U. S. DEPARTMENT OF COMMERCE
LEWIS L. STRAUSS, *Secretary*
WEATHER BUREAU
F. W. REICHELDERFER, *Chief*

TECHNICAL PAPER NO. 34

# Upper Wind Distribution Statistical Parameter Estimates

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WASHINGTON, D. C.
NOVEMBER 1958

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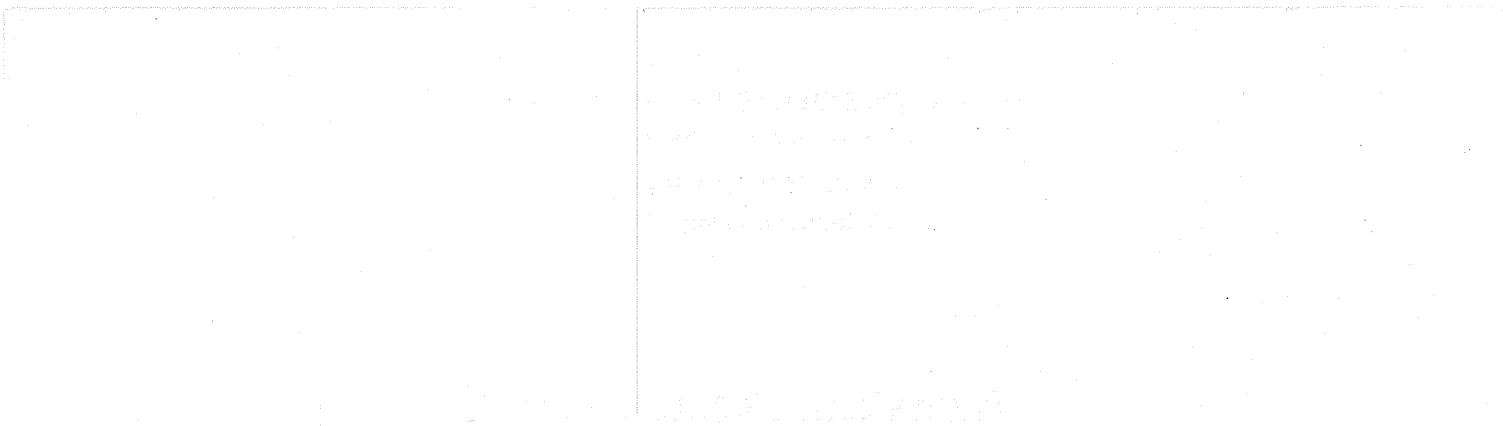

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## ACKNOWLEDGMENTS

To the U. S. Navy and to the Office of the U. S. Navy Representative at the National Weather Records Center (NWRC) for their intense interest and support given to the collection and processing of these wind data; to Mr. Leslie Smith, formerly Director, NWRC, for encouragement; to Mr. James Roddy for making the necessary electronic data processing machine programs; to Morton Bailey and Nancy Mauldin, who assembled the tabulations; to Lucille Gamache, who made the typescript; and to all other members of the staff of the NWRC who have contributed to this work.

# UPPER WIND DISTRIBUTION STATISTICAL PARAMETER ESTIMATES

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## 1. INTRODUCTION

The use and importance of upper-air wind data continue to increase. One reason is the growing and spreading knowledge of how to use the data more efficiently. Another reason is the urgency created by atomic and nuclear weapons, by rocket and satellite vehicles, and the economics of air transportation. Complete knowledge of all the relationships among the winds in space and time is lacking. Therefore, as new information is obtained its publication will enable others to advance their knowledge and to bridge those gaps now existing.

Several valuable publications are now available. The U. S. Navy [17] published in NAVAER 50-1C-526 a detailed summary of wind data over the United States of America and the Atlantic and Pacific Oceans, and presented [18] these data in graphical form in NAVAER 50-1C-528 and 529. The Navy publications and the British publications by Brooks and others on upper winds [2, 3, 9, 14] are mutually supplementary.

Several Meteorological Services now publish routinely the vector mean winds at selected station levels. Included in the publication of data for some stations, notably the British, are the standard vector deviations. In some, the scalar means are also published; these are the means of the speeds without regard to direction.

Many investigators have contributed to the extensive use of wind distribution parameters to answer problems facing meteorologists and associated scientists. Among the British, Canadian, and United States contributions are [1 - 16]. The present use of such data has been most strongly centered on the effects of wind on air transportation, radioactive "fallout", guided missile operation, and air pollution in general. Specific uses are given in the referenced papers.

## 2. PURPOSE

The purpose of this publication is to place in the hands of the user derived estimates of some statistical parameters of wind distributions over the Northern Hemisphere. Some of the uses of these derived parameters are discussed in the referenced papers and therefore are not repeated here.

Statistical parameters and derived values prepared from the original data are presented in the tables of this publication. These do not exhaust all of the possible relationships among the data, but they do present many of the wind data on a Northern Hemisphere basis that are urgently needed by the meteorologist, the forecaster, the climatologist, and the research worker in many fields of endeavor.

## 3. SOURCE OF DATA

The data used in this publication are on file at the National Weather Records Center in Asheville, N. C. These are a by-product of various projects accomplished at the Center, primarily those of the U. S. Navy. The general areas, period, and pressure levels of the data are as follows:

United States

4 Seasons: winter (Dec., Jan., Feb.), spring summer, fall
1 Period: 5 years, 1948 to 1953
5 Levels: 850, 700, 500, 300, 200 mb.

North Atlantic Area

4 Seasons: winter, spring, summer, fall
1 Period: 5 years, 1948 to 1953
5 Levels: 850, 700, 500, 300, 200 mb.

North Pacific Area

4 Seasons: winter, spring, summer, fall
1 Period: 5 years, 1948 to 1953
5 Levels: 850, 700, 500, 300, 200 mb.

Canadian, Arctic, and Caribbean Areas

4 Seasons: winter, spring, summer, fall
1 Period: 5 years, 1948 to 1953
4 Levels: 700, 500, 300, 200 mb.

Eurasian Area

4 Seasons: winter, spring, summer, fall

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1 Period: 6 years, 1950 to 1956, inclusive
5 Levels: 850, 700, 500, 300, 200 mb.

Adjoining Areas

4 Seasons: winter, spring, summer, fall
X Period: variable
5 Levels: 850, 700, 500, 300, 200 mb.

For the Northern Hemisphere, reaching westward from about the Greenwich meridian to the coast of Asia, 5 years of record, 1948-1953, were used to produce the publication NAVAER 50-1C-526. The data from the 108 stations used in that project have been supplemented here by data for the same period from western Greenland, Canada, Mexico, the Caribbean area, Africa, and Eurasia.

Rawin observations were the primary source of data. Daytime observations, one per day, were used, as the balloons usually reach higher altitudes during the day. Thus, for the first two octants (0° longitude westward to 180°) the 1500 GMT soundings were used.

In a few cases, where rawin observations were initiated after the beginning of record, pibal data were used to fill out the observation record prior to the use of rawins.

Supplemental data for about 40 stations in the European, African, and Asian sections were obtained, also as by-products of projects effected at the Center. These data in general cover the period 1950-1956. Gaps exist in the record for some stations which have not been completed by scaling of values from upper-air charts. Where gaps have been filled, the methods used to provide "fill-in" data are those discussed in NAVAER 50-1C-526 and in unpublished sources available at the National Weather Records Center.

At the present time, data for the Northern Hemisphere for the periods specified previously are available only up to 200 mb. As data become available for higher levels, either directly from, or as a by-product of, a project, it is planned to issue such data in a supplemental publication.

## 4. STATISTICAL PARAMETER ESTIMATES

The estimates of the statistical parameters of the upper wind distribution are tabulated on pages — . Table 1 gives the symbols and definitions of the statistical parameters and the formulas used in computing the tabulated estimates. Table 2 provides the list of stations by geographic areas, by latitude, longitude, time of observation, period of record, and the pressure surfaces used. The stations are listed alphabetically in the table of contents.

## 5. FUTURE PLANS

The data presented here lend themselves to analysis on a hemispheric basis. In a separate project supported by the U. S. Navy, the U. S. Weather Bureau has initiated analysis of selected parameters over the Northern Hemisphere. Charts will be published by the Chief of Naval Operations as a part of the Navaer series.

Among those parameters initially selected for analysis are the isogons and isotachs of the vector mean wind, the standard vector deviation, the means and standard deviations of the zonal and meridional wind components. Cross-section analyses at selected meridians from the equator to the pole of the same parameters will be made.

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Table 1. - Symbols and definitions of the statistical parameters and formulas used in computing the tabulated estimates.

| Column | Symbol | Definition | Formula |
|---|---|---|---|
| 1. | p | Pressure Surface, 850, 700 mb., etc. | |
| 2. | J | Season (Initial Month) 12 is Winter, 03 is Spring. | |
| 3. | $\bar{\theta}$ | Direction of vector mean wind measured in degrees clockwise from North: 0° or 360° (N), 090° (E), 180° (S) and 270° (W). | = arctan $\bar{X}/\bar{Y}$, measured in degrees clockwise from North |
| 4. | $\lvert\bar{V}\rvert$ | Magnitude of vector mean wind. | = $\sum_{i=1}^{N} v_i/N$ where $v_i$ is an individual wind vector; $\lvert\bar{V}\rvert$ is the magnitude of the vector mean wind. |
| 5. | $S_v$ | Standard Vector Deviation. | = $\left[\frac{N\Sigma(\lvert v_i\rvert)^2 - \lvert(\Sigma v_i)\rvert^2}{N(N-1)}\right]^{1/2} = \left[S_x^2 + S_y^2\right]^{1/2}$ ; where $\lvert v_i\rvert$ is the magnitude of the individual wind vector. |
| 6. | $\bar{X}$ | Mean of the zonal (East-West) components of the wind. A minus sign (-) indicates a westerly component. A plus (+) indicates an easterly component. | = $\Sigma\lvert v_i\rvert \sin\theta_i/N$ |
| 7. | $S_x$ | Standard deviation of the zonal wind components. | = $\left[\frac{N\Sigma(\lvert v_i\rvert \sin\theta_i)^2 - (\Sigma\lvert v_i\rvert \sin\theta_i)^2}{N(N-1)}\right]^{1/2}$ |
| 8. | $\bar{Y}$ | Mean of the meridional (North-South) components of the wind. A minus sign (-) indicates a southerly component. A plus sign (+) indicates a northerly component. | = $\Sigma\lvert v_i\rvert \cos\theta_i/N$ |
| 9. | $S_y$ | Standard deviation of the meridional wind components. | = $\left[\frac{N\Sigma(\lvert v_i\rvert \cos\theta_i)^2 - (\Sigma\lvert v_i\rvert \cos\theta_i)^2}{N(N-1)}\right]^{1/2}$ |
| 10. | r | Correlation of the zonal to the meridional components. | = $\frac{N\Sigma(\lvert v_i\rvert \cos\theta_i)(\lvert v_i\rvert \sin\theta_i) - (\Sigma\lvert v_i\rvert \cos\theta_i)(\Sigma\lvert v_i\rvert \sin\theta_i)}{N(N-1)\,S_xS_y}$ |
| 11. | $\Psi$ | Angle of rotation of elliptic axes of wind distribution measured in degrees counter clockwise from the east-west axis; 090° (N), 180° (W), 270° (S) and 0° (E). | $\tan 2\Psi = 2\,r\,S_xS_y/(S_x^2 - S_y^2)$ |
| 12. | $S_a$ | Standard deviation of the wind components along the major axis of the ellipse. | = $\sqrt{k_1}$; $k_1 > k_2$; $\begin{vmatrix} S_x^2 - k, & S_xS_y\,r \\ S_xS_y\,r, & S_y^2 - k \end{vmatrix} = 0$ |
| 13. | $S_b$ | Standard deviation of the wind components along the minor axis of the ellipse. | = $\sqrt{k_2}$; $k_1$ and $k_2$ are the variances along the major and minor axes of the wind distribution ellipses. These are the solutions of the determinantal equation shown. |
| 14. | $S_v/S_s$ | Ratio of the standard vector deviation to the square root of the difference between the squares of the scalar and vector means. | = $\left[\left(\frac{\Sigma\lvert v_i\rvert}{N}\right)^2 - \left(\frac{\lvert(\Sigma v_i)\rvert}{N}\right)^2\right]^{1/2}$ |
| 15. | N | Number of observations used. | |

Note: The minus sign is placed after the number to which it applies.
Wind speed units are in knots.

Table 2. List of stations by geographical area

NORTH AMERICA

1. Alaska

| | Latitude N | Longitude | Hour (GMT) | 850 mb. level | Period of Record 700 & 500 mb. | 300 & 200 mb. |
|---|---|---|---|---|---|---|
| Adak | 51° 53' | 176° 40' W | 0300 | May '48-Jun '50<br>Aug '50-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Anchorage | 61° 13' | 149° 50' W | 0300 | May '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Annette I. | 55° 04' | 131° 33' W | 0300 | May '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Barrow | 71° 20' | 156° 24' W | 0300 | May '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Dutch Harbor | 53° 53' | 166° 32' W | 0300 | May '48-May '50<br>Jul '50-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Kodiak | 57° 45' | 152° 31' W | 0300 | Jun '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Nome | 64° 31' | 165° 26' W | 0300 | May '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Shemya | 52° 43' | 174° 06' E | 0300 | May '48-Aug '49<br>Dec '49-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Yakutat | 59° 31' | 139° 40' W | 0300 | May '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |

2. CANADA

| | | | | | | |
|---|---|---|---|---|---|---|
| Aklavik, N.W.T. | 68° 14' | 135° 00' W | 1500 | | Apr '49-Mar '54 | Apr '49-Mar '54 |
| Argentia, Nfld. | 47° 19' | 053° 59' W | 1500 | May '48-Mar '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Cambridge Bay, N.W.T. | 69° 07' | 105° 01' W | 1500 | | Apr '49-Mar '54 | Apr '49-Mar '54 |
| Chesterfield, N.W.T. | 63° 20' | 090° 43' W | 1500 | | Apr '49-Mar '54 | Apr '49-Mar '54 |
| Churchill, Man. | 58° 45' | 094° 04' W | 1500 | | Apr '49-Mar '54 | Apr '49-Mar '54 |
| Clyde River, N.W.T. | 70° 27' | 068° 33' W | 1500 | | Apr '49-Mar '54 | Apr '49-Mar '54 |
| Edmonton, Alta. | 53° 34' | 113° 31' W | 1500 | | Apr '49-Mar '54 | Apr '49-Mar '54 |
| Eureka, N.W.T. | 80° 00' | 085° 56' W | 1500 | | Apr '49-Mar '54 | Apr '49-Mar '54 |
| Fort Chimo, Que. | 58° 06' | 068° 26' W | 1500 | | Apr '49-Mar '54 | Apr '54-Mar '54 |
| Fort Nelson, B. C. | 58° 50' | 122° 35' W | 1500 | | Apr '49-Mar '54 | Apr '49-Mar '54 |
| Fort Smith, N.W.T. | 60° 01' | 111° 58' W | 1500 | | Apr '49-Mar '54 | Apr '49-Mar '54 |
| Frobisher, Baffin I. | 63° 45' | 068° 33' W | 1500 | May '48-Sep '52 | May '48-Apr '53 | Dec '48-Apr '53 |

2. CANADA (Cont'd.)

| | Latitude N | Longitude | Hour (GMT) | 850 mb. level | Period of Record 700 & 500 mb. | 300 & 200 mb. |
|---|---|---|---|---|---|---|
| Goose Bay, Lab. | 53° 20' | 060° 25' W | 1500 | May '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Lake Nitchequon, Que. | 53° 12' | 070° 35' W | 1500 | | Apr '49-Mar '54 | Apr '49-Mar '54 |
| McMurray, Alta. | 56° 39' | 119° 09' W | 1500 | | Apr '49-Mar '54 | Apr '49-Mar '54 |
| Moosonee, Ont. | 51° 16' | 080° 39' W | 1500 | | Apr '49-Mar '54 | Apr '49-Mar '54 |
| Mould Bay, N.W.T. | 76° 14' | 119° 20' W | 1500 | | Apr '49-Mar '54 | Apr '49-Mar '54 |
| Norman Wells, N.W.T. | 65° 18' | 126° 51' W | 1500 | | Apr '49-Mar '54 | Apr '49-Mar '54 |
| Port Harrison, Que. | 58° 27' | 078° 08' W | 1500 | | Apr '49-Mar '54 | Apr '49-Mar '54 |
| Prince Albert, Sask. | 53° 10' | 105° 45' W | 1500 | | Apr '49-Mar '54 | Apr '49-Mar '54 |
| Prince George, B. C. | 53° 53' | 122° 41' W | 1500 | | Apr '49-Mar '54 | Apr '49-Mar '54 |
| Resolute Bay, N.W.T. | 74° 43' | 094° 59' W | 1500 | | Apr '49-Mar '54 | Apr '49-Mar '54 |
| Sable I., N.S. | 43° 56' | 060° 02' W | 1500 | Apr '50-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Stephenville, Nfld. | 48° 32' | 058° 33' W | 1500 | May '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| The Pas, Man. | 53° 58' | 101° 06' W | 1500 | | Apr '49-Mar '54 | Apr '49-Mar '54 |
| Trout Lake, Ont. | 53° 50' | 089° 52' W | 1500 | | Apr '49-Mar '54 | Apr '49-Mar '54 |
| Watson Lake, Y. T. | 60° 08' | 128° 47' W | 1500 | | Apr '49-Mar '54 | Apr '49-Mar '54 |

3. UNITED STATES

| | Latitude N | Longitude | Hour (GMT) | Period of Record ALL LEVELS |
|---|---|---|---|---|
| Albuquerque, N. Mex. | 35° 03' | 106° 37' W | 1500 | Oct '47-Dec '52 |
| Big Spring, Tex. | 32° 14' | 101° 30' W | 1500 | Oct '47-Dec '52 |
| Billings, Mont. | 45° 48' | 108° 32' W | 1500 | Oct '47-Dec '52 |
| Bismarck, N. Dak. | 46° 46' | 100° 45' W | 1500 | Oct '47-Dec '52 |
| Boise, Idaho | 43° 34' | 116° 13' W | 1500 | Oct '47-Dec '52 |
| Brownsville, Tex. | 25° 54' | 097° 26' W | 1500 | Oct '47-Dec '52 |

3. UNITED STATES (Cont'd.)

| | Latitude N | Longitude | Hour (GMT) | Period of Record ALL LEVELS | |
|---|---|---|---|---|---|
| Burrwood, La. | 28° 58' | 089° 22' W | 1500 | Oct '47-Dec '52 | |
| Caribou, Maine | 46° 52' | 068° 01' W | 1500 | Oct '47-Dec '52 | |
| Charleston, S. C. | 32° 54' | 080° 02' W | 1500 | Oct '47-Dec '52 | |
| Columbia, Mo. | 38° 58' | 092° 22' W | 1500 | Oct '47-Dec '52 | |
| Denver, Colo. (Lowry AFB) | 39° 43' | 104° 54' W | 1500 | Oct '47-Dec '52 | |
| El Paso, Tex. | 31° 48' | 106° 24' W | 1500 | Apr '49-Mar '54 | |
| Ft. Worth, Tex. (Carswell AFB) | 32° 46' | 097° 27' W | 1500 | Oct '47-Dec '52 | |
| Grand Junction, Colo. | 39° 06' | 108° 32' W | 1500 | Oct '47-Dec '52 | |
| Green Bay, Wis. | 44° 29' | 088° 08' W | 1500 | Oct '47-Dec '52 | |
| Greensboro, N. C. | 36° 05' | 079° 57' W | 1500 | Oct '47-Dec '52 | |
| Hatteras, N. C. | 35° 13' | 075° 41' W | 1500 | Oct '47-Dec '52 | |
| International Falls, Minn. | 48° 34' | 093° 23' W | 1500 | Oct '47-Dec '52 | |
| | | | | 850,700,500 mb. | 300&200 mb.levels |
| Jacksonville, Fla. | 30° 35' | 081° 39' W | 1500 | May '48-Apr '53 | Dec '48-Apr '53 |
| Las Vegas, Nev. (Nellis AFB) | 36° 15' | 115° 02' W | 1500 | Oct '47-Dec '52 | |
| Little Rock, Ark. | 34° 44' | 092° 14' W | 1500 | Oct '47-Dec '52 | |
| Medford, Oreg. | 42° 22' | 122° 52' W | 1500 | Oct '47-Dec '52 | |
| Miami, Fla. | 25° 49' | 080° 17' W | 1500 | Oct '47-Dec '52 | |
| Montgomery, Ala. (Maxwell AFB) | 32° 23' | 086° 21' W | 1500 | Oct '47-Dec '52 | |
| Mt. Clemens, Mich. (Selfridge AFB) | 42° 36' | 082° 49' W | 1500 | Oct '47-Dec '52 | |
| Nantucket, Mass. | 41° 15' | 070° 04' W | 1500 | Oct '47-Dec '52 | |
| Nashville, Tenn. | 36° 07' | 086° 41' W | 1500 | Oct '47-Dec '52 | |
| New York, N. Y. | 40° 46' | 073° 52' W | 1500 | Oct '47-Dec '52 | |
| | | | | 850,700,500 mb. | 300 & 200 levels |
| Norfolk, Va. | 36° 53' | 076° 12' W | 1500 | May '48-Apr '53 | Dec '48-Apr '53 |
| Oakland, Calif. | 37° 44' | 122° 12' W | 0300 | May '48-Apr '53 | Dec '48-Apr '53 |

3. UNITED STATES (Cont'd.)

| | Latitude N | Longitude | Hour (GMT) | Period of Record ALL LEVELS |
|---|---|---|---|---|
| Ogden, Utah (Hill AFB) | 41° 07' | 111° 58' W | 1500 | Oct '47-Dec '52 |
| Oklahoma City, Okla. | 35° 24' | 097° 36' W | 1500 | Oct '47-Dec '52 |
| Omaha, Nebr. | 41° 18' | 095° 54' W | 1500 | Oct '47-Dec '52 |
| Rantoul, Ill. (Chanute AFB) | 40° 18' | 088° 09' W | 1500 | Oct '47-Dec '52 |
| Rapid City, S. Dak. | 44° 02' | 103° 03' W | 1500 | Oct '47-Dec '52 |
| Rome, N. Y. (Griffis AFB) | 43° 14' | 075° 25' W | 1500 | Oct '47-Dec '52 |
| San Antonio, Tex. | 29° 32' | 098° 28' W | 1500 | Oct '47-Dec '52 |
| San Diego, Calif. | 32° 44' | 117° 10' W | 1500 | Oct '47-Sep '50 |
| Santa Maria, Calif. | 34° 56' | 120° 25' W | 1500 | Oct '47-Dec '52 |
| Sault Ste. Marie, Mich. | 46° 28' | 084° 22' W | 1500 | Oct '47-Dec '52 |
| Spokane, Wash. | 47° 37' | 117° 31' W | 1500 | Oct '47-Dec '52 |
| St. Cloud, Minn. | 45° 35' | 094° 11' W | 1500 | Oct '47-Dec '52 |
| Tatoosh, Wash. | 48° 23' | 124° 44' W | 1500 | Oct '47-Dec '52 |
| Tucson, Ariz. (Davis-Monthan AFB) | 32° 11' | 110° 53' W | 1500 | Oct '47-Dec '52 |
| Washington, D. C. | 38° 50' | 077° 02' W | 1500 | Oct '47-Dec '52 |
| Selected Point | 40° 40' | 082° 00' W | 1500 | Oct '47-Dec '52 |
| Selected Point | 37° 20' | 112° 20' W | 1500 | Oct '47-Dec '52 |

## 4. MEXICO

| | Latitude N | Longitude | Hour (GMT) | Period of Record ALL LEVELS | | |
|---|---|---|---|---|---|---|
| Guaymas, Son. | 27° 52' | 110° 54' W | 1500 | Apr '49-Mar '54 | | |
| Mazatlan, Sin. | 23° 11' | 106° 26' W | 1500 | Apr '49-Mar '54 | | |
| | | | | 850 mb. level | 700 & 500 mb. | 300 & 200 mb. |
| Merida, Yuc. | 20° 56' | 089° 41' W | 1500 | Apr '50-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| | | | | | ALL LEVELS | |
| Mexico City, D. F. | 19° 26' | 099° 05' W | 1500 | | Apr '49-Mar '54 | |

## 5. CARIBBEAN

| | | | | | | |
|---|---|---|---|---|---|---|
| Balboa, Canal Zone | 08° 58' | 079° 35' W | 1500 | | Apr '49-Mar '54 | |
| Cayenne, French Guiana | 04° 50' | 052° 22' W | 0300 | | Aug '49-Oct '50<br>Dec '50-Mar '54 | |
| | | | | 850 mb. level | 700 & 500 mb. | 300 & 200 mb. |
| Guantanamo, Cuba | 19° 54' | 075° 09' W | 1500 | May '48-Mar '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Havana, Cuba | 23° 09' | 082° 21' W | 1500 | May '48-Jan '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| San Juan, Puerto Rico | 18° 28' | 066° 07' W | 1500 | May '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Swan Island, West Indies | 17° 24' | 083° 56' W | 1500 | Apr '49-Mar '54 | Apr '49-Mar '54 | Apr '49-Mar '54 |

## 6. ATLANTIC STATIONS

| | | | | | | |
|---|---|---|---|---|---|---|
| Bermuda, U. K. | 32° 22' | 064° 40' W | 1500 | May '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Keflavik, Iceland | 63° 57' | 022° 37' W | 1500 | May '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Lagens, Azores | 38° 45' | 027° 05' W | 1500 | May '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Ocean Station "A" | 62° 00' | 033° 00' W | 1500 | May '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Ocean Station "B" | 56° 30' | 051° 00' W | 1500 | May '48-Jul '48<br>Sep '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Ocean Station "C" | 52° 45' | 035° 30' W | 1500 | May '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Ocean Station "D" | 44° 00' | 041° 00' W | 1500 | Jan '49-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |

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## 6. ATLANTIC STATIONS (Cont'd.)

| | Latitude N | Longitude | Hour (GMT) | 850 mb. level | Period of Record 700 & 500 mb. | 300 & 200 mb. |
|---|---|---|---|---|---|---|
| Ocean Station "E" | 35° 00' | 048° 00' W | 1500 | Sep '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Ocean Station "H" | 36° 40' | 069° 35' W | 1500 | May '49-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Ocean Station "I" | 39° 00' | 019° 00' W | 1500 | May '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Ocean Station "J" | 52° 30' | 020° 00' W | 1500 | May '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Ocean Station "K" | 45° 00' | 016° 00' W | 1500 | May '48-Nov '48<br>Jun '49-Dec '50 | May '48-Apr '53 | Dec '48-Apr '53 |
| Ocean Station "M" | 66° 00' | 002° 00' E | 1500 | Jun '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |

## EUROPE

### 7. GREENLAND

| | | | | | | |
|---|---|---|---|---|---|---|
| Danmarkshavn | 76° 46' | 018° 46' W | | | 1951-2, 55-57 | |
| Kap Tobin | 70° 25' | 021° 58' W | | | 1951-2, 55-57 | |
| Narssarssuak | 61° 11' | 045° 25' W | 1500 | May '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Thule | 76° 05' | 069° 00' W | 1500 | Apr '49-Mar '54 | Apr '49-Mar '54 | Apr '49-Mar '54 |

### 8. GREAT BRITAIN AND IRELAND

| | | | | | | |
|---|---|---|---|---|---|---|
| Crawley, England | 51° 05' | 000° 13 W | 0300 | Jan '51-Dec '56 | Jan '51-Dec '56 | Jan '51-Dec '56 |
| Larkhill, England | 51° 11' | 001° 48' W | 1500 | May '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Lerwick, Scotland | 60° 08' | 001° 11' W | 1500 | May '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Stornoway, Scotland | 58° 13' | 006° 20' W | 0300 | Jan '51-Dec '56 | Jan '51-Dec '56 | Jan '51-Dec '56 |
| Valentia, Ireland | 51° 56' | 010° 15' W | 1500 | May '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |

### 9. NORWAY

| | | | | | | |
|---|---|---|---|---|---|---|
| Gardermoen | 60° 12' | 011° 05' E | 0300 | Jan '51-Dec '56 | Jan '51-Dec '56 | Jan '51-Dec '56 |
| Tromso | 69° 42' | 019° 01' E | 0300 | Apr '49-Mar '54 | Apr '49-Mar '54 | Apr '49-Mar '54 |

| | Latitude N | Longitude | Hour (GMT) | Period of Record 850 mb. level | 700 & 500 mb. | 300 & 200 mb. |
|---|---|---|---|---|---|---|
| **10. SWEDEN** | | | | | | |
| Stockholm | 59° 21' | 017° 57' E | 0300 | Apr '49-Mar '54 | Apr '49-Mar '54 | Apr '49-Mar '54 |
| **11. FRANCE** | | | | | | |
| Bordeaux | 44° 50' | 000° 43' W | 1500 | | May '48-Apr '53 | Dec '48-Apr '53 |
| Brest | 48° 27' | 004° 25' W | 1500 | | May '48-Apr '53 | Dec '48-Apr '53 |
| Nimes | 43° 52' | 004° 24' E | 0300 | Jan '51-Dec '56 | Jan '51-Dec '56 | Jan '51-Dec '56 |
| **12. GERMANY** | | | | | | |
| Berlin | 52° 29' | 013° 24' E | 0300 | Jan '51-Dec '56 | Jan '51-Dec '56 | Jan '51-Dec '56 |
| **13. PORTUGAL** | | | | | | |
| Funchal, Madeira Is. | 32° 38' | 016° 54' W | 1500 | | Apr '49-Mar '54 | Apr '49-Mar '54 |
| Lisbon (Portela) | 38° 46' | 009° 09' W | 1500 | | May '48-Apr '53 | Dec '48-Apr '53 |
| Sal, Cape Verde Is. | 16° 44' | 022° 57' W | 1500 | Jan '51-Jan '57 | Jan '51-Jan '57 | Jan '51-Jan '57 |
| **14. GREECE** | | | | | | |
| Athens | 37° 58' | 023° 43' E | 0300 | Jan '51-Dec '56 | Jan '51-Dec '56 | Jan '51-Dec '56 |
| **AFRICA** | | | | | | |
| **15. NORTH AFRICA** | | | | | | |
| Aoulef, Algeria | 26° 58' | 001° 05' E | 1400 | Dec '49-Dec '56 | Dec '49-Dec '56 | Dec '49-Dec '56 |
| Cairo, Egypt | 30° 08' | 031° 24' E | 1500 | Dec '49-Dec '56 | Dec '49-Dec '56 | Dec '49-Dec '56 |
| Dakar, Senegal | 14° 40' | 017° 26' W | 0600 | Jul '49-Sep '54<br>Jan '55<br>Jul '55-Aug '56 | Jul '49-Sep '54<br>Jan '55<br>Jul '55-Aug '56 | Jul '49-Sep '54<br>Jan '55<br>Jul '55-Aug '56 |
| Khartoum, Sudan | 15° 36' | 032° 33' E | 0600 | Dec '50-Dec '56 | Dec '50-Dec '56 | Dec '50-Dec '56 |
| Lagos, Nigeria | 06° 35' | 003° 20' E | 0600 | Jan '53-Jun '53<br>Sep '53-Jul '56<br>Sep '56-Dec '56 | Jan '53-Jun '53<br>Sep '53-Jul '56<br>Sep '56-Dec '56 | Jan '53-Jun '53<br>Sep '53-Jul '56<br>Sep '56-Dec '56 |
| Nairobi, Br. E. Africa | 01° 16'S | 036° 45' E | 0600 | Jul '49-Sep '54 | Jul '49-Sep '54 | Jul '49-Sep '54 |

15. NORTH AFRICA (Cont'd.)

| | Latitude N | Longitude | Hour (GMT) | 850 mb. level | Period of Record 700 & 500 mb. | 300 & 200 mb. |
|---|---|---|---|---|---|---|
| Niamey, Fr. Niger | 13° 29' | 002° 10' E | 0600 | Dec '50-Dec '56 | Dec '50-Dec '56 | Dec '50-Dec '56 |
| Port Lyautey, Morocco | 34° 16' | 006° 40' W | 1500 | May '48-Dec '48<br>Feb '49-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |

ASIA

16. USSR

| | | | | | | |
|---|---|---|---|---|---|---|
| Ashkhabad | 37° 58' | 058° 20' E | 0300 | Jan '51-Dec '56 | Jan '51-Dec '56 | Jan '51-Dec '56 |
| Irkutsk | 52° 16' | 104° 19' E | 0300 | Jan '51-Dec '56 | Jan '51-Dec '56 | Jan '51-Dec '56 |
| Kharkov | 49° 56' | 036° 17' E | 0300 | Jan '51-Dec '56 | Jan '51-Dec '56 | Jan '51-Dec '56 |
| Petropavlovsk (Nakamchatke) | 52° 58' | 158° 45' E | 0300 | Jan '51-Dec '56 | Jan '51-Dec '56 | Jan '51-Dec '56 |
| Saratov | 51° 34' | 046° 02' E | 0300 | Jan '51-Dec '56 | Jan '51-Dec '56 | Jan '51-Dec '56 |
| Sverdlovsk | 56° 48' | 060° 38' E | 0300 | Jan '51-Dec '56 | Jan '51-Dec '56 | Jan '51-Dec '56 |
| Yakutsk | 62° 01' | 129° 43' E | 0300 | Jan '51-Dec '56 | Jan '51-Dec '56 | Jan '51-Dec '56 |
| Mys Chelyuskin | 77° 43' | 104° 17' E | 1500 | | 1951-2, 55-57 | |
| Mys Zhelania | 76° 45' | 069° 00' E | 1500 | | 1951-2, 55-57 | |
| Khatanga | 71° 59' | 102° 28' E | 1500 | | 1951-2, 55-57 | |
| Bukhta Tiksi | 71° 35' | 128° 55' E | 1500 | | 1951-2, 55-57 | |
| Ostrov Chetyrekh-Stolbovoy | 70° 38' | 162° 24' E | 1500 | | 1951-2, 55-57 | |
| Turukhansk | 65° 47' | 87° 57' E | 1500 | | 1951-2, 55-57 | |

17. HONG KONG

| | | | | | | |
|---|---|---|---|---|---|---|
| Hong Kong | 22° 18' | 114° 10' E | 0300 | Jan '50-Apr '55<br>Jun '55-Dec '55 | Jan '50-Apr '55<br>Jun '55-Dec '55 | Jan '50-Apr '55<br>Jun '55-Dec '55 |

18. JAPAN

| | | | | | | |
|---|---|---|---|---|---|---|
| Fukuoka | 33° 35' | 130° 23' E | 0300 | May '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Furumaki | 40° 41' | 141° 22' E | 0300 | May '48-Oct '52<br>Dec '52-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Tateno | 36° 03' | 140° 08' E | 0300 | Jan '51-Dec '56 | Jan '51-Dec '56 | Jan '51-Dec '56 |
| Tokyo | 35° 41' | 139° 46' E | 0300 | May '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Wakkanai | 45° 25' | 141° 41' E | 0300 | Jan '51-Dec '56 | Jan '51-Dec '56 | Jan '51-Dec '56 |

| | Latitude N | Longitude | Hour (GMT) | Period of Record 850 mb. level | 700 & 500 mb. | 300 & 200 mb. |
|---|---|---|---|---|---|---|
| **19. ARABIAN PENINSULA** | | | | | | |
| Aden, Br. Prot. | 12° 50' | 045° 01' E | 0300 | Jan '51-Oct '55 | Jan '51-Oct '55 | Jan '51-Oct '55 |
| Bahrein, Arabia | 26° 16' | 050° 37' E | 0300 | Jan '51-Oct '55 | Jan '51-Oct '55 | Jan '51-Oct '55 |
| **20. IRAQ** | | | | | | |
| Habbaniya | 33° 22' | 043° 34' E | 0300 | Jan '51-Oct '55 | Jan '51-Oct '55 | Jan '51-Oct '55 |
| **21. INDIA** | | | | | | |
| Calcutta | 22° 39' | 088° 27' E | 0300 | Jan '44-Dec '48 | Jan '44-Dec '48 | Jan '44-Dec '48 |
| Trivandrum | 08° 29' | 076° 57' E | 0300 | Jan '44-Dec '48 | Jan '44-Dec '48 | Jan '44-Dec '48 |
| Veraval | 20° 54' | 070° 22' E | 0300 | Jan '44-Dec '48 | Jan '44-Dec '48 | Jan '44-Dec '48 |
| **22. KOREA** | | | | | | |
| Seoul | 37° 34' | 126° 58' E | 0300 | May '48-Oct '48<br>Oct '50-May '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| **23. PHILIPPINES** | | | | | | |
| Angeles, Luzon | 15° 10' | 120° 34' E | 0300 | Nov '48-Oct '54 | Nov '48-Oct '54 | Nov '48-Oct '54 |
| **24. MALAYA** | | | | | | |
| Singapore | 01° 21' | 103° 54' E | 0300 | Oct '49-Dec '54 | Oct '49-Dec '54 | Oct '49-Dec '54 |
| **25. PACIFIC STATIONS** | | | | | | |
| Guam, Marianas Is. | 13° 31' | 144° 49' E | 0300 | May '48-Mar '52<br>Jun '52-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Honolulu, Oahu, T. H. | 21° 20' | 157° 55' W | 0300 | May '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Iwo Jima | 24° 47' | 141° 20' E | 0300 | May '48-Apr '51<br>Aug '51<br>Dec '51-Feb '52 | May '48-Apr '53 | Dec '48-Apr '53 |
| Johnston I. | 16° 44' | 169° 32' W | 0300 | May '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Koror, Caroline Is. | 07° 21' | 134° 29' E | 0300 | Nov '49-Jun '55 | Nov '49-Jun '55 | Nov '49-Jun '55 |
| Kwajalein, Marshall Is. | 08° 43' | 167° 44' E | 0300 | Jan '49-Dec '54 | Jan '49-Dec '54 | Jan '49-Dec '54 |

25. PACIFIC STATIONS (Cont'd.)

| | Latitude N | Longitude | Hour (GMT) | 850 mb. level | Period of Record 700 & 500 mb. | 300 & 200 mb. |
|---|---|---|---|---|---|---|
| Marcus I. | 24° 17' | 153° 58' E | 0300 | Nov '51-Mar '52<br>May '52-Jun '52 | May '48-Apr '53 | Dec '48-Apr '53 |
| Midway I. | 28° 13' | 177° 23' W | 0300 | May '48-Feb '49<br>Apr '49-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Okinawa I. | 26° 12' | 127° 39' E | 0300 | May '48-Aug '48<br>Oct '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Truk, Caroline Is. | 07° 27' | 151° 50' E | 0300 | Jul '51-Jun '55 | Jul '51-Jun '55 | Jul '51-Jun '55 |
| Wake Island | 19° 17' | 166° 39' E | 0300 | May '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Ocean Station "N" | 32° 30' | 135° 00' W | 0300 | May '48-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Ocean Station "P" | 50° 00' | 145° 00' W | 0300 | Sep '48-Mar '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Ocean Station "Q" | 43° 00' | 167° 00' W | 0300 | Apr '52-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Ocean Station "S" | 48° 00' | 162° 00' W | 0300 | Sep '50-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Ocean Station "U" | 27° 40' | 145° 00' W | 0300 | Dec '50-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Ocean Station "V" | 31° 00' | 164° 00' E | 0300 | Nov '50-Apr '53 | May '48-Apr '53 | Dec '48-Apr '53 |
| Ocean Station "X" | 39° 00' | 153° 00' E | 0300 | Nov '51-Dec '51<br>Feb '52-Mar '52<br>May '52-Jun '52 | May '48-Apr '53 | Dec '48-Apr '53 |
| Selected Point | 40° 00' | 150° 00' W | 0300 | | May '48-Apr '53 | Dec '48-Apr '53 |
| Selected Point | 40° 00' | 175° 00' E | 0300 | | May '48-Apr '53 | Dec '48-Apr '53 |

| P | J | $\bar{\theta}$ | $\|\bar{V}\|$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 232 | 7.095 | 26.496 | 5.613- | 19.605 | 4.339- | 17.823 | .089 | 21.5 | 19.920 | 17.470 | 1.132 | 369 |
| 850 | 03 | 253 | 7.361 | 23.338 | 7.035- | 16.465 | 2.168- | 16.540 | .015 | 53.0 | 16.638 | 16.366 | 1.164 | 351 |
| 850 | 06 | 240 | 10.575 | 20.781 | 9.180- | 14.330 | 5.249- | 15.050 | .086 | 60.0 | 15.405 | 13.948 | 1.202 | 387 |
| 850 | 09 | 269 | 11.536 | 23.862 | 11.534- | 18.303 | 0.211- | 15.309 | .003- | 179.5 | 18.303 | 15.309 | 1.144 | 364 |
| 700 | 12 | 250 | 20.864 | 40.751 | 19.561- | 28.735 | 7.258- | 28.897 | .526 | 45.5 | 35.601 | 19.833 | 1.250 | 451 |
| 700 | 03 | 263 | 11.810 | 26.710 | 11.717- | 18.352 | 1.475- | 19.408 | .023 | 78.5 | 19.453 | 18.305 | 1.186 | 460 |
| 700 | 06 | 253 | 15.084 | 23.155 | 14.390- | 15.871 | 4.523- | 16.860 | .053 | 69.0 | 17.021 | 15.698 | 1.185 | 460 |
| 700 | 09 | 272 | 17.959 | 26.223 | 17.946- | 18.590 | 0.690 | 18.495 | .110- | 136.5 | 19.540 | 17.488 | 1.176 | 455 |
| 500 | 12 | 236 | 22.180 | 36.618 | 18.294- | 27.088 | 12.541- | 24.641 | .020- | 174.0 | 27.114 | 24.612 | 1.214 | 452 |
| 500 | 03 | 261 | 19.297 | 32.981 | 19.070- | 23.608 | 2.957- | 23.030 | .023 | 22.0 | 23.717 | 22.918 | 1.177 | 459 |
| 500 | 06 | 255 | 20.116 | 29.512 | 19.443- | 19.735 | 5.158- | 21.943 | .065 | 74.0 | 22.124 | 19.532 | 1.169 | 460 |
| 500 | 09 | 268 | 27.343 | 31.834 | 27.323- | 23.329 | 1.067- | 21.661 | .058- | 161.0 | 23.545 | 21.426 | 1.230 | 451 |
| 300 | 12 | 239 | 32.575 | 45.664 | 27.810- | 32.516 | 16.963- | 32.062 | .050- | 143.0 | 33.122 | 31.435 | 1.224 | 448 |
| 300 | 03 | 257 | 31.396 | 44.087 | 30.637- | 30.430 | 6.857- | 31.900 | .106- | 123.0 | 32.937 | 29.305 | 1.178 | 429 |
| 300 | 06 | 260 | 28.519 | 37.343 | 28.048- | 23.808 | 5.165- | 28.770 | .003 | 89.5 | 28.770 | 23.808 | 1.140 | 368 |
| 300 | 09 | 268 | 40.729 | 42.432 | 40.706- | 29.213 | 1.370- | 30.775 | .066- | 116.0 | 31.248 | 28.706 | 1.225 | 364 |
| 200 | 12 | 239 | 37.172 | 40.523 | 32.016- | 29.210 | 18.888- | 28.086 | .089- | 147.0 | 30.020 | 27.219 | 1.254 | 450 |
| 200 | 03 | 257 | 34.238 | 39.377 | 33.403- | 25.757 | 7.514- | 29.786 | .113- | 109.0 | 30.282 | 25.172 | 1.199 | 429 |
| 200 | 06 | 261 | 30.288 | 36.385 | 29.954- | 23.645 | 4.484- | 27.655 | .067 | 78.5 | 27.820 | 23.450 | 1.155 | 368 |
| 200 | 09 | 271 | 44.343 | 40.475 | 44.339- | 26.618 | 0.611 | 30.490 | .066- | 103.0 | 30.696 | 26.380 | 1.219 | 364 |

## Anchorage, Alaska

| P | J | $\bar{\theta}$ | $\|\bar{V}\|$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 051 | 2.883 | 18.405 | 2.246 | 8.445 | 1.808 | 16.353 | .052- | 92.0 | 16.361 | 08.429 | 1.206 | 396 |
| 850 | 03 | 123 | 5.017 | 12.009 | 4.218 | 6.535 | 2.717- | 10.075 | .100- | 96.5 | 10.111 | 06.479 | 1.204 | 449 |
| 850 | 06 | 154 | 5.214 | 11.472 | 2.303 | 6.956 | 4.678- | 9.123 | .000 | 90.0 | 9.123 | 06.956 | 1.211 | 437 |
| 850 | 09 | 125 | 5.255 | 15.470 | 4.308 | 7.991 | 3.009- | 13.245 | .188- | 100.0 | 13.375 | 07.771 | 1.205 | 422 |
| 700 | 12 | 247 | 3.072 | 26.964 | 2.827- | 16.324 | 1.203- | 21.461 | .159- | 105.0 | 21.805 | 15.861 | 1.192 | 451 |
| 700 | 03 | 157 | 8.823 | 20.412 | 3.469 | 13.276 | 8.113- | 15.505 | .321- | 122.0 | 16.791 | 11.607 | 1.242 | 460 |
| 700 | 06 | 184 | 5.932 | 16.917 | 0.464- | 11.977 | 5.914- | 11.946 | .030- | 137.5 | 12.142 | 11.778 | 1.169 | 460 |
| 700 | 09 | 170 | 9.335 | 22.521 | 1.551 | 12.230 | 9.205- | 18.910 | .181- | 101.0 | 19.124 | 11.892 | 1.240 | 455 |
| 500 | 12 | 266 | 12.251 | 34.074 | 12.223- | 21.747 | 0.838- | 26.232 | .115- | 105.5 | 26.581 | 21.318 | 1.166 | 451 |
| 500 | 03 | 203 | 8.436 | 28.510 | 3.299- | 19.955 | 7.763- | 20.362 | .132- | 130.5 | 21.468 | 18.760 | 1.204 | 460 |
| 500 | 06 | 229 | 6.961 | 25.351 | 5.279- | 18.935 | 4.537- | 16.857 | .040 | 9.5 | 18.994 | 16.791 | 1.178 | 460 |
| 500 | 09 | 202 | 12.030 | 30.093 | 4.597- | 18.324 | 11.117- | 23.870 | .022 | 87.5 | 23.878 | 18.313 | 1.208 | 455 |
| 300 | 12 | 270 | 23.331 | 42.110 | 23.330- | 27.182 | 0.146 | 32.162 | .074- | 102.0 | 32.374 | 26.929 | 1.183 | 450 |
| 300 | 03 | 233 | 13.777 | 39.073 | 11.057- | 27.585 | 8.218- | 27.672 | .101- | 134.0 | 29.002 | 26.183 | 1.205 | 427 |
| 300 | 06 | 253 | 12.544 | 39.782 | 11.982- | 29.631 | 3.715- | 26.543 | .072 | 16.5 | 29.919 | 26.218 | 1.187 | 368 |
| 300 | 09 | 214 | 19.933 | 41.989 | 11.147- | 28.280 | 16.524- | 31.037 | .020 | 83.5 | 31.069 | 28.245 | 1.185 | 366 |
| 200 | 12 | 271 | 27.051 | 34.861 | 27.047- | 22.550 | 0.483 | 26.585 | .119- | 108.0 | 27.018 | 22.029 | 1.232 | 450 |
| 200 | 03 | 247 | 15.551 | 27.140 | 14.337- | 19.350 | 6.024- | 19.031 | .067- | 142.0 | 19.844 | 18.516 | 1.259 | 429 |
| 200 | 06 | 257 | 15.737 | 32.038 | 15.338- | 23.923 | 3.523- | 21.310 | .035 | 8.5 | 23.978 | 21.248 | 1.218 | 368 |
| 200 | 09 | 230 | 21.902 | 34.681 | 16.897- | 22.262 | 13.934- | 26.593 | .059- | 99.5 | 26.702 | 22.132 | 1.207 | 364 |

## Annette I., Alaska

| P | J | $\bar{\theta}$ | $\|\bar{V}\|$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 202 | 5.200 | 20.747 | 1.942- | 12.390 | 4.823- | 16.641 | .115- | 100.5 | 16.774 | 12.210 | 1.146 | 360 |
| 850 | 03 | 181 | 7.597 | 16.560 | 0.083- | 9.990 | 7.597- | 13.207 | .158- | 104.5 | 13.411 | 09.714 | 1.225 | 393 |
| 850 | 06 | 233 | 1.943 | 14.048 | 1.542- | 8.243 | 1.183- | 11.376 | .274- | 110.0 | 11.781 | 07.653 | 1.201 | 430 |
| 850 | 09 | 195 | 8.846 | 17.874 | 2.314- | 10.823 | 8.538- | 14.224 | .325- | 115.0 | 15.015 | 09.696 | 1.215 | 378 |
| 700 | 12 | 242 | 10.908 | 25.407 | 9.598- | 15.116 | 5.182- | 20.421 | .033 | 87.0 | 20.435 | 15.097 | 1.135 | 451 |
| 700 | 03 | 213 | 11.350 | 20.311 | 6.128- | 13.197 | 9.554- | 15.440 | .104- | 107.0 | 15.647 | 12.951 | 1.192 | 460 |
| 700 | 06 | 256 | 6.153 | 18.465 | 5.977- | 11.978 | 1.458- | 14.053 | .170- | 113.5 | 14.489 | 11.447 | 1.167 | 460 |
| 700 | 09 | 228 | 15.537 | 21.063 | 11.548- | 13.235 | 10.395- | 16.386 | .088- | 101.0 | 16.502 | 13.090 | 1.180 | 455 |
| 500 | 12 | 272 | 20.361 | 35.682 | 20.349- | 21.343 | 0.693 | 28.595 | .019- | 92.0 | 28.602 | 21.334 | 1.158 | 451 |
| 500 | 03 | 238 | 17.344 | 30.671 | 14.658- | 20.739 | 9.272- | 22.597 | .191- | 123.0 | 23.848 | 19.288 | 1.177 | 460 |
| 500 | 06 | 273 | 11.821 | 27.720 | 11.810- | 19.610 | 0.526 | 19.592 | .096- | 135.5 | 20.524 | 18.632 | 1.183 | 460 |
| 500 | 09 | 246 | 23.024 | 30.083 | 21.090- | 19.165 | 9.237- | 23.189 | .095- | 103.0 | 23.402 | 18.905 | 1.167 | 454 |
| 300 | 12 | 276 | 34.748 | 43.149 | 34.565- | 26.730 | 3.556 | 33.871 | .009 | 89.0 | 33.874 | 26.726 | 1.172 | 451 |
| 300 | 03 | 251 | 25.938 | 43.026 | 24.472- | 26.857 | 8.597- | 33.614 | .081- | 100.0 | 33.804 | 26.617 | 1.155 | 429 |
| 300 | 06 | 281 | 19.130 | 41.476 | 18.798- | 29.624 | 3.548 | 29.028 | .073- | 143.0 | 30.421 | 28.192 | 1.151 | 368 |
| 300 | 09 | 253 | 32.340 | 43.572 | 30.930- | 27.550 | 9.444- | 33.757 | .099- | 103.0 | 34.069 | 27.163 | 1.170 | 364 |
| 200 | 12 | 284 | 37.630 | 36.937 | 36.481- | 22.135 | 9.229 | 29.570 | .026- | 92.5 | 29.584 | 22.117 | 1.186 | 449 |
| 200 | 03 | 262 | 25.538 | 34.994 | 25.278- | 22.824 | 3.632- | 26.526 | .111- | 108.0 | 26.942 | 22.332 | 1.183 | 429 |
| 200 | 06 | 281 | 21.691 | 35.179 | 21.277- | 23.207 | 4.218 | 26.439 | .116- | 111.0 | 26.950 | 22.611 | 1.186 | 368 |
| 200 | 09 | 258 | 34.600 | 38.367 | 33.876- | 25.297 | 7.043- | 28.845 | .088- | 107.0 | 29.182 | 24.907 | 1.222 | 364 |

## Barrow, Alaska

| P | J | $\bar{\theta}$ | $\|\bar{V}\|$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 051 | 3.229 | 21.108 | 2.501 | 17.709 | 2.043 | 11.486 | .020 | 1.5 | 17.712 | 11.482 | 1.164 | 424 |
| 850 | 03 | 093 | 4.278 | 17.299 | 4.274 | 14.097 | 0.195- | 10.026 | .254 | 18.0 | 14.508 | 09.422 | 1.216 | 446 |
| 850 | 06 | 203 | 4.827 | 17.460 | 1.915- | 13.998 | 4.431- | 10.436 | .338 | 24.5 | 14.774 | 09.306 | 1.169 | 443 |
| 850 | 09 | 104 | 4.094 | 17.881 | 3.970 | 15.190 | 0.997- | 9.433 | .255 | 13.5 | 15.480 | 08.950 | 1.168 | 430 |
| 700 | 12 | 301 | 4.230 | 22.615 | 3.623- | 17.362 | 2.182 | 14.491 | .032- | 175.0 | 17.383 | 14.466 | 1.148 | 447 |
| 700 | 03 | 164 | 2.001 | 19.282 | 0.549 | 14.540 | 1.924- | 12.664 | .169 | 25.5 | 15.040 | 12.067 | 1.161 | 460 |
| 700 | 06 | 220 | 8.941 | 19.077 | 5.690- | 13.891 | 6.897- | 13.075 | .259 | 38.5 | 15.179 | 11.555 | 1.197 | 460 |
| 700 | 09 | 204 | 2.970 | 19.353 | 1.203- | 15.654 | 2.715- | 11.379 | .136 | 11.5 | 15.810 | 11.161 | 1.165 | 456 |
| 500 | 12 | 284 | 11.070 | 28.852 | 10.738- | 20.788 | 2.690 | 20.008 | .031- | 160.0 | 20.902 | 19.889 | 1.168 | 453 |
| 500 | 03 | 224 | 5.900 | 27.553 | 4.076- | 19.925 | 4.266- | 19.030 | .095 | 32.0 | 20.489 | 18.422 | 1.171 | 460 |
| 500 | 06 | 228 | 12.614 | 24.434 | 9.303- | 17.468 | 8.517- | 17.085 | .064 | 35.5 | 17.860 | 16.675 | 1.209 | 462 |
| 500 | 09 | 240 | 7.736 | 23.524 | 6.667- | 17.287 | 3.923- | 15.955 | .014 | 5.0 | 17.297 | 15.944 | 1.196 | 455 |
| 300 | 12 | 277 | 17.903 | 34.610 | 17.788- | 23.870 | 2.031 | 25.060 | .145- | 125.5 | 26.279 | 22.521 | 1.202 | 441 |
| 300 | 03 | 247 | 11.590 | 34.722 | 10.663- | 24.986 | 4.539- | 24.110 | .009 | 7.0 | 24.999 | 24.096 | 1.175 | 429 |
| 300 | 06 | 236 | 14.523 | 35.471 | 12.097- | 25.224 | 8.038- | 24.939 | .043 | 37.5 | 25.638 | 24.513 | 1.211 | 368 |
| 300 | 09 | 241 | 14.341 | 30.855 | 12.546- | 21.667 | 6.946- | 21.967 | .073- | 129.5 | 22.622 | 20.982 | 1.238 | 364 |
| 200 | 12 | 272 | 21.266 | 27.621 | 21.255- | 19.003 | 0.686 | 20.045 | .178- | 126.5 | 21.266 | 17.625 | 1.245 | 451 |
| 200 | 03 | 241 | 12.810 | 25.677 | 11.250- | 18.743 | 6.129- | 17.550 | .007- | 177.0 | 18.746 | 17.546 | 1.226 | 429 |
| 200 | 06 | 243 | 12.629 | 26.491 | 11.290- | 18.880 | 5.658- | 18.583 | .025 | 29.0 | 19.011 | 18.449 | 1.247 | 369 |
| 200 | 09 | 241 | 16.470 | 25.873 | 14.445- | 17.949 | 7.910- | 18.635 | .155- | 128.0 | 19.702 | 16.771 | 1.341 | 364 |

## Dutch Harbor, Alaska

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 244 | 7.215 | 24.766 | 6.495- | 16.203 | 3.143- | 18.730 | .030- | 96.0 | 18.755 | 16.174 | 1.155 | 300 |
| 850 | 03 | 237 | 4.443 | 22.606 | 3.721- | 14.697 | 2.429- | 17.177 | .161- | 113.0 | 17.671 | 14.099 | 1.153 | 316 |
| 850 | 06 | 237 | 8.998 | 19.558 | 7.559- | 13.733 | 4.882- | 13.926 | .011- | 109.5 | 13.952 | 13.707 | 1.215 | 370 |
| 850 | 09 | 281 | 8.109 | 23.285 | 7.968- | 15.702 | 1.503 | 17.195 | .125- | 117.0 | 17.693 | 15.138 | 1.164 | 390 |
| 700 | 12 | 246 | 13.724 | 27.703 | 12.559- | 19.059 | 5.533- | 20.104 | .034- | 106.5 | 20.201 | 18.956 | 1.160 | 451 |
| 700 | 03 | 255 | 10.386 | 25.177 | 10.013- | 16.623 | 2.760- | 18.910 | .205- | 119.0 | 19.832 | 15.512 | 1.148 | 460 |
| 700 | 06 | 236 | 12.430 | 23.761 | 10.347- | 17.137 | 6.889- | 16.458 | .104 | 34.5 | 17.718 | 15.831 | 1.161 | 460 |
| 700 | 09 | 269 | 14.070 | 25.430 | 14.068- | 17.068 | 0.213- | 18.850 | .055- | 104.5 | 18.974 | 16.930 | 1.150 | 455 |
| 500 | 12 | 246 | 21.350 | 36.223 | 19.541- | 25.248 | 8.602- | 25.973 | .081- | 125.5 | 26.695 | 24.484 | 1.176 | 451 |
| 500 | 03 | 257 | 16.334 | 31.330 | 15.911- | 22.444 | 3.690- | 21.860 | .199- | 139.0 | 24.281 | 19.799 | 1.175 | 460 |
| 500 | 06 | 246 | 18.165 | 30.168 | 16.533- | 21.468 | 7.526- | 21.195 | .022 | 30.0 | 21.603 | 21.057 | 1.172 | 460 |
| 500 | 09 | 266 | 21.323 | 31.107 | 21.270- | 21.133 | 1.490- | 22.826 | .109- | 117.5 | 23.415 | 20.478 | 1.180 | 459 |
| 300 | 12 | 249 | 30.633 | 42.217 | 28.626- | 29.534 | 10.904- | 30.395 | .058- | 122.0 | 30.926 | 28.978 | 1.190 | 451 |
| 300 | 03 | 259 | 25.830 | 40.866 | 25.315- | 28.077 | 5.137- | 29.694 | .194- | 127.0 | 31.688 | 25.805 | 1.188 | 428 |
| 300 | 06 | 255 | 26.151 | 39.087 | 25.295- | 25.924 | 6.639- | 29.253 | .171 | 62.5 | 30.385 | 24.588 | 1.172 | 368 |
| 300 | 09 | 263 | 30.863 | 42.683 | 30.623- | 28.456 | 3.843- | 31.813 | .202- | 120.5 | 33.469 | 26.489 | 1.184 | 364 |
| 200 | 12 | 248 | 31.158 | 39.982 | 28.921- | 27.973 | 11.594- | 28.567 | .154- | 131.0 | 30.400 | 25.969 | 1.199 | 449 |
| 200 | 03 | 256 | 27.557 | 37.450 | 26.770- | 24.490 | 6.537- | 28.331 | .155- | 113.5 | 29.140 | 23.522 | 1.206 | 429 |
| 200 | 06 | 256 | 26.427 | 36.978 | 25.689- | 23.977 | 6.204- | 28.151 | .145 | 69.0 | 28.814 | 23.176 | 1.164 | 368 |
| 200 | 09 | 264 | 32.209 | 36.377 | 32.023- | 24.376 | 3.450- | 27.002 | .127- | 115.5 | 27.733 | 23.541 | 1.164 | 364 |

## Kodiak, Alaska

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 306 | 10.059 | 22.511 | 8.167- | 14.310 | 5.872 | 17.378 | .028- | 94.0 | 17.393 | 14.292 | 1.204 | 233 |
| 850 | 03 | 288 | 4.581 | 17.848 | 4.356- | 12.866 | 1.417 | 12.370 | .018 | 12.5 | 12.891 | 12.344 | 1.297 | 232 |
| 850 | 06 | 278 | 8.264 | 16.073 | 8.174- | 11.687 | 1.218 | 11.035 | .071- | 154.5 | 11.874 | 10.833 | 1.253 | 210 |
| 850 | 09 | 294 | 6.190 | 17.137 | 5.670- | 10.524 | 2.483 | 13.523 | .021 | 87.5 | 13.528 | 10.518 | 1.182 | 245 |
| 700 | 12 | 284 | 8.631 | 27.764 | 8.360- | 18.560 | 2.145 | 20.650 | .164- | 118.5 | 21.460 | 17.618 | 1.152 | 450 |
| 700 | 03 | 194 | 4.947 | 21.364 | 1.219- | 14.835 | 4.795- | 15.374 | .170- | 129.0 | 16.371 | 13.727 | 1.141 | 461 |
| 700 | 06 | 227 | 5.830 | 21.301 | 4.267- | 15.553 | 3.972- | 14.554 | .142- | 147.5 | 16.199 | 13.831 | 1.139 | 459 |
| 700 | 09 | 226 | 6.222 | 22.387 | 4.467- | 14.118 | 4.331- | 17.374 | .136- | 106.5 | 17.658 | 13.762 | 1.147 | 455 |
| 500 | 12 | 268 | 16.206 | 33.910 | 16.197- | 22.341 | 0.558- | 25.510 | .063- | 102.5 | 25.668 | 22.160 | 1.175 | 451 |
| 500 | 03 | 228 | 9.263 | 28.317 | 6.922- | 21.382 | 6.157- | 18.566 | .044- | 171.5 | 21.446 | 18.493 | 1.169 | 460 |
| 500 | 06 | 246 | 10.571 | 27.473 | 9.663- | 19.971 | 4.286- | 18.866 | .127- | 147.0 | 20.734 | 18.024 | 1.135 | 461 |
| 500 | 09 | 230 | 12.054 | 29.216 | 9.246- | 17.433 | 7.733- | 23.444 | .018- | 92.0 | 23.449 | 17.426 | 1.178 | 455 |
| 300 | 12 | 268 | 27.033 | 41.077 | 27.018- | 26.768 | 0.896- | 31.158 | .105- | 107.5 | 31.595 | 26.251 | 1.196 | 450 |
| 300 | 03 | 249 | 17.081 | 36.678 | 15.936- | 25.563 | 6.150- | 26.303 | .091- | 126.5 | 27.150 | 24.662 | 1.186 | 428 |
| 300 | 06 | 254 | 19.292 | 37.217 | 18.512- | 26.458 | 5.431- | 26.174 | .024 | 33.0 | 26.661 | 25.967 | 1.153 | 368 |
| 300 | 09 | 234 | 21.650 | 40.760 | 17.546- | 26.573 | 12.683- | 30.907 | .047- | 98.5 | 31.002 | 26.462 | 1.168 | 364 |
| 200 | 12 | 267 | 29.728 | 36.276 | 29.685- | 23.310 | 1.583- | 27.795 | .093- | 104.0 | 28.062 | 22.988 | 1.228 | 449 |
| 200 | 03 | 252 | 20.824 | 29.418 | 19.758- | 20.499 | 6.577- | 21.100 | .016- | 105.0 | 21.144 | 20.453 | 1.218 | 429 |
| 200 | 06 | 260 | 21.358 | 33.348 | 21.016- | 24.486 | 3.810- | 22.639 | .024 | 8.5 | 24.527 | 22.595 | 1.179 | 368 |
| 200 | 09 | 244 | 25.375 | 36.297 | 22.736- | 23.883 | 11.269- | 27.333 | .087- | 106.5 | 27.639 | 23.528 | 1.178 | 364 |

## Nome, Alaska

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 039 | 4.554 | 22.853 | 2.867 | 15.573 | 3.539 | 16.725 | .073 | 67.0 | 16.952 | 15.326 | 1.199 | 542 |
| 850 | 03 | 119 | 3.900 | 16.847 | 3.395 | 11.620 | 1.918- | 12.198 | .004- | 92.5 | 12.199 | 11.619 | 1.204 | 551 |
| 850 | 06 | 201 | 4.966 | 16.266 | 1.750- | 11.978 | 4.647- | 11.005 | .010 | 3.5 | 11.981 | 11.002 | 1.177 | 552 |
| 850 | 09 | 109 | 2.471 | 18.397 | 2.330 | 12.701 | 0.825- | 13.309 | .053- | 114.5 | 13.470 | 12.530 | 1.153 | 546 |
| 700 | 12 | 324 | 5.091 | 26.996 | 2.962- | 18.596 | 4.141 | 19.570 | .011- | 96.0 | 19.568 | 18.598 | 1.174 | 542 |
| 700 | 03 | 156 | 3.699 | 20.552 | 1.503 | 13.363 | 3.380- | 15.615 | .094- | 105.5 | 15.792 | 13.154 | 1.171 | 552 |
| 700 | 06 | 211 | 6.351 | 19.891 | 3.291- | 14.294 | 5.432- | 13.833 | .050- | 151.5 | 14.502 | 13.614 | 1.177 | 552 |
| 700 | 09 | 217 | 1.702 | 21.198 | 1.030- | 14.016 | 1.355- | 15.903 | .014- | 93.5 | 15.905 | 14.014 | 1.145 | 546 |
| 500 | 12 | 280 | 10.859 | 36.129 | 10.706- | 25.161 | 1.812 | 25.928 | .004 | 85.5 | 25.936 | 25.153 | 1.167 | 542 |
| 500 | 03 | 195 | 4.922 | 28.373 | 1.255- | 19.656 | 4.760- | 20.462 | .086- | 122.5 | 21.023 | 19.055 | 1.171 | 552 |
| 500 | 06 | 233 | 7.124 | 26.865 | 5.674- | 18.706 | 4.307- | 19.283 | .057- | 121.0 | 19.581 | 18.394 | 1.179 | 552 |
| 500 | 09 | 248 | 6.208 | 29.458 | 5.746- | 19.790 | 2.351- | 21.820 | .101- | 113.0 | 22.234 | 19.324 | 1.180 | 546 |
| 300 | 12 | 267 | 18.129 | 40.206 | 18.110- | 27.969 | 0.834- | 28.884 | .139- | 128.5 | 30.420 | 26.290 | 1.188 | 542 |
| 300 | 03 | 223 | 8.355 | 36.509 | 5.708- | 26.592 | 6.101- | 25.016 | .131- | 147.5 | 27.606 | 23.891 | 1.182 | 552 |
| 300 | 06 | 254 | 9.890 | 39.528 | 9.494- | 27.427 | 2.769- | 28.465 | .005 | 85.5 | 28.473 | 27.420 | 1.150 | 552 |
| 300 | 09 | 245 | 11.678 | 37.699 | 10.622- | 25.819 | 4.852- | 27.470 | .172- | 125.0 | 29.002 | 24.086 | 1.176 | 546 |
| 200 | 12 | 258 | 21.239 | 31.796 | 20.761- | 21.730 | 4.478- | 23.212 | .160- | 124.0 | 24.361 | 20.434 | 1.193 | 542 |
| 200 | 03 | 240 | 8.720 | 27.295 | 7.528- | 19.792 | 4.399- | 18.796 | .132- | 145.5 | 20.640 | 17.860 | 1.215 | 552 |
| 200 | 06 | 262 | 9.611 | 30.512 | 9.524- | 20.989 | 1.291- | 22.146 | .039 | 71.5 | 22.315 | 20.809 | 1.220 | 552 |
| 200 | 09 | 250 | 15.714 | 30.128 | 14.801- | 20.539 | 5.277- | 22.042 | .200- | 125.5 | 23.448 | 18.917 | 1.229 | 546 |

## Shemya, Alaska

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 232 | 5.321 | 25.136 | 4.186- | 17.965 | 3.284- | 17.580 | .010 | 12.5 | 17.984 | 17.560 | 1.140 | 336 |
| 850 | 03 | 296 | 4.944 | 21.330 | 4.444- | 15.794 | 2.167 | 14.336 | .098 | 22.5 | 16.088 | 14.006 | 1.126 | 345 |
| 850 | 06 | 271 | 7.898 | 18.375 | 7.897- | 13.625 | 0.088 | 12.328 | .152 | 28.5 | 14.122 | 11.755 | 1.183 | 364 |
| 850 | 09 | 276 | 11.046 | 22.180 | 10.982- | 16.488 | 1.191 | 14.837 | .052- | 166.5 | 16.580 | 14.734 | 1.145 | 288 |
| 700 | 12 | 224 | 11.005 | 26.502 | 7.620- | 18.936 | 7.940- | 18.541 | .024- | 155.5 | 19.040 | 18.434 | 1.145 | 451 |
| 700 | 03 | 270 | 8.149 | 25.415 | 8.149- | 18.077 | 0.022 | 17.863 | .019- | 151.0 | 18.174 | 17.764 | 1.138 | 460 |
| 700 | 06 | 274 | 11.875 | 21.800 | 11.843- | 15.664 | 0.867 | 15.162 | .064 | 31.5 | 15.961 | 14.849 | 1.149 | 460 |
| 700 | 09 | 277 | 15.726 | 24.222 | 15.616- | 16.418 | 1.860 | 17.809 | .028- | 99.5 | 17.848 | 16.376 | 1.125 | 455 |
| 500 | 12 | 222 | 19.160 | 36.027 | 12.747- | 25.547 | 14.304- | 25.403 | .119- | 136.5 | 26.958 | 23.900 | 1.196 | 450 |
| 500 | 03 | 263 | 13.784 | 32.498 | 13.691- | 23.286 | 1.598- | 22.670 | .134- | 140.5 | 24.503 | 21.349 | 1.169 | 460 |
| 500 | 06 | 277 | 17.594 | 28.453 | 17.469- | 19.990 | 2.096 | 20.248 | .044 | 53.0 | 20.577 | 19.651 | 1.156 | 460 |
| 500 | 09 | 273 | 24.740 | 31.969 | 24.711- | 22.109 | 1.183 | 23.091 | .099- | 123.0 | 23.801 | 21.342 | 1.175 | 455 |
| 300 | 12 | 228 | 29.429 | 45.672 | 21.895- | 32.513 | 19.663- | 32.076 | .143- | 137.5 | 34.549 | 29.872 | 1.259 | 443 |
| 300 | 03 | 262 | 25.055 | 43.083 | 24.825- | 29.794 | 3.386- | 31.121 | .131- | 126.0 | 32.510 | 28.272 | 1.181 | 429 |
| 300 | 06 | 273 | 24.865 | 38.402 | 24.827- | 25.290 | 1.386 | 28.898 | .064 | 77.0 | 29.084 | 25.076 | 1.164 | 368 |
| 300 | 09 | 270 | 38.025 | 43.459 | 38.023- | 29.807 | 0.314- | 31.627 | .053- | 111.0 | 31.933 | 29.479 | 1.236 | 364 |
| 200 | 12 | 228 | 36.118 | 41.773 | 26.929- | 29.347 | 24.070- | 29.728 | .084- | 130.5 | 30.779 | 28.243 | 1.278 | 450 |
| 200 | 03 | 257 | 27.052 | 38.024 | 26.396- | 24.711 | 5.924- | 28.900 | .087- | 104.5 | 29.176 | 24.384 | 1.193 | 429 |
| 200 | 06 | 276 | 27.381 | 38.728 | 27.211- | 25.169 | 3.042 | 29.434 | .110 | 72.5 | 29.869 | 24.652 | 1.178 | 368 |
| 200 | 09 | 271 | 41.922 | 41.318 | 41.917- | 26.989 | 0.625 | 31.286 | .040- | 97.5 | 31.358 | 26.905 | 1.222 | 364 |

## Yakutat, Alaska

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 148 | 4.912 | 16.886 | 2.592 | 11.441 | 4.172- | 12.419 | .080- | 112.0 | 12.604 | 11.236 | 1.227 | 350 |
| 850 | 03 | 136 | 7.131 | 14.176 | 4.979 | 9.730 | 5.105- | 10.309 | .258- | 128.5 | 11.273 | 08.594 | 1.309 | 383 |
| 850 | 06 | 158 | 3.636 | 13.001 | 1.343 | 9.976 | 3.378- | 8.337 | .485- | 145.0 | 11.297 | 06.435 | 1.271 | 410 |
| 850 | 09 | 150 | 7.051 | 14.840 | 3.525 | 9.666 | 6.107- | 11.260 | .103- | 107.0 | 11.411 | 09.487 | 1.248 | 333 |
| 700 | 12 | 222 | 7.264 | 22.208 | 4.830- | 15.412 | 5.425- | 15.989 | .040- | 114.0 | 16.127 | 15.267 | 1.165 | 451 |
| 700 | 03 | 180 | 8.199 | 18.387 | 0.057 | 12.897 | 8.199- | 13.104 | .171- | 132.5 | 14.079 | 11.825 | 1.201 | 460 |
| 700 | 06 | 223 | 4.071 | 17.108 | 2.800- | 13.263 | 2.956- | 10.807 | .236- | 155.5 | 13.832 | 10.069 | 1.161 | 460 |
| 700 | 09 | 205 | 10.817 | 18.656 | 4.631- | 13.404 | 9.775- | 12.975 | .169 | 39.5 | 14.285 | 11.999 | 1.201 | 455 |
| 500 | 12 | 269 | 15.429 | 34.325 | 15.426- | 22.123 | 0.297- | 26.244 | .096- | 104.5 | 26.520 | 21.791 | 1.184 | 451 |
| 500 | 03 | 220 | 11.853 | 28.153 | 7.635- | 20.037 | 9.067- | 19.777 | .127- | 138.0 | 21.146 | 18.586 | 1.185 | 460 |
| 500 | 06 | 249 | 7.318 | 24.812 | 6.817- | 18.559 | 2.661- | 16.468 | .128- | 156.5 | 19.015 | 15.939 | 1.188 | 460 |
| 500 | 09 | 219 | 18.349 | 27.425 | 11.453- | 18.822 | 14.336- | 19.947 | .077 | 63.5 | 20.306 | 18.434 | 1.191 | 456 |
| 300 | 12 | 275 | 27.099 | 43.442 | 27.015- | 26.644 | 2.142 | 34.311 | .041 | 85.5 | 34.356 | 26.586 | 1.189 | 451 |
| 300 | 03 | 241 | 18.496 | 40.550 | 16.103- | 28.815 | 9.100- | 28.530 | .169- | 136.5 | 31.013 | 26.124 | 1.193 | 431 |
| 300 | 06 | 264 | 11.628 | 41.231 | 11.566- | 31.342 | 1.194- | 26.790 | .154- | 158.0 | 32.174 | 25.784 | 1.178 | 366 |
| 300 | 09 | 235 | 26.997 | 45.932 | 22.143- | 30.824 | 15.443- | 34.053 | .025 | 83.0 | 34.102 | 30.770 | 1.221 | 364 |
| 200 | 12 | 278 | 31.117 | 35.358 | 30.805- | 21.406 | 4.399 | 28.143 | .007 | 89.0 | 28.144 | 21.404 | 1.233 | 449 |
| 200 | 03 | 250 | 18.809 | 30.011 | 17.676- | 20.866 | 6.429- | 21.570 | .099- | 126.0 | 22.309 | 20.074 | 1.214 | 429 |
| 200 | 06 | 272 | 14.807 | 31.075 | 14.796- | 22.550 | 0.584 | 21.381 | .161- | 144.0 | 23.769 | 20.017 | 1.196 | 368 |
| 200 | 09 | 240 | 28.639 | 38.313 | 24.805- | 24.491 | 14.314- | 29.463 | .026- | 94.0 | 29.485 | 24.464 | 1.225 | 364 |

## 2. Canada

## Aklavik, N.W.T., Canada

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 279 | 8.809 | 17.203 | 8.707- | 12.259 | 1.333 | 12.070 | .050- | 143.5 | 12.483 | 11.838 | 1.152 | 451 |
| 700 | 03 | 243 | 7.035 | 14.617 | 6.283- | 10.607 | 3.163- | 10.057 | .105- | 148.5 | 10.929 | 09.706 | 1.135 | 460 |
| 700 | 06 | 265 | 8.490 | 13.517 | 8.457- | 10.230 | 0.753- | 8.836 | .050- | 170.5 | 10.267 | 08.793 | 1.192 | 458 |
| 700 | 06 | 248 | 8.934 | 13.897 | 8.278- | 10.229 | 3.359- | 9.409 | .130- | 151.5 | 10.558 | 09.038 | 1.163 | 456 |
| 500 | 12 | 283 | 15.515 | 25.614 | 15.088- | 17.127 | 3.613 | 19.046 | .130 | 64.5 | 19.568 | 16.529 | 1.194 | 451 |
| 500 | 03 | 250 | 11.560 | 20.362 | 10.870- | 13.797 | 3.935- | 14.974 | .137- | 119.5 | 15.504 | 13.199 | 1.132 | 460 |
| 500 | 06 | 265 | 11.057 | 17.463 | 11.017- | 12.251 | 0.944- | 12.445 | .116- | 131.0 | 13.055 | 11.599 | 1.182 | 460 |
| 500 | 09 | 258 | 13.858 | 18.589 | 13.542- | 11.906 | 2.946- | 14.276 | .012- | 92.0 | 14.278 | 11.903 | 1.190 | 454 |
| 300 | 12 | 290 | 20.995 | 32.104 | 19.767- | 20.379 | 7.074 | 24.807 | .142 | 72.0 | 25.273 | 19.798 | 1.183 | 451 |
| 300 | 03 | 250 | 15.607 | 28.602 | 14.630- | 18.342 | 5.433- | 21.946 | .212- | 115.0 | 22.830 | 17.229 | 1.147 | 460 |
| 300 | 06 | 260 | 14.520 | 27.099 | 14.312- | 18.773 | 2.447- | 19.543 | .078- | 121.5 | 19.988 | 18.299 | 1.166 | 459 |
| 300 | 09 | 254 | 20.673 | 27.094 | 19.897- | 17.028 | 5.614- | 21.074 | .068- | 99.0 | 21.166 | 16.914 | 1.171 | 455 |
| 200 | 12 | 288 | 20.391 | 27.362 | 19.423- | 16.270 | 6.210 | 21.998 | .094 | 81.5 | 22.114 | 16.112 | 1.190 | 449 |
| 200 | 03 | 237 | 14.019 | 23.576 | 11.821- | 15.825 | 7.537- | 17.475 | .223- | 123.0 | 18.588 | 14.502 | 1.132 | 460 |
| 200 | 06 | 248 | 11.250 | 22.752 | 10.460- | 16.158 | 4.143- | 16.017 | .161- | 136.5 | 17.343 | 14.726 | 1.130 | 460 |
| 200 | 09 | 251 | 19.842 | 23.370 | 18.717- | 14.068 | 6.586- | 18.663 | .012- | 91.0 | 18.665 | 14.066 | 1.188 | 454 |

## Argentia, Nfld., Canada

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 272 | 14.727 | 24.016 | 14.713- | 17.639 | 0.642 | 16.297 | .122- | 151.5 | 18.177 | 15.695 | 1.176 | 152 |
| 850 | 03 | 285 | 11.024 | 22.678 | 10.648- | 15.667 | 2.854 | 16.396 | .111 | 56.0 | 16.960 | 15.055 | 1.175 | 158 |
| 850 | 06 | 263 | 12.111 | 17.905 | 12.027- | 13.224 | 1.427- | 12.071 | .071 | 19.0 | 13.368 | 11.911 | 1.214 | 201 |
| 850 | 09 | 275 | 14.728 | 21.685 | 14.666- | 14.435 | 1.344 | 16.183 | .149 | 63.5 | 16.719 | 13.811 | 1.175 | 208 |
| 700 | 12 | 255 | 27.108 | 29.472 | 26.222- | 20.742 | 6.876- | 20.937 | .019 | 57.5 | 20.927 | 20.751 | 1.183 | 451 |
| 700 | 03 | 247 | 14.482 | 27.859 | 13.327- | 19.757 | 5.667- | 19.641 | .047 | 41.5 | 20.143 | 19.245 | 1.136 | 460 |
| 700 | 06 | 262 | 19.189 | 20.722 | 18.991- | 14.128 | 2.748- | 15.159 | .189 | 55.0 | 16.064 | 13.090 | 1.215 | 460 |
| 700 | 09 | 265 | 23.101 | 25.980 | 23.007- | 16.845 | 2.084- | 19.779 | .127 | 71.0 | 20.144 | 16.407 | 1.159 | 455 |
| 500 | 12 | 255 | 41.137 | 39.189 | 39.810- | 27.070 | 10.366- | 28.338 | .031 | 72.5 | 28.468 | 26.933 | 1.230 | 451 |
| 500 | 03 | 250 | 26.001 | 38.821 | 24.417- | 26.807 | 8.935- | 28.080 | .021 | 77.5 | 28.080 | 26.807 | 1.187 | 460 |
| 500 | 06 | 265 | 29.161 | 26.562 | 29.045- | 17.868 | 2.600- | 19.654 | .143 | 62.0 | 20.338 | 17.085 | 1.223 | 460 |
| 500 | 09 | 263 | 36.670 | 36.237 | 36.388- | 23.490 | 4.537- | 27.592 | .197 | 64.5 | 28.670 | 22.161 | 1.194 | 455 |
| 300 | 12 | 254 | 58.315 | 53.992 | 55.942- | 35.984 | 16.465- | 40.253 | .021- | 95.5 | 40.250 | 35.987 | 1.201 | 451 |
| 300 | 03 | 254 | 37.819 | 49.262 | 36.387- | 33.829 | 10.309- | 35.809 | .030 | 76.0 | 35.950 | 33.679 | 1.180 | 429 |
| 300 | 06 | 265 | 46.941 | 41.145 | 46.762- | 28.527 | 4.096- | 29.650 | .080 | 57.5 | 30.406 | 27.720 | 1.252 | 368 |
| 300 | 09 | 261 | 58.754 | 47.888 | 58.038- | 32.061 | 9.145- | 35.572 | .198 | 59.0 | 37.434 | 29.867 | 1.267 | 364 |
| 200 | 12 | 257 | 58.261 | 47.501 | 56.771- | 33.258 | 13.093- | 33.916 | .027- | 117.0 | 34.206 | 32.960 | 1.279 | 451 |
| 200 | 03 | 261 | 39.639 | 43.941 | 39.103- | 30.246 | 6.498- | 31.874 | .046 | 69.0 | 32.128 | 29.977 | 1.230 | 429 |
| 200 | 06 | 270 | 49.347 | 40.935 | 49.346- | 27.605 | 0.200 | 30.226 | .116 | 64.0 | 31.021 | 26.709 | 1.247 | 368 |
| 200 | 09 | 264 | 60.275 | 47.122 | 59.893- | 32.035 | 6.777- | 34.559 | .285 | 52.5 | 37.898 | 28.005 | 1.252 | 364 |

## Cambridge Bay, N.W.T., Canada

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 325 | 9.540 | 17.664 | 5.486- | 11.770 | 7.804 | 13.172 | .043 | 79.5 | 13.220 | 11.716 | 1.188 | 451 |
| 700 | 03 | 297 | 7.548 | 16.560 | 6.697- | 11.559 | 3.482 | 11.858 | .170- | 130.5 | 12.679 | 10.652 | 1.145 | 460 |
| 700 | 06 | 317 | 10.408 | 15.694 | 7.156- | 10.766 | 7.558 | 11.419 | .083 | 62.5 | 11.648 | 10.518 | 1.149 | 458 |
| 700 | 09 | 304 | 11.590 | 15.294 | 9.569- | 10.285 | 6.540 | 11.319 | .007 | 87.5 | 11.321 | 10.283 | 1.198 | 455 |
| 500 | 12 | 323 | 15.775 | 23.152 | 9.486- | 16.337 | 12.604 | 16.404 | .121 | 46.0 | 17.339 | 15.341 | 1.175 | 451 |
| 500 | 03 | 296 | 13.147 | 21.903 | 11.859- | 15.286 | 5.675 | 15.686 | .141- | 130.0 | 16.561 | 14.334 | 1.149 | 460 |
| 500 | 06 | 311 | 15.217 | 20.388 | 11.497- | 13.918 | 9.970 | 14.898 | .052 | 71.0 | 15.022 | 13.784 | 1.170 | 460 |
| 500 | 09 | 304 | 18.316 | 20.621 | 15.223- | 13.542 | 10.183 | 15.551 | .007- | 91.5 | 15.552 | 13.540 | 1.223 | 455 |
| 300 | 12 | 320 | 21.490 | 28.698 | 13.677- | 20.423 | 16.576 | 20.163 | .141 | 42.5 | 21.683 | 18.802 | 1.159 | 451 |
| 300 | 03 | 299 | 19.983 | 27.303 | 17.530- | 18.127 | 9.591 | 20.418 | .216- | 120.5 | 21.548 | 16.768 | 1.152 | 460 |
| 300 | 06 | 309 | 21.147 | 28.704 | 16.351- | 20.177 | 13.410 | 20.416 | .011- | 112.0 | 20.463 | 20.130 | 1.182 | 460 |
| 300 | 09 | 301 | 28.162 | 28.934 | 24.039- | 18.069 | 14.670 | 22.598 | .121 | 76.0 | 22.872 | 17.721 | 1.207 | 455 |
| 200 | 12 | 315 | 20.660 | 25.685 | 14.641- | 18.105 | 14.577 | 18.219 | .065 | 48.0 | 18.747 | 17.558 | 1.242 | 449 |
| 200 | 03 | 291 | 16.637 | 22.774 | 15.577- | 15.189 | 5.843- | 16.970 | .825- | 131.0 | 21.774 | 06.677 | 1.167 | 460 |
| 200 | 06 | 303 | 17.649 | 23.942 | 14.771- | 15.926 | 9.658 | 17.877 | .015 | 86.0 | 17.885 | 15.917 | 1.191 | 461 |
| 200 | 09 | 297 | 26.593 | 25.864 | 23.600- | 15.614 | 12.257 | 20.623 | .086 | 81.5 | 20.724 | 15.480 | 1.225 | 454 |

## Chesterfield, N.W.T., Canada

| P | J | $\bar{\Theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 309 | 9.900 | 16.609 | 7.662- | 11.600 | 6.270 | 11.887 | .024- | 112.5 | 11.983 | 11.501 | 1.139 | 450 |
| 700 | 03 | 298 | 6.898 | 17.893 | 6.115- | 13.153 | 3.193 | 12.131 | .123- | 151.0 | 13.457 | 11.690 | 1.130 | 459 |
| 700 | 06 | 322 | 9.103 | 16.850 | 5.618- | 11.966 | 7.162 | 11.863 | .067 | 41.5 | 12.330 | 11.484 | 1.136 | 455 |
| 700 | 09 | 308 | 10.450 | 17.070 | 8.188- | 12.008 | 6.494 | 12.133 | .071- | 131.0 | 12.494 | 11.632 | 1.145 | 454 |
| 500 | 12 | 303 | 15.612 | 24.169 | 13.095- | 18.003 | 8.501 | 16.126 | .001 | 0.5 | 18.001 | 16.128 | 1.200 | 450 |
| 500 | 03 | 292 | 12.053 | 24.914 | 11.149- | 17.576 | 4.580 | 17.658 | .155- | 134.0 | 18.933 | 16.194 | 1.120 | 449 |
| 500 | 06 | 316 | 12.618 | 20.972 | 8.751- | 14.709 | 9.090 | 14.949 | .056 | 52.5 | 15.251 | 14.396 | 1.139 | 457 |
| 500 | 09 | 306 | 17.410 | 22.877 | 13.997- | 15.435 | 10.354 | 16.886 | .034- | 100.5 | 16.925 | 15.392 | 1.184 | 454 |
| 300 | 12 | 301 | 20.809 | 29.216 | 17.822- | 21.287 | 10.741 | 20.011 | .111- | 149.0 | 21.918 | 19.318 | 1.206 | 447 |
| 300 | 03 | 287 | 17.288 | 33.180 | 16.559- | 23.252 | 4.969 | 23.669 | .231- | 133.0 | 26.053 | 20.546 | 1.152 | 457 |
| 300 | 06 | 314 | 17.601 | 30.536 | 12.616- | 21.323 | 12.273 | 21.858 | .016 | 73.5 | 21.855 | 21.326 | 1.136 | 460 |
| 300 | 09 | 304 | 26.675 | 32.752 | 22.201- | 20.893 | 20.893 | 25.223 | .002- | 90.5 | 25.223 | 20.893 | 1.167 | 455 |
| 200 | 12 | 031 | 26.674 | 26.674 | 17.198- | 19.230 | 10.453 | 18.486 | .041- | 156.0 | 19.413 | 18.294 | 1.223 | 449 |
| 200 | 03 | 288 | 15.197 | 26.746 | 14.438- | 18.686 | 4.741 | 19.136 | .015- | 130.5 | 20.338 | 17.369 | 1.153 | 457 |
| 200 | 06 | 312 | 15.821 | 28.220 | 11.725- | 19.869 | 10.623 | 20.040 | .115 | 46.5 | 21.065 | 18.779 | 1.149 | 458 |
| 200 | 09 | 307 | 26.114 | 28.795 | 20.872- | 18.632 | 15.694 | 21.954 | .015- | 92.5 | 21.956 | 18.630 | 1.211 | 454 |

## Churchill, Man., Canada

| P | J | $\bar{\Theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 305 | 14.850 | 19.355 | 12.158- | 13.845 | 8.525 | 13.524 | .014 | 15.5 | 13.872 | 13.497 | 1.210 | 451 |
| 700 | 03 | 303 | 9.379 | 20.350 | 7.848- | 13.982 | 5.137 | 14.785 | .052- | 111.5 | 14.932 | 13.825 | 1.147 | 460 |
| 700 | 06 | 308 | 11.790 | 17.632 | 9.259- | 12.560 | 7.300 | 12.375 | .033- | 147.0 | 12.695 | 12.237 | 1.182 | 460 |
| 700 | 09 | 303 | 12.546 | 19.730 | 10.563- | 13.679 | 6.770 | 14.219 | .013- | 99.5 | 14.234 | 13.664 | 1.164 | 455 |
| 500 | 12 | 301 | 23.667 | 26.635 | 20.183- | 19.136 | 12.360 | 18.527 | .030 | 22.0 | 19.250 | 18.409 | 1.241 | 452 |
| 500 | 03 | 296 | 15.420 | 28.131 | 13.908- | 19.776 | 6.659 | 20.007 | .103- | 132.0 | 20.897 | 18.833 | 1.157 | 460 |
| 500 | 06 | 300 | 17.581 | 22.429 | 15.244- | 16.353 | 8.757 | 15.350 | .023- | 169.5 | 16.386 | 15.314 | 1.238 | 460 |
| 500 | 09 | 303 | 21.430 | 26.797 | 17.903- | 17.437 | 11.777 | 20.348 | .124- | 109.5 | 20.729 | 16.983 | 1.195 | 455 |
| 300 | 12 | 296 | 31.765 | 31.504 | 28.500- | 21.261 | 14.027 | 23.249 | .077 | 69.5 | 23.553 | 20.923 | 1.228 | 451 |
| 300 | 03 | 287 | 21.947 | 37.340 | 20.969- | 26.022 | 6.480 | 26.780 | .190- | 130.5 | 28.830 | 23.730 | 1.190 | 460 |
| 300 | 06 | 295 | 26.293 | 34.154 | 23.783- | 24.470 | 11.211 | 23.826 | .015- | 164.5 | 24.522 | 23.773 | 1.262 | 460 |
| 300 | 09 | 296 | 33.023 | 38.632 | 29.651- | 25.056 | 14.537 | 29.405 | .039 | 83.0 | 29.466 | 24.985 | 1.208 | 455 |
| 200 | 12 | 295 | 32.247 | 28.335 | 29.124- | 19.603 | 13.843 | 20.459 | .056 | 63.5 | 20.734 | 19.312 | 1.309 | 449 |
| 200 | 03 | 287 | 21.078 | 27.981 | 20.146- | 20.043 | 6.199 | 19.525 | .194- | 139.0 | 21.637 | 17.742 | 1.263 | 460 |
| 200 | 06 | 292 | 25.655 | 30.565 | 23.869- | 21.610 | 9.406 | 21.617 | .098 | 45.0 | 22.655 | 20.519 | 1.284 | 460 |
| 200 | 09 | 298 | 33.618 | 33.354 | 29.706- | 22.169 | 15.740 | 24.921 | .036 | 81.5 | 24.982 | 22.100 | 1.220 | 454 |

## Clyde River, N.W.T., Canada

| P | J | $\bar{\Theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 171 | 5.393 | 18.620 | 0.857 | 13.556 | 5.324- | 12.765 | .229- | 142.5 | 14.643 | 11.502 | 1.160 | 451 |
| 700 | 03 | 249 | 5.450 | 19.065 | 5.101- | 13.233 | 1.922- | 13.724 | .154- | 128.5 | 14.513 | 12.363 | 1.168 | 460 |
| 700 | 06 | 172 | 3.366 | 17.522 | 0.464 | 12.381 | 3.334- | 12.398 | .274- | 135.0 | 13.987 | 10.553 | 1.188 | 458 |
| 700 | 09 | 210 | 4.757 | 19.329 | 2.410- | 14.083 | 4.101- | 13.238 | .161- | 145.5 | 14.800 | 12.432 | 1.167 | 455 |
| 500 | 12 | 176 | 10.063 | 28.191 | 0.631 | 20.065 | 10.043- | 19.803 | .266- | 136.5 | 22.440 | 17.065 | 1.190 | 451 |
| 500 | 03 | 243 | 11.130 | 27.085 | 9.947- | 18.056 | 4.992- | 20.189 | .096- | 110.5 | 20.512 | 17.688 | 1.172 | 459 |
| 500 | 06 | 197 | 5.710 | 22.938 | 1.696- | 15.166 | 5.452- | 17.210 | .180- | 117.5 | 17.907 | 14.336 | 1.170 | 460 |
| 500 | 09 | 215 | 9.501 | 27.970 | 5.408- | 18.555 | 7.812- | 20.929 | .135- | 114.0 | 21.483 | 17.911 | 1.197 | 455 |
| 300 | 12 | 190 | 12.870 | 30.644 | 2.253- | 22.344 | 12.671- | 20.972 | .143- | 147.0 | 23.305 | 19.898 | 1.177 | 451 |
| 300 | 03 | 252 | 15.510 | 28.957 | 14.761- | 19.692 | 4.761- | 21.230 | .108- | 117.5 | 21.783 | 19.078 | 1.182 | 460 |
| 300 | 06 | 223 | 7.503 | 30.898 | 5.085- | 21.225 | 5.516- | 22.454 | .145- | 124.5 | 23.488 | 20.074 | 1.167 | 460 |
| 300 | 09 | 228 | 13.128 | 31.414 | 9.816- | 22.009 | 8.717- | 22.416 | .145- | 131.5 | 23.790 | 20.515 | 1.138 | 455 |
| 200 | 12 | 204 | 11.493 | 25.535 | 4.713- | 18.459 | 10.483- | 17.643 | .148- | 143.5 | 19.403 | 16.599 | 1.162 | 450 |
| 200 | 03 | 257 | 12.552 | 23.197 | 12.214- | 15.499 | 2.894- | 17.259 | .167- | 118.5 | 17.954 | 14.688 | 1.169 | 460 |
| 200 | 06 | 217 | 4.466 | 22.468 | 2.702- | 14.740 | 3.556- | 16.957 | .103- | 108.0 | 17.204 | 14.451 | 1.153 | 460 |
| 200 | 09 | 239 | 12.255 | 26.252 | 10.535- | 18.857 | 6.260- | 18.264 | .211- | 139.5 | 20.449 | 16.462 | 1.167 | 454 |

## Edmonton, Alta, Canada

| P | J | $\bar{\Theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 297 | 19.989 | 20.087 | 17.854- | 13.343 | 8.988 | 15.016 | .349- | 125.5 | 16.604 | 11.306 | 1.323 | 451 |
| 700 | 03 | 296 | 11.074 | 19.997 | 9.602- | 13.610 | 4.932 | 14.650 | .301- | 128.0 | 16.182 | 11.748 | 1.194 | 458 |
| 700 | 06 | 294 | 9.458 | 17.450 | 8.621- | 11.818 | 3.891 | 12.838 | .219- | 124.5 | 13.704 | 10.802 | 1.196 | 461 |
| 700 | 09 | 295 | 17.377 | 20.182 | 15.777- | 12.922 | 7.284 | 15.503 | .162- | 111.0 | 15.896 | 12.436 | 1.273 | 454 |
| 500 | 12 | 293 | 28.677 | 26.194 | 26.417- | 19.073 | 11.159 | 17.954 | .036 | 15.5 | 19.162 | 17.859 | 1.285 | 451 |
| 500 | 03 | 285 | 17.731 | 27.002 | 17.115- | 17.663 | 4.634 | 20.423 | .120- | 110.0 | 20.802 | 17.215 | 1.196 | 460 |
| 500 | 06 | 281 | 13.983 | 21.360 | 13.743- | 14.503 | 2.577 | 15.682 | .000- | 90.5 | 15.682 | 14.503 | 1.188 | 460 |
| 500 | 09 | 290 | 25.123 | 26.423 | 23.653- | 16.931 | 8.466 | 20.285 | .072 | 79.0 | 20.403 | 16.788 | 1.194 | 453 |
| 300 | 12 | 289 | 38.554 | 37.120 | 36.467- | 25.653 | 12.512 | 26.830 | .124 | 55.0 | 27.930 | 24.451 | 1.229 | 362 |
| 300 | 03 | 282 | 23.498 | 38.652 | 22.981- | 24.465 | 4.904 | 29.923 | .078- | 100.5 | 30.101 | 24.245 | 1.143 | 308 |
| 300 | 06 | 269 | 21.289 | 32.832 | 21.288- | 23.197 | 0.226- | 23.235 | .062 | 45.5 | 23.932 | 22.477 | 1.195 | 278 |
| 300 | 09 | 281 | 37.060 | 40.476 | 36.415- | 26.380 | 6.886 | 30.698 | .150 | 67.5 | 31.507 | 25.408 | 1.200 | 334 |
| 200 | 12 | 290 | 37.070 | 31.217 | 34.741- | 20.129 | 12.930 | 23.860 | .025- | 94.5 | 23.880 | 20.106 | 1.304 | 361 |
| 200 | 03 | 275 | 21.054 | 31.470 | 20.961- | 20.075 | 1.977 | 24.237 | .128- | 107.0 | 24.631 | 19.590 | 1.196 | 308 |
| 200 | 06 | 262 | 23.886 | 32.331 | 23.673- | 20.353 | 3.184- | 25.121 | .104 | 77.0 | 25.370 | 20.042 | 1.216 | 278 |
| 200 | 09 | 280 | 35.373 | 34.409 | 34.879- | 20.998 | 5.982 | 27.259 | .198 | 71.5 | 27.949 | 20.071 | 1.188 | 334 |

## Eureka, N.W.T., Canada

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 065 | 3.489 | 17.411 | 3.167 | 11.093 | 1.463 | 13.420 | .104 | 75.5 | 13.568 | 10.911 | 1.167 | 449 |
| 700 | 03 | 028 | 3.853 | 17.399 | 1.804 | 11.753 | 3.404 | 12.830 | .096 | 66.0 | 13.079 | 11.475 | 1.157 | 460 |
| 700 | 06 | 204 | 2.025 | 15.250 | 0.813- | 9.996 | 1.855- | 11.518 | .085 | 74.5 | 11.635 | 09.859 | 1.149 | 460 |
| 700 | 09 | 056 | 2.343 | 16.028 | 1.933 | 10.545 | 1.323 | 12.070 | .140 | 67.0 | 12.381 | 10.178 | 1.152 | 455 |
| 500 | 12 | 095 | 4.623 | 26.585 | 4.604 | 18.750 | 0.411- | 18.847 | .056 | 47.5 | 19.323 | 18.259 | 1.147 | 451 |
| 500 | 03 | 018 | 4.930 | 25.365 | 1.533 | 17.818 | 4.686 | 18.052 | .098 | 49.0 | 18.806 | 17.020 | 1.151 | 460 |
| 500 | 06 | 240 | 2.437 | 23.752 | 2.107- | 15.387 | 1.225- | 18.095 | .019 | 86.5 | 18.104 | 15.376 | 1.150 | 459 |
| 500 | 09 | 018 | 1.997 | 22.821 | 0.608 | 16.046 | 1.902 | 16.227 | .018 | 60.5 | 16.314 | 15.958 | 1.127 | 456 |
| 300 | 12 | 110 | 4.203 | 27.753 | 3.937 | 20.328 | 1.471- | 18.895 | .070 | 22.0 | 20.598 | 18.601 | 1.141 | 451 |
| 300 | 03 | 342 | 4.848 | 28.243 | 1.480- | 20.506 | 4.617 | 19.421 | .010 | 5.5 | 20.516 | 19.411 | 1.178 | 460 |
| 300 | 06 | 262 | 3.725 | 31.612 | 3.692- | 21.423 | 0.495- | 23.246 | .026- | 99.0 | 23.290 | 21.375 | 1.134 | 460 |
| 300 | 09 | 340 | 1.346 | 27.957 | 0.467- | 19.690 | 1.263 | 19.846 | .007- | 112.0 | 19.877 | 19.659 | 1.141 | 455 |
| 200 | 12 | 136 | 1.778 | 22.572 | 1.229 | 17.195 | 1.285- | 14.623 | .098- | 164.5 | 17.394 | 14.386 | 1.129 | 450 |
| 200 | 03 | 301 | 5.366 | 20.168 | 4.617- | 15.575 | 2.734 | 12.813 | .003 | 0.5 | 15.575 | 12.813 | 1.174 | 460 |
| 200 | 06 | 261 | 2.143 | 19.482 | 2.117- | 13.304 | 0.332- | 14.231 | .007- | 93.0 | 14.233 | 13.301 | 1.139 | 460 |
| 200 | 09 | 285 | 2.779 | 20.297 | 2.687- | 14.034 | 0.710 | 14.663 | .009 | 84.0 | 14.669 | 14.027 | 1.168 | 454 |

## Fort Chimo, Que., Canada

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 256 | 13.288 | 20.642 | 12.918- | 14.558 | 3.111- | 14.633 | .071- | 133.0 | 15.108 | 14.065 | 1.170 | 451 |
| 700 | 03 | 261 | 3.807 | 22.438 | 3.755- | 16.392 | 0.627- | 15.322 | .064- | 158.0 | 16.588 | 15.110 | 1.144 | 459 |
| 700 | 06 | 269 | 9.254 | 19.957 | 9.252- | 14.310 | 0.199- | 13.911 | .000- | 180.0 | 14.310 | 13.911 | 1.151 | 458 |
| 700 | 09 | 269 | 12.365 | 20.739 | 12.364- | 14.070 | 0.118- | 15.236 | .050 | 74.0 | 15.339 | 13.958 | 1.142 | 454 |
| 500 | 12 | 251 | 20.557 | 29.051 | 19.490- | 20.181 | 6.534- | 20.897 | .145- | 128.0 | 22.021 | 18.948 | 1.212 | 452 |
| 500 | 03 | 250 | 8.221 | 28.479 | 7.723- | 20.524 | 2.817- | 19.743 | .124- | 143.5 | 21.410 | 18.779 | 1.146 | 459 |
| 500 | 06 | 270 | 13.898 | 24.803 | 13.898- | 17.097 | 0.001- | 17.969 | .012 | 82.5 | 17.983 | 17.082 | 1.148 | 459 |
| 500 | 09 | 266 | 18.768 | 27.706 | 18.731- | 18.094 | 1.171- | 20.982 | .070 | 77.5 | 21.124 | 17.928 | 1.186 | 455 |
| 300 | 12 | 247 | 28.153 | 34.518 | 25.904- | 24.970 | 11.026- | 23.833 | .126- | 145.0 | 25.999 | 22.706 | 1.205 | 450 |
| 300 | 03 | 255 | 13.668 | 38.319 | 13.189- | 27.717 | 3.586- | 26.461 | .206- | 141.5 | 29.827 | 24.057 | 1.139 | 460 |
| 300 | 06 | 272 | 21.538 | 36.246 | 21.524- | 24.996 | 0.784 | 26.249 | .003- | 92.0 | 26.250 | 24.995 | 1.153 | 460 |
| 300 | 09 | 258 | 27.296 | 37.730 | 26.718- | 23.781 | 5.585- | 29.292 | .079- | 100.5 | 29.465 | 23.567 | 1.193 | 455 |
| 200 | 12 | 244 | 28.468 | 31.882 | 25.553- | 22.750 | 12.549- | 22.336 | .110- | 139.5 | 23.775 | 21.242 | 1.236 | 449 |
| 200 | 03 | 261 | 14.385 | 30.711 | 14.210- | 22.203 | 2.242- | 21.217 | .158- | 143.0 | 23.434 | 19.849 | 1.147 | 460 |
| 200 | 06 | 277 | 22.298 | 32.738 | 22.152- | 22.559 | 2.546 | 23.725 | .015 | 81.5 | 23.751 | 22.531 | 1.168 | 460 |
| 200 | 09 | 259 | 29.643 | 32.686 | 29.061- | 19.349 | 5.843- | 26.344 | .031 | 87.0 | 26.359 | 19.328 | 1.190 | 453 |

## Fort Nelson, B.C., Canada

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 288 | 11.650 | 17.724 | 11.084- | 12.765 | 3.589 | 12.297 | .159- | 141.5 | 13.519 | 11.462 | 1.150 | 451 |
| 700 | 03 | 269 | 7.597 | 15.252 | 7.597- | 10.674 | 0.117- | 10.895 | .209- | 132.0 | 11.867 | 09.582 | 1.142 | 460 |
| 700 | 06 | 294 | 5.757 | 13.588 | 5.264- | 9.851 | 2.330 | 9.358 | .004- | 177.5 | 9.852 | 09.357 | 1.152 | 459 |
| 700 | 09 | 275 | 11.263 | 15.849 | 11.225- | 11.182 | 0.930 | 11.232 | .150- | 134.0 | 12.020 | 10.330 | 1.169 | 455 |
| 500 | 12 | 287 | 19.494 | 24.801 | 18.686- | 16.343 | 5.552 | 18.655 | .047 | 80.0 | 18.723 | 16.265 | 1.179 | 452 |
| 500 | 03 | 264 | 11.588 | 22.566 | 11.518- | 15.150 | 1.264- | 16.723 | .132- | 116.5 | 17.217 | 14.587 | 1.128 | 460 |
| 500 | 06 | 285 | 6.690 | 17.795 | 6.448- | 12.450 | 1.785 | 12.714 | .097- | 129.0 | 13.194 | 11.940 | 1.148 | 460 |
| 500 | 09 | 270 | 15.609 | 22.132 | 15.609- | 13.962 | 0.005 | 17.172 | .075 | 80.0 | 17.265 | 13.847 | 1.144 | 455 |
| 300 | 12 | 290 | 27.109 | 32.919 | 25.541- | 20.175 | 9.086 | 26.012 | .124 | 77.0 | 26.298 | 19.800 | 1.190 | 452 |
| 300 | 03 | 259 | 15.355 | 33.398 | 15.057- | 21.984 | 3.013- | 25.143 | .154- | 114.5 | 25.905 | 21.081 | 1.126 | 460 |
| 300 | 06 | 276 | 7.654 | 30.317 | 7.610- | 21.129 | 0.813 | 21.742 | .002 | 87.0 | 21.744 | 21.127 | 1.108 | 460 |
| 300 | 09 | 269 | 21.536 | 33.651 | 21.532- | 21.614 | 0.394- | 25.792 | .007- | 91.0 | 25.794 | 21.612 | 1.140 | 455 |
| 200 | 12 | 294 | 25.886 | 27.999 | 23.644- | 16.898 | 10.537 | 22.325 | .074 | 82.5 | 22.406 | 16.791 | 1.209 | 449 |
| 200 | 03 | 259 | 13.711 | 27.803 | 13.452- | 18.663 | 2.653- | 20.609 | .048- | 103.0 | 20.712 | 18.548 | 1.137 | 460 |
| 200 | 06 | 273 | 8.394 | 28.335 | 8.382- | 19.230 | 0.457 | 20.810 | .054- | 107.0 | 20.971 | 19.054 | 1.120 | 460 |
| 200 | 09 | 268 | 23.251 | 30.916 | 23.241- | 19.457 | 0.682- | 24.025 | .045 | 84.0 | 24.071 | 19.400 | 1.148 | 454 |

## Fort Smith, N.W.T., Canada

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 300 | 14.052 | 18.359 | 12.159- | 12.583 | 7.043 | 13.369 | .071- | 115.0 | 13.571 | 12.365 | 1.180 | 450 |
| 700 | 03 | 288 | 8.103 | 16.682 | 7.720- | 11.222 | 2.460 | 12.344 | .067- | 107.5 | 12.473 | 11.078 | 1.138 | 460 |
| 700 | 06 | 299 | 8.325 | 16.123 | 7.247- | 10.159 | 4.097 | 12.519 | .022 | 86.5 | 12.520 | 10.159 | 1.158 | 459 |
| 700 | 09 | 292 | 12.397 | 17.066 | 11.488- | 11.674 | 4.660 | 12.448 | .043 | 72.5 | 12.532 | 11.584 | 1.153 | 455 |
| 500 | 12 | 297 | 22.546 | 24.447 | 20.108- | 16.372 | 10.197 | 18.155 | .027- | 97.5 | 18.196 | 16.327 | 1.192 | 450 |
| 500 | 03 | 287 | 14.877 | 22.322 | 14.243- | 15.013 | 4.298 | 16.519 | .010- | 93.0 | 16.518 | 15.014 | 1.143 | 450 |
| 500 | 06 | 297 | 11.801 | 20.009 | 10.483- | 12.172 | 5.419 | 15.881 | .104- | 100.5 | 16.002 | 12.014 | 1.148 | 460 |
| 500 | 09 | 291 | 19.084 | 23.594 | 17.802- | 15.645 | 6.877 | 17.661 | .019 | 85.0 | 17.658 | 15.647 | 1.178 | 454 |
| 300 | 12 | 299 | 30.337 | 31.950 | 26.404- | 19.906 | 14.937 | 24.991 | .036 | 85.0 | 25.013 | 19.878 | 1.208 | 450 |
| 300 | 03 | 284 | 19.871 | 34.221 | 19.320- | 21.799 | 4.649 | 26.380 | .051- | 97.5 | 26.463 | 21.698 | 1.141 | 457 |
| 300 | 06 | 293 | 17.219 | 31.115 | 15.871- | 20.146 | 6.677 | 23.713 | .071- | 102.0 | 23.860 | 19.972 | 1.146 | 460 |
| 300 | 09 | 287 | 26.012 | 34.371 | 24.829- | 22.022 | 7.757 | 26.390 | .042 | 83.0 | 26.448 | 21.952 | 1.149 | 455 |
| 200 | 12 | 298 | 27.338 | 27.569 | 24.199- | 17.725 | 12.719 | 21.116 | .048- | 97.5 | 21.166 | 17.666 | 1.203 | 449 |
| 200 | 03 | 282 | 16.908 | 29.114 | 16.515- | 18.832 | 3.623 | 22.203 | .078- | 102.5 | 22.366 | 18.639 | 1.156 | 457 |
| 200 | 06 | 292 | 14.010 | 29.006 | 12.946- | 18.731 | 5.356 | 22.147 | .017 | 86.5 | 22.148 | 18.730 | 1.126 | 458 |
| 200 | 09 | 286 | 25.869 | 32.007 | 24.818- | 20.635 | 7.301 | 24.467 | .031 | 84.5 | 24.497 | 20.599 | 1.163 | 454 |

## Frobisher, Baffin I., Canada

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 294 | 5.622 | 16.804 | 5.124- | 11.970 | 2.312 | 11.795 | .343- | 135.5 | 13.774 | 09.627 | 1.204 | 206 |
| 850 | 03 | 186 | 1.471 | 17.893 | 0.146- | 13.543 | 1.464- | 11.694 | .282- | 148.5 | 14.511 | 10.468 | 1.215 | 297 |
| 850 | 06 | 181 | 2.366 | 17.531 | 0.056- | 12.289 | 2.365- | 12.503 | .239- | 133.0 | 13.801 | 10.811 | 1.206 | 372 |
| 850 | 09 | 226 | 1.927 | 17.038 | 1.375- | 11.930 | 1.351- | 12.164 | .281- | 133.0 | 13.649 | 10.198 | 1.189 | 183 |
| 700 | 12 | 259 | 7.546 | 20.085 | 7.416- | 14.591 | 1.396- | 13.803 | .201- | 142.0 | 15.620 | 12.627 | 1.131 | 452 |
| 700 | 03 | 258 | 5.248 | 21.394 | 5.130- | 16.020 | 1.108- | 14.180 | .295- | 145.5 | 17.371 | 12.489 | 1.129 | 459 |
| 700 | 06 | 215 | 3.462 | 19.501 | 1.961- | 13.574 | 2.853- | 14.001 | .098- | 126.5 | 14.492 | 13.048 | 1.139 | 459 |
| 700 | 09 | 263 | 7.101 | 19.815 | 7.050- | 13.865 | 0.846- | 14.155 | .077- | 127.5 | 14.564 | 13.435 | 1.138 | 455 |
| 500 | 12 | 241 | 11.080 | 27.847 | 9.667- | 20.378 | 5.413- | 18.979 | .239- | 143.0 | 22.001 | 17.071 | 1.139 | 451 |
| 500 | 03 | 259 | 11.521 | 28.585 | 11.313- | 20.112 | 2.183- | 20.313 | .275- | 134.0 | 22.832 | 17.200 | 1.135 | 460 |
| 500 | 06 | 242 | 5.795 | 26.228 | 5.131- | 18.269 | 2.695- | 18.820 | .113- | 127.5 | 19.606 | 17.422 | 1.141 | 461 |
| 500 | 09 | 261 | 12.490 | 27.169 | 12.351- | 18.313 | 1.854- | 20.069 | .072- | 109.5 | 20.288 | 18.070 | 1.155 | 455 |
| 300 | 12 | 240 | 19.314 | 35.931 | 16.668- | 26.566 | 9.759- | 24.193 | .216- | 146.0 | 28.237 | 22.220 | 1.198 | 451 |
| 300 | 06 | 257 | 16.674 | 34.304 | 16.262- | 23.299 | 3.685- | 25.177 | .129- | 119.5 | 26.028 | 22.345 | 1.131 | 429 |
| 300 | 06 | 241 | 10.146 | 34.905 | 8.896- | 24.933 | 4.879- | 24.427 | .117- | 139.5 | 26.121 | 23.152 | 1.136 | 368 |
| 300 | 09 | 250 | 16.241 | 34.513 | 15.279- | 22.892 | 5.508- | 25.828 | .041- | 99.5 | 25.919 | 22.789 | 1.170 | 364 |
| 200 | 12 | 241 | 19.962 | 29.812 | 17.441- | 21.548 | 9.709- | 20.603 | .163- | 142.0 | 22.802 | 19.205 | 1.222 | 451 |
| 200 | 03 | 266 | 14.159 | 27.979 | 14.121- | 19.680 | 1.042- | 19.888 | .169- | 133.0 | 21.405 | 18.018 | 1.146 | 429 |
| 200 | 06 | 252 | 9.110 | 27.896 | 8.673- | 19.673 | 2.787- | 19.778 | .068- | 133.0 | 20.410 | 19.016 | 1.143 | 368 |
| 200 | 09 | 249 | 15.460 | 30.977 | 14.385- | 20.997 | 5.665- | 22.775 | .067- | 110.0 | 23.002 | 20.749 | 1.185 | 363 |

## Goose Bay, Lab., Canada

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 283 | 11.065 | 25.804 | 10.762- | 17.510 | 2.571 | 18.954 | .048 | 74.5 | 19.057 | 17.398 | 1.139 | 417 |
| 850 | 03 | 274 | 1.061 | 21.475 | 1.059- | 14.759 | 0.074 | 15.599 | .130 | 56.5 | 16.223 | 14.070 | 1.144 | 422 |
| 850 | 06 | 262 | 8.297 | 18.193 | 8.219- | 12.076 | 1.135- | 13.607 | .196 | 60.5 | 14.263 | 11.294 | 1.181 | 428 |
| 850 | 09 | 273 | 12.797 | 23.027 | 12.783- | 15.494 | 0.596 | 17.034 | .122 | 64.0 | 17.495 | 14.972 | 1.167 | 400 |
| 700 | 12 | 268 | 16.855 | 28.204 | 16.841- | 19.812 | 0.675- | 20.075 | .015 | 65.5 | 20.039 | 19.847 | 1.133 | 451 |
| 700 | 03 | 252 | 4.855 | 25.037 | 4.621- | 17.706 | 1.487- | 17.702 | .002 | 43.0 | 17.754 | 17.654 | 1.122 | 460 |
| 700 | 06 | 268 | 12.719 | 21.846 | 12.708- | 15.286 | 0.524- | 15.608 | .121 | 50.0 | 16.378 | 14.457 | 1.167 | 460 |
| 700 | 09 | 271 | 19.285 | 26.374 | 19.283- | 17.318 | 0.236 | 19.892 | .078 | 75.0 | 20.064 | 17.118 | 1.175 | 454 |
| 500 | 12 | 259 | 28.412 | 35.703 | 27.923- | 25.751 | 5.248- | 24.730 | .119- | 144.5 | 26.777 | 23.616 | 1.208 | 451 |
| 500 | 03 | 249 | 12.119 | 33.790 | 11.276- | 25.312 | 4.439- | 22.385 | .037- | 171.5 | 25.358 | 22.334 | 1.186 | 460 |
| 500 | 06 | 262 | 19.527 | 28.509 | 19.346- | 19.843 | 2.648- | 20.470 | .047 | 62.0 | 20.700 | 19.603 | 1.226 | 460 |
| 500 | 09 | 266 | 28.061 | 34.663 | 27.993- | 22.077 | 1.958- | 26.723 | .026 | 86.0 | 26.751 | 22.043 | 1.207 | 455 |
| 300 | 12 | 250 | 42.183 | 45.069 | 39.683- | 32.452 | 14.306- | 31.275 | .168- | 141.0 | 34.531 | 28.963 | 1.238 | 451 |
| 300 | 03 | 249 | 20.946 | 45.748 | 19.584- | 33.211 | 7.429- | 31.462 | .110- | 148.0 | 34.266 | 30.310 | 1.198 | 429 |
| 300 | 06 | 265 | 33.620 | 40.310 | 33.473- | 28.350 | 3.137- | 28.656 | .006- | 104.5 | 28.660 | 28.346 | 1.244 | 368 |
| 300 | 09 | 256 | 43.436 | 44.948 | 42.222- | 28.421 | 10.199- | 34.822 | .018 | 87.5 | 34.821 | 28.422 | 1.210 | 364 |
| 200 | 12 | 253 | 43.621 | 39.168 | 41.674- | 28.894 | 12.886- | 26.443 | .144- | 151.0 | 29.948 | 25.243 | 1.274 | 451 |
| 200 | 06 | 254 | 22.970 | 35.647 | 22.042- | 27.028 | 6.462- | 23.241 | .019- | 176.0 | 27.030 | 23.239 | 1.248 | 429 |
| 200 | 06 | 265 | 35.766 | 36.348 | 35.634- | 24.956 | 3.070- | 26.427 | .016 | 82.0 | 26.425 | 24.957 | 1.283 | 368 |
| 200 | 09 | 256 | 48.009 | 39.761 | 46.520- | 24.714 | 11.862- | 31.147 | .092 | 79.0 | 31.351 | 24.455 | 1.226 | 364 |

## Lake Nitchequon, Que., Canada

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 270 | 17.894 | 21.140 | 17.893- | 15.217 | 0.114- | 14.675 | .038- | 156.0 | 15.369 | 14.515 | 1.180 | 448 |
| 700 | 03 | 285 | 7.809 | 21.635 | 7.531- | 14.940 | 2.067 | 15.648 | .090- | 121.5 | 16.048 | 14.509 | 1.134 | 459 |
| 700 | 06 | 282 | 16.583 | 17.858 | 16.209- | 12.203 | 3.501 | 13.038 | .045 | 72.0 | 13.120 | 12.114 | 1.178 | 456 |
| 700 | 09 | 267 | 18.779 | 21.082 | 18.753- | 13.775 | 0.990- | 15.959 | .002- | 90.5 | 15.958 | 13.776 | 1.158 | 454 |
| 500 | 12 | 264 | 27.377 | 29.219 | 27.237- | 20.053 | 2.759- | 21.252 | .083- | 117.5 | 21.685 | 19.583 | 1.205 | 450 |
| 500 | 03 | 276 | 13.339 | 28.826 | 13.258- | 21.163 | 1.467 | 19.572 | .118- | 151.0 | 21.776 | 18.887 | 1.141 | 449 |
| 500 | 06 | 282 | 25.354 | 23.137 | 24.810- | 14.675 | 5.226 | 17.888 | .099 | 76.5 | 18.060 | 14.462 | 1.175 | 456 |
| 500 | 09 | 268 | 27.281 | 28.693 | 27.255- | 18.190 | 1.184- | 22.190 | .025 | 86.0 | 22.212 | 18.163 | 1.181 | 454 |
| 300 | 12 | 259 | 39.820 | 38.316 | 39.047- | 25.420 | 7.806- | 28.670 | .126- | 113.0 | 29.349 | 24.632 | 1.227 | 445 |
| 300 | 03 | 279 | 21.922 | 39.821 | 21.644- | 28.105 | 3.480 | 28.211 | .168- | 134.5 | 30.460 | 25.649 | 1.180 | 457 |
| 300 | 06 | 282 | 35.945 | 34.225 | 35.116- | 21.923 | 7.672 | 26.282 | .041 | 83.0 | 26.340 | 21.853 | 1.173 | 460 |
| 300 | 09 | 267 | 38.848 | 40.400 | 38.787- | 23.277 | 2.188- | 33.021 | .056- | 94.5 | 33.069 | 23.208 | 1.166 | 455 |
| 200 | 12 | 259 | 40.115 | 35.737 | 39.363- | 24.576 | 7.730- | 25.945 | .148- | 125.0 | 27.192 | 23.190 | 1.293 | 450 |
| 200 | 03 | 277 | 23.018 | 32.080 | 22.830- | 22.477 | 2.935 | 22.889 | .157- | 131.5 | 24.421 | 20.802 | 1.203 | 457 |
| 200 | 06 | 285 | 36.979 | 34.124 | 35.732- | 20.772 | 9.525 | 27.073 | .054 | 83.5 | 27.130 | 20.697 | 1.164 | 458 |
| 200 | 09 | 264 | 41.453 | 36.716 | 41.231- | 21.010 | 4.285- | 30.111 | .003- | 90.5 | 30.111 | 21.010 | 1.168 | 454 |

## Mc Murray, Alta., Canada

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 299 | 17.102 | 17.443 | 14.953- | 11.782 | 8.301 | 12.862 | .201- | 123.0 | 13.610 | 10.909 | 1.212 | 450 |
| 700 | 03 | 291 | 9.955 | 18.042 | 9.295- | 13.149 | 3.564 | 12.355 | .118- | 148.5 | 13.579 | 11.879 | 1.139 | 459 |
| 700 | 06 | 296 | 8.858 | 16.435 | 7.979- | 11.036 | 3.845 | 12.179 | .037- | 100.5 | 12.207 | 11.006 | 1.165 | 456 |
| 700 | 09 | 293 | 15.610 | 17.249 | 14.349- | 11.440 | 6.147 | 12.909 | .154- | 116.0 | 13.333 | 10.942 | 1.193 | 455 |
| 500 | 12 | 294 | 26.835 | 25.933 | 24.469- | 17.467 | 11.017 | 19.168 | .095- | 113.0 | 19.515 | 17.079 | 1.264 | 450 |
| 500 | 03 | 282 | 15.591 | 24.150 | 15.251- | 16.293 | 3.238 | 17.826 | .096- | 113.5 | 18.155 | 15.925 | 1.149 | 449 |
| 500 | 03 | 278 | 13.309 | 20.908 | 13.179- | 13.583 | 1.858 | 15.895 | .028- | 95.0 | 15.918 | 13.557 | 1.142 | 458 |
| 500 | 09 | 289 | 22.114 | 25.178 | 20.905- | 15.938 | 7.213 | 19.491 | .050 | 82.5 | 19.550 | 15.866 | 1.166 | 454 |
| 300 | 12 | 294 | 36.799 | 35.343 | 33.513- | 21.892 | 15.200 | 27.747 | .046- | 95.5 | 27.792 | 21.834 | 1.216 | 447 |
| 300 | 03 | 274 | 21.811 | 36.124 | 21.746- | 22.450 | 1.683 | 28.301 | .135- | 105.0 | 28.700 | 21.938 | 1.131 | 457 |
| 300 | 06 | 267 | 19.099 | 33.512 | 19.077- | 22.219 | 0.920- | 25.087 | .004- | 91.0 | 25.085 | 22.220 | 1.146 | 460 |
| 300 | 09 | 280 | 30.014 | 38.507 | 29.518- | 24.723 | 5.429 | 29.522 | .109 | 73.5 | 29.903 | 24.261 | 1.143 | 455 |
| 200 | 12 | 291 | 33.064 | 31.325 | 30.880- | 19.781 | 11.817 | 24.290 | .114- | 104.5 | 24.578 | 19.422 | 1.229 | 449 |
| 200 | 03 | 267 | 17.930 | 31.141 | 17.907- | 19.450 | 0.913- | 24.321 | .047- | 96.0 | 24.363 | 19.397 | 1.140 | 457 |
| 200 | 06 | 259 | 18.870 | 32.191 | 18.493- | 20.549 | 3.755- | 24.779 | .059 | 80.5 | 24.884 | 20.421 | 1.138 | 458 |
| 200 | 09 | 280 | 28.974 | 34.795 | 28.520- | 21.847 | 5.106 | 27.081 | .045 | 83.5 | 27.131 | 21.785 | 1.156 | 454 |

## Moosonee, Ont., Canada

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 278 | 19.259 | 21.660 | 19.081- | 15.323 | 2.611 | 15.310 | .013 | 43.0 | 15.416 | 15.216 | 1.166 | 449 |
| 700 | 03 | 291 | 9.581 | 22.603 | 8.918- | 16.333 | 3.500 | 15.623 | .023- | 166.0 | 16.378 | 15.576 | 1.128 | 460 |
| 700 | 06 | 284 | 18.037 | 18.027 | 17.534- | 11.999 | 4.230 | 13.453 | .125 | 66.0 | 13.780 | 11.622 | 1.187 | 459 |
| 700 | 09 | 277 | 18.180 | 21.650 | 18.028- | 14.530 | 2.344 | 16.051 | .092 | 68.5 | 16.311 | 14.238 | 1.155 | 455 |
| 500 | 12 | 276 | 31.883 | 30.728 | 31.685- | 21.198 | 3.538 | 22.245 | .071 | 62.0 | 22.644 | 20.772 | 1.233 | 451 |
| 500 | 03 | 288 | 16.862 | 29.153 | 16.014- | 20.921 | 5.281 | 20.303 | .109- | 142.5 | 21.757 | 19.405 | 1.128 | 460 |
| 500 | 06 | 283 | 26.443 | 22.277 | 25.725- | 14.854 | 6.119 | 16.601 | .123 | 66.0 | 17.003 | 14.392 | 1.211 | 460 |
| 500 | 09 | 278 | 27.064 | 30.414 | 26.826- | 19.854 | 3.582 | 23.040 | .061 | 79.0 | 23.162 | 19.712 | 1.161 | 455 |
| 300 | 12 | 276 | 44.360 | 41.179 | 44.123- | 28.181 | 4.576 | 30.026 | .001 | 89.5 | 30.026 | 28.181 | 1.261 | 449 |
| 300 | 03 | 285 | 25.321 | 40.104 | 24.462- | 27.314 | 6.541 | 29.365 | .133- | 120.5 | 30.429 | 26.123 | 1.152 | 460 |
| 300 | 06 | 283 | 36.850 | 34.093 | 35.895- | 21.301 | 8.334 | 26.620 | .035 | 85.5 | 26.650 | 21.264 | 1.173 | 460 |
| 300 | 09 | 279 | 38.063 | 41.930 | 37.615- | 25.866 | 5.822 | 33.000 | .010 | 89.0 | 33.003 | 25.862 | 1.168 | 455 |
| 200 | 12 | 272 | 43.448 | 35.541 | 43.413- | 24.417 | 1.735 | 25.825 | .140 | 56.0 | 26.960 | 23.158 | 1.291 | 449 |
| 200 | 03 | 279 | 23.328 | 33.411 | 23.053- | 22.695 | 3.568 | 24.521 | .143- | 121.0 | 25.476 | 21.617 | 1.160 | 459 |
| 200 | 06 | 282 | 35.893 | 34.237 | 35.085- | 22.204 | 7.573 | 26.060 | .037 | 83.5 | 26.109 | 22.147 | 1.166 | 460 |
| 200 | 09 | 276 | 39.103 | 38.857 | 38.906- | 24.226 | 3.920 | 30.381 | .026 | 86.5 | 30.399 | 24.203 | 1.187 | 454 |

## Mould Bay, N.W.T., Canada

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 336 | 6.349 | 16.515 | 2.609- | 10.543 | 5.788 | 12.711 | .016- | 92.5 | 12.715 | 10.538 | 1.136 | 451 |
| 700 | 03 | 324 | 4.010 | 16.447 | 2.346- | 11.850 | 3.251 | 11.405 | .086- | 147.0 | 12.165 | 11.068 | 1.140 | 460 |
| 700 | 06 | 302 | 8.157 | 15.701 | 6.917- | 11.329 | 4.323 | 10.870 | .070 | 30.0 | 11.547 | 10.638 | 1.172 | 459 |
| 700 | 09 | 317 | 7.717 | 15.610 | 5.274- | 10.869 | 5.635 | 11.203 | .011 | 80.0 | 11.214 | 10.857 | 1.159 | 455 |
| 500 | 12 | 329 | 9.070 | 23.238 | 4.737- | 14.994 | 7.736- | 17.754 | .196- | 114.5 | 18.416 | 14.174 | 1.132 | 451 |
| 500 | 03 | 309 | 8.002 | 22.311 | 6.254- | 15.850 | 4.991 | 15.702 | .133- | 137.0 | 16.796 | 14.686 | 1.140 | 460 |
| 500 | 06 | 305 | 12.133 | 19.548 | 9.958- | 13.800 | 6.931 | 13.844 | .041 | 47.0 | 14.107 | 13.531 | 1.177 | 460 |
| 500 | 09 | 302 | 12.858 | 20.043 | 10.945- | 13.874 | 6.749 | 14.466 | .048 | 65.5 | 14.618 | 13.714 | 1.160 | 455 |
| 300 | 12 | 321 | 12.270 | 26.302 | 7.736- | 17.839 | 9.524 | 19.328 | .207 | 55.5 | 20.558 | 16.406 | 1.132 | 450 |
| 300 | 03 | 292 | 12.363 | 26.012 | 11.427- | 18.777 | 4.720 | 18.001 | .035- | 160.0 | 18.893 | 17.879 | 1.150 | 460 |
| 300 | 06 | 296 | 18.331 | 26.441 | 16.489- | 19.000 | 8.010 | 18.388 | .061 | 31.0 | 19.333 | 18.037 | 1.194 | 461 |
| 300 | 09 | 291 | 18.155 | 21.106 | 16.997- | 14.208 | 6.380 | 15.608 | .067 | 72.0 | 15.760 | 14.039 | 1.227 | 455 |
| 200 | 12 | 313 | 14.608 | 23.443 | 10.766- | 16.121 | 9.873 | 17.020 | .273 | 50.5 | 18.740 | 14.085 | 1.170 | 449 |
| 200 | 03 | 287 | 12.634 | 20.074 | 12.064- | 14.974 | 3.751 | 13.370 | .017 | 4.5 | 14.983 | 13.360 | 1.161 | 460 |
| 200 | 06 | 293 | 14.879 | 20.416 | 13.731- | 15.103 | 5.730 | 13.737 | .110 | 24.5 | 15.448 | 13.348 | 1.187 | 461 |
| 200 | 09 | 291 | 18.155 | 21.106 | 16.997- | 14.208 | 6.380 | 15.608 | .067 | 72.0 | 15.760 | 14.039 | 1.227 | 455 |

## Norman Wells, N.W.T., Canada

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 296 | 8.546 | 16.442 | 7.663- | 11.233 | 3.782 | 12.006 | .052- | 109.0 | 12.118 | 11.112 | 1.142 | 450 |
| 700 | 03 | 263 | 6.830 | 14.005 | 6.782- | 9.684 | 0.805- | 10.118 | .117- | 125.0 | 10.508 | 09.260 | 1.134 | 459 |
| 700 | 06 | 295 | 6.371 | 12.657 | 5.782- | 8.899 | 2.677 | 9.000 | .211- | 133.5 | 9.855 | 07.942 | 1.178 | 457 |
| 700 | 09 | 268 | 9.134 | 13.574 | 9.125- | 9.351 | 0.397- | 9.840 | .068- | 117.0 | 10.003 | 09.175 | 1.161 | 455 |
| 500 | 12 | 295 | 15.452 | 22.885 | 13.987- | 14.889 | 6.567 | 17.380 | .042 | 82.0 | 17.426 | 14.835 | 1.155 | 450 |
| 500 | 03 | 264 | 11.680 | 20.957 | 11.621- | 13.868 | 1.170- | 15.712 | .094- | 108.5 | 15.933 | 13.614 | 1.123 | 450 |
| 500 | 06 | 288 | 8.627 | 17.710 | 8.218- | 12.168 | 2.625 | 12.868 | .242- | 128.5 | 13.995 | 10.853 | 1.170 | 458 |
| 500 | 09 | 267 | 14.146 | 18.829 | 14.129- | 12.050 | 0.680- | 14.469 | .024 | 85.5 | 14.485 | 12.031 | 1.197 | 455 |
| 300 | 12 | 300 | 21.381 | 30.873 | 18.561- | 19.384 | 10.612 | 24.029 | .105 | 76.5 | 24.262 | 19.092 | 1.169 | 447 |
| 300 | 03 | 263 | 15.955 | 29.867 | 15.840- | 19.054 | 1.908- | 23.000 | .147- | 109.0 | 23.482 | 18.456 | 1.134 | 457 |
| 300 | 06 | 279 | 11.196 | 26.964 | 11.042- | 18.326 | 1.847 | 19.779 | .159- | 122.0 | 20.695 | 17.286 | 1.137 | 460 |
| 300 | 09 | 266 | 20.764 | 28.524 | 20.710- | 17.943 | 1.499- | 22.174 | .024 | 86.5 | 22.194 | 17.918 | 1.164 | 455 |
| 200 | 12 | 296 | 21.338 | 28.404 | 19.170- | 17.104 | 9.370 | 22.676 | .153 | 75.5 | 22.997 | 16.670 | 1.187 | 449 |
| 200 | 03 | 253 | 14.538 | 24.399 | 13.898- | 16.713 | 4.265- | 17.776 | .174- | 125.5 | 18.791 | 15.563 | 1.130 | 457 |
| 200 | 06 | 266 | 9.551 | 24.815 | 9.527- | 17.323 | 0.673- | 17.768 | .138- | 130.0 | 18.735 | 16.272 | 1.116 | 459 |
| 200 | 09 | 263 | 21.217 | 25.203 | 21.075- | 15.089 | 2.452- | 20.187 | .006 | 89.0 | 20.187 | 15.089 | 1.163 | 454 |

## Port Harrison, Que., Canada

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 277 | 12.803 | 18.111 | 12.703- | 12.691 | 1.591 | 12.922 | .079- | 128.5 | 13.303 | 12.290 | 1.165 | 450 |
| 700 | 03 | 299 | 6.205 | 19.138 | 5.426- | 13.672 | 3.010 | 13.392 | .105- | 140.0 | 14.238 | 12.789 | 1.113 | 459 |
| 700 | 06 | 293 | 10.546 | 18.219 | 9.717- | 13.083 | 4.100 | 12.679 | .006- | 174.0 | 13.083 | 12.679 | 1.137 | 457 |
| 700 | 09 | 289 | 12.031 | 18.915 | 11.381- | 13.482 | 3.903 | 13.267 | .034 | 32.5 | 13.610 | 13.136 | 1.135 | 453 |
| 500 | 12 | 274 | 18.805 | 24.958 | 18.755- | 18.962 | 1.369 | 16.228 | .000- | 179.5 | 18.961 | 16.229 | 1.201 | 450 |
| 500 | 03 | 289 | 10.926 | 26.607 | 10.301- | 18.256 | 3.642 | 19.356 | .161- | 125.0 | 20.361 | 17.128 | 1.129 | 449 |
| 500 | 06 | 291 | 17.407 | 22.330 | 16.224- | 15.063 | 6.308 | 16.484 | .029 | 80.5 | 16.523 | 15.020 | 1.147 | 457 |
| 500 | 09 | 283 | 19.077 | 26.524 | 18.568- | 17.506 | 4.378 | 19.927 | .075- | 105.0 | 20.112 | 17.293 | 1.177 | 454 |
| 300 | 12 | 271 | 25.147 | 31.719 | 25.139- | 22.286 | 0.607 | 22.571 | .159- | 132.5 | 24.174 | 20.536 | 1.226 | 447 |
| 300 | 03 | 283 | 17.380 | 35.420 | 16.917- | 24.812 | 3.984 | 25.278 | .196- | 132.5 | 27.388 | 22.461 | 1.148 | 457 |
| 300 | 06 | 287 | 26.877 | 32.825 | 25.650- | 22.356 | 8.027 | 24.034 | .087 | 64.5 | 24.509 | 21.835 | 1.161 | 460 |
| 300 | 09 | 286 | 28.163 | 35.568 | 27.019- | 22.825 | 7.944 | 27.278 | .103- | 105.0 | 27.602 | 22.433 | 1.176 | 455 |
| 200 | 12 | 271 | 26.410 | 29.757 | 26.404- | 21.068 | 0.545 | 21.015 | .124- | 135.0 | 22.333 | 19.666 | 1.264 | 449 |
| 200 | 03 | 282 | 17.737 | 29.014 | 17.360- | 20.622 | 3.638 | 20.409 | .172- | 136.0 | 22.226 | 18.650 | 1.187 | 457 |
| 200 | 06 | 287 | 27.273 | 29.715 | 26.098- | 20.733 | 7.922 | 21.288 | .056 | 57.0 | 21.636 | 20.369 | 1.202 | 458 |
| 200 | 09 | 283 | 29.739 | 31.959 | 29.013- | 19.860 | 6.532 | 25.039 | .014- | 91.5 | 25.040 | 19.859 | 1.168 | 454 |

## Prince Albert, Sask., Canada

| P | J | $\bar{\Theta}$ | $\overline{\|V\|}$ | $S_V$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_V/S_S$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 296 | 19.263 | 16.951 | 17.305- | 10.276 | 8.463 | 13.481 | .202- | 108.0 | 13.819 | 09.817 | 1.226 | 450 |
| 700 | 03 | 292 | 9.988 | 17.983 | 9.276- | 12.188 | 3.704 | 13.223 | .161- | 121.5 | 13.815 | 11.513 | 1.131 | 459 |
| 700 | 06 | 285 | 11.701 | 16.633 | 11.322- | 10.883 | 2.955 | 12.579 | .164- | 114.5 | 12.975 | 10.407 | 1.161 | 456 |
| 700 | 09 | 293 | 17.380 | 17.013 | 16.009- | 11.059 | 6.766 | 12.929 | .180- | 114.5 | 13.380 | 10.508 | 1.212 | 455 |
| 500 | 12 | 292 | 29.812 | 25.725 | 27.611- | 16.299 | 11.241 | 19.902 | .191- | 112.0 | 20.523 | 15.511 | 1.273 | 450 |
| 500 | 03 | 285 | 17.645 | 24.103 | 17.042- | 15.771 | 4.572 | 18.227 | .120- | 110.0 | 18.578 | 15.357 | 1.162 | 449 |
| 500 | 06 | 268 | 18.261 | 21.339 | 18.245- | 13.138 | 0.765- | 16.815 | .045- | 95.0 | 16.840 | 13.105 | 1.174 | 457 |
| 500 | 09 | 285 | 24.850 | 26.030 | 23.963- | 16.264 | 6.580 | 20.323 | .043- | 95.5 | 20.361 | 16.218 | 1.199 | 454 |
| 300 | 12 | 288 | 39.415 | 36.085 | 37.531- | 21.384 | 12.042 | 29.066 | .089- | 98.0 | 29.201 | 21.200 | 1.193 | 447 |
| 300 | 03 | 270 | 22.505 | 35.066 | 22.505- | 22.076 | 0.077 | 27.245 | .172- | 109.5 | 27.919 | 21.217 | 1.123 | 457 |
| 300 | 06 | 256 | 27.892 | 32.845 | 27.063- | 21.088 | 6.748- | 25.182 | .007- | 91.5 | 25.181 | 21.089 | 1.164 | 460 |
| 300 | 09 | 275 | 31.434 | 39.150 | 31.291- | 24.865 | 2.998 | 30.240 | .035 | 84.5 | 30.270 | 24.828 | 1.154 | 455 |
| 200 | 12 | 287 | 34.948 | 31.388 | 33.503- | 18.757 | 9.944 | 25.167 | .128- | 101.5 | 25.407 | 18.431 | 1.242 | 449 |
| 200 | 03 | 258 | 18.897 | 29.472 | 18.504- | 18.588 | 3.832- | 22.871 | .211- | 112.5 | 23.682 | 17.543 | 1.130 | 457 |
| 200 | 06 | 245 | 29.619 | 32.636 | 26.868- | 19.440 | 12.467- | 26.214 | .008 | 88.5 | 26.216 | 19.439 | 1.172 | 458 |
| 200 | 09 | 272 | 30.630 | 37.015 | 30.617- | 22.841 | 0.883 | 29.127 | .003 | 89.0 | 29.128 | 22.840 | 1.153 | 454 |

## Prince George, B.C., Canada

| P | J | $\bar{\Theta}$ | $\overline{\|V\|}$ | $S_V$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_V/S_S$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 262 | 15.514 | 21.347 | 15.354- | 15.217 | 2.223- | 14.972 | .016 | 22.5 | 15.267 | 14.921 | 1.179 | 451 |
| 700 | 03 | 248 | 10.623 | 18.215 | 9.853- | 13.003 | 3.970- | 12.755 | .039 | 32.0 | 13.162 | 12.591 | 1.162 | 461 |
| 700 | 06 | 255 | 7.527 | 15.436 | 7.280- | 11.335 | 1.910- | 10.477 | .168 | 32.5 | 11.885 | 09.849 | 1.149 | 459 |
| 700 | 09 | 256 | 15.010 | 18.651 | 14.563- | 13.059 | 3.637- | 13.317 | .054 | 55.0 | 13.566 | 12.800 | 1.189 | 456 |
| 500 | 12 | 273 | 26.233 | 29.164 | 26.196- | 18.882 | 1.406 | 22.227 | .112 | 72.5 | 22.556 | 18.488 | 1.204 | 451 |
| 500 | 03 | 260 | 16.629 | 28.897 | 16.350- | 19.100 | 3.030- | 21.684 | .011- | 92.5 | 21.688 | 19.095 | 1.171 | 460 |
| 500 | 06 | 266 | 10.882 | 23.517 | 10.855- | 15.849 | 0.770- | 17.374 | .046 | 76.5 | 17.463 | 15.751 | 1.173 | 460 |
| 500 | 09 | 262 | 24.379 | 28.123 | 24.114- | 17.478 | 3.589- | 22.032 | .034 | 86.0 | 22.054 | 17.450 | 1.186 | 457 |
| 300 | 12 | 280 | 37.385 | 41.935 | 36.866- | 27.807 | 6.206 | 31.390 | .020- | 94.5 | 31.413 | 27.781 | 1.227 | 361 |
| 300 | 03 | 265 | 22.077 | 40.707 | 21.981- | 27.277 | 2.050- | 30.216 | .121- | 115.0 | 30.975 | 26.412 | 1.136 | 307 |
| 300 | 06 | 279 | 16.710 | 37.145 | 16.485- | 24.326 | 2.731 | 28.071 | .048- | 99.5 | 28.168 | 24.213 | 1.154 | 275 |
| 300 | 09 | 267 | 36.490 | 40.443 | 36.430- | 24.423 | 2.101- | 32.235 | .061- | 96.0 | 32.316 | 24.315 | 1.175 | 334 |
| 200 | 12 | 284 | 35.920 | 33.051 | 34.900- | 21.357 | 8.500 | 25.224 | .004 | 89.0 | 25.225 | 21.356 | 1.262 | 358 |
| 200 | 03 | 275 | 18.403 | 32.467 | 18.345- | 22.355 | 1.466 | 23.545 | .173- | 126.5 | 24.947 | 20.779 | 1.194 | 307 |
| 200 | 06 | 280 | 19.478 | 31.198 | 19.160- | 20.770 | 3.507 | 23.280 | .077- | 107.0 | 23.527 | 20.489 | 1.176 | 275 |
| 200 | 09 | 270 | 34.727 | 34.979 | 34.727- | 21.479 | 0.043 | 27.608 | .027- | 93.0 | 27.624 | 21.459 | 1.192 | 333 |

## Resolute Bay, N.W.T., Canada

| P | J | $\bar{\Theta}$ | $\overline{\|V\|}$ | $S_V$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_V/S_S$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 013 | 4.927 | 20.261 | 1.095 | 14.059 | 4.803 | 14.590 | .031 | 70.0 | 14.670 | 13.976 | 1.164 | 452 |
| 700 | 03 | 328 | 5.360 | 19.791 | 2.809- | 13.599 | 4.565 | 14.379 | .073- | 116.5 | 14.622 | 13.337 | 1.146 | 460 |
| 700 | 06 | 349 | 3.666 | 19.833 | 0.696- | 13.703 | 3.599 | 14.337 | .050- | 114.0 | 14.489 | 13.542 | 1.133 | 460 |
| 700 | 09 | 336 | 7.032 | 19.103 | 2.856- | 13.837 | 6.426 | 13.170 | .068 | 27.0 | 14.063 | 12.928 | 1.160 | 451 |
| 500 | 12 | 021 | 3.962 | 26.663 | 1.452 | 18.916 | 3.686 | 18.792 | .032 | 39.5 | 19.166 | 18.537 | 1.154 | 451 |
| 500 | 03 | 318 | 8.052 | 27.857 | 5.417- | 19.370 | 5.957 | 20.020 | .053- | 119.0 | 20.306 | 19.070 | 1.146 | 460 |
| 500 | 06 | 325 | 5.009 | 26.814 | 2.856- | 18.614 | 4.115 | 19.300 | .055- | 118.5 | 19.578 | 18.321 | 1.155 | 460 |
| 500 | 09 | 324 | 10.503 | 24.689 | 6.235- | 17.833 | 8.452 | 17.074 | .018 | 11.5 | 17.865 | 17.041 | 1.156 | 455 |
| 300 | 12 | 354 | 3.857 | 29.092 | 0.421- | 21.224 | 3.835 | 19.897 | .077 | 25.0 | 21.580 | 19.510 | 1.177 | 452 |
| 300 | 03 | 306 | 11.176 | 30.221 | 9.058- | 21.095 | 6.545 | 21.641 | .030- | 115.0 | 21.789 | 20.942 | 1.155 | 460 |
| 300 | 06 | 313 | 7.360 | 36.067 | 5.344- | 24.258 | 5.061 | 26.690 | .016- | 95.0 | 26.706 | 24.240 | 1.173 | 460 |
| 300 | 09 | 310 | 14.180 | 28.551 | 10.902- | 20.757 | 9.068 | 19.604 | .007 | 3.5 | 20.761 | 19.599 | 1.179 | 455 |
| 200 | 12 | 324 | 6.877 | 22.279 | 4.086- | 16.747 | 5.531 | 14.694 | .050 | 10.5 | 16.817 | 14.614 | 1.171 | 450 |
| 200 | 03 | 297 | 10.137 | 20.671 | 9.064- | 15.095 | 4.538 | 14.123 | .072- | 156.0 | 15.319 | 13.879 | 1.171 | 460 |
| 200 | 06 | 309 | 7.802 | 23.081 | 6.075- | 16.595 | 4.895 | 16.042 | .078- | 146.5 | 17.005 | 15.607 | 1.228 | 459 |
| 200 | 09 | 298 | 13.390 | 21.528 | 11.813- | 15.322 | 6.303 | 15.123 | .031- | 146.5 | 15.478 | 14.964 | 1.225 | 454 |

## Sable Island, N.S., Canada

| P | J | $\bar{\Theta}$ | $\overline{\|V\|}$ | $S_V$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_V/S_S$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 264 | 14.416 | 19.836 | 14.347- | 15.562 | 1.412- | 12.301 | .137- | 165.0 | 15.788 | 12.009 | 1.130 | 37 |
| 850 | 03 | 289 | 12.202 | 22.737 | 11.529- | 16.952 | 3.995 | 15.152 | .219- | 148.5 | 17.937 | 13.972 | 1.144 | 71 |
| 850 | 06 | 267 | 14.614 | 17.228 | 14.596- | 12.642 | 0.723- | 11.704 | .039- | 166.5 | 12.715 | 11.625 | 1.315 | 100 |
| 850 | 09 | 273 | 14.138 | 15.712 | 14.116- | 11.921 | 0.787 | 10.235 | .165 | 23.5 | 12.291 | 09.787 | 1.256 | 69 |
| 700 | 12 | 264 | 27.674 | 26.293 | 27.537- | 18.794 | 2.749- | 18.387 | .066 | 36.0 | 19.204 | 17.959 | 1.191 | 451 |
| 700 | 03 | 260 | 18.674 | 25.186 | 18.371- | 17.640 | 3.349- | 17.977 | .042 | 57.0 | 18.237 | 17.371 | 1.158 | 460 |
| 700 | 06 | 267 | 17.589 | 17.392 | 17.565- | 12.044 | 0.917- | 12.546 | .159 | 52.0 | 13.265 | 11.248 | 1.188 | 460 |
| 700 | 09 | 264 | 21.337 | 22.648 | 21.213- | 15.052 | 2.291- | 16.922 | .169 | 62.5 | 17.583 | 14.275 | 1.171 | 455 |
| 500 | 12 | 263 | 43.287 | 36.997 | 42.957- | 26.622 | 5.339- | 25.692 | .042 | 25.0 | 26.896 | 25.405 | 1.222 | 451 |
| 500 | 03 | 260 | 29.975 | 34.533 | 29.496- | 23.346 | 5.336- | 25.447 | .021 | 83.0 | 25.443 | 23.349 | 1.202 | 460 |
| 500 | 06 | 267 | 26.934 | 21.663 | 26.905- | 14.904 | 1.259- | 15.722 | .074 | 62.5 | 16.021 | 14.582 | 1.266 | 460 |
| 500 | 09 | 262 | 33.408 | 31.125 | 33.074- | 20.301 | 4.716- | 23.593 | .291 | 58.5 | 25.331 | 18.087 | 1.251 | 455 |
| 300 | 12 | 261 | 58.387 | 48.008 | 57.588- | 33.417 | 9.626- | 34.469 | .026 | 69.5 | 34.689 | 33.189 | 1.230 | 451 |
| 300 | 03 | 259 | 42.795 | 44.334 | 41.938- | 30.070 | 8.524- | 32.577 | .074 | 68.5 | 32.979 | 29.629 | 1.222 | 429 |
| 300 | 06 | 264 | 40.447 | 33.938 | 40.240- | 23.213 | 4.091- | 24.758 | .080 | 64.5 | 25.231 | 22.698 | 1.309 | 368 |
| 300 | 09 | 259 | 50.157 | 42.612 | 49.296- | 28.117 | 9.249- | 32.019 | .208 | 61.0 | 33.590 | 26.219 | 1.277 | 365 |
| 200 | 12 | 261 | 58.479 | 43.242 | 57.776- | 29.077 | 9.045- | 32.006 | .081 | 70.0 | 32.457 | 28.573 | 1.244 | 451 |
| 200 | 03 | 258 | 41.959 | 38.803 | 41.082- | 25.142 | 8.537- | 29.556 | .042 | 82.5 | 29.632 | 25.052 | 1.237 | 429 |
| 200 | 06 | 262 | 40.246 | 34.127 | 39.891- | 23.512 | 5.334- | 24.735 | .163 | 53.5 | 26.123 | 21.960 | 1.312 | 368 |
| 200 | 09 | 258 | 52.391 | 40.434 | 51.151- | 27.969 | 11.333- | 29.200 | .313 | 49.0 | 32.796 | 23.651 | 1.344 | 364 |

## Stephenville, Nfld., Canada

| P | J | $\bar{\Theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 258 | 13.392 | 24.909 | 13.119- | 16.360 | 2.691- | 18.783 | .040- | 98.0 | 18.840 | 16.294 | 1.181 | 391 |
| 850 | 03 | 234 | 5.019 | 23.093 | 4.035- | 17.063 | 2.984- | 15.560 | .010- | 176.5 | 17.064 | 15.559 | 1.142 | 410 |
| 850 | 06 | 263 | 12.291 | 19.093 | 12.195- | 13.826 | 1.533- | 13.168 | .088 | 30.5 | 14.171 | 12.796 | 1.203 | 433 |
| 850 | 09 | 265 | 13.862 | 23.897 | 13.802- | 16.247 | 1.287- | 17.524 | .201 | 55.5 | 18.631 | 14.965 | 1.193 | 396 |
| 700 | 12 | 262 | 24.148 | 29.132 | 23.910- | 21.305 | 3.383- | 19.869 | .036 | 14.0 | 21.369 | 19.800 | 1.196 | 451 |
| 700 | 03 | 258 | 11.222 | 27.053 | 10.986- | 19.163 | 2.287- | 19.096 | .017 | 39.0 | 19.296 | 18.961 | 1.147 | 460 |
| 700 | 06 | 271 | 18.378 | 21.735 | 18.374- | 15.285 | 0.362 | 15.453 | .120 | 47.5 | 16.286 | 14.394 | 1.244 | 460 |
| 700 | 09 | 271 | 22.691 | 26.151 | 22.690- | 17.267 | 0.254 | 19.640 | .144 | 66.0 | 20.193 | 16.617 | 1.195 | 455 |
| 500 | 12 | 260 | 36.738 | 37.447 | 36.143- | 26.194 | 6.584- | 26.761 | .004- | 95.5 | 26.767 | 26.189 | 1.221 | 450 |
| 500 | 03 | 256 | 19.833 | 38.232 | 19.253- | 27.456 | 4.758- | 26.605 | .063- | 148.5 | 27.971 | 26.063 | 1.178 | 460 |
| 500 | 06 | 270 | 27.349 | 27.088 | 27.348- | 18.397 | 0.194- | 19.883 | .136 | 60.0 | 20.609 | 17.580 | 1.236 | 460 |
| 500 | 09 | 266 | 34.773 | 35.432 | 34.691- | 22.439 | 2.387- | 27.421 | .104 | 76.5 | 27.706 | 22.086 | 1.209 | 454 |
| 300 | 12 | 258 | 53.445 | 49.109 | 52.193- | 33.633 | 11.499- | 35.785 | .122- | 121.5 | 37.028 | 32.259 | 1.227 | 451 |
| 300 | 03 | 256 | 32.585 | 50.306 | 31.589- | 35.486 | 7.996- | 35.658 | .031- | 130.5 | 36.134 | 35.001 | 1.201 | 429 |
| 300 | 06 | 266 | 44.070 | 40.055 | 43.964- | 26.917 | 3.054- | 29.663 | .144 | 62.0 | 30.685 | 25.746 | 1.234 | 368 |
| 300 | 09 | 261 | 55.345 | 46.872 | 54.730- | 30.233 | 8.229- | 35.819 | .174 | 67.0 | 36.930 | 28.866 | 1.264 | 364 |
| 200 | 12 | 257 | 56.025 | 45.173 | 54.610- | 31.826 | 12.512- | 32.058 | .006- | 112.0 | 32.068 | 31.817 | 1.312 | 451 |
| 200 | 03 | 259 | 35.614 | 41.164 | 34.989- | 29.577 | 6.644- | 28.630 | .029- | 159.0 | 29.759 | 28.441 | 1.261 | 429 |
| 200 | 06 | 265 | 50.352 | 40.413 | 50.179- | 26.941 | 4.175- | 30.123 | .161 | 62.5 | 31.239 | 25.639 | 1.281 | 368 |
| 200 | 09 | 261 | 59.609 | 46.630 | 58.830- | 31.121 | 9.608- | 34.725 | .198 | 59.5 | 36.521 | 28.993 | 1.287 | 364 |

## The Pas, Man., Canada

| P | J | $\bar{\Theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 298 | 18.542 | 17.529 | 16.428- | 11.139 | 8.597 | 13.534 | .128- | 106.5 | 13.747 | 10.875 | 1.206 | 451 |
| 700 | 03 | 298 | 9.228 | 17.850 | 8.176- | 12.347 | 4.279 | 12.891 | .102- | 123.5 | 13.302 | 11.903 | 1.141 | 460 |
| 700 | 06 | 289 | 12.687 | 16.887 | 12.018- | 11.135 | 4.064 | 12.696 | .100- | 108.5 | 12.884 | 10.917 | 1.202 | 459 |
| 700 | 09 | 294 | 16.243 | 17.823 | 14.833- | 11.635 | 6.617 | 13.502 | .066- | 102.0 | 13.585 | 11.538 | 1.179 | 455 |
| 500 | 12 | 293 | 29.238 | 25.729 | 26.981- | 16.459 | 11.265 | 19.775 | .135- | 108.0 | 20.137 | 16.014 | 1.283 | 451 |
| 500 | 03 | 285 | 16.544 | 22.659 | 15.998- | 15.249 | 4.214 | 16.761 | .095- | 112.5 | 17.060 | 14.914 | 1.144 | 460 |
| 500 | 06 | 278 | 19.077 | 20.610 | 18.878- | 13.406 | 2.746 | 15.653 | .016- | 93.0 | 15.659 | 13.399 | 1.188 | 460 |
| 500 | 09 | 289 | 23.649 | 25.313 | 22.400- | 16.370 | 7.582 | 19.307 | .050 | 81.5 | 19.369 | 16.296 | 1.165 | 455 |
| 300 | 12 | 290 | 37.796 | 35.416 | 35.557- | 22.203 | 12.813 | 27.592 | .059- | 97.5 | 27.680 | 22.093 | 1.194 | 451 |
| 300 | 03 | 282 | 22.293 | 32.914 | 21.843- | 21.600 | 4.460 | 24.835 | .152- | 113.5 | 25.550 | 20.750 | 1.143 | 459 |
| 300 | 06 | 272 | 27.328 | 30.414 | 27.318- | 20.338 | 0.737 | 22.613 | .054 | 76.5 | 22.746 | 20.189 | 1.159 | 460 |
| 300 | 09 | 286 | 30.696 | 38.260 | 29.469- | 23.870 | 8.593 | 29.900 | .057 | 83.0 | 29.985 | 23.763 | 1.139 | 455 |
| 200 | 12 | 289 | 34.736 | 30.943 | 32.800- | 19.370 | 11.435 | 24.130 | .013 | 88.0 | 24.134 | 19.365 | 1.258 | 449 |
| 200 | 03 | 276 | 17.680 | 28.131 | 17.594- | 18.984 | 1.746 | 20.760 | .119- | 116.5 | 21.319 | 18.354 | 1.154 | 460 |
| 200 | 06 | 264 | 28.860 | 29.990 | 28.688- | 19.280 | 3.145- | 22.972 | .086 | 77.0 | 23.164 | 19.049 | 1.184 | 460 |
| 200 | 09 | 283 | 29.753 | 36.504 | 28.970- | 22.460 | 6.783 | 28.777 | .016 | 88.0 | 28.783 | 22.452 | 1.147 | 454 |

## Trout Lake, Ont., Canada

| P | J | $\bar{\Theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 291 | 17.665 | 19.580 | 16.521- | 14.153 | 6.253 | 13.530 | .032 | 17.5 | 14.221 | 13.458 | 1.193 | 450 |
| 700 | 03 | 304 | 10.017 | 20.905 | 8.308- | 14.408 | 5.597 | 15.147 | .007- | 94.0 | 15.144 | 14.411 | 1.143 | 459 |
| 700 | 06 | 286 | 15.593 | 18.026 | 14.991- | 12.154 | 4.292 | 13.312 | .036 | 78.5 | 13.342 | 12.120 | 1.181 | 459 |
| 700 | 09 | 287 | 15.126 | 20.512 | 14.462- | 13.850 | 4.433 | 15.130 | .029 | 80.0 | 15.166 | 13.811 | 1.143 | 455 |
| 500 | 12 | 287 | 28.113 | 27.826 | 26.856- | 19.846 | 8.312 | 19.505 | .087 | 39.5 | 20.553 | 18.759 | 1.258 | 450 |
| 500 | 03 | 293 | 16.432 | 25.948 | 15.134- | 17.816 | 6.402 | 18.865 | .113- | 121.5 | 19.480 | 17.141 | 1.141 | 449 |
| 500 | 06 | 287 | 23.852 | 22.020 | 22.869- | 14.136 | 6.777 | 16.883 | .021 | 86.0 | 16.884 | 14.135 | 1.179 | 459 |
| 500 | 09 | 288 | 24.788 | 27.692 | 23.618- | 17.750 | 7.527 | 21.255 | .023- | 94.0 | 21.282 | 17.719 | 1.175 | 454 |
| 300 | 12 | 287 | 39.030 | 35.243 | 37.228- | 23.793 | 11.722 | 25.999 | .088 | 67.0 | 26.438 | 23.304 | 1.267 | 449 |
| 300 | 03 | 288 | 25.085 | 36.383 | 23.813- | 24.480 | 7.884 | 26.915 | .092- | 112.0 | 27.393 | 23.944 | 1.155 | 457 |
| 300 | 06 | 284 | 34.817 | 33.216 | 33.791- | 21.951 | 8.392 | 24.928 | .053 | 78.0 | 25.053 | 21.808 | 1.198 | 460 |
| 300 | 09 | 293 | 34.284 | 39.883 | 31.526- | 24.898 | 13.472 | 31.156 | .030 | 85.5 | 31.184 | 24.863 | 1.169 | 455 |
| 200 | 12 | 287 | 37.493 | 31.624 | 35.852- | 21.262 | 10.971 | 23.410 | .131 | 62.5 | 24.098 | 20.478 | 1.291 | 449 |
| 200 | 03 | 286 | 22.093 | 30.116 | 21.282- | 20.295 | 5.934 | 22.251 | .007- | 92.5 | 22.246 | 20.299 | 1.186 | 457 |
| 200 | 06 | 282 | 35.572 | 32.414 | 34.731- | 20.507 | 7.688 | 25.102 | .164 | 70.0 | 25.690 | 19.765 | 1.193 | 458 |
| 200 | 09 | 294 | 35.445 | 35.891 | 32.422- | 22.208 | 14.322 | 28.195 | .010 | 88.5 | 28.194 | 22.209 | 1.195 | 454 |

## Watson Lake, Y.T., Canada

| P | J | $\bar{\Theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 277 | 8.742 | 19.050 | 8.680- | 13.649 | 1.038 | 13.290 | .059 | 33.0 | 13.903 | 13.024 | 1.119 | 451 |
| 700 | 03 | 241 | 7.504 | 16.210 | 6.537- | 12.064 | 3.684- | 10.828 | .146- | 153.5 | 12.456 | 10.374 | 1.125 | 460 |
| 700 | 06 | 275 | 4.402 | 14.004 | 4.382- | 9.862 | 0.420 | 9.943 | .142- | 133.5 | 10.587 | 09.167 | 1.135 | 458 |
| 700 | 09 | 246 | 9.822 | 16.370 | 9.004- | 11.737 | 3.963- | 11.412 | .049- | 149.5 | 11.901 | 11.241 | 1.141 | 455 |
| 500 | 12 | 285 | 16.565 | 26.930 | 16.028- | 16.687 | 4.183 | 21.137 | .023- | 93.0 | 21.147 | 16.675 | 1.173 | 452 |
| 500 | 03 | 242 | 11.530 | 24.070 | 10.188- | 15.524 | 5.399- | 18.394 | .148- | 110.5 | 18.819 | 15.006 | 1.118 | 460 |
| 500 | 06 | 255 | 6.010 | 19.410 | 5.812- | 13.368 | 1.529- | 14.073 | .181- | 127.0 | 14.964 | 12.363 | 1.127 | 460 |
| 500 | 09 | 251 | 15.139 | 22.117 | 14.283- | 13.864 | 5.019- | 17.231 | .026- | 93.5 | 17.242 | 13.850 | 1.144 | 455 |
| 300 | 12 | 288 | 25.272 | 35.930 | 24.063- | 20.637 | 7.723 | 29.413 | .094 | 82.5 | 29.537 | 20.459 | 1.195 | 451 |
| 300 | 03 | 237 | 16.896 | 36.079 | 14.117- | 22.783 | 9.282- | 27.976 | .201- | 112.0 | 28.896 | 21.604 | 1.127 | 460 |
| 300 | 06 | 246 | 10.837 | 33.403 | 9.895- | 22.650 | 4.420- | 24.551 | .232- | 125.5 | 26.357 | 20.521 | 1.116 | 460 |
| 300 | 09 | 247 | 24.419 | 36.162 | 22.488- | 23.991 | 9.517- | 27.057 | .073- | 105.5 | 27.302 | 23.712 | 1.156 | 455 |
| 200 | 12 | 291 | 25.569 | 31.140 | 23.910- | 17.477 | 9.057 | 25.774 | .173 | 78.5 | 26.087 | 17.007 | 1.199 | 449 |
| 200 | 03 | 239 | 17.292 | 29.225 | 14.857- | 19.113 | 8.850- | 22.109 | .158- | 113.5 | 22.761 | 18.331 | 1.130 | 460 |
| 200 | 06 | 245 | 12.323 | 29.809 | 11.150- | 19.917 | 5.248- | 22.179 | .125- | 114.5 | 22.743 | 19.270 | 1.118 | 460 |
| 200 | 09 | 250 | 26.425 | 32.003 | 24.883- | 19.408 | 8.895- | 25.447 | .032- | 93.5 | 25.465 | 19.384 | 1.191 | 454 |

## 3. United States

### Albuquerque, N.Mex., U.S.A.

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 281 | 16.311 | 18.592 | 15.983- | 11.072 | 3.252 | 14.936 | .032- | 93.0 | 14.946 | 11.059 | 1.166 | 482 |
| 700 | 03 | 275 | 12.128 | 15.567 | 12.076- | 9.250 | 1.124 | 12.521 | .140- | 102.5 | 12.662 | 09.057 | 1.231 | 460 |
| 700 | 06 | 270 | 5.633 | 10.827 | 5.633- | 7.329 | 0.030 | 7.970 | .082 | 67.5 | 8.093 | 07.193 | 1.232 | 458 |
| 700 | 09 | 284 | 9.789 | 15.193 | 9.477- | 10.186 | 2.448 | 11.273 | .039- | 100.5 | 11.310 | 10.145 | 1.219 | 516 |
| 500 | 12 | 271 | 33.063 | 32.539 | 33.057- | 21.562 | 0.682 | 24.370 | .262 | 57.5 | 26.105 | 19.426 | 1.228 | 483 |
| 500 | 03 | 266 | 27.072 | 27.917 | 26.993- | 18.475 | 2.070- | 20.930 | .111 | 69.0 | 21.320 | 18.023 | 1.298 | 460 |
| 500 | 06 | 250 | 9.983 | 17.352 | 9.379- | 12.740 | 3.418- | 11.781 | .310 | 38.0 | 14.096 | 10.120 | 1.287 | 460 |
| 500 | 09 | 275 | 18.490 | 26.330 | 18.430- | 18.848 | 1.488 | 18.386 | .176 | 41.0 | 20.212 | 16.875 | 1.330 | 516 |
| 300 | 12 | 264 | 52.348 | 50.442 | 52.090- | 33.028 | 5.197- | 38.125 | .442 | 54.0 | 43.110 | 26.189 | 1.270 | 483 |
| 300 | 03 | 263 | 41.183 | 41.784 | 40.915- | 28.406 | 4.692- | 30.643 | .185 | 56.0 | 32.362 | 26.431 | 1.321 | 460 |
| 300 | 06 | 256 | 19.258 | 24.953 | 18.663- | 18.978 | 4.750- | 16.202 | .236 | 28.0 | 19.972 | 14.960 | 1.265 | 459 |
| 300 | 09 | 272 | 30.517 | 40.520 | 30.492- | 28.714 | 1.238 | 28.590 | .282 | 44.5 | 32.451 | 24.265 | 1.342 | 515 |
| 200 | 12 | 264 | 64.648 | 48.957 | 64.241- | 32.954 | 7.243- | 36.206 | .350 | 52.5 | 40.395 | 27.661 | 1.294 | 484 |
| 200 | 03 | 263 | 50.991 | 41.878 | 50.623- | 29.590 | 6.121- | 29.635 | .217 | 45.0 | 32.672 | 26.198 | 1.376 | 459 |
| 200 | 06 | 257 | 26.369 | 31.358 | 25.670- | 24.464 | 6.028- | 19.617 | .238 | 23.5 | 25.457 | 18.310 | 1.294 | 460 |
| 200 | 09 | 272 | 43.624 | 42.174 | 43.592- | 30.595 | 1.665 | 29.028 | .325 | 40.5 | 34.388 | 24.417 | 1.348 | 518 |

### Big Spring, Texas, U.S.A.

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 259 | 11.140 | 21.065 | 10.938- | 15.056 | 2.112- | 14.734 | .134 | 40.5 | 15.876 | 13.847 | 1.159 | 473 |
| 850 | 03 | 232 | 7.758 | 19.894 | 6.113- | 13.459 | 4.777- | 14.650 | .013 | 85.5 | 14.657 | 13.452 | 1.122 | 447 |
| 850 | 06 | 198 | 11.450 | 12.006 | 3.527- | 7.657 | 10.893- | 9.247 | .238 | 64.0 | 9.678 | 07.104 | 1.266 | 435 |
| 850 | 09 | 226 | 6.097 | 16.992 | 4.420- | 11.410 | 4.199- | 12.591 | .228 | 56.5 | 13.422 | 10.420 | 1.156 | 500 |
| 700 | 12 | 260 | 22.208 | 19.921 | 21.855- | 13.169 | 3.942- | 14.947 | .124 | 68.0 | 15.278 | 12.783 | 1.243 | 483 |
| 700 | 03 | 255 | 15.840 | 18.835 | 15.319- | 13.545 | 4.030- | 13.088 | .004- | 176.5 | 13.547 | 13.086 | 1.280 | 460 |
| 700 | 06 | 154 | 3.572 | 12.331 | 1.557 | 8.510 | 3.215- | 8.924 | .101 | 57.5 | 9.194 | 08.218 | 1.117 | 460 |
| 700 | 09 | 264 | 7.773 | 17.780 | 7.732- | 13.157 | 0.793- | 11.960 | .221 | 33.5 | 14.001 | 10.959 | 1.205 | 517 |
| 500 | 12 | 259 | 37.105 | 32.527 | 36.439- | 20.760 | 6.998- | 25.040 | .305 | 61.0 | 26.750 | 18.505 | 1.241 | 483 |
| 500 | 03 | 260 | 30.684 | 27.247 | 30.182- | 19.410 | 5.530- | 19.122 | .129 | 41.5 | 20.486 | 17.965 | 1.388 | 460 |
| 500 | 06 | 253 | 2.316 | 14.831 | 2.212- | 11.120 | 0.685- | 9.814 | .086 | 17.5 | 11.251 | 09.664 | 1.184 | 459 |
| 500 | 09 | 270 | 16.256 | 26.137 | 16.256- | 19.022 | 0.102 | 17.926 | .249 | 38.5 | 20.712 | 15.943 | 1.314 | 516 |
| 300 | 12 | 259 | 62.364 | 47.040 | 61.132- | 31.130 | 12.334- | 35.266 | .360 | 54.5 | 39.058 | 26.216 | 1.269 | 482 |
| 300 | 03 | 262 | 48.970 | 38.757 | 48.503- | 27.646 | 6.747- | 27.163 | .207 | 42.5 | 30.127 | 24.383 | 1.421 | 459 |
| 300 | 06 | 282 | 6.209 | 23.478 | 6.077- | 18.367 | 1.270 | 14.625 | .157 | 17.0 | 18.720 | 14.171 | 1.222 | 459 |
| 300 | 09 | 272 | 34.661 | 38.490 | 34.643- | 29.292 | 1.096 | 24.968 | .342 | 32.5 | 31.894 | 21.544 | 1.414 | 516 |
| 200 | 12 | 260 | 75.203 | 47.870 | 73.995- | 30.323 | 13.429- | 37.041 | .151 | 71.5 | 37.802 | 29.369 | 1.283 | 483 |
| 200 | 03 | 261 | 63.095 | 40.668 | 62.316- | 29.237 | 9.885- | 28.268 | .094 | 35.0 | 30.170 | 27.270 | 1.413 | 460 |
| 200 | 06 | 277 | 10.163 | 30.477 | 10.080- | 24.666 | 1.302 | 17.900 | .161 | 13.0 | 25.000 | 17.430 | 1.251 | 480 |
| 200 | 09 | 271 | 46.545 | 41.538 | 46.541- | 31.405 | 0.613 | 27.187 | .317 | 33.0 | 34.069 | 23.763 | 1.433 | 516 |

### Billings, Mont., U.S.A.

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 259 | 16.818 | 19.578 | 16.499- | 14.235 | 3.259- | 13.442 | .188 | 36.5 | 15.144 | 12.409 | 1.284 | 442 |
| 850 | 03 | 272 | 7.802 | 16.210 | 7.797- | 12.498 | 0.250 | 10.323 | .089 | 12.5 | 12.599 | 10.199 | 1.211 | 431 |
| 850 | 06 | 268 | 4.306 | 12.676 | 4.304- | 10.234 | 0.133- | 7.479 | .195 | 16.0 | 10.438 | 07.191 | 1.197 | 448 |
| 850 | 09 | 263 | 11.558 | 18.143 | 11.460- | 13.508 | 1.503- | 12.112 | .082 | 18.5 | 13.674 | 11.924 | 1.282 | 494 |
| 700 | 12 | 288 | 22.641 | 18.344 | 21.482- | 14.201 | 7.151 | 11.613 | .098- | 167.0 | 14.332 | 11.451 | 1.389 | 483 |
| 700 | 03 | 284 | 11.544 | 16.676 | 11.204- | 12.601 | 2.782 | 10.922 | .332- | 146.5 | 13.745 | 09.441 | 1.222 | 460 |
| 700 | 06 | 262 | 9.545 | 13.317 | 9.462- | 9.707 | 1.258- | 9.117 | .194- | 144.0 | 10.333 | 08.401 | 1.212 | 460 |
| 700 | 09 | 285 | 16.669 | 16.580 | 16.098- | 11.708 | 4.323 | 11.740 | .245- | 134.5 | 13.084 | 10.184 | 1.288 | 515 |
| 500 | 12 | 286 | 32.741 | 29.351 | 31.478- | 19.436 | 9.003 | 21.995 | .023 | 84.5 | 22.017 | 19.411 | 1.234 | 483 |
| 500 | 03 | 281 | 20.812 | 27.692 | 20.450- | 19.520 | 3.863 | 19.643 | .089- | 133.0 | 20.439 | 18.685 | 1.266 | 459 |
| 500 | 06 | 265 | 23.428 | 19.621 | 23.328- | 13.480 | 2.159- | 14.257 | .087 | 61.5 | 14.575 | 13.135 | 1.278 | 460 |
| 500 | 09 | 286 | 27.753 | 28.502 | 26.646- | 18.343 | 7.760 | 21.815 | .086- | 103.0 | 21.999 | 18.122 | 1.254 | 515 |
| 300 | 12 | 283 | 46.470 | 45.759 | 45.190- | 30.238 | 10.829 | 34.344 | .065 | 76.5 | 34.585 | 29.962 | 1.169 | 482 |
| 300 | 03 | 277 | 29.311 | 40.748 | 29.122- | 27.103 | 3.324 | 30.427 | .001 | 89.5 | 30.427 | 27.103 | 1.177 | 461 |
| 300 | 06 | 260 | 37.364 | 31.373 | 36.813- | 20.277 | 6.394- | 23.940 | .138 | 70.0 | 24.439 | 19.672 | 1.224 | 460 |
| 300 | 09 | 284 | 39.693 | 43.802 | 38.547- | 29.282 | 9.470 | 32.576 | .016- | 94.5 | 32.594 | 29.262 | 1.219 | 512 |
| 200 | 12 | 283 | 46.393 | 39.377 | 45.150- | 26.603 | 10.665 | 29.030 | .100 | 65.5 | 29.636 | 25.927 | 1.273 | 483 |
| 200 | 03 | 274 | 30.359 | 34.892 | 30.267- | 22.432 | 2.362 | 26.726 | .017- | 93.0 | 26.736 | 22.420 | 1.198 | 461 |
| 200 | 06 | 258 | 43.277 | 34.380 | 42.388- | 21.771 | 8.727- | 26.608 | .058 | 82.0 | 26.699 | 21.660 | 1.201 | 460 |
| 200 | 09 | 282 | 40.424 | 44.508 | 39.574- | 28.930 | 8.250 | 33.823 | .097 | 74.0 | 34.223 | 28.455 | 1.197 | 514 |

### Bismarck, N.Dak., U.S.A.

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 296 | 11.361 | 18.897 | 10.186- | 12.229 | 5.031 | 14.408 | .304- | 121.0 | 15.480 | 10.840 | 1.180 | 465 |
| 850 | 03 | 308 | 4.958 | 20.476 | 3.890- | 12.838 | 3.074 | 15.951 | .291- | 116.5 | 16.862 | 11.616 | 1.151 | 453 |
| 850 | 06 | 277 | 5.171 | 17.664 | 5.131- | 11.575 | 0.642 | 13.343 | .310- | 122.5 | 14.449 | 10.161 | 1.157 | 448 |
| 850 | 09 | 298 | 10.097 | 20.599 | 8.900- | 11.707 | 4.770 | 16.949 | .359- | 112.0 | 17.769 | 10.420 | 1.162 | 497 |
| 700 | 12 | 294 | 21.253 | 21.222 | 19.366- | 14.342 | 8.756 | 15.643 | .269- | 126.0 | 16.994 | 12.712 | 1.232 | 483 |
| 700 | 03 | 297 | 11.652 | 21.782 | 10.393- | 14.812 | 5.268 | 15.970 | .198- | 124.5 | 16.956 | 13.673 | 1.185 | 460 |
| 700 | 06 | 278 | 13.749 | 17.457 | 13.615- | 11.855 | 1.913 | 12.814 | .187- | 123.5 | 13.538 | 11.022 | 1.250 | 459 |
| 700 | 09 | 294 | 17.703 | 21.801 | 16.136- | 12.651 | 7.282 | 17.755 | .286- | 110.0 | 18.398 | 11.696 | 1.207 | 516 |
| 500 | 12 | 287 | 32.265 | 30.400 | 30.817- | 19.562 | 9.560 | 23.270 | .013- | 92.0 | 23.275 | 19.556 | 1.239 | 483 |
| 500 | 03 | 286 | 20.522 | 28.258 | 19.720- | 19.516 | 5.679 | 20.437 | .165- | 127.0 | 21.630 | 18.185 | 1.237 | 460 |
| 500 | 06 | 273 | 24.916 | 21.998 | 24.890- | 14.228 | 1.148 | 16.777 | .007 | 88.5 | 16.778 | 14.226 | 1.273 | 458 |
| 500 | 09 | 288 | 27.269 | 29.432 | 25.876- | 17.662 | 8.605 | 23.543 | .125- | 101.5 | 23.770 | 17.355 | 1.230 | 515 |
| 300 | 12 | 282 | 46.360 | 44.735 | 45.371- | 29.623 | 9.524 | 33.521 | .044 | 80.0 | 33.634 | 29.495 | 1.233 | 483 |
| 300 | 03 | 275 | 30.055 | 41.113 | 29.946- | 27.263 | 2.550 | 30.773 | .022- | 95.0 | 30.800 | 27.232 | 1.201 | 460 |
| 300 | 06 | 269 | 38.044 | 32.650 | 38.033- | 21.406 | 0.935- | 24.654 | .054 | 79.5 | 24.761 | 21.282 | 1.271 | 461 |
| 300 | 09 | 283 | 37.053 | 45.562 | 36.115- | 28.763 | 8.284 | 35.335 | .056 | 82.5 | 35.445 | 28.627 | 1.210 | 516 |
| 200 | 12 | 279 | 47.229 | 37.057 | 46.613- | 25.044 | 7.603 | 27.313 | .122 | 62.5 | 28.099 | 24.158 | 1.314 | 484 |
| 200 | 03 | 275 | 31.320 | 35.094 | 31.222- | 23.620 | 2.476 | 25.955 | .045 | 77.0 | 26.080 | 23.482 | 1.221 | 460 |
| 200 | 06 | 268 | 44.914 | 33.125 | 44.888- | 20.156 | 1.522- | 26.288 | .062 | 83.5 | 26.359 | 20.063 | 1.228 | 460 |
| 200 | 09 | 282 | 40.532 | 42.263 | 39.614- | 25.834 | 8.579 | 33.449 | .033 | 86.5 | 33.476 | 25.799 | 1.222 | 516 |

## Boise, Idaho, U.S.A.

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 210 | 2.990 | 16.132 | 1.493- | 10.544 | 2.590- | 12.209 | .655- | 128.5 | 14.719 | 06.601 | 1.190 | 431 |
| 850 | 03 | 297 | 3.115 | 15.265 | 2.771- | 9.716 | 1.421 | 11.774 | .709- | 127.5 | 14.164 | 05.693 | 1.210 | 437 |
| 850 | 06 | 310 | 2.537 | 10.878 | 1.955- | 6.789 | 1.616 | 8.500 | .715- | 126.0 | 10.123 | 03.984 | 1.166 | 445 |
| 850 | 09 | 235 | 1.523 | 13.357 | 1.250- | 8.562 | 0.871- | 10.252 | .608- | 126.5 | 12.039 | 05.786 | 1.166 | 493 |
| 700 | 12 | 278 | 17.051 | 20.029 | 16.894- | 14.090 | 2.312 | 14.234 | .078 | 48.5 | 14.714 | 13.588 | 1.219 | 482 |
| 700 | 03 | 278 | 10.264 | 18.067 | 10.157- | 11.972 | 1.480 | 13.530 | .087- | 108.0 | 13.697 | 11.781 | 1.173 | 460 |
| 700 | 06 | 258 | 8.920 | 13.549 | 8.730- | 9.129 | 1.828- | 10.012 | .123- | 116.5 | 10.291 | 08.813 | 1.192 | 460 |
| 700 | 09 | 276 | 11.874 | 17.917 | 11.815- | 12.553 | 1.186 | 12.784 | .033 | 59.5 | 12.907 | 12.426 | 1.203 | 516 |
| 500 | 12 | 282 | 29.243 | 34.378 | 28.637- | 23.162 | 5.926 | 25.402 | .197 | 57.5 | 26.817 | 21.508 | 1.191 | 483 |
| 500 | 03 | 273 | 19.183 | 31.187 | 19.163- | 20.530 | 0.897 | 23.477 | .060 | 78.0 | 23.610 | 20.377 | 1.216 | 460 |
| 500 | 06 | 251 | 21.190 | 22.661 | 20.058- | 14.019 | 6.835- | 17.804 | .112 | 77.5 | 17.977 | 13.797 | 1.220 | 460 |
| 500 | 09 | 275 | 22.508 | 30.952 | 22.438- | 20.818 | 1.769 | 22.905 | .173 | 59.5 | 23.948 | 19.610 | 1.215 | 516 |
| 300 | 12 | 282 | 41.596 | 47.492 | 40.624- | 31.634 | 8.936 | 35.423 | .239 | 57.5 | 37.743 | 28.826 | 1.164 | 483 |
| 300 | 03 | 272 | 28.362 | 46.757 | 28.337- | 28.972 | 1.204 | 36.698 | .046 | 84.5 | 36.763 | 28.889 | 1.207 | 460 |
| 300 | 06 | 253 | 33.008 | 34.937 | 31.642- | 21.980 | 9.397- | 27.156 | .224 | 66.5 | 28.198 | 20.626 | 1.246 | 458 |
| 300 | 09 | 279 | 33.097 | 47.416 | 32.720- | 31.654 | 4.981 | 35.303 | .082 | 71.5 | 35.735 | 31.166 | 1.198 | 516 |
| 200 | 12 | 282 | 43.192 | 39.875 | 42.297- | 27.013 | 8.751 | 29.330 | .218 | 55.5 | 31.306 | 24.695 | 1.229 | 483 |
| 200 | 03 | 275 | 29.977 | 40.736 | 29.856- | 26.945 | 2.690 | 30.551 | .125 | 67.5 | 31.241 | 26.142 | 1.208 | 460 |
| 200 | 06 | 255 | 38.610 | 36.393 | 37.337- | 22.797 | 9.829- | 28.368 | .278 | 64.0 | 29.864 | 20.798 | 1.215 | 460 |
| 200 | 09 | 277 | 38.113 | 44.177 | 37.824- | 30.084 | 4.682 | 32.350 | .170 | 56.5 | 34.008 | 28.196 | 1.216 | 516 |

## Brownsville, Texas, U.S.A.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 192 | 10.607 | 17.111 | 2.202- | 7.855 | 10.376- | 15.202 | .048- | 92.0 | 15.208 | 07.842 | 1.200 | 459 |
| 850 | 03 | 184 | 10.864 | 16.008 | 0.817- | 8.570 | 10.834- | 13.521 | .013- | 91.0 | 13.522 | 08.569 | 1.209 | 449 |
| 850 | 06 | 163 | 12.709 | 11.582 | 3.686 | 4.844 | 12.163- | 10.520 | .199 | 83.5 | 10.576 | 04.721 | 1.363 | 435 |
| 850 | 09 | 139 | 3.417 | 15.738 | 2.224 | 7.453 | 2.593- | 13.862 | .015- | 90.5 | 13.863 | 07.452 | 1.168 | 504 |
| 700 | 12 | 243 | 11.655 | 14.817 | 10.423- | 9.926 | 5.213- | 11.001 | .015- | 94.0 | 11.007 | 09.920 | 1.265 | 483 |
| 700 | 03 | 238 | 8.416 | 14.429 | 7.157- | 10.481 | 4.429- | 9.917 | .211 | 37.5 | 11.264 | 09.018 | 1.204 | 460 |
| 700 | 06 | 128 | 7.631 | 11.203 | 6.030 | 7.166 | 4.677- | 8.611 | .003- | 90.5 | 8.611 | 07.166 | 1.184 | 460 |
| 700 | 09 | 306 | 1.894 | 14.531 | 1.537- | 10.681 | 1.105 | 9.853 | .054 | 17.0 | 10.763 | 09.764 | 1.162 | 516 |
| 500 | 12 | 253 | 26.214 | 21.967 | 25.057- | 15.691 | 7.702- | 15.373 | .171 | 41.5 | 16.819 | 14.129 | 1.376 | 483 |
| 500 | 03 | 264 | 21.482 | 21.098 | 21.351- | 16.456 | 2.367- | 13.204 | .335 | 28.5 | 17.607 | 11.625 | 1.365 | 459 |
| 500 | 06 | 096 | 6.004 | 12.759 | 5.970 | 9.360 | 0.646- | 8.671 | .129- | 150.5 | 9.676 | 08.317 | 1.154 | 459 |
| 500 | 09 | 272 | 10.328 | 19.521 | 10.320- | 14.964 | 0.391 | 12.535 | .164 | 21.5 | 15.361 | 12.045 | 1.277 | 516 |
| 300 | 12 | 254 | 45.054 | 32.623 | 43.377- | 23.147 | 12.177- | 22.989 | .257 | 44.5 | 25.870 | 19.875 | 1.408 | 484 |
| 300 | 03 | 265 | 43.390 | 30.758 | 43.235- | 22.972 | 3.660- | 20.454 | .233 | 31.5 | 24.404 | 18.723 | 1.405 | 461 |
| 300 | 06 | 054 | 4.882 | 21.058 | 3.961 | 16.664 | 2.854 | 12.875 | .052 | 5.5 | 16.697 | 12.832 | 1.145 | 459 |
| 300 | 09 | 269 | 25.919 | 28.757 | 25.916- | 22.319 | 0.402- | 18.132 | .201 | 22.0 | 23.046 | 17.199 | 1.341 | 516 |
| 200 | 12 | 256 | 57.586 | 36.505 | 55.854- | 26.134 | 14.017- | 25.488 | .179 | 41.0 | 28.059 | 23.352 | 1.428 | 483 |
| 200 | 03 | 265 | 58.529 | 36.960 | 58.272- | 27.211 | 5.476- | 25.012 | .148 | 30.0 | 28.271 | 23.807 | 1.475 | 459 |
| 200 | 06 | 033 | 4.319 | 27.378 | 2.355 | 21.907 | 3.621 | 16.422 | .081 | 8.0 | 21.998 | 16.300 | 1.149 | 479 |
| 200 | 09 | 268 | 33.486 | 34.740 | 33.462- | 26.650 | 1.280 | 22.286 | .367 | 32.0 | 29.097 | 18.981 | 1.392 | 514 |

## Burrwood, La., U.S.A.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 243 | 10.171 | 18.036 | 9.047- | 10.887 | 4.648- | 14.379 | .074- | 97.5 | 14.432 | 10.816 | 1.186 | 451 |
| 850 | 03 | 242 | 7.887 | 18.110 | 6.983- | 11.487 | 3.664- | 14.001 | .041- | 96.0 | 14.026 | 11.457 | 1.180 | 434 |
| 850 | 06 | 200 | 2.712 | 11.837 | 0.912- | 8.821 | 2.554- | 7.892 | .140 | 26.0 | 9.086 | 07.585 | 1.194 | 430 |
| 850 | 09 | 275 | 1.523 | 16.103 | 1.517- | 11.436 | 0.138 | 11.337 | .051 | 40.0 | 11.681 | 11.085 | 1.165 | 501 |
| 700 | 12 | 256 | 19.689 | 18.998 | 19.126- | 13.137 | 4.674- | 13.724 | .051- | 115.0 | 13.881 | 12.971 | 1.298 | 482 |
| 700 | 03 | 264 | 15.123 | 19.802 | 15.049- | 13.927 | 1.495- | 14.077 | .031 | 54.5 | 14.233 | 13.768 | 1.273 | 461 |
| 700 | 06 | 204 | 0.516 | 12.287 | 0.208- | 8.908 | 0.472- | 8.463 | .106 | 32.0 | 9.186 | 08.160 | 1.144 | 460 |
| 700 | 09 | 274 | 6.331 | 18.281 | 6.315- | 14.136 | 0.457 | 11.592 | .109 | 14.5 | 14.297 | 11.392 | 1.257 | 516 |
| 500 | 12 | 261 | 35.224 | 24.977 | 34.741- | 17.191 | 5.818- | 18.120 | .020- | 100.5 | 18.154 | 17.155 | 1.347 | 480 |
| 500 | 03 | 267 | 28.383 | 25.775 | 28.350- | 19.696 | 1.350- | 16.626 | .166 | 22.0 | 20.254 | 15.942 | 1.432 | 460 |
| 500 | 06 | 053 | 1.190 | 13.998 | 0.950 | 10.608 | 0.717 | 9.133 | .039 | 7.5 | 10.632 | 09.105 | 1.128 | 442 |
| 500 | 10 | 266 | 16.335 | 23.561 | 16.303- | 18.230 | 1.005- | 14.927 | .225 | 24.0 | 18.971 | 13.974 | 1.371 | 534 |
| 300 | 12 | 263 | 58.288 | 33.213 | 57.805- | 23.493 | 7.482- | 23.477 | .085 | 45.0 | 24.464 | 22.464 | 1.404 | 482 |
| 300 | 05 | 270 | 47.752 | 35.517 | 47.752- | 27.750 | 0.186- | 22.169 | .104 | 12.5 | 28.003 | 21.849 | 1.503 | 458 |
| 300 | 06 | 357 | 3.239 | 21.584 | 0.168- | 15.986 | 3.235 | 14.503 | .022 | 6.5 | 16.005 | 14.482 | 1.177 | 459 |
| 300 | 09 | 264 | 34.768 | 33.682 | 34.594- | 25.836 | 3.475- | 21.548 | .278 | 28.5 | 27.411 | 19.506 | 1.357 | 516 |
| 200 | 12 | 262 | 70.423 | 37.884 | 69.752- | 26.397 | 9.701- | 27.174 | .106 | 52.5 | 28.223 | 25.273 | 1.386 | 484 |
| 200 | 03 | 269 | 62.767 | 38.515 | 62.763- | 29.353 | 0.717- | 24.936 | .181 | 24.0 | 30.340 | 23.725 | 1.509 | 459 |
| 200 | 06 | 333 | 4.998 | 28.603 | 2.270- | 21.550 | 4.453 | 18.807 | .029- | 174.0 | 21.580 | 18.772 | 1.219 | 479 |
| 200 | 09 | 265 | 44.469 | 36.239 | 44.297- | 27.988 | 3.901- | 23.021 | .201 | 23.0 | 28.949 | 21.800 | 1.382 | 515 |

## Caribou, Maine, U.S.A.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 280 | 13.134 | 23.428 | 12.947- | 15.514 | 2.210 | 17.555 | .048 | 79.0 | 17.627 | 15.432 | 1.153 | 463 |
| 850 | 03 | 286 | 7.297 | 21.540 | 7.005- | 14.423 | 2.043 | 15.998 | .059 | 75.0 | 16.113 | 14.294 | 1.140 | 455 |
| 850 | 06 | 273 | 10.968 | 15.937 | 10.955- | 10.801 | 0.538 | 11.719 | .019 | 83.0 | 11.732 | 10.787 | 1.154 | 455 |
| 850 | 09 | 272 | 11.461 | 19.758 | 11.456- | 12.734 | 0.334 | 15.108 | .013 | 87.5 | 15.112 | 12.730 | 1.131 | 493 |
| 700 | 12 | 267 | 23.366 | 27.054 | 23.330- | 19.036 | 1.303- | 19.224 | .073 | 49.0 | 19.829 | 18.405 | 1.211 | 483 |
| 700 | 03 | 276 | 14.220 | 25.892 | 14.145- | 18.019 | 1.455 | 18.593 | .004- | 94.5 | 18.596 | 18.016 | 1.157 | 460 |
| 700 | 06 | 276 | 17.742 | 19.005 | 17.649- | 13.218 | 1.818 | 13.656 | .011 | 80.5 | 13.669 | 13.205 | 1.205 | 460 |
| 700 | 09 | 267 | 19.680 | 24.189 | 19.659- | 15.208 | 0.907- | 18.810 | .056 | 82.5 | 18.866 | 15.138 | 1.160 | 514 |
| 500 | 12 | 262 | 38.088 | 38.296 | 37.752- | 28.618 | 5.043- | 25.447 | .025 | 6.0 | 28.653 | 25.408 | 1.284 | 480 |
| 500 | 03 | 268 | 24.220 | 34.850 | 24.210- | 25.141 | 0.718- | 24.135 | .044 | 23.5 | 25.376 | 23.888 | 1.197 | 460 |
| 500 | 06 | 272 | 27.155 | 24.577 | 27.132- | 16.826 | 1.117 | 17.913 | .146 | 56.5 | 18.707 | 15.939 | 1.226 | 460 |
| 500 | 09 | 262 | 31.355 | 33.866 | 31.017- | 20.864 | 4.596- | 26.676 | .100 | 79.0 | 26.878 | 20.603 | 1.231 | 516 |
| 300 | 12 | 260 | 58.664 | 55.069 | 57.850- | 38.917 | 9.739- | 38.962 | .023- | 133.5 | 39.394 | 38.480 | 1.294 | 484 |
| 300 | 03 | 266 | 38.348 | 50.474 | 38.236- | 36.383 | 2.935- | 34.984 | .004- | 177.0 | 36.387 | 34.979 | 1.239 | 460 |
| 300 | 06 | 267 | 39.726 | 38.809 | 39.669- | 25.440 | 2.143- | 29.308 | .168 | 65.0 | 30.292 | 24.260 | 1.229 | 456 |
| 300 | 09 | 260 | 47.726 | 48.162 | 46.964- | 31.915 | 8.492- | 36.070 | .063 | 76.5 | 36.312 | 31.639 | 1.271 | 515 |
| 200 | 12 | 259 | 62.501 | 46.429 | 61.422- | 33.234 | 11.566- | 32.421 | .008 | 9.5 | 33.259 | 32.395 | 1.344 | 483 |
| 200 | 03 | 265 | 38.611 | 41.049 | 38.436- | 28.368 | 3.682- | 29.669 | .028 | 74.0 | 29.783 | 28.248 | 1.286 | 460 |
| 200 | 06 | 269 | 43.944 | 40.509 | 43.931- | 25.950 | 1.054- | 31.105 | .132 | 72.0 | 31.660 | 25.269 | 1.244 | 459 |
| 200 | 09 | 256 | 53.378 | 45.033 | 51.692- | 27.542 | 13.309- | 35.629 | .202 | 71.0 | 36.571 | 26.278 | 1.267 | 517 |

## Charleston, S.C., U.S.A.

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 256 | 14.468 | 18.572 | 14.063- | 13.230 | 3.400- | 13.035 | .039 | 34.5 | 13.407 | 12.853 | 1.234 | 452 |
| 850 | 03 | 265 | 10.937 | 17.964 | 10.893- | 13.389 | 0.983- | 11.977 | .158 | 27.5 | 13.875 | 11.411 | 1.219 | 439 |
| 850 | 06 | 264 | 4.647 | 13.028 | 4.618- | 10.318 | 0.512- | 7.953 | .208 | 19.0 | 10.603 | 07.569 | 1.195 | 436 |
| 850 | 09 | 258 | 4.415 | 17.741 | 4.320- | 14.110 | 0.910- | 10.753 | .175 | 16.5 | 14.383 | 10.385 | 1.211 | 500 |
| 700 | 12 | 263 | 25.249 | 21.066 | 25.041- | 14.750 | 3.235- | 15.040 | .074 | 52.5 | 15.458 | 14.312 | 1.338 | 482 |
| 700 | 03 | 270 | 19.652 | 22.003 | 19.651- | 16.801 | 0.147 | 14.208 | .153 | 21.0 | 17.219 | 13.698 | 1.337 | 460 |
| 700 | 06 | 273 | 6.590 | 13.571 | 6.581- | 10.130 | 0.337 | 9.030 | .101 | 20.5 | 10.300 | 08.835 | 1.192 | 460 |
| 700 | 09 | 260 | 11.260 | 20.269 | 11.072- | 16.031 | 2.050- | 12.403 | .171 | 16.5 | 16.348 | 11.982 | 1.271 | 516 |
| 500 | 12 | 267 | 42.160 | 28.778 | 42.117- | 19.944 | 1.898- | 20.747 | .143 | 52.5 | 21.811 | 18.774 | 1.440 | 480 |
| 500 | 03 | 270 | 31.525 | 29.382 | 31.524- | 22.437 | 0.175 | 18.971 | .252 | 28.0 | 23.684 | 17.390 | 1.440 | 460 |
| 500 | 06 | 272 | 7.648 | 15.955 | 7.644- | 11.362 | 0.230 | 11.201 | .095 | 40.5 | 11.812 | 10.725 | 1.214 | 460 |
| 500 | 09 | 260 | 22.314 | 26.908 | 21.953- | 20.790 | 3.995- | 17.082 | .134 | 17.0 | 21.139 | 16.648 | 1.360 | 516 |
| 300 | 12 | 268 | 63.255 | 38.540 | 63.210+ | 26.616 | 2.374- | 27.874 | .223 | 51.0 | 30.196 | 23.949 | 1.415 | 482 |
| 300 | 03 | 272 | 45.216 | 41.606 | 45.193 | 31.937 | 1.424 | 26.665 | .079 | 12.0 | 32.160 | 26.395 | 1.417 | 459 |
| 300 | 06 | 276 | 8.118 | 23.297 | 8.077- | 16.900 | 0.826 | 16.037 | .086 | 29.5 | 17.289 | 15.617 | 1.211 | 459 |
| 300 | 09 | 260 | 39.554 | 38.477 | 38.977- | 28.563 | 6.733- | 25.782 | .223 | 32.5 | 30.352 | 23.650 | 1.358 | 516 |
| 200 | 12 | 269 | 70.390 | 36.784 | 70.373- | 25.374 | 1.511- | 26.631 | .181 | 52.5 | 28.348 | 23.440 | 1.389 | 483 |
| 200 | 03 | 273 | 55.501 | 42.761 | 55.437- | 33.887 | 2.680 | 26.080 | .234 | 21.0 | 35.031 | 24.522 | 1.458 | 459 |
| 200 | 06 | 293 | 8.543 | 29.546 | 7.842- | 22.044 | 3.390 | 19.672 | .063 | 14.5 | 22.204 | 19.491 | 1.196 | 480 |
| 200 | 09 | 265 | 47.424 | 41.042 | 47.215- | 30.096 | 4.450- | 27.905 | .243 | 36.5 | 32.501 | 25.063 | 1.318 | 515 |

## Columbia, Mo., U.S.A.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 267 | 15.315 | 20.703 | 15.296- | 12.944 | 0.770- | 16.157 | .222 | 67.5 | 16.741 | 12.179 | 1.205 | 462 |
| 850 | 03 | 269 | 9.210 | 20.649 | 9.209- | 13.523 | 0.108- | 15.603 | .119 | 70.0 | 15.895 | 13.179 | 1.165 | 454 |
| 850 | 06 | 253 | 7.786 | 16.425 | 7.464- | 11.741 | 2.216- | 11.487 | .428 | 43.5 | 13.886 | 08.774 | 1.367 | 456 |
| 850 | 09 | 276 | 8.896 | 18.494 | 8.841- | 12.470 | 0.983 | 13.658 | .111 | 64.5 | 13.984 | 12.103 | 1.175 | 498 |
| 700 | 12 | 267 | 26.860 | 24.330 | 26.817- | 15.010 | 1.522- | 19.149 | .096 | 79.5 | 19.286 | 14.834 | 1.226 | 483 |
| 700 | 03 | 271 | 16.890 | 23.051 | 16.887- | 14.178 | 0.347 | 18.175 | .037- | 94.0 | 18.194 | 14.153 | 1.201 | 457 |
| 700 | 06 | 269 | 10.877 | 16.648 | 10.875- | 11.490 | 0.213- | 12.047 | .170 | 53.0 | 12.771 | 10.680 | 1.212 | 460 |
| 700 | 09 | 278 | 15.303 | 18.982 | 15.150- | 15.567 | 2.157 | 16.813 | .018- | 96.5 | 16.829 | 15.549 | 1.207 | 516 |
| 500 | 12 | 267 | 44.953 | 35.403 | 44.890- | 22.373 | 2.370- | 27.437 | .288 | 62.5 | 29.055 | 20.227 | 1.252 | 483 |
| 500 | 03 | 270 | 28.417 | 30.720 | 28.417- | 20.151 | 0.015- | 23.187 | .076 | 76.0 | 23.381 | 19.926 | 1.281 | 458 |
| 500 | 06 | 275 | 15.944 | 19.863 | 15.894- | 14.391 | 1.270 | 13.690 | .101 | 32.0 | 14.820 | 13.224 | 1.227 | 460 |
| 500 | 09 | 277 | 25.183 | 31.235 | 25.017- | 21.693 | 2.897 | 22.473 | .090 | 55.5 | 23.135 | 20.985 | 1.289 | 516 |
| 400 | 12 | 268 | 59.911 | 41.849 | 59.880- | 29.997 | 1.935- | 29.180 | .174 | 40.5 | 32.093 | 26.857 | 1.317 | 91 |
| 400 | 03 | 267 | 32.349 | 33.657 | 32.314- | 21.879 | 1.506- | 25.575 | .250 | 61.0 | 27.052 | 20.024 | 1.258 | 92 |
| 400 | 06 | 274 | 21.014 | 18.590 | 20.957- | 13.643 | 1.546 | 12.626 | .076 | 22.0 | 13.838 | 12.412 | 1.254 | 123 |
| 400 | 09 | 271 | 29.770 | 30.939 | 29.763- | 22.516 | 0.640 | 21.219 | .288 | 39.0 | 24.884 | 18.385 | 1.305 | 121 |
| 300 | 12 | 267 | 64.021 | 47.122 | 63.936- | 30.059 | 3.303- | 36.289 | .198 | 67.0 | 37.547 | 28.472 | 1.228 | 483 |
| 300 | 03 | 268 | 42.512 | 42.687 | 42.490- | 29.312 | 1.366- | 31.032 | .059 | 67.0 | 31.405 | 28.912 | 1.310 | 459 |
| 300 | 06 | 279 | 24.260 | 26.740 | 23.929- | 19.439 | 3.996 | 18.362 | .092 | 29.0 | 19.906 | 17.855 | 1.245 | 459 |
| 300 | 09 | 276 | 38.353 | 43.579 | 38.144- | 30.851 | 3.999 | 30.779 | .153 | 44.5 | 33.093 | 28.354 | 1.308 | 515 |
| 200 | 12 | 266 | 71.788 | 44.996 | 71.570- | 29.268 | 5.589- | 34.177 | .161 | 67.0 | 35.171 | 28.065 | 1.300 | 482 |
| 200 | 03 | 267 | 48.690 | 41.364 | 48.615- | 27.449 | 2.703- | 30.944 | .088 | 72.0 | 31.343 | 26.993 | 1.284 | 458 |
| 200 | 06 | 280 | 32.826 | 35.748 | 32.319- | 26.125 | 5.744 | 24.400 | .045 | 17.0 | 26.295 | 24.216 | 1.261 | 458 |
| 200 | 09 | 273 | 47.166 | 43.329 | 47.092- | 31.654 | 2.641 | 29.588 | .228 | 37.0 | 34.081 | 26.756 | 1.343 | 514 |

## Denver, Colo. (Lowry AFB), U.S.A.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 289 | 14.344 | 17.755 | 13.546- | 12.611 | 4.719 | 12.497 | .027- | 144.5 | 12.733 | 12.373 | 1.302 | 483 |
| 700 | 03 | 286 | 9.692 | 15.958 | 9.317- | 10.833 | 2.670 | 11.717 | .035- | 102.0 | 11.759 | 10.787 | 1.229 | 460 |
| 700 | 06 | 274 | 6.602 | 11.998 | 6.585- | 7.663 | 0.466 | 9.232 | .110 | 75.0 | 9.346 | 07.523 | 1.254 | 460 |
| 700 | 10 | 297 | 9.542 | 14.925 | 8.469- | 10.221 | 4.397 | 10.877 | .186- | 126.0 | 11.545 | 09.460 | 1.325 | 516 |
| 500 | 12 | 286 | 29.273 | 34.155 | 28.173- | 22.547 | 7.948 | 25.656 | .144 | 66.0 | 26.376 | 21.700 | 1.229 | 483 |
| 500 | 03 | 277 | 20.890 | 27.150 | 20.733- | 18.210 | 2.562 | 20.138 | .006 | 88.0 | 20.140 | 18.208 | 1.224 | 460 |
| 500 | 06 | 267 | 16.148 | 18.388 | 16.127- | 12.050 | 0.818- | 13.889 | .083 | 75.0 | 14.024 | 11.892 | 1.310 | 460 |
| 500 | 09 | 288 | 21.353 | 27.291 | 20.254- | 17.810 | 6.762 | 20.679 | .026- | 95.0 | 20.699 | 17.787 | 1.277 | 516 |
| 400 | 12 | 281 | 41.642 | 40.298 | 40.869- | 27.334 | 7.987 | 29.611 | .133 | 60.5 | 30.627 | 26.190 | 1.250 | 91 |
| 400 | 03 | 284 | 20.303 | 31.543 | 19.686- | 20.715 | 4.967 | 23.788 | .148 | 66.5 | 24.449 | 19.931 | 1.216 | 92 |
| 400 | 06 | 254 | 21.943 | 19.253 | 21.103- | 12.691 | 6.010- | 14.478 | .011- | 92.5 | 14.481 | 12.687 | 1.306 | 123 |
| 400 | 09 | 278 | 27.482 | 30.011 | 27.190- | 21.270 | 3.997 | 21.173 | .039 | 41.5 | 21.634 | 20.801 | 1.195 | 121 |
| 300 | 12 | 274 | 47.017 | 47.735 | 46.897- | 30.858 | 3.361 | 36.419 | .225 | 63.0 | 38.136 | 28.710 | 1.217 | 483 |
| 300 | 03 | 268 | 35.198 | 43.117 | 35.181- | 29.103 | 1.104- | 31.812 | .116 | 63.5 | 32.637 | 28.175 | 1.210 | 460 |
| 300 | 06 | 259 | 32.385 | 28.431 | 31.828- | 19.333 | 5.981- | 20.846 | .125 | 60.5 | 21.523 | 18.577 | 1.253 | 460 |
| 300 | 09 | 281 | 33.037 | 41.115 | 32.476- | 27.460 | 6.067 | 30.600 | .080 | 72.0 | 30.959 | 27.054 | 1.211 | 518 |
| 200 | 12 | 271 | 56.497 | 45.415 | 56.481- | 29.948 | 1.366 | 34.141 | .125 | 68.0 | 34.885 | 29.078 | 1.281 | 481 |
| 200 | 03 | 267 | 39.064 | 39.685 | 39.017- | 25.937 | 1.917- | 30.037 | .067 | 77.5 | 30.228 | 25.715 | 1.232 | 460 |
| 200 | 06 | 261 | 40.872 | 34.463 | 40.388- | 22.804 | 6.276- | 25.838 | .162 | 64.0 | 26.735 | 21.746 | 1.249 | 460 |
| 200 | 09 | 279 | 39.587 | 42.131 | 39.057- | 27.808 | 6.461 | 31.650 | .124 | 68.0 | 32.336 | 27.008 | 1.224 | 518 |

## El Paso, Tex. , U.S.A.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 269 | 18.571 | 19.508 | 18.569- | 14.722 | 0.296- | 12.800 | .198 | 27.5 | 15.360 | 12.027 | 1.265 | 450 |
| 700 | 03 | 259 | 15.662 | 17.828 | 15.352- | 13.842 | 3.099- | 11.236 | .206 | 22.0 | 14.301 | 10.644 | 1.351 | 460 |
| 700 | 06 | 231 | 1.714 | 11.236 | 1.336- | 8.870 | 1.074- | 6.897 | .155 | 15.5 | 9.019 | 06.701 | 1.200 | 459 |
| 700 | 09 | 262 | 6.446 | 16.480 | 6.385- | 13.750 | 0.880- | 9.085 | .114 | 7.5 | 13.818 | 08.981 | 1.272 | 455 |
| 500 | 12 | 270 | 31.374 | 29.858 | 31.374- | 20.488 | 0.141 | 21.719 | .400 | 48.5 | 25.013 | 16.305 | 1.272 | 451 |
| 500 | 03 | 259 | 29.657 | 25.828 | 29.131- | 18.229 | 5.559- | 18.297 | .218 | 45.0 | 20.165 | 16.139 | 1.369 | 460 |
| 500 | 06 | 195 | 3.247 | 16.103 | 0.831- | 12.546 | 3.139- | 10.095 | .400 | 30.5 | 13.695 | 08.471 | 1.212 | 459 |
| 500 | 09 | 273 | 13.103 | 23.483 | 13.082- | 18.227 | 0.734 | 14.806 | .277 | 26.5 | 19.223 | 13.487 | 1.306 | 455 |
| 300 | 12 | 266 | 51.063 | 45.317 | 50.926- | 29.956 | 3.738- | 34.004 | .444 | 52.5 | 38.706 | 23.568 | 1.300 | 449 |
| 300 | 03 | 261 | 48.367 | 37.627 | 47.817- | 26.834 | 7.277- | 26.377 | .311 | 43.5 | 30.474 | 22.071 | 1.391 | 459 |
| 300 | 06 | 252 | 8.066 | 24.194 | 7.662- | 19.505 | 2.521- | 14.315 | .278 | 21.0 | 20.243 | 13.252 | 1.214 | 460 |
| 300 | 09 | 270 | 28.544 | 34.445 | 28.544- | 25.705 | 0.175 | 22.928 | .360 | 36.0 | 28.569 | 19.242 | 1.365 | 455 |
| 200 | 12 | 266 | 60.240 | 44.548 | 60.102- | 27.876 | 4.079- | 34.748 | .326 | 61.5 | 37.068 | 24.708 | 1.280 | 450 |
| 200 | 03 | 261 | 59.827 | 39.034 | 59.073- | 27.219 | 9.469- | 27.978 | .219 | 48.0 | 30.495 | 24.366 | 1.383 | 459 |
| 200 | 06 | 259 | 13.668 | 31.666 | 13.395- | 25.830 | 2.720- | 18.318 | .271 | 19.0 | 26.659 | 17.088 | 1.235 | 458 |
| 200 | 09 | 273 | 40.336 | 36.391 | 40.296- | 26.471 | 1.788 | 24.971 | .322 | 40.0 | 29.645 | 21.106 | 1.338 | 453 |

## Fort Worth, Texas (Carswell AFB), U.S.A.

| P | J | $\bar{\theta}$ | $\|\bar{V}\|$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 257 | 11.797 | 22.808 | 11.486- | 14.434 | 2.688- | 17.660 | .283 | 63.0 | 18.682 | 13.084 | 1.187 | 382 |
| 850 | 03 | 249 | 9.543 | 21.627 | 8.892- | 12.703 | 3.465- | 17.503 | .205 | 74.0 | 17.877 | 12.171 | 1.190 | 394 |
| 850 | 06 | 212 | 9.057 | 13.927 | 4.791- | 8.637 | 7.686- | 10.926 | .289 | 64.5 | 11.502 | 07.853 | 1.267 | 434 |
| 850 | 09 | 244 | 5.279 | 20.690 | 4.750- | 12.932 | 2.305- | 16.150 | .259 | 65.5 | 16.899 | 11.936 | 1.197 | 466 |
| 700 | 12 | 258 | 24.099 | 22.857 | 23.583- | 14.114 | 4.957- | 17.979 | .217 | 69.0 | 18.556 | 13.346 | 1.266 | 483 |
| 700 | 03 | 264 | 16.754 | 22.097 | 16.651- | 15.243 | 1.852- | 15.997 | .112 | 56.5 | 16.552 | 14.638 | 1.293 | 459 |
| 700 | 06 | 205 | 3.479 | 15.061 | 1.458- | 9.845 | 3.159- | 11.397 | .181 | 64.5 | 11.815 | 09.339 | 1.190 | 460 |
| 700 | 09 | 275 | 9.117 | 22.154 | 9.080- | 16.057 | 0.821 | 15.263 | .160 | 36.0 | 16.928 | 14.291 | 1.236 | 516 |
| 500 | 12 | 261 | 41.045 | 33.192 | 40.518- | 20.721 | 6.557- | 25.930 | .206 | 69.0 | 26.749 | 19.652 | 1.259 | 482 |
| 500 | 03 | 266 | 31.570 | 28.109 | 31.496- | 20.377 | 2.167- | 19.362 | .132 | 34.5 | 21.235 | 18.417 | 1.401 | 460 |
| 500 | 06 | 268 | 3.784 | 17.305 | 3.782- | 12.603 | 0.145- | 11.858 | .132 | 32.5 | 13.097 | 11.309 | 1.180 | 460 |
| 500 | 09 | 277 | 19.456 | 29.545 | 19.328- | 22.575 | 2.227 | 19.060 | .125 | 18.0 | 22.967 | 18.586 | 1.349 | 516 |
| 300 | 12 | 260 | 61.782 | 42.431 | 60.886- | 27.966 | 10.481- | 31.910 | .233 | 60.0 | 33.760 | 25.702 | 1.237 | 479 |
| 300 | 03 | 265 | 48.562 | 37.746 | 48.373- | 26.794 | 4.275- | 26.587 | .208 | 44.0 | 29.346 | 23.741 | 1.414 | 453 |
| 300 | 06 | 294 | 7.669 | 23.206 | 7.006- | 17.950 | 3.119 | 14.709 | .099 | 13.5 | 18.122 | 14.496 | 1.242 | 459 |
| 300 | 09 | 274 | 34.837 | 38.349 | 34.752- | 28.863 | 2.436 | 25.250 | .247 | 31.0 | 30.666 | 23.026 | 1.356 | 514 |
| 200 | 12 | 261 | 71.268 | 41.301 | 70.415- | 26.699 | 10.995- | 31.510 | .163 | 68.0 | 32.390 | 25.625 | 1.297 | 479 |
| 200 | 03 | 264 | 59.094 | 38.258 | 58.784- | 26.724 | 6.039- | 27.343 | .200 | 48.5 | 29.642 | 24.149 | 1.368 | 458 |
| 200 | 06 | 291 | 10.434 | 28.550 | 9.768- | 22.623 | 3.669 | 17.417 | .135 | 13.5 | 22.907 | 17.041 | 1.247 | 460 |
| 200 | 09 | 273 | 45.034 | 40.113 | 44.990- | 30.941 | 1.970 | 25.529 | .243 | 26.0 | 32.410 | 23.636 | 1.426 | 517 |

## Grand Junction, Colo., U.S.A.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 115 | 3.387 | 4.983 | 3.065 | 3.944 | 1.440- | 3.044 | .592- | 147.0 | 4.493 | 02.153 | 1.359 | 359 |
| 850 | 03 | 126 | 4.957 | 8.363 | 3.994 | 6.081 | 2.937- | 5.742 | .442- | 138.5 | 7.111 | 04.403 | 1.245 | 374 |
| 850 | 06 | 126 | 6.823 | 5.460 | 5.505 | 4.163 | 4.030- | 3.534 | .391- | 146.5 | 4.599 | 02.944 | 1.439 | 428 |
| 850 | 09 | 122 | 6.012 | 5.649 | 5.095 | 4.319 | 3.192- | 3.640 | .423- | 146.0 | 4.811 | 02.960 | 1.466 | 440 |
| 700 | 12 | 255 | 10.551 | 16.402 | 10.208- | 10.657 | 2.670- | 12.468 | .368 | 56.5 | 13.702 | 09.015 | 1.170 | 483 |
| 700 | 03 | 251 | 7.735 | 14.625 | 7.295- | 9.187 | 2.572- | 11.379 | .257 | 65.0 | 11.918 | 08.477 | 1.191 | 460 |
| 700 | 06 | 243 | 7.623 | 9.689 | 6.790- | 6.392 | 3.467- | 7.281 | .212 | 61.0 | 7.652 | 05.943 | 1.264 | 460 |
| 700 | 09 | 258 | 8.188 | 13.509 | 8.001- | 8.797 | 1.740- | 10.252 | .359 | 56.5 | 11.248 | 07.481 | 1.201 | 516 |
| 500 | 12 | 279 | 27.550 | 33.057 | 27.175- | 20.511 | 4.534 | 25.924 | .235 | 67.5 | 26.907 | 19.204 | 1.171 | 483 |
| 500 | 03 | 269 | 20.357 | 28.095 | 20.357- | 17.083 | 0.230- | 22.304 | .161 | 74.5 | 22.681 | 16.579 | 1.187 | 460 |
| 500 | 06 | 250 | 17.455 | 18.873 | 16.390- | 12.040 | 6.002- | 14.534 | .282 | 62.0 | 15.416 | 10.888 | 1.283 | 460 |
| 500 | 09 | 280 | 19.516 | 27.475 | 19.210- | 16.996 | 3.443 | 21.588 | .131 | 75.5 | 21.871 | 16.631 | 1.233 | 516 |
| 300 | 12 | 276 | 45.034 | 50.291 | 44.757- | 33.167 | 4.988 | 37.804 | .268 | 58.0 | 40.494 | 29.824 | 1.221 | 481 |
| 300 | 03 | 268 | 33.691 | 46.818 | 33.677- | 32.176 | 0.990- | 34.010 | .154 | 55.0 | 35.714 | 30.273 | 1.239 | 460 |
| 300 | 06 | 253 | 30.104 | 28.689 | 28.737- | 19.089 | 8.970- | 21.417 | .253 | 57.0 | 22.918 | 17.258 | 1.277 | 459 |
| 300 | 09 | 281 | 31.735 | 42.164 | 31.198- | 28.228 | 5.811 | 31.321 | .098 | 68.5 | 31.871 | 27.605 | 1.238 | 515 |
| 200 | 12 | 273 | 51.390 | 44.970 | 51.314- | 29.829 | 2.782 | 33.653 | .177 | 62.0 | 35.026 | 28.204 | 1.263 | 482 |
| 200 | 03 | 268 | 38.157 | 39.663 | 38.123- | 26.730 | 1.603- | 29.303 | .101 | 66.0 | 29.901 | 26.059 | 1.272 | 460 |
| 200 | 06 | 255 | 40.079 | 32.087 | 38.652- | 22.377 | 10.601- | 22.997 | .257 | 48.0 | 25.454 | 19.537 | 1.294 | 460 |
| 200 | 09 | 278 | 39.629 | 40.508 | 39.243- | 26.381 | 5.518 | 30.740 | .033 | 84.0 | 30.788 | 26.325 | 1.275 | 516 |

## Green Bay, Wis., U.S.A.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 276 | 14.818 | 20.349 | 14.735- | 14.337 | 1.569 | 14.440 | .126 | 46.5 | 15.270 | 13.450 | 1.239 | 293 |
| 850 | 03 | 294 | 6.775 | 20.528 | 6.188- | 14.271 | 2.759 | 14.756 | .201 | 49.5 | 15.928 | 12.950 | 1.171 | 328 |
| 850 | 06 | 268 | 9.392 | 16.779 | 9.389- | 12.218 | 0.259- | 11.500 | .156 | 34.5 | 12.818 | 10.828 | 1.209 | 344 |
| 850 | 10 | 267 | 11.537 | 19.404 | 11.522- | 13.399 | 0.597- | 14.036 | .149 | 53.5 | 14.754 | 12.604 | 1.180 | 367 |
| 700 | 12 | 274 | 24.985 | 23.582 | 24.916- | 15.580 | 1.861 | 17.702 | .059 | 77.5 | 17.804 | 15.463 | 1.218 | 483 |
| 700 | 03 | 282 | 15.037 | 23.430 | 14.709- | 16.450 | 3.129 | 16.683 | .045 | 53.5 | 16.960 | 16.164 | 1.186 | 459 |
| 700 | 06 | 279 | 15.885 | 17.613 | 15.703- | 12.923 | 2.397 | 11.967 | .043 | 14.5 | 12.990 | 11.894 | 1.293 | 461 |
| 700 | 09 | 276 | 18.694 | 23.037 | 18.606- | 15.632 | 1.807 | 16.922 | .120 | 61.5 | 17.424 | 15.070 | 1.178 | 516 |
| 500 | 12 | 276 | 40.340 | 33.688 | 40.127- | 22.534 | 4.140 | 25.042 | .067 | 74.0 | 25.262 | 22.287 | 1.242 | 483 |
| 500 | 03 | 281 | 25.867 | 31.414 | 25.370- | 22.688 | 5.044 | 21.728 | .009- | 173.5 | 22.700 | 21.715 | 1.224 | 461 |
| 500 | 06 | 280 | 24.673 | 20.868 | 24.329- | 14.890 | 4.110 | 14.620 | .083 | 39.0 | 15.371 | 14.113 | 1.311 | 460 |
| 500 | 09 | 277 | 28.990 | 34.571 | 28.749- | 23.006 | 3.727 | 25.804 | .036 | 81.0 | 25.870 | 22.931 | 1.246 | 517 |
| 300 | 12 | 275 | 61.904 | 49.166 | 64.313- | 32.985 | 5.076 | 36.459 | .094 | 68.5 | 37.068 | 32.299 | 1.249 | 482 |
| 300 | 03 | 280 | 39.264 | 44.832 | 38.703- | 31.927 | 6.617 | 31.474 | .017- | 154.5 | 32.062 | 31.336 | 1.235 | 460 |
| 300 | 06 | 280 | 39.767 | 32.670 | 39.141- | 23.070 | 7.030 | 23.132 | .124 | 45.5 | 24.496 | 21.616 | 1.363 | 458 |
| 300 | 09 | 279 | 42.498 | 47.869 | 41.941- | 32.532 | 6.861 | 35.116 | .083 | 66.5 | 35.703 | 31.887 | 1.266 | 517 |
| 200 | 12 | 273 | 63.538 | 42.216 | 63.476- | 27.477 | 2.820 | 32.050 | .123 | 70.5 | 32.639 | 26.774 | 1.271 | 482 |
| 200 | 03 | 277 | 42.174 | 38.866 | 41.899- | 27.763 | 4.806 | 27.200 | .067 | 36.5 | 28.441 | 26.491 | 1.259 | 460 |
| 200 | 06 | 281 | 44.941 | 35.343 | 44.139- | 25.269 | 8.449 | 24.711 | .142 | 40.5 | 26.730 | 23.123 | 1.324 | 475 |
| 200 | 09 | 277 | 46.157 | 43.194 | 45.816- | 29.153 | 5.604 | 31.872 | .109 | 64.5 | 32.616 | 28.319 | 1.221 | 518 |

## Greensboro, N.C., U.S.A.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 272 | 15.402 | 19.758 | 15.396- | 12.913 | 0.427 | 14.955 | .135 | 68.5 | 15.292 | 12.512 | 1.213 | 428 |
| 850 | 03 | 275 | 11.014 | 17.683 | 10.977- | 11.393 | 0.909 | 13.524 | .205 | 65.0 | 14.061 | 10.724 | 1.188 | 438 |
| 850 | 06 | 286 | 5.769 | 13.158 | 5.553- | 10.037 | 1.563 | 8.510 | .103 | 16.0 | 10.163 | 08.359 | 1.195 | 451 |
| 850 | 09 | 282 | 5.759 | 17.546 | 5.640- | 12.837 | 1.167 | 11.961 | .143 | 32.0 | 13.359 | 11.375 | 1.191 | 476 |
| 700 | 12 | 267 | 29.752 | 21.605 | 29.708- | 13.963 | 1.620- | 16.488 | .091 | 75.5 | 16.650 | 13.769 | 1.270 | 483 |
| 700 | 03 | 270 | 21.683 | 23.337 | 21.683- | 15.488 | 0.134 | 17.456 | .227 | 59.0 | 18.489 | 14.239 | 1.258 | 460 |
| 700 | 06 | 278 | 10.018 | 14.635 | 9.919- | 10.891 | 1.409 | 9.776 | .065 | 15.5 | 10.980 | 09.676 | 1.227 | 460 |
| 700 | 09 | 264 | 14.356 | 21.379 | 14.274- | 16.397 | 1.530- | 13.719 | .162 | 21.0 | 16.823 | 13.193 | 1.259 | 516 |
| 500 | 12 | 266 | 48.504 | 31.623 | 48.397- | 19.970 | 3.236- | 24.520 | .181 | 69.5 | 25.191 | 19.117 | 1.349 | 480 |
| 500 | 03 | 271 | 34.714 | 33.355 | 34.703- | 24.352 | 0.850 | 22.793 | .215 | 36.5 | 26.100 | 20.768 | 1.376 | 461 |
| 500 | 06 | 272 | 13.829 | 17.523 | 13.816- | 13.089 | 0.595 | 11.651 | .157 | 26.5 | 13.543 | 11.120 | 1.246 | 460 |
| 500 | 09 | 263 | 26.865 | 30.341 | 26.640- | 22.948 | 3.473- | 19.849 | .136 | 21.5 | 23.477 | 19.220 | 1.395 | 516 |
| 300 | 12 | 267 | 71.208 | 42.937 | 71.102- | 27.963 | 3.892- | 32.583 | .157 | 67.0 | 33.497 | 26.861 | 1.327 | 484 |
| 300 | 03 | 271 | 48.574 | 44.515 | 48.562- | 32.885 | 1.096 | 30.002 | .281 | 36.0 | 35.814 | 26.437 | 1.335 | 461 |
| 300 | 06 | 273 | 17.276 | 28.395 | 17.257- | 19.524 | 0.784 | 20.617 | .165 | 54.0 | 21.757 | 18.245 | 1.259 | 461 |
| 300 | 09 | 262 | 44.696 | 41.238 | 44.288- | 31.026 | 6.027- | 27.165 | .184 | 27.0 | 32.284 | 25.657 | 1.393 | 516 |
| 200 | 12 | 268 | 80.137 | 40.000 | 80.090- | 26.672 | 2.721- | 29.810 | .165 | 62.0 | 30.958 | 25.330 | 1.358 | 483 |
| 200 | 03 | 272 | 55.063 | 43.175 | 55.021- | 32.308 | 2.163 | 28.640 | .251 | 32.0 | 34.499 | 25.959 | 1.310 | 461 |
| 200 | 06 | 286 | 20.923 | 34.092 | 20.118- | 24.047 | 5.744 | 24.166 | .149 | 46.0 | 25.849 | 22.228 | 1.219 | 460 |
| 200 | 09 | 263 | 53.970 | 43.746 | 53.534- | 31.830 | 6.846- | 30.010 | .272 | 39.0 | 34.974 | 26.279 | 1.344 | 516 |

## Hatteras, N.C., U.S.A.

| P | J | $\bar{\theta}$ | $\bar{\|V\|}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 269 | 15.800 | 17.881 | 15.796- | 12.390 | 0.368- | 12.892 | .125 | 54.0 | 13.447 | 11.785 | 1.202 | 436 |
| 850 | 03 | 274 | 11.504 | 18.031 | 11.476- | 12.323 | 0.811 | 13.163 | .170 | 55.5 | 13.864 | 11.528 | 1.191 | 429 |
| 850 | 06 | 263 | 6.328 | 13.914 | 6.279- | 10.393 | 0.784- | 9.251 | .235 | 32.0 | 11.047 | 08.460 | 1.187 | 444 |
| 850 | 09 | 267 | 5.215 | 18.033 | 5.205- | 14.240 | 0.317- | 11.063 | .192 | 18.5 | 14.591 | 10.596 | 1.168 | 486 |
| 700 | 12 | 266 | 28.827 | 22.205 | 28.741- | 14.797 | 2.223- | 16.556 | .213 | 59.0 | 17.486 | 13.686 | 1.296 | 483 |
| 700 | 03 | 269 | 21.153 | 22.395 | 21.148- | 16.397 | 0.469- | 15.254 | .152 | 32.5 | 17.114 | 14.445 | 1.258 | 460 |
| 700 | 06 | 272 | 9.980 | 14.841 | 9.973- | 11.151 | 0.379 | 9.792 | .066 | 13.5 | 11.230 | 09.702 | 1.193 | 460 |
| 700 | 09 | 262 | 14.050 | 22.083 | 13.912- | 16.523 | 1.967- | 14.651 | .210 | 30.0 | 17.394 | 13.605 | 1.283 | 516 |
| 500 | 12 | 268 | 46.251 | 32.184 | 46.233- | 21.532 | 1.300- | 23.921 | .119 | 65.5 | 24.495 | 20.876 | 1.351 | 482 |
| 500 | 03 | 270 | 34.119 | 30.590 | 34.118- | 23.423 | 0.223 | 19.675 | .128 | 18.0 | 23.832 | 19.178 | 1.393 | 460 |
| 500 | 06 | 269 | 12.959 | 17.584 | 12.957- | 12.570 | 0.237- | 12.296 | .045 | 32.0 | 12.744 | 12.115 | 1.228 | 460 |
| 500 | 09 | 260 | 24.845 | 29.624 | 24.469- | 22.612 | 4.310- | 19.139 | .207 | 25.5 | 23.540 | 17.985 | 1.417 | 516 |
| 300 | 12 | 269 | 68.025 | 42.273 | 68.022- | 28.838 | 0.648- | 30.909 | .263 | 52.5 | 33.717 | 25.499 | 1.335 | 483 |
| 300 | 03 | 272 | 47.697 | 43.123 | 47.678- | 32.822 | 1.343 | 27.970 | .136 | 20.0 | 33.520 | 27.129 | 1.345 | 459 |
| 300 | 06 | 270 | 16.073 | 26.480 | 16.073- | 19.157 | 0.010 | 18.282 | .167 | 37.0 | 20.289 | 17.017 | 1.252 | 459 |
| 300 | 09 | 260 | 42.982 | 40.868 | 42.318- | 32.004 | 7.523- | 25.414 | .256 | 24.0 | 33.415 | 23.528 | 1.417 | 516 |
| 200 | 12 | 270 | 78.432 | 40.389 | 78.430- | 28.150 | 0.688 | 28.963 | .166 | 50.0 | 30.881 | 26.032 | 1.355 | 482 |
| 200 | 03 | 272 | 55.106 | 42.037 | 55.073- | 31.912 | 1.906 | 27.363 | .154 | 22.5 | 32.773 | 26.326 | 1.363 | 461 |
| 200 | 06 | 283 | 18.377 | 33.717 | 17.891- | 25.317 | 4.197 | 22.267 | .123 | 22.0 | 25.866 | 21.627 | 1.249 | 460 |
| 200 | 09 | 262 | 50.125 | 42.709 | 49.635- | 32.383 | 6.992- | 27.844 | .266 | 30.0 | 34.478 | 25.204 | 1.342 | 514 |

## International Falls, Minn., U.S.A.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 287 | 10.034 | 20.130 | 9.571- | 13.467 | 3.011 | 14.961 | .064- | 106.0 | 15.084 | 13.329 | 1.128 | 466 |
| 850 | 03 | 306 | 5.016 | 20.090 | 4.072- | 14.343 | 2.929 | 14.066 | .086 | 38.5 | 14.824 | 13.558 | 1.134 | 444 |
| 850 | 06 | 273 | 8.514 | 18.450 | 8.498- | 13.144 | 0.513 | 12.946 | .012- | 160.0 | 13.174 | 12.916 | 1.173 | 441 |
| 850 | 09 | 285 | 9.901 | 20.984 | 9.551- | 13.593 | 2.607 | 15.987 | .026- | 94.5 | 16.001 | 13.576 | 1.146 | 482 |
| 700 | 12 | 287 | 20.203 | 23.075 | 19.310- | 15.083 | 5.943 | 17.463 | .052- | 99.5 | 17.530 | 15.005 | 1.177 | 483 |
| 700 | 03 | 294 | 11.595 | 22.762 | 10.553- | 15.717 | 4.804 | 16.463 | .091 | 58.5 | 16.895 | 15.251 | 1.153 | 460 |
| 700 | 06 | 282 | 16.513 | 20.456 | 16.155- | 14.231 | 3.421 | 14.693 | .017 | 76.0 | 14.724 | 14.199 | 1.235 | 460 |
| 700 | 09 | 287 | 16.815 | 23.496 | 16.066- | 14.824 | 4.961 | 18.229 | .034 | 85.5 | 18.250 | 14.798 | 1.172 | 516 |
| 500 | 12 | 284 | 33.477 | 31.817 | 32.521- | 22.072 | 7.947 | 22.916 | .006- | 94.5 | 22.922 | 22.066 | 1.232 | 484 |
| 500 | 03 | 288 | 20.683 | 29.987 | 19.647- | 20.806 | 6.464 | 21.595 | .002 | 88.5 | 21.595 | 20.806 | 1.189 | 460 |
| 500 | 06 | 283 | 25.850 | 22.781 | 25.237- | 14.517 | 5.597 | 17.556 | .033 | 85.0 | 17.577 | 14.492 | 1.259 | 460 |
| 500 | 09 | 287 | 26.264 | 31.970 | 25.154- | 19.757 | 7.556 | 25.135 | .005 | 89.5 | 25.136 | 19.756 | 1.203 | 516 |
| 300 | 12 | 279 | 46.449 | 44.020 | 45.935- | 29.108 | 6.890 | 33.023 | .109 | 69.5 | 33.610 | 28.428 | 1.249 | 482 |
| 300 | 03 | 278 | 31.379 | 42.394 | 31.058- | 29.467 | 4.475 | 30.478 | .057 | 60.0 | 30.964 | 28.956 | 1.172 | 459 |
| 300 | 06 | 278 | 38.077 | 32.912 | 37.713- | 22.068 | 5.253 | 24.417 | .189 | 59.0 | 25.642 | 20.632 | 1.220 | 461 |
| 300 | 09 | 287 | 35.550 | 43.318 | 34.014- | 26.259 | 10.335 | 34.452 | .097 | 80.5 | 34.670 | 25.970 | 1.202 | 515 |
| 200 | 12 | 277 | 47.697 | 35.045 | 47.317- | 23.672 | 6.013 | 25.842 | .195 | 57.0 | 27.295 | 21.981 | 1.275 | 481 |
| 200 | 03 | 279 | 30.597 | 32.756 | 30.241- | 22.281 | 4.649 | 24.010 | .074 | 67.5 | 24.350 | 21.909 | 1.188 | 459 |
| 200 | 05 | 277 | 43.359 | 34.342 | 43.065- | 21.639 | 5.042 | 26.666 | .329 | 61.5 | 28.548 | 19.087 | 1.220 | 461 |
| 200 | 09 | 284 | 37.426 | 39.759 | 36.314- | 24.610 | 9.055 | 31.227 | .094 | 79.5 | 31.447 | 24.328 | 1.197 | 516 |

## Jacksonville, Fla., U.S.A.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 244 | 8.602 | 18.611 | 7.756- | 13.162 | 3.719- | 13.159 | .137- | 135.0 | 14.036 | 12.222 | 1.198 | 353 |
| 850 | 03 | 267 | 8.981 | 17.411 | 8.969- | 12.861 | 0.452- | 11.736 | .038- | 168.5 | 12.921 | 11.670 | 1.183 | 397 |
| 850 | 06 | 251 | 3.531 | 11.540 | 3.343- | 8.905 | 1.136- | 7.340 | .113 | 15.0 | 9.018 | 07.201 | 1.193 | 401 |
| 850 | 09 | 262 | 3.084 | 16.079 | 3.055- | 12.788 | 0.419- | 9.748 | .031 | 3.5 | 12.796 | 09.737 | 1.210 | 324 |
| 700 | 12 | 261 | 19.368 | 19.653 | 19.154- | 14.377 | 2.876- | 13.399 | .008 | 3.5 | 14.375 | 13.401 | 1.370 | 451 |
| 700 | 03 | 271 | 16.297 | 19.795 | 16.295- | 15.147 | 0.272 | 12.745 | .048 | 8.0 | 15.181 | 12.704 | 1.303 | 460 |
| 700 | 06 | 248 | 3.792 | 12.329 | 3.515- | 9.230 | 1.423- | 8.174 | .009- | 177.5 | 9.228 | 08.175 | 1.165 | 459 |
| 700 | 09 | 259 | 8.053 | 17.760 | 7.906- | 14.172 | 1.528- | 10.704 | .123 | 12.0 | 14.307 | 10.524 | 1.258 | 455 |
| 500 | 12 | 267 | 35.364 | 24.790 | 35.303- | 17.609 | 2.065- | 17.703 | .039 | 49.0 | 18.051 | 17.252 | 1.440 | 451 |
| 500 | 03 | 275 | 30.195 | 24.649 | 30.097- | 19.497 | 2.424 | 15.081 | .176 | 17.0 | 19.902 | 14.544 | 1.494 | 460 |
| 500 | 06 | 269 | 4.558 | 14.299 | 4.557- | 10.475 | 0.099- | 9.733 | .063 | 20.5 | 10.591 | 09.608 | 1.139 | 460 |
| 500 | 09 | 261 | 18.383 | 23.079 | 18.155- | 17.978 | 2.888- | 14.472 | .115 | 14.0 | 18.177 | 14.220 | 1.356 | 455 |
| 300 | 12 | 270 | 54.383 | 34.207 | 54.381- | 25.245 | 0.375- | 23.083 | .106 | 25.0 | 25.798 | 22.464 | 1.497 | 451 |
| 300 | 03 | 274 | 48.655 | 34.191 | 48.505- | 26.405 | 3.813 | 21.721 | .220 | 24.0 | 27.465 | 20.365 | 1.457 | 428 |
| 300 | 06 | 292 | 6.171 | 22.031 | 5.710- | 16.533 | 2.339 | 14.561 | .106 | 20.0 | 16.805 | 14.246 | 1.144 | 368 |
| 300 | 09 | 264 | 36.753 | 32.253 | 36.522- | 24.282 | 4.117- | 21.227 | .262 | 31.5 | 25.930 | 19.180 | 1.380 | 364 |
| 200 | 12 | 270 | 66.171 | 36.223 | 66.170- | 25.836 | 0.417- | 25.389 | .120 | 41.0 | 27.101 | 24.034 | 1.408 | 451 |
| 200 | 03 | 275 | 60.373 | 38.838 | 60.161- | 29.124 | 5.057 | 25.694 | .167 | 26.5 | 30.179 | 24.446 | 1.420 | 429 |
| 200 | 06 | 307 | 7.410 | 27.084 | 5.946- | 20.451 | 4.421 | 17.757 | .044 | 9.0 | 20.510 | 17.688 | 1.112 | 368 |
| 200 | 09 | 267 | 43.039 | 37.097 | 42.985- | 27.889 | 2.142- | 24.463 | .343 | 34.5 | 30.643 | 20.910 | 1.342 | 364 |

## Las Vegas, Nev., (Nellis A.F.B.), U.S.A.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 335 | 3.286 | 14.387 | 1.412- | 8.081 | 2.967 | 11.903 | .352 | 69.0 | 12.433 | 07.239 | 1.201 | 457 |
| 850 | 03 | 316 | 2.626 | 14.443 | 1.836- | 7.707 | 1.878 | 12.216 | .286 | 74.5 | 12.518 | 07.206 | 1.150 | 446 |
| 850 | 06 | 200 | 4.679 | 10.030 | 1.621- | 5.536 | 4.390 | 8.364 | .659 | 61.5 | 9.306 | 03.742 | 1.202 | 455 |
| 850 | 09 | 351 | 2.285 | 13.530 | 0.352- | 7.914 | 2.258 | 10.974 | .521 | 61.5 | 12.053 | 06.148 | 1.185 | 504 |
| 700 | 12 | 285 | 9.562 | 22.000 | 9.243- | 14.262 | 2.446 | 16.751 | .288 | 59.5 | 17.918 | 12.765 | 1.170 | 483 |
| 700 | 03 | 266 | 6.541 | 19.413 | 6.523- | 11.296 | 0.487- | 15.789 | .170 | 76.5 | 16.015 | 10.973 | 1.188 | 460 |
| 700 | 06 | 204 | 11.010 | 12.741 | 4.497- | 7.643 | 10.050- | 10.194 | .222 | 71.5 | 10.476 | 07.251 | 1.343 | 460 |
| 700 | 09 | 245 | 5.330 | 17.872 | 4.812- | 11.183 | 2.293- | 13.942 | .289 | 64.0 | 14.717 | 10.142 | 1.195 | 516 |
| 500 | 12 | 280 | 24.440 | 35.343 | 24.056- | 22.283 | 4.318 | 27.434 | .213 | 67.0 | 28.413 | 21.020 | 1.195 | 481 |
| 500 | 03 | 272 | 19.369 | 30.853 | 19.357- | 19.120 | 0.679 | 24.214 | .066 | 82.0 | 24.300 | 19.010 | 1.227 | 459 |
| 500 | 06 | 230 | 14.510 | 18.783 | 11.050- | 13.259 | 9.403- | 13.303 | .113 | 46.0 | 14.017 | 12.502 | 1.335 | 460 |
| 500 | 09 | 271 | 14.255 | 27.337 | 14.251- | 17.509 | 0.303 | 20.994 | .058 | 81.0 | 21.075 | 17.412 | 1.255 | 516 |
| 300 | 12 | 278 | 42.424 | 50.671 | 41.996- | 34.582 | 6.018 | 37.037 | .300 | 51.5 | 40.975 | 29.811 | 1.204 | 483 |
| 300 | 03 | 273 | 35.663 | 46.390 | 35.621- | 30.459 | 1.722 | 34.990 | .251 | 59.5 | 37.182 | 27.741 | 1.251 | 460 |
| 300 | 06 | 241 | 27.821 | 30.127 | 24.223- | 20.263 | 13.685- | 22.294 | .258 | 55.0 | 24.050 | 18.144 | 1.316 | 459 |
| 300 | 09 | 275 | 26.850 | 39.939 | 26.745- | 26.788 | 2.370 | 29.623 | .196 | 58.5 | 31.192 | 24.944 | 1.276 | 516 |
| 200 | 12 | 275 | 52.093 | 46.910 | 51.910- | 31.537 | 4.356 | 34.727 | .232 | 56.5 | 37.096 | 28.713 | 1.234 | 484 |
| 200 | 03 | 271 | 44.389 | 43.463 | 44.386- | 28.755 | 0.453 | 32.591 | .196 | 61.5 | 34.104 | 26.943 | 1.264 | 459 |
| 200 | 06 | 242 | 36.302 | 34.947 | 31.920- | 24.122 | 17.290- | 25.287 | .262 | 50.0 | 27.807 | 21.168 | 1.291 | 460 |
| 200 | 09 | 272 | 37.722 | 40.788 | 37.703- | 28.110 | 1.177 | 29.555 | .158 | 54.0 | 31.145 | 26.337 | 1.321 | 516 |

## Little Rock, Ark., U.S.A.

| P | J | $\bar{\theta}$ | $\overline{\|V\|}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 253 | 13.476 | 21.805 | 12.898- | 13.216 | 3.903- | 17.344 | .247 | 69.0 | 17.958 | 12.368 | 1.194 | 456 |
| 850 | 03 | 253 | 10.429 | 20.800 | 9.974- | 12.763 | 3.046- | 16.423 | .098 | 79.5 | 16.539 | 12.612 | 1.197 | 445 |
| 850 | 06 | 247 | 7.564 | 14.637 | 6.945- | 9.961 | 2.997- | 10.725 | .281 | 52.5 | 11.758 | 08.718 | 1.216 | 434 |
| 850 | 09 | 278 | 5.148 | 19.010 | 5.093- | 12.441 | 0.750 | 14.374 | .182 | 64.0 | 14.912 | 11.791 | 1.172 | 502 |
| 700 | 12 | 256 | 26.110 | 22.915 | 25.349- | 13.505 | 6.257- | 18.512 | .082 | 83.0 | 18.582 | 13.408 | 1.222 | 481 |
| 700 | 03 | 263 | 17.765 | 23.066 | 17.621- | 14.792 | 2.259- | 17.698 | .072- | 101.0 | 17.800 | 14.669 | 1.248 | 460 |
| 700 | 06 | 261 | 6.132 | 15.586 | 6.051- | 10.162 | 0.991- | 11.817 | .138 | 69.0 | 12.086 | 09.841 | 1.151 | 459 |
| 700 | 09 | 274 | 11.530 | 22.595 | 11.502- | 15.653 | 0.818 | 16.294 | .093 | 56.5 | 16.768 | 15.144 | 1.207 | 516 |
| 500 | 12 | 258 | 43.666 | 31.704 | 42.746- | 19.081 | 8.916- | 25.320 | .074 | 82.5 | 25.411 | 18.960 | 1.284 | 484 |
| 500 | 03 | 264 | 31.090 | 29.904 | 30.933- | 20.735 | 3.122- | 21.549 | .086 | 57.0 | 22.121 | 20.123 | 1.344 | 460 |
| 500 | 06 | 275 | 8.023 | 16.518 | 7.993- | 11.487 | 0.695 | 11.870 | .052 | 61.0 | 12.037 | 11.312 | 1.172 | 460 |
| 500 | 09 | 271 | 21.963 | 29.796 | 21.956- | 22.683 | 0.568 | 19.319 | .195 | 25.5 | 23.558 | 18.242 | 1.327 | 516 |
| 300 | 12 | 259 | 64.377 | 43.651 | 63.228- | 26.703 | 12.113- | 34.531 | .131 | 76.5 | 34.946 | 26.158 | 1.275 | 481 |
| 300 | 03 | 263 | 48.963 | 42.265 | 48.629- | 29.803 | 5.712- | 29.970 | .061 | 47.5 | 30.791 | 28.954 | 1.411 | 461 |
| 300 | 06 | 291 | 12.564 | 25.161 | 11.761- | 17.042 | 4.421 | 18.510 | .101 | 64.5 | 18.915 | 16.592 | 1.222 | 459 |
| 300 | 09 | 270 | 37.568 | 43.002 | 37.568- | 32.831 | 0.051 | 27.771 | .198 | 25.0 | 34.088 | 26.213 | 1.391 | 515 |
| 200 | 12 | 261 | 76.597 | 42.679 | 75.597- | 27.470 | 12.329- | 32.663 | .117 | 73.0 | 33.153 | 26.877 | 1.295 | 483 |
| 200 | 03 | 264 | 56.468 | 40.610 | 56.198- | 28.751 | 5.511- | 28.680 | .155 | 44.5 | 30.862 | 26.395 | 1.411 | 459 |
| 200 | 06 | 291 | 15.902 | 31.885 | 14.872- | 23.178 | 5.630 | 21.897 | .009 | 5.0 | 23.188 | 21.887 | 1.275 | 479 |
| 200 | 09 | 269 | 47.630 | 41.656 | 47.623- | 31.623 | 0.777- | 27.113 | .175 | 24.5 | 32.676 | 25.834 | 1.428 | 516 |

## Medford, Oreg., U.S.A.

| P | J | $\bar{\theta}$ | $\overline{\|V\|}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 220 | 7.755 | 14.061 | 4.963- | 10.230 | 5.958- | 9.646 | .117 | 31.5 | 10.573 | 09.269 | 1.210 | 392 |
| 850 | 03 | 195 | 3.545 | 11.283 | 0.896- | 7.775 | 3.430- | 8.177 | .008- | 94.5 | 8.179 | 07.773 | 1.170 | 430 |
| 850 | 06 | 103 | 1.444 | 6.970 | 1.409 | 5.023 | 0.320- | 4.831 | .109- | 145.0 | 5.206 | 04.633 | 1.207 | 445 |
| 850 | 09 | 195 | 4.450 | 11.693 | 1.181- | 7.930 | 4.290- | 8.593 | .120 | 62.0 | 8.843 | 07.650 | 1.207 | 484 |
| 700 | 12 | 269 | 18.245 | 25.895 | 18.243- | 17.519 | 0.311- | 19.069 | .393 | 51.0 | 21.677 | 14.166 | 1.193 | 483 |
| 700 | 03 | 269 | 11.128 | 22.105 | 11.127- | 13.366 | 0.163- | 17.607 | .218 | 71.0 | 18.104 | 12.685 | 1.175 | 460 |
| 700 | 06 | 248 | 6.623 | 13.967 | 6.135- | 8.963 | 2.496- | 10.712 | .284 | 61.0 | 11.394 | 08.078 | 1.159 | 460 |
| 700 | 09 | 262 | 12.038 | 22.996 | 11.916- | 15.463 | 1.713- | 17.020 | .327 | 53.0 | 18.821 | 13.213 | 1.220 | 515 |
| 500 | 12 | 279 | 29.903 | 37.396 | 29.517- | 24.376 | 4.793 | 28.359 | .284 | 59.0 | 30.363 | 21.829 | 1.169 | 483 |
| 500 | 03 | 273 | 21.428 | 33.765 | 21.399- | 20.437 | 1.109 | 26.877 | .072 | 82.5 | 26.973 | 20.311 | 1.224 | 459 |
| 500 | 06 | 260 | 15.092 | 23.036 | 14.875- | 14.509 | 2.553- | 17.892 | .164 | 71.0 | 18.300 | 13.991 | 1.232 | 460 |
| 500 | 09 | 272 | 20.618 | 34.232 | 20.604- | 22.701 | 0.766 | 25.623 | .176 | 62.0 | 26.658 | 21.477 | 1.206 | 517 |
| 300 | 12 | 285 | 44.184 | 52.393 | 42.646- | 34.508 | 11.556 | 39.423 | .177 | 63.5 | 40.918 | 32.721 | 1.186 | 483 |
| 300 | 03 | 277 | 32.695 | 47.392 | 32.429- | 29.478 | 4.160 | 37.109 | .070 | 81.5 | 37.265 | 29.281 | 1.200 | 459 |
| 300 | 06 | 260 | 25.395 | 35.216 | 25.038- | 22.890 | 4.241- | 26.763 | .324 | 58.0 | 29.000 | 19.981 | 1.218 | 459 |
| 300 | 09 | 275 | 32.468 | 47.722 | 32.358- | 33.388 | 2.667 | 34.097 | .133 | 49.5 | 35.951 | 31.383 | 1.218 | 515 |
| 200 | 12 | 286 | 46.544 | 46.037 | 44.747- | 30.927 | 12.810 | 34.102 | .303 | 54.0 | 37.360 | 26.900 | 1.194 | 483 |
| 200 | 03 | 281 | 35.729 | 41.263 | 35.036- | 27.452 | 7.002 | 30.807 | .059 | 76.5 | 31.007 | 27.225 | 1.238 | 461 |
| 200 | 06 | 258 | 32.722 | 37.137 | 31.958- | 23.643 | 7.027- | 28.639 | .282 | 62.0 | 30.350 | 21.402 | 1.223 | 460 |
| 200 | 09 | 274 | 36.155 | 46.619 | 36.076- | 32.054 | 2.389 | 33.851 | .159 | 54.5 | 35.624 | 30.071 | 1.212 | 515 |

## Miami, Fla., U.S.A.

| P | J | $\bar{\theta}$ | $\overline{\|V\|}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 129 | 2.531 | 15.568 | 1.959 | 12.659 | 1.603- | 9.062 | .036 | 3.0 | 12.668 | 09.049 | 1.147 | 478 |
| 850 | 03 | 224 | 1.542 | 14.779 | 1.070- | 11.387 | 1.110- | 9.421 | .166 | 20.5 | 11.677 | 09.059 | 1.163 | 350 |
| 850 | 06 | 138 | 4.589 | 10.147 | 3.071 | 7.657 | 3.409- | 6.658 | .031- | 173.5 | 7.668 | 06.645 | 1.203 | 458 |
| 850 | 09 | 129 | 3.238 | 13.390 | 2.517 | 10.421 | 2.037- | 8.409 | .147 | 17.0 | 10.611 | 08.168 | 1.181 | 503 |
| 700 | 12 | 268 | 6.417 | 16.874 | 6.413- | 13.683 | 0.231- | 9.874 | .097 | 8.0 | 13.752 | 09.777 | 1.228 | 483 |
| 700 | 03 | 273 | 8.454 | 16.116 | 8.440- | 12.891 | 0.477 | 9.671 | .178 | 15.5 | 13.131 | 09.342 | 1.263 | 460 |
| 700 | 06 | 136 | 3.177 | 10.953 | 2.223 | 8.362 | 2.269- | 7.075 | .114 | 17.0 | 8.485 | 06.927 | 1.175 | 460 |
| 700 | 09 | 225 | 3.885 | 14.343 | 2.729- | 10.970 | 2.766- | 9.239 | .121 | 17.5 | 11.147 | 09.025 | 1.206 | 516 |
| 500 | 12 | 272 | 19.986 | 21.924 | 19.968- | 16.989 | 0.861 | 13.859 | .175 | 20.5 | 17.432 | 13.297 | 1.343 | 482 |
| 500 | 03 | 277 | 21.118 | 20.617 | 20.962- | 16.450 | 2.570 | 12.428 | .151 | 14.0 | 16.684 | 12.112 | 1.416 | 460 |
| 500 | 06 | 133 | 2.495 | 12.382 | 1.838 | 9.427 | 1.687- | 8.028 | .085 | 14.0 | 9.512 | 07.927 | 1.158 | 460 |
| 500 | 09 | 257 | 9.770 | 18.827 | 9.519- | 14.632 | 2.199- | 11.847 | .137 | 16.5 | 14.870 | 11.546 | 1.248 | 516 |
| 300 | 12 | 272 | 40.654 | 32.955 | 40.619- | 26.361 | 1.688 | 19.777 | .227 | 19.0 | 27.122 | 18.720 | 1.507 | 481 |
| 300 | 03 | 275 | 40.415 | 29.268 | 40.280- | 22.813 | 3.297 | 18.336 | .145 | 16.5 | 23.209 | 17.832 | 1.478 | 460 |
| 300 | 06 | 038 | 3.930 | 19.954 | 2.422 | 15.415 | 3.096 | 12.670 | .136 | 17.5 | 15.682 | 12.338 | 1.162 | 459 |
| 300 | 09 | 268 | 21.738 | 29.935 | 21.722- | 23.623 | 0.842- | 18.386 | .217 | 20.5 | 24.351 | 17.411 | 1.323 | 516 |
| 200 | 12 | 271 | 55.788 | 37.077 | 55.778- | 29.825 | 1.026 | 22.026 | .191 | 16.0 | 30.422 | 21.194 | 1.612 | 482 |
| 200 | 03 | 274 | 56.758 | 36.538 | 56.600- | 27.790 | 4.239 | 23.723 | .077 | 13.0 | 28.004 | 23.471 | 1.459 | 461 |
| 200 | 06 | 032 | 9.103 | 28.530 | 4.768 | 22.641 | 7.754 | 17.358 | .181 | 17.0 | 23.118 | 16.717 | 1.171 | 460 |
| 200 | 09 | 273 | 29.932 | 37.965 | 29.877- | 29.789 | 1.817 | 23.537 | .375 | 29.0 | 32.127 | 20.230 | 1.297 | 517 |

## Montgomery, Ala., (Maxwell AFB), U.S.A.

| P | J | $\bar{\theta}$ | $\overline{\|V\|}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 261 | 12.360 | 18.990 | 12.217- | 11.324 | 1.875- | 15.244 | .030- | 93.0 | 15.253 | 11.312 | 1.174 | 446 |
| 850 | 03 | 269 | 9.312 | 18.998 | 9.311- | 12.060 | 0.107- | 14.680 | .056- | 98.0 | 14.728 | 12.002 | 1.209 | 450 |
| 850 | 06 | 275 | 3.696 | 12.570 | 3.678- | 9.490 | 0.354 | 8.242 | .003- | 179.0 | 9.490 | 08.242 | 1.216 | 428 |
| 850 | 09 | 274 | 2.664 | 17.361 | 2.659- | 12.621 | 0.167 | 11.922 | .094- | 150.5 | 12.937 | 11.578 | 1.180 | 474 |
| 700 | 12 | 266 | 24.103 | 20.881 | 24.037- | 13.553 | 1.801- | 15.885 | .054 | 80.5 | 15.946 | 13.481 | 1.256 | 483 |
| 700 | 03 | 274 | 17.910 | 21.752 | 17.875- | 15.663 | 1.131 | 15.094 | .030 | 19.5 | 15.745 | 15.009 | 1.336 | 460 |
| 700 | 06 | 275 | 4.081 | 14.705 | 4.066- | 11.276 | 0.350 | 9.439 | .056 | 9.0 | 11.317 | 09.390 | 1.235 | 460 |
| 700 | 09 | 272 | 8.071 | 20.575 | 8.068- | 15.407 | 0.227 | 13.637 | .021 | 5.0 | 15.420 | 13.623 | 1.246 | 516 |
| 500 | 12 | 267 | 40.937 | 30.369 | 40.874- | 20.496 | 2.277- | 22.410 | .055 | 74.0 | 22.574 | 20.315 | 1.342 | 481 |
| 500 | 03 | 073 | 31.383 | 29.903 | 31.352- | 23.415 | 1.377 | 18.599 | .182 | 19.0 | 23.993 | 17.847 | 1.526 | 459 |
| 500 | 06 | 287 | 4.090 | 16.242 | 3.912- | 12.773 | 1.195 | 10.032 | .007 | 1.0 | 12.774 | 10.031 | 1.217 | 460 |
| 500 | 09 | 269 | 18.678 | 26.483 | 18.674- | 20.556 | 0.388- | 16.699 | .025- | 176.5 | 20.569 | 16.683 | 1.358 | 516 |
| 300 | 12 | 266 | 65.489 | 40.573 | 65.343- | 29.169 | 4.355- | 28.203 | .237 | 41.0 | 31.939 | 25.023 | 1.404 | 481 |
| 300 | 03 | 271 | 47.681 | 41.057 | 47.665- | 31.752 | 1.230 | 26.029 | .199 | 22.5 | 32.804 | 24.690 | 1.545 | 459 |
| 300 | 06 | 302 | 5.812 | 24.692 | 4.919- | 18.467 | 3.096 | 16.391 | .090 | 18.5 | 18.712 | 16.111 | 1.211 | 459 |
| 300 | 09 | 266 | 35.812 | 41.117 | 35.735- | 31.391 | 2.351- | 26.557 | .123 | 18.0 | 31.921 | 25.917 | 1.378 | 516 |
| 200 | 12 | 264 | 79.193 | 44.210 | 78.821- | 30.777 | 7.668- | 31.739 | .172 | 50.0 | 33.882 | 28.401 | 1.354 | 483 |
| 200 | 03 | 270 | 62.431 | 45.111 | 62.431- | 35.369 | 0.228 | 28.001 | .272 | 24.5 | 37.068 | 25.709 | 1.517 | 460 |
| 200 | 06 | 303 | 8.164 | 29.957 | 6.843- | 22.726 | 4.452 | 19.517 | .059 | 10.5 | 22.836 | 19.389 | 1.213 | 479 |
| 200 | 09 | 266 | 49.340 | 42.877 | 49.188- | 33.726 | 3.877- | 26.477 | .160 | 16.5 | 34.352 | 25.659 | 1.413 | 519 |

## Mt. Clemens, Mich. (Selfridge AFB), U.S.A.

| P | J | $\bar{\theta}$ | $\|\bar{V}\|$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 266 | 16.569 | 21.808 | 16.537- | 15.490 | 1.020- | 15.350 | .073 | 41.5 | 15.980 | 14.839 | 1.209 | 422 |
| 850 | 03 | 276 | 10.701 | 22.950 | 10.641- | 16.777 | 1.132 | 15.659 | .161 | 33.5 | 17.591 | 14.739 | 1.205 | 441 |
| 850 | 06 | 275 | 8.945 | 15.535 | 8.916- | 11.466 | 0.729 | 10.482 | .232 | 34.5 | 12.275 | 09.522 | 1.241 | 424 |
| 850 | 09 | 261 | 10.888 | 18.715 | 10.761- | 13.270 | 1.660- | 13.197 | .016 | 35.5 | 13.346 | 13.120 | 1.177 | 481 |
| 700 | 12 | 272 | 29.237 | 24.603 | 29.224- | 16.805 | 0.858 | 17.970 | .087 | 63.5 | 18.332 | 16.409 | 1.288 | 481 |
| 700 | 03 | 274 | 20.195 | 27.535 | 20.139- | 19.553 | 1.497 | 19.386 | .152 | 43.5 | 20.900 | 17.926 | 1.260 | 460 |
| 700 | 06 | 275 | 15.780 | 18.965 | 15.717- | 13.813 | 1.418 | 12.996 | .049 | 19.5 | 13.926 | 12.875 | 1.278 | 460 |
| 700 | 09 | 265 | 17.735 | 22.710 | 17.679- | 16.237 | 1.407- | 15.877 | .035 | 29.0 | 16.391 | 15.718 | 1.194 | 515 |
| 500 | 12 | 272 | 46.728 | 36.567 | 46.710- | 26.124 | 1.303 | 25.586 | .122 | 40.0 | 27.410 | 24.204 | 1.335 | 483 |
| 500 | 03 | 277 | 29.153 | 33.969 | 28.953- | 23.581 | 3.412 | 24.450 | .133 | 52.5 | 25.629 | 22.294 | 1.240 | 460 |
| 500 | 06 | 277 | 22.828 | 21.491 | 22.664- | 15.717 | 2.727 | 14.658 | .107 | 28.5 | 16.140 | 14.191 | 1.276 | 459 |
| 500 | 09 | 268 | 28.124 | 33.530 | 28.110- | 24.130 | 0.917- | 23.283 | .086 | 34.0 | 24.794 | 22.575 | 1.283 | 516 |
| 300 | 12 | 269 | 68.541 | 35.365 | 68.532- | 32.041 | 1.077- | 33.829 | .137 | 55.5 | 35.301 | 30.411 | 1.317 | 483 |
| 300 | 03 | 274 | 43.532 | 46.453 | 43.446- | 31.887 | 2.732 | 33.780 | .165 | 54.5 | 35.604 | 29.837 | 1.262 | 461 |
| 300 | 06 | 279 | 35.064 | 33.077 | 34.668- | 24.496 | 5.258 | 22.228 | .157 | 29.0 | 25.452 | 21.127 | 1.304 | 460 |
| 300 | 09 | 268 | 44.553 | 47.540 | 44.511- | 34.508 | 1.925- | 32.699 | .180 | 36.5 | 36.635 | 30.297 | 1.342 | 517 |
| 200 | 12 | 269 | 67.530 | 40.796 | 67.517- | 27.750 | 1.364- | 29.903 | .188 | 56.0 | 31.629 | 25.765 | 1.341 | 482 |
| 200 | 03 | 273 | 46.059 | 42.130 | 46.008- | 28.757 | 2.170 | 30.790 | .180 | 55.5 | 32.531 | 26.772 | 1.271 | 459 |
| 200 | 06 | 279 | 41.323 | 38.914 | 40.838- | 28.357 | 6.315 | 26.650 | .192 | 36.0 | 30.164 | 24.586 | 1.347 | 479 |
| 200 | 09 | 269 | 47.150 | 43.660 | 47.136- | 31.673 | 1.173- | 30.050 | .204 | 38.0 | 33.972 | 27.424 | 1.303 | 516 |

## Nantucket, Mass., U.S.A.

| P | J | $\bar{\theta}$ | $\|\bar{V}\|$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 276 | 17.357 | 21.328 | 17.277- | 14.505 | 1.670 | 15.636 | .116 | 61.5 | 16.089 | 14.001 | 1.193 | 426 |
| 850 | 03 | 274 | 11.856 | 20.580 | 11.830- | 14.073 | 0.783 | 15.016 | .188 | 54.5 | 15.936 | 13.023 | 1.138 | 423 |
| 850 | 06 | 268 | 10.412 | 15.325 | 10.408- | 10.990 | 0.299- | 10.681 | .198 | 41.0 | 11.871 | 09.693 | 1.208 | 433 |
| 850 | 09 | 269 | 10.232 | 19.298 | 10.230- | 13.543 | 0.167- | 13.748 | .212 | 47.0 | 15.029 | 12.106 | 1.176 | 470 |
| 700 | 12 | 269 | 31.641 | 26.058 | 31.630- | 17.882 | 0.810- | 18.955 | .117 | 58.0 | 19.592 | 17.182 | 1.213 | 483 |
| 700 | 03 | 271 | 22.156 | 24.897 | 22.154- | 17.324 | 0.297 | 17.882 | .071 | 57.0 | 18.278 | 16.906 | 1.206 | 460 |
| 700 | 06 | 274 | 17.117 | 17.555 | 17.078- | 13.080 | 1.138 | 11.708 | .116 | 23.0 | 13.367 | 11.379 | 1.315 | 460 |
| 700 | 09 | 264 | 19.327 | 24.472 | 19.224- | 17.001 | 1.988- | 17.603 | .144 | 52.0 | 18.545 | 15.968 | 1.228 | 516 |
| 500 | 12 | 267 | 49.656 | 39.383 | 49.586- | 26.293 | 2.626- | 29.320 | .042 | 79.5 | 29.426 | 26.174 | 1.255 | 483 |
| 500 | 03 | 271 | 35.096 | 34.357 | 35.094- | 23.960 | 0.370 | 24.623 | .060 | 57.0 | 25.088 | 23.472 | 1.253 | 460 |
| 500 | 06 | 269 | 26.120 | 21.524 | 26.118- | 15.912 | 0.329- | 14.495 | .171 | 30.5 | 16.636 | 13.658 | 1.324 | 462 |
| 500 | 09 | 260 | 31.787 | 34.866 | 31.263- | 24.370 | 5.750- | 24.935 | .221 | 48.0 | 27.255 | 21.744 | 1.302 | 515 |
| 300 | 12 | 267 | 71.921 | 54.047 | 71.789- | 35.815 | 4.363- | 40.477 | .067 | 75.5 | 40.789 | 35.459 | 1.270 | 483 |
| 300 | 03 | 269 | 50.612 | 49.023 | 50.597- | 31.382 | 1.242- | 37.663 | .056 | 81.5 | 37.794 | 31.224 | 1.227 | 460 |
| 300 | 06 | 266 | 37.112 | 35.156 | 37.012- | 22.697 | 2.723- | 26.847 | .193 | 65.5 | 27.824 | 21.488 | 1.249 | 458 |
| 300 | 09 | 259 | 48.766 | 47.786 | 47.789- | 32.230 | 9.715- | 35.281 | .273 | 54.0 | 38.338 | 28.526 | 1.322 | 517 |
| 200 | 12 | 265 | 74.126 | 46.359 | 73.858- | 31.240 | 6.294- | 34.253 | .109 | 65.0 | 35.045 | 30.349 | 1.279 | 484 |
| 200 | 03 | 268 | 52.767 | 44.063 | 52.739- | 28.332 | 1.716- | 33.747 | .043 | 83.0 | 33.823 | 28.241 | 1.256 | 459 |
| 200 | 06 | 270 | 40.458 | 40.481 | 40.457- | 25.815 | 0.274 | 31.182 | .227 | 65.0 | 32.523 | 24.104 | 1.266 | 460 |
| 200 | 09 | 258 | 55.579 | 46.680 | 54.375- | 30.570 | 11.509- | 35.277 | .329 | 57.0 | 38.436 | 26.490 | 1.327 | 516 |

## Nashville, Tenn., U.S.A.

| P | J | $\bar{\theta}$ | $\|\bar{V}\|$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 262 | 14.963 | 21.156 | 14.830- | 12.636 | 1.989- | 16.968 | .277 | 68.5 | 17.643 | 11.675 | 1.220 | 452 |
| 850 | 03 | 263 | 11.175 | 20.148 | 11.091- | 12.430 | 1.360- | 15.857 | .261 | 66.5 | 16.544 | 11.500 | 1.197 | 444 |
| 850 | 06 | 265 | 7.431 | 13.526 | 7.401- | 10.346 | 0.670- | 8.713 | .205 | 25.0 | 10.754 | 08.204 | 1.222 | 450 |
| 850 | 09 | 273 | 6.866 | 17.941 | 6.857- | 35.893 | 0.363 | 12.951 | .024 | 0.5 | 35.895 | 12.947 | 1.175 | 496 |
| 700 | 12 | 265 | 29.299 | 23.247 | 29.197- | 13.822 | 2.448- | 18.692 | .055 | 85.0 | 18.726 | 13.776 | 1.233 | 483 |
| 700 | 03 | 272 | 20.283 | 24.762 | 20.274- | 16.531 | 0.625 | 18.436 | .020 | 85.0 | 18.451 | 16.514 | 1.242 | 460 |
| 700 | 06 | 271 | 8.956 | 15.504 | 8.953- | 11.370 | 0.202 | 10.541 | .082 | 23.5 | 11.558 | 10.334 | 1.201 | 460 |
| 700 | 09 | 270 | 14.593 | 23.436 | 14.592- | 17.508 | 0.127- | 15.579 | .036 | 8.5 | 17.551 | 15.531 | 1.243 | 516 |
| 500 | 12 | 266 | 48.268 | 31.877 | 48.120- | 20.609 | 3.772- | 24.320 | .092 | 75.5 | 24.564 | 20.318 | 1.271 | 484 |
| 500 | 03 | 270 | 33.191 | 31.353 | 33.191- | 22.643 | 0.012- | 21.687 | .151 | 37.0 | 23.851 | 20.351 | 1.399 | 460 |
| 500 | 06 | 274 | 11.646 | 17.339 | 11.614- | 12.408 | 0.861 | 12.112 | .004- | 174.5 | 12.410 | 12.109 | 1.202 | 460 |
| 500 | 09 | 270 | 25.103 | 32.217 | 25.103- | 24.327 | 0.060- | 21.670 | .051 | 12.0 | 24.445 | 21.537 | 1.352 | 516 |
| 300 | 12 | 266 | 74.743 | 44.931 | 74.534- | 28.894 | 5.583- | 34.409 | .133 | 71.5 | 35.057 | 28.104 | 1.302 | 483 |
| 300 | 03 | 269 | 48.683 | 43.986 | 48.680- | 32.385 | 0.498- | 29.765 | .162 | 31.0 | 33.816 | 28.129 | 1.416 | 460 |
| 300 | 06 | 284 | 17.320 | 26.805 | 16.815- | 19.171 | 4.153 | 18.735 | .016 | 17.5 | 19.220 | 18.684 | 1.260 | 459 |
| 300 | 09 | 267 | 43.164 | 46.004 | 43.109- | 35.089 | 2.189- | 29.752 | .172 | 23.0 | 36.170 | 28.428 | 1.384 | 516 |
| 200 | 12 | 265 | 82.728 | 42.217 | 82.413- | 27.370 | 7.207- | 32.143 | .092 | 75.0 | 32.481 | 26.968 | 1.302 | 483 |
| 200 | 03 | 270 | 58.695 | 45.233 | 58.695- | 33.282 | 0.131- | 30.633 | .184 | 33.0 | 35.055 | 28.587 | 1.418 | 459 |
| 200 | 06 | 288 | 22.861 | 34.965 | 21.699- | 25.609 | 7.194 | 23.807 | .077 | 23.5 | 26.001 | 23.378 | 1.253 | 460 |
| 200 | 09 | 266 | 53.668 | 45.208 | 53.566- | 34.721 | 3.303- | 28.952 | .176 | 22.0 | 35.741 | 27.684 | 1.422 | 517 |

## New York, N.Y., U.S.A.

| P | J | $\bar{\theta}$ | $\|\bar{V}\|$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 284 | 16.412 | 23.874 | 15.930- | 15.171 | 3.950 | 18.433 | .026 | 86.0 | 18.447 | 15.154 | 1.200 | 409 |
| 850 | 03 | 281 | 12.130 | 21.555 | 11.908- | 14.275 | 2.310 | 16.150 | .210 | 60.0 | 16.988 | 13.267 | 1.194 | 391 |
| 850 | 06 | 275 | 7.835 | 15.157 | 7.803- | 10.343 | 0.702 | 11.080 | .149 | 57.5 | 11.566 | 09.796 | 1.188 | 425 |
| 850 | 09 | 275 | 10.383 | 19.569 | 10.335- | 13.687 | 0.995 | 13.986 | .112 | 50.5 | 14.606 | 13.023 | 1.216 | 464 |
| 700 | 12 | 270 | 32.477 | 26.690 | 32.477- | 16.660 | 0.131- | 20.851 | .170 | 71.5 | 21.320 | 16.055 | 1.229 | 483 |
| 700 | 03 | 275 | 22.879 | 25.422 | 22.797- | 17.342 | 1.945 | 18.589 | .134 | 58.5 | 19.285 | 16.564 | 1.217 | 459 |
| 700 | 06 | 278 | 16.999 | 17.817 | 16.845- | 13.294 | 2.282 | 11.863 | .110 | 22.0 | 13.557 | 11.561 | 1.260 | 460 |
| 700 | 09 | 266 | 19.745 | 23.994 | 19.692- | 17.351 | 1.450- | 16.572 | .183 | 38.0 | 18.501 | 15.277 | 1.233 | 516 |
| 500 | 12 | 267 | 50.176 | 38.058 | 50.124- | 24.275 | 2.263- | 29.311 | .096 | 76.5 | 29.590 | 23.934 | 1.268 | 483 |
| 500 | 03 | 272 | 34.770 | 34.093 | 34.742- | 22.521 | 1.402 | 25.596 | .072 | 75.5 | 25.809 | 22.277 | 1.254 | 460 |
| 500 | 06 | 275 | 23.511 | 20.317 | 23.419- | 14.952 | 2.083 | 13.757 | .177 | 32.5 | 15.711 | 12.883 | 1.269 | 457 |
| 500 | 09 | 260 | 30.487 | 32.765 | 29.981- | 23.515 | 5.534- | 22.817 | .260 | 41.5 | 26.026 | 19.905 | 1.339 | 515 |
| 300 | 12 | 268 | 72.542 | 51.625 | 72.494- | 33.076 | 2.637- | 39.637 | .069 | 79.5 | 39.847 | 32.823 | 1.254 | 482 |
| 300 | 03 | 274 | 48.818 | 45.751 | 48.725- | 29.885 | 3.006 | 34.642 | .047 | 81.0 | 34.753 | 29.756 | 1.224 | 459 |
| 300 | 06 | 269 | 35.906 | 35.408 | 35.900- | 25.076 | 0.650- | 24.998 | .170 | 44.5 | 27.091 | 22.799 | 1.304 | 459 |
| 300 | 09 | 261 | 47.180 | 45.701 | 46.541- | 32.167 | 7.742- | 32.463 | .229 | 46.0 | 35.835 | 28.363 | 1.315 | 516 |
| 200 | 12 | 267 | 74.481 | 46.817 | 74.363- | 29.663 | 4.182- | 36.219 | .023 | 86.5 | 36.239 | 29.639 | 1.229 | 483 |
| 200 | 03 | 272 | 52.992 | 43.887 | 52.963- | 30.113 | 1.743 | 31.926 | .087 | 62.0 | 32.625 | 29.355 | 1.248 | 460 |
| 200 | 06 | 275 | 41.606 | 37.610 | 41.473- | 25.667 | 3.323 | 27.490 | .274 | 52.0 | 30.118 | 22.525 | 1.284 | 459 |
| 200 | 09 | 260 | 54.610 | 44.965 | 53.734- | 30.750 | 9.744- | 32.807 | .232 | 53.0 | 35.416 | 27.706 | 1.308 | 514 |

## Norfolk, Va., U.S.A.

| P | J | $\bar{\theta}$ | $\bar{\|V\|}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 267 | 16.772 | 20.873 | 16.747- | 12.941 | 0.922- | 16.376 | .314 | 63.5 | 17.362 | 11.586 | 1.214 | 343 |
| 850 | 03 | 274 | 12.852 | 18.443 | 12.816- | 11.613 | 0.967 | 14.327 | .165 | 71.0 | 14.663 | 11.187 | 1.194 | 350 |
| 850 | 06 | 274 | 6.426 | 14.274 | 6.411- | 11.341 | 0.444 | 8.668 | .230 | 20.0 | 11.701 | 08.175 | 1.221 | 352 |
| 850 | 09 | 270 | 8.378 | 17.498 | 8.378- | 12.526 | 0.017 | 12.218 | .192 | 41.5 | 13.519 | 11.110 | 1.228 | 331 |
| 700 | 12 | 268 | 29.792 | 22.644 | 29.771- | 14.137 | 1.132- | 17.688 | .057 | 83.0 | 17.735 | 14.078 | 1.242 | 451 |
| 700 | 03 | 276 | 23.236 | 22.285 | 23.114- | 15.219 | 2.378 | 16.280 | .119 | 60.0 | 16.793 | 14.650 | 1.248 | 460 |
| 700 | 06 | 282 | 11.454 | 15.250 | 11.222- | 11.601 | 2.295 | 9.899 | .093 | 15.5 | 11.728 | 09.748 | 1.179 | 460 |
| 700 | 09 | 266 | 15.632 | 21.417 | 15.593- | 16.121 | 1.104- | 14.100 | .114 | 20.0 | 16.415 | 13.758 | 1.258 | 455 |
| 500 | 12 | 268 | 48.762 | 31.990 | 48.720- | 20.380 | 2.011- | 24.658 | .024 | 86.5 | 24.685 | 20.348 | 1.273 | 451 |
| 500 | 03 | 275 | 36.229 | 29.532 | 36.114- | 21.257 | 2.893 | 20.501 | .127 | 37.0 | 22.213 | 19.461 | 1.310 | 460 |
| 500 | 06 | 276 | 16.501 | 18.379 | 16.397- | 14.040 | 1.854 | 11.860 | .036 | 6.0 | 14.059 | 11.838 | 1.247 | 460 |
| 500 | 09 | 264 | 27.323 | 29.185 | 27.150- | 21.191 | 3.068- | 20.068 | .170 | 36.0 | 22.404 | 18.704 | 1.348 | 455 |
| 300 | 12 | 268 | 67.691 | 42.475 | 67.658- | 27.751 | 2.090- | 32.156 | .052 | 80.0 | 32.291 | 27.593 | 1.306 | 451 |
| 300 | 03 | 275 | 53.273 | 43.727 | 53.090- | 30.971 | 4.419 | 30.867 | .128 | 44.5 | 32.821 | 28.894 | 1.280 | 429 |
| 300 | 06 | 282 | 22.434 | 28.102 | 21.909- | 20.352 | 4.826 | 19.377 | .112 | 33.5 | 21.070 | 18.594 | 1.255 | 368 |
| 300 | 09 | 260 | 45.356 | 39.691 | 44.720- | 28.184 | 7.565- | 27.947 | .242 | 44.0 | 31.291 | 24.418 | 1.328 | 364 |
| 200 | 12 | 269 | 76.416 | 39.454 | 76.393- | 25.908 | 1.908- | 29.755 | .061 | 78.0 | 29.933 | 25.702 | 1.308 | 451 |
| 200 | 03 | 276 | 59.787 | 44.355 | 59.506- | 32.339 | 5.790 | 30.358 | .154 | 34.0 | 33.880 | 28.627 | 1.297 | 429 |
| 200 | 06 | 286 | 26.344 | 32.977 | 25.290- | 24.351 | 7.377 | 22.238 | .120 | 26.5 | 25.025 | 21.476 | 1.233 | 368 |
| 200 | 09 | 264 | 53.058 | 43.027 | 52.768- | 30.287 | 5.538- | 30.561 | .289 | 46.0 | 34.556 | 25.636 | 1.340 | 364 |

## Oakland, Calif., U.S.A.

| P | J | $\bar{\theta}$ | $\bar{\|V\|}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 275 | 7.963 | 17.503 | 7.937- | 10.092 | 0.657 | 14.300 | .058 | 85.5 | 14.324 | 10.058 | 1.186 | 391 |
| 850 | 03 | 297 | 6.273 | 14.782 | 5.592- | 8.980 | 2.843 | 11.741 | .137 | 76.5 | 11.888 | 08.785 | 1.164 | 454 |
| 850 | 06 | 270 | 4.964 | 10.156 | 4.964- | 6.870 | 0.008 | 7.480 | .102- | 115.0 | 7.645 | 06.686 | 1.191 | 459 |
| 850 | 09 | 318 | 3.103 | 14.688 | 2.092- | 8.705 | 2.291 | 11.830 | .261 | 70.0 | 12.237 | 08.124 | 1.193 | 469 |
| 700 | 12 | 289 | 15.095 | 24.637 | 14.250- | 15.469 | 4.977 | 19.175 | .091 | 78.5 | 19.318 | 15.290 | 1.162 | 451 |
| 700 | 03 | 297 | 9.137 | 20.625 | 8.172- | 12.622 | 4.087 | 16.312 | .007 | 89.0 | 16.313 | 12.621 | 1.209 | 460 |
| 700 | 06 | 239 | 4.332 | 12.756 | 3.716- | 7.957 | 2.227- | 9.970 | .142- | 106.0 | 10.132 | 07.750 | 1.222 | 460 |
| 700 | 09 | 272 | 5.764 | 20.375 | 5.763- | 12.958 | 0.159 | 15.723 | .055 | 82.0 | 15.774 | 12.896 | 1.212 | 456 |
| 500 | 12 | 290 | 26.848 | 35.522 | 25.270- | 23.063 | 9.066 | 27.017 | .180 | 65.5 | 27.944 | 21.930 | 1.159 | 451 |
| 500 | 03 | 289 | 19.623 | 30.581 | 18.607- | 20.890 | 6.230 | 22.334 | .052- | 109.0 | 22.520 | 20.689 | 1.214 | 460 |
| 500 | 06 | 253 | 11.282 | 20.828 | 10.782- | 14.243 | 3.320- | 15.197 | .010- | 94.5 | 15.203 | 14.237 | 1.248 | 460 |
| 500 | 09 | 273 | 14.652 | 29.643 | 14.630- | 20.018 | 0.821 | 21.863 | .002- | 91.0 | 21.864 | 20.017 | 1.238 | 455 |
| 300 | 12 | 285 | 41.354 | 46.523 | 39.857- | 32.930 | 11.026 | 32.863 | .268 | 45.0 | 37.056 | 28.128 | 1.157 | 420 |
| 300 | 03 | 283 | 30.732 | 41.475 | 29.929- | 28.858 | 6.983 | 29.789 | .157 | 50.5 | 31.593 | 26.871 | 1.196 | 429 |
| 300 | 06 | 255 | 19.123 | 33.048 | 18.464- | 22.661 | 4.978- | 24.055 | .214 | 53.0 | 25.840 | 20.602 | 1.216 | 368 |
| 300 | 09 | 268 | 23.407 | 39.337 | 23.394- | 27.071 | 0.790- | 28.539 | .169 | 53.5 | 30.176 | 25.233 | 1.227 | 364 |
| 200 | 12 | 284 | 46.011 | 41.523 | 44.594- | 28.418 | 11.331 | 30.276 | .311 | 50.5 | 33.699 | 24.261 | 1.177 | 450 |
| 200 | 03 | 283 | 34.468 | 39.389 | 33.629- | 27.380 | 7.561 | 28.317 | .140 | 51.5 | 29.794 | 25.765 | 1.202 | 429 |
| 200 | 06 | 249 | 27.844 | 34.054 | 25.946- | 23.117 | 10.104- | 25.006 | .212 | 55.0 | 26.664 | 21.183 | 1.226 | 367 |
| 200 | 09 | 266 | 30.146 | 36.148 | 30.074- | 24.470 | 2.090- | 26.607 | .173 | 58.0 | 27.912 | 22.970 | 1.236 | 364 |

## Ogden, Utah, (Hill AFB), U.S.A.

| P | J | $\bar{\theta}$ | $\bar{\|V\|}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 149 | 4.269 | 10.753 | 2.202 | 5.402 | 3.657- | 9.297 | .001 | 90.0 | 9.297 | 05.402 | 1.387 | 407 |
| 850 | 03 | 133 | 3.202 | 11.083 | 2.344 | 5.881 | 2.180- | 9.395 | .033- | 92.0 | 9.398 | 05.876 | 1.332 | 373 |
| 850 | 06 | 139 | 6.840 | 9.804 | 4.483 | 5.248 | 5.166- | 8.282 | .062 | 86.0 | 8.293 | 05.231 | 1.346 | 412 |
| 850 | 09 | 129 | 4.714 | 9.104 | 3.655 | 4.944 | 2.977- | 7.644 | .012- | 91.0 | 7.644 | 04.943 | 1.317 | 448 |
| 700 | 12 | 275 | 13.604 | 17.331 | 13.562- | 12.104 | 1.077 | 12.403 | .124 | 50.5 | 13.011 | 11.448 | 1.207 | 483 |
| 700 | 03 | 263 | 7.563 | 16.183 | 7.512- | 10.376 | 0.877- | 12.419 | .028- | 94.5 | 12.431 | 10.362 | 1.176 | 460 |
| 700 | 06 | 233 | 9.200 | 12.177 | 7.394- | 7.363 | 5.475- | 9.697 | .058 | 84.0 | 9.720 | 07.333 | 1.311 | 460 |
| 700 | 09 | 265 | 9.693 | 15.743 | 9.650- | 10.750 | 0.904- | 11.501 | .005 | 87.5 | 11.502 | 10.749 | 1.271 | 516 |
| 500 | 12 | 284 | 27.289 | 31.917 | 26.517- | 21.983 | 6.445 | 23.138 | .176 | 53.0 | 24.548 | 20.397 | 1.203 | 483 |
| 500 | 03 | 277 | 18.008 | 29.643 | 17.882- | 18.754 | 2.130 | 22.957 | .105 | 76.5 | 23.196 | 18.458 | 1.215 | 459 |
| 500 | 06 | 247 | 19.299 | 20.308 | 17.824- | 13.662 | 7.400- | 15.025 | .109 | 65.5 | 15.364 | 13.279 | 1.260 | 460 |
| 500 | 09 | 277 | 20.073 | 28.578 | 19.909- | 18.381 | 2.565 | 21.883 | .089 | 76.5 | 22.082 | 18.142 | 1.240 | 516 |
| 300 | 12 | 279 | 42.630 | 49.218 | 42.110- | 33.844 | 6.630 | 35.736 | .221 | 52.0 | 38.570 | 30.575 | 1.198 | 485 |
| 300 | 03 | 276 | 29.323 | 45.133 | 29.177- | 29.439 | 2.921 | 34.210 | .088 | 75.0 | 34.562 | 29.025 | 1.197 | 460 |
| 300 | 06 | 250 | 32.134 | 30.153 | 30.285- | 19.924 | 10.743- | 22.632 | .173 | 63.0 | 23.489 | 18.906 | 1.250 | 458 |
| 300 | 09 | 279 | 31.315 | 43.077 | 30.942- | 28.309 | 4.821 | 32.470 | .054 | 79.0 | 32.619 | 28.137 | 1.237 | 517 |
| 200 | 12 | 279 | 47.628 | 45.676 | 47.061- | 31.038 | 7.325 | 33.510 | .117 | 61.5 | 34.480 | 29.957 | 1.268 | 482 |
| 200 | 03 | 273 | 33.217 | 42.358 | 33.167- | 28.260 | 1.816 | 31.553 | .078 | 72.5 | 31.905 | 27.861 | 1.224 | 460 |
| 200 | 06 | 252 | 42.071 | 35.887 | 40.044- | 22.897 | 12.900- | 27.634 | .252 | 63.5 | 29.042 | 21.082 | 1.238 | 458 |
| 200 | 09 | 279 | 39.546 | 42.544 | 39.058- | 27.723 | 6.193 | 32.271 | .046 | 81.5 | 32.369 | 27.609 | 1.257 | 518 |

## Oklahoma City, Okla., U.S.A.

| P | J | $\bar{\theta}$ | $\bar{\|V\|}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 261 | 10.011 | 22.160 | 9.885- | 13.380 | 1.586- | 17.664 | .345 | 64.5 | 18.731 | 11.839 | 1.149 | 437 |
| 850 | 03 | 248 | 9.133 | 22.570 | 8.476- | 12.810 | 3.403- | 18.583 | .297 | 71.0 | 19.226 | 11.823 | 1.156 | 417 |
| 850 | 06 | 230 | 10.672 | 15.758 | 8.197- | 10.403 | 6.831- | 11.836 | .439 | 53.0 | 13.436 | 08.233 | 1.241 | 456 |
| 850 | 09 | 250 | 7.130 | 19.537 | 6.693- | 10.677 | 2.457- | 16.361 | .383 | 69.5 | 17.112 | 09.426 | 1.163 | 503 |
| 700 | 12 | 261 | 24.074 | 22.684 | 23.750- | 13.994 | 3.934- | 17.853 | .293 | 65.0 | 18.787 | 12.712 | 1.221 | 482 |
| 700 | 03 | 261 | 18.378 | 21.570 | 18.159- | 13.691 | 2.827- | 16.669 | .077 | 79.5 | 16.769 | 13.568 | 1.219 | 458 |
| 700 | 06 | 245 | 6.648 | 15.520 | 6.044- | 10.240 | 2.767- | 11.663 | .176 | 63.5 | 12.108 | 09.709 | 1.194 | 460 |
| 700 | 09 | 269 | 11.343 | 20.428 | 11.342- | 13.127 | 0.153- | 15.651 | .128 | 72.0 | 15.921 | 12.798 | 1.202 | 516 |
| 500 | 12 | 261 | 41.043 | 33.240 | 40.566- | 21.134 | 6.238- | 25.657 | .291 | 62.0 | 27.256 | 19.027 | 1.271 | 483 |
| 500 | 03 | 264 | 31.243 | 29.361 | 31.081- | 19.646 | 3.176- | 21.820 | .157 | 62.0 | 22.629 | 18.708 | 1.333 | 460 |
| 500 | 06 | 271 | 9.890 | 17.834 | 9.888- | 13.150 | 0.207 | 12.047 | .134 | 28.5 | 13.583 | 11.557 | 1.197 | 460 |
| 500 | 09 | 276 | 21.366 | 29.065 | 21.258- | 20.839 | 2.144 | 20.262 | .209 | 41.0 | 22.619 | 18.253 | 1.289 | 515 |
| 300 | 12 | 260 | 62.631 | 47.916 | 61.725- | 30.089 | 10.614- | 37.290 | .271 | 64.5 | 39.204 | 27.549 | 1.248 | 483 |
| 300 | 03 | 263 | 46.394 | 41.123 | 46.051- | 28.249 | 5.624- | 29.885 | .154 | 55.0 | 31.374 | 26.586 | 1.331 | 460 |
| 300 | 06 | 283 | 15.290 | 25.018 | 14.905- | 17.972 | 3.411 | 17.404 | .156 | 39.0 | 19.046 | 16.221 | 1.207 | 459 |
| 300 | 09 | 274 | 36.366 | 42.343 | 36.260- | 31.174 | 2.773 | 28.654 | .294 | 37.0 | 34.210 | 24.951 | 1.344 | 517 |
| 200 | 12 | 263 | 73.207 | 45.603 | 72.618- | 28.403 | 9.265- | 35.678 | .256 | 66.0 | 37.270 | 26.279 | 1.290 | 483 |
| 200 | 03 | 263 | 56.163 | 41.069 | 55.748- | 28.826 | 6.810- | 29.252 | .115 | 48.5 | 30.681 | 27.300 | 1.371 | 460 |
| 200 | 06 | 277 | 20.134 | 31.363 | 19.997- | 22.274 | 2.342 | 22.080 | .175 | 43.5 | 24.043 | 20.139 | 1.237 | 459 |
| 200 | 09 | 274 | 46.792 | 44.436 | 46.688- | 32.897 | 3.130 | 29.871 | .296 | 36.0 | 35.971 | 26.088 | 1.415 | 517 |

## Omaha, Nebr., U.S.A.

| P | J | $\bar{\theta}$ | $\overline{\|V\|}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 280 | 12.848 | 22.232 | 12.671- | 12.287 | 2.123 | 18.529 | .050 | 86.5 | 18.547 | 12.260 | 1.196 | 317 |
| 850 | 03 | 273 | 7.115 | 23.559 | 7.102- | 13.197 | 0.433 | 19.517 | .014- | 91.0 | 19.519 | 13.194 | 1.163 | 313 |
| 850 | 06 | 242 | 6.844 | 17.543 | 6.063- | 10.699 | 3.176- | 13.903 | .223 | 70.0 | 14.332 | 10.118 | 1.210 | 383 |
| 850 | 09 | 280 | 10.296 | 21.526 | 10.123- | 11.320 | 1.876 | 18.310 | .042- | 92.5 | 18.320 | 11.304 | 1.181 | 423 |
| 700 | 12 | 279 | 23.469 | 23.423 | 23.199- | 14.452 | 3.550 | 18.433 | .006- | 91.0 | 18.434 | 14.451 | 1.191 | 483 |
| 700 | 03 | 274 | 15.126 | 24.478 | 15.097- | 14.461 | 0.928 | 19.750 | .143- | 102.0 | 19.972 | 14.153 | 1.157 | 461 |
| 700 | 06 | 270 | 12.602 | 17.520 | 12.602- | 11.067 | 0.068 | 13.583 | .031- | 94.5 | 13.597 | 11.050 | 1.243 | 461 |
| 700 | 09 | 282 | 17.170 | 22.860 | 16.824- | 13.573 | 3.424 | 18.395 | .133- | 101.5 | 18.581 | 13.317 | 1.200 | 516 |
| 500 | 12 | 274 | 39.223 | 35.422 | 39.123- | 22.115 | 2.805 | 27.670 | .098 | 78.0 | 27.896 | 21.829 | 1.230 | 482 |
| 500 | 03 | 274 | 25.382 | 32.210 | 25.331- | 21.183 | 1.595 | 24.264 | .074- | 104.5 | 24.467 | 20.948 | 1.222 | 460 |
| 500 | 06 | 276 | 19.973 | 19.179 | 19.852- | 13.437 | 2.190 | 13.684 | .012 | 72.5 | 13.711 | 13.410 | 1.288 | 460 |
| 500 | 09 | 282 | 27.565 | 32.526 | 26.914- | 20.560 | 5.957 | 25.203 | .054 | 82.5 | 25.277 | 20.469 | 1.264 | 516 |
| 300 | 12 | 270 | 58.548 | 47.878 | 58.547- | 30.581 | 0.386 | 36.839 | .215 | 65.5 | 38.313 | 28.713 | 1.206 | 480 |
| 300 | 03 | 270 | 38.624 | 43.297 | 38.623- | 28.725 | 0.347- | 32.395 | .032- | 97.5 | 32.457 | 28.655 | 1.226 | 460 |
| 300 | 06 | 274 | 32.730 | 27.530 | 32.653- | 19.790 | 2.237 | 19.138 | .085 | 34.5 | 20.338 | 18.555 | 1.285 | 458 |
| 300 | 09 | 281 | 41.085 | 42.703 | 40.291- | 28.325 | 8.039 | 31.957 | .122 | 67.5 | 32.675 | 27.494 | 1.247 | 514 |
| 200 | 12 | 268 | 63.405 | 44.750 | 63.376- | 28.460 | 1.923- | 34.533 | .180 | 68.5 | 35.529 | 27.207 | 1.250 | 481 |
| 200 | 03 | 266 | 43.109 | 39.047 | 42.990- | 25.438 | 3.187- | 29.623 | .028 | 84.5 | 29.656 | 25.399 | 1.242 | 460 |
| 200 | 06 | 271 | 41.314 | 33.143 | 41.310- | 23.560 | 0.526 | 23.310 | .122 | 42.5 | 24.830 | 21.953 | 1.291 | 458 |
| 200 | 09 | 275 | 46.224 | 44.419 | 46.057- | 29.701 | 3.920 | 33.029 | .148 | 63.0 | 34.143 | 28.413 | 1.246 | 514 |

## Rantoul, Ill, (Chanute AFB), U.S.A.

| P | J | $\bar{\theta}$ | $\overline{\|V\|}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 267 | 13.842 | 20.330 | 13.817- | 13.486 | 0.837- | 15.213 | .098 | 70.5 | 15.450 | 13.214 | 1.170 | 416 |
| 850 | 03 | 273 | 9.670 | 20.381 | 9.659- | 13.656 | 0.470 | 15.130 | .115 | 66.0 | 15.482 | 13.256 | 1.182 | 406 |
| 850 | 06 | 269 | 7.463 | 14.944 | 7.463- | 11.080 | 0.105- | 10.028 | .118 | 25.0 | 11.352 | 09.719 | 1.220 | 440 |
| 850 | 09 | 269 | 10.059 | 19.055 | 10.057- | 13.477 | 0.197- | 13.470 | .104 | 45.0 | 14.162 | 12.748 | 1.163 | 447 |
| 700 | 12 | 268 | 26.674 | 24.130 | 26.661- | 15.810 | 0.827- | 18.304 | .141 | 68.0 | 18.747 | 15.282 | 1.197 | 482 |
| 700 | 03 | 274 | 17.326 | 24.083 | 17.292- | 16.141 | 1.080 | 17.873 | .142 | 63.0 | 18.457 | 15.470 | 1.177 | 460 |
| 700 | 06 | 274 | 12.778 | 17.651 | 12.743- | 13.166 | 0.949 | 11.757 | .085 | 18.5 | 13.332 | 11.569 | 1.231 | 460 |
| 700 | 09 | 271 | 16.853 | 23.029 | 16.849- | 16.328 | 0.380 | 16.240 | .008- | 152.0 | 16.365 | 16.203 | 1.187 | 517 |
| 500 | 12 | 268 | 46.035 | 33.939 | 46.010- | 22.072 | 1.488- | 25.782 | .189 | 65.0 | 26.749 | 20.890 | 1.273 | 484 |
| 500 | 03 | 274 | 28.518 | 31.753 | 28.454- | 21.848 | 1.917 | 23.042 | .050 | 68.5 | 23.261 | 21.615 | 1.264 | 459 |
| 500 | 06 | 277 | 19.525 | 20.445 | 19.394- | 15.324 | 2.263 | 13.534 | .037 | 8.5 | 15.361 | 13.492 | 1.265 | 461 |
| 500 | 09 | 274 | 27.263 | 33.801 | 27.200- | 23.439 | 1.863 | 24.354 | .099 | 55.5 | 25.138 | 22.596 | 1.304 | 516 |
| 300 | 12 | 268 | 66.492 | 48.343 | 66.463- | 29.554 | 1.987- | 38.258 | .095 | 80.0 | 38.507 | 29.229 | 1.237 | 483 |
| 300 | 03 | 271 | 41.960 | 43.011 | 41.948- | 31.388 | 1.019 | 29.407 | .115 | 30.5 | 32.364 | 28.329 | 1.316 | 460 |
| 300 | 06 | 280 | 28.710 | 29.856 | 28.262- | 22.232 | 5.058 | 19.927 | .072 | 16.5 | 22.447 | 19.684 | 1.324 | 459 |
| 300 | 09 | 272 | 42.622 | 46.157 | 42.582- | 33.442 | 1.855 | 31.813 | .178 | 37.0 | 35.535 | 29.457 | 1.375 | 516 |
| 200 | 12 | 267 | 72.063 | 42.422 | 71.970- | 28.375 | 3.667- | 31.536 | .139 | 63.5 | 32.502 | 27.263 | 1.333 | 483 |
| 200 | 03 | 270 | 47.263 | 39.197 | 47.263- | 27.824 | 0.014- | 27.608 | .142 | 43.5 | 29.627 | 25.663 | 1.317 | 460 |
| 200 | 06 | 281 | 37.640 | 38.323 | 36.917- | 27.820 | 7.341 | 26.357 | .120 | 33.0 | 28.831 | 25.247 | 1.313 | 460 |
| 200 | 09 | 273 | 48.677 | 43.298 | 48.603- | 30.915 | 2.696 | 30.315 | .190 | 42.0 | 33.419 | 27.530 | 1.334 | 517 |

## Rapid City, S. Dak., U.S.A.

| P | J | $\bar{\theta}$ | $\overline{\|V\|}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 306 | 11.160 | 16.529 | 9.000- | 8.734 | 6.599 | 14.032 | .450- | 111.0 | 14.776 | 07.405 | 1.306 | 458 |
| 850 | 03 | 314 | 6.340 | 17.453 | 4.568- | 8.582 | 4.397 | 15.197 | .417- | 107.5 | 15.747 | 07.526 | 1.205 | 448 |
| 850 | 06 | 296 | 3.172 | 14.978 | 2.856- | 7.690 | 1.382 | 12.853 | .324- | 105.5 | 13.197 | 07.084 | 1.168 | 456 |
| 850 | 09 | 307 | 9.481 | 17.481 | 7.548- | 8.637 | 5.737 | 15.198 | .386- | 106.5 | 15.685 | 07.718 | 1.228 | 501 |
| 700 | 12 | 299 | 20.790 | 20.120 | 18.132- | 12.607 | 10.172 | 15.680 | .178- | 109.5 | 16.074 | 12.101 | 1.313 | 483 |
| 700 | 03 | 300 | 11.327 | 20.362 | 9.851- | 12.946 | 5.590 | 15.717 | .206- | 113.5 | 16.283 | 12.226 | 1.210 | 460 |
| 700 | 06 | 270 | 11.444 | 15.131 | 11.444- | 9.753 | 0.082- | 11.569 | .130- | 108.5 | 11.780 | 09.497 | 1.219 | 460 |
| 700 | 09 | 296 | 16.757 | 20.312 | 15.025- | 11.616 | 7.418 | 16.663 | .278- | 108.5 | 17.196 | 10.811 | 1.255 | 516 |
| 500 | 12 | 284 | 32.029 | 30.797 | 31.033- | 20.566 | 7.925 | 22.923 | .003 | 89.0 | 22.923 | 20.365 | 1.286 | 483 |
| 500 | 03 | 281 | 20.906 | 28.257 | 20.529- | 19.143 | 3.956 | 20.784 | .145- | 120.0 | 21.581 | 18.240 | 1.250 | 460 |
| 500 | 06 | 267 | 23.450 | 20.183 | 23.416- | 13.663 | 1.277- | 14.856 | .035 | 78.5 | 14.905 | 13.609 | 1.257 | 459 |
| 500 | 09 | 287 | 26.299 | 29.543 | 25.190- | 18.006 | 7.557 | 23.422 | .101- | 100.5 | 23.591 | 17.784 | 1.226 | 517 |
| 300 | 12 | 281 | 45.631 | 45.818 | 44.797- | 30.817 | 8.684 | 33.905 | .102 | 66.5 | 34.581 | 30.057 | 1.220 | 483 |
| 300 | 03 | 272 | 31.194 | 42.432 | 31.172- | 28.417 | 1.155 | 31.512 | .055- | 104.0 | 31.706 | 28.200 | 1.197 | 459 |
| 300 | 06 | 265 | 37.201 | 30.383 | 37.058- | 20.259 | 3.258- | 22.642 | .087 | 71.0 | 22.945 | 19.915 | 1.260 | 458 |
| 300 | 09 | 284 | 37.741 | 44.512 | 36.659- | 28.560 | 8.970 | 34.142 | .010 | 88.5 | 34.146 | 28.555 | 1.207 | 515 |
| 200 | 12 | 279 | 48.991 | 38.613 | 48.390- | 26.163 | 7.653 | 28.398 | .133 | 61.0 | 29.356 | 25.084 | 1.330 | 483 |
| 200 | 03 | 273 | 32.539 | 36.156 | 32.497- | 23.257 | 1.641 | 27.683 | .034- | 95.5 | 27.721 | 23.211 | 1.247 | 459 |
| 200 | 06 | 265 | 47.016 | 34.352 | 46.834- | 22.729 | 4.129- | 25.758 | .067 | 76.0 | 25.951 | 22.508 | 1.241 | 460 |
| 200 | 09 | 282 | 40.885 | 42.057 | 40.031- | 27.037 | 8.314 | 32.216 | .042 | 83.0 | 32.285 | 26.954 | 1.213 | 514 |

## Rome, N.Y. (Griffis AFB), U.S.A.

| P | J | $\bar{\theta}$ | $\overline{\|V\|}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 265 | 19.023 | 22.346 | 18.938- | 15.103 | 1.797- | 16.078 | .001 | 89.0 | 16.078 | 15.103 | 1.216 | 394 |
| 850 | 03 | 275 | 11.010 | 21.277 | 10.965- | 14.315 | 0.997 | 15.741 | .074- | 109.0 | 15.924 | 14.111 | 1.180 | 407 |
| 850 | 06 | 274 | 11.208 | 15.912 | 11.185- | 10.983 | 0.712 | 11.514 | .080- | 120.0 | 11.764 | 10.715 | 1.239 | 416 |
| 850 | 09 | 262 | 12.530 | 19.295 | 12.407- | 13.285 | 1.757- | 13.992 | .061 | 65.0 | 14.182 | 13.082 | 1.207 | 439 |
| 700 | 12 | 270 | 31.183 | 26.957 | 31.183- | 18.033 | 0.247 | 20.037 | .083 | 71.0 | 20.295 | 17.742 | 1.249 | 483 |
| 700 | 03 | 280 | 19.705 | 26.454 | 19.428- | 17.732 | 3.292 | 19.631 | .118 | 65.5 | 20.105 | 17.193 | 1.200 | 460 |
| 700 | 06 | 279 | 17.198 | 19.363 | 16.976- | 13.524 | 2.757 | 13.857 | .095 | 52.0 | 14.350 | 13.000 | 1.232 | 460 |
| 700 | 09 | 262 | 20.763 | 25.155 | 20.575- | 17.373 | 2.794- | 18.192 | .115 | 56.0 | 18.862 | 16.643 | 1.236 | 516 |
| 500 | 12 | 268 | 48.841 | 39.182 | 48.814- | 26.184 | 1.611- | 29.148 | .031 | 82.0 | 29.206 | 26.119 | 1.296 | 482 |
| 500 | 03 | 277 | 32.550 | 36.819 | 32.309- | 25.449 | 3.950 | 26.609 | .111 | 56.0 | 27.552 | 24.425 | 1.230 | 460 |
| 500 | 06 | 275 | 26.303 | 22.742 | 26.192- | 16.694 | 2.420 | 15.537 | .227 | 36.0 | 17.943 | 14.076 | 1.243 | 460 |
| 500 | 09 | 260 | 31.028 | 36.322 | 30.558- | 25.913 | 5.377- | 25.452 | .128 | 41.0 | 27.300 | 23.958 | 1.303 | 515 |
| 300 | 12 | 268 | 70.285 | 52.123 | 70.228- | 36.558 | 2.837- | 37.151 | .016 | 67.0 | 37.277 | 36.429 | 1.339 | 483 |
| 300 | 03 | 275 | 46.796 | 49.374 | 46.583- | 33.399 | 4.461 | 36.363 | .080 | 68.0 | 36.899 | 32.806 | 1.230 | 460 |
| 300 | 06 | 273 | 40.008 | 36.357 | 39.952- | 26.347 | 2.102 | 25.054 | .179 | 37.0 | 28.002 | 23.189 | 1.277 | 458 |
| 300 | 09 | 261 | 48.540 | 46.333 | 47.930- | 32.789 | 7.669- | 32.736 | .245 | 45.0 | 36.568 | 28.453 | 1.353 | 518 |
| 200 | 12 | 267 | 71.367 | 45.345 | 71.240- | 31.797 | 4.251- | 32.328 | .077 | 51.0 | 33.312 | 30.765 | 1.331 | 483 |
| 200 | 03 | 275 | 47.277 | 44.577 | 47.131- | 30.918 | 3.717 | 32.112 | .038 | 67.5 | 32.357 | 30.661 | 1.255 | 460 |
| 200 | 06 | 275 | 44.023 | 39.170 | 43.847- | 27.559 | 3.924 | 27.835 | .239 | 46.0 | 30.838 | 24.151 | 1.299 | 477 |
| 200 | 09 | 262 | 52.430 | 42.843 | 51.937- | 28.769 | 7.177- | 31.747 | .254 | 55.5 | 34.167 | 25.848 | 1.321 | 516 |

## San Antonio, Tex., U.S.A.

| P | J | $\bar{\theta}$ | $\|\bar{V}\|$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 224 | 10.009 | 19.396 | 6.974- | 9.978 | 7.179- | 16.632 | .071- | 94.0 | 16.656 | 09.938 | 1.173 | 472 |
| 850 | 03 | 201 | 8.791 | 17.795 | 3.152- | 10.247 | 8.207- | 14.549 | .064- | 95.0 | 14.578 | 10.205 | 1.172 | 452 |
| 850 | 06 | 176 | 10.717 | 11.800 | 0.731 | 5.980 | 10.691- | 10.172 | .361 | 73.5 | 10.488 | 05.407 | 1.282 | 457 |
| 850 | 09 | 192 | 3.039 | 16.333 | 0.626- | 8.673 | 2.974- | 13.840 | .126 | 82.5 | 13.910 | 08.560 | 1.155 | 505 |
| 700 | 12 | 250 | 19.256 | 18.066 | 18.092- | 10.830 | 6.592- | 14.460 | .023 | 88.0 | 14.465 | 10.823 | 1.262 | 482 |
| 700 | 03 | 248 | 12.329 | 18.073 | 11.465- | 12.696 | 4.533- | 12.863 | .010 | 70.5 | 12.886 | 12.672 | 1.240 | 460 |
| 700 | 06 | 131 | 5.411 | 13.196 | 4.090 | 7.771 | 3.543- | 10.664 | .223 | 72.5 | 10.934 | 07.387 | 1.170 | 460 |
| 700 | 09 | 275 | 5.208 | 17.524 | 5.187- | 13.171 | 0.464 | 11.559 | .218 | 29.5 | 13.866 | 10.715 | 1.208 | 516 |
| 500 | 12 | 255 | 35.943 | 26.948 | 34.639- | 16.865 | 9.595- | 21.018 | .218 | 67.5 | 21.757 | 15.900 | 1.321 | 483 |
| 500 | 03 | 261 | 28.911 | 24.341 | 28.559- | 18.164 | 4.499- | 16.203 | .160 | 27.5 | 18.823 | 15.433 | 1.443 | 460 |
| 500 | 06 | 101 | 2.697 | 13.977 | 2.650 | 9.710 | 0.497- | 10.054 | .076 | 57.0 | 10.290 | 09.459 | 1.153 | 461 |
| 500 | 09 | 271 | 15.308 | 25.023 | 15.307- | 19.034 | 0.189 | 16.243 | .246 | 28.5 | 20.093 | 14.914 | 1.368 | 516 |
| 300 | 12 | 256 | 59.091 | 38.143 | 57.316- | 24.370 | 14.377- | 29.343 | .246 | 63.5 | 30.804 | 22.495 | 1.332 | 484 |
| 300 | 03 | 263 | 51.379 | 36.778 | 50.982- | 26.979 | 6.376- | 24.995 | .215 | 35.0 | 28.814 | 22.856 | 1.499 | 459 |
| 300 | 06 | 030 | 3.463 | 23.879 | 1.743 | 19.268 | 2.992 | 14.106 | .139 | 12.0 | 19.473 | 13.822 | 1.157 | 459 |
| 300 | 09 | 272 | 31.417 | 34.474 | 31.394- | 26.412 | 1.191 | 22.155 | .298 | 29.5 | 28.233 | 19.783 | 1.367 | 516 |
| 200 | 12 | 258 | 71.395 | 41.283 | 69.733- | 27.195 | 15.312- | 31.061 | .172 | 64.0 | 32.193 | 25.845 | 1.329 | 483 |
| 200 | 03 | 263 | 63.191 | 39.218 | 62.737- | 28.240 | 7.560- | 27.214 | .097 | 34.5 | 29.139 | 26.249 | 1.421 | 460 |
| 200 | 06 | 343 | 5.046 | 31.344 | 1.453- | 26.177 | 4.832 | 17.241 | .164 | 10.5 | 26.438 | 16.838 | 1.173 | 460 |
| 200 | 09 | 272 | 42.454 | 38.343 | 42.422- | 30.136 | 1.663 | 23.708 | .221 | 21.0 | 31.136 | 22.378 | 1.434 | 517 |

## San Diego, Calif., U.S.A.

| P | J | $\bar{\theta}$ | $\|\bar{V}\|$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 321 | 3.504 | 12.862 | 2.213- | 9.467 | 2.717 | 8.706 | .096- | 155.5 | 9.657 | 08.494 | 1.191 | 332 |
| 850 | 03 | 297 | 5.591 | 10.422 | 4.975- | 7.443 | 2.553 | 7.295 | .125- | 139.5 | 7.822 | 06.887 | 1.203 | 302 |
| 850 | 06 | 281 | 3.718 | 8.596 | 3.649- | 5.728 | 0.718 | 6.409 | .358- | 126.5 | 7.124 | 04.809 | 1.200 | 337 |
| 850 | 09 | 319 | 1.562 | 10.606 | 1.019- | 7.562 | 1.183 | 7.437 | .084- | 140.5 | 7.817 | 07.168 | 1.183 | 352 |
| 700 | 12 | 292 | 12.243 | 20.481 | 11.384- | 14.618 | 4.506 | 14.345 | .036 | 31.0 | 14.775 | 14.184 | 1.168 | 451 |
| 700 | 03 | 279 | 10.299 | 18.213 | 10.159- | 12.557 | 1.695 | 13.193 | .045 | 68.5 | 13.304 | 12.440 | 1.178 | 460 |
| 700 | 06 | 228 | 6.884 | 12.551 | 5.128- | 8.920 | 4.593- | 8.830 | .005- | 165.5 | 8.926 | 08.824 | 1.198 | 460 |
| 700 | 09 | 268 | 4.825 | 15.992 | 4.822- | 11.803 | 0.171- | 10.790 | .012 | 4.0 | 11.807 | 10.785 | 1.185 | 455 |
| 500 | 12 | 282 | 25.857 | 31.096 | 25.257- | 20.768 | 5.539 | 23.144 | .153 | 62.5 | 23.954 | 19.829 | 1.217 | 450 |
| 500 | 03 | 272 | 20.307 | 27.562 | 20.295- | 18.595 | 0.698 | 20.344 | .195 | 57.5 | 21.473 | 17.279 | 1.250 | 460 |
| 500 | 06 | 233 | 11.238 | 18.404 | 8.929- | 13.375 | 6.825- | 12.643 | .185 | 36.5 | 14.219 | 11.685 | 1.318 | 460 |
| 500 | 09 | 266 | 13.125 | 24.273 | 13.092- | 17.463 | 0.932- | 16.858 | .068 | 31.5 | 17.808 | 16.493 | 1.265 | 455 |
| 300 | 12 | 275 | 43.974 | 43.986 | 43.819- | 29.510 | 3.682 | 32.618 | .283 | 54.5 | 35.456 | 26.032 | 1.241 | 448 |
| 300 | 03 | 273 | 37.391 | 40.283 | 37.349- | 27.169 | 1.785 | 29.741 | .178 | 58.5 | 31.194 | 25.487 | 1.258 | 427 |
| 300 | 06 | 237 | 22.549 | 27.077 | 18.957- | 19.957 | 12.209- | 18.300 | .118 | 27.0 | 20.503 | 17.686 | 1.338 | 368 |
| 300 | 09 | 258 | 26.468 | 33.851 | 25.865- | 25.415 | 5.617- | 22.361 | .172 | 26.5 | 26.363 | 21.235 | 1.311 | 364 |
| 200 | 12 | 272 | 51.434 | 42.319 | 51.386- | 27.906 | 2.210 | 31.814 | .239 | 59.5 | 33.730 | 25.557 | 1.231 | 449 |
| 200 | 03 | 272 | 45.736 | 39.731 | 45.710- | 26.272 | 1.550 | 29.805 | .247 | 58.5 | 31.731 | 23.911 | 1.242 | 429 |
| 200 | 06 | 236 | 27.955 | 32.109 | 23.277- | 23.948 | 15.482- | 21.389 | .236 | 32.0 | 25.494 | 19.521 | 1.283 | 368 |
| 200 | 09 | 259 | 35.247 | 33.923 | 34.627- | 25.960 | 6.581- | 21.838 | .223 | 26.0 | 27.129 | 20.368 | 1.333 | 363 |

## Santa Maria, Calif., U.S.A.

| P | J | $\bar{\theta}$ | $\|\bar{V}\|$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 321 | 5.797 | 17.403 | 3.662- | 9.296 | 4.494 | 14.713 | .070- | 94.0 | 14.737 | 09.257 | 1.159 | 469 |
| 850 | 03 | 346 | 6.556 | 14.838 | 1.637- | 7.453 | 6.348 | 12.830 | .059- | 93.0 | 12.842 | 07.433 | 1.172 | 453 |
| 850 | 06 | 020 | 2.628 | 10.136 | 0.901 | 5.495 | 2.469 | 8.517 | .184- | 101.0 | 8.616 | 05.339 | 1.222 | 453 |
| 850 | 09 | 357 | 3.157 | 13.744 | 0.173- | 7.579 | 3.152 | 11.466 | .052- | 93.5 | 11.478 | 07.561 | 1.184 | 503 |
| 700 | 12 | 300 | 11.301 | 22.843 | 9.791- | 15.167 | 5.643 | 17.082 | .022- | 95.5 | 17.098 | 15.149 | 1.186 | 483 |
| 700 | 03 | 301 | 12.257 | 21.640 | 10.453- | 13.202 | 6.402 | 17.146 | .015- | 91.5 | 17.149 | 13.198 | 1.227 | 460 |
| 700 | 06 | 236 | 4.083 | 13.610 | 3.397- | 9.555 | 2.264- | 9.691 | .073- | 129.5 | 9.975 | 09.258 | 1.263 | 459 |
| 700 | 09 | 289 | 5.330 | 18.435 | 5.034- | 12.096 | 1.750 | 13.911 | .092- | 106.5 | 14.078 | 11.902 | 1.228 | 516 |
| 500 | 12 | 292 | 25.738 | 32.802 | 23.909- | 21.861 | 9.530 | 24.455 | .195 | 60.0 | 25.662 | 20.430 | 1.214 | 483 |
| 500 | 03 | 285 | 22.015 | 30.977 | 21.304- | 20.351 | 5.547 | 23.354 | .037 | 82.5 | 23.405 | 20.292 | 1.249 | 460 |
| 500 | 06 | 240 | 10.697 | 20.107 | 9.262- | 14.409 | 5.351- | 14.024 | .068 | 34.0 | 14.732 | 13.684 | 1.290 | 460 |
| 500 | 09 | 280 | 14.442 | 27.802 | 14.218- | 18.663 | 2.529 | 20.606 | .001 | 89.5 | 20.606 | 18.663 | 1.241 | 516 |
| 300 | 12 | 289 | 38.883 | 47.941 | 36.830- | 32.710 | 12.466 | 35.048 | .294 | 51.5 | 38.684 | 28.317 | 1.214 | 484 |
| 300 | 03 | 280 | 32.859 | 42.064 | 32.328- | 27.386 | 5.884 | 31.929 | .253 | 60.5 | 33.824 | 25.008 | 1.224 | 458 |
| 300 | 06 | 244 | 22.993 | 30.839 | 20.660- | 21.713 | 10.092- | 21.900 | .289 | 46.0 | 24.763 | 18.381 | 1.235 | 460 |
| 300 | 09 | 279 | 24.970 | 38.560 | 24.665- | 26.078 | 3.888 | 28.404 | .176 | 58.0 | 29.816 | 24.451 | 1.243 | 515 |
| 200 | 12 | 281 | 46.141 | 44.010 | 45.226- | 30.110 | 9.142 | 32.097 | .287 | 51.5 | 35.395 | 26.154 | 1.245 | 483 |
| 200 | 03 | 277 | 40.740 | 40.665 | 40.465- | 27.982 | 4.721 | 29.508 | .295 | 50.0 | 32.783 | 24.063 | 1.234 | 459 |
| 200 | 06 | 243 | 31.878 | 33.970 | 28.286- | 23.557 | 14.701- | 24.475 | .222 | 50.0 | 26.592 | 21.138 | 1.266 | 460 |
| 200 | 09 | 273 | 32.272 | 38.416 | 32.222- | 27.290 | 1.800 | 27.037 | .204 | 43.5 | 29.817 | 24.222 | 1.263 | 516 |

## Sault Ste. Marie, Mich., U.S.A.

| P | J | $\bar{\theta}$ | $\|\bar{V}\|$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 279 | 11.207 | 20.612 | 11.077- | 13.659 | 1.707 | 15.437 | .029- | 97.0 | 15.461 | 13.632 | 1.157 | 445 |
| 850 | 03 | 292 | 6.142 | 20.543 | 5.705- | 14.471 | 2.275 | 14.581 | .072 | 48.0 | 15.046 | 13.987 | 1.132 | 436 |
| 850 | 06 | 276 | 9.956 | 16.428 | 9.894- | 11.521 | 1.105 | 11.711 | .065 | 52.0 | 12.002 | 11.218 | 1.184 | 424 |
| 850 | 09 | 263 | 10.664 | 19.552 | 10.588- | 13.576 | 1.274- | 14.071 | .061 | 60.0 | 14.310 | 13.324 | 1.151 | 491 |
| 700 | 12 | 277 | 23.870 | 24.724 | 23.700- | 17.632 | 2.846 | 17.332 | .094 | 40.0 | 18.302 | 16.623 | 1.215 | 483 |
| 700 | 03 | 285 | 13.831 | 24.779 | 13.334- | 17.410 | 3.677 | 17.631 | .051 | 52.0 | 17.982 | 17.047 | 1.169 | 460 |
| 700 | 06 | 280 | 18.051 | 18.570 | 17.775- | 13.420 | 3.147 | 12.837 | .230 | 39.5 | 14.591 | 11.489 | 1.278 | 460 |
| 700 | 09 | 270 | 18.063 | 22.932 | 18.063- | 16.023 | 0.130 | 16.406 | .111 | 51.0 | 17.112 | 15.267 | 1.186 | 516 |
| 500 | 12 | 275 | 39.950 | 35.336 | 39.782- | 25.128 | 3.662 | 24.843 | .005 | 12.5 | 25.143 | 24.827 | 1.320 | 483 |
| 500 | 03 | 283 | 24.813 | 32.650 | 24.183- | 22.999 | 5.554 | 23.174 | .048 | 49.5 | 23.645 | 22.514 | 1.190 | 458 |
| 500 | 06 | 278 | 26.188 | 22.442 | 25.905- | 15.445 | 3.837 | 16.281 | .194 | 52.5 | 17.390 | 14.185 | 1.272 | 460 |
| 500 | 09 | 271 | 27.175 | 31.764 | 27.166- | 21.861 | 0.686 | 23.045 | .067 | 64.0 | 23.399 | 21.482 | 1.192 | 514 |
| 300 | 12 | 272 | 56.527 | 46.081 | 56.493- | 32.725 | 1.960 | 32.442 | .139 | 43.0 | 34.786 | 30.222 | 1.279 | 482 |
| 300 | 03 | 278 | 38.094 | 45.166 | 37.700- | 31.800 | 5.463 | 32.074 | .047 | 50.0 | 32.704 | 31.151 | 1.191 | 460 |
| 300 | 06 | 279 | 38.688 | 32.601 | 38.165- | 22.044 | 6.337 | 24.017 | .229 | 55.5 | 25.709 | 20.045 | 1.260 | 460 |
| 300 | 09 | 274 | 39.385 | 44.028 | 39.278- | 30.206 | 2.900 | 32.031 | .151 | 55.5 | 33.562 | 28.495 | 1.200 | 515 |
| 200 | 12 | 271 | 59.217 | 38.454 | 59.206- | 26.705 | 1.107 | 27.668 | .148 | 51.5 | 29.188 | 25.034 | 1.324 | 481 |
| 200 | 03 | 276 | 38.078 | 38.157 | 37.875- | 28.028 | 3.930 | 25.891 | .093 | 25.0 | 28.579 | 25.281 | 1.222 | 460 |
| 200 | 06 | 280 | 43.406 | 35.046 | 42.757- | 24.103 | 7.480 | 25.442 | .188 | 53.0 | 27.097 | 22.226 | 1.283 | 478 |
| 200 | 09 | 272 | 43.594 | 41.491 | 43.563- | 28.515 | 1.648 | 30.140 | .160 | 54.5 | 31.735 | 26.729 | 1.212 | 517 |

## Spokane, Wash., U.S.A.

| P | J | $\bar{\theta}$ | $\bar{\lvert V \rvert}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 230 | 10.928 | 16.660 | 8.370- | 12.461 | 7.025- | 11.058 | .402 | 36.5 | 14.021 | 08.997 | 1.291 | 429 |
| 850 | 03 | 232 | 6.823 | 14.640 | 5.341- | 11.213 | 4.245- | 9.412 | .368 | 32.0 | 12.258 | 08.003 | 1.200 | 448 |
| 850 | 06 | 228 | 4.900 | 11.899 | 3.655- | 9.092 | 3.263- | 7.676 | .511 | 36.0 | 10.413 | 05.757 | 1.206 | 447 |
| 850 | 09 | 235 | 7.220 | 15.138 | 5.906- | 11.233 | 4.153- | 10.148 | .430 | 38.5 | 12.847 | 08.007 | 1.268 | 501 |
| 700 | 12 | 269 | 19.137 | 20.330 | 19.132- | 14.391 | 0.454- | 14.360 | .257 | 45.0 | 16.121 | 12.386 | 1.233 | 481 |
| 700 | 03 | 260 | 10.836 | 16.878 | 10.666- | 11.749 | 1.910- | 12.117 | .105 | 53.0 | 12.572 | 11.261 | 1.211 | 460 |
| 700 | 06 | 248 | 8.983 | 14.816 | 8.351- | 10.095 | 3.309- | 10.844 | .073 | 67.0 | 11.001 | 09.924 | 1.191 | 459 |
| 700 | 09 | 269 | 14.080 | 18.298 | 14.079- | 12.597 | 0.183- | 13.272 | .263 | 50.5 | 14.570 | 11.070 | 1.232 | 516 |
| 500 | 12 | 281 | 27.847 | 33.379 | 27.355- | 21.254 | 5.211 | 25.738 | .268 | 63.0 | 27.163 | 19.399 | 1.213 | 483 |
| 500 | 03 | 267 | 19.576 | 29.543 | 19.540- | 19.677 | 1.184- | 22.036 | .031- | 97.5 | 22.077 | 19.631 | 1.237 | 460 |
| 500 | 06 | 257 | 19.093 | 24.392 | 18.608- | 15.750 | 4.278- | 18.625 | .152 | 69.0 | 19.082 | 15.193 | 1.246 | 459 |
| 500 | 09 | 277 | 24.303 | 32.079 | 24.100- | 21.119 | 3.130 | 24.146 | .231 | 60.0 | 25.512 | 19.447 | 1.210 | 516 |
| 300 | 12 | 285 | 40.873 | 46.410 | 39.522- | 30.649 | 10.423 | 34.851 | .176 | 63.0 | 36.195 | 29.049 | 1.189 | 483 |
| 300 | 03 | 269 | 26.732 | 45.292 | 26.729- | 29.220 | 0.416- | 34.606 | .029 | 85.0 | 34.643 | 29.177 | 1.171 | 460 |
| 300 | 06 | 260 | 27.855 | 37.531 | 27.420- | 24.187 | 4.903- | 28.698 | .071 | 78.5 | 28.871 | 23.980 | 1.199 | 460 |
| 300 | 09 | 278 | 35.120 | 48.093 | 34.755- | 31.980 | 5.053 | 35.919 | .160 | 63.0 | 37.199 | 30.481 | 1.192 | 517 |
| 200 | 12 | 287 | 42.069 | 38.757 | 40.299- | 25.857 | 12.073 | 28.870 | .138 | 64.0 | 29.725 | 24.870 | 1.260 | 484 |
| 200 | 03 | 276 | 27.674 | 37.664 | 27.519- | 24.923 | 2.922 | 28.240 | .102- | 109.5 | 28.688 | 24.406 | 1.229 | 459 |
| 200 | 06 | 262 | 34.414 | 37.247 | 34.083- | 22.420 | 4.766- | 29.743 | .042 | 86.0 | 29.777 | 22.374 | 1.234 | 460 |
| 200 | 09 | 280 | 38.363 | 44.131 | 37.732- | 29.245 | 6.929 | 33.050 | .198 | 61.0 | 34.628 | 27.358 | 1.195 | 517 |

## St. Cloud, Minn., U.S.A.

| P | J | $\bar{\theta}$ | $\bar{\lvert V \rvert}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 286 | 11.040 | 21.279 | 10.631- | 13.763 | 2.975 | 16.229 | .185- | 114.0 | 16.789 | 13.074 | 1.158 | 465 |
| 850 | 03 | 311 | 4.889 | 21.606 | 3.671- | 13.643 | 3.228 | 16.754 | .007- | 91.0 | 16.755 | 13.642 | 1.132 | 443 |
| 850 | 06 | 266 | 8.322 | 19.237 | 8.300- | 11.663 | 0.602- | 15.298 | .100- | 100.0 | 15.402 | 11.525 | 1.168 | 451 |
| 850 | 09 | 279 | 9.769 | 21.857 | 9.636- | 12.933 | 1.605 | 17.620 | .074- | 96.5 | 17.677 | 12.856 | 1.162 | 498 |
| 700 | 12 | 283 | 21.020 | 23.888 | 20.444- | 16.157 | 4.886 | 17.595 | .074- | 110.5 | 17.821 | 15.907 | 1.169 | 483 |
| 700 | 03 | 289 | 12.115 | 23.152 | 11.451- | 15.101 | 3.954 | 17.550 | .031- | 96.0 | 17.575 | 15.072 | 1.170 | 459 |
| 700 | 06 | 279 | 16.201 | 19.226 | 16.010- | 12.750 | 2.477 | 14.390 | .027- | 96.5 | 14.410 | 12.727 | 1.245 | 460 |
| 700 | 09 | 282 | 18.324 | 23.829 | 17.897- | 14.588 | 3.938 | 18.842 | .085- | 99.0 | 18.942 | 14.458 | 1.180 | 516 |
| 500 | 12 | 280 | 35.414 | 33.230 | 34.925- | 21.996 | 5.864 | 24.909 | .010- | 92.5 | 24.913 | 21.991 | 1.227 | 483 |
| 500 | 03 | 281 | 22.826 | 31.024 | 22.376- | 21.632 | 4.510 | 22.239 | .079- | 125.5 | 22.840 | 20.996 | 1.209 | 460 |
| 500 | 06 | 279 | 26.956 | 22.559 | 26.638- | 15.125 | 4.127 | 16.737 | .006- | 91.5 | 16.738 | 15.123 | 1.302 | 460 |
| 500 | 09 | 284 | 27.897 | 33.943 | 27.027- | 21.686 | 6.915 | 26.112 | .031 | 85.0 | 26.140 | 21.652 | 1.219 | 514 |
| 300 | 12 | 276 | 52.917 | 47.643 | 52.658- | 31.615 | 5.217 | 35.642 | .117 | 68.0 | 36.387 | 30.754 | 1.256 | 482 |
| 300 | 03 | 272 | 34.950 | 44.148 | 34.923- | 30.061 | 1.374 | 32.332 | .002- | 91.0 | 32.333 | 30.060 | 1.181 | 459 |
| 300 | 06 | 276 | 41.822 | 34.552 | 41.611- | 23.286 | 4.191 | 25.527 | .025- | 97.5 | 25.567 | 23.242 | 1.309 | 458 |
| 300 | 09 | 281 | 40.163 | 47.642 | 39.457- | 31.426 | 7.498 | 35.807 | .135 | 67.0 | 36.698 | 30.380 | 1.221 | 517 |
| 200 | 12 | 273 | 54.366 | 38.910 | 54.277- | 25.203 | 3.114 | 29.644 | .185 | 65.5 | 30.688 | 23.921 | 1.278 | 480 |
| 200 | 03 | 272 | 36.882 | 37.016 | 36.868- | 24.617 | 1.016 | 27.644 | .080 | 72.5 | 27.955 | 24.263 | 1.202 | 461 |
| 200 | 06 | 274 | 50.797 | 37.133 | 50.697- | 24.239 | 3.189 | 28.130 | .138 | 68.5 | 28.778 | 23.466 | 1.276 | 459 |
| 200 | 09 | 280 | 44.114 | 44.120 | 43.479- | 28.536 | 7.457 | 33.650 | .122 | 71.5 | 34.224 | 27.846 | 1.222 | 516 |

## Tatoosh, Wash., U.S.A.

| P | J | $\bar{\theta}$ | $\bar{\lvert V \rvert}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 246 | 8.727 | 19.777 | 7.970- | 12.419 | 3.554- | 15.391 | .096- | 102.0 | 15.517 | 12.261 | 1.170 | 326 |
| 850 | 03 | 224 | 6.377 | 15.365 | 4.395- | 10.232 | 4.621- | 11.463 | .126- | 114.0 | 11.749 | 09.902 | 1.200 | 424 |
| 850 | 06 | 269 | 3.475 | 11.035 | 3.474- | 7.632 | 0.087- | 7.970 | .034 | 71.0 | 8.015 | 07.585 | 1.188 | 449 |
| 850 | 09 | 234 | 6.695 | 17.623 | 5.424- | 11.440 | 3.923- | 13.405 | .000- | 90.0 | 13.405 | 11.440 | 1.189 | 437 |
| 700 | 12 | 263 | 17.075 | 24.861 | 16.936- | 15.003 | 2.178- | 19.823 | .155 | 75.5 | 20.122 | 14.599 | 1.180 | 483 |
| 700 | 03 | 247 | 11.457 | 21.040 | 10.517- | 12.949 | 4.544- | 16.583 | .010- | 91.0 | 16.584 | 12.947 | 1.177 | 460 |
| 700 | 06 | 277 | 7.932 | 16.100 | 7.867- | 10.034 | 1.018 | 12.590 | .062 | 82.5 | 12.632 | 09.981 | 1.186 | 460 |
| 700 | 09 | 260 | 14.421 | 22.032 | 14.187- | 14.043 | 2.587- | 16.977 | .205 | 66.5 | 17.593 | 13.263 | 1.199 | 516 |
| 500 | 12 | 274 | 27.591 | 36.076 | 27.539- | 22.255 | 1.700 | 28.393 | .197 | 70.5 | 29.157 | 21.244 | 1.161 | 482 |
| 500 | 03 | 261 | 20.070 | 33.206 | 19.797- | 21.027 | 3.305- | 25.701 | .041- | 96.0 | 25.746 | 20.972 | 1.196 | 460 |
| 500 | 06 | 275 | 15.671 | 24.858 | 15.610- | 15.766 | 1.383 | 19.218 | .045 | 83.5 | 19.258 | 15.717 | 1.173 | 460 |
| 500 | 09 | 265 | 24.285 | 32.456 | 24.209- | 21.352 | 1.923- | 24.443 | .119 | 69.5 | 24.922 | 20.791 | 1.190 | 516 |
| 300 | 12 | 282 | 38.350 | 47.715 | 37.525- | 30.082 | 7.913 | 37.037 | .221 | 66.5 | 38.443 | 28.263 | 1.149 | 483 |
| 300 | 03 | 270 | 28.737 | 46.192 | 28.736- | 31.592 | 0.243 | 33.700 | .004 | 88.0 | 33.702 | 31.589 | 1.176 | 460 |
| 300 | 06 | 275 | 23.676 | 41.673 | 23.581- | 26.025 | 2.121 | 32.549 | .104 | 77.5 | 32.849 | 25.645 | 1.167 | 459 |
| 300 | 09 | 269 | 35.977 | 47.383 | 35.975- | 32.167 | 0.463- | 34.790 | .174 | 57.0 | 36.565 | 30.135 | 1.199 | 516 |
| 200 | 12 | 285 | 38.895 | 39.480 | 37.539- | 25.639 | 10.179 | 30.022 | .242 | 61.5 | 31.661 | 23.586 | 1.187 | 483 |
| 200 | 03 | 278 | 26.730 | 39.044 | 26.481- | 26.125 | 3.643 | 29.016 | .032 | 81.5 | 29.079 | 26.055 | 1.211 | 460 |
| 200 | 06 | 274 | 26.086 | 37.624 | 26.020- | 23.919 | 1.851 | 29.043 | .207 | 66.5 | 30.100 | 22.575 | 1.195 | 460 |
| 200 | 09 | 274 | 36.633 | 44.876 | 36.554- | 28.878 | 2.405 | 34.349 | .251 | 62.5 | 36.200 | 26.520 | 1.185 | 517 |

## Tucson, Ariz., (Davis-Monthan AFB), U.S.A.

| P | J | $\bar{\theta}$ | $\bar{\lvert V \rvert}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 174 | 5.240 | 13.178 | 0.532 | 10.127 | 5.213- | 8.433 | .019 | 3.0 | 10.131 | 08.428 | 1.296 | 450 |
| 850 | 03 | 187 | 4.203 | 10.814 | 0.510- | 7.953 | 4.330- | 7.327 | .005 | 2.0 | 7.954 | 07.326 | 1.305 | 438 |
| 850 | 06 | 175 | 2.617 | 7.726 | 0.224 | 5.212 | 2.607- | 5.703 | .139- | 118.5 | 5.897 | 04.991 | 1.372 | 434 |
| 850 | 09 | 142 | 5.678 | 11.383 | 3.509 | 9.109 | 4.464- | 6.827 | .197- | 163.0 | 9.313 | 06.546 | 1.334 | 506 |
| 700 | 12 | 262 | 13.696 | 22.624 | 13.571- | 15.830 | 1.839- | 16.163 | .268 | 47.0 | 18.026 | 13.672 | 1.229 | 482 |
| 700 | 03 | 248 | 13.342 | 21.185 | 12.390- | 15.482 | 4.950- | 14.462 | .075 | 24.0 | 15.724 | 14.198 | 1.308 | 459 |
| 700 | 06 | 209 | 5.303 | 14.124 | 2.582- | 9.210 | 4.631- | 10.708 | .290 | 58.5 | 11.492 | 08.211 | 1.259 | 460 |
| 700 | 09 | 232 | 6.257 | 18.286 | 4.909- | 13.163 | 3.880- | 12.694 | .132 | 37.5 | 13.788 | 12.013 | 1.227 | 516 |
| 500 | 12 | 268 | 32.554 | 35.445 | 32.532- | 25.624 | 1.177- | 24.490 | .342 | 41.0 | 29.066 | 20.286 | 1.302 | 483 |
| 500 | 03 | 262 | 28.770 | 30.797 | 28.454- | 22.089 | 4.257- | 21.460 | .102 | 37.0 | 22.905 | 20.587 | 1.353 | 459 |
| 500 | 06 | 210 | 7.660 | 19.742 | 3.874- | 15.631 | 6.608- | 12.057 | .180 | 17.5 | 15.965 | 11.610 | 1.229 | 460 |
| 500 | 09 | 264 | 14.139 | 28.438 | 14.072- | 20.115 | 1.374- | 20.103 | .188 | 45.0 | 21.927 | 18.110 | 1.299 | 516 |
| 300 | 12 | 265 | 52.270 | 52.070 | 52.064- | 35.344 | 4.630- | 38.237 | .409 | 50.5 | 43.806 | 28.148 | 1.296 | 483 |
| 300 | 03 | 265 | 46.170 | 39.534 | 46.007- | 28.454 | 3.868- | 27.446 | .221 | 40.5 | 30.930 | 24.622 | 1.350 | 460 |
| 300 | 06 | 239 | 15.773 | 28.230 | 13.458- | 22.245 | 8.225- | 17.381 | .150 | 15.5 | 22.605 | 16.911 | 1.296 | 459 |
| 300 | 09 | 268 | 29.383 | 40.059 | 29.368- | 29.506 | 0.923- | 27.095 | .334 | 38.0 | 32.844 | 22.934 | 1.330 | 517 |
| 200 | 12 | 263 | 58.806 | 49.715 | 58.338- | 32.723 | 7.403- | 37.427 | .356 | 55.5 | 41.267 | 27.724 | 1.284 | 483 |
| 200 | 03 | 264 | 57.805 | 43.538 | 57.453- | 30.281 | 6.375- | 31.283 | .231 | 49.0 | 34.199 | 26.945 | 1.390 | 460 |
| 200 | 06 | 244 | 21.245 | 34.346 | 19.106- | 27.197 | 9.291- | 20.975 | .149 | 15.0 | 27.607 | 20.433 | 1.323 | 480 |
| 200 | 09 | 267 | 40.134 | 41.692 | 40.094- | 31.244 | 1.799- | 27.604 | .313 | 34.0 | 34.055 | 24.051 | 1.344 | 516 |

## Washington, D.C., U.S.A.

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 281 | 16.911 | 20.297 | 16.571- | 12.536 | 3.372 | 15.963 | .052 | 84.0 | 15.998 | 12.491 | 1.185 | 369 |
| 850 | 03 | 284 | 12.386 | 19.659 | 12.013- | 12.455 | 3.016 | 15.210 | .098 | 77.0 | 15.351 | 12.280 | 1.168 | 362 |
| 850 | 06 | 290 | 7.585 | 13.384 | 7.137- | 9.590 | 2.570 | 9.336 | .070- | 145.5 | 9.814 | 09.100 | 1.196 | 398 |
| 850 | 09 | 282 | 9.775 | 18.500 | 9.563- | 12.723 | 2.025 | 13.431 | .010- | 95.5 | 13.437 | 12.716 | 1.216 | 442 |
| 700 | 12 | 270 | 31.811 | 24.281 | 31.811- | 15.078 | 0.085- | 19.031 | .065 | 82.0 | 19.099 | 14.992 | 1.237 | 483 |
| 700 | 03 | 276 | 22.783 | 23.244 | 22.662- | 15.817 | 2.342 | 17.034 | .140 | 59.0 | 17.692 | 15.078 | 1.236 | 460 |
| 700 | 06 | 279 | 14.230 | 16.410 | 14.074- | 12.632 | 2.107 | 10.476 | .129 | 17.5 | 12.841 | 10.218 | 1.256 | 460 |
| 700 | 09 | 265 | 17.450 | 22.581 | 17.391- | 16.658 | 1.423- | 15.244 | .139 | 29.0 | 17.232 | 14.592 | 1.241 | 516 |
| 500 | 12 | 269 | 52.615 | 34.650 | 52.598- | 22.309 | 1.323- | 26.514 | .024 | 86.0 | 26.533 | 22.286 | 1.300 | 483 |
| 500 | 03 | 272 | 34.935 | 33.226 | 34.907- | 23.374 | 1.384 | 23.614 | .187 | 46.5 | 25.607 | 21.172 | 1.311 | 459 |
| 500 | 06 | 275 | 20.114 | 19.637 | 20.033- | 14.738 | 1.803 | 12.977 | .075 | 15.5 | 14.873 | 12.822 | 1.258 | 458 |
| 500 | 09 | 261 | 30.161 | 32.906 | 29.819- | 24.565 | 4.525- | 21.894 | .197 | 30.0 | 25.777 | 20.453 | 1.386 | 516 |
| 300 | 12 | 267 | 71.028 | 43.687 | 70.950- | 28.452 | 3.315- | 33.151 | .107 | 72.5 | 33.626 | 27.889 | 1.314 | 482 |
| 300 | 03 | 272 | 47.032 | 41.417 | 46.995- | 28.461 | 1.883- | 30.089 | .036- | 106.5 | 30.241 | 28.299 | 1.227 | 465 |
| 300 | 06 | 276 | 28.404 | 29.423 | 28.229- | 20.963 | 3.157 | 20.648 | .183 | 42.5 | 22.642 | 18.791 | 1.237 | 460 |
| 300 | 09 | 262 | 44.783 | 40.345 | 44.364- | 29.821 | 6.111- | 27.175 | .218 | 33.5 | 31.727 | 24.923 | 1.385 | 510 |
| 200 | 12 | 268 | 76.395 | 41.244 | 76.347- | 26.265 | 2.699- | 31.800 | .095 | 77.0 | 32.091 | 25.909 | 1.295 | 481 |
| 200 | 03 | 273 | 51.467 | 41.035 | 51.399- | 28.084 | 2.645 | 29.918 | .196 | 54.0 | 31.859 | 25.861 | 1.228 | 464 |
| 200 | 06 | 281 | 33.532 | 35.884 | 32.963- | 25.233 | 6.154 | 25.514 | .251 | 46.5 | 28.394 | 21.942 | 1.264 | 462 |
| 200 | 09 | 263 | 52.722 | 38.966 | 52.344- | 28.463 | 6.297- | 26.611 | .251 | 37.5 | 30.924 | 23.707 | 1.363 | 519 |

## Selected Point - 40°40'N.-082°00'W.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 269 | 32.847 | 23.188 | 32.840- | 14.979 | 0.683- | 17.701 | .083 | 77.0 | 17.847 | 14.804 | 1.274 | 483 |
| 700 | 03 | 277 | 23.498 | 24.422 | 23.320- | 16.333 | 2.887 | 18.157 | .244 | 56.5 | 19.423 | 14.806 | 1.208 | 460 |
| 700 | 06 | 275 | 16.796 | 17.324 | 16.734- | 12.917 | 1.438 | 11.544 | .148 | 26.5 | 13.334 | 11.060 | 1.210 | 460 |
| 700 | 09 | 267 | 20.713 | 23.115 | 20.690- | 16.790 | 0.976- | 15.886 | .053 | 22.0 | 16.960 | 15.705 | 1.233 | 516 |
| 500 | 12 | 267 | 52.296 | 35.324 | 52.220- | 22.984 | 2.808- | 26.824 | .124 | 70.5 | 27.319 | 22.393 | 1.297 | 483 |
| 500 | 03 | 275 | 34.075 | 33.806 | 33.943- | 22.814 | 3.002 | 24.947 | .154 | 60.0 | 25.940 | 21.679 | 1.258 | 458 |
| 500 | 06 | 274 | 22.761 | 20.242 | 22.695- | 15.306 | 1.732 | 13.246 | .135 | 21.5 | 15.658 | 12.828 | 1.256 | 460 |
| 500 | 09 | 267 | 32.643 | 32.370 | 32.596- | 23.233 | 1.757- | 22.540 | .111 | 37.5 | 24.172 | 21.530 | 1.364 | 516 |
| 300 | 12 | 267 | 73.688 | 46.364 | 73.593- | 30.786 | 3.741- | 34.668 | .075 | 74.0 | 35.006 | 30.401 | 1.271 | 483 |
| 300 | 03 | 274 | 48.079 | 43.978 | 47.961- | 29.666 | 3.376 | 32.465 | .109 | 65.0 | 33.217 | 28.821 | 1.230 | 459 |
| 300 | 06 | 278 | 34.017 | 28.862 | 33.717- | 21.344 | 4.506 | 19.428 | .200 | 32.5 | 22.544 | 18.021 | 1.286 | 460 |
| 300 | 09 | 266 | 47.810 | 45.559 | 47.676- | 34.013 | 3.584- | 30.310 | .159 | 27.0 | 35.231 | 28.885 | 1.363 | 516 |
| 200 | 12 | 267 | 78.503 | 43.390 | 78.408- | 27.888 | 3.870- | 33.240 | .129 | 72.0 | 33.827 | 27.173 | 1.284 | 483 |
| 200 | 03 | 273 | 51.678 | 41.777 | 51.617- | 29.430 | 2.520 | 29.650 | .226 | 46.0 | 32.717 | 25.978 | 1.261 | 460 |
| 200 | 06 | 278 | 41.531 | 35.884 | 41.163- | 25.857 | 5.522 | 24.881 | .228 | 40.0 | 28.161 | 22.240 | 1.250 | 457 |
| 200 | 09 | 266 | 54.590 | 44.696 | 54.479- | 32.801 | 3.474- | 30.361 | .274 | 37.0 | 35.815 | 26.739 | 1.356 | 515 |

## Selected Point - 37°20'N.-112°20'W.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 500 | 12 | 277 | 28.137 | 34.136 | 27.917- | 22.995 | 3.508 | 25.229 | .237 | 55.5 | 27.033 | 20.844 | 1.212 | 483 |
| 500 | 03 | 270 | 21.582 | 29.757 | 21.581- | 19.270 | 0.158 | 22.675 | .146 | 69.0 | 23.206 | 18.627 | 1.226 | 460 |
| 500 | 06 | 243 | 16.949 | 16.909 | 15.054- | 11.578 | 7.786- | 12.323 | .160 | 55.5 | 12.943 | 10.881 | 1.276 | 460 |
| 500 | 09 | 277 | 18.521 | 27.392 | 18.365- | 18.177 | 2.394 | 20.493 | .001- | 90.5 | 20.493 | 18.177 | 1.273 | 515 |
| 300 | 12 | 276 | 44.977 | 49.302 | 44.689- | 33.429 | 5.089 | 36.238 | .309 | 52.5 | 40.040 | 28.766 | 1.213 | 476 |
| 300 | 03 | 271 | 35.456 | 42.310 | 35.450- | 27.566 | 0.615 | 32.097 | .223 | 62.0 | 33.685 | 25.602 | 1.207 | 456 |
| 300 | 06 | 247 | 29.435 | 26.890 | 27.037- | 18.141 | 11.635- | 19.848 | .279 | 54.0 | 21.619 | 15.989 | 1.270 | 458 |
| 300 | 09 | 275 | 30.490 | 38.542 | 30.361- | 25.780 | 2.811 | 28.650 | .072 | 73.0 | 28.935 | 25.459 | 1.249 | 512 |
| 200 | 12 | 274 | 53.770 | 46.130 | 53.656- | 31.203 | 3.515 | 33.977 | .191 | 57.0 | 35.866 | 29.012 | 1.249 | 480 |
| 200 | 03 | 269 | 41.823 | 42.509 | 41.817- | 27.681 | 0.667- | 32.261 | .203 | 63.5 | 33.637 | 25.992 | 1.235 | 457 |
| 200 | 06 | 246 | 39.117 | 33.287 | 35.770- | 22.083 | 15.833- | 24.908 | .249 | 58.0 | 26.579 | 20.041 | 1.270 | 458 |
| 200 | 09 | 274 | 39.576 | 40.876 | 39.463- | 28.237 | 2.990 | 29.555 | .139 | 54.0 | 30.956 | 26.694 | 1.291 | 509 |

## 4. Mexico — Guaymas, Son., Mexico

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 259 | 12.091 | 16.514 | 11.861- | 11.469 | 2.348- | 11.882 | .160 | 51.0 | 12.601 | 10.675 | 1.216 | 449 |
| 700 | 03 | 251 | 12.913 | 15.808 | 12.184- | 11.720 | 4.276- | 10.608 | .013 | 4.0 | 11.724 | 10.603 | 1.280 | 460 |
| 700 | 06 | 135 | 5.112 | 11.419 | 3.584 | 8.739 | 3.645- | 7.350 | .232 | 26.5 | 9.158 | 06.821 | 1.155 | 459 |
| 700 | 09 | 199 | 3.458 | 14.346 | 1.103- | 11.250 | 3.277- | 8.902 | .225 | 22.0 | 11.644 | 08.380 | 1.192 | 454 |
| 500 | 12 | 266 | 28.009 | 27.131 | 27.953- | 18.844 | 1.766- | 19.519 | .202 | 50.0 | 21.061 | 17.103 | 1.350 | 451 |
| 500 | 03 | 258 | 25.474 | 21.384 | 24.925- | 14.004 | 5.260- | 16.161 | .203 | 62.5 | 16.885 | 13.122 | 1.322 | 460 |
| 500 | 06 | 152 | 6.156 | 14.285 | 2.871 | 11.702 | 5.445- | 8.194 | .295 | 19.5 | 12.124 | 07.556 | 1.134 | 460 |
| 500 | 09 | 251 | 9.220 | 20.662 | 8.739- | 16.929 | 2.940- | 11.845 | .185 | 13.5 | 17.189 | 11.464 | 1.266 | 454 |
| 300 | 12 | 264 | 49.525 | 38.998 | 49.220- | 24.069 | 5.486- | 30.684 | .390 | 61.0 | 33.177 | 20.496 | 1.296 | 451 |
| 300 | 03 | 260 | 46.024 | 31.143 | 45.366- | 21.830 | 7.756- | 22.211 | .219 | 47.5 | 24.325 | 19.447 | 1.373 | 460 |
| 300 | 06 | 198 | 7.379 | 22.423 | 2.253- | 18.370 | 7.027- | 12.859 | .306 | 20.0 | 19.075 | 11.789 | 1.135 | 459 |
| 300 | 09 | 257 | 25.335 | 30.930 | 24.730- | 24.086 | 5.503- | 19.404 | .267 | 25.5 | 25.288 | 17.810 | 1.368 | 449 |
| 200 | 12 | 265 | 57.747 | 40.858 | 57.528- | 24.767 | 5.024- | 32.497 | .364 | 63.5 | 34.676 | 21.611 | 1.263 | 449 |
| 200 | 03 | 259 | 56.277 | 33.573 | 55.217- | 21.402 | 10.865- | 25.867 | .275 | 62.5 | 27.366 | 19.449 | 1.310 | 460 |
| 200 | 06 | 214 | 9.646 | 28.243 | 5.374- | 23.507 | 8.010- | 15.656 | .292 | 17.5 | 24.218 | 14.532 | 1.169 | 456 |
| 200 | 09 | 258 | 32.134 | 31.634 | 31.420- | 23.307 | 6.735- | 21.389 | .287 | 36.5 | 25.491 | 18.733 | 1.330 | 450 |

## Mazatlan, Sin., Mexico

| P | J | $\bar{\Theta}$ | $\lvert\bar{V}\rvert$ | $S_V$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_V/S_S$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 241 | 9.549 | 13.081 | 8.316- | 9.361 | 4.692- | 9.136 | .003 | 4.0 | 9.372 | 9.125 | 1.187 | 449 |
| 700 | 03 | 258 | 8.534 | 12.531 | 8.351- | 9.082 | 1.759- | 8.634 | .038 | 19.0 | 9.153 | 8.558 | 1.218 | 459 |
| 700 | 06 | 107 | 6.617 | 10.721 | 6.317 | 7.973 | 1.970- | 7.168 | .178- | 150.0 | 8.329 | 6.751 | 1.171 | 453 |
| 700 | 09 | 129 | 4.128 | 12.525 | 3.220 | 10.287 | 2.583- | 7.145 | .017 | 1.5 | 10.287 | 7.145 | 1.158 | 451 |
| 500 | 12 | 253 | 20.005 | 20.184 | 19.127- | 14.414 | 5.862- | 14.129 | .215 | 42.5 | 15.749 | 12.624 | 1.300 | 447 |
| 500 | 03 | 251 | 19.445 | 16.878 | 18.348- | 12.654 | 6.438- | 11.169 | .203 | 29.0 | 13.281 | 10.416 | 1.353 | 449 |
| 500 | 06 | 114 | 8.514 | 11.160 | 7.757 | 8.667 | 3.508- | 7.031 | .170 | 19.5 | 8.876 | 6.765 | 1.146 | 457 |
| 500 | 09 | 198 | 3.484 | 16.147 | 1.058- | 13.345 | 3.319- | 9.092 | .072 | 5.0 | 13.373 | 9.051 | 1.134 | 449 |
| 300 | 12 | 256 | 37.544 | 28.555 | 36.464- | 19.175 | 8.942- | 21.159 | .340 | 52.5 | 23.485 | 16.243 | 1.325 | 446 |
| 300 | 03 | 255 | 35.519 | 22.785 | 34.315- | 17.005 | 9.170- | 15.165 | .212 | 31.0 | 17.938 | 14.049 | 1.385 | 457 |
| 300 | 06 | 117 | 7.683 | 16.341 | 6.832 | 13.417 | 3.516- | 9.327 | .214 | 15.0 | 13.683 | 8.933 | 1.117 | 456 |
| 300 | 09 | 247 | 14.320 | 24.369 | 13.192- | 19.393 | 5.570- | 14.757 | .151 | 14.5 | 19.677 | 14.376 | 1.184 | 450 |
| 200 | 12 | 259 | 46.599 | 31.758 | 45.680- | 20.278 | 9.210- | 24.442 | .273 | 62.0 | 25.862 | 18.432 | 1.293 | 446 |
| 200 | 03 | 254 | 47.035 | 26.381 | 45.114- | 17.767 | 13.302- | 19.501 | .206 | 56.5 | 20.657 | 16.408 | 1.355 | 457 |
| 200 | 06 | 115 | 8.199 | 22.638 | 7.446 | 18.701 | 3.433- | 12.757 | .232 | 15.5 | 19.104 | 12.146 | 1.118 | 448 |
| 200 | 09 | 254 | 17.512 | 28.099 | 16.874- | 22.395 | 4.684- | 16.972 | .045 | 4.5 | 22.424 | 16.933 | 1.164 | 444 |

## Merida, Yuc., Mexico

| P | J | $\bar{\Theta}$ | $\lvert\bar{V}\rvert$ | $S_V$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_V/S_S$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 119 | 7.017 | 15.639 | 6.135 | 11.511 | 3.404- | 10.587 | .265- | 143.5 | 12.504 | 9.394 | 1.217 | 140 |
| 850 | 03 | 126 | 9.849 | 13.520 | 7.992 | 9.478 | 5.755- | 9.642 | .315- | 133.5 | 10.963 | 7.913 | 1.275 | 152 |
| 850 | 06 | 111 | 11.790 | 9.744 | 11.033 | 7.126 | 4.158- | 6.647 | .381- | 140.0 | 8.112 | 5.400 | 1.414 | 152 |
| 850 | 09 | 088 | 6.308 | 12.234 | 6.303 | 8.127 | 0.246 | 9.144 | .290- | 124.0 | 9.910 | 7.173 | 1.128 | 137 |
| 700 | 12 | 165 | 3.631 | 12.746 | 0.957 | 10.584 | 3.502- | 7.101 | .052- | 176.5 | 10.598 | 7.081 | 1.097 | 451 |
| 700 | 03 | 187 | 3.002 | 12.436 | 0.359- | 9.802 | 2.981- | 7.654 | .188- | 161.5 | 10.042 | 7.336 | 1.099 | 460 |
| 700 | 06 | 118 | 9.227 | 8.508 | 8.116 | 6.643 | 4.390- | 5.316 | .014 | 2.0 | 6.643 | 5.316 | 1.172 | 460 |
| 700 | 09 | 128 | 4.645 | 9.929 | 3.641 | 7.640 | 2.885- | 6.341 | .023 | 3.5 | 7.649 | 6.331 | 1.103 | 455 |
| 500 | 12 | 239 | 9.778 | 17.866 | 8.416- | 14.883 | 4.978- | 9.883 | .053- | 176.5 | 14.901 | 9.856 | 1.176 | 451 |
| 500 | 03 | 257 | 11.031 | 13.339 | 10.767- | 10.548 | 2.398- | 8.165 | .044 | 5.0 | 10.565 | 8.144 | 1.168 | 459 |
| 500 | 06 | 112 | 6.455 | 9.883 | 5.971 | 7.987 | 2.452- | 5.820 | .051- | 175.5 | 8.001 | 5.801 | 1.132 | 460 |
| 500 | 09 | 191 | 2.762 | 12.000 | 0.513- | 10.093 | 2.714- | 6.492 | .040- | 177.5 | 10.100 | 6.481 | 1.096 | 455 |
| 300 | 12 | 257 | 27.283 | 24.177 | 26.606- | 20.109 | 6.039- | 13.421 | .112 | 7.5 | 20.212 | 13.265 | 1.448 | 442 |
| 300 | 03 | 262 | 27.840 | 19.414 | 27.575- | 14.628 | 3.833- | 12.764 | .084 | 16.0 | 14.776 | 12.592 | 1.324 | 429 |
| 300 | 06 | 117 | 4.279 | 15.708 | 3.825 | 12.998 | 1.919- | 8.820 | .098- | 173.0 | 13.052 | 8.739 | 1.132 | 368 |
| 300 | 09 | 242 | 10.404 | 21.881 | 9.224- | 18.787 | 4.813- | 11.218 | .317 | 15.5 | 19.267 | 10.371 | 1.206 | 364 |
| 200 | 12 | 255 | 36.944 | 25.742 | 35.683- | 20.100 | 9.571- | 16.082 | .071 | 9.0 | 20.186 | 15.973 | 1.467 | 447 |
| 200 | 03 | 262 | 40.502 | 25.878 | 40.143- | 18.806 | 5.380- | 17.777 | .118 | 32.0 | 19.459 | 17.060 | 1.395 | 428 |
| 200 | 06 | 097 | 4.450 | 21.291 | 4.416 | 16.303 | 0.551- | 12.081 | .011- | 179.0 | 16.303 | 12.081 | 1.104 | 368 |
| 200 | 09 | 248 | 13.301 | 26.314 | 12.323- | 21.869 | 5.006- | 14.635 | .252 | 15.5 | 22.385 | 13.832 | 1.176 | 364 |

## Mexico City, D.F., Mexico

| P | J | $\bar{\Theta}$ | $\lvert\bar{V}\rvert$ | $S_V$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_V/S_S$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 180 | 3.263 | 13.157 | 0.001- | 9.799 | 3.263- | 8.779 | .033- | 171.5 | 9.820 | 8.755 | 1.120 | 449 |
| 700 | 03 | 204 | 3.030 | 11.063 | 1.252- | 8.107 | 2.758- | 7.528 | .029- | 169.0 | 8.129 | 7.505 | 1.154 | 460 |
| 700 | 06 | 106 | 6.130 | 9.850 | 5.891 | 7.435 | 1.694- | 6.461 | .304- | 147.5 | 8.040 | 5.690 | 1.256 | 456 |
| 700 | 09 | 084 | 4.514 | 10.217 | 4.488 | 7.083 | 0.486 | 7.363 | .113- | 125.5 | 7.644 | 6.778 | 1.133 | 453 |
| 500 | 12 | 235 | 10.323 | 18.732 | 8.455- | 14.061 | 5.924- | 12.377 | .031- | 173.0 | 14.085 | 12.349 | 1.168 | 445 |
| 500 | 03 | 243 | 8.897 | 16.065 | 7.944- | 12.437 | 4.007- | 10.170 | .071 | 9.5 | 12.499 | 10.094 | 1.151 | 460 |
| 500 | 06 | 106 | 10.319 | 10.368 | 9.939 | 7.795 | 2.775- | 6.837 | .065 | 13.0 | 7.848 | 6.777 | 1.241 | 460 |
| 500 | 09 | 110 | 4.883 | 13.953 | 4.583 | 11.378 | 1.684- | 8.076 | .086- | 173.0 | 11.420 | 8.016 | 1.153 | 448 |
| 300 | 12 | 251 | 24.711 | 24.478 | 23.336- | 17.603 | 8.130- | 17.009 | .106 | 36.0 | 18.254 | 16.309 | 1.206 | 451 |
| 300 | 03 | 253 | 23.158 | 19.767 | 22.123- | 15.477 | 6.849- | 12.297 | .148 | 16.5 | 15.742 | 11.956 | 1.288 | 460 |
| 300 | 06 | 108 | 9.623 | 13.570 | 9.145 | 10.840 | 2.993- | 8.164 | .104- | 170.0 | 10.915 | 8.063 | 1.145 | 454 |
| 300 | 09 | 211 | 4.540 | 21.612 | 2.343- | 17.580 | 3.889- | 12.571 | .070 | 6.0 | 17.625 | 12.508 | 1.097 | 433 |
| 200 | 12 | 254 | 31.971 | 28.086 | 30.754- | 19.832 | 8.737- | 19.887 | .102 | 45.5 | 20.855 | 18.812 | 1.305 | 444 |
| 200 | 03 | 254 | 35.163 | 24.298 | 33.729- | 17.703 | 9.940- | 16.643 | .081 | 26.5 | 18.039 | 16.279 | 1.321 | 460 |
| 200 | 06 | 102 | 11.147 | 19.379 | 10.916 | 15.541 | 2.261- | 11.577 | .149- | 166.5 | 15.744 | 11.300 | 1.120 | 442 |
| 200 | 09 | 235 | 8.131 | 25.964 | 6.634- | 21.543 | 4.702- | 14.492 | .114 | 8.0 | 21.656 | 14.322 | 1.119 | 421 |

## 5. Caribbean

## Balboa, Canal Zone

| P | J | $\bar{\Theta}$ | $\lvert\bar{V}\rvert$ | $S_V$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_V/S_S$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 037 | 13.251 | 9.031 | 7.982 | 6.145 | 10.577 | 6.618 | .078 | 67.0 | 6.718 | 6.036 | 1.361 | 423 |
| 850 | 03 | 031 | 9.406 | 9.270 | 4.886 | 5.364 | 8.038 | 7.560 | .319 | 69.0 | 7.885 | 4.873 | 1.359 | 402 |
| 850 | 06 | 075 | 7.096 | 6.571 | 6.854 | 4.842 | 1.838 | 4.442 | .165 | 31.5 | 5.064 | 4.187 | 1.275 | 369 |
| 850 | 09 | 069 | 5.402 | 8.711 | 5.039 | 6.065 | 1.947 | 6.254 | .428 | 47.0 | 7.365 | 4.652 | 1.174 | 421 |
| 700 | 12 | 072 | 7.594 | 9.366 | 7.213 | 7.525 | 2.375 | 5.576 | .037 | 3.5 | 7.529 | 5.570 | 1.238 | 421 |
| 700 | 03 | 094 | 5.822 | 9.191 | 5.808 | 7.679 | 0.410- | 5.050 | .177 | 11.0 | 7.766 | 4.915 | 1.269 | 401 |
| 700 | 06 | 103 | 10.404 | 8.843 | 10.119 | 7.053 | 2.417- | 5.334 | .044- | 175.5 | 7.062 | 5.322 | 1.364 | 365 |
| 700 | 09 | 096 | 7.018 | 9.664 | 6.974 | 7.557 | 0.784- | 6.024 | .197 | 20.5 | 7.775 | 5.740 | 1.225 | 420 |
| 500 | 12 | 082 | 8.017 | 13.333 | 7.929 | 11.037 | 1.185 | 7.480 | .013- | 179.0 | 11.037 | 7.480 | 1.262 | 468 |
| 500 | 03 | 114 | 6.461 | 13.999 | 5.913 | 12.203 | 2.604- | 6.860 | .088 | 4.0 | 12.225 | 6.820 | 1.254 | 304 |
| 500 | 06 | 108 | 11.258 | 10.522 | 10.730 | 8.434 | 3.405- | 6.291 | .028- | 177.0 | 8.441 | 6.283 | 1.310 | 342 |
| 500 | 09 | 102 | 5.981 | 11.600 | 5.844 | 9.323 | 1.272- | 6.902 | .256 | 20.0 | 9.641 | 6.450 | 1.202 | 409 |
| 300 | 12 | 237 | 13.131 | 21.953 | 11.006- | 15.793 | 7.162- | 15.248 | .087 | 34.0 | 16.251 | 14.759 | 1.208 | 371 |
| 300 | 03 | 239 | 4.444 | 17.630 | 3.794- | 12.564 | 2.314- | 12.367 | .142 | 42.0 | 13.326 | 11.543 | 1.218 | 327 |
| 300 | 06 | 112 | 6.644 | 11.255 | 6.156 | 8.446 | 2.498- | 7.439 | .019 | 4.0 | 8.448 | 7.438 | 1.166 | 305 |
| 300 | 09 | 105 | 4.780 | 13.930 | 4.611 | 11.171 | 1.261- | 8.321 | .089 | 8.5 | 11.226 | 8.247 | 1.223 | 386 |
| 200 | 12 | 233 | 21.860 | 28.514 | 17.424- | 22.151 | 13.201- | 17.955 | .085 | 11.0 | 22.292 | 17.779 | 1.231 | 331 |
| 200 | 03 | 245 | 10.171 | 22.196 | 9.219- | 17.555 | 4.296- | 13.583 | .035- | 176.0 | 17.569 | 13.566 | 1.206 | 295 |
| 200 | 06 | 073 | 6.096 | 16.898 | 5.845 | 11.501 | 1.733 | 12.380 | .040 | 76.0 | 12.455 | 11.420 | 1.185 | 272 |
| 200 | 09 | 106 | 5.688 | 20.148 | 5.461 | 15.631 | 1.590- | 12.713 | .148 | 18.0 | 15.930 | 12.337 | 1.185 | 347 |

## Cayenne, French Guiana

| P | J | $\bar{\theta}$ | $\bar{\|V\|}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 082 | 16.207 | 10.675 | 16.055 | 6.590 | 2.212 | 8.398 | .301- | 115.5 | 8.858 | 5.957 | 1.225 | 244 |
| 850 | 03 | 077 | 16.274 | 10.826 | 15.858 | 7.449 | 3.657 | 7.855 | .014- | 98.0 | 7.863 | 7.442 | 1.336 | 238 |
| 850 | 06 | 118 | 14.374 | 10.461 | 12.673 | 7.323 | 6.783- | 7.471 | .036 | 59.5 | 7.535 | 7.258 | 1.364 | 268 |
| 850 | 09 | 100 | 16.070 | 10.752 | 15.808 | 8.275 | 2.891- | 6.865 | .055- | 172.0 | 8.301 | 6.833 | 1.488 | 313 |
| 700 | 12 | 091 | 12.581 | 10.525 | 12.577 | 7.607 | 0.322- | 7.274 | .216- | 141.0 | 8.224 | 6.568 | 1.309 | 114 |
| 700 | 03 | 084 | 12.900 | 10.145 | 12.819 | 7.960 | 1.447 | 6.290 | .110 | 12.5 | 8.034 | 6.195 | 1.410 | 153 |
| 700 | 06 | 101 | 12.679 | 10.306 | 12.453 | 7.852 | 2.386- | 6.675 | .017 | 3.0 | 7.851 | 6.676 | 1.327 | 185 |
| 700 | 09 | 102 | 14.714 | 10.226 | 14.384 | 7.650 | 3.097- | 6.786 | .119- | 157.5 | 7.811 | 6.599 | 1.423 | 197 |
| 500 | 12 | 084 | 2.935 | 10.400 | 2.922 | 8.847 | 0.282 | 5.468 | .145 | 8.0 | 8.903 | 5.376 | 1.171 | 57 |
| 500 | 03 | 082 | 6.082 | 11.497 | 6.029 | 9.846 | 0.808 | 5.936 | .138 | 7.5 | 9.898 | 5.848 | 1.193 | 111 |
| 500 | 06 | 086 | 13.255 | 8.689 | 13.219 | 6.805 | 0.981 | 5.403 | .158- | 163.0 | 6.936 | 5.234 | 1.484 | 102 |
| 500 | 09 | 076 | 10.891 | 10.766 | 10.559 | 8.435 | 2.666 | 6.691 | .018 | 2.0 | 8.434 | 6.692 | 1.289 | 91 |
| 300 | 12 | 259 | 7.181 | 15.182 | 7.044- | 12.829 | 1.398- | 8.118 | .354 | 18.5 | 13.297 | 7.326 | 1.145 | 38 |
| 300 | 03 | 261 | 3.448 | 14.352 | 3.406- | 11.293 | 0.536- | 8.858 | .264 | 23.5 | 11.793 | 8.180 | 1.175 | 97 |
| 300 | 06 | 085 | 10.286 | 9.858 | 10.246 | 7.934 | 0.903 | 5.850 | .171 | 14.5 | 8.066 | 5.667 | 1.246 | 82 |
| 300 | 09 | 117 | 2.458 | 11.872 | 2.198 | 9.920 | 1.100- | 6.522 | .293 | 17.0 | 10.210 | 6.058 | 1.134 | 68 |
| 200 | 12 | 216 | 10.090 | 18.250 | 5.876- | 13.775 | 8.203- | 11.972 | .126 | 21.0 | 14.062 | 11.633 | 1.202 | 31 |
| 200 | 03 | 233 | 9.235 | 16.781 | 7.415- | 13.492 | 5.505- | 9.979 | .077- | 173.0 | 13.539 | 9.915 | 1.219 | 83 |
| 200 | 06 | 074 | 2.926 | 12.375 | 2.816 | 10.618 | 0.792 | 6.356 | .075- | 176.0 | 10.636 | 6.326 | 1.157 | 75 |
| 200 | 09 | 236 | 5.156 | 14.746 | 4.296- | 11.700 | 2.850- | 8.975 | .281 | 23.0 | 12.233 | 8.234 | 1.115 | 60 |

## Guantanamo, Cuba

| P | J | $\bar{\theta}$ | $\bar{\|V\|}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 083 | 13.104 | 12.632 | 13.002 | 10.576 | 1.627 | 6.908 | .156 | 10.0 | 10.670 | 6.761 | 1.367 | 416 |
| 850 | 03 | 093 | 6.514 | 9.820 | 6.504 | 7.601 | 0.351- | 6.217 | .147 | 18.0 | 7.750 | 6.030 | 1.305 | 397 |
| 850 | 06 | 101 | 13.241 | 9.692 | 13.003 | 7.485 | 2.500- | 6.157 | .098 | 13.5 | 7.560 | 6.066 | 1.376 | 420 |
| 850 | 09 | 100 | 9.758 | 11.357 | 9.602 | 8.607 | 1.734- | 7.410 | .170 | 24.5 | 8.886 | 7.074 | 1.299 | 421 |
| 700 | 12 | 088 | 7.771 | 13.819 | 7.764 | 11.341 | 0.329 | 7.895 | .121 | 9.0 | 11.419 | 7.782 | 1.196 | 451 |
| 700 | 03 | 109 | 3.491 | 11.563 | 3.298 | 8.894 | 1.143- | 7.389 | .152 | 19.5 | 9.090 | 7.146 | 1.161 | 460 |
| 700 | 06 | 105 | 11.757 | 10.148 | 11.354 | 7.570 | 3.050- | 6.757 | .042 | 10.0 | 7.602 | 6.722 | 1.322 | 460 |
| 700 | 09 | 108 | 6.738 | 11.031 | 6.426 | 8.512 | 2.029- | 7.016 | .121 | 16.0 | 8.636 | 6.864 | 1.209 | 455 |
| 500 | 12 | 322 | 3.875 | 17.681 | 2.396- | 14.775 | 3.046 | 9.712 | .181 | 11.5 | 14.952 | 9.437 | 1.118 | 451 |
| 500 | 03 | 280 | 8.382 | 14.477 | 8.257- | 11.687 | 1.441 | 8.545 | .044 | 4.0 | 11.700 | 8.527 | 1.171 | 459 |
| 500 | 06 | 101 | 7.510 | 10.469 | 7.379 | 8.544 | 1.396- | 6.051 | .166 | 12.5 | 8.656 | 5.888 | 1.199 | 460 |
| 500 | 09 | 093 | 2.671 | 13.192 | 2.667 | 10.120 | 0.141- | 8.463 | .081 | 12.5 | 10.196 | 8.370 | 1.136 | 455 |
| 300 | 12 | 277 | 25.336 | 24.969 | 25.154- | 20.240 | 3.031 | 14.621 | .262 | 19.0 | 20.899 | 13.663 | 1.235 | 441 |
| 300 | 03 | 280 | 25.916 | 19.853 | 25.545- | 15.159 | 4.365 | 12.820 | .208 | 25.5 | 15.791 | 12.033 | 1.245 | 429 |
| 300 | 06 | 061 | 1.752 | 15.437 | 1.535 | 12.493 | 0.846 | 9.068 | .072 | 6.0 | 12.527 | 9.021 | 1.130 | 368 |
| 300 | 09 | 288 | 4.984 | 19.350 | 4.729- | 15.622 | 1.574 | 11.420 | .066 | 6.0 | 15.656 | 11.373 | 1.141 | 364 |
| 200 | 12 | 276 | 36.325 | 28.022 | 36.153- | 20.895 | 3.529 | 18.672 | .231 | 32.0 | 22.196 | 17.106 | 1.291 | 447 |
| 200 | 03 | 279 | 41.653 | 26.088 | 41.125- | 19.817 | 6.607 | 16.967 | .198 | 26.0 | 20.613 | 15.991 | 1.299 | 428 |
| 200 | 06 | 298 | 3.359 | 20.206 | 2.953- | 16.537 | 1.602 | 11.610 | .089 | 7.0 | 16.600 | 11.519 | 1.140 | 368 |
| 200 | 09 | 284 | 9.389 | 25.057 | 9.104- | 20.479 | 2.294 | 14.439 | .067 | 5.5 | 20.528 | 14.369 | 1.143 | 364 |

## Havana, Cuba

| P | J | $\bar{\theta}$ | $\bar{\|V\|}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 088 | 7.039 | 13.499 | 7.036 | 10.865 | 0.198 | 8.011 | .051- | 175.5 | 10.885 | 7.984 | 1.150 | 320 |
| 850 | 03 | 143 | 3.900 | 12.301 | 2.364 | 8.561 | 3.102- | 8.832 | .171 | 50.0 | 9.434 | 7.893 | 1.166 | 356 |
| 850 | 06 | 114 | 7.209 | 8.997 | 6.587 | 6.873 | 2.928- | 5.805 | .067 | 11.0 | 6.915 | 5.755 | 1.268 | 391 |
| 850 | 09 | 102 | 5.841 | 12.076 | 5.706 | 8.975 | 1.249- | 8.080 | .191 | 30.5 | 9.423 | 7.552 | 1.171 | 417 |
| 700 | 12 | 252 | 0.692 | 15.749 | 0.659- | 12.954 | 0.209- | 8.956 | .122 | 9.0 | 13.041 | 8.829 | 1.140 | 451 |
| 700 | 03 | 262 | 3.141 | 13.187 | 3.113- | 10.137 | 0.416- | 8.436 | .017- | 177.5 | 10.134 | 8.438 | 1.161 | 460 |
| 700 | 06 | 114 | 6.284 | 9.112 | 5.757 | 7.115 | 2.520- | 5.692 | .085 | 10.5 | 7.158 | 5.638 | 1.240 | 460 |
| 700 | 09 | 142 | 2.347 | 12.746 | 1.450 | 9.777 | 1.846- | 8.178 | .089 | 13.0 | 9.863 | 8.074 | 1.147 | 455 |
| 500 | 12 | 274 | 12.705 | 19.623 | 12.673- | 16.007 | 0.907 | 11.351 | .019 | 14.5 | 16.291 | 10.939 | 1.278 | 452 |
| 500 | 03 | 278 | 15.651 | 16.499 | 15.501- | 12.451 | 2.162 | 10.825 | .133 | 22.0 | 12.741 | 10.483 | 1.295 | 460 |
| 500 | 06 | 106 | 4.236 | 10.983 | 4.075 | 8.280 | 1.156- | 7.215 | .094 | 17.5 | 8.386 | 7.092 | 1.165 | 460 |
| 500 | 09 | 251 | 2.975 | 14.998 | 2.818- | 11.557 | 0.953- | 9.559 | .226 | 25.0 | 12.048 | 8.933 | 1.149 | 455 |
| 300 | 12 | 270 | 31.697 | 28.823 | 31.697- | 23.607 | 0.109- | 16.537 | .332 | 21.0 | 24.655 | 14.929 | 1.432 | 446 |
| 300 | 03 | 274 | 35.768 | 24.880 | 35.682- | 18.551 | 2.474 | 16.580 | .135 | 25.0 | 19.063 | 15.989 | 1.406 | 427 |
| 300 | 06 | 055 | 5.173 | 17.405 | 4.261 | 13.056 | 2.934 | 11.510 | .115 | 21.5 | 13.304 | 11.222 | 1.143 | 368 |
| 300 | 09 | 270 | 11.997 | 24.596 | 11.997- | 19.595 | 0.080 | 14.866 | .315 | 24.0 | 20.619 | 13.410 | 1.218 | 364 |
| 200 | 12 | 267 | 42.952 | 30.486 | 42.875- | 24.369 | 2.580- | 18.317 | .308 | 23.5 | 25.563 | 16.612 | 1.504 | 450 |
| 200 | 03 | 275 | 49.328 | 30.363 | 49.167- | 21.726 | 3.974 | 21.212 | .113 | 39.0 | 22.684 | 20.184 | 1.348 | 429 |
| 200 | 06 | 036 | 7.611 | 24.556 | 4.512 | 18.348 | 6.129 | 16.319 | .109 | 21.5 | 18.699 | 15.916 | 1.155 | 368 |
| 200 | 09 | 271 | 17.135 | 32.618 | 17.133- | 24.182 | 0.244 | 21.889 | .412 | 38.0 | 27.505 | 17.533 | 1.229 | 364 |

## San Juan, Puerto Rico

| P | J | $\bar{\theta}$ | $\bar{\|V\|}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 088 | 12.826 | 11.200 | 12.818 | 8.503 | 0.430 | 7.290 | .171- | 156.0 | 8.773 | 6.963 | 1.283 | 448 |
| 850 | 03 | 117 | 10.709 | 10.216 | 9.507 | 7.632 | 4.930- | 6.790 | .001- | 179.5 | 7.634 | 6.788 | 1.207 | 455 |
| 850 | 06 | 108 | 16.768 | 8.956 | 15.943 | 6.245 | 5.194- | 6.419 | .051 | 59.0 | 6.529 | 6.131 | 1.267 | 456 |
| 850 | 09 | 109 | 10.494 | 10.689 | 9.900 | 8.539 | 3.479- | 6.430 | .005- | 179.5 | 8.538 | 6.431 | 1.270 | 449 |
| 700 | 12 | 074 | 8.297 | 13.474 | 7.957 | 10.897 | 2.352 | 7.924 | .048- | 175.5 | 10.910 | 7.907 | 1.252 | 450 |
| 700 | 03 | 107 | 4.741 | 11.393 | 4.525 | 9.052 | 1.415- | 6.919 | .131 | 13.0 | 9.153 | 6.784 | 1.168 | 460 |
| 700 | 06 | 106 | 14.499 | 11.351 | 13.945 | 8.365 | 3.969- | 7.673 | .063 | 18.0 | 8.442 | 7.587 | 1.363 | 458 |
| 700 | 09 | 105 | 7.395 | 11.096 | 7.137 | 9.276 | 1.937- | 6.088 | .144 | 9.0 | 9.348 | 5.977 | 1.230 | 456 |
| 500 | 12 | 345 | 6.984 | 19.637 | 1.859- | 15.478 | 6.732 | 12.086 | .079 | 9.0 | 15.548 | 11.995 | 1.177 | 451 |
| 500 | 03 | 280 | 8.360 | 15.277 | 8.239- | 11.801 | 1.418 | 9.701 | .102 | 14.0 | 11.927 | 9.545 | 1.199 | 460 |
| 500 | 06 | 100 | 8.108 | 10.874 | 7.984 | 8.221 | 1.412- | 7.117 | .223 | 28.5 | 8.643 | 6.598 | 1.206 | 460 |
| 500 | 09 | 088 | 3.772 | 13.649 | 3.770 | 10.811 | 0.128 | 8.332 | .077 | 8.0 | 10.857 | 8.272 | 1.157 | 455 |
| 300 | 12 | 294 | 29.074 | 29.255 | 26.637- | 23.260 | 11.652 | 17.743 | .220 | 19.5 | 23.933 | 16.825 | 1.227 | 446 |
| 300 | 03 | 281 | 28.320 | 24.822 | 27.763- | 18.799 | 5.590 | 16.209 | .107 | 18.0 | 19.090 | 15.866 | 1.276 | 429 |
| 300 | 06 | 247 | 2.768 | 16.246 | 2.546- | 12.446 | 1.087- | 10.442 | .091 | 14.0 | 12.558 | 10.308 | 1.164 | 368 |
| 300 | 09 | 321 | 4.348 | 22.336 | 2.760- | 16.581 | 3.359 | 14.965 | .229 | 33.0 | 17.664 | 13.670 | 1.175 | 364 |
| 200 | 12 | 279 | 43.830 | 29.702 | 43.316- | 23.130 | 6.697 | 18.634 | .307 | 27.5 | 24.561 | 16.703 | 1.327 | 448 |
| 200 | 03 | 275 | 44.740 | 29.925 | 44.577- | 22.320 | 3.821 | 19.933 | .278 | 34.0 | 24.122 | 17.710 | 1.316 | 430 |
| 200 | 06 | 264 | 9.135 | 23.195 | 9.091- | 17.099 | 0.899- | 15.672 | .133 | 28.5 | 17.660 | 15.037 | 1.191 | 368 |
| 200 | 09 | 315 | 11.003 | 30.390 | 7.766- | 23.422 | 7.794 | 19.364 | .335 | 30.0 | 25.232 | 16.938 | 1.159 | 364 |

## Swan Island, West Indies

| P | J | $\bar{\theta}$ | $\bar{M}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 089 | 7.788 | 12.277 | 7.786 | 9.918 | 0.182 | 7.235 | .050- | 175.0 | 9.936 | 7.211 | 1.176 | 449 |
| 700 | 03 | 092 | 6.128 | 11.591 | 6.125 | 9.300 | 0.211- | 6.919 | .139- | 167.0 | 9.404 | 6.778 | 1.204 | 460 |
| 700 | 06 | 104 | 14.517 | 10.164 | 14.106 | 8.191 | 3.430- | 6.018 | .016 | 1.5 | 8.191 | 6.018 | 1.335 | 456 |
| 700 | 09 | 106 | 6.834 | 10.627 | 6.569 | 7.923 | 1.882- | 7.083 | .063 | 14.5 | 7.981 | 7.017 | 1.166 | 454 |
| 500 | 12 | 065 | 0.282 | 16.910 | 0.254 | 14.031 | 0.121 | 9.438 | .184 | 12.0 | 14.218 | 9.154 | 1.138 | 448 |
| 500 | 03 | 317 | 2.804 | 14.243 | 1.907- | 11.393 | 2.056 | 8.547 | .008 | 1.0 | 11.394 | 8.546 | 1.127 | 456 |
| 500 | 06 | 099 | 8.925 | 9.921 | 8.823 | 7.708 | 1.344- | 6.246 | .109 | 13.5 | 7.791 | 6.142 | 1.196 | 458 |
| 500 | 09 | 105 | 5.932 | 12.482 | 5.722 | 9.580 | 1.563- | 8.001 | .119 | 16.5 | 9.722 | 7.829 | 1.149 | 451 |
| 300 | 12 | 257 | 14.027 | 25.065 | 13.686- | 19.515 | 3.072- | 15.730 | .219 | 22.5 | 20.220 | 14.813 | 1.160 | 445 |
| 300 | 03 | 271 | 17.375 | 21.269 | 17.368- | 16.575 | 0.480 | 13.328 | .051 | 6.5 | 16.620 | 13.272 | 1.181 | 458 |
| 300 | 06 | 087 | 5.351 | 14.965 | 5.346 | 10.956 | 0.244 | 10.194 | .142 | 31.5 | 11.388 | 9.708 | 1.125 | 457 |
| 300 | 09 | 147 | 1.706 | 19.339 | 0.936 | 14.962 | 1.426- | 12.252 | .203 | 22.5 | 15.471 | 11.603 | 1.106 | 442 |
| 200 | 12 | 251 | 22.557 | 27.952 | 21.335- | 21.115 | 7.325- | 18.316 | .182 | 26.0 | 21.908 | 17.359 | 1.202 | 446 |
| 200 | 03 | 269 | 27.104 | 26.894 | 27.095- | 19.803 | 0.695- | 18.197 | .112 | 26.5 | 20.319 | 17.619 | 1.190 | 457 |
| 200 | 06 | 065 | 4.853 | 20.198 | 4.410 | 15.484 | 2.026 | 12.970 | .071 | 11.0 | 15.571 | 12.865 | 1.096 | 441 |
| 200 | 09 | 235 | 1.883 | 24.468 | 1.545- | 19.334 | 1.076- | 14.995 | .263 | 23.0 | 20.146 | 13.885 | 1.097 | 430 |

## 6. Atlantic Stations

### Bermuda, U.K.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 276 | 9.571 | 20.857 | 9.517- | 15.264 | 1.011 | 14.213 | .163 | 33.0 | 16.013 | 13.364 | 1.177 | 400 |
| 850 | 03 | 266 | 12.392 | 18.954 | 12.356- | 13.364 | 0.943- | 13.441 | .050- | 131.5 | 13.769 | 13.026 | 1.221 | 399 |
| 850 | 06 | 239 | 7.038 | 12.007 | 6.052- | 9.420 | 3.593- | 7.446 | .159 | 17.0 | 9.602 | 7.029 | 1.271 | 383 |
| 850 | 09 | 221 | 4.081 | 17.984 | 2.691- | 13.450 | 3.068- | 11.939 | .166 | 27.0 | 13.954 | 11.346 | 1.169 | 369 |
| 700 | 12 | 276 | 19.378 | 24.695 | 19.269- | 18.250 | 2.046 | 16.637 | .213 | 33.5 | 19.386 | 15.298 | 1.264 | 451 |
| 700 | 03 | 267 | 20.001 | 22.234 | 19.980- | 16.011 | 0.919- | 15.428 | .058 | 28.5 | 16.233 | 15.195 | 1.317 | 459 |
| 700 | 06 | 246 | 8.084 | 13.540 | 7.396- | 10.469 | 3.263- | 8.587 | .167 | 20.0 | 10.728 | 8.261 | 1.322 | 460 |
| 700 | 09 | 251 | 9.167 | 19.469 | 8.671- | 14.866 | 2.976- | 12.572 | .241 | 27.5 | 15.645 | 11.589 | 1.223 | 454 |
| 500 | 12 | 278 | 32.142 | 31.840 | 31.827- | 22.376 | 4.484 | 22.651 | .292 | 46.0 | 25.589 | 18.946 | 1.273 | 451 |
| 500 | 03 | 267 | 29.872 | 28.482 | 29.825- | 20.562 | 1.668- | 19.709 | .076 | 30.5 | 21.008 | 19.233 | 1.367 | 460 |
| 500 | 06 | 256 | 7.926 | 15.782 | 7.687- | 12.166 | 1.932- | 10.052 | .168 | 20.5 | 12.487 | 9.651 | 1.280 | 459 |
| 500 | 09 | 257 | 16.143 | 22.977 | 15.740- | 17.705 | 3.586- | 14.646 | .232 | 25.5 | 18.491 | 13.640 | 1.304 | 455 |
| 300 | 12 | 278 | 46.995 | 41.587 | 46.580- | 28.187 | 6.233 | 30.578 | .240 | 54.5 | 32.922 | 25.410 | 1.244 | 451 |
| 300 | 03 | 269 | 45.341 | 37.858 | 45.337- | 26.857 | 0.584- | 26.682 | .101 | 43.0 | 28.080 | 25.392 | 1.348 | 429 |
| 300 | 06 | 277 | 7.620 | 23.894 | 7.565- | 17.867 | 0.915 | 15.865 | .300 | 34.0 | 19.416 | 13.927 | 1.195 | 368 |
| 300 | 09 | 262 | 25.409 | 32.203 | 25.141- | 25.823 | 3.678- | 19.213 | .169 | 14.5 | 26.271 | 18.624 | 1.403 | 364 |
| 200 | 12 | 277 | 56.516 | 42.208 | 56.039- | 27.603 | 7.324 | 31.930 | .254 | 60.0 | 33.908 | 25.134 | 1.211 | 450 |
| 200 | 03 | 268 | 54.298 | 42.507 | 54.261- | 29.168 | 2.011- | 30.921 | .131 | 57.0 | 32.127 | 27.834 | 1.295 | 429 |
| 200 | 06 | 289 | 9.317 | 27.456 | 8.830- | 20.573 | 2.974 | 18.182 | .270 | 32.5 | 22.093 | 16.302 | 1.161 | 368 |
| 200 | 09 | 267 | 31.463 | 37.106 | 31.430- | 28.469 | 1.460- | 23.798 | .112 | 16.0 | 28.860 | 23.323 | 1.376 | 364 |

### Keflavik, Iceland

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 223 | 6.525 | 24.844 | 4.471- | 18.192 | 4.752- | 16.920 | .048 | 17.0 | 18.296 | 16.807 | 1.144 | 327 |
| 850 | 03 | 227 | 3.485 | 23.515 | 2.550- | 15.263 | 2.375- | 17.889 | .252 | 61.0 | 18.923 | 13.960 | 1.167 | 369 |
| 850 | 06 | 143 | 3.396 | 17.170 | 2.040 | 12.000 | 2.715- | 12.280 | .000 | 89.0 | 12.298 | 11.983 | 1.184 | 410 |
| 850 | 09 | 184 | 3.320 | 21.319 | 0.240- | 14.247 | 3.311- | 15.859 | .084 | 71.0 | 16.063 | 14.017 | 1.153 | 337 |
| 700 | 12 | 234 | 11.693 | 27.934 | 9.480- | 19.366 | 6.845- | 20.132 | .034 | 69.0 | 20.231 | 19.261 | 1.144 | 452 |
| 700 | 03 | 246 | 8.842 | 26.935 | 8.071- | 17.943 | 3.611- | 20.088 | .277 | 56.0 | 21.698 | 15.959 | 1.160 | 460 |
| 700 | 06 | 206 | 1.660 | 20.297 | 0.735- | 14.341 | 1.488- | 14.362 | .062 | 45.5 | 14.803 | 13.885 | 1.160 | 460 |
| 700 | 09 | 223 | 6.426 | 24.558 | 4.403- | 17.064 | 4.681- | 17.661 | .014 | 78.0 | 17.654 | 17.071 | 1.149 | 453 |
| 500 | 12 | 240 | 19.816 | 38.930 | 17.206- | 27.162 | 9.831- | 27.889 | .037- | 117.0 | 28.085 | 26.959 | 1.175 | 451 |
| 500 | 03 | 257 | 17.255 | 37.908 | 16.791- | 25.043 | 3.976- | 28.458 | .150 | 65.0 | 29.326 | 24.021 | 1.175 | 460 |
| 500 | 06 | 261 | 5.550 | 27.055 | 5.481- | 19.866 | 0.878- | 18.367 | .031 | 11.0 | 19.918 | 18.310 | 1.181 | 461 |
| 500 | 09 | 242 | 13.085 | 33.832 | 11.591- | 24.256 | 6.072- | 23.585 | .064- | 146.5 | 24.738 | 23.079 | 1.205 | 455 |
| 300 | 12 | 245 | 31.618 | 47.890 | 28.672- | 32.880 | 13.329- | 34.820 | .057- | 112.5 | 35.173 | 32.501 | 1.204 | 449 |
| 300 | 03 | 261 | 29.625 | 46.019 | 29.272- | 29.976 | 4.560- | 34.917 | .121 | 71.0 | 35.554 | 29.218 | 1.200 | 429 |
| 300 | 06 | 270 | 12.802 | 40.082 | 12.802- | 28.594 | 0.103- | 28.088 | .025 | 27.5 | 28.848 | 27.827 | 1.197 | 368 |
| 300 | 09 | 248 | 20.352 | 45.065 | 18.929- | 31.964 | 7.474- | 31.768 | .052- | 138.5 | 32.725 | 30.982 | 1.193 | 364 |
| 200 | 12 | 252 | 34.205 | 39.993 | 32.500- | 26.726 | 10.667- | 29.752 | .047- | 102.0 | 29.872 | 26.592 | 1.220 | 443 |
| 200 | 03 | 258 | 28.197 | 36.220 | 27.611- | 24.010 | 5.719- | 27.118 | .137 | 65.5 | 27.854 | 23.153 | 1.225 | 430 |
| 200 | 06 | 257 | 15.160 | 30.818 | 14.744- | 22.784 | 3.528- | 20.752 | .004 | 1.5 | 22.779 | 20.756 | 1.222 | 368 |
| 200 | 09 | 245 | 23.677 | 36.541 | 21.397- | 24.803 | 10.137- | 26.833 | .110- | 117.5 | 27.523 | 24.036 | 1.212 | 365 |

### Lagens, Azores

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 246 | 7.173 | 20.629 | 6.572- | 13.918 | 2.874- | 15.226 | .004- | 91.5 | 15.227 | 13.917 | 1.181 | 411 |
| 850 | 03 | 277 | 5.114 | 19.207 | 5.073- | 13.685 | 0.650 | 13.477 | .057 | 37.5 | 13.960 | 13.191 | 1.154 | 405 |
| 850 | 06 | 293 | 5.982 | 14.170 | 5.524- | 10.171 | 2.295 | 9.867 | .262 | 41.5 | 11.266 | 8.595 | 1.225 | 433 |
| 850 | 09 | 270 | 7.952 | 17.873 | 7.951- | 12.023 | 0.068 | 13.225 | .097 | 67.0 | 13.480 | 11.736 | 1.204 | 416 |
| 700 | 12 | 257 | 10.465 | 24.186 | 10.195- | 17.716 | 2.365- | 16.465 | .010 | 4.0 | 17.720 | 16.462 | 1.222 | 451 |
| 700 | 03 | 270 | 8.216 | 23.793 | 8.216- | 16.727 | 0.068 | 16.921 | .181 | 47.0 | 18.291 | 15.217 | 1.160 | 460 |
| 700 | 06 | 286 | 8.489 | 16.345 | 8.161- | 12.656 | 2.337 | 10.344 | .261 | 26.0 | 13.297 | 9.505 | 1.209 | 460 |
| 700 | 09 | 274 | 11.259 | 20.642 | 11.231- | 14.487 | 0.787 | 14.704 | .133 | 48.0 | 15.550 | 13.575 | 1.238 | 455 |
| 500 | 12 | 269 | 15.646 | 31.342 | 15.644- | 22.851 | 0.247- | 21.452 | .011 | 5.0 | 22.845 | 21.458 | 1.239 | 451 |
| 500 | 03 | 275 | 12.782 | 30.215 | 12.729- | 21.647 | 1.162 | 21.080 | .139 | 39.5 | 22.816 | 19.809 | 1.191 | 460 |
| 500 | 06 | 279 | 11.787 | 19.954 | 11.626- | 14.935 | 1.945 | 13.233 | .236 | 31.5 | 15.863 | 12.105 | 1.280 | 460 |
| 500 | 09 | 274 | 15.910 | 26.515 | 15.874- | 18.137 | 1.069 | 19.342 | .189 | 54.5 | 20.537 | 16.772 | 1.224 | 454 |
| 300 | 12 | 272 | 21.915 | 40.008 | 21.895- | 27.124 | 0.945 | 29.410 | .102 | 64.0 | 30.051 | 26.412 | 1.236 | 448 |
| 300 | 03 | 276 | 20.564 | 39.634 | 20.438- | 28.187 | 2.274 | 27.863 | .027 | 34.0 | 28.489 | 27.554 | 1.193 | 429 |
| 300 | 06 | 288 | 16.393 | 28.841 | 15.620- | 21.670 | 4.975 | 19.031 | .215 | 29.5 | 22.790 | 17.675 | 1.284 | 368 |
| 300 | 09 | 282 | 24.204 | 38.202 | 23.714- | 25.137 | 4.844 | 28.766 | .174 | 64.0 | 29.810 | 23.890 | 1.245 | 363 |
| 200 | 12 | 269 | 24.334 | 37.579 | 24.332- | 25.165 | 0.247- | 27.910 | .202 | 58.5 | 29.425 | 23.375 | 1.180 | 447 |
| 200 | 03 | 278 | 24.531 | 38.114 | 24.309- | 26.246 | 3.289 | 27.637 | .089 | 60.0 | 28.306 | 25.523 | 1.164 | 429 |
| 200 | 06 | 282 | 19.297 | 30.999 | 18.844- | 23.055 | 4.160 | 20.723 | .309 | 35.5 | 25.225 | 18.018 | 1.266 | 368 |
| 200 | 09 | 281 | 27.435 | 38.460 | 26.966- | 25.855 | 5.051 | 28.473 | .181 | 59.0 | 29.850 | 24.252 | 1.213 | 364 |

## Ocean Station "A" – 62° 00'N.- 033° 00'W.

| P | J | $\bar{\theta}$ | $\overline{\lvert V \rvert}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 225 | 7.715 | 29.403 | 4.548- | 21.401 | 5.453- | 20.163 | .119 | 32.0 | 22.123 | 19.368 | 1.133 | 270 |
| 850 | 03 | 224 | 2.293 | 26.111 | 1.597- | 18.050 | 1.645- | 18.868 | .250 | 49.5 | 20.681 | 15.940 | 1.124 | 317 |
| 850 | 06 | 056 | 0.754 | 19.688 | 0.628 | 13.756 | 0.417 | 14.085 | .175 | 48.5 | 15.107 | 12.625 | 1.143 | 308 |
| 850 | 09 | 216 | 2.932 | 25.383 | 1.728- | 17.958 | 2.369- | 17.939 | .194 | 45.0 | 19.620 | 16.105 | 1.146 | 330 |
| 700 | 12 | 233 | 11.383 | 28.936 | 9.041- | 20.278 | 6.916- | 20.642 | .055 | 54.0 | 21.045 | 19.860 | 1.132 | 451 |
| 700 | 03 | 249 | 7.000 | 27.224 | 6.540- | 17.762 | 2.496- | 20.632 | .154 | 67.0 | 21.205 | 17.074 | 1.127 | 460 |
| 700 | 06 | 314 | 1.400 | 21.492 | 1.011- | 15.742 | 0.968 | 14.632 | .180 | 34.0 | 16.616 | 13.632 | 1.115 | 460 |
| 700 | 09 | 234 | 6.450 | 27.121 | 5.216- | 19.734 | 3.795- | 18.605 | .176 | 36.0 | 20.879 | 17.310 | 1.164 | 455 |
| 500 | 12 | 234 | 19.455 | 38.348 | 15.716- | 27.333 | 11.467- | 26.897 | .053- | 143.5 | 27.879 | 26.331 | 1.178 | 451 |
| 500 | 03 | 253 | 16.157 | 37.259 | 15.441- | 25.644 | 4.755- | 27.029 | .048 | 68.5 | 27.244 | 25.417 | 1.158 | 460 |
| 500 | 06 | 269 | 5.643 | 27.391 | 5.643- | 20.669 | 0.088- | 17.974 | .066 | 12.5 | 20.792 | 17.832 | 1.165 | 460 |
| 500 | 09 | 239 | 12.539 | 35.344 | 10.768- | 26.673 | 6.424- | 23.190 | .055 | 10.5 | 26.792 | 23.052 | 1.209 | 455 |
| 300 | 12 | 238 | 30.409 | 48.548 | 25.746- | 35.463 | 16.183- | 33.155 | .085- | 154.0 | 36.120 | 32.438 | 1.202 | 451 |
| 300 | 03 | 253 | 27.398 | 50.685 | 26.256- | 35.309 | 7.829- | 36.364 | .007- | 96.5 | 36.349 | 35.324 | 1.205 | 429 |
| 300 | 06 | 264 | 14.928 | 41.358 | 14.853- | 30.514 | 1.490- | 27.919 | .028 | 9.0 | 30.585 | 27.840 | 1.223 | 368 |
| 300 | 09 | 244 | 21.901 | 45.719 | 19.713- | 32.864 | 9.542- | 31.784 | .042- | 154.5 | 33.216 | 31.416 | 1.204 | 362 |
| 200 | 12 | 245 | 35.157 | 38.501 | 31.855- | 27.056 | 14.876- | 27.392 | .113- | 132.0 | 28.743 | 25.616 | 1.240 | 450 |
| 200 | 03 | 251 | 23.821 | 38.205 | 22.556- | 25.687 | 7.659- | 28.281 | .034- | 100.0 | 28.343 | 25.618 | 1.171 | 428 |
| 200 | 06 | 261 | 15.935 | 32.013 | 15.739- | 23.908 | 2.497- | 21.289 | .003 | 1.0 | 23.910 | 21.287 | 1.208 | 367 |
| 200 | 09 | 244 | 23.728 | 38.828 | 21.315- | 27.653 | 10.426- | 27.257 | .056- | 142.0 | 28.217 | 26.673 | 1.213 | 364 |

## Ocean Station "B" – 56° 30'N.- 051° 00'W.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 259 | 11.949 | 28.653 | 11.744- | 19.379 | 2.207- | 21.106 | .183- | 122.5 | 22.217 | 18.095 | 1.143 | 305 |
| 850 | 03 | 226 | 2.823 | 25.592 | 2.035- | 17.931 | 1.957- | 18.260 | .248- | 133.0 | 20.228 | 15.676 | 1.141 | 342 |
| 850 | 06 | 248 | 5.789 | 23.081 | 5.370- | 16.228 | 2.164- | 16.413 | .131- | 132.5 | 17.357 | 15.214 | 1.128 | 317 |
| 850 | 09 | 268 | 11.228 | 25.956 | 11.223- | 17.321 | 0.337- | 19.331 | .061- | 104.5 | 19.480 | 17.155 | 1.163 | 344 |
| 700 | 12 | 249 | 16.293 | 29.600 | 15.259- | 19.710 | 5.712- | 22.084 | .223- | 121.5 | 23.395 | 18.134 | 1.146 | 451 |
| 700 | 03 | 239 | 6.670 | 27.290 | 5.727- | 18.994 | 3.418- | 19.595 | .122- | 128.0 | 20.482 | 18.034 | 1.138 | 459 |
| 700 | 06 | 257 | 8.449 | 23.227 | 8.240- | 16.276 | 1.866- | 16.571 | .044 | 56.0 | 16.812 | 16.027 | 1.138 | 458 |
| 700 | 09 | 258 | 14.834 | 26.038 | 14.517- | 17.178 | 3.050- | 19.567 | .032- | 97.0 | 19.600 | 17.141 | 1.153 | 455 |
| 500 | 12 | 242 | 26.151 | 38.620 | 23.104- | 26.911 | 12.250- | 27.699 | .222- | 131.5 | 30.203 | 24.068 | 1.189 | 451 |
| 500 | 03 | 239 | 13.438 | 36.006 | 11.533- | 25.762 | 6.898- | 25.154 | .139- | 140.0 | 27.225 | 23.563 | 1.163 | 460 |
| 500 | 06 | 257 | 14.483 | 28.931 | 14.136- | 19.750 | 3.149- | 21.142 | .028- | 101.5 | 21.205 | 19.682 | 1.152 | 459 |
| 500 | 09 | 256 | 24.400 | 36.103 | 23.623- | 23.139 | 6.108- | 27.713 | .026- | 94.0 | 27.744 | 23.101 | 1.218 | 455 |
| 300 | 12 | 241 | 38.915 | 48.465 | 33.882- | 34.342 | 19.141- | 34.198 | .248- | 135.5 | 38.301 | 29.697 | 1.210 | 451 |
| 300 | 03 | 243 | 23.282 | 49.717 | 20.673- | 35.487 | 10.710- | 34.820 | .069- | 142.5 | 36.423 | 33.841 | 1.208 | 429 |
| 300 | 06 | 256 | 27.198 | 43.917 | 26.442- | 29.435 | 6.366- | 32.593 | .026- | 97.0 | 32.665 | 29.355 | 1.212 | 368 |
| 300 | 09 | 251 | 38.210 | 49.231 | 36.122- | 32.911 | 12.458- | 36.613 | .137- | 116.0 | 37.709 | 31.650 | 1.235 | 364 |
| 200 | 12 | 240 | 41.928 | 39.288 | 36.339- | 27.482 | 20.916- | 28.076 | .141- | 130.5 | 29.703 | 25.716 | 1.231 | 451 |
| 200 | 03 | 243 | 23.155 | 37.620 | 20.586- | 26.206 | 10.599- | 26.991 | .072- | 124.0 | 27.602 | 25.561 | 1.199 | 429 |
| 200 | 06 | 256 | 27.278 | 36.256 | 26.435- | 23.958 | 6.731- | 27.212 | .021- | 94.5 | 27.213 | 23.957 | 1.231 | 368 |
| 200 | 09 | 252 | 39.599 | 43.723 | 37.579- | 30.212 | 12.486- | 31.606 | .098- | 122.5 | 32.566 | 29.175 | 1.233 | 364 |

## Ocean Station "C" – 52° 45'N.- 035° 30'W.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 250 | 21.141 | 27.974 | 19.822- | 19.075 | 7.351- | 20.462 | .082- | 114.5 | 20.831 | 18.672 | 1.186 | 355 |
| 850 | 03 | 244 | 9.990 | 27.643 | 9.014- | 19.177 | 4.308- | 19.910 | .058 | 61.0 | 20.183 | 18.889 | 1.145 | 379 |
| 850 | 06 | 257 | 13.332 | 22.388 | 12.965- | 15.623 | 3.105- | 16.035 | .103 | 52.0 | 16.665 | 14.950 | 1.200 | 372 |
| 850 | 09 | 261 | 17.537 | 26.890 | 17.341- | 19.637 | 2.612- | 18.371 | .026- | 169.5 | 19.700 | 18.303 | 1.148 | 369 |
| 700 | 12 | 250 | 27.528 | 29.764 | 25.833- | 20.637 | 9.510- | 21.448 | .075- | 121.5 | 21.940 | 20.113 | 1.196 | 451 |
| 700 | 03 | 246 | 14.806 | 30.440 | 13.531- | 21.765 | 6.011- | 21.282 | .124 | 40.0 | 22.862 | 20.098 | 1.148 | 460 |
| 700 | 06 | 262 | 17.692 | 23.337 | 17.522- | 15.564 | 2.447- | 17.389 | .073 | 73.5 | 17.550 | 15.383 | 1.205 | 460 |
| 700 | 09 | 261 | 21.981 | 28.925 | 21.738- | 21.091 | 3.258- | 19.795 | .051- | 160.5 | 21.287 | 19.584 | 1.165 | 456 |
| 500 | 12 | 246 | 39.409 | 42.329 | 36.128- | 29.057 | 15.744- | 30.781 | .024- | 101.5 | 30.898 | 28.932 | 1.245 | 451 |
| 500 | 03 | 247 | 22.617 | 39.377 | 20.879- | 27.559 | 8.694- | 28.125 | .009 | 77.0 | 28.143 | 27.541 | 1.174 | 459 |
| 500 | 06 | 264 | 26.132 | 30.218 | 25.981- | 20.247 | 2.800- | 22.432 | .058 | 75.5 | 22.569 | 20.093 | 1.228 | 461 |
| 500 | 09 | 261 | 32.362 | 38.904 | 31.950- | 27.541 | 5.148- | 27.478 | .047- | 136.5 | 28.112 | 26.893 | 1.231 | 455 |
| 300 | 12 | 248 | 50.724 | 54.336 | 47.065- | 35.958 | 18.916- | 40.736 | .100- | 109.5 | 41.361 | 35.237 | 1.231 | 450 |
| 300 | 03 | 248 | 31.136 | 50.739 | 28.842- | 34.078 | 11.730- | 37.593 | .052 | 76.0 | 37.831 | 33.813 | 1.194 | 428 |
| 300 | 06 | 265 | 36.129 | 43.765 | 36.005- | 29.553 | 2.992- | 32.280 | .037 | 78.5 | 32.359 | 29.466 | 1.249 | 368 |
| 300 | 09 | 262 | 44.594 | 51.991 | 44.117- | 37.765 | 6.501- | 35.732 | .050- | 159.0 | 38.169 | 35.301 | 1.217 | 364 |
| 200 | 12 | 248 | 45.060 | 42.106 | 41.652- | 29.215 | 17.192- | 30.322 | .038- | 113.0 | 30.627 | 28.895 | 1.225 | 448 |
| 200 | 03 | 247 | 27.596 | 39.849 | 25.446- | 25.728 | 10.680- | 30.430 | .017- | 93.0 | 30.430 | 25.728 | 1.180 | 428 |
| 200 | 06 | 265 | 36.440 | 37.559 | 36.320- | 26.038 | 2.964- | 27.068 | .101 | 55.5 | 27.945 | 25.095 | 1.256 | 368 |
| 200 | 09 | 263 | 43.434 | 45.972 | 43.109- | 33.119 | 5.304- | 31.884 | .030 | 19.5 | 33.299 | 31.695 | 1.245 | 364 |

## Ocean Station "D" – 44° 00'N.- 041° 00'W.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 249 | 18.030 | 30.005 | 16.884- | 20.920 | 6.325- | 21.510 | .102 | 52.5 | 22.335 | 20.036 | 1.170 | 335 |
| 850 | 03 | 236 | 12.586 | 27.750 | 10.400- | 18.497 | 7.088- | 20.686 | .083 | 71.5 | 20.943 | 18.206 | 1.164 | 361 |
| 850 | 06 | 259 | 14.407 | 20.023 | 14.135- | 14.677 | 2.784- | 13.620 | .079 | 23.5 | 14.898 | 13.377 | 1.225 | 314 |
| 850 | 09 | 262 | 14.627 | 26.132 | 14.477- | 17.806 | 2.086- | 19.127 | .034 | 77.5 | 19.186 | 17.742 | 1.159 | 290 |
| 700 | 12 | 252 | 26.017 | 31.575 | 24.786- | 22.615 | 7.907- | 22.035 | .008- | 170.5 | 22.622 | 22.028 | 1.201 | 451 |
| 700 | 03 | 248 | 18.448 | 28.575 | 17.093- | 20.290 | 6.939- | 20.121 | .075 | 42.0 | 20.977 | 19.403 | 1.155 | 460 |
| 700 | 06 | 261 | 18.911 | 19.884 | 18.680- | 14.320 | 2.949- | 13.795 | .038 | 23.0 | 14.462 | 13.646 | 1.222 | 460 |
| 700 | 09 | 266 | 20.947 | 26.221 | 20.893- | 17.830 | 1.507- | 19.227 | .125 | 60.5 | 19.855 | 17.128 | 1.157 | 455 |
| 500 | 12 | 252 | 37.350 | 39.761 | 35.493- | 27.781 | 11.630- | 28.445 | .095- | 128.0 | 29.461 | 26.702 | 1.233 | 451 |
| 500 | 03 | 248 | 25.844 | 38.063 | 23.948- | 25.236 | 9.717- | 28.495 | .016 | 86.5 | 28.494 | 25.237 | 1.194 | 460 |
| 500 | 06 | 262 | 26.191 | 25.920 | 25.950- | 17.848 | 3.544- | 18.796 | .147 | 54.5 | 19.714 | 16.829 | 1.281 | 461 |
| 500 | 09 | 268 | 31.254 | 33.803 | 31.227- | 23.749 | 1.317- | 24.055 | .193 | 47.0 | 26.133 | 21.442 | 1.211 | 455 |
| 300 | 12 | 252 | 48.251 | 49.916 | 45.957- | 32.933 | 14.702- | 37.510 | .105- | 109.5 | 38.113 | 32.233 | 1.263 | 451 |
| 300 | 03 | 255 | 34.717 | 48.747 | 33.550- | 33.293 | 8.926- | 35.608 | .001 | 89.5 | 35.602 | 33.299 | 1.190 | 429 |
| 300 | 06 | 269 | 34.896 | 37.002 | 34.892- | 26.479 | 0.535- | 25.845 | .087 | 37.5 | 27.350 | 24.921 | 1.331 | 368 |
| 300 | 09 | 269 | 41.292 | 49.019 | 41.279- | 32.721 | 1.038- | 36.499 | .100 | 68.5 | 37.129 | 32.004 | 1.213 | 364 |
| 200 | 12 | 253 | 47.016 | 44.469 | 44.890- | 28.991 | 13.980- | 33.720 | .024- | 94.5 | 33.766 | 28.937 | 1.242 | 446 |
| 200 | 03 | 256 | 33.828 | 43.533 | 32.840- | 28.276 | 8.115- | 33.100 | .048 | 81.5 | 33.187 | 28.174 | 1.222 | 429 |
| 200 | 06 | 271 | 35.338 | 38.223 | 35.332- | 26.061 | 0.696 | 27.961 | .137 | 58.5 | 29.038 | 24.855 | 1.262 | 368 |
| 200 | 09 | 272 | 44.622 | 47.052 | 44.599- | 31.933 | 1.437 | 34.557 | .064 | 70.5 | 34.912 | 31.545 | 1.244 | 364 |

## Ocean Station "E" — 35° 00'N.- 048° 00'W.

| P | J | $\bar{\theta}$ | $\|\bar{V}\|$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 257 | 9.692 | 24.324 | 9.435- | 15.642 | 2.217- | 18.627 | .155 | 69.0 | 19.080 | 15.086 | 1.134 | 373 |
| 850 | 03 | 252 | 13.648 | 20.856 | 13.015- | 13.466 | 4.110- | 15.926 | .062 | 80.0 | 16.002 | 13.376 | 1.202 | 352 |
| 850 | 06 | 244 | 7.646 | 15.259 | 6.879- | 12.166 | 3.338- | 9.210 | .026 | 2.5 | 12.174 | 9.199 | 1.195 | 314 |
| 850 | 09 | 241 | 5.421 | 18.604 | 4.729- | 14.008 | 2.650- | 12.243 | .112 | 20.0 | 14.259 | 11.949 | 1.167 | 353 |
| 700 | 12 | 262 | 15.890 | 25.734 | 15.726- | 17.782 | 2.278- | 18.602 | .154 | 53.0 | 19.607 | 16.667 | 1.168 | 451 |
| 700 | 03 | 264 | 18.453 | 23.549 | 18.343- | 15.728 | 2.017- | 17.527 | .193 | 59.5 | 18.387 | 14.712 | 1.216 | 460 |
| 700 | 06 | 257 | 9.383 | 15.947 | 9.159- | 12.695 | 2.039- | 9.651 | .109 | 11.0 | 12.795 | 9.518 | 1.227 | 460 |
| 700 | 09 | 260 | 9.923 | 19.797 | 9.778- | 15.188 | 1.691- | 12.698 | .119 | 17.0 | 15.412 | 12.425 | 1.207 | 455 |
| 500 | 12 | 266 | 25.943 | 32.307 | 25.893- | 21.932 | 1.617- | 23.722 | .091 | 65.5 | 24.162 | 21.447 | 1.219 | 451 |
| 500 | 03 | 265 | 26.758 | 29.039 | 26.665- | 18.967 | 2.229- | 21.989 | .156 | 67.0 | 22.607 | 18.226 | 1.241 | 460 |
| 500 | 06 | 266 | 11.333 | 19.150 | 11.304- | 15.750 | 0.814- | 10.893 | .091 | 7.0 | 15.807 | 10.810 | 1.259 | 460 |
| 500 | 09 | 269 | 14.601 | 24.101 | 14.599- | 17.209 | 0.241- | 16.874 | .108 | 40.0 | 17.965 | 16.066 | 1.224 | 455 |
| 300 | 12 | 267 | 34.356 | 44.338 | 34.298- | 28.982 | 1.994- | 33.554 | .100 | 73.0 | 33.997 | 28.461 | 1.238 | 449 |
| 300 | 03 | 270 | 37.704 | 38.695 | 37.703- | 26.114 | 0.192- | 28.554 | .019 | 84.0 | 28.555 | 26.113 | 1.257 | 429 |
| 300 | 06 | 283 | 9.802 | 25.284 | 9.563- | 20.323 | 2.150 | 15.041 | .151 | 13.0 | 20.589 | 14.675 | 1.205 | 368 |
| 300 | 09 | 276 | 22.022 | 33.560 | 21.900- | 24.080 | 2.316 | 23.377 | .067 | 33.0 | 24.619 | 22.808 | 1.269 | 363 |
| 200 | 12 | 269 | 40.367 | 45.788 | 40.364- | 29.675 | 0.502- | 34.870 | .060 | 79.5 | 35.048 | 29.465 | 1.236 | 448 |
| 200 | 03 | 270 | 43.130 | 40.681 | 43.130- | 27.421 | 0.124 | 30.051 | .128 | 63.0 | 30.923 | 26.434 | 1.229 | 431 |
| 200 | 06 | 290 | 10.357 | 30.628 | 9.738- | 23.123 | 3.527 | 20.085 | .093 | 17.0 | 23.412 | 19.748 | 1.153 | 367 |
| 200 | 09 | 280 | 26.769 | 37.970 | 26.379- | 27.836 | 4.552 | 25.823 | .202 | 35.0 | 29.600 | 23.781 | 1.242 | 364 |

## Ocean Station "H" — 36° 40'N.- 069° 35'W.

| P | J | $\bar{\theta}$ | $\|\bar{V}\|$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 267 | 15.913 | 24.301 | 15.895- | 15.633 | 0.744- | 18.604 | .052 | 81.5 | 18.672 | 15.553 | 1.190 | 298 |
| 850 | 03 | 267 | 14.312 | 21.479 | 14.290- | 14.299 | 0.794- | 16.028 | .145 | 64.0 | 16.522 | 13.725 | 1.185 | 304 |
| 850 | 06 | 249 | 8.405 | 15.913 | 7.867- | 11.206 | 2.959- | 11.298 | .043 | 50.5 | 11.503 | 10.995 | 1.236 | 321 |
| 850 | 09 | 257 | 5.032 | 22.108 | 4.903- | 15.983 | 1.132- | 15.275 | .196 | 38.5 | 17.124 | 13.984 | 1.172 | 307 |
| 700 | 12 | 271 | 28.981 | 25.884 | 28.974- | 17.318 | 0.656 | 19.237 | .085 | 70.5 | 19.491 | 17.032 | 1.255 | 451 |
| 700 | 03 | 268 | 25.030 | 24.934 | 25.017- | 17.103 | 0.815- | 18.144 | .019 | 80.5 | 18.143 | 17.104 | 1.251 | 460 |
| 700 | 06 | 267 | 13.173 | 16.438 | 13.151- | 12.367 | 0.770- | 10.829 | .079 | 15.5 | 12.480 | 10.699 | 1.246 | 460 |
| 700 | 09 | 258 | 14.475 | 23.352 | 14.143- | 17.078 | 3.084- | 15.927 | .248 | 37.0 | 18.521 | 14.223 | 1.221 | 455 |
| 500 | 12 | 269 | 45.821 | 35.042 | 45.816- | 23.250 | 0.659- | 26.218 | .060 | 76.5 | 26.398 | 23.045 | 1.273 | 451 |
| 500 | 03 | 267 | 35.867 | 32.106 | 35.827- | 23.199 | 1.697- | 22.195 | .058 | 26.5 | 23.485 | 21.892 | 1.308 | 460 |
| 500 | 06 | 265 | 16.910 | 19.031 | 16.855- | 14.277 | 1.363- | 12.583 | .112 | 21.0 | 14.549 | 12.267 | 1.312 | 460 |
| 500 | 09 | 259 | 24.982 | 31.193 | 24.497- | 22.642 | 4.901- | 21.454 | .283 | 39.5 | 25.045 | 18.593 | 1.354 | 455 |
| 300 | 12 | 270 | 63.452 | 47.074 | 63.451- | 31.548 | 0.234- | 34.938 | .045 | 78.0 | 35.086 | 31.383 | 1.276 | 452 |
| 300 | 03 | 269 | 51.820 | 45.574 | 51.802- | 30.813 | 1.340- | 33.579 | .030- | 99.5 | 33.665 | 30.719 | 1.278 | 429 |
| 300 | 06 | 269 | 19.376 | 26.831 | 19.375- | 19.906 | 0.178- | 17.990 | .167 | 29.5 | 20.738 | 17.024 | 1.313 | 368 |
| 300 | 09 | 258 | 39.309 | 40.821 | 38.447- | 29.047 | 8.187- | 28.681 | .296 | 44.0 | 32.871 | 24.203 | 1.333 | 364 |
| 200 | 12 | 270 | 69.520 | 46.906 | 69.520- | 29.271 | 0.171- | 36.653 | .178 | 71.0 | 37.549 | 28.112 | 1.234 | 451 |
| 200 | 03 | 267 | 56.902 | 45.437 | 56.844- | 29.887 | 2.566- | 34.224 | .017- | 93.5 | 34.222 | 29.889 | 1.262 | 428 |
| 200 | 06 | 279 | 20.184 | 31.720 | 19.916- | 23.305 | 3.278 | 21.519 | .159 | 31.5 | 24.357 | 20.320 | 1.249 | 368 |
| 200 | 09 | 259 | 45.749 | 42.167 | 44.841- | 30.946 | 9.072- | 28.643 | .304 | 38.0 | 34.154 | 24.730 | 1.339 | 363 |

## Ocean Station "I" — 59° 00'N.- 019° 00'W.

| P | J | $\bar{\theta}$ | $\|\bar{V}\|$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 246 | 16.684 | 31.065 | 15.184- | 22.008 | 6.913- | 21.925 | .005- | 153.5 | 21.982 | 21.951 | 1.156 | 376 |
| 850 | 03 | 249 | 8.859 | 27.977 | 8.256- | 21.033 | 3.212- | 18.448 | .133 | 23.0 | 21.546 | 17.846 | 1.131 | 430 |
| 850 | 06 | 239 | 6.347 | 21.409 | 5.441- | 15.790 | 3.269- | 14.458 | .100 | 24.5 | 16.111 | 14.099 | 1.139 | 423 |
| 850 | 09 | 234 | 9.041 | 28.183 | 7.322- | 20.782 | 5.303- | 19.036 | .066- | 161.5 | 20.977 | 18.821 | 1.149 | 424 |
| 700 | 12 | 247 | 20.481 | 31.501 | 18.785- | 20.899 | 8.162- | 23.570 | .075 | 74.0 | 23.805 | 20.630 | 1.164 | 452 |
| 700 | 03 | 250 | 13.392 | 29.765 | 12.572- | 21.844 | 4.613- | 20.218 | .112 | 27.5 | 22.449 | 19.545 | 1.164 | 460 |
| 700 | 06 | 247 | 8.601 | 23.302 | 7.944- | 16.560 | 3.296- | 16.393 | .046 | 39.0 | 16.856 | 16.089 | 1.152 | 460 |
| 700 | 09 | 246 | 13.035 | 29.296 | 11.925- | 21.691 | 5.263- | 19.692 | .069- | 162.0 | 21.913 | 19.444 | 1.180 | 455 |
| 500 | 12 | 250 | 29.121 | 42.230 | 27.311- | 27.810 | 10.106- | 31.780 | .049 | 80.0 | 31.879 | 27.696 | 1.223 | 452 |
| 500 | 03 | 257 | 21.124 | 40.047 | 20.541- | 28.197 | 4.928- | 28.438 | .008 | 66.5 | 28.412 | 28.223 | 1.188 | 459 |
| 500 | 06 | 256 | 13.473 | 31.966 | 13.075- | 22.762 | 3.250- | 22.443 | .045 | 36.5 | 23.128 | 22.066 | 1.193 | 460 |
| 500 | 09 | 251 | 18.509 | 38.236 | 17.543- | 26.601 | 5.899- | 27.466 | .040- | 116.0 | 27.771 | 26.283 | 1.195 | 455 |
| 300 | 12 | 255 | 40.639 | 58.538 | 39.320- | 38.081 | 10.271- | 44.458 | .032- | 96.0 | 44.520 | 38.009 | 1.231 | 451 |
| 300 | 03 | 263 | 29.883 | 54.101 | 29.649- | 38.684 | 3.735- | 37.822 | .071- | 144.0 | 39.648 | 36.810 | 1.219 | 429 |
| 300 | 06 | 261 | 24.008 | 46.967 | 23.727- | 33.391 | 3.659- | 33.029 | .025 | 33.0 | 33.761 | 32.651 | 1.236 | 368 |
| 300 | 09 | 257 | 26.061 | 52.918 | 25.422- | 35.758 | 5.737- | 39.009 | .051- | 105.5 | 39.289 | 35.450 | 1.213 | 364 |
| 200 | 12 | 260 | 40.247 | 46.284 | 39.582- | 30.158 | 7.286- | 35.110 | .016- | 93.0 | 35.110 | 30.158 | 1.231 | 449 |
| 200 | 03 | 263 | 26.663 | 40.410 | 26.473- | 27.784 | 3.183- | 29.344 | .027 | 77.0 | 29.458 | 27.662 | 1.181 | 429 |
| 200 | 06 | 261 | 23.960 | 37.316 | 23.641- | 25.603 | 3.898- | 27.147 | .069 | 65.0 | 27.567 | 25.150 | 1.285 | 368 |
| 200 | 09 | 259 | 28.463 | 45.030 | 27.970- | 30.973 | 5.273- | 32.687 | .019- | 99.5 | 32.683 | 30.977 | 1.230 | 364 |

## Ocean Station "J" — 52° 30'N.- 020° 00'W

| P | J | $\bar{\theta}$ | $\|\bar{V}\|$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 255 | 22.188 | 30.100 | 21.420- | 20.432 | 5.787- | 22.103 | .103- | 116.5 | 22.634 | 19.843 | 1.168 | 429 |
| 850 | 03 | 254 | 10.536 | 27.369 | 10.137- | 19.598 | 2.872- | 19.104 | .051 | 32.0 | 19.934 | 18.754 | 1.154 | 421 |
| 850 | 06 | 260 | 14.102 | 21.600 | 13.880- | 14.899 | 2.488- | 15.638 | .016- | 99.0 | 15.642 | 14.895 | 1.182 | 419 |
| 850 | 09 | 252 | 17.423 | 27.357 | 16.545- | 18.983 | 5.462- | 19.699 | .019 | 76.0 | 19.707 | 18.976 | 1.171 | 403 |
| 700 | 12 | 257 | 27.142 | 34.064 | 26.458- | 22.741 | 6.055- | 25.361 | .023- | 96.0 | 25.414 | 22.682 | 1.182 | 451 |
| 700 | 03 | 256 | 14.745 | 29.348 | 14.297- | 20.983 | 3.609- | 20.519 | .012 | 15.0 | 20.979 | 20.523 | 1.148 | 459 |
| 700 | 06 | 263 | 17.629 | 23.904 | 17.502- | 16.046 | 2.112- | 17.717 | .052- | 104.0 | 17.833 | 15.918 | 1.163 | 460 |
| 700 | 09 | 258 | 20.477 | 28.971 | 20.016- | 20.520 | 4.322- | 20.451 | .024 | 41.0 | 20.802 | 20.164 | 1.146 | 454 |
| 500 | 12 | 260 | 35.852 | 45.880 | 35.268- | 30.337 | 6.447- | 34.419 | .038- | 98.5 | 34.478 | 30.270 | 1.180 | 451 |
| 500 | 03 | 261 | 19.518 | 38.690 | 19.291- | 27.544 | 2.964- | 27.170 | .019 | 28.0 | 27.570 | 27.144 | 1.165 | 460 |
| 500 | 06 | 265 | 24.144 | 31.222 | 24.040- | 20.254 | 2.243- | 23.761 | .059- | 100.0 | 23.854 | 20.145 | 1.175 | 460 |
| 500 | 09 | 261 | 27.617 | 37.319 | 27.250- | 26.694 | 4.489- | 26.079 | .038- | 150.5 | 27.047 | 25.713 | 1.188 | 455 |
| 300 | 12 | 263 | 46.916 | 58.553 | 46.584- | 38.801 | 5.570- | 43.852 | .034- | 97.5 | 43.929 | 38.713 | 1.227 | 450 |
| 300 | 03 | 265 | 26.646 | 50.376 | 26.542- | 36.228 | 2.351- | 35.003 | .007 | 6.5 | 36.233 | 34.998 | 1.196 | 429 |
| 300 | 06 | 268 | 33.587 | 44.215 | 33.570- | 30.250 | 1.053- | 32.247 | .073 | 65.5 | 32.719 | 29.739 | 1.214 | 368 |
| 300 | 09 | 267 | 35.307 | 53.106 | 35.247- | 38.784 | 2.059- | 36.278 | .031 | 13.0 | 38.913 | 36.140 | 1.229 | 364 |
| 200 | 12 | 268 | 43.877 | 49.934 | 43.852- | 31.764 | 1.474- | 38.528 | .006 | 89.0 | 38.530 | 31.762 | 1.195 | 449 |
| 200 | 03 | 264 | 24.764 | 40.048 | 24.632- | 27.850 | 2.548- | 28.778 | .006 | 85.0 | 28.792 | 27.837 | 1.215 | 429 |
| 200 | 06 | 266 | 31.711 | 39.440 | 31.646- | 26.194 | 2.034- | 29.486 | .055 | 77.5 | 29.642 | 26.017 | 1.216 | 367 |
| 200 | 09 | 268 | 36.640 | 48.619 | 36.622- | 34.407 | 1.126- | 34.350 | .113 | 44.5 | 36.287 | 32.358 | 1.224 | 365 |

## Ocean Station "K" – 45° 00'N. – 016° 00'W.

| P | J | $\bar{\theta}$ | $\|\bar{V}\|$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 275 | 11.134 | 23.903 | 11.094- | 15.706 | 0.948 | 18.019 | .067- | 103.0 | 18.151 | 15.553 | 1.151 | 79 |
| 850 | 03 | 336 | 2.463 | 19.834 | 1.017- | 14.086 | 2.243 | 13.963 | .100- | 137.5 | 14.713 | 13.301 | 1.104 | 47 |
| 850 | 06 | 288 | 8.210 | 31.301 | 7.829- | 26.423 | 2.470 | 16.779 | .273 | 15.0 | 27.038 | 15.771 | 1.446 | 132 |
| 850 | 09 | 268 | 11.094 | 23.755 | 11.089- | 17.981 | 0.348- | 15.525 | .068- | 167.5 | 18.103 | 15.382 | 1.211 | 129 |
| 700 | 12 | 276 | 16.302 | 28.650 | 16.204- | 21.224 | 1.784 | 19.245 | .006- | 178.0 | 21.223 | 19.246 | 1.161 | 451 |
| 700 | 03 | 284 | 7.994 | 25.533 | 7.758- | 19.059 | 1.928 | 16.991 | .087 | 18.5 | 19.317 | 16.697 | 1.135 | 460 |
| 700 | 06 | 278 | 12.623 | 19.872 | 12.512- | 14.573 | 1.673 | 13.510 | .131 | 30.0 | 15.071 | 12.952 | 1.193 | 460 |
| 700 | 09 | 269 | 15.818 | 24.773 | 15.814- | 17.833 | 0.369- | 17.196 | .065 | 30.5 | 18.143 | 16.869 | 1.145 | 455 |
| 500 | 12 | 279 | 21.223 | 35.383 | 20.981- | 24.254 | 3.197 | 25.763 | .059 | 68.0 | 26.016 | 23.982 | 1.154 | 451 |
| 500 | 03 | 283 | 12.047 | 31.648 | 11.741- | 23.745 | 2.698 | 20.924 | .129 | 23.0 | 24.313 | 20.261 | 1.132 | 460 |
| 500 | 06 | 273 | 17.432 | 24.634 | 17.402- | 18.459 | 1.026 | 16.313 | .164 | 26.5 | 19.116 | 15.538 | 1.169 | 459 |
| 500 | 09 | 269 | 21.766 | 31.515 | 21.758- | 22.156 | 0.586- | 22.413 | .149 | 47.0 | 23.884 | 20.561 | 1.170 | 455 |
| 300 | 12 | 279 | 28.469 | 43.383 | 28.113- | 31.030 | 4.491 | 30.320 | .077 | 36.5 | 31.888 | 29.415 | 1.184 | 439 |
| 300 | 03 | 284 | 17.966 | 38.578 | 17.457- | 27.628 | 4.246 | 26.926 | .194 | 41.0 | 29.839 | 24.452 | 1.129 | 429 |
| 300 | 06 | 272 | 21.688 | 32.958 | 21.675- | 24.525 | 0.727 | 22.018 | .135 | 26.0 | 25.221 | 21.217 | 1.199 | 368 |
| 300 | 09 | 274 | 29.413 | 40.361 | 29.329- | 29.146 | 2.216 | 27.920 | .227 | 39.5 | 31.674 | 25.015 | 1.210 | 364 |
| 200 | 12 | 280 | 28.080 | 39.762 | 27.626- | 27.304 | 5.031 | 28.905 | .102 | 59.5 | 29.688 | 26.451 | 1.194 | 442 |
| 200 | 03 | 274 | 19.329 | 34.641 | 19.272- | 24.334 | 1.488 | 24.654 | .278 | 46.5 | 27.708 | 20.790 | 1.151 | 427 |
| 200 | 06 | 267 | 23.485 | 34.187 | 23.446- | 25.078 | 1.348- | 23.235 | .241 | 36.0 | 27.048 | 20.909 | 1.174 | 368 |
| 200 | 09 | 274 | 30.122 | 39.088 | 30.038- | 28.493 | 2.253 | 26.758 | .189 | 36.0 | 30.271 | 24.729 | 1.191 | 363 |

## Ocean Station "M" – 66° 00'N. – 002° 00'E.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 250 | 9.457 | 28.797 | 8.871- | 19.649 | 3.279- | 21.051 | .178 | 55.5 | 22.225 | 18.311 | 1.154 | 438 |
| 850 | 03 | 265 | 7.346 | 24.904 | 7.323- | 17.982 | 0.581- | 17.230 | .192 | 39.0 | 19.266 | 15.781 | 1.154 | 407 |
| 850 | 06 | 216 | 3.357 | 18.999 | 1.996- | 12.393 | 2.700- | 14.401 | .086 | 75.0 | 14.553 | 12.215 | 1.132 | 400 |
| 850 | 09 | 235 | 7.535 | 24.650 | 6.160- | 16.189 | 4.338- | 18.589 | .041 | 81.5 | 18.647 | 16.123 | 1.151 | 431 |
| 700 | 12 | 257 | 12.659 | 28.364 | 12.358- | 19.930 | 2.745- | 20.183 | .142 | 47.5 | 21.431 | 18.581 | 1.177 | 451 |
| 700 | 03 | 263 | 11.844 | 24.015 | 11.748- | 17.352 | 1.508- | 16.602 | .066 | 28.5 | 17.624 | 16.313 | 1.201 | 460 |
| 700 | 06 | 229 | 5.922 | 19.055 | 4.464- | 12.882 | 3.892- | 14.041 | .013 | 85.5 | 14.041 | 12.882 | 1.145 | 461 |
| 700 | 09 | 245 | 10.925 | 23.546 | 9.897- | 15.584 | 4.627- | 17.651 | .030 | 83.0 | 17.680 | 15.551 | 1.166 | 455 |
| 500 | 12 | 264 | 19.838 | 35.330 | 19.744- | 23.876 | 1.931- | 26.042 | .038 | 78.0 | 26.169 | 23.737 | 1.207 | 451 |
| 500 | 03 | 266 | 19.553 | 31.505 | 19.511- | 21.148 | 1.287- | 23.352 | .064- | 106.5 | 23.546 | 20.932 | 1.230 | 459 |
| 500 | 06 | 239 | 9.929 | 26.020 | 8.553- | 18.463 | 5.043- | 18.335 | .084- | 137.5 | 19.157 | 17.609 | 1.157 | 458 |
| 500 | 09 | 252 | 16.105 | 30.620 | 15.280- | 20.995 | 5.089- | 22.289 | .133- | 123.0 | 23.185 | 20.001 | 1.185 | 454 |
| 300 | 12 | 272 | 30.083 | 48.415 | 30.066- | 31.895 | 0.997 | 36.425 | .047- | 100.0 | 36.540 | 31.763 | 1.235 | 447 |
| 300 | 03 | 270 | 29.738 | 45.492 | 29.738- | 31.435 | 0.156 | 32.885 | .044- | 112.0 | 33.170 | 31.133 | 1.278 | 428 |
| 300 | 06 | 246 | 16.237 | 39.404 | 14.847- | 27.671 | 6.575- | 28.053 | .123- | 132.0 | 29.529 | 26.090 | 1.184 | 368 |
| 300 | 09 | 254 | 22.115 | 45.092 | 21.270- | 29.552 | 6.057- | 34.058 | .115- | 109.5 | 34.646 | 28.861 | 1.219 | 364 |
| 200 | 12 | 275 | 30.639 | 37.450 | 30.513- | 23.842 | 2.774 | 28.879 | .032 | 85.0 | 28.912 | 23.803 | 1.266 | 448 |
| 200 | 03 | 271 | 26.396 | 33.984 | 26.395- | 23.171 | 0.241 | 24.861 | .002- | 91.0 | 24.857 | 23.175 | 1.325 | 428 |
| 200 | 06 | 247 | 15.874 | 28.970 | 14.605- | 19.818 | 6.220- | 21.131 | .134- | 122.5 | 21.950 | 18.906 | 1.217 | 368 |
| 200 | 09 | 262 | 22.061 | 36.669 | 21.835- | 23.587 | 3.147- | 28.076 | .113- | 106.5 | 28.473 | 23.107 | 1.253 | 364 |

**7. Greenland** — Danmarkshavn, Greenland — Europe

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 500 | 03 | 269 | 12.289 | 28.302 | 12.288- | 18.892 | 0.154- | 21.073 | .082 | 71.5 | 21.341 | 18.589 | 1.202 | 460 |

Kap Tobin, Greenland

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 500 | 03 | 260 | 14.456 | 33.174 | 14.250- | 23.238 | 2.431- | 23.675 | .059 | 53.5 | 24.221 | 22.669 | 1.248 | 460 |

## Narssarssuak, Greenland

| P | J | $\bar{\theta}$ | $\overline{\lvert V \rvert}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 133 | 3.256 | 13.428 | 2.372 | 10.974 | 2.231- | 7.738 | .053- | 175.0 | 10.992 | 7.714 | 1.434 | 418 |
| 850 | 03 | 121 | 2.860 | 11.446 | 2.453 | 9.179 | 1.471- | 6.838 | .081 | 7.5 | 9.217 | 6.786 | 1.362 | 416 |
| 850 | 06 | 130 | 2.890 | 9.988 | 2.222 | 8.286 | 1.848- | 5.577 | .027- | 177.5 | 8.290 | 5.571 | 1.367 | 394 |
| 850 | 09 | 124 | 3.548 | 12.500 | 2.941 | 10.072 | 1.984- | 7.404 | .081- | 172.0 | 10.112 | 7.349 | 1.418 | 417 |
| 700 | 12 | 235 | 7.025 | 25.495 | 5.760- | 18.262 | 4.022- | 17.790 | .331- | 137.0 | 20.811 | 14.727 | 1.183 | 452 |
| 700 | 03 | 254 | 5.168 | 22.478 | 4.973- | 15.632 | 1.406- | 16.152 | .251- | 131.5 | 17.806 | 13.719 | 1.169 | 455 |
| 700 | 06 | 213 | 1.701 | 19.153 | 0.932- | 14.834 | 1.423- | 12.116 | .141- | 162.0 | 15.099 | 11.784 | 1.192 | 460 |
| 700 | 09 | 231 | 5.401 | 22.751 | 4.211- | 15.281 | 3.383- | 16.855 | .338- | 127.0 | 18.691 | 12.971 | 1.199 | 452 |
| 500 | 12 | 233 | 16.791 | 35.687 | 13.359- | 25.489 | 10.173- | 24.978 | .156- | 138.0 | 27.171 | 23.137 | 1.187 | 456 |
| 500 | 03 | 246 | 13.633 | 33.757 | 12.469- | 23.600 | 5.512- | 24.137 | .185- | 131.5 | 26.019 | 21.507 | 1.161 | 455 |
| 500 | 06 | 266 | 6.405 | 26.763 | 6.391- | 18.999 | 0.433- | 18.849 | .116- | 136.5 | 20.018 | 17.764 | 1.173 | 460 |
| 500 | 09 | 248 | 13.712 | 32.772 | 12.744- | 23.525 | 5.062- | 22.816 | .175- | 139.5 | 25.158 | 21.001 | 1.177 | 454 |
| 300 | 12 | 235 | 29.280 | 41.206 | 23.856- | 29.139 | 16.977- | 29.136 | .201- | 135.0 | 31.917 | 26.063 | 1.228 | 451 |
| 300 | 03 | 250 | 22.091 | 41.545 | 20.698- | 29.192 | 7.719- | 29.561 | .106- | 131.5 | 30.889 | 27.783 | 1.176 | 429 |
| 300 | 06 | 255 | 12.545 | 36.925 | 12.121- | 24.822 | 3.232- | 27.338 | .075- | 109.0 | 27.672 | 24.449 | 1.181 | 368 |
| 300 | 09 | 245 | 22.846 | 41.467 | 20.631- | 28.995 | 9.814- | 29.644 | .044- | 122.0 | 30.045 | 28.579 | 1.202 | 364 |
| 200 | 12 | 237 | 34.631 | 34.980 | 29.160- | 25.673 | 18.683- | 23.758 | .144- | 148.5 | 26.686 | 22.615 | 1.284 | 450 |
| 200 | 03 | 247 | 22.876 | 34.251 | 21.105- | 24.366 | 8.824- | 24.072 | .127- | 137.0 | 25.711 | 22.629 | 1.226 | 429 |
| 200 | 06 | 250 | 15.113 | 29.749 | 14.211- | 20.803 | 5.145- | 21.267 | .066 | 53.5 | 21.723 | 20.325 | 1.193 | 368 |
| 200 | 09 | 249 | 27.088 | 35.668 | 25.294- | 24.765 | 9.696- | 25.668 | .152- | 128.5 | 27.115 | 23.172 | 1.221 | 365 |

## Thule, Greenland

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 159 | 4.882 | 17.746 | 1.728 | 11.406 | 4.566- | 13.595 | .125- | 107.5 | 13.821 | 11.131 | 1.167 | 451 |
| 700 | 03 | 158 | 2.683 | 17.139 | 0.990 | 10.816 | 2.494- | 13.296 | .006- | 91.0 | 13.297 | 10.815 | 1.167 | 460 |
| 700 | 06 | 170 | 4.587 | 14.787 | 0.774 | 9.414 | 4.521- | 11.403 | .114- | 105.5 | 11.550 | 9.233 | 1.169 | 460 |
| 700 | 09 | 173 | 4.694 | 16.450 | 0.542 | 9.784 | 4.663- | 13.223 | .169- | 104.5 | 13.435 | 9.490 | 1.173 | 455 |
| 500 | 12 | 173 | 9.607 | 27.193 | 1.234 | 18.425 | 9.527- | 19.999 | .041- | 103.5 | 20.089 | 18.327 | 1.162 | 451 |
| 500 | 03 | 222 | 4.082 | 25.883 | 2.747- | 17.863 | 3.019- | 18.730 | .051 | 66.5 | 18.929 | 17.652 | 1.139 | 460 |
| 500 | 09 | 201 | 5.431 | 21.669 | 1.960- | 13.965 | 5.065- | 16.569 | .037- | 96.0 | 16.597 | 13.932 | 1.146 | 460 |
| 500 | 09 | 191 | 8.075 | 24.298 | 1.550- | 15.551 | 7.924- | 18.670 | .081- | 102.0 | 18.804 | 15.389 | 1.161 | 455 |
| 300 | 12 | 178 | 11.427 | 30.526 | 0.441 | 21.402 | 11.418- | 21.767 | .109- | 130.5 | 22.750 | 20.354 | 1.171 | 451 |
| 300 | 03 | 243 | 7.857 | 28.343 | 6.992- | 20.119 | 3.582- | 19.963 | .008- | 156.0 | 20.155 | 19.926 | 1.148 | 460 |
| 300 | 06 | 221 | 7.794 | 31.529 | 5.162- | 21.665 | 5.840- | 22.906 | .043- | 109.0 | 23.068 | 21.492 | 1.157 | 461 |
| 300 | 09 | 204 | 11.332 | 30.585 | 4.583- | 19.814 | 10.364- | 23.299 | .123- | 108.5 | 23.709 | 19.322 | 1.168 | 455 |
| 200 | 12 | 179 | 9.478 | 24.163 | 0.192 | 17.925 | 9.477- | 16.203 | .217- | 147.5 | 19.015 | 14.909 | 1.169 | 450 |
| 200 | 03 | 258 | 8.170 | 20.462 | 7.977- | 14.416 | 1.761- | 14.522 | .055- | 131.0 | 14.868 | 14.059 | 1.158 | 460 |
| 200 | 06 | 216 | 5.605 | 20.327 | 3.269- | 13.855 | 4.554- | 14.874 | .002 | 89.0 | 14.874 | 13.855 | 1.186 | 459 |
| 200 | 09 | 215 | 9.555 | 22.139 | 5.477- | 15.732 | 7.830- | 15.577 | .085- | 138.5 | 16.316 | 14.964 | 1.196 | 453 |

## 8. Great Britain and Ireland

### Crawley, England

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 283 | 10.994 | 26.042 | 10.725- | 19.621 | 2.418 | 17.123 | .204 | 28.0 | 20.539 | 16.010 | 1.178 | 542 |
| 850 | 03 | 272 | 4.955 | 22.398 | 4.952- | 16.802 | 0.164 | 14.811 | .163 | 26.0 | 17.390 | 14.116 | 1.153 | 552 |
| 850 | 06 | 269 | 10.036 | 20.112 | 10.035- | 14.534 | 0.192- | 13.901 | .225 | 39.5 | 15.773 | 12.478 | 1.256 | 552 |
| 850 | 09 | 263 | 9.976 | 23.411 | 9.891- | 16.575 | 1.300- | 16.533 | .133 | 44.5 | 17.630 | 15.403 | 1.187 | 547 |
| 700 | 12 | 291 | 15.013 | 28.730 | 14.001- | 21.151 | 5.419 | 19.444 | .167 | 31.5 | 22.131 | 18.321 | 1.195 | 542 |
| 700 | 03 | 274 | 8.227 | 25.740 | 8.205- | 18.660 | 0.591 | 17.730 | .114 | 33.0 | 19.303 | 17.027 | 1.172 | 552 |
| 700 | 06 | 268 | 13.233 | 21.324 | 13.226- | 15.788 | 0.431- | 14.334 | .164 | 30.0 | 16.447 | 13.572 | 1.208 | 552 |
| 700 | 09 | 269 | 13.381 | 25.566 | 13.377- | 17.605 | 0.306- | 18.539 | .147 | 54.5 | 19.444 | 16.600 | 1.169 | 547 |
| 500 | 12 | 298 | 21.852 | 37.901 | 19.269- | 27.133 | 10.306 | 26.463 | .142 | 40.0 | 28.660 | 24.802 | 1.200 | 542 |
| 500 | 03 | 283 | 12.617 | 34.523 | 12.295- | 23.784 | 2.835 | 25.023 | .089 | 59.5 | 25.635 | 23.123 | 1.178 | 552 |
| 500 | 06 | 271 | 18.935 | 28.168 | 18.934- | 20.256 | 0.202 | 19.574 | .149 | 38.5 | 21.409 | 18.306 | 1.210 | 552 |
| 500 | 09 | 275 | 18.254 | 35.389 | 18.171- | 23.541 | 1.740 | 26.424 | .072 | 74.0 | 26.657 | 23.277 | 1.178 | 547 |
| 300 | 12 | 308 | 31.365 | 53.946 | 24.798- | 36.642 | 19.205 | 39.592 | .116 | 62.0 | 40.683 | 35.427 | 1.228 | 542 |
| 300 | 03 | 291 | 17.541 | 49.587 | 16.356- | 33.962 | 6.338 | 36.132 | .052 | 70.0 | 36.477 | 33.590 | 1.177 | 552 |
| 300 | 06 | 271 | 25.146 | 43.936 | 25.136- | 31.031 | 0.687 | 31.104 | .121 | 45.5 | 32.916 | 29.102 | 1.192 | 552 |
| 300 | 09 | 284 | 25.161 | 51.363 | 24.410- | 33.511 | 6.101 | 38.924 | .127 | 70.0 | 39.692 | 32.599 | 1.179 | 547 |
| 200 | 12 | 306 | 32.082 | 44.051 | 25.881- | 30.286 | 18.958 | 31.988 | .082 | 61.5 | 32.669 | 29.551 | 1.250 | 542 |
| 200 | 03 | 291 | 18.749 | 37.849 | 17.499- | 26.949 | 6.731 | 26.577 | .104 | 41.0 | 28.143 | 25.309 | 1.238 | 552 |
| 200 | 06 | 274 | 26.382 | 37.626 | 26.322- | 26.427 | 1.769 | 26.783 | .150 | 47.5 | 28.560 | 24.496 | 1.238 | 552 |
| 200 | 09 | 288 | 26.555 | 45.528 | 25.218- | 30.279 | 8.322 | 34.000 | .123 | 66.5 | 34.785 | 29.373 | 1.190 | 547 |

### Larkhill, England

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 276 | 13.236 | 25.060 | 13.164- | 18.902 | 1.375 | 16.453 | .124 | 21.0 | 19.300 | 15.984 | 1.169 | 431 |
| 850 | 03 | 265 | 5.359 | 21.866 | 5.338- | 16.549 | 0.472- | 14.292 | .167 | 24.5 | 17.081 | 13.652 | 1.158 | 451 |
| 850 | 06 | 255 | 10.373 | 15.963 | 10.015- | 11.729 | 2.701- | 10.829 | .173 | 32.5 | 12.314 | 10.159 | 1.236 | 433 |
| 850 | 09 | 259 | 10.625 | 22.394 | 10.423- | 16.238 | 2.059- | 15.421 | .065 | 26.0 | 16.467 | 15.176 | 1.178 | 433 |
| 700 | 12 | 281 | 17.126 | 28.551 | 16.783- | 20.892 | 3.408 | 19.460 | .155 | 33.0 | 21.837 | 18.393 | 1.178 | 451 |
| 700 | 03 | 270 | 9.316 | 25.168 | 9.316- | 18.137 | 0.040 | 17.449 | .098 | 34.0 | 18.726 | 16.815 | 1.162 | 461 |
| 700 | 06 | 259 | 14.660 | 18.790 | 14.414- | 12.735 | 2.673- | 13.816 | .197 | 56.0 | 14.633 | 11.787 | 1.185 | 460 |
| 700 | 09 | 264 | 15.229 | 24.524 | 15.140- | 17.258 | 1.638- | 17.424 | .044 | 51.0 | 17.736 | 16.937 | 1.186 | 455 |
| 500 | 12 | 288 | 24.200 | 37.952 | 22.973- | 26.391 | 7.607 | 27.274 | .169 | 50.5 | 29.069 | 24.400 | 1.218 | 450 |
| 500 | 03 | 277 | 13.266 | 35.164 | 13.170- | 24.290 | 1.591 | 25.426 | .049 | 66.5 | 25.644 | 24.059 | 1.178 | 460 |
| 500 | 06 | 260 | 21.136 | 26.357 | 20.826- | 17.830 | 3.606- | 19.411 | .049 | 75.0 | 19.557 | 17.670 | 1.209 | 460 |
| 500 | 09 | 272 | 22.042 | 34.754 | 22.033- | 23.574 | 0.643 | 25.536 | .013 | 85.5 | 25.535 | 23.575 | 1.218 | 455 |
| 300 | 12 | 296 | 32.444 | 51.692 | 29.200- | 35.237 | 14.142 | 37.821 | .179 | 56.0 | 39.904 | 32.859 | 1.205 | 450 |
| 300 | 03 | 280 | 19.338 | 49.042 | 19.028- | 32.942 | 3.446 | 36.332 | .008 | 87.5 | 36.329 | 32.945 | 1.176 | 429 |
| 300 | 06 | 261 | 29.293 | 41.271 | 28.970- | 27.042 | 4.343- | 31.178 | .082 | 75.0 | 31.483 | 26.686 | 1.219 | 369 |
| 300 | 09 | 278 | 30.665 | 54.067 | 30.367- | 35.819 | 4.262 | 40.500 | .023- | 95.5 | 40.570 | 35.739 | 1.196 | 364 |
| 200 | 12 | 299 | 32.211 | 41.819 | 28.198- | 27.893 | 15.571 | 31.159 | .185 | 60.5 | 32.578 | 26.220 | 1.219 | 442 |
| 200 | 03 | 281 | 18.224 | 37.338 | 17.909- | 26.702 | 3.372 | 26.098 | .066 | 35.5 | 27.281 | 25.493 | 1.193 | 428 |
| 200 | 06 | 265 | 29.807 | 36.335 | 29.711- | 23.835 | 2.393- | 27.426 | .193 | 63.0 | 28.587 | 22.428 | 1.221 | 368 |
| 200 | 09 | 279 | 32.750 | 45.980 | 32.367- | 30.368 | 4.996 | 34.524 | .012 | 87.5 | 34.527 | 30.366 | 1.222 | 363 |

## Lerwick, Scotland

| P | J | $\bar{\theta}$ | $\bar{M}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 251 | 13.696 | 27.579 | 12.987- | 19.094 | 4.350- | 19.900 | .028- | 107.0 | 20.001 | 18.989 | 1.147 | 411 |
| 850 | 03 | 262 | 7.698 | 22.257 | 7.619- | 15.938 | 1.101- | 15.536 | .074 | 35.5 | 16.367 | 15.083 | 1.165 | 415 |
| 850 | 06 | 241 | 7.602 | 19.476 | 6.674- | 13.009 | 3.639- | 14.494 | .072- | 107.0 | 14.632 | 12.854 | 1.159 | 432 |
| 850 | 09 | 234 | 11.414 | 25.653 | 9.268- | 17.746 | 6.662- | 18.525 | .072- | 120.0 | 18.875 | 17.373 | 1.171 | 425 |
| 700 | 12 | 263 | 17.394 | 27.960 | 17.255- | 19.348 | 2.192- | 20.185 | .034 | 70.5 | 20.279 | 19.249 | 1.181 | 451 |
| 700 | 03 | 263 | 11.908 | 23.450 | 11.816- | 17.196 | 1.482- | 15.944 | .021 | 8.0 | 17.198 | 15.942 | 1.182 | 460 |
| 700 | 06 | 246 | 11.063 | 20.536 | 10.081- | 13.656 | 4.557- | 15.337 | .077- | 106.5 | 15.498 | 13.474 | 1.174 | 459 |
| 700 | 09 | 246 | 13.427 | 26.156 | 12.234- | 18.636 | 5.532- | 18.353 | .025- | 150.5 | 18.813 | 18.171 | 1.160 | 455 |
| 500 | 12 | 270 | 24.087 | 37.999 | 24.087- | 25.699 | 0.046 | 27.991 | .000- | 90.5 | 27.992 | 25.698 | 1.238 | 451 |
| 500 | 03 | 268 | 17.754 | 31.618 | 17.740- | 21.804 | 0.699- | 22.897 | .009- | 96.0 | 22.897 | 21.804 | 1.194 | 460 |
| 500 | 06 | 248 | 15.716 | 27.090 | 14.584- | 18.542 | 5.855- | 19.750 | .120- | 121.0 | 20.399 | 17.826 | 1.189 | 460 |
| 500 | 09 | 252 | 17.941 | 35.239 | 17.098- | 24.312 | 5.434- | 25.510 | .009- | 95.5 | 25.506 | 24.316 | 1.191 | 454 |
| 300 | 12 | 281 | 33.661 | 49.875 | 32.988- | 34.258 | 6.697 | 36.248 | .013- | 96.5 | 36.251 | 34.255 | 1.279 | 449 |
| 300 | 03 | 271 | 26.027 | 45.462 | 26.025- | 30.185 | 0.322 | 33.995 | .028 | 83.0 | 34.057 | 30.115 | 1.204 | 429 |
| 300 | 06 | 255 | 24.247 | 45.547 | 23.450- | 31.017 | 6.166- | 33.353 | .232- | 126.5 | 35.905 | 28.024 | 1.203 | 368 |
| 300 | 09 | 257 | 20.261 | 51.056 | 19.777- | 32.896 | 4.401- | 39.046 | .001 | 89.5 | 39.047 | 32.895 | 1.197 | 364 |
| 200 | 12 | 283 | 34.183 | 39.434 | 33.311- | 25.753 | 7.673 | 29.864 | .093 | 74.0 | 30.218 | 25.336 | 1.258 | 442 |
| 200 | 03 | 274 | 24.418 | 33.682 | 24.360- | 22.763 | 1.682 | 24.826 | .034- | 101.0 | 24.891 | 22.692 | 1.243 | 429 |
| 200 | 08 | 259 | 22.241 | 31.828 | 21.810- | 21.730 | 4.358- | 23.255 | .270- | 128.0 | 25.442 | 19.124 | 1.217 | 368 |
| 200 | 09 | 269 | 21.453 | 40.629 | 21.448- | 26.730 | 0.472- | 30.598 | .026 | 84.5 | 30.644 | 26.676 | 1.216 | 364 |

## Stornoway, Scotland

| P | J | $\bar{\theta}$ | $\bar{M}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 259 | 13.773 | 28.098 | 13.520- | 19.393 | 2.628- | 20.332 | .198 | 51.5 | 21.791 | 17.738 | 1.165 | 542 |
| 850 | 03 | 251 | 8.525 | 23.736 | 8.062- | 16.532 | 2.773- | 17.032 | .105 | 53.0 | 17.672 | 15.845 | 1.172 | 552 |
| 850 | 06 | 251 | 8.844 | 19.106 | 8.365- | 13.459 | 2.871- | 13.561 | .155 | 46.5 | 14.519 | 12.419 | 1.192 | 552 |
| 850 | 09 | 245 | 14.720 | 24.983 | 13.304- | 16.881 | 6.300- | 18.418 | .009- | 93.5 | 18.421 | 16.878 | 1.168 | 546 |
| 700 | 12 | 268 | 17.049 | 29.537 | 17.040- | 20.695 | 0.538- | 21.075 | .210 | 47.5 | 22.980 | 18.557 | 1.183 | 542 |
| 700 | 03 | 262 | 10.144 | 27.615 | 10.055- | 19.003 | 1.340- | 20.036 | .063 | 65.0 | 20.319 | 18.701 | 1.183 | 552 |
| 700 | 06 | 256 | 10.651 | 21.493 | 10.343- | 15.355 | 2.541- | 15.039 | .022 | 23.5 | 15.349 | 15.045 | 1.186 | 552 |
| 700 | 09 | 254 | 17.027 | 28.128 | 16.390- | 19.615 | 4.615- | 20.160 | .068- | 124.0 | 20.631 | 19.119 | 1.165 | 546 |
| 500 | 12 | 275 | 22.984 | 40.004 | 22.884- | 27.499 | 2.144 | 29.054 | .075 | 63.0 | 29.596 | 26.914 | 1.211 | 542 |
| 500 | 03 | 271 | 15.598 | 36.506 | 15.595- | 25.681 | 0.314 | 25.947 | .120- | 132.5 | 27.301 | 24.236 | 1.214 | 552 |
| 500 | 06 | 262 | 15.066 | 28.350 | 14.920- | 20.088 | 2.096- | 20.005 | .114- | 136.0 | 21.160 | 18.868 | 1.225 | 552 |
| 500 | 09 | 262 | 22.661 | 40.393 | 22.420- | 26.968 | 3.296- | 30.072 | .072- | 107.0 | 30.353 | 26.651 | 1.190 | 546 |
| 300 | 12 | 283 | 32.517 | 53.163 | 31.727- | 36.423 | 7.124 | 38.726 | .023 | 79.5 | 38.860 | 36.280 | 1.242 | 542 |
| 300 | 03 | 277 | 22.662 | 48.982 | 22.512- | 33.527 | 2.599 | 35.710 | .088- | 117.5 | 36.479 | 32.689 | 1.218 | 552 |
| 300 | 06 | 264 | 22.011 | 44.457 | 21.907- | 30.768 | 2.138- | 32.090 | .140- | 126.5 | 33.674 | 29.026 | 1.227 | 552 |
| 300 | 09 | 268 | 30.640 | 56.098 | 30.613- | 38.051 | 1.281- | 41.220 | .092- | 114.5 | 41.975 | 37.217 | 1.186 | 546 |
| 200 | 12 | 286 | 34.731 | 41.554 | 33.404- | 28.795 | 9.508 | 29.960 | .006 | 85.0 | 29.963 | 28.792 | 1.283 | 542 |
| 200 | 03 | 280 | 18.968 | 33.975 | 18.675- | 23.623 | 3.319 | 24.417 | .075- | 123.0 | 25.019 | 22.985 | 1.228 | 552 |
| 200 | 06 | 267 | 19.757 | 32.112 | 19.732- | 22.136 | 0.975- | 23.263 | .074- | 118.0 | 23.725 | 21.640 | 1.264 | 552 |
| 200 | 09 | 273 | 30.003 | 46.292 | 29.968- | 30.050 | 1.442 | 35.213 | .073- | 102.5 | 35.438 | 29.785 | 1.206 | 546 |

## Valentia, Ireland

| P | J | $\bar{\theta}$ | $\bar{M}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 266 | 15.498 | 26.727 | 15.461- | 17.335 | 1.074- | 20.343 | .022- | 94.0 | 20.342 | 17.336 | 1.145 | 400 |
| 850 | 03 | 258 | 6.862 | 22.332 | 6.722- | 15.279 | 1.376- | 16.288 | .031- | 103.5 | 16.340 | 15.223 | 1.158 | 430 |
| 850 | 06 | 262 | 10.674 | 18.632 | 10.572- | 12.927 | 1.476- | 13.418 | .017 | 77.0 | 13.420 | 12.925 | 1.174 | 419 |
| 850 | 09 | 250 | 13.297 | 24.681 | 12.516- | 16.863 | 4.488- | 18.023 | .074- | 114.0 | 18.275 | 16.589 | 1.134 | 415 |
| 700 | 12 | 270 | 21.924 | 29.962 | 21.923- | 20.471 | 0.182 | 21.878 | .059 | 69.0 | 22.082 | 20.251 | 1.162 | 452 |
| 700 | 03 | 267 | 10.743 | 26.914 | 10.726- | 19.658 | 0.611- | 18.383 | .009- | 176.0 | 19.661 | 18.381 | 1.173 | 459 |
| 700 | 06 | 263 | 15.772 | 20.866 | 15.652- | 14.243 | 1.942- | 15.250 | .078 | 65.5 | 15.494 | 13.977 | 1.202 | 460 |
| 700 | 09 | 261 | 18.678 | 27.565 | 18.454- | 19.126 | 2.886- | 19.849 | .019 | 76.0 | 19.859 | 19.117 | 1.148 | 454 |
| 500 | 12 | 276 | 29.280 | 39.398 | 29.135- | 25.902 | 2.912 | 29.687 | .060 | 78.0 | 29.866 | 25.695 | 1.196 | 450 |
| 500 | 03 | 274 | 16.497 | 35.684 | 16.453- | 25.148 | 1.197 | 25.316 | .058- | 131.5 | 25.922 | 24.523 | 1.184 | 460 |
| 500 | 06 | 264 | 21.637 | 27.176 | 21.527- | 18.940 | 2.178- | 19.489 | .107 | 52.5 | 20.231 | 18.144 | 1.196 | 458 |
| 500 | 09 | 266 | 24.187 | 36.809 | 24.128- | 25.509 | 1.684- | 26.536 | .009 | 83.0 | 26.539 | 25.506 | 1.182 | 456 |
| 300 | 12 | 282 | 38.085 | 52.721 | 37.201- | 33.305 | 8.160 | 40.869 | .122 | 74.5 | 41.426 | 32.610 | 1.217 | 449 |
| 300 | 03 | 279 | 22.133 | 47.970 | 21.886- | 34.092 | 3.302 | 33.747 | .036 | 37.0 | 34.475 | 33.356 | 1.176 | 429 |
| 300 | 06 | 269 | 30.969 | 41.643 | 30.960- | 29.173 | 0.737- | 29.717 | .134 | 49.0 | 31.376 | 27.381 | 1.203 | 368 |
| 300 | 09 | 278 | 32.742 | 52.780 | 32.449- | 37.250 | 4.368 | 37.393 | .093 | 46.0 | 39.052 | 35.507 | 1.198 | 364 |
| 200 | 12 | 284 | 36.716 | 44.897 | 35.629- | 28.513 | 8.868 | 34.681 | .181 | 68.5 | 35.678 | 27.255 | 1.202 | 442 |
| 200 | 03 | 278 | 19.943 | 36.958 | 19.728- | 26.212 | 2.925 | 26.055 | .087 | 43.0 | 27.279 | 24.935 | 1.194 | 429 |
| 200 | 06 | 267 | 29.653 | 36.193 | 29.622- | 25.209 | 1.373- | 25.969 | .143 | 51.0 | 27.379 | 23.670 | 1.216 | 368 |
| 200 | 09 | 276 | 33.723 | 46.705 | 33.512- | 32.421 | 3.762 | 33.619 | .115 | 54.0 | 34.947 | 30.986 | 1.203 | 364 |

## 9. Norway — Gardermoen, Norway

| P | J | $\bar{\theta}$ | $\bar{M}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 01 | 276 | 6.312 | 22.416 | 6.274- | 15.517 | 0.687 | 16.177 | .036 | 69.0 | 16.258 | 15.432 | 1.146 | 540 |
| 850 | 01 | 294 | 4.188 | 18.349 | 3.820- | 11.554 | 1.717 | 14.255 | .108 | 76.5 | 14.408 | 11.363 | 1.193 | 552 |
| 850 | 01 | 237 | 3.942 | 15.387 | 3.308- | 9.593 | 2.143- | 12.031 | .085 | 79.5 | 12.102 | 9.504 | 1.175 | 552 |
| 850 | 01 | 266 | 7.573 | 20.500 | 7.559- | 13.733 | 0.465- | 15.220 | .031 | 81.5 | 15.256 | 13.694 | 1.182 | 545 |
| 700 | 01 | 289 | 9.585 | 25.759 | 9.089- | 18.123 | 3.043 | 18.305 | .065 | 49.5 | 18.789 | 17.621 | 1.171 | 540 |
| 700 | 01 | 288 | 8.636 | 22.067 | 8.194- | 14.100 | 2.729 | 16.975 | .095 | 76.5 | 17.133 | 13.907 | 1.182 | 552 |
| 700 | 01 | 251 | 7.271 | 17.743 | 6.880- | 11.684 | 2.351- | 13.352 | .031 | 83.5 | 13.377 | 11.656 | 1.163 | 552 |
| 700 | 01 | 271 | 10.903 | 22.572 | 10.900- | 15.103 | 0.284 | 16.775 | .017 | 85.5 | 16.777 | 15.100 | 1.175 | 545 |
| 500 | 01 | 293 | 16.462 | 34.675 | 15.202- | 22.427 | 6.315 | 26.446 | .012- | 92.0 | 26.448 | 22.425 | 1.193 | 540 |
| 500 | 01 | 297 | 15.716 | 32.176 | 14.064- | 19.437 | 7.013 | 25.641 | .081 | 82.0 | 25.760 | 19.279 | 1.186 | 552 |
| 500 | 01 | 256 | 11.088 | 24.517 | 10.739- | 17.121 | 2.760- | 17.548 | .002 | 87.5 | 17.548 | 17.121 | 1.178 | 552 |
| 500 | 01 | 278 | 16.517 | 30.595 | 16.362- | 20.178 | 2.264 | 22.997 | .008 | 88.0 | 22.999 | 20.176 | 1.189 | 545 |
| 300 | 01 | 297 | 24.818 | 45.839 | 22.016- | 29.031 | 11.454 | 35.475 | .068 | 80.5 | 35.647 | 28.819 | 1.194 | 540 |
| 300 | 01 | 295 | 22.236 | 43.522 | 20.201- | 25.754 | 9.293 | 35.084 | .130 | 79.0 | 35.417 | 25.294 | 1.178 | 552 |
| 300 | 01 | 256 | 17.498 | 37.791 | 16.968- | 25.672 | 4.273- | 27.733 | .014- | 95.5 | 27.736 | 25.669 | 1.182 | 552 |
| 300 | 01 | 278 | 24.317 | 44.875 | 24.097- | 29.782 | 3.268 | 33.567 | .035 | 81.5 | 33.631 | 29.711 | 1.219 | 545 |
| 200 | 01 | 294 | 27.383 | 42.017 | 25.024- | 27.197 | 11.118 | 32.028 | .074 | 77.5 | 32.262 | 26.919 | 1.258 | 540 |
| 200 | 01 | 292 | 20.992 | 36.093 | 19.506- | 22.251 | 7.756 | 28.418 | .118 | 77.0 | 28.715 | 21.866 | 1.187 | 552 |
| 200 | 01 | 247 | 17.499 | 32.804 | 16.062- | 22.022 | 6.944- | 24.313 | .007- | 92.5 | 24.313 | 22.022 | 1.191 | 552 |
| 200 | 01 | 278 | 26.455 | 40.218 | 26.181- | 25.762 | 3.799 | 30.884 | .051 | 82.0 | 30.988 | 25.637 | 1.252 | 545 |

## Tromso, Norway

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 201 | 7.139 | 11.697 | 2.595- | 8.309 | 6.651- | 8.232 | .300 | 44.0 | 9.438 | 6.910 | 1.274 | 109 |
| 850 | 03 | 191 | 3.601 | 12.355 | 0.700- | 8.309 | 3.532- | 9.144 | .233 | 56.0 | 9.776 | 7.555 | 1.338 | 100 |
| 850 | 06 | 208 | 4.565 | 11.022 | 2.175- | 7.314 | 4.013- | 8.245 | .179 | 62.0 | 8.587 | 6.909 | 1.330 | 146 |
| 850 | 09 | 203 | 7.528 | 13.292 | 2.927- | 9.876 | 6.936- | 8.897 | .229 | 33.0 | 10.514 | 8.133 | 1.370 | 100 |
| 700 | 12 | 253 | 10.635 | 19.879 | 10.151- | 14.331 | 3.170- | 13.777 | .127 | 36.5 | 14.958 | 13.094 | 1.201 | 450 |
| 700 | 03 | 268 | 11.109 | 19.408 | 11.103- | 14.025 | 0.372- | 13.416 | .018- | 168.5 | 14.023 | 13.418 | 1.200 | 460 |
| 700 | 06 | 239 | 6.546 | 14.886 | 5.635- | 10.231 | 3.333- | 10.813 | .010- | 95.0 | 10.811 | 10.233 | 1.166 | 460 |
| 700 | 09 | 248 | 11.247 | 18.489 | 10.443- | 13.016 | 4.177- | 13.131 | .072- | 131.5 | 13.532 | 12.599 | 1.174 | 455 |
| 500 | 12 | 261 | 14.368 | 24.571 | 14.176- | 16.781 | 2.336- | 17.948 | .131 | 58.5 | 18.604 | 16.051 | 1.213 | 451 |
| 500 | 03 | 270 | 17.601 | 26.519 | 17.601- | 17.145 | 0.072 | 20.231 | .001 | 89.5 | 20.232 | 17.144 | 1.188 | 460 |
| 500 | 06 | 236 | 10.880 | 20.490 | 8.979- | 13.851 | 6.145- | 15.098 | .058- | 107.0 | 15.212 | 13.727 | 1.181 | 460 |
| 500 | 09 | 255 | 16.270 | 22.528 | 15.709- | 15.033 | 4.235- | 16.779 | .053- | 103.0 | 16.876 | 14.924 | 1.219 | 455 |
| 300 | 12 | 265 | 19.751 | 32.134 | 19.676- | 21.292 | 1.721- | 24.068 | .090 | 72.0 | 24.376 | 20.938 | 1.195 | 451 |
| 300 | 03 | 268 | 24.502 | 33.564 | 24.493- | 20.876 | 0.693- | 26.282 | .039 | 85.0 | 26.326 | 20.821 | 1.165 | 460 |
| 300 | 06 | 233 | 15.659 | 26.672 | 12.544- | 18.216 | 9.373- | 19.482 | .083- | 115.5 | 19.846 | 17.819 | 1.156 | 460 |
| 300 | 09 | 257 | 23.755 | 31.377 | 23.179- | 19.429 | 5.199- | 24.639 | .106- | 102.0 | 24.850 | 19.158 | 1.187 | 455 |
| 200 | 12 | 276 | 19.755 | 29.304 | 19.652- | 18.485 | 2.022 | 22.738 | .071 | 80.5 | 22.845 | 18.352 | 1.178 | 451 |
| 200 | 03 | 272 | 22.914 | 29.039 | 22.904- | 18.180 | 0.696 | 22.644 | .060 | 82.5 | 22.724 | 18.080 | 1.173 | 458 |
| 200 | 06 | 243 | 14.370 | 23.654 | 12.836- | 16.041 | 6.460- | 17.383 | .087- | 114.0 | 17.704 | 15.687 | 1.168 | 458 |
| 200 | 09 | 265 | 23.365 | 30.169 | 23.270- | 19.547 | 2.107- | 22.9 0 | .000- | 90.0 | 22.980 | 19.547 | 1.191 | 451 |

## 10. Sweden — Stockholm, Sweden

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 267 | 6.237 | 21.935 | 6.229- | 15.484 | 0.316- | 15.537 | .055 | 47.0 | 15.927 | 15.083 | 1.150 | 440 |
| 850 | 03 | 275 | 6.467 | 20.797 | 6.438- | 13.651 | 0.616 | 15.691 | .164 | 65.0 | 16.199 | 13.043 | 1.151 | 452 |
| 850 | 06 | 261 | 5.930 | 17.598 | 5.861- | 11.880 | 0.901- | 12.982 | .110 | 64.5 | 13.291 | 11.534 | 1.149 | 454 |
| 850 | 09 | 255 | 6.904 | 21.910 | 6.671- | 15.948 | 1.780- | 15.024 | .000 | 0.0 | 15.950 | 15.022 | 1.165 | 448 |
| 700 | 12 | 272 | 9.402 | 23.712 | 9.394- | 16.316 | 0.390 | 17.207 | .001- | 90.5 | 17.202 | 16.321 | 1.164 | 451 |
| 700 | 03 | 278 | 11.220 | 23.353 | 11.098- | 14.267 | 1.647 | 18.488 | .106 | 79.0 | 18.631 | 14.079 | 1.151 | 459 |
| 700 | 06 | 263 | 8.855 | 19.805 | 8.785- | 13.464 | 1.111- | 14.524 | .112 | 62.0 | 14.931 | 13.012 | 1.142 | 460 |
| 700 | 09 | 257 | 9.796 | 23.248 | 9.551- | 15.852 | 2.175- | 17.006 | .002 | 89.0 | 16.999 | 15.858 | 1.161 | 455 |
| 500 | 12 | 281 | 14.100 | 32.524 | 13.856- | 20.669 | 2.612 | 25.112 | .049- | 97.0 | 25.163 | 20.607 | 1.174 | 449 |
| 500 | 03 | 280 | 17.412 | 32.882 | 17.145- | 20.478 | 3.037 | 25.728 | .088 | 79.5 | 25.898 | 20.262 | 1.164 | 459 |
| 500 | 06 | 260 | 13.620 | 26.083 | 13.398- | 17.235 | 2.448- | 19.577 | .090 | 72.5 | 19.821 | 16.955 | 1.174 | 460 |
| 500 | 09 | 263 | 14.480 | 32.640 | 14.382- | 22.625 | 1.687- | 23.527 | .044- | 114.5 | 23.753 | 22.387 | 1.195 | 455 |
| 300 | 12 | 283 | 21.641 | 45.604 | 21.044- | 28.993 | 5.049 | 35.201 | .042- | 96.0 | 35.273 | 28.905 | 1.218 | 452 |
| 300 | 03 | 278 | 22.858 | 45.021 | 22.639- | 28.234 | 3.157 | 35.068 | .101 | 77.5 | 35.374 | 27.850 | 1.148 | 460 |
| 300 | 06 | 261 | 22.446 | 40.080 | 22.188- | 26.731 | 3.397- | 29.864 | .004 | 89.0 | 29.862 | 26.733 | 1.211 | 460 |
| 300 | 09 | 269 | 20.289 | 45.705 | 20.282- | 29.259 | 0.510- | 35.112 | .010- | 91.5 | 35.111 | 29.260 | 1.176 | 453 |
| 200 | 12 | 288 | 22.503 | 35.244 | 21.382- | 23.168 | 7.014 | 26.559 | .013 | 87.0 | 26.560 | 23.167 | 1.219 | 464 |
| 200 | 03 | 278 | 21.979 | 34.362 | 21.761- | 22.161 | 3.083 | 26.261 | .148 | 69.5 | 26.867 | 21.421 | 1.177 | 447 |
| 200 | 06 | 261 | 19.700 | 29.338 | 19.451- | 19.296 | 3.121- | 22.100 | .015 | 87.0 | 22.100 | 19.296 | 1.218 | 460 |
| 200 | 09 | 271 | 22.518 | 36.705 | 22.516- | 24.602 | 0.332 | 27.239 | .045- | 102.0 | 27.354 | 24.474 | 1.195 | 455 |

## 11. France — Bordeaux, France

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 299 | 11.334 | 23.588 | 9.922- | 18.337 | 5.478 | 14.837 | .121 | 15.0 | 18.579 | 14.533 | 1.130 | 452 |
| 700 | 03 | 267 | 7.428 | 21.345 | 7.419- | 15.937 | 0.350- | 14.198 | .149 | 26.0 | 16.462 | 13.586 | 1.116 | 460 |
| 700 | 06 | 257 | 13.049 | 15.974 | 12.705- | 11.558 | 2.977- | 11.026 | .154 | 36.5 | 12.175 | 10.341 | 1.200 | 460 |
| 700 | 09 | 272 | 13.437 | 19.433 | 13.429- | 14.015 | 0.468 | 13.462 | .107 | 34.5 | 14.493 | 12.946 | 1.195 | 454 |
| 500 | 12 | 306 | 17.529 | 33.477 | 14.099- | 25.296 | 10.415 | 21.928 | .114 | 19.5 | 25.730 | 21.418 | 1.152 | 450 |
| 500 | 03 | 275 | 13.045 | 29.543 | 12.989- | 21.331 | 1.204 | 20.439 | .145 | 37.0 | 22.413 | 19.247 | 1.146 | 460 |
| 500 | 06 | 260 | 18.892 | 22.010 | 18.579- | 14.900 | 3.420- | 16.199 | .211 | 56.0 | 17.241 | 13.681 | 1.215 | 459 |
| 500 | 09 | 277 | 19.320 | 26.453 | 19.187- | 18.254 | 2.269 | 19.144 | .109 | 57.0 | 19.793 | 17.549 | 1.210 | 455 |
| 300 | 12 | 312 | 26.900 | 44.823 | 20.088- | 32.848 | 17.892 | 30.498 | .140 | 31.0 | 34.124 | 29.063 | 1.160 | 429 |
| 300 | 03 | 284 | 18.335 | 41.360 | 17.799- | 28.824 | 4.398 | 29.662 | .160 | 50.0 | 31.550 | 26.744 | 1.144 | 429 |
| 300 | 06 | 261 | 26.511 | 30.261 | 26.216- | 21.530 | 3.941- | 21.265 | .235 | 43.5 | 23.779 | 18.717 | 1.189 | 368 |
| 300 | 09 | 274 | 30.923 | 42.182 | 30.831- | 28.627 | 2.376 | 30.981 | .078 | 67.5 | 31.431 | 28.132 | 1.220 | 364 |
| 200 | 12 | 310 | 27.276 | 41.213 | 21.020- | 30.780 | 17.381 | 27.406 | .220 | 31.0 | 32.560 | 25.265 | 1.171 | 440 |
| 200 | 03 | 284 | 18.540 | 37.561 | 17.951- | 26.950 | 4.638 | 26.165 | .203 | 41.0 | 29.177 | 23.655 | 1.159 | 429 |
| 200 | 06 | 264 | 27.954 | 31.288 | 27.796- | 22.244 | 2.964- | 22.003 | .226 | 43.5 | 24.497 | 19.463 | 1.192 | 368 |
| 200 | 09 | 278 | 31.961 | 40.367 | 31.644- | 27.195 | 4.494 | 29.832 | .045 | 77.0 | 29.966 | 27.046 | 1.190 | 364 |

## Brest, France

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 283 | 15.211 | 25.582 | 14.833- | 18.950 | 3.371 | 17.185 | .203 | 32.0 | 20.011 | 15.937 | 1.167 | 451 |
| 700 | 03 | 270 | 7.667 | 24.026 | 7.667- | 17.492 | 0.021 | 16.471 | .161 | 35.0 | 18.390 | 15.462 | 1.135 | 460 |
| 700 | 06 | 259 | 13.126 | 17.242 | 12.886- | 12.095 | 2.498- | 12.288 | .198 | 47.5 | 13.358 | 10.901 | 1.172 | 460 |
| 700 | 09 | 266 | 15.051 | 22.329 | 15.019- | 15.171 | 0.977- | 16.384 | .069 | 69.0 | 16.590 | 14.945 | 1.157 | 455 |
| 500 | 12 | 290 | 21.534 | 35.828 | 20.175- | 25.906 | 7.529 | 24.749 | .208 | 39.0 | 27.892 | 22.487 | 1.172 | 451 |
| 500 | 03 | 281 | 12.667 | 32.755 | 12.436- | 22.844 | 2.406 | 23.474 | .075 | 55.0 | 24.094 | 22.189 | 1.139 | 460 |
| 500 | 06 | 262 | 19.260 | 23.763 | 19.052- | 17.038 | 2.821- | 16.564 | .163 | 40.0 | 18.150 | 15.338 | 1.202 | 460 |
| 500 | 09 | 272 | 21.139 | 31.452 | 21.120- | 21.900 | 0.892 | 22.576 | .112 | 52.5 | 23.513 | 20.891 | 1.182 | 455 |
| 300 | 12 | 299 | 30.578 | 48.219 | 26.705- | 32.899 | 14.895 | 35.252 | .208 | 54.0 | 37.665 | 30.106 | 1.197 | 434 |
| 300 | 03 | 284 | 17.744 | 45.157 | 17.201- | 31.325 | 4.357 | 32.525 | .140 | 52.5 | 34.185 | 29.504 | 1.134 | 429 |
| 300 | 06 | 263 | 28.716 | 36.042 | 28.525- | 25.484 | 3.305- | 25.487 | .197 | 45.0 | 27.888 | 22.832 | 1.223 | 368 |
| 300 | 09 | 276 | 31.253 | 48.069 | 31.083- | 32.648 | 3.252 | 35.281 | .101 | 64.0 | 36.070 | 31.774 | 1.160 | 364 |
| 200 | 12 | 300 | 30.124 | 41.625 | 26.163- | 29.017 | 14.931 | 29.844 | .222 | 48.5 | 32.552 | 25.943 | 1.195 | 442 |
| 200 | 03 | 289 | 16.601 | 37.552 | 15.654- | 26.776 | 5.529 | 26.328 | .169 | 42.0 | 28.735 | 24.175 | 1.167 | 429 |
| 200 | 06 | 264 | 27.306 | 34.099 | 27.178- | 23.159 | 2.642- | 25.029 | .276 | 53.0 | 27.356 | 20.357 | 1.167 | 368 |
| 200 | 09 | 279 | 32.469 | 43.860 | 32.063- | 29.217 | 5.121 | 32.712 | .143 | 64.0 | 33.689 | 28.084 | 1.177 | 364 |

## Nimes, France

| P | J | $\bar{\theta}$ | $\|\bar{V}\|$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 337 | 8.323 | 23.102 | 3.256- | 12.981 | 7.660 | 19.110 | .133- | 99.5 | 19.253 | 12.768 | 1.194 | 542 |
| 850 | 03 | 354 | 4.970 | 22.308 | 0.528- | 10.792 | 4.941 | 19.524 | .224- | 100.0 | 19.731 | 10.408 | 1.226 | 549 |
| 850 | 06 | 322 | 7.432 | 17.132 | 4.623- | 8.686 | 5.819 | 14.767 | .066- | 93.5 | 14.783 | 8.659 | 1.197 | 551 |
| 850 | 09 | 319 | 4.043 | 21.604 | 2.658- | 10.616 | 3.046 | 18.816 | .186- | 98.5 | 18.966 | 10.346 | 1.186 | 583 |
| 700 | 12 | 314 | 12.315 | 24.608 | 8.870- | 16.246 | 8.543 | 18.483 | .093- | 108.0 | 18.734 | 15.956 | 1.207 | 542 |
| 700 | 03 | 293 | 8.442 | 21.792 | 7.774- | 14.030 | 3.290 | 16.676 | .115- | 107.0 | 16.912 | 13.744 | 1.200 | 549 |
| 700 | 06 | 279 | 13.602 | 17.545 | 13.439- | 10.958 | 2.097 | 13.702 | .012 | 88.5 | 13.702 | 10.958 | 1.222 | 551 |
| 700 | 09 | 282 | 9.138 | 22.379 | 8.935- | 14.142 | 1.916 | 17.344 | .017- | 92.5 | 17.345 | 14.141 | 1.206 | 583 |
| 500 | 12 | 306 | 16.510 | 33.017 | 13.272- | 23.445 | 9.820 | 23.248 | .004- | 164.5 | 23.445 | 23.248 | 1.186 | 542 |
| 500 | 03 | 286 | 13.814 | 29.058 | 13.260- | 19.664 | 3.873 | 21.393 | .096 | 65.5 | 21.809 | 19.202 | 1.194 | 549 |
| 500 | 06 | 271 | 22.290 | 24.216 | 22.289- | 16.507 | 0.211 | 17.718 | .225 | 53.5 | 19.038 | 14.965 | 1.281 | 551 |
| 500 | 09 | 276 | 16.989 | 32.628 | 16.904- | 23.577 | 1.699 | 22.555 | .222 | 39.5 | 25.564 | 20.275 | 1.242 | 583 |
| 300 | 12 | 310 | 23.046 | 46.265 | 17.536- | 32.950 | 14.953 | 32.477 | .169 | 42.5 | 35.398 | 29.789 | 1.189 | 542 |
| 300 | 03 | 284 | 20.611 | 40.601 | 19.964- | 27.932 | 5.124 | 29.466 | .196 | 52.5 | 31.475 | 25.648 | 1.189 | 549 |
| 300 | 06 | 271 | 31.288 | 35.036 | 31.282- | 24.006 | 0.597 | 25.520 | .235 | 52.5 | 27.609 | 21.571 | 1.280 | 551 |
| 300 | 09 | 278 | 25.808 | 50.297 | 25.527- | 36.245 | 3.800 | 34.872 | .306 | 41.5 | 40.688 | 29.568 | 1.272 | 583 |
| 200 | 12 | 306 | 27.891 | 42.666 | 22.672- | 30.641 | 16.244 | 29.690 | .187 | 40.0 | 32.905 | 27.159 | 1.220 | 542 |
| 200 | 03 | 285 | 23.655 | 37.132 | 22.892- | 25.062 | 5.961 | 27.399 | .317 | 53.0 | 30.266 | 21.511 | 1.232 | 549 |
| 200 | 06 | 271 | 36.174 | 35.571 | 36.164- | 24.979 | 0.879 | 25.324 | .257 | 46.5 | 28.225 | 21.648 | 1.261 | 551 |
| 200 | 09 | 281 | 29.455 | 48.986 | 28.867- | 35.570 | 5.854 | 33.682 | .337 | 40.5 | 40.119 | 28.109 | 1.298 | 583 |

## 12. Germany

## Berlin, Germany

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 278 | 10.667 | 23.095 | 10.559- | 18.504 | 1.513 | 13.819 | .066- | 173.5 | 18.551 | 13.756 | 1.177 | 544 |
| 850 | 03 | 286 | 6.111 | 20.357 | 5.879- | 16.488 | 1.664 | 11.940 | .073- | 173.5 | 16.532 | 11.878 | 1.174 | 552 |
| 850 | 06 | 266 | 9.793 | 16.034 | 9.774- | 13.265 | 0.598- | 9.008 | .081- | 174.0 | 13.303 | 8.951 | 1.206 | 552 |
| 850 | 09 | 267 | 10.706 | 19.820 | 10.692- | 15.588 | 0.544- | 12.242 | .230- | 158.5 | 16.138 | 11.507 | 1.198 | 545 |
| 700 | 12 | 287 | 13.488 | 26.190 | 12.869- | 20.037 | 4.038 | 16.866 | .002- | 179.5 | 20.038 | 16.865 | 1.189 | 544 |
| 700 | 03 | 283 | 9.184 | 23.139 | 8.931- | 17.380 | 2.141 | 15.275 | .001 | 0.5 | 17.382 | 15.273 | 1.166 | 552 |
| 700 | 06 | 260 | 13.163 | 19.521 | 12.967- | 15.719 | 2.259- | 11.575 | .047 | 4.5 | 15.737 | 11.550 | 1.228 | 552 |
| 700 | 09 | 270 | 13.222 | 22.248 | 13.222- | 16.890 | 0.042 | 14.482 | .009- | 178.5 | 16.893 | 14.479 | 1.199 | 545 |
| 500 | 12 | 296 | 18.398 | 35.686 | 16.562- | 24.834 | 8.013 | 25.627 | .014 | 77.0 | 25.628 | 24.833 | 1.193 | 544 |
| 500 | 03 | 284 | 13.919 | 32.745 | 13.506- | 22.969 | 3.367 | 23.339 | .111 | 49.0 | 24.401 | 21.837 | 1.186 | 552 |
| 500 | 06 | 259 | 17.662 | 27.173 | 17.359- | 20.889 | 3.257- | 17.378 | .107 | 15.0 | 21.148 | 17.062 | 1.243 | 552 |
| 500 | 09 | 276 | 17.592 | 31.895 | 17.499- | 22.263 | 1.810 | 22.840 | .088 | 53.0 | 23.575 | 21.483 | 1.186 | 545 |
| 300 | 12 | 296 | 22.870 | 45.762 | 20.545- | 32.534 | 10.047 | 32.182 | .067 | 40.5 | 33.494 | 31.181 | 1.190 | 544 |
| 300 | 03 | 292 | 17.571 | 44.839 | 16.261- | 30.422 | 6.657 | 32.940 | .113 | 62.5 | 33.833 | 29.426 | 1.163 | 552 |
| 300 | 06 | 259 | 24.997 | 41.928 | 24.536- | 29.162 | 4.780- | 30.125 | .001 | 89.0 | 30.138 | 29.150 | 1.214 | 552 |
| 300 | 09 | 278 | 23.950 | 47.225 | 23.714- | 31.985 | 3.350 | 34.744 | .171 | 58.0 | 36.408 | 30.078 | 1.171 | 545 |
| 200 | 12 | 299 | 25.219 | 39.969 | 22.079- | 27.009 | 12.187 | 29.463 | .142 | 61.0 | 30.511 | 25.819 | 1.244 | 544 |
| 200 | 03 | 289 | 18.840 | 38.714 | 17.778- | 26.525 | 6.235 | 28.200 | .060 | 68.0 | 28.552 | 26.146 | 1.212 | 552 |
| 200 | 06 | 261 | 25.263 | 38.135 | 24.926- | 26.730 | 4.118- | 27.200 | .069 | 52.0 | 27.927 | 25.969 | 1.262 | 552 |
| 200 | 09 | 282 | 26.004 | 43.033 | 25.447- | 29.702 | 5.356 | 31.138 | .085 | 59.5 | 31.857 | 28.930 | 1.181 | 545 |

## 13. Portugal

## Funchal, Madeira Is., Portugal

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 315 | 9.921 | 19.001 | 7.040- | 12.868 | 6.990 | 13.981 | .097 | 64.5 | 14.254 | 12.565 | 1.157 | 447 |
| 700 | 03 | 289 | 10.935 | 18.904 | 10.356- | 13.447 | 3.512 | 13.286 | .243 | 43.5 | 14.918 | 11.611 | 1.164 | 457 |
| 700 | 06 | 287 | 7.075 | 14.773 | 6.757- | 10.701 | 2.099 | 10.185 | .204 | 38.0 | 11.494 | 9.281 | 1.153 | 457 |
| 700 | 09 | 289 | 8.359 | 17.005 | 7.884- | 12.165 | 2.775 | 11.881 | .255 | 42.5 | 13.476 | 10.371 | 1.178 | 454 |
| 500 | 12 | 302 | 17.971 | 26.006 | 15.172- | 17.828 | 9.632 | 18.933 | .235 | 51.5 | 20.509 | 15.991 | 1.180 | 450 |
| 500 | 03 | 281 | 18.883 | 23.933 | 18.519- | 16.030 | 3.692 | 17.772 | .279 | 54.5 | 19.268 | 14.197 | 1.188 | 443 |
| 500 | 06 | 270 | 12.708 | 18.212 | 12.707- | 12.869 | 0.067 | 12.886 | .226 | 44.5 | 14.270 | 11.314 | 1.234 | 456 |
| 500 | 09 | 281 | 14.951 | 20.135 | 14.674- | 13.908 | 2.866 | 14.560 | .206 | 50.5 | 15.675 | 12.638 | 1.240 | 454 |
| 300 | 12 | 294 | 27.955 | 34.585 | 25.608- | 22.165 | 11.212 | 26.548 | .197 | 66.0 | 27.493 | 20.982 | 1.152 | 447 |
| 300 | 03 | 279 | 32.123 | 32.293 | 31.693- | 21.898 | 5.238 | 23.735 | .221 | 54.5 | 25.374 | 19.975 | 1.217 | 458 |
| 300 | 06 | 268 | 19.316 | 23.567 | 19.298- | 16.844 | 0.840- | 16.483 | .280 | 43.0 | 18.855 | 14.139 | 1.215 | 460 |
| 300 | 09 | 282 | 24.200 | 29.238 | 23.690- | 20.181 | 4.939 | 21.156 | .246 | 50.0 | 23.126 | 17.890 | 1.242 | 450 |
| 200 | 12 | 286 | 34.210 | 37.674 | 32.923- | 23.954 | 9.297 | 29.079 | .161 | 69.5 | 29.764 | 23.096 | 1.198 | 441 |
| 200 | 03 | 275 | 36.986 | 34.266 | 36.861- | 22.736 | 3.038 | 25.637 | .174 | 62.0 | 26.672 | 21.512 | 1.204 | 457 |
| 200 | 06 | 262 | 26.518 | 26.011 | 26.271- | 18.031 | 3.617- | 18.747 | .295 | 48.5 | 20.961 | 15.400 | 1.254 | 454 |
| 200 | 09 | 279 | 29.757 | 30.107 | 29.413- | 19.804 | 4.513 | 22.676 | .171 | 63.5 | 23.496 | 18.824 | 1.209 | 453 |

## Lisbon, Portugal

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 305 | 10.640 | 22.013 | 8.679- | 16.713 | 6.155 | 14.326 | .041 | 7.5 | 16.761 | 14.270 | 1.146 | 451 |
| 700 | 03 | 273 | 8.130 | 19.947 | 8.115- | 14.857 | 0.492 | 13.310 | .232 | 32.5 | 15.806 | 12.168 | 1.125 | 459 |
| 700 | 06 | 258 | 10.289 | 14.294 | 10.068- | 10.215 | 2.119- | 9.998 | .160 | 41.0 | 10.898 | 9.249 | 1.164 | 460 |
| 700 | 09 | 274 | 10.652 | 17.836 | 10.632- | 12.426 | 0.658 | 12.796 | .164 | 50.0 | 13.622 | 11.514 | 1.176 | 454 |
| 500 | 12 | 307 | 16.969 | 29.352 | 13.553- | 21.569 | 10.211 | 19.907 | .064 | 19.5 | 21.789 | 19.667 | 1.144 | 446 |
| 500 | 03 | 276 | 14.696 | 26.498 | 14.625- | 19.425 | 1.442 | 18.024 | .271 | 37.5 | 21.194 | 15.905 | 1.148 | 461 |
| 500 | 06 | 257 | 16.746 | 18.621 | 16.287- | 13.699 | 3.893- | 12.613 | .282 | 37.0 | 14.976 | 11.066 | 1.239 | 458 |
| 500 | 09 | 271 | 16.083 | 23.736 | 16.082- | 17.207 | 0.194 | 16.350 | .159 | 36.0 | 18.146 | 15.301 | 1.179 | 455 |
| 300 | 12 | 304 | 27.622 | 37.426 | 22.843- | 26.094 | 15.530 | 26.828 | .134 | 51.0 | 28.220 | 24.582 | 1.172 | 426 |
| 300 | 03 | 283 | 22.521 | 37.098 | 21.977- | 26.536 | 4.923 | 25.925 | .382 | 43.5 | 30.846 | 20.610 | 1.149 | 429 |
| 300 | 06 | 257 | 24.599 | 25.260 | 24.016- | 17.497 | 5.326- | 18.219 | .293 | 49.0 | 20.333 | 14.989 | 1.245 | 368 |
| 300 | 09 | 272 | 26.446 | 34.081 | 26.425- | 23.291 | 1.052 | 24.881 | .285 | 51.5 | 27.405 | 20.260 | 1.194 | 365 |
| 200 | 12 | 301 | 27.767 | 38.104 | 23.716- | 28.027 | 14.442 | 25.815 | .242 | 35.5 | 30.192 | 23.246 | 1.176 | 441 |
| 200 | 03 | 281 | 25.993 | 35.890 | 25.529- | 25.579 | 4.890 | 25.176 | .364 | 44.0 | 29.635 | 20.245 | 1.131 | 429 |
| 200 | 06 | 257 | 25.921 | 26.998 | 25.291- | 19.260 | 5.680- | 18.920 | .301 | 43.5 | 21.785 | 15.948 | 1.212 | 368 |
| 200 | 09 | 274 | 26.865 | 34.082 | 26.808- | 23.401 | 1.745 | 24.778 | .289 | 50.5 | 27.424 | 20.236 | 1.177 | 363 |

## Sal, Cape Verde Is., Portugal

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 051 | 6.060 | 15.646 | 4.706 | 12.688 | 3.819 | 9.154 | .271 | 19.5 | 13.120 | 8.523 | 1.174 | 273 |
| 850 | 03 | 004 | 6.748 | 15.856 | 0.504 | 12.320 | 6.729 | 9.982 | .232 | 24.0 | 12.822 | 9.329 | 1.191 | 242 |
| 850 | 06 | 080 | 11.619 | 16.012 | 11.444 | 12.346 | 2.011 | 10.197 | .125 | 16.5 | 12.537 | 9.961 | 1.235 | 178 |
| 850 | 09 | 092 | 8.434 | 13.823 | 8.429 | 10.788 | 0.299- | 8.642 | .119 | 14.0 | 10.914 | 8.482 | 1.215 | 281 |
| 700 | 12 | 245 | 6.107 | 17.001 | 5.543- | 13.252 | 2.564- | 10.650 | .203 | 21.5 | 13.666 | 10.113 | 1.172 | 173 |
| 700 | 03 | 228 | 9.549 | 17.401 | 7.105- | 13.587 | 6.381- | 10.871 | .164 | 18.0 | 13.875 | 10.501 | 1.171 | 139 |
| 700 | 06 | 098 | 18.775 | 17.977 | 18.599 | 14.934 | 2.569- | 10.007 | .014 | 1.0 | 14.935 | 10.006 | 1.318 | 69 |
| 700 | 09 | 128 | 8.594 | 16.465 | 6.739 | 13.586 | 5.335- | 9.301 | .295 | 18.5 | 14.046 | 8.592 | 1.183 | 204 |

## 14. Greece — Athens, Greece

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 280 | 8.048 | 24.006 | 7.934- | 17.181 | 1.350 | 16.766 | .177- | 139.0 | 18.444 | 15.366 | 1.460 | 542 |
| 850 | 03 | 317 | 6.159 | 17.597 | 4.213- | 11.846 | 4.493 | 13.013 | .382 | 52.0 | 14.686 | 9.695 | 1.216 | 552 |
| 850 | 06 | 008 | 13.203 | 14.911 | 1.937 | 10.725 | 13.061 | 10.359 | .658 | 43.5 | 13.579 | 6.161 | 1.319 | 552 |
| 850 | 09 | 334 | 6.205 | 18.009 | 2.684- | 11.431 | 5.595 | 13.916 | .518 | 55.5 | 15.826 | 8.594 | 1.190 | 546 |
| 700 | 12 | 269 | 14.552 | 22.034 | 14.551- | 14.374 | 0.180- | 16.701 | .256 | 60.0 | 17.726 | 13.089 | 1.197 | 542 |
| 700 | 03 | 285 | 13.880 | 24.312 | 13.384- | 19.931 | 3.675 | 13.923 | .104 | 8.0 | 20.033 | 13.776 | 1.483 | 552 |
| 700 | 06 | 329 | 11.171 | 15.958 | 5.712- | 12.108 | 9.600 | 10.395 | .313 | 32.0 | 13.084 | 9.136 | 1.197 | 552 |
| 700 | 09 | 283 | 10.331 | 20.045 | 10.083- | 13.665 | 2.248 | 14.666 | .404 | 50.0 | 16.824 | 10.898 | 1.210 | 546 |
| 500 | 12 | 272 | 22.622 | 29.638 | 22.601- | 20.109 | 0.976 | 21.772 | .223 | 55.0 | 23.305 | 18.311 | 1.240 | 541 |
| 500 | 03 | 284 | 23.879 | 26.576 | 23.177- | 18.893 | 5.748 | 18.691 | .230 | 43.5 | 20.846 | 16.485 | 1.275 | 552 |
| 500 | 06 | 296 | 19.689 | 21.421 | 17.669- | 16.741 | 8.686 | 13.365 | .163 | 18.0 | 17.092 | 12.912 | 1.324 | 552 |
| 500 | 09 | 274 | 18.436 | 26.357 | 18.400- | 18.074 | 1.152 | 19.183 | .308 | 50.5 | 21.359 | 15.443 | 1.281 | 546 |
| 300 | 12 | 276 | 35.854 | 41.701 | 35.686- | 28.606 | 3.470 | 30.343 | .197 | 53.5 | 32.379 | 26.280 | 1.206 | 541 |
| 300 | 03 | 279 | 36.094 | 36.680 | 35.627- | 26.742 | 5.786 | 25.105 | .158 | 34.0 | 28.054 | 23.630 | 1.265 | 552 |
| 300 | 06 | 276 | 33.527 | 31.327 | 33.316- | 22.426 | 3.756 | 21.874 | .259 | 42.5 | 24.884 | 19.031 | 1.355 | 552 |
| 300 | 09 | 270 | 27.610 | 34.308 | 27.610- | 24.651 | 0.029 | 23.862 | .188 | 40.0 | 26.462 | 21.836 | 1.227 | 546 |
| 200 | 12 | 272 | 44.875 | 40.661 | 44.842- | 29.307 | 1.709 | 28.186 | .259 | 40.5 | 32.318 | 24.676 | 1.252 | 542 |
| 200 | 03 | 275 | 45.323 | 35.225 | 45.175- | 24.798 | 3.651 | 25.017 | .201 | 46.5 | 27.289 | 22.274 | 1.344 | 552 |
| 200 | 06 | 261 | 47.201 | 32.568 | 46.569- | 22.653 | 7.697- | 23.398 | .229 | 49.0 | 25.565 | 20.176 | 1.462 | 552 |
| 200 | 09 | 266 | 36.691 | 34.387 | 36.595- | 23.494 | 2.653- | 25.110 | .213 | 53.5 | 26.877 | 21.450 | 1.265 | 546 |

## 15. North Africa — Aoulef, Algeria — Africa

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 329 | 3.532 | 15.476 | 1.832- | 12.582 | 3.020 | 9.012 | .431 | 26.0 | 13.491 | 7.583 | 1.163 | 187 |
| 850 | 03 | 301 | 3.285 | 17.232 | 2.825- | 13.662 | 1.677 | 10.501 | .323 | 25.5 | 14.444 | 9.397 | 1.174 | 260 |
| 850 | 06 | 084 | 9.857 | 16.210 | 9.809 | 13.893 | 0.964 | 8.353 | .069 | 3.5 | 13.912 | 8.321 | 1.235 | 224 |
| 850 | 09 | 059 | 3.030 | 14.407 | 2.588 | 11.448 | 1.575 | 8.747 | .316 | 24.5 | 12.065 | 7.874 | 1.152 | 200 |
| 700 | 12 | 284 | 14.103 | 21.315 | 13.693- | 16.533 | 3.378 | 13.453 | .360 | 30.0 | 17.880 | 11.603 | 1.265 | 173 |
| 700 | 03 | 279 | 13.462 | 22.213 | 13.292- | 16.995 | 2.131 | 14.303 | .378 | 32.5 | 18.658 | 12.054 | 1.239 | 243 |
| 700 | 06 | 081 | 5.399 | 16.066 | 5.337 | 12.511 | 0.819 | 10.080 | .341 | 29.0 | 13.423 | 8.828 | 1.221 | 215 |
| 700 | 09 | 276 | 7.618 | 20.378 | 7.569- | 12.881 | 0.859 | 15.791 | .184 | 69.0 | 16.239 | 12.311 | 1.437 | 198 |
| 500 | 12 | 271 | 36.783 | 29.694 | 36.778- | 24.363 | 0.632 | 16.976 | .225 | 15.5 | 24.897 | 16.182 | 1.420 | 146 |
| 500 | 03 | 265 | 31.482 | 24.234 | 31.369- | 17.867 | 2.663- | 16.372 | .274 | 36.0 | 19.448 | 14.458 | 1.434 | 174 |
| 500 | 06 | 097 | 3.151 | 17.149 | 3.125 | 13.476 | 0.405- | 10.606 | .219 | 21.0 | 13.917 | 10.020 | 1.148 | 170 |
| 500 | 09 | 267 | 14.236 | 16.859 | 14.210- | 13.352 | 0.861- | 10.293 | .252 | 22.0 | 13.866 | 9.589 | 1.322 | 159 |
| 300 | 12 | 268 | 65.964 | 46.414 | 65.905- | 36.733 | 2.789- | 28.372 | .250 | 22.0 | 38.140 | 26.451 | 1.551 | 105 |
| 300 | 03 | 266 | 54.640 | 35.765 | 54.489- | 29.638 | 4.067- | 20.017 | .234 | 15.0 | 30.266 | 19.055 | 1.841 | 122 |
| 300 | 06 | 261 | 8.795 | 17.343 | 8.695- | 13.727 | 1.327- | 10.599 | .134- | 166.5 | 13.898 | 10.374 | 1.357 | 109 |
| 300 | 09 | 274 | 27.982 | 26.815 | 27.907- | 22.285 | 2.057 | 14.914 | .422 | 23.0 | 23.578 | 12.772 | 1.450 | 127 |
| 200 | 12 | 264 | 72.652 | 50.637 | 72.238- | 38.308 | 7.747- | 33.116 | .399 | 35.0 | 42.689 | 27.237 | 1.561 | 65 |
| 200 | 03 | 262 | 70.948 | 38.242 | 70.223- | 28.448 | 10.120- | 25.558 | .365 | 37.0 | 31.758 | 21.305 | 1.642 | 70 |
| 200 | 06 | 255 | 14.032 | 23.595 | 13.561- | 18.560 | 3.607- | 14.568 | .301- | 154.5 | 19.580 | 13.166 | 1.402 | 71 |
| 200 | 09 | 277 | 40.983 | 37.244 | 40.717- | 32.781 | 4.659 | 17.677 | .215 | 9.0 | 33.088 | 17.096 | 1.705 | 84 |

## Cairo, Egypt

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 278 | 7.039 | 14.303 | 6.969- | 10.580 | 0.995 | 9.625 | .280 | 35.5 | 11.511 | 8.490 | 1.190 | 427 |
| 850 | 03 | 300 | 6.964 | 12.920 | 6.036- | 9.587 | 3.474 | 8.661 | .361 | 37.0 | 10.704 | 7.236 | 1.172 | 375 |
| 850 | 06 | 334 | 8.470 | 9.488 | 3.702- | 7.009 | 7.618 | 6.394 | .324 | 37.0 | 7.757 | 5.463 | 1.176 | 424 |
| 850 | 09 | 352 | 6.116 | 11.738 | 0.816- | 8.650 | 6.061 | 7.935 | .253 | 35.5 | 9.348 | 7.100 | 1.192 | 510 |
| 700 | 12 | 269 | 16.189 | 18.951 | 16.188- | 13.768 | 0.201- | 13.021 | .165 | 35.5 | 14.535 | 12.160 | 1.284 | 423 |
| 700 | 03 | 276 | 16.997 | 18.347 | 16.897- | 12.801 | 1.841 | 13.143 | .187 | 49.0 | 14.146 | 11.684 | 1.263 | 369 |
| 700 | 06 | 289 | 9.514 | 13.656 | 8.969- | 9.573 | 3.176 | 9.738 | .247 | 47.0 | 10.796 | 8.363 | 1.308 | 420 |
| 700 | 09 | 270 | 9.766 | 15.418 | 9.766- | 10.180 | 0.001- | 11.579 | .242 | 59.0 | 12.300 | 9.296 | 1.289 | 507 |
| 500 | 12 | 270 | 34.240 | 30.111 | 34.239- | 22.472 | 0.118 | 20.042 | .187 | 29.5 | 23.500 | 18.827 | 1.375 | 401 |
| 500 | 03 | 276 | 31.708 | 25.093 | 31.543- | 18.218 | 3.235 | 17.256 | .065 | 25.5 | 18.468 | 16.988 | 1.379 | 351 |
| 500 | 06 | 272 | 14.596 | 17.467 | 14.586- | 12.836 | 0.532 | 11.846 | .077 | 22.0 | 13.020 | 11.643 | 1.300 | 411 |
| 500 | 09 | 259 | 18.897 | 18.479 | 18.578- | 13.244 | 3.460- | 12.886 | .232 | 41.5 | 14.515 | 11.436 | 1.373 | 489 |
| 300 | 12 | 271 | 52.358 | 40.330 | 52.342- | 30.914 | 1.288 | 25.901 | .180 | 22.5 | 31.862 | 24.725 | 1.469 | 230 |
| 300 | 03 | 276 | 45.939 | 34.187 | 45.648- | 26.458 | 5.162 | 21.651 | .101 | 13.5 | 26.709 | 21.340 | 1.363 | 252 |
| 300 | 06 | 259 | 19.688 | 21.494 | 19.303- | 16.806 | 3.874- | 13.399 | .052 | 6.5 | 16.850 | 13.344 | 1.386 | 343 |
| 300 | 09 | 259 | 34.956 | 29.133 | 34.331- | 21.291 | 6.583- | 19.886 | .089 | 26.5 | 21.726 | 19.410 | 1.435 | 385 |
| 200 | 12 | 269 | 54.179 | 42.877 | 54.172- | 31.788 | 0.927- | 28.775 | .376 | 37.5 | 35.702 | 23.746 | 1.434 | 81 |
| 200 | 03 | 276 | 50.894 | 43.042 | 50.615- | 35.407 | 5.323 | 24.473 | .114 | 8.5 | 35.613 | 24.173 | 1.398 | 122 |
| 200 | 06 | 244 | 18.013 | 22.926 | 16.173- | 18.658 | 7.932- | 13.322 | .099- | 172.0 | 18.752 | 13.189 | 1.389 | 182 |
| 200 | 09 | 260 | 42.385 | 31.783 | 41.744- | 22.360 | 7.347- | 22.587 | .023- | 123.5 | 22.849 | 22.093 | 1.347 | 227 |

## Dakar, Senegal

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 061 | 6.576 | 11.264 | 5.740 | 8.822 | 3.210 | 7.004 | .173 | 18.5 | 9.020 | 6.747 | 1.276 | 544 |
| 850 | 03 | 028 | 8.276 | 12.356 | 3.829 | 8.445 | 7.337 | 9.020 | .244 | 52.5 | 9.780 | 7.551 | 1.277 | 497 |
| 850 | 06 | 105 | 1.991 | 13.088 | 1.927 | 9.252 | 0.504- | 9.257 | .059 | 45.5 | 9.542 | 8.958 | 1.141 | 594 |
| 850 | 09 | 087 | 7.825 | 10.775 | 7.815 | 7.735 | 0.397 | 7.500 | .131 | 38.5 | 8.115 | 7.088 | 1.227 | 526 |
| 700 | 12 | 234 | 4.742 | 12.933 | 3.815- | 9.931 | 2.817- | 8.285 | .160 | 20.5 | 10.180 | 7.976 | 1.170 | 501 |
| 700 | 03 | 149 | 4.688 | 12.811 | 2.430 | 10.705 | 4.010- | 7.036 | .354 | 19.5 | 11.141 | 6.324 | 1.160 | 454 |
| 700 | 06 | 093 | 16.310 | 14.605 | 16.295 | 11.453 | 0.721- | 9.063 | .008 | 1.0 | 11.454 | 9.063 | 1.314 | 533 |
| 700 | 09 | 107 | 13.062 | 13.265 | 12.490 | 10.318 | 3.822- | 8.336 | .108 | 13.5 | 10.427 | 8.199 | 1.290 | 475 |
| 500 | 12 | 255 | 16.775 | 15.593 | 16.181- | 11.911 | 4.423- | 10.063 | .176 | 23.0 | 12.284 | 9.605 | 1.350 | 433 |
| 500 | 03 | 248 | 6.643 | 14.798 | 6.150- | 12.590 | 2.511- | 7.776 | .225 | 12.0 | 12.778 | 7.464 | 1.168 | 360 |
| 500 | 06 | 093 | 16.735 | 13.491 | 16.716 | 10.390 | 0.796- | 8.605 | .150 | 19.5 | 10.616 | 8.324 | 1.328 | 422 |
| 500 | 09 | 117 | 5.202 | 14.269 | 4.635 | 12.165 | 2.362- | 7.457 | .005 | 0.5 | 12.165 | 7.457 | 1.158 | 364 |
| 300 | 12 | 260 | 41.960 | 23.994 | 41.344- | 15.562 | 7.165- | 18.262 | .147 | 68.5 | 18.709 | 15.022 | 1.299 | 393 |
| 300 | 03 | 262 | 29.581 | 21.615 | 29.261- | 16.608 | 4.336- | 13.833 | .136 | 18.5 | 16.924 | 13.445 | 1.408 | 328 |
| 300 | 06 | 102 | 11.836 | 12.191 | 11.587 | 9.348 | 2.415- | 7.826 | .091 | 13.5 | 9.430 | 7.727 | 1.254 | 374 |
| 300 | 09 | 262 | 6.163 | 20.744 | 6.098- | 17.694 | 0.890- | 10.827 | .064 | 3.5 | 17.715 | 10.793 | 1.207 | 326 |
| 200 | 12 | 265 | 52.743 | 28.654 | 52.566- | 20.009 | 4.308- | 20.511 | .033- | 116.5 | 20.667 | 19.848 | 1.389 | 357 |
| 200 | 03 | 261 | 37.697 | 22.993 | 37.234- | 17.159 | 5.891- | 15.305 | .061- | 166.0 | 17.283 | 15.165 | 1.428 | 296 |
| 200 | 06 | 108 | 15.630 | 16.289 | 14.837 | 12.835 | 4.915- | 10.029 | .107 | 11.5 | 12.941 | 9.892 | 1.284 | 342 |
| 200 | 09 | 268 | 10.869 | 26.887 | 10.862- | 22.342 | 0.396- | 14.957 | .166- | 169.0 | 22.585 | 14.587 | 1.273 | 300 |

## Khartoum, Sudan

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 021 | 11.231 | 9.952 | 4.092 | 7.609 | 10.458 | 6.415 | .350 | 32.0 | 8.281 | 5.520 | 1.336 | 189 |
| 850 | 03 | 029 | 12.179 | 12.358 | 5.935 | 8.141 | 10.634 | 9.298 | .302 | 57.0 | 10.072 | 7.162 | 1.235 | 194 |
| 850 | 06 | 231 | 8.023 | 13.040 | 6.244- | 8.722 | 5.037- | 9.693 | .266 | 56.0 | 10.453 | 7.795 | 1.153 | 223 |
| 850 | 09 | 039 | 5.794 | 11.733 | 3.662 | 8.661 | 4.490 | 7.915 | .298 | 36.5 | 9.498 | 6.889 | 1.143 | 255 |
| 700 | 12 | 269 | 7.733 | 13.022 | 7.732- | 9.594 | 0.109- | 8.805 | .494 | 40.0 | 11.279 | 6.508 | 1.125 | 190 |
| 700 | 03 | 325 | 4.020 | 13.249 | 2.279- | 10.634 | 3.311 | 7.903 | .172 | 15.0 | 10.815 | 7.653 | 1.186 | 193 |
| 700 | 06 | 057 | 10.247 | 11.539 | 8.587 | 8.161 | 5.591 | 8.158 | .175- | 135.0 | 8.846 | 7.408 | 1.220 | 223 |
| 700 | 09 | 083 | 5.808 | 13.893 | 5.761 | 11.226 | 0.734 | 8.185 | .581 | 30.5 | 12.554 | 5.950 | 1.135 | 255 |
| 500 | 12 | 266 | 9.203 | 16.327 | 9.180- | 12.239 | 0.637- | 10.807 | .200 | 29.0 | 12.824 | 10.105 | 1.172 | 190 |
| 500 | 03 | 282 | 3.398 | 17.234 | 3.325- | 13.722 | 0.702 | 10.427 | .261 | 21.5 | 14.250 | 9.693 | 1.200 | 190 |
| 500 | 06 | 089 | 14.942 | 11.805 | 14.939 | 9.487 | 0.290 | 7.026 | .029- | 177.0 | 9.492 | 7.018 | 1.495 | 219 |
| 500 | 09 | 099 | 7.356 | 13.568 | 7.262 | 11.934 | 1.173- | 6.455 | .168 | 7.0 | 12.005 | 6.323 | 1.217 | 253 |
| 300 | 12 | 274 | 29.838 | 23.206 | 29.765- | 16.263 | 2.089 | 16.554 | .007 | 79.0 | 16.542 | 16.275 | 1.316 | 183 |
| 300 | 03 | 280 | 21.317 | 22.732 | 21.002- | 18.500 | 3.649 | 13.210 | .052 | 4.5 | 18.528 | 13.170 | 1.225 | 179 |
| 300 | 06 | 082 | 17.728 | 12.940 | 17.574 | 10.221 | 2.327 | 7.935 | .076 | 8.5 | 10.268 | 7.875 | 1.353 | 215 |
| 300 | 09 | 275 | 1.703 | 19.866 | 1.696- | 17.472 | 0.149 | 9.454 | .069 | 3.0 | 17.490 | 9.421 | 1.159 | 246 |
| 200 | 12 | 264 | 38.525 | 25.918 | 38.309- | 19.434 | 4.070- | 17.149 | .054- | 168.5 | 19.530 | 17.039 | 1.405 | 177 |
| 200 | 03 | 272 | 27.498 | 24.781 | 27.480- | 21.306 | 0.988 | 12.655 | .090- | 175.5 | 21.352 | 12.577 | 1.374 | 169 |
| 200 | 06 | 092 | 32.299 | 19.466 | 32.269 | 16.924 | 1.393- | 9.618 | .109 | 5.0 | 16.972 | 9.533 | 1.407 | 211 |
| 200 | 09 | 269 | 5.090 | 28.474 | 5.088- | 25.932 | 0.120- | 11.760 | .195- | 173.5 | 26.058 | 11.479 | 1.149 | 240 |

## Lagos, Nigeria

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 054 | 6.917 | 7.959 | 5.563 | 5.812 | 4.111 | 5.438 | .022- | 170.5 | 5.829 | 5.420 | 1.138 | 284 |
| 850 | 03 | 091 | 7.083 | 10.182 | 7.082 | 7.734 | 0.143- | 6.622 | .187 | 25.0 | 8.019 | 6.274 | 1.199 | 306 |
| 850 | 06 | 247 | 2.255 | 10.248 | 2.076- | 7.557 | 0.881- | 6.922 | .146 | 29.5 | 7.833 | 6.608 | 1.170 | 189 |
| 850 | 09 | 077 | 6.758 | 12.044 | 6.581 | 10.093 | 1.533 | 6.573 | .197- | 168.0 | 10.230 | 6.357 | 1.316 | 273 |
| 700 | 12 | 081 | 15.851 | 9.583 | 15.648 | 7.072 | 2.525 | 6.467 | .066 | 18.0 | 7.135 | 6.397 | 1.404 | 299 |
| 700 | 03 | 075 | 21.634 | 10.996 | 20.876 | 8.052 | 5.677 | 7.489 | .144 | 31.5 | 8.381 | 7.119 | 1.369 | 298 |
| 700 | 06 | 085 | 8.098 | 13.550 | 8.067 | 11.518 | 0.704 | 7.136 | .193 | 10.5 | 11.649 | 6.920 | 1.270 | 186 |
| 700 | 09 | 090 | 15.654 | 12.816 | 15.654 | 11.065 | 0.074- | 6.466 | .225 | 11.0 | 11.205 | 6.220 | 1.277 | 292 |
| 500 | 12 | 090 | 10.422 | 12.708 | 10.422 | 9.812 | 0.011 | 8.076 | .059- | 171.5 | 9.853 | 8.026 | 1.193 | 294 |
| 500 | 03 | 088 | 10.649 | 11.898 | 10.643 | 9.567 | 0.341 | 7.074 | .063- | 174.0 | 9.589 | 7.043 | 1.287 | 272 |
| 500 | 06 | 080 | 6.138 | 10.192 | 6.043 | 7.652 | 1.072 | 6.732 | .033 | 7.0 | 7.666 | 6.717 | 1.214 | 178 |
| 500 | 09 | 088 | 7.706 | 10.589 | 7.700 | 8.053 | 0.293 | 6.876 | .050 | 8.5 | 8.085 | 6.838 | 1.214 | 299 |
| 300 | 12 | 235 | 5.138 | 20.782 | 4.208- | 15.937 | 2.949- | 13.338 | .087- | 167.0 | 16.076 | 13.170 | 1.144 | 272 |
| 300 | 03 | 094 | 3.939 | 13.846 | 3.931 | 10.047 | 0.249- | 9.526 | .031 | 15.5 | 10.093 | 9.478 | 1.134 | 241 |
| 300 | 06 | 091 | 21.902 | 13.361 | 21.901 | 11.348 | 0.255- | 7.053 | .025- | 178.5 | 11.351 | 7.047 | 1.611 | 172 |
| 300 | 09 | 104 | 9.212 | 16.501 | 8.937 | 12.119 | 2.234- | 11.199 | .343 | 38.5 | 13.564 | 9.397 | 1.213 | 290 |
| 200 | 12 | 231 | 11.557 | 22.602 | 8.971- | 17.334 | 7.285- | 14.504 | .123- | 162.5 | 17.607 | 14.172 | 1.185 | 258 |
| 200 | 03 | 135 | 7.229 | 17.013 | 5.074 | 12.734 | 5.149- | 11.281 | .068- | 165.0 | 12.844 | 11.157 | 1.156 | 226 |
| 200 | 06 | 086 | 34.345 | 22.711 | 34.263 | 18.901 | 2.364 | 12.592 | .030- | 178.0 | 18.908 | 12.581 | 1.585 | 169 |
| 200 | 09 | 115 | 10.912 | 22.947 | 9.919 | 18.401 | 4.547- | 13.710 | .279 | 21.5 | 19.141 | 12.655 | 1.173 | 281 |

## Nairobi, British East Africa

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 040 | 10.535 | 6.668 | 6.722 | 4.327 | 8.112 | 5.074 | .586 | 52.5 | 5.966 | 2.978 | 1.446 | 30 |
| 850 | 03 | NO | OBS. | | | | | | | | | | | |
| 850 | 06 | 140 | 1.735 | 3.964 | 1.119 | 2.815 | 1.327- | 2.791 | .312- | 136.0 | 3.210 | 2.326 | 1.972 | 58 |
| 850 | 09 | 065 | 5.756 | 6.118 | 5.235 | 3.883 | 2.393 | 4.729 | .442 | 57.0 | 5.254 | 3.136 | 1.379 | 90 |
| 700 | 12 | 043 | 12.743 | 9.411 | 8.761 | 7.434 | 9.253 | 5.771 | .275 | 23.5 | 7.774 | 5.305 | 1.445 | 440 |
| 700 | 03 | 065 | 10.308 | 13.642 | 9.377 | 8.486 | 4.279 | 10.682 | .555 | 56.5 | 12.151 | 6.201 | 1.587 | 404 |
| 700 | 06 | 222 | 0.649 | 12.658 | 0.433- | 7.898 | 0.483- | 9.891 | .018 | 87.5 | 9.892 | 7.897 | 1.375 | 471 |
| 700 | 09 | 079 | 8.062 | 10.562 | 7.904 | 7.045 | 1.592 | 7.869 | .251 | 57.0 | 8.433 | 6.360 | 1.350 | 466 |
| 500 | 12 | 084 | 12.896 | 11.392 | 12.819 | 8.242 | 1.412 | 7.865 | .209 | 38.5 | 8.877 | 7.140 | 1.445 | 376 |
| 500 | 03 | 083 | 10.880 | 9.762 | 10.789 | 7.875 | 1.402 | 5.768 | .100 | 9.0 | 7.920 | 5.707 | 1.387 | 306 |
| 500 | 06 | 054 | 4.445 | 14.009 | 3.610 | 10.873 | 2.594 | 8.834 | .257- | 154.5 | 11.406 | 8.134 | 1.233 | 392 |
| 500 | 09 | 081 | 10.736 | 11.110 | 10.615 | 8.167 | 1.608 | 7.532 | .132 | 29.0 | 8.438 | 7.228 | 1.434 | 415 |
| 300 | 12 | 088 | 14.421 | 15.701 | 14.413 | 12.335 | 0.484 | 9.714 | .037- | 175.5 | 12.345 | 9.702 | 1.192 | 332 |
| 300 | 03 | 091 | 8.749 | 12.541 | 8.748 | 9.793 | 0.169- | 7.834 | .098- | 168.0 | 9.877 | 7.729 | 1.227 | 269 |
| 300 | 06 | 123 | 4.096 | 16.274 | 3.442 | 12.760 | 2.222- | 10.101 | .002 | 0.0 | 12.758 | 10.102 | 1.158 | 378 |
| 300 | 09 | 097 | 3.375 | 14.303 | 3.352 | 11.090 | 0.394- | 9.033 | .065- | 171.5 | 11.133 | 8.981 | 1.147 | 388 |
| 200 | 12 | 111 | 16.843 | 23.282 | 15.752 | 18.913 | 5.966- | 13.577 | .293- | 159.5 | 19.643 | 12.498 | 1.258 | 320 |
| 200 | 03 | 103 | 3.953 | 19.088 | 3.853 | 16.153 | 0.885- | 10.170 | .198- | 169.0 | 16.351 | 9.849 | 1.161 | 265 |
| 200 | 06 | 084 | 11.832 | 22.989 | 11.776 | 18.996 | 1.143 | 12.948 | .327 | 20.0 | 19.754 | 11.760 | 1.242 | 362 |
| 200 | 09 | 247 | 4.433 | 18.947 | 4.090- | 15.505 | 1.710- | 10.891 | .082 | 6.5 | 15.556 | 10.817 | 1.161 | 384 |

## Niamey, French Niger

| P | J | $\bar{\theta}$ | $\|\bar{V}\|$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 067 | 7.075 | 10.902 | 6.526 | 9.254 | 2.731 | 5.763 | .175 | 10.0 | 9.341 | 5.620 | 1.229 | 72 |
| 850 | 03 | 050 | 3.870 | 11.025 | 2.977 | 8.562 | 2.472 | 6.947 | .104 | 13.0 | 8.645 | 6.842 | 1.163 | 63 |
| 850 | 06 | 198 | 1.349 | 10.489 | 0.424- | 7.525 | 1.281- | 7.306 | .069- | 146.5 | 7.699 | 7.123 | 1.144 | 110 |
| 850 | 09 | 094 | 7.740 | 9.380 | 7.723 | 7.243 | 0.519- | 5.960 | .034 | 5.0 | 7.252 | 5.950 | 1.275 | 130 |
| 700 | 12 | 159 | 0.834 | 12.123 | 0.294 | 9.591 | 0.780- | 7.415 | .196 | 18.5 | 9.834 | 7.090 | 1.121 | 70 |
| 700 | 03 | 084 | 10.888 | 10.666 | 10.833 | 8.496 | 1.099 | 6.448 | .280 | 22.5 | 8.861 | 5.936 | 1.332 | 62 |
| 700 | 06 | 087 | 18.506 | 13.036 | 18.481 | 9.871 | 0.954 | 8.515 | .070- | 167.5 | 9.939 | 8.436 | 1.313 | 111 |
| 700 | 09 | 088 | 16.071 | 13.787 | 16.064 | 11.255 | 0.469 | 7.963 | .037- | 177.0 | 11.260 | 7.955 | 1.517 | 130 |
| 500 | 12 | 259 | 8.108 | 14.261 | 7.947- | 9.481 | 1.607- | 10.654 | .006 | 88.5 | 10.650 | 9.484 | 1.223 | 70 |
| 500 | 03 | 106 | 5.668 | 14.667 | 5.441 | 12.927 | 1.586- | 6.930 | .192- | 172.0 | 13.021 | 6.751 | 1.189 | 61 |
| 500 | 06 | 090 | 18.151 | 12.827 | 18.151 | 10.553 | 0.137 | 7.293 | .068- | 175.0 | 10.576 | 7.259 | 1.387 | 108 |
| 500 | 09 | 089 | 8.372 | 12.661 | 8.371 | 10.406 | 0.143 | 7.213 | .011 | 1.0 | 10.406 | 7.213 | 1.181 | 130 |
| 300 | 12 | 262 | 32.730 | 19.428 | 32.448- | 12.745 | 4.281- | 14.663 | .174- | 115.5 | 15.193 | 12.108 | 1.308 | 70 |
| 300 | 03 | 273 | 11.794 | 21.094 | 11.783- | 18.387 | 0.522 | 10.339 | .079- | 176.5 | 18.412 | 10.294 | 1.222 | 56 |
| 300 | 06 | 088 | 17.449 | 14.911 | 17.442 | 11.836 | 0.510 | 9.070 | .210 | 19.0 | 12.158 | 8.634 | 1.411 | 105 |
| 300 | 09 | 254 | 1.782 | 20.857 | 1.710- | 17.693 | 0.500- | 11.043 | .262 | 14.0 | 18.054 | 10.442 | 1.173 | 122 |
| 200 | 12 | 262 | 41.055 | 23.948 | 40.676- | 17.037 | 5.566- | 16.830 | .318- | 136.0 | 19.452 | 13.968 | 1.362 | 71 |
| 200 | 03 | 243 | 18.152 | 19.525 | 16.239- | 15.853 | 8.113- | 11.397 | .304 | 21.0 | 16.511 | 10.422 | 1.329 | 51 |
| 200 | 06 | 092 | 24.007 | 19.153 | 23.995 | 15.566 | 0.753- | 11.159 | .295- | 159.5 | 16.176 | 10.255 | 1.351 | 98 |
| 200 | 09 | 246 | 8.690 | 25.888 | 7.949- | 22.095 | 3.510- | 13.491 | .212 | 11.5 | 22.377 | 13.018 | 1.219 | 119 |

## Port Lyautey, Morocco

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 271 | 4.868 | 13.917 | 4.866- | 11.253 | 0.119 | 8.188 | .299 | 21.5 | 11.721 | 7.503 | 1.243 | 329 |
| 850 | 03 | 248 | 6.233 | 13.523 | 5.761- | 10.669 | 2.381- | 8.309 | .460 | 30.5 | 11.751 | 6.692 | 1.297 | 402 |
| 850 | 06 | 269 | 3.807 | 10.193 | 3.807- | 7.138 | 0.040- | 7.277 | .350 | 46.5 | 8.378 | 5.806 | 1.213 | 414 |
| 850 | 09 | 281 | 5.308 | 14.602 | 5.209- | 11.043 | 1.025 | 9.553 | .199 | 27.0 | 11.520 | 8.973 | 1.241 | 397 |
| 700 | 12 | 297 | 9.968 | 18.391 | 8.877- | 13.235 | 4.533 | 12.770 | .095 | 34.5 | 13.645 | 12.331 | 1.201 | 451 |
| 700 | 03 | 254 | 10.932 | 17.029 | 10.505- | 12.457 | 3.025- | 11.611 | .393 | 40.0 | 14.243 | 9.335 | 1.225 | 460 |
| 700 | 06 | 237 | 14.430 | 12.896 | 12.076- | 9.681 | 7.900- | 8.520 | .301 | 33.5 | 10.496 | 7.492 | 1.405 | 454 |
| 700 | 09 | 260 | 9.731 | 17.191 | 9.574- | 12.972 | 1.741- | 11.280 | .331 | 33.5 | 14.158 | 9.750 | 1.211 | 454 |
| 500 | 12 | 297 | 17.731 | 25.857 | 15.738- | 18.310 | 8.167 | 18.257 | .144 | 44.5 | 19.566 | 16.904 | 1.181 | 448 |
| 500 | 03 | 267 | 18.921 | 22.503 | 18.257- | 15.424 | 1.115- | 16.385 | .336 | 50.0 | 18.436 | 12.903 | 1.220 | 460 |
| 500 | 06 | 246 | 18.024 | 15.515 | 16.453- | 11.240 | 7.358- | 10.695 | .360 | 41.0 | 12.811 | 8.752 | 1.334 | 458 |
| 500 | 09 | 268 | 14.223 | 22.220 | 14.211- | 15.919 | 0.581- | 15.502 | .268 | 42.0 | 17.702 | 13.429 | 1.237 | 455 |
| 300 | 12 | 294 | 29.910 | 36.633 | 27.311- | 25.622 | 12.195 | 26.182 | .134 | 49.5 | 27.606 | 24.081 | 1.173 | 423 |
| 300 | 03 | 270 | 30.970 | 30.844 | 30.969- | 21.294 | 0.265 | 22.314 | .230 | 50.5 | 24.235 | 19.079 | 1.237 | 429 |
| 300 | 06 | 252 | 25.204 | 21.324 | 24.017- | 15.101 | 7.642- | 15.056 | .418 | 45.0 | 17.957 | 11.500 | 1.327 | 368 |
| 300 | 09 | 266 | 25.419 | 31.524 | 25.362- | 22.057 | 1.710- | 22.522 | .305 | 47.0 | 25.486 | 18.553 | 1.256 | 365 |
| 200 | 12 | 292 | 32.470 | 36.467 | 30.209- | 25.875 | 11.903 | 25.697 | .265 | 44.5 | 28.998 | 22.112 | 1.216 | 441 |
| 200 | 03 | 271 | 34.280 | 32.948 | 34.270- | 21.892 | 0.829 | 24.623 | .255 | 57.5 | 26.365 | 19.759 | 1.184 | 429 |
| 200 | 06 | 254 | 26.649 | 23.477 | 25.608- | 17.439 | 7.378- | 15.718 | .369 | 37.0 | 19.519 | 13.046 | 1.307 | 367 |
| 200 | 09 | 268 | 27.894 | 30.491 | 27.869- | 20.916 | 1.184- | 22.185 | .332 | 50.0 | 24.924 | 17.564 | 1.199 | 364 |

## 16. U.S.S.R. — Ashkhabad, U.S.S.R — Asia

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 260 | 7.079 | 12.184 | 6.976- | 9.668 | 1.199- | 7.415 | .132- | 167.0 | 9.784 | 7.261 | 1.212 | 542 |
| 850 | 03 | 251 | 4.236 | 12.539 | 3.993- | 10.010 | 1.414- | 7.552 | .307- | 156.5 | 10.506 | 6.845 | 1.196 | 552 |
| 850 | 06 | 006 | 1.525 | 12.638 | 0.149 | 9.834 | 1.517 | 7.937 | .428- | 148.5 | 10.832 | 6.509 | 1.172 | 552 |
| 850 | 09 | 269 | 2.548 | 11.604 | 2.548- | 9.678 | 0.027- | 6.401 | .329- | 161.0 | 10.031 | 5.833 | 1.181 | 546 |
| 700 | 12 | 265 | 14.253 | 13.988 | 14.192- | 10.513 | 1.311- | 9.228 | .105 | 19.5 | 10.680 | 9.033 | 1.275 | 542 |
| 700 | 03 | 259 | 10.186 | 15.775 | 10.003- | 12.710 | 1.922- | 9.344 | .030 | 3.0 | 12.718 | 9.333 | 1.199 | 552 |
| 700 | 06 | 354 | 4.557 | 14.787 | 0.468- | 11.063 | 4.533 | 9.811 | .056 | 12.5 | 11.123 | 9.744 | 1.126 | 552 |
| 700 | 09 | 281 | 9.015 | 13.968 | 8.848- | 11.141 | 1.732 | 8.425 | .239 | 20.0 | 11.502 | 7.925 | 1.195 | 546 |
| 500 | 12 | 267 | 23.556 | 20.664 | 23.528- | 14.592 | 1.140- | 14.632 | .230 | 45.5 | 16.207 | 12.820 | 1.250 | 542 |
| 500 | 03 | 260 | 20.856 | 20.974 | 20.565- | 15.562 | 3.470- | 14.062 | .171 | 29.5 | 16.245 | 13.267 | 1.254 | 552 |
| 500 | 06 | 299 | 14.236 | 18.680 | 12.475- | 14.706 | 6.857 | 11.518 | .134 | 14.5 | 14.901 | 11.264 | 1.222 | 552 |
| 500 | 09 | 277 | 17.633 | 17.770 | 17.489- | 13.718 | 2.246 | 11.296 | .247 | 26.0 | 14.385 | 10.433 | 1.240 | 546 |
| 300 | 12 | 269 | 36.574 | 27.198 | 36.570- | 18.602 | 0.595- | 19.842 | .221 | 53.0 | 21.329 | 16.876 | 1.286 | 542 |
| 300 | 03 | 258 | 32.531 | 28.565 | 31.848- | 20.885 | 6.635- | 19.488 | .181 | 34.5 | 22.071 | 18.134 | 1.353 | 552 |
| 300 | 06 | 279 | 30.542 | 25.845 | 30.144- | 20.154 | 4.914 | 16.180 | .059 | 7.5 | 20.225 | 16.091 | 1.385 | 552 |
| 300 | 09 | 276 | 31.922 | 26.408 | 31.765- | 20.494 | 3.156 | 16.655 | .248 | 25.0 | 21.439 | 15.420 | 1.332 | 546 |
| 200 | 12 | 267 | 49.644 | 31.002 | 49.591- | 20.481 | 2.301- | 23.274 | .177 | 63.0 | 24.173 | 19.411 | 1.285 | 542 |
| 200 | 03 | 256 | 40.503 | 29.155 | 39.317- | 21.098 | 9.728- | 20.122 | .000- | 0.0 | 21.099 | 20.121 | 1.357 | 552 |
| 200 | 06 | 275 | 34.315 | 27.107 | 34.190- | 19.642 | 2.933 | 18.681 | .044 | 20.5 | 19.797 | 18.516 | 1.338 | 552 |
| 200 | 09 | 273 | 38.549 | 27.024 | 38.490- | 19.009 | 2.133 | 19.207 | .201 | 46.5 | 20.936 | 17.087 | 1.294 | 546 |

## Irkutsk, U.S.S.R.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 308 | 11.568 | 14.913 | 9.073- | 8.941 | 7.176 | 11.936 | .296- | 112.5 | 12.477 | 8.168 | 1.287 | 542 |
| 850 | 03 | 310 | 8.878 | 14.021 | 6.820- | 8.234 | 5.683 | 11.348 | .344- | 113.5 | 11.944 | 7.343 | 1.256 | 552 |
| 850 | 06 | 294 | 4.086 | 13.111 | 3.747- | 8.255 | 1.630 | 10.186 | .358- | 119.5 | 11.000 | 7.134 | 1.183 | 552 |
| 850 | 09 | 298 | 8.437 | 14.115 | 7.478- | 8.586 | 3.907 | 11.203 | .266- | 112.5 | 11.664 | 7.949 | 1.200 | 546 |
| 700 | 12 | 309 | 17.414 | 18.076 | 13.547- | 11.910 | 10.942 | 13.597 | .109- | 110.0 | 13.831 | 11.638 | 1.285 | 542 |
| 700 | 03 | 307 | 15.915 | 16.079 | 12.765- | 10.508 | 9.505 | 12.169 | .194- | 116.5 | 12.670 | 9.899 | 1.275 | 552 |
| 700 | 06 | 296 | 8.138 | 15.197 | 7.312- | 10.006 | 3.571 | 11.437 | .013 | 87.0 | 11.439 | 10.004 | 1.200 | 551 |
| 700 | 09 | 303 | 14.718 | 15.121 | 12.358- | 10.531 | 7.992 | 10.851 | .035- | 114.5 | 10.922 | 10.457 | 1.266 | 546 |
| 500 | 12 | 309 | 23.656 | 25.388 | 18.438- | 18.242 | 14.820 | 17.656 | .011- | 170.0 | 18.251 | 17.647 | 1.237 | 542 |
| 500 | 03 | 304 | 24.016 | 23.401 | 19.962- | 16.237 | 13.853 | 16.851 | .008 | 83.0 | 16.852 | 16.236 | 1.232 | 552 |
| 500 | 06 | 285 | 12.642 | 19.190 | 12.221- | 13.744 | 3.237 | 13.393 | .052 | 32.0 | 13.972 | 13.155 | 1.203 | 552 |
| 500 | 09 | 296 | 21.060 | 22.381 | 18.923- | 15.624 | 9.243 | 16.025 | .023- | 111.0 | 16.145 | 15.500 | 1.265 | 546 |
| 300 | 12 | 307 | 31.472 | 30.720 | 24.976- | 22.076 | 19.149 | 21.363 | .107 | 36.5 | 22.884 | 20.495 | 1.197 | 542 |
| 300 | 03 | 299 | 31.816 | 30.568 | 27.956- | 21.679 | 15.190 | 21.550 | .096 | 43.0 | 22.623 | 20.558 | 1.233 | 552 |
| 300 | 06 | 277 | 17.821 | 24.877 | 17.704- | 17.617 | 2.042 | 17.565 | .110 | 44.5 | 18.528 | 16.601 | 1.176 | 552 |
| 300 | 09 | 294 | 27.928 | 29.439 | 25.511- | 19.929 | 11.365 | 21.667 | .039 | 77.0 | 21.781 | 19.805 | 1.238 | 546 |
| 200 | 12 | 304 | 39.089 | 32.096 | 32.581- | 23.562 | 21.597 | 21.795 | .132 | 29.5 | 24.353 | 20.907 | 1.241 | 542 |
| 200 | 03 | 294 | 36.099 | 29.567 | 32.991- | 22.191 | 14.655 | 19.539 | .075 | 15.5 | 22.400 | 19.298 | 1.298 | 552 |
| 200 | 06 | 272 | 23.861 | 25.671 | 23.845- | 18.450 | 0.870 | 17.849 | .090 | 35.0 | 18.998 | 17.264 | 1.216 | 552 |
| 200 | 09 | 288 | 33.543 | 28.570 | 31.861- | 21.162 | 10.490 | 19.194 | .105 | 23.5 | 21.596 | 18.705 | 1.325 | 546 |

## Kharkov, U.S.S.R.

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 246 | 6.752 | 20.702 | 6.162- | 15.340 | 2.760- | 13.902 | .192- | 148.5 | 16.137 | 12.969 | 1.121 | 542 |
| 850 | 03 | 240 | 4.425 | 19.960 | 3.841- | 14.369 | 2.198- | 13.854 | .057- | 151.0 | 14.576 | 13.637 | 1.119 | 551 |
| 850 | 06 | 297 | 2.303 | 16.209 | 2.052- | 12.449 | 1.046 | 10.381 | .123- | 163.0 | 12.640 | 10.147 | 1.116 | 552 |
| 850 | 09 | 264 | 6.877 | 19.441 | 6.836- | 13.569 | 0.749- | 13.922 | .088- | 127.0 | 14.372 | 13.091 | 1.133 | 546 |
| 700 | 12 | 261 | 12.581 | 23.349 | 12.436- | 17.660 | 1.904- | 15.275 | .128- | 159.5 | 18.016 | 14.853 | 1.167 | 542 |
| 700 | 03 | 251 | 8.483 | 23.141 | 8.033- | 17.270 | 2.727- | 15.403 | .087- | 161.0 | 17.506 | 15.135 | 1.160 | 551 |
| 700 | 06 | 273 | 5.132 | 19.094 | 5.126- | 14.486 | 0.246 | 12.439 | .206- | 153.0 | 15.125 | 11.655 | 1.161 | 552 |
| 700 | 09 | 274 | 12.283 | 21.864 | 12.254- | 15.736 | 0.842 | 15.179 | .033 | 21.5 | 15.823 | 15.088 | 1.165 | 546 |
| 500 | 12 | 271 | 18.103 | 31.650 | 18.102- | 23.188 | 0.192 | 21.541 | .005 | 2.0 | 23.189 | 21.540 | 1.184 | 542 |
| 500 | 03 | 257 | 13.787 | 29.736 | 13.439- | 22.410 | 3.078- | 19.544 | .048- | 170.5 | 22.482 | 19.462 | 1.159 | 551 |
| 500 | 06 | 266 | 9.090 | 22.978 | 9.068- | 17.511 | 0.631- | 14.878 | .099- | 164.5 | 17.720 | 14.629 | 1.176 | 552 |
| 500 | 09 | 278 | 17.736 | 28.060 | 17.566- | 20.457 | 2.448 | 19.206 | .127 | 32.0 | 21.196 | 18.388 | 1.193 | 546 |
| 300 | 12 | 273 | 22.889 | 36.021 | 22.865- | 26.413 | 1.040 | 24.493 | .035 | 12.5 | 26.486 | 24.413 | 1.163 | 542 |
| 300 | 03 | 260 | 18.929 | 35.170 | 18.641- | 25.529 | 3.289- | 24.190 | .038 | 18.0 | 25.728 | 23.979 | 1.174 | 551 |
| 300 | 06 | 263 | 13.747 | 29.238 | 13.650- | 21.915 | 1.635- | 19.354 | .036- | 171.5 | 21.956 | 19.309 | 1.195 | 552 |
| 300 | 09 | 278 | 23.917 | 34.322 | 23.688- | 24.475 | 3.304 | 24.062 | .227 | 43.0 | 26.902 | 21.315 | 1.178 | 546 |
| 200 | 12 | 276 | 21.944 | 33.615 | 21.809- | 23.739 | 2.430 | 23.799 | .019 | 49.0 | 23.819 | 23.719 | 1.188 | 541 |
| 200 | 03 | 259 | 18.129 | 33.471 | 17.818- | 24.359 | 3.347- | 22.956 | .003 | 1.5 | 24.359 | 22.956 | 1.188 | 551 |
| 200 | 06 | 255 | 19.003 | 30.874 | 18.375- | 22.268 | 4.844- | 21.386 | .007 | 5.0 | 22.269 | 21.385 | 1.205 | 552 |
| 200 | 09 | 277 | 24.864 | 35.449 | 24.670- | 25.556 | 3.104 | 24.567 | .210 | 39.5 | 27.611 | 22.232 | 1.197 | 546 |

## Petropavlovsk (Nakamchatke), U.S.S.R.

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 333 | 2.246 | 21.123 | 1.032- | 16.958 | 1.994 | 12.593 | .123- | 169.0 | 17.108 | 12.389 | 1.161 | 542 |
| 850 | 03 | 296 | 2.969 | 19.627 | 2.664- | 15.255 | 1.309 | 12.348 | .152- | 162.0 | 15.553 | 11.972 | 1.225 | 552 |
| 850 | 06 | 315 | 3.009 | 14.919 | 2.140- | 11.439 | 2.115 | 9.578 | .126- | 162.5 | 11.630 | 9.345 | 1.202 | 552 |
| 850 | 09 | 289 | 7.778 | 18.958 | 7.346- | 14.800 | 2.556 | 11.848 | .186- | 160.0 | 15.196 | 11.335 | 1.170 | 546 |
| 700 | 12 | 212 | 3.006 | 27.270 | 1.582- | 21.098 | 2.556- | 17.278 | .123- | 164.5 | 21.393 | 16.911 | 1.157 | 542 |
| 700 | 03 | 281 | 5.481 | 25.316 | 5.386- | 18.503 | 1.016 | 17.278 | .019 | 8.0 | 18.506 | 17.276 | 1.191 | 552 |
| 700 | 06 | 305 | 4.420 | 19.713 | 3.627- | 14.141 | 2.527 | 13.734 | .051- | 149.5 | 14.367 | 13.498 | 1.161 | 552 |
| 700 | 09 | 279 | 11.955 | 25.995 | 11.820- | 19.442 | 1.792 | 17.256 | .209- | 150.0 | 20.465 | 16.029 | 1.194 | 546 |
| 500 | 12 | 197 | 10.981 | 34.932 | 3.230- | 24.994 | 10.496- | 24.404 | .024- | 157.5 | 25.190 | 24.202 | 1.207 | 542 |
| 500 | 03 | 262 | 12.260 | 31.941 | 12.143- | 21.611 | 1.690- | 23.520 | .007 | 87.5 | 23.521 | 21.610 | 1.162 | 552 |
| 500 | 06 | 291 | 9.474 | 25.927 | 8.834- | 18.694 | 3.422 | 17.965 | .067 | 30.0 | 19.063 | 17.573 | 1.149 | 552 |
| 500 | 09 | 268 | 18.389 | 32.264 | 18.371- | 23.313 | 0.800- | 22.304 | .003- | 178.0 | 23.310 | 22.307 | 1.204 | 546 |
| 300 | 12 | 209 | 18.946 | 38.645 | 9.110- | 27.727 | 16.612- | 26.920 | .040- | 153.0 | 28.041 | 26.592 | 1.224 | 542 |
| 300 | 03 | 258 | 17.936 | 37.665 | 17.553- | 25.925 | 3.690- | 27.323 | .059 | 66.0 | 27.623 | 25.605 | 1.164 | 552 |
| 300 | 06 | 297 | 16.040 | 35.433 | 14.252- | 25.676 | 7.359 | 24.418 | .159 | 36.0 | 27.051 | 22.885 | 1.169 | 552 |
| 300 | 09 | 265 | 28.379 | 42.588 | 28.273- | 31.010 | 2.442- | 29.192 | .038 | 16.0 | 31.120 | 29.074 | 1.249 | 546 |
| 200 | 12 | 220 | 20.751 | 34.240 | 13.315- | 23.818 | 15.916- | 24.598 | .020- | 106.0 | 24.599 | 23.817 | 1.224 | 542 |
| 200 | 03 | 257 | 19.499 | 34.522 | 19.000- | 24.094 | 4.385- | 24.724 | .155 | 49.5 | 26.257 | 22.413 | 1.186 | 552 |
| 200 | 06 | 300 | 18.703 | 34.244 | 16.178- | 25.489 | 9.385 | 22.868 | .125 | 24.5 | 26.145 | 22.115 | 1.189 | 552 |
| 200 | 09 | 269 | 32.729 | 38.201 | 32.717- | 27.205 | 0.885- | 26.817 | .023 | 29.5 | 27.486 | 26.530 | 1.269 | 546 |

## Saratov, U.S.S.R.

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 240 | 5.709 | 21.348 | 4.950- | 15.465 | 2.844- | 14.716 | .092- | 149.0 | 15.881 | 14.266 | 1.130 | 542 |
| 850 | 03 | 233 | 4.251 | 21.016 | 3.404- | 14.327 | 2.545- | 15.376 | .041 | 74.5 | 15.465 | 14.231 | 1.186 | 552 |
| 850 | 06 | 263 | 2.805 | 18.296 | 2.783- | 13.503 | 0.348- | 12.345 | .036- | 169.0 | 13.538 | 12.307 | 1.196 | 552 |
| 850 | 09 | 260 | 7.669 | 21.146 | 7.550- | 14.814 | 1.346- | 15.090 | .031- | 120.0 | 15.225 | 14.676 | 1.162 | 546 |
| 700 | 12 | 254 | 8.851 | 22.609 | 8.517- | 16.654 | 2.408- | 15.291 | .126- | 152.0 | 17.158 | 14.723 | 1.133 | 542 |
| 700 | 03 | 250 | 6.719 | 21.680 | 6.318- | 15.265 | 2.288- | 15.394 | .012- | 118.5 | 15.415 | 15.244 | 1.148 | 552 |
| 700 | 06 | 266 | 6.723 | 19.047 | 6.706- | 13.181 | 0.478- | 13.750 | .022- | 104.5 | 13.817 | 13.110 | 1.138 | 552 |
| 700 | 09 | 271 | 10.997 | 21.382 | 10.995- | 15.058 | 0.236 | 15.180 | .082- | 132.0 | 15.741 | 14.470 | 1.145 | 546 |
| 500 | 12 | 266 | 13.241 | 27.774 | 13.214- | 19.875 | 0.860- | 19.400 | .044 | 31.0 | 20.132 | 19.133 | 1.180 | 542 |
| 500 | 03 | 256 | 10.980 | 26.699 | 10.630- | 19.245 | 2.747- | 18.506 | .008- | 174.0 | 19.247 | 18.504 | 1.169 | 552 |
| 500 | 06 | 270 | 9.866 | 23.365 | 9.866- | 16.886 | 0.027- | 16.150 | .009 | 6.5 | 16.896 | 16.149 | 1.189 | 552 |
| 500 | 09 | 273 | 15.985 | 27.000 | 15.967- | 19.267 | 0.757 | 18.915 | .051 | 35.0 | 19.634 | 18.534 | 1.199 | 546 |
| 300 | 12 | 273 | 18.360 | 33.724 | 18.336- | 24.092 | 0.944 | 23.598 | .039 | 31.5 | 24.425 | 23.253 | 1.173 | 542 |
| 300 | 03 | 255 | 14.244 | 31.683 | 13.775- | 21.716 | 3.623- | 23.070 | .020- | 99.0 | 23.073 | 21.713 | 1.150 | 552 |
| 300 | 06 | 269 | 14.123 | 29.403 | 14.120- | 21.028 | 0.312- | 20.552 | .071 | 36.0 | 21.550 | 20.004 | 1.200 | 552 |
| 300 | 09 | 275 | 21.477 | 31.171 | 21.381- | 22.587 | 2.033 | 21.481 | .120 | 33.5 | 23.416 | 20.575 | 1.194 | 546 |
| 200 | 12 | 270 | 22.196 | 33.300 | 22.196- | 23.703 | 0.068- | 23.389 | .105 | 41.5 | 24.761 | 22.266 | 1.187 | 541 |
| 200 | 03 | 255 | 20.227 | 31.534 | 19.518- | 21.784 | 5.310- | 22.799 | .063- | 117.5 | 23.154 | 21.407 | 1.204 | 552 |
| 200 | 06 | 262 | 19.617 | 30.416 | 19.428- | 20.671 | 2.712- | 22.313 | .143 | 59.0 | 23.167 | 19.709 | 1.198 | 552 |
| 200 | 09 | 275 | 25.625 | 32.936 | 25.544- | 23.731 | 2.030 | 22.839 | .189 | 39.5 | 25.442 | 20.916 | 1.198 | 546 |

## Sverdlovsk, U.S.S.R.

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 265 | 9.526 | 22.955 | 9.493- | 17.539 | 0.799- | 14.808 | .116- | 163.0 | 17.795 | 14.500 | 1.167 | 542 |
| 850 | 03 | 276 | 9.747 | 20.811 | 9.697- | 16.304 | 0.987 | 12.934 | .122- | 166.0 | 16.496 | 12.687 | 1.236 | 552 |
| 850 | 06 | 303 | 7.024 | 16.336 | 5.904- | 11.800 | 3.805 | 11.296 | .120 | 35.0 | 12.280 | 10.772 | 1.145 | 552 |
| 850 | 09 | 282 | 13.257 | 20.835 | 12.956- | 14.803 | 2.810 | 14.661 | .003 | 11.5 | 14.813 | 14.651 | 1.151 | 546 |
| 700 | 12 | 266 | 11.570 | 24.920 | 11.545- | 17.949 | 0.762- | 17.287 | .044 | 24.5 | 18.129 | 17.098 | 1.138 | 542 |
| 700 | 03 | 273 | 13.163 | 23.700 | 13.148- | 16.472 | 0.614 | 17.040 | .024 | 72.0 | 17.144 | 16.364 | 1.183 | 552 |
| 700 | 06 | 298 | 10.013 | 21.003 | 8.854- | 15.047 | 4.676 | 14.653 | .178 | 41.0 | 16.138 | 13.442 | 1.154 | 552 |
| 700 | 09 | 283 | 16.479 | 24.687 | 16.052- | 16.680 | 3.725 | 18.199 | .128 | 62.0 | 18.771 | 16.034 | 1.152 | 546 |
| 500 | 12 | 268 | 15.015 | 32.601 | 15.008- | 22.510 | 0.457- | 23.582 | .142 | 54.0 | 24.706 | 21.270 | 1.151 | 542 |
| 500 | 03 | 274 | 19.369 | 30.442 | 19.324- | 21.226 | 1.311 | 21.821 | .055 | 58.5 | 22.176 | 20.855 | 1.205 | 552 |
| 500 | 06 | 295 | 14.153 | 26.827 | 12.861- | 18.764 | 5.908 | 19.173 | .109 | 50.5 | 20.003 | 17.877 | 1.190 | 552 |
| 500 | 09 | 284 | 21.641 | 32.700 | 20.991- | 22.242 | 5.268 | 23.971 | .175 | 56.5 | 25.233 | 20.800 | 1.165 | 546 |
| 300 | 12 | 278 | 18.109 | 37.543 | 17.922- | 25.687 | 2.595 | 27.380 | .123 | 58.5 | 28.317 | 24.650 | 1.157 | 542 |
| 300 | 03 | 276 | 23.543 | 35.601 | 23.394- | 24.262 | 2.637 | 26.054 | .062 | 69.5 | 26.339 | 23.951 | 1.190 | 552 |
| 300 | 06 | 293 | 17.069 | 35.221 | 15.662- | 23.652 | 6.786 | 26.098 | .101 | 67.0 | 26.589 | 23.098 | 1.178 | 552 |
| 300 | 09 | 286 | 26.083 | 39.690 | 25.082- | 26.607 | 7.154 | 29.451 | .150 | 62.0 | 30.508 | 25.388 | 1.166 | 546 |
| 200 | 12 | 273 | 22.223 | 36.110 | 22.194- | 24.318 | 1.137 | 26.694 | .108 | 65.5 | 27.302 | 23.633 | 1.179 | 541 |
| 200 | 03 | 268 | 27.453 | 31.848 | 27.441- | 21.778 | 0.822- | 23.239 | .095 | 62.0 | 23.775 | 21.191 | 1.201 | 552 |
| 200 | 06 | 286 | 19.256 | 30.515 | 18.471- | 20.982 | 5.443 | 22.157 | .184 | 53.0 | 23.557 | 19.396 | 1.179 | 552 |
| 200 | 09 | 280 | 27.114 | 33.500 | 26.735- | 23.343 | 4.515 | 24.028 | .174 | 49.5 | 25.713 | 21.473 | 1.169 | 546 |

### Yakutsk, U.S.S.R.

| P | J | $\bar{\theta}$ | $\|\bar{V}\|$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 314 | 5.255 | 13.788 | 3.795- | 10.049 | 3.636 | 9.440 | .199- | 143.5 | 10.722 | 8.669 | 1.170 | 542 |
| 850 | 03 | 286 | 4.305 | 14.253 | 4.141- | 10.069 | 1.177 | 10.087 | .265- | 135.0 | 11.342 | 8.631 | 1.173 | 552 |
| 850 | 06 | 259 | 2.996 | 14.238 | 2.944- | 10.157 | 0.558- | 9.979 | .140- | 138.5 | 10.760 | 9.326 | 1.159 | 552 |
| 850 | 09 | 286 | 6.469 | 14.393 | 6.228- | 9.557 | 1.749 | 10.762 | .121- | 112.5 | 11.007 | 9.274 | 1.164 | 546 |
| 700 | 12 | 329 | 4.724 | 17.580 | 2.423- | 12.397 | 4.055 | 12.465 | .102- | 133.5 | 13.067 | 11.760 | 1.135 | 542 |
| 700 | 03 | 289 | 5.023 | 16.740 | 4.749- | 11.474 | 1.638 | 12.189 | .147- | 124.0 | 12.747 | 10.850 | 1.145 | 552 |
| 700 | 06 | 272 | 4.896 | 16.074 | 4.894- | 11.230 | 0.150 | 11.501 | .013- | 105.0 | 11.505 | 11.226 | 1.149 | 552 |
| 700 | 09 | 288 | 8.284 | 17.354 | 7.880- | 12.333 | 2.554 | 12.210 | .017 | 30.5 | 12.353 | 12.190 | 1.142 | 546 |
| 500 | 12 | 320 | 2.854 | 23.768 | 1.841- | 16.806 | 2.181 | 16.807 | .027- | 135.0 | 17.073 | 16.536 | 1.133 | 542 |
| 500 | 03 | 283 | 6.255 | 23.881 | 6.094- | 16.434 | 1.407 | 17.328 | .075- | 117.5 | 17.657 | 16.079 | 1.157 | 552 |
| 500 | 06 | 271 | 8.052 | 20.246 | 8.050- | 14.122 | 0.202 | 14.508 | .084 | 54.0 | 14.931 | 13.674 | 1.143 | 552 |
| 500 | 09 | 274 | 9.495 | 23.253 | 9.468- | 16.048 | 0.722 | 16.828 | .048 | 67.5 | 16.968 | 15.900 | 1.134 | 546 |
| 300 | 12 | 320 | 4.309 | 28.425 | 2.747- | 19.766 | 3.320 | 20.427 | .007- | 97.0 | 20.432 | 19.762 | 1.123 | 542 |
| 300 | 03 | 263 | 8.991 | 26.464 | 8.930- | 18.030 | 1.044- | 19.371 | .020- | 98.0 | 19.373 | 18.028 | 1.133 | 552 |
| 300 | 06 | 268 | 12.954 | 23.718 | 12.944- | 16.384 | 0.514- | 17.149 | .099 | 57.5 | 17.670 | 15.822 | 1.163 | 552 |
| 300 | 09 | 275 | 12.664 | 29.019 | 12.623- | 19.663 | 1.014 | 21.342 | .048 | 74.5 | 21.455 | 19.540 | 1.157 | 546 |
| 200 | 12 | 314 | 5.678 | 28.664 | 4.068- | 19.832 | 3.961 | 20.696 | .134- | 126.0 | 21.646 | 18.790 | 1.148 | 542 |
| 200 | 03 | 266 | 7.920 | 26.931 | 7.900- | 19.014 | 0.560- | 19.072 | .092- | 134.0 | 19.880 | 18.168 | 1.166 | 552 |
| 200 | 06 | 268 | 17.242 | 26.650 | 17.233- | 18.042 | 0.563- | 19.614 | .033 | 79.0 | 19.664 | 17.987 | 1.196 | 552 |
| 200 | 09 | 274 | 15.588 | 27.974 | 15.557- | 19.475 | 0.975 | 20.082 | .052 | 60.0 | 20.390 | 19.152 | 1.137 | 546 |

### Mys Chelyuskin, U.S.S.R

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 500 | 03 | 220 | 4.705 | 28.896 | 3.047- | 23.119 | 3.585- | 17.335 | .030- | 177.0 | 23.133 | 17.316 | 1.169 | 460 |

### Mys Zhelania, U.S.S.R.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 500 | 03 | 291 | 8.132 | 32.682 | 7.616- | 24.999 | 2.852 | 21.051 | .160 | 21.5 | 25.660 | 20.240 | 1.155 | 460 |

### Khatanga, U.S.S.R.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 500 | 03 | 262 | 5.831 | 27.316 | 5.778- | 21.330 | 0.779- | 17.065 | .174 | 19.0 | 21.827 | 16.424 | 1.190 | 460 |

### Bukhta Tiksi, U.S.S.R.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 500 | 03 | 203 | 4.592 | 24.823 | 1.827- | 18.938 | 4.213- | 16.048 | .044- | 172.5 | 18.985 | 15.992 | 1.159 | 460 |

### Ostrov Chetyrekh-Stolbovoy, U.S.S.R

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 500 | 03 | 190 | 5.112 | 24.047 | 0.898- | 17.884 | 5.033- | 16.076 | .096- | 159.0 | 18.172 | 15.750 | 1.160 | 460 |

### Turukhansk, U.S.S.R.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 500 | 03 | 293 | 19.240 | 29.080 | 17.698- | 20.127 | 7.545 | 20.988 | .138 | 53.5 | 21.995 | 19.022 | 1.214 | 457 |

## 17. Hong Kong

### Hong Kong (Royal Obs.)

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 132 | 1.960 | 13.415 | 1.454 | 9.450 | 1.314- | 9.522 | .200 | 46.0 | 10.391 | 8.485 | 1.121 | 254 |
| 850 | 03 | 202 | 8.854 | 12.194 | 3.348- | 9.290 | 8.197- | 7.899 | .178 | 24.0 | 9.596 | 7.524 | 1.166 | 239 |
| 850 | 06 | 190 | 7.487 | 14.912 | 1.334- | 12.220 | 7.368- | 8.548 | .233 | 16.5 | 12.510 | 8.117 | 1.171 | 269 |
| 850 | 09 | 075 | 7.910 | 12.963 | 7.641 | 9.435 | 2.046 | 8.888 | .037 | 16.0 | 9.475 | 8.846 | 1.258 | 300 |
| 700 | 12 | 259 | 17.260 | 14.444 | 16.935- | 11.026 | 3.333- | 9.331 | .148 | 20.5 | 11.284 | 9.017 | 1.288 | 247 |
| 700 | 03 | 250 | 17.415 | 12.142 | 16.385- | 9.633 | 5.900- | 7.392 | .049- | 175.0 | 9.646 | 7.374 | 1.301 | 236 |
| 700 | 06 | 195 | 7.465 | 14.813 | 1.892- | 11.945 | 7.221- | 8.761 | .121 | 10.5 | 12.045 | 8.623 | 1.176 | 267 |
| 700 | 09 | 237 | 1.205 | 13.318 | 1.015- | 10.565 | 0.649- | 8.108 | .007 | 1.0 | 10.567 | 8.107 | 1.162 | 293 |
| 500 | 12 | 259 | 36.796 | 19.175 | 36.144- | 14.187 | 6.897- | 12.900 | .251- | 145.5 | 15.263 | 11.607 | 1.330 | 241 |
| 500 | 03 | 256 | 27.808 | 15.872 | 27.038- | 12.919 | 6.499- | 9.220 | .148 | 11.5 | 13.059 | 9.020 | 1.742 | 243 |
| 500 | 06 | 160 | 2.935 | 15.509 | 0.988 | 13.252 | 2.764- | 8.057 | .172 | 9.0 | 13.366 | 7.868 | 1.239 | 273 |
| 500 | 09 | 260 | 6.069 | 16.311 | 5.971- | 13.815 | 1.088- | 8.672 | .079 | 4.5 | 13.841 | 8.630 | 1.191 | 284 |
| 300 | 12 | 257 | 57.969 | 21.916 | 56.419- | 15.778 | 13.314- | 15.211 | .077- | 147.5 | 16.149 | 14.817 | 1.432 | 213 |
| 300 | 03 | 262 | 42.882 | 24.021 | 42.457- | 19.741 | 6.021- | 13.686 | .222 | 15.5 | 20.151 | 13.075 | 1.784 | 217 |
| 300 | 06 | 072 | 7.256 | 17.236 | 6.908 | 14.664 | 2.221 | 9.059 | .237 | 12.5 | 14.903 | 8.661 | 1.174 | 261 |
| 300 | 09 | 264 | 12.179 | 23.885 | 12.122- | 20.243 | 1.180- | 12.676 | .359 | 18.0 | 20.981 | 11.414 | 1.284 | 260 |
| 200 | 12 | 251 | 57.529 | 24.829 | 54.436- | 16.027 | 18.610- | 18.964 | .202- | 115.0 | 19.708 | 15.103 | 1.287 | 116 |
| 200 | 03 | 266 | 43.354 | 26.103 | 43.263- | 21.121 | 2.817- | 15.338 | .361 | 24.0 | 22.325 | 13.527 | 1.573 | 165 |
| 200 | 06 | 063 | 13.565 | 25.348 | 12.116 | 22.160 | 6.099 | 12.306 | .255 | 11.0 | 22.471 | 11.728 | 1.209 | 243 |
| 200 | 09 | 270 | 14.500 | 27.849 | 14.500- | 22.729 | 0.006 | 16.092 | .344 | 22.0 | 23.827 | 14.416 | 1.230 | 224 |

## 18. Japan

### Fukuoka, Japan

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 284 | 13.716 | 16.458 | 13.278- | 11.757 | 3.435 | 11.517 | .170 | 41.5 | 12.596 | 10.592 | 1.229 | 436 |
| 850 | 03 | 264 | 6.087 | 18.630 | 6.054- | 13.059 | 0.635- | 13.287 | .103 | 50.0 | 13.846 | 12.465 | 1.219 | 444 |
| 850 | 06 | 213 | 6.523 | 17.836 | 3.533- | 13.708 | 5.484- | 11.411 | .049 | 7.5 | 13.744 | 11.367 | 1.303 | 436 |
| 850 | 09 | 294 | 3.733 | 15.953 | 3.423- | 11.454 | 1.490 | 11.104 | .260 | 41.5 | 12.673 | 9.690 | 1.168 | 442 |
| 700 | 12 | 278 | 32.603 | 22.054 | 32.279- | 15.311 | 4.588 | 15.872 | .159- | 128.5 | 16.820 | 14.263 | 1.287 | 451 |
| 700 | 03 | 274 | 21.344 | 23.276 | 21.291- | 17.489 | 1.507 | 15.359 | .030 | 6.5 | 17.517 | 15.327 | 1.300 | 460 |
| 700 | 06 | 241 | 9.252 | 19.007 | 8.064- | 15.433 | 4.535- | 11.095 | .080 | 6.5 | 15.485 | 11.022 | 1.265 | 460 |
| 700 | 09 | 270 | 17.232 | 19.037 | 17.232- | 14.029 | 0.110 | 12.868 | .045- | 166.0 | 14.100 | 12.790 | 1.277 | 455 |
| 500 | 12 | 272 | 60.817 | 28.223 | 60.770- | 20.410 | 2.380 | 19.493 | .003 | 2.0 | 20.411 | 19.492 | 1.409 | 453 |
| 500 | 03 | 269 | 45.678 | 29.406 | 45.674- | 23.042 | 0.641- | 18.270 | .149 | 16.0 | 23.436 | 17.762 | 1.480 | 454 |
| 500 | 06 | 255 | 17.007 | 24.199 | 16.450- | 20.115 | 4.317- | 13.453 | .109 | 7.5 | 20.212 | 13.307 | 1.274 | 460 |
| 500 | 09 | 264 | 38.841 | 27.497 | 38.601- | 19.857 | 4.311- | 19.020 | .026 | 15.5 | 19.927 | 18.947 | 1.406 | 455 |
| 300 | 12 | 269 | 98.154 | 37.379 | 98.137- | 29.335 | 1.799- | 23.166 | .038 | 4.5 | 29.371 | 23.120 | 1.569 | 424 |
| 300 | 03 | 268 | 74.288 | 39.416 | 74.246- | 29.498 | 2.479- | 26.143 | .080 | 17.0 | 29.815 | 25.781 | 1.468 | 428 |
| 300 | 06 | 256 | 28.282 | 39.170 | 27.415- | 32.080 | 6.950- | 22.477 | .122 | 9.5 | 32.304 | 22.155 | 1.344 | 368 |
| 300 | 09 | 262 | 66.608 | 41.555 | 65.963- | 32.335 | 9.246- | 26.101 | .077 | 10.0 | 32.512 | 25.880 | 1.537 | 364 |
| 200 | 12 | 268 | 112.535 | 44.029 | 112.469- | 34.262 | 3.860- | 27.653 | .148 | 17.0 | 34.893 | 26.853 | 1.562 | 448 |
| 200 | 03 | 266 | 87.171 | 44.199 | 86.903- | 33.423 | 6.837- | 28.921 | .176 | 25.5 | 34.604 | 27.497 | 1.486 | 423 |
| 200 | 06 | 260 | 32.047 | 46.061 | 31.518- | 38.803 | 5.796- | 24.818 | .183 | 11.0 | 39.236 | 24.128 | 1.335 | 369 |
| 200 | 09 | 262 | 77.812 | 47.537 | 76.963- | 39.114 | 11.459- | 27.017 | .180 | 12.5 | 39.660 | 26.208 | 1.608 | 363 |

## Furumaki, Japan

| P | J | $\bar{\theta}$ | $\bar{M}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 272 | 22.589 | 18.876 | 22.574- | 14.912 | 0.827 | 11.572 | .260- | 157.5 | 15.530 | 10.728 | 1.307 | 410 |
| 850 | 03 | 266 | 14.840 | 17.901 | 14.798- | 14.032 | 1.111- | 11.115 | .147- | 164.0 | 14.265 | 10.815 | 1.226 | 377 |
| 850 | 06 | 241 | 7.297 | 14.488 | 6.355- | 12.037 | 3.587- | 8.063 | .158- | 169.5 | 12.155 | 7.884 | 1.238 | 439 |
| 850 | 09 | 258 | 14.194 | 17.250 | 13.868- | 13.630 | 3.025- | 10.575 | .078- | 171.5 | 13.692 | 10.495 | 1.291 | 392 |
| 700 | 12 | 273 | 35.580 | 23.020 | 35.542- | 16.554 | 1.650 | 15.997 | .025- | 162.0 | 16.621 | 15.928 | 1.355 | 451 |
| 700 | 03 | 272 | 23.626 | 23.539 | 23.610- | 17.474 | 0.883 | 15.772 | .049 | 13.0 | 17.564 | 15.672 | 1.263 | 460 |
| 700 | 06 | 256 | 10.737 | 17.118 | 10.410- | 13.293 | 2.634- | 10.785 | .018- | 177.5 | 13.297 | 10.779 | 1.282 | 460 |
| 700 | 09 | 264 | 25.006 | 21.301 | 24.877- | 16.397 | 2.543- | 13.596 | .076 | 11.0 | 16.499 | 13.472 | 1.373 | 455 |
| 500 | 12 | 270 | 52.590 | 32.944 | 52.589- | 24.169 | 0.298 | 22.388 | .061 | 19.5 | 24.411 | 22.123 | 1.377 | 451 |
| 500 | 03 | 270 | 38.399 | 30.596 | 38.398- | 22.239 | 0.278 | 21.012 | .162 | 35.5 | 23.422 | 19.685 | 1.311 | 460 |
| 500 | 06 | 260 | 18.042 | 22.998 | 17.767- | 17.250 | 3.137- | 15.210 | .045 | 10.0 | 17.309 | 15.143 | 1.279 | 460 |
| 500 | 09 | 259 | 44.324 | 29.177 | 43.545- | 22.141 | 8.274- | 19.001 | .160 | 23.0 | 22.784 | 18.225 | 1.454 | 455 |
| 300 | 12 | 266 | 80.585 | 43.459 | 80.415- | 31.689 | 5.234- | 29.741 | .009 | 4.5 | 31.701 | 29.729 | 1.384 | 439 |
| 300 | 03 | 268 | 64.717 | 44.535 | 64.686- | 31.906 | 1.997- | 31.070 | .185 | 41.0 | 34.309 | 28.394 | 1.289 | 429 |
| 300 | 06 | 261 | 35.921 | 39.606 | 35.515- | 29.126 | 5.387- | 26.839 | .185 | 33.0 | 30.709 | 25.013 | 1.329 | 368 |
| 300 | 09 | 257 | 70.688 | 45.417 | 68.837- | 33.671 | 16.071- | 30.477 | .180 | 30.5 | 35.252 | 28.634 | 1.395 | 364 |
| 200 | 12 | 267 | 88.837 | 43.676 | 88.721- | 31.377 | 4.540- | 30.382 | .010 | 9.0 | 31.402 | 30.356 | 1.367 | 449 |
| 200 | 03 | 268 | 71.803 | 44.370 | 71.768- | 31.847 | 2.241- | 30.896 | .180 | 40.0 | 34.121 | 28.365 | 1.336 | 425 |
| 200 | 06 | 264 | 41.157 | 45.863 | 40.942- | 34.741 | 4.203- | 29.942 | .132 | 21.0 | 35.489 | 29.052 | 1.301 | 368 |
| 200 | 09 | 259 | 81.626 | 46.156 | 80.036- | 32.109 | 16.037- | 33.157 | .130 | 52.0 | 34.754 | 30.373 | 1.374 | 363 |

## Tateno, Japan

| P | J | $\bar{\theta}$ | $\bar{M}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 270 | 14.510 | 17.664 | 14.510- | 12.034 | 0.019- | 12.932 | .231- | 126.5 | 13.922 | 10.872 | 1.218 | 512 |
| 850 | 03 | 237 | 8.829 | 17.580 | 7.425- | 11.491 | 4.778- | 13.304 | .101 | 73.0 | 13.480 | 11.284 | 1.266 | 554 |
| 850 | 06 | 230 | 4.916 | 13.503 | 3.746- | 9.594 | 3.184- | 9.502 | .229 | 44.0 | 10.583 | 8.387 | 1.297 | 552 |
| 850 | 09 | 232 | 5.044 | 18.341 | 3.968- | 12.808 | 3.115- | 13.128 | .341 | 47.0 | 15.020 | 10.525 | 1.269 | 509 |
| 700 | 12 | 271 | 31.323 | 22.203 | 31.314- | 14.867 | 0.791 | 16.491 | .119- | 114.5 | 16.883 | 14.420 | 1.287 | 512 |
| 700 | 03 | 263 | 21.838 | 20.570 | 21.674- | 13.435 | 2.667- | 15.576 | .106 | 72.0 | 15.798 | 13.173 | 1.257 | 554 |
| 700 | 06 | 263 | 11.847 | 16.111 | 11.763- | 12.078 | 1.413- | 10.662 | .020 | 4.5 | 12.079 | 10.661 | 1.269 | 552 |
| 700 | 09 | 256 | 18.244 | 19.675 | 17.708- | 14.046 | 4.391- | 13.777 | .045 | 33.5 | 14.250 | 13.566 | 1.272 | 509 |
| 500 | 12 | 267 | 67.178 | 32.680 | 67.090- | 24.097 | 3.442- | 22.076 | .107 | 25.5 | 24.668 | 21.435 | 1.469 | 512 |
| 500 | 03 | 262 | 48.542 | 31.021 | 48.066- | 22.410 | 6.783- | 21.451 | .226 | 39.5 | 24.325 | 19.252 | 1.406 | 554 |
| 500 | 06 | 267 | 22.309 | 23.695 | 22.284- | 18.701 | 1.054- | 14.550 | .211 | 20.0 | 19.253 | 13.811 | 1.340 | 552 |
| 500 | 09 | 257 | 41.499 | 30.876 | 40.439- | 23.132 | 9.320- | 20.451 | .162 | 26.5 | 23.932 | 19.509 | 1.531 | 509 |
| 300 | 12 | 266 | 108.855 | 43.485 | 108.549- | 32.527 | 8.156- | 28.861 | .112 | 21.5 | 33.179 | 28.109 | 1.501 | 512 |
| 300 | 03 | 262 | 78.300 | 44.991 | 77.513- | 32.630 | 11.070- | 30.975 | .196 | 37.5 | 34.907 | 28.384 | 1.430 | 554 |
| 300 | 06 | 267 | 35.501 | 37.198 | 35.465- | 30.110 | 1.583- | 21.841 | .335 | 23.0 | 31.624 | 19.585 | 1.457 | 552 |
| 300 | 09 | 256 | 69.431 | 46.994 | 67.476- | 36.942 | 16.359- | 29.047 | .094 | 10.5 | 37.200 | 28.716 | 1.578 | 509 |
| 200 | 12 | 267 | 125.411 | 44.277 | 125.263- | 33.514 | 6.101- | 28.936 | .125 | 20.0 | 34.185 | 28.140 | 1.530 | 512 |
| 200 | 03 | 265 | 90.152 | 45.489 | 89.764- | 33.168 | 8.356- | 31.131 | .245 | 38.0 | 36.026 | 27.773 | 1.410 | 554 |
| 200 | 06 | 271 | 40.809 | 46.799 | 40.805- | 36.806 | 0.609 | 28.904 | .325 | 26.5 | 39.088 | 25.734 | 1.341 | 551 |
| 200 | 09 | 260 | 81.241 | 53.818 | 79.973- | 41.951 | 14.297- | 33.712 | .051 | 6.5 | 42.064 | 33.571 | 1.495 | 509 |

## Tokyo, Japan

| P | J | $\bar{\theta}$ | $\bar{M}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 262 | 11.235 | 16.036 | 11.117- | 10.490 | 1.621- | 12.128 | .137 | 68.5 | 12.411 | 10.153 | 1.255 | 410 |
| 850 | 03 | 246 | 7.591 | 17.343 | 6.930- | 11.084 | 3.100- | 13.338 | .287 | 61.5 | 14.179 | 9.986 | 1.264 | 411 |
| 850 | 06 | 222 | 3.573 | 13.076 | 2.399- | 9.853 | 2.648- | 8.597 | .439 | 36.5 | 11.157 | 6.819 | 1.265 | 423 |
| 850 | 09 | 251 | 4.889 | 16.508 | 4.609- | 11.234 | 1.630- | 12.096 | .299 | 52.0 | 13.349 | 9.712 | 1.197 | 420 |
| 700 | 12 | 273 | 30.150 | 20.165 | 30.113- | 13.521 | 1.500 | 14.961 | .071 | 72.5 | 15.114 | 13.350 | 1.335 | 451 |
| 700 | 03 | 268 | 20.497 | 21.003 | 20.484- | 14.630 | 0.732- | 15.069 | .172 | 50.0 | 16.095 | 13.493 | 1.266 | 460 |
| 700 | 06 | 254 | 8.414 | 16.392 | 8.081- | 12.975 | 2.343- | 10.018 | .122 | 12.5 | 13.110 | 9.840 | 1.266 | 460 |
| 700 | 09 | 266 | 19.013 | 19.090 | 18.956- | 12.833 | 1.476- | 14.132 | .053 | 75.5 | 14.221 | 12.734 | 1.262 | 455 |
| 500 | 12 | 270 | 59.056 | 29.110 | 59.056- | 21.223 | 0.043- | 19.924 | .076 | 25.5 | 21.583 | 19.534 | 1.438 | 451 |
| 500 | 03 | 267 | 44.212 | 30.939 | 44.139- | 23.128 | 2.533- | 20.550 | .172 | 28.0 | 24.043 | 19.471 | 1.385 | 460 |
| 500 | 06 | 261 | 18.153 | 23.928 | 17.929- | 20.243 | 2.848- | 12.758 | .154 | 9.0 | 20.397 | 12.510 | 1.353 | 460 |
| 500 | 09 | 263 | 41.237 | 29.503 | 40.951- | 21.584 | 4.843- | 20.113 | .064 | 21.0 | 21.835 | 19.841 | 1.418 | 455 |
| 300 | 12 | 267 | 98.005 | 42.219 | 97.875- | 32.010 | 5.057- | 27.528 | .129 | 20.5 | 32.661 | 26.752 | 1.498 | 446 |
| 300 | 03 | 267 | 75.564 | 43.760 | 75.475- | 32.773 | 3.683- | 28.998 | .132 | 23.5 | 33.599 | 28.037 | 1.458 | 428 |
| 300 | 06 | 259 | 30.317 | 37.648 | 29.791- | 30.992 | 5.623- | 21.374 | .344 | 21.0 | 32.378 | 19.209 | 1.445 | 368 |
| 300 | 09 | 259 | 68.694 | 42.674 | 67.468- | 32.711 | 12.920- | 27.405 | .097 | 14.5 | 33.053 | 26.991 | 1.494 | 364 |
| 200 | 12 | 268 | 111.695 | 44.814 | 111.588- | 33.762 | 4.879- | 29.470 | .054 | 11.0 | 33.914 | 29.295 | 1.497 | 450 |
| 200 | 03 | 269 | 87.252 | 44.857 | 87.230- | 32.034 | 1.976- | 31.399 | .119 | 40.5 | 33.589 | 29.730 | 1.399 | 423 |
| 200 | 06 | 264 | 34.137 | 45.408 | 33.943- | 38.006 | 3.632- | 24.848 | .314 | 18.0 | 39.243 | 22.844 | 1.365 | 368 |
| 200 | 09 | 261 | 79.678 | 49.603 | 78.611- | 39.642 | 12.996- | 29.816 | .130 | 12.0 | 40.060 | 29.253 | 1.545 | 363 |

## Wakkanai, Japan

| P | J | $\bar{\theta}$ | $\bar{M}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 279 | 12.863 | 21.933 | 12.708- | 17.338 | 1.990 | 13.433 | .151 | 15.0 | 17.613 | 13.070 | 1.227 | 541 |
| 850 | 03 | 259 | 12.856 | 22.303 | 12.617- | 17.022 | 2.466- | 14.411 | .262 | 29.0 | 18.030 | 13.127 | 1.211 | 552 |
| 850 | 06 | 227 | 5.023 | 17.004 | 3.666- | 13.949 | 3.435- | 9.725 | .206 | 14.5 | 14.211 | 9.339 | 1.222 | 551 |
| 850 | 09 | 256 | 13.507 | 20.666 | 13.131- | 16.165 | 3.165- | 12.874 | .184 | 19.5 | 16.579 | 12.337 | 1.237 | 544 |
| 700 | 12 | 271 | 21.775 | 23.295 | 21.769- | 17.881 | 0.497 | 14.930 | .050 | 8.0 | 17.943 | 14.856 | 1.242 | 542 |
| 700 | 03 | 268 | 19.531 | 24.485 | 19.522- | 18.288 | 0.592- | 16.280 | .169 | 28.0 | 19.006 | 15.436 | 1.251 | 552 |
| 700 | 06 | 260 | 7.807 | 19.793 | 7.680- | 15.414 | 1.403- | 12.417 | .072 | 9.5 | 15.483 | 12.331 | 1.220 | 551 |
| 700 | 09 | 261 | 22.453 | 23.519 | 22.162- | 17.123 | 3.602- | 16.123 | .093 | 28.5 | 17.538 | 15.670 | 1.319 | 546 |
| 500 | 12 | 270 | 36.133 | 37.540 | 36.133- | 28.166 | 0.057- | 24.818 | .060 | 12.5 | 28.351 | 24.607 | 1.324 | 542 |
| 500 | 03 | 271 | 31.250 | 34.332 | 31.243- | 25.704 | 0.650 | 22.759 | .122 | 22.5 | 26.276 | 22.096 | 1.326 | 552 |
| 500 | 06 | 273 | 14.503 | 25.769 | 14.479- | 18.970 | 0.833 | 17.441 | .074 | 20.5 | 19.194 | 17.194 | 1.244 | 551 |
| 500 | 09 | 264 | 36.494 | 35.049 | 36.263- | 25.387 | 4.100- | 24.164 | .014 | 8.5 | 25.391 | 24.160 | 1.356 | 546 |
| 300 | 12 | 266 | 44.805 | 39.822 | 44.708- | 30.084 | 2.945- | 26.091 | .055 | 10.5 | 30.218 | 25.937 | 1.289 | 541 |
| 300 | 03 | 266 | 40.701 | 40.945 | 40.596- | 28.464 | 2.933- | 29.433 | .056 | 60.5 | 29.865 | 28.011 | 1.260 | 552 |
| 300 | 06 | 279 | 25.618 | 36.812 | 25.319- | 27.467 | 3.899 | 24.509 | .072 | 16.5 | 27.712 | 24.231 | 1.276 | 551 |
| 300 | 09 | 260 | 51.397 | 42.005 | 50.648- | 31.356 | 8.742- | 27.950 | .051 | 12.0 | 31.527 | 27.756 | 1.367 | 546 |
| 200 | 12 | 265 | 53.848 | 35.736 | 53.639- | 27.240 | 4.740- | 23.131 | .099 | 15.5 | 27.563 | 22.745 | 1.357 | 542 |
| 200 | 03 | 264 | 48.195 | 36.610 | 47.958- | 26.030 | 4.777- | 25.743 | .074 | 40.5 | 26.799 | 24.942 | 1.295 | 552 |
| 200 | 06 | 278 | 34.223 | 42.478 | 33.854- | 29.971 | 5.013 | 30.102 | .108 | 46.0 | 31.639 | 28.343 | 1.284 | 551 |
| 200 | 09 | 258 | 60.513 | 38.001 | 59.129- | 27.744 | 12.867- | 25.969 | .033 | 13.5 | 27.833 | 25.873 | 1.411 | 546 |

## 19. Arabian Peninsula — Aden, British Protectorate

| P | J | $\bar{\theta}$ | $\|\bar{V}\|$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 059 | 10.763 | 7.771 | 9.223 | 6.801 | 5.547 | 3.758 | .298 | 12.5 | 6.927 | 3.522 | 1.409 | 415 |
| 850 | 03 | 093 | 5.393 | 9.127 | 5.386 | 8.082 | 0.262- | 4.243 | .503 | 18.0 | 8.423 | 3.516 | 1.252 | 455 |
| 850 | 06 | 271 | 8.325 | 7.583 | 8.324- | 6.376 | 0.145 | 4.106 | .076- | 175.5 | 6.389 | 4.086 | 1.314 | 454 |
| 850 | 09 | 074 | 6.598 | 11.007 | 6.339 | 10.052 | 1.829 | 4.485 | .442 | 13.0 | 10.281 | 3.932 | 1.267 | 397 |
| 700 | 12 | 048 | 7.932 | 11.569 | 5.858 | 9.096 | 5.348 | 7.150 | .008- | 179.0 | 9.095 | 7.151 | 1.240 | 415 |
| 700 | 03 | 052 | 11.045 | 11.518 | 8.749 | 8.701 | 6.741 | 7.547 | .407 | 35.5 | 9.731 | 6.163 | 1.325 | 454 |
| 700 | 06 | 063 | 7.295 | 8.663 | 6.524 | 6.956 | 3.263 | 5.163 | .279 | 21.5 | 7.232 | 4.768 | 1.358 | 456 |
| 700 | 09 | 039 | 13.845 | 10.160 | 8.765 | 6.827 | 10.718 | 7.524 | .022 | 83.5 | 7.542 | 6.807 | 1.399 | 397 |
| 500 | 12 | 066 | 2.263 | 14.894 | 2.064 | 11.699 | 0.928 | 9.219 | .018 | 2.5 | 11.697 | 9.220 | 1.152 | 416 |
| 500 | 03 | 067 | 4.309 | 15.444 | 3.969 | 12.841 | 1.677 | 8.580 | .253 | 15.5 | 13.144 | 8.110 | 1.161 | 454 |
| 500 | 06 | 052 | 15.583 | 9.720 | 12.286 | 6.762 | 9.585 | 6.982 | .101 | 54.0 | 7.226 | 6.501 | 1.469 | 453 |
| 500 | 09 | 080 | 10.442 | 10.800 | 10.281 | 8.482 | 1.826 | 6.686 | .062 | 7.5 | 8.508 | 6.652 | 1.287 | 395 |
| 300 | 12 | 282 | 15.134 | 21.014 | 14.781- | 17.063 | 3.247 | 12.266 | .208- | 164.0 | 17.419 | 11.754 | 1.358 | 413 |
| 300 | 03 | 280 | 12.363 | 20.884 | 12.166- | 16.159 | 2.195 | 13.229 | .060 | 8.5 | 16.224 | 13.150 | 1.236 | 447 |
| 300 | 06 | 076 | 23.222 | 10.703 | 22.574 | 8.875 | 5.444 | 5.982 | .087 | 6.0 | 8.904 | 5.939 | 1.574 | 446 |
| 300 | 09 | 096 | 7.376 | 15.164 | 7.336 | 12.969 | 0.763- | 7.859 | .088 | 5.0 | 12.999 | 7.809 | 1.184 | 392 |
| 200 | 12 | 277 | 20.646 | 28.026 | 20.489- | 22.840 | 2.542 | 16.242 | .416- | 155.0 | 24.367 | 13.845 | 1.311 | 397 |
| 200 | 03 | 275 | 16.243 | 24.285 | 16.169- | 19.335 | 1.543 | 14.694 | .043- | 175.5 | 19.362 | 14.659 | 1.264 | 434 |
| 200 | 06 | 084 | 41.895 | 17.219 | 41.646 | 14.322 | 4.560 | 9.559 | .199 | 13.0 | 14.539 | 9.226 | 1.611 | 430 |
| 200 | 09 | 095 | 10.293 | 25.591 | 10.256 | 22.862 | 0.875- | 11.499 | .141- | 174.5 | 22.938 | 11.346 | 1.219 | 374 |

## Bahrein, Arabia

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 278 | 8.987 | 14.487 | 8.889- | 9.017 | 1.325 | 11.339 | .227- | 112.0 | 11.754 | 8.470 | 1.264 | 417 |
| 850 | 03 | 291 | 10.279 | 15.586 | 9.571- | 8.138 | 3.749 | 13.293 | .314- | 106.0 | 13.650 | 7.522 | 1.184 | 452 |
| 850 | 06 | 327 | 15.609 | 15.173 | 8.459- | 10.065 | 13.118 | 11.354 | .629- | 129.5 | 13.723 | 6.472 | 1.562 | 447 |
| 850 | 09 | 316 | 6.739 | 11.971 | 4.647- | 7.257 | 4.880 | 9.520 | .241- | 110.5 | 9.848 | 6.805 | 1.233 | 396 |
| 700 | 12 | 266 | 20.057 | 16.011 | 20.019- | 10.865 | 1.235- | 11.760 | .199 | 56.0 | 12.477 | 10.034 | 1.238 | 417 |
| 700 | 03 | 269 | 18.017 | 17.733 | 18.016- | 11.939 | 0.176- | 13.112 | .182 | 58.5 | 13.756 | 11.190 | 1.256 | 453 |
| 700 | 06 | 327 | 9.671 | 14.827 | 5.268- | 10.778 | 8.110 | 10.182 | .408- | 139.0 | 12.458 | 8.040 | 1.329 | 445 |
| 700 | 09 | 306 | 6.634 | 15.337 | 5.374- | 11.030 | 3.890 | 10.656 | .001- | 179.0 | 11.031 | 10.655 | 1.179 | 398 |
| 500 | 12 | 267 | 41.451 | 24.483 | 41.405- | 17.148 | 1.948- | 17.474 | .248 | 47.0 | 19.353 | 14.995 | 1.315 | 416 |
| 500 | 03 | 267 | 30.718 | 22.674 | 30.686- | 17.926 | 1.420- | 13.884 | .339 | 26.5 | 19.057 | 12.286 | 1.481 | 453 |
| 500 | 06 | 023 | 3.394 | 13.250 | 1.325 | 10.512 | 3.125 | 8.066 | .053- | 174.5 | 10.534 | 8.037 | 1.166 | 446 |
| 500 | 09 | 276 | 12.060 | 20.495 | 11.986- | 16.973 | 1.337 | 11.486 | .351 | 20.5 | 17.715 | 10.306 | 1.302 | 398 |
| 300 | 12 | 268 | 74.794 | 38.258 | 74.760- | 26.158 | 2.253- | 27.918 | .128 | 58.5 | 28.952 | 25.008 | 1.277 | 411 |
| 300 | 03 | 265 | 55.682 | 34.078 | 55.440- | 25.757 | 5.183- | 22.313 | .179 | 25.5 | 26.695 | 21.182 | 1.420 | 445 |
| 300 | 06 | 081 | 3.765 | 17.232 | 3.713 | 14.942 | 0.619 | 8.583 | .123 | 6.0 | 14.997 | 8.487 | 1.217 | 441 |
| 300 | 09 | 264 | 29.755 | 30.149 | 29.576- | 25.699 | 3.259- | 15.765 | .333 | 16.5 | 26.471 | 14.431 | 1.584 | 393 |
| 200 | 12 | 270 | 87.427 | 40.541 | 87.426- | 25.419 | 0.362- | 31.582 | .129 | 74.5 | 32.036 | 24.845 | 1.226 | 370 |
| 200 | 03 | 266 | 69.443 | 39.204 | 69.296- | 28.236 | 4.510- | 27.198 | .164 | 38.5 | 29.964 | 25.281 | 1.329 | 421 |
| 200 | 06 | 110 | 9.693 | 19.563 | 9.083 | 16.510 | 3.383- | 10.495 | .157 | 9.5 | 16.646 | 10.279 | 1.209 | 435 |
| 200 | 09 | 257 | 36.713 | 35.612 | 35.761- | 31.048 | 8.306- | 17.443 | .197 | 9.0 | 31.319 | 16.952 | 1.554 | 391 |

## 20. Iraq — Habbaniya, Iraq

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 270 | 8.400 | 14.268 | 8.400- | 8.308 | 0.009- | 11.599 | .109- | 99.0 | 11.672 | 8.207 | 1.210 | 571 |
| 850 | 03 | 281 | 7.382 | 14.366 | 7.248- | 8.077 | 1.400 | 11.881 | .189- | 103.0 | 12.053 | 7.817 | 1.170 | 552 |
| 850 | 06 | 324 | 12.523 | 10.620 | 7.412- | 6.819 | 10.094 | 8.142 | .284- | 119.0 | 8.663 | 6.144 | 1.269 | 552 |
| 850 | 09 | 292 | 6.978 | 13.113 | 6.447- | 7.721 | 2.670 | 10.598 | .188- | 105.0 | 10.797 | 7.441 | 1.162 | 546 |
| 700 | 12 | 266 | 17.271 | 16.771 | 17.218- | 11.518 | 1.345- | 12.190 | .156 | 55.0 | 12.818 | 10.816 | 1.322 | 572 |
| 700 | 03 | 267 | 17.988 | 17.193 | 17.959- | 11.059 | 1.022- | 13.165 | .097 | 75.5 | 13.310 | 10.884 | 1.209 | 552 |
| 700 | 06 | 279 | 12.012 | 15.857 | 11.847- | 11.587 | 1.982 | 10.825 | .240- | 143.0 | 12.537 | 9.711 | 1.229 | 552 |
| 700 | 09 | 267 | 15.036 | 15.434 | 15.016- | 10.718 | 0.779- | 11.106 | .137 | 52.0 | 11.663 | 10.108 | 1.244 | 546 |
| 500 | 12 | 268 | 34.863 | 26.146 | 34.835- | 19.011 | 1.419- | 17.950 | .200 | 37.0 | 20.318 | 16.456 | 1.392 | 572 |
| 500 | 03 | 263 | 31.244 | 23.270 | 30.982- | 15.947 | 4.031- | 16.946 | .150 | 56.0 | 17.747 | 15.051 | 1.316 | 552 |
| 500 | 06 | 266 | 16.098 | 17.243 | 16.054- | 13.919 | 1.189- | 10.177 | .062 | 5.5 | 13.951 | 10.133 | 1.305 | 552 |
| 500 | 09 | 263 | 25.024 | 18.798 | 24.847- | 13.465 | 2.968- | 13.118 | .318 | 42.5 | 15.274 | 10.959 | 1.408 | 546 |
| 300 | 12 | 269 | 65.952 | 43.537 | 65.945- | 32.774 | 0.983- | 28.660 | .184 | 27.0 | 34.089 | 27.082 | 1.437 | 572 |
| 300 | 03 | 263 | 54.197 | 37.596 | 53.738- | 27.168 | 7.035- | 25.988 | .091 | 32.0 | 27.877 | 25.226 | 1.374 | 552 |
| 300 | 06 | 259 | 30.483 | 24.659 | 29.918- | 20.523 | 5.840- | 13.670 | .386 | 21.5 | 21.537 | 12.010 | 1.607 | 552 |
| 300 | 09 | 264 | 45.406 | 30.024 | 45.179- | 21.436 | 4.533- | 21.023 | .233 | 42.5 | 23.575 | 18.592 | 1.471 | 546 |
| 200 | 12 | 270 | 83.191 | 43.468 | 83.188- | 33.547 | 0.612 | 27.641 | .118 | 15.5 | 34.002 | 27.079 | 1.549 | 572 |
| 200 | 03 | 265 | 67.967 | 37.630 | 67.655- | 26.410 | 6.506- | 26.805 | .053 | 53.0 | 27.357 | 25.839 | 1.387 | 552 |
| 200 | 06 | 253 | 33.679 | 27.614 | 32.258- | 22.697 | 9.682- | 15.728 | .378 | 22.5 | 23.911 | 13.813 | 1.698 | 552 |
| 200 | 09 | 264 | 55.356 | 31.127 | 55.025- | 21.884 | 6.046- | 22.135 | .140 | 47.5 | 23.522 | 20.387 | 1.441 | 546 |

## 21. India — Calcutta, India

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 308 | 10.066 | 10.491 | 7.967- | 7.205 | 6.152 | 7.625 | .154- | 125.0 | 8.007 | 6.779 | 1.285 | 1325 |
| 850 | 03 | 261 | 8.426 | 11.831 | 8.317- | 7.947 | 1.346- | 8.765 | .091 | 68.5 | 8.901 | 7.795 | 1.259 | 1234 |
| 850 | 06 | 211 | 6.228 | 14.019 | 3.169- | 10.891 | 5.361- | 8.826 | .125- | 164.5 | 11.045 | 8.633 | 1.172 | 1030 |
| 850 | 09 | 310 | 1.088 | 11.778 | 0.838- | 7.910 | 0.695 | 8.727 | .276- | 125.0 | 9.469 | 7.004 | 1.177 | 1135 |
| 700 | 12 | 288 | 18.470 | 13.617 | 17.541- | 9.603 | 5.785 | 9.654 | .184- | 134.0 | 10.481 | 8.693 | 1.336 | 1100 |
| 700 | 03 | 296 | 17.081 | 13.267 | 15.393- | 9.269 | 7.403 | 9.492 | .178- | 131.0 | 10.194 | 8.491 | 1.305 | 944 |
| 700 | 06 | 244 | 3.294 | 15.928 | 2.967- | 12.509 | 1.430- | 9.860 | .294- | 154.5 | 13.182 | 8.940 | 1.179 | 678 |
| 700 | 09 | 268 | 4.764 | 13.943 | 4.762- | 10.712 | 0.144- | 8.925 | .375- | 148.0 | 11.711 | 7.566 | 1.187 | 927 |
| 500 | 12 | 273 | 34.582 | 22.897 | 34.543- | 17.068 | 1.632 | 15.263 | .327 | 35.5 | 18.767 | 13.118 | 1.284 | 517 |
| 500 | 03 | 285 | 23.645 | 18.925 | 22.820- | 13.658 | 6.193 | 13.101 | .151- | 142.5 | 14.393 | 12.288 | 1.392 | 424 |
| 500 | 06 | 109 | 4.031 | 15.652 | 3.800 | 12.453 | 1.344- | 9.482 | .192- | 162.5 | 12.737 | 9.097 | 1.204 | 304 |
| 500 | 09 | 270 | 9.828 | 20.162 | 9.828- | 16.753 | 0.024- | 11.217 | .372- | 159.0 | 17.540 | 9.941 | 1.296 | 445 |
| 300 | 12 | 265 | 59.489 | 30.017 | 59.235- | 21.929 | 5.493- | 20.497 | .155 | 33.5 | 22.945 | 19.353 | 1.436 | 219 |
| 300 | 03 | 271 | 34.163 | 28.154 | 34.157- | 20.907 | 0.682 | 18.856 | .099- | 158.0 | 21.284 | 18.429 | 1.491 | 253 |
| 300 | 06 | 095 | 12.393 | 15.253 | 12.352 | 12.728 | 1.010- | 8.404 | .002 | 0.0 | 12.729 | 8.403 | 1.184 | 252 |
| 300 | 09 | 247 | 11.213 | 25.372 | 10.349- | 22.232 | 4.315- | 12.226 | .056 | 2.5 | 22.246 | 12.200 | 1.236 | 267 |
| 200 | 12 | 256 | 74.850 | 31.184 | 72.709- | 20.952 | 17.775- | 23.097 | .227 | 56.5 | 24.622 | 19.137 | 1.444 | 143 |
| 200 | 03 | 265 | 43.133 | 34.858 | 42.946- | 27.810 | 4.006- | 21.017 | .029- | 177.0 | 27.828 | 20.993 | 1.511 | 177 |
| 200 | 06 | 082 | 24.429 | 19.130 | 24.217 | 16.857 | 3.210 | 9.045 | .267 | 11.0 | 17.088 | 8.600 | 1.426 | 206 |
| 200 | 09 | 231 | 14.541 | 36.243 | 11.257- | 31.777 | 9.204- | 17.430 | .524 | 19.5 | 33.375 | 14.130 | 1.244 | 182 |

## Trivandrum, India

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 054 | 5.491 | 7.453 | 4.426 | 5.948 | 3.250 | 4.491 | .184 | 16.5 | 6.070 | 4.325 | 1.260 | 823 |
| 850 | 03 | 351 | 4.714 | 10.158 | 0.723- | 8.743 | 4.658 | 5.172 | .249- | 168.0 | 8.882 | 4.928 | 1.177 | 861 |
| 850 | 06 | 299 | 25.472 | 12.305 | 22.207- | 9.086 | 12.477 | 8.297 | .173- | 149.0 | 9.511 | 7.806 | 1.432 | 771 |
| 850 | 09 | 313 | 6.980 | 13.338 | 5.126- | 11.390 | 4.737 | 6.942 | .379- | 162.0 | 11.814 | 6.192 | 1.297 | 769 |
| 700 | 12 | 076 | 5.361 | 9.439 | 5.197 | 7.814 | 1.317 | 5.294 | .000 | 0.0 | 7.814 | 5.294 | 1.201 | 754 |
| 700 | 03 | 059 | 10.137 | 11.913 | 8.722 | 9.361 | 5.166 | 7.369 | .286 | 25.0 | 9.839 | 6.717 | 1.396 | 771 |
| 700 | 06 | 291 | 17.809 | 14.809 | 16.668- | 12.487 | 6.272 | 7.961 | .256- | 165.5 | 12.748 | 7.536 | 1.541 | 442 |
| 700 | 09 | 309 | 4.043 | 12.651 | 3.160- | 11.187 | 2.523 | 5.909 | .346- | 166.5 | 11.429 | 5.426 | 1.261 | 626 |
| 500 | 12 | 076 | 7.771 | 13.234 | 7.528 | 10.661 | 1.925 | 7.840 | .155 | 13.0 | 10.804 | 7.643 | 1.281 | 481 |
| 500 | 03 | 072 | 3.617 | 12.378 | 3.439 | 10.060 | 1.121 | 7.213 | .187 | 14.5 | 10.232 | 6.967 | 1.211 | 385 |
| 500 | 06 | 092 | 2.793 | 14.749 | 2.791 | 13.838 | 0.107- | 5.102 | .139- | 176.5 | 13.860 | 5.043 | 1.470 | 96 |
| 500 | 09 | 073 | 6.156 | 10.683 | 5.883 | 8.856 | 1.814 | 5.975 | .107 | 7.5 | 8.896 | 5.915 | 1.240 | 332 |
| 300 | 12 | 187 | 3.707 | 16.862 | 0.471- | 12.776 | 3.677- | 11.004 | .290 | 31.5 | 13.713 | 9.812 | 1.133 | 162 |
| 300 | 03 | 231 | 2.123 | 14.892 | 1.646- | 11.449 | 1.340- | 9.523 | .121 | 16.5 | 11.624 | 9.309 | 1.160 | 116 |
| 300 | 06 | 092 | 16.729 | 9.961 | 16.721 | 8.291 | 0.521- | 5.520 | .052- | 176.5 | 8.301 | 5.505 | 1.481 | 33 |
| 300 | 09 | 098 | 11.838 | 9.681 | 11.718 | 7.931 | 1.684- | 5.552 | .049 | 4.0 | 7.938 | 5.541 | 1.538 | 81 |

## Veraval, India

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 279 | 1.974 | 10.833 | 1.951- | 8.046 | 0.301 | 7.253 | .057 | 14.5 | 8.097 | 7.196 | 1.187 | 1073 |
| 850 | 03 | 292 | 7.098 | 11.604 | 6.569- | 9.046 | 2.687 | 7.267 | .103 | 12.5 | 9.132 | 7.159 | 1.206 | 999 |
| 850 | 06 | 253 | 13.059 | 12.912 | 12.504- | 10.998 | 3.765- | 6.765 | .040 | 2.5 | 11.004 | 6.754 | 1.271 | 593 |
| 850 | 09 | 091 | 1.767 | 11.184 | 1.766 | 8.685 | 0.037- | 7.047 | .402 | 31.0 | 9.505 | 5.894 | 1.138 | 816 |
| 700 | 12 | 268 | 9.835 | 13.857 | 9.828- | 10.334 | 0.359- | 9.232 | .087 | 19.0 | 10.478 | 9.069 | 1.288 | 919 |
| 700 | 03 | 260 | 7.056 | 14.402 | 6.945- | 9.527 | 1.248- | 10.801 | .194 | 61.5 | 11.294 | 8.936 | 1.197 | 748 |
| 700 | 06 | 286 | 0.865 | 13.246 | 0.829- | 10.834 | 0.244 | 7.622 | .080 | 6.5 | 10.870 | 7.570 | 1.130 | 182 |
| 700 | 09 | 087 | 1.569 | 12.191 | 1.567 | 8.967 | 0.086 | 8.259 | .208 | 34.0 | 9.530 | 7.602 | 1.203 | 636 |
| 500 | 12 | 271 | 27.659 | 21.981 | 27.655- | 16.831 | 0.458 | 14.138 | .231 | 26.5 | 17.631 | 13.127 | 1.298 | 432 |
| 500 | 03 | 284 | 12.982 | 20.287 | 12.588- | 16.131 | 3.177 | 12.303 | .259 | 21.5 | 16.760 | 11.432 | 1.253 | 387 |
| 500 | 06 | 096 | 3.060 | 13.278 | 3.045 | 10.992 | 0.305- | 7.448 | .370 | 21.5 | 11.520 | 6.602 | 1.193 | 57 |
| 500 | 09 | 295 | 5.798 | 13.202 | 5.247- | 10.339 | 2.466 | 8.209 | .163 | 17.5 | 10.551 | 7.935 | 1.222 | 318 |
| 300 | 12 | 267 | 43.285 | 28.334 | 43.233- | 19.553 | 2.117- | 20.505 | .008- | 95.0 | 20.511 | 19.547 | 1.279 | 85 |
| 300 | 03 | 282 | 25.433 | 25.156 | 24.853- | 18.220 | 5.397 | 17.344 | .048- | 157.5 | 18.373 | 17.182 | 1.393 | 116 |
| 300 | 06 | 079 | 9.810 | 11.955 | 9.638 | 10.739 | 1.831 | 5.253 | .036- | 178.5 | 10.741 | 5.249 | 1.342 | 16 |
| 300 | 09 | 260 | 11.333 | 19.723 | 11.161- | 17.521 | 1.970- | 9.056 | .319 | 12.0 | 17.829 | 8.434 | 1.334 | 90 |

## 22. Korea — Seoul, Korea

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 299 | 18.660 | 14.486 | 16.365- | 9.154 | 8.966 | 11.227 | .095- | 102.5 | 11.324 | 9.034 | 1.302 | 173 |
| 850 | 03 | 284 | 7.537 | 17.170 | 7.317- | 11.770 | 1.807 | 12.501 | .079- | 116.5 | 12.732 | 11.520 | 1.208 | 153 |
| 850 | 06 | 254 | 4.030 | 15.150 | 3.873- | 12.023 | 1.111- | 9.217 | .086 | 9.0 | 12.086 | 9.134 | 1.275 | 216 |
| 850 | 10 | 300 | 8.734 | 14.760 | 7.529- | 10.437 | 4.427- | 10.437 | .211- | 135.0 | 11.486 | 9.270 | 1.207 | 195 |
| 700 | 12 | 291 | 29.067 | 17.536 | 27.110- | 11.669 | 10.486 | 13.090 | .035- | 98.5 | 13.122 | 11.633 | 1.357 | 461 |
| 700 | 03 | 287 | 18.243 | 20.054 | 17.412- | 14.210 | 5.442 | 14.151 | .062- | 137.0 | 14.615 | 13.732 | 1.261 | 461 |
| 700 | 06 | 270 | 7.091 | 17.139 | 7.091- | 13.597 | 0.011- | 10.435 | .171 | 16.5 | 13.858 | 10.086 | 1.199 | 460 |
| 700 | 09 | 290 | 17.332 | 17.056 | 16.320- | 12.890 | 5.837 | 11.168 | .049 | 9.5 | 12.936 | 11.115 | 1.275 | 455 |
| 500 | 12 | 284 | 48.803 | 29.117 | 47.439- | 21.630 | 11.458 | 19.490 | .056 | 14.5 | 21.771 | 19.332 | 1.366 | 451 |
| 500 | 03 | 284 | 33.366 | 25.496 | 32.377- | 18.984 | 8.063 | 17.018 | .080 | 18.0 | 19.206 | 16.767 | 1.345 | 456 |
| 500 | 06 | 276 | 14.648 | 20.286 | 14.557- | 15.255 | 1.630 | 13.372 | .123 | 21.5 | 15.580 | 12.992 | 1.245 | 459 |
| 500 | 09 | 279 | 34.138 | 25.333 | 33.724- | 19.481 | 5.300 | 16.195 | .151 | 19.5 | 19.913 | 15.661 | 1.425 | 455 |
| 300 | 12 | 278 | 78.880 | 39.317 | 78.030- | 30.233 | 11.550 | 25.136 | .182 | 22.0 | 31.155 | 23.983 | 1.486 | 421 |
| 300 | 03 | 278 | 55.761 | 37.734 | 55.237- | 27.717 | 7.628 | 25.605 | .178 | 33.0 | 29.161 | 23.947 | 1.377 | 428 |
| 300 | 06 | 268 | 24.282 | 30.050 | 24.263- | 23.533 | 0.949- | 18.687 | .018 | 2.5 | 23.540 | 18.678 | 1.306 | 368 |
| 300 | 09 | 275 | 55.885 | 39.272 | 55.677- | 29.403 | 4.821 | 26.033 | .269 | 33.0 | 31.584 | 23.339 | 1.336 | 364 |
| 200 | 12 | 275 | 86.977 | 41.205 | 86.617- | 32.348 | 7.893 | 25.524 | .217 | 21.0 | 33.404 | 24.126 | 1.458 | 448 |
| 200 | 03 | 274 | 65.078 | 36.573 | 64.925- | 27.295 | 4.462 | 24.343 | .206 | 30.5 | 28.738 | 22.621 | 1.417 | 426 |
| 200 | 06 | 269 | 30.790 | 36.947 | 30.788- | 27.117 | 0.303- | 25.096 | .024 | 9.0 | 27.164 | 25.045 | 1.299 | 368 |
| 200 | 09 | 270 | 68.550 | 40.763 | 68.549- | 30.418 | 0.341 | 27.137 | .217 | 31.0 | 32.150 | 25.061 | 1.467 | 363 |

## 23. Philippines — Angeles, Luzon

| P | J | $\bar{\theta}$ | $\bar{\|V\|}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 078 | 11.071 | 9.568 | 10.816 | 7.357 | 2.362 | 6.117 | .110 | 15.5 | 7.448 | 6.006 | 1.382 | 525 |
| 850 | 03 | 100 | 5.396 | 7.304 | 5.312 | 5.733 | 0.947- | 4.525 | .220 | 21.5 | 5.923 | 4.274 | 1.300 | 538 |
| 850 | 06 | 212 | 5.801 | 13.601 | 3.056- | 11.030 | 4.931- | 7.957 | .205 | 16.0 | 11.259 | 7.630 | 1.283 | 534 |
| 850 | 09 | 083 | 4.391 | 13.632 | 4.357 | 10.513 | 0.540 | 8.677 | .300 | 28.5 | 11.201 | 7.769 | 1.217 | 522 |
| 700 | 12 | 103 | 8.730 | 12.704 | 8.490 | 10.275 | 2.034- | 7.470 | .046- | 176.0 | 10.287 | 7.454 | 1.299 | 520 |
| 700 | 03 | 108 | 6.078 | 9.198 | 5.786 | 7.241 | 1.861- | 5.672 | .024- | 177.0 | 7.247 | 5.664 | 1.324 | 532 |
| 700 | 06 | 196 | 5.073 | 16.211 | 1.375- | 13.272 | 4.883- | 9.309 | .239 | 16.5 | 13.600 | 8.822 | 1.253 | 529 |
| 700 | 09 | 102 | 6.276 | 15.186 | 6.145 | 11.777 | 1.274- | 9.586 | .087 | 11.5 | 11.867 | 9.476 | 1.236 | 520 |
| 500 | 12 | 155 | 3.550 | 12.800 | 1.490 | 9.737 | 3.223- | 8.308 | .151- | 158.0 | 9.987 | 8.006 | 1.205 | 511 |
| 500 | 06 | 121 | 1.933 | 10.179 | 1.664 | 7.916 | 0.984- | 6.400 | .056 | 7.5 | 7.937 | 6.374 | 1.216 | 528 |
| 500 | 06 | 123 | 4.491 | 14.376 | 3.776 | 11.116 | 2.433- | 9.115 | .305 | 28.5 | 11.850 | 8.139 | 1.203 | 501 |
| 500 | 09 | 106 | 6.255 | 14.332 | 6.019 | 10.343 | 1.701- | 9.921 | .078 | 31.0 | 10.567 | 9.681 | 1.223 | 498 |

## 24. Malaya — Singapore, Malaya

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 351 | 7.357 | 11.611 | 1.165- | 9.292 | 7.264 | 6.962 | .281 | 22.0 | 9.682 | 6.409 | 1.188 | 442 |
| 850 | 03 | 288 | 2.337 | 9.954 | 2.222- | 7.276 | 0.725 | 6.794 | .094 | 27.0 | 7.436 | 6.618 | 1.180 | 440 |
| 850 | 06 | 231 | 9.693 | 10.344 | 7.559- | 8.015 | 6.068- | 6.538 | .021- | 177.0 | 8.016 | 6.537 | 1.267 | 433 |
| 850 | 09 | 238 | 7.393 | 13.101 | 6.271- | 10.039 | 3.916- | 8.418 | .210- | 155.0 | 10.442 | 7.913 | 1.183 | 470 |
| 700 | 12 | 324 | 3.532 | 12.144 | 2.099- | 9.838 | 2.841 | 7.120 | .052- | 175.5 | 9.854 | 7.098 | 1.149 | 348 |
| 700 | 03 | 301 | 2.414 | 10.417 | 2.079- | 8.440 | 1.227 | 6.105 | .076- | 173.5 | 8.467 | 6.067 | 1.192 | 400 |
| 700 | 06 | 263 | 8.239 | 12.515 | 8.180- | 9.928 | 0.982- | 7.619 | .001 | 0.0 | 9.930 | 7.618 | 1.212 | 370 |
| 700 | 09 | 259 | 5.789 | 13.679 | 5.686- | 11.043 | 1.089- | 8.073 | .093- | 172.0 | 11.098 | 7.997 | 1.180 | 404 |
| 500 | 12 | 093 | 4.947 | 11.657 | 4.938 | 9.434 | 0.288- | 6.847 | .034- | 177.0 | 9.440 | 6.840 | 1.153 | 181 |
| 500 | 03 | 090 | 3.702 | 10.504 | 3.702 | 8.455 | 0.007 | 6.232 | .000- | 180.0 | 8.455 | 6.232 | 1.148 | 252 |
| 500 | 06 | 099 | 8.052 | 11.129 | 7.946 | 9.193 | 1.304- | 6.273 | .084 | 6.0 | 9.220 | 6.232 | 1.215 | 191 |
| 500 | 09 | 083 | 5.328 | 11.874 | 5.285 | 10.411 | 0.677 | 5.709 | .008- | 179.5 | 10.411 | 5.709 | 1.167 | 197 |
| 300 | 12 | 097 | 11.094 | 11.567 | 11.007 | 9.229 | 1.393- | 6.973 | .109- | 169.5 | 9.300 | 6.878 | 1.245 | 113 |
| 300 | 03 | 096 | 9.423 | 9.636 | 9.375 | 7.147 | 0.944- | 6.464 | .135- | 153.5 | 7.359 | 6.221 | 1.273 | 171 |
| 300 | 06 | 083 | 21.292 | 11.265 | 21.139 | 9.204 | 2.544 | 6.494 | .011- | 179.0 | 9.204 | 6.494 | 1.541 | 125 |
| 300 | 09 | 088 | 14.464 | 12.651 | 14.454 | 10.566 | 0.523 | 6.958 | .109 | 7.0 | 10.613 | 6.885 | 1.458 | 120 |
| 200 | 12 | 117 | 20.584 | 14.601 | 18.401 | 11.341 | 9.225- | 9.196 | .224- | 156.5 | 11.775 | 8.633 | 1.410 | 70 |
| 200 | 03 | 096 | 18.754 | 16.709 | 18.634 | 13.638 | 2.119- | 9.653 | .164- | 167.5 | 13.813 | 9.401 | 1.367 | 111 |
| 200 | 06 | 074 | 37.102 | 16.606 | 35.643 | 12.712 | 10.304 | 10.684 | .131 | 18.5 | 12.942 | 10.405 | 1.243 | 95 |
| 200 | 09 | 083 | 29.025 | 18.224 | 28.797 | 14.669 | 3.631 | 10.813 | .382 | 25.5 | 15.629 | 9.373 | 1.535 | 89 |

## 25. Pacific Stations — Guam, Marianas Is.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 090 | 19.877 | 12.351 | 19.877 | 9.391 | 0.072 | 8.023 | .135 | 20.5 | 9.585 | 7.789 | 1.361 | 407 |
| 850 | 03 | 093 | 16.107 | 11.363 | 16.090 | 9.106 | 0.736- | 6.796 | .013 | 1.5 | 9.107 | 6.795 | 1.404 | 360 |
| 850 | 06 | 114 | 10.730 | 12.289 | 9.835 | 10.248 | 4.290- | 6.782 | .123 | 8.0 | 10.307 | 6.693 | 1.250 | 409 |
| 850 | 09 | 109 | 10.407 | 14.824 | 9.826 | 12.298 | 3.429- | 8.278 | .122 | 8.5 | 12.372 | 8.167 | 1.232 | 421 |
| 700 | 12 | 092 | 14.841 | 12.650 | 14.829 | 9.869 | 0.616- | 7.914 | .100 | 12.0 | 9.954 | 7.807 | 1.346 | 451 |
| 700 | 03 | 094 | 11.417 | 11.172 | 11.393 | 9.019 | 0.752- | 6.593 | .146 | 12.5 | 9.123 | 6.449 | 1.289 | 460 |
| 700 | 06 | 115 | 9.372 | 12.307 | 8.464 | 10.192 | 4.025- | 6.898 | .219 | 14.5 | 10.383 | 6.607 | 1.242 | 459 |
| 700 | 09 | 105 | 10.096 | 14.492 | 9.763 | 11.259 | 2.570- | 9.125 | .065 | 8.5 | 11.301 | 9.073 | 1.245 | 454 |
| 500 | 12 | 097 | 12.471 | 15.048 | 12.390 | 12.140 | 1.424- | 8.892 | .006 | 0.5 | 12.139 | 8.893 | 1.234 | 451 |
| 500 | 03 | 089 | 7.345 | 12.557 | 7.343 | 9.840 | 0.176 | 7.800 | .026- | 176.0 | 9.849 | 7.789 | 1.162 | 453 |
| 500 | 06 | 112 | 8.072 | 12.955 | 7.502 | 9.944 | 2.978- | 8.304 | .071 | 10.5 | 9.998 | 8.238 | 1.216 | 460 |
| 500 | 09 | 101 | 10.621 | 14.275 | 10.433 | 10.947 | 1.989- | 9.162 | .105 | 15.0 | 11.077 | 9.004 | 1.245 | 454 |
| 300 | 12 | 100 | 5.424 | 16.031 | 5.343 | 13.121 | 0.930- | 9.211 | .224- | 163.5 | 13.410 | 8.784 | 1.207 | 450 |
| 300 | 03 | 279 | 4.497 | 17.907 | 4.442- | 14.703 | 0.697 | 10.222 | .063 | 5.0 | 14.731 | 10.182 | 1.170 | 428 |
| 300 | 06 | 077 | 4.530 | 16.441 | 4.411 | 12.300 | 1.032 | 10.909 | .048 | 11.0 | 12.345 | 10.858 | 1.149 | 366 |
| 300 | 09 | 088 | 7.465 | 17.957 | 7.458 | 14.840 | 0.321 | 10.111 | .006- | 179.0 | 14.840 | 10.111 | 1.250 | 364 |
| 200 | 12 | 130 | 2.630 | 19.077 | 2.011 | 16.202 | 1.694- | 10.071 | .130- | 172.0 | 16.287 | 9.933 | 1.214 | 450 |
| 200 | 03 | 259 | 9.892 | 21.938 | 9.715- | 18.162 | 1.867- | 12.306 | .056 | 4.0 | 18.185 | 12.272 | 1.220 | 426 |
| 200 | 06 | 062 | 5.118 | 23.135 | 4.519 | 17.835 | 2.403 | 14.736 | .084 | 12.0 | 17.962 | 14.580 | 1.168 | 368 |
| 200 | 09 | 073 | 5.668 | 23.047 | 5.425 | 18.560 | 1.640 | 13.664 | .064 | 6.0 | 18.603 | 13.605 | 1.226 | 363 |

## Honolulu, Oahu, T.H.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 086 | 6.580 | 15.006 | 6.568 | 12.348 | 0.403 | 8.525 | .399 | 23.5 | 13.062 | 7.386 | 1.184 | 436 |
| 850 | 03 | 071 | 9.557 | 11.152 | 9.019 | 9.662 | 3.161 | 5.569 | .162 | 8.0 | 9.723 | 5.462 | 1.283 | 442 |
| 850 | 06 | 073 | 12.055 | 9.144 | 11.504 | 7.552 | 3.604 | 5.155 | .154 | 11.0 | 7.628 | 5.042 | 1.408 | 458 |
| 850 | 09 | 069 | 11.655 | 11.799 | 10.877 | 10.030 | 4.189 | 6.214 | .321 | 16.5 | 10.319 | 5.720 | 1.294 | 452 |
| 700 | 12 | 121 | 3.345 | 16.951 | 2.870 | 13.848 | 1.717- | 9.776 | .295 | 20.0 | 14.359 | 9.009 | 1.186 | 451 |
| 700 | 03 | 072 | 2.995 | 12.021 | 2.847 | 10.072 | 0.930 | 6.563 | .158 | 10.0 | 10.161 | 6.424 | 1.186 | 460 |
| 700 | 06 | 081 | 7.065 | 9.498 | 6.969 | 7.612 | 1.164 | 5.681 | .034 | 3.5 | 7.616 | 5.675 | 1.265 | 459 |
| 700 | 09 | 073 | 5.815 | 11.841 | 5.569 | 9.889 | 1.672 | 6.512 | .247 | 15.0 | 10.102 | 6.177 | 1.211 | 455 |
| 500 | 12 | 285 | 7.162 | 22.128 | 6.906- | 16.721 | 1.900 | 14.494 | .254 | 30.5 | 17.769 | 13.189 | 1.171 | 451 |
| 500 | 03 | 283 | 6.418 | 17.636 | 6.254- | 14.252 | 1.443 | 10.389 | .255 | 19.5 | 14.711 | 9.727 | 1.180 | 461 |
| 500 | 06 | 161 | 0.455 | 13.032 | 0.148 | 10.147 | 0.430- | 8.176 | .125 | 15.0 | 10.287 | 8.000 | 1.123 | 460 |
| 500 | 09 | 346 | 1.309 | 15.546 | 0.327- | 12.029 | 1.268 | 9.848 | .188 | 21.5 | 12.387 | 9.395 | 1.176 | 455 |
| 300 | 12 | 282 | 29.890 | 37.292 | 29.186- | 24.993 | 6.448 | 27.677 | .200 | 58.0 | 29.168 | 23.236 | 1.201 | 450 |
| 300 | 03 | 271 | 28.706 | 33.636 | 28.698- | 26.781 | 0.645 | 20.350 | .326 | 25.0 | 28.267 | 18.230 | 1.311 | 429 |
| 300 | 06 | 258 | 14.398 | 20.904 | 14.102- | 15.355 | 2.901- | 14.183 | .115 | 27.5 | 15.775 | 13.715 | 1.226 | 368 |
| 300 | 09 | 269 | 16.678 | 25.186 | 16.675- | 19.500 | 0.330- | 15.940 | .283 | 27.0 | 20.625 | 14.455 | 1.218 | 364 |
| 200 | 12 | 285 | 43.511 | 39.698 | 41.985- | 29.021 | 11.423 | 27.086 | .274 | 38.0 | 31.803 | 23.759 | 1.255 | 451 |
| 200 | 03 | 273 | 46.130 | 40.662 | 46.063- | 32.147 | 2.496 | 24.899 | .236 | 21.5 | 33.272 | 23.374 | 1.381 | 429 |
| 200 | 06 | 262 | 25.460 | 28.533 | 25.203- | 21.437 | 3.610- | 18.830 | .115 | 21.0 | 21.838 | 18.364 | 1.253 | 366 |
| 200 | 09 | 266 | 28.617 | 30.565 | 28.548- | 24.252 | 1.990- | 18.603 | .328 | 25.5 | 25.661 | 16.605 | 1.295 | 364 |

## Iwo Jima

| P | J | $\bar{\theta}$ | $\bar{M}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 276 | 7.508 | 16.449 | 7.470- | 12.973 | 0.756 | 10.112 | .042 | 5.0 | 12.994 | 10.086 | 1.201 | 362 |
| 850 | 03 | 237 | 7.925 | 13.456 | 6.677- | 10.500 | 4.268- | 8.415 | .066 | 8.5 | 10.536 | 8.370 | 1.221 | 295 |
| 850 | 06 | 178 | 6.040 | 14.755 | 0.172 | 11.379 | 6.037- | 9.394 | .086 | 12.0 | 11.470 | 9.282 | 1.187 | 282 |
| 850 | 09 | 126 | 5.110 | 14.159 | 4.128 | 10.479 | 3.012- | 9.521 | .035 | 10.0 | 10.506 | 9.492 | 1.184 | 261 |
| 700 | 12 | 267 | 24.194 | 19.876 | 24.167- | 15.550 | 1.145- | 12.379 | .108 | 12.5 | 15.703 | 12.185 | 1.436 | 451 |
| 700 | 03 | 260 | 16.538 | 15.298 | 16.285- | 12.211 | 2.879- | 9.215 | .014 | 1.5 | 12.211 | 9.215 | 1.380 | 460 |
| 700 | 06 | 201 | 4.356 | 15.213 | 1.542- | 11.628 | 4.074- | 9.809 | .130 | 18.5 | 11.843 | 9.549 | 1.148 | 460 |
| 700 | 09 | 203 | 3.439 | 16.977 | 1.348- | 13.424 | 3.164- | 10.392 | .071- | 172.0 | 13.474 | 10.327 | 1.175 | 455 |
| 500 | 12 | 269 | 46.762 | 26.353 | 46.756- | 20.417 | 0.716- | 16.662 | .001- | 179.0 | 20.417 | 16.662 | 1.457 | 451 |
| 500 | 03 | 265 | 30.556 | 23.057 | 30.442- | 19.989 | 2.645- | 11.491 | .025 | 1.5 | 19.994 | 11.482 | 1.776 | 441 |
| 500 | 06 | 220 | 3.138 | 16.132 | 2.016- | 12.590 | 2.404- | 10.087 | .080 | 10.0 | 12.655 | 10.005 | 1.154 | 460 |
| 500 | 09 | 249 | 7.282 | 20.154 | 6.815- | 16.519 | 2.565- | 11.546 | .045- | 176.0 | 16.535 | 11.523 | 1.232 | 453 |
| 300 | 12 | 268 | 65.455 | 30.488 | 65.413- | 23.592 | 2.349- | 19.312 | .060 | 8.5 | 23.685 | 19.197 | 1.598 | 424 |
| 300 | 03 | 272 | 46.112 | 31.710 | 46.071- | 27.019 | 1.958 | 16.599 | .013 | 1.0 | 27.018 | 16.599 | 1.699 | 428 |
| 300 | 06 | 341 | 0.948 | 18.288 | 0.307- | 14.182 | 0.896 | 11.546 | .104 | 13.5 | 14.325 | 11.367 | 1.133 | 368 |
| 300 | 09 | 267 | 14.552 | 27.385 | 14.526- | 23.174 | 0.855- | 14.591 | .093- | 174.0 | 23.241 | 14.483 | 1.322 | 364 |
| 200 | 12 | 269 | 68.803 | 33.662 | 68.778- | 26.173 | 1.840- | 21.170 | .075 | 9.5 | 26.315 | 20.993 | 1.589 | 449 |
| 200 | 03 | 275 | 55.356 | 38.817 | 55.149- | 32.450 | 4.789 | 21.301 | .082 | 5.5 | 32.536 | 21.170 | 1.615 | 424 |
| 200 | 06 | 028 | 5.788 | 25.027 | 2.735 | 20.167 | 5.101 | 14.820 | .195 | 16.0 | 20.577 | 14.246 | 1.156 | 368 |
| 200 | 09 | 280 | 14.741 | 33.776 | 14.511- | 28.864 | 2.595 | 17.541 | .019- | 178.5 | 28.864 | 17.541 | 1.289 | 363 |

## Johnston Island

| P | J | $\bar{\theta}$ | $\bar{M}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 099 | 11.035 | 14.712 | 10.888 | 11.774 | 1.793- | 8.822 | .022 | 2.0 | 11.782 | 8.812 | 1.205 | 366 |
| 850 | 03 | 087 | 13.471 | 10.897 | 13.450 | 8.665 | 0.753 | 6.608 | .118 | 11.5 | 8.746 | 6.501 | 1.264 | 387 |
| 850 | 06 | 089 | 14.539 | 9.150 | 14.535 | 6.977 | 0.341 | 5.920 | .027 | 4.5 | 6.987 | 5.909 | 1.317 | 361 |
| 850 | 09 | 085 | 15.427 | 9.412 | 15.361 | 7.788 | 1.423 | 5.284 | .061- | 175.0 | 7.802 | 5.264 | 1.340 | 405 |
| 700 | 12 | 083 | 3.653 | 16.107 | 3.622 | 13.683 | 0.476 | 8.497 | .175 | 10.0 | 13.812 | 8.286 | 1.139 | 452 |
| 700 | 03 | 070 | 4.692 | 12.461 | 4.417 | 10.551 | 1.581 | 6.631 | .035 | 2.0 | 10.554 | 6.626 | 1.151 | 459 |
| 700 | 06 | 087 | 8.222 | 9.616 | 8.214 | 7.439 | 0.364 | 6.093 | .009 | 1.5 | 7.439 | 6.093 | 1.238 | 460 |
| 700 | 09 | 079 | 8.957 | 10.502 | 8.797 | 8.435 | 1.685 | 6.257 | .003 | 0.5 | 8.434 | 6.258 | 1.261 | 454 |
| 500 | 12 | 318 | 7.589 | 21.645 | 5.032- | 16.492 | 5.681 | 14.019 | .088 | 14.0 | 16.652 | 13.829 | 1.179 | 450 |
| 500 | 03 | 307 | 6.667 | 17.205 | 5.358- | 14.024 | 3.968 | 9.967 | .129 | 10.0 | 14.142 | 9.799 | 1.179 | 457 |
| 500 | 06 | 084 | 2.410 | 11.837 | 2.395 | 9.616 | 0.268 | 6.903 | .113 | 9.5 | 9.680 | 6.813 | 1.168 | 459 |
| 500 | 09 | 071 | 4.781 | 14.263 | 4.518 | 11.383 | 1.561 | 8.594 | .038 | 4.0 | 11.400 | 8.573 | 1.205 | 455 |
| 300 | 12 | 293 | 23.948 | 34.576 | 21.995- | 24.732 | 9.472 | 24.163 | .207 | 42.0 | 26.879 | 21.750 | 1.258 | 445 |
| 300 | 03 | 282 | 31.968 | 32.168 | 31.288- | 25.424 | 6.558 | 19.707 | .320 | 25.5 | 26.899 | 17.641 | 1.338 | 426 |
| 300 | 06 | 267 | 11.561 | 19.716 | 11.542- | 15.092 | 0.675- | 12.687 | .267 | 28.5 | 15.989 | 11.536 | 1.220 | 367 |
| 300 | 09 | 275 | 10.268 | 23.584 | 10.222- | 18.636 | 0.965 | 14.453 | .298 | 24.5 | 19.600 | 13.116 | 1.189 | 363 |
| 200 | 12 | 288 | 31.658 | 36.019 | 30.187- | 27.978 | 9.539 | 22.684 | .306 | 27.5 | 29.749 | 20.306 | 1.270 | 449 |
| 200 | 03 | 278 | 47.988 | 38.440 | 47.539- | 30.105 | 6.552 | 23.902 | .334 | 27.5 | 32.127 | 21.106 | 1.372 | 424 |
| 200 | 06 | 267 | 20.316 | 25.615 | 20.286- | 18.845 | 1.095- | 17.349 | .177 | 32.5 | 19.791 | 16.262 | 1.258 | 368 |
| 200 | 09 | 266 | 17.905 | 28.772 | 17.871- | 21.728 | 1.102- | 18.861 | .224 | 29.0 | 22.874 | 17.453 | 1.264 | 364 |

## Koror, Caroline Islands

| P | J | $\bar{\theta}$ | $\bar{M}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 079 | 14.112 | 14.036 | 13.871 | 11.645 | 2.596 | 7.836 | .261 | 16.5 | 11.940 | 7.378 | 1.219 | 423 |
| 850 | 03 | 080 | 10.872 | 10.642 | 10.706 | 8.343 | 1.889 | 6.607 | .188 | 19.5 | 8.556 | 6.329 | 1.229 | 441 |
| 850 | 06 | 197 | 2.608 | 14.910 | 0.784- | 12.868 | 2.487- | 7.531 | .164 | 8.0 | 12.956 | 7.378 | 1.204 | 402 |
| 850 | 09 | 227 | 2.327 | 15.451 | 1.708- | 12.794 | 1.581- | 8.663 | .254 | 16.5 | 13.112 | 8.174 | 1.186 | 418 |
| 700 | 12 | 087 | 13.142 | 13.473 | 13.120 | 11.264 | 0.746 | 7.392 | .264 | 15.5 | 11.535 | 6.961 | 1.244 | 320 |
| 700 | 03 | 086 | 9.475 | 10.357 | 9.454 | 8.395 | 0.620 | 6.065 | .045 | 4.0 | 8.405 | 6.052 | 1.249 | 372 |
| 700 | 06 | 116 | 3.725 | 14.167 | 3.338 | 12.201 | 1.652- | 7.199 | .042 | 2.0 | 12.207 | 7.188 | 1.132 | 344 |
| 700 | 09 | 121 | 2.190 | 15.101 | 1.871 | 12.879 | 1.138- | 7.884 | .144 | 8.0 | 12.959 | 7.753 | 1.199 | 338 |
| 500 | 12 | 094 | 16.532 | 13.679 | 16.495 | 11.688 | 1.107- | 7.107 | .015 | 1.0 | 11.688 | 7.107 | 1.384 | 212 |
| 500 | 03 | 086 | 10.833 | 11.842 | 10.806 | 10.034 | 0.764 | 6.288 | .047- | 177.0 | 10.041 | 6.277 | 1.377 | 282 |
| 500 | 06 | 103 | 11.516 | 12.232 | 11.216 | 9.266 | 2.610- | 7.985 | .012 | 2.5 | 9.265 | 7.986 | 1.223 | 221 |
| 500 | 09 | 095 | 9.346 | 13.439 | 9.303 | 11.040 | 0.891- | 7.663 | .191 | 13.5 | 11.218 | 7.401 | 1.229 | 223 |
| 300 | 12 | 099 | 14.133 | 11.187 | 13.946 | 8.191 | 2.293- | 7.619 | .078 | 23.5 | 8.318 | 7.480 | 1.353 | 145 |
| 300 | 03 | 102 | 7.909 | 12.523 | 7.739 | 9.834 | 1.627- | 7.754 | .117 | 13.0 | 9.941 | 7.617 | 1.175 | 226 |
| 300 | 06 | 087 | 13.014 | 15.542 | 13.001 | 13.149 | 0.581 | 8.286 | .115 | 7.0 | 13.205 | 8.197 | 1.310 | 160 |
| 300 | 09 | 088 | 12.919 | 12.941 | 12.914 | 10.454 | 0.361 | 7.628 | .025 | 2.0 | 10.459 | 7.620 | 1.332 | 148 |
| 200 | 12 | 113 | 18.125 | 14.781 | 16.720 | 10.939 | 6.998- | 9.941 | .300- | 144.0 | 11.979 | 8.660 | 1.513 | 131 |
| 200 | 03 | 121 | 9.738 | 16.407 | 8.328 | 13.047 | 5.047- | 9.947 | .039 | 4.0 | 13.066 | 9.922 | 1.190 | 206 |
| 200 | 06 | 070 | 14.591 | 22.255 | 13.737 | 17.736 | 4.920 | 13.443 | .205 | 18.0 | 18.179 | 12.837 | 1.288 | 144 |
| 200 | 09 | 080 | 16.302 | 19.550 | 16.036 | 14.468 | 2.934 | 13.149 | .024- | 173.0 | 14.498 | 13.115 | 1.257 | 128 |

## Kwajalein, Marshall Is.

| P | J | $\bar{\theta}$ | $\bar{M}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 088 | 16.577 | 11.444 | 16.566 | 9.144 | 0.618 | 6.882 | .090 | 9.0 | 9.190 | 6.820 | 1.429 | 509 |
| 850 | 03 | 090 | 16.063 | 11.014 | 16.063 | 8.774 | 0.042- | 6.657 | .158 | 14.5 | 8.912 | 6.472 | 1.333 | 515 |
| 850 | 06 | 096 | 13.707 | 8.948 | 13.634 | 7.335 | 1.417- | 5.126 | .077 | 6.0 | 7.355 | 5.097 | 1.486 | 540 |
| 850 | 09 | 098 | 11.231 | 9.483 | 11.111 | 7.547 | 1.642- | 5.742 | .145 | 14.0 | 7.649 | 5.606 | 1.378 | 530 |
| 700 | 12 | 093 | 12.016 | 11.791 | 11.996 | 9.896 | 0.694- | 6.411 | .024 | 1.5 | 9.899 | 6.406 | 1.377 | 503 |
| 700 | 03 | 099 | 7.772 | 11.008 | 7.680 | 8.997 | 1.195- | 6.342 | .006- | 179.5 | 8.997 | 6.342 | 1.264 | 506 |
| 700 | 06 | 097 | 13.497 | 9.021 | 13.392 | 7.349 | 1.683- | 5.231 | .006- | 179.5 | 7.350 | 5.230 | 1.528 | 540 |
| 700 | 09 | 098 | 10.763 | 9.387 | 10.670 | 7.338 | 1.412- | 5.855 | .037 | 4.5 | 7.344 | 5.847 | 1.347 | 524 |
| 500 | 12 | 086 | 14.077 | 16.555 | 14.039 | 14.132 | 1.035 | 8.622 | .091 | 5.0 | 14.165 | 8.567 | 1.287 | 484 |
| 500 | 03 | 077 | 4.099 | 14.437 | 3.997 | 12.255 | 0.908 | 7.632 | .097 | 5.5 | 12.290 | 7.576 | 1.208 | 467 |
| 500 | 06 | 095 | 10.666 | 10.824 | 10.627 | 8.664 | 0.909- | 6.489 | .042- | 176.0 | 8.674 | 6.475 | 1.312 | 486 |
| 500 | 09 | 092 | 9.874 | 12.689 | 9.867 | 10.461 | 0.358- | 7.181 | .110 | 8.0 | 10.517 | 7.100 | 1.334 | 507 |
| 300 | 12 | 185 | 0.132 | 18.503 | 0.012- | 15.788 | 0.131- | 9.649 | .000 | 0.0 | 15.788 | 9.649 | 1.170 | 447 |
| 300 | 03 | 265 | 10.779 | 18.928 | 10.743- | 14.381 | 0.889- | 12.307 | .143 | 21.0 | 14.713 | 11.908 | 1.221 | 410 |
| 300 | 06 | 114 | 2.354 | 14.885 | 2.143 | 12.295 | 0.974- | 8.389 | .022 | 1.5 | 12.301 | 8.381 | 1.145 | 412 |
| 300 | 09 | 088 | 1.402 | 16.114 | 1.401 | 13.074 | 0.045 | 9.419 | .027 | 2.5 | 13.081 | 9.409 | 1.173 | 459 |
| 200 | 12 | 244 | 3.872 | 21.413 | 3.486- | 17.816 | 1.685- | 11.879 | .025 | 1.5 | 17.822 | 11.869 | 1.198 | 423 |
| 200 | 03 | 256 | 14.787 | 22.140 | 14.337- | 16.682 | 3.621- | 14.557 | .035- | 173.0 | 16.708 | 14.527 | 1.268 | 360 |
| 200 | 06 | 232 | 1.892 | 18.170 | 1.495- | 14.792 | 1.159- | 10.553 | .070- | 174.5 | 14.829 | 10.500 | 1.200 | 373 |
| 200 | 09 | 264 | 3.572 | 20.322 | 3.554- | 16.044 | 0.358- | 12.473 | .018- | 178.0 | 16.043 | 12.474 | 1.198 | 435 |

## Marcus Island

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 267 | 21.250 | 15.550 | 21.230- | 12.750 | 0.928- | 8.901 | .122 | 9.5 | 12.838 | 8.773 | 1.471 | 451 |
| 700 | 03 | 264 | 11.944 | 15.903 | 11.882- | 13.070 | 1.216- | 9.060 | .070 | 5.5 | 13.099 | 9.017 | 1.282 | 460 |
| 700 | 06 | 196 | 3.460 | 13.077 | 0.950- | 10.586 | 3.327- | 7.678 | .038 | 3.5 | 10.591 | 7.670 | 1.120 | 460 |
| 700 | 09 | 191 | 2.730 | 14.658 | 0.500- | 11.599 | 2.684- | 8.962 | .009 | 1.0 | 11.601 | 8.961 | 1.116 | 455 |
| 500 | 12 | 269 | 37.781 | 24.071 | 37.767- | 19.885 | 1.020- | 13.564 | .113 | 8.0 | 19.995 | 13.401 | 1.516 | 452 |
| 500 | 03 | 269 | 22.693 | 20.677 | 22.693- | 17.329 | 0.208- | 11.282 | .003- | 179.5 | 17.328 | 11.283 | 1.545 | 436 |
| 500 | 06 | 217 | 2.341 | 13.517 | 1.398- | 10.917 | 1.878- | 7.971 | .024 | 2.0 | 10.923 | 7.963 | 1.130 | 460 |
| 500 | 09 | 256 | 6.485 | 17.656 | 6.285- | 14.501 | 1.600- | 10.074 | .032- | 177.0 | 14.507 | 10.065 | 1.214 | 453 |
| 300 | 12 | 271 | 57.367 | 28.254 | 57.364- | 23.137 | 0.551 | 16.215 | .098 | 7.5 | 23.248 | 16.057 | 1.743 | 419 |
| 300 | 03 | 273 | 39.589 | 29.889 | 39.533- | 25.658 | 2.109 | 15.329 | .024- | 178.0 | 25.666 | 15.317 | 1.655 | 428 |
| 300 | 06 | 319 | 2.383 | 18.383 | 1.575- | 13.822 | 1.788 | 12.119 | .121- | 158.0 | 14.111 | 11.781 | 1.141 | 368 |
| 300 | 09 | 274 | 11.674 | 25.643 | 11.644- | 22.002 | 0.832 | 13.171 | .069 | 3.5 | 22.033 | 13.119 | 1.294 | 364 |
| 200 | 12 | 272 | 64.480 | 33.036 | 64.437- | 26.391 | 2.368 | 19.872 | .126 | 12.0 | 26.654 | 19.518 | 1.694 | 447 |
| 200 | 03 | 274 | 51.417 | 37.989 | 51.279- | 32.260 | 3.767 | 20.061 | .000 | 0.0 | 32.261 | 20.061 | 1.618 | 423 |
| 200 | 06 | 018 | 5.332 | 25.666 | 1.624 | 20.335 | 5.079 | 15.659 | .039- | 175.0 | 20.365 | 15.621 | 1.110 | 368 |
| 200 | 09 | 285 | 12.249 | 29.710 | 11.843- | 25.001 | 3.125 | 16.051 | .015- | 178.5 | 25.000 | 16.051 | 1.236 | 363 |

## Midway Island

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 258 | 9.097 | 21.749 | 8.895- | 17.594 | 1.907- | 12.785 | .172 | 14.0 | 17.868 | 12.399 | 1.185 | 391 |
| 850 | 03 | 224 | 1.967 | 15.033 | 1.366- | 11.780 | 1.415- | 9.339 | .121 | 13.5 | 11.918 | 9.162 | 1.149 | 375 |
| 850 | 06 | 117 | 5.634 | 12.928 | 5.036 | 10.631 | 2.527- | 7.356 | .127 | 9.5 | 10.708 | 7.243 | 1.143 | 420 |
| 850 | 09 | 094 | 1.864 | 14.352 | 1.859 | 11.385 | 0.137- | 8.738 | .129 | 13.0 | 11.513 | 8.568 | 1.172 | 419 |
| 700 | 12 | 264 | 17.390 | 24.130 | 17.304- | 19.618 | 1.726- | 14.050 | .077 | 6.5 | 19.678 | 13.965 | 1.255 | 451 |
| 700 | 03 | 264 | 7.580 | 17.392 | 7.537- | 13.440 | 0.807- | 11.038 | .141 | 18.0 | 13.689 | 10.727 | 1.225 | 459 |
| 700 | 06 | 102 | 3.767 | 13.783 | 3.684 | 11.239 | 0.783- | 7.979 | .112 | 9.0 | 11.309 | 7.879 | 1.136 | 460 |
| 700 | 09 | 336 | 1.440 | 16.642 | 0.585- | 13.232 | 1.316 | 10.093 | .090 | 9.0 | 13.305 | 9.997 | 1.172 | 455 |
| 500 | 12 | 269 | 31.589 | 32.330 | 31.585- | 25.599 | 0.476- | 19.747 | .113 | 11.5 | 25.831 | 19.443 | 1.324 | 450 |
| 500 | 03 | 273 | 16.048 | 22.177 | 16.025- | 17.594 | 0.850 | 13.501 | .093 | 9.5 | 17.701 | 13.360 | 1.305 | 460 |
| 500 | 06 | 345 | 1.476 | 16.037 | 0.389- | 13.067 | 1.423 | 9.297 | .072 | 6.0 | 13.102 | 9.248 | 1.158 | 460 |
| 500 | 09 | 295 | 5.307 | 21.752 | 4.823- | 16.458 | 2.215 | 14.223 | .058 | 11.0 | 16.538 | 14.130 | 1.225 | 455 |
| 300 | 12 | 275 | 53.749 | 41.959 | 53.543- | 31.165 | 4.693 | 28.095 | .106 | 23.0 | 31.791 | 27.385 | 1.334 | 427 |
| 300 | 03 | 285 | 28.812 | 36.761 | 27.783- | 27.787 | 7.630 | 24.067 | .492 | 37.0 | 31.920 | 18.233 | 1.642 | 429 |
| 300 | 06 | 337 | 5.942 | 23.435 | 2.291- | 18.137 | 5.482 | 14.840 | .125 | 16.0 | 18.400 | 14.513 | 1.178 | 368 |
| 300 | 09 | 302 | 11.778 | 31.335 | 9.946- | 24.226 | 6.310 | 19.874 | .107 | 14.0 | 24.493 | 19.544 | 1.198 | 364 |
| 200 | 12 | 276 | 60.417 | 42.141 | 60.129- | 30.392 | 5.901 | 29.191 | .166 | 38.0 | 32.244 | 27.131 | 1.314 | 447 |
| 200 | 03 | 288 | 37.323 | 40.932 | 35.418- | 32.652 | 11.770 | 24.683 | .145 | 13.5 | 33.081 | 24.105 | 1.319 | 427 |
| 200 | 06 | 339 | 9.241 | 29.732 | 3.389- | 22.756 | 8.597 | 19.136 | .221 | 26.0 | 23.767 | 17.865 | 1.169 | 366 |
| 200 | 09 | 303 | 14.129 | 36.543 | 11.814- | 28.898 | 7.749 | 22.366 | .113 | 12.0 | 29.163 | 22.019 | 1.185 | 364 |

## Okinawa I.

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 295 | 6.175 | 16.095 | 5.593- | 10.986 | 2.617 | 11.762 | .013 | 84.5 | 11.769 | 10.978 | 1.190 | 405 |
| 850 | 03 | 262 | 8.754 | 15.907 | 8.662- | 11.691 | 1.265- | 10.787 | .105 | 26.5 | 11.970 | 10.477 | 1.201 | 389 |
| 850 | 06 | 214 | 6.353 | 17.362 | 3.526- | 13.002 | 5.284- | 11.505 | .156 | 26.0 | 13.435 | 10.997 | 1.192 | 335 |
| 850 | 09 | 055 | 2.432 | 13.890 | 1.992 | 9.712 | 1.396 | 9.930 | .098 | 51.5 | 10.307 | 9.311 | 1.184 | 324 |
| 700 | 12 | 273 | 25.888 | 17.143 | 25.850- | 12.817 | 1.392 | 11.385 | .023- | 174.5 | 12.831 | 11.370 | 1.403 | 451 |
| 700 | 03 | 265 | 22.357 | 15.867 | 22.277- | 11.914 | 1.897- | 10.480 | .083 | 16.5 | 12.044 | 10.330 | 1.450 | 460 |
| 700 | 06 | 227 | 7.757 | 18.759 | 5.646- | 15.257 | 5.320- | 10.916 | .117 | 9.5 | 15.364 | 10.765 | 1.198 | 460 |
| 700 | 09 | 257 | 6.822 | 16.394 | 6.660- | 13.024 | 1.478- | 9.957 | .010 | 1.0 | 13.025 | 9.956 | 1.213 | 454 |
| 500 | 12 | 269 | 51.236 | 22.962 | 51.225- | 17.298 | 1.047- | 15.100 | .023- | 175.0 | 17.314 | 15.082 | 1.478 | 451 |
| 500 | 03 | 267 | 35.322 | 21.582 | 35.281- | 17.753 | 1.705- | 12.271 | .039 | 3.0 | 17.765 | 12.253 | 1.636 | 451 |
| 500 | 06 | 240 | 8.410 | 19.159 | 7.281- | 15.984 | 4.210- | 10.563 | .072 | 5.0 | 16.016 | 10.515 | 1.238 | 460 |
| 500 | 09 | 257 | 16.577 | 21.133 | 16.140- | 17.768 | 3.781- | 11.441 | .046 | 3.0 | 17.781 | 11.420 | 1.389 | 455 |
| 300 | 12 | 266 | 78.694 | 32.329 | 78.521- | 26.888 | 5.211- | 17.950 | .001- | 180.0 | 26.888 | 17.950 | 1.818 | 426 |
| 300 | 03 | 267 | 56.136 | 32.191 | 56.040- | 27.508 | 3.277- | 16.722 | .080 | 4.5 | 27.560 | 16.637 | 1.850 | 430 |
| 300 | 06 | 249 | 9.014 | 25.597 | 8.431- | 21.704 | 3.188- | 13.570 | .271 | 14.5 | 22.177 | 12.783 | 1.280 | 368 |
| 300 | 09 | 262 | 28.157 | 32.623 | 27.877- | 28.606 | 3.960- | 15.683 | .114 | 5.0 | 28.686 | 15.537 | 1.302 | 362 |
| 200 | 12 | 265 | 83.520 | 36.405 | 83.204- | 29.313 | 7.254- | 21.590 | .034- | 177.0 | 29.334 | 21.562 | 1.664 | 448 |
| 200 | 03 | 264 | 67.773 | 38.453 | 67.392- | 31.552 | 7.174- | 21.980 | .187 | 13.5 | 32.042 | 21.260 | 1.832 | 423 |
| 200 | 06 | 247 | 7.824 | 33.397 | 7.214- | 26.832 | 3.030- | 19.883 | .339 | 24.0 | 28.301 | 17.729 | 1.252 | 368 |
| 200 | 09 | 259 | 32.189 | 37.439 | 31.558- | 32.008 | 6.339- | 19.422 | .323 | 16.0 | 32.890 | 17.888 | 1.439 | 364 |

## Truk, Caroline Islands

| P | J | $\bar{\theta}$ | $\lvert\bar{V}\rvert$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 082 | 15.379 | 11.268 | 15.231 | 9.105 | 2.132 | 6.640 | .154 | 13.0 | 9.220 | 6.478 | 1.322 | 318 |
| 850 | 03 | 087 | 12.916 | 9.716 | 12.893 | 7.490 | 0.768 | 6.188 | .209 | 24.0 | 7.771 | 5.831 | 1.431 | 355 |
| 850 | 06 | 101 | 8.245 | 11.173 | 8.081 | 9.425 | 1.637- | 6.000 | .063 | 4.0 | 9.438 | 5.980 | 1.207 | 328 |
| 850 | 09 | 106 | 5.576 | 10.621 | 5.348 | 8.418 | 1.579- | 6.477 | .102 | 10.5 | 8.483 | 6.392 | 1.252 | 330 |
| 700 | 12 | 088 | 12.206 | 12.027 | 12.197 | 10.232 | 0.477 | 6.322 | .087 | 5.0 | 10.257 | 6.282 | 1.279 | 287 |
| 700 | 03 | 093 | 9.304 | 9.929 | 9.289 | 8.224 | 0.532- | 5.564 | .000 | 0.0 | 8.224 | 5.564 | 1.344 | 341 |
| 700 | 06 | 101 | 10.828 | 10.473 | 10.630 | 8.732 | 2.058- | 5.782 | .175 | 11.5 | 8.833 | 5.626 | 1.226 | 310 |
| 700 | 09 | 100 | 7.647 | 10.603 | 7.524 | 8.025 | 1.368- | 6.929 | .054 | 10.0 | 8.060 | 6.888 | 1.261 | 298 |
| 500 | 12 | 093 | 17.184 | 15.224 | 17.153 | 12.927 | 1.032- | 8.040 | .087 | 5.0 | 12.960 | 7.987 | 1.378 | 262 |
| 500 | 03 | 090 | 7.287 | 13.301 | 7.286 | 11.111 | 0.035 | 7.313 | .043 | 3.0 | 11.119 | 7.301 | 1.223 | 322 |
| 500 | 06 | 098 | 11.725 | 11.172 | 11.613 | 8.849 | 1.614- | 6.819 | .052 | 5.5 | 8.869 | 6.794 | 1.309 | 288 |
| 500 | 09 | 099 | 11.353 | 11.869 | 11.228 | 9.156 | 1.680- | 7.553 | .065 | 9.5 | 9.193 | 7.508 | 1.302 | 275 |
| 300 | 12 | 102 | 10.173 | 14.543 | 9.968 | 11.306 | 2.032- | 9.147 | .106- | 166.5 | 11.416 | 9.009 | 1.201 | 247 |
| 300 | 03 | 136 | 2.162 | 16.264 | 1.512 | 13.536 | 1.545- | 9.017 | .021- | 178.5 | 13.536 | 9.017 | 1.136 | 297 |
| 300 | 06 | 108 | 7.645 | 13.993 | 7.265 | 10.914 | 2.382- | 8.757 | .059 | 7.5 | 10.952 | 8.710 | 1.136 | 258 |
| 300 | 09 | 094 | 8.979 | 12.963 | 8.957 | 9.930 | 0.629- | 8.332 | .062 | 10.0 | 9.976 | 8.277 | 1.208 | 262 |
| 200 | 12 | 123 | 12.275 | 17.262 | 10.303 | 13.653 | 6.673- | 10.563 | .215- | 160.0 | 14.062 | 10.012 | 1.253 | 240 |
| 200 | 03 | 190 | 5.245 | 20.512 | 0.921- | 16.927 | 5.163- | 11.585 | .165- | 168.5 | 17.119 | 11.300 | 1.151 | 288 |
| 200 | 06 | 097 | 5.507 | 20.292 | 5.472 | 14.967 | 0.626- | 13.702 | .065 | 18.0 | 15.108 | 13.547 | 1.149 | 249 |
| 200 | 09 | 081 | 8.743 | 17.768 | 8.647 | 12.064 | 1.293 | 13.044 | .139 | 59.5 | 13.539 | 11.506 | 1.192 | 259 |

## Wake Island

| P | J | $\bar{\theta}$ | $\bar{\|V\|}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 089 | 8.928 | 12.479 | 8.927 | 9.948 | 0.119 | 7.535 | .030 | 3.0 | 9.954 | 7.527 | 1.185 | 406 |
| 850 | 03 | 097 | 12.793 | 9.472 | 12.707 | 7.645 | 1.481- | 5.592 | .097 | 8.5 | 7.687 | 5.534 | 1.280 | 407 |
| 850 | 06 | 097 | 11.252 | 8.870 | 11.177 | 7.240 | 1.298- | 5.125 | .089 | 7.0 | 7.268 | 5.085 | 1.377 | 427 |
| 850 | 09 | 096 | 12.917 | 10.494 | 12.835 | 8.938 | 1.454- | 5.498 | .139 | 7.5 | 8.989 | 5.415 | 1.335 | 398 |
| 700 | 12 | 042 | 2.120 | 15.813 | 1.420 | 12.811 | 1.575 | 9.270 | .164 | 13.0 | 12.990 | 9.018 | 1.122 | 451 |
| 700 | 03 | 093 | 6.719 | 12.354 | 6.710 | 10.504 | 0.336- | 6.503 | .140 | 8.0 | 10.567 | 6.399 | 1.150 | 460 |
| 700 | 06 | 093 | 9.345 | 9.156 | 9.336 | 7.323 | 0.425- | 5.495 | .171 | 15.0 | 7.449 | 5.323 | 1.257 | 460 |
| 700 | 09 | 093 | 9.280 | 11.653 | 9.271 | 9.813 | 0.416- | 6.286 | .156 | 9.5 | 9.892 | 6.161 | 1.220 | 455 |
| 500 | 12 | 299 | 10.539 | 19.886 | 9.256- | 15.516 | 5.039 | 12.438 | .140 | 16.0 | 15.769 | 12.116 | 1.175 | 451 |
| 500 | 03 | 314 | 4.370 | 16.531 | 3.129- | 14.001 | 3.051 | 8.789 | .044 | 2.5 | 14.009 | 8.775 | 1.163 | 458 |
| 500 | 06 | 086 | 5.205 | 11.956 | 5.192 | 9.434 | 0.360 | 7.345 | .207 | 19.5 | 9.702 | 6.987 | 1.158 | 458 |
| 500 | 09 | 080 | 6.398 | 14.806 | 6.298 | 11.905 | 1.132 | 8.803 | .021 | 2.0 | 11.906 | 8.802 | 1.185 | 454 |
| 300 | 12 | 293 | 26.946 | 28.622 | 24.875- | 21.627 | 10.361 | 18.749 | .052 | 10.0 | 21.720 | 18.641 | 1.364 | 424 |
| 300 | 03 | 291 | 23.173 | 29.157 | 21.620- | 23.444 | 8.342 | 17.335 | .036 | 3.5 | 23.459 | 17.315 | 1.367 | 428 |
| 300 | 06 | 359 | 3.096 | 19.723 | 0.060- | 14.855 | 3.095 | 12.974 | .229 | 29.5 | 15.674 | 11.972 | 1.132 | 367 |
| 300 | 09 | 017 | 4.902 | 22.864 | 1.413 | 16.833 | 4.694 | 15.473 | .031 | 10.5 | 16.877 | 15.425 | 1.171 | 364 |
| 200 | 12 | 286 | 32.363 | 29.212 | 31.120- | 21.817 | 8.882 | 19.426 | .099 | 20.5 | 22.171 | 19.020 | 1.318 | 447 |
| 200 | 03 | 283 | 37.199 | 35.849 | 36.211- | 29.424 | 8.514 | 20.478 | .197 | 14.0 | 29.925 | 19.739 | 1.382 | 426 |
| 200 | 06 | 319 | 8.067 | 29.558 | 5.316- | 23.217 | 6.067 | 18.293 | .228 | 22.0 | 24.034 | 17.205 | 1.139 | 368 |
| 200 | 09 | 337 | 8.186 | 29.135 | 3.134- | 22.060 | 7.562 | 19.031 | .171 | 24.5 | 22.788 | 18.154 | 1.155 | 364 |

## Ocean Station "N" – 32°30'N.- 135°00'W

| P | J | $\bar{\theta}$ | $\bar{\|V\|}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 298 | 3.749 | 20.841 | 3.310- | 15.857 | 1.759 | 13.524 | .225 | 27.5 | 16.624 | 12.569 | 1.153 | 388 |
| 850 | 03 | 346 | 5.705 | 16.815 | 1.419- | 12.641 | 5.526 | 11.089 | .104 | 19.5 | 12.843 | 10.855 | 1.161 | 405 |
| 850 | 06 | 041 | 10.461 | 10.802 | 6.842 | 8.069 | 7.913 | 7.181 | .084 | 18.0 | 8.166 | 7.070 | 1.281 | 398 |
| 850 | 09 | 006 | 4.383 | 15.374 | 0.443 | 11.883 | 4.361 | 9.755 | .167 | 20.0 | 12.178 | 9.384 | 1.164 | 385 |
| 700 | 12 | 291 | 10.405 | 25.896 | 9.743- | 18.941 | 3.652 | 17.658 | .234 | 36.5 | 20.426 | 15.917 | 1.170 | 450 |
| 700 | 03 | 310 | 8.637 | 21.745 | 6.625- | 15.985 | 5.540 | 14.742 | .165 | 32.0 | 16.731 | 13.890 | 1.189 | 460 |
| 700 | 06 | 026 | 7.028 | 13.178 | 3.129 | 9.840 | 6.293 | 8.766 | .127 | 24.0 | 10.083 | 8.485 | 1.181 | 460 |
| 700 | 09 | 311 | 4.818 | 18.797 | 3.648- | 13.870 | 3.148 | 12.688 | .165 | 31.0 | 14.481 | 11.986 | 1.158 | 455 |
| 500 | 12 | 286 | 19.571 | 33.537 | 18.810- | 23.430 | 5.403 | 23.994 | .249 | 47.5 | 26.524 | 20.522 | 1.233 | 452 |
| 500 | 03 | 293 | 16.300 | 27.725 | 15.057- | 19.409 | 6.244 | 19.799 | .086 | 51.5 | 20.455 | 18.716 | 1.226 | 460 |
| 500 | 06 | 305 | 3.897 | 16.927 | 3.197- | 12.465 | 2.228 | 11.452 | .166 | 31.5 | 13.038 | 10.795 | 1.155 | 459 |
| 500 | 09 | 269 | 10.547 | 23.701 | 10.546- | 16.679 | 0.132- | 16.838 | .175 | 46.5 | 18.170 | 15.218 | 1.258 | 455 |
| 300 | 12 | 286 | 33.063 | 45.513 | 31.822- | 31.541 | 8.973 | 32.811 | .303 | 48.0 | 36.773 | 26.817 | 1.230 | 451 |
| 300 | 03 | 284 | 26.906 | 38.603 | 26.149- | 27.658 | 6.339 | 26.930 | .204 | 41.5 | 29.983 | 24.315 | 1.220 | 429 |
| 300 | 06 | 268 | 13.189 | 25.951 | 13.177- | 18.421 | 0.574- | 18.279 | .201 | 44.0 | 20.103 | 16.411 | 1.206 | 368 |
| 300 | 09 | 270 | 20.972 | 34.964 | 20.971- | 23.549 | 0.117 | 25.844 | .160 | 59.5 | 26.917 | 22.315 | 1.220 | 364 |
| 200 | 12 | 283 | 42.157 | 46.404 | 41.057- | 30.954 | 9.568 | 34.571 | .298 | 54.5 | 37.646 | 27.131 | 1.191 | 449 |
| 200 | 03 | 282 | 33.858 | 39.833 | 33.167- | 27.117 | 6.806 | 29.178 | .213 | 54.0 | 31.188 | 24.779 | 1.174 | 429 |
| 200 | 06 | 260 | 21.611 | 30.824 | 21.249- | 22.006 | 3.937- | 21.583 | .248 | 43.0 | 24.365 | 18.879 | 1.205 | 368 |
| 200 | 09 | 267 | 27.421 | 39.388 | 27.385- | 26.901 | 1.408- | 28.771 | .227 | 52.5 | 30.979 | 24.325 | 1.271 | 364 |

## Ocean Station "P" – 50°00'N.- 145°00'W

| P | J | $\bar{\theta}$ | $\bar{\|V\|}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 262 | 18.249 | 29.317 | 18.054- | 19.521 | 2.658- | 21.872 | .083- | 108.0 | 22.136 | 19.221 | 1.134 | 331 |
| 850 | 03 | 255 | 16.477 | 25.441 | 15.910- | 17.177 | 4.283- | 18.766 | .107- | 115.0 | 19.193 | 16.698 | 1.164 | 300 |
| 850 | 06 | 266 | 11.955 | 20.779 | 11.924- | 14.832 | 0.849- | 14.552 | .090- | 141.0 | 15.354 | 14.000 | 1.150 | 307 |
| 850 | 09 | 248 | 18.463 | 26.847 | 17.074- | 17.767 | 7.024- | 20.127 | .071- | 105.0 | 20.297 | 17.573 | 1.180 | 381 |
| 700 | 12 | 268 | 22.936 | 32.633 | 22.927- | 21.226 | 0.634- | 24.786 | .018- | 93.5 | 24.797 | 21.213 | 1.152 | 437 |
| 700 | 03 | 258 | 21.082 | 28.220 | 20.594- | 19.774 | 4.508- | 20.134 | .010- | 105.5 | 20.164 | 19.743 | 1.178 | 473 |
| 700 | 06 | 263 | 17.200 | 23.361 | 17.061- | 14.810 | 2.184- | 18.067 | .067- | 99.5 | 18.149 | 14.710 | 1.139 | 460 |
| 700 | 09 | 249 | 23.397 | 27.180 | 21.817- | 17.937 | 8.451- | 20.422 | .055- | 101.5 | 20.522 | 17.823 | 1.175 | 455 |
| 500 | 12 | 269 | 32.370 | 43.393 | 32.360- | 27.691 | 0.837- | 33.409 | .003- | 90.5 | 33.409 | 27.691 | 1.171 | 451 |
| 500 | 03 | 258 | 29.187 | 38.989 | 28.537- | 27.291 | 6.126- | 27.862 | .050- | 124.0 | 28.315 | 26.820 | 1.183 | 460 |
| 500 | 06 | 266 | 24.117 | 29.970 | 24.057- | 20.218 | 1.698- | 22.122 | .003 | 89.0 | 22.123 | 20.217 | 1.152 | 460 |
| 500 | 09 | 251 | 33.856 | 38.352 | 32.076- | 25.444 | 10.834- | 28.697 | .134- | 114.0 | 29.447 | 24.572 | 1.200 | 455 |
| 300 | 12 | 270 | 42.831 | 49.235 | 42.830- | 30.657 | 0.206- | 38.526 | .025 | 87.0 | 38.547 | 30.630 | 1.176 | 482 |
| 300 | 03 | 262 | 40.550 | 49.637 | 40.109- | 34.526 | 5.969- | 35.662 | .032- | 112.5 | 35.893 | 34.286 | 1.177 | 429 |
| 300 | 06 | 270 | 30.830 | 41.310 | 30.830- | 28.563 | 0.106- | 29.845 | .033- | 109.0 | 30.008 | 28.391 | 1.190 | 368 |
| 300 | 09 | 248 | 45.077 | 52.092 | 41.757- | 34.488 | 16.980- | 39.041 | .107- | 110.5 | 39.727 | 33.695 | 1.214 | 364 |
| 200 | 12 | 269 | 42.052 | 41.196 | 42.039- | 25.468 | 1.040- | 32.380 | .075 | 81.5 | 32.527 | 25.279 | 1.167 | 448 |
| 200 | 03 | 263 | 37.743 | 38.586 | 37.477- | 26.267 | 4.471- | 28.265 | .002 | 89.0 | 28.265 | 26.267 | 1.183 | 429 |
| 200 | 06 | 273 | 29.810 | 38.828 | 29.777- | 25.917 | 1.382 | 28.912 | .063 | 75.0 | 29.134 | 25.667 | 1.157 | 368 |
| 200 | 09 | 250 | 45.372 | 42.904 | 42.608- | 26.775 | 15.595- | 33.524 | .068- | 98.5 | 33.659 | 26.606 | 1.173 | 364 |

## Ocean Station "Q" – 43°00'N.- 167°00'W.

| P | J | $\bar{\theta}$ | $\bar{\|V\|}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 252 | 24.902 | 31.170 | 23.626- | 22.888 | 7.869- | 21.159 | .248- | 144.0 | 24.743 | 18.957 | 1.174 | 72 |
| 850 | 03 | 265 | 22.661 | 23.461 | 22.578- | 15.648 | 1.930- | 17.480 | .091- | 109.5 | 17.733 | 15.361 | 1.174 | 77 |
| 850 | 06 | 232 | 15.812 | 20.803 | 12.543- | 13.299 | 9.627- | 15.997 | .033 | 85.0 | 16.017 | 13.275 | 1.230 | 81 |
| 850 | 09 | 267 | 24.488 | 25.351 | 24.457- | 17.104 | 1.219- | 18.711 | .027 | 81.5 | 18.745 | 17.056 | 1.172 | 78 |
| 700 | 12 | 253 | 25.458 | 27.715 | 24.299- | 20.153 | 7.596- | 19.025 | .007- | 176.0 | 20.158 | 19.020 | 1.215 | 451 |
| 700 | 03 | 261 | 30.124 | 24.822 | 29.711- | 15.952 | 4.974- | 19.017 | .136 | 71.0 | 19.386 | 15.502 | 1.207 | 460 |
| 700 | 06 | 256 | 20.505 | 19.209 | 19.852- | 11.757 | 5.133- | 15.190 | .038- | 94.0 | 15.207 | 11.735 | 1.198 | 460 |
| 700 | 09 | 272 | 29.216 | 23.464 | 29.203- | 16.156 | 0.886 | 17.017 | .081 | 61.0 | 17.376 | 15.769 | 1.230 | 455 |
| 500 | 12 | 253 | 39.254 | 37.373 | 37.538- | 27.436 | 11.477- | 25.378 | .020- | 172.5 | 27.470 | 25.342 | 1.236 | 450 |
| 500 | 03 | 262 | 43.427 | 30.817 | 42.963- | 19.519 | 6.329- | 23.846 | .081 | 79.0 | 23.999 | 19.331 | 1.229 | 460 |
| 500 | 06 | 258 | 27.013 | 24.409 | 26.463- | 15.794 | 5.427- | 18.610 | .070 | 78.5 | 18.725 | 15.658 | 1.249 | 460 |
| 500 | 09 | 270 | 42.492 | 31.714 | 42.492- | 21.637 | 0.046- | 23.187 | .135 | 58.5 | 24.063 | 20.658 | 1.250 | 455 |
| 300 | 12 | 254 | 55.886 | 45.993 | 53.608- | 32.120 | 15.793- | 32.919 | .015 | 73.5 | 32.996 | 32.041 | 1.255 | 450 |
| 300 | 03 | 264 | 59.743 | 41.756 | 59.428- | 25.786 | 6.121- | 32.842 | .060 | 83.0 | 32.935 | 25.666 | 1.217 | 429 |
| 300 | 06 | 265 | 34.160 | 35.180 | 34.035- | 23.560 | 2.923- | 26.126 | .144 | 63.0 | 26.983 | 22.573 | 1.311 | 369 |
| 300 | 09 | 273 | 59.978 | 44.572 | 59.913- | 29.409 | 2.800 | 33.494 | .154 | 65.0 | 34.535 | 28.179 | 1.287 | 363 |
| 200 | 12 | 258 | 57.338 | 44.253 | 56.041- | 31.707 | 12.130- | 30.871 | .063 | 33.5 | 32.356 | 30.191 | 1.261 | 449 |
| 200 | 03 | 266 | 58.449 | 40.674 | 58.302- | 24.171 | 4.144- | 32.713 | .071 | 83.5 | 32.813 | 24.036 | 1.224 | 429 |
| 200 | 06 | 269 | 36.390 | 36.185 | 36.383- | 23.580 | 0.693- | 27.448 | .281 | 59.0 | 29.354 | 21.161 | 1.231 | 368 |
| 200 | 09 | 274 | 61.311 | 44.803 | 61.150- | 29.099 | 4.451 | 34.066 | .100 | 74.0 | 34.488 | 28.597 | 1.238 | 364 |

## Ocean Station "S" — 48°00'N.- 162°00'W.

| P | J | $\bar{\theta}$ | $\|\bar{V}\|$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 268 | 12.890 | 28.515 | 12.885- | 20.234 | 0.351- | 20.091 | .034- | 140.5 | 20.519 | 19.800 | 1.159 | 217 |
| 850 | 03 | 263 | 12.033 | 26.682 | 11.953- | 18.893 | 1.388- | 18.841 | .124- | 135.5 | 20.007 | 17.654 | 1.133 | 209 |
| 850 | 06 | 258 | 7.868 | 21.671 | 7.688- | 15.107 | 1.674- | 15.538 | .093 | 53.5 | 16.051 | 14.561 | 1.209 | 162 |
| 850 | 09 | 265 | 16.223 | 27.040 | 16.151- | 19.503 | 1.516- | 18.730 | .167- | 142.0 | 20.700 | 17.398 | 1.176 | 236 |
| 700 | 12 | 256 | 18.209 | 26.597 | 17.660- | 18.022 | 4.436- | 19.560 | .010- | 93.5 | 19.566 | 18.015 | 1.162 | 451 |
| 700 | 03 | 270 | 14.833 | 26.433 | 14.833- | 18.671 | 0.090 | 18.710 | .036- | 133.5 | 19.029 | 18.346 | 1.168 | 460 |
| 700 | 06 | 274 | 12.478 | 20.357 | 12.444- | 14.027 | 0.922 | 14.754 | .038 | 71.5 | 14.844 | 13.932 | 1.154 | 460 |
| 700 | 09 | 268 | 22.640 | 25.443 | 22.626- | 17.542 | 0.799- | 18.429 | .074- | 118.5 | 18.778 | 17.168 | 1.202 | 455 |
| 500 | 12 | 249 | 28.731 | 34.513 | 26.756- | 25.086 | 10.470- | 23.703 | .015- | 172.5 | 25.111 | 23.677 | 1.242 | 451 |
| 500 | 03 | 266 | 22.750 | 32.508 | 22.703- | 23.403 | 1.463- | 22.562 | .029- | 160.5 | 23.520 | 22.440 | 1.212 | 460 |
| 500 | 06 | 282 | 19.345 | 25.870 | 18.940- | 17.790 | 3.938 | 18.781 | .020 | 79.5 | 18.816 | 17.753 | 1.173 | 460 |
| 500 | 09 | 266 | 36.849 | 31.138 | 36.743- | 20.843 | 2.783- | 23.134 | .068 | 73.5 | 23.346 | 20.605 | 1.271 | 455 |
| 300 | 12 | 248 | 42.237 | 43.970 | 39.088- | 32.413 | 16.002- | 29.710 | .008- | 177.0 | 32.419 | 29.704 | 1.285 | 422 |
| 300 | 03 | 262 | 37.894 | 46.722 | 37.530- | 33.983 | 5.243- | 32.063 | .002 | 1.0 | 33.984 | 32.062 | 1.277 | 429 |
| 300 | 06 | 284 | 32.728 | 37.597 | 31.803- | 27.503 | 7.722 | 25.636 | .029 | 11.0 | 27.576 | 25.557 | 1.277 | 368 |
| 300 | 09 | 264 | 59.869 | 49.936 | 59.504- | 34.491 | 6.597- | 36.110 | .082 | 59.5 | 36.935 | 33.606 | 1.309 | 364 |
| 200 | 12 | 249 | 47.553 | 39.995 | 44.326- | 29.444 | 17.219- | 27.067 | .134- | 151.0 | 30.440 | 25.942 | 1.285 | 447 |
| 200 | 03 | 262 | 39.521 | 40.817 | 39.165- | 29.093 | 5.293- | 28.629 | .099- | 139.5 | 30.285 | 27.365 | 1.227 | 429 |
| 200 | 06 | 282 | 36.689 | 40.310 | 35.902- | 30.165 | 7.558 | 26.737 | .097 | 19.5 | 30.625 | 26.209 | 1.244 | 368 |
| 200 | 09 | 264 | 65.044 | 51.067 | 64.633- | 35.550 | 7.304- | 36.661 | .120 | 52.0 | 38.293 | 33.786 | 1.293 | 364 |

## Ocean Station "U" — 27°40'N.- 145°00'W.

| P | J | $\bar{\theta}$ | $\|\bar{V}\|$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 166 | 1.593 | 18.904 | 0.386 | 14.441 | 1.546- | 12.200 | .195 | 24.5 | 14.975 | 11.538 | 1.139 | 327 |
| 850 | 03 | 067 | 2.470 | 15.383 | 2.276 | 12.117 | 0.961 | 9.477 | .120 | 13.0 | 12.248 | 9.307 | 1.130 | 288 |
| 850 | 06 | 070 | 10.657 | 9.557 | 9.985 | 7.488 | 3.724 | 5.940 | .360 | 28.5 | 8.048 | 5.156 | 1.291 | 205 |
| 850 | 09 | 058 | 6.037 | 12.980 | 5.108 | 9.971 | 3.217 | 8.310 | .159 | 20.5 | 10.216 | 8.007 | 1.134 | 203 |
| 700 | 12 | 256 | 2.828 | 21.764 | 2.743- | 17.283 | 0.688- | 13.227 | .234 | 20.5 | 17.850 | 12.451 | 1.147 | 451 |
| 700 | 03 | 348 | 3.483 | 16.860 | 0.720- | 13.023 | 3.409 | 10.708 | .095 | 13.0 | 13.141 | 10.563 | 1.127 | 459 |
| 700 | 06 | 066 | 8.199 | 12.021 | 7.475 | 9.083 | 3.369 | 7.874 | .332 | 33.5 | 9.908 | 6.807 | 1.172 | 460 |
| 700 | 09 | 038 | 3.079 | 15.974 | 1.905 | 13.050 | 2.419 | 9.213 | .161 | 12.0 | 13.210 | 8.982 | 1.111 | 455 |
| 500 | 12 | 272 | 11.014 | 27.021 | 11.009- | 20.829 | 0.330 | 17.213 | .256 | 26.5 | 21.907 | 15.818 | 1.215 | 478 |
| 500 | 03 | 291 | 9.758 | 21.636 | 9.082- | 16.520 | 3.570 | 13.971 | .090 | 14.0 | 16.679 | 13.780 | 1.200 | 460 |
| 500 | 06 | 280 | 0.677 | 14.639 | 0.666- | 10.876 | 0.119 | 9.799 | .232 | 33.0 | 11.589 | 8.944 | 1.112 | 460 |
| 500 | 09 | 284 | 5.679 | 18.998 | 5.516- | 14.414 | 1.351 | 12.377 | .244 | 29.0 | 15.232 | 11.356 | 1.169 | 428 |
| 300 | 12 | 279 | 24.763 | 36.022 | 24.425- | 27.291 | 4.073 | 23.511 | .341 | 33.0 | 29.796 | 20.242 | 1.232 | 451 |
| 300 | 03 | 281 | 19.915 | 31.932 | 19.564- | 23.668 | 3.719 | 21.437 | .263 | 34.5 | 25.545 | 19.162 | 1.179 | 429 |
| 300 | 06 | 254 | 13.063 | 22.813 | 12.586- | 16.715 | 3.498- | 15.526 | .262 | 37.0 | 18.195 | 13.761 | 1.225 | 367 |
| 300 | 09 | 274 | 16.670 | 28.517 | 16.635- | 20.924 | 1.083 | 19.375 | .352 | 39.0 | 23.517 | 16.129 | 1.210 | 363 |
| 200 | 12 | 282 | 36.397 | 41.192 | 35.649- | 28.897 | 7.343 | 29.356 | .330 | 46.5 | 33.597 | 23.833 | 1.203 | 450 |
| 200 | 03 | 275 | 29.498 | 35.730 | 29.368- | 25.933 | 2.772 | 24.577 | .233 | 38.5 | 28.122 | 22.039 | 1.201 | 429 |
| 200 | 06 | 249 | 20.127 | 28.936 | 18.810- | 21.213 | 7.161- | 19.680 | .175 | 33.5 | 22.320 | 18.416 | 1.208 | 369 |
| 200 | 09 | 270 | 22.941 | 31.449 | 22.941- | 23.349 | 0.060 | 21.068 | .212 | 32.0 | 24.711 | 19.453 | 1.210 | 364 |

## Ocean Station "V" — 31°00'N.- 164°00'W.

| P | J | $\bar{\theta}$ | $\|\bar{V}\|$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 12 | 262 | 22.953 | 22.746 | 22.740- | 16.570 | 3.119- | 15.583 | .126 | 32.0 | 17.173 | 14.916 | 1.334 | 190 |
| 850 | 03 | 245 | 13.779 | 21.807 | 12.484- | 15.817 | 5.832- | 15.011 | .132 | 34.0 | 16.480 | 14.280 | 1.236 | 159 |
| 850 | 06 | 237 | 8.832 | 17.409 | 7.402- | 13.791 | 4.819- | 10.624 | .029 | 3.0 | 13.800 | 10.613 | 1.181 | 136 |
| 850 | 09 | 252 | 5.464 | 19.081 | 5.187- | 14.510 | 1.718- | 12.392 | .242 | 28.5 | 15.303 | 11.398 | 1.173 | 150 |
| 700 | 12 | 266 | 33.786 | 21.640 | 33.687- | 16.343 | 2.591- | 14.185 | .183 | 26.0 | 16.971 | 13.428 | 1.411 | 450 |
| 700 | 03 | 258 | 23.945 | 21.295 | 23.456- | 15.949 | 4.817- | 14.110 | .192 | 28.5 | 16.678 | 13.240 | 1.390 | 460 |
| 700 | 06 | 252 | 9.855 | 16.189 | 9.386- | 12.942 | 3.002- | 9.725 | .105- | 170.0 | 13.032 | 9.604 | 1.186 | 460 |
| 700 | 09 | 259 | 13.899 | 19.782 | 13.660- | 15.439 | 2.568- | 12.368 | .164 | 18.0 | 15.771 | 11.942 | 1.219 | 388 |
| 500 | 12 | 266 | 55.353 | 31.012 | 55.232- | 22.702 | 3.651- | 21.128 | .131 | 30.5 | 23.509 | 20.226 | 1.413 | 451 |
| 500 | 03 | 263 | 37.131 | 27.984 | 36.833- | 21.753 | 4.695- | 17.604 | .249 | 24.5 | 22.742 | 16.306 | 1.479 | 460 |
| 500 | 06 | 269 | 12.875 | 19.939 | 12.873- | 16.357 | 0.215- | 11.403 | .036- | 177.0 | 16.367 | 11.388 | 1.298 | 460 |
| 500 | 09 | 267 | 19.993 | 24.431 | 19.967- | 20.296 | 1.028- | 13.600 | .026 | 2.0 | 20.302 | 13.591 | 1.384 | 453 |
| 300 | 12 | 267 | 84.613 | 42.669 | 84.495- | 31.726 | 4.473- | 28.531 | .042 | 11.0 | 31.841 | 28.402 | 1.478 | 420 |
| 300 | 03 | 267 | 57.225 | 36.710 | 57.128- | 28.496 | 3.331- | 23.143 | .220 | 23.0 | 29.568 | 21.757 | 1.524 | 429 |
| 300 | 06 | 286 | 14.484 | 24.028 | 13.936- | 19.389 | 3.948 | 14.192 | .023 | 2.0 | 19.395 | 14.184 | 1.245 | 368 |
| 300 | 09 | 270 | 31.246 | 35.105 | 31.246- | 29.982 | 0.072 | 18.261 | .159 | 8.5 | 30.200 | 17.898 | 1.400 | 364 |
| 200 | 12 | 268 | 94.691 | 43.171 | 94.652- | 31.228 | 2.731- | 29.809 | .110 | 33.5 | 32.302 | 28.642 | 1.451 | 447 |
| 200 | 03 | 269 | 66.500 | 44.019 | 66.497- | 33.680 | 0.659- | 28.343 | .253 | 28.0 | 35.530 | 25.987 | 1.422 | 428 |
| 200 | 06 | 302 | 16.886 | 31.315 | 14.270- | 24.987 | 9.030 | 18.876 | .134 | 12.5 | 25.270 | 18.495 | 1.197 | 368 |
| 200 | 09 | 277 | 33.279 | 41.291 | 33.022- | 34.134 | 4.133 | 23.128 | .117 | 8.0 | 34.329 | 22.838 | 1.368 | 364 |

## Ocean Station "X" — 39°00'N.- 153°00'W.

| P | J | $\bar{\theta}$ | $\|\bar{V}\|$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 270 | 32.622 | 21.417 | 32.622- | 13.821 | 0.054- | 16.361 | .033 | 84.5 | 16.383 | 13.794 | 1.211 | 451 |
| 700 | 03 | 267 | 24.687 | 22.016 | 24.660- | 14.440 | 1.160- | 16.618 | .069 | 77.0 | 16.735 | 14.304 | 1.218 | 460 |
| 700 | 06 | 269 | 12.849 | 16.050 | 12.845- | 11.163 | 0.309- | 11.532 | .174 | 50.5 | 12.313 | 10.295 | 1.168 | 460 |
| 700 | 09 | 265 | 22.683 | 18.743 | 22.599- | 12.437 | 1.944- | 14.022 | .050 | 78.5 | 14.086 | 12.365 | 1.240 | 455 |
| 500 | 12 | 265 | 54.472 | 30.865 | 54.264- | 20.810 | 4.755- | 22.794 | .040 | 78.0 | 22.885 | 20.710 | 1.238 | 451 |
| 500 | 03 | 264 | 40.720 | 26.846 | 40.531- | 18.414 | 3.916- | 19.536 | .119 | 58.0 | 20.206 | 17.676 | 1.290 | 460 |
| 500 | 06 | 274 | 20.792 | 20.601 | 20.752- | 14.932 | 1.287 | 14.283 | .130 | 35.5 | 15.585 | 13.568 | 1.232 | 460 |
| 500 | 09 | 265 | 38.912 | 25.921 | 38.749- | 18.370 | 3.560- | 18.287 | .155 | 44.0 | 19.703 | 16.843 | 1.361 | 455 |
| 300 | 12 | 265 | 84.857 | 40.217 | 84.558- | 27.346 | 7.122- | 29.488 | .087 | 65.5 | 30.030 | 26.750 | 1.315 | 420 |
| 300 | 03 | 267 | 63.811 | 38.032 | 63.696- | 27.061 | 3.844- | 26.723 | .186 | 43.0 | 29.301 | 24.246 | 1.369 | 429 |
| 300 | 06 | 280 | 30.056 | 28.975 | 29.577- | 22.188 | 5.342 | 18.635 | .166 | 22.0 | 22.800 | 17.881 | 1.307 | 368 |
| 300 | 09 | 263 | 59.740 | 36.617 | 59.294- | 27.366 | 7.289- | 24.329 | .211 | 30.5 | 28.834 | 22.570 | 1.497 | 364 |
| 200 | 12 | 265 | 90.683 | 41.635 | 90.380- | 28.789 | 7.407- | 30.078 | .043 | 68.0 | 30.330 | 28.523 | 1.360 | 448 |
| 200 | 03 | 270 | 69.276 | 40.369 | 69.273- | 29.343 | 0.593- | 27.724 | .126 | 33.0 | 30.461 | 26.491 | 1.378 | 428 |
| 200 | 06 | 282 | 36.754 | 36.970 | 36.010- | 29.037 | 7.355 | 22.883 | .193 | 19.5 | 29.805 | 21.873 | 1.303 | 370 |
| 200 | 09 | 266 | 64.530 | 43.277 | 64.343- | 34.145 | 4.921- | 26.589 | .199 | 19.0 | 35.056 | 25.376 | 1.637 | 397 |

## Selected Point – 40° 00'N.- 150° 00'W

| P | J | $\bar{\theta}$ | $\overline{\|V\|}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 260 | 23.168 | 26.832 | 22.841- | 19.503 | 3.879- | 18.428 | .087 | 28.5 | 19.938 | 17.957 | 1.203 | 451 |
| 700 | 03 | 266 | 24.644 | 22.046 | 24.595- | 14.655 | 1.564- | 16.470 | .131 | 66.0 | 16.898 | 14.160 | 1.192 | 460 |
| 700 | 06 | 261 | 13.150 | 18.596 | 12.995- | 13.207 | 2.018- | 13.090 | .352 | 44.5 | 15.292 | 10.580 | 1.209 | 460 |
| 700 | 09 | 263 | 22.903 | 21.968 | 22.724- | 14.911 | 2.860- | 16.132 | .022- | 98.0 | 16.155 | 14.886 | 1.205 | 455 |
| 500 | 12 | 262 | 33.661 | 35.647 | 33.306- | 24.915 | 4.874- | 25.495 | .136 | 50.0 | 26.900 | 23.391 | 1.215 | 451 |
| 500 | 03 | 266 | 35.059 | 28.076 | 34.951- | 18.921 | 2.751- | 20.743 | .080 | 69.5 | 21.029 | 18.603 | 1.232 | 460 |
| 500 | 06 | 263 | 17.072 | 24.043 | 16.953- | 17.712 | 2.013- | 16.260 | .281 | 36.5 | 19.335 | 14.292 | 1.231 | 460 |
| 500 | 09 | 260 | 32.600 | 30.342 | 32.127- | 20.485 | 5.532- | 22.383 | .006 | 88.0 | 22.386 | 20.482 | 1.251 | 455 |
| 300 | 12 | 267 | 46.494 | 42.761 | 46.412- | 29.440 | 2.760- | 31.012 | .214 | 52.0 | 33.399 | 26.701 | 1.220 | 451 |
| 300 | 03 | 269 | 46.063 | 37.228 | 46.061- | 25.518 | 0.504- | 27.106 | .124 | 58.0 | 28.081 | 24.441 | 1.254 | 429 |
| 300 | 06 | 269 | 20.144 | 30.501 | 20.143- | 22.583 | 0.290- | 20.502 | .294 | 36.0 | 24.674 | 17.931 | 1.243 | 368 |
| 300 | 09 | 260 | 43.293 | 39.823 | 42.664- | 27.522 | 7.349- | 28.783 | .033 | 71.5 | 28.939 | 27.358 | 1.275 | 364 |
| 200 | 12 | 267 | 49.155 | 39.425 | 49.101- | 26.782 | 2.294- | 28.932 | .184 | 56.5 | 30.534 | 24.941 | 1.212 | 448 |
| 200 | 03 | 271 | 44.339 | 34.630 | 44.328- | 23.306 | 1.000 | 25.614 | .083 | 69.5 | 25.978 | 22.900 | 1.233 | 429 |
| 200 | 06 | 273 | 19.706 | 33.423 | 19.685- | 25.075 | 0.913 | 22.100 | .266 | 32.5 | 26.871 | 19.877 | 1.146 | 368 |
| 200 | 09 | 262 | 44.915 | 39.005 | 44.437- | 25.934 | 6.531- | 29.135 | .039 | 80.5 | 29.221 | 25.837 | 1.258 | 364 |

## Selected Point – 40° 00'N.- 175° 00'E

| P | J | $\bar{\theta}$ | $\overline{\|V\|}$ | $S_v$ | $\bar{x}$ | $S_x$ | $\bar{y}$ | $S_y$ | r | $\Psi$ | $S_a$ | $S_b$ | $S_v/S_s$ | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 12 | 259 | 29.876 | 22.585 | 29.352- | 15.001 | 5.568- | 16.884 | .048- | 101.0 | 16.956 | 14.920 | 1.225 | 451 |
| 700 | 03 | 261 | 29.224 | 22.833 | 28.849- | 14.611 | 4.670- | 17.546 | .208 | 65.5 | 18.219 | 13.763 | 1.234 | 460 |
| 700 | 06 | 259 | 17.437 | 16.747 | 17.130- | 11.632 | 3.257- | 12.048 | .026- | 108.5 | 12.099 | 11.579 | 1.215 | 460 |
| 700 | 09 | 267 | 25.791 | 20.268 | 25.758- | 14.382 | 1.313- | 14.281 | .132 | 43.5 | 15.252 | 13.347 | 1.258 | 454 |
| 500 | 12 | 258 | 46.901 | 31.902 | 45.857- | 22.255 | 9.843- | 22.857 | .028 | 66.5 | 22.995 | 22.112 | 1.259 | 450 |
| 500 | 03 | 261 | 43.861 | 27.931 | 43.292- | 18.081 | 7.043- | 21.290 | .192 | 65.0 | 22.079 | 17.109 | 1.265 | 460 |
| 500 | 06 | 266 | 24.565 | 21.843 | 24.516- | 15.462 | 1.557- | 15.428 | .028 | 43.0 | 15.667 | 15.220 | 1.243 | 460 |
| 500 | 09 | 269 | 39.638 | 26.605 | 39.628- | 19.252 | 0.898- | 18.363 | .228 | 39.0 | 20.888 | 16.479 | 1.325 | 455 |
| 300 | 12 | 257 | 70.357 | 38.758 | 68.671- | 26.935 | 15.305- | 27.870 | .134 | 52.0 | 29.248 | 25.432 | 1.323 | 423 |
| 300 | 03 | 263 | 63.576 | 37.428 | 63.102- | 23.089 | 7.750- | 29.457 | .249 | 67.5 | 30.635 | 21.502 | 1.231 | 429 |
| 300 | 06 | 270 | 34.091 | 30.951 | 34.090- | 22.391 | 0.290 | 21.369 | .049 | 23.5 | 22.616 | 21.130 | 1.330 | 368 |
| 300 | 09 | 271 | 60.530 | 39.115 | 60.519- | 27.460 | 1.170 | 27.856 | .151 | 47.5 | 29.687 | 25.470 | 1.370 | 364 |
| 200 | 12 | 258 | 75.065 | 42.750 | 73.307- | 30.571 | 16.151- | 29.883 | .054 | 33.5 | 31.114 | 29.318 | 1.337 | 449 |
| 200 | 03 | 261 | 66.703 | 37.863 | 65.856- | 23.709 | 10.594- | 29.522 | .155 | 72.5 | 30.100 | 22.970 | 1.263 | 429 |
| 200 | 06 | 274 | 37.671 | 34.632 | 37.576- | 24.483 | 2.684 | 24.495 | .050 | 45.5 | 25.104 | 23.858 | 1.261 | 368 |
| 200 | 09 | 274 | 64.031 | 40.505 | 63.898- | 28.355 | 4.125 | 28.925 | .209 | 47.5 | 31.509 | 25.453 | 1.304 | 364 |

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