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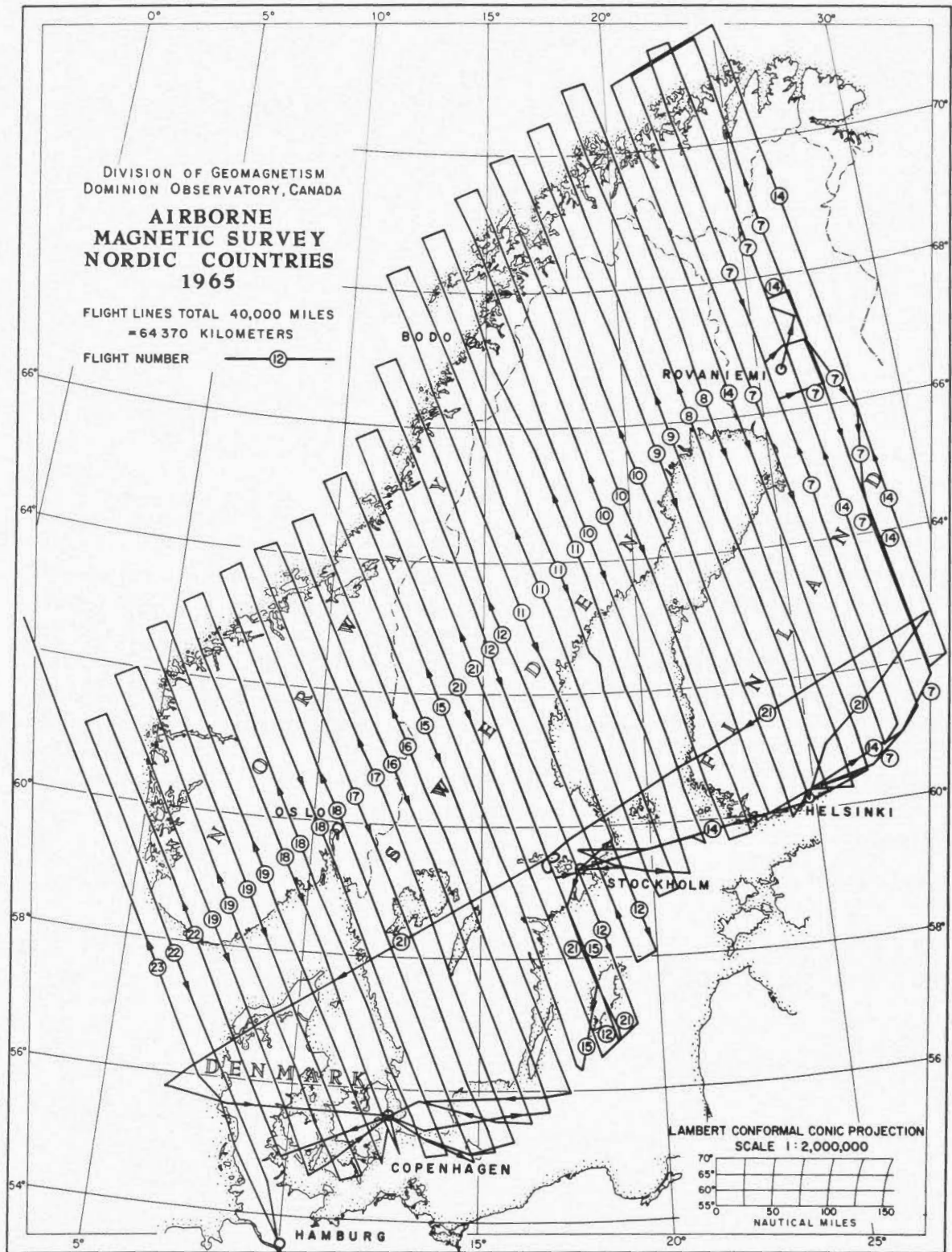


FIGURE 1. Flight lines of the Nordic survey. Flight numbers are circled on each line and arrowheads indicate the direction of travel.

A THREE-COMPONENT AEROMAGNETIC SURVEY OF THE NORDIC COUNTRIES AND THE GREENLAND SEA

W. HANNAFORD AND G. V. HAINES

ABSTRACT: In 1965 the Dominion Observatory's airborne magnetometer surveyed Iceland, northern Greenland, the Greenland Sea, and also Denmark, Norway, Sweden and Finland. The survey was sponsored jointly by Canada and the four countries of northern Europe. A gyro-stabilized fluxgate magnetometer recorded the three geomagnetic elements D, H and Z in continuous analog form and also produced averages computed over 5-minute intervals of time. Total intensity F was measured by a proton precession magnetometer. Corrections for the magnetic field of the aircraft, determined from six calibration 'swing' flights, were applied to the observations, and a 3rd degree polynomial was fitted to the results. The residuals revealed that throughout many survey flights the aircraft's magnetism differed considerably from the mode which was prevalent during calibration swings. Residual-derived estimates of the aircraft field error peculiar to each flight indicated several distinct modes of aircraft magnetism, and the data were corrected accordingly. A comparison of observations at 70 flight path intersections yielded standard errors of 0.39° in D, 57γ in H, 42γ in Z and 37γ in F, for the 5-minute averages over northern Europe and the Greenland Sea. Corresponding standard errors in the Iceland area were estimated at 0.42° in D, 86γ in H, 52γ in Z and 52γ in F.

RÉSUMÉ: La Direction des observatoires a effectué en 1965, à l'aide d'un magnétomètre aéroporté, un levé au-dessus de l'Islande, la mer du Groenland, le nord du Groenland, le Danemark, la Suède et la Finlande. Le Canada a entrepris l'étude en collaboration avec les quatre pays du nord de l'Europe. Un magnétomètre fluxgate gyro-stabilisé a enregistré les trois éléments géomagnétiques D, H et Z sous forme analogique continue et a produit aussi des moyennes calculées à des intervalles de cinq minutes. On a mesuré l'intensité totale F à l'aide d'un magnétomètre à précession protonique. Les corrections pour le champ magnétique de l'avion, déterminées à partir de six vols de calibrage, ont été appliquées aux observations, et les résultats ont été rédigés sous forme d'un polynôme du 3^e degré. Les valeurs résiduelles ont démontré qu'au cours de plusieurs vols de mission le magnétisme de l'avion différait considérablement de celui qu'on retrouvait durant les vols de calibrage. Des estimations provenant de ces valeurs résiduelles et portant sur l'erreur de champ magnétique de l'avion à chacun des vols ont indiqué qu'il y avait plusieurs types distincts de magnétisme de l'avion, et on a donc corrigé les données en conséquence. Une comparaison des observations effectuées à 70 intersections de trajectoires de vol a donné des erreurs moyennes de 0.39° en D, 57γ en H, 42γ en Z et 37γ en F pour des périodes moyennes de cinq minutes au-dessus du nord de l'Europe et de la mer du Groenland. Les erreurs correspondantes pour la région de l'Islande s'établissaient ainsi: 0.42° en D, 86γ en H, 52γ en Z et 52γ en F.

Introduction

As a contribution to the World Magnetic Survey project, the governments of Denmark, Norway, Sweden and Finland arranged with Canada to undertake an airborne three-component geomagnetic survey of the four Nordic countries and their adjacent waters. This survey was carried out in the autumn of 1965 with the Dominion Observatory's airborne magnetometer, which was flown in a chartered DC6 aircraft. The survey crew consisted of five members of the Dominion Observatory staff, assisted by one observer from Finland and another from Sweden. The flight lines of this survey are indicated in Figure 1.

Canada also conducted two additional surveys in adjoining areas as indicated in Figures 2 and 3. The three surveys were carried out consecutively in one combined airborne operation.

Average spacing of the flight lines in the Nordic survey (Figure 1) and in the Iceland survey (Figure 2) was 20 nautical miles or 37 km and the average flight altitude was 3 km above sea level, whereas the flight lines of the Greenland Sea survey (Figure 3), which extended from the coast of Norway to the west coast of Greenland, were separated by 100 nautical miles or 185 km, on the average, and the flight altitude was usually 5 km.

Magnetometers and Data Acquisition

The airborne magnetometer's gyro-stabilized fluxgate sensors continuously measure three elements of the magnetic field within the fuselage of the aircraft: horizontal intensity H^* , vertical intensity Z^* and an angle Dg^* , which corresponds to magnetic declination, but is measured with respect to a free gyro rather than true north. The asterisk indicates contamination from aircraft magnetism. This information is recorded in analog strip-chart profiles and is also averaged automatically over successive 5-minute intervals of the flight (Serson, *et al.*, 1957; Hannaford, *et al.*, 1967). At the end of each 5-minute interval the average value of each component is presented on the visual read-out of a digital counter, and is logged by the operator. These 5-minute averages apply to segments of profile approximately 35 km in length and serve as a convenient basis for handling and smoothing data.

The conventional declination D^* is obtained by taking the sum of the recorded angle Dg^* and the azimuth of the directional gyro's reference axis. The latter varies with time and geographical position and is determined throughout the flight by frequent astronomical bearings taken with a stabilized periscopic sextant. A smooth curve is fitted to the observed values of gyro azimuth plotted versus time, to give a continuous direction reference for declination.

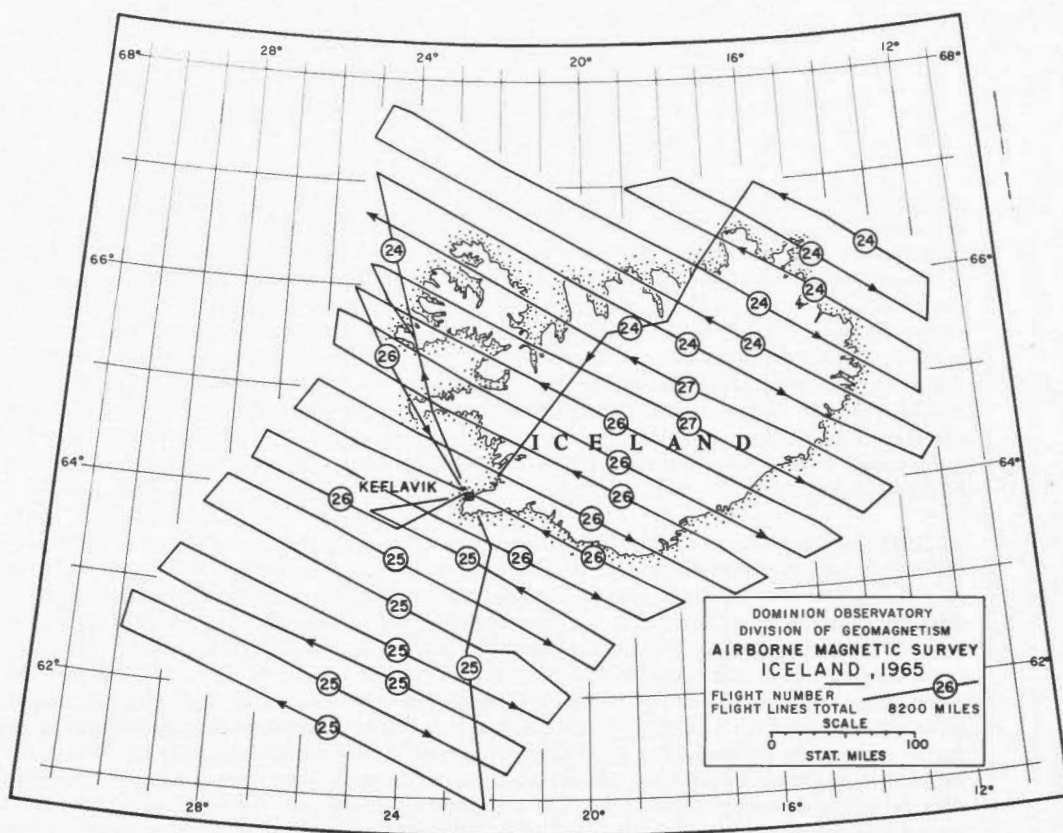


FIGURE 2.

Flight lines of the Iceland survey. Flight numbers are circled on each line and arrow-heads indicate the direction of travel.

A Barringer AM 101A proton-precession magnetometer was also installed in the aircraft with the proton sample and pick-up coil located in the end of a hollow boom which extended 3 1/2 metres from the rear of the fuselage (Figure 4). Values of total intensity F were recorded once per second except during flights 1 to 5 which occurred before electrical grounding problems were solved. Analog records of F were manually scaled and averaged over the same 5-minute intervals as mentioned above.

Navigation

To obtain the best possible accuracy in determining the geographical position of the aircraft at any time during the surveys, two navigators operated through each flight. Navigation equipment specially fitted to the aircraft consisted of a Doppler unit which indicated ground speed and drift angle, a computer to integrate ground speed and resolve the distance travelled into miles along and across a track selected with respect to the directional reference gyro (unfortunately this computer was not functioning for most of the flights), and a Decca unit to receive any channel of the four Scandinavian chains. Useful Decca navigation was confined to coastal areas of Scandinavia, the coverage amounting to perhaps 15% of the Nordic survey area. The aircraft was also equipped with Loran A, which proved particularly useful during the Greenland Sea survey.

Navigation over land was based mainly on map reading, and position fixes were obtained every 15 to 20 minutes, i.e., every 120 km on the average. Navigation over sea and ice was based mainly on astro observations and position fixes were obtained every 25 to 30 minutes, averaging 190 km between fixes. Positions were estimated wherever changes in aircraft heading or wind component diverted the track from a straight line between fixes and wherever significant changes in ground speed occurred. All of these positions, together with a record of flight altitude were listed in the navigator's report, from which geographical co-ordinates at the centre of each 5-minute averaging period were determined by interpolation along a great-circle path.

Estimates of the average error in position fixes are given in the navigator's report as 1/2 nautical mile (nm) over land, 1 nm over the Norwegian Sea south of lat. 75° N, and 2 1/2 nm over Greenland and the five most northern flight lines across the Greenland Sea. The maximum errors are estimated to be twice as large as the average.

Calibration Swing Procedure

Of all other errors affecting the accuracy of the survey results the largest are those arising from uncertainty in determining the contributions from magnetic material and dc electrical currents in the aircraft, especially the latter. Throughout the survey operation seven calibration flights were

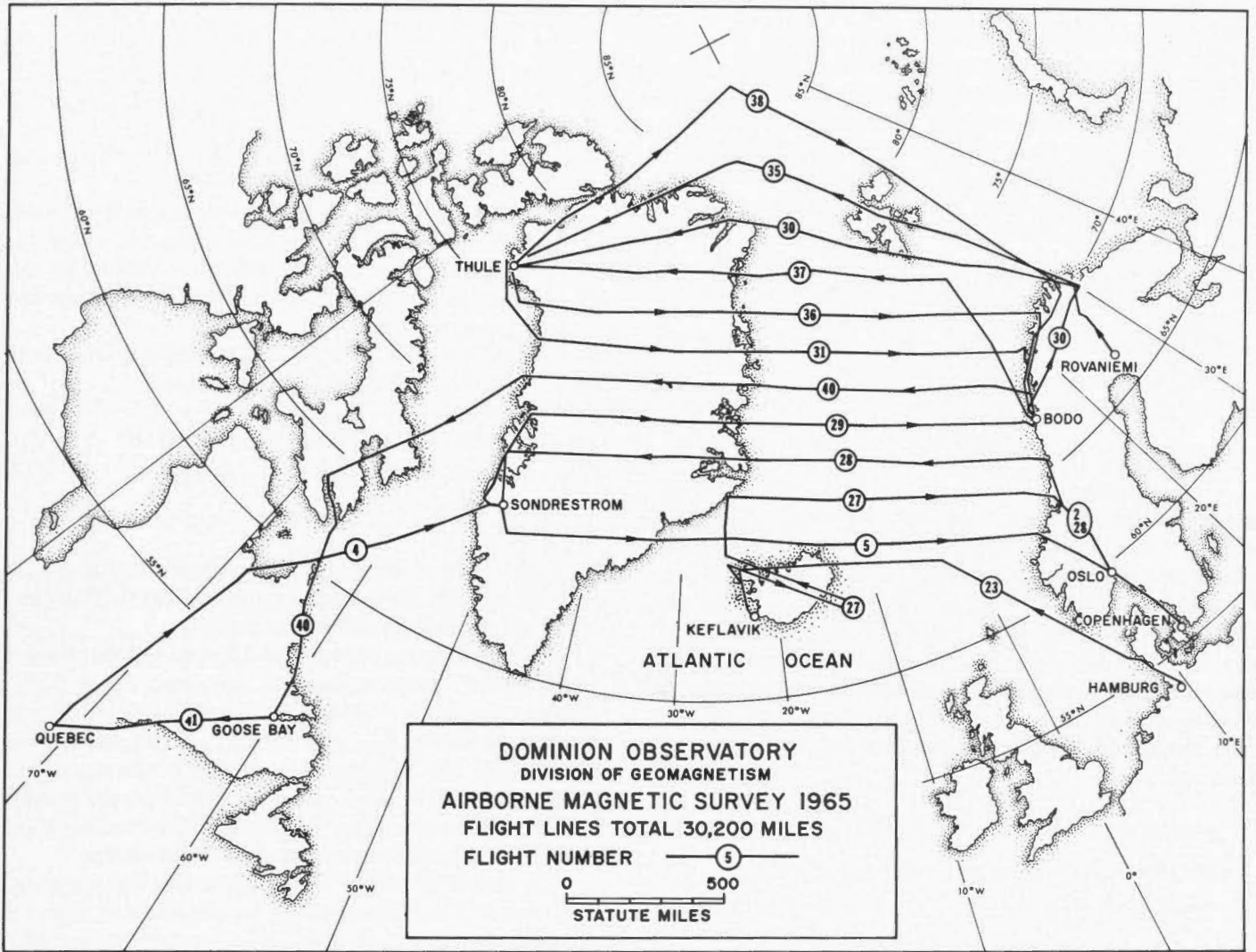


FIGURE 3. Flight lines of the Greenland Sea survey. Flight numbers are circled on each line and arrowheads indicate the direction of travel.

made to determine the magnetic fields of the aircraft. Each calibration flight or 'swing' consists of at least eight passes over a chosen check point where the Earth's magnetic field is accurately known. The passes may be grouped in pairs so that each pair differs in heading from the others by approximately 90° or 180°. Each pass requires a 15-minute, straight-line approach to the check point to provide ample time for the vertical stabilization system to recover from deflections caused by acceleration forces which act during the turn at the end of each run. Notwithstanding such measures a single pass is often unsuccessful because of sustained air turbulence and moderate adjustments in the aircraft heading. The results of a swing depend upon a comparison of the D, H and Z values at ground level with the D*, H* and Z* values measured in the aircraft at the moment when it is above the check point. It is essential that the area within a 10-km radius of the check point be free from magnetic gradients larger than a few gammas per km, since it is practically impossible to arrive directly above the check point on every pass. The first swing attempted in

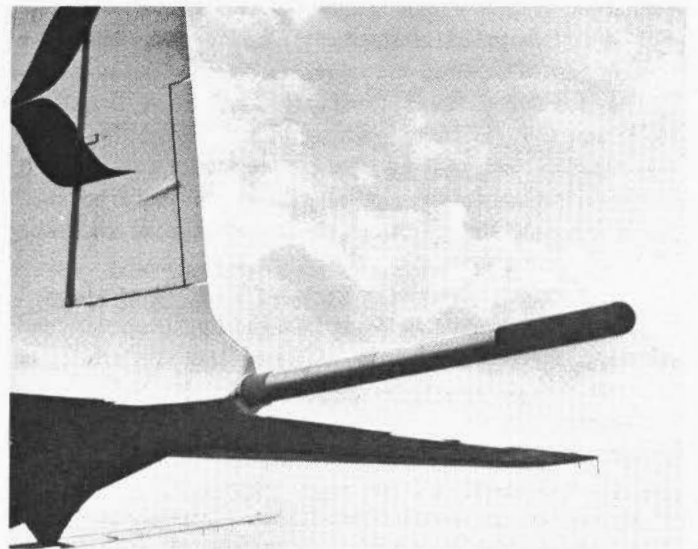


FIGURE 4. The proton precession detector is housed in the rear of the tail extension on the aircraft.

Europe was carried out in flight No. 6 over the magnetic observatory at Sodankyla, Finland. The proximity of a 300 γ anomaly which typifies the magnetic character of the area led eventually to the entire results of this swing being discarded. Subsequent swings were flown over Voltti in Finland at latitude 63° 18' N, longitude 22° 46' E, near the centre of a magnetically flat area which extends at least 20 km in any direction from the check point. Ground level values of the magnetic field components were determined for the swings at Voltti by C. Sucksdorff of the Finnish Meteorological Office. The survey operation began and ended with a flight over a selected area in Canada, surrounding St. Rosaire at latitude 46° 50' N, longitude 70° 24' W.

Swing Calculations and Results

For determining the magnetic vector contribution from sources in the aircraft, the magnetic field at the detectors is resolved into three orthogonal components in a co-ordinate system which is fixed with respect to the aircraft as follows: *P*-component, forward along the fore-and-aft axis of the aircraft; *Q*-component, to starboard in the port-and-starboard direction; and *R*-component, downward and normal to the plane of *P* and *Q*, coinciding with the vertical when the aircraft is in level flight. Using an asterisk to denote the combined geomagnetic and aircraft fields, the latter may be described by three equations:

$$P^* \cdot P = [(H^* - H) - h] \cos \Psi_m^* + H^*[(D^* - D) - d] \sin \Psi_m^* \quad (1)$$

$$Q^* \cdot Q = H^*[(D^* - D) - d] \cos \Psi_m^* - [(H^* - H) - h] \sin \Psi_m^* \quad (2)$$

$$R^* \cdot R = (Z^* - Z) - z \quad (3)$$

where Ψ_m^* = magnetic heading of the aircraft, *d* is a constant combining the misalignment of the sextant, misalignment of synchros and other apparent displacements of the zero in the declination system of the magnetometer, and *h* and *z* are similarly attributed to instrumental errors amounting to a constant part of the observed values.

The following assumptions are implicit in Equations (1),(2) and (3): (a) There is no significant contribution from magnetization induced by the geomagnetic field. (b) A correction is made for the vertical gradient in H and Z between ground level and flight altitude. (c) $D^* - D$ is a small angle, i.e., $(P^* - P)^2 + (Q^* - Q)^2 \ll H^2$.

Assumption (a) is based upon rigorous analysis of both the induced and permanent fields of DC6 and similar aircraft, and also upon the absence of any indicated 180° periodicity in the plots of $(D - D^*)$ vs. Ψ_m^* and $(H - H^*)$ vs. Ψ_m^* (Figure 5).

Corrections for the vertical gradients over Voltti and St. Rosaire were applied in accordance with assumption (b). These are discussed in a later section.

Assumption (c) is valid since the horizontal component of the aircraft's magnetic field is approximately 120 γ .

A total of 38 passes yielded acceptable data for least-squares solutions of the equations

$$D^* - D = d + (\Delta P \sin \Psi_m^* + \Delta Q \cos \Psi_m^*) / H^* \quad (4)$$

$$H^* - H = h + \Delta P \cos \Psi_m^* - \Delta Q \sin \Psi_m^* \quad (5)$$

$$Z^* - Z = \Delta R \quad (6)$$

to obtain the values: $d = -2.6^\circ$, $h = +45 \gamma$, $\Delta P = +27 \gamma$, $\Delta Q = +112 \gamma$, and $\Delta R = +50 \gamma$.

In Equation (6) the assumption is made that $z = 0$, since the instrumental error in Z^* cannot be distinguished from the effect of aircraft magnetism. No error is introduced by this assumption when the *Z*-correction is applied since it serves as a total correction for both effects.

The corrections ΔD , ΔH and ΔZ are added to D^* , H^* and Z^* , respectively, and are given by the equations

$$\Delta D = -d - (\Delta P \sin \Psi_m^* + \Delta Q \cos \Psi_m^*) / H^* \quad (7)$$

$$\Delta H = -h - \Delta P \cos \Psi_m^* + \Delta Q \sin \Psi_m^* \quad (8)$$

$$\Delta Z = -\Delta R$$

Figure 5 shows the computed curves of ΔD , ΔH and ΔZ vs. Ψ_m^* and also the individual values of $(D - D^*)$, $(H - H^*)$ and $(Z - Z^*)$ from which the curves were derived.

The 38 differences between the ΔD curve and the observed points $(D - D^*)$ have a standard deviation, $S_{\Delta D} = 0.15^\circ$. Similarly the values of $(H - H^*) - \Delta H$ and $(Z - Z^*) - \Delta Z$ have standard deviations, $S_{\Delta H} = 34 \gamma$ and $S_{\Delta Z} = 48 \gamma$, respectively. These figures may be taken as an estimate of the accuracy of instantaneous *D*, *H* and *Z* values obtained from the fluxgate magnetometer under most favourable flight conditions and corrected in accordance with swing calibration results.

The scatter in $(Z - Z^*)$ values is relatively high compared with that of $(D - D^*)$ and $(H - H^*)$, and especially so since one should expect $S_{\Delta Z}$ to be smaller than $S_{\Delta H}$ by a factor of *H/Z* (approximately 0.28 at Voltti) if the errors are caused by deflections of the vertical reference system. Unfortunately the aircraft's magnetic field does not remain constant, and larger changes in the vertical component account for the discrepancy.

However, because the proton magnetometer is an independent system providing virtually continuous values of total intensity, the survey measurements are effectively redundant in one component. Furthermore, the aircraft field is much smaller at the end of the tail-stinger where the proton sample is located, and the changes are consequently much smaller also. In evidence of this fact, the swing-derived correction for aircraft field at the proton sample, in gammas, is

$$\Delta F = 4 + 5 \sin \Psi_m^* + 1 \cos \Psi_m^*$$

with a standard deviation of 9 γ . These figures are derived from the 40 values of F_p^* observed on all swing passes in which the proton magnetometer was functioning. No passes were rejected since the direction reference system is not involved.

It is possible then to obtain a more accurate value of *Z* using the equation

$$Z_p^2 = (F_p^* + \Delta F)^2 - (H^* + \Delta H)^2 \quad (10)$$

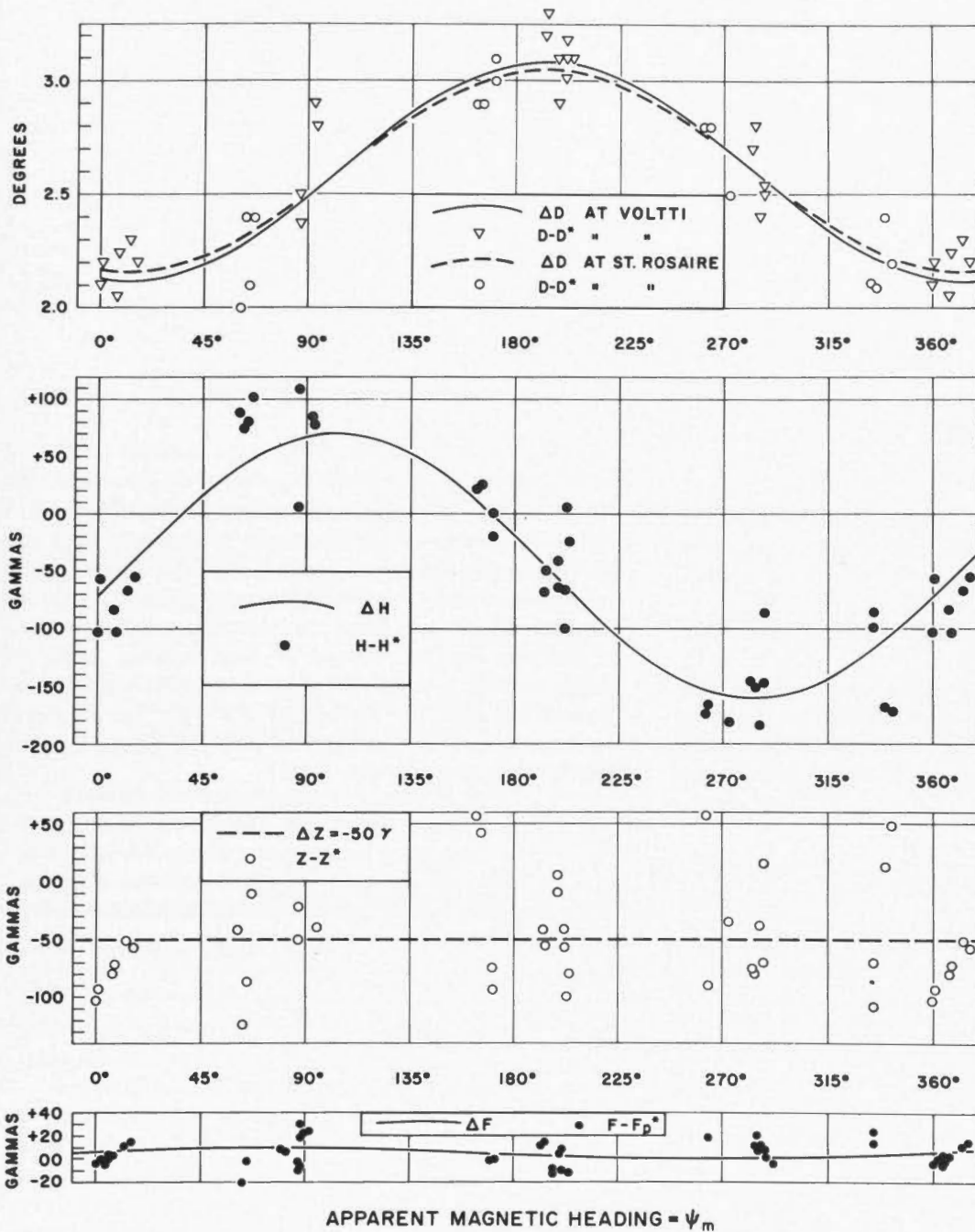


FIGURE 5. Correction curves calculated from calibration 'swing' results. Plotted points indicate the airborne vs. check-point differences from which the correction curves were derived.

For example, from the 30 swing passes which provide values of both H^* and F^*_p with which Z_p can be calculated, $\overline{Z - Z_p} = 1 \gamma$ and the standard deviation of the 30 samples is 16γ as compared with $S_{\Delta Z} = 48 \gamma$. Consequently the 5-minute averages of vertical component as listed in the appendix have been derived from H^* and F^*_p , whenever both are available.

Residual-derived Corrections

While the aircraft's magnetic field was apparently more stable in the horizontal component than in the vertical component during the swings, an analysis of the swing-corrected

survey data presents clear indications that during some survey flights the transverse aircraft component ΔQ was different from the swing-derived value by as much as 180γ . The same condition existed in the forward component ΔP , but to a lesser degree. To analyze the resulting errors, 3rd degree polynomials were fitted to the swing-corrected survey data over each of the three survey regions (Haines, 1968). Fortunately the direction of flight is reversed from one flight line to the next, and the coefficients of the polynomials are not significantly affected by the heading errors. The polynomial fields were subtracted from the swing-corrected data and the residuals along the various flight lines were examined for

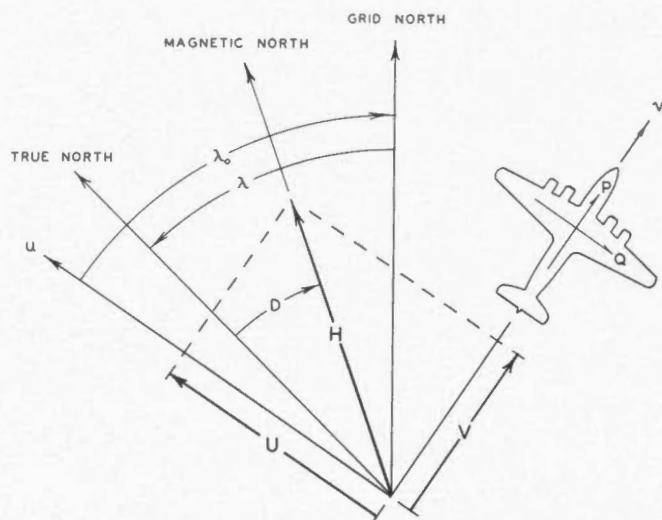


FIGURE 6. Orientation of the aircraft-field magnetic vectors P and Q , and the polynomial reference field vectors U and V , with respect to Greenwich Grid.

systematic effects which could be correlated with heading of the aircraft.

In attempting to correlate residuals with aircraft magnetism it is most convenient to adopt horizontal reference axes U and V , chosen so that V is parallel to the flight lines and U is perpendicular to them. The swing-corrected values of D and H

Table 1

NUMBER OF RESIDUALS AND RMS VALUES

	Scandinavia	Iceland	Greenland Sea
rms ΔU	163 γ	195 γ	143 γ
rms ΔV	120 γ	174 γ	120 γ
No. of Residuals	1372	287	767

averages are then converted into components U and V by the relations

$$U = H \cos (D - \lambda + \lambda_0) \quad \text{and} \quad V = H \sin (D - \lambda + \lambda_0)$$

where λ = east longitude, and λ_0 is the eastward (clockwise) angle from the $+U$ axis to the direction of the Greenwich Grid North on a polar stereographic projection (see Figure 6). A smoothed version of the horizontal geomagnetic field may then be expressed as a function of polar stereographic coordinates u and v , by 3rd degree polynomials $U_R(u,v)$ and $V_R(u,v)$ which are fitted to the values of U and V , respectively, by the method of least squares. When the reference field is removed by subtraction the residual components are $\Delta U = U - U_R$ and $\Delta V = V - V_R$. The number of residuals in each component, and their rms values, are given for the three survey areas in Table 1.

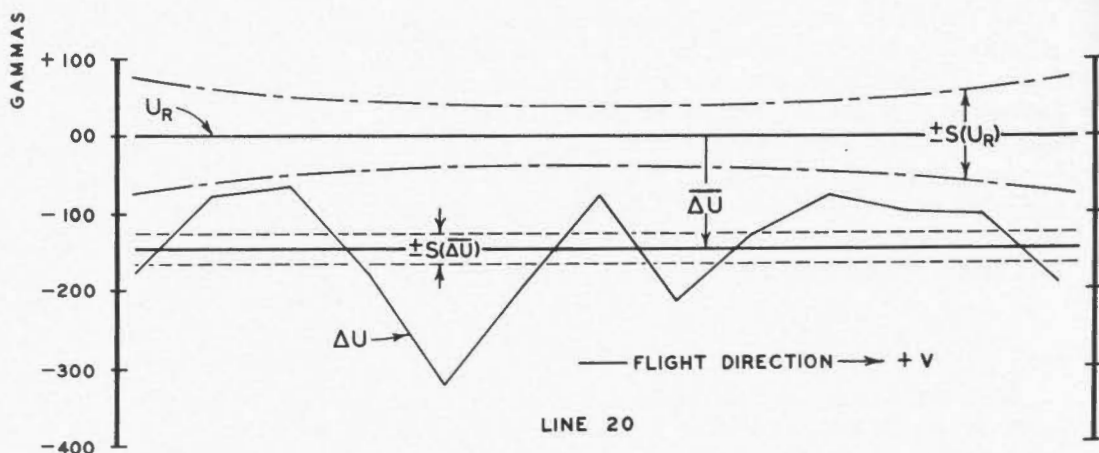
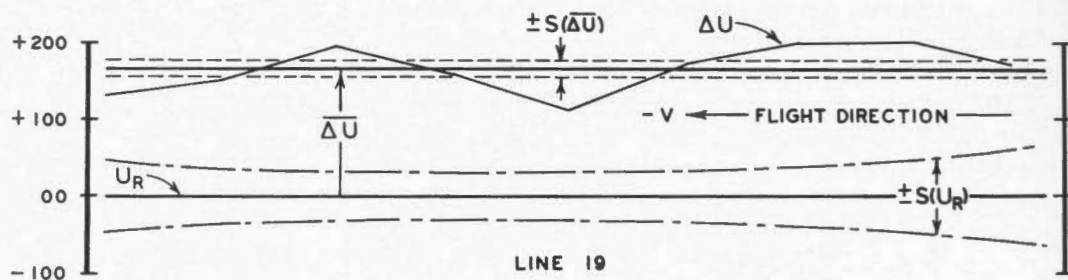


FIGURE 7. Two residual profiles of 5-minute averages in the U -component, taken from the Iceland survey. Westerly direction is toward the left, and easterly toward the right. Standard errors of the residual mean and of the reference field are indicated by dashed lines.

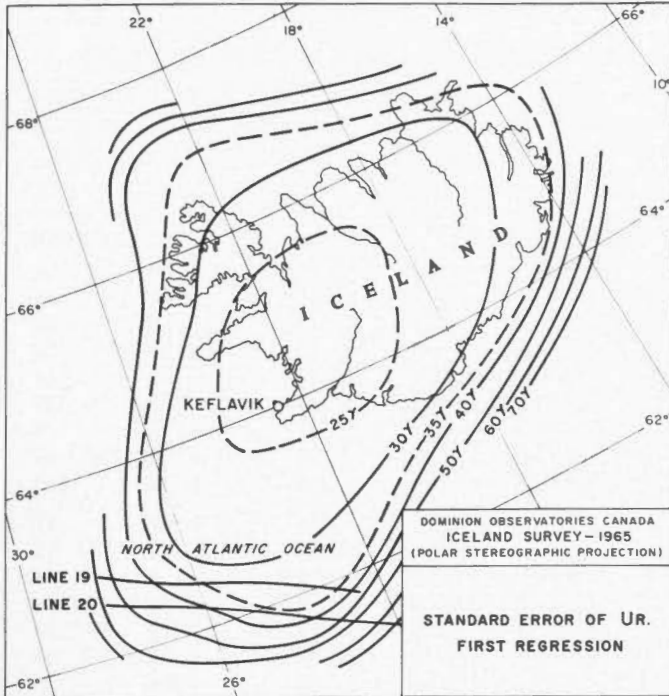


FIGURE 8. Contours indicate the standard error of estimate of the Iceland reference field U -component. Location of the two flight lines represented in Figure 7 is shown.

When the forward component of aircraft field ΔP is greater than the swing-estimated value by an amount δP , then values along the ΔV profile are increased by the amount δP if the aircraft is travelling in the $+V$ direction, and decreased by the amount δP if the aircraft is travelling in the $-V$ direction. Thus if $\overline{\Delta V}$ is the mean ΔV residual of a single profile, and a subscript $+$ or $-$ indicates the direction of flight, then $\delta P \approx +\overline{\Delta V}_+$ and $\delta P \approx -\overline{\Delta V}_-$. A similar consideration leads to $\delta Q \approx -\overline{\Delta U}_+$ and $\delta Q \approx +\overline{\Delta U}_-$ since Q and U are opposite vectors when the aircraft is facing the $+V$ direction.

Figure 7 shows two adjacent profiles of the 5-minute ΔU averages. This pair was selected from the Iceland survey for illustration because the indicated δQ aircraft field is comparatively large. The positive displacement of the westbound profile and negative displacement of the eastbound profile are clearly seen. The mean residual $\overline{\Delta U}$ is represented by a horizontal line drawn at the mean level of each profile and centred within a band whose width is plus and minus the standard deviation of the mean $S(\overline{\Delta U})$. If n is the number of 5-minute averages taken along the profile, then $S(\overline{\Delta U}) = S(\Delta U)/\sqrt{n}$. Similarly the reference field U_R is represented by a horizontal line at the zero level, and the area immediately above and below it is bounded by a symmetrical pair of gentle curves representing $\pm S(U_R)$, the standard error of the least-squares estimate of U_R .

The quantity $S(U_R)$ is a function of data density and position, being a minimum in the central part of each survey area and increasing toward the edges (see Haines, 1968). In Figure 8 the values of $S(U_R)$ in the Iceland survey area are

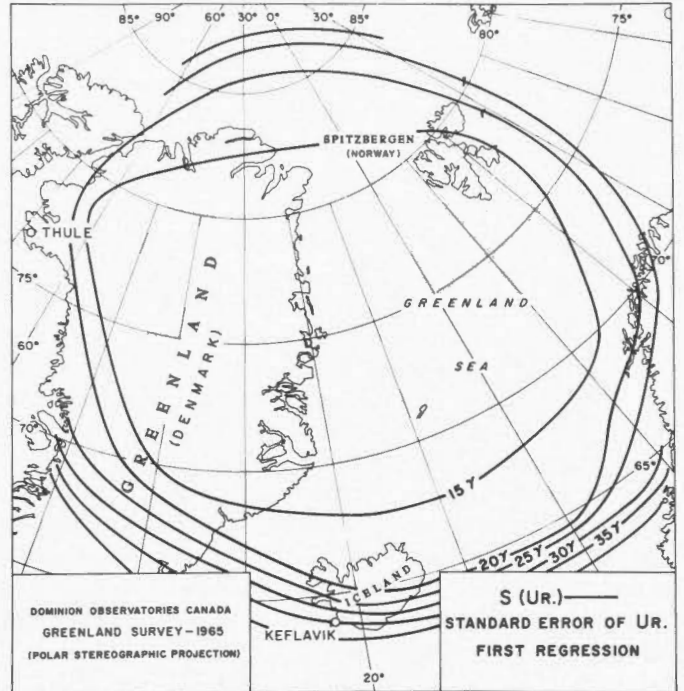


FIGURE 9. Standard error of the Greenland Sea reference field U -component.

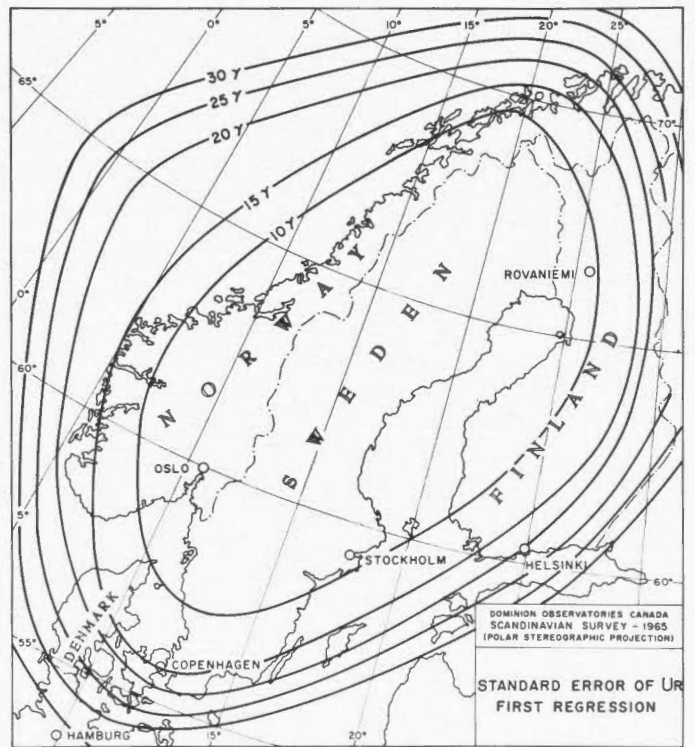


FIGURE 10. Standard error of the Nordic reference field U -component.

indicated by contours, and the location of the two flight lines represented in Figure 7 is also shown. As indicated in both Figures 7 and 8, the relevant cross sections of U_R have standard errors of estimate which vary from 35γ at the centre to approximately 70γ at each end. For the Greenland Sea and Nordic reference fields $S(U_R)$ is generally less than 15γ except near the edges of the survey area, as shown in Figures 9 and 10. The patterns of $S(V_R)$ distribution are similar to those of $S(U_R)$, and values of $S(V_R)$ may be obtained from the contours of Figures 8, 9 and 10, by applying multiplication factors of 0.89, 0.84 and 0.74, respectively. These factors are simply the ratios of rms ΔV / rms ΔU .

The least-squares regression is based on a sufficiently large number of profiles that the error of estimate $S(U_R)$ is virtually independent of the data of any single profile. In other words, if one profile had been omitted from the least-squares solution, the corresponding reference-field error $S(U_R)$ would not have changed significantly. In this sense the standard errors $S(\Delta U)$ and $S(U_R)$ may be considered as independent and may therefore be combined to obtain the standard error of estimate in δQ , which is then

$$S(\delta Q) = \sqrt{S^2(\Delta U) + S^2(U_R)}$$

for a single flight-line profile. A similar consideration of the profiles and the reference field's V -component V_R leads to the expression $S(\delta P) = \sqrt{S^2(\Delta V) + S^2(V_R)}$ for the standard error of estimate of the uncorrected component δP in the forward direction.

When the number of flight lines completed in one day's flying (one flight) is $N > 1$, the individual values of δP and δQ for each line are averaged to obtain a single pair of values δP_0 and δQ_0 for that flight. In obtaining the mean for an entire flight, each one of the individual values $\delta Q_1, \delta Q_2, \dots, \delta Q_N$ is weighted by the inverse of its variance, so that

$$\delta Q_0 = \frac{\sum_{i=1}^N \frac{\delta Q_i}{S^2(\delta Q_i)}}{\sum_{i=1}^N \frac{1}{S^2(\delta Q_i)}}$$

The difference between a weighted and unweighted mean in the values of δP_0 and δQ_0 is generally less than 5γ , but exceptions arise when flight lines differ considerably in length and when a large portion of one flight line occupies a zone near the perimeter of a survey area.

The standard error of estimate of the weighted mean δQ_0 is

$$S(\delta Q_0) = \left[\frac{\sum_{i=1}^N (\delta Q_i - \delta Q_0)^2 / S^2(\delta Q_i)}{(N-1) \sum_{i=1}^N 1 / S^2(\delta Q_i)} \right]^{1/2} \tag{11}$$

Table 2
VALUES OF δP_0 AND δQ_0 AND STANDARD ERRORS OF ESTIMATE

Flight No.	δP_0 γ	$S(\delta P_0)$ γ	δQ_0 γ	$S(\delta Q_0)$ γ
5	-42	1	+79	50
7	+50	12	+44	16
8	+5	23	-44	38
9	+13	5	-42	29
10	-44	14	+72	20
11	-41	16	+61	18
12	-41	18	+135	59
14	-25	11	+7	9
15	-68	22	+10	11
16	+14	6	+52	118
17	-1	14	+68	19
18	-6	26	+27	65
19	-6	8	+9	34
21	+3	24	+38	50
22	-0	9	+77	18
23	+22	46	+44	33
24	-64	31	+106	17
25	-65	17	+132	15
26	-57	19	+141	17
27	-6	39	+182	22
28	+14	20	+174	8
29	-41	38	+115	22
30	-80	31	+72	31
31	-50	17	+63	23
35	+66	18	+11	28
36	+84	19	+38	21
37	+29	19	+28	22
38	+42	17	+35	17
40	+11	20	+37	21

and similarly the standard error of estimate of δP_0 is

$$S(\delta P_0) = \left[\frac{\sum_{i=1}^N (\delta P_i - \delta P_0)^2 / S^2(\delta P_i)}{(N-1) \sum_{i=1}^N 1 / S^2(\delta P_i)} \right]^{1/2} \tag{12}$$

In Table 2 the values of $\delta P_0, \delta Q_0$ and their standard errors of estimate $S(\delta P)$ and $S(\delta Q)$ are given for all the survey flights. It is evident from the figures in columns 2 and 4 that the changes experienced by the aircraft's magnetic field cover a range of 150γ in the P component and 220γ in the Q component. Standard errors are between 0 and 35 gammas in most of the estimates, and the few exceptions apply invariably to flights which traverse very broad anomalies, or those which border a survey area. The two histograms in Figure 11 show the distribution of the 29 survey flights with respect to residual-derived aircraft field estimates δP_0 and δQ_0 . Each flight is represented by a square block and identified by flight number. It is quite apparent in Figure 11 that the flights are

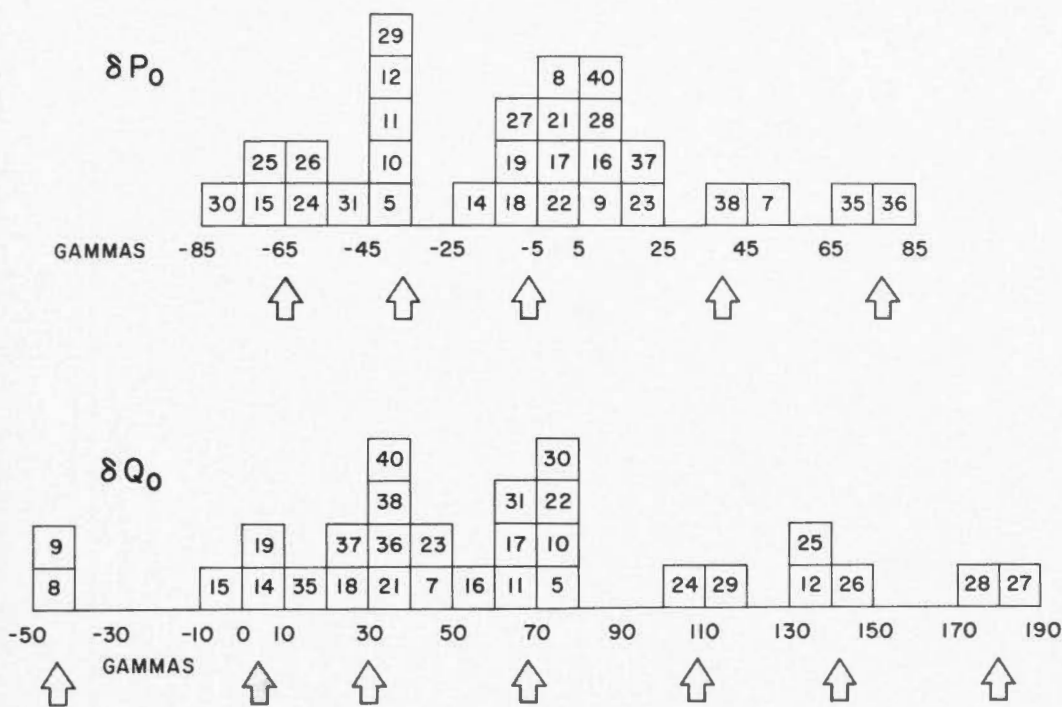


FIGURE 11. The distribution of survey flights with respect to their residual-estimated aircraft-field error δP in the forward component, and δQ in the transverse component. Both histograms are based on 10-gamma increments. Arrows indicate chosen values of the correction factors $\bar{\delta P}$ and $\bar{\delta Q}$.

not distributed evenly along the scales of δP_0 and δQ_0 , but tend to cluster in groups as if the aircraft field assumed certain preferred values in both the forward and starboard components. Some electrical loads in various combinations would explain such a pattern of magnetic modes associated with the aircraft. The apparent grouping of flights is fairly well defined on each of the histograms and the separation between central values of adjacent groups is about 35 γ . It is rather doubtful that the actual aircraft-field error would assume a different value for each one of the 29 survey flights. In any case the accuracy of residual derived estimates does not warrant the application of 29 different corrections, one for each flight. On the other hand the standard errors $S(\delta P_0)$ are generally small enough that one may consider the δP values within a selected 30 γ or 40 γ range as being estimates of the same P -component error. There are similar indications of a quantized error in the Q -component. It is reasonable then to suppose that several definite modes of aircraft magnetism did exist during the survey, and that each mode may be distinguished from the others by the foregoing analysis of residuals. Furthermore, the particular mode which is prevalent during a given flight can in most cases be easily identified.

These conclusions are of course based upon the assumption that the contributions from local anomalies are random along any flight line. If a systematic trend is imposed upon the residuals by the presence of an anomaly which extends over a large segment of profile, the basic assumption is invalid and the residual means can yield a very poor estimate of the aircraft-field error. When an extensive anomaly appears as a similar pattern on two adjacent flight lines which were flown in opposite directions, the anomaly's contribution tends to

cancel out in taking the mean estimate δP_0 or δQ_0 . Consequently the error of estimate in values of δP_0 and δQ_0 is increased inasmuch as the pattern of a large anomaly changes in length or amplitude from one flight line to the next. When the residual profiles are plotted on a map, as in Figures 12 to 14, the large and widespread anomalies become apparent. Such an anomaly extends over an area approximately 400 km long and 200 km wide, centred in Sweden at about 62°N, 13°E. It was traversed several times by flights 12, 21, 15 and 16, and an adverse effect on the δQ_0 estimates can be seen in the relatively large standard error $S(\delta Q_0)$ associated with flights 12, 21 and most of all 16. Before assigning a correction factor in such cases the relevant U or V residual profiles were carefully examined to assess the amount of bias in the δQ_0 or δP_0 estimate.

The survey flights were sorted into seven groups as suggested by the δQ_0 histogram, and within each group the mean of the δQ_0 values was obtained. This group mean, identified by the symbol $\bar{\delta Q}$, is the value applied within the group to compensate for error in the swing-derived estimate of the aircraft's transverse magnetic component ΔQ . In the sorting process some flights appear between two clusters on the histogram, and a choice must be made as to which group such a flight should be assigned. The decision was then based on the statistical test (see Crow, *et al.*, 1960):

$$y = \frac{\bar{x}_1 - \bar{x}_2}{\left(\frac{\sigma_1^2}{m_1} + \frac{\sigma_2^2}{m_2}\right)^{1/2}} \tag{13}$$



FIGURE 12. Nordic survey Declination profiles of the 5-minute average residuals.

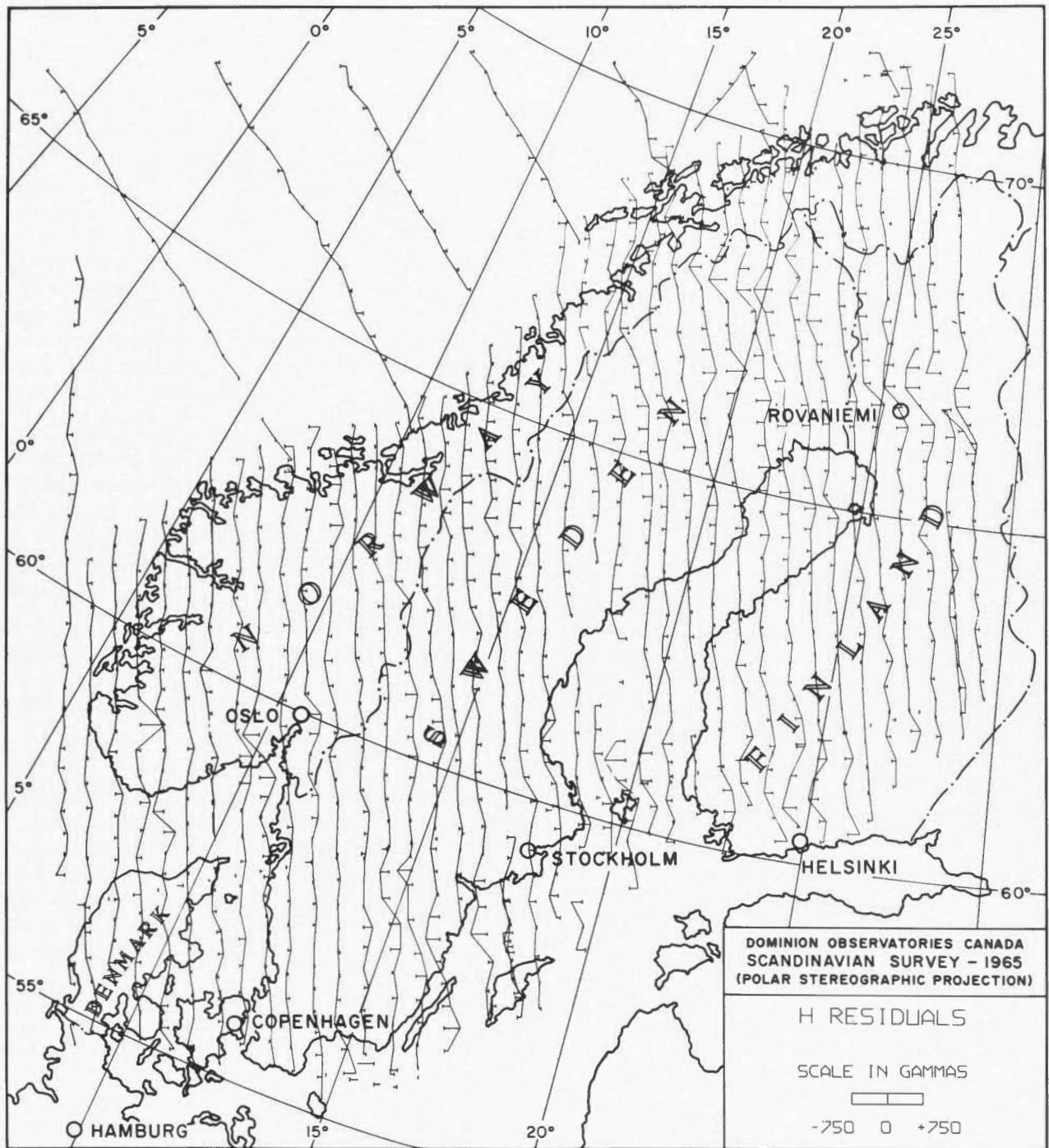


FIGURE 13. Nordic survey Horizontal Intensity profiles of the 5-minute average residuals.

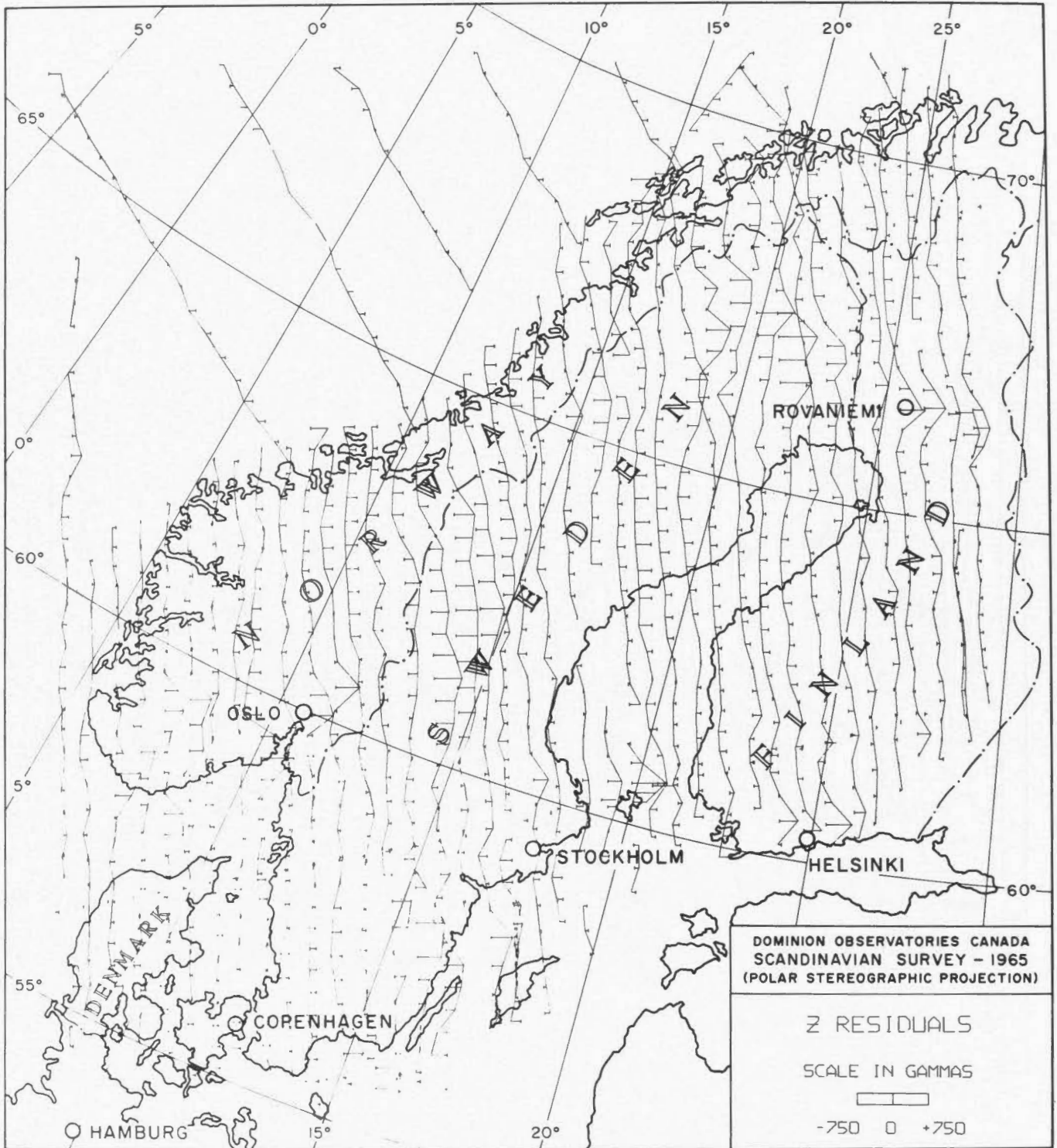


FIGURE 14. Nordic survey Vertical Intensity profiles of the 5-minute average residuals.

wherein the value obtained for the statistic y indicates the significance level at which the two means $\bar{x}_1 = \frac{1}{m_1} \sum x_i$ and $\bar{x}_2 = \frac{1}{m_2} \sum x_j$ can be accepted as estimators of the true mean of one population, when the standard deviation of the x_i and x_j are σ_1 and σ_2 , respectively. Applied to the δQ_0 weighted means as a criterion for grouping, expression (13) receives the following substitutions: $\bar{x}_1 = \delta Q_0$ of the flight being tested, $\bar{x}_2 = \delta Q_0$ of the flight nearest the mean value $\overline{\delta Q_0}$ of one of the two adjacent groups, $\sigma_1^2/m_1 = S(\delta Q_0)$ of the flight being tested, and $\sigma_2^2/m_2 = S(\delta Q_0)$ of the corresponding δQ_0 which replaces \bar{x}_2 . After comparing an uncertain flight with one which best represents the δQ_0 group immediately above it, and then with one which best represents the group immediately below, the flight in question is assigned to the group which corresponds to the lower value of y in the test (13).

Residual-derived corrections were determined for the forward component by a similar process of sorting and averaging δP_0 values within each group. Five δP_0 groups were obtained, and the corresponding mean values $\overline{\delta P}$ are indicated by five arrows below the δP scale in Figure 11. The seven values of $\overline{\delta Q}$ are also shown by the location of arrows along the δQ scale.

The appropriate values of $\overline{\delta P}$ and $\overline{\delta Q}$ for each flight were then applied in the equations

$$\delta D \text{ (in radians)} = -(1/H^*) (\overline{\delta P} \sin \Psi_m^* + \overline{\delta Q} \cos \Psi_m^*)$$

$$\text{and } \delta H = -\overline{\delta P} \cos \Psi_m^* + \overline{\delta Q} \sin \Psi_m^*$$

where δD and δH are the residual-derived corrections applied to D^* and H^* , respectively (in addition to ΔD and ΔH obtained from swing results). No residual-derived corrections have been applied to the final Z values since they were generally calculated from the more reliable proton magnetometer observations, F_p , and the residual-corrected H values, as in Equation (10).

The question arises as to whether the calibration swings could have been eliminated, and the aircraft field corrections determined entirely on the basis of residuals. The swing-derived corrections serve as a first approximation in removing the heading-dependent errors from the original data, and a smaller standard error is thereby achieved in the subsequent residual-derived estimates of aircraft magnetism. The reduction in $S(\delta Q)$, for example, is easily seen in the case of Greenland survey flights which are entirely spent on one flight line. The original uncorrected data would yield residual-based estimates of the aircraft Q -component with standard errors roughly 60% greater than those obtained with swing-corrected data. Under such circumstances the resolution of the residual analysis becomes too coarse to distinguish between errors that differ by as little as 30 or 40 gammas. Furthermore the constant errors which are independent of aircraft heading can not be detected by analysis of residuals and these errors amounted to 2.6° in D and 45γ in H , according to swing results.

Corrections for Vertical Gradient

For the comparison of calibration flight measurements with corresponding values at ground level, the vertical gradients at Voltti and St. Rosaire were calculated on the basis of the following equations:

$$\partial X/\partial r = -(1/a)(X - \partial Z/\partial \theta) \quad (14)$$

$$\partial Y/\partial r = -(1/a)(Y + \operatorname{cosec} \theta \partial Z/\partial \lambda) \quad (15)$$

$$\partial Z/\partial r = -(1/a)(2Z + X \cot \theta + \partial X/\partial \theta - \operatorname{cosec} \theta \partial Y/\partial \lambda) \quad (16)$$

where X , Y and Z are the conventional north, east and vertical geomagnetic components, θ is colatitude, λ is east longitude, r is radius, and at the earth's surface $r = a$.

Equation (16) follows from Maxwell's equation $\operatorname{div} F = 0$, and Equations (14) and (15) follow from the assumption that the horizontal component of curl F is equal to zero. Local gradients along the flight path were scaled from the continuous strip-chart profiles recorded during calibration flights, and these were resolved to obtain the values of $\partial X/\partial \theta$, $\partial Y/\partial \lambda$, $\partial Z/\partial \theta$, and $\partial Z/\partial \lambda$ which were inserted in Equations (14), (15) and (16). The corrections so determined for Voltti amount to 14γ in H and 53γ in Z at an altitude of 10,000 feet (3050 metres).

However, the appended survey data have been corrected from flight altitude to sea level on the assumption of an inverse-cube diminution of field strength. In using this latter method, the observed local values of X , Y and Z are applied in the equations

$$\partial X/\partial r = -3X/a \quad (17)$$

$$\partial Y/\partial r = -3Y/a \quad (18)$$

$$\partial Z/\partial r = -3Z/a \quad (19)$$

so that nondipole contributions to the field are taken into account, but the assumption is made that these contributions also diminish as $1/r^3$. At 10,000 feet over Voltti the inverse-cube corrections are larger (by 5γ in H and 17γ in Z) than those based upon local gradients at flight altitude inserted into Equations (14), (15) and (16). The 'local gradient' method was considered more reliable over the swing areas which were specially chosen for the absence of local anomalies, unlike the survey areas in general, where local magnetic sources create ground-level gradients very different from those at flight altitude. Haines (1968) has shown that average errors in reducing all the airborne measurements to sea level by the inverse-cube method are less than 5γ in X and Y , and less than 10γ in Z .

Smooth reference fields were considered as a basis for deriving corrections to sea level in accordance with Equations (14), (15) and (16) (Haines, 1968; Anon., 1967). However the comparative differences are negligible, and the inverse-cube correction was chosen here because it is easily applied, and may of course be easily removed if so desired.

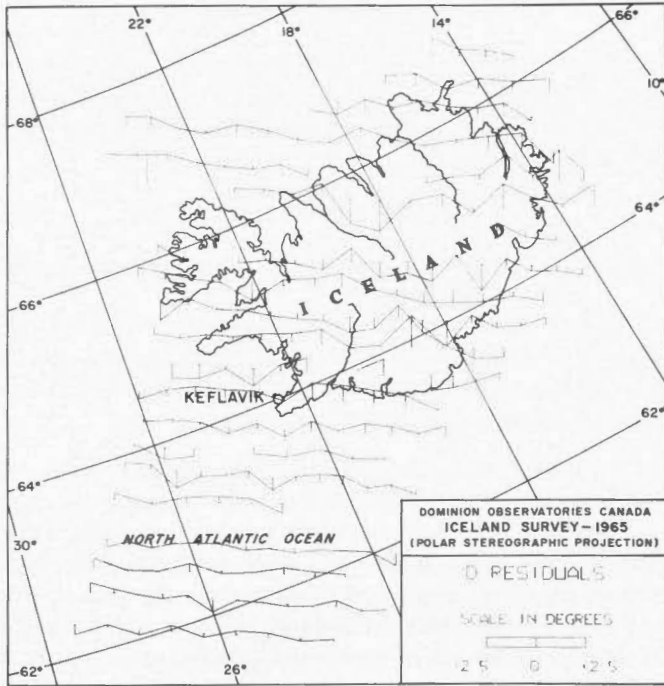


FIGURE 15. Iceland survey Declination profiles of the 5 minute average residuals.

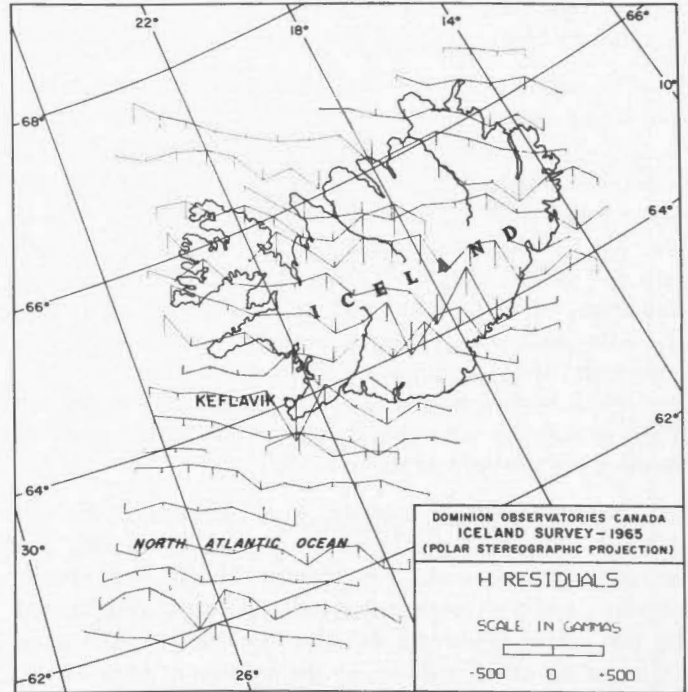


FIGURE 16. Iceland survey Horizontal Intensity profiles of the 5-minute average residuals.

Survey Results

With all corrections for aircraft magnetism and flight altitude applied, the 5-minute averages are listed in the Appendix. These data were applied to a second regression process of least-squares fitting to a 3rd degree polynomial, and the residuals in D, H and Z for the three survey areas are indicated by profiles in Figures 12 to 20 inclusive. The rms values of these residuals are listed in Table 3 along with the corresponding rms values obtained from the first regression. The residuals related to the horizontal geomagnetic vector are

Table 3

RMS RESIDUALS OF 5-MINUTE AVERAGES FROM 3rd DEGREE POLYNOMIAL

	D	H	Z	U	V
Nordic Survey					
Regression 1	0.7°	117 γ	157 γ	163 γ	120 γ
Regression 2	0.6	111	159	140	111
Iceland Survey					
Regression 1	1.0	142	125	195	174
Regression 2	0.5	147	124	113	119
Greenland Sea Survey					
Regression 1	0.9	125	114	143	120
Regression 2	0.8	109	114	112	96

Regression 1 applies to swing-corrected data. Regression 2 applies to swing-corrected and residual-corrected data.

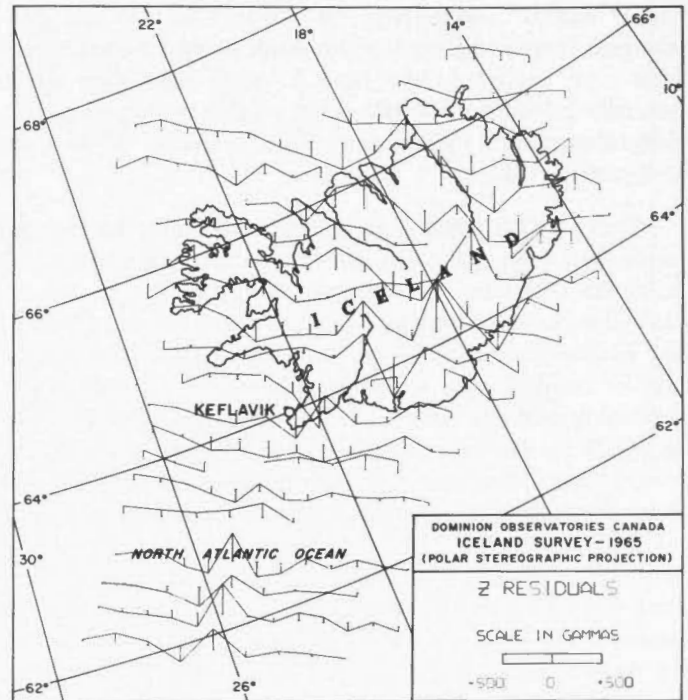


FIGURE 17. Iceland survey Vertical Intensity profiles of the 5-minute average residuals.

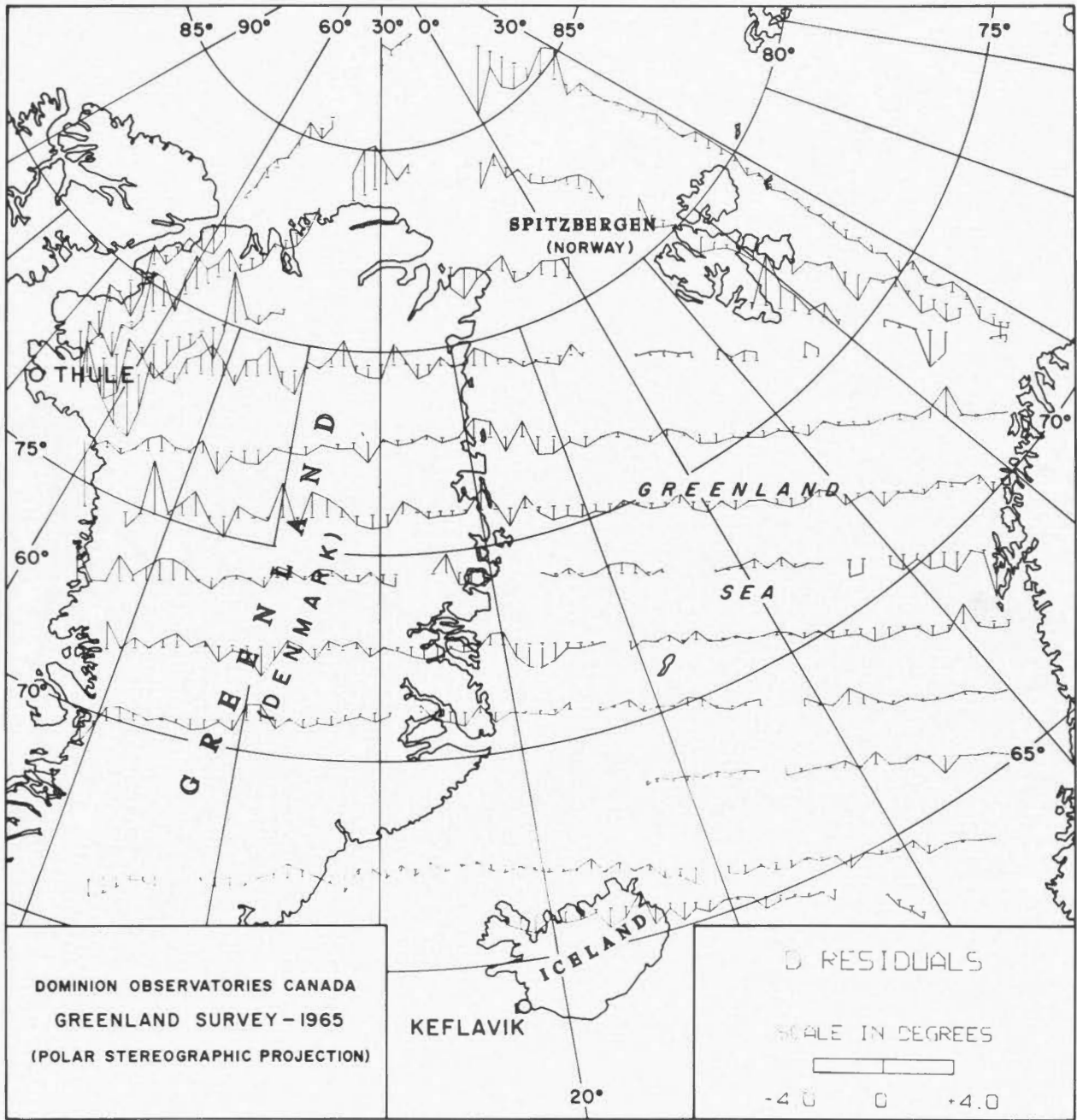


FIGURE 18. Greenland Sea survey Declination profiles of the 5-minute average residuals.

reduced by the application of residual-derived corrections, especially for the Iceland survey in which the aircraft magnetism was extreme. However the reduction is not apparent in the Iceland rms H residual since it includes H measurements which were made outside the actual survey area, where the reference field does not fit well, and these same H measurements could not be used in the determination of polynomial coefficients because simultaneous values of D were missing due to overcast.

A comparison of the entire survey data with a 10th degree spherical harmonic model (Cain's model GSFC 12/66 Set 1 Rounded) was made by Goddard Space Flight Center, and the

rms differences obtained were 1.0° in D, 126 γ in H, and 151 γ in Z.

To test the total accuracy of the data, instantaneous values were compared at 70 points where two flight paths intersect. Five-minute averages centred about these points were also compared, and rms values of the discrepancies are listed in Table 4. All 15 flights which make up the Nordic survey and three flights from the Greenland Sea survey are involved in these comparisons. Assuming that the intersection values are a random sampling of the data from both surveys, the standard error of a single value is obtained when the rms discrepancy is divided by $\sqrt{2}$, since each discrepancy is the combined error

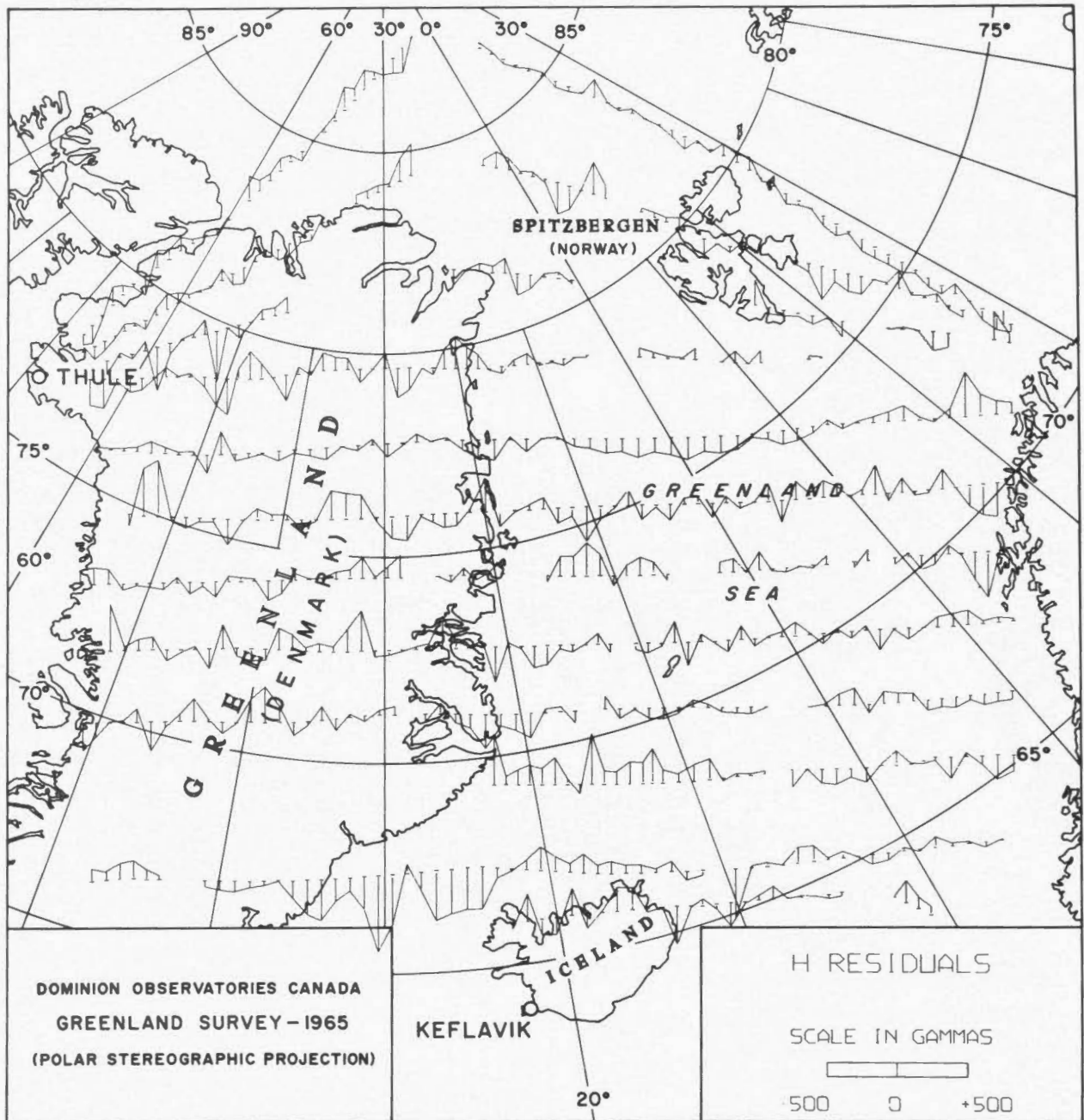


FIGURE 19. Greenland Sea survey Horizontal Intensity profiles of the 5-minute average residuals.

of two observations. Standard errors so obtained are also listed in Table 4. Since the average intersection value of H is approximately 13500 gammas, the standard error in D is equivalent to 99γ for instantaneous values and 92γ for 5-minute averages. These compare unfavourably with the corresponding errors in H , 73γ and 57γ , respectively. Declination measurements are less accurate for two reasons: an error in navigation or timing results not only in a mistaken intersection point but also in an erroneous azimuth reference, and in addition the relative complexity of the magnetometer's D system allows more instrumental error.

In the comparison of intersecting 5-minute averages, equal values should not be expected unless the gradient is constant along both 5-minute segments, or the field possesses a circular symmetry about the point of intersection. Nevertheless the agreement is significantly better between H averages than between instantaneous H values, and in D , Z and F the comparison favours 5-minute averages, though not significantly. The effect of navigation errors may be reduced by the smoothing of the averaging process, but no significant correlation exists between the instantaneous discrepancies and the corresponding local gradients. In the range of geomagnetic

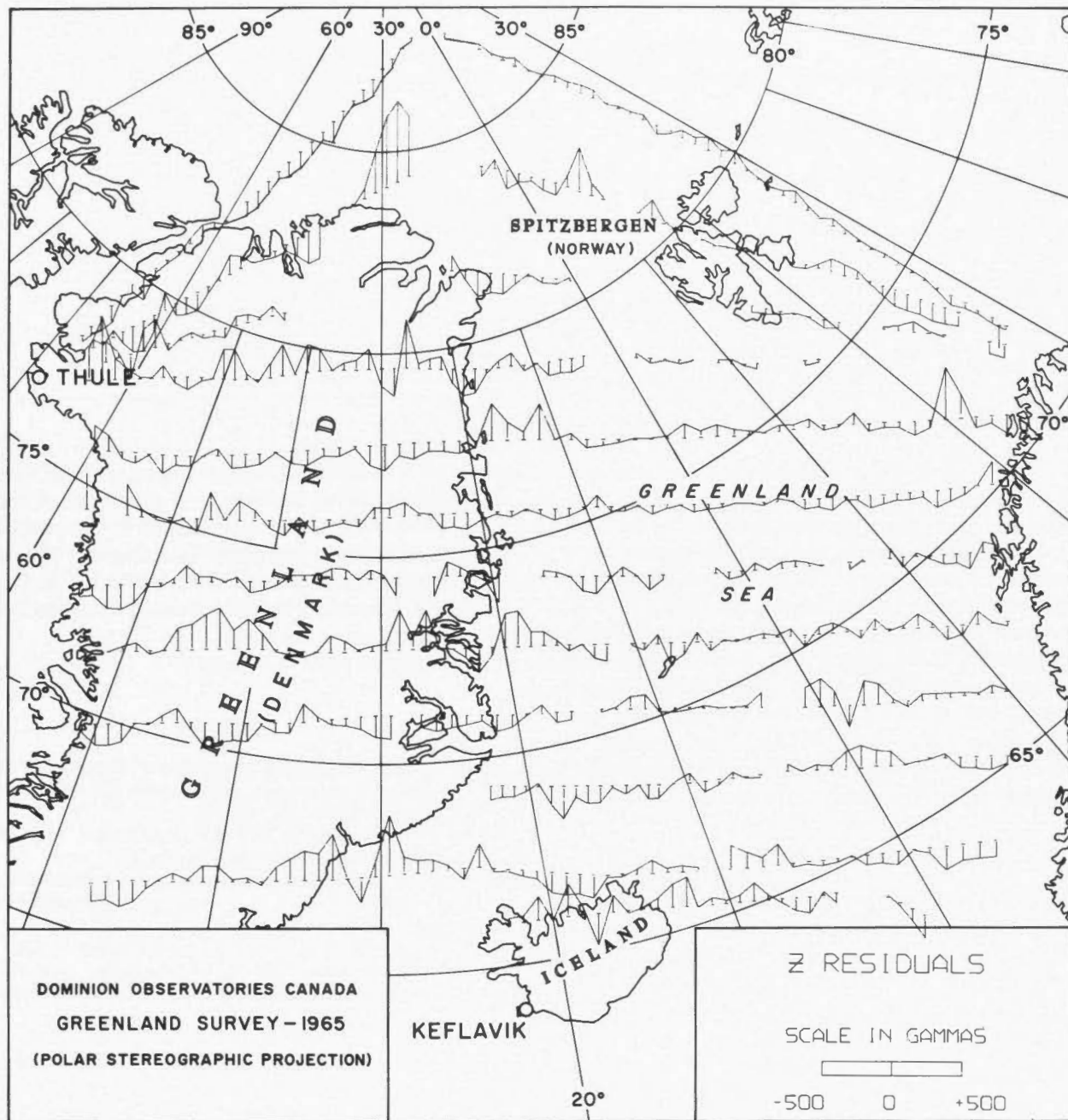


FIGURE 20. Greenland Sea survey Vertical Intensity profiles of the 5-minute average residuals.

latitudes covered by the surveys, measurements of the H component are most sensitive to deflections of the gyro-stabilized sensors, but short-term wobbles of this kind would not affect the 5-minute averages. Therefore it is quite probable that deviations of the vertical reference are mainly responsible for the larger error in instantaneous values of H.

The survey data were not corrected for daily variation or disturbance. However the intersection values were corrected in accordance with hourly means at Rude Skov, Lovo, Nurmijarvi or Tromso. Distance to the nearest magnetic observatory was never greater than 320 km, and the changes effected in the

discrepancy values ranged up to 0.2° in D and 35γ in H and Z. However the net result of corrections for disturbance was no significant change in the agreement at intersections. Rms discrepancies of disturbance-corrected intersection values are given in Table 4.

None of the Iceland survey flights was involved in the preceding 70 intersections. Accuracy of the Iceland survey is considered separately because consistently bad weather impaired the navigation in that area, and also required the frequent use of aircraft de-icing equipment which contributes an additional aircraft-field error. Consequently, standard errors

Table 4
RMS DISCREPANCIES AND STANDARD ERRORS

	D (degrees)		H (gammas)		Z (gammas)		F (gammas)	
	Inst.*	Av.*	Inst.	Av.	Inst.	Av.	Inst.	Av.
Nordic and Greenland Sea Surveys – 70 Intersections								
Rms Discrepancy	0.60	0.55	103	82	60	59	53	52
Rms Discrepancy, Corrected for Disturbance	0.62	0.55	104	85	58	55		
Standard Error of a Single Observation	0.42	0.39	73	57	42	42	37	37
Iceland Survey – 14 Intersections								
Rms Discrepancy	0.55	0.60	168	122	105	73	104	76
Rms Discrepancy, Corrected for Disturbance	0.59	0.61	172	127	95	60		
Standard Error of a Single Observation	0.39	0.42	119	86	74	52	74	52

*Inst. = instantaneous value : Av. = 5-minute average.

obtained from 14 intersections around Iceland are larger in H and Z than those of the Nordic and Greenland Sea surveys. Iceland intersection discrepancies and standard errors are listed in Table 4. Magnetograms from Leirvogur Observatory were used to correct the intersection values, but again the results are not significantly different (by the variance-ratio F-test).

Half-minute averages in D,H,Z, and F representing profile segments approximately 3 km in length were scaled by hand from the continuous records, corrected for aircraft magnetism and altitude, and tabulated with the corresponding geographical positions. The bulk of data thus obtained is extremely large when presented in tabulated form. However, residual profiles are being prepared for publication.

Acknowledgments

Arrangements between the participating scientific agencies of Denmark, Norway, Sweden, Finland and Canada were successful in launching the combined survey operation largely because of the initiative and co-ordination provided by Dr. Nils Ambolt, recently retired from the Swedish Board of Shipping and Navigation, and by Dr. P.H. Serson of the Dominion Observatory, Canada. The authors wish to thank the

personnel of Pacific Western Airlines who outfitted the aircraft and supplied flying services in a conscientious and most co-operative spirit, in particular Captain W. Campbell, Captain A. Bell, and Chief Navigator J.A. Carreau. The airborne magnetometer crew consisted of F. Andersen, G.L. Carr, G.V. Haines, W. Hannaford and P.H. Serson, all of the Dominion Observatory.

References

- ANONYMOUS, 1967. World Magnetic Survey, Report of a colloquium held at Herstmonceux, 1966, October 4, 5 and 6. *Geophys. J. Roy. Astr. Soc.* 12: 521-537.
- CROW, E.L., F.A. DAVIS, and M.W. MAXFIELD, 1960. *Statistics Manual*. p. 53, New York, Dover, p. 53.
- HAINES, G.V., 1968. Polynomial estimation of certain geomagnetic quantities, applied to a survey of Scandinavia. *Pub. Dom. Obs.* 37 (4): 79-112.
- HANNAFORD, W., F. ANDERSEN, and P.H. SERSON, 1967. A new three-component airborne magnetometer. Presented at the IUGG 1967 (Abstract only: Int. Assoc. Geomag. and Astronomy Bull. No. 24, 48, Paris, 1967.)
- SERSON, P.H., S.Z. MACK, and K. WHITHAM, 1957. A three-component airborne magnetometer. *Pub. Dom. Obs.* 19 (2).

Appendix

Airborne Geomagnetic Survey Data All magnetic results apply to sea level

Heading	Explanation
FL	Flight number as listed on index maps
LAT	Latitude in degrees and minutes (4558 N \equiv 45° 58'N)
LONG	Longitude in degrees and minutes (7757 W \equiv 77° 57'W)
ALT	Altitude in feet above sea level
GMT	Greenwich mean time in hours and minutes (1445 \equiv 14 h 45 m)
DA	Day
MO	Month
YR	Year
D	Magnetic Declination in degrees and minutes (2054W \equiv 20° 54'W)
H	Horizontal Intensity in gammas (1 γ = 10 ⁻⁵ oersted)
Z	Vertical Intensity in gammas
F	Total intensity in gammas
I	Magnetic Inclination in degrees and minutes (7319 N \equiv 73° 19'N) $I = \tan^{-1} Z/H.$
X	Geographic North Component in gammas ($X = H \cos D$)
Y	Geographic East Component in gammas ($Y = H \sin D$)

FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
5	6603N	4800W	15000	530	19	09	65			54307N				
5	6610N	4715W	15000	535	19	09	65	4438W	9710	54229N	55091	7951N	6911N	6821W
5	6618N	4629W	15000	540	19	09	65	4416W	9716	54095N	54961	7949N	6958N	6781W
5	6625N	4543W	15000	545	19	09	65	4342W	9805	53921N	54805	7942N	7089N	6773W
5	6631N	4458W	15000	550	19	09	65	4257W	9865	53831N	54727	7937N	7221N	6721W
5	6634N	4414W	15000	555	19	09	65	4231W	9870	53812N	54709	7936N	7275N	6670W
5	6638N	4330W	15000	600	19	09	65	4229W	9883	53759N	54660	7935N	7288N	6675W
5	6642N	4237W	15000	605	19	09	65			53678N				
5	6647N	4144W	15000	610	19	09	65			53502N				
5	6650N	4051W	15000	615	19	09	65	4037W	9994	53471N	54397	7925N	7585N	6507W
5	6654N	3958W	15000	620	19	09	65	4031W	10026	53340N	54274	7921N	7622N	6514W
5	6657N	3904W	15000	625	19	09	65	3955W	10077	53116N	54064	7915N	7729N	6466W
5	6700N	3810W	14900	630	19	09	65	3919W	10168	53001N	53968	7908N	7866N	6443W
5	6703N	3719W	15000	635	19	09	65	3822W	10240	52833N	53816	7902N	8029N	6356W
5	6706N	3627W	15000	640	19	09	65	3737W	10321	52841N	53839	7857N	8175N	6299W
5	6708N	3536W	15000	645	19	09	65	3628W	10261	52782N	53770	7900N	8252N	6098W
5	6711N	3444W	15000	650	19	09	65	3623W	10189	52726N	53702	7904N	8203N	6044W
5	6713N	3352W	15000	655	19	09	65	3613W	10199	52592N	53572	7901N	8229N	6026W
5	6715N	3300W	14900	700	19	09	65	3558W	10383	52616N	53630	7850N	8404N	6097W
5	6717N	3208W	14900	705	19	09	65	3605W	10506	52188N	53235	7837N	8400N	6189W
5	6719N	3116W	14900	710	19	09	65	3407W	10419	51907N	52942	7839N	8626N	5842W
5	6721N	3024W	14900	715	19	09	65	3342W	10151	52084N	53064	7858N	8644N	5634W
5	6723N	2932W	14900	720	19	09	65	3339W	10377	52036N	53325	7847N	8638N	5750W
5	6724N	2839W	14900	725	19	09	65	3219W	10863	51902N	53027	7811N	9181N	5806W
5	6725N	2747W	14900	730	19	09	65	3225W	10720	51676N	52776	7817N	9050N	5747W
5	6726N	2650W	14900	735	19	09	65	3104W	10545	51565N	52633	7827N	9033N	5441W
5	6727N	2554W	14900	740	19	09	65	3101W	10633	51415N	52503	7819N	9113N	5478W
5	6727N	2457W	14900	745	19	09	65	3005W	10710	51205N	52313	7811N	9268N	5368W
5	6727N	2400W	14900	750	19	09	65	2916W	10756	51104N	52224	7807N	9383N	5259W
5	6723N	2307W	14900	755	19	09	65	2854W	11059	51051N	52135	7747N	9681N	5346W
5	6719N	2215W	14900	800	19	09	65	2820W	11188	50959N	52173	7737N	9847N	5311W
5	6715N	2122W	14900	805	19	09	65	2717W	11344	50834N	52084	7725N	10082N	5199W
5	6710N	2031W	14900	810	19	09	65	2638W	11523	50724N	52016	7712N	10301N	5164W
5	6705N	1939W	14900	815	19	09	65	2604W	11538	50533N	52183	7708N	10364N	5071W
5	6700N	1848W	14800	820	19	09	65	2519W	11561	50423N	52173	7705N	10451N	4944W
5	6655N	1800W	14800	825	19	09	65	2428W	11703	50334N	52169	7655N	10652N	4848W
5	6650N	1712W	14800	830	19	09	65	2310W	11697	50236N	52158	7654N	10753N	4603W
5	6645N	1624W	14800	835	19	09	65	2317W	11792	50296N	52166	7648N	10832N	4661W
5	6641N	1533W	14800	840	19	09	65	2208W	11824	50213N	52158	7645N	10953N	4456W
5	6636N	1440W	14800	845	19	09	65	2152W	11891	50172N	52156	7640N	11035N	4428W
5	6631N	1348W	14800	850	19	09	65	2054W	11922	50052N	52152	7638N	11138N	4251W
5	6626N	1256W	14800	855	19	09	65	1922W	12033	50007N	52143	7628N	11231N	4318W
5	6620N	1204W	14800	900	19	09	65	2016W	11966	49939N	52135	7632N	11225N	4145W
5	6614N	1111W	14800	905	19	09	65	2004W	12065	49838N	52178	7623N	11332N	4140W
5	6601N	922W	14800	915	19	09	65	1809W	11881	49816N	52123	7635N	11290N	3700W
5	6554N	828W	14800	920	19	09	65	1734W	12329	49680N	52187	7604N	11754N	3722W
5	6547N	736W	14800	925	19	09	65	1631W	12418	49559N	52109	7556N	11906N	3529W
5	6541N	646W	14800	930	19	09	65	1609W	12448	49576N	52114	7554N	11956N	3464W
5	6535N	556W	14800	935	19	09	65	1534W	12622	49327N	52091	7539N	12159N	3388W
5	6528N	506W	14800	940	19	09	65	1421W	12688	49276N	52088	7534N	12293N	3144W
5	6521N	418W	14800	945	19	09	65	1403W	12657	49189N	52079	7534N	12279N	3072W
5	6514N	332W	14800	950	19	09	65	1316W	12754	49146N	52077	7527N	12414N	2927W
5	6507N	246W	14800	955	19	09	65	1330W	12772	49124N	52075	7526N	12410N	2928W
5	6500N	200W	14700	1000	19	09	65	1208W	12761	48987N	52062	7524N	12476N	2684W
5	6451N	111W	14700	1005	19	09	65	1144W	12858	48931N	52059	7517N	12590N	2614W
5	6443N	23W	14700	1010	19	09	65	1102W	13002	48852N	52055	7506N	12761N	2489W
5	6434N	25E	14700	1015	19	09	65	956W	13038	48884N	52059	7504N	12843N	2248W
5	6425N	112E	14700	1020	19	09	65	1015W	13203	48798N	52055	7452N	12992N	2349W
5	6415N	201E	14700	1025	19	09	65	913W	13223	48608N	52037	7447N	13052N	2122W
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5	6354N	537E	14700	1035	19	09	65	804W	13337	48558N	52035	7438N	13206N	1870W
5	6344N	424E	14700	1040	19	09	65	729W	13460	48508N	52034	7430N	13345N	1755W
5	6334N	504E	14600	1045	19	09	65			48357N				
5	6324N	543E	14500	1050	19	09	65	610W	13559	48356N	52021	7420N	13481N	1457W
5	6314N	622E	14400	1055	19	09	65	601W	13667	48385N	52027	7414N	13592N	1432W
5	6304N	701E	14300	1100	19	09	65	522W	13816	48375N	52030	7404N	13755N	1292W
7	6753N	542E	9900	555	22	09	65	540E	11843	50691N	52056	7651N	11786N	1169E
7	6811N	532E	9900	600	22	09	65	524E	11743	50786N	52126	7659N	11691N	1104E
7	6828N	522E	9900	605	22	09	65	449E	11583	50915N	52216	7711N	11542N	973E
7	6844N	511E	9900	610	22	09	65	509E	11442	50989N	52257	7721N	11396N	1026E
7	6901N	500E	9900	615	22	09	65	439E	11384	50992N	52247	7725N	11346N	924E
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7	6955N	421E	9900	630	22	09	65	500E	11071	51285N	52466	7749N	11029N	964E
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7	7049N	2339E	9900	645	22	09	65	500E	10779	51434N	52552	7810N	10738N	938E
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FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
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7	6620N	2749E	10000	1505	22	09	65	506E	12580	50906N	52440	7607N	12518N	1337E
7	6602N	2811E	10000	1510	22	09	65	549E	12807	50543N	52140	7647N	12741N	1299E
7	6459N	2810E	10000	1525	22	09	65	648E	12908	50100N	51736	7533N	12817N	1527E
7	6439N	2808E	10000	1530	22	09	65	614E	13086	50034N	51717	7521N	13009N	1419E
7	6422N	2810E	10000	1535	22	09	65	553E	13399	49903N	51667	7458N	13328N	1375E
7	6403N	2815E	10000	1540	22	09	65	545E	13338	49865N	51618	7502N	13270N	1338E
7	6343N	2824E	10000	1545	22	09	65	606E	13415	49844N	51617	7456N	13339N	1426E
7	6323N	2833E	9900	1550	22	09	65	615E	13637	49767N	51601	7441N	13556N	1483E
7	6303N	2840E	9900	1555	22	09	65	604E	13774	49641N	51516	7430N	13697N	1455E
7	6243N	2848E	9900	1600	22	09	65	617E	13913	49499N	51417	7418N	13830N	1524E
7	6223N	2856E	9900	1605	22	09	65	643E	14044	49398N	51356	7408N	13948N	1643E
7	6203N	2900E	9900	1610	22	09	65	639E	14183	49348N	51346	7358N	14087N	1642E
8	6021N	2527E	10000	755	23	09	65	314E	14940	48465N	50715	7252N	14916N	842E
8	6038N	2539E	10000	800	23	09	65	348E	14911	49039N	51255	7305N	14878N	988E
8	6056N	2511E	10000	805	23	09	65	427E	14434	48739N	50832	7330N	14391N	1121E
8	6112N	2504E	10000	810	23	09	65	420E	14450	48613N	50715	7327N	14409N	1094E
8	6129N	2455E	10000	815	23	09	65	421E	14616	48616N	50766	7316N	14574N	1110E
8	6145N	2454E	10000	820	23	09	65	422E	14408	49001N	51075	7337N	14366N	1099E
8	6201N	2449E	10000	825	23	09	65	417E	14179	48838N	50855	7349N	14139N	1059E
8	6219N	2439E	10000	830	23	09	65	422E	14128	49079N	51072	7356N	14093N	993E
8	6237N	2430E	10000	835	23	09	65	434E	13988	49095N	51043	7407N	13923N	1112E
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8	6824N	2043E	10000	1015	23	09	65	303E	11468	50752N	52031	7716N	11452N	612E
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8	6859N	2012E	10000	1025	23	09	65	143E	11438	50989N	52256	7721N	11433N	348E
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8	6950N	1918E	10000	1040	23	09	65	107E	11064	50901N	52090	7744N	11062N	216E
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8	6627N	2255E	10000	1215	23	09	65	341E	12571	50543N	52082	7602N	12545N	806E
8	6608N	2306E	10000	1220	23	09	65	328E	12728	50323N	51908	7548N	12705N	769E
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8	6233N	2514E	10000	1315	23	09	65	410E	14002	49245N	51197	7408N	13964N	1019E
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9	6046N	2437E	9900	1030	24	09	65	331E	14405	48552Z	50644	7328N	14372N	980E
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9	6214N	2357E	9900	1050	24	09	65	402E	14183	48889Z	50904	7349N	14147N	999E
9	6228N	2347E	9900	1055	24	09	65	434E	13973	48855Z	50814	7402N	13929N	1114E
9	6243N	2337E	9900	1100	24	09	65	413E	13967	48888Z	50844	7403N	13930N	1025E
9	6300N	2327E	9900	1105	24	09	65	414E	13921	49063Z	51000	7410N	13883Z	1029E
9	6317N	2317E	9900	1110	24	09	65	434E	13740	49159Z	51043	7423N	13696N	1095E
9	6334N	2307E	9900	1115	24	09	65	406E	13674	49147Z	51014	7427N	13639N	978E
9	6351N	2257E	9900	1120	24	09	65	413E	13565	49219Z	51054	7436N	13528N	999E
9	6408N	2246E	9900	1125	24	09	65	356E	13482	49304Z	51114	7442N	13450N	926E
9	6426N	2235E	9900	1130	24	09	65	345E	13430	49433Z	51225	7448N	13401N	876E
9	6445N	2223E	9900	1135	24	09	65	327E	13285	49602Z	51350	7500N	13261N	798E
9	6503N	2211E	9900	1140	24	09	65	345E	13235	49848Z	51575	7508N	13207N	864E
9	6521N	2159E	9900	1145	24	09	65	314E	13018	49967Z	51635	7524N	12997N	734E
9	6539N	2147E	9900	1150	24	09	65	326E	12874	50077Z	51706	7535N	12851N	771E
9	6558N	2135E	9900	1155	24	09	65	322E	12861	50173Z	51796	7537N	12839N	747E
9	6616N	2121E	9900	1200	24	09	65	248E	12702	50390Z	51966	7551N	12686N	622E
9	6635N	2108E	9900	1205	24	09	65	317E	12620	50840Z	52383	7604N	12600N	723E
9	6654N	2054E	9900	1210	24	09	65	245E	12288	50812Z	52277	7624N	12272N	588E
9	6713N	2040E	9900	1215	24	09	65	206E	12091	51173Z	52582	7642N	12083N	443E
9	6732N	2025E	9900	1220	24	09	65	51E	11877	50806Z	52176	7651N	11876N	177E
9	6751N	2010E	9900	1225	24	09	65	129E	11527	50672Z	51067	7711N	11523N	298E
9	6809N	1954E	9900	1230	24	09	65	132E	11699	50666Z	51999	7700N	11695N	313E
9	6828N	1937E	9900	1235	24	09	65	315E	11691	50891Z	52217	7704N	11672N	661E
9	6846N	1919E	9900	1240	24	09	65	221E	11392	50969Z	52226	7724N	11382N	467E
9	6904N	1902E	9900	1245	24	09	65	209E	11380	50868Z	52126	7723N	11372N	427E
9	6924N	1843E	9900	1250	24	09	65	221E	11376	50993Z	52246	7725N	11366N	466E
9	6943N	1825E	9900	1255	24	09	65	202E	11316	51355Z	52587	7734N	11309N	401E
9	7002N	1806E	9900	1300	24	09	65	137E	10961	51524Z	52677	7759N	10957N	309E
9	6951N	1716E	9900	1320	24	09	65	202E	11128	50968Z	52168	7741N	11121N	396E
9	6933N	1735E	9800	1325	24	09	65	14W	11175	51274Z	52478	7742N	11175N	44W
9	6915N	1754E	9800	1330	24	09	65	35E	11398	50852Z	52113	7722N	11397N	116E
9	6857N	1813E	9800	1335	24	09	65	106E	11358	50988Z	52237	7727N	11355N	217E
9	6839N	1831E	9800	1340	24	09	65	100E	11558	50871Z	52167	7712N	11556N	201E
9	6821N	1849E	9800	1345	24	09	65	235E	11728	50616Z	51057	7657N	11716N	530E
9	6803N	1907E	9800	1350	24	09	65	235E	11629	50629Z	51948	7704N	11617N	524E
9	6746N	1924E	9800	1355	24	09	65	216E	11648				11639N	462E
9	6728N	1941E	9800	1400	24	09	65	209E	12138	51137N	52558	7639N	12130N	434E
9	6710N	1957E	9800	1405	24	09	65	237E	12240	50621N	52080	7624N	12227N	560E
9	6652N	2011E	9800	1410	24	09	65	222E	12489	50481N	52003	7606N	12479N	514E
9	6633N	2025E	9800	1415	24	09	65	247E	12615	50311N	51868	7555N	12600N	613E
9	6615N	2039E	9800	1420	24	09	65	343E	12866	50061N	51687	7535N	12839N	832E
9	6557N	2052E	9800	1425	24	09	65	251E	12824	49970Z	51590	7536N	12808N	636E
9	6538N	2106E	9800	1430	24	09	65	346E	12944	49690Z	51348	7524N	12916N	848E
9	6520N	2118E	9800	1435	24	09	65	352E	13155	49810Z	51518	7512N	13125N	887E
9	6501N	2131E	9800	1440	24	09	65	353E	13204	49600Z	51327	7506N	13174N	893E
9	6443N	2142E	9800	1445	24	09	65	258E	13222	49547Z	51281	7503N	13204N	684E
9	6424N	2153E	9800	1450	24	09	65	303E	13472	49390Z	51194	7445N	13453N	715E
9	6405N	2204E	9800	1455	24	09	65	319E	13442	49270Z	51070	7444N	13420N	778E
9	6346N	2214E	9800	1500	24	09	65	311E	13603	49179Z	51026	7432N	13582N	757E
9	6327N	2225E	9600	1505	24	09	65	328E	13674	49069Z	50939	7426N	13649N	826E
9	6308N	2236E	9800	1510	24	09	65	333E	13724	48979Z	50865	7421N	13697N	851E
9	6250N	2247E	9800	1515	24	09	65	326E	13885	48899Z	50832	7409N	13860N	831E
9	6231N	2258E	9800	1520	24	09	65	319E	13906	48879Z	50819	7407N	13883N	803E
9	6212N	2309E	9800	1525	24	09	65	329E	14187	48889Z	50906	7349N	14161N	861E
9	6153N	2320E	9800	1530	24	09	65	328E	14338	48889Z	50948	7339N	14311N	868E
9	6132N	2333E	9800	1535	24	09	65	335E	14518	48569Z	50692	7321N	14489N	908E
9	6113N	2344E	9800	1540	24	09	65	328E	14446	48398Z	50508	7323N	14419N	873E
9	6054N	2353E	9800	1545	24	09	65	355E	14486	48488Z	50606	7322N	14452N	991E
9	6034N	2402E	9800	1550	24	09	65	352E	14846	48759Z	50969	7304N	14812N	1003E
9	6015N	2412E	9800	1555	24	09	65	320E	15185	48198Z	50533	7231N	15159N	882E
10	6040N	2316E	10000	550	27	09	65	336E	14868	48477Z	50706	7257N	14838Z	933E
10	6058N	2308E	10000	555	27	09	65	245E	14506	48544Z	50665	7322N	14490N	694E
10	6117N	2300E	10000	600	27	09	65	306E	14351	48455Z	50535	7330N	14330N	776E
10	6136N	2251E	10000	605	27	09	65	316E	14510	48553Z	50675	7322N	14487N	827E
10	6155N	2241E	10000	610	27	09	65	312E	14267	48917Z	50955	7344N	14245N	796E
10	6215N	2231E	10000	615	27	09	65	255E	14110	48931Z	50925	7355N	14091N	720E
10	6234N	2220E	10000	620	27	09	65	308E	13812	48968Z	50879	7415N	13792N	755E
10	6253N	2208E	10000	625	27	09	65	308E	13829	48928Z	50845	7413N	13809N	755E
10	6311N	2155E	10000	630	27	09	65	301E	13708	48988Z	50870	7422N	13689N	722E
10	6330N	2142E	10000	635	27	09	65	307E	13635	49087Z	50945	7429N	13615N	741E
10	6348N	2129E	10000	640	27	09	65	224E	13536	49192Z	51020	7437N	13524N	566E
10	6407N	2117E	10000	645	27	09	65	212E	13397	49276Z	51065	7447N	13387N	513E

FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
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10	6443N	2050E	10000	655	27	09	65	245E	13294	49542N	51295	7459N	13278N	636E
10	6502N	2035E	10000	700	27	09	65	252E	13112	49663N	51365	7513N	13096N	655E
10	6520N	2019E	10000	705	27	09	65	222E	12946	49718N	51375	7524N	12942N	310E
10	6539N	2005E	10000	710	27	09	65	208E	12855	49814N	51446	7532N	12846N	477E
10	6557N	1931E	10000	715	27	09	65	205E	12682	49807N	51396	7543N	12674N	439E
10	6615N	1937E	10000	720	27	09	65	201E	12705	49656N	51256	7539N	12694N	521E
10	6633N	1927E	10000	725	27	09	65	207E	12871	50182N	51806	7537N	12852N	700E
10	6651N	1908E	10000	730	27	09	65	251E	12410	50267N	51777	7608N	12395N	618E
10	6711N	1854E	10000	735	27	09	65	24E	12226	50525N	51983	7624N	12226N	85E
10	6730N	1839E	10000	740	27	09	65	203E	12109	50757N	52181	7635N	12101N	435E
10	6749N	1825E	10000	745	27	09	65	217E	11541	50849N	52142	7713N	11532N	459E
10	6808N	1808E	10000	750	27	09	65	255E	11619	50393N	51716	7701N	11604N	591E
10	6826N	1751E	10000	755	27	09	65	257E	11756	50434N	51786	7653N	11747N	461E
10	6844N	1733E	10000	800	27	09	65	257E	11594	50605N	51916	7706N	11588N	393E
10	6903N	1715E	10000	805	27	09	65	31E	11443	50787N	52060	7718N	11443N	105E
10	6922N	1653E	10000	810	27	09	65	152E	11228	50774N	52001	7732N	11222N	366E
10	6940N	1632E	10000	815	27	09	65	124E	11119	50630N	51836	7737N	11115N	272E
10	6916N	1558E	10000	840	27	09	65	21W	11262	50754N	51988	7729N	11262N	68W
10	6900N	1615E	10000	845	27	09	65	20E	11470	50646N	51928	7714N	11470N	66E
10	6843N	1632E	10000	850	27	09	65	12E	11677	50465N	51798	7658N	11677N	40E
10	6827N	1649E	10000	855	27	09	65	35E	11706	50313N	51657	7654N	11706N	118E
10	6810N	1706E	10000	900	27	09	65	38E	11795	50149N	51518	7646N	11795N	132E
10	6753N	1722E	10000	905	27	09	65	213E	11630	50157N	51488	7657N	11622N	449E
10	6736N	1737E	10000	910	27	09	65	250E	12027	50558N	51968	7637N	12012N	596E
10	6719N	1752E	10000	915	27	09	65	205E	12162	50237N	51688	7623N	12154N	441E
10	6702N	1820E	10000	920	27	09	65	33E	12338	50668N	52139	7619N	12325N	561E
10	6645N	1820E	10000	925	27	09	65	114E	12228	50384N	51918	7602N	12225N	270E
10	6626N	1836E	10000	930	27	09	65	1W	12758	49810N	51418	7538N	12758N	4W
10	6607N	1851E	10000	935	27	09	65	50E	12620	49689N	51267	7545N	12618N	185E
10	6549N	1906E	10000	940	27	09	65	6W	12629	49740N	51318	7545N	12629N	24W
10	6530N	1921E	10000	945	27	09	65	119E	12859	49825N	51457	7532N	12856N	296E
10	6512N	1935E	10000	950	27	09	65	209E	13002	49663N	51337	7520N	12993N	487E
10	6453N	1945E	10000	955	27	09	65	204E	13248	49598N	51337	7503N	13239N	478E
10	6438N	2001E	10000	1000	27	09	65	209E	13387	49416N	51197	7451N	13377N	504E
10	6422N	2013E	10000	1005	27	09	65	221E	13424	49266N	51062	7445N	13412N	551E
10	6407N	2023E	10000	1010	27	09	65	157E	13485	49193N	51008	7440N	13477N	458E
10	6352N	2037E	10000	1015	27	09	65	139E	13503	49099N	50922	7437N	13497N	387E
10	6335N	2048E	10000	1020	27	09	65	202E	13615	49042N	50896	7429N	13607N	482E
10	6318N	2059E	10000	1025	27	09	65	155E	13679	48946N	50822	7423N	13672N	456E
10	6301N	2110E	10000	1030	27	09	65	211E	13789	48879N	50787	7415N	13779N	525E
10	6244N	2120E	10000	1035	27	09	65	140E	13871	48850N	50782	7409N	13866N	402E
10	6227N	2131E	10000	1040	27	09	65	219E	14047	48764N	50747	7356N	14035N	569E
10	6210N	2141E	10000	1045	27	09	65	229E	14225	48681N	50717	7343N	14212N	616E
10	6154N	2151E	10000	1050	27	09	65	244E	14348	48598N	50672	7333N	14332N	686E
10	6137N	2201E	10000	1055	27	09	65	224E	14430	48433N	50537	7325N	14418N	603E
10	6121N	2208E	10000	1100	27	09	65	236E	14462	48352N	50474	7320N	14463N	455E
10	6104N	2220E	10000	1105	27	09	65	407E	14608	48363N	50521	7312N	14571N	1048E
10	6048N	2231E	10000	1110	27	09	65	340E	14897	48428N	50667	7254N	14866N	954E
10	6031N	2241E	10000	1115	27	09	65	256E	15055	48176N	50474	7239N	15035N	771E
10	6014N	2249E	10000	1120	27	09	65	247E	14997	47982N	50271	7239N	14979N	726E
10	5957N	2257E	10000	1125	27	09	65	230E	14984	47800N	50093	7236N	14970N	655E
10	6024N	2156E	10000	1145	27	09	65	304E	14966	47965N	50246	7240N	14944N	801E
10	6045N	2145E	10000	1150	27	09	65	309E	14705	48193N	50387	7302N	14682N	810E
10	6106N	2134E	10000	1155	27	09	65	359E	14587	48299N	50453	7312N	14568N	757E
10	6127N	2122E	10000	1200	27	09	65	247E	14365	48388N	50475	7328N	14348N	697E
10	6147N	2112E	10000	1205	27	09	65	209E	14227	48484N	50650	7341N	14217N	532E
10	6208N	2101E	10000	1210	27	09	65	211E	14012	48611N	50778	7359N	14001N	574E
10	6228N	2059E	9900	1215	27	09	65	207E	13843	48807N	50808	7411N	13834N	512E
10	6247N	2037E	9900	1220	27	09	65	217E	13744	48886N	50784	7418N	13733N	548E
10	6307N	2022E	9900	1225	27	09	65	226E	13618	48949N	50808	7427N	13606N	580E
10	6326N	2008E	9900	1230	27	09	65	226E	13536	49007N	50842	7434N	13527N	493E
10	6345N	1954E	9900	1235	27	09	65	208E	13426	49092N	50895	7442N	13416N	501E
10	6404N	1933E	9900	1240	27	09	65	211E	13380	49139N	50928	7446N	13370N	511E
10	6423N	1924E	9900	1245	27	09	65	208E	13321	49192N	50964	7451N	13312N	497E
10	6441N	1909E	9900	1250	27	09	65	153E	13325	49334N	51072	7505N	13145N	434E
10	6501N	1855E	9900	1255	27	09	65	133E	13326	49585N	51304	7507N	13167N	358E
10	6520N	1841E	9900	1300	27	09	65	112E	12932	49948N	51595	7529N	12929N	271E
10	6539N	1826E	9900	1305	27	09	65	102E	12947	50146N	51746	7543N	12763N	232E
10	6558N	1811E	9900	1310	27	09	65	104E	12947	50356N	51895	7600N	12545N	234E
10	6616N	1755E	9900	1315	27	09	65	113E	12503	50203N	51737	7601N	12501N	265E
10	6634N	1739E	9900	1320	27	09	65	201E	12215	50205N	51670	7620N	12207N	431E
10	6654N	1723E	9900	1325	27	09	65	132E	12173	50097N	51555	7621N	12168N	325E
10	6713N	1706E	9900	1330	27	09	65	148E	12032	50213N	51635	7632N	12026N	378E
10	6730N	1647E	9900	1335	27	09	65	47E	11813	50162N	51535	7645N	11812N	160E
10	6748N	1628E	9900	1340	27	09	65	32W	11810	50308N	51675	7647N	11810N	108W
10	6808N	1610E	9900	1345	27	09	65	128W	11417	50347N	51625	7713N	11413N	293W
10	6827N	1551E	9900	1350	27	09	65	139W	11548	50358N	51665	7705N	11544N	320W
10	6846N	1531E	9900	1355	27	09	65							

FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
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10	6856N	1422E	10100	1420	27	09	65	14W	11138Z	51015N	52269	7725N	11378N	247W
10	6838N	1444E	10100	1425	27	09	65	212W	11626Z	50494N	51816	7702N	11618N	447W
10	6819N	1504E	10100	1430	27	09	65	40W	11770Z	50567N	51919	7654N	11769N	137W
10	6801N	1524E	10100	1435	27	09	65	9W	11970Z	50273N	51678	7636N	11970N	32W
10	6743N	1542E	10100	1440	27	09	65	33E	11898Z	50187N	51578	7640N	11898N	31E
10	6725N	1600E	10100	1445	27	09	65	21E	12015Z	50067N	51488	7630N	12015N	42E
10	6707N	1616E	10100	1450	27	09	65	43E	12062Z	50056N	51488	7627N	12061N	149E
10	6649N	1632E	10100	1455	27	09	65	21E	12191Z	49952N	51418	7617N	12191N	76E
10	6631N	1647E	10100	1500	27	09	65	34E	12416Z	49980N	51499	7603N	12415N	128E
10	6613N	1701E	10100	1505	27	09	65	31E	12647Z	49932N	51508	7547N	12646N	113E
10	6556N	1717E	10100	1510	27	09	65	121E	12794Z	49718N	51338	7534N	12790N	302E
10	6538N	1733E	10100	1515	27	09	65	200E	13109Z	49533N	51238	7511N	13101N	457E
10	6520N	1748E	10100	1520	27	09	65	134E	13072Z	49410N	51110	7511N	13068N	358E
10	6501N	1804E	10100	1525	27	09	65	120E	13097Z	49298N	51008	7507N	13094N	303E
10	6443N	1819E	10100	1530	27	09	65	122E	13316Z	49223N	50992	7452N	13312N	318E
10	6426N	1833E	10100	1535	27	09	65	118E	13388Z	49115N	50907	7445N	13384N	303E
10	6408N	1847E	10100	1540	27	09	65	143E	13476Z	49034N	50852	7438N	13470N	403E
10	6351N	1901E	10100	1545	27	09	65	123E	13529Z	48958N	50793	7433N	13525N	340E
10	6334N	1914E	10100	1550	27	09	65	140E	13582Z	48912N	50763	7429N	13576N	393E
10	6317N	1927E	10100	1555	27	09	65	157E	13709Z	48861N	50748	7420N	13701N	467E
10	6259N	1940E	10100	1600	27	09	65	203E	13889Z	48738N	50678	7406N	13880N	498E
10	6242N	1952E	10100	1605	27	09	65	216E	13848Z	48676N	50607	7407N	13837N	548E
10	6225N	2004E	10100	1610	27	09	65	228E	13922Z	48707N	50657	7403N	13909N	599E
10	6207N	2015E	10100	1615	27	09	65	151E	14195Z	48670N	50698	7344N	14188N	459E
10	6150N	2026E	10100	1620	27	09	65	200E	14307Z	48490N	50557	7334N	14298N	506E
10	6133N	2037E	10100	1625	27	09	65	235E	14429Z	48381N	50487	7324N	14415N	652E
10	6116N	2047E	10100	1630	27	09	65	210E	14325Z	48292N	50372	7329N	14315N	542E
10	6101N	2055E	10100	1635	27	09	65	212E	14546Z	48346N	50487	7315N	14535N	557E
10	6045N	2103E	10100	1640	27	09	65	133E	14698Z	48118N	50313	7301N	14692N	409E
10	6030N	2111E	10100	1645	27	09	65	222E	14876Z	48183N	50427	7251N	14863N	628E
10	6013N	2121E	10100	1650	27	09	65	234E	14993Z	47917N	50208	7238N	14978N	673E
10	5957N	2131E	10100	1655	27	09	65	257E	14882Z	47862N	50122	7244N	14862N	765E
11	5959N	2048E	10000	640	28	09	65	126E	15011Z	47845N	50144	7235N	15006N	377E
11	6021N	2039E	10000	645	28	09	65	12E	15042Z	47898N	50204	7234N	15042N	53E
11	6042N	2030E	10100	650	28	09	65	25E	14528Z	48360N	50495	7317N	14527N	106E
11	6104N	2018E	10100	655	28	09	65	101E	14332Z	48386N	50464	7330N	14330N	256E
11	6125N	2005E	10100	700	28	09	65	153E	14392Z	48226N	50328	7323N	14384N	481E
11	6145N	1950E	10100	705	28	09	65	140E	14439Z	48296N	50409	7321N	14433N	420E
11	6205N	1934E	10100	710	28	09	65	142E	14296Z	48597N	50656	7336N	14290N	425E
11	6227N	1921E	10100	715	28	09	65	210E	13994Z	48587N	50562	7356N	13984N	530E
11	6248N	1907E	10100	720	28	09	65	133E	13921Z	48527N	50484	7400N	13916N	375E
11	6310N	1853E	10100	725	28	09	65	148E	13834Z	48657N	50585	7408N	13827N	435E
11	6332N	1839E	10100	730	28	09	65	151E	13646Z	48737N	50611	7421N	13639N	441E
11	6353N	1824E	10100	735	28	09	65	112E	13548Z	48807N	50652	7429N	13545N	283E
11	6411N	1809E	10100	740	28	09	65	56E	13488Z	48897N	50723	7435N	13486N	220E
11	6430N	1753E	10100	745	28	09	65	116E	13431Z	49017N	50824	7441N	13428N	297E
11	6448N	1737E	10100	750	28	09	65	59E	13334Z	49127N	50905	7449N	13332N	230E
11	6506N	1720E	10100	755	28	09	65	36E	13157Z	49318N	51042	7504N	13156N	138E
11	6524N	1704E	10100	800	28	09	65	5W	13076Z	49378N	51080	7510N	13076N	19W
11	6542N	1646E	10100	805	28	09	65	35E	13009Z	49718N	51392	7520N	13009N	131W
11	6557N	1629E	10100	810	28	09	65	1E	12782Z	49828N	51442	7537N	12782N	2E
11	6613N	1611E	10100	815	28	09	65	13E	12682Z	49960N	51553	7546N	12682N	45E
11	6628N	1552E	10100	820	28	09	65	25E	12472Z	50049N	51579	7600N	12471N	83E
11	6643N	1533E	10000	825	28	09	65	27E	12171Z	50078N	51536	7620N	12171N	95E
11	6659N	1515E	9900	830	28	09	65	109E	12151Z	49957N	51414	7620N	12148N	243E
11	6717N	1500E	9900	835	28	09	65	25W	11991Z	50047N	51464	7632N	11990N	87W
11	6735N	1445E	9900	840	28	09	65	29W	11890Z	50077N	51470	7639N	11890N	99W
11	6754N	1430E	9900	845	28	09	65	5W	11991Z	50128N	51542	7633N	11989N	193W
11	6809N	1414E	9900	850	28	09	65	111W	11932Z	50518N	51908	7643N	11929N	245W
11	6827N	1354E	9900	855	28	09	65	65W	11831Z	50578N	51943	7650N	11830N	188W
11	6844N	1334E	9900	900	28	09	65	111W	11392Z	50989N	52246	7724N	11389N	234W
11	6803N	1323E	10000	920	28	09	65	143W	12044Z	50412N	51831	7634N	12038N	360W
11	6744N	1344E	10000	925	28	09	65	109W	12098Z	50005N	51448	7624N	12095N	243W
11	6725N	1405E	10000	930	28	09	65	114W	12080Z	50082N	51518	7626N	12077N	259W
11	6707N	1423E	10000	935	28	09	65	7W	12368Z	50001N	51508	7606N	12368N	27W
11	6650N	1440E	10000	940	28	09	65	32W	12241Z	49893N	51372	7613N	12241N	115W
11	6633N	1457E	10000	945	28	09	65	31E	12377Z	50009N	51518	7606N	12377N	113E
11	6617N	1515E	10000	950	28	09	65	0E	12500Z	50113N	51649	7600N	12500N	1E
11	6601N	1532E	10000	955	28	09	65	0E	12500Z	50113N	51588	7600N	12500N	1E
11	6544N	1549E	10000	1000	28	09	65	19W	12835Z	49811N	51438	7533N	12835N	72W
11	6527N	1606E	10000	1005	28	09	65	22W	13018Z	49795N	51468	7521N	13018N	83W
11	6509N	1621E	10000	1010	28	09	65	49W	13246Z	49493N	51235	7501N	13244N	187W
11	6452N	1637E	10000	1015	28	09	65	3W	13175Z	49313N	51043	7502N	13175N	10W
11	6436N	1653E	10000	1020	28	09	65	12E	13351Z	49261N	51038	7450N	13351N	47E
11	6419N	1708E	10000	1025	28	09	65	27E	13389Z	49107N	50899	7445N	13388N	106E
11	6402N	1723E	10000	1030	28	09	65	30E	13466Z	49019N	50834	7438N	13465N	118E
11	6345N	1738E	10000	1035	28	09	65	45E	13516Z	48875N	50710	7433N	13515N	176E

FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
11	6329N	1752E	10000	1040	28	09	65	42W	135113	48805N	50641	7431N	13512N	163E
11	6310N	1806E	10000	1045	28	09	65	51W	135663	48747N	50599	7427N	13561N	218E
11	6250N	1820E	10000	1050	28	09	65	55W	136060	48728N	50607	7420N	13659N	203E
11	6231N	1841E	10000	1055	28	09	65	11W	136850	48595N	50530	7405N	13847N	286E
11	6212N	1850E	10000	1100	28	09	65			48505N				
11	6155N	1857E	10000	1105	28	09	65	221E	14178	48515N	50544	7343N	14166N	581E
11	6139N	1908E	10000	1110	28	09	65			48645N				
11	6108N	1928E	10000	1120	28	09	65	104E	14403	48184N	50291	7321N	14401N	269E
11	6053N	1938E	10000	1125	28	09	65	145E	14233	48385N	50435	7336N	14226N	434E
11	6037N	1948E	10000	1130	28	09	65	124E	14583	48812N	50944	7322N	14579N	355E
11	6022N	1958E	10000	1135	28	09	65	102E	15154	48305N	50626	7235N	14552N	272E
11	6005N	2008E	10000	1140	28	09	65	147E	15137					473E
11	5948N	2017E	10000	1145	28	09	65	227E	15110	47939N	50264	7230N	15096N	645E
11	5930N	2028E	10000	1150	28	09	65	243E	15339	47834N	50239	7212N	15342N	727E
11	5911N	2035E	10000	1155	28	09	65	300E	15331	47553N	50035	7153N	15339N	813E
11	5934N	1943E	10100	1215	28	09	65	210E	15399	47570N	50000	7204N	15388N	584E
11	5954N	1932E	10100	1220	28	09	65	129E	15299	47808N	50183	7218N	15253N	393E
11	6013N	1920E	10100	1225	28	09	65	132E	15169	48094N	50430	7230N	15164N	421E
11	6033N	1908E	10100	1230	28	09	65	247E	14799	48334N	50549	7259N	14782N	717E
11	6053N	1856E	10100	1235	28	09	65	146E	14519	48158N	50299	7313N	14512N	446E
11	6112N	1843E	10100	1240	28	09	65	109E	14438	48190N	50307	7319N	14435N	290E
11	6131N	1831E	10100	1245	28	09	65	43E	14303	48340N	50412	7331N	14302N	179E
11	6325N	1706E	10100	1315	28	09	65	237E	13700	48691N	50582	7417N	13700N	91E
11	6343N	1650E	10100	1320	28	09	65	0E	13523	48804N	50643	7431N	13523N	1E
11	6402N	1633E	10100	1325	28	09	65	5W	13516	48954N	50786	7434N	13516N	19W
11	6421N	1616E	10100	1330	28	09	65	4W	13436	49062N	50869	7441N	13436N	17W
11	6439N	1558E	10000	1335	28	09	65	34W	13310	49381N	51143	7455N	13309N	132W
11	6458N	1540E	10000	1340	28	09	65	123W	13309	49569N	51273	7511N	13106N	316W
11	6517N	1524E	10000	1345	28	09	65	120W	13089	49751N	51444	7516N	13086N	306W
11	6535N	1508E	10000	1350	28	09	65			49912N				
11	6554N	1452E	10000	1355	28	09	65	118W	12630	49852N	51427	7547N	12626N	286W
11	6613N	1433E	10000	1400	28	09	65	139W	12499	49899N	51440	7556N	12499N	48W
11	6632N	1412E	10000	1405	28	09	65	52W	12234	49883N	51361	7613N	12233N	185W
11	6650N	1352E	10000	1410	28	09	65	100W	12181	49924N	51388	7617N	12179N	212W
11	6707N	1333E	10000	1415	28	09	65	102W	12104	49925N	51371	7622N	12102N	218W
11	6724N	1313E	10000	1420	28	09	65	46W	12119	49848N	51300	7620N	12118N	163W
11	6742N	1253E	10000	1425	28	09	65	142E	12067	50021N	51456	7626N	12062N	359W
11	6759N	1231E	10000	1430	28	09	65	46W	11884	50167N	51555	7640N	11883N	160W
11	6746N	1145E	10000	1450	28	09	65	250W	12071	50043N	51478	7626N	12056N	597W
11	6727N	1209E	10000	1455	28	09	65	238W	12152	49951N	51408	7620N	12139N	558W
11	6708N	1230E	10000	1500	28	09	65	218W	12185	49758N	51228	7614N	12175N	488W
11	6649N	1250E	10000	1505	28	09	65	128W	12241	49790N	51272	7611N	12237N	314W
11	6629N	1310E	10000	1510	28	09	65	110W	12578	49774N	51338	7549N	12575N	255W
11	6610N	1331E	10000	1515	28	09	65	49W	12661	49628N	51218	7541N	12659N	181W
11	6550N	1352E	10000	1520	28	09	65	5W	12801	49577N	51203	7531N	12801N	19W
11	6532N	1411E	10000	1525	28	09	65	37E	12854	49599N	51238	7528N	12853N	139E
11	6514N	1429E	10000	1530	28	09	65	49E	13364	49726N	51439	7510N	13163N	186E
11	6455N	1447E	10000	1535	28	09	65	24W	13295	49411N	51168	7456N	13294N	92W
11	6437N	1505E	10000	1540	28	09	65	36W	13288	49226N	50788	7454N	13287N	139W
11	6418N	1522E	10000	1545	28	09	65	107W	13426	49064N	50867	7442N	13423N	260W
11	6400N	1533E	10000	1550	28	09	65	102W	13415	48860N	50677	7439N	13413N	242W
11	6343N	1554E	10000	1555	28	09	65	58W	13500	48825N	50657	7433N	13498N	229W
11	6327N	1609E	10000	1600	28	09	65	113W	13530	48790N	50631	7430N	13527N	289W
11	6310N	1624E	10000	1605	28	09	65	233W	13646	48670N	50547	7420N	13646N	92W
11	6253N	1638E	10000	1610	28	09	65	232W	13696	48607N	50527	7409N	13696N	88W
11	6236N	1659E	10000	1615	28	09	65	232E	13957	48613N	50577	7359N	13957N	1E
11	6219N	1711E	10000	1620	28	09	65				50537			
11	6159N	1728E	10000	1625	28	09	65	27E	14237	48323N	50376	7335N	14236N	111E
11	6139N	1745E	10000	1630	28	09	65	32E	14408	48340N	50441	7324N	14408N	133E
11	6121N	1757E	10000	1635	28	09	65	2E	14429	48281N	50392	7322N	14429N	9E
11	6104N	1807E	10000	1640	28	09	65	48E	14542	48148N	50297	7312N	14541N	204E
11	6046N	1818E	10000	1645	28	09	65	122E	14723	48051N	50256	7258N	14718N	352E
11	6028N	1828E	10000	1650	28	09	65	109E	14823	48085N	50318	7252N	14820N	296E
11	6010N	1840E	10000	1655	28	09	65	108E	15026	48005N	50302	7237N	15023N	296E
11	5951N	1852E	10000	1700	28	09	65	107E	15373	47809N	50220	7210N	15371N	298E
11	5933N	1903E	10000	1705	28	09	65	104E	15333	47555N	49973	7206N	15349N	376E
12	5850N	1931E	14800	1035	30	09	65	126E	15303	47358N	49769	7206N	15329N	384E
12	5831N	1944E	14800	1040	30	09	65	114E	15366	47262N	49789	7140N	15366N	338E
12	5813N	1956E	14700	1045	30	09	65	133E	15391	47326N	49828	7146N	15385N	423E
12	5833N	1904E	14700	1105	30	09	65	137E	15390	47216N	49714	7143N	15384N	441E
12	5850N	1852E	14700	1110	30	09	65	50E	15348	47268N	49697	7201N	15346N	223E
12	5907N	1841E	14600	1115	30	09	65	9E	15362	47267N	49701	7200N	15362N	40E
12	5924N	1829E	14600	1120	30	09	65	45E	15379	47468N	49897	7203N	15378N	200E
12	5942N	1816E	14600	1125	30	09	65	55E	15309	47598N	50000	7210N	15307N	247E
12	6000N	1802E	14600	1130	30	09	65	105E	15082	47819N	50171	7223N	15079N	289E
12	6017N	1749E	14600	1135	30	09	65	40E	15042	47919N	50224	7234N	15041N	173E
12	6034N	1737E	14600	1140	30	09	65	115E	14681	47939N	50136	7258N	14677N	319E
12	6051N	1725E	14600	1145	30	09	65	20E	14501	47919N	50065	7310N	14500N	86E
12	6107N	1713E	14600	1150	30	09	65	39E	14731	47969N	50180	7256N	14730N	167E

FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
12	6124N	1700E	14600	1155	30	09	65	2E	14501	48179N	50314	7315N	14501N	6E
12	6141N	1647E	14600	1200	30	09	65	18E	14263	48379N	50437	7334N	14263N	73E
12	6157N	1633E	14600	1205	30	09	65	4E	14176	48226N	50267	7337N	14176N	15E
12	6214N	1619E	14600	1210	30	09	65	10W	14141	48404N	50427	7343N	14141N	42W
12	6231N	1604E	14600	1215	30	09	65	14W	14061	48542N	50537	7351N	14061N	55W
12	6248N	1548E	14500	1220	30	09	65	36W	13798	48616N	50537	7409N	13797N	145W
12	6306N	1531E	14500	1225	30	09	65	30W	13745	48543N	50452	7411N	13744N	122W
12	6323N	1515E	14500	1230	30	09	65	129W	13656	48709N	50587	7420N	13651N	352W
12	6340N	1501E	14500	1235	30	09	65	125W	13429	48839N	50652	7438N	13425N	333W
12	6357N	1447E	14500	1240	30	09	65	128W	13352	48897N	50687	7444N	13348N	341W
12	6414N	1436E	14500	1245	30	09	65	150W	13244	48972N	50731	7452N	13237N	425W
12	6431N	1420E	14500	1250	30	09	65	137W	13199	49093N	50837	7457N	13194N	371W
12	6448N	1403E	14500	1255	30	09	65	41W	13064	49150N	50856	7507N	13064N	156W
12	6505N	1348E	14500	1300	30	09	65	15W	12999	49116N	50807	7511N	12999N	55W
12	6522N	1333E	14500	1305	30	09	65	24W	12894	49164N	50826	7518N	12894N	90W
12	6539N	1317E	14500	1310	30	09	65	40W	12772	49237N	50866	7527N	12771N	147W
12	6554N	1259E	14500	1315	30	09	65	102W	12787	49388N	51017	7529N	12785N	232W
12	6609N	1242E	14500	1320	30	09	65	120W	12605	49512N	51092	7543N	12601N	295W
12	6624N	1224E	14500	1325	30	09	65	209W	12495	49711N	51257	7553N	12487N	468W
12	6641N	1204E	14500	1330	30	09	65	135W	12273	49715N	51207	7608N	12268N	338W
12	6609N	1150E	14700	1350	30	09	65	242W	12686	49533N	51131	7538N	12672N	598W
12	6550N	1213E	14800	1355	30	09	65	237W	12781	49350N	50978	7529N	12768N	585W
12	6530N	1236E	15000	1400	30	09	65	232W	12848	49121N	50773	7521N	12835N	568W
12	6509N	1258E	15000	1405	30	09	65	216W	12911	49056N	50726	7515N	12901N	512W
12	6449N	1319E	15000	1410	30	09	65	132W	12945	49115N	50792	7514N	12941N	345W
12	6430N	1337E	15000	1415	30	09	65	208W	13099	49188N	50902	7505N	13090N	486W
12	6411N	1356E	15000	1420	30	09	65	238W	13293	49074N	50842	7451N	13279N	610W
12	6351N	1413E	15000	1425	30	09	65	238W	13323	48962N	50742	7447N	13309N	612W
12	6332N	1431E	15000	1430	30	09	65	315W	13355	48954N	50743	7444N	13334N	755W
12	6312N	1448E	15000	1435	30	09	65	305W	13760	48757N	50662	7414N	13740N	739W
12	6252N	1504E	15000	1440	30	09	65	206W	13750	48490N	50401	7410N	13741N	505W
12	6232N	1521E	15000	1445	30	09	65	120W	13932	48464N	50426	7358N	13928N	326W
12	6213N	1536E	15000	1450	30	09	65	113W	14222	48327N	50376	7336N	14219N	303W
12	6154N	1551E	15000	1455	30	09	65	58W	14209	48128N	50181	7333N	14207N	241W
12	6136N	1606E	15000	1500	30	09	65	38W	14299	48216N	50292	7329N	14298N	157W
12	6117N	1620E	15000	1505	30	09	65	48W	14510	48159N	50297	7314N	14509N	201W
12	6057N	1636E	15000	1510	30	09	65	51W	14589	47989N	50157	7305N	14587N	217W
12	6037N	1654E	15000	1515	30	09	65	20E	14626	47878N	50062	7301N	14625N	87E
12	6017N	1711E	15000	1520	30	09	65	25E	14806	48119N	50345	7254N	14806N	108E
12	5958N	1726E	15000	1525	30	09	65	33E	15207	47748N	50111	7220N	15206N	146E
12	5939N	1740E	15000	1530	30	09	65	24E	15179	47538N	49902	7218N	15178N	107E
12	5920N	1754E	15000	1535	30	09	65	28W	15226	47568N	49945	7215N	15225N	122W
12	5900N	1808E	15000	1540	30	09	65	32E	15432	47287N	49742	7156N	15431N	175E
12	5840N	1821E	15000	1545	30	09	65	40E	15457	47242N	49707	7153N	15456N	179E
12	5820N	1834E	15000	1550	30	09	65	28E	15730	47177N	49730	7134N	15729N	130E
12	5758N	1849E	15000	1555	30	09	65	50E	15817	47095N	49680	7126N	15815N	229E
12	5737N	1902E	15000	1600	30	09	65	133E	16045	47029N	49690	7110N	16039N	432E
12	5717N	1914E	15000	1605	30	09	65	132E	16157	46990N	49691	7102N	16151N	434E
12	5723N	1829E	15000	1625	30	09	65	43E	16259	46803N	49547	7051N	16258N	201E
12	5741N	1818E	15000	1630	30	09	65	29W	16013	46930N	49587	7110N	16012N	136W
12	5759N	1806E	15000	1635	30	09	65	29W	15790	47102N	49678	7128N	15790N	0W
12	5816N	1754E	15000	1640	30	09	65	11E	15749	47179N	49738	7132N	15749N	50E
12	5834N	1742E	15000	1645	30	09	65	16E	15533	47388N	49869	7151N	15532N	72E
12	5851N	1729E	15000	1650	30	09	65		15345	47196N	49628	7159N		
14	6146N	2824E	9900	540	2	10	65	630E	14264	49042N	51074	7347N	14172N	1614E
14	6202N	2817E	9900	545	2	10	65	605E	14282	49225N	51255	7349N	14201N	1514E
14	6218N	2812E	9900	550	2	10	65	616E	14055	49311N	51275	7405N	13971N	1536E
14	6234N	2806E	9900	555	2	10	65	604E	14000	49483N	51426	7412N	13922N	1481E
14	6250N	2800E	9900	600	2	10	65	558E	13803	49539N	51426	7426N	13728N	1436E
14	6305N	2754E	9900	605	2	10	65	546E	13771	49517N	51396	7427N	13701N	1384E
14	6321N	2747E	9900	610	2	10	65	604E	13739	49692N	51556	7433N	13662N	1451E
14	6336N	2741E	9900	615	2	10	65	540E	13529	49687N	51496	7446N	13463N	1334E
14	6350N	2735E	9900	620	2	10	65	545E	13472	49723N	51515	7450N	13404N	1352E
14	6404N	2729E	9900	625	2	10	65	557E	13448	49896N	51676	7455N	13375N	1393E
14	6419N	2724E	9800	630	2	10	65	610E	13411	50081N	51845	7500N	13334N	1439E
14	6434N	2718E	9700	635	2	10	65	652E	13272	50169N	51895	7511N	13177N	1586E
14	6449N	2712E	9700	640	2	10	65	645E	12913	50066N	51704	7532N	12823N	1520E
14	6505N	2705E	9700	645	2	10	65	627E	12998	49998N	51660	7526N	12915N	1460E
14	6520N	2658E	9700	650	2	10	65	626E	12931	50113N	51754	7532N	12849N	1447E
14	6536N	2651E	9700	655	2	10	65	624E	12826	50202N	51815	7540N	12746N	1430E
14	6551N	2644E	9700	700	2	10	65	611E	12770	50175N	51775	7543N	12696N	1375E
14	6607N	2636E	9700	705	2	10	65	551E	12816	50297N	51904	7542N	12749N	1308E
14	6622N	2629E	9800	710	2	10	65	544E	12758	50588N	52172	7551N	12695N	1273E
14	6638N	2621E	9900	715	2	10	65	534E	12350	50993N	52467	7623N	12292N	1200E
14	6653N	2613E	9900	720	2	10	65	514E	11978	50855N	52247	7645N	11928N	1091E
14	6710N	2605E	9900	725	2	10	65	506E	11889	50663N	52040	7648N	11843N	1056E
14	6726N	2556E	9900	730	2	10	65	528E	11997	50692N	52092	7641N	11942N	1143E
14	6659N	2702E	9900	750	2	10	65			50822N				
14	6636N	2713E	9900	755	2	10	65	605E	12424	50862N	52358	7616N	12354N	1316E

FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
14	66 14N	272 44E	9900	800	2	10	65	64 44E	12 709	506 38N	52208	7555N	12621N	1492E
14	65 53N	273 33E	9900	805	2	10	65	65 33E	12 784	504 12N	52007	7546N	12691N	1533E
14	65 32N	274 11E	9900	810	2	10	65	64 99E	12 792	502 87N	51888	7544N	12701N	1519E
14	65 11N	275 00E	9900	815	2	10	65	61 77E	12 874	502 03N	51828	7537N	12797N	1407E
14	64 49N	280 00E	9900	820	2	10	65	54 99E	13 042	500 77N	51748	7524N	12975N	1323E
14	64 27N	280 09E	9900	825	2	10	65	62 33E	13 219	499 17N	51638	7510N	13137N	1469E
14	64 06N	281 18E	9900	830	2	10	65	63 19E	13 353	498 71N	51628	7501N	13267N	1517E
14	63 44N	282 22E	9900	835	2	10	65	64 00E	13 501	498 1CN	51607	7450N	13409N	1568E
14	63 23N	283 33E	9900	840	2	10	65	63 69E	13 648	497 29N	51568	7439N	13557N	1570E
14	63 04N	284 47E	9900	845	2	10	65	64 99E	13 785	496 03N	51483	7428N	13688N	1637E
14	62 45N	285 55E	9900	850	2	10	65	65 69E	14 004	494 21N	51367	7411N	13800N	1690E
14	62 24N	287 00E	9900	855	2	10	65	69 99E	14 110	493 49N	51327	7403N	14000N	1757E
14	62 03N	288 00E	9900	860	2	10	65	74 00E	13 922	495 26N	51445	7418N	13798N	1857E
14	61 52N	289 33E	9900	865	2	10	65	70 44E	13 776	495 78N	51456	7428N	13672N	1694E
14	61 30N	290 48E	9900	870	2	10	65	72 22E	13 723	496 13N	51476	7432N	13610N	1760E
14	61 08N	291 58E	9900	875	2	10	65	72 22E	13 595	496 60N	51506	7442N	13483N	1743E
14	60 55N	293 11E	9900	880	2	10	65	71 77E	13 468	497 24N	51515	7451N	13359N	1707E
14	60 35N	294 18E	9900	885	2	10	65	71 22E	13 370	497 97N	51586	7452N	13364N	1687E
14	60 14N	295 22E	9900	890	2	10	65	70 77E	13 301	498 98N	51641	7504N	13199N	1648E
14	60 00N	296 22E	9900	895	2	10	65	73 88E	13 280	500 03N	51737	7508N	13163N	1764E
14	60 00N	297 22E	9900	900	2	10	65	73 88E	13 097	500 03CN	51716	7520N	12996N	1628E
14	60 00N	298 22E	9900	905	2	10	65	73 88E	13 073	501 60N	51836	7524N	12971N	1627E
14	60 00N	299 22E	9900	910	2	10	65	73 88E	12 917	502 22N	51856	7535N	12811N	1652E
14	60 00N	300 22E	9900	915	2	10	65	73 88E	12 859	503 71N	51986	7541N	12750N	1668E
14	60 00N	301 22E	9900	920	2	10	65	73 88E	12 720	504 37N	52016	7551N	12621N	1584E
14	60 00N	302 22E	9900	925	2	10	65	65 11E	12 595	503 46N	51921	7551N	12604N	1513E
14	60 00N	303 22E	9900	930	2	10	65	62 66E	12 449	507 33N	52286	7600N	12569N	1419E
14	60 00N	304 22E	9900	935	2	10	65	54 33E	12 356	509 71N	52447	7622N	12295N	1231E
14	60 00N	305 22E	9900	940	2	10	65	61 22E	12 254	509 19N	52327	7641N	11983N	1301E
14	60 00N	306 22E	9900	945	2	10	65	65 33E	11 924	507 32N	52115	7646N	11838N	1428E
14	60 00N	307 22E	9900	950	2	10	65	64 66E	11 819	506 65N	52057	7639N	11935N	1416E
14	60 00N	308 22E	9900	955	2	10	65	61 44E	12 034	508 0CN	52206	7640N	11962N	1308E
14	60 00N	309 22E	9900	960	2	10	65	62 33E	11 835	509 97N	52352	7656N	11762N	1317E
14	60 00N	310 22E	9900	965	2	10	65	62 11E	11 700	510 63N	52386	7706N	11628N	1294E
14	60 00N	311 22E	9900	970	2	10	65	65 33E	11 585	510 18N	52316	7712N	11496N	1434E
14	60 00N	312 22E	9900	975	2	10	65	65 33E	11 556	510 30N	52322	7714N	11473N	1384E
14	60 00N	313 22E	9900	980	2	10	65	63 99E	11 466	511 11N	52381	7721N	11380N	1327E
14	60 00N	314 22E	9900	985	2	10	65	63 66E	11 388	512 06N	52457	7728N	11312N	1309E
14	60 00N	315 22E	9900	990	2	10	65	64 33E	11 302	513 27N	52557	7735N	11224N	1323E
14	60 00N	316 22E	9900	995	2	10	65	63 88E	11 182	514 24N	52626	7744N	11108N	1291E
14	60 00N	317 22E	9900	1000	2	10	65	63 77E	11 020	514 80N	52647	7755N	10947N	1270E
14	60 00N	318 22E	9900	1005	2	10	65	61 99E	10 936	515 28N	52676	7801N	10870N	1205E
14	60 00N	319 22E	9900	1010	2	10	65	60 99E	10 802	516 77N	52756	7804N	10839N	1168E
14	60 00N	320 22E	9900	1015	2	10	65	61 66E	10 693	518 05N	52897	7820N	10829N	1168E
14	60 00N	321 22E	9800	1200	2	10	65	54 11E	10 644	517 12N	52796	7822N	10591N	1054E
14	60 00N	322 22E	9800	1205	2	10	65	51 22E	10 556	518 12N	52876	7829N	10513N	958E
14	60 00N	323 22E	10000	1210	2	10	65	43 33E	10 429	517 79N	52859	7824N	10595N	845E
14	60 00N	324 22E	10100	1215	2	10	65	40 99E	10 301	516 48N	52745	7818N	10673N	774E
14	60 00N	325 22E	10100	1220	2	10	65	35 11E	10 179	515 42N	52645	7815N	10695N	718E
14	60 00N	326 22E	10100	1225	2	10	65	33 33E	10 101	514 59N	52560	7815N	10681N	663E
14	60 00N	327 22E	10100	1230	2	10	65	31 44E	10 005	511 44N	52315	7751N	10996N	429E
14	60 00N	328 22E	10100	1235	2	10	65	20 55E	11 050	511 39N	52319	7748N	11022N	786E
14	60 00N	329 22E	10100	1300	2	10	65	33 44E	11 317	511 11N	52349	7731N	11295N	704E
14	60 00N	330 22E	10100	1305	2	10	65	34 44E	11 409	509 68N	52229	7723N	11385N	743E
14	60 00N	331 22E	10100	1310	2	10	65	41 11E	11 557	508 63N	52159	7712N	11526N	844E
14	60 00N	332 22E	10100	1315	2	10	65	43 88E	11 663	507 24N	52047	7703N	11633N	841E
14	60 00N	333 22E	10100	1320	2	10	65	43 55E	11 661	507 99N	52120	7704N	11624N	932E
14	60 00N	334 22E	10100	1325	2	10	65	40 00E	11 776	509 87N	52329	7700N	11747N	822E
14	60 00N	335 22E	10100	1330	2	10	65	35 55E	11 938	508 16N	52199	7647N	11910N	814E
14	60 00N	336 22E	10100	1335	2	10	65	32 44E	12 095	507 12N	52134	7635N	12074N	718E
14	60 00N	337 22E	10100	1340	2	10	65	34 88E	12 343	505 18N	52004	7616N	12316N	819E
14	60 00N	338 22E	10100	1345	2	10	65	33 00E	12 614	503 43N	51899	7556N	12590N	770E
14	60 00N	339 22E	10000	1350	2	10	65	35 33E	12 668	501 32N	51708	7549N	12639N	858E
14	60 00N	340 22E	10000	1355	2	10	65	42 33E	12 802	501 40N	51749	7541N	12764N	978E
14	60 00N	341 22E	10000	1400	2	10	65	42 44E	12 939	499 80N	51628	7529N	12901N	992E
14	60 00N	342 22E	10000	1405	2	10	65	43 00E	12 968	499 32N	51588	7526N	12928N	1019E
14	60 00N	343 22E	10000	1410	2	10	65	42 99E	13 037	498 46N	51548	7514N	13097N	1028E
14	60 00N	344 22E	10000	1415	2	10	65	44 66E	13 172	499 14N	51648	7507N	13226N	1103E
14	60 00N	345 22E	10000	1420	2	10	65	52 00E	13 307	495 95N	51418	7442N	13509N	1262E
14	60 00N	346 22E	10000	1425	2	10	65	52 55E	13 396	495 87N	51417	7440N	13535N	1282E
14	60 00N	347 22E	10000	1430	2	10	65	52 99E	13 480	494 01N	51298	7422N	13757N	1322E
14	60 00N	348 22E	10000	1435	2	10	65	51 00E	13 580	493 43N	51258	7417N	13824N	1249E
14	60 00N	349 22E	10000	1440	2	10	65	45 77E	13 692	493 52N	51297	7410N	13940N	1206E
14	60 00N	350 22E	10000	1445	2	10	65	50 66E	14 128	491 26N	51117	7357N	14072N	1257E
14	60 00N	351 22E	10000	1450	2	10	65	50 44E	14 281	490 88N	51075	7346N	14225N	1259E
14	60 00N	352 22E	10000	1455	2	10	65	50 44E	14 430	489 65N	51047	7335N	14371N	1310E
14	60 00N	353 22E	10000	1500	2	10	65	50 44E	14 585	488 20N	50947	7323N	14509N	1285E
14	60 00N	354 22E	10000	1505	2	10	65	42 22E	14 789	486 71N	50867	7306N	14742N	1127E
15	58 10N	180 00E	10000	930	3	10	65	29 59E	15 615	470 72N	49594	7139N	15614N	131N

FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
15	5755N	1811E	10000	935	3	10	65	54W	15763	47002N	49575	7128N	15761N	249W
15	5709N	1808E	10000	950	3	10	65	40W	16164	46789N	49503	7057N	16162N	189W
15	5653N	1800E	10000	955	3	10	65	35W	16682	46738N	49533	7040N	16401N	165W
15	5805N	1760E	10000	1035	3	10	65	35W	16682	47072N	49671	7123N	15857N	159E
15	5822N	1663E	10000	1040	3	10	65	35W	16682	47067N	49603	7136N	15657N	72E
15	5843N	1663E	10000	1040	3	10	65	27W	15948	47187N	49663	7150N	15484N	121W
15	5902N	1660E	10000	1055	3	10	65	40W	15942	47163N	49623	7153N	15431N	179W
15	5918N	1594E	10000	1055	3	10	65	41W	15940	47402N	49843	7200N	15405N	185W
15	5934N	1535E	10000	1100	3	10	65	13W	15239	47615N	49994	7215N	15239N	59W
15	5953N	1521E	10000	1105	3	10	65	22W	15097	47655N	49989	7225N	15097N	97W
15	6011N	1506E	10000	1110	3	10	65	113W	15069	47638N	49964	7227N	15066N	319W
15	6030N	1451E	10000	1115	3	10	65	204W	14909	47981N	50244	7244N	14899N	537W
15	6049N	1436E	10000	1120	3	10	65	150W	14685	48217N	50404	7304N	14677N	468W
15	6108N	1430E	10000	1125	3	10	65	143W	14525	48329N	50464	7316N	14519N	434W
15	6128N	1430E	10000	1130	3	10	65	200W	14443	48510N	50614	7325N	14434N	504W
15	6148N	1344E	10000	1135	3	10	65	136W	14332	48637N	50705	7335N	14326N	400W
15	6208N	1327E	10000	1140	3	10	65	148W	14102	48746N	50745	7352N	14095N	441W
15	6227N	1311E	10000	1145	3	10	65	122W	13920	48772N	50720	7404N	13917N	331W
15	6246N	1254E	10000	1150	3	10	65	127W	13799	48775N	50690	7412N	13795N	347W
15	6304N	1237E	10000	1155	3	10	65	114W	13755	48938N	50835	7418N	13752N	297W
15	6322N	1218E	10000	1200	3	10	65	127W	13482	49188N	50925	7439N	13478N	341W
15	6340N	1159E	10000	1205	3	10	65	122W	13320	48872N	50855	7445N	13316N	318W
15	6358N	1140E	10000	1210	3	10	65	250W	13338	48742N	50834	7442N	13330N	464W
15	6416N	1120E	10000	1215	3	10	65	250W	13327	48928N	50685	7452N	13211N	653W
15	6434N	1100E	10000	1220	3	10	65	341W	13303	49023N	50725	7507N	13003N	836W
15	6451N	1039E	10000	1225	3	10	65	355W	13006	49071N	50765	7509N	12976N	888W
15	6442N	954E	9900	1245	3	10	65	415W	13215	49007N	50757	7455N	13179N	977W
15	6426N	1014E	9900	1250	3	10	65	317W	13123	49010N	50736	7501N	13102N	752W
15	6409N	1033E	9900	1255	3	10	65	405W	13360	48936N	50727	7444N	13327N	950W
15	6353N	1051E	9900	1300	3	10	65	235W	13497	48586N	50426	7429N	13483N	608W
15	6336N	1109E	9900	1305	3	10	65	211W	13546	48484N	50341	7423N	13536N	517W
15	6320N	1127E	9900	1310	3	10	65	142W	13596	48434N	50306	7419N	13590N	401W
15	6304N	1144E	9900	1315	3	10	65	101W	13641	48577N	50456	7419N	13639N	241W
15	6247N	1201E	9900	1320	3	10	65	132W	13716	48753N	50646	7417N	13711N	367W
15	6231N	1297E	10000	1325	3	10	65	158W	13923	48612N	50567	7401N	13915N	478W
15	6215N	1233E	10200	1330	3	10	65	142W	13996	48613N	50588	7356N	13990N	417W
15	6159N	1248E	10200	1335	3	10	65	116W	14349	48583N	50658	7333N	14346N	316W
15	6142N	1304E	10200	1340	3	10	65	112W	14379	48413N	50503	7328N	14375N	302W
15	6126N	1320E	10200	1345	3	10	65	108W	14452	48491N	50599	7324N	14449N	288W
15	6108N	1336E	10200	1350	3	10	65	140W	14627	48532N	50688	7314N	14621N	426W
15	6051N	1352E	10200	1355	3	10	65	149W	14887	48265N	50509	7251N	14880N	472W
15	6034N	1407E	10200	1400	3	10	65	45W	15019	48140N	50428	7240N	15018N	198W
15	6018N	1420E	10200	1405	3	10	65	138W	15191	47945N	50294	7225N	15184N	435W
15	6002N	1433E	10000	1410	3	10	65	143W	15135	47649N	49695	7223N	15128N	455W
15	5945N	1446E	9800	1415	3	10	65	43W	15214	47371N	49754	7212N	15213N	190W
15	5929N	1459E	9800	1420	3	10	65	30W	15329	47439N	49854	7206N	15328N	135W
15	5912N	1512E	9800	1425	3	10	65	35W	15367	47269N	49704	7159N	15366N	157W
15	5856N	1525E	9800	1430	3	10	65	40W	15370	47321N	49754	7200N	15369N	180W
15	5839N	1538E	9800	1435	3	10	65	45W	15553	47350N	49839	7149N	15552N	204W
15	5821N	1552E	9800	1440	3	10	65	32W	15725	46936N	49500	7129N	15724N	147W
15	5804N	1609E	9800	1445	3	10	65	37W	15654	46752N	49303	7125N	15654N	169W
15	5747N	1617E	9800	1450	3	10	65	48W	15684	46946N	49497	7132N	15683N	219W
15	5730N	1629E	9800	1455	3	10	65	49W	15998	47186N	49824	7116N	15996N	226W
15	5713N	1641E	10000	1500	3	10	65	49W	16335	47029N	49785	7051N	16333N	235W
15	5656N	1653E	10000	1505	3	10	65	10E	16519	46784N	49615	7033N	16519N	48E
15	5639N	1704E	10000	1510	3	10	65	9E	16844	46314N	49282	7001N	16843N	42E
15	5622N	1715E	10000	1515	3	10	65	2E	16695	46077N	49009	7005N	16695N	10E
15	5555N	1650E	10000	1530	3	10	65	12W	16836	46144N	49119	6957N	16835N	60W
15	5555N	1618E	9000	1535	3	10	65	5W	16663	46252N	49162	7011N	16663N	122W
15	5554N	1543E	7500	1540	3	10	65	18W	16474	46500N	49332	7029N	16474N	87W
16	5532N	1443E	10000	930	4	10	65	150W	17022	45781N	48843	6936N	17013N	545W
16	5535N	1518E	10000	935	4	10	65	48W	17167	45885N	48991	6929N	17165N	239W
16	5538N	1593E	10000	940	4	10	65	47W	17100	46303N	49359	6944N	17098N	232W
16	5542N	1625E	10000	945	4	10	65	51W	16854	46164N	49144	6957N	16852N	248W
16	5602N	1646E	10000	955	4	10	65	11W	16767	46173N	49123	7002N	16764N	344W
16	5620N	1635E	10000	1000	4	10	65	20W	16601	46349N	49232	7018N	16601N	97W
16	5637N	1625E	10000	1005	4	10	65	12W	16611	46452N	49333	7019N	16611N	57W
16	5654N	1612E	10000	1010	4	10	65	12W	16506	46680N	49513	7032N	16506N	59W
16	5712N	1600E	10000	1015	4	10	65	26W	16490	46857N	49673	7037N	16490N	124W
16	5729N	1547E	10000	1020	4	10	65	45E	16275	47236N	49961	7059N	16273N	212E
16	5755N	1528E	10000	1025	4	10	65	42W	15820	47466N	50033	7134N	15819N	192W
16	5822N	1508E	10000	1030	4	10	65	138W	15645	47240N	49763	7141N	15639N	444W
16	5833N	1500E	10000	1035	4	10	65	34W	15337	47120N	49553	7158N	15337N	150W
16	5843N	1451E	10000	1040	4	10	65	55W	15561	46920N	49433	7139N	15559N	248W
16	5854N	1443E	10000	1045	4	10	65	133W	15542	47184N	49678	7146N	15539N	283W
16	5911N	1431E	10000	1050	4	10	65	40W	15356	47240N	49673	7200N	15355N	178W
16	5927N	1418E	10000	1055	4	10	65	53W	15236	47169N	49569	7206N	15234N	235W
16	5944N	1405E	10000	1100	4	10	65	11W	15251	47366N	49704	7208N	15247N	466W
16	6000N	1351E	10000	1105	4	10	65	108W	15228	47528N	49908	7214N	15225N	300W

FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
16	60 15N	133 7E	10000	1110	4	10	65	105W	15046	47582N	49904	7227N	15043N	284W
16	60 30N	133 22E	10000	1115	4	10	65	102W	14980	47767N	50061	7235N	14977N	271W
16	60 47N	133 02E	10000	1120	4	10	65	36W	14968	47963N	50244	7240N	14967N	155W
16	61 04N	132 52E	10000	1125	4	10	65	51W	14696	48078N	50274	7300N	14694N	219W
16	61 21N	123 6E	10000	1130	4	10	65	112W	14538	48188N	50334	7313N	14535N	305W
16	61 38N	122 0E	10000	1135	4	10	65	111W	14423	48223N	50334	7321N	14420N	297W
16	61 56N	120 2E	10000	1140	4	10	65	52W	14430	48430N	50534	7324N	14429N	217W
16	62 13N	114 5E	10000	1145	4	10	65	211W	13964	48567N	50534	7358N	13953N	532W
16	62 31N	112 6E	10000	1150	4	10	65	105W	13892	48546N	50495	7402N	13890N	264W
16	62 48N	110 9E	10000	1155	4	10	65	142W	13728	48364N	50274	7409N	13722N	406W
16	63 05N	105 1E	10000	1200	4	10	65	235W	13647	48388N	50179	7413N	13633N	616W
16	63 22N	103 4E	10000	1205	4	10	65	311W	13642	48388N	50274	7415N	13621N	758W
16	63 39N	101 6E	10000	1210	4	10	65	348W	13564	48524N	50384	7423N	13534N	898W
16	63 56N	95 7E	10000	1215	4	10	65	354W	13503	48884N	50715	7434N	13471N	920W
16	64 14N	93 6E	10000	1220	4	10	65	358W	13217	48811N	50569	7451N	13186N	915W
16	64 03N	85 6E	10000	1240	4	10	65	501W	13395	48688N	50497	7437N	13344N	1169W
16	63 47N	91 4E	10000	1245	4	10	65	344W	13519	48628N	50472	7428N	13490N	880W
16	63 31N	93 3E	10000	1250	4	10	65	401W	13616	48492N	50367	7419N	13583N	955W
16	63 13N	95 2E	10000	1255	4	10	65	400W	13707	48331N	50237	7410N	13674N	955W
16	62 56N	101 0E	10000	1300	4	10	65	335W	13816	48200N	50141	7400N	13789N	864W
16	62 38N	102 9E	10000	1305	4	10	65	235W	13929	48074N	50052	7350N	13915N	629W
16	62 21N	104 7E	10000	1310	4	10	65	237W	13981	48144N	50133	7348N	13975N	395W
16	62 04N	110 5E	10000	1315	4	10	65	107W	14307	48281N	50357	7330N	14304N	279W
16	61 46N	112 4E	10000	1320	4	10	65	143W	14410	47954N	50072	7316N	14404N	430W
16	61 29N	114 1E	10000	1325	4	10	65	125W	14535	47795N	49956	7305N	14531N	360W
16	61 11N	120 0E	10000	1330	4	10	65	125W	14624	47944N	50125	7302N	14620N	362W
16	60 54N	121 8E	10000	1335	4	10	65	131W	14770	4765CN	49886	7247N	14764N	393W
16	60 37N	123 6E	9900	1340	4	10	65	138W	14875	47548N	49820	7238N	14869N	424W
16	60 18N	125 3E	9900	1345	4	10	65	132W	14962	47484N	49785	7231N	14956N	402W
16	59 59N	131 1E	9900	1350	4	10	65	150W	15052	47471N	49800	7224N	15044N	483W
16	59 39N	132 8E	9900	1355	4	10	65	139W	15132	47314N	49675	7216N	15126N	437W
16	59 21N	134 4E	9900	1400	4	10	65	147W	15256	47216N	49620	7206N	15249N	476W
16	59 04N	135 7E	9900	1405	4	10	65	146W	15468	47152N	49625	7150N	15461N	477W
16	58 44N	141 2E	9900	1410	4	10	65	119W	15615	46893N	49424	7135N	15611N	358W
16	58 25N	142 7E	9900	1415	4	10	65	34W	15524	46817N	49324	7139N	15524N	152W
16	58 05N	144 2E	9900	1420	4	10	65	28E	15705	47285N	49825	7138N	15704N	130E
16	57 45N	145 6E	9900	1425	4	10	65	36E	16243	47102N	49824	7058N	16243N	168E
16	57 26N	151 0E	9900	1430	4	10	65	31E	16368	46668N	49455	7040N	16367N	148E
16	57 08N	152 4E	9900	1435	4	10	65	16E	16323	46821N	49584	7047N	16322N	74E
16	56 49N	153 7E	9900	1440	4	10	65	20W	16537	46490N	49344	7025N	16537N	94W
16	56 29N	155 1E	9900	1445	4	10	65	18W	16561	46365N	49234	7021N	16561N	87W
16	56 10N	160 3E	9900	1450	4	10	65	17W	16718	46372N	49294	7010N	16718N	85W
16	55 51N	162 8E	9900	1455	4	10	65	35W	16777	46255N	49204	7004N	16776N	169W
17	55 39N	162 8E	9900	1455	5	10	65	17W	16742	46298N	49232	7007N	16742N	81W
17	55 16N	151 6E	9900	1100	5	10	65	105W	16675	46430N	49342	7015N	16672N	314W
17	55 32N	150 5E	9900	1105	5	10	65	11W	16467	46280N	49122	7025N	16467N	51W
17	55 49N	145 3E	9800	1110	5	10	65	16W	16520	46452N	49302	7025N	16519N	78W
17	55 704N	144 2E	9700	1115	5	10	65	2E	16301	46517N	49291	7041N	16301N	9E
17	57 20N	143 1E	9700	1120	5	10	65	8W	16282	46471N	49241	7041N	16282N	40W
17	57 35N	142 0E	9700	1125	5	10	65	5E	16275	46600N	49360	7045N	16275N	21E
17	57 51N	140 8E	9700	1130	5	10	65	32W	15976	46735N	49390	7108N	15975N	147W
17	58 10N	135 5E	9700	1135	5	10	65	121W	15831	46828N	49431	7119N	15827N	373W
17	58 28N	134 2E	9700	1140	5	10	65	134W	15712	46963N	49521	7130N	15706N	431W
17	58 47N	132 9E	9700	1145	5	10	65	200W	15633	47126N	49651	7139N	15624N	544W
17	59 04N	131 5E	9700	1150	5	10	65	148W	15548	47333N	49821	7149N	15540N	490W
17	59 20N	130 1E	9700	1155	5	10	65	203W	15252	47345N	49741	7209N	15242N	546W
17	59 37N	124 6E	9700	1200	5	10	65	211W	15156	47292N	49661	7214N	15144N	579W
17	59 53N	123 2E	9700	1205	5	10	65	214W	15130	47310N	49670	7216N	15118N	590W
17	60 10N	121 7E	9700	1210	5	10	65	235W	15021	47513N	49831	7227N	15006N	677W
17	60 26N	120 2E	9800	1215	5	10	65	244W	14811	47569N	49822	7242N	14794N	707W
17	60 43N	114 5E	9800	1220	5	10	65	243W	14803	47629N	49877	7244N	14787N	701W
17	61 00N	112 3E	9800	1225	5	10	65	248W	14537	47753N	49917	7304N	14520N	709W
17	61 17N	111 1E	9800	1230	5	10	65	311W	14439	47683N	49821	7309N	14416N	803W
17	61 34N	105 4E	9800	1235	5	10	65	317W	14361	47759N	49872	7316N	14337N	821W
17	61 51N	103 6E	9800	1240	5	10	65	259W	14302	47851N	49942	7322N	14282N	744W
17	62 08N	101 8E	9800	1245	5	10	65	329W	14089	47919N	49947	7337N	14063N	855W
17	62 26N	95 9E	9800	1250	5	10	65	406W	13973	48010N	50002	7346N	13938N	997W
17	62 44N	94 0E	9800	1255	5	10	65	355W	13923	48098N	50073	7351N	13890N	952W
17	63 02N	92 0E	9800	1300	5	10	65	433W	13821	48241N	50182	7401N	13777N	1098W
17	63 20N	88 9E	9800	1305	5	10	65	448W	13672	48411N	50305	7414N	13624N	1142W
17	63 38N	83 9E	9800	1310	5	10	65	452W	13474	48511N	50348	7429N	13426N	1142W
17	63 55N	81 1E	9800	1315	5	10	65	507W	13364	48501N	50309	7436N	13311N	1194W
17	63 28N	75 8E	9800	1335	5	10	65	522W	13766	48638N	50548	7412N	13705N	1288W
17	63 15N	80 4E	9900	1345	5	10	65	454W	13511	48518N	50473	7400N	13860N	1189W
17	63 02N	80 3E	10000	1345	5	10	65	507W	14058	48349N	50351	7347N	14001N	1255W
17	62 47N	84 7E	10000	1355	5	10	65	439W	14103	48198N	50219	7341N	14056N	1142W
17	62 31N	90 4E	10000	1355	5	10	65	358W	14103	48008N	50106	7322N	14313N	992W
17	62 15N	92 1E	10000	1400	5	10	65	410W	14225	47968N	50033	7329N	14187N	1035W
17	61 59N	93 7E	10000	1405	5	10	65	400W	14320	47918N	50012	7322N	14285N	1000W

FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
17	6142N	954E	10000	1410	5	10	65	356W	14390	47998N	50109	7319N	14356N	989W
17	6125N	1012E	10000	1415	5	10	65	358W	14493	47928N	50071	7310N	14459N	1001W
17	6107N	1031E	10000	1420	5	10	65	359W	14483	47808N	49954	7305N	14464N	743W
17	6049N	1049E	10000	1425	5	10	65	250W	14506	47778N	49931	7307N	14489N	718W
17	6030N	1108E	10000	1430	5	10	65	409W	14715	48118N	50318	7300N	14676N	1063W
17	6012N	1125E	10000	1435	5	10	65	328W	14987	47476N	49786	7229N	14960N	906W
17	5955N	1142E	9900	1440	5	10	65	242W	15131	47251N	49615	7215N	15114N	715W
17	5937N	1158E	9900	1445	5	10	65	214W	15069	47260N	49605	7219N	15057N	589W
17	5920N	1214E	9900	1450	5	10	65	234W	15277	47357N	49760	7207N	15262N	685W
17	5902N	1230E	9900	1455	5	10	65	231W	15481	47158N	49634	7150N	15466N	680W
17	5843N	1246E	9900	1500	5	10	65	157W	15586	46966N	49484	7139N	15577N	531W
17	5823N	1302E	9900	1505	5	10	65	142W	15701	46970N	49525	7131N	15694N	464W
17	5804N	1317E	9900	1510	5	10	65	139W	15916	46802N	49434	7113N	15909N	456W
17	5745N	1332E	9900	1515	5	10	65	54W	15987	46555N	49224	7103N	15985N	251W
17	5727N	1346E	9900	1520	5	10	65	122W	16131	46416N	49139	7050N	16127N	387W
17	5709N	1400E	9900	1525	5	10	65	109W	16237	46275N	49041	7040N	16234N	327W
17	5651N	1413E	9900	1530	5	10	65	20W	16382	46245N	49061	7030N	16381N	96W
17	5633N	1426E	9900	1535	5	10	65	31W	16459	46211N	49055	7024N	16458N	150W
17	5614N	1439E	9900	1540	5	10	65	13W	16551	46433N	49295	7023N	16551N	61W
17	5556N	1453E	9900	1545	5	10	65	30W	16954	46532N	49525	6959N	16954N	148W
17	5538N	1507E	9900	1550	5	10	65	16W	17225	45965N	49086	6927N	17225N	80W
18	5511N	1446E	10000	600	7	10	65	8W	17239	45784N	48922	6922N	17239N	38W
18	5528N	1433E	10000	605	7	10	65	57W	17144	45659N	48771	6925N	17142N	284W
18	5544N	1420E	10000	610	7	10	65	103W	17064	45753N	48831	6933N	17061N	313W
18	5601N	1408E	10000	615	7	10	65	52W	16883	46012N	49012	6951N	16881N	254W
18	5617N	1356E	10000	620	7	10	65	110W	16636	45996N	48912	7007N	16633N	339W
18	5634N	1344E	10000	625	7	10	65	146W	16517	46167N	49032	7019N	16509N	511W
18	5651N	1332E	10000	630	7	10	65	159W	16396	46237N	49058	7029N	16386N	566W
18	5707N	1320E	10000	635	7	10	65	159W	16276	46337N	49112	7039N	16266N	564W
18	5722N	1307E	10000	640	7	10	65	205W	16233	46432N	49188	7044N	16222N	591W
18	5738N	1255E	10000	645	7	10	65	224W	16129	46579N	49292	7054N	16114N	675W
18	5754N	1242E	10000	650	7	10	65	231W	15969	46739N	49392	7108N	15954N	701W
18	5810N	1229E	10000	655	7	10	65	226W	15834	46785N	49392	7118N	15820N	671W
18	5827N	1215E	10000	700	7	10	65	239W	15701	46873N	49432	7129N	15684N	727W
18	5843N	1202E	10000	705	7	10	65	241W	15708	46939N	49497	7130N	15691N	735W
18	5900N	1148E	10000	710	7	10	65	254W	15594	47067N	49583	7140N	15574N	791W
18	5916N	1134E	10000	715	7	10	65	232W	15267	47147N	49557	7203N	15252N	676W
18	5931N	1120E	10000	720	7	10	65	305W	15199	47138N	49528	7208N	15177N	816W
18	5946N	1105E	10000	725	7	10	65	349W	15303	47241N	49658	7203N	15269N	1019W
18	6001N	1051E	10000	730	7	10	65	428W	15272	47881N	50258	7219N	15226N	1190W
18	6016N	1035E	10000	735	7	10	65	214W	14827	47871N	50114	7247N	14815N	579W
18	6032N	1019E	10000	740	7	10	65	313W	14792	47682N	49923	7246N	14768N	830W
18	6047N	1002E	10000	745	7	10	65	330W	14709	47708N	49924	7252N	14681N	900W
18	6103N	947E	10000	750	7	10	65	333W	14592	47863N	50038	7303N	14564N	905W
18	6118N	932E	10000	755	7	10	65	355W	14461	47908N	50043	7312N	14428N	986W
18	6133N	917E	10000	800	7	10	65	423W	14274	47891N	49973	7324N	14232N	1089W
18	6149N	901E	10000	805	7	10	65	445W	14143	47868N	49913	7332N	14094N	1169W
18	6204N	845E	10000	810	7	10	65	501W	14091	47987N	50013	7338N	14037N	1231W
18	6219N	829E	10000	815	7	10	65	447W	14072	48101N	50117	7342N	14023N	1173W
18	6234N	812E	10000	820	7	10	65	458W	14056	48164N	50173	7344N	14003N	1217W
18	6250N	756E	10000	825	7	10	65	528W	14024	48278N	50274	7348N	13960N	1337W
18	6305N	739E	10000	830	7	10	65	534W	13800	48494N	50419	7407N	13735N	1338W
18	6321N	722E	10000	835	7	10	65	608W	13678	48617N	50504	7417N	13600N	1460W
18	6337N	705E	10000	840	7	10	65	643W	13749	48972N	50866	7419N	13655N	1607W
18	6313N	643E	10000	855	7	10	65	552W	13847	48561N	50497	7405N	13775N	1416W
18	6254N	705E	10000	900	7	10	65	531W	14017	48439N	50426	7352N	13952N	1346W
18	6235N	727E	10000	905	7	10	65	603W	14012	48127N	50125	7346N	13934N	1475W
18	6215N	748E	10000	910	7	10	65	530W	14025	48004N	50011	7343N	13960N	1343W
18	6156N	809E	10000	915	7	10	65	515W	14215	47948N	50011	7329N	14155N	1302W
18	6137N	829E	10000	920	7	10	65	443W	14249	47972N	50043	7327N	14201N	1173W
18	6117N	849E	10000	925	7	10	65	530W	14505	47762N	49916	7306N	14439N	1390W
18	6059N	909E	10000	930	7	10	65	441W	14725	47782N	49999	7252N	14675N	1202W
18	6040N	928E	10000	935	7	10	65	322W	14801	47513N	49765	7242N	14775N	868W
18	6022N	947E	10000	940	7	10	65	239W	14946	47436N	49735	7231N	14930N	692W
18	6003N	1006E	10000	945	7	10	65	308W	14920	47340N	49636	7230N	14898N	815W
18	5944N	1023E	10000	950	7	10	65	407W	15002	47471N	49785	7228N	14963N	1076W
18	5924N	1043E	10000	955	7	10	65	443W	15232	47167N	49566	7206N	15181N	1251W
18	5905N	1100E	10000	1000	7	10	65	350W	15447	47134N	49600	7151N	15412N	1030W
18	5846N	1117E	10000	1005	7	10	65	333W	15585	47046N	49560	7140N	15555N	966W
18	5828N	1133E	10000	1010	7	10	65	323W	15802	46947N	49535	7124N	15775N	932W
18	5808N	1149E	10000	1015	7	10	65	325W	15935	46700N	49344	7110N	15907N	950W
18	5750N	1204E	10000	1020	7	10	65	253W	15984	46594N	49260	7104N	15964N	803W
18	5732N	1218E	10000	1025	7	10	65	245W	16152	46478N	49204	7050N	16133N	773W
18	5714N	1232E	10000	1030	7	10	65	238W	16267	46417N	49185	7041N	16250N	745W
18	5655N	1246E	10000	1035	7	10	65	217W	16454	46192N	49035	7024N	16441N	657W
18	5637N	1300E	10000	1040	7	10	65	146W	16488	46041N	48905	7018N	16480N	509W
18	5619N	1315E	10000	1045	7	10	65	132W	16590	46089N	48984	7012N	16584N	443W
18	5601N	1329E	10000	1050	7	10	65	124W	16792	46032N	49000	6957N	16787N	411W
18	5543N	1343E	10000	1055	7	10	65	129W	16938	45920N	48944	6945N	16932N	438W

FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
18	55 25N	135 7E	10000	1100	7	10	65	115W	17129	45860N	48955	6931N	17125N	376W
18	55 23N	132 4E	10000	1120	7	10	65	47W	17205	45839N	48962	6926N	17203N	236W
18	55 41N	131 1E	10000	1125	7	10	65	105W	16983	45772N	48821	6939N	16980N	322W
18	55 59N	125 6E	10000	1130	7	10	65	120W	16896	46007N	49012	6950N	16891N	395W
18	56 18N	124 1E	10000	1135	7	10	65	135W	16723	46102N	49042	7004N	16717N	464W
18	56 36N	122 6E	10000	1140	7	10	65	203W	16492	46197N	49052	7021N	16482N	589W
18	56 55N	121 2E	10000	1145	7	10	65	235W	16399	46306N	49124	7030N	16382N	739W
18	57 14N	115 7E	10000	1150	7	10	65	214W	16259	46555N	49312	7045N	16246N	631W
18	57 29N	114 4E	10000	1155	7	10	65	157W	16066	46366N	49071	7053N	16057N	540W
18	57 43N	113 0E	10000	1200	7	10	65	206W	16119	46429N	49147	7051N	16108N	597W
18	57 58N	111 6E	10000	1205	7	10	65	214W	16077	46544N	49243	7057N	16065N	626W
18	58 13N	110 3E	10000	1210	7	10	65	222W	15890	46719N	49348	7113N	15877N	657W
18	58 27N	104 9E	10000	1215	7	10	65	224W	15653	46762N	49313	7130N	15639N	658W
18	58 42N	103 4E	10000	1220	7	10	65	233W	15755	46844N	49423	7125N	15739N	701W
18	58 56N	102 0E	10000	1225	7	10	65	318W	15831	47266N	49847	7129N	15805N	909W
18	59 12N	100 5E	10000	1230	7	10	65	251W	15456	47808N	50244	7205N	15437N	767W
18	59 28N	95 0E	10000	1235	7	10	65	142W	14891	47516N	49795	7236N	14884N	444W
18	59 44N	93 5E	10000	1240	7	10	65	203W	14994	46915N	49252	7217N	14984N	536W
18	60 00N	91 9E	10000	1245	7	10	65	324W	15014	47066N	49403	7218N	14987N	892W
18	60 16N	90 4E	10000	1250	7	10	65	353W	14953	47211N	49522	7226N	14919N	1011W
18	60 33N	84 7E	10000	1255	7	10	65	421W	14735	47426N	49662	7244N	14692N	1118W
18	60 48N	83 2E	10000	1300	7	10	65	343W	14685	47437N	49658	7248N	14654N	952W
18	61 03N	81 6E	10000	1305	7	10	65	341W	14581	47542N	49728	7257N	14551N	938W
18	61 18N	80 0E	10000	1310	7	10	65	340W	14557	47702N	49874	7302N	14528N	930W
18	61 33N	74 5E	10000	1315	7	10	65	438W	14331	47768N	49871	7318N	14284N	1156W
18	61 49N	73 0E	10000	1320	7	10	65	428W	14226	48018N	50081	7330N	14183N	1110W
18	62 04N	71 5E	10000	1325	7	10	65	542W	14061	48098N	50111	7342N	13991N	1397W
18	62 18N	65 7E	10000	1330	7	10	65	542W	14031	48015N	50023	7343N	13961N	1394W
18	62 33N	63 9E	10000	1335	7	10	65	518W	13967	48112N	50098	7349N	13907N	1289W
18	62 47N	62 1E	10000	1340	7	10	65	530W	13934	48294N	50264	7354N	13870N	1336W
18	63 03N	60 3E	10000	1345	7	10	65	531W	13710	48400N	50304	7411N	13647N	1317W
18	62 44N	53 7E	10000	1400	7	10	65	542W	14009	48197N	50192	7348N	13939N	1391W
18	62 22N	60 3E	10000	1405	7	10	65	534W	14037	48081N	50088	7344N	13970N	1363W
18	62 02N	62 7E	10000	1410	7	10	65	458W	14078	48024N	50045	7340N	14025N	1218W
18	61 42N	65 1E	10000	1415	7	10	65	458W	14331	48061N	50152	7324N	14277N	1242W
18	61 22N	71 4E	10000	1420	7	10	65	459W	14502	47815N	49966	7308N	14447N	1261W
18	61 02N	73 6E	10000	1425	7	10	65	455W	14473	47819N	49961	7310N	14420N	1240W
18	60 43N	75 7E	10000	1430	7	10	65	447W	14813	47541N	49796	7242N	14761N	1236W
18	60 23N	81 7E	10000	1435	7	10	65	427W	14769	47361N	49610	7241N	14724N	1146W
18	60 03N	83 7E	10000	1440	7	10	65	401W	15050	47330N	49665	7222N	15013N	1055W
18	59 44N	85 7E	10000	1445	7	10	65	347W	15096	47147N	49505	7215N	15063N	996W
18	59 24N	91 7E	10000	1450	7	10	65	222W	15199	47135N	49525	7208N	15186N	627W
18	59 05N	93 7E	10000	1455	7	10	65	145W	15669	47087N	49625	7136N	15662N	479W
18	58 45N	95 6E	10000	1500	7	10	65	226W	15782	46912N	49495	7124N	15768N	671W
18	58 25N	101 5E	10000	1505	7	10	65	249W	15733	46822N	49395	7126N	15714N	771W
18	58 06N	103 3E	10000	1510	7	10	65	236W	15867	46766N	49385	7116N	15851N	719W
18	57 47N	104 8E	10000	1515	7	10	65	251W	16088	46595N	49294	7057N	16069N	801W
18	57 28N	110 2E	10000	1520	7	10	65	219W	16179	46359N	49101	7046N	16165N	656W
18	57 08N	111 8E	10000	1525	7	10	65	158W	16292	46376N	49154	7039N	16282N	559W
18	56 48N	113 3E	10000	1530	7	10	65	148W	16583	46252N	49135	7017N	16575N	523W
18	56 28N	114 9E	10000	1535	7	10	65	145W	16660	46090N	49009	7008N	16653N	509W
18	56 08N	120 4E	10000	1540	7	10	65	119W	16778	46005N	48969	6958N	16774N	383W
18	55 49N	121 9E	10000	1545	7	10	65	117W	17079	45793N	48874	6933N	17075N	383W
18	55 30N	123 4E	10000	1550	7	10	65	56W	17127	45647N	48754	6926N	17125N	281W
19	55 09N	121 8E	10000	620	8	10	65	147W	17188	45600N	48732	6921N	17180N	534W
19	55 25N	120 6E	10000	625	8	10	65	206W	17058	45617N	48702	6930N	17046N	625W
19	55 40N	115 3E	10000	630	8	10	65	231W	17058	45735N	48812	6933N	17041N	749W
19	55 57N	114 0E	10000	635	8	10	65	250W	16877	45914N	48918	6949N	16856N	834W
19	56 13N	112 7E	10000	640	8	10	65	239W	16650	46006N	48927	7006N	16632N	771W
19	56 30N	111 4E	10000	645	8	10	65	229W	16675	46129N	49051	7008N	16660N	721W
19	56 46N	105 9E	10000	650	8	10	65	249W	16540	46334N	49198	7021N	16520N	813W
19	57 01N	104 5E	10000	655	8	10	65	316W	16248	46384N	49147	7042N	16221N	926W
19	57 17N	103 0E	10000	700	8	10	65	325W	16152	46349N	49082	7047N	16123N	962W
19	57 33N	101 5E	10000	705	8	10	65	252W	16196	46456N	49198	7047N	16175N	811W
19	57 49N	100 0E	10000	710	8	10	65	250W	15993	46520N	49192	7102N	15974N	791W
19	58 05N	94 5E	10000	715	8	10	65	317W	15842	46598N	49217	7113N	15816N	909W
19	58 21N	92 9E	10000	720	8	10	65	333W	15771	46596N	49193	7118N	15741N	977W
19	58 37N	91 3E	10000	725	8	10	65	314W	15614	46733N	49273	7132N	15589N	878W
19	58 54N	85 8E	10000	730	8	10	65	411W	15614	46807N	49343	7133N	15572N	1139W
19	59 10N	84 2E	10000	735	8	10	65	439W	15335	47068N	49503	7157N	15285N	1244W
19	59 27N	82 6E	10000	740	8	10	65	519W	15181	47076N	49463	7208N	15116N	1406W
19	59 43N	81 0E	10000	745	8	10	65	559W	15004	47364N	49684	7225N	14922N	1565W
19	59 59N	75 4E	10000	750	8	10	65	534W	14760	47451N	49694	7243N	14690N	1432W
19	60 15N	73 7E	10000	755	8	10	65	503W	14929	47521N	49811	7234N	14871N	1313W
19	60 31N	71 9E	10000	800	8	10	65	409W	14721	47568N	49793	7248N	14682N	1064W
19	60 47N	70 1E	10000	805	8	10	65	451W	14701	47590N	49808	7250N	14648N	1243W
19	61 02N	64 5E	10000	810	8	10	65	450W	14592	47796N	49974	7301N	14541N	1229W
19	61 18N	62 8E	10000	815	8	10	65	519W	14472	47864N	50004	7311N	14410N	1341W
19	61 33N	61 1E	10000	820	8	10	65	512W	14360	47932N	50037	7319N	14301N	1300W

FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
19	6148N	5533E	10000	825	8	10	65	554W	14230	47926N	49994	7328N	14155N	1461W
19	6204N	5335E	10000	830	8	10	65	606W	14180	48128N	50174	7335N	14100N	1505W
19	6219N	5117E	10000	835	8	10	65	642W	1397C	48247N	50229	7351N	13874N	1631W
19	6236N	458E	10000	840	8	10	65	620W	13843	48200N	50149	7359N	13759N	1527W
19	6156N	500E	10000	900	8	10	65	655W	14311	47935N	50026	7323N	14207N	1725W
19	6137N	522E	10000	905	8	10	65	628W	14241	47795N	49871	7324N	14150N	1603W
19	6119N	543E	10000	910	8	10	65	609W	14580	47725N	49844	7314N	14300N	1512W
19	6100N	603E	10000	915	8	10	65	518W	14582	47745N	49925	7300N	14530N	1348W
19	6042N	623E	10000	920	8	10	65	516W	14730	47464N	49697	7246N	14667N	1351W
19	6025N	644E	10000	925	8	10	65	502W	14732	47404N	49641	7244N	14675N	1291W
19	6007N	704E	10000	930	8	10	65	454W	14890	47394N	49678	7234N	14835N	1271W
19	5949N	723E	10000	935	8	10	65	458W	14930	47284N	49585	7229N	14874N	1293W
19	5930N	742E	10000	940	8	10	65	446W	15134	47595N	49943	7222N	15082N	1256W
19	5911N	800E	10000	945	8	10	65	510W	15319	47286N	49706	7203N	15257N	1378W
19	5852N	818E	10000	950	8	10	65	458W	15621	47230N	49746	7142N	15562N	1353W
19	5834N	836E	10000	955	8	10	65	417W	15621	46681N	49226	7130N	15577N	1166W
19	5815N	853E	10000	1000	8	10	65	418W	15728	46740N	49316	7124N	15684N	1177W
19	5757N	910E	10000	1005	8	10	65	437W	15867	46693N	49316	7114N	15816N	1276W
19	5738N	927E	10000	1010	8	10	65	402W	16021	46391N	49079	7057N	15982N	1127W
19	5720N	944E	10000	1015	8	10	65	340W	16147	46406N	49135	7049N	16114N	1032W
19	5701N	1000E	10000	1020	8	10	65	307W	16305	46251N	49040	7035N	16281N	884W
19	5643N	1017E	10000	1025	8	10	65	256W	16508	46247N	49105	7021N	16487N	843W
19	5625N	1033E	10000	1030	8	10	65	309W	16566	46066N	48955	7013N	16541N	912W
19	5608N	1049E	10000	1035	8	10	65	254W	16696	45940N	48880	7002N	16675N	844W
19	5551N	1103E	10000	1040	8	10	65	234W	16902	45875N	48890	6946N	16885N	757W
19	5533N	1119E	10000	1045	8	10	65	249W	17024	45654N	48725	6933N	17003N	835W
19	5514N	1133E	10000	1050	8	10	65	244W	17020	45698N	48764	6934N	17000N	814W
19	5456N	1151E	10000	1055	8	10	65	241W	17345	45512N	48705	6908N	17326N	812W
19	5504N	1105E	9900	1115	8	10	65	306W	17343	45658N	48841	6912N	17318N	939W
19	5519N	1051E	9900	1120	8	10	65	303W	16930	45813N	48842	6943N	16906N	902W
19	5535N	1037E	9900	1125	8	10	65	305W	16838	45655N	48661	6945N	16814N	908W
19	5552N	1130E	9900	1130	8	10	65	307W	16855	45713N	48722	6946N	16830N	916W
19	5609N	1010E	9900	1135	8	10	65	327W	16796	45922N	48897	6955N	16766N	1008W
19	5625N	956E	9900	1140	8	10	65	329W	16627	46100N	49007	7010N	16596N	1010W
19	5641N	945E	9900	1145	8	10	65	320W	16358	46180N	48991	7030N	16330N	950W
19	5657N	927E	9900	1150	8	10	65	340W	16360	46180N	48992	7030N	16326N	1048W
19	5712N	912E	9900	1155	8	10	65	402W	16172	46415N	49152	7047N	16132N	1136W
19	5727N	858E	9900	1200	8	10	65	410W	16141	46463N	49187	7051N	16099N	1173W
19	5742N	843E	9900	1205	8	10	65	419W	16248	46887N	49623	7053N	16203N	1221W
19	5757N	828E	9900	1210	8	10	65	422W	15662	46970N	49512	7134N	15616N	1195W
19	5812N	813E	9900	1215	8	10	65	444W	15684	46690N	49253	7126N	15630N	1292W
19	5827N	758E	9900	1220	8	10	65	510W	15652	46868N	49412	7132N	15588N	1410W
19	5842N	744E	9900	1225	8	10	65	501W	15605	46900N	49428	7136N	15545N	1364W
19	5857N	729E	9900	1230	8	10	65	528W	15470	47086N	49562	7149N	15400N	1473W
19	5912N	714E	9900	1235	8	10	65	525W	15163	47430N	49794	7216N	15095N	1432W
19	5927N	659E	9900	1240	8	10	65	452W	15172	47384N	49753	7215N	15117N	1288W
19	5941N	644E	9900	1245	8	10	65	526W	15046	47176N	49517	7219N	14978N	1422W
19	5956N	629E	9900	1250	8	10	65	547W	14962	47323N	49632	7227N	14886N	1508W
19	6011N	613E	9900	1255	8	10	65	551W	14787	47421N	49673	7241N	14710N	1508W
19	6027N	556E	9900	1300	8	10	65	602W	14815	47407N	49667	7239N	14732N	1558W
19	6043N	538E	9900	1305	8	10	65	626W	14646	47627N	49828	7254N	14554N	1640W
19	6058N	521E	9900	1310	8	10	65	619W	14548	47662N	49833	7302N	14460N	1602W
19	6114N	503E	9900	1315	8	10	65	643W	14471	47686N	49833	7307N	14372N	1694W
19	6129N	445E	9900	1320	8	10	65	702W	14265	47825N	49907	7324N	14158N	1745W
19	6144N	427E	9900	1325	8	10	65	749W	14245	47956N	50027	7327N	14112N	1937W
19	6120N	403E	9900	1345	8	10	65	723W	14546	47769N	49935	7304N	14426N	1868W
19	6102N	426E	9900	1350	8	10	65	706W	14551	47642N	49815	7301N	14440N	1799W
19	6043N	448E	9900	1355	8	10	65	650W	14614	47592N	49785	7256N	14511N	1737W
19	6025N	509E	9900	1400	8	10	65	647W	14742	47489N	49724	7245N	14639N	1741W
19	6007N	529E	9900	1405	8	10	65	616W	14925	47299N	49598	7229N	14835N	1630W
19	5948N	549E	9900	1410	8	10	65	551W	15036	47228N	49564	7220N	14958N	1532W
19	5930N	611E	9900	1415	8	10	65	536W	15160	47085N	49466	7209N	15088N	1480W
19	5911N	632E	9900	1420	8	10	65	521W	15316	47106N	49534	7159N	15250N	1427W
19	5852N	653E	9900	1425	8	10	65	425W	16003	46726N	49390	7106N	15956N	1231W
19	5833N	712E	9900	1430	8	10	65	423W	15522	47082N	49575	7145N	15477N	1185W
19	5814N	731E	9900	1435	8	10	65	528W	15731	46823N	49395	7126N	15659N	1497W
19	5755N	750E	9900	1440	8	10	65	409W	16115	46703N	49405	7058N	16073N	1169W
19	5735N	810E	9900	1445	8	10	65	356W	16117	46479N	49194	7053N	16080N	1103W
19	5715N	829E	9900	1450	8	10	65	448W	16111	46391N	49109	7051N	16055N	1349W
19	5654N	847E	9900	1455	8	10	65	425W	16374	46294N	49104	7031N	16325N	1260W
19	5634N	904E	9900	1500	8	10	65	356W	16567	46055N	48944	7013N	16528N	1137W
19	5616N	920E	9900	1505	8	10	65	340W	16727	46008N	48954	7001N	16693N	1072W
19	5558N	936E	9900	1510	8	10	65	400W	16704	45717N	48673	6956N	16663N	1165W
19	5540N	952E	9900	1515	8	10	65	356W	16830	45885N	48874	6951N	16791N	1153W
19	5521N	1007E	9900	1520	8	10	65	317W	17083	45663N	48754	6929N	17054N	981W
19	5502N	1021E	9900	1525	8	10	65	251W	17255	45523N	48683	6914N	17233N	859W
21	6221N	2742E	12000	735	11	10	65	614E	14070	49319N	51286	7405N	13986N	1529E
21	6212N	2701E	12000	740	11	10	65	603E	14053	49168N	51137	7403N	13974N	1480E
21	6204N	2619E	12000	745	11	10	65	528E	14182	49093N	51101	7353N	14117N	1350E

FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
21	6155N	2539E	12000	750	11	10	65	511E	14175	49017N	51026	7352N	14117N	1281E
21	6145N	2458E	12000	755	11	10	65	447E	14545	49044N	51156	7329N	14495N	1223E
21	6136N	2418E	12000	800	11	10	65	443E	14547	48689N	50815	7322N	14498N	1235E
21	6127N	2339E	12000	805	11	10	65	358E	14461	48474N	50585	7323N	14427N	1199E
21	6117N	2300E	12000	810	11	10	65	325E	14261	48512N	50565	7337N	14235N	851E
21	6108N	2222E	12000	815	11	10	65	347E	14453	48445N	50555	7323N	14422N	955E
21	6058N	2142E	12000	820	11	10	65	248E	14655	48227N	50404	7306N	14637N	715E
21	6050N	2102E	12000	825	11	10	65	158E	14654	48155N	50335	7304N	14645N	504E
21	6039N	2024E	12000	830	11	10	65	50E	14603	48567N	50715	7316N	14602N	212E
21	6028N	1946E	12000	835	11	10	65	130E	14990	48618N	50876	7252N	14985N	394E
21	6017N	1908E	12000	840	11	10	65	208E	15012	48243N	50525	7243N	15002N	555E
21	6006N	1831E	12000	845	11	10	65	113E	15074	47982N	50295	7234N	15071N	320E
21	5955N	1754E	12000	850	11	10	65	100E	15202	47732N	50095	7220N	15200N	266E
21	5943N	1722E	12000	855	11	10	65	28E	15187	47442N	49813	7215N	15187N	123E
21	5947N	1650E	12000	915	11	10	65	9E	15157	47498N	49858	7218N	15157N	39E
21	5959N	1640E	12000	920	11	10	65	1W	15098	47612N	49948	7224N	15098N	3W
21	6012N	1631E	12000	925	11	10	65	8E	15001	47658N	49963	7232N	15001N	34E
21	6026N	1621E	12000	930	11	10	65	3W	14779	47728N	49964	7248N	14779N	12W
21	6040N	1610E	12000	935	11	10	65	19W	14794	47676N	49918	7246N	14794N	83W
21	6054N	1600E	12000	940	11	10	65	36W	14697	47888N	50093	7256N	14696N	153W
21	6108N	1549E	12000	945	11	10	65	53W	14561	47893N	50058	7305N	14560N	224W
21	6122N	1538E	12000	950	11	10	65	46W	14499	48059N	50198	7313N	14498N	194W
21	6136N	1526E	12000	955	11	10	65	122W	14314	48135N	50218	7326N	14310N	341W
21	6150N	1514E	12000	1000	11	10	65	134W	14291	48153N	50229	7328N	14286N	390W
21	6205N	1502E	12000	1005	11	10	65	228W	14139	48448N	50469	7344N	14126N	610W
21	6219N	1450E	12000	1010	11	10	65	235W	14031	48458N	50449	7351N	14016N	631W
21	6234N	1437E	12000	1015	11	10	65	254W	13822	48706N	50629	7409N	13804N	695W
21	6249N	1424E	12000	1020	11	10	65	307W	13711	48810N	50699	7419N	13691N	747W
21	6304N	1410E	12000	1025	11	10	65	203W	13718	48855N	50744	7419N	13709N	490W
21	6318N	1356E	12000	1030	11	10	65	140W	13621	49053N	50909	7429N	13615N	398W
21	6333N	1342E	12000	1035	11	10	65	143W	13318	49058N	50834	7449N	13312N	400W
21	6348N	1328E	12000	1040	11	10	65	134W	13389	49034N	50829	7444N	13384N	365W
21	6402N	1313E	12000	1045	11	10	65	142W	13285	49135N	50900	7452N	13279N	396W
21	6417N	1258E	12000	1050	11	10	65	152W	13105	49142N	50860	7504N	13098N	426W
21	6433N	1242E	12000	1055	11	10	65	155W	12975	49073N	50760	7511N	12967N	435W
21	6448N	1227E	12000	1100	11	10	65	211W	12927	49059N	50734	7514N	12917N	493W
21	6503N	1211E	12000	1105	11	10	65	239W	12878	49108N	50769	7518N	12864N	597W
21	6518N	1154E	12000	1110	11	10	65	231W	12750	49120N	50748	7527N	12738N	559W
21	6533N	1138E	12000	1115	11	10	65	254W	12754	49130N	50759	7527N	12738N	644W
21	6547N	1120E	12000	1120	11	10	65	247W	12652	49250N	50849	7536N	12637N	615W
21	6517N	1059E	12000	1135	11	10	65	417W	12856	49121N	50776	7520N	12820N	961W
21	6456N	1122E	11900	1140	11	10	65	320W	13061	49032N	50741	7505N	13039N	760W
21	6437N	1144E	11900	1145	11	10	65	252W	13088	48899N	50620	7501N	13071N	654W
21	6418N	1206E	11900	1150	11	10	65	219W	13135	48990N	50721	7459N	13124N	530W
21	6358N	1226E	11900	1155	11	10	65	203W	13221	49009N	50761	7454N	13212N	474W
21	6337N	1246E	11900	1200	11	10	65	208W	13371	49041N	50831	7445N	13362N	496W
21	6317N	1306E	11900	1205	11	10	65	212W	13500	48932N	50761	7435N	13491N	518W
21	6257N	1326E	11900	1210	11	10	65	210W	13699	48939N	50820	7422N	13689N	519W
21	6237N	1346E	11900	1215	11	10	65	151W	13808	48815N	50730	7412N	13801N	444W
21	6216N	1406E	11900	1220	11	10	65	214W	13984	48890N	50851	7402N	13974N	544W
21	6156N	1425E	11900	1225	11	10	65	208W	14347	48598N	50671	7333N	14337N	533W
21	6134N	1443E	11900	1230	11	10	65	243W	14334	48298N	50380	7328N	14318N	680W
21	6113N	1501E	11900	1235	11	10	65	230W	14410	48160N	50270	7321N	14396N	631W
21	6051N	1519E	11900	1240	11	10	65	137W	14687	47972N	50170	7259N	14682N	415W
21	6030N	1537E	11900	1245	11	10	65	120W	14738	47767N	49989	7251N	14733N	344W
21	6008N	1552E	11900	1250	11	10	65	35W	14871	47768N	50030	7242N	14870N	150W
21	5947N	1608E	11900	1255	11	10	65	44W	15055	47710N	50029	7229N	15054N	191W
21	5926N	1623E	11900	1300	11	10	65	29W	15353	47605N	50020	7208N	15352N	130W
21	5905N	1638E	11900	1305	11	10	65	14W	15429	47169N	49629	7153N	15429N	63W
21	5844N	1654E	11900	1310	11	10	65	2E	15349	47185N	49619	7159N	15349N	7E
21	5824N	1709E	11900	1315	11	10	65	8W	15562	47147N	49649	7144N	15562N	34W
21	5803N	1724E	11900	1320	11	10	65	19E	15509	47472N	49941	7154N	15509N	87E
21	5741N	1738E	11900	1325	11	10	65	39E	16146	47140N	49829	7106N	16145N	182E
21	5719N	1752E	11900	1330	11	10	65	7W	16123	46841N	49538	7100N	16123N	30W
21	5657N	1806E	11900	1335	11	10	65	11W	16303	46843N	49599	7049N	16303N	52E
21	5705N	1844E	11900	1355	11	10	65	118E	16363	46543N	49336	7038N	16359N	371E
21	5720N	1833E	11900	1400	11	10	65	49E	16344	46752N	49526	7044N	16343N	234E
21	5734N	1822E	11900	1405	11	10	65	32E	16045	46930N	49597	7108N	16044N	148E
21	5749N	1812E	11900	1410	11	10	65	32E	15940	46976N	49607	7115N	15939N	150E
21	5803N	1801E	11900	1415	11	10	65	22E	15728	47152N	49706	7133N	15728N	98E
21	5819N	1751E	11900	1420	11	10	65	17E	15755	47334N	49887	7135N	15755N	78E
21	5835N	1740E	11900	1425	11	10	65	30E	15501	47334N	49807	7152N	15500N	135E
21	5851N	1729E	11900	1430	11	10	65	1E	15440	47121N	49586	7151N	15440N	4E
21	5908N	1718E	11900	1435	11	10	65	38E	15487	47153N	49631	7149N	15486N	172E
21	5924N	1707E	11900	1440	11	10	65	13E	15471	47386N	49847	7155N	15471N	6E
21	5915N	1556E	11900	1500	11	10	65	35W	15411	47380N	49823	7159N	15410N	156W
21	5904N	1520E	11900	1505	11	10	65	28W	15402	47236N	49683	7156N	15401N	124W
21	5853N	1445E	11900	1510	11	10	65	40W	15489	47260N	49733	7151N	15488N	178W
21	5842N	1411E	11900	1515	11	10	65	139W	15495	46983N	49472	7145N	15488N	444W

FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
221	5831N	1336E	11900	1520	11	10	65	144W	15771	46965N	49542	7126N	15764N	478W
221	5820N	1302E	11900	1525	11	10	65	200W	15722	46950N	49513	7129N	15713N	551W
221	5809N	1228E	11900	1530	11	10	65	200W	15688	46803N	49362	7128N	15678N	566W
221	5757N	1155E	11900	1535	11	10	65	226W	15945	46621N	49272	7107N	15930N	676W
221	5746N	1121E	11900	1540	11	10	65	258W	16049	46521N	49212	7058N	16027N	832W
221	5734N	1049E	11900	1545	11	10	65	335W	16082	46436N	49142	7054N	16053N	958W
221	5722N	1016E	11900	1550	11	10	65	335W	16146	46413N	49141	7049N	16115N	1002W
221	5709N	944E	11900	1555	11	10	65	338W	16127	46399N	49122	7050N	16094N	1023W
221	5657N	913E	11900	1600	11	10	65	358W	16335	46273N	49072	7033N	16296N	1128W
221	5645N	843E	11900	1605	11	10	65	428W	16587	46152N	49042	7014N	16536N	1293W
221	5633N	813E	11900	1610	11	10	65	403W	16548	46033N	48916	7014N	16506N	1166W
221	5620N	745E	11900	1615	11	10	65	407W	16481	45939N	48806	7016N	16439N	1182W
221	5607N	717E	11900	1620	11	10	65	447W	16706	45762N	48716	6957N	16648N	1393W
222	5518N	931E	10000	935	13	10	65	329W	17173	45665N	48787	6923N	17141N	1042W
222	5534N	917E	10000	940	13	10	65	331W	17006	45882N	48932	6940N	16974N	1044W
222	5549N	903E	10000	945	13	10	65	327W	16730	45722N	48687	6954N	16700N	1007W
222	5605N	849E	10000	950	13	10	65	347W	16702	45748N	48702	6957N	16666N	1103W
222	5620N	835E	10000	955	13	10	65	349W	16654	45904N	48832	7004N	16617N	1111W
222	5635N	822E	10000	1000	13	10	65	357W	16613	46014N	48922	7009N	16574N	1144W
222	5649N	808E	10000	1005	13	10	65	347W	16414	46150N	48982	7025N	16378N	1082W
222	5704N	755E	10000	1010	13	10	65	354W	16376	46131N	48952	7027N	16338N	1115W
222	5720N	740E	10000	1015	13	10	65	433W	16239	46329N	49092	7041N	16187N	1290W
222	5736N	725E	10000	1020	13	10	65	513W	16108	46449N	49163	7052N	16041N	1464W
222	5752N	710E	10000	1025	13	10	65	522W	16079	46850N	49533	7103N	16009N	1505W
222	5808N	654E	10000	1030	13	10	65	402W	15769	47156N	49723	7131N	15730N	1110W
222	5823N	640E	10000	1035	13	10	65	441W	15510	46846N	49347	7141N	15458N	1267W
222	5838N	625E	10000	1040	13	10	65	526W	15533	46781N	49293	7138N	15463N	1469W
222	5854N	610E	10000	1045	13	10	65	528W	15441	46970N	49443	7148N	15373N	1473W
222	5908N	553E	10000	1050	13	10	65	533W	15305	46988N	49418	7157N	15234N	1482W
222	5923N	537E	10000	1055	13	10	65	556W	15257	47009N	49423	7201N	15176N	1576W
222	5937N	519E	10000	1100	13	10	65	619W	15161	47218N	49592	7212N	15069N	1669W
222	5952N	502E	10000	1105	13	10	65	636W	14982	47296N	49612	7225N	14883N	1723W
222	6008N	444E	10000	1110	13	10	65	648W	14907	47362N	49653	7232N	14802N	1767W
222	6023N	425E	10000	1115	13	10	65	637W	14793	47471N	49723	7242N	14694N	1705W
222	6037N	408E	10000	1120	13	10	65	648W	14637	47456N	49662	7251N	14534N	1734W
222	6051N	351E	10000	1125	13	10	65	653W	14562	47516N	49698	7258N	14457N	1747W
222	6105N	334E	10000	1130	13	10	65	717W	14531	47594N	49762	7301N	14414N	1841W
222	6031N	329E	10000	1150	13	10	65	705W	14662	47420N	49635	7249N	14551N	1808W
222	6014N	350E	10000	1155	13	10	65	720W	14754	47423N	49665	7243N	14633N	1884W
222	5957N	410E	10000	1200	13	10	65	636W	15032	47246N	49580	7221N	14932N	1729W
222	5938N	431E	10000	1205	13	10	65	615W	15115	47178N	49540	7214N	15025N	1647W
222	5919N	452E	10000	1210	13	10	65	619W	15285	47076N	49495	7201N	15192N	1683W
222	5900N	512E	10000	1215	13	10	65	553W	15415	46970N	49434	7150N	15333N	1581W
222	5842N	531E	10000	1220	13	10	65	536W	15577	46732N	49260	7134N	15503N	1519W
222	5825N	549E	10000	1225	13	10	65	548W	15647	46532N	49092	7125N	15567N	1580W
222	5807N	606E	10000	1230	13	10	65	530W	15775	46424N	49031	7114N	15702N	1513W
222	5749N	624E	10000	1235	13	10	65	456W	15878	46474N	49112	7108N	15819N	1365W
222	5731N	642E	10000	1240	13	10	65	433W	16190	46444N	49185	7047N	16139N	1284W
222	5713N	700E	10000	1245	13	10	65	503W	16210	46183N	48945	7040N	16147N	1428W
222	5655N	718E	10000	1250	13	10	65	434W	16329	46194N	48995	7032N	16277N	1299W
222	5638N	736E	10000	1255	13	10	65	434W	16537	46087N	48965	7016N	16485N	1318W
222	5620N	754E	10000	1300	13	10	65	434W	16537	45939N	48825	7012N	16484N	1319W
222	5602N	811E	10000	1305	13	10	65	447W	16669	45848N	48784	7001N	16611N	1391W
222	5544N	828E	10000	1310	13	10	65	419W	16811	45701N	48695	6948N	16763N	1263W
222	5527N	845E	10000	1315	13	10	65	350W	17078	45628N	48719	6929N	17040N	1141W
222	5509N	901E	10000	1320	13	10	65	334W	17310	45401N	48589	6908N	17277N	1076W
222	5451N	917E	10000	1325	13	10	65	323W	17304	45258N	48454	6905N	17274N	1021W
223	5436N	901E	14000	1205	16	10	65	323W	17498	45265N	48529	6852N	17468N	1032W
223	5450N	848E	14000	1210	16	10	65	337W	17288	45346N	48529	6908N	17253N	1092W
223	5519N	824E	13900	1220	16	10	65	344W	17053	45765N	48839	6934N	17017N	1111W
223	5534N	812E	13800	1225	16	10	65	325W	16863	45743N	48752	6946N	16832N	1006W
223	5634N	659E	13700	1245	16	10	65	503W	16328	46032N	48842	7028N	16265N	1438W
223	5649N	644E	13700	1250	16	10	65	442W	16442	46082N	48928	7022N	16387N	1347W
223	5704N	629E	13700	1255	16	10	65	503W	16353	46273N	49077	7032N	16290N	1440W
223	5720N	613E	13700	1300	16	10	65	431W	16084	46315N	49028	7051N	16034N	1268W
223	5736N	557E	13700	1305	16	10	65	441W	16057	46329N	49032	7053N	16003N	1312W
223	5751N	541E	13800	1310	16	10	65	522W	15789	46484N	49092	7114N	15720N	1476W
223	5805N	526E	13800	1315	16	10	65	525W	15718	46589N	49169	7121N	15648N	1483W
223	5820N	511E	13800	1320	16	10	65	552W	15695	46602N	49174	7123N	15613N	1605W
223	5834N	456E	14000	1325	16	10	65	539W	15550	46688N	49210	7135N	15475N	1531W
223	5849N	440E	14200	1330	16	10	65	607W	15446	46704N	49191	7142N	15358N	1644W
223	5904N	423E	14200	1335	16	10	65	635W	15416	46814N	49287	7146N	15314N	1769W
223	5920N	406E	14200	1340	16	10	65	640W	15192	47029N	49422	7206N	15080N	1765W
223	5935N	349E	14200	1345	16	10	65	645W	15219	47020N	49422	7204N	15114N	1789W
223	5950N	332E	14200	1350	16	10	65	709W	15091	47198N	49552	7216N	14974N	1877W
223	6005N	313E	14200	1355	16	10	65	722W	14921	47315N	49612	7230N	14798N	1912W
223	6021N	254E	14200	1400	16	10	65	741W	14779	47360N	49612	7240N	14647N	1976W
223	6036N	235E	14200	1405	16	10	65	800W	14635	47383N	49592	7250N	14492N	2039W
223	6052N	216E	14200	1410	16	10	65	820W	14623	47434N	49637	7252N	14469N	2120W

FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
23	6107N	157E	14200	1415	16	10	65	840W	14591	47543N	49732	7256N	14425N	2197W
23	6121N	139E	14200	1420	16	10	65	903W	14528	47783N	49943	7305N	14347N	2286W
23	6136N	121E	14200	1425	16	10	65	857W	14292	48074N	50154	7327N	14118N	2225W
23	6150N	103E	14200	1430	16	10	65	852W	14042	48022N	50033	7342N	13874N	2165W
23	6204N	44E	14200	1435	16	10	65	935W	13985	48054N	50048	7346N	13790N	2328W
23	6219N	24E	14200	1440	16	10	65	938W	13865	48078N	50038	7355N	13669N	2319W
23	6235N	OW	14200	1445	16	10	65	950W	13836	48097N	50048	7357N	13633N	2361W
23	6307N	49W	14100	1455	16	10	65	1102W	13688	48310N	50212	7411N	13435N	2619W
23	6323N	114W	14000	1500	16	10	65	1121W	13588	48474N	50342	7420N	13322N	2675W
23	6339N	139W	14000	1505	16	10	65	1146W	13544	48621N	50472	7426N	13260N	2763W
23	6354N	204W	14000	1510	16	10	65	1148W	13275	48747N	50523	7446N	12995N	2714W
23	6432N	426W	14000	1530	16	10	65	1413W	12942	48917N	50600	7511N	12546N	3178W
23	6437N	508W	14000	1535	16	10	65	1407W	12888	49066N	50730	7517N	12499N	3145W
23	6443N	551W	14000	1540	16	10	65	1450W	12857	48981N	50640	7518N	12428N	3293W
23	6449N	635W	14000	1545	16	10	65	1516W	12815	49069N	50715	7522N	12363N	3374W
23	6456N	719W	14000	1550	16	10	65	1603W	12733	49194N	50815	7529N	12236N	3521W
23	6502N	803W	14000	1555	16	10	65	1659W	12766	49325N	50951	7529N	12209N	3730W
23	6508N	847W	14000	1600	16	10	65	1656W	12647	49485N	51075	7540N	12099N	3683W
23	6513N	933W	14000	1605	16	10	65	1724W	12543	49476N	51041	7546N	11969N	3750W
23	6518N	1019W	14000	1610	16	10	65	1803W	12336	49515N	51028	7601N	11729N	3823W
23	6523N	1105W	14000	1615	16	10	65	1914W	12406	49615N	51143	7558N	11714N	4085W
23	6527N	1152W	14000	1620	16	10	65	1929W	12435	49625N	51159	7556N	11723N	4149W
23	6532N	1229W	14000	1625	16	10	65	2042W	12325	49906N	51405	7608N	11530N	4356W
23	6537N	1314W	14000	1630	16	10	65	2036W	12001	49936N	51358	7629N	11234N	4224W
23	6541N	1404W	14000	1635	16	10	65	2201W	12222	49926N	51400	7615N	11330N	4583W
23	6546N	1454W	14000	1640	16	10	65	2206W	12122	49946N	51396	7621N	11334N	4297W
23	6549N	1545W	14000	1645	16	10	65	2248W	12252	49996N	51475	7614N	11294N	4749W
23	6552N	1636W	14000	1650	16	10	65	2352W	12212	50216N	51680	7620N	11167N	4943W
23	6555N	1727W	14000	1655	16	10	65	2338W	12001	49956N	51377	7629N	10995N	4811W
23	6558N	1819W	14000	1700	16	10	65	2433W	11824	50316N	51687	7647N	10755N	4913W
23	6600N	1912W	14000	1705	16	10	65	2523W	12063	50587N	52005	7635N	10898N	5171W
23	6601N	2004W	14000	1710	16	10	65	2542W	11704	50427N	51767	7656N	10546N	5075W
23	6602N	2056W	14000	1715	16	10	65	2701W	11662	50697N	52021	7703N	10389N	5298W
23	6602N	2147W	14000	1720	16	10	65	2719W	11924	50667N	52051	7645N	10595N	5471W
23	6602N	2237W	14000	1725	16	10	65	2727W	11644	50747N	52066	7705N	10333N	5367W
24	6510N	2343W	9000	825	17	10	65	2614W	12239	50411N	51876	7621N	10978N	5411W
24	6528N	2355W	10000	830	17	10	65	2710W	12028	50846N	52249	7641N	10702N	5490W
24	6546N	2408W	10000	835	17	10	65	2710W	11874				10563N	5422W
24	6605N	2420W	10000	840	17	10	65	2742W	11602	50801N	52109	7708N	10272N	5394W
24	6624N	2433W	10000	845	17	10	65	2825W	11577	50981N	52279	7712N	10182N	5509W
24	6643N	2446W	10000	850	17	10	65	2903W	11412	51070N	52330	7724N	9977N	5540W
24	6650N	2343W	9800	905	17	10	65	2704W	11397	51073N	52329	7725N	10149N	5185W
24	6622N	2132W	12000	920	17	10	65	2622W	11806	50621N	51979	7652N	10577N	5244W
24	6612N	2048W	12000	925	17	10	65	2539W	11760	50560N	51909	7654N	10601N	5090W
24	6602N	2006W	12000	930	17	10	65	2506W	11731	50293N	51643	7652N	10622N	4977W
24	6553N	1924W	11900	935	17	10	65	2355W	11844	50544N	51913	7649N	10826N	4802W
24	6544N	1843W	11900	940	17	10	65	2518W	11971	50538N	51936	7640N	10822N	5117W
24	6535N	1801W	11900	945	17	10	65	2507W	11978	50234N	51642	7635N	10845N	5084W
24	6524N	1718W	11900	950	17	10	65	2246W	12242	49851N	51332	7612N	11289N	4737W
24	6512N	1635W	11900	955	17	10	65	2145W	12395	50061N	51573	7606N	11512N	4594W
24	6501N	1553W	11900	1000	17	10	65	2159W	12599	49610N	51184	7545N	11683N	4715W
24	6451N	1512W	11900	1005	17	10	65	2000W	12496	49525N	51077	7550N	11742N	4273W
24	6441N	1432W	11900	1010	17	10	65	2006W	12618	49633N	51211	7544N	11850N	4336W
24	6431N	1351W	11900	1015	17	10	65	2000W	12534	49603N	51162	7549N	11778N	4288W
24	6421N	1309W	11900	1020	17	10	65	1826W	12895	49530N	51182	7524N	12234N	4078W
24	6438N	1303W	11800	1040	17	10	65	1900W	12776	49670N	51287	7535N	12080N	4158W
24	6447N	1335W	11800	1045	17	10	65	1827W	12790	49842N	51457	7536N	12133N	4048W
24	6457N	1409W	11700	1050	17	10	65	2020W	12558	49786N	51346	7551N	11775N	4364W
24	6506N	1446W	11700	1055	17	10	65	1940W	12229	49827N	51306	7613N	11516N	4115W
24	6516N	1522W	11700	1100	17	10	65	2116W	12326	49637N	51145	7603N	11487N	4470W
24	6525N	1559W	11700	1105	17	10	65	2153W	12222	49891N	51366	7614N	11342N	4554W
24	6534N	1635W	11700	1110	17	10	65	2247W	12344	50345N	51837	7613N	11381N	4780W
24	6615N	1924W	11700	1135	17	10	65	2511W	11686	50544N	51877	7659N	10575N	4973W
24	6624N	2005W	11700	1140	17	10	65	2516W	11799	50508N	51868	7651N	10670N	5036W
24	6633N	2046W	11700	1145	17	10	65	2610W	11568	50731N	52033	7709N	10383N	5100W
24	6642N	2128W	11700	1150	17	10	65	2647W	11678	50587N	51917	7700N	10425N	5263W
24	6651N	2210W	11700	1155	17	10	65	2718W	11602	50841N	52148	7709N	10310N	5321W
24	6700N	2256W	11700	1200	17	10	65	2740W	11436	50976N	52243	7721N	10127N	5311W
24	6710N	2342W	11700	1205	17	10	65	2836W	11137	51136N	52329	7743N	9778N	5332W
24	6719N	2429W	11700	1210	17	10	65	2918W	10979	51092N	52258	7752N	9574N	5373W
24	6735N	2339W	11900	1225	17	10	65	2844W	11145	51144N	52344	7742N	9772N	5357W
24	6726N	2259W	11900	1230	17	10	65	2753W	11213	51139N	52354	7738N	9911N	5244W
24	6718N	2219W	11900	1235	17	10	65	2749W	11312	50990N	52229	7730N	10005N	5279W
24	6708N	2134W	11900	1240	17	10	65	2711W	11386	50877N	52135	7723N	10129N	5201W
24	6659N	2046W	11900	1245	17	10	65	2600W	11459	50764N	52042	7717N	10299N	5023W
24	6649N	1959W	11900	1250	17	10	65	2530W	11550	50530N	51833	7707N	10425N	4973W
24	6639N	1913W	11900	1255	17	10	65	2515W	11675	50347N	51683	7657N	10560N	4980W
24	6629N	1827W	11900	1300	17	10	65	2442W	11835	50134N	51512	7643N	10752N	4945W
24	6618N	1742W	11900	1305	17	10	65	2307W	11653	50219N	51553	7656N	10717N	4576W

FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
24	6607N	1657W	11900	1310	17	10	65	2259W	11922	50505N	51893	7643N	10976N	4654W
24	6655N	1612W	11900	1315	17	10	65	2293W	11203	49974N	51443	7617N	11270N	4680W
24	6643N	1627W	11900	1320	17	10	65	2231W	11243	49789N	51272	7611N	11391N	4490W
24	6631N	1444W	11900	1325	17	10	65	2033W	11256	49868N	51352	7612N	11473N	4311W
24	6518N	1400W	11900	1330	17	10	65	1940W	12349	49774N	51283	7604N	11628N	4157W
24	6507N	1316W	11900	1335	17	10	65	2038W	12490	49934N	51472	7557N	11689N	4400W
24	6534N	1319W	11900	1400	17	10	65	2023W	12126	49823N	51277	7619N	11367N	4224W
24	6545N	1354W	11900	1405	17	10	65	2009W	12191	49766N	51237	7614N	11445N	4200W
24	6555N	1430W	11900	1410	17	10	65	2057W	11964	49955N	51368	7632N	11173N	4277W
24	6605N	1509W	11900	1415	17	10	65	2130W	12016	50066N	51488	7630N	11180N	4403W
24	6616N	1549W	11900	1420	17	10	65	2153W	11964	50063N	51473	7634N	11102N	4459W
24	6626N	1630W	11900	1425	17	10	65	2252W	11778	50133N	51498	7647N	10852N	4576W
24	6635N	1711W	11900	1430	17	10	65	2304W	11734	50221N	51573	7651N	10796N	4597W
24	6644N	1752W	11900	1435	17	10	65	2427W	11728	50289N	51638	7652N	10675N	4855W
24	6653N	1835W	11900	1440	17	10	65	2452W	11637	50464N	51788	7701N	10559N	4893W
24	6645N	1618W	12000	1500	17	10	65	2244W	11823	50323N	51694	7647N	10904N	4570W
24	6633N	1535W	12000	1505	17	10	65	2148W	11835	50181N	51558	7644N	10989N	4394W
24	6621N	1452W	12000	1510	17	10	65	2148W	12010	50021N	51443	7630N	11152N	4460W
24	6610N	1407W	12000	1515	17	10	65	2033W	12050	49960N	51392	7626N	11284N	4228W
24	6557N	1320W	12000	1520	17	10	65	2004W	12231	49958N	51433	7615N	11488N	4197W
24	6542N	1231W	12000	1525	17	10	65	1903W	12207	49902N	51373	7615N	11539N	3985W
24	6615N	1250W	12000	1545	17	10	65	2007W	12072	50018N	51454	7626N	11336N	4153W
24	6626N	1328W	12000	1550	17	10	65	2027W	11957	50107N	51514	7635N	11204N	4177W
24	6636N	1406W	12000	1555	17	10	65	2059W	11910	50205N	51599	7639N	11120N	4265W
24	6645N	1446W	12000	1600	17	10	65	2101W	11857	50254N	51634	7643N	11068N	4252W
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24	6552N	1744W	11000	1630	17	10	65	2350W	12167	50093N	51549	7621N	11129N	4918W
25	6301N	2221W	10000	910	22	10	65	2453W	13039	49847N	51524	7520N	11828N	5488W
25	6247N	2228W	10000	915	22	10	65	2512W	13085	49627N	51324	7514N	11840N	5571W
25	6207N	2230W	10000	930	22	10	65	2453W	13338	49497N	51205	7454N	12100N	5611W
25	6152N	2226W	10000	935	22	10	65	2444W	13571	49498N	51325	7440N	12327N	5676W
25	6137N	2222W	10000	940	22	10	65	2422W	13634	49283N	51134	7432N	12420N	5624W
25	6122N	2218W	10000	945	22	10	65	2412W	13679	49146N	51014	7427N	12477N	5606W
25	6107N	2213W	10000	950	22	10	65	2356W	13792	49198N	51095	7420N	12607N	5595W
25	6116N	2338W	10000	1005	22	10	65	2448W	13696	49358N	51223	7429N	12432N	5747W
25	6125N	2419W	10000	1010	22	10	65	2535W	13609	49507N	51344	7438N	12276N	5875W
25	6134N	2500W	10000	1015	22	10	65	2552W	13495	49642N	51444	7448N	12143N	5887W
25	6143N	2541W	10000	1020	22	10	65	2622W	13423	49682N	51464	7453N	12026N	5963W
25	6151N	2623W	10000	1025	22	10	65	2720W	13389	50084N	51843	7502N	11894N	6147W
25	6159N	2705W	10000	1030	22	10	65	2717W	13040	49857N	51534	7521N	11590N	5977W
25	6207N	2747W	10000	1035	22	10	65	2827W	13036	50168N	51834	7526N	11461N	6212W
25	6215N	2830W	10000	1040	22	10	65	2835W	12940	50365N	52001	7535N	11364N	6190W
25	6222N	2913W	10000	1045	22	10	65	2942W	12900	50420N	52045	7539N	11206N	6390W
25	6240N	2839W	10000	1105	22	10	65	2833W	12707	50445N	52020	7552N	11162N	6072W
25	6235N	2806W	10000	1110	22	10	65	2824W	12947	50295N	51935	7534N	11389N	6158W
25	6229N	2733W	10000	1115	22	10	65	2815W	13082	50182N	51859	7523N	11523N	6194W
25	6224N	2700W	10000	1120	22	10	65	2800W	13011	50056N	51719	7526N	11488N	6109W
25	6217N	2627W	10000	1125	22	10	65	2720W	12809	49891N	51509	7536N	11379N	5882W
25	6211N	2554W	10000	1130	22	10	65	2743W	13286	50233N	51960	7511N	11761N	6180W
25	6204N	2522W	10000	1135	22	10	65	2635W	13303	49834N	51579	7505N	11896N	5953W
25	6157N	2450W	10000	1140	22	10	65	2608W	13172	49692N	51409	7509N	11825N	5803W
25	6150N	2418W	10000	1145	22	10	65	2549W	13400	49704N	51479	7455N	12062N	5837W
25	6143N	2347W	10000	1150	22	10	65	2519W	13535	49584N	51398	7444N	12236N	5786W
25	6137N	2316W	10000	1155	22	10	65	2436W	13521	49352N	51171	7441N	12294N	5628W
25	6129N	2245W	10000	1200	22	10	65	2436W	13722	49368N	51240	7428N	12477N	5712W
25	6122N	2214W	10000	1205	22	10	65	2410W	13694	49191N	51061	7427N	12493N	5608W
25	6153N	2249W	10000	1208	22	10	65	2441W	13429	49442N	51233	7448N	12202N	5607W
25	6201N	2328W	10000	1230	22	10	65	2508W	13364	49584N	51354	7455N	12098N	5677W
25	6210N	2408W	10000	1235	22	10	65	2531W	13222	49704N	51433	7506N	11934N	5694W
25	6218N	2448W	10000	1240	22	10	65	2623W	13188	49766N	51483	7509N	11815N	5859W
25	6226N	2530W	10000	1245	22	10	65	2703W	13052	50080N	51753	7524N	11625N	5935W
25	6233N	2613W	10000	1250	22	10	65	2705W	12943	49892N	51543	7527N	11523N	5894W
25	6240N	2656W	10000	1255	22	10	65	2800W	13017	50152N	51814	7527N	11494N	6111W
25	6247N	2739W	10000	1300	22	10	65	2832W	12891	50338N	51963	7538N	11326N	6157W
25	6255N	2824W	10000	1305	22	10	65	2831W	12867	50489N	52053	7555N	11130N	6047W
25	6311N	2953W	10000	1320	22	10	65	2915W	12615	50493N	52045	7558N	11006N	6164W
25	6306N	2722W	10000	1330	22	10	65	2837W	12625	50434N	51990	7557N	11082N	6048W
25	6300N	2651W	10000	1335	22	10	65	2825W	12895	50354N	51979	7538N	11340N	6138W
25	6254N	2620W	10000	1340	22	10	65	2743W	12910	50134N	51770	7534N	11428N	6005W
25	6248N	2548W	10000	1345	22	10	65	2712W	12922	49986N	51629	7530N	11494N	5906W
25	6242N	2516W	10000	1350	22	10	65	2652W	12966	50303N	51948	7533N	11567N	5858W
25	6236N	2444W	10000	1355	22	10	65	2645W	13130	49777N	51479	7513N	11725N	5910W
25	6229N	2413W	10000	1400	22	10	65	2607W	13171	49735N	51449	7510N	11826N	5799W
25	6223N	2340W	10000	1405	22	10	65	2554W	13091	49797N	51489	7516N	11776N	5717W
25	6216N	2308W	10000	1410	22	10	65	2517W	13368	49609N	51379	7455N	12087N	5709W
25	6209N	2235W	10000	1415	22	10	65	2452W	13479	49611N	51410	7448N	12230N	5667W
25	6202N	2203W	10000	1420	22	10	65	2422W	13359	49461N	51233	7453N	12168N	5512W
25	6154N	2131W	10000	1425	22	10	65	2432W	13478	49341N	51149	7443N	12261N	5597W

FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
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25	6302N	2414W	10000	1505	22	10	65	2617W	12818	50162N	51774	7540N	11493N	5676W
25	6310N	2458W	10000	1510	22	10	65	2640W	12837	50209N	51824	7540N	11471N	5763W
25	6317N	2544W	10000	1515	22	10	65	2717W	12726	50320N	51905	7548N	11310N	5834W
25	6325N	2632W	10000	1520	22	10	65	2816W	12713	50474N	52050	7552N	11196N	6021W
25	6335N	2724W	10000	1525	22	10	65	2833W	12454	50642N	52151	7611N	10940N	5953W
25	6354N	2654W	10000	1545	22	10	65	2827W	12480	50666N	52180	7610N	10973N	5946W
25	6347N	2617W	10000	1550	22	10	65	2803W	12586	50538N	52081	7601N	11107N	5918W
25	6340N	2541W	10000	1555	22	10	65	2839W	12718	50389N	51970	7550N	11161N	6097W
25	6333N	2508W	10000	1600	22	10	65	2730W	12787	50212N	51815	7543N	11341N	5906W
25	6326N	2436W	10000	1605	22	10	65	2653W	12846	50052N	51674	7536N	11458N	5809W
25	6319N	2404W	10000	1610	22	10	65	2613W	12739	50167N	51759	7545N	11429N	5626W
25	6312N	2332W	10000	1615	22	10	65	2642W	12895	49925N	51563	7531N	11521N	5792W
25	6305N	2301W	10000	1620	22	10	65	2529W	12937	49847N	51498	7527N	11678N	5566W
25	6258N	2230W	10000	1625	22	10	65	2453W	13087	49850N	51539	7517N	11873N	5506W
25	6251N	2200W	10000	1630	22	10	65	2428W	13173	49734N	51449	7510N	11990N	5457W
25	6243N	2129W	10000	1635	22	10	65	2429W	13315	49654N	51409	7459N	12118N	5517W
25	6236N	2058W	10000	1640	22	10	65	2352W	13328	49588N	51348	7457N	12188N	5393W
25	6227N	2028W	10000	1645	22	10	65	2350W	13421	49470N	51258	7449N	12276N	5425W
25	6255N	2049W	10000	1705	22	10	65	2406W	13278	49753N	51494	7503N	12121N	5421W
25	6306N	2130W	10000	1710	22	10	65	2448W	13129	49906N	51604	7516N	11919N	5507W
25	6317N	2212W	10000	1715	22	10	65	2507W	12919	49899N	51544	7529N	11698N	5483W
25	6327N	2256W	10000	1720	22	10	65	2614W	13046	50072N	51744	7524N	11703N	5766W
25	6336N	2341W	10000	1725	22	10	65	2640W	12798	50136N	51744	7541N	11436N	5744W
26	6350N	2505W	10000	930	24	10	65	2751W	12608	50267N	51824	7555N	11148N	5889W
26	6357N	2547W	10000	935	24	10	65	2836W	12539	50471N	52005	7603N	11009N	6001W
26	6405N	2630W	9900	940	24	10	65	2825W	12374	50706N	52194	7617N	10884N	5888W
26	6420N	2603W	9900	1000	24	10	65	2831W	12403	50704N	52199	7615N	10899N	5920W
26	6412N	2522W	9900	1005	24	10	65	2744W	12501	50495N	52019	7606N	11065N	5819W
26	6404N	2443W	9900	1010	24	10	65	2715W	12581	50268N	51818	7557N	11184N	5762W
26	6356N	2404W	9900	1015	24	10	65	2714W	12588	50173N	51729	7555N	11193N	5761W
26	6348N	2325W	9900	1020	24	10	65	2606W	12600	50005N	51568	7551N	11316N	5542W
26	6339N	2248W	10000	1025	24	10	65	2606W	12781	49981N	51589	7539N	11478N	5622W
26	6332N	2212W	10000	1030	24	10	65	2448W	12816	49786N	51409	7534N	11633N	5377W
26	6324N	2136W	10000	1035	24	10	65	2443W	12858	49776N	51410	7531N	11680N	5376W
26	6316N	2105W	10000	1040	24	10	65	2355W	12819	49755N	51379	7533N	11718N	5197W
26	6308N	2025W	10000	1045	24	10	65	2333W	13084	49789N	51479	7517N	11994N	5228W
26	6300N	1950W	10000	1050	24	10	65	2323W	13219	49545N	51279	7504N	12134N	5246W
26	6252N	1915W	10000	1055	24	10	65	2320W	13262	49441N	51189	7459N	12252N	5075W
26	6313N	1905W	9900	1115	24	10	65	2320W	13112	49637N	51339	7512N	12039N	5194W
26	6322N	1948W	9900	1120	24	10	65	2308W	13091	49854N	51544	7517N	12038N	5144W
26	6332N	2030W	9900	1125	24	10	65	2328W	12744	49747N	51353	7538N	11689N	5076W
26	6342N	2110W	9900	1130	24	10	65	2355W	12784	49819N	51433	7536N	11686N	5182W
26	6352N	2151W	9900	1135	24	10	65	2427W	12905	50195N	51828	7535N	11747N	5342W
26	6400N	2230W	9900	1140	24	10	65	2558W	12224	49857N	51334	7613N	10990N	5352W
26	6408N	2311W	9900	1145	24	10	65	2601W	12660	50181N	51754	7550N	11377N	5552W
26	6415N	2353W	9900	1150	24	10	65	2631W	12513	50224N	51759	7601N	11196N	5588W
26	6423N	2435W	9900	1155	24	10	65	2657W	12469	50394N	51914	7606N	11115N	5652W
26	6430N	2516W	9900	1200	24	10	65	2740W	12370	50597N	52087	7616N	10956N	5743W
26	6438N	2556W	9900	1205	24	10	65	2850W	12307	50723N	52195	7622N	10781N	5936W
26	6450N	2451W	10500	1225	24	10	65	2840W	12109	50548N	51978	7632N	10625N	5807W
26	6442N	2412W	10500	1230	24	10	65	2804W	12301	50565N	52040	7620N	10855N	5786W
26	6434N	2334W	10500	1235	24	10	65	2658W	12321	50472N	51954	7617N	10981N	5588W
26	6426N	2256W	10000	1240	24	10	65	2713W	12413	50372N	51879	7609N	11040N	5676W
26	6418N	2218W	9900	1245	24	10	65	2530W	12777	50095N	51699	7542N	11532N	5501W
26	6410N	2142W	9900	1250	24	10	65	2440W	12497	49665N	51213	7553N	11358N	5214W
26	6355N	2032W	9900	1300	24	10	65	2414W	12745	49979N	51579	7542N	11622N	5230W
26	6347N	1958W	9900	1305	24	10	65	2309W	12657	49939N	51518	7547N	11637N	4976W
26	6333N	1854W	9900	1315	24	10	65	2353W	12845	49860N	51488	7533N	11745N	5201W
26	6326N	1825W	9900	1320	24	10	65	2319W	13061	49701N	51388	7517N	11994N	5171W
26	6318N	1756W	9900	1325	24	10	65	2233W	13239	49418N	51161	7500N	12227N	5076W
26	6310N	1726W	9900	1330	24	10	65	2140W	13382	49366N	51148	7450N	12436N	4941W
26	6326N	1659W	9900	1350	24	10	65	2210W	13068	49370N	51071	7510N	12102N	4931W
26	6336N	1739W	9900	1355	24	10	65	2245W	12974	49657N	51324	7521N	11965N	5017W
26	6346N	1820W	9900	1400	24	10	65	2238W	12918	49651N	51304	7525N	11923N	4971W
26	6356N	1901W	9900	1405	24	10	65	2147W	13098	49914N	51604	7518N	12163N	4860W
26	6406N	1943W	9900	1410	24	10	65	2355W	12617	49503N	51085	7542N	11533N	5117W
26	6415N	2023W	9900	1415	24	10	65	2438W	12760	50239N	51834	7545N	11598N	5318W
26	6424N	2104W	9900	1420	24	10	65	2420W	12374	50087N	51593	7607N	11274N	5100W
26	6433N	2145W	9900	1425	24	10	65	2509W	12356	50288N	51783	7612N	11185N	5250W
26	6442N	2227W	9900	1430	24	10	65	2550W	12263	50352N	51823	7619N	11038N	5343W
26	6450N	2308W	9900	1435	24	10	65	2640W	12382	50365N	51864	7611N	11064N	5558W
26	6458N	2346W	9900	1440	24	10	65	2708W	12202	50570N	52021	7626N	10858N	5566W
26	6506N	2423W	9900	1445	24	10	65	2758W	12016	50642N	52048	7639N	10612N	5635W
26	6515N	2500W	9900	1450	24	10	65	2829W	12186	50690N	52134	7629N	10712N	5810W
26	6532N	2433W	9900	1510	24	10	65	2907W	12093	50830N	52249	7637N	10564N	5885W
26	6523N	2353W	9900	1515	24	10	65	2717W	12122	50781N	52208	7634N	10774N	5555W
26	6514N	2313W	9900	1520	24	10	65	2709W	12174	50583N	52027	7628N	10833N	5555W
26	6505N	2234W	9900	1525	24	10	65	2630W	12186	50253N	51709	7622N	10906N	5437W

FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
26	6457N	2156W	9900	1530	24	10	65	2610W	12296	50236N	51718	7615N	11035N	5423W
26	6449N	2118W	9900	1535	24	10	65	2544W	12396	50159N	51668	7607N	11167N	5383W
26	6441N	2042W	9900	1540	24	10	65	2514W	12279	50073N	51557	7613N	11108N	5233W
26	6432N	2006W	9900	1545	24	10	65	2515W	12493	50345N	51872	7604N	11300N	5329W
26	6425N	1932W	9900	1550	24	10	65	2437W	12766	49984N	51589	7540N	11606N	5317W
26	6417N	1900W	9900	1555	24	10	65	2251W	12318	49790N	51291	7606N	11352N	4783W
26	6409N	1828W	9900	1600	24	10	65	2343W	12820	50342N	51948	7643N	11737N	5156W
26	6401N	1755W	9900	1605	24	10	65	2359W	12994	49842N	51508	7523N	11873N	5280W
26	6353N	1722W	9900	1610	24	10	65	2156W	12768	49684N	51298	7535N	11844N	4768W
26	6344N	1650W	9900	1615	24	10	65	2200W	12994	49594N	51268	7519N	12048N	4868W
26	6336N	1618W	9900	1620	24	10	65	2129W	13082	49497N	51196	7512N	12174N	4789W
26	6327N	1547W	9900	1625	24	10	65	2030W	13313	49362N	51126	7454N	12470N	4662W
26	6347N	1526W	9900	1645	24	10	65	2117W	13012	49420N	51105	7515N	12125N	4723W
26	6357N	1605W	9900	1650	24	10	65	2133W	12812	49636N	51262	7532N	11917N	4705W
26	6407N	1645W	9900	1655	24	10	65	2226W	12534	49201N	50773	7542N	11586N	4783W
26	6417N	1725W	9900	1700	24	10	65	2304W	13001	49631N	51305	7519N	11962N	5094W
26	6426N	1805W	9900	1705	24	10	65	2335W	12325	50104N	51598	7611N	11296N	4931W
26	6435N	1842W	9900	1710	24	10	65	2347W	12556	50119N	51668	7556N	11490N	5064W
26	6444N	1920W	9900	1715	24	10	65	2401W	12495	50223N	51754	7602N	11414N	5086W
26	6453N	1958W	9900	1720	24	10	65	2352W	12323	50251N	51739	7613N	11270N	4985W
26	6501N	2036W	9900	1725	24	10	65	2440W	12475	50238N	51763	7603N	11337N	5206W
26	6510N	2121W	9900	1730	24	10	65	2521W	12274	50298N	51774	7617N	11092N	5255W
26	6520N	2206W	9900	1735	24	10	65	2713W	12119	50634N	52064	7632N	10777N	5542W
26	6529N	2252W	9900	1740	24	10	65	2654W	12040	50673N	52084	7638N	10737N	5447W
26	6537N	2333W	9900	1745	24	10	65	2725W	12184	50855N	52295	7632N	10816N	5609W
26	6545N	2413W	9900	1750	24	10	65	2743W	11841	50874N	52234	7654N	10482N	5508W
26	6554N	2453W	9900	1755	24	10	65	2811W	11775	50787N	52135	7657N	10380N	5560W
27	6431N	2313W	9000	1445	25	10	65	2611W	12164	50579N	52021	7629N	10917N	5366W
27	6444N	2325W	11000	1450	25	10	65	2735W	12079	50563N	51985	7634N	10706N	5593W
27	6501N	2340W	12000	1455	25	10	65	2710W	11908	50662N	52043	7646N	10595N	5436W
27	6517N	2355W	12000	1500	25	10	65	2608W	11696	50661N	51993	7700N	10500N	5512W
27	6550N	2432W	12000	1510	25	10	65	2831W	11574	50923N	52222	7712N	10170N	5525W
27	6605N	2408W	12000	1525	25	10	65	2754W	11878	50825N	52195	7651N	10497N	5558W
27	6557N	2329W	12000	1530	25	10	65	2802W	11721	50954N	52285	7703N	10346N	5507W
27	6540N	2209W	14000	1540	25	10	65	2648W	11958	50646N	52039	7643N	10673N	5393W
27	6532N	2129W	14000	1545	25	10	65	2605W	12372	50527N	52020	7614N	11112N	5440W
27	6523N	2047W	14000	1550	25	10	65	2533W	12302	50399N	51878	7617N	11099N	5307W
27	6515N	2006W	14000	1555	25	10	65	2518W	12177	50491N	51938	7626N	11009N	5203W
27	6506N	1926W	14000	1600	25	10	65	2333W	12582	50247N	51799	7557N	11534N	5226W
27	6457N	1846W	14000	1605	25	10	65	2428W	12629	49863N	51437	7547N	11495N	5230W
27	6449N	1806W	14000	1610	25	10	65	2346W	12763	49681N	51294	7536N	11680N	5144W
27	6441N	1732W	14000	1615	25	10	65	2342W	12460	49970N	51500	7600N	11410N	5007W
27	6433N	1659W	14000	1620	25	10	65	2151W	12823	50278N	51888	7642N	11902N	4773W
27	6424N	1626W	14000	1625	25	10	65	2314W	12978	49697N	51364	7522N	11926N	5119W
27	6416N	1553W	14000	1630	25	10	65	2102W	12663	49610N	51201	7541N	11818N	4547W
27	6407N	1520W	14000	1635	25	10	65	2113W	12839	49612N	51246	7529N	11970N	4645W
27	6358N	1448W	14000	1640	25	10	65	2042W	13210	49453N	51187	7503N	12357N	4670W
27	6348N	1416W	14000	1645	25	10	65	2023W	13273	49529N	51277	7500N	12442N	4622W
27	6417N	1423W	14000	1705	25	10	65	2041W	12862	49715N	51352	7530N	12034N	4542W
27	6428N	1503W	14000	1710	25	10	65	2107W	12572	49799N	51362	7550N	11727N	4531W
27	6437N	1542W	14000	1715	25	10	65	2050W	12581	49601N	51172	7546N	11758N	4475W
27	6504N	1740W	14000	1730	25	10	65	2050W	12535	50006N	51553	7556N	11758N	4475W
27	6514N	1822W	14000	1735	25	10	65	2068W	12608	50081N	51644	7552N	11644N	4552W
27	6525N	1905W	14000	1740	25	10	65	2038W	12380	50333N	51834	7611N	11167N	5383W
27	6534N	1947W	14000	1745	25	10	65	2027W	12027	50471N	51884	7636N	11108N	5233W
27	6545N	2028W	14000	1750	25	10	65	1924W	11924	50372N	51764	7641N	11300N	5329W
27	6554N	2110W	14000	1755	25	10	65	1903W	12037	50427N	51843	7635N	11606N	5317W
27	6604N	2152W	14000	1800	25	10	65	1809W	12019	50708N	52113	7640N	11352N	4783W
27	6613N	2235W	14000	1805	25	10	65	1786W	11786	50747N	52098	7655N	11737N	5156W
27	6622N	2319W	14000	1810	25	10	65	1787W	11787	50919N	52265	7658N	11606N	5317W
27	6630N	2404W	14000	1815	25	10	65	1589W	11589	50964N	52265	7711N	11035N	5423W
27	6717N	2457W	14000	1830	25	10	65	1172W	11172	51124N	52330	7740N	11167N	5383W
27	6736N	2454W	14000	1835	25	10	65	1089W	11089	51168N	52356	7746N	11108N	5233W
27	6755N	2452W	14000	1840	25	10	65	1021W	11021	51224N	52396	7751N	11300N	5329W
27	6814N	2449W	14000	1845	25	10	65	0922W	10922	51322N	52472	7759N	11606N	5317W
27	6834N	2444W	14000	1850	25	10	65	0716W	10716	51397N	52502	7813N	11352N	4783W
27	6853N	2438W	13900	1855	25	10	65	0648W	10648	51359N	52451	7817N	11737N	5156W
27	6913N	2433W	13900	1900	25	10	65	0563W	10563	51475N	52548	7824N	12048N	4868W
27	6920N	2237W	15000	1915	25	10	65	0805W	10805	51385N	52508	7808N	12470N	4662W
27	6918N	2150W	15000	1920	25	10	65	0551W	10551	51330N	52403	7823N	12125N	4723W
27	6915N	2104W	15000	1925	25	10	65	0660W	10660	51261N	52358	7815N	11917N	4705W
27	6912N	2017W	15000	1930	25	10	65	0753W	10753	51221N	52338	7809N	11586N	4783W
27	6909N	1928W	15000	1935	25	10	65	0785W	10785	51204N	52328	7806N	11962N	5094W
27	6906N	1838W	15000	1940	25	10	65	0916W	10916	50971N	52127	7755N	11296N	4931W
27	6902N	1749W	15000	1945	25	10	65	0795W	10828	50795N	51937	7758N	11490N	5064W
27	6859N	1701W	14900	1950	25	10	65	0774W	10774	50876N	52004	7803N	11414N	5086W
27	6855N	1614W	14900	1955	25	10	65	1125W	11259	50756N	51990	7730N	11270N	4985W
27	6851N	1528W	14900	2000	25	10	65	11051W	11051	50686N	51876	7742N	11337N	5156W
27	6846N	1440W	14900	2005	25	10	65	11107W	11107	50725N	51926	7739N	12048N	4868W

FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
27	6842N	1350W	14900	2010	25	10	65		11230	506C4N	51836	7729N		
27	6837N	1300W	14900	2015	25	10	65		11286	50592N	51836	7725N		
27	6833N	1224W	14900	2020	25	10	65	2136W	11426	50438N	51716	7714N	10623N	4207W
27	6829N	1146W	14900	2025	25	10	65	2039W	11326	50384N	51640	7720N	10595N	3694W
27	6823N	1048W	14900	2030	25	10	65	1954W	11357	50413N	51676	7718N	10679N	3864W
27	6817N	951W	14900	2035	25	10	65	1902W	11479	50395N	51686	7710N	10851N	3745W
27	6811N	854W	14900	2040	25	10	65	1824W	11582	50176N	51496	7700N	10990N	3656W
27	6806N	803W	14900	2045	25	10	65	1734W	11468	50151N	51446	7707N	10933N	3460W
27	6801N	712W	14900	2050	25	10	65	1701W	11564	50170N	51486	7701N	11057N	3386W
27	6755N	622W	14900	2055	25	10	65	1618W	11610	50056N	51385	7656N	11143N	3260W
27	6749N	532W	14900	2100	25	10	65	1541W	11681	49989N	51336	7651N	11246N	3159W
27	6737N	353W	14900	2110	25	10	65	1456W	11653	49949N	51290	7652N	11259N	3005W
27	6728N	304W	14900	2115	25	10	65	1402W	11860	49829N	51221	7637N	11506N	2875W
27	6719N	215W	14900	2120	25	10	65	1312W	11828	49811N	51196	7639N	11515N	2701W
27	6710N	127W	14900	2125	25	10	65	1230W	11885	49735N	51135	7634N	11603N	2573W
27	6700N	40W	15000	2130	25	10	65	1135W	12017	49770N	51201	7626N	11773N	2412W
27	6651N	10E	15000	2135	25	10	65	1125W	12046	49748N	51186	7623N	11808N	2385W
27	6643N	100E	15000	2140	25	10	65	959W	12227	49652N	51135	7610N	12041N	2120W
27	6632N	146E	15000	2145	25	10	65	1001W	12403	49583N	51111	7557N	12214N	2157W
27	6622N	231E	15000	2150	25	10	65	929W	12386	49427N	50955	7556N	12217N	2039W
27	6617N	313E	15000	2155	25	10	65	841W	12396	49394N	50925	7555N	12254N	1870W
27	6612N	355E	15000	2200	25	10	65	836W	12439	49361N	50905	7551N	12299N	1860W
27	6600N	441E	15000	2205	25	10	65	853W	12395	49342N	50875	7554N	12247N	1913W
27	6548N	525E	15000	2210	25	10	65	722W	12664	49190N	50794	7534N	12559N	1623W
27	6536N	610E	15000	2215	25	10	65	644W	12663	49128N	50734	7533N	12575N	1484W
27	6524N	653E	15000	2220	25	10	65	612W	12638	49062N	50664	7533N	12565N	1365W
27	6511N	736E	14900	2225	25	10	65	542W	12789	49053N	50693	7523N	12725N	1270W
27	6458N	818E	14800	2230	25	10	65	512W	12907	48970N	50643	7514N	12853N	1171W
27	6443N	856E	14800	2235	25	10	65	435W	13061	49053N	50762	7505N	13019N	1044W
27	6429N	933E	14800	2240	25	10	65	417W	13242	48870N	50632	7450N	13205N	988W
27	6414N	1009E	14800	2245	25	10	65	328W	13228	48863N	50622	7451N	13204N	801W
28	6623N	950E	15000	1620	30	10	65	427W	12396	49549N	51076	7557N	12359N	962W
28	6634N	909E	15000	1625	30	10	65	502W	12314	49624N	51129	7604N	12266N	1080W
28	6644N	828E	14900	1630	30	10	65	520W	12231	49612N	51098	7609N	12179N	1136W
28	6655N	745E	14900	1635	30	10	65	545W	12196	49667N	51143	7612N	12135N	1222W
28	6705N	701E	14900	1640	30	10	65	629W	12082	49710N	51158	7620N	12005N	1364W
28	6715N	617E	14900	1645	30	10	65	709W	12024	49756N	51188	7625N	11931N	1496W
28	6725N	532E	14900	1650	30	10	65	742W	11941	49807N	51218	7631N	11833N	1600W
28	6736N	445E	14900	1655	30	10	65	806W	11991	49769N	51193	7627N	11871N	1690W
28	6746N	357E	14900	1700	30	10	65	902W	11929	49882N	51288	7633N	11781N	1874W
28	6756N	309E	14900	1705	30	10	65	920W	11875	50049N	51439	7639N	11718N	1924W
28	6806N	220E	14900	1710	30	10	65	932W	11651	50132N	51468	7655N	11490N	1931W
28	6816N	131E	14900	1715	30	10	65	951W	11759	49861N	51229	7644N	11586N	2011W
28	6827N	42E	14900	1720	30	10	65	1129W	11636	50177N	51509	7657N	11403N	2317W
28	6836N	9W	14900	1725	30	10	65	1201W	11497	50333N	51629	7708N	11245N	2393W
28	6846N	10W	14900	1730	30	10	65	1219W	11403	50334N	51609	7714N	11140N	2432W
28	6915N	336W	16000	1745	30	10	65	1430W	11166	50498N	51718	7732N	10810N	2797W
28	6924N	429W	16000	1750	30	10	65	1529W	11045	50468N	51662	7739N	10644N	2949W
28	6932N	522W	16000	1755	30	10	65	1636W	10984	50528N	51708	7744N	10526N	3138W
28	6941N	617W	16000	1800	30	10	65	1713W	10912	50599N	51762	7750N	10424N	3229W
28	6949N	711W	16000	1805	30	10	65	1730W	10894	50680N	51838	7752N	10390N	3277W
28	6957N	807W	16000	1810	30	10	65	1814W	10849	50730N	51878	7756N	10304N	3395W
28	7004N	904W	16000	1815	30	10	65	1930W	10686	50786N	51898	7807N	10073N	3567W
28	7011N	1002W	16000	1820	30	10	65	2020W	10577	50860N	51948	7815N	9918N	3675W
28	7018N	1101W	16000	1825	30	10	65	2125W	10507	51065N	52135	7822N	9782N	3836W
28	7024N	1200W	16000	1830	30	10	65	2135W	10507	51130N	52199	7823N	9771N	3864W
28	7030N	1300W	15800	1835	30	10	65	2244W	10372	51136N	52177	7832N	9566N	4008W
28	7036N	1400W	15700	1840	30	10	65	2350W	10460	51178N	52236	7827N	9568N	4226W
28	7044N	1606W	15700	1850	30	10	65	2505W	10152	51302N	52296	7848N	9194N	4305W
28	7048N	1710W	15700	1855	30	10	65	2640W	10205	51369N	52373	7846N	9120N	4581W
28	7051N	1814W	15700	1900	30	10	65	2725W	10133	51581N	52567	7853N	8995N	4667W
28	7054N	1918W	15700	1905	30	10	65	2816W	9867	51602N	52537	7911N	8690N	4673W
28	7056N	2023W	15800	1910	30	10	65	2903W	9866	51613N	52547	7911N	8625N	4790W
28	7100N	2128W	15800	1915	30	10	65	3035W	9818	51673N	52597	7915N	8452N	4995W
28	7103N	2234W	15800	1920	30	10	65	3030W	9583	51844N	52723	7932N	8257N	4863W
28	7105N	2340W	15800	1925	30	10	65	3234W	9665	51911N	52803	7927N	8146N	5202W
28	7108N	2446W	15900	1930	30	10	65	3316W	9622	51985N	52869	7931N	8045N	5278W
28	7110N	2552W	16000	1935	30	10	65	3406W	9688	52055N	52949	7927N	8022N	5431W
28	7111N	2659W	16100	1940	30	10	65	3409W	9487	52185N	53041	7942N	7851N	5327W
28	7111N	2915W	16100	1950	30	10	65	3636W	9466	52311N	53160	7945N	7601N	5643W
28	7111N	3022W	16000	1955	30	10	65	3745W	9367	52430N	53260	7952N	7406N	5735W
28	7110N	3130W	15900	2000	30	10	65	3822W	9224	52597N	53400	8003N	7233N	5725W
28	7107N	3233W	15900	2005	30	10	65	3917W	9223	52727N	53529	8004N	7147N	5845W
28	7104N	3335W	15900	2010	30	10	65	4014W	9069	52842N	53615	8016N	6924N	5857W
28	7100N	3437W	15900	2015	30	10	65	4051W	9201	53008N	53800	8009N	6960N	6018W
28	7057N	3538W	16000	2020	30	10	65	4146W	9010	53209N	53966	8023N	6721N	6001W
28	7053N	3640W	16200	2025	30	10	65	4159W	8891	53113N	53852	8030N	6608N	5948W
28	7051N	3741W	16200	2030	30	10	65	4317W	9024	53223N	53983	8023N	6570N	6187W
28	7048N	3843W	16200	2035	30	10	65	4240W	9102	53383N	54153	8019N	6693N	6168W

FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
N28	7045N	3944W	16200	2040	30	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N28	7041N	4045W	16200	2044	30	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N28	7038N	4145W	16200	2053	30	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N28	7034N	4245W	16200	2059	30	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N28	7030N	4345W	16200	2100	30	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N28	7025N	4444W	16200	2105	30	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N28	7019N	4542W	16100	2110	30	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N28	7013N	4640W	16000	2115	30	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N28	7007N	4737W	15900	2120	30	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N28	7001N	4830W	15900	2125	30	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N28	6954N	4922W	15900	2130	30	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N28	6947N	5013W	15900	2135	30	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N28	6940N	5104W	15900	2140	30	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N28	6933N	5155W	15900	2145	30	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N28	6924N	5243W	15900	2150	30	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N28	6841N	5241W	15900	2205	30	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N28	6824N	5220W	15900	2210	30	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N28	6807N	5201W	15900	2215	30	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N28	6750N	5141W	15900	2220	30	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	6816N	5315W	15000	100	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	6837N	5322W	15000	105	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	6857N	5328W	15000	110	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	6915N	5321W	15000	115	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	6934N	5313W	15000	120	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	6952N	5306W	15000	125	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7011N	5300W	15000	130	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7033N	5302W	15000	135	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7054N	5303W	15000	140	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7132N	5108W	15000	155	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7140N	5009W	15000	200	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7147N	4909W	15000	205	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7154N	4809W	15000	210	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7200N	4708W	15100	215	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7206N	4605W	15100	220	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7212N	4502W	15100	225	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7218N	4359W	15100	230	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7223N	4255W	15100	235	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7228N	4150W	15100	240	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7231N	4041W	15100	245	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7234N	3934W	15100	250	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7236N	3830W	15100	255	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7238N	3725W	15100	300	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7239N	3620W	15100	305	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7240N	3515W	15100	310	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7241N	3407W	15100	315	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7242N	3259W	15100	320	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7244N	3152W	15100	325	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7245N	3046W	15100	330	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7246N	2939W	15100	335	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7246N	2832W	15200	340	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7246N	2727W	15200	345	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7245N	2623W	15200	350	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7245N	2518W	15200	355	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7243N	2414W	15200	400	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7242N	2310W	15200	405	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7240N	2206W	15200	410	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7238N	2104W	15200	415	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7235N	2002W	15200	420	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7232N	1900W	15200	425	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7229N	1759W	15200	430	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7226N	1658W	15200	435	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7222N	1558W	15200	440	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7218N	1500W	15200	445	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7213N	1403W	15200	450	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7209N	1306W	15200	455	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7204N	1210W	15200	500	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7153N	1019W	15200	510	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7147N	923W	15200	515	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7140N	826W	15200	520	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7134N	730W	15200	525	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7127N	634W	15200	530	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7120N	539W	15200	535	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7112N	445W	15200	540	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7105N	350W	15200	545	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7058N	256W	15200	550	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7050N	202W	15200	555	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7042N	109W	15200	600	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7034N	16W	15200	605	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W
N29	7025N	36E	15200	610	31	10	65	4327W	8946	53379N	54123	8029N	6495N	6152W

FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
29	7016N	129E	15200	615	31	10	65	1137W	10906	50555N	51718	7750N	10683N	2196W
29	7007N	1222E	15200	620	31	10	65	1026W	10883	50633N	51789	7752N	10705N	1971W
29	6957N	314E	15200	625	31	10	65	1015W	11059	50605N	51799	7740N	10881N	1969W
29	6947N	405E	15200	630	31	10	65	930W	11058	50512N	51709	7739N	10907N	1826W
29	6937N	456E	15200	635	31	10	65	849W	11210	50387N	51619	7727N	11077N	1718W
29	6927N	545E	15200	640	31	10	65	840W	11102	50472N	51679	7736N	10975N	1673W
29	6916N	633E	15200	645	31	10	65	751W	11322	50331N	51589	7719N	11216N	1547W
29	6904N	721E	15200	650	31	10	65	645W	11328	50319N	51578	7719N	11250N	1331W
29	6852N	807E	15200	655	31	10	65	604W	11486	50355N	51648	7709N	11422N	1213W
29	6840N	853E	15200	700	31	10	65	600W	11643	50242N	51573	7657N	11579N	1218W
29	6827N	941E	15200	705	31	10	65	510W	11748	50068N	51428	7648N	11700N	1059W
29	6815N	1029E	15200	710	31	10	65	307W	11841	50056N	51438	7641N	11824N	644W
29	6802N	1115E	15200	715	31	10	65	351W	11849	50178N	51558	7643N	11823N	794W
29	6749N	1201E	15200	720	31	10	65	329W	11954	50050N	51458	7634N	11932N	727W
29	6737N	1245E	15200	725	31	10	65	257W	12013	49984N	51407	7629N	11997N	619W
30	6817N	1800E	15400	1720	1	11	65	188E	11633	50385N	51711	7700N	11628N	333E
30	6822N	1855E	15400	1725	1	11	65	114E	11634	50745N	52062	7705N	11631N	251E
30	6845N	2135E	15400	1740	1	11	65	254E	11317	50765N	52011	7726N	11303N	573E
30	6853N	2225E	15400	1745	1	11	65	345E	11407	50931N	52192	7723N	11382N	746E
30	6901N	2315E	15400	1750	1	11	65	354E	11217	51178N	52393	7738N	11191N	763E
30	6909N	2406E	15400	1755	1	11	65	409E	11319	51124N	52362	7731N	11290N	820E
30	6916N	2458E	15400	1800	1	11	65	502E	11233	51154N	52373	7737N	11190N	985E
30	6923N	2550E	15200	1805	1	11	65	554E	11183	51265N	52471	7742N	11126N	1149E
30	6930N	2643E	15000	1810	1	11	65	622E	11200	51374N	52580	7742N	11131N	1241E
30	6937N	2727E	15000	1815	1	11	65	713E	11128	51451N	52641	7748N	11040N	1398E
30	7055N	2846E	16000	1845	1	11	65	828E	10615	51902N	52976	7826N	10499N	1562E
30	7116N	2822E	16000	1850	1	11	65	721E	10606	51960N	53031	7828N	10518N	1358E
30	7137N	2757E	16000	1855	1	11	65	813E	10539	52056N	53112	7833N	10430N	1507E
30	7158N	2731E	16000	1900	1	11	65	711E	10259	52148N	53147	7852N	10178N	1282E
30	7219N	2704E	16000	1905	1	11	65	736E	10277	52211N	53213	7852N	10187N	1358E
30	7319N	2529E	16000	1920	1	11	65	521E	9609	52244N	53388	7937N	9568N	897E
30	7338N	2451E	16000	1925	1	11	65	461E	9462	52486N	53332	7947N	9439N	663E
30	7357N	2411E	16000	1930	1	11	65	533E	9482	52584N	53432	7947N	9438N	917E
30	7416N	2329E	16000	1935	1	11	65	515E	9386	52591N	53422	7953N	9347N	858E
30	7434N	2246E	16000	1940	1	11	65	455E	9256	52609N	53417	8001N	9222N	792E
30	7532N	2040E	16000	1955	1	11	65	234E	8797	52704N	53433	8031N	8788N	394E
30	7551N	1957E	16000	2000	1	11	65	303E	8803	52738N	53467	8031N	8790N	469E
30	7610N	1913E	16000	2005	1	11	65	154E	8621	52854N	53553	8044N	8617N	285E
30	7629N	1826E	16000	2010	1	11	65	155E	8536	52924N	53608	8050N	8531N	284E
30	7647N	1739E	16000	2015	1	11	65	135E	8410	52949N	53613	8059N	8407N	233E
30	7705N	1650E	16000	2020	1	11	65	238E	8290	52989N	53634	8107N	8281N	381E
30	7722N	1558E	16000	2025	1	11	65	131W	8409	53037N	53699	8059N	8406N	322W
30	8037N	30W	16000	2130	1	11	65	152W	6837	53383N	54264	8246N	6591N	1820W
30	8049N	213W	16000	2135	1	11	65	127W	6808	53383N	54264	8248N	6494N	2031W
30	8100N	40W	16000	2140	1	11	65	191W	6688	53385N	54299	8255N	6317N	2197W
30	8111N	554W	16000	2145	1	11	65	220W	6462	53398N	54383	8311N	5990N	2426W
30	8120N	744W	15900	2150	1	11	65	241W	6316	53397N	54342	8320N	5761N	2589W
30	8128N	935W	15900	2155	1	11	65	242W	6484	53394N	54332	8309N	5899N	2693W
30	8135N	1130W	15900	2200	1	11	65	270W	6337	54002N	54372	8318N	5642N	2885W
30	8142N	1329W	15900	2205	1	11	65	295W	6260	54021N	54382	8323N	5426N	3121W
30	8149N	1530W	15900	2210	1	11	65	330W	6116	54189N	54533	8334N	5125N	3336W
30	8154N	1744W	15900	2215	1	11	65	347W	5915	54418N	54738	8348N	4868N	3360W
30	8044N	4450W	15900	2325	1	11	65	586W	5438	54830N	55099	8420N	2806N	4658W
30	8035N	4630W	15900	2330	1	11	65	608W	5330	55006N	55264	8428N	2654N	4622W
30	8025N	4807W	15900	2335	1	11	65	620W	5286	55000N	55254	8431N	2477N	4669W
30	8015N	4940W	15900	2340	1	11	65	624W	5156	55103N	55344	8439N	2356N	4687W
30	8005N	5102W	15900	2345	1	11	65	611W	5031	55166N	55394	8447N	2423N	4409W
30	7955N	5221W	15900	2350	1	11	65	654W	5074	55080N	55314	8444N	4623W	4423W
30	7945N	5337W	15900	2355	1	11	65	680W	4659	55168N	55364	8510N	1734N	4325W
30	7934N	5451W	15900	2355	1	11	65	673W	5085	55231N	55464	8444N	1937N	4702W
30	7923N	5603W	15900	2355	1	11	65	690W	4958	55348N	55570	8453N	1772N	4631W
30	7912N	5712W	15900	2355	1	11	65	700W	4891	55389N	55605	8457N	1663N	4600W
30	7859N	5824W	15900	2355	1	11	65	715W	4757	55391N	55595	8506N	1478N	4521W
30	7845N	5934W	15900	2355	1	11	65	731W	4473	55706N	55885	8525N	1295N	4281W
30	7832N	6041W	15900	2355	1	11	65	723W	4801	55729N	55935	8505N	1444N	4278W
30	7818N	6145W	15900	2355	1	11	65	720W	4649	55470N	55665	8513N	1434N	4423W
30	7804N	6246W	15900	2355	1	11	65	753W	4669	55750N	55945	8513N	1459N	4523W
30	7749N	6347W	15900	2355	1	11	65	762W	4490	55935N	56115	8525N	1052N	4365W
31	7516N	6526W	15000	200	3	11	65	695W	4963	56106N	56325	8457N	1701N	4663W
31	7450N	6228W	15000	215	3	11	65	700W	5394	55912N	56172	8429N	1840N	5071W
31	7445N	6116W	15000	220	3	11	65	690W	5504	55574N	55846	8421N	1965N	5141W
31	7440N	6005W	15000	225	3	11	65	634W	5407	55578N	55841	8427N	2398N	4847W
31	7435N	5855W	15000	230	3	11	65	602W	5664	55755N	56042	8412N	2790N	4929W
31	7429N	5745W	15000	235	3	11	65	554W	5918	55774N	56087	8357N	2968N	5120W
31	7447N	5409W	15000	250	3	11	65	614W	6148	55404N	55744	8340N	2904N	5419W
31	7453N	5252W	15000	255	3	11	65	595W	6675	55122N	55524	8306N	3339N	5780W
31	7500N	5136W	15000	300	3	11	65	552W	6828	54941N	55364	8255N	3832N	5652W
31	7506N	5022W	15000	305	3	11	65	553W	6490	54821N	55204	8315N	3450N	5497W
31	7512N	4908W	15000	310	3	11	65	561W	6525	54746N	55133	8312N	3625N	5425W

FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
31	7518N	4752W	15000	315	3	11	65	5437W	66556	54558N	54963	8303N	3854N	5427W
31	7523N	4636W	15000	320	3	11	65	5416W	66744	54748N	55162	8259N	3842N	5543W
31	7528N	4515W	15000	325	3	11	65	5503W	66722	54445N	55485	8301N	3823N	5546W
31	7532N	4352W	15000	330	3	11	65	5515W	69299	54486N	54925	8245N	4274N	5545W
31	7537N	4228W	15000	335	3	11	65	5120W	7115	54319N	54783	8232N	4446N	5555W
31	7541N	4103W	15000	340	3	11	65	5025W	7155	54091N	54563	8228N	4560N	5551W
31	7545N	3937W	15000	345	3	11	65	4658W	7241	53938N	54422	8221N	4942N	5529W
31	7548N	3811W	15000	350	3	11	65	4825W	7221	53971N	54452	8223N	4792N	5540W
31	7551N	3644W	15000	355	3	11	65	4501W	7357	53776N	54277	8213N	5201N	5520W
31	7554N	3516W	15000	400	3	11	65	4408W	7653	53710N	54252	8153N	5492N	5533W
31	7556N	3348W	15000	405	3	11	65	4327W	7711	53640N	54192	8149N	5599N	5530W
31	7558N	3216W	15000	410	3	11	65	4305W	7776	53519N	54081	8144N	5679N	5531W
31	7600N	3044W	14800	415	3	11	65	4200W	7656	53556N	54100	8152N	5689N	5124W
31	7601N	2912W	14700	420	3	11	65	4034W	7610	53460N	53999	8154N	5781N	4949W
31	7602N	2740W	14700	425	3	11	65	3750W	7659	53408N	53954	8150N	6049N	4697W
31	7602N	2616W	14700	430	3	11	65	3704W	7898	53246N	53829	8134N	6302N	4760W
31	7602N	2505W	14700	435	3	11	65	3636W	7908	53174N	53759	8132N	6350N	4714W
31	7601N	2355W	14700	440	3	11	65	3525W	7924	52999N	53588	8130N	6457N	4593W
31	7600N	2245W	14700	445	3	11	65	3421W	7990	52944N	53543	8125N	6597N	4508W
31	7558N	2122W	14700	450	3	11	65	3259W	8177	52850N	53478	8112N	6858N	4452W
31	7555N	1953W	14700	455	3	11	65	3014W	8474	52834N	53509	8053N	7322N	4266W
31	7552N	1827W	14700	500	3	11	65	2953W	8198	52795N	53428	8110N	7108N	4084W
31	7548N	1702W	14700	505	3	11	65	2951W	8376	52696N	53358	8058N	7265N	4168W
31	7544N	1537W	14700	510	3	11	65	2657W	8498	52677N	53358	8050N	7576N	3851W
31	7540N	1415W	14700	515	3	11	65	2641W	8613	52567N	53268	8042N	7695N	3868W
31	7535N	1253W	14700	520	3	11	65	2558W	8498	52449N	53133	8048N	7641N	3720W
31	7530N	1133W	14700	525	3	11	65	2530W	8608	52405N	53107	8040N	7833N	3570W
31	7524N	1013W	14700	530	3	11	65	2328W	8503	52382N	53067	8047N	7800N	3386W
31	7518N	858W	14700	535	3	11	65	2202W	8722	52417N	53137	8033N	8085N	3272W
31	7511N	744W	14700	540	3	11	65	2100W	8877	52238N	52987	8021N	8182N	3182W
31	7503N	631W	14700	545	3	11	65	1911W	9087	52172N	52958	8007N	8582N	2985W
31	7456N	520W	14700	550	3	11	65	1827W	8934	52147N	52907	8017N	8475N	2829W
31	7447N	409W	14700	555	3	11	65	1735W	9110	52025N	52816	8004N	8684N	2752W
31	7439N	300W	14700	600	3	11	65	1625W	9080	52005N	52791	8006N	8709N	2568W
31	7430N	152W	14700	605	3	11	65	1444W	9313	51969N	52797	7950N	9007N	2367W
31	7421N	45W	14700	610	3	11	65	1442W	9392	51863N	52706	7944N	9085N	2382W
31	7411N	21E	14700	615	3	11	65	1354W	9322	51824N	52656	7948N	9049N	2238W
31	7401N	125E	14700	620	3	11	65	1221W	9549	51778N	52651	7933N	9328N	2041W
31	7351N	228E	14700	625	3	11	65	1159W	9532	51756N	52627	7934N	9324N	1980W
31	7340N	330E	14700	630	3	11	65	1035W	9655	51702N	52596	7925N	9491N	1773W
31	7330N	431E	14700	635	3	11	65	941W	9854	51634N	52566	7912N	9714N	1656W
31	7320N	530E	14700	640	3	11	65	909W	9641	51633N	52525	7925N	9518N	1532W
31	7309N	628E	14700	645	3	11	65	831W	10009	51564N	52526	7901N	9898N	1482W
31	7258N	725E	14700	650	3	11	65	734W	9987	51456N	52416	7901N	9900N	1314W
31	7247N	821E	14700	655	3	11	65	602W	10150	51425N	52417	7850N	10094N	1066W
31	7236N	916E	14700	700	3	11	65	529W	10174	51352N	52351	7848N	10127N	972W
31	7225N	1006E	14700	705	3	11	65	539W	10160	51382N	52376	7849N	10111N	1000W
31	7214N	1054E	14700	710	3	11	65	434W	10279	51347N	52366	7841N	10246N	819W
31	7203N	1142E	14700	715	3	11	65	341W	10516	51248N	52316	7824N	10494N	677W
31	7151N	1229E	14700	720	3	11	65	355W	10334	51234N	52266	7836N	10310N	705W
31	7139N	1315E	14700	725	3	11	65	335W	10567	51222N	52301	7821N	10556N	477W
31	7127N	1402E	14700	730	3	11	65	159W	10512	51188N	52256	7824N	10505N	363W
31	7115N	1450E	14700	735	3	11	65	133W	10589	51172N	52256	7819N	10585N	286W
31	7102N	1537E	14700	740	3	11	65	16W	10837	51059N	52196	7801N	10837N	5W
31	7050N	1623E	14700	745	3	11	65	6E	10763	51069N	52191	7806N	10763N	19E
31	7037N	1709E	14700	750	3	11	65	33E	10701	51082N	52191	7810N	10700N	102E
31	7024N	1753E	14700	755	3	11	65	130E	10706	51127N	52236	7810N	10702N	280E
31	7011N	1836E	14700	800	3	11	65	49E	10764	51258N	52376	7808N	10763N	153E
35	7046N	2942E	16300	1625	8	11	65	841E	10650	51943N	53024	7825N	10528N	1609E
35	7105N	2930E	16300	1630	8	11	65	835E	10622	51974N	53049	7827N	10503N	1587E
35	7123N	2918E	16300	1635	8	11	65	841E	10474	52062N	53105	7837N	10354N	1580E
35	7142N	2909E	16300	1640	8	11	65	810E	10409	52131N	53160	7843N	10303N	1478E
35	7201N	2880E	16300	1645	8	11	65	806E	10319	52184N	53194	7849N	10216N	1455E
35	7220N	2834E	16300	1650	8	11	65	732E	10130	52262N	53235	7902N	10043N	1328E
35	7319N	2745E	16300	1705	8	11	65	740E	9613	52503N	53375	7937N	9527N	1282E
35	7339N	2728E	16300	1710	8	11	65	654E	9513	52546N	53400	7944N	9444N	1141E
35	7358N	2712E	16300	1715	8	11	65	714E	9476	52594N	53441	7947N	9400N	1192E
35	7416N	2656E	16300	1720	8	11	65	638E	9319	52667N	53485	7958N	9257N	1076E
35	7435N	2639E	16300	1725	8	11	65	708E	9173	52723N	53515	8008N	9102N	1139E
35	7454N	2621E	16300	1730	8	11	65	749E	9195	52786N	53581	8007N	9109N	1253E
35	7512N	2602E	16300	1735	8	11	65	706E	8964	52891N	53646	8023N	8896N	1108E
35	7531N	2543E	16200	1740	8	11	65	642E	8834	53004N	53735	8032N	8774N	1032E
35	7549N	2516E	16200	1745	8	11	65	450E	8600	53123N	53815	8048N	8570N	725E
35	7607N	2447E	16200	1750	8	11	65	511E	8487	53197N	53870	8056N	8452N	768E
35	7626N	2417E	16200	1755	8	11	65	602E	8415	53270N	53930	8101N	8368N	884E
35	7644N	2346E	16200	1800	8	11	65	511E	8151	53261N	53881	8118N	8118N	736E
35	7702N	2314E	16200	1805	8	11	65	444E	8213	53256N	53885	8114N	8184N	679E
35	7720N	2240E	16200	1810	8	11	65	320E	8136	53298N	53915	8119N	8123N	473E
35	7812N	2038E	16200	1825	8	11	65	150E	7847	53494N	54066	8139N	7843N	251E

FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
35	7830N	1953E	16200	1830	8	11	65	128E	7682	53553N	54101	8150N	7680N	198E
35	7847N	1906E	16200	1835	8	11	65	53E	7579	53593N	54127	8157N	7578N	116E
35	7904N	1816E	16200	1840	8	11	65	9W	7514	53637N	54161	8202N	7514N	20W
35	7923N	1742E	16200	1845	8	11	65	109W	7276	53717N	54207	8217N	7275N	147W
35	8001N	1629E	16300	1855	8	11	65	123W	7201	53834N	54313	8223N	7199N	174W
35	8020N	1549E	16300	1900	8	11	65	237W	7029	53942N	54398	8235N	7022N	321W
35	8038N	1506E	16300	1905	8	11	65	340W	6905	54125N	54564	8244N	6891N	442W
35	8057N	1420E	16300	1910	8	11	65	303W	6765	54067N	54489	8252N	6756N	360W
35	8147N	1129E	16300	1925	8	11	65	649W	6487	54262N	54648	8311N	6441N	770W
35	8203N	1024E	16300	1930	8	11	65	707W	6508	54391N	54779	8311N	6458N	807W
35	8219N	914E	16300	1935	8	11	65	813W	6164	54683N	55029	8334N	6101N	881W
35	8235N	800E	16300	1940	8	11	65	955W	5870	54513N	54828	8351N	5783N	1011W
35	8250N	635E	16300	1945	8	11	65	1153W	5694	54401N	54698	8401N	5572N	1172W
35	8305N	459E	16300	1950	8	11	65	1349W	5776	54468N	54773	8357N	5609N	1379W
35	8318N	316E	16300	1955	8	11	65	1544W	5730	54568N	54868	8400N	5515N	1554W
35	8332N	125E	16300	2000	8	11	65	1659W	5593	54592N	54878	8409N	5349N	1634W
35	8345N	33W	16300	2005	8	11	65	1944W	5550	54576N	54858	8412N	5224N	1874W
35	8357N	240W	16300	2010	8	11	65	2037W	5473	54819N	55091	8418N	5123N	1927W
35	8408N	517W	16300	2015	8	11	65	2526W	5293	54733N	54988	8429N	4780N	2273W
35	8423N	2307W	16300	2045	8	11	65	4055W	5073	55426N	55658	8446N	3834N	3322W
35	8416N	2557W	16300	2050	8	11	65	4408W	4990	55575N	55798	8452N	3582N	3475W
35	8409N	2840W	16300	2055	8	11	65	4525W	4819	55518N	55727	8502N	3382N	3433W
35	8401N	3115W	16300	2100	8	11	65	4625W	4821	55317N	55527	8501N	3324N	3492W
35	8352N	3344W	16300	2105	8	11	65	4839W	4806	55107N	55317	8501N	3175N	3608W
35	8342N	3605W	16300	2110	8	11	65	5147W	4798	55037N	55246	8501N	2969N	3769W
35	8306N	4235W	16300	2125	8	11	65	5830W	4724	54853N	55056	8505N	2469N	4027W
35	8252N	4427W	16200	2130	8	11	65	6104W	4604	54882N	55077	8512N	2227N	4030W
35	8238N	4612W	16100	2135	8	11	65	6301W	4621	55001N	55195	8512N	2097N	4118W
35	8223N	4750W	16000	2140	8	11	65	6409W	4576	55114N	55304	8515N	1996N	4118W
35	8209N	4925W	16000	2145	8	11	65	6448W	4567	55145N	55334	8516N	1945N	4132W
35	8155N	5055W	16000	2150	8	11	65	6654W	4667	55197N	55394	8510N	1831N	4293W
35	8141N	5219W	16000	2155	8	11	65	6802W	4642	55250N	55445	8512N	1736N	4305W
35	8126N	5339W	16000	2200	8	11	65	6851W	4478	55374N	55555	8523N	1616N	4176W
35	8111N	5454W	16000	2205	8	11	65	6808W	4494	55463N	55645	8522N	1674N	4171W
35	8056N	5605W	16000	2210	8	11	65	6935W	4632	55392N	55585	8513N	1617N	4341W
35	8041N	5710W	16000	2215	8	11	65	7024W	4525	55350N	55534	8520N	1517N	4263W
35	8026N	5812W	16000	2220	8	11	65	7004W	4531	55310N	55495	8519N	1544N	4260W
35	8011N	5911W	16000	2225	8	11	65	7147W	4525	55365N	55549	8520N	1414N	4298W
35	7956N	6007W	16000	2230	8	11	65	7401W	4560	55438N	55625	8518N	1255N	4384W
35	7940N	6059W	16000	2235	8	11	65	7214W	4580	55687N	55876	8518N	1397N	4362W
35	7925N	6150W	16000	2240	8	11	65	7208W	4503	55502N	55684	8522N	1382N	4286W
35	7910N	6239W	16000	2245	8	11	65	7502W	4365	55443N	55614	8530N	1127N	4217W
35	7855N	6325W	16000	2250	8	11	65	7546W	4431	55528N	55705	8526N	1090N	4295W
35	7840N	6406W	16000	2255	8	11	65	7533W	4446	55678N	55856	8526N	1110N	4305W
35	7826N	6444W	16000	2300	8	11	65	7724W	4361	55856N	56026	8532N	951N	4256W
35	7811N	6521W	16000	2305	8	11	65	7558W	4301	55840N	56005	8536N	1043N	4172W
35	7756N	6557W	16000	2310	8	11	65	7621W	4257	55964N	56126	8539N	1004N	4139W
35	7740N	6632W	16000	2315	8	11	65	7703W	4371	55975N	56145	8532N	980N	4259W
36	7543N	6504W	14900	235	9	11	65	7147W	4955	56011N	56229	8457N	1550N	4707W
36	7532N	6414W	14900	240	9	11	65	7022W	5027	55933N	56159	8452N	1689N	4735W
36	7550N	5945W	14800	300	9	11	65	6718W	5428	55795N	56059	8427N	2095N	5008W
36	7559N	5831W	14800	305	9	11	65	66C4W	5513	55626N	55899	8420N	2237N	5039W
36	7607N	5715W	14800	310	9	11	65	6549W	5619	55368N	55653	8412N	2302N	5125W
36	7615N	5559W	14800	315	9	11	65	6426W	5721	55237N	55533	8405N	2469N	5161W
36	7622N	5440W	14800	320	9	11	65	6244W	5869	55201N	55512	8356N	2688N	5217W
36	7629N	5321W	14800	325	9	11	65	6126W	5923	54974N	55292	8351N	2832N	5203W
36	7635N	5200W	14800	330	9	11	65	6052W	5994	54947N	55273	8346N	2918N	5236W
36	7642N	5035W	14700	335	9	11	65	5953W	6091	54845N	55182	8340N	3056N	5269W
36	7649N	4912W	14700	340	9	11	65	5806W	6020	54823N	55152	8344N	3181N	5111W
36	7656N	4749W	14700	345	9	11	65	5858W	6397	54778N	55150	8320N	3298N	5481W
36	7703N	4624W	14700	350	9	11	65	5645W	6254	54544N	54901	8328N	3429N	5230W
36	7709N	4458W	14700	355	9	11	65	5554W	6353	54462N	54831	8321N	3561N	5261W
36	7715N	4330W	14700	400	9	11	65	5445W	6454	54389N	54770	8314N	3725N	5271W
36	7722N	4149W	14700	405	9	11	65	5228W	6476	54367N	54751	8312N	3946N	5135W
36	7728N	4006W	14700	410	9	11	65	5115W	6610	54189N	54591	8303N	4138N	5154W
36	7733N	3821W	14700	415	9	11	65	4953W	6671	54075N	54485	8258N	4299N	5101W
36	7738N	3635W	14700	420	9	11	65	4749W	6716	54044N	54460	8255N	4510N	4976W
36	7742N	3448W	14700	425	9	11	65	4632W	6882	53943N	54388	8244N	4735N	4994W
36	7745N	3300W	14700	430	9	11	65	4453W	6932	53901N	54345	8240N	4912N	4891W
36	7747N	3119W	14700	435	9	11	65	4416W	7083	53694N	54159	8229N	5072N	4944W
36	7749N	2937W	14700	440	9	11	65	4124W	7024	53571N	54030	8232N	5262N	4645W
36	7749N	2756W	14700	445	9	11	65	4017W	7182	53596N	54075	8222N	5479N	4643W
36	7750N	2614W	14700	450	9	11	65	3835W	7333	53489N	53989	8212N	5733N	4573W
36	7749N	2432W	14700	455	9	11	65	3636W	7353	53466N	53969	8210N	5903N	4384W
36	7748N	2250W	14800	500	9	11	65	3536W	7453	53382N	53900	8203N	6060N	4339W
36	7745N	2101W	14800	505	9	11	65	3334W	7458	53285N	53805	8202N	6215N	4124W
36	7741N	1913W	14800	510	9	11	65	3046W	7488	53246N	53770	8200N	6435N	3830W
36	7737N	1726W	14800	515	9	11	65	2923W	7554	53480N	54010	8158N	6582N	3707W
36	7731N	1541W	14800	520	9	11	65	2926W	7820	53269N	53840	8139N	6811N	3842W

FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
36	7726N	1357W	14800	5255	9	11	65	26C6W	7793	531221N	533689	8139N	6999N	3428W
36	7719N	1215W	14800	5230	9	11	65	2627W	7983	533245N	533840	81128N	7147N	33556W
36	7712N	1035W	14800	5235	9	11	65	2453W	8075	532916N	533529	81196N	7325N	33398W
36	7704N	857W	14800	5240	9	11	65	2239W	8105	532886N	533504	8117N	7480N	33121W
36	7655N	721W	14800	5245	9	11	65	2127W	8183	532712N	533343	8111N	7616N	2993W
36	7646N	547W	14800	5250	9	11	65	1928W	8237	532659N	533299	8107N	7766N	2746W
36	7636N	416W	14800	5255	9	11	65	1744W	8342	532612N	533269	8059N	7945N	2542W
36	7626N	246W	14800	5260	9	11	65	1639W	8383	532575N	533239	8056N	8032N	2402W
36	7615N	115W	14800	5265	9	11	65	1538W	8516	532508N	533194	8047N	8201N	2295W
36	7604N	13E	14800	52610	9	11	65	1333W	8585	532460N	533158	8042N	8346N	22013W
36	7552N	139E	14800	52615	9	11	65	1231W	8642	532482N	533188	8039N	8436N	1874W
36	7540N	303E	14800	52620	9	11	65	1200W	8786	532366N	533098	8029N	8594N	1827W
36	7528N	425E	14800	52625	9	11	65	1045W	8857	532349N	533093	8024N	8702N	1652W
36	7514N	544E	14800	52630	9	11	65	920W	8978	532258N	533024	8025N	8859N	1455W
36	7503N	659E	14800	52635	9	11	65	820W	9133	532195N	532988	8005N	9036N	11324W
36	7452N	811E	14800	52640	9	11	65	721W	9182	532131N	532933	8001N	9107N	1175W
36	7440N	922E	14800	52645	9	11	65	606W	9211	532131N	532938	7959N	9159N	978W
36	7429N	1030E	14800	52650	9	11	65	521W	9298	532090N	532913	7953N	9258N	867W
36	7416N	1138E	14800	52655	9	11	65	440W	9421	532083N	532928	7945N	9300N	768W
36	7404N	1243E	14800	52660	9	11	65	308W	9579	532057N	532833	7933N	9364N	524W
36	7350N	1343E	14800	52665	9	11	65	233W	9596	531938N	532817	7932N	9586N	426W
36	7335N	1442E	14800	52670	9	11	65	146W	9736	531944N	532897	7924N	9732N	300W
36	7320N	1539E	14800	52675	9	11	65	101W	9855	531818N	532747	7914N	9854N	175W
36	7305N	1634E	14800	52680	9	11	65	0E	9976	531806N	532758	7906N	9976N	1E
36	7250N	1728E	14800	52685	9	11	65	54E	10106	531770N	532747	7857N	10106N	158E
36	7234N	1820E	14800	52690	9	11	65	122E	10118	531676N	532657	7855N	10115N	241E
36	7219N	1912E	14800	52695	9	11	65	223E	10159	531694N	532683	7853N	10150N	422E
36	7203N	2002E	14800	52700	9	11	65	414E	10342	532092N	533108	7846N	10314N	764E
36	7147N	2051E	14800	52705	9	11	65	310E	10693	531867N	532958	7821N	10677N	591E
36	7131N	2139E	14800	52710	9	11	65	334E	10624	531595N	532677	7822N	10603N	661E
36	7114N	2225E	14800	52715	9	11	65	410E	10669	531596N	532687	7819N	10641N	776E
36	7058N	2310E	14800	52720	9	11	65	443E	10745	531498N	532608	7813N	10709N	884E
36	7002N	2219E	16000	52725	9	11	65	407E	11144	531173N	532373	7743N	11115N	801E
36	6952N	2128E	16000	52730	9	11	65	405E	11102	531136N	532328	7745N	11074N	791E
36	6942N	2038E	16000	52735	9	11	65	339E	11112	531011N	532207	7743N	11089N	706E
36	6932N	1949E	16000	52740	9	11	65	219E	11194	530967N	532182	7737N	11118N	451E
36	6921N	1901E	16000	52745	9	11	65	209E	11293	530919N	532156	7730N	11285N	421E
36	6911N	1813E	16000	52750	9	11	65	148E	11295	530786N	532026	7728N	11290N	354E
36	6859N	1726E	16000	52755	9	11	65	126E	11448	530679N	532056	7716N	11444N	285E
36	6845N	1639E	16000	52760	9	11	65	116E	11490	530588N	531876	7712N	11487N	253E
36	6829N	1608E	16000	52765	9	11	65	23E	11543	530320N	531627	7705N	11543N	77E
36	6810N	1540E	16000	52770	9	11	65	23W	11685	530441N	531777	7657N	11685N	79W
36	6751N	1512E	16000	52775	9	11	65	105W	12096	530194N	531631	7627N	12094N	229W
36	6732N	1444E	16000	52780	9	11	65	14W	12125	530080N	531527	7623N	12125N	51W
37	6944N	1525E	11000	1520	10	11	65	28W	11148	530634N	531847	7735N	11148N	89W
37	7000N	1538E	11000	1525	10	11	65	8W	11047	530738N	531927	7743N	11047N	27W
37	7016N	1552E	11000	1530	10	11	65	12W	11014	530827N	532007	7746N	11014N	40W
37	7032N	1607E	11000	1535	10	11	65	7E	10911	530946N	532102	7755N	10911N	23E
37	7048N	1621E	11000	1540	10	11	65	9E	10804	531057N	532187	7803N	10804N	30E
37	7104N	1636E	11000	1545	10	11	65	6E	10691	531152N	532257	7812N	10691N	20E
37	7120N	1652E	11000	1550	10	11	65	33E	10619	531239N	532328	7817N	10619N	103E
37	7213N	1719E	11000	1605	10	11	65	113E	10287	531530N	532547	7843N	10284N	219E
37	7231N	1729E	11000	1610	10	11	65	58E	10198	531624N	532622	7850N	10196N	173E
37	7249N	1739E	11000	1615	10	11	65	114E	10077	531796N	532767	7859N	10075N	217E
37	7307N	1750E	10800	1620	10	11	65	154E	9964	531887N	532835	7908N	9959N	331E
37	7325N	1801E	10800	1625	10	11	65	153E	9936	532047N	532987	7912N	9931N	327E
37	7343N	1812E	10800	1630	10	11	65	157E	9674	532269N	533157	7931N	9668N	329E
37	7435N	1844E	10800	1645	10	11	65	242E	9288	532289N	533107	7956N	9278N	436E
37	7518N	1643E	10900	1700	10	11	65	14E	9053	532484N	533259	8013N	9053N	36E
37	7531N	1545E	11000	1705	10	11	65	8W	8994	532495N	533260	8017N	8994N	20W
37	7616N	1201E	14300	1725	10	11	65	338W	8781	532601N	533329	8031N	8763N	557W
37	7628N	1103E	16500	1730	10	11	65	426W	8610	532666N	533366	8043N	8584N	667W
37	7640N	1003E	16500	1735	10	11	65	538W	8620	532747N	533446	8043N	8578N	846W
37	7654N	903E	16500	1740	10	11	65	610W	8442	532790N	533460	8055N	8394N	906W
37	7720N	656E	16500	1750	10	11	65	823W	8349	532866N	533521	8102N	8260N	1217W
37	7732N	546E	16500	1755	10	11	65	934W	8190	532890N	533520	8112N	8076N	1361W
37	7745N	430E	16500	1800	10	11	65	1033W	8104	532964N	533580	8118N	7967N	1484W
37	7758N	311E	16500	1805	10	11	65	1152W	8029	532991N	533596	8123N	7857N	1651W
37	7810N	150E	16500	1810	10	11	65	1325W	7961	533112N	533706	8129N	7744N	1848W
37	7849N	343W	16500	1830	10	11	65	1844W	7561	533221N	533755	8152N	7161N	2428W
37	7854N	507W	16500	1835	10	11	65	1914W	7519	533222N	533750	8157N	7100N	2477W
37	7859N	632W	16500	1840	10	11	65	2140W	7408	533263N	533775	8205N	6885N	2736W
37	7903N	800W	16500	1845	10	11	65	2248W	7394	533295N	533805	8206N	6816N	2866W
37	7907N	934W	16500	1850	10	11	65	2400W	7326	533436N	533936	8212N	6693N	2979W
37	7911N	1109W	16500	1855	10	11	65	2540W	7359	533441N	533945	8212N	6633N	3186W
37	7915N	1245W	16500	1900	10	11	65	2641W	7259	533622N	54111	8217N	6486N	3260W
37	7918N	1422W	16300	1905	10	11	65	2805W	7108	533625N	54094	8227N	6271N	3346W
37	7920N	1600W	16100	1910	10	11	65	2910W	7086	53392N	54058	8228N	6187N	3454W
37	7924N	1727W	16100	1915	10	11	65	3021W	7127	53500N	53973	8225N	6150N	3602W

FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
37	7928N	1855W	16100	1920	10	11	65	3239W	7103	53534N	54004	8227N	5981N	3832W
37	7931N	16100	16100	1925	10	11	65	3412W	7106	53675N	54143	8228N	5877N	3995W
37	7933N	2154W	16100	1930	10	11	65	3500W	6963	53926N	54374	8239N	5703N	3994W
37	7936N	2324W	16100	1935	10	11	65	3727W	6696	53960N	54374	8256N	5316N	4072W
37	7938N	2455W	16100	1940	10	11	65	3910W	6676	53983N	54395	8257N	5176N	4217W
37	7940N	2631W	16100	1945	10	11	65	3946W	6440	54354N	54734	8315N	4951N	4119W
37	7940N	2811W	16100	1950	10	11	65	4017W	6316	54386N	54233	8319N	4818N	4084W
37	7940N	2952W	16100	1955	10	11	65	4353W	6564	53996N	54394	8304N	4731N	4550W
37	7939N	3134W	16100	2000	10	11	65	4522W	6379	54338N	54711	8318N	4482N	4539W
37	7938N	3315W	16100	2005	10	11	65	4639W	6212	54320N	54674	8329N	4264N	4517W
37	7936N	3455W	16100	2010	10	11	65	4619W	6318	54366N	54732	8322N	4364N	4569W
37	7934N	3634W	16100	2015	10	11	65	4857W	6250	54381N	54739	8327N	4105N	4713W
37	7931N	3812W	16100	2020	10	11	65	5105W	6214	54603N	54955	8330N	3904N	4835W
37	7926N	3947W	16100	2025	10	11	65	5159W	6001	54707N	55035	8344N	3696N	4728W
37	7920N	4121W	16100	2030	10	11	65	5510W	6014	54574N	54904	8343N	3434N	4936W
37	7914N	4254W	16100	2035	10	11	65	5554W	5716	54858N	55155	8403N	3205N	4733W
37	7907N	4424W	16100	2040	10	11	65	5458W	5820	54797N	55105	8356N	3341N	4766W
37	7900N	4553W	16100	2045	10	11	65	5700W	5885	54740N	55056	8352N	3205N	4936W
37	7855N	4717W	16100	2050	10	11	65	5818W	5904	54869N	55186	8351N	3102N	5024W
37	7850N	4840W	16100	2055	10	11	65	6100W	5704	55112N	55406	8405N	2765N	4989W
37	7845N	5002W	16100	2100	10	11	65	6050W	5292	55183N	55436	8431N	2679N	4621W
37	7840N	5123W	16100	2105	10	11	65	6113W	5278	55039N	55291	8431N	2542N	4625W
37	7835N	5242W	16100	2110	10	11	65	6302W	5321	55090N	55346	8429N	2413N	4742W
37	7828N	5115W	16100	2115	10	11	65	6446W	5315	55110N	55366	8429N	2266N	4808W
37	7820N	5543W	16100	2120	10	11	65	6722W	5212	55241N	55487	8437N	2005N	4810W
37	7812N	5657W	16100	2125	10	11	65	6810W	5206	55443N	55687	8438N	1935N	4833W
37	7803N	5810W	16100	2130	10	11	65	6811W	5060	55436N	55666	8447N	1880N	4698W
37	7754N	5920W	16100	2135	10	11	65	7150W	4910	55520N	55737	8457N	1531N	4665W
37	7745N	6029W	16100	2140	10	11	65	7413W	4819	55649N	55857	8503N	1311N	4637W
37	7735N	6146W	16100	2145	10	11	65	7436W	4813	55825N	56032	8504N	1278N	4640W
37	7724N	6301W	16100	2150	10	11	65	7352W	4531	556210N	556393	8523N	1260N	4353W
37	7713N	6413W	16100	2155	10	11	65	7134W	4465	56080N	56258	8527N	1411N	4236W
37	7702N	6525W	16100	2200	10	11	65	7136W	4568	56022N	56208	8520N	1442N	4335W
38	7743N	6800W	15000	2000	11	11	65	7717W	4091	56079N	56228	8550N	900N	3990W
38	7801N	6751W	15000	2005	11	11	65	8157W	4064	55970N	56118	8551N	569N	4023W
38	7819N	6741W	15000	2100	11	11	65	7857W	3980	55916N	56058	8556N	763N	3906W
38	7839N	6730W	15000	215	11	11	65	8042W	4041	55841N	55987	8552N	653N	3988W
38	7901N	6716W	15000	220	11	11	65	7833W	4164	55792N	55947	8544N	827N	4081W
38	7922N	6701W	15000	225	11	11	65	7957W	4069	55879N	56027	8550N	710N	4006W
38	7944N	6645W	15000	230	11	11	65	8214W	3944	55798N	55937	8557N	533N	3908W
38	8004N	6607W	15000	235	11	11	65	8110W	3825	55631N	55762	8604N	587N	3780W
38	8024N	6526W	15000	240	11	11	65	7837W	4084	55723N	55872	8549N	806N	4003W
38	8044N	6442W	15000	245	11	11	65	7955W	4025	55692N	55837	8552N	705N	3963W
38	8104N	6355W	15000	250	11	11	65	7928W	4058	55654N	55801	8550N	742N	3989W
38	8123N	6300W	15000	255	11	11	65	7825W	3997	55684N	55827	8554N	803N	3916W
38	8142N	6201W	15000	300	11	11	65	7854W	3962	55691N	55831	8556N	763N	3888W
38	8201N	6057W	15000	305	11	11	65	7854W	3929	55623N	55761	8558N	756N	3856W
38	8220N	5948W	14800	310	11	11	65	7732W	4008	55525N	55669	8552N	865N	3914W
38	8300N	5808W	14800	320	11	11	65	7526W	4108	55413N	55665	8556N	1033N	3976W
38	8320N	5711W	14800	325	11	11	65	7455W	3981	55367N	55529	8553N	1036N	3844W
38	8340N	5608W	14800	330	11	11	65	7357W	3931	55416N	55555	8557N	1087N	3778W
38	8400N	5458W	14800	335	11	11	65	7316W	3936	55446N	55585	8556N	1133N	3770W
38	8419N	5340W	14800	340	11	11	65	7248W	3869	55400N	55534	8600N	1144N	3696W
38	8439N	5200W	14800	345	11	11	65	7111W	3739	55384N	55510	8608N	1206N	3539W
38	8459N	5007W	14800	350	11	11	65	6920W	3786	55421N	55550	8606N	1336N	3542W
38	8518N	4758W	14800	355	11	11	65	6937W	3790	55466N	55595	8605N	1351N	3541W
38	8538N	4550W	14800	400	11	11	65	6728W	3770	55377N	55505	8606N	1445N	3482W
38	8557N	4329W	14800	405	11	11	65		3860	55491N	55625	8601N		
38	8615N	4043W	14700	410	11	11	65		3744	55543N	55669	8609N		
38	8633N	3739W	14700	415	11	11	65		3756	55512N	55639	8608N		
38	8650N	3402W	14700	420	11	11	65		3631	55501N	55620	8615N		
38	8706N	2944W	14700	425	11	11	65	5228W	3495	55579N	55689	8624N	2129N	2772W
38	8720N	2437W	14700	430	11	11	65	4854W	3406	55630N	55734	8630N	2235N	2566W
38	8734N	1829W	14700	435	11	11	65	4335W	3293	55763N	55860	8637N	2385N	2270W
38	8745N	1115W	14700	440	11	11	65	3715W	3451	55742N	55849	8627N	2747N	2089W
38	8729N	725E	15600	455	11	11	65	1453W	3643	55682N	55801	8615N	3521N	935W
38	8636N	144E	16500	510	11	11	65	1335W	4120	55596N	55749	8646N	4005N	968W
38	8618N	162E	17500	515	11	11	65	818W	4242	55599N	55671	8638N	4138N	643W
38	8559N	174E	17500	520	11	11	65	716W	4345	55461N	55630	8631N	4110N	549W
38	8540N	1859E	17400	525	11	11	65	530W	4507	55433N	55616	85521N	4486N	432W
38	8520N	2022E	17400	530	11	11	65	259W	4690	55326N	55525	8559N	4684N	244W
38	8500N	2133E	17400	535	11	11	65	40E	4847	55268N	5480	8459N	4846N	56E
38	8439N	2236E	17400	540	11	11	65	217E	4934	55230N	5450	8454N	4930N	197E
38	8419N	2331E	17400	545	11	11	65	103E	5086	55166N	5400	8444N	5086N	93E
38	8358N	2420E	17400	550	11	11	65	37E	5262	55114N	5365	8433N	5262N	286E
38	8339N	2458E	17400	555	11	11	65	36E	5588	55057N	5335	8415N	5228N	348E
38	8319N	2533E	17400	600	11	11	65	416E	5554	54929N	55210	8414N	5339N	412E
38	8300N	2604E	17400	605	11	11	65	504E	5666	54892N	55184	8406N	5644N	500E
38	8240N	2633E	17400	610	11	11	65	542E	5858	54827N	55139	8354N	5829N	581E

	FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
38	8219N	701E	17400	6135	11	11	65	626E	5974	54770N	55104	8347N	5936N	669E	
38	82158N	726E	17400	6225	11	11	65	7C8E	6117	54612N	54953	8337N	6069N	760E	
38	82137N	748E	17400	6225	11	11	65	7C6E	6222	54595CN	54943	8330N	6174N	769E	
38	82116N	800E	17400	6300	11	11	65	723E	6322	54589N	54954	8324N	6270N	813E	
38	80555N	17400	6345	6580	11	11	65	820E	6580	54512N	54908	8307N	6511N	954E	
38	80344N	222E	17400	6400	11	11	65	829E	6683	54489N	54898	8300N	6610N	986E	
38	80133N	283E	17400	6450	11	11	65	838E	6940	54367N	54808	8244N	6861N	1081E	
38	7951N	284E	17400	6500	11	11	65	849E	7059	54336N	54793	8236N	6976N	1082E	
38	7930N	284E	17400	6550	11	11	65	809E	7244	54176N	54658	8223N	7170N	1027E	
38	7909N	283E	17400	7000	11	11	65	847E	7273	54080N	54567	8220N	7187N	1110E	
38	7847N	283E	17400	7050	11	11	65	819E	7472	53987N	54502	8207N	7394N	1080E	
38	7826N	283E	17400	7100	11	11	65	839E	7521	53935N	54457	8204N	7436N	1132E	
38	7805N	283E	17400	7150	11	11	65	843E	7710	53933N	54452	8152N	7621N	1168E	
38	7743N	283E	17400	7200	11	11	65	833E	7895	53766N	54342	8139N	7807N	1174E	
38	7722N	282E	17400	7250	11	11	65	836E	7968	53648N	54237	8133N	7879N	1192E	
38	7700N	282E	17400	7300	11	11	65	828E	8096	53614N	54222	8125N	8007N	1193E	
38	7639N	282E	17400	7350	11	11	65	819E	8307	53506N	54147	8110N	8220N	1202E	
38	7617N	282E	17400	7400	11	11	65	836E	8390	53402N	54057	8104N	8296N	1205E	
38	7555N	282E	17300	7450	11	11	65	822E	8541	53331N	53991	8054N	8450N	1245E	
38	7532N	283E	17300	7500	11	11	65	846E	8701	53325N	53941	8043N	8599N	1337E	
38	7510N	283E	17300	7550	11	11	65	815E	8844	53140N	53871	8033N	8753N	1270E	
38	7447N	283E	17300	8000	11	11	65	920E	9046	53050CN	53816	8019N	8926N	1468E	
38	7425N	283E	17300	8050	11	11	65	828E	9152	52956N	53741	8012N	9052N	1347E	
38	7403N	283E	17300	8100	11	11	65	839E	9302	52833N	53645	8001N	9197N	1400E	
38	7341N	283E	17300	8150	11	11	65	923E	9572	52698N	53561	7942N	9444N	1561E	
38	7318N	284E	17300	8200	11	11	65	908E	9652	52642N	53520	7937N	9530N	1532E	
38	7256N	284E	17300	8250	11	11	65	835E	9719	52566N	53460	7931N	9623N	1338E	
38	7233N	284E	17300	8300	11	11	65	808E	9852	52468N	53385	7922N	9753N	1393E	
38	7210N	284E	17300	8350	11	11	65	827E	10044	52386N	53340	7909N	9935N	1477E	
38	7147N	285E	17300	8400	11	11	65	832E	10173	52294N	53275	7900N	10061N	1503E	
38	7123N	285E	17300	8450	11	11	65	725E	10313	52195N	53204	7849N	10227N	1332E	
38	7032N	283E	17300	9000	11	11	65	811E	10689	51800CN	52891	7820N	10580N	1523E	
38	7007N	260E	16500	9150	11	11	65	704E	11051	51479N	52652	7753N	10968N	1358E	
38	7002N	245E	16000	9200	11	11	65	548E	11146	51332N	52528	7745N	11089N	1122E	
38	7000N	235E	16000	9250	11	11	65	510E	11027	51296N	52467	7752N	10982N	992E	
38	6957N	225E	16000	9300	11	11	65	432E	10963	51248N	52407	7755N	10928N	866E	
38	6954N	215E	16000	9350	11	11	65	330E	11055	51176N	52357	7749N	11034N	676E	
38	6950N	205E	16000	9400	11	11	65	331E	11000	51014N	52186	7750N	10979N	676E	
38	6939N	195E	16000	9450	11	11	65	234E	10882	50892N	52042	7756N	10871N	488E	
38	6927N	190E	16000	9500	11	11	65	140E	11216	50968N	52187	7735N	11211N	326E	
38	6916N	181E	16000	9550	11	11	65	112E	11459	50759N	52037	7717N	11456N	241E	
38	6904N	172E	16000	10000	11	11	65	130E	11462	50719N	51998	7716N	11458N	299E	
38	6851N	163E	16000	10000	11	11	65	52E	11585	50533N	51848	7705N	11584N	177E	
38	6829N	160E	16000	10100	11	11	65	46E	11457	50341N	51628	7711N	11456N	153E	
40	6901N	152E	14500	1500	13	11	65	332W	11492	50609N	51897	7712N	11470N	707W	
40	6913N	144E	14500	1505	13	11	65	127W	11056	50665N	51857	7741N	11052N	281W	
40	6925N	140E	14000	1510	13	11	65	149W	11113	50505N	51713	7735N	11107N	351W	
40	6937N	132E	14500	1515	13	11	65	329W	11216	50588N	51817	7730N	11195N	682W	
40	6949N	123E	14500	1520	13	11	65	335W	11216	50620N	51847	7730N	11194N	703W	
40	7001N	115E	14500	1525	13	11	65	413W	11011	50695N	51877	7745N	10982N	809W	
40	7013N	111E	14500	1530	13	11	65	414W	10900	50780N	51937	7753N	10870N	806W	
40	7025N	102E	14500	1535	13	11	65	523W	10944	50719N	51886	7749N	10896N	1027W	
40	7035N	93E	14500	1540	13	11	65	538W	10807	50897N	52032	7801N	10755N	1062W	
40	7056N	80E	14500	1550	13	11	65	712W	10795	50910N	52042	7802N	10710N	1353W	
40	7107N	71E	14500	1555	13	11	65	803W	10601	50885N	51978	7814N	10497N	1484W	
40	7127N	52E	14500	1605	13	11	65	839W	10565	51010N	52093	7818N	10445N	1588W	
40	7137N	43E	14500	1610	13	11	65	915W	10412	51087N	52138	7829N	10277N	1673W	
40	7147N	33E	14500	1615	13	11	65	1010W	10358	51155N	52193	7833N	10195N	1828W	
40	7156N	24E	14500	1620	13	11	65	1018W	10260	51220N	52218	7840N	10095N	1833W	
40	7205N	14E	14500	1625	13	11	65	1138W	10209	51200N	52208	7843N	9999N	2059W	
40	7214N	50E	14500	1630	13	11	65	1151W	10283	51303N	52323	7840N	10064N	2112W	
40	7222N	5W	14500	1635	13	11	65	1253W	10078	51267N	52248	7853N	9824N	2249W	
40	7230N	102W	14500	1640	13	11	65	1350W	10118	51300N	52288	7851N	9825N	2419W	
40	7238N	159W	14500	1645	13	11	65	1453W	10034	51439N	52409	7858N	9697N	2578W	
40	7309N	555W	16000	1705	13	11	65	1756W	9647	51595N	52489	7925N	9178N	2971W	
40	7316N	657W	16000	1710	13	11	65	1917W	9712	51583N	52490	7920N	9167N	3207W	
40	7323N	800W	16000	1715	13	11	65	1932W	9682	51753N	52650	7924N	9124N	3238W	
40	7330N	903W	16000	1720	13	11	65	2023W	9553	51878N	52750	7934N	8955N	3327W	
40	7336N	1007W	16000	1725	13	11	65	2123W	9344	51865N	52700	7947N	8701N	3407W	
40	7343N	1111W	16000	1730	13	11	65	2252W	9488	51819N	52680	7937N	8742N	3688W	
40	7348N	1217W	16000	1735	13	11	65	2358W	9514	51906N	52771	7937N	8694N	3866W	
40	7354N	1323W	16000	1740	13	11	65	2429W	9343	52079N	52911	7930N	8503N	3871W	
40	7359N	1430W	16000	1745	13	11	65	2600W	9279	52183N	53001	7955N	8339N	4068W	
40	7405N	1533W	16000	1750	13	11	65	2641W	9015	52260N	53032	8013N	8056N	4047W	
40	7422N	1922W	16000	1805	13	11	65	3013W	8907	52273N	53026	8020N	7696N	4484W	
40	7425N	2033W	16000	1810	13	11	65	3209W	8753	52506N	53231	8032N	7410N	4658W	
40	7427N	2142W	16000	1815	13	11	65	3259W	8641	52627N	53331	8041N	7248N	4705W	
40	7428N	2251W	16000	1820	13	11	65	3356W	8672	52753N	53461	8040N	7196N	4841W	
40	7430N	2400W	16000	1825	13	11	65	3310W	8506	52871N	53551	8052N	7121N	4653W	

FL	LAT	LONG	ALT	GMT	DA	MO	YR	D	H	Z	F	I	X	Y
40	7430N	2509W	15900	1830	13	11	65	3508W	8498	52699N	53380	8050N	6950N	4890W
40	7432N	2835W	15900	1845	13	11	65	3857W	8459	52945N	533616	8055N	6578N	53318W
40	7432N	2942W	15900	1850	13	11	65	3947W	8316	533165N	533812	8017N	6391N	53322W
40	7431N	3050W	15900	1855	13	11	65	4000W	8183	533286N	533911	8116N	6268N	52260W
40	7431N	3157W	15900	1900	13	11	65	4135W	8258	533295N	533931	8112N	6178N	5481W
40	7430N	3306W	15900	1905	13	11	65	4229W	8106	533455N	54066	8123N	5978N	5475W
40	7428N	3420W	15900	1910	13	11	65	4355W	8024	533554N	54152	8129N	5876N	5464W
40	7426N	3533W	15900	1915	13	11	65	4351W	7912	533601N	54182	8136N	5705N	5481W
40	7423N	3647W	15900	1920	13	11	65	4529W	7841	533692N	54262	8141N	5498N	5591W
40	7420N	3759W	15900	1925	13	11	65	4559W	7810	533787N	54352	8144N	5428N	5616W
40	7417N	3912W	15900	1930	13	11	65	4644W	7597	533814N	54347	8158N	5207N	5532W
40	7413N	4023W	15900	1935	13	11	65	4856W	7478	533876N	54392	8206N	4913N	5637W
40	7409N	4134W	15900	1940	13	11	65	4922W	7564	533954N	54481	8201N	4925N	5741W
40	7404N	4243W	15900	1945	13	11	65	4956W	7510	54164N	54682	8206N	4834N	5747W
40	7400N	4348W	15900	1950	13	11	65	5054W	7448	54223N	54733	8211N	4696N	5780W
40	7355N	4452W	15900	1955	13	11	65	5231W	7234	54354N	54833	8225N	4401N	5741W
40	7349N	4555W	15900	2000	13	11	65	5247W	7256	54452N	54933	8225N	4389N	5778W
40	7344N	4658W	15900	2005	13	11	65	5248W	7128	54625N	55088	8234N	4310N	5677W
40	7338N	4800W	15900	2010	13	11	65	53301W	7186	54632N	55103	8230N	4322N	5741W
40	7332N	4905W	15900	2015	13	11	65	5351W	7023	54674N	55124	8241N	4142N	5671W
40	7325N	5009W	15900	2020	13	11	65	5500W	6969	54782N	55223	8245N	3997N	5710W
40	7318N	5113W	15900	2025	13	11	65	5615W	6904	54770N	55203	8249N	3836N	5741W
40	7310N	5215W	15900	2030	13	11	65	5647W	6809	54833N	55254	8255N	3828N	5631W
40	7302N	5319W	15900	2035	13	11	65	5757W	6881	54954N	55383	8252N	3651N	5833W
40	7253N	5422W	15900	2040	13	11	65	5834W	6820	55165N	55585	8257N	3557N	5819W
40	7245N	5523W	15900	2045	13	11	65	5724W	6724	55267N	55674	8304N	3623N	5664W
40	7206N	5659W	15900	2100	13	11	65	6107W	6564	55363N	55751	8314N	3170N	5747W
40	7153N	5723W	15900	2105	13	11	65	5914W	6603	55523N	55915	8313N	3378N	5673W
40	7139N	5746W	15900	2110	13	11	65	5956W	6710	55612N	56015	8307N	3362N	5807W
40	7124N	5810W	15900	2115	13	11	65	5952W	6751	55555N	55964	8304N	3389N	5839W
40	7109N	5833W	15900	2120	13	11	65	6005W	6656	55643N	56039	8311N	3319N	5769W
40	7054N	5856W	15900	2125	13	11	65	6147W	6459	55762N	56135	8324N	3055N	5691W
40	7039N	5918W	15900	2130	13	11	65	6037W	6306	55632N	56676	8337N	3094N	5495W
40	7024N	5940W	15900	2135	13	11	65	5977W	6402	55672N	56436	8329N	3413N	5417W
40	7008N	6001W	15900	2140	13	11	65	5859W	6499	55604N	56425	8323N	3541N	5450W
40	6938N	6043W	15900	2150	13	11	65	5818W	6680	556018N	56415	8312N	3511N	5683W
40	6906N	6125W	15900	2200	13	11	65	5646W	6715	556221N	56620	8311N	3681N	5616W
40	6851N	6145W	15900	2205	13	11	65	5606W	6813	556235N	56646	8306N	3800N	5655W
40	6835N	6205W	15900	2210	13	11	65	5629W	6831	556268N	56681	8305N	3772N	5696W
40	6804N	6301W	15900	2220	13	11	65	5512W	6889	556367N	56787	8302N	3931N	5657W
40	6748N	6327W	15900	2225	13	11	65	5455W	6864	55643N	56846	8304N	3945N	5617W
40	6733N	6353W	15900	2230	13	11	65	5308W	6927	556448N	56872	8300N	3960N	5684W
40	6719N	6413W	15900	2235	13	11	65	5223W	6871	556601N	57016	8305N	3904N	5655W
40	6704N	6432W	15900	2240	13	11	65	5440W	6987	556966N	57392	8300N	4040N	5700W
40	6650N	6451W	15900	2245	13	11	65	5311W	6963	556984N	57407	8302N	4173N	5575W
40	6635N	6510W	15900	2250	13	11	65	5148W	7043	557115N	57547	8258N	4355N	5535W
40	6619N	6535W	15900	2255	13	11	65	5130W	7105	557098N	57538	8254N	4422N	5561W
40	6602N	6600W	15900	2300	13	11	65	5027W	6978	557063N	57488	8302N	4443N	5381W
40	6546N	6620W	15900	2305	13	11	65	5105W	6949	557117N	57538	8304N	4366N	5407W
40	6530N	6639W	15900	2310	13	11	65	5017W	7016	557225N	57654	8301N	4483N	5396W
40	6514N	6657W	15900	2315	13	11	65	4959W	7153	557313N	57758	8253N	4599N	5478W
40	6458N	6716W	15900	2320	13	11	65	4849W	7087	557484N	57919	8258N	4666N	5334W
40	6115N	6428W	12000	100	14	11	65		8698	57191N	57849	8121N		
40	6103N	6419W	12000	105	14	11	65		9161	57210N	57939	8054N		
40	6051N	6411W	12000	110	14	11	65		9276	57161N	57909	8047N		
40	6039N	6403W	12000	115	14	11	65		9449	57123N	57899	8036N		
40	6025N	6355W	12000	120	14	11	65		9496	57110N	57894	8034N	7154N	6244W
40	6012N	6347W	12000	125	14	11	65	4107W	9625	57205N	58009	8027N	7165N	6427W
40	5958N	6339W	12000	130	14	11	65	4052W	9735	557024N	57849	8019N	7362N	6370W
40	5945N	6331W	12000	135	14	11	65	4014W	9715	556854N	57678	8018N	7416N	6276W
40	5931N	6324W	12000	140	14	11	65	3942W	9756	556857N	57688	8016N	7507N	6232W
40	5810N	6228W	12000	210	14	11	65	3805W	10504	556583N	57550	7929N	8267N	6480W
40	5758N	6216W	12000	215	14	11	65	3749W	10753	556455N	57470	7913N	8495N	6592W
40	5747N	6204W	12000	220	14	11	65	3749W	10807	556331N	57359	7908N	8537N	6626W
40	5735N	6152W	12000	225	14	11	65	3638W	11107	556366N	57449	7851N	8912N	6628W
40	5723N	6141W	12000	230	14	11	65	3639W	11239	556278N	57390	7842N	9016N	6710W
40	5712N	6129W	12000	235	14	11	65	3628W	11315	556150N	57279	7836N	9099N	6726W
40	5700N	6118W	12000	240	14	11	65	3512W	11519	555966N	57139	7822N	9414N	6639W
40	5633N	6058W	12000	250	14	11	65	3546W	11478	555816N	56984	7823N	9314N	6708W
40	5620N	6048W	12000	255	14	11	65	3601W	11809	555659N	56898	7801N	9551N	6944W
40	5607N	6038W	12000	300	14	11	65	3605W	11982	555642N	56918	7751N	9683N	7058W
40	5553N	6029W	12000	305	14	11	65	3644W	12077	555519N	56818	7744N	9679N	7223W