.6	6.5	12.8	11.1	15.2	7.0	12.3	0.0	0.0
8	0.0	7.1	7.1	4.3	3.1	3.8	5.4	2.4	1.1	2.1	2.8	1.9	5.2	10.7	0.0	0.0
9	0.0	85.7	71.4	56.5	40.6	39.6	14.9	8.2	4.3	1.1	1.9	3.8	8.7	27.0	0.0	0.0
Total runs=	0	14	14	23	32	53	74	85	92	94	108	105	115	122	0	0

		30 Degrees North Latitude														
WPT		Degrees West Longitude														
		126	122	118	114	110	106	102	98	94	90	86	82	78	74	70
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.5	0.0	0.0	0.0
3	0.0	0.0	0.0	12.5	9.5	5.3	4.9	0.0	20.8	7.5	7.8	3.4	6.1	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	4.8	15.8	17.1	33.3	41.7	58.2	50.6	65.5	50.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	9.5	5.3	19.5	21.2	6.3	4.5	3.9	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1	16.7	11.9	16.9	17.2	15.2	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	4.8	7.9	14.6	3.0	8.3	13.4	14.3	10.3	10.6	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	4.8	5.3	0.0	0.0	0.0	0.0	1.3	0.0	3.0	0.0	0.0	0.0
9	0.0	0.0	100.0	87.5	66.7	60.5	43.9	30.3	6.3	4.5	3.9	3.4	13.6	0.0	0.0	0.0
Total runs=	0	0	5	8	21	38	41	33	48	67	77	58	66	0	0	0

Percentage of Runs of WPT 1 that Change to WPT Shown

27 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0	7.9	6.9	4.3	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	14.3	24.0	51.4	62.8	52.6	51.7	43.5	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	7.1	4.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0	8.6	18.6	23.7	20.7	17.4	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	8.6	11.6	2.6	10.3	8.7	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	78.6	48.0	20.0	7.0	13.2	10.3	26.1	0.0	0.0	0.0
Total runs=	0	0	0	0	0	0	14	25	35	43	38	29	23	0	0	0

24 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	16.7	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	37.5	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	0.0	0.0	0.0	0.0	12.5	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	0.0	0.0	0.0	16.7	50.0	0.0	0.0	0.0
Total runs=	0	0	0	0	0	0	0	10	0	0	0	6	8	0	0	0

Percentage of Runs of WPT 2 that Change to WPT Shown

WPT	51 Degrees North Latitude															
	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	1.8	0.9	0.0	0.5	1.8	2.8	1.5	2.6	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1.8	1.8	3.6	1.9	2.5	4.5	6.4	4.9	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	13.9	27.0	32.4	30.1	27.3	32.2	31.5	30.6	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	10.5	13.5	8.4	15.7	15.1	13.6	10.9	8.8	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	9.2	12.9	20.0	17.1	14.0	11.3	9.7	6.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	28.0	22.1	17.8	21.8	27.7	28.2	32.4	40.0	36.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	34.8	21.8	17.8	13.0	11.5	7.3	7.6	6.2	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs=	446	326	225	216	278	354	330	385	427	0	0	0	0	0	0	0

48 Degrees North Latitude																
1	3.0	2.6	0.4	0.0	0.5	2.2	1.6	3.5	3.4	2.2	3.7	2.4	3.1	2.9	3.6	2.2
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	2.9	3.2	3.9	2.2	5.4	5.1	6.2	5.5	7.0	5.9	5.1	6.4	5.1	4.5	2.7	4.3
4	7.7	24.2	32.9	37.0	36.5	36.4	32.5	33.5	29.8	31.8	30.9	31.0	33.9	32.7	29.8	22.7
5	3.3	13.2	8.3	9.2	9.5	11.0	10.4	9.0	11.2	11.7	8.8	9.1	7.8	7.2	3.0	3.2
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.7	0.7	0.9	0.7	0.5	1.9
7	4.4	9.0	17.1	22.3	16.7	14.3	12.3	7.9	5.5	3.7	3.5	5.5	4.0	2.7	3.4	3.2
8	10.0	23.9	19.3	17.9	20.7	23.2	28.6	33.5	34.5	37.7	40.4	36.5	39.0	42.8	48.4	50.0
9	41.6	23.9	18.0	11.4	10.8	7.7	8.4	7.0	8.4	6.6	7.0	8.4	6.2	6.5	8.6	12.3
Total runs=	432	310	228	184	222	272	308	343	383	409	431	452	449	444	440	462

45 Degrees North Latitude																
1	3.0	1.9	2.4	0.7	0.7	2.7	3.4	4.5	4.8	3.9	3.9	6.3	4.1	2.5	4.2	3.1
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	4.0	5.2	2.4	1.4	5.6	4.8	7.6	9.6	8.6	4.5	8.6	5.5	6.6	6.2	7.3	4.4
4	1.0	20.7	28.2	30.1	38.7	35.1	34.5	32.3	27.9	34.8	23.0	27.0	29.7	30.4	30.1	20.5
5	1.5	11.7	8.8	7.5	9.2	10.1	10.1	8.9	12.4	10.4	7.8	7.6	8.5	7.2	3.4	3.1
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	0.3	1.8	1.2	0.7	1.5	2.1
7	5.0	8.5	8.8	15.8	14.8	14.9	13.4	9.3	7.6	4.8	4.7	6.5	5.1	4.7	4.9	4.9
8	34.2	22.1	21.8	17.1	19.7	23.9	24.4	25.4	29.5	35.4	44.9	40.6	38.7	42.6	40.8	48.1
9	51.3	30.0	27.6	27.4	11.3	8.5	6.7	10.0	8.9	5.1	6.9	4.8	6.1	5.5	7.8	13.8
Total runs=	199	213	170	146	142	188	238	291	315	336	361	397	411	401	409	385

42 Degrees North Latitude																
1	4.4	1.6	1.8	0.0	2.4	0.0	1.7	3.6	4.9	5.8	4.0	6.3	3.9	4.7	4.0	5.6
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	5.1	5.5	2.7	1.6	4.0	4.2	3.9	6.2	9.8	7.0	9.0	7.8	7.7	8.7	9.6	4.8
4	0.0	13.3	29.7	30.6	32.3	36.8	34.8	31.3	35.6	32.3	29.1	30.1	32.4	37.0	26.6	17.9
5	0.0	5.5	6.3	8.1	8.9	15.3	15.7	10.8	12.4	12.5	10.8	8.2	6.3	5.0	2.3	1.2
6	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.4	1.2	2.2	0.9	1.8	1.2	2.3	3.6
7	3.7	10.9	6.3	9.7	20.2	11.1	8.4	10.3	4.9	6.2	5.4	6.9	5.1	5.2	4.7	6.8
8	25.7	24.2	26.1	23.4	16.1	18.8	21.3	28.7	27.6	30.7	35.6	36.1	37.5	32.9	40.5	44.6
9	61.0	39.1	27.0	26.6	16.1	13.2	14.0	9.2	4.4	4.3	4.0	3.8	5.4	5.2	10.0	15.5
Total runs=	136	128	111	124	124	144	178	195	225	257	278	319	336	343	301	251

Percentage of Runs of WPT 2 that Change to WPT Shown

39 Degrees North Latitude																
WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	1.7	2.9	1.2	5.2	2.2	1.9	0.7	1.2	4.5	4.4	7.4	6.3	4.5	2.4	3.6	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	5.2	4.3	8.5	8.2	4.4	3.8	6.6	7.2	10.8	13.1	10.6	14.3	11.9	10.2	8.9	0.0
4	0.0	14.3	20.7	19.6	27.5	35.6	25.0	34.7	39.2	37.2	41.2	38.4	41.2	38.3	23.7	0.0
5	0.0	1.4	3.7	7.2	14.3	9.6	22.8	11.4	8.0	8.7	9.7	7.2	6.6	2.4	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.3	1.1	2.3	2.5	2.1	4.4	4.7	0.0
7	5.2	8.6	3.7	7.2	4.4	11.5	10.3	10.2	5.7	6.0	3.7	2.5	3.7	3.4	4.1	0.0
8	27.6	17.1	29.3	25.8	17.6	18.3	19.1	23.4	23.3	25.7	22.7	24.5	26.7	29.6	40.8	0.0
9	60.3	51.4	32.9	26.8	29.7	19.2	15.4	10.8	6.3	3.8	2.3	4.2	3.3	9.2	14.2	0.0
Total runs=	58	70	82	97	91	104	136	167	176	183	216	237	243	206	169	0
36 Degrees North Latitude																
1	5.6	4.2	0.0	2.4	0.0	1.9	1.3	3.4	4.5	2.6	9.2	6.6	7.8	9.8	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	6.1	7.3	2.6	0.0	5.1	4.5	15.5	11.2	9.2	16.6	20.3	10.9	0.0	0.0
4	0.0	4.2	6.1	14.6	17.9	24.1	20.3	34.8	40.9	48.3	44.7	39.7	39.1	27.2	0.0	0.0
5	0.0	0.0	0.0	4.9	2.6	11.1	21.5	14.6	8.2	8.6	7.2	6.0	2.3	1.1	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.7	3.4	4.6	3.3	3.1	5.4	0.0	0.0
7	0.0	4.2	3.0	4.9	5.1	14.8	6.3	5.6	4.5	8.6	5.3	9.3	6.3	4.3	0.0	0.0
8	27.8	33.3	27.3	24.4	25.6	22.2	20.3	21.3	20.9	12.9	15.8	15.2	18.0	30.4	0.0	0.0
9	66.7	54.2	57.6	41.5	46.2	25.9	25.3	13.5	2.7	4.3	3.9	3.3	3.1	10.9	0.0	0.0
Total runs=	18	24	33	41	39	54	79	89	110	116	152	151	128	92	0	0
33 Degrees North Latitude																
1	0.0	0.0	7.7	0.0	0.0	3.6	2.2	6.1	5.8	11.1	1.1	10.5	7.1	8.6	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	9.5	3.6	8.9	10.2	13.5	6.9	19.6	19.8	14.3	14.3	0.0
4	0.0	0.0	0.0	18.8	19.0	10.7	15.6	32.7	34.6	48.6	46.7	41.9	38.1	22.9	0.0	0.0
5	0.0	0.0	7.7	6.3	14.3	14.3	22.2	14.3	7.7	6.9	6.5	3.5	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	9.7	10.9	10.5	14.3	14.3	0.0	0.0
7	0.0	0.0	7.7	0.0	4.8	14.3	2.2	10.2	11.5	4.2	3.3	5.8	11.9	8.6	0.0	0.0
8	0.0	27.3	15.4	12.5	19.0	17.9	17.8	8.2	15.4	6.9	5.4	7.0	9.5	17.1	0.0	0.0
9	0.0	72.7	61.5	62.5	33.3	35.7	31.1	18.4	7.7	5.6	6.5	1.2	4.8	14.3	0.0	0.0
Total runs=	0	11	13	16	21	28	45	49	52	72	92	86	42	35	0	0
30 Degrees North Latitude																
1	0.0	0.0	0.0	0.0	11.1	9.1	4.2	4.0	0.0	5.3	0.0	6.1	7.7	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	11.1	0.0	4.2	8.0	22.2	13.2	14.3	27.3	7.7	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	27.3	12.5	20.0	16.7	31.6	40.5	24.2	46.2	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	16.7	20.0	8.3	2.6	2.4	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	2.8	10.5	26.2	6.1	7.7	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	12.5	8.0	8.3	13.2	9.5	12.1	23.1	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	9.1	0.0	0.0	8.3	2.6	0.0	6.1	0.0	0.0	0.0	0.0
9	0.0	0.0	100.0	100.0	77.8	54.5	50.0	36.0	33.3	21.1	7.1	18.2	7.7	0.0	0.0	0.0
Total runs=	0	0	1	2	9	11	24	25	36	38	42	33	13	0	0	0

Percentage of Runs of WPT 2 that Change to WPT Shown

27 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	28.6	0.0	0.0	20.0	0.0	0.0	25.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7	40.0	14.3	40.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	14.3	0.0	25.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	28.6	30.0	50.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	14.3	25.0	16.7	0.0	14.3	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	57.1	50.0	16.7	20.0	28.6	30.0	0.0	0.0	0.0	0.0
Total runs	0	0	0	0	0	0	7	4	6	10	7	10	4	0	0	0

24 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0
Total runs	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0

Percentage of Runs of WPT 3 that Change to WPT Shown

51 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	2.1	3.2	2.5	0.0	0.0	1.0	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	9.8	10.6	4.8	5.1	11.8	14.8	15.3	8.8	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	29.4	40.4	41.3	41.8	47.4	45.7	42.9	51.0	48.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	15.7	19.1	15.9	17.7	9.2	18.5	14.3	12.7	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	9.8	12.8	15.9	15.2	13.2	7.4	10.2	4.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	3.9	2.1	7.9	8.9	9.2	6.2	8.2	8.8	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	31.4	12.8	11.1	8.9	9.2	7.4	8.2	9.8	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs	51	47	63	79	76	81	98	102	101	0	0	0	0	0	0	0

48 Degrees North Latitude

1	0.0	1.5	2.7	0.0	0.0	2.5	0.8	0.0	0.8	3.6	0.0	0.0	0.0	1.1	2.4	0.0
2	14.0	15.4	8.2	3.6	6.5	10.7	7.8	7.4	12.3	11.8	13.9	6.6	4.3	11.7	6.0	2.9
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	14.0	49.2	47.9	51.8	51.4	42.1	44.5	35.2	45.9	47.3	48.5	48.1	53.2	44.7	51.8	41.4
5	3.5	13.8	11.0	15.7	11.2	14.9	22.7	29.5	21.3	11.8	18.8	22.6	22.3	21.3	12.0	14.3
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
7	5.8	1.5	9.6	12.0	12.1	10.7	10.9	9.0	6.6	3.6	2.0	2.8	1.1	2.1	7.2	4.3
8	8.1	0.0	2.7	7.2	4.7	8.3	5.5	10.7	9.0	16.4	11.9	16.0	12.8	16.0	10.8	14.3
9	54.7	18.5	17.8	9.6	14.0	10.7	7.8	8.2	4.1	5.5	5.0	3.8	6.4	3.2	9.6	20.0
Total runs	86	65	73	83	107	121	128	122	122	110	101	106	94	94	83	70

45 Degrees North Latitude

1	2.7	2.9	0.0	0.9	1.9	0.0	2.5	3.1	0.7	2.9	4.1	1.4	3.0	1.6	0.0	0.0
2	7.3	7.7	2.2	1.9	6.6	4.5	4.2	6.2	7.0	4.3	6.2	10.7	11.1	11.2	8.3	3.8
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	6.4	40.4	54.9	65.4	53.8	45.5	48.7	43.4	52.4	48.6	46.6	50.0	51.1	54.4	54.1	40.0
5	2.7	12.5	12.1	12.1	13.2	15.5	15.1	21.7	15.4	22.5	19.9	17.9	15.6	13.6	5.5	4.8
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.7	1.4	0.0	0.0	3.7	6.7
7	3.6	1.9	4.4	8.4	9.4	13.6	15.1	10.1	10.5	5.1	2.7	7.1	7.4	4.8	3.7	2.9
8	10.9	3.8	2.2	0.0	3.8	3.6	4.2	7.0	9.1	9.4	14.4	9.3	9.6	6.4	12.8	22.9
9	66.4	30.8	24.2	11.2	11.3	17.3	10.1	8.5	4.2	7.2	5.5	2.1	2.2	8.0	11.9	19.0
Total runs	110	104	91	107	106	110	119	129	143	138	146	140	135	125	109	105

42 Degrees North Latitude

1	2.4	0.0	1.0	0.0	0.0	2.1	4.2	1.5	3.0	1.3	3.9	3.1	6.3	2.9	1.3	0.9
2	3.2	4.6	1.0	1.1	3.6	6.2	2.1	5.4	4.5	5.7	2.6	8.5	7.8	7.4	7.0	3.6
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.8	38.0	46.0	48.9	54.8	41.2	42.1	40.8	51.1	46.5	51.6	49.2	52.3	58.1	51.0	36.4
5	0.8	13.9	17.0	14.8	19.0	17.5	20.0	20.8	20.3	23.6	21.9	14.6	7.0	13.2	3.8	2.7
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.6	1.5	2.3	0.7	6.4	6.4
7	9.5	3.7	4.0	9.1	7.1	10.3	16.8	11.5	5.3	4.5	2.6	3.8	3.1	2.2	3.2	2.7
8	4.0	3.7	1.0	1.1	4.8	2.1	3.2	6.9	9.0	14.0	15.5	13.1	14.1	10.3	13.4	25.5
9	79.4	36.1	30.0	25.0	10.7	20.6	11.6	11.5	6.8	4.5	1.3	6.2	7.0	5.1	14.0	21.8
Total runs	126	108	100	88	84	97	95	130	133	157	155	130	128	136	157	110

Percentage of Runs of WPT 3 that Change to WPT Shown

39 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	3.0	0.0	1.3	1.4	1.4	1.4	0.0	2.7	2.4	0.0	3.4	0.7	0.7	2.7	1.3	0.0
2	2.0	3.0	5.2	4.1	4.3	2.8	2.0	4.5	1.6	3.0	6.1	5.9	6.4	5.4	3.9	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	23.2	36.4	35.1	50.0	49.3	43.0	40.2	50.0	54.3	53.7	66.2	59.6	57.1	40.3	0.0
5	0.0	14.1	18.2	28.4	11.4	16.9	21.0	17.9	19.4	19.5	14.3	12.5	10.6	6.1	2.6	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.2	3.7	5.4	2.2	2.1	6.8	9.1	0.0
7	2.0	0.0	2.6	6.8	5.7	8.5	15.0	16.1	8.9	6.1	2.7	2.9	6.4	3.4	3.2	0.0
8	11.1	0.0	0.0	2.7	2.9	2.8	5.0	5.4	6.5	8.5	11.6	7.4	9.9	5.4	14.9	0.0
9	81.8	59.6	36.4	21.6	24.3	18.3	14.0	12.5	8.1	4.9	2.7	2.2	4.3	12.9	24.7	0.0
Total runs=	99	99	77	74	70	71	100	112	124	164	147	136	141	147	154	0

36 Degrees North Latitude

1	1.7	0.0	0.0	0.0	0.0	0.0	2.3	2.6	0.0	0.0	1.7	2.3	2.2	2.7	0.0	0.0
2	1.7	0.0	0.0	3.0	4.9	2.8	0.0	2.6	2.7	2.9	4.1	2.3	1.5	2.7	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	5.7	27.8	30.3	31.7	46.5	32.2	44.7	49.1	56.2	68.6	68.5	53.7	51.4	0.0	0.0
5	0.0	5.7	12.7	21.2	22.0	11.3	28.7	30.3	31.8	21.0	16.5	12.3	4.5	4.1	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.9	2.9	2.5	3.1	7.5	9.6	0.0	0.0
7	1.7	0.0	0.0	1.5	4.9	15.5	10.3	3.9	5.5	5.7	0.0	3.1	4.5	4.1	0.0	0.0
8	6.9	5.7	3.8	3.0	0.0	1.4	1.1	1.3	6.4	8.6	4.1	3.8	9.7	8.2	0.0	0.0
9	87.9	83.0	55.7	40.9	36.6	22.5	25.3	11.8	3.6	2.9	2.5	4.6	16.4	17.1	0.0	0.0
Total runs=	58	53	79	66	41	71	87	76	110	105	121	130	134	146	0	0

33 Degrees North Latitude

1	0.0	2.4	0.0	2.0	0.0	0.0	2.7	0.0	0.0	2.7	1.1	1.9	1.9	1.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	2.0	0.0	3.4	1.3	1.4	2.2	1.9	2.9	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	13.6	23.5	18.8	32.0	26.7	44.1	52.6	64.4	73.3	70.9	45.7	47.1	0.0	0.0
5	0.0	0.0	6.8	15.7	18.8	6.0	29.3	25.4	29.5	20.5	11.1	4.9	4.8	1.9	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.7	3.8	4.1	3.3	5.8	6.7	11.5	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	14.0	10.7	8.5	5.1	4.1	5.6	4.9	5.7	3.8	0.0	0.0
8	0.0	9.5	0.0	2.0	6.3	2.0	0.0	1.7	2.6	1.4	1.1	2.9	5.7	6.7	0.0	0.0
9	0.0	88.1	79.5	56.9	56.3	44.0	29.3	15.3	5.1	1.4	2.2	6.8	26.7	27.9	0.0	0.0
Total runs=	0	42	44	51	32	50	75	59	78	73	90	103	105	104	0	0

30 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	12.1	0.0	15.4	18.8	41.9	62.5	59.1	79.2	72.4	44.8	0.0	0.0	0.0
5	0.0	0.0	0.0	6.1	8.7	11.5	31.3	32.6	10.9	9.1	6.3	1.7	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	15.6	16.7	6.3	10.3	19.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	4.3	19.2	12.5	0.0	6.3	3.0	2.1	3.4	6.9	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	100.0	81.8	87.0	53.8	37.5	18.6	4.7	10.6	6.3	10.3	29.3	0.0	0.0	0.0
Total runs=	0	0	29	33	23	26	16	43	64	66	48	58	58	0	0	0

Percentage of Runs of WPT 3 that Change to WPT Shown

27 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	36.4	53.3	47.6	38.7	31.3	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	11.1	33.3	9.1	3.3	14.3	3.2	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	11.1	4.8	22.7	16.7	28.6	38.7	31.3	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	15.9	0.0	0.0	0.0	9.4	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	77.8	23.8	13.6	26.7	9.5	19.4	28.1	0.0	0.0	0.0
Total runs=	0	0	0	0	0	0	9	21	44	30	21	31	32	0	0	0

24 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.6	50.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.3	0.0	0.0	0.0	35.7	33.3	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	0.0	0.0	0.0	7.1	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.4	0.0	0.0	0.0	28.6	16.7	0.0	0.0	0.0
Total runs=	0	0	0	0	0	0	0	11	0	0	0	14	6	0	0	0

Percentage of Runs of WPT 4 that Change to WPT Shown

WPT	51 Degrees North Latitude															
	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	1.2	0.6	2.5	3.4	3.2	2.9	2.5	2.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	16.0	13.7	11.2	7.4	8.3	11.3	10.9	14.1	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	2.0	1.7	1.8	3.0	2.4	1.5	2.1	1.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	25.2	42.1	34.2	34.6	43.2	50.8	55.0	58.9	59.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7.4	7.3	14.1	16.2	12.7	9.3	10.4	7.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	5.7	5.1	8.2	6.4	5.4	5.9	5.6	5.6	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	42.5	29.6	28.1	29.0	24.8	18.1	13.5	9.8	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs=	405	534	609	610	592	592	607	625	634	0	0	0	0	0	0	0

48 Degrees North Latitude																
1	3.8	1.6	1.2	4.5	4.2	4.5	4.1	4.9	3.6	3.2	3.6	1.7	3.8	2.8	4.1	3.8
2	7.6	11.3	7.7	8.8	7.0	8.5	10.2	12.8	13.2	15.1	17.4	17.5	19.6	18.3	18.8	23.7
3	1.5	2.5	2.5	2.3	3.6	2.7	2.4	2.4	2.5	1.7	0.7	1.1	1.6	1.6	2.4	1.6
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	13.6	35.9	48.0	32.6	36.1	44.0	53.2	56.0	57.9	57.2	54.2	57.1	51.8	49.0	39.7	26.0
6	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.3	1.0	2.1	4.1	8.3
7	3.0	6.8	9.4	19.1	16.8	12.3	11.3	9.6	7.2	7.3	7.3	6.5	5.9	5.7	5.7	5.4
8	3.4	3.9	4.0	7.9	5.1	4.0	3.9	3.7	6.2	5.3	7.0	5.8	6.8	8.7	10.2	10.8
9	67.0	38.1	27.3	24.8	27.1	23.9	14.9	10.7	9.2	10.2	9.7	10.0	9.4	11.8	15.0	20.5
Total runs=	264	515	598	648	642	627	637	657	642	657	671	657	679	668	665	557

45 Degrees North Latitude																
1	1.7	1.2	1.7	1.3	6.3	5.8	4.3	2.9	3.0	4.1	3.6	3.2	2.5	3.9	4.3	4.9
2	3.3	6.4	6.1	5.2	6.6	6.7	6.3	11.0	10.0	12.9	14.6	17.5	18.0	17.7	19.8	18.1
3	5.0	3.5	3.1	3.2	3.2	2.4	2.4	1.4	3.7	2.4	2.0	1.7	0.7	1.2	0.7	1.6
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	9.1	34.4	49.4	51.3	33.1	36.3	50.2	59.5	62.6	60.2	58.3	55.2	56.7	46.4	31.6	19.7
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9	0.9	1.9	2.7	5.8	11.4	15.2
7	1.7	6.6	6.8	11.4	21.0	20.4	14.9	10.4	7.6	8.3	8.2	7.4	6.1	7.9	4.9	5.6
8	0.8	2.0	1.7	2.7	2.9	2.2	2.9	4.0	4.3	4.4	5.0	6.5	5.7	6.7	9.5	9.4
9	74.5	45.9	31.4	24.8	26.9	26.2	18.9	11.0	8.2	6.9	7.4	6.6	7.5	10.4	17.7	25.6
Total runs=	121	488	545	596	662	626	623	656	669	666	645	647	667	672	673	554

42 Degrees North Latitude																
1	0.0	0.7	1.6	2.0	4.0	4.8	3.2	3.1	3.7	3.2	3.3	3.4	3.7	3.2	4.7	4.1
2	6.7	2.8	3.6	3.9	3.9	3.9	4.2	5.9	9.7	11.1	12.6	14.9	15.3	17.7	17.3	11.4
3	0.0	3.0	3.6	2.4	3.0	3.1	2.0	2.5	2.5	3.2	2.5	1.1	1.2	1.4	1.5	1.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	32.9	50.2	54.5	43.4	31.9	48.8	62.0	66.2	64.1	61.9	58.8	55.3	38.4	17.4	6.7
6	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.3	1.2	2.2	2.7	4.1	6.5	13.7	21.1	27.8
7	0.0	5.8	5.9	9.4	17.6	24.8	15.0	11.9	8.3	7.3	6.7	7.4	7.4	7.4	7.0	6.5
8	0.0	1.2	1.2	0.2	1.0	1.5	2.4	2.0	2.8	3.4	4.8	4.7	4.6	4.6	6.6	9.5
9	93.3	53.7	33.8	27.5	27.0	29.9	24.3	12.3	5.7	5.4	5.5	5.6	6.1	13.5	24.3	32.9
Total runs=	30	434	494	541	597	608	592	611	651	647	641	638	675	716	654	507

Percentage of Runs of WPT 4 that Change to WPT Shown

39 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.4	1.1	0.7	2.4	3.8	2.6	2.5	2.8	3.7	3.3	3.6	4.0	5.8	5.0	0.0
2	0.0	1.6	2.4	1.5	2.0	3.4	2.6	4.9	7.3	8.2	10.7	11.7	12.8	11.7	12.0	0.0
3	0.0	6.2	1.3	1.5	1.6	2.9	1.2	2.2	1.4	2.3	3.1	1.7	1.5	1.9	2.1	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	18.6	44.4	60.1	57.6	30.4	46.7	66.2	71.6	67.7	60.6	58.2	43.4	18.0	7.3	0.0
6	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.4	2.0	4.0	5.7	7.9	15.7	27.6	30.9	0.0
7	0.0	7.0	5.3	6.1	8.4	25.2	15.2	10.5	8.9	8.3	8.8	7.6	10.7	9.5	5.2	0.0
8	0.0	1.2	1.3	0.5	0.2	0.7	1.8	1.3	1.8	2.8	2.4	2.3	2.1	4.6	5.4	0.0
9	100.0	65.1	44.1	29.7	27.7	33.6	29.8	12.1	4.3	3.0	5.4	7.0	10.0	20.9	32.1	0.0
Total runs	7	258	376	411	509	556	507	554	564	600	614	658	682	693	560	0

36 Degrees North Latitude

1	0.0	0.0	1.8	0.8	0.2	2.7	1.5	1.2	1.2	3.4	2.7	2.7	2.8	5.2	0.0	0.0
2	0.0	1.4	0.0	0.8	1.0	1.4	0.7	2.7	4.0	4.3	7.5	7.5	8.5	5.8	0.0	0.0
3	0.0	0.0	2.6	0.4	0.5	2.3	1.2	1.0	1.0	1.6	2.1	2.5	2.3	3.4	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	4.2	31.6	61.4	59.3	30.8	48.0	73.9	76.3	66.5	57.8	47.9	25.1	7.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.5	5.2	10.7	13.2	17.3	34.7	41.7	0.0	0.0
7	0.0	0.0	2.6	2.5	2.7	14.5	11.8	5.6	6.8	8.1	10.7	13.4	10.7	7.2	0.0	0.0
8	0.0	0.0	0.4	0.0	0.0	0.2	1.0	1.0	0.6	1.1	1.4	1.5	2.0	2.7	0.0	0.0
9	100.0	94.4	61.0	34.0	36.2	48.1	34.8	11.1	4.8	4.3	4.6	7.2	14.0	27.0	0.0	0.0
Total runs	3	71	228	241	403	516	408	486	497	559	561	597	614	556	0	0

33 Degrees North Latitude

1	0.0	0.0	0.7	0.0	0.0	1.1	0.0	0.7	0.4	1.4	1.8	1.4	3.2	3.4	0.0	0.0
2	0.0	0.0	0.0	1.2	1.1	0.2	0.7	1.0	2.9	2.8	4.0	5.7	4.4	2.8	0.0	0.0
3	0.0	0.0	0.7	1.2	0.4	0.7	1.0	0.2	0.2	1.4	1.0	1.0	2.5	1.1	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	8.8	29.4	51.1	27.2	54.3	74.6	70.9	60.2	51.1	34.8	12.9	1.7	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.5	5.2	6.7	13.9	20.9	24.1	36.0	47.8	52.8	0.0	0.0
7	0.0	0.0	4.4	3.7	1.1	8.6	4.1	6.2	5.1	7.7	9.9	8.9	8.0	4.5	0.0	0.0
8	0.0	0.0	1.5	0.6	0.0	0.2	0.7	0.0	0.0	0.0	0.6	1.0	1.3	2.5	0.0	0.0
9	0.0	100.0	83.9	63.8	46.2	61.5	34.0	10.4	6.6	5.5	7.4	11.2	19.9	31.1	0.0	0.0
Total runs	0	3	137	163	264	441	291	402	454	493	497	508	473	354	0	0

30 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.5	0.5	1.0	1.3	1.6	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.9	2.7	2.3	2.6	3.7	1.6	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.5	0.8	1.0	0.5	1.3	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	6.1	12.8	11.0	46.1	69.0	40.6	37.8	33.3	18.2	3.8	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	5.5	14.5	36.4	44.4	48.1	53.2	63.1	0.0	0.0	0.0
7	0.0	0.0	0.0	3.7	2.1	4.4	1.6	5.5	10.6	8.2	4.1	7.9	6.0	0.0	0.0	0.0
8	0.0	0.0	0.0	1.2	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	100.0	89.0	85.1	82.4	45.3	10.1	8.7	6.1	9.8	15.3	22.7	0.0	0.0	0.0
Total runs	0	0	16	82	94	136	128	345	404	392	387	380	317	0	0	0

Percentage of Runs of WPT 4 that Change to WPT Shown

WPT	27 Degrees North Latitude															
	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	2.5	0.9	0.6	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.4	2.3	0.4	0.0	0.6	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.4	0.9	1.8	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	29.4	47.0	22.6	12.1	9.2	6.5	1.8	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	5.9	30.2	55.1	67.3	68.5	69.6	71.6	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	5.9	11.2	9.4	6.2	5.0	4.8	1.8	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	58.8	11.2	9.8	10.9	13.9	17.4	21.9	0.0	0.0	0.0
Total runs#	0	0	0	0	0	0	34	268	287	257	238	230	169	0	0	0

WPT	24 Degrees North Latitude															
	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.5	0.0	0.0	0.0	76.8	85.9	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	0.0	0.0	0.0	2.0	1.4	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.7	0.0	0.0	0.0	16.2	12.7	0.0	0.0	0.0
Total runs#	0	0	0	0	0	0	0	194	0	0	0	99	71	0	0	0

Percentage of Runs of WPT 5 that Change to WPT Shown

51 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	3.5	3.1	2.3	3.5	2.7	3.8	7.2	4.4	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	26.4	20.7	11.0	12.9	16.7	23.3	23.0	26.9	32.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	3.0	2.1	3.4	4.1	1.8	3.5	5.2	6.6	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	8.4	15.7	26.6	20.9	18.1	16.8	18.3	17.8	14.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7.6	11.4	16.9	23.1	23.8	22.1	16.3	15.5	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	6.5	8.9	9.0	7.6	11.0	11.0	13.1	13.5	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	44.4	38.2	30.9	27.9	25.8	19.6	17.0	15.3	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs=	367	484	444	459	546	602	601	594	611	0	0	0	0	0	0	0

48 Degrees North Latitude

1	3.4	3.8	2.9	2.5	4.7	7.1	8.5	8.8	11.5	12.2	10.9	10.4	9.5	8.8	7.3	8.1
2	19.5	19.4	10.9	9.5	13.2	17.2	18.9	21.7	27.7	29.4	31.2	33.4	32.0	31.9	33.6	25.0
3	4.4	4.3	3.8	4.2	2.6	5.7	5.4	6.0	5.1	6.4	5.9	5.3	4.2	6.0	5.1	1.4
4	2.0	15.1	24.7	27.0	21.5	16.5	17.7	20.4	16.3	15.4	15.4	14.9	14.3	17.8	11.9	11.5
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5	3.1	4.5	4.6	5.6	7.5	9.5
7	7.8	11.2	17.2	18.7	24.9	24.5	22.0	18.3	16.5	13.0	11.2	10.4	11.8	9.4	10.0	14.9
8	5.4	5.3	7.6	6.9	6.0	6.6	8.2	10.5	11.2	12.7	12.9	14.5	14.0	11.8	12.7	13.2
9	57.6	40.9	32.9	31.2	27.2	22.5	19.2	14.3	11.4	9.4	9.3	6.7	9.5	8.6	11.9	16.6
Total runs=	205	418	523	433	470	564	609	617	625	598	589	599	566	533	411	296

45 Degrees North Latitude

1	2.8	3.7	3.2	3.4	4.9	8.5	10.4	9.5	10.4	9.0	13.6	12.1	11.1	10.1	8.0	4.4
2	10.2	12.9	10.3	7.4	6.1	9.3	14.4	17.5	22.1	24.7	25.9	27.3	25.6	25.7	25.1	18.4
3	5.6	5.5	6.2	7.8	5.2	4.3	3.5	5.5	5.5	6.4	6.7	8.2	6.7	6.5	5.4	4.4
4	1.9	18.2	23.8	26.0	25.8	15.7	16.3	21.1	21.6	20.7	18.0	13.8	13.7	12.3	16.8	10.2
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9	3.2	5.7	7.2	8.0	9.3	11.5	13.4	18.9
7	10.2	11.3	13.5	17.0	19.0	30.5	25.8	21.7	17.9	15.5	12.9	14.7	15.0	14.8	10.3	8.7
8	6.5	3.9	5.0	4.1	4.7	3.7	4.8	6.4	7.4	9.0	9.8	11.1	12.1	12.3	9.4	12.1
9	63.0	44.5	38.1	34.3	34.3	28.0	24.7	17.5	11.8	8.9	5.9	4.8	6.4	6.7	11.7	22.8
Total runs=	108	380	504	565	426	485	578	641	652	652	611	586	593	494	351	206

42 Degrees North Latitude

1	2.6	3.7	1.4	3.8	4.4	6.5	7.5	8.6	10.1	11.0	13.8	14.2	10.6	9.8	11.9	7.1
2	10.3	6.9	6.3	6.7	6.0	7.0	10.4	13.4	14.5	17.9	18.9	20.1	20.7	20.6	11.4	11.2
3	5.1	6.6	6.9	5.3	4.2	3.6	2.8	5.1	4.5	8.1	7.7	6.5	5.4	7.1	8.4	4.1
4	2.6	14.5	20.7	25.1	29.0	19.1	17.0	19.3	24.4	20.9	15.1	11.4	11.3	14.5	12.9	9.2
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.9	6.9	10.5	13.6	15.4	16.3	15.2	19.3	21.4
7	12.8	10.3	16.4	14.8	18.1	22.1	28.5	26.6	22.4	18.5	17.5	18.2	17.8	14.5	12.9	7.1
8	2.6	2.1	3.0	2.4	2.8	2.5	3.2	3.9	4.8	6.9	8.2	7.9	9.4	7.8	6.9	11.2
9	64.1	55.9	45.2	41.9	35.6	39.2	30.1	19.2	12.3	6.3	5.1	6.3	8.5	10.5	16.3	28.6
Total runs=	39	379	493	549	503	444	599	642	664	666	623	571	540	408	202	98

Percentage of Runs of WPT 5 that Change to WPT Shown

39 Degrees North Latitude																
WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.7	1.8	3.4	3.1	2.8	6.6	7.2	9.1	9.6	11.0	12.4	11.2	14.1	12.0	0.0
2	11.1	3.6	4.6	5.0	3.8	5.5	8.7	12.2	12.5	13.4	14.1	16.3	17.5	12.1	1.3	0.0
3	0.0	4.0	2.4	4.3	3.3	3.1	2.3	4.2	5.5	7.9	6.6	5.4	7.8	6.6	10.7	0.0
4	0.0	10.1	13.6	18.1	27.1	22.5	14.3	16.3	19.9	19.1	16.4	16.1	13.2	14.1	5.3	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.2	1.6	10.2	15.4	17.8	20.7	24.0	22.9	26.3	29.3	0.0
7	0.0	9.4	10.3	11.8	13.0	18.2	27.9	26.5	23.0	21.8	20.0	14.6	13.5	8.6	9.3	0.0
8	11.1	1.4	2.0	2.0	2.1	1.4	1.9	1.9	4.4	3.8	6.0	4.8	5.6	4.5	6.7	0.0
9	77.8	70.8	65.3	55.3	47.7	46.2	36.8	21.4	10.2	6.6	5.2	6.5	8.3	13.6	25.3	0.0
Total runs	9	277	455	557	579	422	574	637	638	606	580	541	446	198	75	0

36 Degrees North Latitude																
1	0.0	0.0	0.6	2.3	2.2	2.6	5.7	8.7	7.6	9.3	8.6	9.6	16.5	13.0	0.0	0.0
2	0.0	1.5	1.9	1.9	1.9	2.1	5.9	7.7	8.5	10.8	13.6	12.1	8.0	2.6	0.0	0.0
3	33.3	3.1	2.8	3.0	1.4	2.1	2.1	3.2	5.8	5.4	6.1	6.1	4.6	7.8	0.0	0.0
4	0.0	1.5	10.2	9.4	19.4	20.1	11.1	16.4	16.8	17.8	14.0	15.2	12.7	10.4	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.3	0.9	5.4	18.0	25.9	28.2	32.0	34.3	35.0	41.6	0.0	0.0
7	0.0	1.5	5.6	8.5	8.8	11.0	24.3	23.7	21.7	18.5	17.4	11.9	9.7	7.8	0.0	0.0
8	0.0	0.0	0.6	1.3	1.0	1.6	1.4	1.3	3.6	4.1	2.7	4.7	1.7	2.6	0.0	0.0
9	66.7	92.3	78.3	73.7	64.9	59.6	44.2	21.0	10.3	5.8	5.6	6.3	11.8	14.3	0.0	0.0
Total runs	3	65	322	532	578	428	577	633	591	535	478	429	237	77	0	0

33 Degrees North Latitude																
1	0.0	0.0	0.0	0.6	0.9	1.0	4.2	5.2	5.8	6.3	6.6	7.2	11.4	0.0	0.0	0.0
2	0.0	0.0	1.7	1.0	0.7	1.0	3.7	4.7	5.6	9.4	12.7	8.0	3.8	5.3	0.0	0.0
3	0.0	0.0	0.0	2.3	0.9	1.3	3.0	2.0	4.3	2.6	4.4	6.8	3.8	5.3	0.0	0.0
4	0.0	0.0	5.8	6.5	12.8	17.0	8.1	15.1	13.6	17.1	13.3	12.0	9.5	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.4	1.8	12.4	36.1	44.7	41.5	43.8	47.0	57.1	73.7	0.0	0.0
7	0.0	0.0	1.7	5.2	3.1	9.6	17.3	17.2	15.7	12.9	10.2	10.8	4.8	5.3	0.0	0.0
8	0.0	0.0	0.0	0.6	0.2	0.8	1.2	1.4	2.7	3.3	1.7	1.2	1.9	0.0	0.0	0.0
9	0.0	100.0	90.9	83.9	80.9	67.5	49.9	18.3	7.6	6.8	7.2	6.8	7.6	10.5	0.0	0.0
Total runs	0	4	121	310	545	394	565	557	485	426	361	249	105	19	0	0

30 Degrees North Latitude																
1	0.0	0.0	0.0	0.0	0.7	1.4	2.2	1.6	3.0	5.8	5.9	3.5	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	1.4	3.2	4.2	4.0	5.9	4.4	3.6	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.7	0.0	0.4	1.8	2.3	1.8	2.1	3.5	3.6	0.0	0.0	0.0
4	0.0	0.0	0.0	5.9	5.3	4.6	3.8	12.2	12.9	9.0	10.6	8.0	10.7	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.9	19.4	54.6	60.2	57.4	54.3	66.4	64.3	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	2.6	6.4	7.9	12.4	10.2	16.6	16.0	8.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.2	0.4	0.9	0.5	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	100.0	94.1	90.7	86.7	64.0	14.0	6.8	4.5	4.8	6.2	17.9	0.0	0.0	0.0
Total runs	0	0	3	51	151	218	495	443	264	223	188	113	28	0	0	0

Percentage of Runs of WPT 5 that Change to WPT Shown

27 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	1.8	6.3	6.1	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	0.9	0.0	2.0	10.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.6	9.1	7.3	7.9	0.0	3.3	14.3	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	18.6	62.8	66.4	60.3	73.5	73.3	71.4	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	4.3	10.4	14.5	14.3	12.2	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	75.8	14.4	8.2	11.1	6.1	13.3	14.3	0.0	0.0	0.0
Total runs	0	0	0	0	0	0	322	298	110	63	49	30	7	0	0	0

24 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0	14.3	100.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.4	0.0	0.0	0.0	85.7	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs	0	0	0	0	0	0	0	205	0	0	0	7	1	0	0	0

Percentage of Runs of WPT 6 that Change to WPT Shown

51 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0

48 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	37.5	25.0	25.8	18.4	17.0	14.7	6.1	7.2
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	18.8	3.2	10.5	14.9	16.2	33.3	38.1
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	12.9	13.2	8.5	1.5	8.1	7.2
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	9.7	7.9	12.8	16.2	9.1	5.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	6.5	7.9	12.8	14.7	7.1	4.3
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	37.5	18.8	25.8	31.6	19.1	14.7	13.1	7.9
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	0.0	6.5	5.3	12.8	17.6	19.2	21.6
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	9.7	5.3	2.1	4.4	4.0	8.6
Total runs	0	0	0	0	0	1	0	2	8	16	31	38	47	68	99	139

45 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	24.3	17.9	19.2	22.0	11.8	11.8	9.4	9.9
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	4.5	8.2	13.4	12.9	16.5	26.1	25.2
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	8.1	9.0	6.8	9.8	14.0	11.0	7.2
4	0.0	0.0	0.0	0.0	0.0	0.0	33.3	6.7	8.1	19.4	27.4	15.9	17.2	11.8	10.6	8.3
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	16.2	13.4	6.8	11.0	8.6	7.1	5.0	4.1
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	66.7	40.0	27.0	28.4	21.9	17.1	24.7	22.8	17.2	13.2
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	2.7	6.0	5.5	4.9	4.3	13.4	13.9	16.9
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	8.1	1.5	4.1	6.1	6.5	5.5	10.6	17.8
Total runs	0	0	0	0	0	0	3	15	37	67	73	82	93	127	180	242

42 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	10.0	16.7	20.7	14.6	15.9	19.0	14.2	11.2	11.9	11.8
2	0.0	0.0	0.0	0.0	0.0	25.0	0.0	0.0	3.4	1.5	6.2	11.1	9.8	15.9	17.3	13.8
3	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.4	12.6	9.2	9.0	8.5	8.2	6.5	10.5	8.1
4	0.0	0.0	0.0	0.0	0.0	25.0	10.0	16.7	13.8	20.8	17.9	16.3	23.5	20.6	14.3	13.3
5	0.0	0.0	0.0	0.0	0.0	0.0	10.0	12.5	16.1	11.5	7.6	3.9	5.5	4.7	3.7	2.3
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	30.0	31.3	28.7	34.6	32.4	32.0	24.6	23.8	15.6	15.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	1.5	3.4	2.0	3.8	5.6	8.5	11.8
9	0.0	0.0	0.0	0.0	100.0	50.0	30.0	10.4	4.6	6.2	7.6	7.2	10.4	11.7	18.0	23.9
Total runs	0	0	0	0	1	4	10	48	87	130	145	153	183	214	294	347

Percentage of Runs of WPT 6 that Change to WPT Shown

39 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	8.8	13.6	16.9	15.1	15.5	15.2	13.7	14.2	13.6	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	2.9	1.5	3.1	2.2	4.2	4.0	8.3	7.9	7.5	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	2.9	4.5	5.1	10.8	6.7	6.5	7.3	8.4	9.0	0.0
4	0.0	0.0	0.0	0.0	0.0	14.3	14.7	13.6	12.3	15.1	15.1	18.1	20.6	18.8	14.9	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	8.8	6.8	11.3	13.4	11.7	9.1	4.8	5.1	1.6	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	14.3	32.4	40.9	40.5	34.5	38.1	37.3	27.3	25.6	20.1	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.0	1.7	1.3	0.7	2.5	3.0	6.6	0.0
9	0.0	0.0	0.0	0.0	100.0	71.4	29.4	16.7	9.7	7.3	7.5	9.1	15.6	17.0	26.7	0.0
Total runs=	0	0	0	0	2	7	34	132	195	232	239	276	315	394	442	0

36 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	6.0	8.6	10.6	11.0	14.2	11.8	11.6	10.7	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.0	2.9	3.6	3.0	5.1	5.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6	5.6	5.2	6.4	6.5	7.9	7.8	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	16.7	15.5	15.7	16.9	21.2	23.1	22.9	20.8	18.1	0.0	0.0
5	0.0	0.0	0.0	0.0	16.7	5.6	11.2	12.7	14.2	12.5	11.7	8.1	4.5	1.5	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	16.7	25.0	39.2	41.1	38.6	31.9	33.5	32.5	27.9	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.3	1.2	0.8	1.0	2.1	1.9	0.0	0.0
9	0.0	0.0	0.0	0.0	83.3	61.1	39.7	19.4	8.3	7.5	8.3	13.1	15.4	27.1	0.0	0.0
Total runs=	0	0	0	0	6	18	116	268	302	345	360	397	467	524	0	0

33 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	5.2	9.5	9.2	11.8	8.9	9.6	9.7	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	0.9	1.8	3.3	3.4	1.0	2.9	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	3.3	4.5	6.4	6.0	4.6	5.9	7.4	7.8	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	5.3	9.1	15.7	22.0	26.3	23.1	23.1	20.6	15.1	0.0	0.0
5	0.0	0.0	0.0	0.0	42.9	23.7	12.8	14.2	10.4	11.3	8.5	3.6	3.2	0.6	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	5.3	21.4	38.9	40.3	34.6	36.0	37.0	35.8	29.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.9	1.4	0.7	1.1	0.8	1.0	0.0	0.0
9	0.0	0.0	0.0	100.0	57.1	65.8	51.4	19.0	9.5	9.2	12.0	16.9	21.5	34.1	0.0	0.0
Total runs=	0	0	0	1	7	38	243	401	422	433	458	527	592	631	0	0

30 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.4	6.6	7.5	9.1	6.7	7.1	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.6	1.9	2.6	2.5	1.7	0.5	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	1.1	4.0	5.3	6.9	4.5	5.8	4.7	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	5.3	4.6	19.9	29.4	23.8	24.8	26.6	20.6	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	33.3	0.0	12.9	13.1	5.5	7.1	5.4	3.7	1.5	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	5.3	15.1	33.0	36.7	38.0	35.9	34.2	33.2	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.4	0.2	0.4	0.4	0.7	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	66.7	84.2	65.9	25.2	14.1	14.0	17.4	21.0	31.6	0.0	0.0	0.0
Total runs=	0	0	0	0	3	19	372	473	469	508	516	538	591	0	0	0

Percentage of Runs of WPT 6 that Change to WPT Shown

27 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	4.9	5.2	3.6	3.4	2.1	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.3	0.4	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.1	5.5	3.6	2.7	3.2	4.8	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	2.1	14.8	21.8	22.4	20.3	22.8	13.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	6.2	12.0	2.9	2.9	2.7	1.9	0.4	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	7.4	26.4	36.1	34.1	36.2	34.3	32.5	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	84.1	42.6	28.7	31.2	33.8	33.0	46.8	0.0	0.0	0.0
Total runs	0	0	0	0	0	0	340	526	487	478	473	464	477	0	0	0

24 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.9	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.6	0.9	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	0.0	0.0	0.0	9.8	6.1	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	0.0	0.0	0.0	0.5	0.2	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	0.0	0.0	0.0	29.7	24.3	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.7	0.0	0.0	0.0	57.7	67.5	0.0	0.0	0.0
Total runs	0	0	0	0	0	0	0	657	0	0	0	428	424	0	0	0

Percentage of Runs of WPT 7 that Change to WPT Shown

51 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	4.7	3.8	4.2	5.8	6.0	5.2	5.6	7.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	26.8	20.5	14.2	14.2	14.9	15.0	15.4	19.7	17.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1.6	2.1	3.3	3.3	6.0	3.4	3.9	4.2	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	13.2	20.9	29.9	28.2	24.6	25.1	22.1	28.2	28.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	13.7	23.1	22.1	21.6	23.8	28.4	31.9	23.5	24.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	8.9	6.4	8.5	9.4	7.1	6.1	8.1	6.7	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	31.1	23.1	17.8	17.5	17.5	16.8	13.0	10.5	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs=	190	234	331	394	382	327	285	238	199	0	0	0	0	0	0	0

48 Degrees North Latitude

1	5.1	2.0	2.0	4.7	8.3	5.0	6.3	7.6	6.1	7.3	8.1	11.2	12.3	7.5	7.7	6.8
2	11.9	13.4	15.5	10.2	12.0	12.0	12.6	14.8	16.7	17.6	17.2	16.9	17.5	15.8	12.8	14.2
3	5.6	2.0	3.0	3.9	4.4	4.4	7.5	5.8	5.3	4.4	5.9	5.1	1.8	3.4	5.1	4.3
4	11.3	25.7	26.0	31.0	30.7	29.2	29.7	28.9	32.2	40.0	34.9	35.4	34.5	32.9	38.5	30.2
5	7.9	19.3	19.6	23.1	21.2	27.4	24.9	24.4	23.7	18.0	22.6	18.0	19.3	19.2	9.0	8.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	1.6	2.2	3.5	8.2	9.0	8.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	7.3	5.9	5.7	6.3	7.6	5.7	5.7	6.9	6.5	5.9	2.7	3.9	4.7	2.7	8.3	13.6
9	50.8	31.7	28.0	20.7	15.9	16.2	13.2	11.7	9.0	6.3	7.0	7.3	6.4	10.3	9.6	14.8
Total runs=	177	202	296	381	410	383	333	291	245	205	186	178	171	146	156	162

45 Degrees North Latitude

1	3.1	3.9	5.2	2.6	6.3	8.2	8.0	6.6	7.2	8.9	10.5	10.7	10.0	7.5	8.7	8.2
2	7.4	10.1	6.6	7.2	6.5	9.8	11.7	11.3	14.5	12.3	15.5	12.1	14.9	14.2	12.7	12.9
3	4.9	6.1	4.2	3.3	2.9	5.3	5.4	4.9	5.8	7.6	4.5	5.4	5.9	5.3	2.9	5.3
4	4.9	25.7	23.9	30.1	36.6	29.4	27.2	32.1	36.6	30.5	36.8	34.8	31.7	37.2	35.3	28.2
5	4.3	14.5	18.8	24.2	21.1	26.0	27.9	25.4	23.6	24.2	21.4	22.8	20.8	18.6	11.6	3.5
6	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.2	0.7	4.7	3.6	2.2	4.1	7.1	8.1	13.5
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	5.5	5.6	7.0	2.3	4.2	3.3	3.3	5.2	5.1	5.1	3.2	6.3	6.3	3.5	6.4	8.8
9	69.9	34.1	34.3	30.4	22.5	18.0	16.4	13.3	6.5	6.8	4.5	5.8	6.3	6.6	14.5	19.4
Total runs=	163	179	213	306	383	489	427	346	276	236	220	224	221	226	173	170

42 Degrees North Latitude

1	4.9	3.8	1.9	2.5	3.6	5.2	6.7	7.7	8.8	9.5	8.8	11.4	9.7	8.3	7.9	8.2
2	4.9	8.8	3.8	6.5	7.7	9.2	8.3	7.7	9.1	9.8	11.1	14.0	11.7	9.6	8.8	8.8
3	4.9	3.8	2.8	2.9	1.9	2.8	4.0	5.5	6.1	5.3	4.6	3.3	4.8	5.2	3.9	5.2
4	1.6	24.2	26.5	27.7	31.1	30.7	29.9	36.1	34.1	36.5	41.2	37.1	36.7	44.3	38.2	30.4
5	0.5	15.9	23.2	20.9	24.6	24.4	29.7	24.4	22.6	22.1	18.7	19.1	17.7	11.7	7.0	2.1
6	0.0	0.0	0.0	0.0	0.0	0.2	0.7	1.7	4.0	8.8	7.6	6.6	11.3	12.2	15.8	17.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	5.5	4.9	4.3	2.2	1.9	3.1	1.8	2.7	4.9	3.9	3.1	4.4	3.6	2.6	5.7	4.6
9	77.5	38.5	37.4	37.4	29.2	24.4	19.0	14.2	10.4	4.2	5.0	4.0	4.4	6.1	12.7	23.7
Total runs=	182	182	211	278	366	459	448	402	328	285	262	272	248	230	228	194

Percentage of Runs of WPT 7 that Change to WPT Shown

39 Degrees North Latitude																
WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	1.8	3.5	1.8	3.6	2.5	3.7	4.6	7.2	9.9	8.3	10.2	8.0	7.3	7.2	7.9	0.0
2	3.0	2.9	2.9	3.6	4.0	6.5	6.2	5.8	5.8	8.3	8.0	8.0	3.1	3.6	3.7	0.0
3	2.4	5.8	5.3	3.1	1.8	2.1	5.0	6.3	6.3	6.8	3.8	5.2	3.8	4.3	5.4	0.0
4	0.0	12.1	21.6	23.8	24.3	30.7	25.7	31.9	32.1	37.3	36.7	36.1	38.5	44.4	28.2	0.0
5	0.0	8.1	22.2	22.0	27.5	26.6	31.1	24.5	22.5	13.6	19.2	16.0	18.8	4.3	2.1	0.0
6	0.0	0.0	0.0	0.0	0.0	0.2	1.7	6.8	12.9	18.8	15.3	18.4	18.4	23.1	28.6	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	3.0	2.3	1.8	1.3	1.1	2.1	1.7	2.3	2.2	1.5	3.5	2.8	3.5	3.2	4.6	0.0
9	89.8	65.3	44.4	42.6	38.8	28.2	24.2	15.2	8.2	5.2	3.2	5.6	6.6	9.7	19.5	0.0
Total runs=	166	173	171	223	276	433	483	429	364	324	313	288	288	277	241	0
36 Degrees North Latitude																
1	1.0	2.0	0.9	0.7	0.6	3.2	3.8	4.6	6.4	8.4	6.3	5.1	4.8	6.4	0.0	0.0
2	0.0	1.0	2.8	1.4	1.9	2.1	2.7	2.8	5.5	3.4	5.3	6.9	6.4	2.5	0.0	0.0
3	2.9	3.9	0.9	2.8	0.0	2.3	5.8	3.3	4.9	4.3	4.0	4.2	4.8	6.7	0.0	0.0
4	0.0	1.0	14.8	18.6	25.0	24.9	20.9	30.7	34.5	35.7	34.6	35.1	39.7	28.3	0.0	0.0
5	0.0	0.0	13.0	26.9	25.0	24.9	32.2	24.6	19.1	15.5	14.3	14.1	7.0	2.2	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	4.7	17.6	24.1	28.0	28.9	26.1	26.4	33.4	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	1.0	2.0	0.0	2.1	0.6	1.8	0.2	1.3	0.9	0.9	1.3	0.9	2.4	2.9	0.0	0.0
9	95.2	90.2	67.6	47.6	46.9	40.8	29.8	15.1	4.6	3.7	5.3	7.5	8.5	17.5	0.0	0.0
Total runs=	104	102	108	145	160	341	450	391	345	322	301	333	330	314	0	0
33 Degrees North Latitude																
1	0.0	3.2	0.0	0.0	0.0	1.3	3.1	4.6	4.3	2.9	6.1	5.3	5.1	6.2	0.0	0.0
2	0.0	0.0	0.0	1.0	0.9	1.3	0.8	1.7	1.0	1.8	1.7	4.1	1.7	0.3	0.0	0.0
3	0.0	1.6	0.0	1.0	0.0	1.6	2.1	2.0	2.3	2.5	4.4	3.8	4.0	3.1	0.0	0.0
4	0.0	0.0	5.9	12.7	14.7	20.3	16.3	31.0	40.3	41.8	36.4	32.0	26.1	17.3	0.0	0.0
5	0.0	0.0	3.5	10.8	33.0	24.4	35.4	24.3	16.3	10.7	9.9	7.7	3.4	1.2	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.3	9.4	25.5	30.3	33.9	35.7	39.9	46.2	50.6	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	1.6	1.2	0.0	0.0	0.9	0.0	0.0	0.3	0.7	1.4	0.0	0.8	1.9	0.0	0.0
9	0.0	93.7	89.4	74.5	51.4	50.0	32.8	10.7	5.0	5.7	4.4	7.1	12.7	19.4	0.0	0.0
Total runs=	0	63	85	102	109	316	381	345	300	280	294	338	353	324	0	0
30 Degrees North Latitude																
1	0.0	0.0	0.0	2.0	0.0	0.0	1.4	1.8	2.2	4.0	5.0	2.9	2.5	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	1.4	1.4	2.4	0.7	1.8	1.7	1.8	1.5	0.7	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	3.7	4.0	1.4	1.8	1.8	0.0	0.0	0.0
4	0.0	0.0	0.0	7.8	4.3	4.7	6.4	36.8	42.3	38.6	33.7	27.6	19.7	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	2.9	22.4	40.7	20.9	13.2	5.6	4.7	6.2	1.1	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	9.2	27.4	29.0	38.6	44.4	48.0	57.3	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.5	0.3	0.0	0.4	0.3	0.4	0.0	0.4	0.0	0.0	0.0
9	0.0	0.0	100.0	90.2	91.3	71.0	39.7	9.7	7.4	7.3	8.6	12.0	16.5	0.0	0.0	0.0
Total runs=	0	0	40	51	69	214	295	277	272	303	279	275	279	0	0	0

Percentage of Runs of WPT 7 that Change to WPT Shown

27 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.0	2.3	3.1	4.0	4.7	3.3	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.4	0.0	0.0	0.9	0.0	0.5	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.2	2.7	2.2	0.4	0.0	0.9	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	1.9	29.8	29.7	26.9	26.5	26.1	20.7	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	27.1	15.1	5.5	3.1	3.1	1.9	0.5	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	7.6	29.4	45.7	54.3	54.4	56.9	58.2	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.5	0.5	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	61.0	20.2	13.7	10.3	10.6	10.0	15.5	0.0	0.0	0.0
Total runs	0	0	0	0	0	0	210	252	256	223	226	211	213	0	0	0

24 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.1	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.4	0.0	0.0	0.0	13.0	11.4	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.7	0.0	0.0	0.0	62.0	60.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.4	0.0	0.0	0.0	22.3	26.3	0.0	0.0	0.0
Total runs	0	0	0	0	0	0	0	156	0	0	0	184	175	0	0	0

Percentage of Runs of WPT 8 that Change to WPT Shown

51 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.4	0.0	0.5	0.0	0.7	0.0	1.0	1.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	19.6	15.9	8.3	7.1	6.7	6.6	6.8	10.0	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.4	0.0	0.9	0.0	0.7	0.7	0.3	0.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	21.2	38.3	49.1	48.5	44.8	46.5	51.0	51.1	51.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	9.0	10.4	12.8	13.7	20.1	20.3	18.6	17.9	22.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7.5	9.0	12.4	13.7	12.3	9.2	7.1	6.4	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	42.0	26.4	16.1	17.0	14.6	16.6	15.2	12.5	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs=	255	201	218	241	268	271	296	329	343	0	0	0	0	0	0	0

48 Degrees North Latitude

1	2.0	0.0	0.0	0.0	2.8	1.5	0.0	1.1	0.0	2.3	0.8	1.1	0.3	0.5	0.9	1.2
2	18.8	16.9	7.8	5.6	6.1	5.9	8.1	8.7	10.2	9.6	10.7	12.4	13.0	15.9	12.1	14.4
3	2.0	1.1	1.2	0.6	0.6	0.5	1.3	1.1	1.0	1.2	0.8	1.1	1.3	1.0	0.2	0.4
4	11.3	31.1	45.5	51.4	42.0	44.8	52.9	57.7	54.4	55.0	57.8	52.0	54.7	50.9	52.9	40.7
5	3.5	9.8	10.2	9.6	17.7	22.2	20.2	17.4	22.3	20.5	17.1	20.8	19.7	15.6	13.2	10.1
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	1.0	2.8	3.0
7	3.9	9.3	12.0	16.9	19.9	12.8	4.9	6.0	4.9	4.7	3.2	2.7	2.6	1.5	2.0	2.4
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	58.6	31.7	23.4	15.8	11.0	12.3	12.6	7.9	7.2	6.7	9.1	10.0	8.5	13.7	15.8	27.9
Total runs=	256	183	167	177	181	203	223	265	305	342	374	371	386	409	461	506

45 Degrees North Latitude

1	2.7	0.0	0.0	1.1	2.0	0.9	0.0	1.0	0.9	0.7	2.4	1.4	0.8	0.8	0.3	0.9
2	16.4	11.3	8.8	10.8	3.0	7.7	8.7	6.7	9.2	7.1	9.2	10.9	12.7	13.8	13.4	14.6
3	2.2	2.3	0.0	0.0	0.0	1.7	0.0	1.5	1.3	1.1	2.4	2.9	1.1	1.1	1.5	1.1
4	2.2	28.6	40.8	41.9	49.5	48.7	51.3	54.6	57.2	54.5	50.7	50.9	52.7	55.1	49.7	42.9
5	1.3	5.3	5.6	14.0	10.9	12.0	19.3	22.2	19.7	26.9	22.6	20.6	19.3	12.1	11.1	5.7
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.6	0.6	0.3	1.1	2.5	5.4
7	4.0	3.8	4.0	12.9	20.8	17.1	7.3	6.7	5.2	3.4	5.3	4.0	4.5	2.3	1.3	2.2
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	71.1	48.9	40.8	19.4	13.9	12.0	13.3	7.2	6.1	6.3	6.8	8.9	8.5	13.6	20.2	27.2
Total runs=	225	133	125	93	101	117	150	194	229	268	337	350	353	354	396	459

42 Degrees North Latitude

1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.2	0.0	2.0	1.9	1.1	0.4	0.6	2.0
2	19.5	13.9	11.0	5.9	7.6	6.2	8.6	3.9	6.2	4.2	7.5	8.6	12.0	10.3	8.9	9.3
3	5.3	4.0	2.2	1.5	1.5	1.2	0.0	1.6	1.9	1.9	2.4	1.5	2.2	2.7	0.9	0.5
4	0.0	22.8	29.7	41.2	43.9	42.0	45.7	52.7	56.5	56.5	51.6	58.0	57.8	57.1	54.1	36.9
5	0.0	4.0	8.8	16.2	10.6	12.3	24.8	21.7	19.3	26.6	24.0	19.7	16.4	12.3	5.7	5.1
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.2	1.1	0.7	2.3	3.2	8.1
7	2.3	4.0	5.5	13.2	13.6	17.3	11.4	7.8	5.0	3.3	5.5	4.5	2.5	2.7	2.8	1.8
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	72.2	51.5	42.9	22.1	22.7	21.0	9.5	11.6	9.9	7.0	5.9	4.8	7.3	12.3	23.7	36.4
Total runs=	133	101	91	68	66	81	105	129	161	214	254	269	275	261	316	396

Percentage of Runs of WPT 8 that Change to WPT Shown

39 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	3.9	0.0	0.0	1.8	0.0	1.6	0.0	1.1	2.5	0.8	1.3	1.4	1.9	2.8	2.4	0.0
2	11.8	7.5	6.0	7.0	7.3	3.2	9.7	4.4	4.2	4.6	6.5	8.8	6.8	6.1	5.2	0.0
3	1.3	3.8	1.5	0.0	1.8	0.0	0.0	1.1	1.7	2.3	0.6	2.7	2.5	0.6	2.8	0.0
4	0.0	13.2	25.4	36.8	34.5	35.5	40.3	52.7	46.6	54.6	60.4	58.5	55.6	58.1	45.0	0.0
5	0.0	3.8	9.0	10.5	9.1	16.1	15.3	23.1	30.5	27.7	24.0	19.0	16.0	5.0	1.6	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.7	0.0	0.6	0.7	3.7	6.7	8.4	0.0
7	1.3	5.7	6.0	5.3	1.8	12.9	9.7	2.2	2.5	4.6	2.6	4.1	2.5	2.2	2.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	81.6	66.0	52.2	38.6	45.5	30.6	25.0	14.3	10.2	5.4	3.9	4.8	11.1	18.4	32.7	0.0
Total runs	76	53	67	57	55	62	72	91	118	130	154	147	162	179	251	0

36 Degrees North Latitude

1	2.5	2.4	0.0	0.0	0.0	0.0	0.0	4.1	1.4	1.5	0.0	0.0	2.3	2.8	0.0	0.0
2	2.5	4.9	5.0	2.4	2.3	0.0	4.7	2.0	4.2	3.0	2.9	4.0	3.4	2.8	0.0	0.0
3	2.5	2.4	0.0	0.0	0.0	2.1	0.0	2.0	1.4	0.0	2.9	4.0	3.4	1.8	0.0	0.0
4	0.0	4.9	17.5	23.8	27.9	35.4	39.5	53.1	54.2	71.2	67.6	60.0	47.7	49.5	0.0	0.0
5	0.0	0.0	7.5	14.3	11.6	12.5	14.0	18.4	25.0	18.2	17.6	17.3	11.4	0.9	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	5.6	4.5	2.9	6.7	9.1	11.0	0.0	0.0
7	2.5	0.0	5.0	2.4	0.0	8.3	7.0	2.0	1.4	1.5	1.5	1.3	3.4	2.8	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	90.0	85.4	65.0	57.1	58.1	41.7	34.9	14.3	6.9	0.0	4.4	6.7	19.3	28.4	0.0	0.0
Total runs	40	41	40	42	43	48	43	49	72	66	68	75	88	109	0	0

33 Degrees North Latitude

1	0.0	10.5	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	5.3	1.6	0.0	0.0
2	0.0	0.0	5.6	5.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	4.3	0.0	9.5	0.0	3.3	4.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	16.7	5.0	23.1	30.4	34.8	47.6	48.4	63.3	68.0	66.7	47.4	28.1	0.0	0.0
5	0.0	0.0	0.0	10.0	23.1	0.0	21.7	23.8	25.8	13.3	16.0	11.1	2.6	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	16.1	13.3	4.0	11.1	21.1	26.6	0.0	0.0
7	0.0	5.3	0.0	0.0	3.8	0.0	8.7	0.0	0.0	3.3	4.0	0.0	7.9	1.6	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	84.2	77.8	80.0	50.0	65.2	30.4	9.5	6.5	3.3	4.0	7.4	15.8	42.2	0.0	0.0
Total runs	0	19	18	20	26	23	23	21	31	30	25	27	38	64	0	0

30 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	25.0	0.0	11.1	20.0	14.3	50.0	80.0	75.0	25.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	12.5	0.0	33.3	20.0	28.6	16.7	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	42.9	33.3	0.0	25.0	33.3	0.0	0.0	0.0
7	0.0	0.0	0.0	16.7	0.0	11.1	11.1	0.0	14.3	0.0	0.0	0.0	8.3	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	100.0	83.3	62.5	88.9	44.4	20.0	0.0	0.0	20.0	0.0	33.3	0.0	0.0	0.0
Total runs	0	0	3	6	8	9	9	5	7	6	5	4	12	0	0	0

Percentage of Runs of WPT 8 that Change to WPT Shown

27 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	50.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	100.0	0.0	0.0	50.0	0.0	0.0	0.0
Total runs	0	0	0	0	0	0	0	2	1	1	0	1	2	0	0	0

24 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Percentage of Runs of WPT 9 that Change to WPT Shown

51 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	1.3	0.9	0.2	3.1	4.3	3.3	3.2	2.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	25.2	12.3	8.4	7.0	11.2	16.7	13.2	14.8	14.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	2.5	2.8	3.5	4.4	2.9	4.1	2.9	4.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	30.0	40.0	37.4	35.9	30.7	29.2	36.0	33.1	37.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	23.0	23.7	22.1	15.3	19.1	22.4	18.6	19.0	16.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	9.4	12.9	17.5	20.0	18.6	15.0	14.5	16.0	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	8.6	7.3	10.8	14.4	13.2	9.3	11.6	10.3	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs=	683	535	452	459	446	366	311	263	248	0	0	0	0	0	0	0

48 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	5.0	1.4	1.9	2.9	4.7	5.1	6.3	5.7	6.4	5.5	1.9	2.4	4.4	4.2	5.5	4.0
2	24.0	15.7	11.0	7.7	10.5	9.8	12.3	14.6	11.5	17.0	15.2	18.5	16.7	15.2	18.3	22.9
3	5.3	2.9	3.3	5.2	6.5	6.3	5.1	5.7	4.1	3.5	3.3	2.0	2.5	2.5	2.1	2.6
4	23.0	38.2	36.0	41.7	36.3	33.2	34.9	29.9	33.9	28.5	31.0	37.1	34.3	32.9	29.8	22.2
5	15.6	21.0	25.2	18.1	17.0	19.3	19.6	19.2	17.9	20.5	22.9	16.6	18.6	19.8	12.8	11.8
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9	0.0	1.0	1.0	1.5	1.7	4.2	6.1
7	14.6	12.1	15.0	17.2	18.1	18.0	14.5	16.5	16.1	12.5	10.0	6.3	7.4	6.8	6.9	9.5
8	12.5	8.7	7.7	7.0	7.0	8.3	7.2	8.0	9.2	12.5	14.8	16.1	14.7	16.9	20.4	20.8
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs=	755	586	520	441	430	410	332	261	218	200	210	205	204	237	289	423

45 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	6.5	1.4	1.1	1.6	3.4	6.4	7.4	8.2	6.7	8.0	4.9	4.3	3.5	4.4	6.2	7.5
2	18.4	13.3	9.6	7.6	7.1	7.0	10.2	13.7	11.0	13.2	12.3	11.5	17.6	15.0	14.2	17.5
3	11.3	6.2	5.2	5.4	7.3	5.5	5.6	4.1	5.7	5.7	5.6	4.5	3.5	6.3	5.6	6.2
4	14.4	38.5	37.1	36.2	43.5	37.5	34.2	30.7	31.0	33.9	30.9	38.5	39.4	33.5	28.2	22.7
5	12.5	21.7	28.2	28.3	15.9	13.8	13.5	16.4	18.6	21.8	18.5	16.0	16.5	16.0	11.0	7.3
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	1.1	3.1	1.3	0.6	1.9	5.6	10.4
7	18.9	11.7	13.0	16.9	19.8	26.3	23.7	21.2	17.6	8.6	9.9	9.0	7.1	11.2	10.7	10.2
8	18.0	7.2	5.9	4.1	2.8	3.5	5.4	5.1	8.1	7.5	14.8	14.7	11.8	11.7	18.4	18.3
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs=	646	626	561	516	464	456	392	293	210	174	162	156	170	206	337	481

42 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	7.5	2.0	1.9	2.5	3.8	6.7	7.0	7.9	5.9	3.5	3.9	3.7	3.5	6.1	8.0	9.4
2	16.7	8.0	7.5	7.4	6.1	5.2	8.5	8.2	4.9	9.9	10.9	11.8	14.1	14.3	12.1	11.7
3	19.1	7.5	5.9	5.7	5.3	5.8	4.5	5.0	5.9	5.0	7.8	2.2	3.5	4.1	8.0	6.9
4	4.9	36.5	37.6	34.3	36.6	37.4	31.5	30.0	30.7	29.8	36.7	34.6	40.6	38.8	28.8	21.8
5	7.3	26.4	27.7	28.1	23.1	14.3	17.9	22.4	22.4	20.6	16.4	16.2	14.1	9.0	5.3	3.9
6	0.0	0.0	0.0	0.0	0.0	0.2	0.4	1.9	5.9	5.0	4.7	5.9	7.1	5.3	10.9	16.3
7	29.5	13.2	14.3	19.3	22.9	28.4	27.4	22.1	19.5	14.2	10.2	12.5	8.2	11.0	15.3	12.4
8	15.0	6.5	5.2	2.8	2.2	2.0	2.8	2.5	4.9	12.1	9.4	13.2	8.8	11.4	11.6	17.4
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs=	508	666	575	566	506	538	470	317	205	141	128	136	170	245	413	563

Percentage of Runs of WPT 9 that Change to WPT Shown

WPT	39 Degrees North Latitude															
	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	8.3	2.7	1.1	3.8	4.3	5.4	6.9	7.0	5.6	7.5	6.2	4.8	6.2	6.6	10.9	0.0
2	10.8	6.8	6.0	7.0	5.3	4.3	5.7	6.7	7.3	4.2	9.7	4.8	8.1	10.3	6.3	0.0
3	22.8	8.9	6.9	3.6	3.6	3.6	6.0	2.3	5.1	8.3	5.3	3.4	4.8	8.0	6.7	0.0
4	1.7	26.1	32.2	28.1	30.5	34.9	26.1	28.1	29.4	30.0	29.2	40.4	37.8	32.7	27.0	0.0
5	2.5	31.5	35.4	36.8	30.2	17.8	20.4	24.6	19.8	20.8	18.6	8.9	7.7	4.3	2.0	0.0
6	0.0	0.0	0.0	0.0	0.2	0.9	2.3	6.4	9.0	14.2	12.4	16.4	14.8	13.5	22.0	0.0
7	42.2	19.2	14.8	18.5	23.4	30.4	31.6	23.8	19.8	10.8	12.4	17.1	15.8	17.8	15.7	0.0
8	11.7	4.8	3.6	2.2	2.5	2.8	1.1	1.2	4.0	4.2	6.2	4.1	4.8	6.9	9.3	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs	360	620	636	604	603	579	564	345	177	120	113	146	209	349	540	0

36 Degrees North Latitude																
1	8.3	5.2	2.7	4.0	4.2	4.5	8.5	5.0	2.7	7.5	4.3	1.2	3.8	7.7	0.0	0.0
2	7.3	5.8	3.9	3.7	2.7	4.0	3.8	2.6	4.0	3.8	3.5	4.2	1.5	3.2	0.0	0.0
3	23.4	13.2	10.1	5.3	3.3	5.0	3.3	2.9	4.7	4.7	7.0	4.8	4.6	5.9	0.0	0.0
4	1.4	19.1	25.4	19.2	31.1	34.5	21.2	23.8	30.9	33.0	36.5	32.5	39.3	30.2	0.0	0.0
5	1.4	18.2	39.5	50.9	41.1	22.1	24.1	24.4	21.5	17.0	10.4	12.7	6.1	3.2	0.0	0.0
6	0.0	0.0	0.0	0.0	0.6	1.9	8.5	16.2	16.1	20.8	20.0	22.3	21.4	26.5	0.0	0.0
7	45.9	30.8	14.2	14.2	13.8	25.2	29.5	24.7	18.8	12.3	16.5	21.7	21.0	19.7	0.0	0.0
8	12.4	7.7	4.1	2.6	3.3	2.6	1.1	0.3	1.3	0.9	1.7	0.6	2.3	3.6	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs	218	325	562	619	669	718	660	340	149	106	115	166	262	441	0	0

33 Degrees North Latitude																
1	0.0	6.5	3.3	3.9	4.0	4.9	4.7	4.6	3.7	1.7	0.7	2.0	1.9	4.8	0.0	0.0
2	0.0	7.9	2.7	1.8	1.9	2.3	2.2	1.4	1.5	1.7	1.4	0.0	0.3	0.8	0.0	0.0
3	0.0	28.8	11.1	7.3	3.3	4.2	3.9	1.1	0.7	5.0	4.2	4.5	3.8	4.8	0.0	0.0
4	0.0	2.2	31.3	22.0	22.7	33.8	15.2	19.7	33.8	32.8	32.4	30.3	30.3	19.8	0.0	0.0
5	0.0	2.9	27.7	46.7	51.9	22.5	28.2	28.2	20.6	11.8	9.2	7.5	2.2	0.6	0.0	0.0
6	0.0	0.0	0.0	0.2	0.7	3.6	17.2	27.1	26.5	31.1	36.6	32.3	35.9	44.8	0.0	0.0
7	0.0	44.6	20.7	15.6	12.8	27.8	28.3	17.3	11.8	16.0	15.5	22.4	23.8	20.9	0.0	0.0
8	0.0	7.2	3.3	2.6	2.7	1.0	0.3	0.7	1.5	0.0	0.0	1.0	1.9	3.5	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs	0	139	368	508	674	788	685	284	136	119	142	201	320	484	0	0

30 Degrees North Latitude																
1	0.0	0.0	5.2	3.4	5.8	6.4	3.0	1.5	0.6	0.0	0.6	1.3	2.9	0.0	0.0	0.0
2	0.0	0.0	1.0	1.0	2.4	1.2	1.2	0.4	0.0	1.4	1.2	0.0	0.3	0.0	0.0	0.0
3	0.0	0.0	29.9	15.4	5.8	4.4	0.9	2.6	1.9	1.4	0.6	2.2	4.4	0.0	0.0	0.0
4	0.0	0.0	16.5	34.1	24.4	19.7	7.6	22.1	31.2	27.6	26.9	26.7	20.5	0.0	0.0	0.0
5	0.0	0.0	3.1	21.2	39.9	28.9	31.8	21.0	14.6	7.6	6.4	3.1	1.2	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.9	3.3	31.1	35.8	39.5	44.8	45.6	48.9	54.8	0.0	0.0	0.0
7	0.0	0.0	41.2	22.6	18.6	35.3	24.1	16.6	12.1	17.2	18.7	17.8	14.4	0.0	0.0	0.0
8	0.0	0.0	3.1	2.4	2.1	1.0	0.4	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs	0	0	97	208	328	519	777	271	157	145	171	225	341	0	0	0

Percentage of Runs of WPT 9 that Change to WPT Shown

27 Degrees North Latitude

WPT	Degrees West Longitude															
	126	122	118	114	110	106	102	98	94	90	86	82	78	74	70	66
1	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.5	0.9	0.9	1.3	0.4	1.3	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.5	0.0	0.4	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.8	0.9	1.8	0.9	3.5	1.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	2.7	20.1	26.1	19.0	22.3	17.8	13.5	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	33.0	16.6	4.9	4.5	1.7	0.9	0.3	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	37.3	48.9	56.2	60.2	59.0	60.9	67.4	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	24.0	13.0	11.1	13.1	14.8	16.1	16.1	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs	0	0	0	0	0	0	699	368	226	221	229	230	310	0	0	0

24 Degrees North Latitude

1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	0.0	0.0	0.0	8.7	6.4	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.3	0.0	0.0	0.0	72.3	72.8	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	0.0	0.0	0.0	17.4	20.2	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total runs	0	0	0	0	0	0	0	610	0	0	0	310	346	0	0	0

Summary of Alternation Probability

Northwest

New WPT	Weather Pattern Type of Current Run								
	1	2	3	4	5	6	7	8	9
1	0.0	1.7	1.2	2.8	3.7	0.0	4.5	0.8	3.4
2	6.5	0.0	6.0	6.8	11.1	6.3	10.0	10.5	10.7
3	8.1	3.7	0.0	2.6	4.3	0.0	3.6	1.2	6.2
4	33.5	25.2	39.0	0.0	19.9	18.8	25.6	34.4	32.0
5	8.9	9.8	13.0	40.0	0.0	0.0	21.0	11.0	22.0
6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	15.5	11.8	7.7	12.5	16.9	12.5	0.0	10.2	18.5
8	7.0	23.9	4.4	3.3	5.1	0.0	4.9	0.0	7.2
9	20.4	23.8	28.7	32.0	39.0	62.5	30.3	32.2	0.0
Total runs =	1978	5720	2653	14495	12689	16	8560	4325	16113

Summary of Alternation Probability

North Central

New WPT	Weather Pattern Type of Current Run								
	1	2	3	4	5	6	7	8	9
1	0.0	3.2	1.8	3.3	8.9	16.3	7.3	0.9	6.2
2	5.7	0.0	6.4	10.0	19.0	2.9	11.0	7.9	10.4
3	13.3	6.9	0.0	2.2	5.4	8.4	5.5	1.2	4.8
4	37.4	32.5	46.4	0.0	18.6	14.7	31.3	53.2	31.4
5	10.6	10.9	19.5	59.2	0.0	11.6	24.8	21.6	19.3
6	3.3	0.4	0.6	0.6	4.2	0.0	3.5	0.1	2.0
7	13.8	7.4	8.9	9.7	20.6	34.9	0.0	5.4	19.9
8	8.5	31.0	8.5	3.7	7.4	1.9	4.1	0.0	6.1
9	7.4	7.6	7.9	11.3	15.9	9.4	12.5	9.8	0.0
Total runs =	2625	5282	2327	11799	11804	1016	6144	3964	5241

Summary of Alternation Probability

Northeast

New WPT	Weather Pattern Type of Current Run								
	1	2	3	4	5	6	7	8	9
1	0.0	4.0	1.9	3.7	10.9	13.4	8.9	1.2	6.1
2	5.0	0.0	7.0	16.1	23.8	13.1	11.0	11.3	13.6
3	13.2	6.9	0.0	1.6	6.2	8.1	4.6	1.4	5.1
4	39.5	30.0	50.9	0.0	14.2	15.6	36.2	51.2	30.4
5	6.8	6.1	12.7	43.0	0.0	5.6	14.6	14.2	10.7
6	3.3	1.5	2.7	9.2	12.4	0.0	11.4	2.4	8.9
7	8.6	4.6	3.7	7.0	13.7	22.9	0.0	2.8	11.5
8	17.1	39.6	12.7	6.2	10.0	7.4	4.6	0.0	13.8
9	6.5	7.4	8.4	13.3	8.7	13.9	8.8	15.6	0.0
Total runs =	3499	7941	2849	14793	10117	4221	5074	7420	6092

Summary of Alternation Probability

Southwest

New WPT	Weather Pattern Type of Current Run								
	1	2	3	4	5	6	7	8	9
1	0.0	2.5	0.4	1.0	1.4	0.0	1.2	1.0	4.5
2	0.2	0.0	1.1	0.8	1.3	1.1	1.3	2.3	3.0
3	11.0	3.1	0.0	1.0	1.7	0.0	1.3	1.0	7.7
4	21.1	13.1	19.9	0.0	12.5	6.5	14.1	17.4	25.2
5	8.2	5.6	10.2	34.6	0.0	16.3	17.7	7.5	33.1
6	0.0	0.0	0.0	0.1	0.5	0.0	0.0	0.0	1.1
7	8.0	6.2	4.0	5.8	6.8	6.5	0.0	3.1	22.2
8	6.3	22.1	3.0	0.3	0.8	0.0	0.9	0.0	3.2
9	45.1	47.4	61.3	56.5	75.0	69.6	63.4	67.6	0.0
Total runs =	426	321	698	2798	3725	92	2009	386	6740

Summary of Alternation Probability

South Central

New WPT	Weather Pattern Type of Current Run								
	1	2	3	4	5	6	7	8	9
1	0.0	4.6	0.8	1.0	5.0	5.2	3.7	1.4	3.0
2	1.5	0.0	1.4	2.2	5.2	1.0	1.8	2.7	1.4
3	10.5	10.5	0.0	0.8	2.7	3.9	2.9	1.4	2.0
4	42.6	33.2	46.3	0.0	12.0	17.5	28.8	51.1	17.4
5	9.7	11.7	23.6	55.7	0.0	9.5	20.2	20.5	22.2
6	7.4	3.3	5.9	19.9	32.8	0.0	25.0	7.1	33.2
7	12.4	7.3	6.3	7.4	15.8	30.2	0.0	3.3	20.3
8	3.3	13.5	2.4	0.4	1.6	0.5	0.4	0.0	0.3
9	12.8	16.0	13.2	12.6	24.8	32.2	17.2	12.6	0.0
Total runs *	1170	763	967	5899	6792	6840	5058	366	5953

Summary of Alternation Probability

Southeast

New WPT	Weather Pattern Type of Current Run								
	1	2	3	4	5	6	7	8	9
1	0.0	7.2	1.5	2.4	8.5	7.6	4.7	1.5	2.5
2	1.8	0.0	1.8	4.7	9.7	2.1	2.5	2.3	0.9
3	9.8	16.0	0.0	1.7	5.0	5.3	3.0	2.1	3.3
4	50.8	38.1	58.3	0.0	12.4	19.5	27.8	51.7	23.1
5	2.9	3.8	6.5	25.7	0.0	3.4	5.4	8.5	3.0
6	9.7	8.1	9.5	41.4	43.2	0.0	43.7	12.2	47.0
7	11.2	7.0	3.9	8.1	11.7	32.8	0.0	2.7	18.8
8	5.5	13.6	4.3	1.1	2.1	0.7	0.9	0.0	1.3
9	8.2	6.2	14.2	15.0	7.4	28.5	12.1	18.9	0.0
Total runs *	1354	889	1201	6051	2378	7867	4429	518	4293

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