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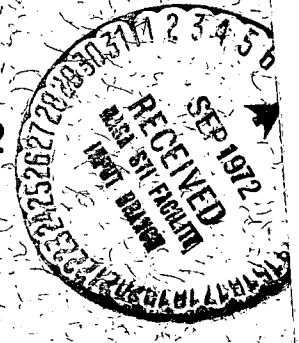
POGO OBSERVATIONS OF THE EQUATORIAL ELECTROJET

J. C. CAIN
R. E. SWEENEY

AUGUST 1972



GSFC — GODDARD SPACE FLIGHT CENTER —
GREENBELT, MARYLAND

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PREFACE

This preliminary report is written for distribution at the Fourth International Symposium on Equatorial Aeronomy being held at Ibadan, Nigeria, September 4-11, 1972. It will comprise the basis for the review of the POGO data to be given in one session of the meeting. Further, the tabular data in appendices A and B have been distributed prior to the meeting to a number of groups who are making comparisons with various surface data. Some of these are planning on presenting results of their studies at the same session. It is anticipated that these cooperative studies will be continued to provide additional physical insights into the structure and variations of the equatorial electrojet, taking advantage of the wealth of new data on solar wind, magnetospheric and ionospheric parameters, ion drift data, more sophisticated theories, and realistic physical models easily evaluated on modern computers. Some of the possible fallout from these studies includes data on neutral winds at 100 km altitude, of possible importance to meteorology, and information on the conductivity structure of the crust and upper mantle, of interest to tectonophysicists.

ABSTRACT

During intervals in 1967 - 1970, the OGO-4 and 6 spacecraft made over 2000 traversals over the equatorial electrojet in the altitude range 400-800 km when local times were between 9 and 15^h. These spacecraft carried total field magnetometers making measurements to an accuracy of 2γ with a sample rate greater than once a second. ΔF values, the deviations from these observations, were formed from an internal reference model. The results were plotted for a 30° band about the equator, and the characteristics of the electrojet effect in the data were investigated. This effect was characterized by a sharp negative V-signature of some 16-19° in width and a variable amplitude. The position of this minimum was found to lie within 0.5° of the dip equator. A slight northward shift was noted at the longitude of Huancayo. The jet amplitudes were normalized to 400 km amplitudes and observed to be highly variable in time. Amplitudes over the longitude range 50 to 90°W averaged 60% higher than elsewhere, as expected, due to the weaker main field. However, though the scatter of amplitudes is high, the expected minima in east Asia was not evident. It was speculated that this could be due to a less conducting upper mantle in this area.

Numerous anomalous cases were observed, usually during magnetic disturbance. Although some of the largest eastward jets were observed at these times, there were also instances when the jet was absent or weakly westward. One such westward jet occurred during the recovery phase of a storm when there was no

activity in the auroral zone. It is speculated that this could be caused by an inductive emf as the storm field weakened.

Other instances appeared where the V signature in ΔF spanning 20° in latitude became instead a triple V (VVV) covering about 40°. One interpretation would be the presence of an eastward current in the magnetosphere affecting the total field over about 20° of latitude in which the jet could be detected. The whole structure is imbedded in a reduced field of the characteristic DS shape.

INTRODUCTION

The term "equatorial electrojet" was coined by Sydney Chapman (1951) to describe the ionospheric current then conjectured to be responsible for the anomalously large variation of Sq(H) observed near the magnetic dip equator. This variation had been observed with the establishment of the Huancayo observatory in 1922 and discussed by A. G. McNish (1937) in terms of an enhanced Sq due to the large deviation of the dip equator from the geographic at that longitude. The basis of the theory showed some advance by the recognition of J. Egedal (1947) of Peterson's result that the ionospheric conductivity could be greater at Huancayo because of the smaller value of the magnetic field. The essential theoretical explanation was then provided by Baker and Martyn (1952), who used estimated ionospheric parameters and showed that the east-west effective conductivity could be greatly enhanced at the dip equator by the possibility of maintaining a vertical electric field.

With interest in this phenomena high and impetus from the IGY, more observing stations were established on the equator including temporary nets of several recorders across the equator. Such studies as those by Onwumechilli (1959) and by Forbush and Casaverde (1961) confirmed earlier estimates by workers such as Martyn (1949) that the current was concentrated over a narrow band about the dip equator and that its intensity was highly variable from day-to-day.

Measurements by rocket experiments, first by Singer, Maple and Bowen (1951) and later by Cahill (1959) and numerous others, established that the altitude at which the conductivity was maximum occurred near 100 km over the dip equator.

More theoretical work on the possible current structures by Untiedt (1967) and by Sugiura and Poros (1969) established that the east-west current flow is accompanied by two cells of toroidal flow in the meridian plane near the equator.

Radar measurements near Peru (Cohen and Bowles, 1963) have established that an instability occurs in the electrojet and is detectable after the current rises past a threshold value. The effect of this phenomena on electrojet theory appears to have not yet been developed.

THEORY AND MODELS

The most recent development of a model electrojet is that of Sugiura and Poros (1969) who showed that for a reasonable model of ionospheric parameters and magnetic field, and some assumptions on the behavior of the eastward current and boundary conditions, the electrojet width is of the order of 400 km flowing over an altitude range from 100 to 120 km. Other facets of their results include the presence of an equally strong meridional component of flow in two cells which center 2-3° on each side of the dip equator in a direction so that the horizontal flux is eastward inside the south cell and westward within the north. The longitudinal variations in the strength of the main magnetic field result in a

ratio of about 1.7 in the intensity of these currents, from the strongest near Peru compared with the weakest near India. This ratio applies both to the strength of the meridional flow as well as that of the eastward current.

The presence of such a current and its limitation in altitude to the 100-120 km range has been confirmed by such rocket experiments as those by Davis, Burrows and Stolarik (1967).

Numerous authors have attempted to define a reasonable model of the eastward current distribution from the magnetic variations. Chapman (1951) considered the field patterns at the surface that would be produced by infinitely long currents in the form of a line, uniform band, and band with a parabolic distribution. The use of the infinite line current approximation is justified by the fact that most of the contribution comes from about 45° to the nearest approach. The affect of curvature should be included for more sophisticated modelling. Onwumechilli (1967) has used another function

$$J = J_0 \frac{a^2(a^2 + \alpha \xi^2)}{(a^2 + \xi^2)^2}$$

which allows for the change of the shape of a symmetric current from that of a near parabolic or gaussian distribution ($0 \leq \alpha \leq 2$) to one where there is a possibility of a westward current outside the main positive eastward core. No one has yet attempted to use such theoretical models as that of Sugiura and Poros (1969) to see whether there is agreement in the shape of the curves, and if so,

what might be the parameters. This model does contain a very weak westward current.

The modelling of data profiles from either satellite or surface observations is influenced by the effect of induced currents. This question has not yet been seriously attacked for the case of the electrojet other than to follow Chapman's (1951) lead in overestimating their effect by the use of an infinitely conducting layer at some depth. The effect of a more realistic distribution of conductivity has not been applied to this problem. Forbush and Casaverde (1961) used the 250 km depth along with a uniform band current 600 km wide for their data in Peru. Onwumechilli and Ogbeuhi (1967) found an equivalent depth of about 200 km for the conducting sheet. None of these estimates is considered by their originators to be particularly accurate.

The effective width of current from the theoretical model appears to be of the order of 550 km. Onwumechilli obtains an equivalent width of almost 800 km.

The signature of the jet effect in the total field satellite data can be computed from various models by application of the equation

$$\Delta F = |\overline{F}_i + \overline{F}_j| - |\overline{F}_i|$$

where j refers to the jet effect and i to the internal field. Flying the satellite magnetometer over a plane earth with a uniform band current 550 km wide and

a 200 km deep conductor in the presence of a dipole-like field whose dip varies 2° in 111 km gives the curves of Figure 1. These are normalized to a 70 γ horizontal field at the surface. More sophisticated models have been calculated with the uniform current model in which the magnetometer is flown at a constant radius over a spherical earth with varying depths and widths of current. The result is essentially the same as that shown. This will be further discussed in the section on jet models.

The question of any additional effect of Sq from outside the immediate jet region is yet to be resolved. Using the classical work of Chapman (Chapman and Bartels, 1940) to represent the expected ΔF variations, we obtain the curve in Figure 2. It is presently not clear from surface data and such results as those of Olson (1970) as to how much of the observed Sq should be modelled in the ionosphere. This is left for further analysis of the POGO data, which should be able to resolve the question. Since the electrojet signature itself is fairly sharp and distinct, it can be at least initially isolated from the broader Sq effect.

THE POGO DATA

The POGO series spacecraft included the near polar OGO-2,4 and 6 launched in 1965, 1967 and 1969 respectively. Each carried a total field magnetometer and observed the field to an accuracy of about 2 γ. Reference fields were established from the data (Cain, Hendricks, Langel, and Hudson, 1967, Cain and Sweeney, 1970), which allowed studies of time variations (Langel and Sweeney, 1971).

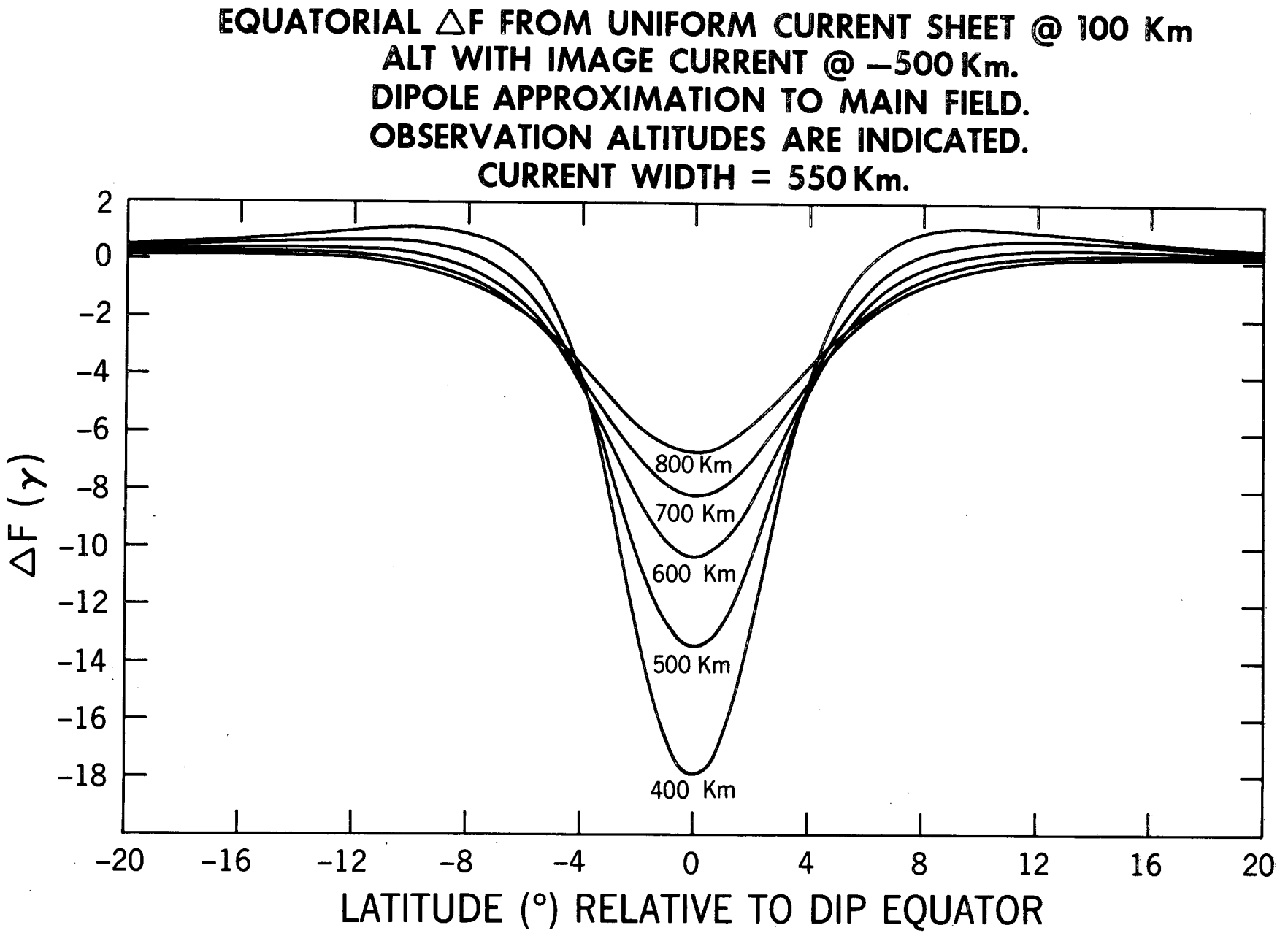
EQUATORIAL △F FROM UNIFORM CURRENT SHEET @ 100 Km
ALT WITH IMAGE CURRENT @ −500 Km.
DIPOLE APPROXIMATION TO MAIN FIELD.
OBSERVATION ALTITUDES ARE INDICATED.
CURRENT WIDTH = 550 Km.
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
ΔF (γ)
800 Km
700 Km
600 Km
500 Km
400 Km
-20
-16
-12
-8
-4
0
4
8
12
16
20
LATITUDE (°) RELATIVE TO DIP EQUATOR

Figure 1

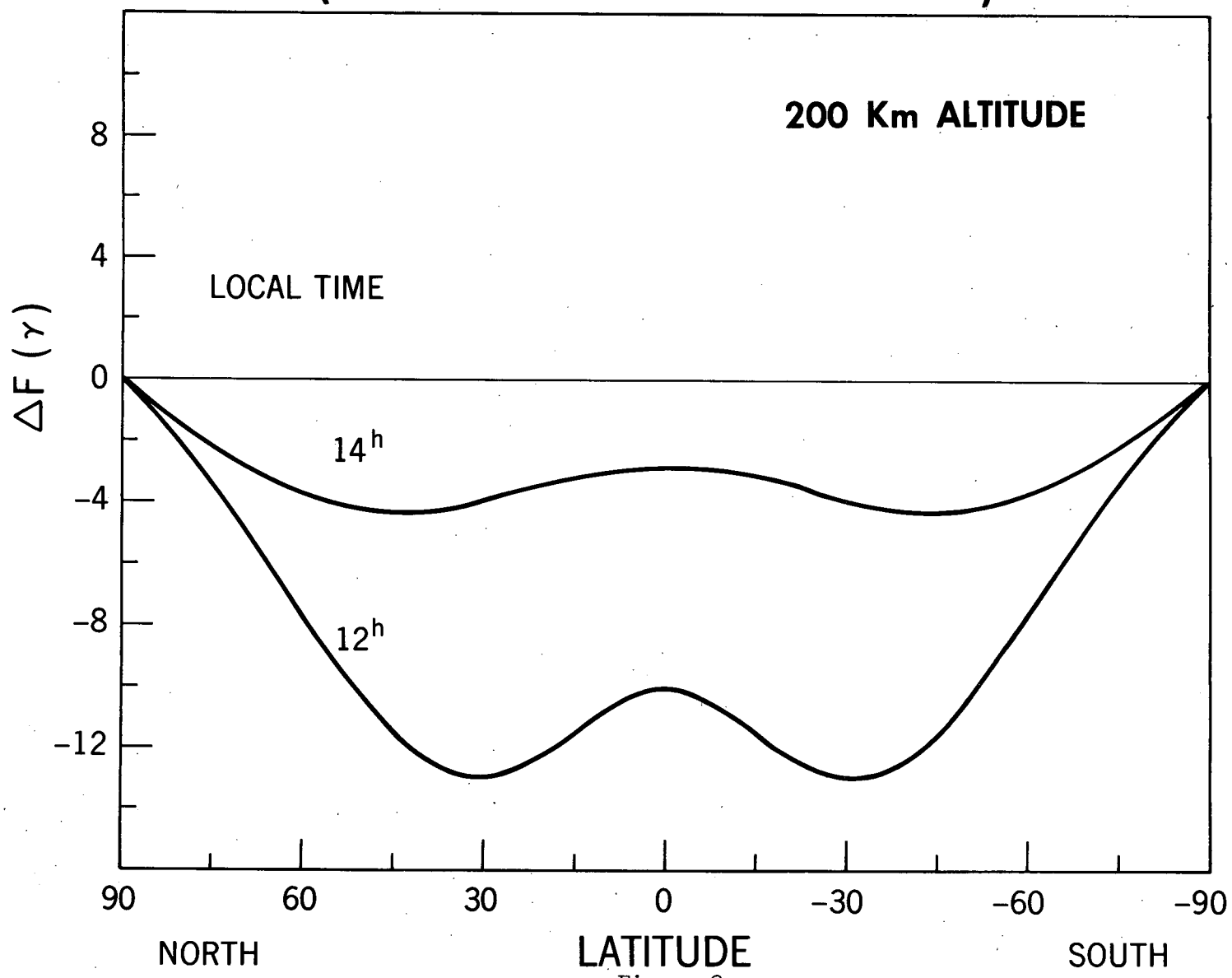
MODEL Sq (F) VARIATIONS
(AFTER CHAPMAN)
(ELECTROJET NOT INCLUDED)
200 Km ALTITUDE
LOCAL TIME
14h
12h
ΔF (γ)
8
4
0
-4
-8
-12
90
60
30
0
-30
-60
-90
NORTH
LATITUDE
SOUTH

Figure 2

Since OGO-2 primarily operated only when in full sunlight and only acquired two partial traverses over the electrojet, the discussion here will center on OGO-4 and OGO-6. The characteristics of these orbits relative to equatorial traverses are as follows:

	Altitude Range Over Equator	Angle to Geographic Equator	Local Time Change Per Day
OGO-4	410-910 km	90°	~6 min
OGO-6	400-1100 km	86°	~9 min

Figure 3 gives the range of local times and altitudes over the equator for the intervals of data collection. During these intervals the data were acquired for almost all traversals except those for which there were mechanical problems or the tape recorders were being used for spacecraft control functions.

Reference Field Reduction

The interpolation of the data to provide a base reference for seeing the effect of the electrojet was done by the procedure given by Cain et al (1967). Its use for internal field definition was discussed by Cain (1971). The character of the jet signature in the residuals $\Delta F = F$ (observed) - F (model) does not change significantly from model to model so long as one uses an expansion of the internal spherical harmonic function V of about degree n = 9-13* corresponding to about

*Benkova, Dolginov, and Simonenko (1972) have pointed out that the spatial wavelengths of the ΔF field probably contain a spectrum different from those of the potential function V ($\overline{F} = -\nabla V$) since the F computation involves squares of the components. Although the mathematics of this dependence has not yet been worked out, we estimate that the "smearing" of harmonics from V to F is confined to a few orders.

OGO –4 & –6 EQUATORIAL CROSSINGS

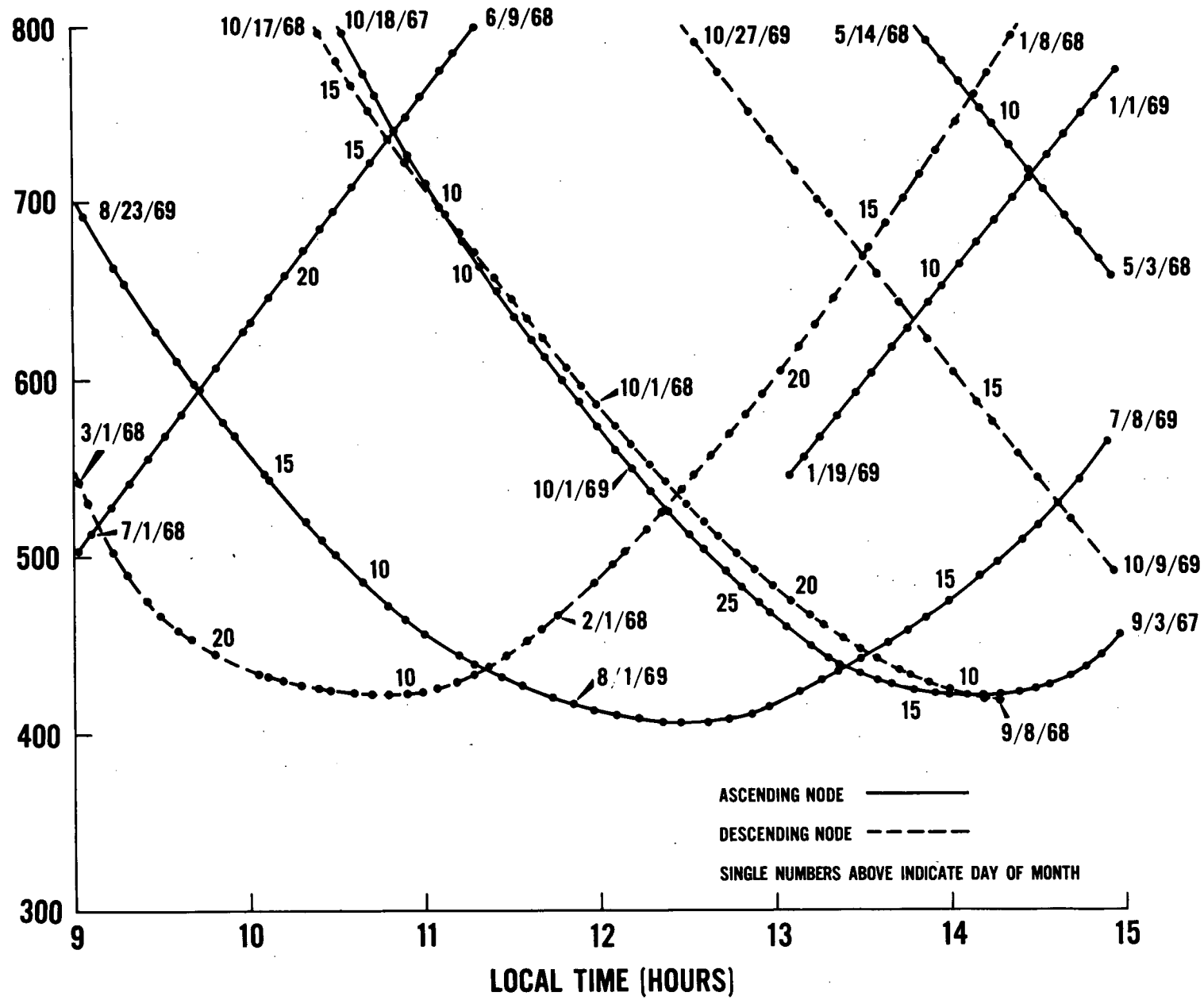

Figure 3

40° in the scale size of the F field (compare figures 6a and 6b). This fitting scheme has been applied to the data for very quiet intervals emphasizing data taken at local times outside the 9-15^h range where the electrojet is strongest.

The results of such a model give oscillations in the ΔF of the order of 3γ with wavelengths perhaps 35°. These oscillations due to the analysis are considered spurious but have not yet been removed since they are of the same order as the time variations and deviations due to orbital error. Also, they begin to approach the instrumental uncertainity of $1\text{-}2\gamma$.

Ideal Data

The presence of numerous complex magnetic variations in the data often make it difficult to precisely identify the effect of the electrojet itself. Figure 4 shows an example of a ΔF curve for both a day and night pass across the same longitudes. It is clear that while there is about a 10γ shift between these two curves, undoubtedly due to variations in magnetospheric contributions, the background ($\sim 2\gamma$) oscillations are similar. The electrojet signature in the daytime curve is extremely clear.

Magnetic Anomalies

For the purposes of this paper we will use the term "magnetic anomalies" to mean variations of wavelength somewhat shorter than the 30-35° ΔF oscillations which are residual from the field fitting. That is, they would be variations of a wavelength comparable to that of the electrojet signature and thus constitute interference with interpretations of the jet.

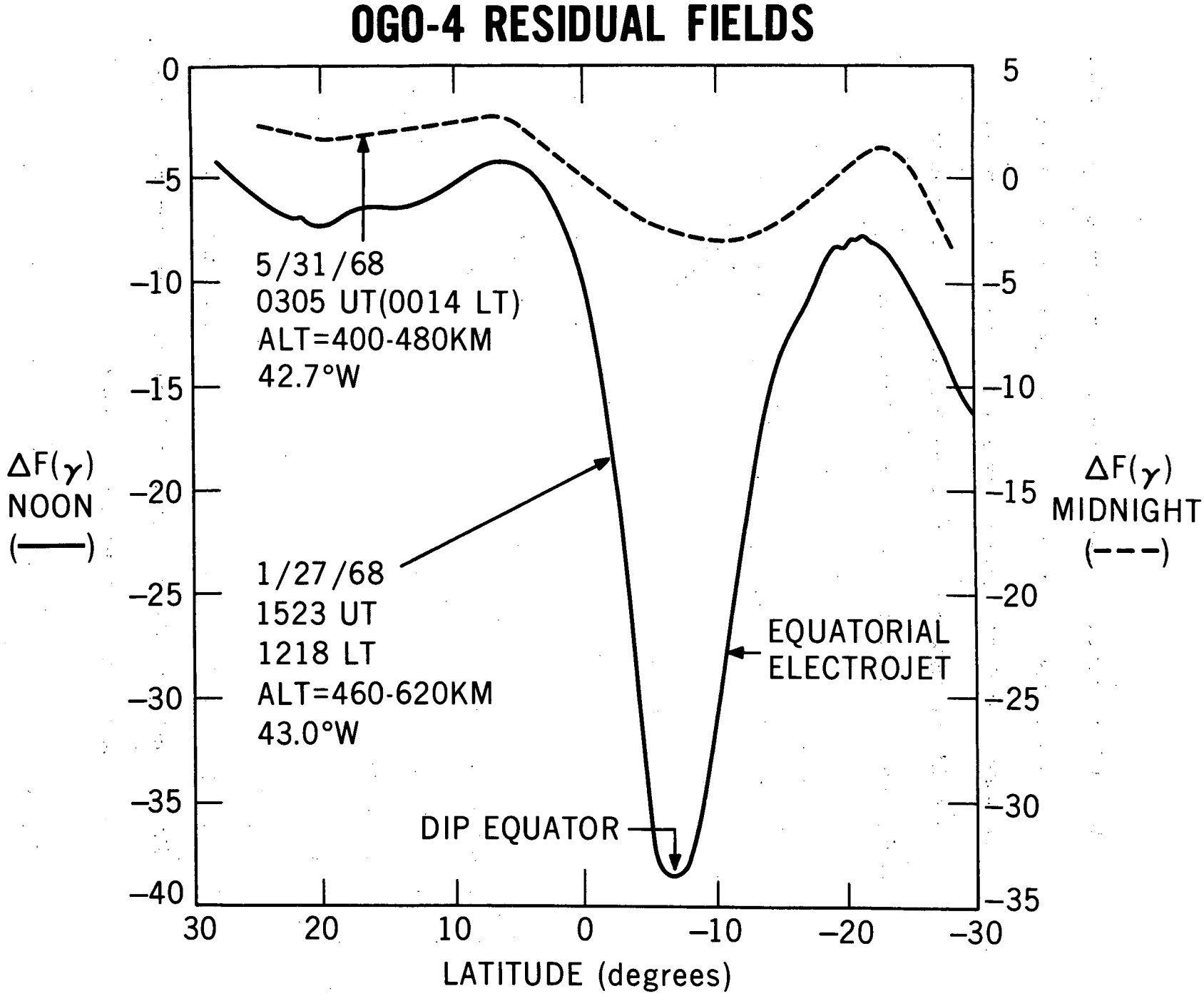
OGO-4 RESIDUAL FIELDS
ΔF(γ) NOON (——)
ΔF(γ) MIDNIGHT (– – –)
0
-5
-10
-15
-20
-25
-30
-35
-40
5
0
-5
-10
-15
-20
-25
-30
-35
5/31/68
0305 UT(0014 LT)
ALT=400-480KM
42.7°W
1/27/68
1523 UT
1218 LT
ALT=460-620KM
43.0°W
EQUATORIAL ELECTROJET
DIP EQUATOR
30
20
10
0
-10
-20
-30
LATITUDE (degrees)

Figure 4

Figure 5 is another example where a day pass can be compared approximately with an evening traversal over the same longitude. The troughs near -8° and -26° probably constitute what might be referred to as "anomalies." Since the two passes differ in altitude by 50-100 km and longitude by about 20 km, one would not expect an exact match from a fixed surface pattern.

Magnetic Disturbance

The affect of magnetic disturbance has not yet been studied in detail. However, we can show examples where there appears to be normal negative, or even positive jet signature in the data.

Figure 6a is a traversal over India where there is a negative field due to external sources and a typical electrojet signature. Plotted for reference is a nighttime pass at a lower altitude for the same longitude. The decrease of the field near the equator is of the characteristic form from the (asymmetric) ring current or DS variation as studied by Langel and Sweeney (1971). We note in Figure 6b a plot of the same pass which has been referenced to another field model containing fewer coefficients (Cain and Cain, 1971). As can be seen here, the only degradation by this slightly less accurate model is that the estimated amplitude is slightly smaller (12γ instead of 15) and the shape of the background curve due to the DS change is shifted south in latitude.

Figure 7 is a traversal during the recovery phase of a storm at which time Sugiura and Poros (1971) give a Dst value of -76γ. It appears that, if one smooths

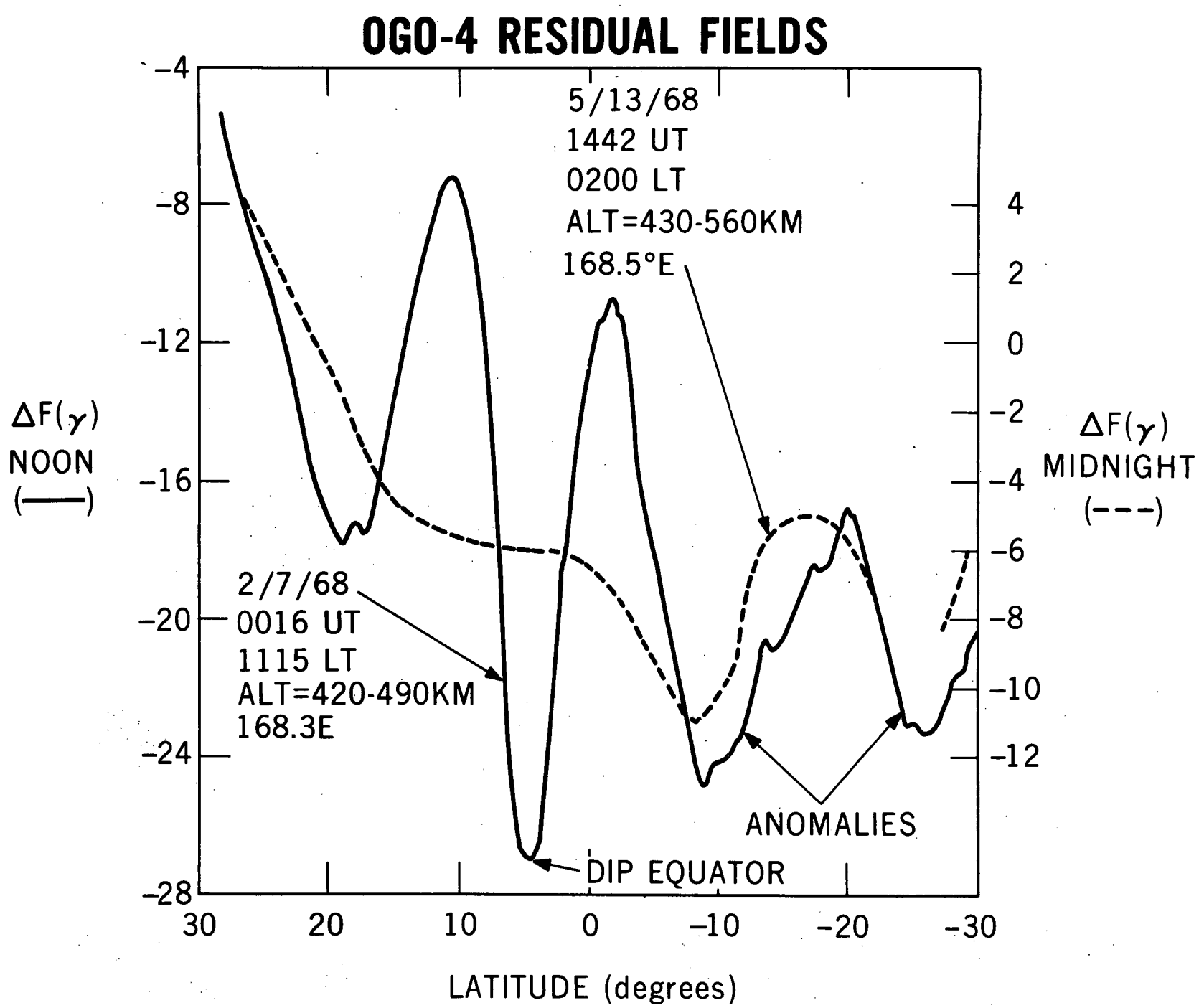
OGO-4 RESIDUAL FIELDS
5/13/68
1442 UT
0200 LT
ALT=430-560KM
168.5°E
2/7/68
0016 UT
1115 LT
ALT=420-490KM
168.3E
ANOMALIES
DIP EQUATOR
ΔF(γ)
NOON
(——)
ΔF(γ)
MIDNIGHT
(---)
-4
-8
-12
-16
-20
-24
-28
4
2
0
-2
-4
-6
-8
-10
-12
30
20
10
0
-10
-20
-30
LATITUDE (degrees)

Figure 5

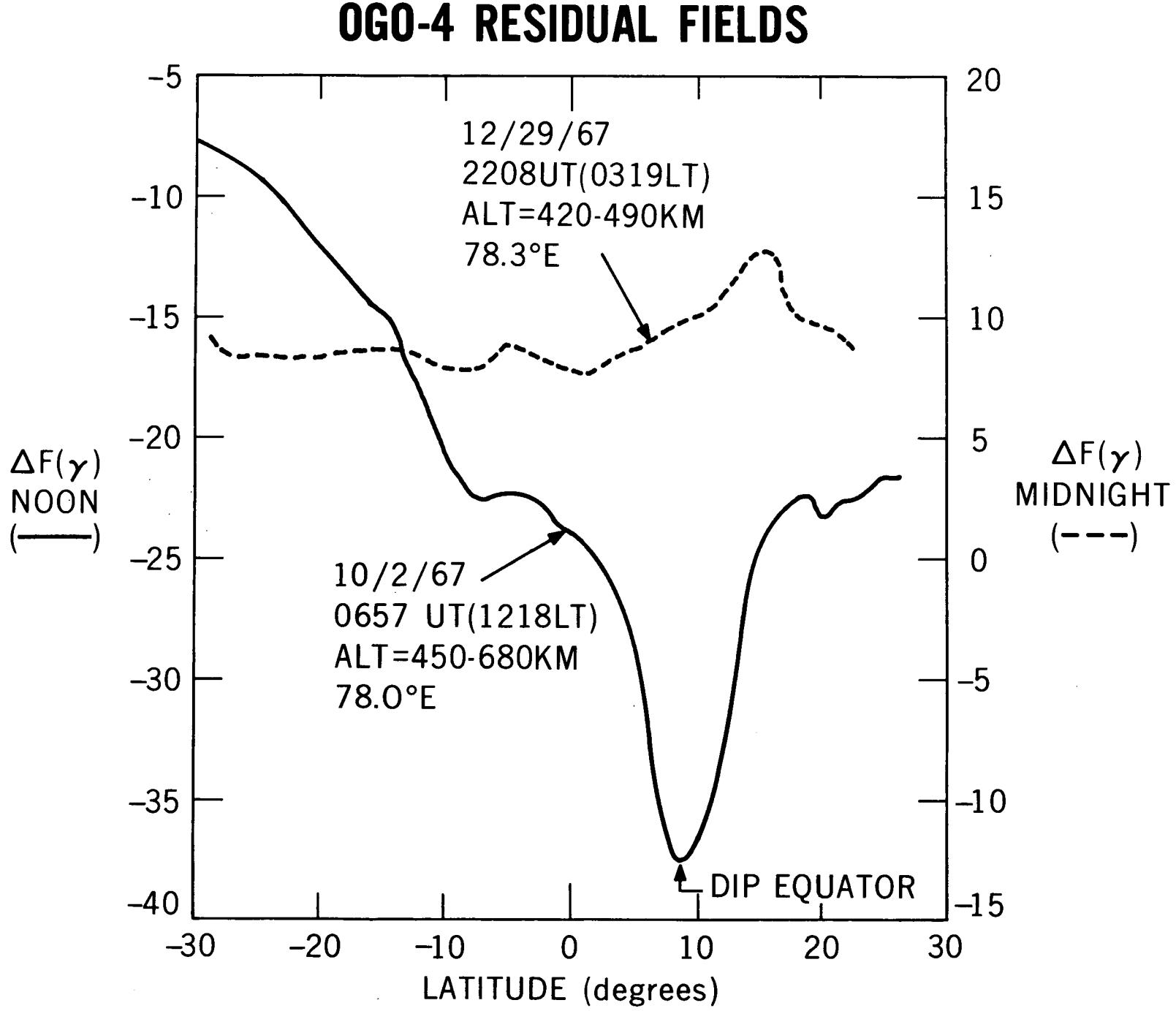
OGO-4 RESIDUAL FIELDS
12/29/67
2208UT(0319LT)
ALT=420-490KM
78.3°E
10/2/67
0657 UT(1218LT)
ALT=450-680KM
78.0°E
DIP EQUATOR
ΔF(γ)
NOON
(——)
ΔF(γ)
MIDNIGHT
(---)
LATITUDE (degrees)
-5
-10
-15
-20
-25
-30
-35
-40
20
15
10
5
0
-5
-10
-15
-30
-20
-10
0
10
20
30

Figure 6a

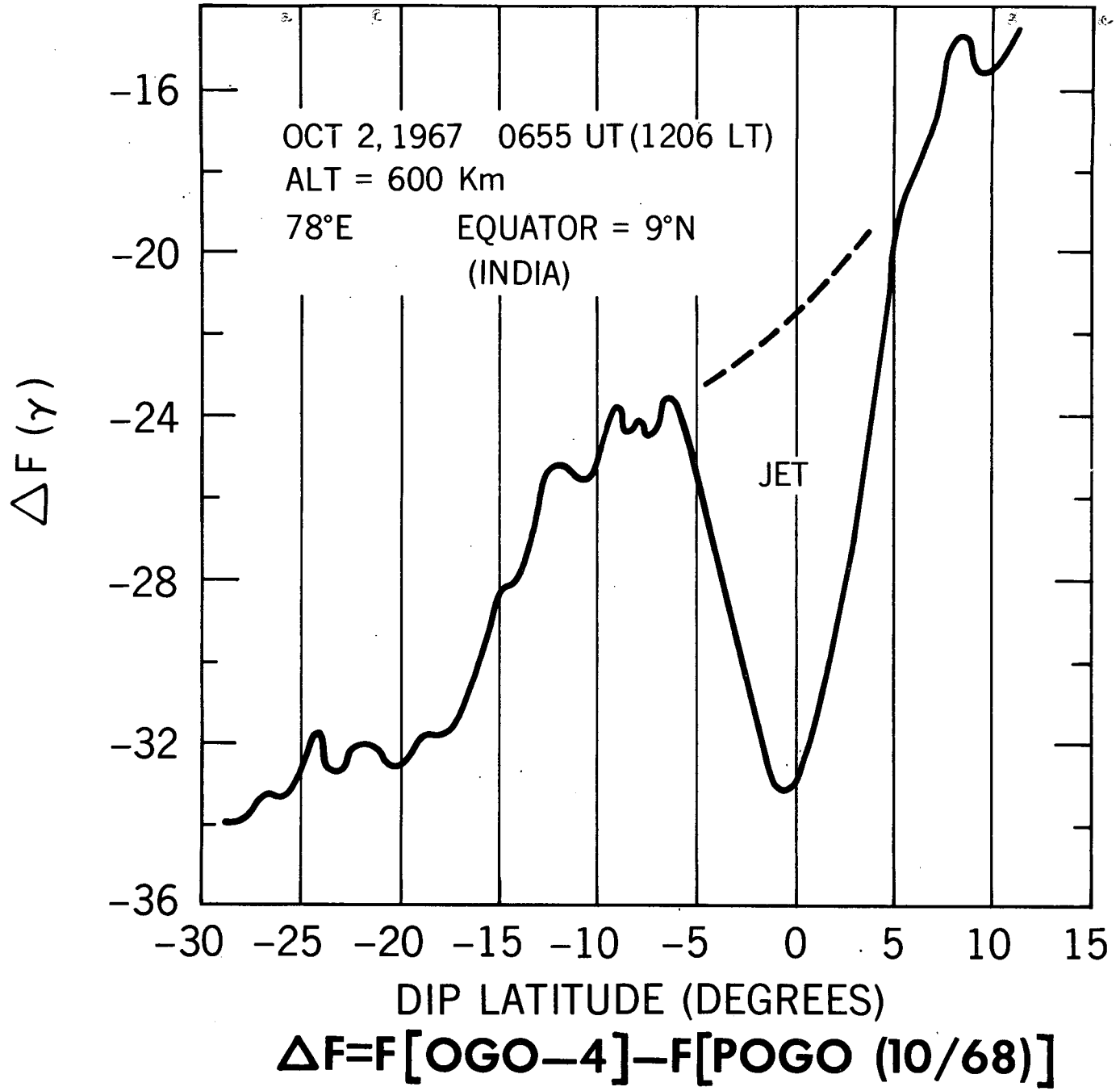
OCT 2, 1967 0655 UT (1206 LT)
ALT = 600 Km
78°E EQUATOR = 9°N
(INDIA)
JET
ΔF (γ)
-16
-20
-24
-28
-32
-36
-30 -25 -20 -15 -10 -5 0 5 10 15
DIP LATITUDE (DEGREES)
ΔF=F[OGO-4]-F[POGO (10/68)]

Figure 6b

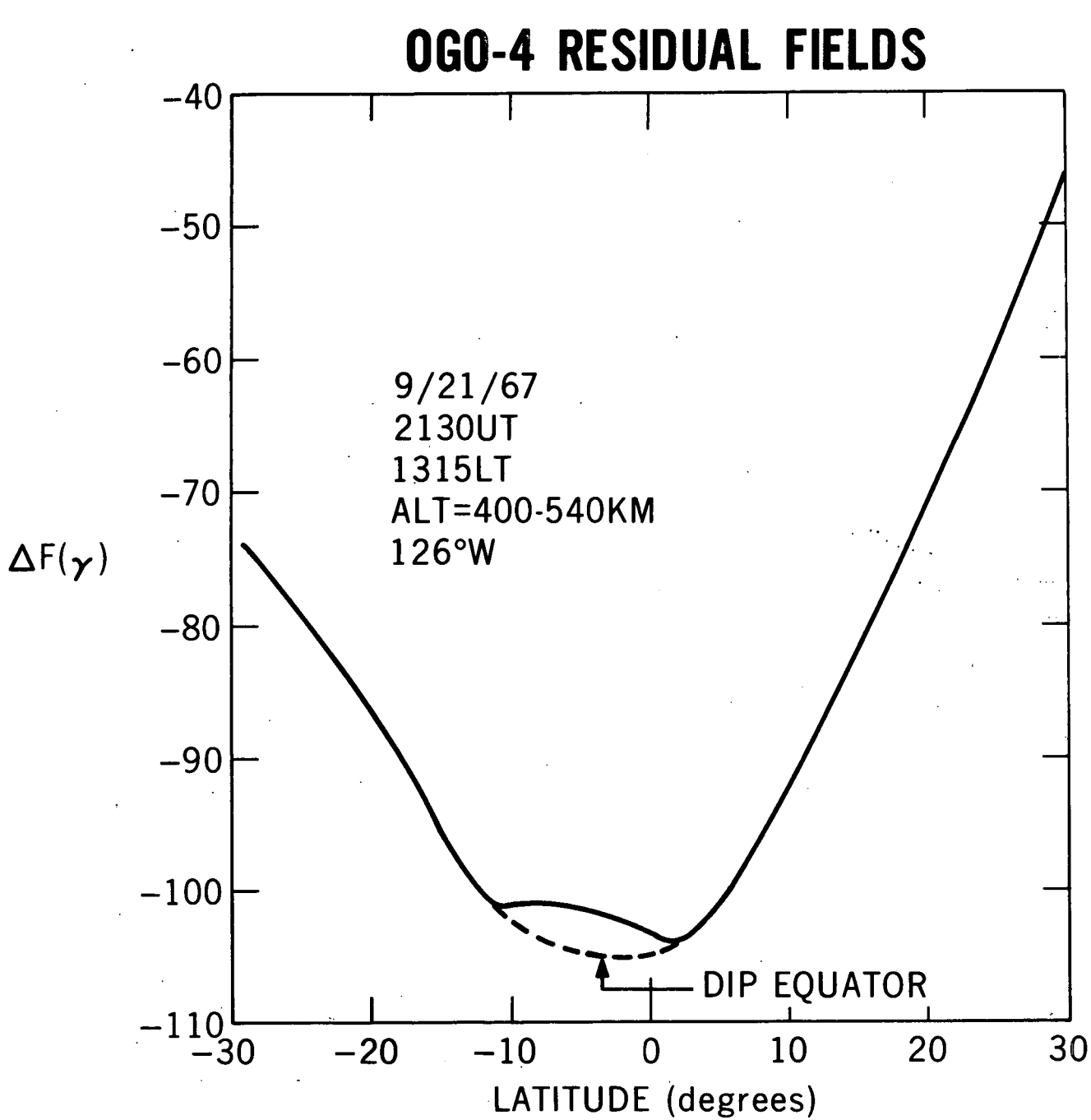
OGO-4 RESIDUAL FIELDS
-40
-50
-60
-70
-80
-90
-100
-110
ΔF(γ)
9/21/67
2130UT
1315LT
ALT=400-540KM
126°W
DIP EQUATOR
-30
-20
-10
0
10
20
30
LATITUDE (degrees)

Figure 7

the "DS" curve in latitude, one could say that the electrojet was a positive 5 γ. This reversal might be seen in connection with an auroral zone negative bay if some observing station were suitably located. Estimating the relative effect at POGO altitudes compared with that at a surface observatory under the jet would help to establish whether the ground bay could arise from currents feeding into the magnetosphere from the auroral zone. Another case of an apparent positive effect near the equator is shown in Figure 8. Here the difference from the dotted line projection for Dst gives a positive 8 γ at the dip equator. Dst is holding fairly constant at about -30γ for several hours on each side of this pass. This is verified by an inspection of Honolulu observatory data which is essentially flat over this interval. Surprisingly, College also shows little change. As seen in Figure 9 there occurred a very small bay with a trough of only 117γ about 2245 U.T., but the H trace was normal by 2330. It would thus seem that such apparent positive jet signatures, which seem to occur when the field is depressed, are due to inductive effects caused by a change in the rate of flux across the jet in conjunction with the reaction of the conducting earth. At this point we do not clearly see how such positive effects could result unless the conductor were above the spacecraft.

Other examples possibly involving inductive changes are given in the next section.

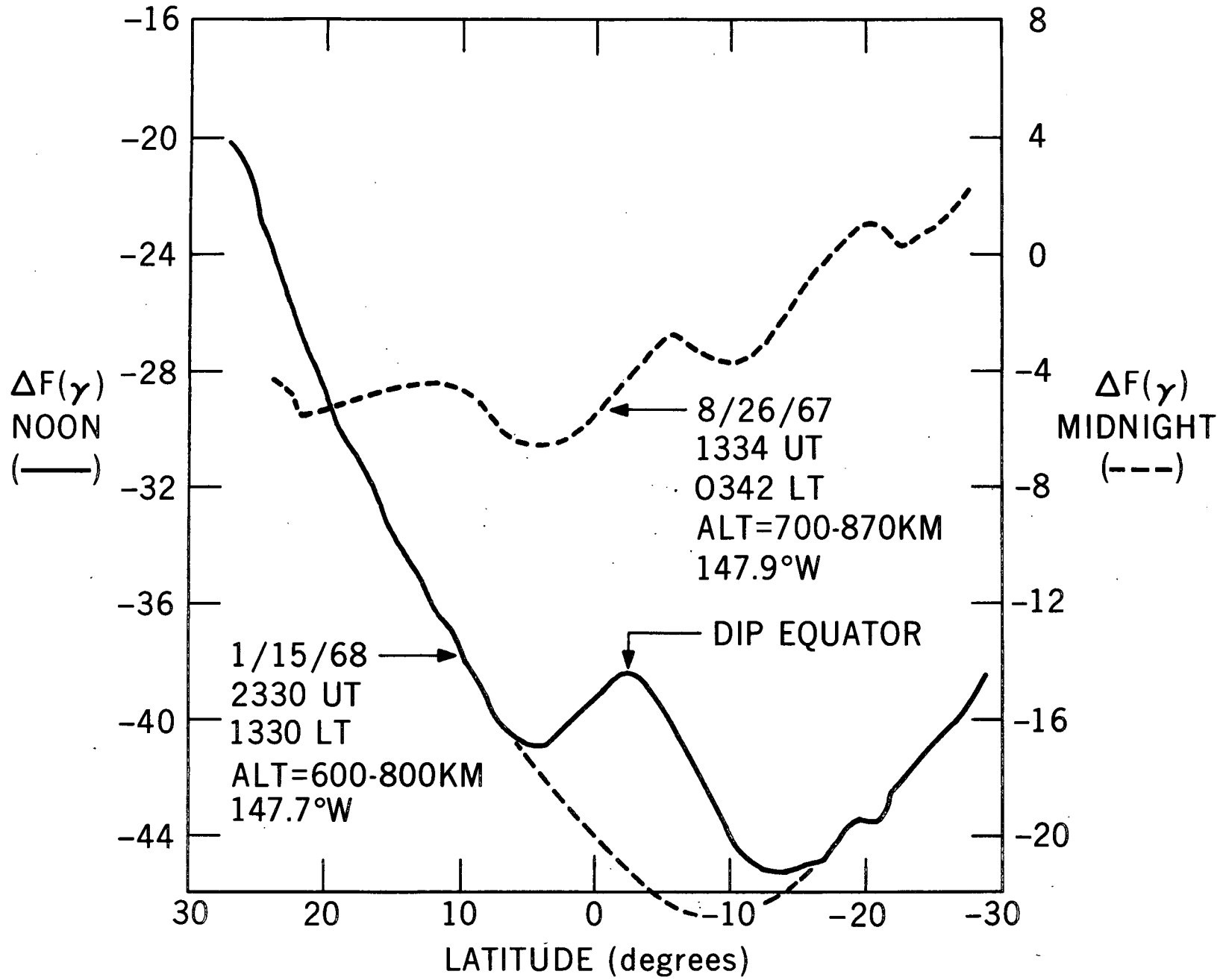
OGO-4 RESIDUAL FIELDS
ΔF(γ) NOON (——)
ΔF(γ) MIDNIGHT (---)
8/26/67
1334 UT
0342 LT
ALT=700-870KM
147.9°W
1/15/68
2330 UT
1330 LT
ALT=600-800KM
147.7°W
DIP EQUATOR
LATITUDE (degrees)
-16
-20
-24
-28
-32
-36
-40
-44
8
4
0
-4
-8
-12
-16
-20
30
20
10
0
-10
-20
-30

Figure 8

D,H,Z MAGNETOGRAM FOR COLLEGE, ALASKA

JAN. 15, 1968

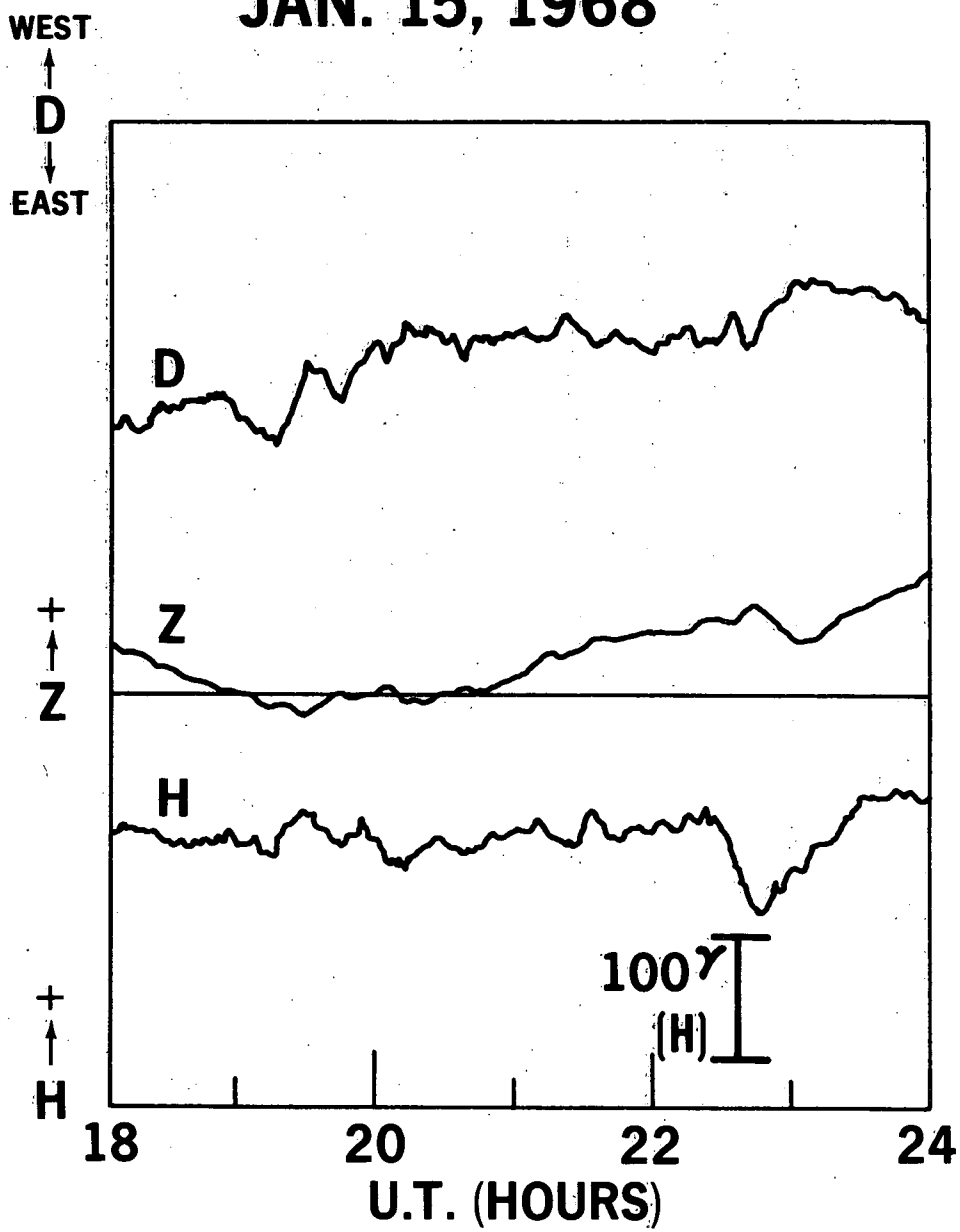

Figure 9

Odd Cases

The ΔF variations to the side of the dip equator frequently show oscillations of significant amplitude which are yet to be interpreted. Various possibilities present themselves including small Sq-type vortices, return current flow from the jet, temporal variations, etc. Our purpose here is merely to present a few of these for later evaluation and interpretation.

One class of cases is illustrated in Figure 10 which shows a negative feature only 13° south of the dip equator with amplitude greater than that of the jet. Plotted on this graph is the curve from a nighttime pass over the same region to show that the effect is not due to a magnetic anomaly.

Figure 11 is another case of such a feature, also over the Pacific, some 13° south of the jet signature. This case is clearly associated with a magnetic disturbance which is verified by a Dst level of $-38\,\gamma$ (Sugiura and Poros, 1971). If one were to allow for a Dst curve as shown by the dotted line, the resulting electrojet signature would have high positive shoulders not seen in the model given in Figure 1. Similar positive values are also implied in Figure 5 although not in Figure 4.

Figure 12 gives an example where a DS curve of about $-40\,\gamma$ [Sugiura and Poros (1971) give $-37\,\gamma$ at 23^h on 9/13/67] contains a positive effect within 15° of the magnetic equator but with a slight electrojet-like trough in the middle 6°.

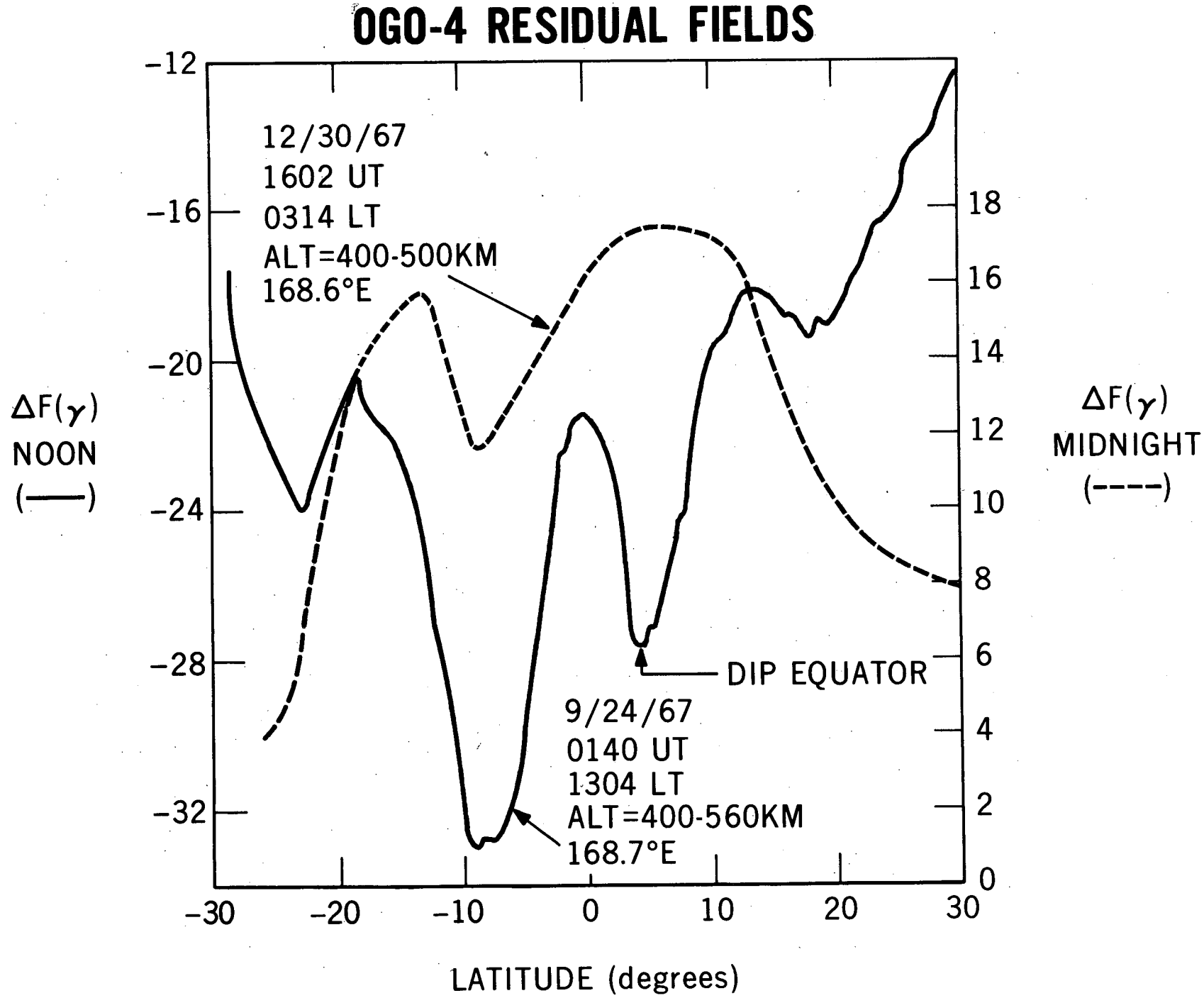
OGO-4 RESIDUAL FIELDS
12/30/67
1602 UT
0314 LT
ALT=400-500KM
168.6°E
9/24/67
0140 UT
1304 LT
ALT=400-560KM
168.7°E
DIP EQUATOR
ΔF(γ)
NOON
(——)
ΔF(γ)
MIDNIGHT
(----)
-12
-16
-20
-24
-28
-32
18
16
14
12
10
8
6
4
2
0
-30
-20
-10
0
10
20
30
LATITUDE (degrees)

Figure 10

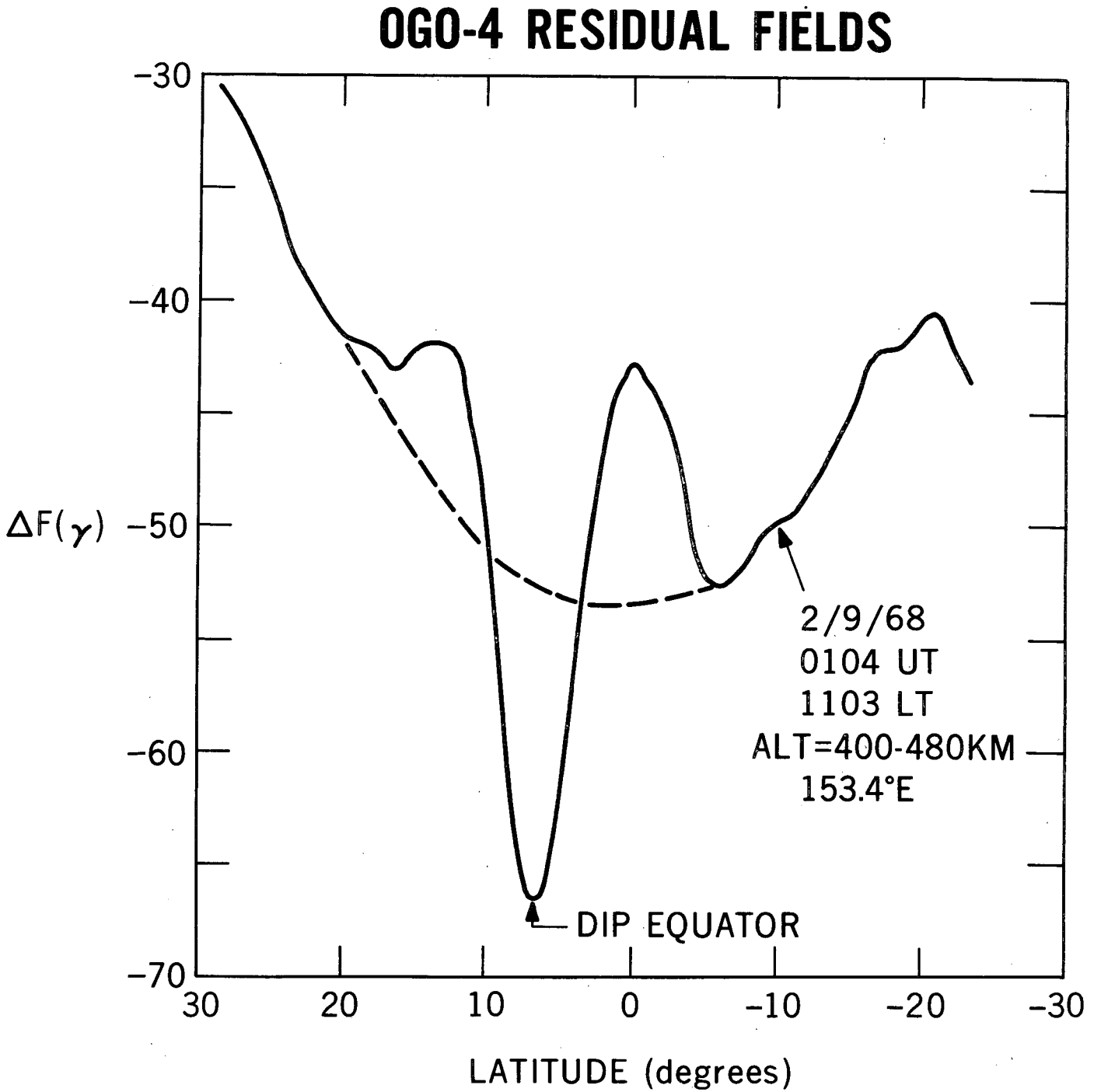
OGO-4 RESIDUAL FIELDS
-30
-40
-50
-60
-70
ΔF(γ)
30
20
10
0
-10
-20
-30
LATITUDE (degrees)
2/9/68
0104 UT
1103 LT
ALT=400-480KM
153.4°E
DIP EQUATOR

Figure 11

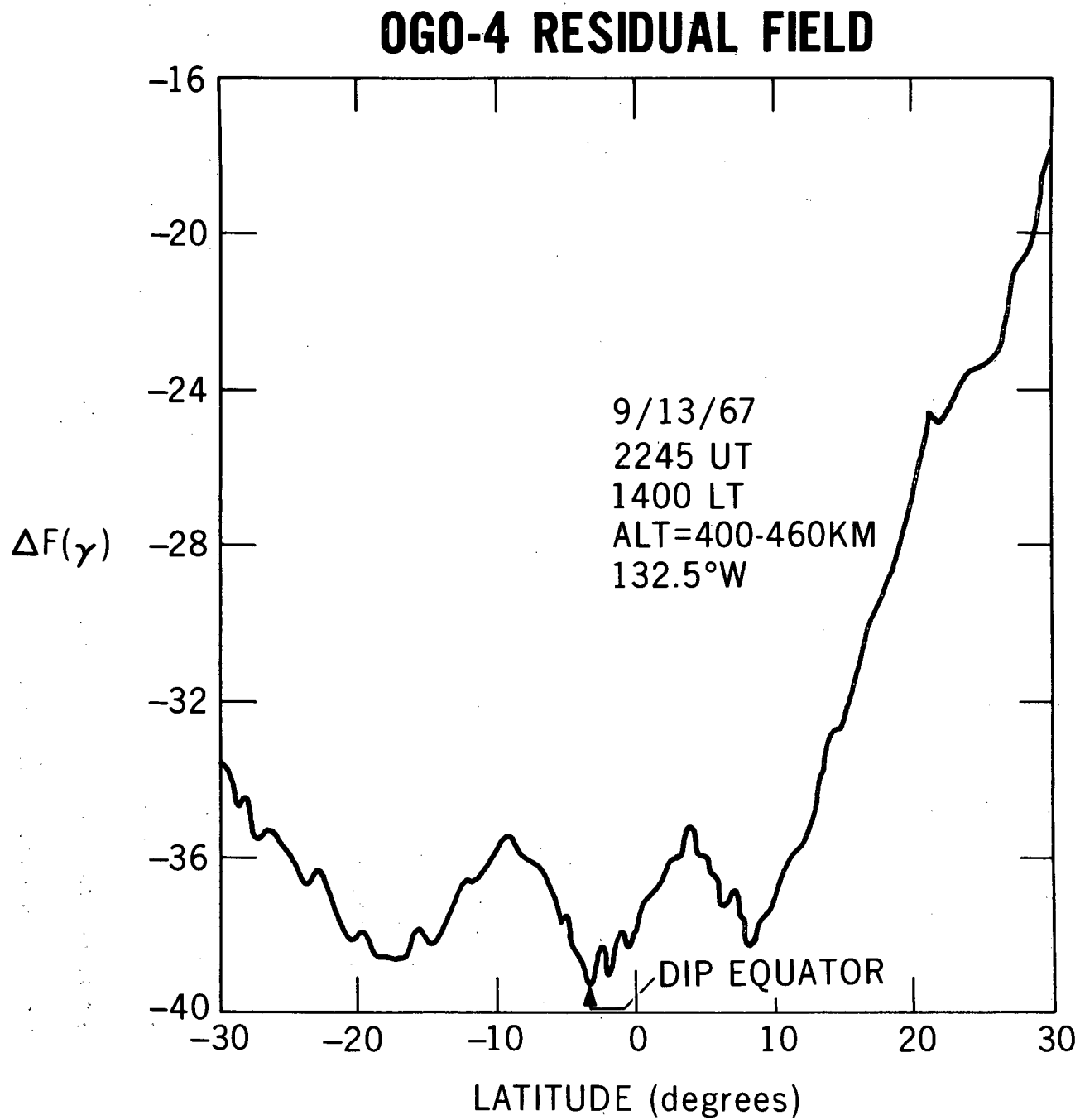
OGO-4 RESIDUAL FIELD
ΔF(γ)
-16
-20
-24
-28
-32
-36
-40
9/13/67
2245 UT
1400 LT
ALT=400-460KM
132.5°W
DIP EQUATOR
-30
-20
-10
0
10
20
30
LATITUDE (degrees)

Figure 12

One traversal where the degree of DS appears to be less but the curve is complex is given in Figure 13. Here the values are hovering close to zero but there are relatively large negative values off to the side about 15°.

Westward Electrojet

Bartels and Johnston (1940) analyzed the lunar affect at Huancayo and found a modulation of Sq which could on occasion reverse the electrojet. This was almost always at times during the day but not near noon. Mayaud (1967) and Fambitakoye (1971) have detected similar instances of reversed jet but without association with lunar phase.

We have already seen examples during magnetic disturbance where it appears that a westward jet may occur. There are also passes such as that shown in Figure 14 where there is a fairly definite positive signature at the dip equator. Other passes, such as that of Figure 15, show no very sharp jet, but instead only a general rise near the dip equator with minima some 20-25° on each side which could perhaps be considered as being due to Sq centers.

DATA TABULATION

The two appendices give a tabulation of all of the traversals of OGO-4 and OGO-6 over the equator for local times and altitudes where the electrojet signature is strongest. These data were examined for qualitative estimates of the jet amplitude and latitude of minima. The results at this stage cannot be regarded as definitive since there is some uncertainty as to the zero level from

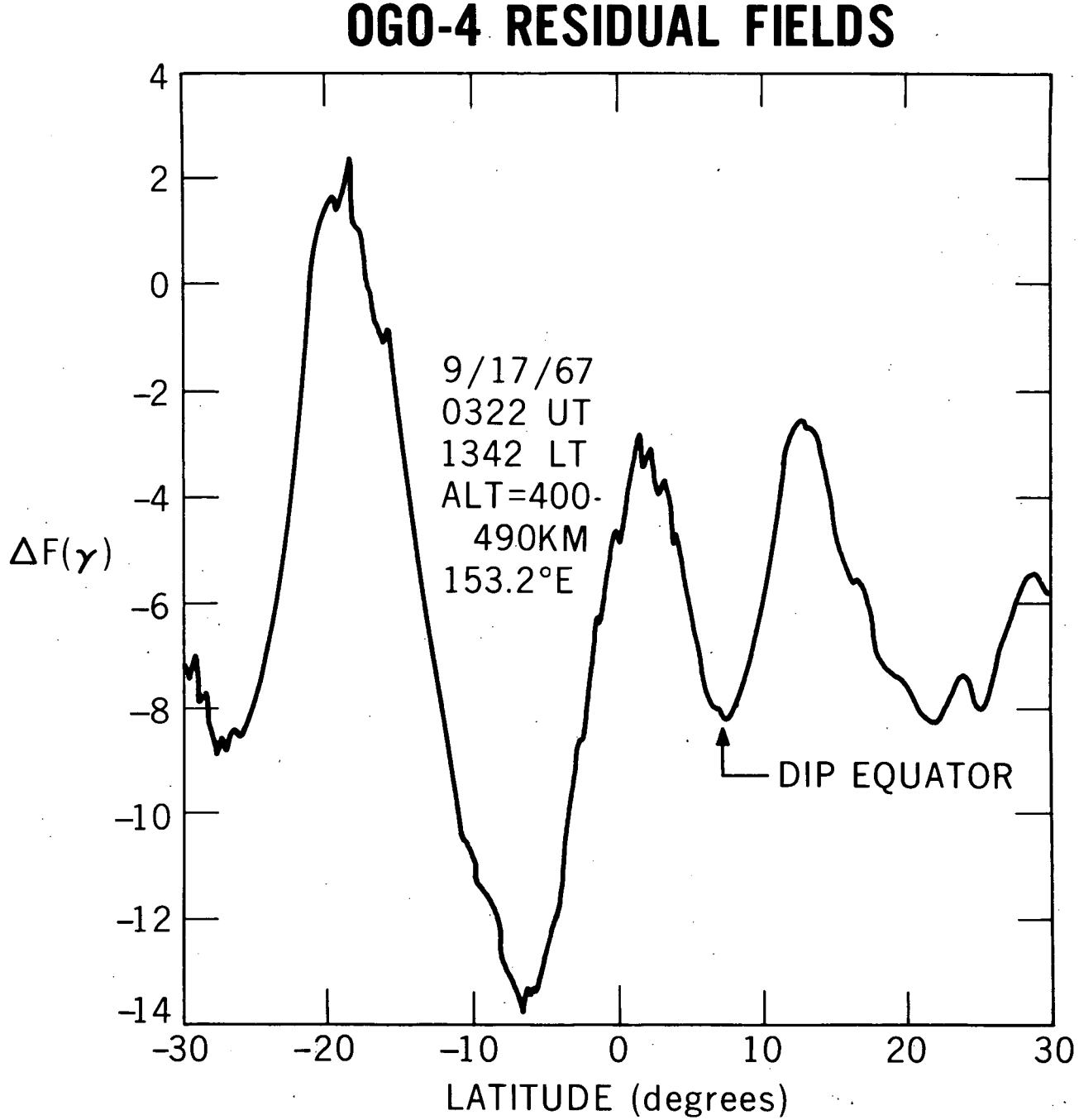
OGO-4 RESIDUAL FIELDS
4
2
0
-2
-4
-6
-8
-10
-12
-14
ΔF(γ)
9/17/67
0322 UT
1342 LT
ALT=400-
490KM
153.2°E
DIP EQUATOR
-30
-20
-10
0
10
20
30
LATITUDE (degrees)

Figure 13

OGO-4(NOON) AND OGO-6(MIDNIGHT) RESIDUAL FIELDS

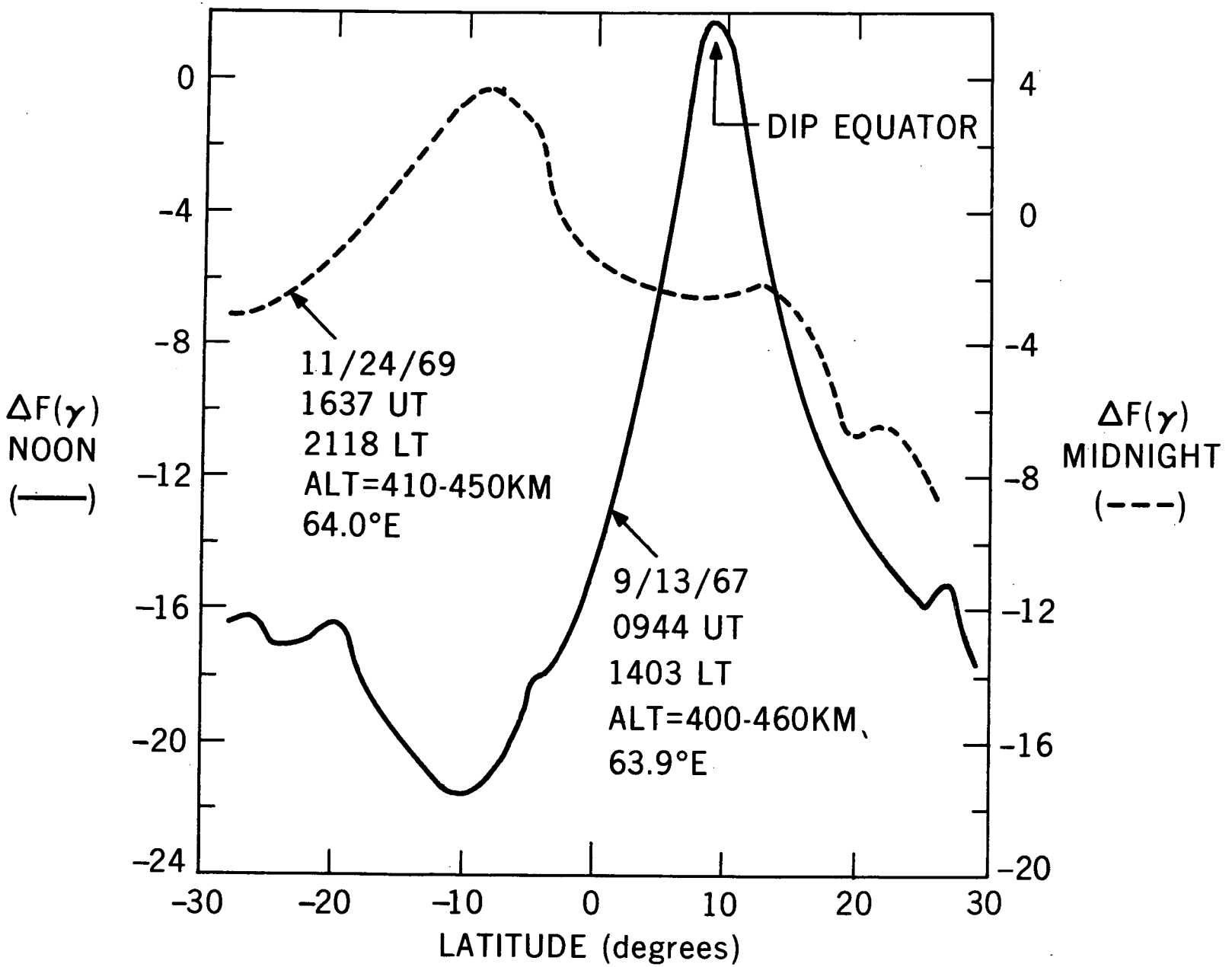

Figure 14

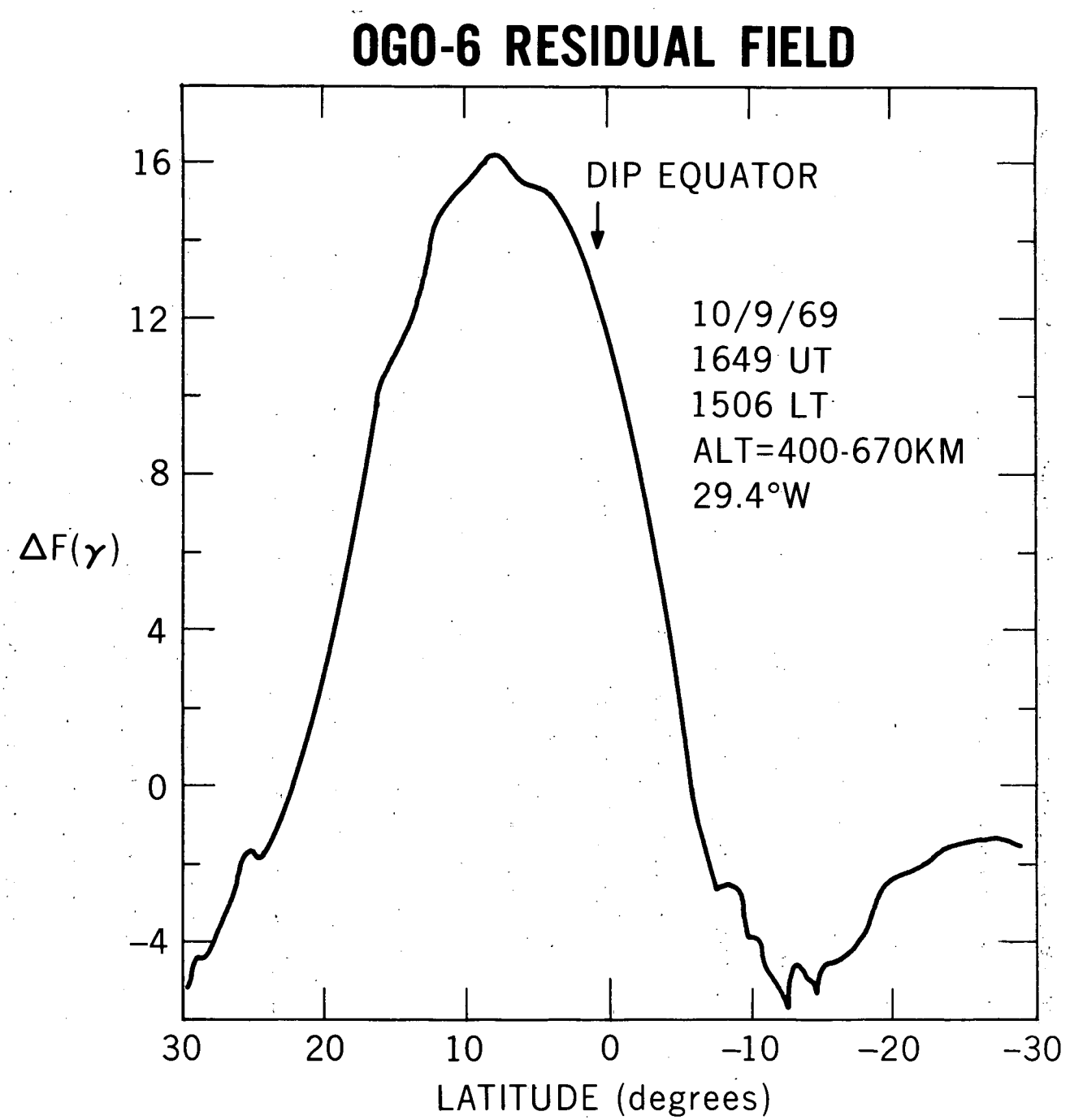
OGO-6 RESIDUAL FIELD
DIP EQUATOR
10/9/69
1649 UT
1506 LT
ALT=400-670KM
29.4°W
ΔF(γ)
16
12
8
4
0
-4
30
20
10
0
-10
-20
-30
LATITUDE (degrees)

Figure 15

which the amplitudes were scaled. This uncertainty ("ERR") was generally overestimated. The background level would be given by the sum of the numbers "MIN. VAL." and "AMP." The minimum ΔF value was listed for each electrojet curve since it could usually be read to a precision of better than a gamma whereas the reference level was more subject to interpretation.

Reduction to 400 km

The amplitude values were all "reduced" to a 400 km level, near perigee, in order to obtain values that might be compared. A scatter diagram was first attempted plotting the amplitudes against altitude to see whether a functional relation could be derived statistically. This was found not to be possible due to the very large variability of the data at all altitudes.

As a first approximation we have chosen to make the reduction using a uniform band current model with a width of 550 km (5° latitude) and an image current depth of 500 km. As shown in Figure 16, the amplification factors to adjust these data to 400 km are slightly smaller for this model than for a line current model. As expected, a wider current attenuates less with altitude.

The ratios of Figure 16 are probably more sensitive to the relative amount of induced current. For example, in the infinite line current model the ratio for an 800 km altitude is $R = 7\ (800 + d)/3\ (400 + d)$. Thus, if the conducting sheet were near the earth's surface, then $R = 4$, whereas if it is moved to ∞, $R = 7/3 = 2.3$.

AMPLITUDE FACTORS USED TO NORMALIZE MEASURED ELECTROJET AMPLITUDES TO 400 KILOMETERS

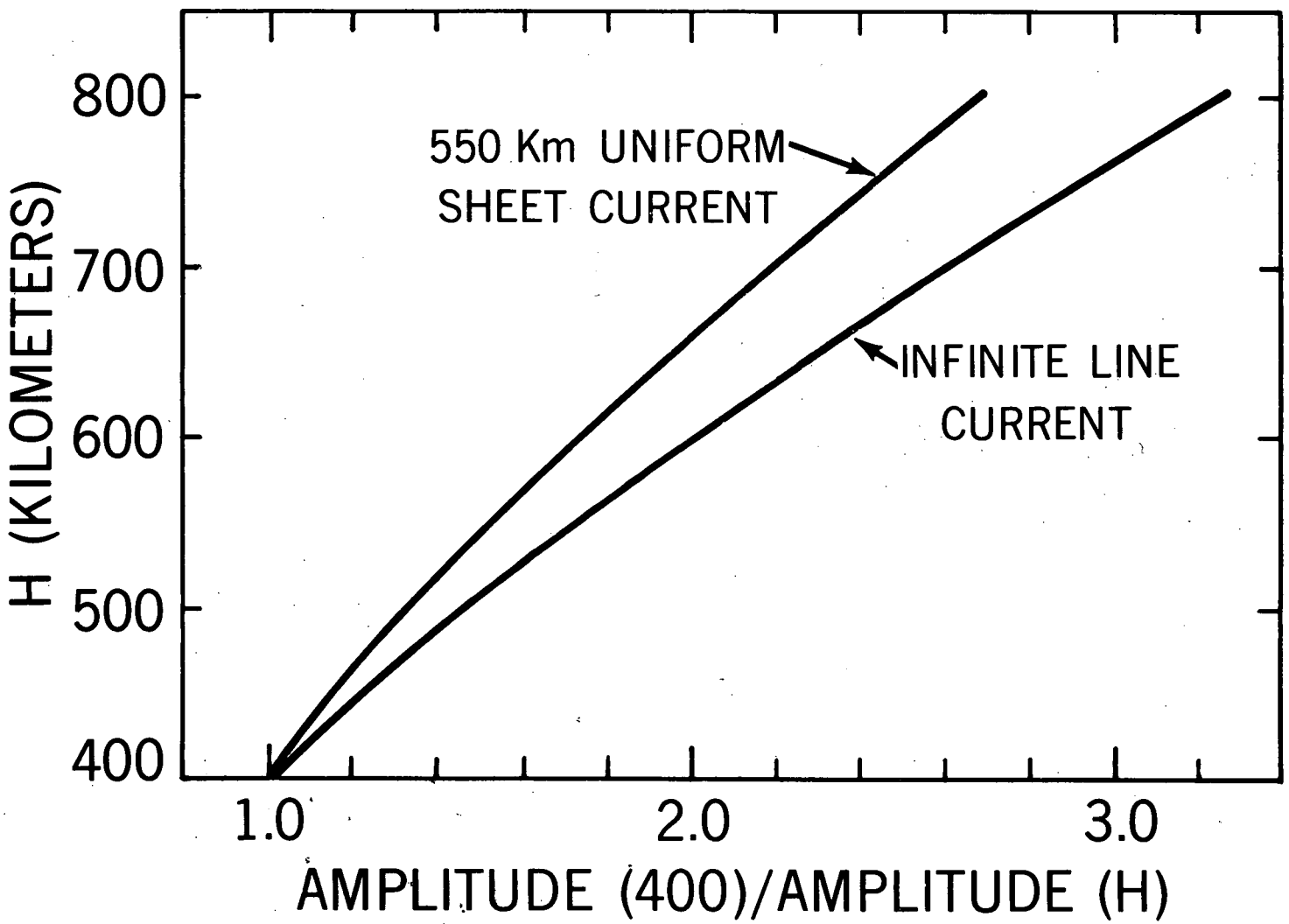

Figure 16

The errors and amplitudes are both multiplied by this factor according to their altitudes and the data recorded in the appendix under the heading "AMP. 400 KM" and corresponding "ERR".

EVALUATIONS OF DATA

No very sophisticated evaluations have yet been attempted on these data since these are planned using the actual data positions on each pass in conjunction with the real field and a more realistic model of the jet. However, some studies have been done on the data given in the appendices and the results compared with theory.

Jet Position

We have averaged the position of the minima given in the appendices by longitude and illustrated the result in Figure 17 and Table 1. The asterisks give the means of the positions and the error bars the sigmas. Also plotted on this curve is the position of the dip equator from the IGRF at 100 km altitude and also at 2.5 earth radii corresponding to the center of the ring current effect given by Sugiura (1972).

The question then arises that if the averaged values are correct, how would they be related to the average axis or center position of the jet. Since the observation is one of total field variation it could be represented by a perturbation from the main field

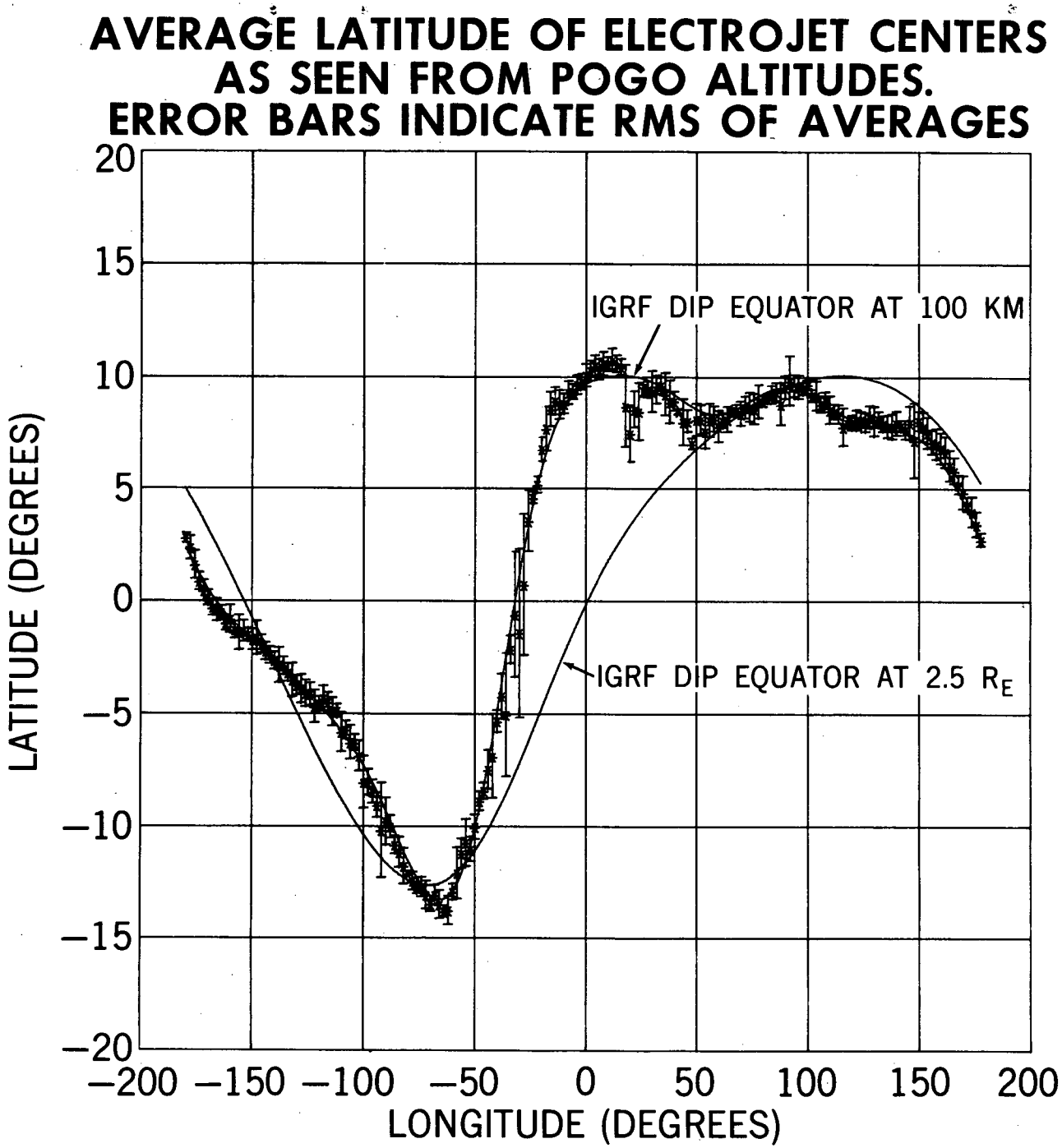
AVERAGE LATITUDE OF ELECTROJET CENTERS
AS SEEN FROM POGO ALTITUDES.
ERROR BARS INDICATE RMS OF AVERAGES
IGRF DIP EQUATOR AT 100 KM
IGRF DIP EQUATOR AT 2.5 R_E
LATITUDE (DEGREES)
LONGITUDE (DEGREES)
20
15
10
5
0
−5
−10
−15
−20
−200
−150
−100
−50
0
50
100
150
200

Figure 17

TABLE 1. AVERAGE LATITUDES OF APPARENT ELECTROJET MINIMUMS OVER 2 DEGREE LONGITUDE BLOCKS

LONGITUDE	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	LATITUDE
-180	2.8±0.2	-90	-9.8±1.1	0	10.1±0.5	90	9.5±0.5
-178	2.3±0.5	-88	-10.0±0.5	2	10.3±0.4	92	9.8±1.1
-176	1.6±0.6	-86	-10.9±0.4	4	10.5±0.5	94	9.6±0.5
-174	0.8±0.4	-84	-11.2±0.7	6	10.3±0.5	96	9.5±0.5
-172	0.4±0.5	-82	-11.8±0.8	8	10.6±0.5	98	9.5±0.3
-170	0.1±0.3	-80	-12.1±0.1	10	10.6±0.3	100	9.7±0.2
-168	-0.3±0.3	-78	-12.5±0.4	12	10.8±0.5	102	9.2±0.3
-166	-0.4±0.5	-76	-12.7±0.4	14	10.6±0.4	104	9.2±0.7
-164	-0.5±0.3	-74	-12.7±0.4	16	10.4±0.4	106	8.8±0.4
-162	-1.0±0.3	-72	-13.1±0.6	18	8.7±1.8	108	9.0±0.4
-160	-0.8±0.6	-70	-13.5±0.3	20	7.4±1.3	110	8.5±0.6
-158	-1.3±0.4	-68	-13.1±0.4	22	8.5±0.8	112	8.4±0.3
-156	-1.4±0.8	-66	-13.5±0.6	24	8.4±1.3	114	8.3±0.4
-154	-1.4±0.5	-64	-13.8±0.2	26	9.4±0.3	116	7.7±0.9
-152	-1.5±0.3	-62	-13.8±0.6	28	9.4±0.4	118	7.9±0.3
-150	-1.8±0.5	-60	-12.9±0.4	30	9.3±0.9	120	7.9±0.3
-148	-1.7±0.7	-58	-12.1±1.2	32	9.4±0.6	122	8.1±0.5
-146	-2.0±0.4	-56	-11.2±0.7	34	9.6±0.4	124	8.1±0.4
-144	-2.3±0.4	-54	-10.7±1.1	36	9.2±1.0	126	7.9±0.4
-142	-2.5±0.4	-52	-11.0±0.5	38	8.9±1.0	128	8.2±0.5
-140	-2.7±0.4	-50	-10.0±0.6	40	8.9±0.4	130	8.0±0.7
-138	-2.9±0.8	-48	-8.9±0.4	42	8.4±0.1	132	8.1±0.3
-136	-2.9±0.4	-46	-8.4±0.4	44	8.0±1.0	134	7.9±0.4
-134	-3.2±0.4	-44	-7.4±0.9	46	8.0±0.5	136	7.8±0.5
-132	-3.5±0.7	-42	-6.9±1.9	48	7.0±0.2	138	7.8±0.6
-130	-3.8±0.4	-40	-5.3±0.5	50	8.1±0.7	140	7.9±0.5
-128	-3.9±0.6	-38	-4.2±1.0	52	8.1±0.7	142	7.8±0.2
-126	-4.1±0.6	-36	-5.0±2.7	54	7.5±0.8	144	7.6±0.4
-124	-4.2±0.5	-34	-2.2±0.6	56	8.0±0.8	146	7.9±0.8
-122	-4.7±0.7	-32	-0.6±2.8	58	8.1±0.6	148	7.1±1.7
-120	-4.6±0.3	-30	-1.4±3.8	60	7.8±0.7	150	8.0±0.4
-118	-4.4±0.6	-28	0.7±3.1	62	8.0±0.3	152	7.7±0.7
-116	-4.5±0.4	-26	3.6±1.4	64	8.1±0.6	154	7.5±0.7
-114	-4.9±0.6	-24	4.6±0.3	66	8.4±0.2	156	7.1±0.5
-112	-4.9±0.3	-22	5.2±0.4	68	8.5±0.3	158	7.0±0.7
-110	-5.8±0.9	-20	6.7±0.5	70	8.3±0.6	160	6.8±0.7
-108	-5.7±0.4	-18	7.7±1.0	72	8.6±0.5	162	6.6±0.7
-106	-6.3±0.7	-16	8.5±0.8	74	8.6±0.7	164	6.0±0.7
-104	-6.3±0.3	-14	8.9±0.6	76	8.6±0.7	166	5.8±0.6
-102	-6.9±0.7	-12	8.7±0.6	78	8.9±0.7	168	5.2±0.4
-100	-8.0±1.2	-10	8.8±0.4	80	8.9±0.2	170	4.8±0.7
-98	-8.0±0.6	-8	9.3±0.5	82	9.0±0.2	172	4.3±0.3
-96	-8.5±0.5	-6	9.3±0.3	84	9.2±0.4	174	4.0±0.7
-94	-9.1±0.5	-4	9.6±0.4	86	9.3±0.4	176	3.4±0.5
-92	-10.2±2.1	-2	9.8±0.4	88	8.8±1.0	178	2.7±0.3

$$dF = (X/F)\,\delta x + (Z/F)\,\delta z + (Y/F)\,\delta y$$

If we assume there is no Y change and note that near the equator $X/F = \cos I \sim 1$ and $Z/F = \sin I \sim I$, we can write $\Delta F = \delta x + I\delta z$ where the observed ΔF is caused by the jet components δx and δz. If the jet axis and POGO altitude dip equator were the same, the minima in ΔF would occur where I is zero and the spacecraft approaches closest to the jet; in other words, directly over the electrojet center. If the field is tilted at POGO altitude directly over the electrojet center, then a minimum in ΔF would occur close to the point where the electrojet field vector would be antiparallel to that of the main field. The geometry is shown in Figure 18 for the case where the dip equator at POGO altitude is a distance S north of the electrojet axis. Then the ΔF minimum will occur a distance d south of the axis where d is given approximately by the relation $2s(h-hj) / (6370 + 2hj-h)$ and hj = height of the jet. Thus if the dip equator were 100 km north of the axis, then the southward displacement of the minimum would be less than 10 km. or 0.1° in latitude.

We can see from Figure 19 which is reproduced from Sugiura and Poros (1969), that the computed current pattern at 80° west longitude is displaced about 0.5° south of the dip equator. This displacement is due to the fact that the field is weaker to the south at these longitudes. Cain (1969) calculated that the dip equator moves very little with altitude at this longitude. Thus for this longitude the minima at 400 km altitude would be expected a few tenths of a degree

APPARENT SATELLITE △F MINIMUM DUE TO EQUATORIAL ELECTROJET WHEN DIP EQUATOR AT SATELLITE IS NORTH OF ELECTROJET CENTER

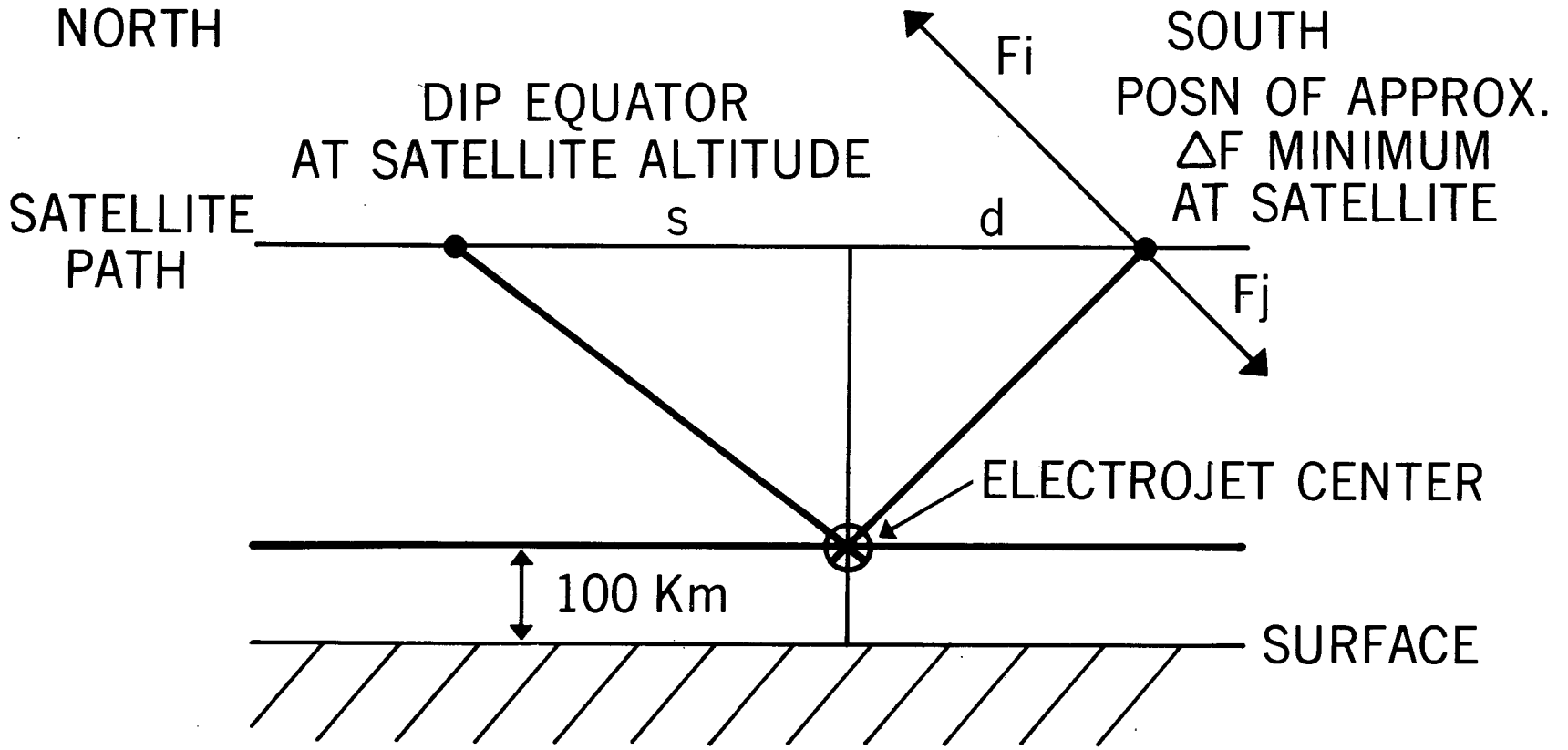

Figure 18

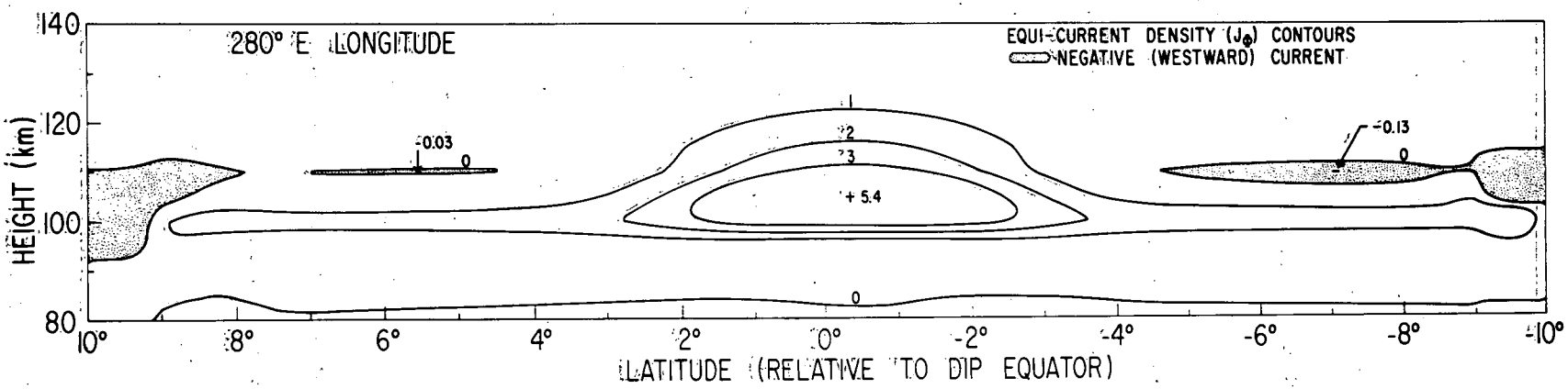

Figure 19. Eastward current patterns at 280°E longitude from current model of Sugiura and Poros (1969)

south as predicted from the current model. The average latitude we obtain from our data is -12.7 ± 0.3°. Since Huancayo is located at -12.3° this places the average value some 40 ± 30 km to the south. This is within a reasonable agreement with the average 27 km south figure obtained by Osborne (1964) using the IGY data of Forbush and Casaverde (1961). However, if we use the 2° inclination over Jicamarca determined by Woodman (1971), the dip equator must be at about 13° S or some 80 km south of Huancayo. Thus the jet axis would be north of the dip equator. This northward tendency has also been pointed out by Burrows (1970) and is not inconsistent with the results of Davis, et al (1967). Both of these last two papers refer to a dip equator at about -12.3° latitude. It is interesting to note that the dip equator computed from the satellite derived model has too low a dip at Huancayo and thus places the dip equator just north of the average electrojet minima. A similar tendency is seen over India where the current model by Sugiura and Poros (1969) predicts very little displacement.

Thus, at least at the longitude of Huancayo, the average position is in agreement with surface data although displaced from that expected from a theory which assumes a driving field constant with longitude. One must conclude that this distortion arises either from a tilt in the effective depth of the induced currents or from a gradient of electric field which is stronger to the north.

One other peculiarity seen in Figure 17 must be explained since it appears to be an anomalous result. There is a sharp discontinuity between 16 and 22°

longitude in which there is a rise in the dispersion and an apparent southward shift. Further inspection now reveals that there is an essential error in many of these observations which has yet to be corrected. This is caused by the sharp negative magnetic anomaly illustrated in Figure 20 (Davis, W. M. and R. D. Regan "Private Communication"). Here a northeastward trending crustal anomaly has added a deviation to the data. Figure 21 shows a plot of ΔF for a day and night pass over this region indicating that the reference level must take into account this feature. This will be done using the results of Davis and Regan ("Private Communication") to express the altitude and spatial dependence. This is the strongest anomaly noted to date in the satellite data.

Jet Models

We have not yet made extensive checks on models to be able to make a definite statement on the effective width of the jet current. Certainly the peculiarities illustrated in some of the previous figures indicate that the character of the curves needs to be better explained before estimates are made of jet parameters.

We have listed in Table 2 the jet signature for other values of the width of a band current and depths to the image current than those illustrated in Figure 1. It is clear that increasing the effective depth of the image current strengthens the signature, and, of course, a broader jet has a broader signature. The fact that the spacecraft is farther from the E region and the induced current than surface observations, plus the fact that the effect of induction at the spacecraft is to reduce rather

CONTOURS OF △F AVERAGES FROM OGO-2 AND -4 DATA (≤700 KM ALT) OVER CENTRAL AFRICA. NOON PASSES (9^h-15^h LOCAL TIME) WERE OMITTED. DATA ACTUALLY CONTOURED WAS DEVIATION OF △F VALUES FROM PASS-BY-PASS MEANS.

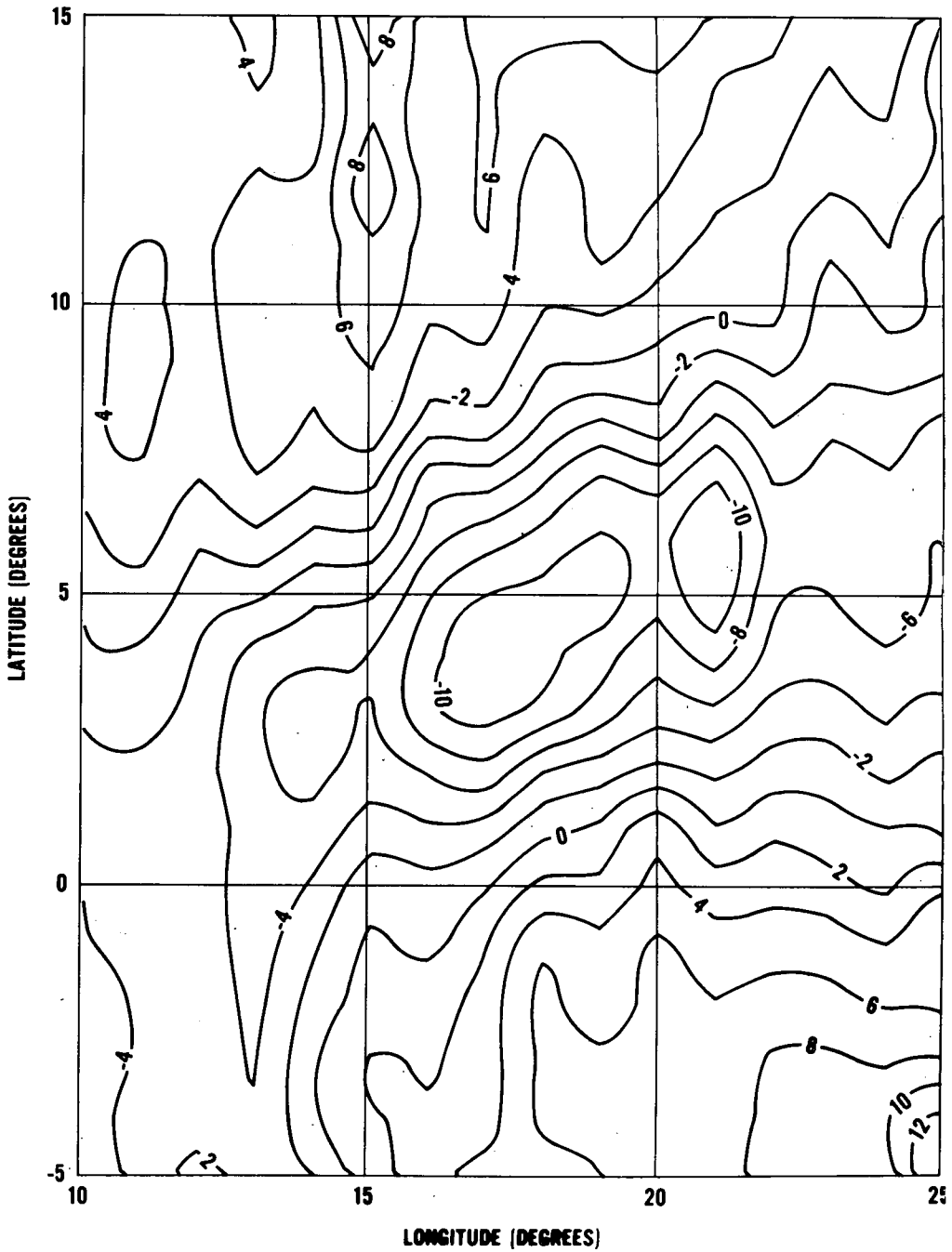

Figure 20

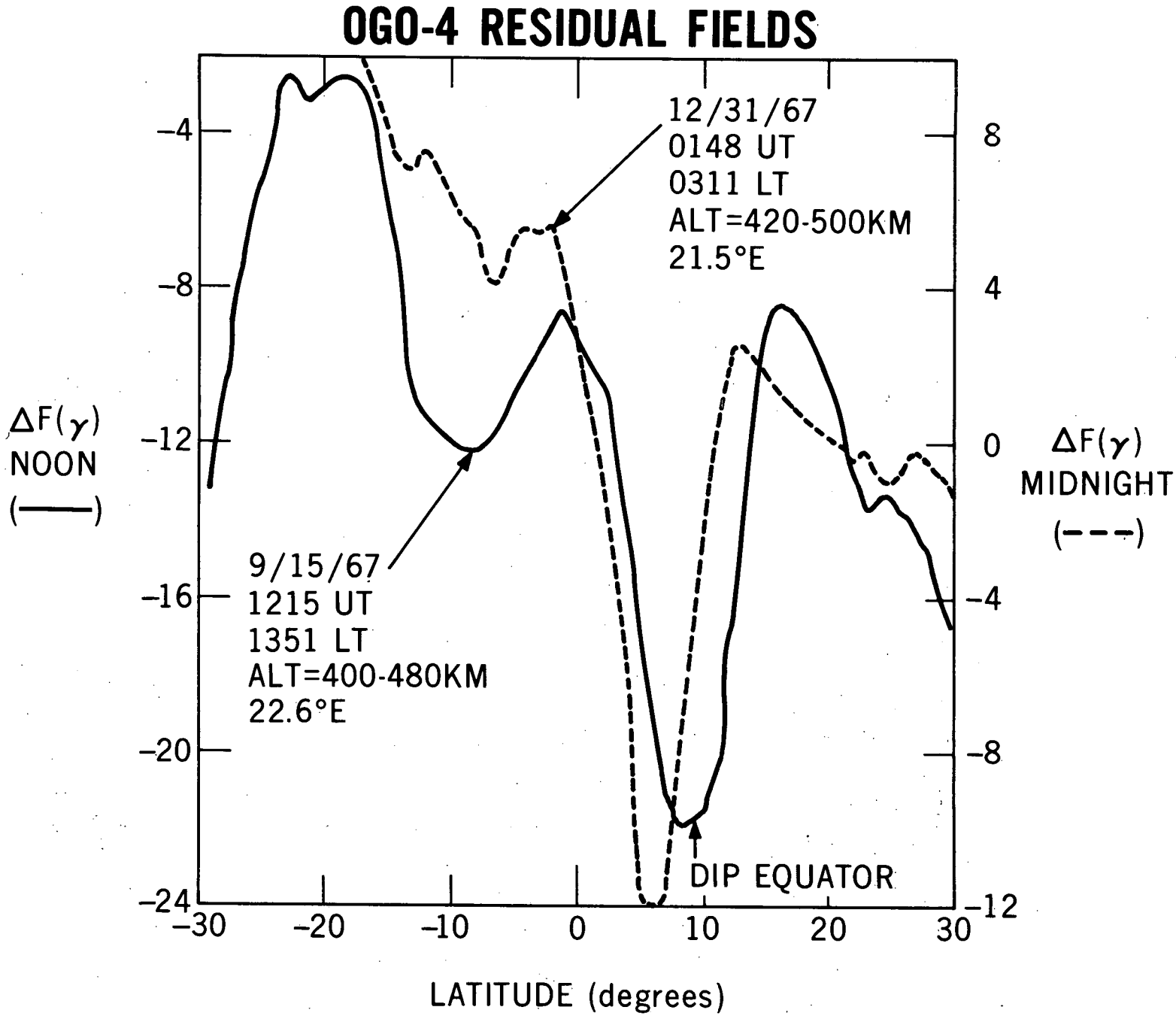
OGO-4 RESIDUAL FIELDS
12/31/67
0148 UT
0311 LT
ALT=420-500KM
21.5°E
9/15/67
1215 UT
1351 LT
ALT=400-480KM
22.6°E
DIP EQUATOR
ΔF(γ)
NOON
(——)
ΔF(γ)
MIDNIGHT
(– – –)
-4
-8
-12
-16
-20
-24
8
4
0
-4
-8
-12
-30
-20
-10
0
10
20
30
LATITUDE (degrees)

Figure 21

TABLE 2. VARIATIONS AT 400 KM. IN SIGNATURE OF DELTA-F CURVE FROM ELECTROJET MODEL CENTERED AT DIP EQUATOR USING UNIFORM SHEET CURRENT OF WIDTH W (100 KM. ALT) AND IMAGE CURRENT OF WIDTH W AND DEPTH D. POGO(6/71) COEFFICIENTS WERE USED TO MODEL THE MAIN FIELD. LONGITUDE = 80 DEGREES.

DELTA-F MINIMUM (GAMMAS)

		W (KM.)					
		500	600	700	800	900	1000
	0	-5.4	-5.6	-5.7	-5.6	-5.5	-5.3
	-200	-11.9	-12.8	-13.3	-13.5	-13.5	-13.4
D (KM.)	-400	-15.6	-17.0	-17.9	-18.5	-18.7	-18.8
	-600	-17.9	-19.7	-20.9	-21.8	-22.3	-22.6
	-800	-19.5	-21.5	-23.0	-24.1	-24.8	-25.3
	-1000	-20.6	-22.9	-24.6	-25.8	-26.7	-27.4

CENTER-TO-SHOULDER WIDTH
(DEGREES LATITUDE BETWEEN ZERO
DELTA-F LEVEL & DELTA-F MINIMUM.)

		W (KM.)					
		500	600	700	800	900	1000
	0	3.2	3.4	3.8	4.0	4.2	4.6
	-200	3.6	3.8	4.0	4.4	4.6	4.8
D (KM.)	-400	4.0	4.2	4.4	4.6	4.8	5.2
	-600	4.2	4.4	4.6	4.8	5.0	5.4
	-800	4.6	4.6	4.8	5.0	5.4	5.6
	-1000	4.8	5.0	5.0	5.2	5.4	5.8

than strengthen the jet effect, makes the satellite magnetometer more sensitive to induction. A proper interpretation of the jet amplitudes may thus be dependent on working out a better model for induction. On the other hand, the satellite results could be more useful in determining the conductivity profiles.

The ΔF profiles will be used (alone and in conjunction with surface data) to help define current functions. However, such models as described by Figure 1 and Table 2 can be used to check whether the models are approximately correct. We have attempted to estimate the average width of the signature near the top where the signature clearly breaks from the background curve. The average width is seen to vary only from about 16° in the 400-500 km range to 19° in the 700-800 km range. If Figure 1 is any guide, we have thus scaled the amplitude from a point on each curve where the slope has exceeded a threshold value ($\sim\pm10°$). Thus the lower altitude curves would have been estimated from a point up to 1γ above a zero level whereas the amplitudes of the higher altitude curves would be from a 0 to -1γ baseline. Again, the very high shoulders on some of the ΔF profiles indicate that a simple model without some westward currents in nearby latitudes may be unreasonable. It should be a simple matter to use numerical fitting techniques to adjust for the best fit to such parameters as those used by Onwumechilli (1967).

That is, since ΔF is a small perturbation from the total field, the perturbation may be evaluated as

$$\Delta F = (H/F)h + (Z/F)z$$

where H, Z and F are the easily calculable components of the main field and h and z are the jet additions. The h and z are both functions of the parameters J_0, the axis current intensity (height integrated); α, current function shape factor; a, current function "width" factor; and d, the depth to an equivalent induced current having the same parameters J_0, α, and a. If the derivatives of h and z relative to each of these parameters can be expressed in a closed form, linearized least squares techniques available in most computing centers can easily solve for the parameters and give estimates of their confidence. Of course, if a similar computation were possible with both satellite and surface data, the result would be even more accurate. The surface values would need to be corrected so that any contributions from the broader Sq or DS would be eliminated and only the jet enhancement estimated. The satellite ΔF profiles on each side of the jet may be helpful in this connection if some way can be found to separate the ionospheric Sq from the magnetospheric effects. Curves such as Figure 2 show that Sq should reduce ΔF above the ionosphere by the order of 10γ compared with the $\sim 30\gamma$ increase near the surface. Langel and Sweeney (1971) have shown that during the absence of ionospheric conductivity (at twilight), the ΔF at POGO altitude correlates very well with surface data. However, it may not be such a simple separation if the magnetospheric variations are also inducing currents in the ionosphere.

Longitude Variations

As stated earlier, a preliminary test failed to find a clear function of longitude that would form a useful basis for normalization. Such a correction might be helpful in establishing possible changes in electric field, ion density, or other parameters which could then be followed on a universal time basis.

For guidance in this area we again consider the recent computation of Sugiura and Poros (1969), which gives evaluations of meridional currents at 0, 40, 80, 180, 280° longitude and eastward profiles at 80° and 280°. However, they did not compute estimates at all longitudes which could be then directly applied to our data. We have thus made a rudimentary test computation of the relative conductivity near the dip equator at a constant 100 km altitude using a model (high latitude!) ionosphere given to us by R. A. Langel ("private communication"). A longitude profile of σ_{yy} was computed and is illustrated in Figure 22. Plotted also on this diagram are the two center values of eastward current (⊠ symbols) given by Sugiura and Poros (1969) normalized to our curve at -80° and also the relative values of meridional currents at the five longitudes (⊙) similarly normalized. We have further used the expression given by Davis, Burrows, and Stolarick (1967) for the effective eastward conductivity to compute a model ΔF as seen at 400 km altitude (no image current since it would have the same relative effect). That is, the expression

$$\sigma_y = \frac{\sigma_2}{\sigma_1} \sigma_{xy} \sin I + \sigma_{yy}$$

1/ $\sigma_y \left(= \frac{\sigma_2}{\sigma_1} \cdot \sigma_{xy} \text{ SIN I} + \sigma_{yy}\right)$ @ DIP EQUATOR (100 Km ALT) VS LONGITUDE

2/ ΔF FROM σ_y (10° SHEET CURRENT CENTERED AT DIP EQUATOR) AS SEEN FROM 400 Km SATELLITE ALTITUDE

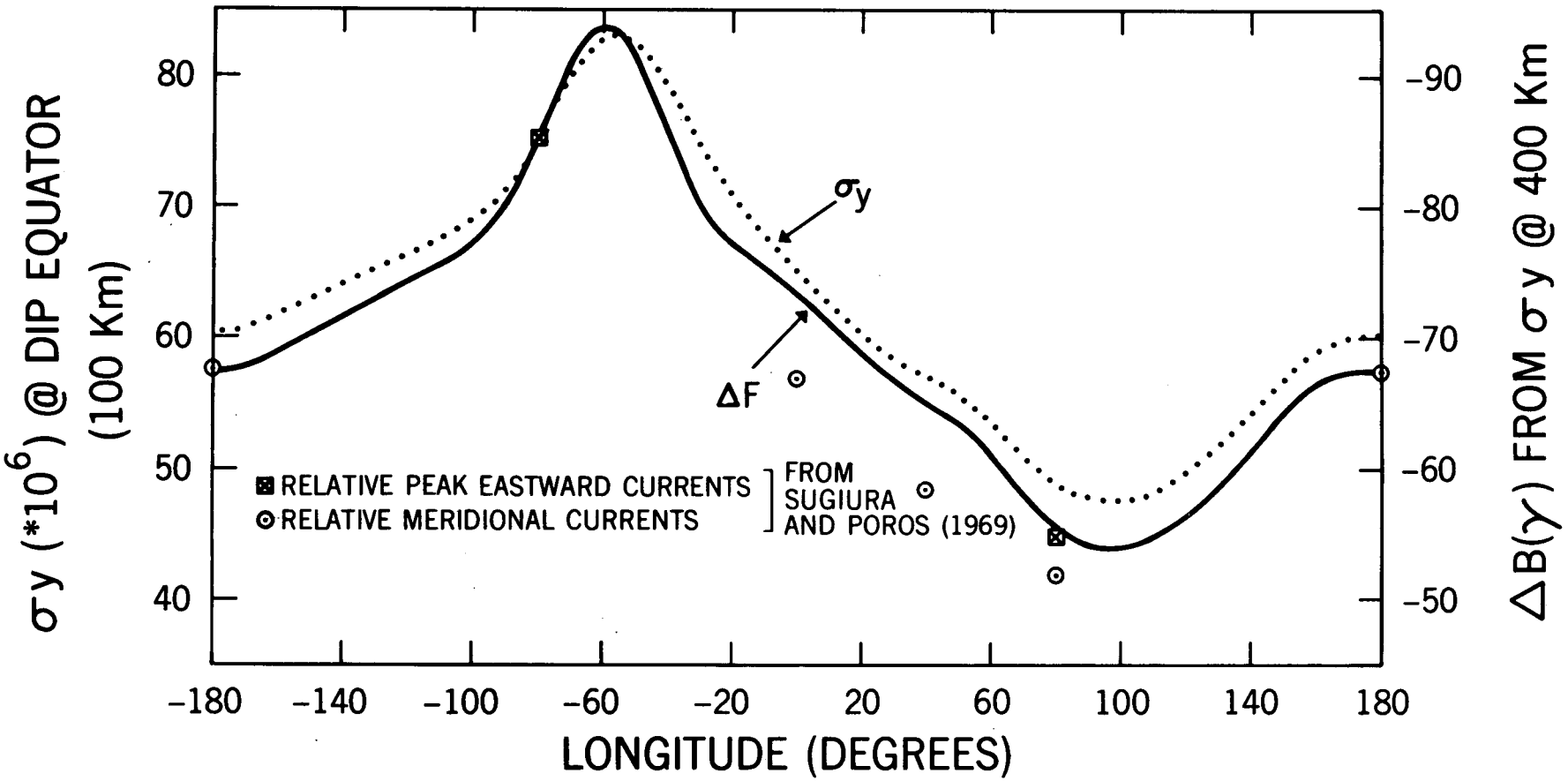

Figure 22

was computed from this ionospheric model where

$$\sigma_{yy} = \sigma_1 + \sigma_2^2/(\sigma_0 \tan^2 I + \sigma_1)$$

and

$$\sigma_{xy} = \sigma_0 \sigma_2 \sin I/(\sigma_0 \sin^2 I + \sigma_1 \cos^2 I)$$

at a constant 100 km altitude, and the infinite line current approximation was used (no integration with altitude) to compute a ΔF adding into the real field expressed from spherical harmonic coefficients.

It is surprising to find that with such poor approximations the two curves and plotted data from the Sugiura and Poros (1969) paper agree so closely. A more sophisticated treatment is planned from first principles performing a solution with more appropriate ionospheric values.

It is instructive to look at the distribution of amplitudes (normalized to 400 km) which result from the present assessment of the POGO data. Averages taken over 2° segments of longitude are given in Figure 23. Compared with the ΔF curve in Figure 22, the expected maximum in the region from 40 to 80°W is clearly seen. However, the expected trough due to the equatorial field maxima centered on the Bay of Bengal is not evident. To clarify this disparity we have averaged the data over 30° longitude intervals and plotted the result in Figure 24. The solid line connects the averages, and the dashed points are from the theoretical ΔF curve of Figure 22 suitably normalized. These plots seem to

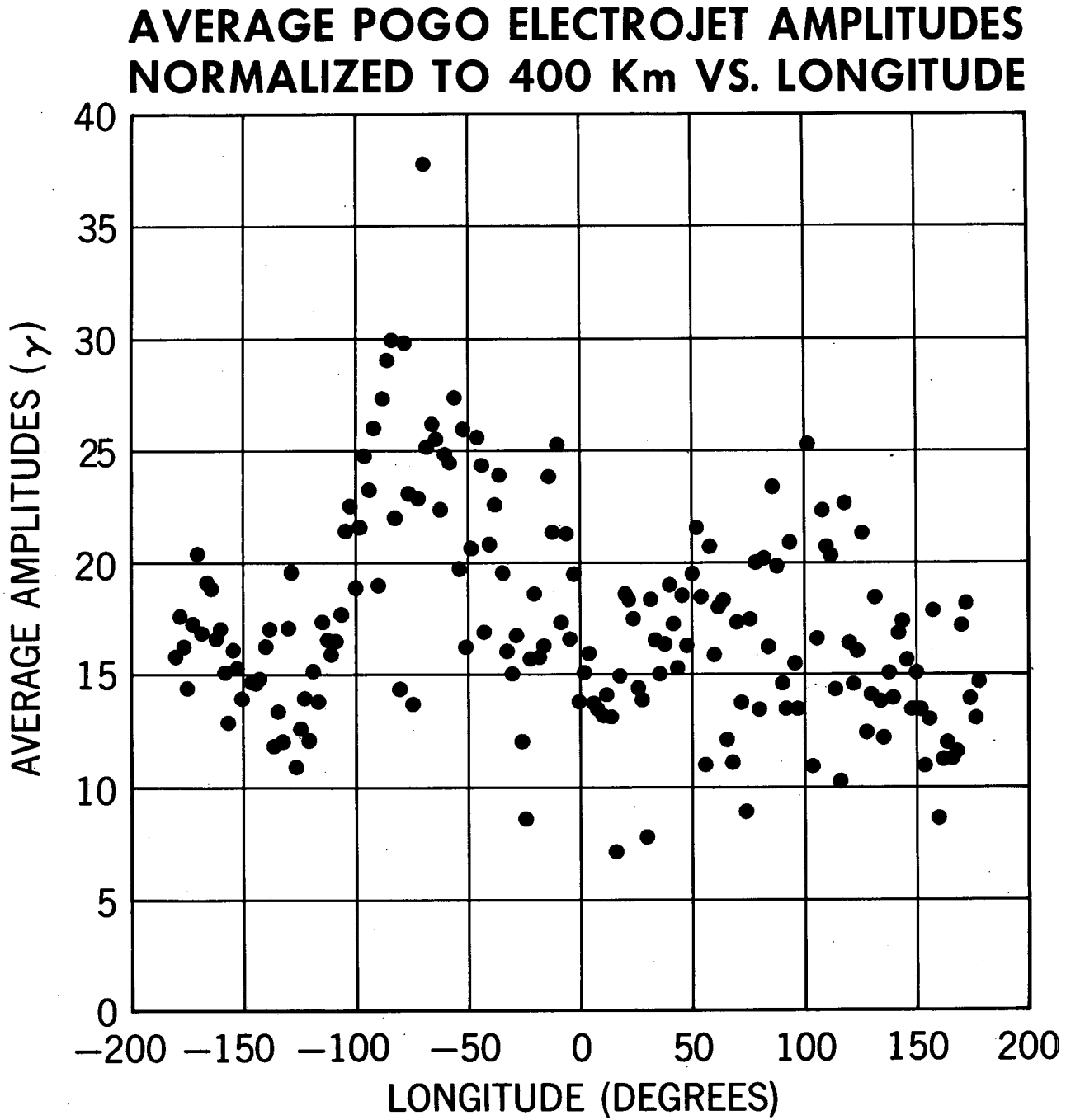
AVERAGE POGO ELECTROJET AMPLITUDES
NORMALIZED TO 400 Km VS. LONGITUDE
AVERAGE AMPLITUDES (γ)
0
5
10
15
20
25
30
35
40
−200
−150
−100
−50
0
50
100
150
200
LONGITUDE (DEGREES)

Figure 23

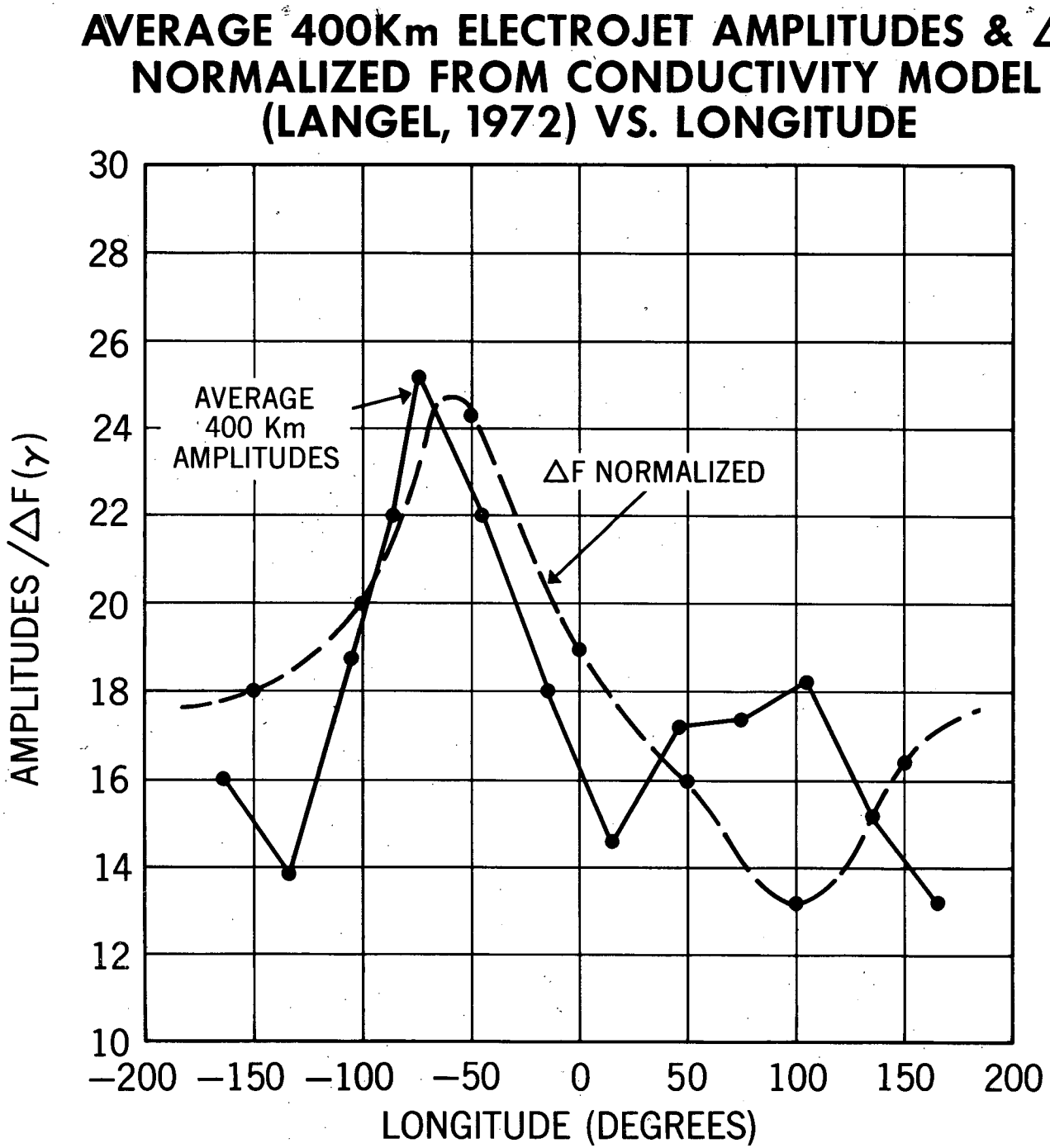
AVERAGE 400Km ELECTROJET AMPLITUDES & ΔF
NORMALIZED FROM CONDUCTIVITY MODEL
(LANGEL, 1972) VS. LONGITUDE
AVERAGE
400 Km
AMPLITUDES
ΔF NORMALIZED
AMPLITUDES /ΔF (γ)
30
28
26
24
22
20
18
16
14
12
10
−200 −150 −100 −50 0 50 100 150 200
LONGITUDE (DEGREES)

Figure 24

indicate that instead of a minimum, there is a maximum in this region. Although the scatter of the data is very large, this result could be interpreted as implying some real systematic effect.

The first interpretation might be that there is some systematic variation related to the distance of the dip equator from the geographic equator. There is undoubtedly such an effect if we are to believe the dynamo theory which regards tidal generated winds as the basic cause of Sq and the electrojet. However, such an amplification should also appear over Africa which appears to have an even lower amplitude. Since the data are taken over several seasons, a seasonal effect would tend to be smeared out. Thus, unless there are systematic changes in the wind patterns at 100 km that would make them relatively stronger near 100° longitude than elsewhere we must consider that there is some systematic change in the induced currents with longitude. Table 2 shows that a given current intensity can result in a stronger jet signature if the image plane is moved to a lower level. Thus, if the Huancayo and African areas are represented by image planes at 200-250 km, then the 100° longitudes could have the amplitudes increased a third to account for the measured averages by dropping the equivalent depth to ~450 km. Such a variation would imply considerable longitudinal inhomogeneity in the composition of the upper mantle.

CONCLUSIONS

It is too early in the analysis to draw very many conclusions from these data. It is clear that these manual inspections of the ΔF curves over the dip

equator are helpful in interpreting the phenomena. The program now is to concentrate on a more sophisticated modelling, both numerical and theoretical, to understand the variations. At this stage, attempts to sort out such known phenomena as the lunar variation give only random noise.

The present data have shown that the gross character of the electrojet is nearly as expected, but that such major factors as the current profile and the effects of induction need further determination. It is hoped that a comparison with surface variational data and observed ionospheric changes including drift velocity measurements will be illuminating.

The strange behavior of the ΔF profiles during various types of magnetic disturbance needs to be more clearly understood. The high "shoulders" on the ΔF profiles seem to imply a frequent westward current during these times.

The relation between the Sq and electrojet has yet to be determined. Kane (1971) finds that there is a high correlation after appropriate corrections are made for magnetic disturbance and the variation of the Sq foci. Other workers are less convinced. Even if one assumed that all Sq was of ionospheric origin and the electrojet only an enhancement, would the two stream instability noted by Farley (1963) cause there to be a significant change in the effective conductivity? The deviations from a correlation with Sq due to turbulent conductivity would be very useful since the behavior of plasmas under such conditions is not well understood.

The present data verify the observation that the electrojet and thus presumably the driving electric field or neutral wind motion is highly variable. At this point it is not clear whether the major cause of the variability is due to the changes in wind flow or to magnetospheric effects. The data show series of traversals, for example, where the electrojet simply disappears.

The data also suggest that there may be significant differences in the upper mantle conductivity structure. In particular the conductivity of the upper layers in the east Asian area appears anomalously low.

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APPENDIX A

Tabulation of OGO-4 and 6 data in chronological order. The columns are as follows:

YR = year - 1900

MON = month of year

DAY = day of month

UT = universal time near equator. (Spacecraft speed is of the order of 400 km per minute.)

LT = local time of equator crossing. LT = UT + Longitude + E, where equation of time E is computed in seconds from the expression E = - 98 sin L - 431 sin 2L + 597 sine 2L.

L = angle of earth's revolution past vernal equinox.

ALT = kilometers altitude near equator

LAT = estimate by eye of latitude of minimum from plots such as those illustrated in Figure 4, etc.

MIN. VAL. = absolute level in gammas of minima of jet feature

AMP = semi-quantitative estimate of electrojet amplitude judging from breaks in curve.

ERR = estimated error in amplitude estimate

AMP/400 km/ERR = amplitude and error estimate projected from observed to 400 km altitude

FRAME = plot frame number for reference

NOTE: 9's are used for above when listed quantity cannot be determined.

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
67	9	1	54	468	1511	-145.9	-2.0	-23	13	(3)	15	(3)	50	
67	9	1	232	467	1511	-170.5	0.5	-45	21	(2)	25	(2)	51	
67	9	1	410	467	1511	164.9	5.0	-36	3	(3)	3	(3)	52	
67	9	1	548	466	1510	140.3	7.0	-60	11	(2)	13	(2)	53	
67	9	1	726	466	1510	115.7	999.9	999	99	(99)	99	(99)	54	ELECTROJET TOO BROAD TO CAL.
67	9	1	904	465	1509	91.2	12.0	-18	2	(1)	2	(1)	55	
67	9	1	1041	464	1509	66.6	999.9	999	99	(99)	99	(99)	56	ELECTROJET TOO BROAD TO CAL.
67	9	1	1219	464	1509	42.0	999.9	999	99	(99)	99	(99)	57	ELECTROJET TOO BROAD TO CAL.
67	9	1	1357	463	1508	17.5	999.9	999	99	(99)	99	(99)	58	ELECTROJET TOO BROAD TO CAL.
67	9	1	1535	463	1508	-7.0	9.0	-16	7	(1)	8	(1)	59	
67	9	1	1713	462	1507	-31.5	999.9	999	99	(99)	99	(99)	60	ELECTROJET TOO BROAD TO CAL.
67	9	1	2206	461	1506	-105.2	-7.5	-38	2	(1)	2	(1)	61	
67	9	1	2344	460	1506	-129.8	-3.5	-65	9	(2)	10	(2)	62	
67	9	2	122	459	1506	-154.4	-2.0	-40	10	(3)	11	(3)	63	
67	9	2	300	459	1505	-178.9	2.5	-48	20	(3)	23	(3)	64	
67	9	2	438	459	1505	156.4	7.0	-34	8	(3)	9	(3)	65	
67	9	2	616	458	1505	131.8	8.0	-50	2	(1)	2	(1)	66	
67	9	2	754	458	1504	107.3	9.0	-42	8	(2)	9	(2)	67	
67	9	2	1109	456	1502	58.1	999.9	999	99	(99)	99	(99)	68	MISSING OR INCOMPLETE DATA
67	9	2	1247	456	1503	33.6	9.0	-37	4	(2)	4	(2)	69	
67	9	2	1425	455	1503	9.0	10.5	-28	9	(2)	10	(2)	70	
67	9	2	1603	455	1502	-15.4	9.5	-33	8	(2)	9	(2)	71	
67	9	2	1741	455	1502	-40.0	-6.5	-24	1	(1)	1	(1)	72	
67	9	2	1919	454	1501	-64.6	-14.0	-38	10	(2)	11	(2)	73	
67	9	2	2056	454	1501	-89.1	-11.0	-38	14	(3)	16	(3)	74	
67	9	2	2234	453	1501	-113.7	999.9	999	99	(99)	99	(99)	75	ELECTROJET TOO BROAD TO CAL.
67	9	3	12	453	1500	-138.3	999.9	999	99	(99)	99	(99)	76	ELECTROJET TOO BROAD TO CAL.
67	9	3	506	451	1459	148.0	999.9	999	99	(99)	99	(99)	77	ELECTROJET TOO BROAD TO CAL.
67	9	3	821	450	1458	98.8	9.5	-22	6	(2)	6	(2)	78	
67	9	3	959	450	1458	74.3	999.9	999	99	(99)	99	(99)	79	ELECTROJET TOO BROAD TO CAL.
67	9	3	1137	449	1458	49.7	999.9	999	99	(99)	99	(99)	80	NO ELECTROJET
67	9	3	1453	448	1457	0.6	9.5	-11	2	(1)	2	(1)	81	
67	9	3	1631	448	1456	-23.9	999.9	999	99	(99)	99	(99)	82	NO ELECTROJET
67	9	3	2124	447	1455	-97.6	-8.0	-23	17	(6)	19	(6)	83	
67	9	3	2302	446	1455	-122.1	-6.0	-29	8	(2)	9	(2)	84	
67	9	4	356	445	1454	164.1	999.9	999	99	(99)	99	(99)	85	NO ELECTROJET
67	9	4	533	445	1452	139.5	999.9	999	99	(99)	99	(99)	86	NO ELECTROJET
67	9	4	711	444	1453	114.9	8.0	-21	4	(1)	4	(1)	87	
67	9	4	1027	443	1452	65.8	999.9	999	99	(99)	99	(99)	88	MISSING OR INCOMPLETE DATA
67	9	4	1205	443	1451	41.3	999.9	999	99	(99)	99	(99)	89	NO ELECTROJET
67	9	4	1343	442	1452	16.7	999.9	999	99	(99)	99	(99)	90	MISSING OR INCOMPLETE DATA
67	9	4	1521	442	1451	-7.8	8.5	-12	7	(4)	7	(4)	91	
67	9	4	1658	442	1451	-32.3	999.9	999	99	(99)	99	(99)	92	MISSING OR INCOMPLETE DATA
67	9	4	2152	441	1450	-106.0	-7.0	-16	6	(2)	6	(2)	93	
67	9	4	2330	440	1449	-130.6	-4.0	-19	5	(2)	5	(2)	94	
67	9	5	108	440	1449	-155.1	-3.5	-21	2	(1)	2	(1)	95	
67	9	5	246	439	1449	-179.7	999.9	999	99	(99)	99	(99)	96	MISSING OR INCOMPLETE DATA
67	9	5	423	439	1447	155.6	999.9	999	99	(99)	99	(99)	97	NO ELECTROJET
67	9	5	739	439	1448	106.5	8.5	-26	12	(2)	13	(2)	98	
67	9	5	917	438	1447	81.9	9.0	-15	14	(5)	15	(5)	99	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP. AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
67	9	5	1055	438	1447	57.4	7.5	-10	8	(5)	8	(5)	100	
67	9	5	1410	437	1446	8.3	11.0	0	3	(1)	3	(1)	101	
67	9	5	1548	437	1446	-16.2	7.3	-5	6	(1)	6	(1)	102	
67	9	5	1726	436	1444	-40.8	999.9	999	99	(99)	99	(99)	103	MISSING OR INCOMPLETE DATA
67	9	5	2220	435	1444	-114.5	-4.0	-14	12	(6)	13	(6)	104	
67	9	5	2358	435	1443	-139.0	-4.0	-15	7	(2)	7	(2)	105	
67	9	6	135	435	1443	-163.6	-1.0	-31	20	(6)	22	(6)	106	
67	9	6	313	434	1443	171.8	3.8	-19	9	(2)	9	(2)	107	
67	9	6	451	434	1443	147.2	8.3	-2	1	(1)	1	(1)	108	
67	9	6	629	434	1442	122.6	7.3	-14	12	(3)	13	(3)	109	
67	9	6	807	434	1442	98.1	9.5	-6	7	(1)	7	(1)	110	
67	9	6	945	433	1441	73.5	8.5	-7	6	(4)	6	(4)	111	
67	9	6	1122	433	1441	49.0	999.9	999	99	(99)	99	(99)	112	NO ELECTROJET
67	9	6	1300	433	1441	24.4	999.9	999	99	(99)	99	(99)	113	NO ELECTROJET
67	9	6	1438	432	1440	-0.1	10.0	5	2	(1)	2	(1)	114	
67	9	6	1616	432	1440	-24.6	999.9	999	99	(99)	99	(99)	115	NO ELECTROJET
67	9	7	25	431	1438	-147.4	-2.0	-13	10	(2)	10	(2)	116	
67	9	7	341	430	1437	163.3	6.0	-10	6	(1)	6	(1)	117	
67	9	7	519	430	1437	138.8	999.9	999	99	(99)	99	(99)	118	NO ELECTROJET
67	9	8	231	427	1432	179.5	3.0	-18	14	(1)	15	(1)	3	
67	9	8	409	427	1432	154.9	7.0	-4	3	(1)	3	(1)	4	
67	9	8	546	427	1431	130.4	7.5	-29	15	(5)	16	(5)	5	
67	9	8	902	427	1430	81.2	9.0	0	13	(5)	14	(5)	6	
67	9	8	1040	425	1430	56.7	8.0	0	3	(1)	3	(1)	7	
67	9	8	1218	426	1430	32.1	999.9	999	99	(99)	99	(99)	8	NO ELECTROJET
67	9	8	1533	426	1429	-16.9	8.0	-12	10	(5)	10	(5)	9	
67	9	8	1711	426	1428	-41.5	-6.0	-9	5	(3)	5	(3)	10	
67	9	8	2205	425	1427	-115.1	999.9	999	99	(99)	99	(99)	11	NO ELECTROJET
67	9	8	2343	425	1427	-139.7	999.9	999	99	(99)	99	(99)	12	NO ELECTROJET
67	9	9	121	425	1427	-164.3	-1.0	-36	16	(5)	17	(5)	13	
67	9	9	258	425	1426	171.1	4.0	-50	15	(1)	16	(1)	14	
67	9	9	436	426	1426	146.5	8.0	-25	10	(2)	10	(2)	15	
67	9	9	614	424	1426	122.0	8.0	-32	13	(1)	13	(1)	16	
67	9	9	752	424	1425	97.4	9.5	-32	20	(1)	21	(1)	17	
67	9	9	930	424	1425	72.8	8.5	-13	8	(2)	8	(2)	18	
67	9	9	1108	424	1424	48.3	999.9	999	99	(99)	99	(99)	19	MISSING OR INCOMPLETE DATA
67	9	9	1245	424	1424	23.7	6.0	-40	11	(1)	11	(1)	20	
67	9	9	1423	424	1424	-0.7	10.0	-23	6	(1)	6	(1)	21	
67	9	9	1601	424	1423	-25.3	3.0	-19	5	(3)	5	(3)	22	
67	9	9	2055	423	1422	-99.0	-8.0	-48	13	(3)	13	(3)	23	
67	9	9	2232	423	1422	-123.5	999.9	999	99	(99)	99	(99)	24	NO ELECTROJET
67	9	10	10	423	1422	-148.1	-3.0	-35	3	(2)	3	(2)	25	
67	9	10	148	423	1421	-172.7	-0.2	-36	12	(4)	12	(4)	26	
67	9	10	326	423	1421	162.7	999.9	999	99	(99)	99	(99)	27	NO ELECTROJET
67	9	10	504	423	1420	138.1	8.0	-33	8	(1)	8	(1)	28	
67	9	10	642	423	1420	113.6	8.2	-20	12	(1)	12	(1)	29	
67	9	10	819	423	1420	89.0	9.8	-16	7	(1)	7	(1)	30	
67	9	10	957	423	1419	64.4	8.5	-11	5	(1)	5	(1)	31	
67	9	10	1135	423	1419	39.9	8.9	-11	2	(1)	2	(1)	32	
67	9	10	1313	423	1418	15.3	10.1	-10	10	(4)	10	(4)	33	
67	9	10	1451	422	1418	-9.1	8.8	-13	16	(3)	17	(3)	34	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
67	9	10	1629	423	1418	-33.7	-2.5	-8	8	(1)	8	(1)	35	
67	9	10	2122	423	1416	-107.4	-6.3	-6	12	(5)	12	(5)	36	
67	9	11	38	422	1416	-156.5	999.9	999	99	(99)	99	(99)	37	NO ELECTROJET
67	9	11	216	422	1416	178.9	3.0	-7	6	(1)	6	(1)	38	
67	9	11	709	422	1414	105.2	8.5	-7	11	(2)	11	(2)	39	
67	9	11	847	422	1414	80.6	9.0	4	6	(3)	6	(3)	40	
67	9	11	1025	422	1414	56.1	999.9	999	99	(99)	99	(99)	41	NO ELECTROJET
67	9	11	1340	422	1413	6.9	10.0	-9	14	(5)	14	(5)	42	
67	9	11	1518	422	1412	-17.5	7.0	-16	15	(2)	16	(2)	43	
67	9	11	2327	422	1410	-140.3	-3.5	-7	8	(3)	8	(3)	44	
67	9	12	105	422	1410	-164.9	-0.5	-6	14	(3)	14	(3)	45	
67	9	12	243	422	1409	170.5	999.9	999	99	(99)	99	(99)	46	MISSING OR INCOMPLETE DATA
67	9	12	737	423	1409	96.8	9.0	12	2	(1)	2	(1)	47	
67	9	12	914	423	1408	72.2	999.9	999	99	(99)	99	(99)	48	NO ELECTROJET
67	9	12	1230	423	1407	23.1	999.9	999	99	(99)	99	(99)	49	NO ELECTROJET
67	9	12	1408	423	1407	-1.3	10.0	-10	20	(1)	21	(1)	50	
67	9	12	2039	423	1405	-99.6	-11.0	-1	7	(3)	7	(3)	51	
67	9	12	2217	423	1405	-124.1	999.9	999	99	(99)	99	(99)	52	NO ELECTROJET
67	9	12	2355	423	1405	-148.7	-2.0	8	2	(1)	2	(1)	53	
67	9	13	133	420	1405	-173.3	9.4	10	12	(7)	12	(7)	3	
67	9	13	311	420	1404	162.1	6.1	8	8	(4)	8	(4)	4	
67	9	13	626	420	1403	113.0	8.0	42	0	(2)	0	(2)	6	
67	9	13	804	420	1403	88.4	6.0	-16	10	(1)	10	(1)	7	
67	9	13	1258	420	1402	14.7	11.0	-19	6	(1)	6	(1)	10	
67	9	13	1435	420	1401	-9.7	8.5	-38	26	(1)	27	(1)	11	
67	9	13	1613	420	1401	-34.3	-2.5	-97	20	(3)	21	(3)	12	
67	9	13	1929	420	1400	-83.4	-12.5	-61	18	(2)	19	(2)	13	
67	9	13	2106	430	1400	-107.9	-6.0	-51	8	(4)	8	(4)	14	
67	9	13	2245	430	1359	-132.5	-3.5	-39	3	(1)	3	(1)	15	
67	9	14	22	430	1359	-157.1	-2.0	-42	7	(3)	7	(3)	16	
67	9	14	200	430	1359	178.3	2.5	-26	5	(2)	5	(2)	17	
67	9	14	654	430	1357	104.6	8.5	-34	7	(1)	7	(1)	18	
67	9	14	832	430	1357	80.0	9.0	-28	14	(5)	15	(5)	19	
67	9	14	1009	430	1357	55.5	9.5	-25	4	(3)	4	(3)	20	
67	9	14	1147	430	1355	30.9	8.0	-32	4	(2)	4	(2)	21	
67	9	14	1325	430	1355	6.4	11.2	-55	9	(7)	9	(7)	22	
67	9	14	1503	430	1356	-18.1	9.5	-29	5	(2)	5	(2)	23	
67	9	14	2134	430	1354	-116.3	-4.0	-40	4	(2)	4	(2)	26	
67	9	14	2312	430	1354	-140.9	-3.0	-35	12	(3)	13	(3)	27	
67	9	15	50	430	1354	-165.4	-0.5	-57	28	(2)	30	(2)	28	
67	9	15	406	430	1353	145.4	7.0	-20	8	(3)	8	(3)	29	
67	9	15	543	430	1353	120.8	8.0	-36	8	(1)	8	(1)	30	
67	9	15	721	430	1352	96.2	9.5	-38	11	(3)	12	(3)	31	
67	9	15	1037	430	1351	47.1	7.0	-23	7	(2)	7	(2)	32	
67	9	15	1215	430	1351	22.6	8.0	-22	14	(1)	15	(1)	33	
67	9	15	1352	430	1351	-1.9	10.0	-18	14	(2)	15	(2)	34	
67	9	15	2202	430	1349	-124.7	-4.5	-7	2	(1)	2	(1)	35	
67	9	15	2339	430	1348	-149.2	-2.5	-30	9	(3)	9	(3)	36	
67	9	16	255	430	1348	161.6	7.0	-44	8	(2)	8	(2)	37	
67	9	16	433	430	1347	137.0	7.0	-30	8	(3)	8	(3)	38	
67	9	16	611	430	1347	112.5	8.0	-29	21	(2)	22	(2)	39	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP.	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
67	9	16	926	430	1346	63.3	7.5	-22	17	(3)	18	(3)	40	
67	9	16	1104	430	1346	38.8	9.5	-28	13	(2)	14	(2)	41	
67	9	16	1242	430	1345	14.2	10.5	-28	11	(2)	12	(2)	42	
67	9	16	2051	430	1343	-108.5	-5.5	-15	14	(2)	15	(2)	43	
67	9	17	7	430	1342	-157.6	-1.5	-24	16	(5)	17	(5)	44	
67	9	17	322	440	1342	153.2	7.0	-8	5	(1)	5	(1)	45	
67	9	17	500	440	1342	128.7	8.0	-15	5	(2)	5	(2)	46	
67	9	17	638	440	1341	104.1	8.5	-17	10	(1)	11	(1)	47	
67	9	17	816	440	1341	79.5	8.5	-2	8	(5)	9	(5)	48	
67	9	17	954	440	1340	55.0	7.5	-11	9	(7)	10	(7)	49	
67	9	17	1309	440	1340	5.9	10.0	-8	7	(2)	7	(2)	50	
67	9	17	1447	440	1339	-18.6	7.3	-14	14	(6)	15	(6)	51	
67	9	17	2118	440	1338	-116.8	-4.0	-7	14	(3)	15	(3)	53	
67	9	17	2256	440	1337	-141.4	-3.0	-5	15	(2)	16	(2)	54	
67	9	18	34	440	1337	-165.9	-1.0	0	13	(4)	14	(4)	55	
67	9	18	705	440	1336	95.8	9.0	-7	8	(1)	9	(1)	57	
67	9	18	843	440	1335	71.2	8.0	-9	18	(3)	20	(3)	58	
67	9	18	1021	440	1335	46.7	7.5	-11	12	(5)	13	(5)	59	
67	9	18	1159	440	1334	22.1	9.0	-15	20	(2)	22	(2)	60	
67	9	18	1514	440	1334	-26.9	2.5	2	13	(3)	14	(3)	61	
67	9	18	1830	440	1333	-76.0	-12.7	-48	32	(7)	36	(7)	62	
67	9	18	2146	440	1332	-125.1	-4.0	-50	10	(3)	11	(3)	63	
67	9	18	2324	440	1332	-149.7	-2.0	-66	19	(3)	21	(3)	64	
67	9	19	101	450	1332	-174.2	0.0	-53	7	(1)	8	(1)	65	
67	9	19	417	450	1331	136.5	7.0	-31	4	(3)	4	(3)	67	
67	9	19	555	450	1330	112.0	8.0	-46	14	(2)	16	(2)	68	
67	9	19	1048	450	1329	38.3	9.0	-20	15	(1)	17	(1)	70	
67	9	19	1226	450	1329	13.8	11.0	-24	10	(2)	11	(2)	71	
67	9	19	1404	450	1328	-10.7	8.5	-33	20	(5)	23	(5)	72	
67	9	19	1857	450	1327	-84.4	-11.5	-50	25	(5)	28	(5)	73	
67	9	19	2035	450	1327	-108.9	-5.5	-23	12	(5)	13	(5)	74	
67	9	20	800	450	1324	79.1	8.5	-65	23	(8)	26	(9)	76	
67	9	20	1116	450	1323	30.0	10.2	-77	17	(5)	19	(5)	78	
67	9	20	1431	460	1323	-19.0	6.5	-64	21	(8)	25	(9)	79	
67	9	20	1609	460	1322	-43.6	-6.5	-25	14	(1)	16	(1)	80	
67	9	20	1747	460	1321	-68.1	-13.0	0	18	(3)	21	(3)	81	
67	9	20	1924	450	1321	-92.7	-9.0	-25	99	(99)	99	(99)	82	AMP. TOO BROAD TO CALCULATE
67	9	20	2102	460	1321	-117.2	-5.5	-62	18	(1)	21	(1)	83	
67	9	21	18	460	1321	-166.4	-1.0	-70	9	(3)	10	(3)	84	
67	9	21	156	460	1320	169.0	5.0	-138	13	(2)	15	(2)	85	
67	9	21	334	460	1320	144.5	7.0	-164	25	(10)	29	(11)	86	
67	9	21	512	460	1319	119.9	8.5	-122	22	(2)	26	(2)	87	
67	9	21	827	460	1319	70.8	8.5	-121	37	(6)	44	(7)	88	
67	9	21	1005	460	1318	46.2	8.0	-98	25	(5)	29	(5)	89	
67	9	21	1321	460	1317	-2.8	9.5	-102	20	(5)	23	(5)	90	
67	9	21	1458	460	1317	-27.3	3.0	-83	20	(2)	23	(2)	91	
67	9	21	1814	460	1316	-76.4	-12.8	-100	33	(3)	39	(3)	92	
67	9	21	1952	460	1316	-101.0	-12.2	-160	99	(99)	99	(99)	93	AMP. TOO BROAD TO CALCULATE
67	9	21	2130	470	1315	-125.5	-5.0	-104	0	(2)	0	(2)	94	
67	9	21	2307	470	1315	-150.1	-2.0	-92	0	(2)	0	(2)	95	
67	9	22	45	470	1315	-174.6	1.0	-76	0	(2)	0	(2)	96	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
67	9	22	223	470	1315	160.7	6.0	-62	99	(99)	99	(99)	97	AMP. TOO BROAD TO CALCULATE
67	9	22	401	470	1314	136.2	7.0	-82	2	(1)	2	(1)	98	
67	9	22	854	470	1313	62.5	8.0	-53	20	(3)	24	(3)	99	
67	9	22	1032	470	1313	37.9	8.5	-60	20	(5)	24	(6)	100	
67	9	22	1210	470	1312	13.4	10.2	-55	22	(5)	27	(6)	101	
67	9	22	1348	470	1312	-11.1	8.5	-50	26	(6)	31	(7)	102	
67	9	22	1526	470	1311	-35.6	-2.8	-45	18	(4)	22	(4)	103	
67	9	22	1703	470	1311	-60.2	-13.5	-81	35	(2)	42	(2)	104	
67	9	22	1841	470	1311	-84.7	-11.5	-64	24	(2)	29	(2)	105	
67	9	22	2019	470	1310	-109.3	-5.0	-36	0	(1)	0	(1)	106	
67	9	22	2157	470	1310	-133.8	-3.5	-36	-3	(1)	-3	(1)	107	
67	9	22	2335	470	1309	-158.4	-1.8	-44	9	(3)	11	(3)	108	
67	9	23	112	470	1309	177.0	3.2	-40	12	(1)	14	(1)	109	
67	9	23	250	480	1309	152.4	8.5	-27	4	(1)	5	(1)	110	
67	9	23	428	480	1308	127.9	8.0	-58	17	(4)	21	(5)	111	
67	9	23	744	480	1308	78.8	8.7	-36	14	(4)	17	(5)	112	
67	9	23	921	480	1307	54.2	7.0	-38	10	(6)	12	(7)	113	
67	9	23	1059	480	1307	29.7	8.0	-37	5	(3)	6	(3)	114	
67	9	23	1237	480	1306	5.1	10.0	-50	23	(4)	29	(5)	115	
67	9	23	1415	480	1306	-19.3	6.1	-44	22	(3)	27	(3)	116	
67	9	23	1553	480	1306	-43.9	-8.0	-47	34	(3)	42	(3)	117	
67	9	23	1730	480	1305	-68.5	-13.7	-54	37	(3)	46	(3)	118	
67	9	23	1908	480	1305	-93.0	-9.0	-42	24	(5)	30	(6)	119	
67	9	23	2046	480	1304	-117.6	-4.0	-20	10	(3)	12	(3)	120	
67	9	24	2	480	1304	-166.7	0.0	-43	21	(1)	26	(1)	121	
67	9	24	139	480	1304	168.7	4.5	-28	8	(2)	10	(2)	122	
67	9	24	811	490	1302	70.5	8.0	-28	7	(2)	9	(2)	123	
67	9	24	949	490	1302	45.9	3.0	999	99	(99)	99	(99)	124	ELECTROJET TOO BROAD TO CAL.
67	9	24	1442	490	1300	-27.6	2.0	-45	13	(3)	16	(3)	125	
67	9	24	1758	490	1300	-76.7	-13.0	-57	39	(3)	50	(3)	126	
67	9	24	1935	490	1259	-101.8	-7.5	-49	27	(6)	35	(7)	127	
67	9	24	2113	490	1259	-125.8	-3.5	-53	21	(2)	27	(2)	128	
67	9	24	2251	490	1258	-150.4	-2.0	-37	11	(2)	14	(2)	129	
67	9	25	29	490	1258	-175.0	1.0	-35	10	(1)	12	(1)	130	
67	9	25	207	490	1258	160.4	6.2	-26	4	(1)	5	(1)	131	
67	9	25	522	490	1257	111.3	8.0	-34	15	(3)	19	(3)	132	
67	9	25	838	500	1256	62.2	7.5	-20	5	(1)	6	(1)	133	
67	9	25	1647	500	1254	-60.5	-13.5	-43	25	(3)	33	(4)	136	
67	9	25	1825	500	1254	-85.0	-11.0	-44	32	(2)	42	(2)	137	
67	9	25	2002	500	1254	-109.6	-5.4	-44	18	(1)	24	(1)	138	
67	9	25	2140	500	1253	-134.1	-3.5	-38	13	(3)	17	(4)	139	
67	9	25	2318	500	1253	-158.7	-1.5	-40	15	(2)	20	(2)	140	
67	9	26	56	500	1253	176.7	2.8	-35	8	(3)	10	(4)	141	
67	9	26	234	500	1252	152.1	7.3	-42	9	(2)	12	(2)	142	
67	9	26	411	500	1252	127.6	7.0	-53	10	(8)	13	(10)	143	
67	9	26	727	510	1251	78.6	7.5	-37	12	(9)	16	(12)	144	
67	9	26	1043	510	1250	29.4	9.0	-27	5	(4)	6	(5)	145	
67	9	26	1220	510	1250	4.8	10.0	-35	17	(2)	23	(2)	146	
67	9	26	1358	510	1249	-19.6	6.3	-28	18	(2)	24	(2)	147	
67	9	26	1536	510	1249	-44.2	-5.8	-25	12	(5)	16	(6)	148	
67	9	26	1714	510	1249	-68.7	-13.8	-40	21	(1)	28	(1)	149	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
67	9	26	1852	510	1248	-93.3	-9.0	-42	15	(2)	20	(2)	150	
67	9	26	2207	510	1247	-142.4	-2.5	-41	7	(2)	9	(2)	152	
67	9	26	2345	510	1247	-166.9	0.0	-46	9	(1)	12	(1)	153	
67	9	27	123	510	1247	168.4	5.0	-20	2	(1)	2	(1)	154	
67	9	27	301	510	1247	143.9	8.0	-30	7	(3)	9	(4)	155	
67	9	27	438	520	1246	119.3	8.0	-36	12	(1)	16	(1)	156	
67	9	27	932	520	1245	45.6	8.0	-16	9	(4)	12	(5)	157	
67	9	27	1110	520	1245	21.1	8.0	-22	13	(2)	18	(2)	158	
67	9	27	1425	520	1244	-27.9	1.5	-23	9	(4)	12	(5)	159	
67	9	27	1741	520	1243	-77.0	-12.8	-40	23	(3)	32	(4)	160	
67	9	27	1919	520	1243	-101.6	-7.0	-20	11	(3)	15	(4)	161	
67	9	27	2057	520	1242	-126.1	-4.0	-16	5	(2)	7	(2)	162	
67	9	27	2234	520	1242	-150.7	-1.5	-1	6	(2)	8	(2)	163	
67	9	28	150	530	1241	160.1	6.2	-5	4	(1)	5	(1)	164	
67	9	28	328	530	1241	135.6	7.5	-15	3	(2)	4	(2)	165	
67	9	28	506	530	1240	111.0	8.7	-49	12	(1)	17	(1)	166	
67	9	28	821	530	1240	61.9	7.6	-46	6	(2)	8	(2)	167	
67	9	28	959	530	1239	37.4	10.0	-72	15	(6)	21	(8)	168	
67	9	28	1137	530	1239	12.8	10.0	-58	7	(3)	10	(4)	169	
67	9	28	1452	530	1238	-36.2	-4.0	-38	10	(2)	14	(2)	170	
67	9	28	1630	530	1238	-60.7	-13.0	-51	18	(7)	26	(10)	171	
67	9	28	1807	530	1237	-85.3	-11.0	-123	50	(8)	72	(11)	172	
67	9	28	1946	530	1237	-109.8	-7.5	-46	9	(1)	13	(1)	173	
67	9	29	39	540	1236	176.4	3.0	-104	6	(3)	8	(4)	175	
67	9	29	533	540	1235	102.8	9.0	-102	38	(1)	56	(1)	177	
67	9	29	710	540	1234	78.2	9.0	-122	33	(1)	48	(1)	178	
67	9	29	848	540	1234	53.7	7.5	-99	12	(3)	17	(4)	179	
67	9	29	1204	540	1233	4.6	10.5	-67	15	(2)	22	(2)	181	
67	9	29	1342	540	1233	-19.9	7.0	-70	12	(3)	17	(4)	182	
67	9	29	1519	540	1232	-44.4	-8.0	-90	20	(4)	29	(5)	183	
67	9	29	1657	540	1232	-69.0	-13.0	-92	25	(7)	37	(10)	184	
67	9	29	2151	550	1231	-142.6	-2.5	-88	5	(1)	7	(1)	185	
67	9	29	2328	550	1230	-167.2	-0.5	-102	12	(1)	18	(1)	186	
67	9	30	244	550	1230	143.6	8.0	-87	8	(1)	12	(1)	188	
67	9	30	422	550	1229	119.1	7.2	-68	5	(2)	7	(3)	189	
67	9	30	737	550	1229	70.0	8.0	-49	2	(1)	3	(1)	190	
67	9	30	915	550	1228	45.4	7.5	-69	99	(99)	99	(99)	191	AMP. TOO BROAD TO CALCULATE
67	9	30	1053	550	1228	20.9	999.9	999	99	(99)	99	(99)	192	ELECTROJET NOT DISTINCT
67	9	30	1408	550	1227	-28.1	999.9	999	99	(99)	99	(99)	193	ELECTROJET NOT DISTINCT
67	9	30	1546	560	1227	-52.7	-10.5	-79	17	(3)	26	(4)	194	
67	9	30	1724	560	1226	-77.2	-12.6	-70	24	(4)	37	(6)	195	
67	9	30	2217	560	1225	-150.9	-2.5	-41	5	(2)	7	(3)	198	
67	9	30	2355	560	1225	-175.4	1.5	-58	9	(1)	14	(1)	199	
67	10	1	133	560	1225	159.9	7.0	-61	5	(1)	7	(1)	200	
67	10	1	311	560	1224	135.4	7.5	-59	9	(4)	14	(6)	201	
67	10	1	449	560	1224	110.8	8.0	-50	16	(3)	25	(4)	202	
67	10	1	626	560	1223	86.3	10.0	-46	16	(3)	25	(4)	203	
67	10	1	804	560	1223	61.7	8.5	-57	11	(2)	17	(3)	204	
67	10	1	942	570	1223	37.2	8.0	999	99	(99)	99	(99)	205	ELECTROJET TOO BROAD TO CAL.
67	10	1	1258	570	1222	-11.8	9.5	-31	7	(1)	11	(1)	207	
67	10	1	1435	570	1221	-36.4	-5.5	-30	13	(3)	20	(4)	208	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
67	10	1	2244	570	1219	-159.1	-1.5	-33	5	(1)	8	(1)	211	
67	10	2	22	570	1219	176.2	3.5	-35	7	(1)	11	(1)	212	
67	10	2	516	580	1218	102.6	9.0	-44	18	(2)	29	(3)	214	
67	10	2	655	580	1218	78.0	8.5	-37	15	(1)	24	(1)	215	
67	10	2	1009	580	1217	28.9	9.0	-27	7	(2)	11	(3)	216	
67	10	2	1147	580	1216	4.4	11.0	-24	4	(3)	6	(4)	217	
67	10	2	1324	580	1216	-20.1	7.5	-25	2	(1)	3	(1)	218	
67	10	2	1956	580	1214	-118.3	-4.5	-28	0	(3)	0	(4)	220	
67	10	3	227	590	1213	143.4	7.3	-22	12	(2)	20	(3)	222	
67	10	3	405	590	1213	118.9	7.5	-33	15	(1)	25	(1)	223	
67	10	3	858	590	1212	45.3	8.0	-12	6	(1)	10	(1)	224	
67	10	3	1036	590	1211	20.7	6.5	-19	9	(2)	15	(3)	225	
67	10	3	1214	590	1211	-3.7	10.0	-24	8	(2)	13	(3)	226	
67	10	3	2022	600	1209	-126.5	-4.5	-27	2	(2)	3	(3)	228	
67	10	3	2200	600	1208	-151.0	-2.0	-23	2	(1)	3	(1)	229	
67	10	3	2338	600	1208	-175.6	0.5	-24	7	(4)	12	(6)	230	
67	10	4	609	600	1207	86.1	9.5	-34	15	(4)	25	(6)	232	
67	10	4	747	600	1206	61.6	8.0	-28	12	(1)	20	(1)	233	
67	10	4	924	600	1206	37.0	6.0	-16	2	(1)	3	(1)	234	
67	10	4	1103	600	1205	12.5	12.0	-16	2	(1)	3	(1)	235	
67	10	4	1240	610	1205	-12.0	8.0	-22	8	(1)	14	(1)	236	
67	10	4	1418	610	1205	-36.5	-5.0	-28	14	(3)	24	(5)	237	
67	10	4	1556	610	1204	-61.1	-13.5	-30	12	(1)	21	(1)	238	
67	10	4	1734	610	1204	-85.6	-11.5	-31	16	(4)	28	(7)	239	
67	10	4	1911	610	1203	-110.2	-6.0	-23	7	(1)	12	(1)	240	
67	10	4	2049	610	1203	-134.7	-2.8	-23	3	(1)	5	(1)	241	
67	10	5	5	610	1202	176.1	3.0	-36	12	(2)	21	(3)	242	
67	10	5	143	610	1202	151.6	7.2	-32	11	(2)	19	(3)	243	
67	10	5	636	620	1201	77.9	9.5	-29	15	(2)	27	(3)	244	
67	10	5	814	620	1200	53.4	7.5	-26	11	(3)	19	(5)	245	
67	10	5	1129	620	1200	4.3	10.0	-18	8	(2)	14	(3)	247	
67	10	5	1307	620	1159	-20.2	6.0	-23	7	(2)	12	(3)	248	
67	10	5	1445	620	1159	-44.7	-8.0	-41	25	(3)	45	(5)	249	
67	10	5	1623	620	1158	-69.3	-13.5	-57	27	(2)	48	(3)	250	
67	10	5	1801	620	1158	-93.8	-9.0	-50	22	(2)	39	(3)	251	
67	10	5	1938	620	1158	-118.4	-4.5	-30	10	(3)	18	(5)	252	
67	10	5	2116	620	1157	-142.9	-2.8	-26	8	(1)	14	(1)	253	
67	10	6	32	630	1157	167.9	5.5	-32	9	(2)	16	(3)	254	
67	10	6	209	630	1156	143.3	7.2	-40	17	(3)	31	(5)	255	
67	10	6	347	630	1156	118.8	7.8	-64	27	(1)	50	(1)	256	
67	10	6	703	630	1155	69.7	8.0	-31	17	(2)	31	(3)	257	
67	10	6	841	630	1155	45.2	8.0	-28	16	(1)	29	(1)	258	
67	10	6	1018	630	1154	20.6	8.5	-30	13	(2)	24	(3)	259	
67	10	6	1512	630	1153	-52.9	-12.0	-41	23	(1)	42	(1)	260	
67	10	6	1650	640	1153	-77.5	-13.0	-44	24	(1)	45	(1)	261	
67	10	6	1827	640	1152	-102.0	-7.5	-28	15	(3)	28	(5)	262	
67	10	6	2005	640	1152	-126.6	-4.0	-23	7	(1)	13	(1)	263	
67	10	6	2321	640	1151	-175.7	2.0	-23	6	(1)	11	(1)	264	
67	10	7	58	640	1151	159.7	6.0	-31	7	(1)	13	(1)	265	
67	10	7	730	640	1149	61.5	8.0	-12	17	(1)	32	(1)	266	
67	10	7	907	640	1149	36.9	9.0	-36	17	(1)	32	(1)	267	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP.	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
67	10	7	1401	650	1148	-36.6	-5.7	-28	16	(4)	31	(7)	268	
67	10	7	1716	650	1147	-85.7	-11.2	-36	20	(1)	38	(1)	270	
67	10	7	1854	650	1147	-110.2	-5.0	-16	9	(4)	17	(7)	271	
67	10	7	2032	650	1146	-134.8	-3.0	-20	9	(2)	17	(3)	272	
67	10	7	2209	650	1146	-159.3	-0.8	-24	10	(1)	19	(1)	273	
67	10	8	125	654	1145	151.5	7.0	-24	9	(1)	17	(1)	275	
67	10	8	303	655	1145	126.9	7.8	-36	10	(2)	19	(3)	276	
67	10	8	618	657	1144	77.8	9.0	-1	8	(3)	15	(5)	277	
67	10	8	756	658	1144	53.3	8.1	3	13	(1)	25	(1)	278	
67	10	8	934	659	1143	28.7	9.5	9	5	(2)	9	(3)	279	
67	10	8	1112	660	1143	4.2	10.9	1	6	(3)	11	(5)	280	
67	10	8	1250	660	1142	-20.2	7.0	-17	14	(8)	27	(15)	281	
67	10	8	1605	663	1142	-69.3	-13.0	-27	20	(1)	40	(2)	283	
67	10	8	1741	664	1141	-93.9	-9.0	-20	14	(3)	28	(6)	284	
67	10	8	1921	664	1141	-118.4	-4.0	-11	10	(1)	20	(2)	285	
67	10	8	2059	665	1140	-143.0	-2.5	-15	6	(1)	12	(2)	286	
67	10	8	2236	666	1140	-167.5	-1.0	-16	7	(1)	14	(2)	287	
67	10	9	14	667	1140	167.8	5.0	-6	5	(1)	10	(2)	288	
67	10	9	152	668	1139	143.3	8.0	-21	10	(1)	20	(2)	289	
67	10	9	330	669	1139	118.7	7.5	-17	11	(3)	22	(6)	290	
67	10	9	645	671	1138	69.6	8.5	-1	8	(1)	16	(2)	291	
67	10	9	823	672	1138	45.1	8.0	-1	8	(1)	16	(2)	292	
67	10	9	1001	673	1137	20.6	8.5	-18	9	(1)	18	(2)	293	
67	10	9	1139	674	1137	-3.9	9.0	-15	8	(2)	16	(4)	294	
67	10	9	1316	675	1137	-28.4	2.5	-12	5	(1)	10	(2)	295	
67	10	9	1454	676	1136	-53.0	-12.0	-36	18	(4)	37	(8)	296	
67	10	9	1632	677	1136	-77.5	-13.0	-27	14	(1)	28	(2)	297	
67	10	9	1810	678	1135	-102.1	-6.0	-51	10	(3)	20	(6)	298	
67	10	9	2125	679	1135	-151.2	-2.0	-56	8	(3)	16	(6)	299	
67	10	9	2303	680	1134	-175.7	1.0	-70	9	(2)	18	(4)	300	
67	10	10	41	681	1134	159.6	6.0	999	99	(99)	99	(99)	301	ELECTROJET TOO BROAD TO CAL.
67	10	10	356	683	1133	110.6	9.0	-62	20	(6)	41	(12)	303	
67	10	10	712	685	1132	61.5	8.0	-41	12	(2)	25	(4)	304	
67	10	10	1205	688	1131	-12.1	7.5	-70	8	(5)	16	(10)	305	
67	10	10	1659	690	1130	-85.7	-11.0	-48	11	(1)	23	(2)	307	
67	10	10	1836	691	1130	-110.3	-6.5	-55	12	(1)	25	(2)	308	
67	10	10	2152	693	1129	-159.4	-1.0	-74	10	(3)	21	(6)	310	
67	10	11	1232	702	1125	-20.3	6.5	-34	8	(1)	17	(2)	313	
67	10	11	1410	703	1125	-44.8	-8.0	-54	27	(7)	59	(15)	314	
67	10	11	1547	704	1125	-69.4	-14.2	-74	27	(6)	59	(13)	315	
67	10	11	1725	699	1124	-93.9	-9.0	-35	8	(3)	17	(6)	316	
67	10	11	1903	706	1124	-118.4	-4.0	-34	10	(1)	22	(2)	317	
67	10	11	2041	706	1124	-143.0	-3.0	-34	9	(4)	19	(8)	318	
67	10	11	2219	707	1123	-167.5	-0.5	-22	7	(1)	15	(2)	319	
67	10	11	2356	708	1123	167.8	5.5	-26	4	(1)	8	(2)	320	
67	10	12	134	709	1123	143.3	8.0	-57	10	(1)	22	(2)	321	
67	10	12	312	710	1122	118.7	8.0	-45	11	(1)	24	(2)	322	
67	10	12	805	713	1121	45.1	7.5	-32	3	(1)	6	(2)	324	
67	10	12	943	714	1121	20.6	6.9	-32	3	(2)	6	(4)	325	
67	10	12	1121	715	1120	-3.9	9.5	-31	8	(3)	18	(6)	326	
67	10	12	1259	715	1120	-28.4	0.8	-30	8	(5)	18	(11)	327	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP.	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
67	10	12	1436	717	1119	-53.0	-11.2	-37	20	(1)	45	(2)	328	
67	10	12	1614	718	1119	-77.5	-12.5	-61	23	(4)	52	(9)	329	
67	10	12	1752	719	1119	-102.1	-6.5	-26	8	(1)	18	(2)	330	
67	10	12	1929	719	1118	-126.6	-4.2	-30	4	(2)	9	(4)	331	
67	10	12	2107	720	1118	-151.2	-1.3	-28	8	(2)	18	(4)	332	
67	10	12	2245	721	1117	-175.7	1.8	-30	8	(3)	18	(6)	333	
67	10	13	23	722	1117	159.7	6.8	-59	6	(3)	13	(6)	334	
67	10	13	516	725	1116	86.0	9.3	-37	15	(6)	34	(13)	336	
67	10	13	654	726	1116	61.5	8.1	-38	14	(1)	32	(2)	337	
67	10	13	832	726	1115	36.9	8.8	-34	7	(1)	16	(2)	338	
67	10	13	1010	727	1115	12.4	10.0	-36	6	(3)	13	(6)	339	
67	10	13	1147	728	1114	-12.1	8.0	-41	6	(4)	13	(9)	340	
67	10	13	1325	729	1114	-36.6	-4.0	-46	13	(1)	30	(2)	341	
67	10	13	1503	730	1114	-61.2	-13.3	-42	18	(3)	41	(6)	342	
67	10	13	1641	731	1113	-85.7	-10.4	-35	10	(2)	23	(4)	343	
67	10	13	1819	732	1113	-110.2	-7.6	-35	4	(1)	9	(2)	344	
67	10	13	2134	734	1112	-159.3	-1.6	-32	6	(2)	14	(4)	345	
67	10	14	50	736	1111	151.5	7.0	-28	7	(2)	16	(4)	346	
67	10	14	227	737	1111	126.9	8.0	-29	7	(1)	16	(2)	347	
67	10	14	721	739	1110	53.3	8.0	-35	5	(2)	11	(4)	348	
67	10	14	1036	741	1109	4.2	11.0	-22	6	(3)	14	(7)	349	
67	10	14	1214	742	1109	-20.2	6.0	-24	12	(2)	28	(4)	350	
67	10	14	1707	745	1107	-93.9	-10.3	-23	10	(4)	24	(9)	351	
68	1	12	422	745	1354	145.0	9.0	-31	4	(2)	9	(4)	5	
68	1	12	560	744	1354	120.4	8.0	-34	7	(1)	16	(2)	6	
68	1	12	1408	739	1352	-2.0	9.0	-22	2	(1)	4	(2)	9	
68	1	12	1723	737	1351	-51.1	-10.5	-39	12	(2)	28	(4)	11	
68	1	12	2039	735	1350	-100.1	-9.0	-59	13	(1)	30	(2)	13	
68	1	12	2216	735	1350	-124.6	-4.5	-41	1	(1)	2	(2)	14	
68	1	12	2354	734	1350	-149.1	-2.0	-40	3	(1)	7	(2)	15	
68	1	13	447	731	1348	137.2	7.0	-44	5	(2)	11	(4)	17	
68	1	13	1118	727	1346	39.2	8.0	-37	13	(4)	30	(9)	19	
68	1	13	1611	724	1345	-34.2	-1.0	-26	4	(1)	9	(2)	22	
68	1	13	2241	720	1344	-132.3	-4.0	-55	7	(1)	15	(2)	25	
68	1	14	19	719	1343	-156.8	-1.0	-57	6	(3)	13	(6)	26	
68	1	14	334	717	1342	154.1	9.0	-39	2	(1)	4	(2)	28	
68	1	14	512	716	1342	129.6	7.5	-41	5	(3)	11	(6)	29	
68	1	14	649	715	1341	105.0	8.5	-31	4	(1)	9	(2)	30	
68	1	14	1142	713	1340	31.5	8.0	-23	6	(2)	13	(4)	31	
68	1	14	1458	711	1339	-17.4	7.0	-24	3	(1)	6	(2)	33	
68	1	14	1951	708	1338	-91.0	-7.0	-42	4	(1)	8	(2)	34	
68	1	15	44	705	1336	-164.5	-0.5	-37	2	(1)	4	(2)	37	
68	1	15	714	701	1335	97.4	9.0	-21	2	(1)	4	(2)	41	
68	1	15	1345	697	1333	-0.6	9.0	-31	5	(2)	10	(4)	43	
68	1	15	1522	696	1333	-25.1	3.5	-40	7	(2)	15	(4)	44	
68	1	15	1700	695	1332	-49.6	-10.0	-38	8	(4)	17	(8)	45	
68	1	15	1838	694	1332	-74.1	-13.0	-39	4	(2)	8	(4)	46	
68	1	16	246	689	1330	163.2	6.0	-36	3	(1)	6	(2)	50	
68	1	16	424	688	1329	138.7	8.0	-35	4	(1)	8	(2)	51	
68	1	16	739	686	1328	89.7	8.5	-32	8	(1)	16	(2)	53	
68	1	16	1409	682	1327	-8.3	9.0	-21	7	(2)	14	(4)	57	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	1	16	1725	680	1326	-57.3	-13.0	-56	23	(4)	47	(8)	59	
68	1	16	2355	676	1324	-155.3	-1.5	-21	3	(1)	6	(2)	63	
68	1	17	133	675	1324	-179.8	2.5	-20	4	(1)	8	(2)	64	
68	1	17	311	674	1323	155.6	7.5	-10	2	(1)	4	(2)	65	
68	1	17	1434	667	1321	-15.9	7.5	-30	7	(1)	14	(2)	71	
68	1	17	1612	666	1320	-40.4	-5.5	-43	22	(5)	44	(10)	72	
68	1	17	1749	665	1320	-64.9	-14.0	-46	23	(4)	46	(8)	73	
68	1	17	2105	664	1319	-114.0	-4.5	-29	11	(2)	22	(4)	75	
68	1	18	20	662	1318	-163.0	-1.0	-34	6	(1)	11	(1)	77	
68	1	18	1321	654	1315	0.8	10.0	-16	7	(1)	13	(1)	81	
68	1	18	1814	651	1313	-72.6	-13.0	-23	10	(2)	19	(3)	82	
68	1	18	1952	650	1313	-97.1	-9.0	-19	3	(1)	5	(1)	83	
68	1	19	222	646	1311	164.8	6.0	-9	4	(1)	7	(1)	86	
68	1	19	360	645	1311	140.3	8.0	-14	9	(2)	17	(3)	87	
68	1	19	537	644	1310	115.7	8.0	-24	7	(2)	13	(3)	88	
68	1	19	853	642	1309	66.7	8.5	-11	3	(1)	5	(1)	89	
68	1	19	1701	637	1307	-55.7	-12.0	-83	35	(1)	66	(1)	92	
68	1	19	2016	635	1307	-104.7	-6.5	-19	8	(1)	15	(1)	93	
68	1	19	2154	634	1306	-129.3	-3.5	-46	13	(1)	24	(1)	94	
68	1	19	2331	633	1306	-153.8	-1.5	-41	8	(1)	14	(1)	95	
68	1	20	740	628	1304	83.6	9.0	-12	2	(1)	3	(1)	97	
68	1	20	917	627	1303	59.1	8.5	-11	6	(1)	11	(1)	98	
68	1	20	1055	626	1303	34.6	10.0	-28	5	(2)	9	(3)	99	
68	1	20	1233	625	1302	10.1	10.0	-25	4	(2)	7	(3)	100	
68	1	20	1410	624	1302	-14.3	8.0	-49	7	(4)	12	(7)	101	
68	1	20	1548	623	1302	-38.8	-5.0	-21	12	(3)	21	(5)	102	
68	1	20	1725	622	1301	-63.4	-13.5	-30	17	(4)	30	(7)	103	
68	1	20	1903	621	1301	-87.9	-10.5	-44	21	(3)	38	(5)	104	
68	1	20	2218	619	1300	-136.9	-3.5	-23	7	(2)	12	(3)	106	
68	1	20	2356	618	1300	-161.4	-1.8	-18	5	(2)	9	(3)	107	
68	1	21	134	617	1259	174.0	3.0	-21	8	(1)	14	(1)	108	
68	1	21	311	616	1258	149.5	8.2	-15	10	(3)	17	(5)	109	
68	1	21	449	615	1258	125.0	7.2	-30	11	(3)	19	(5)	110	
68	1	21	942	612	1257	51.5	7.0	-24	10	(4)	17	(7)	112	
68	1	21	1257	610	1256	2.4	11.0	-26	5	(1)	8	(1)	114	
68	1	21	1435	609	1256	-22.0	5.5	-38	14	(3)	24	(5)	115	
68	1	21	1612	608	1255	-46.5	-8.3	-50	34	(2)	59	(3)	116	
68	1	21	1750	607	1255	-71.0	-13.5	-42	22	(2)	38	(3)	117	
68	1	21	1928	607	1254	-95.5	-8.3	-26	15	(2)	26	(3)	118	
68	1	21	2105	606	1254	-120.0	-4.7	-14	5	(1)	8	(1)	119	
68	1	22	158	603	1253	166.4	6.5	-15	4	(2)	6	(3)	121	
68	1	22	336	601	1252	141.9	8.0	-30	16	(1)	27	(1)	122	
68	1	22	513	600	1252	117.4	8.2	-21	15	(2)	25	(3)	123	
68	1	22	828	599	1251	68.3	9.0	-4	9	(3)	15	(5)	124	
68	1	22	1006	598	1250	43.8	8.0	-14	5	(2)	8	(3)	125	
68	1	22	1459	595	1249	-29.6	1.3	-39	14	(3)	23	(5)	126	
68	1	22	1637	594	1249	-54.1	-12.0	-62	27	(2)	45	(3)	127	
68	1	22	1814	593	1249	-78.6	-13.0	-38	15	(3)	25	(5)	128	
68	1	22	1952	593	1248	-103.1	-6.9	-31	15	(3)	25	(5)	129	
68	1	22	2307	590	1247	-152.1	-1.6	-10	10	(1)	16	(1)	130	
68	1	23	45	589	1247	-176.6	2.0	-14	2	(1)	3	(1)	131	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP.	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	1	23	223	588	1246	158.8	7.0	-27	13	(2)	21	(3)	132	
68	1	23	400	587	1246	134.3	8.0	-26	14	(1)	23	(1)	133	
68	1	23	538	586	1245	109.8	8.8	-22	16	(1)	26	(1)	134	
68	1	23	716	585	1245	85.2	9.7	-18	12	(2)	19	(3)	135	
68	1	23	1346	582	1243	-12.7	9.6	-19	15	(4)	24	(6)	136	
68	1	23	1701	580	1243	-61.7	-13.6	-38	21	(2)	34	(3)	137	
68	1	23	1839	579	1242	-86.2	-10.3	-22	9	(3)	14	(4)	138	
68	1	23	2017	578	1242	-110.7	-6.0	-20	5	(2)	8	(3)	139	
68	1	23	2154	577	1241	-135.2	-2.5	-6	3	(1)	4	(1)	140	
68	1	23	2332	576	1241	-159.7	-0.8	-13	10	(1)	16	(1)	141	
68	1	24	109	575	1240	175.7	4.3	-20	7	(3)	11	(4)	142	
68	1	24	247	574	1240	151.2	7.2	-19	14	(5)	22	(8)	143	
68	1	24	425	573	1240	126.7	8.5	-26	13	(1)	20	(1)	144	
68	1	24	740	572	1239	77.6	7.8	-8	3	(1)	4	(1)	145	
68	1	24	2041	565	1236	-118.3	-4.4	-32	9	(1)	14	(1)	147	
68	1	24	2356	563	1235	-167.3	-0.8	-22	10	(1)	15	(1)	148	
68	1	25	133	562	1234	168.1	5.2	-19	6	(1)	9	(1)	149	
68	1	25	449	560	1233	119.1	8.0	-25	16	(2)	25	(3)	150	
68	1	25	804	558	1233	70.0	9.3	2	9	(1)	13	(1)	151	
68	1	25	942	557	1232	45.5	8.0	-4	9	(2)	13	(3)	152	
68	1	25	1257	555	1231	-3.4	10.0	-11	10	(2)	15	(3)	154	
68	1	25	1435	554	1231	-27.9	2.0	-24	14	(3)	21	(4)	155	
68	1	25	1612	553	1231	-52.4	-11.2	-16	16	(1)	24	(1)	156	
68	1	25	1750	553	1230	-76.9	-12.8	-10	9	(2)	13	(3)	157	
68	1	25	2105	551	1229	-125.9	-4.0	-10	7	(2)	10	(3)	159	
68	1	25	2243	550	1229	-150.4	-1.8	-1	6	(2)	9	(3)	160	
68	1	26	513	546	1227	111.5	8.0	-12	10	(2)	15	(3)	163	
68	1	26	651	546	1227	87.0	8.8	-18	13	(2)	19	(3)	164	
68	1	26	1144	543	1225	13.5	10.9	-15	9	(1)	13	(1)	165	
68	1	26	1459	541	1225	-35.5	-3.0	-30	20	(7)	29	(10)	166	
68	1	26	1637	540	1224	-60.0	-12.8	-41	20	(5)	29	(7)	167	
68	1	26	1952	539	1223	-109.0	-6.0	2	4	(2)	5	(2)	169	
68	1	26	2130	538	1223	-133.5	-2.8	-1	10	(1)	14	(1)	170	
68	1	27	400	535	1221	128.4	8.0	-2	5	(1)	7	(1)	171	
68	1	27	538	534	1221	103.9	8.2	-2	6	(1)	8	(1)	172	
68	1	27	853	532	1220	54.9	7.4	-4	7	(2)	10	(2)	173	
68	1	27	1208	531	1219	5.9	10.0	-16	11	(2)	15	(2)	174	
68	1	27	1346	530	1219	-18.5	7.0	-29	19	(4)	27	(5)	175	
68	1	27	1523	529	1218	-43.0	-7.0	-39	31	(2)	44	(2)	176	
68	1	27	1839	527	1218	-92.0	-9.8	-25	10	(4)	14	(5)	177	
68	1	27	2016	527	1217	-116.6	-4.5	-23	10	(1)	14	(1)	178	
68	1	27	2154	526	1217	-141.1	-2.8	-40	12	(1)	17	(1)	179	
68	1	27	2332	525	1216	-165.6	-1.0	-37	11	(4)	15	(5)	180	
68	1	28	109	524	1216	169.8	4.8	-47	15	(1)	21	(1)	181	
68	1	28	247	523	1215	145.3	7.5	-40	19	(3)	26	(4)	182	
68	1	28	424	522	1214	120.8	8.0	-43	17	(4)	24	(5)	183	
68	1	28	740	521	1214	71.8	8.0	-22	9	(1)	12	(1)	184	
68	1	28	917	520	1213	47.3	7.3	999	99	(99)	99	(99)	185	MISSING OR INCOMPLETE DATA
68	1	28	1055	519	1213	22.8	9.0	-23	11	(1)	15	(1)	186	
68	1	28	1233	518	1213	-1.6	10.0	-30	14	(2)	19	(2)	187	
68	1	28	1410	517	1213	-26.1	3.0	-24	18	(2)	25	(2)	188	

YR.	MON.	DAY.	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	1	28	1548	517	1212	-50.6	-10.0	-41	29	(1)	40	(1)	189	
68	1	28	1725	516	1212	-75.1	-12.8	-42	17	(2)	23	(2)	190	
68	1	28	1903	515	1211	-99.6	-7.5	-44	12	(2)	16	(2)	191	
68	1	28	2041	515	1211	-124.1	-4.0	-28	10	(1)	13	(1)	192	
68	1	28	2218	514	1211	-148.6	-1.8	-27	7	(1)	9	(1)	193	
68	1	28	2356	513	1210	-173.1	0.7	-61	13	(1)	17	(1)	194	
68	1	29	133	512	1210	162.3	6.0	-61	18	(1)	24	(1)	195	
68	1	29	311	511	1209	137.8	7.2	-65	23	(5)	31	(6)	196	
68	1	29	449	510	1209	113.3	8.5	-36	99	(99)	99	(99)	197	MISSING OR INCOMPLETE DATA
68	1	29	804	509	1208	64.3	8.0	-26	14	(4)	19	(5)	198	
68	1	29	941	508	1207	39.8	8.5	-35	99	(99)	99	(99)	199	MISSING OR INCOMPLETE DATA
68	1	29	1119	507	1207	15.3	10.0	-26	4	(2)	5	(2)	200	
68	1	29	1257	507	1207	-9.1	8.3	-38	23	(1)	31	(1)	201	
68	1	29	1434	506	1206	-33.6	-1.3	-29	15	(4)	20	(5)	202	
68	1	29	1612	505	1206	-58.1	-13.2	-45	28	(2)	37	(2)	203	
68	1	29	1750	504	1206	-82.7	-12.0	-43	26	(1)	35	(1)	204	
68	1	29	1927	504	1205	-107.2	-6.0	-30	12	(1)	16	(1)	205	
68	1	29	2242	502	1204	-156.2	-1.0	-59	17	(1)	22	(1)	206	
68	1	30	20	502	1204	179.2	2.8	-46	9	(2)	12	(2)	207	
68	1	30	158	501	1203	154.7	7.0	-46	12	(4)	16	(5)	208	
68	1	30	1321	496	1201	-16.7	7.8	-43	25	(3)	32	(3)	209	
68	1	30	1459	495	1200	-41.2	-5.0	-32	18	(1)	23	(1)	210	
68	1	30	1636	494	1200	-65.7	-14.0	-53	24	(1)	31	(1)	211	
68	1	30	1814	494	1159	-90.2	-9.9	-26	15	(3)	19	(3)	212	
68	1	31	44	491	1158	171.7	4.0	-27	26	(1)	33	(1)	9	
68	1	31	222	490	1157	147.2	7.7	-34	27	(3)	35	(3)	10	
68	1	31	359	489	1157	122.7	7.6	-41	18	(1)	23	(1)	11	
68	1	31	537	489	1156	98.2	9.7	-26	14	(3)	18	(3)	12	
68	1	31	1523	485	1154	-48.7	-9.0	-45	37	(5)	47	(6)	14	
68	1	31	1700	484	1154	-73.2	-13.0	-36	21	(3)	26	(3)	15	
68	1	31	1838	483	1153	-97.7	-7.9	-26	12	(1)	15	(1)	16	
68	1	31	2015	483	1153	-122.2	-4.0	-21	8	(2)	10	(2)	17	
68	1	31	2153	482	1152	-146.7	-2.5	-23	18	(1)	22	(1)	18	
68	2	1	916	478	1148	41.7	8.4	-16	17	(1)	21	(1)	19	
68	2	1	1054	477	1149	17.2	9.5	999	99	(99)	99	(99)	20	MISSING OR INCOMPLETE DATA
68	2	1	1231	476	1148	-7.2	9.5	-34	32	(3)	39	(3)	21	
68	2	1	1409	476	1148	-31.7	0.0	-14	17	(9)	21	(11)	22	
68	2	1	1547	475	1148	-56.2	-11.9	-34	28	(1)	34	(1)	23	
68	2	1	1724	475	1147	-80.7	-12.0	-27	20	(3)	24	(3)	24	
68	2	1	1902	474	1147	-105.2	-6.0	-51	24	(1)	29	(1)	25	
68	2	1	2040	474	1147	-129.7	-3.3	-36	22	(2)	27	(2)	26	
68	2	1	2217	473	1146	-154.2	-1.5	-42	28	(1)	34	(1)	27	
68	2	2	132	471	1145	156.7	6.5	-42	19	(2)	23	(2)	29	
68	2	2	310	471	1145	132.2	7.8	-53	23	(5)	28	(6)	30	
68	2	2	625	470	1144	83.2	9.8	-26	20	(5)	24	(6)	31	
68	2	2	803	469	1144	58.7	8.0	-33	24	(1)	29	(1)	32	
68	2	2	940	468	1143	34.2	10.0	-55	22	(5)	26	(6)	33	
68	2	2	1118	468	1143	9.7	10.6	-28	19	(2)	23	(2)	34	
68	2	2	1256	467	1142	-14.7	8.0	-43	32	(2)	38	(2)	35	
68	2	2	1433	467	1142	-39.2	-4.5	-65	38	(3)	46	(3)	36	
68	2	2	1611	466	1142	-63.7	-13.5	-34	17	(6)	20	(7)	37	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	2	2	1926	465	1141	-112.7	-5.0	-47	19	(3)	22	(3)	38	
68	2	2	2104	465	1140	-137.2	-3.0	-95	41	(3)	49	(3)	39	
68	2	2	2241	464	1140	-161.7	-1.0	-78	36	(1)	43	(1)	40	
68	2	3	1004	460	1137	26.7	9.2	-45	15	(5)	17	(5)	41	
68	2	3	1319	459	1136	-22.2	5.0	-43	31	(3)	36	(3)	42	
68	2	3	1457	458	1136	-46.7	-8.2	-89	44	(2)	52	(2)	43	
68	2	3	1635	458	1136	-71.2	-13.5	-103	38	(2)	45	(2)	44	
68	2	3	1950	457	1135	-120.2	-4.5	-36	3	(1)	3	(1)	46	
68	2	3	2127	456	1134	-144.7	-2.4	-54	26	(1)	30	(1)	47	
68	2	4	220	455	1133	141.7	8.0	-52	29	(1)	34	(1)	48	
68	2	4	358	454	1133	117.2	8.0	-66	38	(2)	44	(2)	49	
68	2	4	1206	452	1131	-5.2	9.3	-60	27	(1)	31	(1)	50	
68	2	4	1343	451	1130	-29.7	1.2	-57	28	(8)	32	(9)	51	
68	2	4	1521	451	1130	-54.2	-12.1	-78	24	(8)	27	(9)	52	
68	2	4	1659	450	1129	-78.7	-12.5	-55	24	(5)	27	(5)	53	
68	2	4	1836	450	1129	-103.2	-6.5	-45	17	(2)	19	(2)	54	
68	2	4	2014	450	1129	-127.7	-3.6	-43	15	(1)	17	(1)	55	
68	2	4	2151	449	1128	-152.2	-1.7	-32	11	(1)	12	(1)	56	
68	2	4	2329	449	1128	-176.7	2.0	-52	26	(3)	30	(3)	57	
68	2	5	106	448	1127	158.7	6.2	-56	32	(1)	36	(1)	3	
68	2	5	244	448	1127	134.2	7.5	-55	28	(4)	32	(4)	4	
68	2	5	559	447	1126	85.2	9.0	-43	30	(7)	34	(8)	5	
68	2	5	737	446	1126	60.7	8.0	-38	25	(6)	28	(6)	6	
68	2	5	914	446	1125	36.2	9.5	-41	14	(2)	16	(2)	7	
68	2	5	1052	445	1125	11.7	10.5	-40	15	(3)	17	(3)	8	
68	2	5	1230	445	1124	-12.7	8.3	-53	38	(1)	43	(1)	9	
68	2	5	1407	444	1124	-37.1	-3.5	-48	31	(3)	35	(3)	10	
68	2	5	1545	444	1124	-61.6	-14.4	-38	15	(6)	17	(6)	11	
68	2	5	1722	444	1123	-86.1	-11.0	-37	10	(1)	11	(1)	12	
68	2	5	1900	443	1123	-110.6	-5.9	-34	7	(1)	7	(1)	13	
68	2	5	2038	443	1122	-135.1	-3.5	-43	6	(4)	6	(4)	14	
68	2	5	2215	443	1122	-159.6	0.8	-47	20	(1)	22	(1)	15	
68	2	5	2353	442	1122	175.8	3.5	-35	16	(3)	18	(3)	16	
68	2	6	130	442	1121	151.3	7.3	-43	29	(2)	32	(2)	17	
68	2	6	628	441	1120	77.8	9.5	-38	31	(1)	35	(1)	18	
68	2	6	801	440	1120	53.3	8.2	-37	32	(1)	36	(1)	19	
68	2	6	938	440	1119	28.8	9.0	-32	22	(1)	24	(1)	20	
68	2	6	1116	439	1119	4.3	10.1	-34	22	(4)	24	(4)	21	
68	2	6	1258	439	1118	-20.1	6.6	-27	24	(7)	26	(7)	22	
68	2	6	1431	438	1118	-44.6	-7.0	-32	17	(4)	19	(4)	23	
68	2	6	1609	438	1118	-69.1	-13.5	-36	19	(1)	21	(1)	24	
68	2	6	1746	438	1117	-93.6	-9.8	-28	16	(1)	17	(1)	25	
68	2	6	1924	438	1117	-118.1	-5.0	-26	10	(1)	11	(1)	26	
68	2	7	16	437	1115	168.3	4.5	-27	18	(1)	20	(1)	27	
68	2	7	332	436	1115	119.3	8.2	-29	21	(5)	23	(5)	28	
68	2	7	647	435	1114	70.4	8.4	-14	18	(1)	19	(1)	29	
68	2	7	1139	434	1113	-3.0	9.6	-37	39	(4)	43	(4)	30	
68	2	7	1317	434	1112	-27.5	2.5	-22	29	(2)	32	(2)	31	
68	2	7	1632	433	1111	-76.5	-12.0	-7	0	(1)	0	(1)	32	
68	2	7	2125	433	1110	-150.0	-2.0	11	11	(1)	12	(1)	33	
68	2	8	533	431	1108	87.4	9.0	-15	16	(1)	17	(1)	34	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	2	8	710	431	1108	62.9	8.0	-17	20	(4)	21	(4)	35	
68	2	8	1026	430	1107	13.9	10.0	-22	16	(2)	17	(2)	36	
68	2	8	1341	430	1106	-34.9	-2.5	-34	23	(2)	25	(2)	37	
68	2	8	1518	429	1106	-59.4	-13.0	-23	10	(3)	10	(3)	38	
68	2	8	1655	431	1105	-83.9	-10.4	-24	22	(1)	24	(1)	39	
68	2	8	1833	429	1105	-108.4	-6.0	-39	23	(3)	25	(3)	40	
68	2	8	2011	429	1105	-132.9	-3.0	-17	4	(1)	4	(1)	41	
68	2	8	2149	429	1104	-157.4	-1.0	-59	18	(2)	19	(2)	42	
68	2	8	2326	428	1104	178.0	3.0	-45	17	(2)	18	(2)	43	
68	2	9	104	428	1103	153.5	7.0	-67	25	(1)	27	(1)	44	
68	2	9	241	427	1103	129.0	8.0	-63	14	(1)	15	(1)	45	
68	2	9	556	427	1102	79.9	8.8	-50	18	(4)	19	(4)	46	
68	2	9	734	427	1102	55.5	8.4	-64	27	(3)	29	(3)	47	
68	2	9	912	427	1101	31.0	9.5	-63	26	(3)	28	(3)	48	
68	2	9	1049	426	1101	6.5	10.5	-54	99	(99)	99	(99)	49	AMP. TOO BROAD TO CALCULATE
68	2	9	1227	426	1100	-17.9	7.5	-51	18	(5)	19	(5)	50	
68	2	9	1404	426	1100	-42.9	-6.5	-25	-2	(1)	-2	(1)	51	
68	2	9	1542	426	1100	-66.8	-13.7	-63	26	(2)	28	(2)	52	
68	2	9	1719	426	1059	-91.3	-9.5	-47	22	(1)	23	(1)	53	
68	2	9	1857	426	1059	-115.8	-5.0	-36	14	(1)	15	(1)	54	
68	2	9	2035	425	1058	-140.3	-2.2	-55	19	(2)	20	(2)	55	
68	2	9	2212	425	1058	-164.8	-0.5	-72	25	(2)	26	(2)	56	
68	2	9	2350	425	1058	170.6	4.6	-43	15	(2)	16	(2)	57	
68	2	10	127	425	1057	146.1	7.3	-65	35	(2)	37	(2)	58	
68	2	10	620	424	1056	72.6	9.0	-29	17	(1)	18	(1)	59	
68	2	10	758	424	1056	48.1	7.3	-42	27	(2)	29	(2)	60	
68	2	10	935	424	1055	23.6	9.5	-50	23	(1)	24	(1)	61	
68	2	10	1113	424	1055	-0.8	10.0	-30	20	(3)	21	(3)	62	
68	2	10	1250	423	1054	-25.2	4.0	-22	10	(1)	10	(1)	63	
68	2	10	1428	423	1054	-49.7	-10.0	-14	-5	(1)	-5	(1)	64	
68	2	10	1605	423	1054	-74.2	-12.0	-16	4	(3)	4	(3)	65	
68	2	10	1743	423	1053	-98.7	-7.8	-107	32	(5)	34	(5)	66	
68	2	10	1921	423	1053	-123.2	-4.0	-70	16	(2)	17	(2)	67	
68	2	10	2236	423	1052	-172.2	0.5	-120	43	(8)	46	(8)	68	
68	2	11	13	423	1052	163.2	5.5	-44	21	(3)	22	(3)	69	
68	2	11	151	422	1051	138.7	7.5	-70	22	(5)	23	(5)	70	
68	2	11	644	422	1050	65.2	8.5	-63	23	(5)	24	(5)	71	
68	2	11	821	422	1050	40.7	9.0	-81	20	(15)	21	(16)	72	
68	2	11	959	422	1049	16.3	10.5	-93	9	(12)	9	(12)	73	
68	2	11	1314	422	1048	-32.6	-0.5	-107	22	(10)	23	(10)	74	
68	2	11	1451	421	1048	-57.1	-11.5	-115	38	(9)	40	(9)	75	
68	2	11	1628	422	1048	-81.6	-11.5	-86	18	(12)	19	(12)	76	
68	2	11	1944	421	1047	-130.6	-3.5	-101	29	(2)	30	(2)	77	
68	2	11	2122	421	1046	-155.1	-1.0	-101	26	(5)	27	(5)	78	
68	2	11	2259	421	1046	-179.6	2.5	-77	11	(1)	11	(1)	79	
68	2	12	37	421	1046	155.8	5.7	-58	2	(1)	2	(1)	80	
68	2	12	529	421	1044	82.4	9.0	-51	13	(1)	13	(1)	82	
68	2	12	707	421	1044	57.9	8.3	-56	20	(1)	21	(1)	83	
68	2	12	1022	421	1043	8.9	11.5	-46	26	(3)	27	(3)	84	
68	2	12	1200	421	1043	-15.5	8.0	-47	39	(1)	41	(1)	85	
68	2	12	1337	421	1042	-40.0	-5.0	-50	30	(7)	31	(7)	86	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	2	12	1652	421	1042	-89.5	-10.5	-45	16	(1)	17	(1)	87	
68	2	12	1830	421	1041	-113.5	-5.5	-50	25	(3)	26	(3)	88	
68	2	12	2008	421	1041	-138.0	-3.5	-47	20	(9)	21	(9)	89	
68	2	13	238	420	1039	124.0	8.0	-35	20	(2)	21	(2)	91	
68	2	13	730	421	1038	50.5	8.5	-42	24	(2)	25	(2)	92	
68	2	13	908	420	1038	26.0	9.5	-34	9	(1)	9	(1)	93	
68	2	13	1400	420	1036	-47.7	-8.5	-34	21	(1)	22	(1)	94	
68	2	13	1538	420	1036	-71.8	-13.5	-41	31	(2)	32	(2)	95	
68	2	13	1716	421	1036	-96.3	-8.0	-44	30	(3)	31	(3)	96	
68	2	13	2208	421	1034	-169.8	0.0	-42	30	(3)	31	(3)	97	
68	2	13	2346	421	1034	165.6	5.3	-25	18	(1)	19	(1)	98	
68	2	14	124	421	1034	141.1	7.5	-16	16	(4)	17	(4)	99	
68	2	14	616	421	1032	67.6	8.5	-18	12	(2)	12	(2)	100	
68	2	14	754	421	1032	43.2	8.5	-28	26	(3)	27	(3)	101	
68	2	14	1108	421	1009	-5.7	9.5	-24	28	(2)	29	(2)	102	
68	2	14	1247	421	1031	-30.2	0.5	-14	5	(9)	5	(9)	103	
68	2	14	1424	421	1030	-54.7	-11.5	-24	21	(4)	22	(4)	104	
68	2	14	1917	421	1029	-128.2	-4.0	-23	27	(2)	28	(2)	105	
68	2	14	2054	421	1029	-152.7	-1.2	-13	27	(1)	28	(1)	106	
68	2	14	2232	422	1028	-177.2	2.0	-5	21	(4)	22	(4)	107	
68	2	15	325	422	1027	109.3	7.0	3	22	(1)	23	(1)	108	
68	2	15	502	422	1027	84.8	9.5	9	10	(1)	10	(1)	109	
68	2	15	817	422	1026	35.8	11.3	9	19	(3)	20	(3)	110	
68	2	15	955	422	1026	11.3	10.5	-29	23	(2)	24	(2)	111	
68	2	15	1132	422	1025	-13.1	8.7	-20	27	(5)	28	(5)	112	
68	2	15	1940	423	1023	-135.5	-3.0	-45	20	(1)	21	(1)	113	
68	2	15	2255	423	1022	175.4	3.3	-52	22	(5)	23	(5)	114	
68	2	16	33	423	1022	150.9	7.5	-37	24	(2)	25	(2)	115	
68	2	16	210	423	1022	126.4	8.2	-42	27	(1)	28	(1)	116	
68	2	16	525	424	1021	77.5	9.5	-6	16	(2)	17	(2)	117	
68	2	16	702	424	1020	53.0	7.2	-16	22	(1)	23	(1)	118	
68	2	16	1156	424	1019	-20.4	6.5	-27	15	(2)	16	(2)	120	
68	2	16	1333	424	1019	-44.9	-8.0	-28	7	(6)	7	(6)	121	
68	2	16	1511	425	1018	-69.4	-13.7	-64	20	(5)	21	(5)	122	
68	2	16	1826	425	1018	-118.4	-4.5	-57	34	(1)	36	(1)	123	
68	2	16	2141	426	1017	-167.3	-0.2	-30	23	(4)	24	(4)	124	
68	2	16	2138	426	1016	-168.1	4.7	-32	13	(4)	14	(4)	125	
68	2	17	726	427	1014	45.6	8.4	-18	22	(1)	23	(1)	126	
68	2	17	1041	427	1014	-3.2	9.5	-37	40	(2)	43	(2)	127	
68	2	17	1219	427	1013	-27.7	2.3	-20	24	(3)	26	(3)	128	
68	2	17	1356	427	1013	-52.2	-10.4	-33	26	(4)	28	(4)	129	
68	2	17	1534	428	1012	-76.7	-12.0	-19	17	(3)	18	(3)	130	
68	2	17	1712	428	1012	-101.2	-6.8	-22	14	(3)	15	(3)	131	
68	2	17	1849	428	1012	-125.7	-3.8	-22	8	(2)	8	(2)	132	
68	2	17	2027	429	1011	-150.2	-1.4	-21	18	(3)	19	(3)	133	
68	2	18	119	429	1010	136.3	8.0	-8	11	(1)	11	(1)	134	
68	2	18	257	429	1010	111.8	8.6	2	13	(2)	14	(2)	135	
68	2	18	612	430	1009	62.8	8.3	-16	18	(2)	19	(2)	136	
68	2	18	750	430	1008	38.3	9.5	-51	24	(3)	26	(3)	137	
68	2	18	927	431	1008	13.8	10.2	-46	21	(5)	23	(5)	138	
68	2	18	1105	431	1008	-10.6	9.0	-47	43	(2)	47	(2)	139	

YR.	MON.	DAY.	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	2	18	1242	431	1007	-35.0	-3.2	-55	28	(5)	30	(5)	140	
68	2	18	1420	431	1007	-59.5	-13.0	-60	28	(1)	30	(1)	141	
68	2	18	1557	429	1006	-84.0	-11.0	-73	46	(2)	50	(2)	142	
68	2	18	1735	432	1006	-108.5	-5.8	-53	26	(3)	28	(3)	143	
68	2	18	1912	432	1006	-133.0	-3.0	-36	21	(1)	23	(1)	144	
68	2	18	2050	433	1005	-157.5	-1.3	-20	13	(1)	14	(1)	145	
68	2	18	2227	433	1005	177.9	2.2	-26	15	(1)	16	(1)	146	
68	2	19	5	433	1004	153.4	7.5	-32	15	(2)	16	(2)	147	
68	2	19	143	433	1004	129.0	8.3	-44	17	(2)	18	(2)	148	
68	2	19	458	434	1003	80.0	9.0	-37	19	(4)	21	(4)	149	
68	2	19	635	434	1003	55.5	8.0	-38	22	(2)	24	(2)	150	
68	2	19	813	435	1002	31.0	9.5	-48	30	(1)	33	(1)	151	
68	2	19	950	435	1002	6.5	10.5	-29	21	(2)	23	(2)	152	
68	2	19	1128	435	1002	-17.9	8.5	-22	16	(2)	17	(2)	153	
68	2	19	1443	435	1001	-66.8	-13.8	-46	22	(6)	24	(6)	155	
68	2	19	1620	434	1000	-91.3	-9.5	-43	26	(7)	28	(7)	156	
68	2	19	1758	437	1000	-115.8	-5.2	-34	24	(4)	26	(4)	157	
68	2	19	1936	437	1000	-140.3	-2.7	-42	23	(1)	25	(1)	158	
68	2	19	2113	437	959	-164.8	-0.5	-39	26	(3)	29	(3)	159	
68	2	19	2251	438	959	170.6	4.5	-20	15	(3)	16	(3)	160	
68	2	20	836	440	957	23.7	9.3	-42	24	(4)	27	(4)	4	
68	2	20	1013	440	956	-0.7	999.9	999	99	(99)	99	(99)	5	MISSING OR INCOMPLETE DATA
68	2	20	1151	440	956	-25.2	7.5	-5	10	(3)	11	(3)	6	
68	2	20	1506	441	955	-74.1	999.9	999	99	(99)	99	(99)	7	NO ELECTROJET
68	2	20	1643	439	955	-98.6	-7.9	-49	16	(1)	17	(1)	8	
68	2	20	1821	442	954	-123.1	-4.8	-60	18	(3)	20	(3)	9	
68	2	20	2136	443	953	-172.1	0.5	-63	25	(1)	28	(1)	10	
68	2	20	2314	443	953	163.3	6.5	-38	20	(3)	22	(3)	11	
68	2	21	52	449	953	138.9	999.9	999	99	(99)	99	(99)	12	MISSING OR INCOMPLETE DATA
68	2	21	229	444	952	114.4	8.3	-37	17	(3)	19	(3)	13	
68	2	21	721	445	951	40.9	9.0	-47	15	(2)	17	(2)	14	
68	2	21	859	446	951	16.4	999.9	999	99	(99)	99	(99)	15	MISSING OR INCOMPLETE DATA
68	2	21	1352	447	949	-56.9	-10.3	-33	8	(1)	9	(1)	16	
68	2	21	1529	444	949	-81.4	-11.3	-47	19	(4)	21	(4)	17	
68	2	21	1707	448	949	-105.9	-6.0	-63	30	(2)	34	(2)	18	
68	2	21	2022	449	948	-154.9	-1.5	-48	18	(5)	20	(5)	19	
68	2	21	2159	449	947	-179.4	2.5	-45	24	(1)	27	(1)	20	
68	2	21	2337	450	947	156.0	7.0	-23	12	(1)	13	(1)	21	
68	2	22	113	441	947	131.5	999.9	999	99	(99)	99	(99)	22	MISSING OR INCOMPLETE DATA
68	2	22	430	451	946	82.6	9.5	-24	19	(2)	22	(2)	23	
68	2	22	607	451	946	58.1	8.0	-33	20	(1)	23	(1)	24	
68	2	22	745	452	945	33.6	9.7	-21	14	(1)	16	(1)	25	
68	2	22	922	452	945	9.1	10.7	-16	16	(2)	18	(2)	26	
68	2	22	1100	453	944	-15.3	9.5	-13	9	(1)	10	(1)	27	
68	2	22	1237	453	944	-39.7	-14.0	-15	99	(99)	99	(99)	28	AMP. TOO BROAD TO CALCULATE
68	2	22	1415	454	943	-64.2	999.9	999	99	(99)	99	(99)	29	NO ELECTROJET
68	2	22	1730	455	943	-113.2	999.9	999	99	(99)	99	(99)	30	MISSING OR INCOMPLETE DATA
68	2	22	1907	455	942	-137.7	-3.0	-22	13	(3)	15	(3)	31	
68	2	22	2045	456	942	-162.2	-1.0	-21	20	(3)	23	(3)	32	
68	2	22	2222	456	941	173.2	4.3	-15	18	(1)	21	(1)	33	
68	2	23	0	456	941	148.8	7.5	-10	18	(1)	21	(1)	34	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	2	23	138	457	941	124.3	8.0	-4	11	(1)	13	(1)	35	
68	2	23	453	458	940	75.3	999.9	999	99	(99)	99	(99)	36	MISSING OR INCOMPLETE DATA
68	2	23	630	459	940	50.8	8.8	-26	23	(1)	27	(1)	37	
68	2	23	808	459	939	26.3	9.5	-14	15	(3)	17	(3)	38	
68	2	23	945	459	939	1.8	10.1	-13	20	(1)	23	(1)	39	
68	2	23	1300	460	938	-47.0	-8.8	-14	15	(3)	17	(3)	40	
68	2	23	1438	461	938	-71.5	-13.5	-24	24	(1)	28	(1)	41	
68	2	23	1615	458	937	-96.0	-8.0	-28	23	(4)	27	(4)	42	
68	2	23	1753	462	937	-120.5	-4.5	-11	14	(2)	16	(2)	43	
68	2	23	1930	463	936	-145.0	999.9	999	99	(99)	99	(99)	44	NO ELECTROJET
68	2	23	2108	463	936	-169.5	999.9	999	99	(99)	99	(99)	45	NO ELECTROJET
68	2	24	24	472	936	141.5	999.9	999	99	(99)	99	(99)	46	MISSING OR INCOMPLETE DATA
68	2	24	201	464	935	117.0	8.5	-8	11	(2)	13	(2)	47	
68	2	24	653	466	934	43.5	9.0	-37	30	(7)	36	(8)	48	
68	2	24	1008	467	933	-5.3	9.5	-30	32	(1)	38	(1)	49	
68	2	24	1146	468	933	-29.8	-8.0	-18	2	(1)	2	(1)	50	
68	2	24	1323	468	932	-54.3	-9.2	-29	10	(1)	12	(1)	51	
68	2	24	1816	470	931	-127.8	-3.0	-25	18	(5)	22	(6)	52	
68	2	24	1953	471	931	-152.2	-1.0	-7	11	(4)	13	(4)	53	
68	2	25	224	473	929	109.7	9.0	-13	11	(1)	13	(1)	54	
68	2	25	540	489	930	60.8	999.9	999	99	(99)	99	(99)	55	MISSING OR INCOMPLETE DATA
68	2	25	1031	476	927	-12.6	9.2	-13	20	(1)	24	(1)	56	
68	2	25	1209	476	927	-37.1	-11.0	-13	99	(99)	99	(99)	57	AMP. TOO BROAD TO CALCULATE
68	2	25	1523	473	926	-86.0	-10.9	-17	13	(2)	16	(2)	58	
68	2	25	1701	478	925	-110.5	-5.5	-12	13	(2)	16	(2)	59	
68	2	25	1839	479	925	-135.0	-3.0	-26	23	(3)	28	(3)	60	
68	2	26	109	481	924	127.0	9.0	6	2	(1)	2	(1)	61	
68	2	26	424	483	923	78.0	10.0	3	9	(1)	11	(1)	62	
68	2	26	602	483	922	53.5	8.0	-6	14	(3)	17	(3)	63	
68	2	26	739	484	922	29.0	999.9	999	99	(99)	99	(99)	64	NO ELECTROJET
68	2	26	917	484	922	4.5	10.8	3	8	(4)	10	(5)	65	
68	2	26	1054	485	921	-19.8	7.0	2	8	(3)	10	(3)	66	
68	2	26	1232	484	921	-44.3	-7.0	1	4	(1)	5	(1)	67	
68	2	26	1409	481	920	-68.8	-13.0	-4	9	(1)	11	(1)	68	
68	2	26	1546	483	920	-93.3	-9.1	-10	15	(2)	19	(2)	69	
68	2	26	1724	488	920	-117.8	-4.8	-7	15	(2)	19	(2)	70	
68	2	26	1902	488	919	-142.3	-2.5	-6	16	(4)	20	(5)	71	
68	2	26	2039	489	919	-166.7	-0.5	-22	19	(5)	24	(6)	72	
68	2	26	2217	490	918	168.7	5.0	-12	7	(1)	9	(1)	73	
68	2	26	2354	490	918	144.2	7.0	9	4	(2)	5	(2)	74	
68	2	27	132	491	918	119.7	8.0	8	12	(1)	15	(1)	75	
68	2	27	447	492	917	70.7	8.5	1	15	(1)	19	(1)	76	
68	2	27	625	493	917	46.3	8.0	-2	16	(5)	20	(6)	77	
68	2	27	802	493	916	21.8	7.0	3	14	(2)	18	(2)	78	
68	2	27	940	494	916	-2.6	10.0	1	13	(1)	17	(1)	79	
68	2	27	1117	495	915	-27.1	3.2	1	16	(1)	21	(1)	80	
68	2	27	1255	495	915	-51.6	999.9	999	99	(99)	99	(99)	81	MISSING OR INCOMPLETE DATA
68	2	27	1432	490	915	-76.1	-13.0	-2	7	(2)	9	(2)	82	
68	2	27	1610	497	914	-100.5	-7.5	2	11	(1)	14	(1)	83	
68	2	27	1747	497	914	-125.0	-4.0	0	15	(1)	19	(1)	84	
68	2	27	1925	498	913	-149.5	-2.0	-25	22	(4)	29	(5)	85	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	2	27	2102	499	913	-174.0	0.5	-12	16	(3)	21	(3)	86	
68	2	27	2240	499	912	161.4	6.5	-8	9	(1)	11	(1)	87	
68	2	28	17	500	912	136.9	7.0	-5	5	(2)	6	(2)	88	
68	2	28	155	501	912	112.5	8.8	-10	8	(2)	10	(2)	89	
68	2	28	508	475	909	63.4	999.9	999	99	(99)	99	(99)	90	MISSING OR INCOMPLETE DATA
68	2	28	825	504	910	14.5	999.9	999	99	(99)	99	(99)	91	NO ELECTROJET
68	2	28	1003	504	910	-9.9	9.0	8	23	(5)	31	(6)	92	
68	2	28	1318	505	909	-58.8	-9.0	-15	2	(1)	2	(1)	93	
68	2	28	1455	502	909	-83.3	999.9	999	99	(99)	99	(99)	94	NO ELECTROJET
68	2	28	1633	507	908	-107.8	-5.0	-9	6	(2)	8	(2)	95	
68	2	28	2125	509	907	178.7	999.9	999	99	(99)	99	(99)	96	NO ELECTROJET
68	2	28	2303	510	907	154.2	8.7	-40	5	(1)	6	(1)	97	
68	2	29	40	511	906	129.7	9.3	-49	10	(1)	13	(1)	98	
68	2	29	218	511	906	105.2	9.0	-38	15	(1)	20	(1)	99	
68	2	29	531	493	905	56.2	999.9	999	99	(99)	99	(99)	100	MISSING OR INCOMPLETE DATA
68	2	29	848	514	904	7.3	10.0	-36	10	(3)	13	(4)	101	
68	2	29	1203	515	904	-41.6	-14.5	-39	99	(99)	99	(99)	102	AMP. TOO BROAD TO CALCULATE
68	2	29	1340	516	903	-66.0	-14.0	-48	13	(1)	18	(1)	103	
68	2	29	1518	512	903	-90.5	-10.0	-50	20	(4)	27	(5)	104	
68	2	29	2011	519	902	-164.0	-0.5	-45	17	(2)	23	(2)	105	
68	3	1	103	521	901	122.5	8.5	-33	8	(2)	11	(2)	107	
68	3	1	418	521	900	73.5	8.5	-21	9	(3)	12	(4)	108	
68	3	1	556	524	859	49.0	8.0	-40	25	(4)	35	(5)	109	
68	3	1	733	524	859	24.6	8.8	-25	14	(2)	19	(2)	110	
68	3	1	911	525	859	0.1	10.0	-24	16	(2)	22	(2)	111	
68	3	1	1048	526	858	-24.3	4.5	-25	8	(4)	11	(5)	112	
68	3	1	1226	527	858	-48.8	999.9	999	99	(99)	99	(99)	113	ELECTROJET TOO BROAD TO CAL.
68	3	1	1403	521	857	-73.3	-12.5	-32	14	(4)	19	(5)	114	
68	3	1	1541	524	857	-97.8	-8.0	-54	28	(8)	39	(11)	115	
68	3	1	1718	529	857	-122.2	-4.5	-43	18	(6)	25	(8)	116	
68	3	1	1856	530	856	-146.7	-1.3	-36	8	(3)	11	(4)	117	
68	3	1	2033	531	856	-171.2	0.5	-44	17	(3)	24	(4)	118	
68	3	1	2211	531	855	164.2	5.8	-26	10	(3)	14	(4)	119	
68	3	1	2348	532	855	139.8	7.8	-20	13	(3)	18	(4)	120	
68	9	8	1116	420	1418	44.9	999.9	999	99	(99)	99	(99)	3	NO ELECTROJET
68	9	8	1253	421	1418	20.5	999.9	999	99	(99)	99	(99)	4	NO ELECTROJET
68	9	8	1430	421	1418	-3.8	9.5	-90	18	(4)	19	(4)	5	
68	9	8	1608	421	1417	-28.2	1.5	-100	10	(4)	10	(4)	6	
68	9	8	1745	421	1417	-52.6	-11.0	-112	23	(4)	24	(4)	7	
68	9	8	2237	421	1416	-125.9	-5.3	-54	5	(2)	5	(2)	8	
68	9	9	328	422	1415	160.8	7.0	-46	8	(3)	8	(3)	9	
68	9	9	506	422	1414	136.4	8.5	-48	10	(2)	10	(2)	10	
68	9	9	643	422	1414	112.0	9.0	-43	16	(1)	17	(1)	11	
68	9	9	957	422	1413	63.2	8.7	-45	15	(3)	16	(3)	12	
68	9	9	1135	423	1413	38.8	9.5	-46	10	(3)	10	(3)	13	
68	9	9	1804	423	1411	-58.8	-13.0	-46	13	(2)	13	(2)	14	
68	9	9	1940	422	1411	-83.2	-11.4	-40	20	(4)	21	(4)	15	
68	9	9	2255	424	1410	-132.0	999.9	999	99	(99)	99	(99)	16	NO ELECTROJET
68	9	10	32	424	1410	-156.4	-1.5	-46	15	(3)	16	(3)	17	
68	9	10	210	424	1410	179.1	2.8	-52	25	(2)	26	(2)	18	
68	9	10	347	424	1409	154.7	7.0	-35	11	(1)	11	(1)	19	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	9	10	701	425	1408	105.8	8.7	-35	12	(1)	12	(1)	20	
68	9	10	839	425	1408	81.4	9.3	-17	15	(3)	16	(3)	21	
68	9	10	1016	425	1408	57.0	8.0	-26	18	(3)	19	(3)	22	
68	9	10	1153	426	1407	32.6	9.0	-13	5	(2)	5	(2)	23	
68	9	10	1330	426	1407	8.2	10.0	-17	8	(2)	8	(2)	24	
68	9	10	1508	426	1406	-16.1	7.8	-20	11	(1)	11	(1)	25	
68	9	10	1645	426	1406	-40.5	-14.7	-12	99	(99)	99	(99)	26	AMP. TOO BROAD TO CALCULATE
68	9	10	1822	426	1405	-64.9	999.9	999	99	(99)	99	(99)	27	MISSING OR INCOMPLETE DATA
68	9	10	1959	427	1405	-89.3	-10.0	-44	25	(4)	27	(4)	28	
68	9	10	2137	427	1405	-113.8	-5.8	-34	21	(2)	22	(2)	29	
68	9	10	2314	427	1404	-138.2	-3.0	-33	16	(1)	17	(1)	30	
68	9	11	51	428	1404	-162.6	-0.8	-44	26	(3)	28	(3)	31	
68	9	11	228	428	1404	172.9	4.2	-34	19	(2)	20	(2)	32	
68	9	11	406	428	1403	148.5	7.9	-33	26	(2)	28	(2)	33	
68	9	11	543	428	1403	124.1	7.8	-32	15	(2)	16	(2)	34	
68	9	11	857	429	1402	75.3	8.0	-14	8	(2)	8	(2)	35	
68	9	11	1212	429	1402	26.5	999.9	999	99	(99)	99	(99)	36	NO ELECTROJET
68	9	11	1349	429	1401	2.1	10.1	-31	22	(2)	23	(2)	37	
68	9	11	1526	430	1401	-22.3	5.5	-25	18	(3)	19	(3)	38	
68	9	11	2018	431	1400	-95.5	-8.0	-30	99	(99)	99	(99)	39	AMP. TOO BROAD TO CALCULATE
68	9	11	2155	428	1359	-119.9	-4.2	-22	15	(4)	16	(4)	40	
68	9	12	424	432	1357	142.4	7.9	-29	9	(1)	9	(1)	41	
68	9	12	601	432	1357	118.0	8.2	-30	14	(1)	15	(1)	42	
68	9	12	738	432	1357	93.6	9.8	-40	22	(1)	24	(1)	43	
68	9	12	916	433	1357	69.1	999.9	999	99	(99)	99	(99)	44	MISSING OR INCOMPLETE DATA
68	9	12	1053	433	1356	44.7	8.0	-41	16	(8)	17	(8)	45	
68	9	12	1545	434	1355	-28.4	999.9	999	99	(99)	99	(99)	46	MISSING OR INCOMPLETE DATA
68	9	12	1859	433	1354	-77.2	-12.5	-55	23	(5)	25	(5)	47	
68	9	12	2036	435	1354	-101.6	-8.0	-36	16	(2)	17	(2)	48	
68	9	12	2214	436	1353	-126.0	-3.2	-38	7	(3)	7	(3)	49	
68	9	12	2351	436	1353	-150.4	-1.8	-61	24	(4)	26	(4)	50	
68	9	13	128	437	1353	-174.8	1.5	-58	19	(2)	21	(2)	51	
68	9	13	305	437	1353	160.6	6.0	-43	6	(2)	6	(2)	52	
68	9	13	443	437	1352	136.2	8.3	-68	20	(1)	22	(1)	53	
68	9	13	620	437	1352	111.8	8.8	-84	30	(3)	33	(3)	54	
68	9	13	934	438	1351	63.0	7.8	-17	9	(1)	10	(1)	55	
68	9	13	1111	439	1351	38.6	8.8	-42	10	(1)	11	(1)	56	
68	9	13	1249	439	1350	14.2	10.0	-41	3	(1)	3	(1)	57	
68	9	13	1426	439	1350	-10.1	8.9	-61	21	(3)	23	(3)	58	
68	9	13	1918	440	1349	-83.3	999.9	999	99	(99)	99	(99)	59	MISSING OR INCOMPLETE DATA
68	9	13	2055	441	1348	-107.7	-6.5	-34	21	(1)	23	(1)	60	
68	9	13	2232	441	1348	-132.2	-4.0	-46	11	(3)	12	(3)	61	
68	9	14	9	442	1348	-156.6	-1.8	-45	8	(3)	9	(3)	62	
68	9	14	147	442	1347	178.9	2.9	-68	13	(2)	14	(2)	63	
68	9	14	324	442	1347	154.5	999.9	999	99	(99)	99	(99)	64	NO ELECTROJET
68	9	14	501	443	1346	130.1	999.9	999	99	(99)	99	(99)	65	NO ELECTROJET
68	9	14	638	443	1346	105.7	9.3	-58	16	(3)	18	(3)	66	
68	9	14	815	444	1346	81.3	9.0	-54	20	(3)	22	(3)	67	
68	9	14	953	444	1345	56.9	7.9	-50	21	(4)	23	(4)	68	
68	9	14	1130	444	1345	32.5	9.5	-69	17	(2)	19	(2)	69	
68	9	14	1307	445	1345	8.1	10.3	-63	20	(7)	22	(7)	70	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	9	14	1444	445	1344	-16.2	8.5	-41	14	(4)	15	(4)	71	
68	9	14	1622	445	1344	-40.6	-5.5	-50	25	(13)	28	(14)	72	
68	9	15	342	448	1341	148.4	8.0	-58	11	(1)	12	(1)	73	
68	9	15	519	448	1341	124.0	8.2	-56	23	(1)	26	(1)	74	
68	9	15	834	450	1340	75.2	9.0	-39	12	(4)	13	(4)	75	
68	9	15	1326	451	1339	2.0	999.9	999	99	(99)	99	(99)	76	MISSING OR INCOMPLETE DATA
68	9	15	1954	453	1337	-95.6	-8.5	-52	25	(1)	29	(1)	77	
68	9	15	2132	454	1337	-120.0	-4.8	-43	16	(3)	18	(3)	78	
68	9	16	46	455	1337	-168.8	0.0	-52	18	(3)	21	(3)	79	
68	9	16	223	455	1336	166.7	999.9	999	99	(99)	99	(99)	80	NO ELECTROJET
68	9	16	400	455	1336	142.3	8.0	-61	12	(3)	14	(3)	81	
68	9	16	538	456	1335	117.9	8.0	-40	16	(1)	18	(1)	82	
68	9	16	715	456	1335	93.5	9.8	-33	16	(1)	18	(1)	83	
68	9	16	853	457	1334	69.1	8.0	-38	17	(6)	20	(7)	84	
68	9	16	1030	457	1334	44.7	8.5	-35	8	(5)	9	(5)	85	
68	9	16	1207	458	1334	20.3	999.9	999	99	(99)	99	(99)	86	NO ELECTROJET
68	9	16	1344	458	1333	-4.0	9.5	-33	15	(1)	17	(1)	87	
68	9	16	1521	459	1333	-28.5	999.9	999	99	(99)	99	(99)	88	NO ELECTROJET
68	9	16	1835	457	1332	-77.3	-12.0	-39	20	(6)	23	(7)	89	
68	9	16	2013	460	1332	-101.7	-7.3	-31	10	(4)	11	(4)	90	
68	9	16	2150	461	1331	-126.1	-4.0	-32	8	(1)	9	(1)	91	
68	9	16	2327	461	1331	-150.5	-2.0	-31	17	(4)	20	(4)	92	
68	9	17	105	462	1331	-174.9	1.0	-34	17	(2)	20	(2)	93	
68	9	17	242	462	1330	160.6	6.5	-26	3	(2)	3	(2)	94	
68	9	17	419	463	1330	136.2	8.2	-35	13	(5)	15	(6)	95	
68	9	17	556	463	1330	111.8	8.5	-33	18	(1)	21	(1)	96	
68	9	17	911	464	1329	63.0	8.0	-33	17	(1)	20	(1)	97	
68	9	17	1048	465	1328	38.6	8.8	-43	16	(3)	19	(3)	98	
68	9	17	1225	465	1328	14.2	10.5	-27	12	(2)	14	(2)	99	
68	9	17	1402	466	1328	-10.1	7.5	-38	33	(2)	40	(2)	100	
68	9	17	1540	466	1327	-34.5	999.9	999	99	(99)	99	(99)	101	NO ELECTROJET
68	9	18	927	451	1323	56.8	999.9	999	99	(99)	99	(99)	102	MISSING OR INCOMPLETE DATA
68	9	18	1912	476	1320	-89.4	999.9	999	99	(99)	99	(99)	103	MISSING OR INCOMPLETE DATA
68	9	19	141	479	1320	172.8	4.5	6	7	(1)	8	(1)	104	
68	9	19	318	479	1319	148.4	7.5	-8	10	(2)	12	(2)	105	
68	9	19	456	479	1319	124.0	8.0	-18	10	(1)	12	(1)	106	
68	9	19	810	481	1318	75.2	8.8	-32	13	(4)	16	(5)	107	
68	9	19	947	481	1317	50.8	8.0	-33	9	(5)	11	(6)	108	
68	9	19	1124	482	1317	26.4	9.2	-24	13	(1)	16	(1)	109	
68	9	19	1302	482	1317	2.0	10.5	-22	15	(3)	19	(3)	110	
68	9	19	1439	483	1316	-22.3	5.0	-22	10	(2)	12	(2)	111	
68	9	19	1616	483	1316	-46.7	-8.8	-27	10	(2)	12	(2)	112	
68	9	19	1753	479	1316	-71.1	-13.5	-43	22	(3)	27	(3)	113	
68	9	19	1931	485	1315	-95.5	-9.0	-30	17	(2)	21	(2)	114	
68	9	19	2108	486	1315	-119.9	-5.0	-16	7	(1)	8	(1)	115	
68	9	19	2245	486	1314	-144.3	-3.0	-20	16	(2)	20	(2)	116	
68	9	20	22	487	1314	-168.7	-0.5	-27	15	(2)	19	(2)	117	
68	9	20	159	487	1314	166.8	5.0	-17	6	(4)	7	(5)	118	
68	9	20	337	488	1314	142.4	999.9	999	99	(99)	99	(99)	119	NO ELECTROJET
68	9	20	514	489	1313	117.9	8.0	-15	6	(1)	7	(1)	120	
68	9	20	651	489	1313	93.5	9.5	-12	7	(1)	9	(1)	121	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	9	20	828	490	1312	69.1	8.5	-17	7	(3)	9	(3)	122	
68	9	20	1006	491	1312	44.7	8.2	-17	6	(3)	7	(3)	123	
68	9	20	1143	491	1311	20.3	6.0	-14	13	(1)	16	(1)	124	
68	9	20	1320	492	1311	-4.0	9.5	-3	10	(1)	13	(1)	125	
68	9	20	1457	492	1311	-28.4	0.0	4	5	(4)	6	(5)	126	
68	9	20	1634	493	1310	-52.8	-10.9	-24	17	(1)	22	(1)	127	
68	9	20	2126	494	1309	-126.0	-4.5	-18	6	(1)	7	(1)	128	
68	9	20	2303	496	1309	-150.4	-1.5	-11	99	(99)	99	(99)	129	AMP. TOO BROAD TO CALCULATE
68	9	21	218	497	1308	160.7	999.9	999	99	(99)	99	(99)	130	ELECTROJET TOO BROAD TO CAL.
68	9	21	355	497	1308	136.3	8.0	-31	22	(5)	29	(6)	131	
68	9	21	709	498	1307	87.5	9.0	-23	25	(2)	33	(2)	132	
68	9	21	846	500	1307	63.1	8.5	-22	17	(1)	22	(1)	133	
68	9	21	1338	502	1305	-10.0	9.0	-9	14	(1)	18	(1)	134	
68	9	21	1515	502	1305	-34.4	999.9	999	99	(99)	99	(99)	135	NO ELECTROJET
68	9	21	2007	502	1304	-107.7	-5.5	-18	10	(2)	13	(2)	136	
68	9	21	2144	505	1303	-132.1	-4.0	-11	5	(1)	6	(1)	137	
68	9	22	59	507	1303	179.0	3.0	-26	13	(2)	17	(2)	138	
68	9	22	413	508	1302	130.2	8.0	-5	8	(3)	10	(4)	140	
68	9	22	550	509	1302	105.8	8.8	-14	18	(2)	24	(2)	141	
68	9	22	727	509	1301	81.4	9.0	-14	23	(5)	31	(6)	142	
68	9	22	905	510	1301	57.0	7.8	-18	21	(4)	28	(5)	143	
68	9	22	1042	511	1301	32.6	10.0	-16	17	(2)	23	(2)	144	
68	9	22	1219	511	1300	8.2	10.5	-20	14	(4)	19	(5)	145	
68	9	22	1356	512	1300	-16.1	9.8	-12	14	(6)	19	(8)	146	
68	9	22	1534	513	1259	-40.5	-5.0	-7	3	(1)	4	(1)	147	
68	9	22	1711	513	1259	-64.9	-14.0	-23	14	(1)	19	(1)	148	
68	9	22	1848	514	1259	-89.3	-10.0	-19	17	(4)	23	(5)	149	
68	9	22	2025	515	1258	-113.7	-5.0	-16	9	(3)	12	(4)	150	
68	9	22	2202	516	1258	-138.1	-3.0	-52	4	(2)	5	(2)	151	
68	9	22	2340	516	1257	-162.5	-1.0	-24	10	(2)	13	(2)	152	
68	9	23	117	517	1257	173.0	5.0	-23	5	(1)	6	(1)	153	
68	9	23	431	518	1257	124.2	8.0	-46	10	(1)	13	(1)	154	
68	9	23	746	520	1256	75.4	9.0	-37	19	(4)	26	(5)	155	
68	9	23	923	521	1255	51.0	8.0	-78	27	(4)	38	(5)	156	
68	9	23	1100	521	1255	26.6	9.8	-39	9	(2)	12	(2)	157	
68	9	23	1237	522	1254	2.2	10.3	-25	9	(1)	12	(1)	158	
68	9	23	1414	523	1254	-22.1	5.0	-55	10	(1)	14	(1)	159	
68	9	23	1552	523	1254	-46.5	-9.0	-64	11	(3)	15	(4)	160	
68	9	23	1721	524	1253	-70.9	-14.0	-48	99	(99)	99	(99)	161	AMP. TOO BROAD TO CALCULATE
68	9	23	1906	525	1253	-95.3	-9.0	-48	17	(4)	24	(5)	162	
68	9	23	2043	526	1252	-119.8	-4.8	-31	6	(3)	8	(4)	163	
68	9	23	2220	526	1252	-144.2	-2.5	-31	8	(1)	11	(1)	164	
68	9	23	2358	527	1252	-168.6	-0.5	-35	6	(2)	8	(2)	165	
68	9	24	135	528	1252	166.9	999.9	999	99	(99)	99	(99)	166	NO ELECTROJET
68	9	24	312	528	1251	142.5	999.9	999	99	(99)	99	(99)	167	NO ELECTROJET
68	9	24	449	529	1251	118.1	7.8	-28	8	(3)	11	(4)	168	
68	9	24	627	530	1250	93.7	9.5	-35	18	(4)	26	(5)	169	
68	9	24	804	531	1250	69.3	8.0	-32	15	(1)	21	(1)	170	
68	9	24	941	532	1249	44.9	8.5	-33	12	(5)	17	(7)	171	
68	9	24	1255	533	1248	-3.8	9.6	-27	18	(3)	26	(4)	172	
68	9	24	1433	534	1248	-28.2	1.5	-25	12	(5)	17	(7)	173	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP.	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	9	24	1616	534	1248	-52.6	-11.0	-37	18	(3)	26	(4)	174	
68	9	24	1747	533	1248	-77.0	-12.7	-42	22	(3)	32	(4)	175	
68	9	24	1924	536	1247	-101.4	-6.9	-44	18	(5)	26	(7)	176	
68	9	24	2101	537	1247	-125.8	-4.5	-23	3	(1)	4	(1)	177	
68	9	24	2239	538	1246	-150.2	-0.9	-25	6	(2)	8	(2)	178	
68	9	25	16	539	1246	-174.6	1.0	-27	11	(2)	16	(2)	179	
68	9	25	507	541	1245	112.1	8.5	-38	25	(5)	37	(7)	180	
68	9	25	823	541	1245	63.3	999.9	999	99	(99)	99	(99)	181	MISSING OR INCOMPLETE DATA
68	9	25	959	543	1244	38.9	9.5	-37	18	(2)	26	(2)	182	
68	9	25	1313	544	1243	-9.8	9.0	-26	20	(1)	30	(1)	183	
68	9	25	1451	545	1243	-34.2	-2.0	-35	20	(7)	30	(10)	184	
68	9	25	1628	546	1242	-58.6	-13.0	-32	16	(2)	24	(3)	185	
68	9	25	1805	545	1242	-83.0	-11.8	-37	24	(2)	36	(3)	186	
68	9	25	1942	548	1242	-107.4	-5.5	-21	12	(2)	18	(3)	187	
68	9	25	2119	548	1241	-131.8	-3.5	-20	9	(1)	13	(1)	188	
68	9	25	2257	549	1241	-156.2	-2.5	-12	5	(2)	7	(3)	189	
68	9	26	34	550	1241	179.3	2.7	-16	9	(3)	13	(4)	190	
68	9	26	211	551	1240	154.9	7.0	-5	4	(1)	6	(1)	191	
68	9	26	348	551	1240	130.5	7.9	-22	10	(3)	15	(4)	192	
68	9	26	525	552	1239	106.1	9.2	-35	99	(99)	99	(99)	193	AMP. TOO BROAD TO CALCULATE
68	9	26	703	553	1239	81.7	9.0	-31	27	(3)	41	(4)	194	
68	9	26	840	554	1239	57.3	8.5	-27	26	(1)	40	(1)	195	
68	9	26	1017	555	1238	32.9	10.0	-18	17	(1)	26	(1)	196	
68	9	26	1154	555	1238	8.5	10.7	-7	11	(5)	16	(7)	197	
68	9	26	1331	556	1237	-15.8	8.9	-12	14	(5)	21	(7)	198	
68	9	26	1960	551	1236	-113.4	-5.2	1	6	(1)	9	(1)	199	
68	9	26	2137	560	1235	-137.8	-1.0	-8	8	(2)	12	(3)	200	
68	9	26	2315	561	1235	-162.2	-0.5	-11	10	(2)	15	(3)	201	
68	9	27	52	562	1235	173.3	4.5	-13	13	(4)	20	(6)	202	
68	9	27	858	566	1233	51.3	8.0	-18	21	(3)	33	(4)	203	
68	9	27	1035	567	1233	26.9	9.0	-12	10	(2)	15	(3)	204	
68	9	27	1705	588	1232	-70.6	999.9	999	99	(99)	99	(99)	205	MISSING OR INCOMPLETE DATA
68	9	27	1841	571	1231	-95.0	-9.0	-20	12	(4)	19	(6)	206	
68	9	27	2018	572	1230	-119.4	-5.1	-5	3	(1)	4	(1)	207	
68	9	27	2155	572	1230	-143.8	999.9	999	99	(99)	99	(99)	208	MISSING OR INCOMPLETE DATA
68	9	27	2333	573	1229	-168.2	0.0	-11	12	(1)	19	(1)	209	
68	9	28	110	574	1229	167.3	5.5	3	4	(2)	6	(3)	210	
68	9	28	247	574	1229	142.9	7.8	-17	13	(1)	21	(1)	211	
68	9	28	424	575	1229	118.5	8.3	-28	24	(3)	38	(4)	212	
68	9	28	739	577	1228	69.7	9.0	-16	14	(2)	22	(3)	213	
68	9	28	916	578	1227	45.3	8.2	-23	19	(1)	31	(1)	214	
68	9	28	1053	579	1227	20.9	8.8	-26	18	(2)	29	(3)	215	
68	9	28	1407	580	1226	-27.8	2.0	-12	9	(1)	14	(1)	216	
68	9	28	1545	581	1226	-52.2	-10.3	-12	7	(1)	11	(1)	217	
68	9	28	1722	582	1225	-76.6	-13.0	-4	8	(1)	13	(1)	218	
68	9	28	1859	583	1225	-101.0	-7.5	-11	11	(1)	18	(1)	219	
68	9	28	2036	584	1225	-125.4	-5.0	-3	3	(2)	4	(3)	220	
68	9	28	2213	585	1224	-149.8	-1.3	7	4	(2)	6	(3)	221	
68	9	28	2351	586	1224	-174.2	1.0	-10	9	(2)	15	(3)	222	
68	9	29	128	586	1224	161.3	6.0	-5	6	(1)	10	(1)	223	
68	9	29	306	605	1224	136.9	999.9	999	99	(99)	99	(99)	224	MISSING OR INCOMPLETE DATA

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	9	29	442	586	1223	112.5	8.5	-30	20	(3)	33	(5)	225	
68	9	29	619	589	1223	88.1	9.5	-20	17	(1)	28	(1)	226	
68	9	29	757	590	1222	63.7	7.5	-19	18	(1)	30	(1)	227	
68	9	29	932	561	1222	39.2	999.9	999	99	(99)	99	(99)	228	MISSING OR INCOMPLETE DATA
68	9	29	1111	591	1221	14.9	10.6	-4	12	(1)	20	(1)	229	
68	9	29	1248	592	1221	-9.4	9.5	-3	14	(4)	23	(6)	230	
68	9	29	1425	593	1220	-33.8	999.9	999	99	(99)	99	(99)	231	NO ELECTROJET
68	9	29	1603	594	1220	-58.2	-12.0	-12	9	(2)	15	(3)	232	
68	9	29	1740	593	1220	-82.6	-12.2	-16	13	(2)	22	(3)	233	
68	9	29	1917	596	1219	-107.0	-5.8	-6	4	(2)	6	(3)	234	
68	9	29	2054	596	1219	-131.4	999.9	999	99	(99)	99	(99)	235	NO ELECTROJET
68	9	29	2231	597	1218	-155.8	-1.0	12	4	(1)	6	(1)	236	
68	9	30	9	598	1218	179.7	2.8	6	4	(1)	6	(1)	237	
68	9	30	146	598	1218	155.3	7.0	5	2	(1)	3	(1)	238	
68	9	30	323	599	1218	130.9	6.5	-7	6	(5)	10	(8)	239	
68	9	30	500	600	1217	106.5	8.5	-17	16	(1)	27	(1)	240	
68	9	30	637	601	1217	82.1	9.0	-4	13	(1)	22	(1)	241	
68	9	30	814	602	1216	57.7	8.2	-12	17	(3)	29	(5)	242	
68	9	30	952	603	1216	33.3	9.0	-4	9	(1)	15	(1)	243	
68	9	30	1129	604	1216	8.9	10.0	-3	7	(3)	12	(5)	244	
68	9	30	1306	604	1215	-15.4	9.5	-4	10	(5)	17	(8)	245	
68	9	30	1443	605	1215	-39.8	-6.0	2	99	(99)	99	(99)	246	AMP. TOO BROAD TO CALCULATE
68	9	30	1620	606	1214	-64.2	-14.0	-15	11	(4)	19	(7)	247	
68	9	30	1757	604	1214	-88.6	-10.0	-13	14	(1)	24	(1)	248	
68	9	30	1935	608	1214	-113.0	-5.2	-2	5	(2)	8	(3)	249	
68	9	30	2112	609	1213	-137.4	-3.5	-10	4	(1)	7	(1)	250	
68	9	30	2249	610	1213	-161.8	-1.0	-14	6	(1)	10	(1)	251	
68	10	1	518	613	1211	100.5	9.5	-36	11	(2)	19	(3)	252	
68	10	1	655	614	1210	76.1	9.0	-20	6	(1)	10	(1)	253	
68	10	1	832	615	1210	51.7	9.0	-36	15	(1)	26	(1)	254	
68	10	1	1147	616	1210	2.9	10.0	-9	6	(2)	10	(3)	255	
68	10	1	1324	617	1209	-21.4	999.9	999	99	(99)	99	(99)	256	MISSING OR INCOMPLETE DATA
68	10	1	1501	618	1209	-45.8	-8.5	-21	11	(1)	19	(1)	257	
68	10	1	1638	611	1209	-70.2	999.9	999	99	(99)	99	(99)	258	ELECTROJET TOO BROAD TO CAL.
68	10	1	2130	621	1207	-143.4	-2.0	-32	8	(1)	14	(1)	259	
68	10	1	2307	622	1207	-167.8	0.0	-31	10	(1)	18	(1)	260	
68	10	2	44	623	1207	167.7	5.5	-68	13	(7)	23	(12)	261	
68	10	2	221	624	1207	143.3	7.5	-43	9	(1)	16	(1)	262	
68	10	2	359	625	1206	118.9	8.0	-43	15	(4)	27	(7)	263	
68	10	2	536	626	1206	94.5	9.5	-88	28	(2)	51	(3)	264	
68	10	2	713	626	1205	70.1	8.0	-32	5	(2)	9	(3)	265	
68	10	2	850	627	1205	45.7	8.5	-34	12	(4)	22	(7)	266	
68	10	2	1027	628	1205	21.3	8.0	-71	19	(3)	35	(5)	267	
68	10	2	1205	629	1204	-3.0	9.5	-68	14	(4)	25	(7)	268	
68	10	2	1342	630	1204	-27.4	999.9	999	99	(99)	99	(99)	269	MISSING OR INCOMPLETE DATA
68	10	2	1519	630	1203	-51.8	-12.0	-36	5	(1)	9	(1)	270	
68	10	2	1656	626	1203	-76.2	-13.0	-44	11	(1)	20	(1)	271	
68	10	2	1833	632	1203	-100.6	-7.5	-61	13	(2)	24	(3)	272	
68	10	2	2010	633	1202	-124.9	-4.8	-53	10	(3)	18	(5)	273	
68	10	2	2148	634	1202	-149.3	-1.5	-62	15	(1)	28	(1)	274	
68	10	2	2325	635	1201	-173.7	1.0	-70	12	(2)	22	(3)	275	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	10	3	102	636	1201	161.8	7.5	-71	8	(3)	15	(5)	276	
68	10	3	239	636	1201	137.4	7.5	-77	11	(3)	20	(5)	277	
68	10	3	554	638	1200	88.6	9.5	-70	24	(2)	45	(3)	278	
68	10	3	731	639	1200	64.2	8.5	-81	23	(1)	43	(1)	279	
68	10	3	908	640	1159	39.8	9.5	-76	17	(7)	32	(13)	280	
68	10	3	1222	642	1158	-8.9	999.9	999	99	(99)	99	(99)	281	MISSING OR INCOMPLETE DATA
68	10	3	1359	642	1158	-33.3	999.9	999	99	(99)	99	(99)	282	MISSING OR INCOMPLETE DATA
68	10	3	1537	643	1158	-57.7	-11.0	-55	15	(1)	28	(1)	283	
68	10	3	1714	643	1157	-82.1	-11.0	-44	12	(1)	22	(1)	284	
68	10	3	1851	645	1157	-106.5	-6.6	-33	5	(1)	9	(1)	285	
68	10	3	2028	646	1156	-130.9	999.9	999	99	(99)	99	(99)	286	MISSING OR INCOMPLETE DATA
68	10	3	2205	647	1156	-155.3	-1.0	-36	5	(1)	9	(1)	287	
68	10	3	2343	648	1156	-179.7	3.0	-33	5	(2)	9	(3)	288	
68	10	4	120	648	1156	155.8	7.0	-39	9	(1)	17	(1)	289	
68	10	4	257	649	1155	131.4	8.0	-52	18	(5)	34	(9)	290	
68	10	4	434	650	1155	107.0	9.5	-53	21	(4)	40	(7)	291	
68	10	4	746	622	1154	58.2	999.9	999	99	(99)	99	(99)	292	MISSING OR INCOMPLETE DATA
68	10	4	926	653	1154	33.8	10.0	-40	12	(1)	23	(1)	293	
68	10	4	1103	653	1153	9.4	10.5	-34	9	(2)	17	(3)	294	
68	10	4	1240	654	1153	-14.9	9.0	-36	11	(2)	21	(3)	295	
68	10	4	1417	655	1152	-39.3	999.9	999	99	(99)	99	(99)	296	MISSING OR INCOMPLETE DATA
68	10	4	1554	656	1152	-63.7	-13.5	-52	14	(1)	27	(1)	297	
68	10	4	1732	657	1151	-88.1	999.9	999	99	(99)	99	(99)	298	MISSING OR INCOMPLETE DATA
68	10	4	1909	658	1151	-112.4	-4.5	-30	9	(5)	17	(9)	299	
68	10	4	2046	658	1151	-136.8	-3.0	-28	5	(2)	9	(3)	300	
68	10	4	2223	659	1150	-161.2	-0.5	-22	3	(1)	5	(1)	301	
68	10	5	0	660	12	174.3	999.9	999	99	(99)	99	(99)	302	MISSING OR INCOMPLETE DATA
68	10	5	137	661	1150	149.9	8.5	-20	5	(2)	9	(3)	303	
68	10	5	315	662	1149	125.5	8.0	-31	9	(2)	17	(3)	304	
68	10	5	629	663	1149	76.7	9.0	-39	18	(2)	36	(4)	305	
68	10	5	806	664	1148	52.3	8.5	-51	28	(4)	56	(8)	306	
68	10	5	1121	666	1147	3.5	11.0	-41	14	(3)	28	(6)	307	
68	10	5	1258	667	1147	-20.8	6.5	-36	13	(4)	26	(8)	308	
68	10	5	1435	667	1147	-45.2	-8.0	-33	15	(5)	30	(10)	309	
68	10	5	1612	667	1146	-69.6	-13.0	-48	20	(1)	40	(2)	310	
68	10	5	1749	669	1146	-94.0	-9.5	-35	12	(4)	24	(8)	311	
68	10	5	1926	670	1145	-118.4	-3.0	-21	3	(2)	6	(4)	312	
68	10	6	16	641	1145	168.3	999.9	999	99	(99)	99	(99)	313	MISSING OR INCOMPLETE DATA
68	10	6	155	673	1144	143.9	8.0	-29	7	(1)	14	(2)	314	
68	10	6	509	673	1143	95.1	10.0	-36	15	(1)	30	(2)	315	
68	10	6	647	676	1143	70.7	9.5	8	8	(4)	16	(8)	316	
68	10	6	1138	678	1142	-2.3	10.0	-2	16	(2)	33	(4)	317	
68	10	6	1315	679	1141	-26.7	999.9	999	99	(99)	99	(99)	318	MISSING OR INCOMPLETE DATA
68	10	6	1453	680	1141	-51.1	-11.0	-29	17	(5)	35	(10)	319	
68	10	6	1630	678	1140	-75.5	999.9	999	99	(99)	99	(99)	320	MISSING OR INCOMPLETE DATA
68	10	6	1807	679	1140	-99.9	-8.0	-17	11	(1)	22	(2)	321	
68	10	6	2258	684	1138	-173.1	1.0	-17	11	(1)	23	(2)	322	
68	10	7	213	686	1138	138.0	8.5	-25	14	(1)	29	(2)	323	
68	10	7	350	685	1138	113.6	9.0	-27	13	(1)	27	(2)	324	
68	10	7	1019	690	1136	16.0	999.9	999	99	(99)	99	(99)	325	MISSING OR INCOMPLETE DATA
68	10	7	1156	691	1136	-8.3	9.5	-22	11	(1)	23	(2)	326	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	10	7	1333	692	1135	-32.7	999.9	999	99	(99)	99	(99)	327	MISSING OR INCOMPLETE DATA
68	10	7	1510	692	1135	-57.1	-13.0	-31	11	(2)	23	(4)	328	
68	10	7	1647	693	1135	-81.4	-11.5	-9	12	(1)	25	(2)	329	
68	10	7	1825	694	1134	-105.8	-5.5	-44	18	(2)	38	(4)	330	
68	10	7	2002	695	1134	-130.2	-4.0	-24	9	(2)	19	(4)	331	
68	10	7	2139	696	1133	-154.6	-0.5	-29	9	(3)	19	(6)	332	
68	10	8	53	697	1133	156.5	7.5	-28	9	(1)	19	(2)	333	
68	10	8	230	698	1133	132.1	8.5	-29	14	(2)	30	(4)	334	
68	10	8	408	699	1132	107.7	9.0	-34	12	(4)	26	(8)	335	
68	10	8	545	700	1132	83.3	9.5	-25	11	(1)	23	(2)	336	
68	10	8	722	701	1131	58.9	8.0	-28	15	(1)	32	(2)	337	
68	10	8	859	701	1131	34.5	9.5	-22	10	(1)	21	(2)	338	
68	10	8	1036	702	1131	10.1	11.0	-22	10	(1)	21	(2)	339	
68	10	8	1213	703	1130	-14.2	9.5	-28	16	(2)	35	(4)	340	
68	10	8	1351	704	1130	-38.6	-4.5	-32	16	(1)	35	(2)	341	
68	10	8	1528	704	1129	-63.0	-12.5	-44	11	(2)	24	(4)	342	
68	10	8	2019	706	1128	-136.2	-2.5	-23	6	(1)	13	(2)	343	
68	10	8	2157	708	1128	-160.5	-0.5	-28	10	(2)	22	(4)	344	
68	10	9	109	709	1127	150.6	999.9	999	99	(99)	99	(99)	345	MISSING OR INCOMPLETE DATA
68	10	9	248	710	1127	126.2	8.5	-53	17	(2)	37	(4)	346	
68	10	9	425	711	1126	101.8	9.0	-31	18	(2)	40	(4)	347	
68	10	9	602	711	1126	77.4	999.9	999	99	(99)	99	(99)	348	MISSING OR INCOMPLETE DATA
68	10	9	740	712	1126	53.0	9.0	-18	12	(1)	26	(2)	349	
68	10	9	1054	714	1125	4.2	11.0	-14	6	(3)	13	(6)	350	
68	10	9	1231	715	1124	-20.1	999.9	999	99	(99)	99	(99)	351	MISSING OR INCOMPLETE DATA
68	10	9	1408	715	1124	-44.5	999.9	999	99	(99)	99	(99)	352	MISSING OR INCOMPLETE DATA
68	10	9	1545	716	1123	-68.9	-12.5	-14	5	(1)	11	(2)	353	
68	10	9	1723	717	1123	-93.3	999.9	999	99	(99)	99	(99)	354	MISSING OR INCOMPLETE DATA
68	10	9	1860	718	1123	-117.7	-4.0	-7	1	(1)	2	(2)	355	
68	10	9	2037	719	1122	-142.1	-2.0	-16	6	(1)	13	(2)	356	
68	10	9	2351	720	1122	169.1	4.5	-28	8	(2)	18	(4)	357	
68	10	10	128	721	1121	144.7	7.5	-33	15	(1)	34	(2)	358	
68	10	10	934	725	1119	22.7	9.0	-22	7	(2)	16	(4)	360	
68	10	10	1111	726	1119	-1.6	10.5	-16	9	(2)	20	(4)	361	
68	10	10	1249	726	1119	-26.0	999.9	999	99	(99)	99	(99)	362	MISSING OR INCOMPLETE DATA
68	10	10	1740	727	1117	-99.2	999.9	999	99	(99)	99	(99)	363	MISSING OR INCOMPLETE DATA
68	10	10	1917	730	1117	-123.6	-4.0	-5	3	(1)	6	(2)	364	
68	10	10	2054	730	1117	-148.0	-0.5	-5	3	(1)	6	(2)	365	
68	10	10	2232	731	1116	-172.4	1.0	-6	4	(1)	9	(2)	366	
69	7	8	310	559	1451	176.2	4.4	3	3	(1)	4	(1)	13	
69	7	8	450	558	1450	151.2	8.3	-4	6	(3)	9	(4)	14	
69	7	8	629	557	1450	126.1	7.3	-5	8	(2)	12	(3)	15	
69	7	8	949	555	1449	76.0	999.9	999	99	(99)	99	(99)	16	MISSING OR INCOMPLETE DATA
69	7	8	1128	553	1448	51.0	8.3	-1	6	(1)	9	(1)	17	
69	7	8	1308	552	1448	25.9	999.9	999	99	(99)	99	(99)	18	MISSING OR INCOMPLETE DATA
69	7	8	1448	551	1447	0.9	10.3	-1	10	(2)	15	(3)	19	
69	7	8	1627	550	1447	-24.9	5.0	10	5	(1)	7	(1)	20	
69	7	8	1807	549	1446	-49.1	999.9	999	99	(99)	99	(99)	21	ELECTROJET TOO BROAD TO CAL.
69	7	8	1947	549	1446	-74.2	-13.2	7	6	(2)	9	(3)	22	
69	7	8	2126	547	1445	-99.3	-7.2	-6	10	(3)	15	(4)	23	
69	7	9	46	545	1444	-149.4	-2.2	-17	16	(1)	24	(1)	24	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	7	9	225	544	1443	-174.4	0.8	-24	11	(1)	16	(1)	25	
69	7	9	405	543	1443	160.4	8.3	-15	3	(2)	4	(2)	26	
69	7	9	545	542	1442	135.4	7.8	-24	9	(1)	13	(1)	27	
69	7	9	724	541	1442	110.3	8.3	-19	14	(2)	20	(2)	28	
69	7	9	904	540	1441	85.3	8.8	-2	8	(3)	11	(4)	29	
69	7	9	1044	539	1441	60.2	999.9	999	99	(99)	99	(99)	30	MISSING OR INCOMPLETE DATA
69	7	9	1224	538	1440	35.2	9.3	-24	12	(1)	17	(1)	31	
69	7	9	1403	537	1440	10.1	10.8	-16	10	(1)	14	(1)	32	
69	7	9	1543	536	1439	-14.8	8.8	-12	13	(2)	19	(2)	33	
69	7	9	1723	535	1438	-39.9	999.9	999	99	(99)	99	(99)	34	NO ELECTROJET
69	7	9	1902	534	1438	-64.9	-14.2	-18	9	(1)	13	(1)	35	
69	7	9	2042	533	1437	-90.0	-9.7	-14	12	(1)	17	(1)	36	
69	7	9	2222	532	1437	-115.1	-4.4	-4	3	(1)	4	(1)	37	
69	7	10	1	531	1436	-140.1	-2.7	-4	5	(1)	7	(1)	38	
69	7	10	321	529	1435	169.7	3.6	-25	10	(2)	14	(2)	39	
69	7	10	500	529	1435	144.6	7.0	-25	11	(3)	15	(4)	40	
69	7	10	640	527	1434	119.6	7.8	-14	14	(2)	20	(2)	41	
69	7	10	820	526	1434	94.5	9.3	-16	14	(1)	20	(1)	42	
69	7	10	959	525	1433	69.5	8.3	-9	7	(2)	9	(2)	43	
69	7	10	1139	524	1432	44.4	8.3	-15	10	(1)	14	(1)	44	
69	7	10	1319	525	1432	19.3	999.9	999	99	(99)	99	(99)	45	NO ELECTROJET
69	7	10	1458	522	1431	-5.6	9.2	-18	9	(3)	12	(4)	46	
69	7	10	1638	521	1431	-30.6	999.9	999	99	(99)	99	(99)	47	ELECTROJET TOO BROAD TO CAL.
69	7	10	1818	520	1430	-55.7	-11.2	-4	8	(1)	11	(1)	48	
69	7	10	1957	519	1430	-80.7	-12.2	-2	9	(1)	12	(1)	49	
69	7	10	2137	518	1429	-105.8	999.9	999	99	(99)	99	(99)	50	MISSING OR INCOMPLETE DATA
69	7	10	2317	517	1429	-130.8	-3.7	-17	6	(2)	8	(2)	51	
69	7	11	57	516	1428	-155.9	999.9	999	99	(99)	99	(99)	52	ELECTROJET TOO BROAD TO CAL.
69	7	11	236	515	1427	179.0	2.8	-19	12	(2)	16	(2)	53	
69	7	11	416	515	1427	153.9	-5.2	-11	7	(2)	9	(2)	54	
69	7	11	556	513	1426	128.9	8.3	-24	18	(1)	24	(1)	55	
69	7	11	735	512	1426	103.8	9.5	-18	16	(3)	22	(4)	56	
69	7	11	1414	508	1424	3.6	10.2	7	5	(1)	6	(1)	57	
69	7	11	1733	507	1423	-46.4	999.9	999	99	(99)	99	(99)	58	NO ELECTROJET
69	7	11	1913	506	1422	-71.5	-12.2	-3	5	(3)	6	(4)	59	
69	7	11	2053	505	1422	-96.5	-9.2	-7	9	(3)	12	(4)	60	
69	7	12	12	503	1420	-146.6	-2.2	-14	8	(2)	10	(2)	3	
69	7	12	152	502	1420	-171.7	0.0	-26	13	(2)	17	(2)	4	
69	7	12	331	501	1419	163.2	999.9	999	99	(99)	99	(99)	5	MISSING OR INCOMPLETE DATA
69	7	12	511	500	1419	138.1	8.3	-29	10	(2)	13	(2)	6	
69	7	12	830	499	1418	88.0	9.2	-34	19	(2)	25	(2)	7	
69	7	12	1150	497	1417	37.9	8.8	-9	9	(1)	11	(1)	8	
69	7	12	1329	496	1416	12.9	10.8	0	8	(1)	10	(1)	9	
69	7	12	1509	495	1416	-12.1	8.8	-11	22	(2)	28	(2)	10	
69	7	12	1649	494	1415	-37.1	-4.2	15	5	(2)	6	(2)	11	
69	7	12	1828	496	1415	-62.2	-14.2	20	8	(3)	10	(3)	12	
69	7	12	2328	491	1413	-137.3	999.9	999	99	(99)	99	(99)	13	MISSING OR INCOMPLETE DATA
69	7	13	107	490	1412	-162.4	-1.2	-2	7	(1)	9	(1)	14	
69	7	13	247	489	1412	172.5	4.8	-15	14	(1)	18	(1)	15	
69	7	13	427	488	1411	147.4	7.8	-22	4	(2)	5	(2)	16	
69	7	13	606	487	1411	122.4	8.8	18	3	(2)	3	(2)	17	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	7	13	746	487	1410	97.3	9.8	22	11	(5)	14	(6)	18	
69	7	13	1105	485	1409	47.2	999.9	999	99	(99)	99	(99)	19	NO ELECTROJET
69	7	13	1245	484	1409	22.1	5.8	-4	99	(99)	99	(99)	20	AMP. TOO BROAD TO CALCULATE
69	7	13	1424	486	1408	-2.9	9.8	-4	11	(2)	14	(2)	21	
69	7	13	1604	482	1407	-27.9	999.9	999	99	(99)	99	(99)	22	NO ELECTROJET
69	7	13	1744	482	1407	-52.9	999.9	999	99	(99)	99	(99)	23	MISSING OR INCOMPLETE DATA
69	7	13	1924	481	1406	-78.0	-12.0	-35	22	(5)	27	(6)	24	
69	7	13	2103	483	1406	-103.1	999.9	999	99	(99)	99	(99)	25	ELECTROJET TOO BROAD TO CAL.
69	7	13	2243	479	1405	-128.1	999.9	999	99	(99)	99	(99)	26	ELECTROJET TOO BROAD TO CAL.
69	7	14	23	478	1405	-153.1	-1.2	-21	5	(1)	6	(1)	27	
69	7	14	202	478	1404	-178.2	2.5	-26	13	(2)	16	(2)	28	
69	7	14	342	477	1404	156.7	999.9	999	99	(99)	99	(99)	29	NO ELECTROJET
69	7	14	522	476	1403	131.6	999.9	999	99	(99)	99	(99)	30	NO ELECTROJET
69	7	14	701	475	1402	106.6	8.8	-36	14	(2)	17	(2)	31	
69	7	14	841	474	1402	81.5	9.2	-28	15	(6)	18	(7)	32	
69	7	14	1021	474	1401	56.5	8.4	-13	8	(2)	9	(2)	33	
69	7	14	1200	473	1401	31.4	10.3	-21	8	(1)	9	(1)	34	
69	7	14	1340	472	1400	6.4	10.8	-2	8	(2)	9	(2)	35	
69	7	14	1659	471	1359	-43.6	999.9	999	99	(99)	99	(99)	36	NO ELECTROJET
69	7	14	1839	470	1359	-68.7	-12.7	-25	16	(6)	19	(7)	37	
69	7	14	2019	469	1358	-93.7	-9.0	-25	10	(3)	12	(3)	38	
69	7	14	2158	468	1358	-118.8	-4.2	-12	12	(4)	14	(4)	39	
69	7	14	2338	468	1357	-143.8	-2.9	-16	18	(1)	21	(1)	40	
69	7	15	118	467	1357	-168.9	0.0	-22	19	(2)	23	(2)	41	
69	7	15	437	466	1355	140.9	8.0	-11	10	(1)	12	(1)	42	
69	7	15	756	464	1354	90.8	9.8	-8	12	(1)	14	(1)	43	
69	7	15	936	463	1354	65.8	8.5	-13	6	(1)	7	(1)	44	
69	7	15	1116	462	1353	40.7	999.9	999	99	(99)	99	(99)	45	NO ELECTROJET
69	7	15	1255	462	1353	15.7	999.9	999	99	(99)	99	(99)	46	NO ELECTROJET
69	7	15	1435	461	1352	-9.3	8.8	2	5	(2)	5	(2)	47	
69	7	15	1615	460	1352	-34.3	-2.2	-13	17	(1)	20	(1)	48	
69	7	15	1754	461	1351	-59.4	-13.0	-33	28	(5)	33	(5)	49	
69	7	15	1934	459	1351	-84.4	-10.2	-14	20	(4)	23	(4)	50	
69	7	15	2253	458	1350	-134.5	-3.2	-11	14	(5)	16	(5)	51	
69	7	16	33	457	1349	-159.6	-1.2	-9	12	(2)	14	(2)	3	
69	7	16	1031	453	1346	50.0	7.8	-26	10	(1)	11	(1)	7	
69	7	16	1350	452	1345	0.0	11.3	2	8	(1)	9	(1)	8	
69	7	16	1530	451	1344	-25.0	4.3	0	5	(2)	5	(2)	9	
69	7	16	1709	451	1344	-50.1	-9.2	-18	15	(4)	17	(4)	10	
69	7	16	1849	450	1341	-75.1	-12.2	-19	18	(4)	20	(4)	11	
69	7	16	2208	449	1342	-125.7	-4.7	-7	10	(5)	11	(5)	13	
69	7	16	2348	448	1341	-150.3	-1.2	0	8	(1)	9	(1)	14	
69	7	17	128	447	1341	-175.3	1.8	-17	13	(1)	14	(1)	15	
69	7	17	307	447	1340	159.5	6.3	-17	15	(1)	17	(1)	16	
69	7	17	447	446	1340	134.5	8.0	-29	12	(1)	13	(1)	17	
69	7	17	627	446	1339	109.4	8.8	-30	22	(1)	25	(1)	18	
69	7	17	806	445	1339	84.4	9.3	-5	8	(2)	9	(2)	19	
69	7	17	1126	444	1338	34.3	9.6	-28	23	(1)	26	(1)	21	
69	7	17	1305	443	1337	9.2	10.8	-14	14	(1)	15	(1)	22	
69	7	17	1445	443	1337	-15.7	8.8	-12	16	(2)	18	(2)	23	
69	7	17	1625	442	1336	-40.8	-5.2	-15	13	(6)	14	(6)	24	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	7	17	1804	442	1335	-65.8	-13.2	-21	99	(99)	99	(99)	25	AMP. TOO BROAD TO CALCULATE
69	7	17	2303	440	1334	-141.0	-2.2	-11	15	(2)	16	(2)	26	
69	7	18	223	439	1333	168.8	5.8	-12	10	(1)	11	(1)	27	
69	7	18	402	438	1332	143.8	7.8	-17	16	(1)	17	(1)	28	
69	7	18	542	438	1332	118.7	7.8	-23	24	(1)	26	(1)	29	
69	7	18	722	437	1331	93.7	9.8	-24	26	(3)	29	(3)	30	
69	7	18	901	437	1331	68.6	8.3	-12	11	(1)	12	(1)	31	
69	7	18	1221	435	1330	18.5	10.3	-19	19	(2)	21	(2)	33	
69	7	18	1404	435	1329	-6.4	9.8	-20	24	(1)	26	(1)	34	
69	7	18	1720	434	1328	-56.5	-10.7	-13	14	(3)	15	(3)	36	
69	7	18	1859	434	1327	-81.6	-11.2	-9	16	(2)	17	(2)	37	
69	7	18	2219	433	1326	-131.7	-3.2	-10	14	(4)	15	(4)	39	
69	7	18	2358	432	1326	-156.7	-0.7	-3	10	(2)	11	(2)	40	
69	7	19	138	432	1325	178.1	2.8	-13	20	(2)	22	(2)	41	
69	7	19	318	431	1325	153.1	7.8	-11	16	(1)	17	(1)	42	
69	7	19	457	431	1324	128.0	8.8	-11	14	(1)	15	(1)	43	
69	7	19	637	430	1324	103.0	9.3	-9	7	(4)	7	(4)	44	
69	7	19	1136	429	1322	27.8	9.8	-3	10	(4)	10	(4)	47	
69	7	19	1316	428	1321	2.8	10.3	2	8	(1)	8	(1)	48	
69	7	19	1455	428	1321	-22.2	5.8	4	9	(2)	9	(2)	49	
69	7	19	1635	428	1320	-47.2	-8.2	-3	12	(5)	13	(5)	50	
69	7	19	1815	427	1320	-72.3	-12.7	-17	27	(5)	29	(5)	51	
69	7	19	1954	427	1319	-97.3	-7.7	-15	22	(5)	23	(5)	52	
69	7	19	2134	426	1319	-122.3	-4.2	-16	12	(3)	12	(3)	53	
69	7	19	2314	426	1318	-147.4	-1.2	2	12	(1)	12	(1)	54	
69	7	20	53	423	1318	-172.4	0.6	-3	14	(1)	15	(1)	55	
69	7	20	233	426	1317	162.4	6.3	-7	13	(2)	14	(2)	56	
69	7	20	413	425	1317	137.4	8.3	-7	7	(3)	7	(3)	57	
69	7	20	552	424	1316	112.3	8.8	-14	20	(1)	21	(1)	58	
69	7	20	732	424	1315	87.3	9.3	5	11	(1)	11	(1)	59	
69	7	20	917	423	1315	62.2	8.3	5	4	(1)	4	(1)	60	
69	7	20	1231	422	1314	12.1	10.8	18	20	(3)	21	(3)	61	
69	7	20	1411	422	1313	-12.8	9.3	12	23	(7)	24	(7)	62	
69	7	20	1910	421	1312	-88.0	-10.3	3	24	(4)	25	(4)	63	
69	7	20	2049	421	1311	-113.0	-4.7	23	99	(99)	99	(99)	64	AMP. TOO BROAD TO CALCULATE
69	7	21	328	420	1309	146.7	7.3	-2	19	(1)	20	(1)	65	
69	7	21	508	419	1309	121.6	7.7	7	14	(2)	14	(2)	66	
69	7	21	648	419	1308	96.6	9.6	6	13	(4)	13	(4)	67	
69	7	21	1147	417	1306	21.4	9.8	10	6	(5)	6	(5)	70	
69	7	21	1326	417	1306	-3.5	9.3	24	4	(2)	4	(2)	71	
69	7	21	1645	416	1304	-53.6	-10.0	-4	11	(6)	11	(6)	73	
69	7	21	1825	416	1304	-78.7	-11.8	-13	23	(9)	24	(9)	74	
69	7	21	2005	416	1304	-103.7	-6.2	-1	15	(3)	15	(3)	75	
69	7	21	2145	415	1303	-128.8	-4.3	3	6	(1)	6	(1)	76	
69	7	21	2324	415	1303	-153.8	-1.1	-25	22	(3)	23	(3)	77	
69	7	22	104	415	1302	-178.9	2.2	-12	24	(1)	25	(1)	78	
69	7	22	423	414	1301	131.0	7.9	-14	14	(1)	14	(1)	79	
69	7	22	603	414	1300	105.9	8.8	-34	23	(4)	23	(4)	80	
69	7	22	743	414	1300	80.9	9.1	-21	15	(3)	15	(3)	81	
69	7	22	922	413	1259	55.8	6.8	3	2	(2)	2	(2)	82	
69	7	22	1102	413	1259	30.8	10.2	0	10	(6)	10	(6)	83	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	7	22	1421	413	1258	-19.2	7.4	5	12	(4)	12	(4)	84	
69	7	22	1601	413	1257	-44.3	-6.4	11	5	(3)	5	(3)	85	
69	7	22	1741	412	1257	-69.3	-13.4	-16	29	(5)	30	(5)	86	
69	7	22	1920	412	1256	-94.4	-8.5	-14	21	(1)	21	(1)	87	
69	7	22	2240	412	1255	-144.5	-2.0	-8	16	(2)	16	(2)	88	
69	7	23	19	411	1255	-169.5	0.3	-12	12	(1)	12	(1)	89	
69	7	23	1017	410	1251	40.1	9.0	-13	15	(3)	15	(3)	90	
69	7	23	1336	409	1250	-9.9	8.8	-5	27	(1)	27	(1)	91	
69	7	23	1836	409	1249	-85.1	-10.4	-27	32	(5)	32	(5)	92	
69	7	23	2015	409	1248	-110.1	-5.0	1	15	(5)	15	(5)	93	
69	7	23	2334	409	1247	-160.2	-1.2	-15	11	(1)	11	(1)	94	
69	7	24	114	408	1246	174.7	3.6	-1	10	(2)	10	(2)	95	
69	7	24	254	409	1246	149.6	8.3	5	7	(2)	7	(2)	96	
69	7	24	433	408	1245	124.6	8.3	5	8	(1)	8	(1)	97	
69	7	24	613	408	1245	99.5	9.8	-12	5	(2)	5	(2)	98	
69	7	24	932	407	1244	49.4	7.8	-10	14	(4)	14	(4)	99	
69	7	24	1252	407	1243	-0.6	9.8	-13	27	(4)	27	(4)	100	
69	7	24	1431	407	1242	-25.6	3.8	4	11	(4)	11	(4)	101	
69	7	24	1611	407	1242	-50.7	-11.2	2	12	(4)	12	(4)	102	
69	7	24	1751	407	1241	-75.7	-13.0	-12	28	(3)	28	(3)	103	
69	7	24	1930	407	1241	-100.8	-7.2	-10	20	(3)	20	(3)	104	
69	7	24	2110	407	1240	-125.8	-3.7	-11	28	(5)	28	(5)	105	
69	7	24	2250	407	1240	-150.9	-1.2	2	19	(2)	19	(2)	106	
69	7	25	208	409	1238	158.6	6.8	-1	10	(1)	10	(1)	107	
69	7	25	349	406	1238	133.9	7.3	-14	9	(1)	9	(1)	108	
69	7	25	708	406	1237	83.8	9.3	-8	17	(1)	17	(1)	109	
69	7	25	848	406	1236	58.7	8.8	2	4	(1)	4	(1)	110	
69	7	25	1027	406	1236	33.7	9.3	-8	8	(2)	8	(2)	111	
69	7	25	1207	406	1235	8.6	10.8	-2	9	(1)	9	(1)	112	
69	7	25	1347	406	1235	-16.3	9.3	2	11	(5)	11	(5)	113	
69	7	25	1526	406	1234	-41.3	-9.2	26	3	(3)	3	(3)	114	
69	7	25	2024	408	1233	-116.8	-4.7	18	10	(3)	10	(3)	116	
69	7	25	2205	406	1232	-141.5	-2.2	7	11	(3)	11	(3)	117	
69	7	26	803	406	1229	68.1	8.3	20	3	(2)	3	(2)	118	
69	7	26	1122	405	1228	18.0	10.3	23	2	(1)	2	(1)	120	
69	7	26	1302	405	1227	-7.0	9.8	48	13	(6)	13	(6)	121	
69	7	26	1441	405	1227	-32.0	-0.7	17	11	(5)	11	(5)	122	
69	7	26	1621	406	1226	-57.1	-12.2	8	20	(2)	20	(2)	123	
69	7	26	1801	406	1226	-82.1	-11.2	18	18	(2)	18	(2)	124	
69	7	26	1940	406	1225	-107.2	-5.2	19	15	(7)	15	(7)	125	
69	7	26	2120	406	1225	-132.2	-3.2	10	15	(1)	15	(1)	126	
69	7	26	2300	406	1224	-157.2	-0.7	-22	14	(4)	14	(4)	127	
69	7	27	39	406	1223	177.6	2.8	-126	23	(5)	23	(5)	128	
69	7	27	219	406	1223	152.5	8.8	-102	4	(2)	4	(2)	129	
69	7	27	538	406	1222	102.5	9.0	-87	24	(11)	24	(11)	131	
69	7	27	718	406	1221	77.4	8.0	-125	35	(20)	35	(20)	132	
69	7	27	1037	406	1220	27.3	9.8	-58	18	(12)	18	(12)	133	
69	7	27	1216	406	1220	2.3	10.3	-62	20	(0)	20	(0)	134	
69	7	27	1536	406	1219	-47.7	-9.7	-43	9	(1)	9	(1)	136	
69	7	27	1715	406	1218	-72.8	-12.2	-51	20	(13)	20	(13)	137	
69	7	27	1855	406	1218	-97.8	-7.7	-72	34	(8)	34	(8)	138	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP.	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	7	28	134	407	1215	161.9	6.3	-37	14	(5)	14	(5)	3	
69	7	28	454	407	1214	111.8	8.3	-34	15	(2)	15	(2)	4	
69	7	28	633	407	1214	86.8	9.8	-36	17	(7)	17	(7)	5	
69	7	28	812	407	1213	61.7	8.8	-38	10	(9)	10	(9)	6	
69	7	28	1132	407	1212	11.6	10.8	-47	27	(1)	27	(1)	8	
69	7	28	1312	407	1212	-13.3	8.8	-40	38	(1)	38	(1)	9	
69	7	28	1451	407	1211	-38.4	-5.0	-37	29	(6)	29	(6)	10	
69	7	28	1631	408	1210	-63.4	-14.0	-58	47	(4)	48	(4)	11	
69	7	28	1811	408	1210	-88.5	-10.0	-44	40	(8)	40	(8)	12	
69	7	28	1950	408	1209	-113.5	-5.0	-32	25	(2)	25	(2)	13	
69	7	28	2130	408	1209	-138.6	-2.2	-18	16	(2)	16	(2)	14	
69	7	29	2309	408	1208	-163.6	-0.3	-25	17	(1)	17	(1)	15	
69	7	29	49	408	1208	171.2	4.3	-16	3	(2)	3	(2)	16	
69	7	29	408	409	1207	121.2	7.8	-27	16	(4)	16	(4)	18	
69	7	29	548	409	1206	96.1	8.8	-34	27	(4)	27	(4)	19	
69	7	29	728	409	1206	71.1	9.1	-22	13	(5)	13	(5)	20	
69	7	29	908	409	1205	46.0	8.8	-42	25	(7)	25	(7)	21	
69	7	29	1047	409	1205	21.0	9.8	-26	22	(8)	22	(8)	22	
69	7	29	1407	409	1204	-29.0	-5.7	-12	15	(2)	15	(2)	23	
69	7	29	1546	410	1203	-54.1	-9.2	-10	7	(4)	7	(4)	24	
69	7	29	1905	410	1202	-104.2	-6.2	-17	25	(3)	25	(3)	25	
69	7	29	2045	411	1202	-129.2	-3.7	-13	22	(3)	22	(3)	26	
69	7	29	2225	411	1201	-154.3	-1.3	-4	19	(2)	19	(2)	27	
69	7	30	4	411	1200	-179.3	1.5	-23	35	(4)	36	(4)	28	
69	7	30	144	411	1200	155.6	7.3	-22	30	(2)	31	(2)	29	
69	7	30	324	412	1200	130.5	8.3	-28	22	(1)	22	(1)	30	
69	7	30	643	412	1158	80.4	9.0	9	0	(1)	0	(1)	31	
69	7	30	823	412	1158	55.4	8.0	17	0	(1)	0	(1)	32	
69	7	30	1006	411	1157	30.2	10.0	2	0	(1)	0	(1)	33	
69	7	30	1142	412	1157	5.3	10.3	-9	16	(5)	16	(5)	34	
69	7	30	1322	413	1156	-19.7	6.9	-4	14	(7)	14	(7)	35	
69	7	30	1501	413	1156	-44.7	-7.7	-15	40	(3)	41	(3)	36	
69	7	30	1641	413	1155	-69.7	-13.7	-14	38	(9)	39	(9)	37	
69	7	30	1821	414	1155	-94.8	-8.2	-68	48	(7)	50	(7)	38	
69	7	30	2000	414	1154	-119.9	-4.2	-7	21	(3)	21	(3)	39	
69	7	30	2140	414	1154	-144.9	-2.0	-18	12	(3)	12	(3)	40	
69	7	31	59	415	1153	164.9	6.0	-23	8	(4)	8	(4)	41	
69	7	31	238	415	1152	139.9	7.8	-24	20	(3)	20	(3)	42	
69	7	31	416	415	1151	114.8	7.8	-20	15	(2)	15	(2)	43	
69	7	31	559	416	1151	89.8	9.8	-22	16	(3)	16	(3)	44	
69	7	31	738	416	1150	64.7	8.5	-17	12	(9)	12	(9)	45	
69	7	31	1057	416	1149	14.6	3.1	-19	99	(99)	99	(99)	46	
69	7	31	1236	417	1149	-10.3	9.1	-10	13	(2)	13	(2)	47	
69	7	31	1416	417	1148	-35.4	-10.0	-12	99	(99)	99	(99)	48	
69	7	31	1556	417	1148	-60.4	-12.7	-27	5	(3)	5	(3)	49	
69	7	31	1915	418	1147	-110.5	-5.2	-25	33	(7)	34	(7)	51	
69	7	31	2055	418	1146	-135.5	-2.7	-12	16	(1)	16	(1)	52	
69	8	1	154	419	1145	149.2	7.8	-28	31	(3)	32	(3)	53	
69	8	1	334	420	1144	124.2	8.3	-30	19	(5)	20	(5)	54	
69	8	1	513	420	1144	99.1	9.3	-38	23	(3)	24	(3)	55	
69	8	1	833	421	1142	49.0	8.3	-19	17	(4)	18	(4)	56	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	8	1	1012	421	1142	24.0	8.3	-22	12	(8)	12	(8)	57	
69	8	1	1152	421	1141	-1.0	10.3	-24	18	(7)	19	(7)	58	
69	8	1	1331	422	1141	-26.0	2.3	-7	8	(5)	8	(5)	59	
69	8	1	1511	422	1140	-51.0	-10.2	-20	17	(2)	18	(2)	60	
69	8	1	1830	423	1139	-101.1	-5.7	-22	25	(9)	26	(9)	62	
69	8	1	2010	423	1139	-126.2	-3.2	-12	12	(7)	12	(7)	63	
69	8	1	2149	424	1138	-151.2	-1.5	-1	5	(3)	5	(3)	64	
69	8	1	2329	424	1138	-176.3	1.9	-16	20	(1)	21	(1)	65	
69	8	2	109	425	1137	158.6	6.3	-7	17	(3)	18	(3)	66	
69	8	2	249	425	1137	133.5	8.3	-3	3	(2)	3	(2)	67	
69	8	2	428	425	1136	108.5	8.3	-19	11	(1)	11	(1)	68	
69	8	2	748	426	1135	58.4	8.3	-5	5	(1)	5	(1)	69	
69	8	2	1106	427	1134	8.3	9.8	-10	16	(4)	17	(4)	71	
69	8	2	1246	427	1133	-16.6	8.3	-2	17	(10)	18	(10)	72	
69	8	2	1426	428	1133	-41.7	-5.7	-16	28	(7)	30	(7)	73	
69	8	2	1606	428	1132	-66.7	-13.5	-20	35	(6)	38	(6)	74	
69	8	2	1745	429	1132	-91.8	-9.2	-13	38	(1)	41	(1)	75	
69	8	2	1925	429	1131	-116.8	-4.2	20	14	(4)	15	(4)	76	
69	8	2	2105	429	1131	-141.9	-1.7	14	11	(3)	11	(3)	77	
69	8	2	2244	430	1130	-166.9	-0.2	13	16	(3)	17	(3)	78	
69	8	3	24	430	1130	168.0	4.8	24	8	(1)	8	(1)	79	
69	8	3	203	428	1129	142.8	7.8	4	8	(4)	8	(4)	80	
69	8	3	343	431	1129	117.9	7.8	1	14	(1)	15	(1)	81	
69	8	3	523	432	1128	92.8	9.8	-6	24	(2)	26	(2)	82	
69	8	3	703	432	1128	67.8	8.6	13	11	(2)	12	(2)	83	
69	8	3	842	433	1127	42.7	8.6	-7	14	(3)	15	(3)	84	
69	8	3	1022	433	1127	17.7	999.9	999	99	(99)	99	(99)	85	MISSING OR INCOMPLETE DATA
69	8	3	1201	433	1126	-7.3	10.0	10	5	(5)	5	(5)	86	
69	8	3	1341	434	1125	-32.3	4.2	-2	14	(5)	15	(5)	87	
69	8	3	1521	435	1125	-57.3	-12.7	-26	24	(3)	26	(3)	88	
69	8	3	1840	436	1124	-107.4	-5.7	-9	24	(5)	26	(5)	90	
69	8	3	2019	436	1123	-132.5	-2.3	-9	10	(5)	11	(5)	91	
69	8	3	2159	437	1123	-157.5	-1.0	-23	12	(1)	13	(1)	92	
69	8	3	2339	437	1122	177.3	2.8	-28	9	(2)	10	(2)	93	
69	8	4	119	437	1122	152.3	7.8	-29	7	(1)	7	(1)	94	
69	8	4	438	439	1121	102.2	9.3	-55	24	(9)	26	(10)	96	
69	8	4	617	439	1120	77.2	9.3	-34	16	(1)	17	(1)	97	
69	8	4	757	440	1120	52.1	9.0	-26	8	(5)	9	(5)	98	
69	8	4	937	440	1119	27.1	9.8	-48	23	(6)	25	(6)	99	
69	8	4	1116	441	1119	2.0	10.0	-18	14	(4)	15	(4)	100	
69	8	4	1256	441	1118	-22.9	5.3	-13	12	(1)	13	(1)	101	
69	8	4	1436	442	1118	-48.0	-8.7	-12	13	(6)	14	(6)	102	
69	8	4	1615	443	1117	-73.0	-12.7	-17	17	(7)	19	(7)	103	
69	8	4	1934	444	1116	-123.1	-4.2	-16	8	(2)	9	(2)	105	
69	8	4	2114	444	1115	-148.1	-1.7	-9	3	(2)	3	(2)	106	
69	8	4	2253	445	1115	-173.2	0.8	-18	7	(6)	7	(6)	107	
69	8	5	33	445	1114	161.7	7.5	-7	3	(4)	3	(4)	108	
69	8	5	213	446	1114	136.6	7.8	-28	14	(2)	16	(2)	109	
69	8	5	353	447	1113	111.6	8.3	-48	21	(3)	24	(3)	110	
69	8	5	532	447	1113	86.5	8.8	-32	24	(10)	27	(11)	111	
69	8	5	712	447	1112	61.5	8.3	-15	15	(3)	17	(3)	112	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	8	5	852	448	1112	36.5	9.3	-14	4	(1)	4	(1)	113	
69	8	5	1031	448	1111	11.4	10.8	-23	15	(5)	17	(5)	114	
69	8	5	1351	450	1110	-38.6	-3.7	-3	7	(1)	8	(1)	116	
69	8	5	1530	450	1110	-63.6	-13.7	-30	11	(7)	12	(8)	117	
69	8	5	1850	452	1109	-113.7	-4.7	-16	19	(5)	22	(5)	119	
69	8	5	2029	452	1108	-138.8	-2.7	-15	15	(3)	17	(3)	120	
69	8	5	2209	453	1108	-163.8	-0.7	-28	26	(5)	30	(5)	121	
69	8	5	2348	453	1107	171.1	4.3	-22	20	(1)	23	(1)	122	
69	8	6	128	451	1107	145.9	8.0	-20	13	(5)	15	(5)	123	
69	8	6	307	455	1106	121.0	8.3	-14	7	(2)	8	(2)	124	
69	8	6	447	455	1106	95.9	9.5	-26	16	(4)	18	(4)	125	
69	8	6	807	456	1104	45.8	8.0	-15	12	(3)	14	(3)	126	
69	8	6	946	457	1104	20.8	9.3	-25	23	(6)	27	(7)	127	
69	8	6	1126	458	1103	-4.1	9.8	-19	22	(4)	26	(4)	128	
69	8	7	43	463	1059	155.4	7.8	8	6	(3)	7	(3)	129	
69	8	7	223	464	1059	130.4	8.3	16	10	(2)	12	(2)	130	
69	8	7	402	464	1058	105.3	8.3	3	9	(1)	10	(1)	131	
69	8	7	542	465	1058	80.3	9.3	-1	12	(1)	14	(1)	132	
69	8	7	722	466	1057	55.2	8.3	0	5	(1)	6	(1)	133	
69	8	7	901	466	1056	30.2	10.0	6	6	(3)	7	(3)	134	
69	8	7	1041	467	1056	6.6	11.0	12	8	(6)	9	(7)	135	
69	8	7	1220	468	1055	-19.8	7.8	18	10	(7)	12	(8)	136	
69	8	7	1539	469	1052	-69.9	-13.0	0	99	(99)	99	(99)	137	MISSING OR INCOMPLETE DATA
69	8	7	1859	471	1053	-120.0	-4.2	17	10	(4)	12	(4)	139	
69	8	7	2039	471	1053	-145.0	-1.7	-3	6	(2)	7	(2)	140	
69	8	7	2358	473	1052	164.8	5.3	-9	10	(1)	12	(1)	141	
69	8	8	138	474	1051	139.8	9.0	-3	2	(2)	2	(2)	142	
69	8	8	317	474	1051	114.7	8.0	-9	9	(1)	11	(1)	143	
69	8	8	457	475	1050	89.7	9.8	-10	14	(3)	17	(3)	144	
69	8	8	636	476	1050	64.6	8.8	-14	12	(9)	14	(11)	145	
69	8	8	816	476	1049	39.6	9.0	-20	12	(3)	14	(3)	146	
69	8	8	956	477	1049	14.6	11.0	-8	7	(2)	8	(2)	147	
69	8	8	1135	478	1048	-10.4	9.3	-13	21	(3)	26	(3)	148	
69	8	8	1315	478	1048	-35.4	-3.2	-11	23	(5)	28	(6)	149	
69	8	8	1455	479	1047	-60.5	-12.2	-2	5	(10)	6	(12)	150	
69	8	8	1953	481	1045	-135.6	-2.7	6	7	(2)	8	(2)	153	
69	8	8	2133	482	1045	-160.6	-0.7	-9	16	(1)	20	(1)	154	
69	8	8	2313	483	1044	174.2	3.3	-5	10	(2)	12	(2)	155	
69	8	9	52	484	1044	149.2	7.3	-11	14	(4)	17	(5)	156	
69	8	9	232	485	1044	124.1	8.0	-23	16	(2)	20	(2)	157	
69	8	9	412	485	1043	99.1	9.8	-8	16	(5)	20	(6)	158	
69	8	9	551	486	1042	74.1	9.6	-2	10	(3)	12	(3)	159	
69	8	9	731	487	1042	49.0	9.1	-16	14	(8)	18	(10)	160	
69	8	9	911	487	1041	24.0	7.8	-10	6	(4)	7	(5)	161	
69	8	9	1050	488	1041	-1.0	10.5	-4	8	(6)	10	(7)	162	
69	8	9	1230	489	1040	-26.0	3.3	-8	14	(2)	18	(2)	163	
69	8	9	1409	490	1040	-51.0	-10.2	-15	18	(4)	23	(5)	164	
69	8	9	1908	492	1038	-126.2	-3.5	-14	18	(3)	23	(3)	166	
69	8	9	2048	493	1038	-151.2	-1.7	-3	10	(1)	13	(1)	167	
69	8	9	2228	494	1037	-176.3	2.3	-14	14	(4)	18	(5)	168	
69	8	10	7	495	1036	158.6	7.3	-6	6	(4)	7	(5)	169	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	8	10	147	496	1036	133.6	8.3	-10	4	(1)	5	(1)	170	
69	8	10	326	497	1036	108.5	8.8	-28	17	(4)	22	(5)	171	
69	8	10	506	497	1035	83.5	9.3	-26	22	(1)	29	(1)	172	
69	8	10	645	498	1034	58.4	8.8	-15	12	(8)	15	(10)	173	
69	8	10	825	499	1034	33.4	10.0	-25	10	(6)	13	(7)	174	
69	8	10	1004	500	1033	8.4	11.0	-10	7	(3)	9	(4)	175	
69	8	10	1145	501	1033	-16.6	9.0	-5	9	(6)	12	(8)	176	
69	8	10	1324	501	1032	-41.6	-5.5	-15	17	(4)	22	(5)	177	
69	8	10	1643	503	1031	-91.7	-9.0	-23	25	(3)	33	(4)	179	
69	8	10	1823	504	1031	-116.8	-4.2	-4	15	(5)	20	(6)	180	
69	8	10	2003	505	1030	-141.8	-2.2	-6	13	(3)	17	(4)	181	
69	8	10	2142	506	1030	-166.8	-0.2	-13	17	(1)	23	(1)	182	
69	8	10	2322	507	1029	168.0	4.8	-2	5	(2)	6	(2)	183	
69	8	11	101	507	1029	143.0	8.3	-1	2	(1)	2	(1)	184	
69	8	11	241	508	1028	117.9	8.0	-15	12	(3)	16	(4)	185	
69	8	11	421	509	1028	92.9	10.0	-16	16	(3)	21	(4)	186	
69	8	11	600	510	1027	67.9	8.3	-11	8	(8)	10	(10)	187	
69	8	11	740	511	1027	42.8	8.3	-15	11	(4)	15	(5)	188	
69	8	11	920	511	1026	17.8	8.3	-3	11	(7)	15	(9)	189	
69	8	11	1059	512	1026	-7.2	9.8	0	14	(4)	19	(5)	190	
69	8	11	1239	513	1025	-32.2	-1.2	7	10	(1)	13	(1)	191	
69	8	11	1419	514	1024	-57.3	-11.7	8	9	(3)	12	(4)	192	
69	8	11	1558	515	1023	-82.3	-11.2	9	99	(99)	99	(99)	193	AMP. TOO BROAD TO CALCULATE
69	8	11	1738	516	1023	-107.3	-5.7	18	11	(9)	15	(12)	194	
69	8	11	2057	518	1022	-157.4	-1.3	8	15	(2)	20	(2)	195	
69	8	11	2237	519	1022	177.4	2.6	10	16	(2)	22	(2)	196	
69	8	12	16	520	1021	152.4	7.5	28	4	(1)	5	(1)	197	
69	8	12	156	521	1021	127.4	8.3	-12	8	(2)	11	(2)	198	
69	8	12	336	521	1020	102.3	8.8	-13	15	(4)	21	(5)	199	
69	8	12	515	522	1020	77.3	9.3	-11	12	(3)	16	(4)	200	
69	8	12	834	524	1019	27.2	9.0	-16	1	(1)	1	(1)	202	
69	8	12	1014	525	1018	2.2	11.3	-13	8	(6)	11	(8)	203	
69	8	12	1154	526	1018	-22.8	5.3	-28	9	(2)	12	(2)	204	
69	8	12	1333	527	1017	-47.8	-8.7	-39	25	(5)	35	(7)	205	
69	8	12	1653	529	1016	-97.9	-7.8	-31	16	(5)	23	(7)	207	
69	8	12	2151	531	1014	-173.0	1.3	-10	11	(3)	15	(4)	210	
69	8	12	2331	532	1014	161.8	7.0	-12	8	(4)	11	(5)	211	
69	8	13	430	535	1013	86.7	9.5	-23	13	(2)	19	(2)	212	
69	8	13	610	536	1012	61.7	7.8	-22	10	(3)	14	(4)	213	
69	8	13	929	538	1011	11.6	11.0	-21	7	(4)	10	(5)	214	
69	8	13	1108	539	1010	-13.4	8.7	-17	13	(2)	19	(2)	215	
69	8	13	1248	540	1010	-38.4	-4.0	-21	21	(6)	31	(8)	216	
69	8	13	1428	541	1009	-63.4	-13.8	-25	21	(6)	31	(8)	217	
69	8	13	1607	542	1009	-88.5	-9.0	-17	10	(5)	14	(7)	218	
69	8	13	1747	543	1008	-113.5	-4.0	3	9	(7)	13	(10)	219	
69	8	13	2106	545	1007	-163.6	0.0	-15	9	(1)	13	(1)	221	
69	10	1	304	434	1610	-166.4	-1.4	-58	5	(3)	5	(3)	3	
69	10	1	443	434	1609	168.5	999.9	999	99	(99)	99	(99)	4	NO ELECTROJET
69	10	1	623	434	1609	143.5	999.9	999	99	(99)	99	(99)	5	ELECTROJET TOO BROAD TO CAL.
69	10	1	803	435	1608	118.5	7.6	-52	7	(3)	7	(3)	6	
69	10	1	1122	436	1607	68.4	999.9	999	99	(99)	99	(99)	7	NO ELECTROJET

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	10	1	1301	436	1607	43.4	7.6	-54	9	(2)	10	(2)	8	
69	10	1	1441	437	1606	18.4	4.7	-48	99	(99)	99	(99)	9	
69	10	1	1620	437	1606	-6.6	9.0	-40	15	(8)	16	(8)	10	
69	10	1	1760	438	1605	-31.6	-5.4	-45	10	(2)	11	(2)	11	
69	10	1	2119	436	1604	-81.7	-12.2	-67	10	(3)	11	(3)	12	
69	10	1	2259	440	1603	-106.7	-5.2	-50	12	(6)	13	(6)	13	
69	10	2	38	440	1603	-131.7	-5.3	-55	10	(7)	11	(7)	14	
69	10	2	218	441	1603	-156.7	-1.6	-60	10	(3)	11	(3)	15	
69	10	2	357	441	1602	178.2	2.3	-45	7	(2)	7	(2)	16	
69	10	2	856	443	1600	103.1	9.6	-91	8	(3)	9	(3)	17	
69	10	2	1036	443	1600	78.0	999.9	999	99	(99)	99	(99)	18	ELECTROJET TOO BROAD TO CAL.
69	10	2	1215	444	1559	53.0	6.3	-74	11	(3)	12	(3)	19	
69	10	2	1534	445	1558	3.0	9.6	-101	13	(7)	14	(7)	20	
69	10	2	1714	445	1558	-22.0	4.6	-73	6	(3)	6	(3)	21	
69	10	2	1853	446	1557	-47.0	-8.0	-65	10	(5)	11	(5)	22	
69	10	2	2033	441	1557	-72.2	-13.0	-62	10	(4)	11	(4)	23	
69	10	2	2213	447	1556	-97.0	999.9	999	99	(99)	99	(99)	24	MISSING OR INCOMPLETE DATA
69	10	2	2352	448	1556	-122.1	-4.9	-57	10	(2)	11	(2)	25	
69	10	3	132	448	1555	-147.1	-2.0	-53	13	(2)	14	(2)	26	
69	10	3	311	449	1555	-172.1	0.6	-65	13	(3)	15	(3)	27	
69	10	3	451	450	1554	162.8	6.0	-42	5	(2)	5	(2)	28	
69	10	3	630	450	1554	137.7	8.6	-53	5	(1)	5	(1)	29	
69	10	3	810	450	1553	112.7	8.6	-46	8	(2)	9	(2)	30	
69	10	3	950	451	1553	87.7	9.0	-47	5	(4)	5	(4)	31	
69	10	3	1129	452	1552	62.7	7.7	-56	21	(7)	24	(8)	32	
69	10	3	1309	452	1552	37.6	8.6	-78	8	(2)	9	(2)	33	
69	10	3	1448	453	1551	12.6	11.0	-71	5	(1)	5	(1)	34	
69	10	3	1628	454	1551	-12.3	8.7	-68	14	(6)	16	(7)	35	
69	10	3	1807	454	1550	-37.3	-3.0	-56	14	(1)	16	(1)	36	
69	10	3	1947	455	1550	-62.4	-14.4	-53	10	(0)	11	(0)	37	
69	10	3	2126	452	1549	-87.5	-10.4	-52	17	(2)	19	(2)	38	
69	10	4	225	457	1548	-162.5	-1.0	-44	12	(1)	14	(1)	39	
69	10	4	405	458	1547	172.4	999.9	999	99	(99)	99	(99)	40	NO ELECTROJET
69	10	4	544	459	1547	147.4	2.2	-38	2	(1)	2	(1)	41	
69	10	4	723	448	1546	122.1	999.9	999	99	(99)	99	(99)	42	NO ELECTROJET
69	10	4	903	460	1546	97.3	9.0	-32	6	(0)	7	(0)	43	
69	10	4	1043	461	1545	72.3	999.9	999	99	(99)	99	(99)	44	NO ELECTROJET
69	10	4	1223	461	1544	47.3	6.6	-34	13	(1)	15	(1)	45	
69	10	4	1402	462	1544	22.3	999.9	999	99	(99)	99	(99)	46	NO ELECTROJET
69	10	4	1542	462	1543	-2.7	9.6	-16	6	(2)	7	(2)	47	
69	10	4	1721	463	1543	-27.7	999.9	999	99	(99)	99	(99)	48	NO ELECTROJET
69	10	4	1901	464	1542	-52.7	-11.0	-38	12	(1)	14	(1)	49	
69	10	4	2040	459	1542	-77.9	-12.4	-28	5	(1)	5	(1)	50	
69	10	4	2220	465	1541	-102.8	999.9	999	99	(99)	99	(99)	51	MISSING OR INCOMPLETE DATA
69	10	4	2360	466	1541	-127.8	-5.0	-35	7	(3)	8	(3)	52	
69	10	5	139	467	1540	-152.8	-1.8	-29	10	(3)	12	(3)	53	
69	10	5	319	467	1540	-177.8	2.0	-23	8	(0)	9	(0)	54	
69	10	5	458	468	1539	157.0	999.9	999	99	(99)	99	(99)	55	NO ELECTROJET
69	10	5	638	468	1539	132.0	8.4	-22	4	(1)	4	(1)	56	
69	10	5	957	470	1538	82.0	999.9	999	99	(99)	99	(99)	57	NO ELECTROJET
69	10	5	1136	471	1537	56.9	999.9	999	99	(99)	99	(99)	58	MISSING OR INCOMPLETE DATA

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	10	5	1316	471	1537	31.9	9.0	-17	10	(1)	12	(1)	59	
69	10	5	1456	472	1536	6.9	9.6	-6	5	(3)	6	(3)	60	
69	10	5	1635	473	1536	-18.0	7.0	-2	7	(4)	8	(4)	61	
69	10	5	2134	475	1534	-93.1	-9.4	-39	14	(2)	17	(2)	62	
69	10	5	2313	476	1534	-118.1	-4.8	-15	9	(1)	11	(1)	63	
69	10	6	53	476	1533	-143.2	-2.0	-16	8	(2)	9	(2)	64	
69	10	6	232	477	1533	-168.2	-0.8	-33	8	(1)	10	(1)	65	
69	10	6	412	478	1532	166.7	999.9	999	99	(99)	99	(99)	66	NO ELECTROJET
69	10	6	552	478	1532	141.7	7.3	-31	2	(1)	2	(1)	67	
69	10	6	731	479	1531	116.6	8.0	-35	10	(1)	12	(1)	68	
69	10	6	911	480	1531	91.6	8.8	-13	3	(1)	3	(1)	69	
69	10	6	1050	481	1530	66.6	999.9	999	99	(99)	99	(99)	70	ELECTROJET TOO BROAD TO CAL.
69	10	6	1230	481	1529	41.6	999.9	999	99	(99)	99	(99)	71	ELECTROJET TOO BROAD TO CAL.
69	10	6	1409	482	1529	16.5	11.0	-28	4	(2)	5	(2)	72	
69	10	6	1549	483	1528	-8.4	8.4	-20	15	(6)	19	(7)	73	
69	10	6	1729	484	1528	-33.4	-2.2	-55	8	(4)	10	(5)	74	
69	10	6	1908	484	1526	-58.4	999.9	999	99	(99)	99	(99)	75	MISSING OR INCOMPLETE DATA
69	10	6	2048	485	1527	-83.5	999.9	999	99	(99)	99	(99)	76	MISSING OR INCOMPLETE DATA
69	10	6	2227	486	1526	-108.5	999.9	999	99	(99)	99	(99)	77	MISSING OR INCOMPLETE DATA
69	10	7	7	487	1526	-133.5	-4.0	-27	8	(1)	10	(1)	78	
69	10	7	146	488	1526	-158.5	-1.2	-36	9	(2)	11	(2)	79	
69	10	7	326	489	1525	176.3	3.6	-43	6	(1)	7	(1)	80	
69	10	7	505	489	1524	151.3	999.9	999	99	(99)	99	(99)	81	NO ELECTROJET
69	10	7	645	490	1524	126.3	999.9	999	99	(99)	99	(99)	82	NO ELECTROJET
69	10	7	825	491	1523	101.3	9.0	-32	8	(2)	10	(2)	83	
69	10	7	1004	491	1523	76.2	999.9	999	99	(99)	99	(99)	84	NO ELECTROJET
69	10	7	1144	492	1522	51.2	8.0	-33	7	(2)	9	(2)	85	
69	10	7	1323	493	1522	26.2	9.6	-26	14	(4)	18	(5)	86	
69	10	7	1503	494	1521	1.2	9.8	-16	11	(2)	14	(2)	87	
69	10	7	1642	494	1521	-23.7	999.9	999	99	(99)	99	(99)	88	NO ELECTROJET
69	10	7	1822	495	1520	-48.8	-8.9	-24	6	(1)	7	(1)	89	
69	10	7	2001	488	1518	-73.9	999.9	999	99	(99)	99	(99)	90	MISSING OR INCOMPLETE DATA
69	10	7	2141	497	1519	-98.8	999.9	999	99	(99)	99	(99)	91	MISSING OR INCOMPLETE DATA
69	10	8	100	499	1518	-148.9	-2.2	-18	6	(2)	7	(2)	92	
69	10	8	240	500	1518	-173.9	0.5	-17	9	(3)	12	(4)	93	
69	10	8	419	500	1517	161.0	5.8	-13	8	(1)	10	(1)	94	
69	10	8	560	519	1518	136.3	999.9	999	99	(99)	99	(99)	95	MISSING OR INCOMPLETE DATA
69	10	8	738	502	1516	110.9	8.2	-9	6	(1)	8	(1)	96	
69	10	8	1057	504	1515	60.9	6.8	-8	6	(4)	8	(5)	97	
69	10	8	1237	504	1514	35.9	9.0	-11	8	(1)	10	(1)	98	
69	10	8	1417	505	1514	10.8	10.8	-7	5	(1)	6	(1)	99	
69	10	8	1736	507	1513	-39.1	999.9	999	99	(99)	99	(99)	100	NO ELECTROJET
69	10	8	2054	508	1512	-89.3	-10.0	-26	10	(2)	13	(2)	101	
69	10	8	2234	510	1511	-114.2	-5.8	-9	4	(1)	5	(1)	102	
69	10	9	14	511	1511	-139.2	-2.8	-12	3	(1)	4	(1)	103	
69	10	9	153	511	1511	-164.2	-0.8	-16	7	(1)	9	(1)	104	
69	10	9	333	512	1510	170.7	999.9	999	99	(99)	99	(99)	105	ELECTROJET TOO BROAD TO CAL.
69	10	9	513	513	1509	145.6	8.4	-17	3	(2)	4	(2)	106	
69	10	9	652	514	1509	120.6	7.4	-15	7	(1)	9	(1)	107	
69	10	9	1151	516	1507	45.5	999.9	999	99	(99)	99	(99)	108	NO ELECTROJET
69	10	9	1330	517	1507	20.5	6.0	-14	14	(1)	19	(1)	109	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	10	9	1510	518	1506	-4.4	9.0	-5	7	(6)	9	(8)	110	
69	10	9	1649	519	1506	-29.4	999.9	999	99	(99)	99	(99)	111	NO ELECTROJET
69	10	9	1829	520	1505	-54.4	-10.0	-1	3	(1)	4	(1)	112	
69	10	9	2008	516	1505	-79.5	-12.2	3	4	(2)	5	(2)	113	
69	10	9	2148	522	1504	-104.5	999.9	999	99	(99)	99	(99)	114	MISSING OR INCOMPLETE DATA
69	10	9	2328	523	1504	-129.5	-4.8	21	3	(2)	4	(2)	115	
69	10	10	107	524	1503	-154.5	-1.0	10	3	(1)	4	(1)	116	
69	10	10	247	525	1503	-179.6	3.2	-11	3	(1)	4	(1)	117	
69	10	10	426	525	1500	155.3	999.9	999	99	(99)	99	(99)	118	MISSING OR INCOMPLETE DATA
69	10	10	606	526	1502	130.3	999.9	999	99	(99)	99	(99)	119	NO ELECTROJET
69	10	10	745	527	1501	105.3	999.9	999	99	(99)	99	(99)	120	NO ELECTROJET
69	10	10	1105	541	1500	55.4	999.9	999	99	(99)	99	(99)	121	MISSING OR INCOMPLETE DATA
69	10	10	1244	530	1500	30.2	999.9	999	99	(99)	99	(99)	122	ELECTROJET TOO BROAD TO CAL.
69	10	10	1424	531	1459	5.2	999.9	999	99	(99)	99	(99)	123	ELECTROJET TOO BROAD TO CAL.
69	10	10	1603	532	1458	-19.7	999.9	999	99	(99)	99	(99)	124	NO ELECTROJET
69	10	10	1743	532	1458	-44.8	999.9	999	99	(99)	99	(99)	125	ELECTROJET TOO BROAD TO CAL.
69	10	10	1923	554	1458	-69.5	999.9	999	99	(99)	99	(99)	126	MISSING OR INCOMPLETE DATA
69	10	10	2102	535	1455	-94.8	999.9	999	99	(99)	99	(99)	127	MISSING OR INCOMPLETE DATA
69	10	10	2241	536	1454	-119.8	999.9	999	99	(99)	99	(99)	128	MISSING OR INCOMPLETE DATA
69	10	11	21	537	1456	-144.9	-2.2	-25	7	(1)	10	(1)	129	
69	10	11	200	538	1455	-169.9	-0.4	-32	8	(1)	11	(1)	130	
69	10	11	340	538	1455	165.0	999.9	999	99	(99)	99	(99)	131	NO ELECTROJET
69	10	11	520	539	1454	140.0	999.9	999	99	(99)	99	(99)	132	ELECTROJET TOO BROAD TO CAL.
69	10	11	659	540	1454	115.0	8.6	-28	3	(1)	4	(1)	133	
69	10	11	839	541	1453	89.9	999.9	999	99	(99)	99	(99)	134	ELECTROJET TOO BROAD TO CAL.
69	10	11	1018	542	1453	64.9	999.9	999	99	(99)	99	(99)	135	NO ELECTROJET
69	10	11	1158	543	1452	39.9	999.9	999	99	(99)	99	(99)	136	NO ELECTROJET
69	10	11	1337	544	1452	14.9	999.9	999	99	(99)	99	(99)	137	ELECTROJET TOO BROAD TO CAL.
69	10	11	1517	545	1451	-10.0	8.6	-27	11	(4)	16	(6)	138	
69	10	11	1656	546	1451	-35.1	999.9	999	99	(99)	99	(99)	139	ELECTROJET TOO BROAD TO CAL.
69	10	11	2015	548	1447	-85.1	999.9	999	99	(99)	99	(99)	140	MISSING OR INCOMPLETE DATA
69	10	11	2156	568	1450	-109.8	999.9	999	99	(99)	99	(99)	141	MISSING OR INCOMPLETE DATA
69	10	11	2335	550	1448	-135.2	999.9	999	99	(99)	99	(99)	142	NO ELECTROJET
69	10	12	114	551	1448	-160.2	999.9	999	99	(99)	99	(99)	143	NO ELECTROJET
69	10	12	433	553	1447	149.7	8.6	-16	2	(0)	3	(0)	144	
69	10	12	613	554	1447	124.7	7.4	-16	6	(3)	9	(4)	145	
69	10	12	752	554	1446	99.6	9.8	-38	6	(3)	9	(4)	146	
69	10	12	932	556	1446	74.6	999.9	699	99	(99)	99	(99)	147	ELECTROJET TOO BROAD TO CAL.
69	10	12	1111	556	1445	49.6	6.4	-23	9	(1)	13	(1)	148	
69	10	12	1251	558	1444	24.6	7.0	-40	11	(4)	17	(6)	149	
69	10	12	1431	558	1444	-0.3	999.9	999	99	(99)	99	(99)	150	ELECTROJET TOO BROAD TO CAL.
69	10	12	1750	560	1443	-50.4	-9.4	-30	4	(1)	6	(1)	151	
69	10	12	2109	562	1442	-100.4	999.9	999	99	(99)	99	(99)	152	MISSING OR INCOMPLETE DATA
69	10	13	28	563	1441	-150.5	-2.0	-7	3	(1)	4	(1)	153	
69	10	13	207	566	1440	-175.5	999.9	999	99	(99)	99	(99)	154	ELECTROJET TOO BROAD TO CAL.
69	10	13	347	566	1440	159.4	7.4	-11	5	(1)	7	(1)	155	
69	10	13	526	567	1439	134.4	7.8	-23	6	(2)	9	(3)	156	
69	10	13	706	568	1439	109.3	9.0	-18	6	(1)	9	(1)	157	
69	10	13	846	570	1438	84.3	8.4	-2	7	(6)	11	(9)	158	
69	10	13	1026	588	1438	59.5	999.9	999	99	(99)	99	(99)	159	MISSING OR INCOMPLETE DATA
69	10	13	1205	572	1437	34.3	999.9	999	99	(99)	99	(99)	160	ELECTROJET TOO BROAD TO CAL.

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	10	13	1344	572	1437	9.3	10.6	-3	2	(1)	3	(1)	161	
69	10	13	1524	574	1436	-15.7	7.6	-8	3	(1)	4	(1)	162	
69	10	13	1703	574	1436	-40.7	-5.4	-18	6	(2)	9	(3)	163	
69	10	13	2022	577	1433	-90.7	999.9	999	99	(99)	99	(99)	164	MISSING OR INCOMPLETE DATA
69	10	13	2202	578	1434	-115.8	-4.4	-9	5	(3)	8	(4)	165	
69	10	13	2341	579	1433	-140.8	-2.8	-10	8	(0)	13	(0)	166	
69	10	14	121	580	1433	-165.8	0.4	-1	3	(1)	4	(1)	167	
69	10	14	440	582	1432	144.1	7.6	-9	5	(2)	8	(3)	168	
69	10	14	759	584	1431	94.0	9.0	-1	5	(2)	8	(3)	169	
69	10	14	939	585	1430	69.0	999.9	999	99	(99)	99	(99)	170	NO ELECTROJET
69	10	14	1118	586	1430	44.0	5.0	-1	2	(2)	3	(3)	171	
69	10	14	1258	587	1429	19.0	999.9	999	99	(99)	99	(99)	172	NO ELECTROJET
69	10	14	1437	588	1429	-6.0	8.8	0	8	(4)	13	(6)	173	
69	10	14	1617	589	1428	-31.0	999.9	999	99	(99)	99	(99)	174	ELECTROJET TOO BROAD TO CAL.
69	10	14	1936	591	1426	-81.0	999.9	999	99	(99)	99	(99)	175	MISSING OR INCOMPLETE DATA
69	10	14	2115	592	1427	-106.0	-7.0	-16	10	(2)	16	(3)	176	
69	10	14	2255	594	1426	-131.1	999.9	999	99	(99)	99	(99)	177	ELECTROJET TOO BROAD TO CAL.
69	10	15	35	595	1426	-156.1	999.9	999	99	(99)	99	(99)	178	ELECTROJET TOO BROAD TO CAL.
69	10	15	533	598	1424	128.8	7.8	-12	2	(1)	3	(1)	179	
69	10	15	713	599	1424	103.7	9.4	-14	4	(3)	6	(5)	180	
69	10	15	852	600	1423	78.7	8.0	2	5	(4)	8	(6)	181	
69	10	15	1032	601	1423	53.7	6.2	-8	4	(4)	6	(6)	182	
69	10	15	1211	602	1422	28.7	9.0	-4	6	(1)	10	(1)	183	
69	10	15	1530	604	1421	-21.3	999.9	999	99	(99)	99	(99)	184	NO ELECTROJET
69	10	15	1710	605	1420	-46.3	-8.0	-11	6	(1)	10	(1)	185	
69	10	15	1851	631	1422	-71.0	999.9	999	99	(99)	99	(99)	186	MISSING OR INCOMPLETE DATA
69	10	15	2348	610	1418	-146.4	-1.8	-2	7	(1)	12	(1)	187	
69	10	16	128	611	1418	-171.4	-0.4	-1	3	(1)	5	(1)	188	
69	10	16	307	612	1417	163.5	7.7	-3	6	(2)	10	(3)	189	
69	10	16	447	613	1417	138.5	8.0	-13	9	(2)	16	(3)	190	
69	10	16	626	614	1416	113.5	8.8	-11	10	(2)	17	(3)	191	
69	10	16	806	615	1416	88.4	9.2	7	8	(2)	14	(3)	192	
69	10	16	945	616	1415	63.4	6.8	6	4	(3)	7	(5)	193	
69	10	16	1125	617	1415	38.4	999.9	999	99	(99)	99	(99)	194	NO ELECTROJET
69	10	16	1304	618	1414	13.4	11.0	3	4	(0)	7	(0)	195	
69	10	16	1444	619	1414	-11.5	8.6	4	6	(1)	10	(1)	196	
69	10	16	1623	620	1413	-36.6	999.9	999	99	(99)	99	(99)	197	ELECTROJET TOO BROAD TO CAL.
69	10	16	1943	622	1411	-86.6	999.9	999	99	(99)	99	(99)	198	MISSING OR INCOMPLETE DATA
69	10	16	2122	624	1412	-111.6	999.9	999	99	(99)	99	(99)	199	NO ELECTROJET
69	10	16	2302	625	1411	-136.6	999.9	999	99	(99)	99	(99)	200	ELECTROJET TOO BROAD TO CAL.
69	10	17	220	627	1410	173.2	999.9	999	99	(99)	99	(99)	3	NO ELECTROJET
69	10	17	400	628	1410	148.2	7.6	-5	2	(1)	3	(1)	4	
69	10	17	541	661	1410	123.6	999.9	999	99	(99)	99	(99)	5	MISSING OR INCOMPLETE DATA
69	10	17	719	630	1409	98.2	9.6	-9	10	(2)	18	(3)	6	
69	10	17	858	632	1408	73.2	7.6	-3	4	(4)	7	(7)	7	
69	10	17	1038	633	1407	48.1	7.0	-8	7	(2)	13	(3)	8	
69	10	17	1217	634	1407	23.1	8.6	-5	8	(2)	14	(3)	9	
69	10	17	1357	635	1406	-1.8	9.6	4	4	(2)	7	(3)	10	
69	10	17	1537	636	1406	-26.8	2.6	13	2	(2)	3	(3)	11	
69	10	17	1717	637	1405	-51.8	-10.4	4	6	(0)	11	(0)	12	
69	10	17	1856	638	1405	-76.9	-15.0	5	4	(2)	7	(3)	13	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	10	17	2036	639	1404	-101.9	999.9	999	99	(99)	99	(99)	14	MISSING OR INCOMPLETE DATA
69	10	17	2215	641	1404	-126.9	999.9	999	99	(99)	99	(99)	15	ELECTROJET TOO BROAD TO CAL.
69	10	17	2355	642	1403	-151.9	999.9	999	99	(99)	99	(99)	16	ELECTROJET TOO BROAD TO CAL.
69	10	18	134	643	1403	-176.9	999.9	999	99	(99)	99	(99)	17	ELECTROJET TOO BROAD TO CAL.
69	10	18	314	644	1402	157.9	8.4	-12	4	(2)	7	(3)	18	
69	10	18	453	645	1402	132.9	8.6	-28	12	(2)	23	(3)	19	
69	10	18	633	646	1401	107.9	9.3	-39	16	(4)	30	(7)	20	
69	10	18	812	647	1401	82.9	8.6	-28	11	(5)	21	(9)	21	
69	10	18	952	648	1400	57.9	6.6	-23	7	(2)	13	(3)	22	
69	10	18	1133	681	1401	33.2	999.9	999	99	(99)	99	(99)	23	MISSING OR INCOMPLETE DATA
69	10	18	1311	651	1359	7.8	999.9	999	99	(99)	99	(99)	24	NO ELECTROJET
69	10	18	1451	652	1358	-17.1	9.3	-9	8	(4)	15	(7)	25	
69	10	18	1630	653	1358	-42.1	-6.0	-14	8	(2)	15	(3)	26	
69	10	18	1810	653	1357	-67.1	999.9	999	99	(99)	99	(99)	27	MISSING OR INCOMPLETE DATA
69	10	18	1949	651	1357	-92.2	-15.4	-10	5	(4)	9	(7)	28	
69	10	18	2307	641	1356	-142.4	999.9	999	99	(99)	99	(99)	29	NO ELECTROJET
69	10	19	47	652	1355	-167.3	999.9	999	99	(99)	99	(99)	30	NO ELECTROJET
69	10	19	226	654	1355	167.6	999.9	999	99	(99)	99	(99)	31	NO ELECTROJET
69	10	19	545	650	1354	117.5	999.9	999	99	(99)	99	(99)	32	NO ELECTROJET
69	10	19	725	651	1353	92.5	999.9	999	99	(99)	99	(99)	33	NO ELECTROJET
69	10	19	1046	695	1353	43.0	999.9	999	99	(99)	99	(99)	34	MISSING OR INCOMPLETE DATA
69	10	19	1403	652	1351	-7.5	999.9	999	99	(99)	99	(99)	35	NO ELECTROJET
69	10	19	1546	728	1350	-31.6	999.9	999	99	(99)	99	(99)	36	NO ELECTROJET
69	10	19	1723	670	1350	-57.4	-12.4	-41	99	(99)	99	(99)	37	AMP. TOO BROAD TO CALCULATE
69	10	19	1903	671	1349	-82.4	-14.0	-26	6	(1)	12	(2)	38	
69	10	19	2042	678	1349	-107.4	999.9	999	99	(99)	99	(99)	39	ELECTROJET TOO BROAD TO CAL.
69	10	20	1	675	1346	-157.5	999.9	999	99	(99)	99	(99)	40	MISSING OR INCOMPLETE DATA
69	10	20	141	676	1347	177.4	999.9	999	99	(99)	99	(99)	41	ELECTROJET TOO BROAD TO CAL.
69	10	20	320	677	1347	152.4	9.0	-10	3	(0)	6	(0)	42	
69	10	20	500	678	1346	127.4	8.6	-17	6	(1)	12	(2)	43	
69	10	20	639	679	1346	102.4	9.6	-15	7	(2)	14	(4)	44	
69	10	20	819	681	1345	77.3	999.9	999	99	(99)	99	(99)	45	NO ELECTROJET
69	10	20	958	682	1345	52.3	7.0	-7	3	(2)	6	(4)	46	
69	10	20	1138	683	1344	27.3	9.6	0	3	(1)	6	(2)	47	
69	10	20	1317	684	1344	2.3	10.3	0	4	(0)	8	(0)	48	
69	10	20	1457	685	1343	-22.6	4.6	3	3	(2)	6	(4)	49	
69	10	20	1637	686	1343	-47.6	999.9	999	99	(99)	99	(99)	50	NO ELECTROJET
69	10	20	1816	688	1342	-72.7	-14.4	-11	5	(2)	10	(4)	51	
69	10	20	1956	689	1342	-97.7	999.9	999	99	(99)	99	(99)	52	MISSING OR INCOMPLETE DATA
69	10	21	54	693	1340	-172.7	0.6	-3	2	(0)	4	(0)	53	
69	10	21	413	695	1339	137.1	7.0	-7	5	(5)	10	(10)	54	
69	10	21	553	696	1339	112.1	8.1	-7	8	(0)	17	(0)	55	
69	10	21	732	697	1338	87.1	8.0	3	3	(3)	6	(6)	56	
69	10	21	912	698	1337	62.1	7.6	-29	4	(1)	8	(2)	57	
69	10	21	1051	700	1337	37.1	999.9	999	99	(99)	99	(99)	58	NO ELECTROJET
69	10	21	1410	702	1336	-12.9	9.6	-3	7	(2)	15	(4)	59	
69	10	21	1550	703	1335	-37.9	-6.4	-14	7	(4)	15	(8)	60	
69	10	21	1729	704	1335	-62.9	-14.4	-29	8	(2)	17	(4)	61	
69	10	21	1911	739	1336	-87.5	999.9	999	99	(99)	99	(99)	62	MISSING OR INCOMPLETE DATA
69	10	21	2049	707	1334	-112.9	999.9	999	99	(99)	99	(99)	63	NO ELECTROJET
69	10	21	2228	708	1333	-138.0	999.9	999	99	(99)	99	(99)	64	NO ELECTROJET

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	10	22	8	709	1333	-163.0	-1.4	-7	6	(1)	13	(2)	65	
69	10	22	147	710	1332	171.9	999.9	999	99	(99)	99	(99)	66	NO ELECTROJET
69	10	22	327	711	1332	146.9	7.6	-9	5	(1)	11	(2)	67	
69	10	22	506	713	1331	121.9	8.6	-18	8	(1)	17	(2)	68	
69	10	22	825	715	1330	71.8	999.9	999	99	(99)	99	(99)	69	ELECTROJET TOO BROAD TO CAL.
69	10	22	1005	716	1329	46.8	8.6	-23	7	(0)	15	(0)	70	
69	10	22	1144	717	1329	21.8	8.0	-18	6	(1)	13	(2)	71	
69	10	22	1324	718	1328	-3.1	9.6	-12	3	(1)	6	(2)	72	
69	10	22	1822	722	1324	-78.2	999.9	999	99	(99)	99	(99)	73	MISSING OR INCOMPLETE DATA
69	10	22	2002	723	1326	-103.2	999.9	999	99	(99)	99	(99)	74	MISSING OR INCOMPLETE DATA
69	10	22	2141	725	1326	-128.2	999.9	999	99	(99)	99	(99)	75	NO ELECTROJET
69	10	23	101	727	1325	-178.2	3.6	-6	3	(2)	6	(4)	76	
69	10	23	240	728	1324	156.6	999.9	999	99	(99)	99	(99)	77	ELECTROJET TOO BROAD TO CAL.
69	10	23	420	729	1324	131.6	7.6	-12	4	(2)	9	(4)	78	
69	10	23	559	730	1323	106.6	9.6	-17	4	(2)	9	(4)	79	
69	10	23	739	732	1323	81.6	7.6	-4	5	(4)	11	(9)	80	
69	10	23	918	733	1322	56.6	9.0	-8	4	(2)	9	(4)	81	
69	10	23	1059	769	1322	32.0	999.9	999	99	(99)	99	(99)	82	MISSING OR INCOMPLETE DATA
69	10	23	1237	735	1321	6.5	999.9	999	99	(99)	99	(99)	83	NO ELECTROJET
69	10	23	1417	736	1321	-18.4	999.9	999	99	(99)	99	(99)	84	MISSING OR INCOMPLETE DATA
69	10	23	1556	737	1320	-43.4	-6.4	-9	99	(99)	99	(99)	85	AMP. TOO BROAD TO CALCULATE
69	10	23	1738	776	1322	-68.0	-14.4	-12	99	(99)	99	(99)	86	AMP. TOO BROAD TO CALCULATE
69	10	23	1915	740	1319	-93.4	999.9	999	99	(99)	99	(99)	87	NO ELECTROJET
69	10	23	2055	741	1318	-118.4	999.9	999	99	(99)	99	(99)	88	NO ELECTROJET
69	10	23	2234	742	1318	-143.5	-2.4	-5	2	(0)	4	(0)	89	
69	10	24	14	744	1317	-168.5	0.0	-10	5	(1)	11	(2)	90	
69	10	24	153	745	1317	166.4	6.3	0	2	(0)	4	(0)	91	
69	10	24	333	746	1316	141.4	999.9	999	99	(99)	99	(99)	92	NO ELECTROJET
69	10	24	512	747	1316	116.4	6.1	-9	5	(2)	12	(4)	93	
69	10	24	651	748	1315	91.4	8.6	-8	5	(3)	12	(7)	94	
69	10	24	831	749	1315	66.3	8.1	-19	5	(2)	12	(4)	95	
69	10	24	1013	787	1316	41.8	999.9	999	99	(99)	99	(99)	96	MISSING OR INCOMPLETE DATA
69	10	24	1151	752	1313	16.3	10.6	-19	2	(1)	4	(2)	97	
69	10	24	1330	753	1313	-8.6	9.6	-3	2	(0)	4	(0)	98	
69	10	24	1510	754	1313	-33.6	999.9	999	99	(99)	99	(99)	99	NO ELECTROJET
69	10	24	1830	764	1312	-83.2	999.9	999	99	(99)	99	(99)	100	MISSING OR INCOMPLETE DATA
69	10	24	2008	758	1311	-108.7	999.9	999	99	(99)	99	(99)	101	MISSING OR INCOMPLETE DATA
69	10	24	2147	759	1310	-133.7	999.9	999	99	(99)	99	(99)	102	NO ELECTROJET
69	10	24	2327	760	1310	-158.7	999.9	999	99	(99)	99	(99)	103	ELECTROJET TOO BROAD TO CAL.
69	10	25	107	761	1309	176.2	999.9	999	99	(99)	99	(99)	104	NO ELECTROJET
69	10	25	246	763	1309	151.2	999.9	999	99	(99)	99	(99)	105	ELECTROJET TOO BROAD TO CAL.
69	10	25	605	765	1308	101.1	9.6	-19	6	(1)	15	(2)	106	
69	10	25	745	766	1307	76.1	7.1	-14	4	(2)	10	(5)	107	
69	10	25	924	767	1307	51.1	8.1	-20	4	(1)	10	(2)	108	
69	10	25	1104	768	1306	26.1	9.6	-16	6	(1)	15	(2)	109	
69	10	25	1243	770	1306	1.1	9.6	-13	7	(0)	17	(0)	110	
69	10	25	1921	774	1304	-98.9	-9.4	-13	4	(2)	10	(5)	111	
69	10	25	2101	776	1303	-123.9	999.9	999	99	(99)	99	(99)	112	MISSING OR INCOMPLETE DATA
69	10	25	2241	777	1303	-148.9	-0.4	-4	2	(1)	5	(2)	113	
69	10	26	20	778	1302	-173.9	1.6	-1	2	(0)	5	(0)	114	
69	10	26	339	780	1301	135.9	8.4	-8	3	(2)	7	(5)	115	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	10	26	160	779	1301	161.0	8.0	-5	3	(0)	7	(0)	116	
69	10	26	519	782	1300	110.9	9.0	-11	5	(1)	12	(2)	117	
69	10	26	658	783	1300	85.9	9.0	-7	7	(3)	18	(7)	118	
69	10	26	838	784	1259	60.9	999.9	999	99	(99)	99	(99)	119	NO ELECTROJET
69	10	26	1017	785	1258	35.9	7.6	-5	1	(1)	2	(2)	120	
69	10	26	1157	786	1257	10.9	10.0	-3	2	(1)	5	(2)	121	
69	10	26	1336	787	1258	-14.0	9.6	-11	4	(3)	10	(7)	122	
69	10	26	1516	788	1257	-39.1	-5.2	-9	5	(1)	13	(2)	123	
69	10	26	1837	831	1258	-88.6	-12.4	-15	99	(99)	99	(99)	124	AMP. TOO BROAD TO CALCULATE
69	10	26	2154	794	1255	-139.1	999.9	999	99	(99)	99	(99)	125	NO ELECTROJET
69	10	26	2333	795	1255	-164.1	999.9	999	99	(99)	99	(99)	126	ELECTROJET TOO BROAD TO CAL.
69	10	27	113	796	1254	170.8	5.0	1	5	(1)	13	(2)	127	
69	10	27	252	797	1254	145.7	9.6	-1	3	(1)	8	(2)	128	
69	10	27	432	798	1253	120.7	7.5	-10	5	(2)	13	(5)	129	
69	10	27	611	799	1252	95.7	10.0	-6	6	(1)	16	(2)	130	
69	10	27	751	801	1252	70.7	7.1	-6	4	(3)	10	(8)	131	
69	10	27	930	802	1251	45.7	6.6	-15	4	(3)	10	(8)	132	
69	10	27	1110	803	1251	20.7	8.0	-9	4	(2)	10	(5)	133	
69	10	27	1429	804	1250	-29.3	1.6	-11	6	(2)	16	(5)	134	
69	10	27	1608	806	1249	-54.3	-10.4	-35	14	(1)	38	(2)	135	
69	10	27	1748	808	1249	-79.3	999.9	999	99	(99)	99	(99)	136	MISSING OR INCOMPLETE DATA
69	10	27	1927	809	1248	-104.3	999.9	999	99	(99)	99	(99)	137	MISSING OR INCOMPLETE DATA
69	10	27	2247	811	1247	-154.3	999.9	999	99	(99)	99	(99)	138	ELECTROJET TOO BROAD TO CAL.
70	7	15	11	412	1446	-139.8	-2.2	-25	24	(3)	24	(3)	3	
70	7	15	150	412	1445	-164.7	-0.3	-20	16	(2)	16	(2)	4	
70	7	15	329	413	1445	170.3	6.6	-15	7	(1)	7	(1)	5	
70	7	15	648	413	1444	120.5	8.2	-2	8	(2)	8	(2)	6	
70	7	15	827	414	1443	95.6	10.5	-12	9	(6)	9	(6)	7	
70	7	15	1145	414	1442	45.8	999.9	999	99	(99)	99	(99)	8	NO ELECTROJET
70	7	15	1503	414	1441	-3.9	10.0	8	11	(2)	11	(2)	9	
70	7	15	1642	415	1440	-28.8	999.9	999	99	(99)	99	(99)	10	NO ELECTROJET
70	7	15	1821	415	1440	-53.7	-11.2	-18	18	(1)	18	(1)	11	
70	7	15	2000	416	1439	-78.6	-17.7	-3	20	(14)	20	(14)	12	
70	7	15	2139	416	1439	-103.5	-5.8	-4	15	(10)	15	(10)	13	
70	7	16	236	417	1437	-178.2	2.0	-22	15	(1)	15	(1)	14	
70	7	16	416	417	1437	156.8	7.3	-9	11	(4)	11	(4)	15	
70	7	16	734	418	1436	107.0	8.8	-23	14	(3)	14	(3)	16	
70	7	16	913	418	1435	82.1	8.8	-8	11	(5)	11	(5)	17	
70	7	16	1052	419	1434	57.1	9.0	-16	5	(3)	5	(3)	18	
70	7	16	1231	419	1434	32.2	9.5	-25	12	(1)	12	(1)	19	
70	7	16	1410	419	1433	7.3	11.3	-1	4	(1)	4	(1)	20	
70	7	16	1549	420	1433	-17.5	999.9	999	99	(99)	99	(99)	21	NO ELECTROJET
70	7	16	1728	420	1432	-42.4	999.9	999	99	(99)	99	(99)	22	NO ELECTROJET
70	7	16	1906	416	1432	-67.5	999.9	999	99	(99)	99	(99)	23	NO ELECTROJET
70	7	16	2225	421	1431	-117.1	-4.2	13	17	(8)	18	(8)	24	
70	7	17	4	422	1430	-142.0	-2.2	-2	19	(2)	20	(2)	25	
70	7	17	143	422	1430	-166.9	-0.2	-20	25	(1)	26	(1)	26	
70	7	17	323	422	1429	168.1	5.8	-14	17	(3)	18	(3)	27	
70	7	17	640	421	1428	118.2	7.8	0	16	(2)	17	(2)	28	
70	7	17	820	424	1427	93.4	9.0	6	10	(1)	10	(1)	29	
70	7	17	959	424	1427	68.5	999.9	999	99	(99)	99	(99)	30	NO ELECTROJET

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
70	7	17	1138	424	1426	43.6	999.9	999	99	(99)	99	(99)	31	NO ELECTROJET
70	7	17	1317	425	1426	18.7	5.8	-7	20	(3)	21	(3)	32	
70	7	17	1635	426	1425	-31.0	-5.2	8	9	(6)	9	(6)	33	
70	7	17	2132	427	1423	-105.7	999.9	999	99	(99)	99	(99)	34	MISSING OR INCOMPLETE DATA
70	7	18	50	428	1422	-155.5	-0.6	-15	21	(2)	22	(2)	35	
70	7	18	230	428	1421	179.5	2.5	-10	13	(1)	14	(1)	36	
70	7	18	409	429	1421	154.6	7.3	-8	6	(2)	6	(2)	37	
70	7	18	548	429	1420	129.7	8.3	-11	8	(1)	8	(1)	38	
70	7	18	727	430	1420	104.8	10.3	-13	13	(10)	14	(10)	39	
70	7	18	906	430	1419	79.9	8.8	-3	6	(3)	6	(3)	40	
70	7	18	1045	430	1419	55.0	6.8	-19	9	(2)	9	(2)	41	
70	7	18	1403	431	1418	5.2	10.3	0	7	(5)	7	(5)	42	
70	7	18	1721	432	1417	-44.5	-9.0	7	3	(2)	3	(2)	43	
70	7	18	1900	433	1416	-69.4	-12.6	-12	99	(99)	99	(99)	44	MISSING OR INCOMPLETE DATA
70	7	18	2039	434	1416	-94.3	-8.2	-7	12	(2)	13	(2)	45	
70	7	19	137	435	1414	-169.0	0.0	-9	17	(4)	18	(4)	46	
70	7	19	316	435	1413	166.0	5.8	-17	16	(2)	17	(2)	47	
70	7	19	634	437	1412	116.2	8.0	-8	8	(1)	8	(1)	48	
70	7	19	813	437	1412	91.3	9.8	-6	13	(1)	14	(1)	49	
70	7	19	952	437	1411	66.4	8.4	-16	10	(2)	11	(2)	50	
70	7	19	1131	438	1411	41.5	999.9	999	99	(99)	99	(99)	51	ELECTROJET TOO BROAD TO CAL.
70	7	19	1449	439	1410	-8.2	9.2	-3	19	(4)	21	(4)	52	
70	7	19	1628	439	1409	-33.1	999.9	999	99	(99)	99	(99)	53	ELECTROJET NOT DISTINCT
70	7	19	1806	432	1409	-58.3	999.9	999	99	(99)	99	(99)	54	MISSING OR INCOMPLETE DATA
70	7	20	402	443	1405	152.5	7.8	-19	14	(4)	15	(4)	55	
70	7	20	541	444	1405	127.6	8.3	-19	17	(2)	19	(2)	56	
70	7	20	720	445	1404	102.7	9.3	-18	13	(9)	14	(10)	57	
70	7	20	859	445	1404	77.8	9.8	-1	2	(1)	2	(1)	58	
70	7	20	1038	446	1403	52.9	999.9	999	99	(99)	99	(99)	59	MISSING OR INCOMPLETE DATA
70	7	20	1217	446	1403	28.0	9.8	-15	17	(4)	19	(4)	60	
70	7	20	1356	447	1402	3.1	10.4	1	14	(3)	16	(3)	61	
70	7	20	1714	448	1401	-46.6	999.9	999	99	(99)	99	(99)	62	
70	7	20	1853	444	1400	-71.7	-12.2	-3	99	(99)	99	(99)	63	MISSING OR INCOMPLETE DATA
70	7	20	2032	449	1400	-96.4	-7.7	-8	22	(4)	25	(4)	64	
70	7	21	129	451	1358	-171.1	0.0	-10	11	(3)	12	(3)	65	
70	7	21	308	452	1358	163.9	6.3	-22	14	(4)	16	(4)	66	
70	7	21	448	452	1357	139.0	7.8	-21	11	(2)	12	(2)	67	
70	7	21	627	453	1357	114.1	8.8	-18	17	(1)	19	(1)	68	
70	7	21	945	454	1356	64.3	999.9	999	99	(99)	99	(99)	69	NO ELECTROJET
70	7	21	1302	445	1355	14.2	10.8	-27	5	(3)	5	(3)	70	
70	7	21	1621	456	1353	-35.2	-12.2	-12	11	(4)	12	(4)	71	
70	7	21	1800	457	1353	-60.1	-12.8	-50	25	(10)	29	(11)	72	
70	7	21	2118	458	1352	-109.9	-5.3	-19	19	(5)	22	(5)	73	
70	7	22	36	460	1351	-159.7	-0.8	-34	15	(2)	17	(2)	74	
70	7	22	215	460	1350	175.3	2.8	-23	11	(2)	13	(2)	75	
70	7	22	354	461	1350	150.4	8.0	-22	5	(1)	5	(1)	76	
70	7	22	533	462	1349	125.5	8.0	-36	15	(1)	17	(1)	77	
70	7	22	713	462	1349	100.6	9.8	-31	13	(8)	15	(9)	78	
70	7	22	1031	463	1348	50.8	999.9	999	99	(99)	99	(99)	79	NO ELECTROJET
70	7	22	1210	464	1347	25.9	9.0	-24	9	(3)	10	(3)	80	
70	7	22	1528	465	1346	-23.8	4.5	-15	8	(3)	9	(3)	81	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP.	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
70	7	22	1707	466	1345	-48.7	-9.2	-29	12	(4)	14	(4)	82	
70	7	22	2025	468	1344	-98.5	-7.2	-35	17	(5)	20	(6)	83	
70	7	22	2204	468	1344	-123.4	-3.0	-22	13	(2)	15	(2)	84	
70	7	23	122	470	1343	-173.2	0.4	-34	9	(1)	11	(1)	85	
70	7	23	1256	474	1339	12.4	11.0	-18	6	(3)	7	(3)	86	
70	7	23	1614	476	1338	-37.3	-3.0	-18	21	(7)	26	(8)	87	
70	7	23	1752	469	1337	-62.4	-13.2	-50	99	(99)	99	(99)	88	AMP. TOO BROAD TO CALCULATE
70	7	24	208	480	1335	173.2	4.0	-36	9	(2)	11	(2)	89	
70	7	24	347	481	1334	148.3	7.0	-65	10	(1)	12	(1)	90	
70	7	24	526	482	1334	123.4	8.9	-57	12	(3)	15	(3)	91	
70	7	24	705	483	1333	98.5	9.6	-63	18	(6)	22	(7)	92	
70	7	24	844	483	1332	73.6	9.0	-23	4	(1)	5	(1)	93	
70	7	24	1202	485	1331	23.8	10.6	-37	17	(10)	21	(12)	94	
70	7	24	1341	485	1331	-1.0	10.2	-26	14	(8)	17	(10)	95	
70	7	24	1520	486	1330	-25.9	3.6	-20	6	(3)	7	(3)	96	
70	7	24	1700	487	1330	-50.8	999.9	999	99	(99)	99	(99)	97	NO ELECTROJET
70	7	24	2018	489	1329	-100.6	999.9	999	99	(99)	99	(99)	98	MISSING OR INCOMPLETE DATA
70	7	24	2336	490	1328	-150.4	-0.8	-12	12	(3)	15	(3)	99	
70	7	25	115	491	1327	-175.3	0.4	-13	12	(1)	15	(1)	100	
70	7	25	254	492	1327	159.7	7.6	-66	7	(3)	9	(3)	101	
70	7	25	1248	496	1323	10.3	999.9	999	99	(99)	99	(99)	102	ELECTROJET TOO BROAD TO CAL.
70	7	25	1427	497	1323	-14.5	10.0	-67	10	(7)	13	(9)	103	
70	7	25	1606	498	1322	-39.4	-5.5	-66	11	(3)	14	(3)	104	
70	7	25	1745	492	1322	-64.4	-13.4	-88	99	(99)	99	(99)	105	AMP. TOO BROAD TO CALCULATE
70	7	25	2103	501	1321	-114.1	999.9	999	99	(99)	99	(99)	106	
70	7	26	201	503	1319	171.2	4.7	-123	22	(3)	29	(4)	3	
70	7	26	340	504	1319	146.3	7.6	-92	15	(3)	20	(4)	4	
70	7	26	519	505	1318	121.4	8.0	-65	17	(5)	22	(6)	5	
70	7	26	658	505	1317	96.5	9.4	-110	99	(99)	99	(99)	6	AMP. TOO BROAD TO CALCULATE
70	7	26	837	506	1317	71.6	9.2	-81	7	(5)	9	(6)	7	
70	7	26	1016	507	1317	46.7	999.9	999	99	(99)	99	(99)	8	MISSING OR INCOMPLETE DATA
70	7	26	1155	508	1316	21.8	8.3	-87	14	(5)	19	(6)	9	
70	7	26	1513	509	1315	-27.9	-8.2	-46	3	(2)	4	(2)	10	
70	7	26	1652	510	1314	-52.8	-11.2	-54	20	(7)	27	(9)	11	
70	7	26	2010	512	1313	-102.6	-6.4	-46	23	(7)	31	(9)	12	
70	7	26	2149	513	1313	-127.5	-3.7	-55	25	(5)	34	(6)	13	
70	7	26	2328	514	1312	-152.4	-1.7	-39	11	(3)	15	(4)	14	
70	7	27	107	515	1312	-177.3	1.8	-40	15	(6)	20	(8)	15	
70	7	27	246	516	1311	157.7	6.8	-47	16	(5)	22	(6)	16	
70	7	27	425	516	1311	132.8	8.6	-64	99	(99)	99	(99)	17	AMP. TOO BROAD TO CALCULATE
70	7	27	744	518	1309	83.0	8.8	-43	12	(3)	16	(4)	18	
70	7	27	923	519	1309	58.1	7.8	-57	24	(2)	33	(2)	19	
70	7	27	1102	520	1308	33.2	8.8	-60	99	(99)	99	(99)	20	AMP. TOO BROAD TO CALCULATE
70	7	27	1241	520	1308	8.3	10.8	-39	7	(2)	9	(2)	21	
70	7	27	1559	522	1307	-41.4	-11.0	-42	6	(4)	8	(5)	22	
70	7	27	1738	523	1306	-66.3	-12.2	-50	12	(10)	17	(14)	23	
70	7	27	1917	524	1306	-91.2	-9.2	-60	99	(99)	99	(99)	24	AMP. TOO BROAD TO CALCULATE
70	7	27	2056	525	1305	-116.1	-5.2	-27	12	(8)	17	(11)	25	
70	7	27	2235	526	1305	-141.0	-2.8	-44	20	(5)	28	(7)	26	
70	7	28	14	527	1304	-165.9	-0.2	-57	25	(5)	35	(7)	27	
70	7	28	153	528	1304	169.1	4.8	-50	22	(5)	31	(7)	28	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
70	7	28	511	530	1303	119.3	8.3	-39	10	(1)	14	(1)	29	
70	7	28	650	530	1302	94.4	10.8	-35	8	(6)	11	(8)	30	
70	7	28	829	531	1301	69.5	999.9	999	99	(99)	99	(99)	31	ELECTROJET TOO BROAD TO CAL.
70	7	28	1008	532	1301	44.6	999.9	999	99	(99)	99	(99)	32	ELECTROJET TOO BROAD TO CAL.
70	7	28	1147	533	1300	19.8	5.8	-24	12	(4)	17	(5)	33	
70	7	28	1326	534	1300	-5.0	10.8	-8	5	(3)	7	(4)	34	
70	7	28	1644	536	1259	-54.8	-11.8	-27	12	(3)	17	(4)	35	
70	7	28	1824	537	1258	-79.7	-12.2	-33	99	(99)	99	(99)	36	AMP. TOO BROAD TO CALCULATE
70	7	28	2003	538	1258	-104.6	-6.0	-30	22	(15)	32	(22)	37	
70	7	28	2321	540	1257	-154.5	-2.2	-20	4	(2)	5	(2)	38	
70	7	28	2321	540	9999	-154.4	999.9	999	99	(99)	99	(99)	39	MISSING OR INCOMPLETE DATA

APPENDIX B

Tabulation of OGO-4 and 6 data in longitude order. The columns are as in Appendix A.

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	1	17	133	675	1324	-179.8	2.5	-20	4	(1)	8	(2)	64	
67	9	5	246	439	1449	-179.7	999.9	999	99	(99)	99	(99)	96	MISSING OR INCOMPLETE DATA
68	10	3	2343	648	1156	-179.7	3.0	-33	5	(2)	9	(3)	288	
68	2	11	2259	421	1046	-179.6	2.5	-77	11	(1)	11	(1)	79	
69	10	10	247	525	1503	-179.6	3.2	-11	3	(1)	4	(1)	117	
68	2	21	2159	449	947	-179.4	2.5	-45	24	(1)	27	(1)	20	
69	7	30	4	411	1200	-179.3	1.5	-23	35	(4)	36	(4)	28	
67	9	2	300	459	1505	-178.9	2.5	-48	20	(3)	23	(3)	64	
69	7	22	104	415	1302	-178.9	2.2	-12	24	(1)	25	(1)	78	
69	7	14	202	478	1404	-178.2	2.5	-26	13	(2)	16	(2)	28	
69	10	23	101	727	1325	-178.2	3.6	-6	3	(2)	6	(4)	76	
70	7	16	236	417	1437	-178.2	2.0	-22	15	(1)	15	(1)	14	
69	10	5	319	467	1540	-177.8	2.0	-23	8	(0)	9	(0)	54	
70	7	27	107	515	1312	-177.3	1.8	-40	15	(6)	20	(8)	15	
68	2	14	2232	422	1028	-177.2	2.0	-5	21	(4)	22	(4)	107	
69	10	18	134	643	1403	-176.9	999.9	999	99	(99)	99	(99)	17	ELECTROJET TOO BROAD TO CAL.
68	2	4	2329	449	1128	-176.7	2.0	-52	26	(3)	30	(3)	57	
68	1	23	45	589	1247	-176.6	2.0	-14	2	(1)	3	(1)	131	
69	8	1	2329	424	1138	-176.3	1.9	-16	20	(1)	21	(1)	65	
69	8	9	2228	494	1037	-176.3	2.3	-14	14	(4)	18	(5)	168	
67	10	6	2321	640	1151	-175.7	2.0	-23	6	(1)	11	(1)	264	
67	10	9	2303	680	1134	-175.7	1.0	-70	9	(2)	18	(4)	300	
67	10	12	2245	721	1117	-175.7	1.8	-30	8	(3)	18	(6)	333	
67	10	3	2338	600	1208	-175.6	0.5	-24	7	(4)	12	(6)	230	
69	10	13	207	566	1440	-175.5	999.9	999	99	(99)	99	(99)	154	ELECTROJET TOO BROAD TO CAL.
67	9	30	2355	560	1225	-175.4	1.5	-58	9	(1)	14	(1)	199	
69	7	17	128	447	1341	-175.3	1.8	-17	13	(1)	14	(1)	15	
70	7	25	115	491	1327	-175.3	0.4	-13	12	(1)	15	(1)	100	
67	9	25	29	490	1258	-175.0	1.0	-35	10	(1)	12	(1)	130	
68	9	17	105	462	1331	-174.9	1.0	-34	17	(2)	20	(2)	93	
68	9	13	128	437	1353	-174.8	1.5	-58	19	(2)	21	(2)	51	
67	9	22	45	470	1315	-174.6	1.0	-76	0	(2)	0	(2)	96	
68	9	25	16	539	1246	-174.6	1.0	-27	11	(2)	16	(2)	179	
69	7	9	225	544	1443	-174.4	0.8	-24	11	(1)	16	(1)	25	
67	9	19	101	450	1332	-174.2	0.0	-53	7	(1)	8	(1)	65	
68	9	28	2351	586	1224	-174.2	1.0	-10	9	(2)	15	(3)	222	
68	2	27	2102	499	913	-174.0	0.5	-12	16	(3)	21	(3)	86	
69	10	8	240	500	1518	-173.9	0.5	-17	9	(3)	12	(4)	93	
69	10	26	20	778	1302	-173.9	1.6	-1	2	(0)	5	(0)	114	
68	10	2	2325	635	1201	-173.7	1.0	-70	12	(2)	22	(3)	275	
67	9	13	133	420	1405	-173.3	0.4	10	12	(7)	12	(7)	3	
69	8	4	2253	445	1115	-173.2	0.8	-18	7	(6)	7	(6)	107	
70	7	23	122	470	1343	-173.2	0.4	-34	9	(1)	11	(1)	85	
68	1	28	2356	513	1210	-173.1	0.7	-61	13	(1)	17	(1)	194	
68	10	6	2258	684	1138	-173.1	1.0	-17	11	(1)	23	(2)	322	
69	8	12	2151	531	1014	-173.0	1.3	-10	11	(3)	15	(4)	210	
67	9	10	148	423	1421	-172.7	-0.2	-36	12	(4)	12	(4)	26	
69	10	21	54	693	1340	-172.7	0.6	-3	2	(0)	4	(0)	53	
68	10	10	2232	731	1116	-172.4	1.0	-6	4	(1)	9	(2)	366	
69	7	20	53	423	1318	-172.4	0.6	-3	14	(1)	15	(1)	55	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	2	10	2236	423	1052	-172.2	0.5	-120	43	(8)	46	(8)	68	
68	2	20	2136	443	953	-172.1	0.5	-63	25	(1)	28	(1)	10	
69	10	3	311	449	1555	-172.1	0.6	-65	13	(3)	15	(3)	27	
69	7	12	152	502	1420	-171.7	0.0	-26	13	(2)	17	(2)	4	
69	10	16	128	611	1418	-171.4	-0.4	-1	3	(1)	5	(1)	188	
68	3	1	2033	531	856	-171.2	0.5	-44	17	(3)	24	(4)	118	
70	7	21	129	451	1358	-171.1	0.0	-10	11	(3)	12	(3)	65	
67	9	1	232	467	1511	-170.5	0.5	-45	21	(2)	25	(2)	51	
69	10	11	200	538	1455	-169.9	-0.4	-32	8	(1)	11	(1)	130	
68	2	13	2208	421	1034	-169.8	0.0	-42	30	(3)	31	(3)	97	
68	2	23	2108	463	936	-169.5	999.9	999	99	(99)	99	(99)	45	NO ELECTROJET
69	7	23	19	411	1255	-169.5	0.3	-12	12	(1)	12	(1)	89	
70	7	19	137	435	1414	-169.0	0.0	-9	17	(4)	18	(4)	46	
69	7	15	118	467	1357	-168.9	0.0	-22	19	(2)	23	(2)	41	
68	9	16	46	455	1337	-168.8	0.0	-52	18	(3)	21	(3)	79	
68	9	20	22	487	1314	-168.7	-0.5	-27	15	(2)	19	(2)	117	
68	9	23	2358	527	1252	-168.6	-0.5	-35	6	(2)	8	(2)	165	
69	10	24	14	744	1317	-168.5	0.0	-10	5	(1)	11	(2)	90	
68	9	27	2333	573	1229	-168.2	0.0	-11	12	(1)	19	(1)	209	
69	10	6	232	477	1533	-168.2	-0.8	-33	8	(1)	10	(1)	65	
68	2	16	2138	426	1016	-168.1	4.7	-32	13	(4)	14	(4)	125	
68	10	1	2307	622	1207	-167.8	0.0	-31	10	(1)	18	(1)	260	
67	10	8	2236	666	1140	-167.5	-1.0	-16	7	(1)	14	(2)	287	
67	10	11	2219	707	1123	-167.5	-0.5	-22	7	(1)	15	(2)	319	
68	1	24	2356	563	1235	-167.3	-0.8	-22	10	(1)	15	(1)	148	
68	2	16	2141	426	1017	-167.3	-0.2	-30	23	(4)	24	(4)	124	
69	10	19	47	652	1355	-167.3	999.9	999	99	(99)	99	(99)	30	NO ELECTROJET
67	9	29	2328	550	1230	-167.2	-0.5	-102	12	(1)	18	(1)	186	
67	9	26	2345	510	1247	-166.9	0.0	-46	9	(1)	12	(1)	153	
69	8	2	2244	430	1130	-166.9	-0.2	13	16	(3)	17	(3)	78	
70	7	17	143	422	1430	-166.9	-0.2	-20	25	(1)	26	(1)	26	
69	8	10	2142	506	1030	-166.8	-0.2	-13	17	(1)	23	(1)	182	
67	9	24	2	480	1304	-166.7	0.0	-43	21	(1)	26	(1)	121	
68	2	26	2039	489	919	-166.7	-0.5	-22	19	(5)	24	(6)	72	
67	9	21	18	460	1321	-166.4	-1.0	-70	9	(3)	10	(3)	84	
69	10	1	304	434	1610	-166.4	-1.4	-58	5	(3)	5	(3)	3	
67	9	18	34	440	1337	-165.9	-1.0	0	13	(4)	14	(4)	55	
70	7	28	14	527	1304	-165.9	-0.2	-57	25	(5)	35	(7)	27	
69	10	14	121	580	1433	-165.8	0.4	-1	3	(1)	4	(1)	167	
68	1	27	2332	525	1216	-165.6	-1.0	-37	11	(4)	15	(5)	180	
67	9	15	50	430	1354	-165.4	-0.5	-57	28	(2)	30	(2)	28	
67	9	12	105	422	1410	-164.9	-0.5	-6	14	(3)	14	(3)	45	
68	2	9	2212	425	1058	-164.8	-0.5	-72	25	(2)	26	(2)	56	
68	2	19	2113	437	959	-164.8	-0.5	-39	26	(3)	29	(3)	159	
70	7	15	150	412	1445	-164.7	-0.3	-20	16	(2)	16	(2)	4	
68	1	15	44	705	1336	-164.5	-0.5	-37	2	(1)	4	(2)	37	
67	9	9	121	425	1427	-164.3	-1.0	-36	16	(5)	17	(5)	13	
69	10	9	153	511	1511	-164.2	-0.8	-16	7	(1)	9	(1)	104	
69	10	26	2333	795	1255	-164.1	999.9	999	99	(99)	99	(99)	126	ELECTROJET TOO BROAD TO CAL.
68	2	29	2011	519	902	-164.0	-0.5	-45	17	(2)	23	(2)	105	
69	8	5	2209	453	1108	-163.8	-0.7	-28	26	(5)	30	(5)	121	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
67	9	6	135	435	1443	-163.6	-1.0	-31	20	(6)	22	(6)	106	
69	7	29	2309	408	1208	-163.6	-0.3	-25	17	(1)	17	(1)	15	
69	8	13	2106	545	1007	-163.6	0.0	-15	9	(1)	13	(1)	221	
68	1	18	20	662	1318	-163.0	-1.0	-34	6	(1)	11	(1)	77	
69	10	22	8	709	1333	-163.0	-1.4	-7	6	(1)	13	(2)	65	
68	9	11	51	428	1404	-162.6	-0.8	-44	26	(3)	28	(3)	31	
68	9	22	2340	516	1257	-162.5	-1.0	-24	10	(2)	13	(2)	152	
69	10	4	225	457	1548	-162.5	-1.0	-44	12	(1)	14	(1)	39	
69	7	13	107	490	1412	-162.4	-1.2	-2	7	(1)	9	(1)	14	
68	2	22	2045	456	942	-162.2	-1.0	-21	20	(3)	23	(3)	32	
68	9	26	2315	561	1235	-162.2	-0.5	-11	10	(2)	15	(3)	201	
68	9	30	2249	610	1213	-161.8	-1.0	-14	6	(1)	10	(1)	251	
68	2	2	2241	464	1140	-161.7	-1.0	-78	36	(1)	43	(1)	40	
68	1	20	2356	618	1300	-161.4	-1.8	-18	5	(2)	9	(3)	107	
68	10	4	2223	659	1150	-161.2	-0.5	-22	3	(1)	5	(1)	301	
69	8	8	2133	482	1045	-160.6	-0.7	-9	16	(1)	20	(1)	154	
68	10	8	2157	708	1128	-160.5	-0.5	-28	10	(2)	22	(4)	344	
69	7	23	2334	409	1247	-160.2	-1.2	-15	11	(1)	11	(1)	94	
69	10	12	114	551	1448	-160.2	999.9	999	99	(99)	99	(99)	143	NO ELECTROJET
68	1	23	2332	576	1241	-159.7	-0.8	-13	10	(1)	16	(1)	141	
70	7	22	36	460	1351	-159.7	-0.8	-34	15	(2)	17	(2)	74	
68	2	5	2215	443	1122	-159.6	0.8	-47	20	(1)	22	(1)	15	
69	7	16	33	457	1349	-159.6	-1.2	-9	12	(2)	14	(2)	3	
67	10	10	2152	693	1129	-159.4	-1.0	-74	10	(3)	21	(6)	310	
67	10	7	2209	650	1146	-159.3	-0.8	-24	10	(1)	19	(1)	273	
67	10	13	2134	734	1112	-159.3	-1.6	-32	6	(2)	14	(4)	345	
67	10	1	2244	570	1219	-159.1	-1.5	-33	5	(1)	8	(1)	211	
67	9	25	2318	500	1253	-158.7	-1.5	-40	15	(2)	20	(2)	140	
69	10	24	2327	760	1310	-158.7	999.9	999	99	(99)	99	(99)	103	ELECTROJET TOO BROAD TO CAL.
69	10	7	146	488	1526	-158.5	-1.2	-36	9	(2)	11	(2)	79	
67	9	22	2335	470	1309	-158.4	-1.8	-44	9	(3)	11	(3)	108	
67	9	17	7	430	1342	-157.6	-1.5	-24	16	(5)	17	(5)	44	
68	2	18	2050	433	1005	-157.5	-1.3	-20	13	(1)	14	(1)	145	
69	8	3	2159	437	1123	-157.5	-1.0	-23	12	(1)	13	(1)	92	
69	10	20	1	675	1346	-157.5	999.9	999	99	(99)	99	(99)	40	MISSING OR INCOMPLETE DATA
68	2	8	2149	429	1104	-157.4	-1.0	-59	18	(2)	19	(2)	42	
69	8	11	2057	518	1022	-157.4	-1.3	8	15	(2)	20	(2)	195	
69	7	26	2300	406	1224	-157.2	-0.7	-22	14	(4)	14	(4)	127	
67	9	14	22	430	1359	-157.1	-2.0	-42	7	(3)	7	(3)	16	
68	1	14	19	719	1343	-156.8	-1.0	-57	6	(3)	13	(6)	26	
69	7	18	2358	432	1326	-156.7	-0.7	-3	10	(2)	11	(2)	40	
69	10	2	218	441	1603	-156.7	-1.6	-60	10	(3)	11	(3)	15	
68	9	14	9	442	1348	-156.6	-1.8	-45	8	(3)	9	(3)	62	
67	9	11	38	422	1416	-156.5	999.9	999	99	(99)	99	(99)	37	NO ELECTROJET
68	9	10	32	424	1410	-156.4	-1.5	-46	15	(3)	16	(3)	17	
68	1	29	2242	502	1204	-156.2	-1.0	-59	17	(1)	22	(1)	206	
68	9	25	2257	549	1241	-156.2	-2.5	-12	5	(2)	7	(3)	189	
69	10	15	35	595	1426	-156.1	999.9	999	99	(99)	99	(99)	178	ELECTROJET TOO BROAD TO CAL.
69	7	11	57	516	1428	-155.9	999.9	999	99	(99)	99	(99)	52	ELECTROJET TOO BROAD TO CAL.
68	9	29	2231	597	1218	-155.8	-1.0	12	4	(1)	6	(1)	236	
70	7	18	50	428	1422	-155.5	-0.6	-15	21	(2)	22	(2)	35	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	1	16	2355	676	1324	-155.3	-1.5	-21	3	(1)	6	(2)	63	
68	10	3	2205	647	1156	-155.3	-1.0	-36	5	(1)	9	(1)	287	
67	9	5	108	440	1449	-155.1	-3.5	-21	2	(1)	2	(1)	95	
68	2	11	2122	421	1046	-155.1	-1.0	-101	26	(5)	27	(5)	78	
68	2	21	2022	449	948	-154.9	-1.5	-48	18	(5)	20	(5)	19	
68	10	7	2139	696	1133	-154.6	-0.5	-29	9	(3)	19	(6)	332	
69	10	10	107	524	1503	-154.5	-1.0	10	3	(1)	4	(1)	116	
70	7	28	2321	540	1257	-154.5	-2.2	-20	4	(2)	5	(2)	38	
67	9	2	122	459	1506	-154.4	-2.0	-40	10	(3)	11	(3)	63	
70	7	28	2321	540	9999	-154.4	999.9	999	99	(99)	99	(99)	39	MISSING OR INCOMPLETE DATA
69	7	29	2225	411	1201	-154.3	-1.3	-4	19	(2)	19	(2)	27	
69	10	27	2247	811	1247	-154.3	999.9	999	99	(99)	99	(99)	138	ELECTROJET TOO BROAD TO CAL.
68	2	1	2217	473	1146	-154.2	-1.5	-42	28	(1)	34	(1)	27	
68	1	19	2331	633	1306	-153.8	-1.5	-41	8	(1)	14	(1)	95	
69	7	21	2324	415	1303	-153.8	-1.1	-25	22	(3)	23	(3)	77	
69	7	14	23	478	1405	-153.1	-1.2	-21	5	(1)	6	(1)	27	
69	10	5	139	467	1540	-152.8	-1.8	-29	10	(3)	12	(3)	53	
68	2	14	2054	421	1029	-152.7	-1.2	-13	27	(1)	28	(1)	106	
70	7	26	2328	514	1312	-152.4	-1.7	-39	11	(3)	15	(4)	14	
68	2	4	2151	449	1128	-152.2	-1.7	-32	11	(1)	12	(1)	56	
68	2	24	1953	471	931	-152.2	-1.0	-7	11	(4)	13	(4)	53	
68	1	22	2307	590	1247	-152.1	-1.6	-10	10	(1)	16	(1)	130	
69	10	17	2355	642	1403	-151.9	999.9	999	99	(99)	99	(99)	16	ELECTROJET TOO BROAD TO CAL.
67	10	9	2125	679	1135	-151.2	-2.0	-56	8	(3)	16	(6)	299	
67	10	12	2107	720	1118	-151.2	-1.3	-28	8	(2)	18	(4)	332	
69	8	1	2149	424	1138	-151.2	-1.5	-1	5	(3)	5	(3)	64	
69	8	9	2048	493	1038	-151.2	-1.7	-3	10	(1)	13	(1)	167	
67	10	3	2200	600	1208	-151.0	-2.0	-23	2	(1)	3	(1)	229	
67	9	30	2217	560	1225	-150.9	-2.5	-41	5	(2)	7	(3)	198	
69	7	24	2250	407	1240	-150.9	-1.2	2	19	(2)	19	(2)	106	
67	9	27	2234	520	1242	-150.7	-1.5	-1	6	(2)	8	(2)	163	
68	9	16	2327	461	1331	-150.5	-2.0	-31	17	(4)	20	(4)	92	
69	10	13	28	563	1441	-150.5	-2.0	-7	3	(1)	4	(1)	153	
67	9	24	2251	490	1258	-150.4	-2.0	-37	11	(2)	14	(2)	129	
68	1	25	2243	550	1229	-150.4	-1.8	-1	6	(2)	9	(3)	160	
68	9	12	2351	436	1353	-150.4	-1.8	-61	24	(4)	26	(4)	50	
68	9	20	2303	496	1309	-150.4	-1.5	-11	99	(99)	99	(99)	129	AMP. TOO BROAD TO CALCULATE
70	7	24	2336	490	1328	-150.4	-0.8	-12	12	(3)	15	(3)	99	
69	7	16	2348	448	1341	-150.3	-1.2	0	8	(1)	9	(1)	14	
68	2	17	2027	429	1011	-150.2	-1.4	-21	18	(3)	19	(3)	133	
68	9	24	2239	538	1246	-150.2	-0.9	-25	6	(2)	8	(2)	178	
67	9	21	2307	470	1315	-150.1	-2.0	-92	0	(2)	0	(2)	95	
68	2	7	2125	433	1110	-150.0	-2.0	11	11	(1)	12	(1)	33	
68	9	28	2213	585	1224	-149.8	-1.0	7	4	(2)	6	(3)	221	
67	9	18	2324	440	1332	-149.7	-2.0	-66	19	(3)	21	(3)	64	
68	2	27	1925	498	913	-149.5	-2.0	-25	22	(4)	29	(5)	85	
69	7	9	46	545	1444	-149.4	-2.2	-17	16	(1)	24	(1)	24	
68	10	2	2148	634	1202	-149.3	-1.5	-62	15	(1)	28	(1)	274	
67	9	15	2339	430	1348	-149.2	-2.5	-30	9	(3)	9	(3)	36	
68	1	12	2354	734	1350	-149.1	-2.0	-40	3	(1)	7	(2)	15	
69	10	8	100	499	1518	-148.9	-2.2	-18	6	(2)	7	(2)	92	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	10	25	2241	777	1303	-148.9	-0.4	-4	2	(1)	5	(2)	113	
67	9	12	2355	423	1405	-148.7	-2.0	8	2	(1)	2	(1)	53	
68	1	28	2218	514	1211	-148.6	-1.8	-27	7	(1)	9	(1)	193	
67	9	10	10	423	1422	-148.1	-3.0	-35	3	(2)	3	(2)	25	
69	8	4	2114	444	1115	-148.1	-1.7	-9	3	(2)	3	(2)	106	
68	10	10	2054	730	1117	-148.0	-0.5	-5	3	(1)	6	(2)	365	
67	9	7	25	431	1438	-147.4	-2.0	-13	10	(2)	10	(2)	116	
69	7	19	2314	426	1318	-147.4	-1.2	2	12	(1)	12	(1)	54	
69	10	3	132	448	1555	-147.1	-2.0	-53	13	(2)	14	(2)	26	
68	1	31	2153	482	1152	-146.7	-2.5	-23	18	(1)	22	(1)	18	
68	3	1	1856	530	856	-146.7	-1.3	-36	8	(3)	11	(4)	117	
69	7	12	12	503	1420	-146.6	-2.2	-14	8	(2)	10	(2)	3	
69	10	15	2348	610	1418	-146.4	-1.8	-2	7	(1)	12	(1)	187	
67	9	1	54	468	1511	-145.9	-2.0	-23	13	(3)	15	(3)	50	
68	2	23	1930	463	936	-145.0	999.9	999	99	(99)	99	(99)	44	NO ELECTROJET
69	8	7	2039	471	1053	-145.0	-1.7	-3	6	(2)	7	(2)	140	
69	7	30	2140	414	1154	-144.9	-2.0	-18	12	(3)	12	(3)	40	
69	10	11	21	537	1456	-144.9	-2.2	-25	7	(1)	10	(1)	129	
68	2	3	2127	456	1134	-144.7	-2.4	-54	26	(1)	30	(1)	47	
69	7	22	2240	412	1255	-144.5	-2.0	-8	16	(2)	16	(2)	88	
68	9	19	2245	486	1314	-144.3	-3.0	-20	16	(2)	20	(2)	116	
68	9	23	2220	526	1252	-144.2	-2.5	-31	8	(1)	11	(1)	164	
68	9	27	2155	572	1230	-143.8	999.9	999	99	(99)	99	(99)	208	MISSING OR INCOMPLETE DATA
69	7	14	2338	468	1357	-143.8	-2.9	-16	18	(1)	21	(1)	40	
69	10	23	2234	742	1318	-143.5	-2.4	-5	2	(0)	4	(0)	89	
68	10	1	2130	621	1207	-143.4	-2.0	-32	8	(1)	14	(1)	259	
69	10	6	53	476	1533	-143.2	-2.0	-16	8	(2)	9	(2)	64	
67	10	8	2059	665	1140	-143.0	-2.5	-15	6	(1)	12	(2)	286	
67	10	11	2041	706	1124	-143.0	-3.0	-34	9	(4)	19	(8)	318	
67	10	5	2116	620	1157	-142.9	-2.8	-26	8	(1)	14	(1)	253	
67	9	29	2151	550	1231	-142.6	-2.5	-88	5	(1)	7	(1)	185	
67	9	26	2207	510	1247	-142.4	-2.5	-41	7	(2)	9	(2)	152	
69	10	18	2307	641	1356	-142.4	999.9	999	99	(99)	99	(99)	29	NO ELECTROJET
68	2	26	1902	488	919	-142.3	-2.5	-6	16	(4)	20	(5)	71	
68	10	9	2037	719	1122	-142.1	-2.0	-16	6	(1)	13	(2)	356	
70	7	17	4	422	1430	-142.0	-2.2	-2	19	(2)	20	(2)	25	
69	8	2	2105	429	1131	-141.9	-1.7	14	11	(3)	11	(3)	77	
69	8	10	2003	505	1030	-141.8	-2.2	-6	13	(3)	17	(4)	181	
69	7	25	2205	406	1232	-141.5	-2.2	7	11	(3)	11	(3)	117	
67	9	17	2256	440	1337	-141.4	-3.0	-5	15	(2)	16	(2)	54	
68	1	27	2154	526	1217	-141.1	-2.8	-40	12	(1)	17	(1)	179	
69	7	17	2303	440	1334	-141.0	-2.2	-11	15	(2)	16	(2)	26	
70	7	27	2235	526	1305	-141.0	-2.8	-44	20	(5)	28	(7)	26	
67	9	14	2312	430	1354	-140.9	-3.0	-35	12	(3)	13	(3)	27	
69	10	13	2341	579	1433	-140.8	-2.8	-10	8	(0)	13	(0)	166	
67	9	11	2327	422	1410	-140.3	-3.5	-7	8	(3)	8	(3)	44	
68	2	9	2035	425	1058	-140.3	-2.2	-55	19	(2)	20	(2)	55	
68	2	19	1936	437	1000	-140.3	-2.7	-42	23	(1)	25	(1)	158	
69	7	10	1	531	1436	-140.1	-2.7	-4	5	(1)	7	(1)	38	
70	7	15	11	412	1446	-139.8	-2.2	-25	24	(3)	24	(3)	3	
67	9	8	2343	425	1427	-139.7	999.9	999	99	(99)	99	(99)	12	NO ELECTROJET

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	10	9	14	511	1511	-139.2	-2.8	-12	3	(1)	4	(1)	103	
69	10	26	2154	794	1255	-139.1	999.9	999	99	(99)	99	(99)	125	NO ELECTROJET
67	9	5	2358	435	1443	-139.0	-4.0	-15	7	(2)	7	(2)	105	
69	8	5	2029	452	1108	-138.8	-2.7	-15	15	(3)	17	(3)	120	
69	7	28	2130	408	1209	-138.6	-2.2	-18	16	(2)	16	(2)	14	
67	9	3	12	453	1500	-138.3	999.9	999	99	(99)	99	(99)	76	ELECTROJET TOO BROAD TO CAL.
68	9	10	2314	427	1404	-138.2	-3.0	-33	16	(1)	17	(1)	30	
68	9	22	2202	516	1258	-138.1	-3.0	-52	4	(2)	5	(2)	151	
68	2	12	2008	421	1041	-138.0	-3.5	-47	20	(9)	21	(9)	89	
69	10	21	2228	708	1333	-138.0	999.9	999	99	(99)	99	(99)	64	NO ELECTROJET
68	9	26	2137	560	1235	-137.8	-1.0	-8	8	(2)	12	(3)	200	
68	2	22	1907	455	942	-137.7	-3.0	-22	13	(3)	15	(3)	31	
68	9	30	2112	609	1213	-137.4	-3.5	-10	4	(1)	7	(1)	250	
69	7	12	2328	491	1413	-137.3	999.9	999	99	(99)	99	(99)	13	MISSING OR INCOMPLETE DATA
68	2	2	2104	465	1140	-137.2	-3.0	-95	41	(3)	49	(3)	39	
68	1	20	2218	619	1300	-136.9	-3.5	-23	7	(2)	12	(3)	106	
68	10	4	2046	658	1151	-136.8	-3.0	-28	5	(2)	9	(3)	300	
69	10	16	2302	625	1411	-136.6	999.9	999	99	(99)	99	(99)	200	ELECTROJET TOO BROAD TO CAL.
68	10	8	2019	706	1128	-136.2	-2.5	-23	6	(1)	13	(2)	343	
69	8	8	1953	481	1045	-135.6	-2.7	6	7	(2)	8	(2)	153	
68	2	15	1940	423	1023	-135.5	-3.0	-45	20	(1)	21	(1)	113	
69	7	31	2055	418	1146	-135.5	-2.7	-12	16	(1)	16	(1)	52	
68	1	23	2154	577	1241	-135.2	-2.5	-6	3	(1)	4	(1)	140	
69	10	11	2335	550	1448	-135.2	999.9	999	99	(99)	99	(99)	142	NO ELECTROJET
68	2	5	2038	443	1122	-135.1	-3.5	-43	6	(4)	6	(4)	14	
68	2	25	1839	479	925	-135.0	-3.0	-26	23	(3)	28	(3)	60	
67	10	7	2032	650	1146	-134.8	-3.0	-20	9	(2)	17	(3)	272	
67	10	4	2049	610	1203	-134.7	-2.8	-23	3	(1)	5	(1)	241	
69	7	15	2253	458	1350	-134.5	-3.2	-11	14	(5)	16	(5)	51	
67	9	25	2140	500	1253	-134.1	-3.5	-38	13	(3)	17	(4)	139	
67	9	22	2157	470	1310	-133.8	-3.5	-36	-3	(1)	-3	(1)	107	
69	10	24	2147	759	1310	-133.7	999.9	999	99	(99)	99	(99)	102	NO ELECTROJET
68	1	26	2130	538	1223	-133.5	-2.8	-1	10	(1)	14	(1)	170	
69	10	7	7	487	1526	-133.5	-4.0	-27	8	(1)	10	(1)	78	
68	2	18	1912	432	1006	-133.0	-3.0	-36	21	(1)	23	(1)	144	
68	2	8	2011	429	1105	-132.9	-3.0	-17	4	(1)	4	(1)	41	
67	9	13	2245	430	1359	-132.5	-3.5	-39	3	(1)	3	(1)	15	
69	8	3	2019	436	1123	-132.5	-2.3	-9	10	(5)	11	(5)	91	
68	1	13	2241	720	1344	-132.3	-4.0	-55	7	(1)	15	(2)	25	
68	9	13	2232	441	1348	-132.2	-4.0	-46	11	(3)	12	(3)	61	
69	7	26	2120	406	1225	-132.2	-3.2	10	15	(1)	15	(1)	126	
68	9	21	2144	505	1303	-132.1	-4.0	-11	5	(1)	6	(1)	137	
68	9	9	2255	424	1410	-132.0	999.9	999	99	(99)	99	(99)	16	NO ELECTROJET
68	9	25	2119	548	1241	-131.8	-3.5	-20	9	(1)	13	(1)	188	
69	7	18	2219	433	1326	-131.7	-3.2	-10	14	(4)	15	(4)	39	
69	10	2	38	440	1603	-131.7	-5.3	-55	10	(7)	11	(7)	14	
68	9	29	2054	596	1219	-131.4	999.9	999	99	(99)	99	(99)	235	NO ELECTROJET
69	10	14	2255	594	1426	-131.1	999.9	999	99	(99)	99	(99)	177	ELECTROJET TOO BROAD TO CAL.
68	10	3	2028	646	1156	-130.9	999.9	999	99	(99)	99	(99)	286	MISSING OR INCOMPLETE DATA
69	7	10	2317	517	1429	-130.8	-3.7	-17	6	(2)	8	(2)	51	
67	9	4	2330	440	1449	-130.6	-4.0	-19	5	(2)	5	(2)	94	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	2	11	1944	421	1047	-130.6	-3.5	-101	29	(2)	30	(2)	77	
68	10	7	2002	695	1134	-130.2	-4.0	-24	9	(2)	19	(4)	331	
67	9	1	2344	460	1506	-129.8	-3.5	-65	9	(2)	10	(2)	62	
68	2	1	2040	474	1147	-129.7	-3.3	-36	22	(2)	27	(2)	26	
69	10	9	2328	523	1504	-129.5	-4.8	21	3	(2)	4	(2)	115	
68	1	19	2154	634	1306	-129.3	-3.5	-46	13	(1)	24	(1)	94	
69	7	29	2045	411	1202	-129.2	-3.7	-13	22	(3)	22	(3)	26	
69	7	21	2145	415	1303	-128.8	-4.3	3	6	(1)	6	(1)	76	
68	2	14	1917	421	1029	-128.2	-4.0	-23	27	(2)	28	(2)	105	
69	10	22	2141	725	1326	-128.2	999.9	999	99	(99)	99	(99)	75	NO ELECTROJET
69	7	13	2243	479	1405	-128.1	999.9	999	99	(99)	99	(99)	26	ELECTROJET TOO BROAD TO CAL.
68	2	24	1816	470	931	-127.8	-3.0	-25	18	(5)	22	(6)	52	
69	10	4	2360	466	1541	-127.8	-5.0	-35	7	(3)	8	(3)	52	
68	2	4	2014	450	1129	-127.7	-3.6	-43	15	(1)	17	(1)	55	
70	7	26	2149	513	1313	-127.5	-3.7	-55	25	(5)	34	(6)	13	
69	10	17	2215	641	1404	-126.9	999.9	999	99	(99)	99	(99)	15	ELECTROJET TOO BROAD TO CAL.
67	10	6	2005	640	1152	-126.6	-4.0	-23	7	(1)	13	(1)	263	
67	10	12	1929	719	1118	-126.6	-4.2	-30	4	(2)	9	(4)	331	
67	10	3	2022	600	1209	-126.5	-4.5	-27	2	(2)	3	(3)	228	
69	8	1	2010	423	1139	-126.2	-3.2	-12	12	(7)	12	(7)	63	
69	8	9	1908	492	1038	-126.2	-3.5	-14	18	(3)	23	(3)	166	
67	9	27	2057	520	1242	-126.1	-4.0	-16	5	(2)	7	(2)	162	
68	9	16	2150	461	1331	-126.1	-4.0	-32	8	(1)	9	(1)	91	
68	9	12	2214	436	1353	-126.0	-3.2	-38	7	(3)	7	(3)	49	
68	9	20	2126	494	1309	-126.0	-4.5	-18	6	(1)	7	(1)	128	
68	1	25	2105	551	1229	-125.9	-4.0	-10	7	(2)	10	(3)	159	
68	9	8	2237	421	1416	-125.9	-5.3	-54	5	(2)	5	(2)	8	
67	9	24	2113	490	1259	-125.8	-3.5	-53	21	(2)	27	(2)	128	
68	9	24	2101	537	1247	-125.8	-4.5	-23	3	(1)	4	(1)	177	
69	7	24	2110	407	1240	-125.8	-3.7	-11	28	(5)	28	(5)	105	
68	2	17	1849	428	1012	-125.7	-3.8	-22	8	(2)	8	(2)	132	
69	7	16	2208	449	1342	-125.7	-4.7	-7	10	(5)	11	(5)	13	
67	9	21	2130	470	1315	-125.5	-5.0	-104	0	(2)	0	(2)	94	
68	9	28	2036	584	1225	-125.4	-5.0	-3	3	(2)	4	(3)	220	
67	9	18	2146	440	1332	-125.1	-4.0	-50	10	(3)	11	(3)	63	
68	2	27	1747	497	914	-125.0	-4.0	0	15	(1)	19	(1)	84	
68	10	2	2010	633	1202	-124.9	-4.8	-53	10	(3)	18	(5)	273	
67	9	15	2202	430	1349	-124.7	-4.5	-7	2	(1)	2	(1)	35	
68	1	12	2216	735	1350	-124.6	-4.5	-41	1	(1)	2	(2)	14	
67	9	12	2217	423	1405	-124.1	999.9	999	99	(99)	99	(99)	52	NO ELECTROJET
68	1	28	2041	515	1211	-124.1	-4.0	-28	10	(1)	13	(1)	192	
69	10	25	2101	776	1303	-123.9	999.9	999	99	(99)	99	(99)	112	MISSING OR INCOMPLETE DATA
68	10	10	1917	730	1117	-123.6	-4.0	-5	3	(1)	6	(2)	364	
67	9	9	2232	423	1422	-123.5	999.9	999	99	(99)	99	(99)	24	NO ELECTROJET
70	7	22	2204	468	1344	-123.4	-3.0	-22	13	(2)	15	(2)	84	
68	2	10	1921	423	1053	-123.2	-4.0	-70	16	(2)	17	(2)	67	
68	2	20	1821	442	954	-123.1	-4.8	-60	18	(3)	20	(3)	9	
69	8	4	1934	444	1116	-123.1	-4.2	-16	8	(2)	9	(2)	105	
69	7	19	2134	426	1319	-122.3	-4.2	-16	12	(3)	12	(3)	53	
68	1	31	2015	483	1153	-122.2	-4.0	-21	8	(2)	10	(2)	17	
68	3	1	1718	529	857	-122.2	-4.5	-43	18	(6)	25	(8)	116	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
67	9	3	2302	446	1455	-122.1	-6.0	-29	8	(2)	9	(2)	84	
69	10	2	2352	448	1556	-122.1	-4.9	-57	10	(2)	11	(2)	25	
68	2	23	1753	462	937	-120.5	-4.5	-11	14	(2)	16	(2)	43	
68	2	3	1950	457	1135	-120.2	-4.5	-36	3	(1)	3	(1)	46	
68	1	21	2105	606	1254	-120.0	-4.7	-14	5	(1)	8	(1)	119	
68	9	15	2132	454	1337	-120.0	-4.8	-43	16	(3)	18	(3)	78	
69	8	7	1859	471	1053	-120.0	-4.2	17	10	(4)	12	(4)	139	
68	9	11	2155	428	1359	-119.9	-4.2	-22	15	(4)	16	(4)	40	
68	9	19	2108	486	1315	-119.9	-5.0	-16	7	(1)	8	(1)	115	
69	7	30	2000	414	1154	-119.9	-4.2	-7	21	(3)	21	(3)	39	
68	9	23	2043	526	1252	-119.8	-4.8	-31	6	(3)	8	(4)	163	
69	10	10	2241	536	1454	-119.8	999.9	999	99	(99)	99	(99)	128	MISSING OR INCOMPLETE DATA
68	9	27	2018	572	1230	-119.4	-5.1	-5	3	(1)	4	(1)	207	
69	7	14	2158	468	1358	-118.8	-4.2	-12	12	(4)	14	(4)	39	
67	10	5	1938	620	1158	-118.4	-4.5	-30	10	(3)	18	(5)	252	
67	10	8	1921	664	1141	-118.4	-4.0	-11	10	(1)	20	(2)	285	
67	10	11	1903	706	1124	-118.4	-4.0	-34	10	(1)	22	(2)	317	
68	2	16	1826	425	1018	-118.4	-4.5	-57	34	(1)	36	(1)	123	
68	10	5	1926	670	1145	-118.4	-3.0	-21	3	(2)	6	(4)	312	
69	10	23	2055	741	1318	-118.4	999.9	999	99	(99)	99	(99)	88	NO ELECTROJET
67	10	2	1956	580	1214	-118.3	-4.5	-28	0	(3)	0	(4)	220	
68	1	24	2041	565	1236	-118.3	-4.4	-32	9	(1)	14	(1)	147	
68	2	6	1924	438	1117	-118.1	-5.0	-26	10	(1)	11	(1)	26	
69	10	5	2313	476	1534	-118.1	-4.8	-15	9	(1)	11	(1)	63	
68	2	26	1724	488	920	-117.8	-4.8	-7	15	(2)	19	(2)	70	
68	10	9	1860	718	1123	-117.7	-4.0	-7	1	(1)	2	(2)	355	
67	9	23	2046	480	1304	-117.6	-4.0	-20	10	(3)	12	(3)	120	
67	9	20	2102	460	1321	-117.2	-5.5	-62	18	(1)	21	(1)	83	
70	7	16	2225	421	1431	-117.1	-4.2	13	17	(8)	18	(8)	24	
67	9	17	2118	440	1338	-116.8	-4.0	-7	14	(3)	15	(3)	53	
69	7	25	2024	408	1233	-116.8	-4.7	18	10	(3)	10	(3)	116	
69	8	2	1925	429	1131	-116.8	-4.2	20	14	(4)	15	(4)	76	
69	8	10	1823	504	1031	-116.8	-4.2	-4	15	(5)	20	(6)	180	
68	1	27	2016	527	1217	-116.6	-4.5	-23	10	(1)	14	(1)	178	
67	9	14	2134	430	1354	-116.3	-4.0	-40	4	(2)	4	(2)	26	
70	7	27	2056	525	1305	-116.1	-5.2	-27	12	(8)	17	(11)	25	
68	2	9	1857	426	1059	-115.8	-5.0	-36	14	(1)	15	(1)	54	
68	2	19	1758	437	1000	-115.8	-5.2	-34	24	(4)	26	(4)	157	
69	10	13	2202	578	1434	-115.8	-4.4	-9	5	(3)	8	(4)	165	
67	9	8	2205	425	1427	-115.1	999.9	999	99	(99)	99	(99)	11	NO ELECTROJET
69	7	9	2222	532	1437	-115.1	-4.4	4	3	(1)	4	(1)	37	
67	9	5	2220	435	1444	-114.5	-4.0	-14	12	(6)	13	(6)	104	
69	10	8	2234	510	1511	-114.2	-5.8	-9	4	(1)	5	(1)	102	
70	7	25	2103	501	1321	-114.1	999.9	999	99	(99)	99	(99)	106	
68	1	17	2105	664	1319	-114.0	-4.5	-29	11	(2)	22	(4)	75	
68	9	10	2137	427	1405	-113.8	-5.8	-34	21	(2)	22	(2)	29	
67	9	2	2234	453	1501	-113.7	999.9	999	99	(99)	99	(99)	75	ELECTROJET TOO BROAD TO CAL.
68	9	22	2025	515	1258	-113.7	-5.0	-16	9	(3)	12	(4)	150	
69	8	5	1850	452	1109	-113.7	-4.7	-16	19	(5)	22	(5)	119	
68	2	12	1830	421	1041	-113.5	-5.5	-50	25	(3)	26	(3)	88	
69	7	28	1950	408	1209	-113.5	-5.0	-32	25	(2)	25	(2)	13	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	8	13	1747	543	1008	-113.5	-4.0	3	9	(7)	13	(10)	219	
68	9	26	1960	551	1236	-113.4	-5.2	1	6	(1)	9	(1)	199	
68	2	22	1730	455	943	-113.2	999.9	999	99	(99)	99	(99)	30	MISSING OR INCOMPLETE DATA
68	9	30	1935	608	1214	-113.0	-5.2	-2	5	(2)	8	(3)	249	
69	7	20	2049	421	1311	-113.0	-4.7	23	99	(99)	99	(99)	64	AMP. TOO BROAD TO CALCULATE
69	10	21	2049	707	1334	-112.9	999.9	999	99	(99)	99	(99)	63	NO ELECTROJET
68	2	2	1926	465	1141	-112.7	-5.0	-47	19	(3)	22	(3)	38	
68	10	4	1909	658	1151	-112.4	-4.5	-30	9	(5)	17	(9)	299	
69	10	16	2122	624	1412	-111.6	999.9	999	99	(99)	99	(99)	199	NO ELECTROJET
68	1	23	2017	578	1242	-110.7	-6.0	-20	5	(2)	8	(3)	139	
68	2	5	1900	443	1123	-110.6	-5.9	-34	7	(1)	7	(1)	13	
68	2	25	1701	478	925	-110.5	-5.5	-12	13	(2)	16	(2)	59	
69	7	31	1915	418	1147	-110.5	-5.2	-25	33	(7)	34	(7)	51	
67	10	10	1836	691	1130	-110.3	-6.5	-55	12	(1)	25	(2)	308	
67	10	4	1911	610	1203	-110.2	-6.0	-23	7	(1)	12	(1)	240	
67	10	7	1854	650	1147	-110.2	-5.0	-16	9	(4)	17	(7)	271	
67	10	13	1819	732	1113	-110.2	-7.6	-35	4	(1)	9	(2)	344	
69	7	23	2015	409	1248	-110.1	-5.0	1	15	(5)	15	(5)	93	
70	7	21	2118	458	1352	-109.9	-5.3	-19	19	(5)	22	(5)	73	
67	9	28	1946	530	1237	-109.8	-7.5	-46	9	(1)	13	(1)	173	
69	10	11	2156	568	1450	-109.8	999.9	999	99	(99)	99	(99)	141	MISSING OR INCOMPLETE DATA
67	9	25	2002	500	1254	-109.6	-5.4	-44	18	(1)	24	(1)	138	
67	9	22	2019	470	1310	-109.3	-5.0	-36	0	(1)	0	(1)	106	
68	1	26	1952	539	1223	-109.0	-6.0	2	4	(2)	5	(2)	169	
67	9	19	2035	450	1327	-108.9	-5.5	-23	12	(5)	13	(5)	74	
69	10	24	2008	758	1311	-108.7	999.9	999	99	(99)	99	(99)	101	MISSING OR INCOMPLETE DATA
67	9	16	2051	430	1343	-108.5	-5.5	-15	14	(2)	15	(2)	43	
68	2	18	1735	432	1006	-108.5	-5.8	-53	26	(3)	28	(3)	143	
69	10	6	2227	486	1526	-108.5	999.9	999	99	(99)	99	(99)	77	MISSING OR INCOMPLETE DATA
68	2	8	1833	429	1105	-108.4	-6.0	-39	23	(3)	25	(3)	40	
67	9	13	2106	430	1400	-107.9	-6.0	-51	8	(4)	8	(4)	14	
68	2	28	1633	507	908	-107.8	-5.0	-9	6	(2)	8	(2)	95	
68	9	13	2055	441	1348	-107.7	-6.5	-34	21	(1)	23	(1)	60	
68	9	21	2007	502	1304	-107.7	-5.5	-18	10	(2)	13	(2)	136	
67	9	10	2122	423	1416	-107.4	-6.3	-6	12	(5)	12	(5)	36	
68	9	25	1942	548	1242	-107.4	-5.5	-21	12	(2)	18	(3)	187	
69	8	3	1840	436	1124	-107.4	-5.7	-9	24	(5)	26	(5)	90	
69	10	19	2042	678	1349	-107.4	999.9	999	99	(99)	99	(99)	39	ELECTROJET TOO BROAD TO CAL.
69	8	11	1738	516	1023	-107.3	-5.7	18	11	(9)	15	(12)	194	
68	1	29	1927	504	1205	-107.2	-6.0	-30	12	(1)	16	(1)	205	
69	7	26	1940	406	1225	-107.2	-5.2	19	15	(7)	15	(7)	125	
68	9	29	1917	596	1219	-107.0	-5.8	-6	4	(2)	6	(3)	234	
69	10	1	2259	440	1603	-106.7	-5.2	-50	12	(6)	13	(6)	13	
68	10	3	1851	645	1157	-106.5	-6.6	-33	5	(1)	9	(1)	285	
67	9	4	2152	441	1450	-106.0	-7.0	-16	6	(2)	6	(2)	93	
69	10	14	2115	592	1427	-106.0	-7.0	-16	10	(2)	16	(3)	176	
68	2	21	1707	448	949	-105.9	-6.0	-63	30	(2)	34	(2)	18	
68	10	7	1825	694	1134	-105.8	-5.5	-44	18	(2)	38	(4)	330	
69	7	10	2137	518	1429	-105.8	999.9	999	99	(99)	99	(99)	50	MISSING OR INCOMPLETE DATA
70	7	17	2132	427	1423	-105.7	999.9	999	99	(99)	99	(99)	34	MISSING OR INCOMPLETE DATA
67	9	1	2206	461	1506	-105.2	-7.5	-38	2	(1)	2	(1)	61	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	2	1	1902	474	1147	-105.2	-6.0	-51	24	(1)	29	(1)	25	
68	1	19	2016	635	1307	-104.7	-6.5	-19	8	(1)	15	(1)	93	
70	7	28	2003	538	1258	-104.6	-6.0	-30	22	(15)	32	(22)	37	
69	10	9	2148	522	1504	-104.5	999.9	999	99	(99)	99	(99)	114	MISSING OR INCOMPLETE DATA
69	10	27	1927	809	1248	-104.3	999.9	999	99	(99)	99	(99)	137	MISSING OR INCOMPLETE DATA
69	7	29	1905	410	1202	-104.2	-6.2	-17	25	(3)	25	(3)	25	
69	7	21	2005	416	1304	-103.7	-6.2	-1	15	(3)	15	(3)	75	
70	7	15	2139	416	1439	-103.5	-5.8	-4	15	(10)	15	(10)	13	
68	2	4	1836	450	1129	-103.2	-6.5	-45	17	(2)	19	(2)	54	
69	10	22	2002	723	1326	-103.2	999.9	999	99	(99)	99	(99)	74	MISSING OR INCOMPLETE DATA
68	1	22	1952	593	1248	-103.1	-6.9	-31	15	(3)	25	(5)	129	
69	7	13	2103	483	1406	-103.1	999.9	999	99	(99)	99	(99)	25	ELECTROJET TOO BROAD TO CAL.
69	10	4	2220	465	1541	-102.8	999.9	999	99	(99)	99	(99)	51	MISSING OR INCOMPLETE DATA
70	7	26	2010	512	1313	-102.6	-6.4	-46	23	(7)	31	(9)	12	
67	10	9	1810	678	1135	-102.1	-6.0	-51	10	(3)	20	(6)	298	
67	10	12	1752	719	1119	-102.1	-6.5	-26	8	(1)	18	(2)	330	
67	10	6	1827	640	1152	-102.0	-7.5	-28	15	(3)	28	(5)	262	
69	10	17	2036	639	1404	-101.9	999.9	999	99	(99)	99	(99)	14	MISSING OR INCOMPLETE DATA
67	9	24	1935	490	1259	-101.8	-7.5	-49	27	(6)	35	(7)	127	
68	9	16	2013	460	1332	-101.7	-7.3	-31	10	(4)	11	(4)	90	
67	9	27	1919	520	1243	-101.6	-7.0	-20	11	(3)	15	(4)	161	
68	9	12	2036	435	1354	-101.6	-8.0	-36	16	(2)	17	(2)	48	
68	9	24	1924	536	1247	-101.4	-6.9	-44	18	(5)	26	(7)	176	
68	2	17	1712	428	1012	-101.2	-6.8	-22	14	(3)	15	(3)	131	
69	8	1	1830	423	1139	-101.1	-5.7	-22	25	(9)	26	(9)	62	
67	9	21	1952	460	1316	-101.0	-12.2	-160	99	(99)	99	(99)	93	AMP. TOO BROAD TO CALCULATE
68	9	28	1859	583	1225	-101.0	-7.5	-11	11	(1)	18	(1)	219	
69	7	24	1930	407	1241	-100.8	-7.2	-10	20	(3)	20	(3)	104	
68	10	2	1833	632	1203	-100.6	-7.5	-61	13	(2)	24	(3)	272	
70	7	24	2018	489	1329	-100.6	999.9	999	99	(99)	99	(99)	98	MISSING OR INCOMPLETE DATA
68	2	27	1610	497	914	-100.5	-7.5	2	11	(1)	14	(1)	83	
69	10	12	2109	562	1442	-100.4	999.9	999	99	(99)	99	(99)	152	MISSING OR INCOMPLETE DATA
68	1	12	2039	735	1350	-100.1	-9.0	-59	13	(1)	30	(2)	13	
68	10	6	1807	679	1140	-99.9	-8.0	-17	11	(1)	22	(2)	321	
67	9	12	2039	423	1405	-99.6	-11.0	-1	7	(3)	7	(3)	51	
68	1	28	1903	515	1211	-99.6	-7.5	-44	12	(2)	16	(2)	191	
69	7	8	2126	547	1445	-99.3	-7.2	-6	10	(3)	15	(4)	23	
68	10	10	1740	727	1117	-99.2	999.9	999	99	(99)	99	(99)	363	MISSING OR INCOMPLETE DATA
67	9	9	2055	423	1422	-99.0	-8.0	-48	13	(3)	13	(3)	23	
69	10	25	1921	774	1304	-98.9	-9.4	-13	4	(2)	10	(5)	111	
69	10	7	2141	497	1519	-98.8	999.9	999	99	(99)	99	(99)	91	MISSING OR INCOMPLETE DATA
68	2	10	1743	423	1053	-98.7	-7.8	-107	32	(5)	34	(5)	66	
68	2	20	1643	439	955	-98.6	-7.9	-49	16	(1)	17	(1)	8	
70	7	22	2025	468	1344	-98.5	-7.2	-35	17	(5)	20	(6)	83	
69	8	12	1653	529	1016	-97.9	-7.8	-31	16	(5)	23	(7)	207	
68	3	1	1541	524	857	-97.8	-8.0	-54	28	(8)	39	(11)	115	
69	7	27	1855	406	1218	-97.8	-7.7	-72	34	(8)	34	(8)	138	
68	1	31	1838	483	1153	-97.7	-7.9	-26	12	(1)	15	(1)	16	
69	10	20	1956	689	1342	-97.7	999.9	999	99	(99)	99	(99)	52	MISSING OR INCOMPLETE DATA
67	9	3	2124	447	1455	-97.6	-8.0	-23	17	(6)	19	(6)	83	
69	7	19	1954	427	1319	-97.3	-7.7	-15	22	(5)	23	(5)	52	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	1	18	1952	650	1313	-97.1	-9.0	-19	3	(1)	5	(1)	83	
69	10	2	2213	447	1556	-97.0	999.9	999	99	(99)	99	(99)	24	MISSING OR INCOMPLETE DATA
69	7	11	2053	505	1422	-96.5	-9.2	-7	9	(3)	12	(4)	60	
70	7	20	2032	449	1400	-96.4	-7.7	-8	22	(4)	25	(4)	64	
68	2	13	1716	421	1036	-96.3	-8.0	-44	30	(3)	31	(3)	96	
68	2	23	1615	458	937	-96.0	-8.0	-28	23	(4)	27	(4)	42	
68	9	15	1954	453	1337	-95.6	-8.5	-52	25	(1)	29	(1)	77	
68	1	21	1928	607	1254	-95.5	-8.3	-26	15	(2)	26	(3)	118	
68	9	11	2018	431	1400	-95.5	-8.0	-30	99	(99)	99	(99)	39	AMP. TOO BROAD TO CALCULATE
68	9	19	1931	485	1315	-95.5	-9.0	-30	17	(2)	21	(2)	114	
68	9	23	1906	525	1253	-95.3	-9.0	-48	17	(4)	24	(5)	162	
68	9	27	1841	571	1231	-95.0	-9.0	-20	12	(4)	19	(6)	206	
69	7	30	1821	414	1155	-94.8	-8.2	-68	48	(7)	50	(7)	38	
69	10	10	2102	535	1455	-94.8	999.9	999	99	(99)	99	(99)	127	MISSING OR INCOMPLETE DATA
69	7	22	1920	412	1256	-94.4	-8.5	-14	21	(1)	21	(1)	87	
70	7	18	2039	434	1416	-94.3	-8.2	-7	12	(2)	13	(2)	45	
68	10	5	1749	669	1146	-94.0	-9.5	-35	12	(4)	24	(8)	311	
67	10	8	1741	664	1141	-93.9	-9.0	-20	14	(3)	28	(6)	284	
67	10	11	1725	699	1124	-93.9	-9.0	-35	8	(3)	17	(6)	316	
67	10	14	1707	745	1107	-93.9	-10.3	-23	10	(4)	24	(9)	351	
67	10	5	1801	620	1158	-93.8	-9.0	-50	22	(2)	39	(3)	251	
69	7	14	2019	469	1358	-93.7	-9.0	-25	10	(3)	12	(3)	38	
68	2	6	1746	438	1117	-93.6	-9.8	-28	16	(1)	17	(1)	25	
69	10	23	1915	740	1319	-93.4	999.9	999	99	(99)	99	(99)	87	NO ELECTROJET
67	9	26	1852	510	1248	-93.3	-9.0	-42	15	(2)	20	(2)	150	
68	2	26	1546	483	920	-93.3	-9.1	-10	15	(2)	19	(2)	69	
68	10	9	1723	717	1123	-93.3	999.9	999	99	(99)	99	(99)	354	MISSING OR INCOMPLETE DATA
69	10	5	2134	475	1534	-93.1	-9.4	-39	14	(2)	17	(2)	62	
67	9	23	1908	480	1305	-93.0	-9.0	-42	24	(5)	30	(6)	119	
67	9	20	1924	450	1321	-92.7	-9.0	-25	99	(99)	99	(99)	82	AMP. TOO BROAD TO CALCULATE
69	10	18	1949	651	1357	-92.2	-15.4	-10	5	(4)	9	(7)	28	
68	1	27	1839	527	1218	-92.0	-9.8	-25	10	(4)	14	(5)	177	
69	8	2	1745	429	1132	-91.8	-9.2	-13	38	(1)	41	(1)	75	
69	8	10	1643	503	1031	-91.7	-9.0	-23	25	(3)	33	(4)	179	
68	2	9	1719	426	1059	-91.3	-9.5	-47	22	(1)	23	(1)	53	
68	2	19	1620	434	1000	-91.3	-9.5	-43	26	(7)	28	(7)	156	
70	7	27	1917	524	1306	-91.2	-9.2	-60	99	(99)	99	(99)	24	AMP. TOO BROAD TO CALCULATE
68	1	14	1951	708	1338	-91.0	-7.0	-42	4	(1)	8	(2)	34	
69	10	13	2022	577	1433	-90.7	999.9	999	99	(99)	99	(99)	164	MISSING OR INCOMPLETE DATA
68	2	29	1518	512	903	-90.5	-10.0	-50	20	(4)	27	(5)	104	
68	1	30	1814	494	1159	-90.2	-9.9	-26	15	(3)	19	(3)	212	
69	7	9	2042	533	1437	-90.0	-9.7	-14	12	(1)	17	(1)	36	
68	2	12	1652	421	1042	-89.5	-10.5	-45	16	(1)	17	(1)	87	
68	9	18	1912	476	1320	-89.4	999.9	999	99	(99)	99	(99)	103	MISSING OR INCOMPLETE DATA
68	9	10	1959	427	1405	-89.3	-10.0	-44	25	(4)	27	(4)	28	
68	9	22	1848	514	1259	-89.3	-10.0	-19	17	(4)	23	(5)	149	
69	10	8	2054	503	1512	-89.3	-10.0	-26	10	(2)	13	(2)	101	
67	9	2	2056	454	1501	-89.1	-11.0	-38	14	(3)	16	(3)	74	
68	9	30	1757	604	1214	-88.6	-10.0	-13	14	(1)	24	(1)	248	
69	10	26	1837	831	1258	-88.6	-12.4	-15	99	(99)	99	(99)	124	AMP. TOO BROAD TO CALCULATE
69	7	28	1811	408	1210	-88.5	-10.0	-44	40	(8)	40	(8)	12	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	8	13	1607	542	1009	-88.5	-9.0	-17	10	(5)	14	(7)	218	
68	10	4	1732	657	1151	-88.1	999.9	999	99	(99)	99	(99)	298	MISSING OR INCOMPLETE DATA
69	7	20	1910	421	1312	-88.0	-10.3	3	24	(4)	25	(4)	63	
68	1	20	1903	621	1301	-87.9	-10.5	-44	21	(3)	38	(5)	104	
69	10	3	2126	452	1549	-87.5	-10.4	-52	17	(2)	19	(2)	38	
69	10	21	1911	739	1336	-87.5	999.9	999	99	(99)	99	(99)	62	MISSING OR INCOMPLETE DATA
69	10	16	1943	622	1411	-86.6	999.9	999	99	(99)	99	(99)	198	MISSING OR INCOMPLETE DATA
68	1	23	1839	579	1242	-86.2	-10.3	-22	9	(3)	14	(4)	138	
68	2	5	1722	444	1123	-86.1	-11.0	-37	10	(1)	11	(1)	12	
68	2	25	1523	473	926	-86.0	-10.9	-17	13	(2)	16	(2)	58	
67	10	7	1716	650	1147	-85.7	-11.2	-36	20	(1)	38	(1)	270	
67	10	10	1659	690	1130	-85.7	-11.0	-48	11	(1)	23	(2)	307	
67	10	13	1641	731	1113	-85.7	-10.4	-35	10	(2)	23	(4)	343	
67	10	4	1734	610	1204	-85.6	-11.5	-31	16	(4)	28	(7)	239	
67	9	28	1807	530	1237	-85.3	-11.0	-123	50	(8)	72	(11)	172	
69	7	23	1836	409	1249	-85.1	-10.4	-27	32	(5)	32	(5)	92	
69	10	11	2015	548	1447	-85.1	999.9	999	99	(99)	99	(99)	140	MISSING OR INCOMPLETE DATA
67	9	25	1825	500	1254	-85.0	-11.0	-44	32	(2)	42	(2)	137	
67	9	22	1841	470	1311	-84.7	-11.5	-64	24	(2)	29	(2)	105	
67	9	19	1857	450	1327	-84.4	-11.5	-50	25	(5)	28	(5)	73	
69	7	15	1934	459	1351	-84.4	-10.2	-14	20	(4)	23	(4)	50	
68	2	18	1557	429	1006	-84.0	-11.0	-73	46	(2)	50	(2)	142	
68	2	8	1655	431	1105	-83.9	-10.4	-24	22	(1)	24	(1)	39	
69	10	6	2048	485	1527	-83.5	999.9	999	99	(99)	99	(99)	76	MISSING OR INCOMPLETE DATA
67	9	13	1929	420	1400	-83.4	-12.5	-61	18	(2)	19	(2)	13	
68	2	28	1455	502	909	-83.3	999.9	999	99	(99)	99	(99)	94	NO ELECTROJET
68	9	13	1918	440	1349	-83.3	999.9	999	99	(99)	99	(99)	59	MISSING OR INCOMPLETE DATA
68	9	9	1940	422	1411	-83.2	-11.4	-40	20	(4)	21	(4)	15	
69	10	24	1830	764	1312	-83.2	999.9	999	99	(99)	99	(99)	100	MISSING OR INCOMPLETE DATA
68	9	25	1805	545	1242	-83.0	-11.8	-37	24	(2)	36	(3)	186	
68	1	29	1750	504	1206	-82.7	-12.0	-43	26	(1)	35	(1)	204	
68	9	29	1740	593	1220	-82.6	-12.2	-16	13	(2)	22	(3)	233	
69	10	19	1903	671	1349	-82.4	-14.0	-26	6	(1)	12	(2)	38	
69	8	11	1558	515	1023	-82.3	-11.2	9	99	(99)	99	(99)	193	AMP. TOO BROAD TO CALCULATE
68	10	3	1714	643	1157	-82.1	-11.0	-44	12	(1)	22	(1)	284	
69	7	26	1801	406	1226	-82.1	-11.2	18	18	(2)	18	(2)	124	
69	10	1	2119	436	1604	-81.7	-12.2	-67	10	(3)	11	(3)	12	
68	2	11	1628	422	1048	-81.6	-11.5	-86	18	(12)	19	(12)	76	
69	7	18	1859	434	1327	-81.6	-11.2	-9	16	(2)	17	(2)	37	
68	2	21	1529	444	949	-81.4	-11.3	-47	19	(4)	21	(4)	17	
68	10	7	1647	693	1135	-81.4	-11.5	-9	12	(1)	25	(2)	329	
69	10	14	1936	591	1426	-81.0	999.9	999	99	(99)	99	(99)	175	MISSING OR INCOMPLETE DATA
68	2	1	1724	475	1147	-80.7	-12.0	-27	20	(3)	24	(3)	24	
69	7	10	1957	519	1430	-80.7	-12.2	-2	9	(1)	12	(1)	49	
70	7	28	1824	537	1258	-79.7	-12.2	-33	99	(99)	99	(99)	36	AMP. TOO BROAD TO CALCULATE
69	10	9	2008	516	1505	-79.5	-12.2	3	4	(2)	5	(2)	113	
69	10	27	1748	808	1249	-79.3	999.9	999	99	(99)	99	(99)	136	MISSING OR INCOMPLETE DATA
68	2	4	1659	450	1129	-78.7	-12.5	-55	24	(5)	27	(5)	53	
69	7	21	1825	416	1304	-78.7	-11.8	-13	23	(9)	24	(9)	74	
68	1	22	1814	593	1249	-78.6	-13.0	-38	15	(3)	25	(5)	128	
70	7	15	2000	416	1439	-78.6	-17.7	-3	20	(14)	20	(14)	12	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP.	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	10	22	1822	722	1324	-78.2	999.9	999	99	(99)	99	(99)	73	MISSING OR INCOMPLETE DATA
69	7	13	1924	481	1406	-78.0	-12.0	-35	22	(5)	27	(6)	24	
69	10	4	2040	459	1542	-77.9	-12.4	-28	5	(1)	5	(1)	50	
67	10	6	1650	640	1153	-77.5	-13.0	-44	24	(1)	45	(1)	261	
67	10	9	1632	677	1136	-77.5	-13.0	-27	14	(1)	28	(2)	297	
67	10	12	1614	718	1119	-77.5	-12.5	-61	23	(4)	52	(9)	329	
68	9	16	1835	457	1332	-77.3	-12.0	-39	20	(6)	23	(7)	89	
67	9	30	1724	560	1226	-77.2	-12.6	-70	24	(4)	37	(6)	195	
68	9	12	1859	433	1354	-77.2	-12.5	-55	23	(5)	25	(5)	47	
67	9	27	1741	520	1243	-77.0	-12.8	-40	23	(3)	32	(4)	160	
68	9	24	1747	533	1248	-77.0	-12.7	-42	22	(3)	32	(4)	175	
68	1	25	1750	553	1230	-76.9	-12.8	-10	9	(2)	13	(3)	157	
69	10	17	1856	638	1405	-76.9	-15.0	5	4	(2)	7	(3)	13	
67	9	24	1758	490	1300	-76.7	-13.0	-57	39	(3)	50	(3)	126	
68	2	17	1534	428	1012	-76.7	-12.0	-19	17	(3)	18	(3)	130	
68	9	28	1722	582	1225	-76.6	-13.0	-4	8	(1)	13	(1)	218	
68	2	7	1632	433	1111	-76.5	-12.0	-7	0	(1)	0	(1)	32	
67	9	21	1814	460	1316	-76.4	-12.8	-100	33	(3)	39	(3)	92	
68	10	2	1656	626	1203	-76.2	-13.0	-44	11	(1)	20	(1)	271	
68	2	27	1432	490	915	-76.1	-13.0	-2	7	(2)	9	(2)	82	
67	9	18	1830	440	1333	-76.0	-12.7	-48	32	(7)	36	(7)	62	
69	7	24	1751	407	1241	-75.7	-13.0	-12	28	(3)	28	(3)	103	
68	10	6	1630	678	1140	-75.5	999.9	999	99	(99)	99	(99)	320	MISSING OR INCOMPLETE DATA
68	1	28	1725	516	1212	-75.1	-12.8	-42	17	(2)	23	(2)	190	
69	7	16	1849	450	1341	-75.1	-12.2	-19	18	(4)	20	(4)	11	
68	2	10	1605	423	1054	-74.2	-12.0	-16	4	(3)	4	(3)	65	
69	7	8	1947	549	1446	-74.2	-13.2	7	6	(2)	9	(3)	22	
68	1	15	1838	694	1332	-74.1	-13.0	-39	4	(2)	8	(4)	46	
68	2	20	1506	441	955	-74.1	999.9	999	99	(99)	99	(99)	7	NO ELECTROJET
69	10	7	2001	488	1518	-73.9	999.9	999	99	(99)	99	(99)	90	MISSING OR INCOMPLETE DATA
68	3	1	1403	521	857	-73.3	-12.5	-32	14	(4)	19	(5)	114	
68	1	31	1700	484	1154	-73.2	-13.0	-36	21	(3)	26	(3)	15	
69	8	4	1615	443	1117	-73.0	-12.7	-17	17	(7)	19	(7)	103	
69	7	27	1715	406	1218	-72.8	-12.2	-51	20	(13)	20	(13)	137	
69	10	20	1816	688	1342	-72.7	-14.4	-11	5	(2)	10	(4)	51	
68	1	18	1814	651	1313	-72.6	-13.0	-23	10	(2)	19	(3)	82	
69	7	19	1815	427	1320	-72.3	-12.7	-17	27	(5)	29	(5)	51	
69	10	2	2033	441	1557	-72.2	-13.0	-62	10	(4)	11	(4)	23	
68	2	13	1538	420	1036	-71.8	-13.5	-41	31	(2)	32	(2)	95	
70	7	20	1853	444	1400	-71.7	-12.2	-3	99	(99)	99	(99)	63	MISSING OR INCOMPLETE DATA
68	2	23	1438	461	938	-71.5	-13.5	-24	24	(1)	28	(1)	41	
69	7	11	1913	506	1422	-71.5	-12.2	-3	5	(3)	6	(4)	59	
68	2	3	1635	458	1136	-71.2	-13.5	-103	38	(2)	45	(2)	44	
68	9	19	1753	479	1316	-71.1	-13.5	-43	22	(3)	27	(3)	113	
68	1	21	1750	607	1255	-71.0	-13.5	-42	22	(2)	38	(3)	117	
69	10	15	1851	631	1422	-71.0	999.9	999	99	(99)	99	(99)	186	MISSING OR INCOMPLETE DATA
68	9	23	1721	524	1253	-70.9	-14.0	-48	99	(99)	99	(99)	161	AMP. TOO BROAD TO CALCULATE
68	9	27	1705	588	1232	-70.6	999.9	999	99	(99)	99	(99)	205	MISSING OR INCOMPLETE DATA
68	10	1	1638	611	1209	-70.2	999.9	999	99	(99)	99	(99)	258	ELECTROJET TOO BROAD TO CAL.
69	8	7	1539	469	1052	-69.9	-13.0	0	99	(99)	99	(99)	137	MISSING OR INCOMPLETE DATA
69	7	30	1641	413	1155	-69.7	-13.7	-14	38	(9)	39	(9)	37	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP.	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	10	5	1612	667	1146	-69.6	-13.0	-48	20	(1)	40	(2)	310	
69	10	10	1923	554	1458	-69.5	999.9	999	99	(99)	99	(99)	126	MISSING OR INCOMPLETE DATA
67	10	11	1547	704	1125	-69.4	-14.2	-74	27	(6)	59	(13)	315	
68	2	16	1511	425	1018	-69.4	-13.7	-64	20	(5)	21	(5)	122	
70	7	18	1900	433	1416	-69.4	-12.6	-12	99	(99)	99	(99)	44	MISSING OR INCOMPLETE DATA
67	10	5	1623	620	1158	-69.3	-13.5	-57	27	(2)	48	(3)	250	
67	10	8	1605	663	1142	-69.3	-13.0	-27	20	(1)	40	(2)	283	
69	7	22	1741	412	1257	-69.3	-13.4	-16	29	(5)	30	(5)	86	
68	2	6	1609	438	1118	-69.1	-13.5	-36	19	(1)	21	(1)	24	
67	9	29	1657	540	1232	-69.0	-13.0	-92	25	(7)	37	(10)	184	
68	10	9	1545	716	1123	-68.9	-12.5	-14	5	(1)	11	(2)	353	
68	2	26	1409	481	920	-68.8	-13.0	-4	9	(1)	11	(1)	68	
67	9	26	1714	510	1249	-68.7	-13.8	-40	21	(1)	28	(1)	149	
69	7	14	1839	470	1359	-68.7	-12.7	-25	16	(6)	19	(7)	37	
67	9	23	1730	480	1305	-68.5	-13.7	-54	37	(3)	46	(3)	118	
67	9	20	1747	460	1321	-68.1	-13.0	0	18	(3)	21	(3)	81	
69	10	23	1738	776	1322	-68.0	-14.4	-12	99	(99)	99	(99)	86	AMP. TOO BROAD TO CALCULATE
70	7	16	1906	416	1432	-67.5	999.9	999	99	(99)	99	(99)	23	NO ELECTROJET
69	10	18	1810	653	1357	-67.1	999.9	999	99	(99)	99	(99)	27	MISSING OR INCOMPLETE DATA
68	2	9	1542	426	1100	-66.8	-13.7	-63	26	(2)	28	(2)	52	
68	2	19	1443	435	1001	-66.8	-13.8	-46	22	(6)	24	(6)	155	
69	8	2	1606	428	1132	-66.7	-13.5	-20	35	(6)	38	(6)	74	
70	7	27	1738	523	1306	-66.3	-12.2	-50	12	(10)	17	(14)	23	
68	2	29	1340	516	903	-66.0	-14.0	-48	13	(1)	18	(1)	103	
69	7	17	1804	442	1335	-65.8	-13.2	-21	99	(99)	99	(99)	25	AMP. TOO BROAD TO CALCULATE
68	1	30	1636	494	1200	-65.7	-14.0	-53	24	(1)	31	(1)	211	
68	1	17	1749	665	1320	-64.9	-14.0	-46	23	(4)	46	(8)	73	
68	9	10	1822	426	1405	-64.9	999.9	999	99	(99)	99	(99)	27	MISSING OR INCOMPLETE DATA
68	9	22	1711	513	1259	-64.9	-14.0	-23	14	(1)	19	(1)	148	
69	7	9	1902	534	1438	-64.9	-14.2	-18	9	(1)	13	(1)	35	
67	9	2	1919	454	1501	-64.6	-14.0	-38	10	(2)	11	(2)	73	
70	7	25	1745	492	1322	-64.4	-13.4	-88	99	(99)	99	(99)	105	AMP. TOO BROAD TO CALCULATE
68	2	22	1415	454	943	-64.2	999.9	999	99	(99)	99	(99)	29	NO ELECTROJET
68	9	30	1620	606	1214	-64.2	-14.0	-15	11	(4)	19	(7)	247	
68	2	2	1611	466	1142	-63.7	-13.5	-34	17	(6)	20	(7)	37	
68	10	4	1554	656	1152	-63.7	-13.5	-52	14	(1)	27	(1)	297	
69	8	5	1530	650	1110	-63.6	-13.7	-30	11	(7)	12	(8)	117	
68	1	20	1725	622	1301	-63.4	-13.5	-30	17	(4)	30	(7)	103	
69	7	28	1631	408	1210	-63.4	-14.0	-58	47	(4)	48	(4)	11	
69	8	13	1428	541	1009	-63.4	-13.8	-25	21	(6)	31	(8)	217	
68	10	8	1528	704	1129	-63.0	-12.5	-44	11	(2)	24	(4)	342	
69	10	21	1729	704	1335	-62.9	-14.4	-29	8	(2)	17	(4)	61	
69	10	3	1947	455	1550	-62.4	-14.4	-53	10	(0)	11	(0)	37	
70	7	23	1752	469	1337	-62.4	-13.2	-50	99	(99)	99	(99)	88	AMP. TOO BROAD TO CALCULATE
69	7	12	1828	496	1415	-62.2	-14.2	20	8	(3)	10	(3)	12	
68	1	23	1701	580	1243	-61.7	-13.6	-38	21	(2)	34	(3)	137	
68	2	5	1545	444	1124	-61.6	-14.4	-38	15	(6)	17	(6)	11	
67	10	13	1503	730	1114	-61.2	-13.3	-42	18	(3)	41	(6)	342	
67	10	4	1556	610	1204	-61.1	-13.5	-30	12	(1)	21	(1)	238	
67	9	28	1630	530	1238	-60.7	-13.0	-51	18	(7)	26	(10)	171	
67	9	25	1647	500	1254	-60.5	-13.5	-43	25	(3)	33	(4)	136	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	8	8	1455	479	1047	-60.5	-12.2	-2	5	(10)	6	(12)	150	
69	7	31	1556	417	1148	-60.4	-12.7	-27	5	(3)	5	(3)	49	
67	9	22	1703	470	1311	-60.2	-13.5	-81	35	(2)	42	(2)	104	
70	7	21	1800	457	1353	-60.1	-12.8	-50	25	(10)	29	(11)	72	
68	1	26	1637	540	1224	-60.0	-12.8	-41	20	(5)	29	(7)	167	
68	2	18	1420	431	1007	-59.5	-13.0	-60	28	(1)	30	(1)	141	
68	2	8	1518	429	1106	-59.4	-13.0	-23	10	(3)	10	(3)	38	
69	7	15	1754	461	1351	-59.4	-13.0	-33	28	(5)	33	(5)	49	
68	2	28	1318	505	909	-58.8	-9.0	-15	2	(1)	2	(1)	93	
68	9	9	1804	423	1411	-58.8	-13.0	-46	13	(2)	13	(2)	14	
68	9	25	1628	546	1242	-58.6	-13.0	-32	16	(2)	24	(3)	185	
69	10	6	1908	484	1526	-58.4	999.9	999	99	(99)	99	(99)	75	MISSING OR INCOMPLETE DATA
70	7	19	1806	432	1409	-58.3	999.9	999	99	(99)	99	(99)	54	MISSING OR INCOMPLETE DATA
68	9	29	1603	594	1220	-58.2	-12.0	-12	9	(2)	15	(3)	232	
68	1	29	1612	505	1206	-58.1	-13.2	-45	28	(2)	37	(2)	203	
68	10	3	1537	643	1158	-57.7	-11.0	-55	15	(1)	28	(1)	283	
69	10	19	1723	670	1350	-57.4	-12.4	-41	99	(99)	99	(99)	37	AMP. TOO BROAD TO CALCULATE
68	1	16	1725	680	1326	-57.3	-13.0	-56	23	(4)	47	(8)	59	
69	8	3	1521	435	1125	-57.3	-12.7	-26	24	(3)	26	(3)	88	
69	8	11	1419	514	1024	-57.3	-11.7	8	9	(3)	12	(4)	192	
68	2	11	1451	421	1048	-57.1	-11.5	-115	38	(9)	40	(9)	75	
68	10	7	1510	692	1135	-57.1	-13.0	-31	11	(2)	23	(4)	328	
69	7	26	1621	406	1226	-57.1	-12.2	8	20	(2)	20	(2)	123	
68	2	21	1352	447	949	-56.9	-10.3	-33	8	(1)	9	(1)	16	
69	7	18	1720	434	1328	-56.5	-10.7	-13	14	(3)	15	(3)	36	
68	2	1	1547	475	1148	-56.2	-11.9	-34	28	(1)	34	(1)	23	
68	1	19	1701	637	1307	-55.7	-12.0	-83	35	(1)	66	(1)	92	
69	7	10	1818	520	1430	-55.7	-11.2	-4	8	(1)	11	(1)	48	
70	7	28	1644	536	1259	-54.8	-11.8	-27	12	(3)	17	(4)	35	
68	2	14	1424	421	1030	-54.7	-11.5	-24	21	(4)	22	(4)	104	
69	10	9	1829	520	1505	-54.4	-10.0	-1	3	(1)	4	(1)	112	
68	2	24	1323	468	932	-54.3	-9.2	-29	10	(1)	12	(1)	51	
69	10	27	1608	806	1249	-54.3	-10.4	-35	14	(1)	38	(2)	135	
68	2	4	1521	451	1130	-54.2	-12.1	-78	24	(8)	27	(9)	52	
68	1	22	1637	594	1249	-54.1	-12.0	-62	27	(2)	45	(3)	127	
69	7	29	1546	410	1203	-54.1	-9.2	-10	7	(4)	7	(4)	24	
70	7	15	1821	415	1440	-53.7	-11.2	-18	18	(1)	18	(1)	11	
69	7	21	1645	416	1304	-53.6	-10.0	-4	11	(6)	11	(6)	73	
67	10	9	1454	676	1136	-53.0	-12.0	-36	18	(4)	37	(8)	296	
67	10	12	1436	717	1119	-53.0	-11.2	-37	20	(1)	45	(2)	328	
67	10	6	1512	630	1153	-52.9	-12.0	-41	23	(1)	42	(1)	260	
69	7	13	1744	482	1407	-52.9	999.9	999	99	(99)	99	(99)	23	MISSING OR INCOMPLETE DATA
68	9	20	1634	493	1310	-52.8	-10.9	-24	17	(1)	22	(1)	127	
70	7	26	1652	510	1314	-52.8	-11.2	-54	20	(7)	27	(9)	11	
67	9	30	1546	560	1227	-52.7	-10.5	-79	17	(3)	26	(4)	194	
69	10	4	1901	464	1542	-52.7	-11.0	-38	12	(1)	14	(1)	49	
68	9	8	1745	421	1417	-52.6	-11.0	-112	23	(4)	24	(4)	7	
68	9	24	1610	534	1248	-52.6	-11.0	-37	18	(3)	26	(4)	174	
68	1	25	1612	553	1231	-52.4	-11.2	-16	16	(1)	24	(1)	156	
68	2	17	1356	427	1013	-52.2	-10.4	-33	26	(4)	28	(4)	129	
68	9	28	1545	581	1226	-52.2	-10.3	-12	7	(1)	11	(1)	217	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP.	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	10	2	1519	630	1203	-51.8	-12.0	-36	5	(1)	9	(1)	270	
69	10	17	1717	637	1405	-51.8	-10.4	4	6	(0)	11	(0)	12	
68	2	27	1255	495	915	-51.6	999.9	999	99	(99)	99	(99)	81	MISSING OR INCOMPLETE DATA
68	1	12	1723	737	1351	-51.1	-10.5	-39	12	(2)	28	(4)	11	
68	10	6	1453	680	1141	-51.1	-11.0	-29	17	(5)	35	(10)	319	
69	8	1	1511	422	1140	-51.0	-10.2	-20	17	(2)	18	(2)	60	
69	8	9	1409	490	1040	-51.0	-10.2	-15	18	(4)	23	(5)	164	
70	7	24	1700	487	1330	-50.8	999.9	999	99	(99)	99	(99)	97	NO ELECTROJET
69	7	24	1611	407	1242	-50.7	-11.2	2	12	(4)	12	(4)	102	
68	1	28	1548	517	1212	-50.6	-10.0	-41	29	(1)	40	(1)	189	
69	10	12	1750	560	1443	-50.4	-9.4	-30	4	(1)	6	(1)	151	
69	7	16	1709	451	1344	-50.1	-9.2	-18	15	(4)	17	(4)	10	
68	2	10	1428	423	1054	-49.7	-10.0	-14	-5	(1)	-5	(1)	64	
68	1	15	1700	695	1332	-49.6	-10.0	-38	8	(4)	17	(8)	45	
69	7	8	1807	549	1446	-49.1	999.9	999	99	(99)	99	(99)	21	ELECTROJET TOO BROAD TO CAL.
68	3	1	1226	527	858	-48.8	999.9	999	99	(99)	99	(99)	113	ELECTROJET TOO BROAD TO CAL.
69	10	7	1822	495	1520	-48.8	-8.9	-24	6	(1)	7	(1)	89	
68	1	31	1523	485	1154	-48.7	-9.0	-45	37	(5)	47	(6)	14	
70	7	22	1707	466	1345	-48.7	-9.2	-29	12	(4)	14	(4)	82	
69	8	4	1436	442	1118	-48.0	-8.7	-12	13	(6)	14	(6)	102	
69	8	12	1333	527	1017	-47.8	-8.7	-39	25	(5)	35	(7)	205	
68	2	13	1400	420	1036	-47.7	-8.5	-34	21	(1)	22	(1)	94	
69	7	27	1536	406	1219	-47.7	-9.7	-43	9	(1)	9	(1)	136	
69	10	20	1637	686	1343	-47.6	999.9	999	99	(99)	99	(99)	50	NO ELECTROJET
69	7	19	1635	428	1320	-47.2	-8.2	-3	12	(5)	13	(5)	50	
68	2	23	1300	460	938	-47.0	-8.8	-14	15	(3)	17	(3)	40	
69	10	2	1853	446	1557	-47.0	-8.0	-65	10	(5)	11	(5)	22	
68	2	3	1457	458	1136	-46.7	-8.2	-89	44	(2)	52	(2)	43	
68	9	19	1616	483	1316	-46.7	-8.8	-27	10	(2)	12	(2)	112	
70	7	20	1714	448	1401	-46.6	999.9	999	99	(99)	99	(99)	62	
68	1	21	1612	608	1255	-46.5	-8.3	-50	34	(2)	59	(3)	116	
68	9	23	1552	523	1254	-46.5	-9.0	-64	11	(3)	15	(4)	160	
69	7	11	1733	507	1423	-46.4	999.9	999	99	(99)	99	(99)	58	NO ELECTROJET
69	10	15	1710	605	1420	-46.3	-8.0	-11	6	(1)	10	(1)	185	
68	10	1	1501	618	1209	-45.8	-8.5	-21	11	(1)	19	(1)	257	
68	10	5	1435	667	1147	-45.2	-8.0	-33	15	(5)	30	(10)	309	
68	2	16	1333	424	1019	-44.9	-8.0	-28	7	(6)	7	(6)	121	
67	10	11	1410	703	1125	-44.8	-8.0	-54	27	(7)	59	(15)	314	
69	10	10	1743	532	1458	-44.8	999.9	999	99	(99)	99	(99)	125	ELECTROJET TOO BROAD TO CAL.
67	10	5	1445	620	1159	-44.7	-8.0	-41	25	(3)	45	(5)	249	
69	7	30	1501	413	1156	-44.7	-7.7	-15	40	(3)	41	(3)	36	
68	2	6	1431	438	1118	-44.6	-7.0	-32	17	(4)	19	(4)	23	
68	10	9	1408	715	1124	-44.5	999.9	999	99	(99)	99	(99)	352	MISSING OR INCOMPLETE DATA
70	7	18	1721	432	1417	-44.5	-9.0	7	3	(2)	3	(2)	43	
67	9	29	1519	540	1232	-44.4	-8.0	-90	20	(4)	29	(5)	183	
68	2	26	1232	484	921	-44.3	-7.0	1	4	(1)	5	(1)	67	
69	7	22	1601	413	1257	-44.3	-6.4	11	5	(3)	5	(3)	85	
67	9	26	1536	510	1249	-44.2	-5.8	-25	12	(5)	16	(6)	148	
67	9	23	1553	480	1306	-43.9	-8.0	-47	34	(3)	42	(3)	117	
67	9	20	1609	460	1322	-43.6	-6.5	-25	14	(1)	16	(1)	80	
69	7	14	1659	471	1359	-43.6	999.9	999	99	(99)	99	(99)	36	NO ELECTROJET

YR.	MON.	DAY.	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP.	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	10	23	1556	737	1320	-43.4	-6.4	-9	99	(99)	99	(99)	85	AMP. TOO BROAD TO CALCULATE
68	1	27	1523	529	1218	-43.0	-7.0	-39	31	(2)	44	(2)	176	
68	2	9	1404	426	1100	-42.9	-6.5	-25	-2	(1)	-2	(1)	51	
70	7	16	1728	420	1432	-42.4	999.9	999	99	(99)	99	(99)	22	NO ELECTROJET
69	10	18	1630	653	1358	-42.1	-6.0	-14	8	(2)	15	(3)	26	
69	8	2	1426	428	1133	-41.7	-5.7	-16	28	(7)	30	(7)	73	
68	2	29	1203	515	904	-41.6	-14.5	-39	99	(99)	99	(99)	102	AMP. TOO BROAD TO CALCULATE
69	8	10	1324	501	1032	-41.6	-5.5	-15	17	(4)	22	(5)	177	
67	9	8	1711	426	1428	-41.5	-6.0	-9	5	(3)	5	(3)	10	
70	7	27	1559	522	1307	-41.4	-11.0	-42	6	(4)	8	(5)	22	
69	7	25	1526	406	1234	-41.3	-9.2	26	3	(3)	3	(3)	114	
68	1	30	1459	495	1200	-41.2	-5.0	-32	18	(1)	23	(1)	210	
67	9	5	1726	436	1444	-40.8	999.9	999	99	(99)	99	(99)	103	MISSING OR INCOMPLETE DATA
69	7	17	1625	442	1336	-40.8	-5.2	-15	13	(6)	14	(6)	24	
69	10	13	1703	574	1436	-40.7	-5.4	-18	6	(2)	9	(3)	163	
68	9	14	1622	445	1344	-40.6	-5.5	-50	25	(13)	28	(14)	72	
68	9	10	1645	426	1406	-40.5	-14.7	-12	99	(99)	99	(99)	26	AMP. TOO BROAD TO CALCULATE
68	9	22	1534	513	1259	-40.5	-5.0	-7	3	(1)	4	(1)	147	
68	1	17	1612	666	1320	-40.4	-5.5	-43	22	(5)	44	(10)	72	
67	9	2	1741	455	1502	-40.0	-6.5	-24	1	(1)	1	(1)	72	
68	2	12	1337	421	1042	-40.0	-5.0	-50	30	(7)	31	(7)	86	
69	7	9	1723	535	1438	-39.9	999.9	999	99	(99)	99	(99)	34	NO ELECTROJET
68	9	30	1443	605	1215	-39.8	-6.0	2	99	(99)	99	(99)	246	AMP. TOO BROAD TO CALCULATE
68	2	22	1237	453	944	-39.7	-14.0	-15	99	(99)	99	(99)	28	AMP. TOO BROAD TO CALCULATE
70	7	25	1606	498	1322	-39.4	-5.5	-66	11	(3)	14	(3)	104	
68	10	4	1417	655	1152	-39.3	999.9	999	99	(99)	99	(99)	296	MISSING OR INCOMPLETE DATA
68	2	2	1433	467	1142	-39.2	-4.5	-65	38	(3)	46	(3)	36	
69	10	8	1736	507	1513	-39.1	999.9	999	99	(99)	99	(99)	100	NO ELECTROJET
69	10	26	1516	788	1257	-39.1	-5.2	-9	5	(1)	13	(2)	123	
68	1	20	1548	623	1302	-38.8	-5.0	-21	12	(3)	21	(5)	102	
68	10	8	1351	704	1130	-38.6	-4.5	-32	16	(1)	35	(2)	341	
69	8	5	1351	450	1110	-38.6	-3.7	-3	7	(1)	8	(1)	116	
69	7	28	1451	407	1211	-38.4	-5.0	-37	29	(6)	29	(6)	10	
69	8	13	1248	540	1010	-38.4	-4.0	-21	21	(6)	31	(8)	216	
69	10	21	1550	703	1335	-37.9	-6.4	-14	7	(4)	15	(8)	60	
69	10	3	1807	454	1550	-37.3	-3.0	-56	14	(1)	16	(1)	36	
70	7	23	1614	476	1338	-37.3	-3.0	-18	21	(7)	26	(8)	87	
68	2	5	1407	444	1124	-37.1	-3.5	-48	31	(3)	35	(3)	10	
68	2	25	1209	476	927	-37.1	-11.0	-13	99	(99)	99	(99)	57	AMP. TOO BROAD TO CALCULATE
69	7	12	1649	494	1415	-37.1	-4.2	15	5	(2)	6	(2)	11	
67	10	7	1401	650	1148	-36.6	-5.7	-28	16	(4)	31	(7)	268	
67	10	13	1325	729	1114	-36.6	-4.0	-46	13	(1)	30	(2)	341	
69	10	16	1623	620	1413	-36.6	999.9	999	99	(99)	99	(99)	197	ELECTROJET TOO BROAD TO CAL.
67	10	4	1418	610	1205	-36.5	-5.0	-28	14	(3)	24	(5)	237	
67	10	1	1435	570	1221	-36.4	-5.5	-30	13	(3)	20	(4)	208	
67	9	28	1452	530	1238	-36.2	-4.0	-38	10	(2)	14	(2)	170	
67	9	22	1526	470	1311	-35.6	-2.8	-45	18	(4)	22	(4)	103	
68	1	26	1459	541	1225	-35.5	-3.0	-30	20	(7)	29	(10)	166	
69	7	31	1416	417	1148	-35.4	-10.0	-12	99	(99)	99	(99)	48	
69	8	8	1315	478	1048	-35.4	-3.2	-11	23	(5)	28	(6)	149	
70	7	21	1621	456	1353	-35.2	-12.2	-12	11	(4)	12	(4)	71	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	10	11	1656	546	1451	-35.1	999.9	999	99	(99)	99	(99)	139	ELECTROJET TOO BROAD TO CAL.
68	2	18	1242	431	1007	-35.0	-3.2	-55	28	(5)	30	(5)	140	
68	2	8	1341	430	1106	-34.9	-2.5	-34	23	(2)	25	(2)	37	
68	9	17	1540	466	1327	-34.5	999.9	999	99	(99)	99	(99)	101	NO ELECTROJET
68	9	21	1515	502	1305	-34.4	999.9	999	99	(99)	99	(99)	135	NO ELECTROJET
67	9	13	1613	420	1401	-34.3	-2.5	-97	20	(3)	21	(3)	12	
69	7	15	1615	460	1352	-34.3	-2.2	-13	17	(1)	20	(1)	48	
68	1	13	1611	724	1345	-34.2	-1.0	-26	4	(1)	9	(2)	22	
68	9	25	1451	545	1243	-34.2	-2.0	-35	20	(7)	30	(10)	184	
68	9	29	1425	593	1220	-33.8	999.9	999	99	(99)	99	(99)	231	NO ELECTROJET
67	9	10	1629	423	1418	-33.7	-2.5	-8	8	(1)	8	(1)	35	
68	1	29	1434	506	1206	-33.6	-1.3	-29	15	(4)	20	(5)	202	
69	10	24	1510	754	1313	-33.6	999.9	999	99	(99)	99	(99)	99	NO ELECTROJET
69	10	6	1729	484	1528	-33.4	-2.2	-55	8	(4)	10	(5)	74	
68	10	3	1359	642	1158	-33.3	999.9	999	99	(99)	99	(99)	282	MISSING OR INCOMPLETE DATA
70	7	19	1628	439	1409	-33.1	999.9	999	99	(99)	99	(99)	53	ELECTROJET NOT DISTINCT
68	10	7	1333	692	1135	-32.7	999.9	999	99	(99)	99	(99)	327	MISSING OR INCOMPLETE DATA
68	2	11	1314	422	1048	-32.6	-0.5	-107	22	(10)	23	(10)	74	
67	9	4	1658	442	1451	-32.3	999.9	999	99	(99)	99	(99)	92	MISSING OR INCOMPLETE DATA
69	8	3	1341	434	1125	-32.3	4.2	-2	14	(5)	15	(5)	87	
69	8	11	1239	513	1025	-32.2	-1.2	7	10	(1)	13	(1)	191	
69	7	26	1441	405	1227	-32.0	-0.7	17	11	(5)	11	(5)	122	
68	2	1	1409	476	1148	-31.7	0.0	-14	17	(9)	21	(11)	22	
69	10	1	1760	438	1605	-31.6	-5.4	-45	10	(2)	11	(2)	11	
69	10	19	1546	728	1350	-31.6	999.9	999	99	(99)	99	(99)	36	NO ELECTROJET
67	9	1	1713	462	1507	-31.5	999.9	999	99	(99)	99	(99)	60	ELECTROJET TOO BROAD TO CAL.
69	10	14	1617	589	1428	-31.0	999.9	999	99	(99)	99	(99)	174	ELECTROJET TOO BROAD TO CAL.
70	7	17	1635	426	1425	-31.0	-5.2	8	9	(6)	9	(6)	33	
69	7	10	1638	521	1431	-30.6	999.9	999	99	(99)	99	(99)	47	ELECTROJET TOO BROAD TO CAL.
68	2	14	1247	421	1031	-30.2	0.5	-14	5	(9)	5	(9)	103	
68	2	24	1146	468	933	-29.8	-8.0	-18	2	(1)	2	(1)	50	
68	2	4	1343	451	1130	-29.7	1.2	-57	28	(8)	32	(9)	51	
68	1	22	1459	595	1249	-29.6	1.3	-39	14	(3)	23	(5)	126	
69	10	9	1649	519	1506	-29.4	999.9	999	99	(99)	99	(99)	111	NO ELECTROJET
69	10	27	1429	804	1250	-29.3	1.6	-11	6	(2)	16	(5)	134	
69	7	29	1407	409	1204	-29.0	-5.7	-12	15	(2)	15	(2)	23	
70	7	15	1642	415	1440	-28.8	999.9	999	99	(99)	99	(99)	10	NO ELECTROJET
68	9	16	1521	459	1333	-28.5	999.9	999	99	(99)	99	(99)	88	NO ELECTROJET
67	10	9	1316	675	1137	-28.4	2.5	-12	5	(1)	10	(2)	295	
67	10	12	1259	715	1120	-28.4	0.8	-30	8	(5)	18	(11)	327	
68	9	12	1545	434	1355	-28.4	999.9	999	99	(99)	99	(99)	46	MISSING OR INCOMPLETE DATA
68	9	20	1457	492	1311	-28.4	0.0	4	5	(4)	6	(5)	126	
68	9	8	1608	421	1417	-28.2	1.5	-100	10	(4)	10	(4)	6	
68	9	24	1433	534	1248	-28.2	1.5	-25	12	(5)	17	(7)	173	
67	9	30	1408	550	1227	-28.1	999.9	999	99	(99)	99	(99)	193	ELECTROJET NOT DISTINCT
67	9	27	1425	520	1244	-27.9	1.5	-23	9	(4)	12	(5)	159	
68	1	25	1435	554	1231	-27.9	2.0	-24	14	(3)	21	(4)	155	
69	7	13	1604	482	1407	-27.9	999.9	999	99	(99)	99	(99)	22	NO ELECTROJET
70	7	26	1513	509	1315	-27.9	-8.2	-46	3	(2)	4	(2)	10	
68	9	28	1407	580	1226	-27.8	2.0	-12	9	(1)	14	(1)	216	
68	2	17	1219	427	1013	-27.7	2.3	-20	24	(3)	26	(3)	128	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	10	4	1721	463	1543	-27.7	999.9	999	99	(99)	99	(99)	48	NO ELECTROJET
67	9	24	1442	490	1300	-27.6	2.0	-45	13	(3)	16	(3)	125	
68	2	7	1317	434	1112	-27.5	2.5	-22	29	(2)	32	(2)	31	
68	10	2	1342	630	1204	-27.4	999.9	999	99	(99)	99	(99)	269	MISSING OR INCOMPLETE DATA
67	9	21	1458	460	1317	-27.3	3.0	-83	20	(2)	23	(2)	91	
68	2	27	1117	495	915	-27.1	3.2	1	16	(1)	21	(1)	80	
67	9	18	1514	440	1334	-26.9	2.5	2	13	(3)	14	(3)	61	
69	10	17	1537	636	1406	-26.8	2.6	13	2	(2)	3	(3)	11	
68	10	6	1315	679	1141	-26.7	999.9	999	99	(99)	99	(99)	318	MISSING OR INCOMPLETE DATA
68	1	28	1410	517	1213	-26.1	3.0	-24	18	(2)	25	(2)	188	
68	10	10	1249	726	1119	-26.0	999.9	999	99	(99)	99	(99)	362	MISSING OR INCOMPLETE DATA
69	8	1	1331	422	1141	-26.0	2.3	-7	8	(5)	8	(5)	59	
69	8	9	1230	489	1040	-26.0	3.3	-8	14	(2)	18	(2)	163	
70	7	24	1520	486	1330	-25.9	3.6	-20	6	(3)	7	(3)	96	
69	7	24	1431	407	1242	-25.6	3.8	4	11	(4)	11	(4)	101	
67	9	9	1601	424	1423	-25.3	3.0	-19	5	(3)	5	(3)	22	
68	2	10	1250	423	1054	-25.2	4.0	-22	10	(1)	10	(1)	63	
68	2	20	1151	440	956	-25.2	7.5	-5	10	(3)	11	(3)	6	
68	1	15	1522	696	1333	-25.1	3.5	-40	7	(2)	15	(4)	44	
69	7	16	1530	451	1344	-25.0	4.3	0	5	(2)	5	(2)	9	
69	7	8	1627	550	1447	-24.9	5.0	10	5	(1)	7	(1)	20	
67	9	6	1616	432	1440	-24.6	999.9	999	99	(99)	99	(99)	115	NO ELECTROJET
68	3	1	1048	526	858	-24.3	4.5	-25	8	(4)	11	(5)	112	
67	9	3	1631	448	1456	-23.9	999.9	999	99	(99)	99	(99)	82	NO ELECTROJET
70	7	22	1528	465	1346	-23.8	4.5	-15	8	(3)	9	(3)	81	
69	10	7	1642	494	1521	-23.7	999.9	999	99	(99)	99	(99)	88	NO ELECTROJET
69	8	4	1256	441	1118	-22.9	5.3	-13	12	(1)	13	(1)	101	
69	8	12	1154	526	1018	-22.8	5.3	-28	9	(2)	12	(2)	204	
69	10	20	1457	685	1343	-22.6	4.6	3	3	(2)	6	(4)	49	
68	9	11	1526	430	1401	-22.3	5.5	-25	18	(3)	19	(3)	38	
68	9	19	1439	483	1316	-22.3	5.0	-22	10	(2)	12	(2)	111	
68	2	3	1319	459	1136	-22.2	5.0	-43	31	(3)	36	(3)	42	
69	7	19	1455	428	1321	-22.2	5.8	4	9	(2)	9	(2)	49	
68	9	23	1414	523	1254	-22.1	5.0	-55	10	(1)	14	(1)	159	
68	1	21	1435	609	1256	-22.0	5.5	-38	14	(3)	24	(5)	115	
69	10	2	1714	445	1558	-22.0	4.6	-73	6	(3)	6	(3)	21	
68	10	1	1324	617	1209	-21.4	999.9	999	99	(99)	99	(99)	256	MISSING OR INCOMPLETE DATA
69	10	15	1530	604	1421	-21.3	999.9	999	99	(99)	99	(99)	184	NO ELECTROJET
68	10	5	1258	667	1147	-20.8	6.5	-36	13	(4)	26	(8)	308	
68	2	16	1156	424	1019	-20.4	6.5	-27	15	(2)	16	(2)	120	
67	10	11	1232	702	1125	-20.3	6.5	-34	8	(1)	17	(2)	313	
67	10	5	1307	620	1159	-20.2	6.0	-23	7	(2)	12	(3)	248	
67	10	8	1250	660	1142	-20.2	7.0	-17	14	(8)	27	(15)	281	
67	10	14	1214	742	1109	-20.2	6.0	-24	12	(2)	28	(4)	350	
67	10	2	1324	580	1216	-20.1	7.5	-25	2	(1)	3	(1)	218	
68	2	6	1258	439	1118	-20.1	6.6	-27	24	(7)	26	(7)	22	
68	10	9	1231	715	1124	-20.1	999.9	999	99	(99)	99	(99)	351	MISSING OR INCOMPLETE DATA
67	9	29	1342	540	1233	-19.9	7.0	-70	12	(3)	17	(4)	182	
68	2	26	1054	485	921	-19.8	7.0	2	8	(3)	10	(3)	66	
69	8	7	1220	468	1055	-19.8	7.8	18	10	(7)	12	(8)	136	
69	7	30	1322	413	1156	-19.7	6.9	-4	14	(7)	14	(7)	35	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP.	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	10	10	1603	532	1458	-19.7	999.9	999	99	(99)	99	(99)	124	NO ELECTROJET
67	9	26	1358	510	1249	-19.6	6.3	-28	18	(2)	24	(2)	147	
67	9	23	1415	480	1306	-19.3	6.1	-44	22	(3)	27	(3)	116	
69	7	22	1421	413	1258	-19.2	7.4	5	12	(4)	12	(4)	84	
67	9	20	1431	460	1323	-19.0	6.5	-64	21	(8)	25	(9)	79	
67	9	17	1447	440	1339	-18.6	7.3	-14	14	(6)	15	(6)	51	
68	1	27	1346	530	1219	-18.5	7.0	-29	19	(4)	27	(5)	175	
69	10	23	1417	736	1321	-18.4	999.9	999	99	(99)	99	(99)	84	MISSING OR INCOMPLETE DATA
67	9	14	1503	430	1356	-18.1	9.5	-29	5	(2)	5	(2)	23	
69	10	5	1635	473	1536	-18.0	7.0	-2	7	(4)	8	(4)	61	
68	2	9	1227	426	1100	-17.9	7.5	-51	18	(5)	19	(5)	50	
68	2	19	1128	435	1002	-17.9	8.5	-22	16	(2)	17	(2)	153	
67	9	11	1518	422	1412	-17.5	7.0	-16	15	(2)	16	(2)	43	
70	7	16	1549	420	1433	-17.5	999.9	999	99	(99)	99	(99)	21	NO ELECTROJET
68	1	14	1458	711	1339	-17.4	7.0	-24	3	(1)	6	(2)	33	
69	10	18	1451	652	1358	-17.1	9.3	-9	8	(4)	15	(7)	25	
67	9	8	1533	426	1429	-16.9	8.0	-12	10	(5)	10	(5)	9	
68	1	30	1321	496	1201	-16.7	7.8	-43	25	(3)	32	(3)	209	
69	8	2	1246	427	1133	-16.6	8.3	-2	17	(10)	18	(10)	72	
69	8	10	1145	501	1033	-16.6	9.0	-5	9	(6)	12	(8)	176	
69	7	25	1347	406	1235	-16.3	9.3	2	11	(5)	11	(5)	113	
67	9	5	1548	437	1446	-16.2	7.3	-5	6	(1)	6	(1)	102	
68	9	14	1444	445	1344	-16.2	8.5	-41	14	(4)	15	(4)	71	
68	9	10	1508	426	1406	-16.1	7.8	-20	11	(1)	11	(1)	25	
68	9	22	1356	512	1300	-16.1	9.8	-12	14	(6)	19	(8)	146	
68	1	17	1434	667	1321	-15.9	7.5	-30	7	(1)	14	(2)	71	
68	9	26	1331	556	1237	-15.8	8.9	-12	14	(5)	21	(7)	198	
69	7	17	1445	443	1337	-15.7	8.8	-12	16	(2)	18	(2)	23	
69	10	13	1524	574	1436	-15.7	7.6	-8	3	(1)	4	(1)	162	
68	2	12	1200	421	1043	-15.5	8.0	-47	39	(1)	41	(1)	85	
67	9	2	1603	455	1502	-15.4	9.5	-33	8	(2)	9	(2)	71	
68	9	30	1306	604	1215	-15.4	9.5	-4	10	(5)	17	(8)	245	
68	2	22	1100	453	944	-15.3	9.5	-13	9	(1)	10	(1)	27	
68	10	4	1240	654	1153	-14.9	9.0	-36	11	(2)	21	(3)	295	
69	7	9	1543	536	1439	-14.8	8.8	-12	13	(2)	19	(2)	33	
68	2	2	1256	467	1142	-14.7	8.0	-43	32	(2)	38	(2)	35	
70	7	25	1427	497	1323	-14.5	10.0	-67	10	(7)	13	(9)	103	
68	1	20	1410	624	1302	-14.3	8.0	-49	7	(4)	12	(7)	101	
68	10	8	1213	703	1130	-14.2	9.5	-28	16	(2)	35	(4)	340	
69	10	26	1336	787	1258	-14.0	9.6	-11	4	(3)	10	(7)	122	
69	8	13	1108	539	1010	-13.4	8.7	-17	13	(2)	19	(2)	215	
69	7	28	1312	407	1212	-13.3	8.8	-40	38	(1)	38	(1)	9	
68	2	15	1132	422	1025	-13.1	8.7	-20	27	(5)	28	(5)	112	
69	10	21	1410	702	1336	-12.9	9.6	-3	7	(2)	15	(4)	59	
69	7	20	1411	422	1313	-12.8	9.3	12	23	(7)	24	(7)	62	
68	1	23	1346	582	1243	-12.7	9.6	-19	15	(4)	24	(6)	136	
68	2	5	1230	445	1124	-12.7	8.3	-53	38	(1)	43	(1)	9	
68	2	25	1031	476	927	-12.6	9.2	-13	20	(1)	24	(1)	56	
69	10	3	1628	454	1551	-12.3	8.7	-68	14	(6)	16	(7)	35	
67	10	10	1205	688	1131	-12.1	7.5	-70	8	(5)	16	(10)	305	
67	10	13	1147	728	1114	-12.1	8.0	-41	6	(4)	13	(9)	340	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	7	12	1509	495	1416	-12.1	8.8	-11	22	(2)	28	(2)	10	
67	10	4	1240	610	1205	-12.0	8.0	-22	8	(1)	14	(1)	236	
67	10	1	1258	570	1222	-11.8	9.5	-31	7	(1)	11	(1)	207	
69	10	16	1444	619	1414	-11.5	8.6	4	6	(1)	10	(1)	196	
67	9	22	1348	470	1312	-11.1	8.5	-50	26	(6)	31	(7)	102	
67	9	19	1404	450	1328	-10.7	8.5	-33	20	(5)	23	(5)	72	
68	2	18	1105	431	1008	-10.6	9.0	-47	43	(2)	47	(2)	139	
69	8	8	1135	478	1048	-10.4	9.3	-13	21	(3)	26	(3)	148	
69	7	31	1236	417	1149	-10.3	9.1	-10	13	(2)	13	(2)	47	
68	9	13	1426	439	1350	-10.1	8.9	-61	21	(3)	23	(3)	58	
68	9	17	1402	466	1328	-10.1	7.5	-38	33	(2)	40	(2)	100	
68	9	21	1338	502	1305	-10.0	9.0	-9	14	(1)	18	(1)	134	
69	10	11	1517	545	1451	-10.0	8.6	-27	11	(4)	16	(6)	138	
68	2	28	1003	504	910	-9.9	9.0	8	23	(5)	31	(6)	92	
69	7	23	1336	409	1250	-9.9	8.8	-5	27	(1)	27	(1)	91	
68	9	25	1313	544	1243	-9.8	9.0	-26	20	(1)	30	(1)	183	
67	9	13	1435	420	1401	-9.7	8.5	-38	26	(1)	27	(1)	11	
68	9	29	1248	592	1221	-9.4	9.5	-3	14	(4)	23	(6)	230	
69	7	15	1435	461	1352	-9.3	8.8	2	5	(2)	5	(2)	47	
67	9	10	1451	422	1418	-9.1	8.8	-13	16	(3)	17	(3)	34	
68	1	29	1257	507	1207	-9.1	8.3	-38	23	(1)	31	(1)	201	
68	10	3	1222	642	1158	-8.9	999.9	999	99	(99)	99	(99)	281	MISSING OR INCOMPLETE DATA
69	10	24	1330	753	1313	-8.6	9.6	-3	2	(0)	4	(0)	98	
69	10	6	1549	483	1528	-8.4	8.4	-20	15	(6)	19	(7)	73	
68	1	16	1409	682	1327	-8.3	9.0	-21	7	(2)	14	(4)	57	
68	10	7	1156	691	1136	-8.3	9.5	-22	11	(1)	23	(2)	326	
70	7	19	1449	439	1410	-8.2	9.2	-3	19	(4)	21	(4)	52	
67	9	4	1521	442	1451	-7.8	8.5	-12	7	(4)	7	(4)	91	
69	10	19	1403	652	1351	-7.5	999.9	999	99	(99)	99	(99)	35	NO ELECTROJET
69	8	3	1201	433	1126	-7.3	10.0	10	5	(5)	5	(5)	86	
68	2	1	1231	476	1148	-7.2	9.5	-34	32	(3)	39	(3)	21	
69	8	11	1059	512	1026	-7.2	9.8	0	14	(4)	19	(5)	190	
67	9	1	1535	463	1508	-7.0	9.0	-16	7	(1)	8	(1)	59	
69	7	26	1302	405	1227	-7.0	9.8	48	13	(6)	13	(6)	121	
69	10	1	1620	437	1606	-6.6	9.0	-40	15	(8)	16	(8)	10	
69	7	18	1404	435	1329	-6.4	9.8	-20	24	(1)	26	(1)	34	
69	10	14	1437	588	1429	-6.0	8.8	0	8	(4)	13	(6)	173	
68	2	14	1108	421	1009	-5.7	9.5	-24	28	(2)	29	(2)	102	
69	7	10	1458	522	1431	-5.6	9.2	-18	9	(3)	12	(4)	46	
68	2	24	1008	467	933	-5.3	9.5	-30	32	(1)	38	(1)	49	
68	2	4	1206	452	1131	-5.2	9.3	-60	27	(1)	31	(1)	50	
70	7	28	1326	534	1300	-5.0	10.8	-8	5	(3)	7	(4)	34	
69	10	9	1510	518	1506	-4.4	9.0	-5	7	(6)	9	(8)	110	
69	8	6	1126	458	1103	-4.1	9.8	-19	22	(4)	26	(4)	128	
68	9	16	1344	458	1333	-4.0	9.5	-33	15	(1)	17	(1)	87	
68	9	20	1320	492	1311	-4.0	9.5	-3	10	(1)	13	(1)	125	
67	10	9	1139	674	1137	-3.9	9.0	-15	8	(2)	16	(4)	294	
67	10	12	1121	715	1120	-3.9	9.5	-31	8	(3)	18	(6)	326	
70	7	15	1503	414	1441	-3.9	10.0	8	11	(2)	11	(2)	9	
68	9	8	1430	421	1418	-3.8	9.5	-90	18	(4)	19	(4)	5	
68	9	24	1255	533	1248	-3.8	9.6	-27	18	(3)	26	(4)	172	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP.	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
67	10	3	1214	590	1211	-3.7	10.0	-24	8	(2)	13	(3)	226	
69	7	21	1326	417	1306	-3.5	9.3	24	4	(2)	4	(2)	71	
68	1	25	1257	555	1231	-3.4	10.0	-11	10	(2)	15	(3)	154	
68	2	17	1041	427	1014	-3.2	9.5	-37	40	(2)	43	(2)	127	
69	10	22	1324	718	1328	-3.1	9.6	-12	3	(1)	6	(2)	72	
68	2	7	1139	434	1113	-3.0	9.6	-37	39	(4)	43	(4)	30	
68	10	2	1205	629	1204	-3.0	9.5	-68	14	(4)	25	(7)	268	
69	7	13	1424	486	1408	-2.9	9.8	-4	11	(2)	14	(2)	21	
67	9	21	1321	460	1317	-2.8	9.5	-102	20	(5)	23	(5)	90	
69	10	4	1542	462	1543	-2.7	9.6	-16	6	(2)	7	(2)	47	
68	2	27	940	494	916	-2.6	10.0	1	13	(1)	17	(1)	79	
68	10	6	1138	678	1142	-2.3	10.0	-2	16	(2)	33	(4)	317	
68	1	12	1408	739	1352	-2.0	9.0	-22	2	(1)	4	(2)	9	
67	9	15	1352	430	1351	-1.9	10.0	-18	14	(2)	15	(2)	34	
69	10	17	1357	635	1406	-1.8	9.6	4	4	(2)	7	(3)	10	
68	1	28	1233	518	1213	-1.6	10.0	-30	14	(2)	19	(2)	187	
68	10	10	1111	726	1119	-1.6	10.5	-16	9	(2)	20	(4)	361	
67	9	12	1408	423	1407	-1.3	10.0	-10	20	(1)	21	(1)	50	
69	8	1	1152	421	1141	-1.0	10.3	-24	18	(7)	19	(7)	58	
69	8	9	1050	488	1041	-1.0	10.5	-4	8	(6)	10	(7)	162	
70	7	24	1341	485	1331	-1.0	10.2	-26	14	(8)	17	(10)	95	
68	2	10	1113	424	1055	-0.8	10.0	-30	20	(3)	21	(3)	62	
67	9	9	1423	424	1424	-0.7	10.0	-23	6	(1)	6	(1)	21	
68	2	20	1013	440	956	-0.7	999.9	999	99	(99)	99	(99)	5	MISSING OR INCOMPLETE DATA
68	1	15	1345	697	1333	-0.6	9.0	-31	5	(2)	10	(4)	43	
69	7	24	1252	407	1243	-0.6	9.8	-13	27	(4)	27	(4)	100	
69	10	12	1431	558	1444	-0.3	999.9	999	99	(99)	99	(99)	150	ELECTROJET TOO BROAD TO CAL.
67	9	6	1438	432	1440	-0.1	10.0	5	2	(1)	2	(1)	114	
69	7	16	1350	452	1345	0.0	11.3	2	8	(1)	9	(1)	8	
68	3	1	911	525	859	0.1	10.0	-24	16	(2)	22	(2)	111	
67	9	3	1453	448	1457	0.6	9.5	-11	2	(1)	2	(1)	81	
68	1	18	1321	654	1315	0.8	10.0	-16	7	(1)	13	(1)	81	
69	7	8	1448	551	1447	0.9	10.3	-1	10	(2)	15	(3)	19	
69	10	25	1243	770	1306	1.1	9.6	-13	7	(0)	17	(0)	110	
69	10	7	1503	494	1521	1.2	9.8	-16	11	(2)	14	(2)	87	
68	2	23	945	459	939	1.8	10.1	-13	20	(1)	23	(1)	39	
68	9	15	1326	451	1339	2.0	999.9	999	99	(99)	99	(99)	76	MISSING OR INCOMPLETE DATA
68	9	19	1302	482	1317	2.0	10.5	-22	15	(3)	19	(3)	110	
69	8	4	1116	441	1119	2.0	10.0	-18	14	(4)	15	(4)	100	
68	9	11	1349	429	1401	2.1	10.1	-31	22	(2)	23	(2)	37	
68	9	23	1237	522	1254	2.2	10.3	-25	9	(1)	12	(1)	158	
69	8	12	1014	525	1018	2.2	11.3	-13	8	(6)	11	(8)	203	
69	7	27	1216	406	1220	2.3	10.3	-62	20	(0)	20	(0)	134	
69	10	20	1317	684	1344	2.3	10.3	0	4	(0)	8	(0)	48	
68	1	21	1257	610	1256	2.4	11.0	-26	5	(1)	8	(1)	114	
69	7	19	1316	428	1321	2.8	10.3	2	8	(1)	8	(1)	48	
68	10	1	1147	616	1210	2.9	10.0	-9	6	(2)	10	(3)	255	
69	10	2	1534	445	1558	3.0	9.6	-101	13	(7)	14	(7)	20	
70	7	20	1356	447	1402	3.1	10.4	1	14	(3)	16	(3)	61	
68	10	5	1121	666	1147	3.5	11.0	-41	14	(3)	28	(6)	307	
69	7	11	1414	508	1424	3.6	10.2	7	5	(1)	6	(1)	57	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
67	10	8	1112	660	1143	4.2	10.9	1	6	(3)	11	(5)	280	
67	10	14	1036	741	1109	4.2	11.0	-22	6	(3)	14	(7)	349	
68	10	9	1054	714	1125	4.2	11.0	-14	6	(3)	13	(6)	350	
67	10	5	1129	620	1200	4.3	10.0	-18	8	(2)	14	(3)	247	
68	2	6	1116	439	1119	4.3	10.1	-34	22	(4)	24	(4)	21	
67	10	2	1147	580	1216	4.4	11.0	-24	4	(3)	6	(4)	217	
68	2	26	917	484	922	4.5	10.8	3	8	(4)	10	(5)	65	
67	9	29	1204	540	1233	4.6	10.5	-67	15	(2)	22	(2)	181	
67	9	26	1220	510	1250	4.8	10.0	-35	17	(2)	23	(2)	146	
67	9	23	1237	480	1306	5.1	10.0	-50	23	(4)	29	(5)	115	
69	10	10	1424	531	1459	5.2	999.9	999	99	(99)	99	(99)	123	ELECTROJET TOO BROAD TO CAL.
70	7	18	1403	431	1418	5.2	10.3	0	7	(5)	7	(5)	42	
69	7	30	1142	412	1157	5.3	10.3	-9	16	(5)	16	(5)	34	
67	9	17	1309	440	1340	5.9	10.0	-8	7	(2)	7	(2)	50	
68	1	27	1208	531	1219	5.9	10.0	-16	11	(2)	15	(2)	174	
67	9	14	1325	430	1355	6.4	11.2	-55	9	(7)	9	(7)	22	
69	7	14	1340	472	1400	6.4	10.8	-2	8	(2)	9	(2)	35	
68	2	9	1049	426	1101	6.5	10.5	-54	99	(99)	99	(99)	49	AMP. TOO BROAD TO CALCULATE
68	2	19	950	435	1002	6.5	10.5	-29	21	(2)	23	(2)	152	
69	10	23	1237	735	1321	6.5	999.9	999	99	(99)	99	(99)	83	NO ELECTROJET
69	8	7	1041	467	1056	6.6	11.0	12	8	(6)	9	(7)	135	
67	9	11	1340	422	1413	6.9	10.0	-9	14	(5)	14	(5)	42	
69	10	5	1456	472	1536	6.9	9.6	-6	5	(3)	6	(3)	60	
68	2	29	848	514	904	7.3	10.0	-36	10	(3)	13	(4)	101	
70	7	16	1410	419	1433	7.3	11.3	-1	4	(1)	4	(1)	20	
69	10	18	1311	651	1359	7.8	999.9	999	99	(99)	99	(99)	24	NO ELECTROJET
68	9	14	1307	445	1345	8.1	10.3	-63	20	(7)	22	(7)	70	
68	9	10	1330	426	1407	8.2	10.0	-17	8	(2)	8	(2)	24	
68	9	22	1219	511	1300	8.2	10.5	-20	14	(4)	19	(5)	145	
67	9	5	1410	437	1446	8.3	11.0	0	3	(1)	3	(1)	101	
69	8	2	1106	427	1134	8.3	9.8	-10	16	(4)	17	(4)	71	
70	7	27	1241	520	1308	8.3	10.8	-39	7	(2)	9	(2)	21	
69	8	10	1004	500	1033	8.4	11.0	-10	7	(3)	9	(4)	175	
68	9	26	1154	555	1238	8.5	10.7	-7	11	(5)	16	(7)	197	
69	7	25	1207	406	1235	8.6	10.8	-2	9	(1)	9	(1)	112	
68	2	12	1022	421	1043	8.9	11.5	-46	26	(3)	27	(3)	84	
68	9	30	1129	604	1216	8.9	10.0	-3	7	(3)	12	(5)	244	
67	9	2	1425	455	1503	9.0	10.5	-28	9	(2)	10	(2)	70	
68	2	22	922	452	945	9.1	10.7	-16	16	(2)	18	(2)	26	
69	7	17	1305	443	1337	9.2	10.8	-14	14	(1)	15	(1)	22	
69	10	13	1344	572	1437	9.3	10.6	-3	2	(1)	3	(1)	161	
68	10	4	1103	653	1153	9.4	10.5	-34	9	(2)	17	(3)	294	
68	2	2	1118	468	1143	9.7	10.6	-28	19	(2)	23	(2)	34	
68	1	20	1233	625	1302	10.1	10.0	-25	4	(2)	7	(3)	100	
68	10	8	1036	702	1131	10.1	11.0	-22	10	(1)	21	(2)	339	
69	7	9	1403	537	1440	10.1	10.8	-16	10	(1)	14	(1)	32	
70	7	25	1248	496	1323	10.3	999.9	999	99	(99)	99	(99)	102	ELECTROJET TOO BROAD TO CAL.
69	10	8	1417	505	1514	10.8	10.8	-7	5	(1)	6	(1)	99	
69	10	26	1157	786	1257	10.9	10.0	-3	2	(1)	5	(2)	121	
68	2	15	955	422	1026	11.3	10.5	-29	23	(2)	24	(2)	111	
69	8	5	1031	448	1111	11.4	10.8	-23	15	(5)	17	(5)	114	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	7	28	1132	407	1212	11.6	10.8	-47	27	(1)	27	(1)	8	
69	8	13	929	538	1011	11.6	11.0	-21	7	(4)	10	(5)	214	
68	2	5	1052	445	1125	11.7	10.5	-40	15	(3)	17	(3)	8	
69	7	20	1231	422	1314	12.1	10.8	18	20	(3)	21	(3)	61	
67	10	13	1010	727	1115	12.4	10.0	-36	6	(3)	13	(6)	339	
70	7	23	1256	474	1339	12.4	11.0	-18	6	(3)	7	(3)	86	
67	10	4	1103	600	1205	12.5	12.0	-16	2	(1)	3	(1)	235	
69	10	3	1448	453	1551	12.6	11.0	-71	5	(1)	5	(1)	34	
67	9	28	1137	530	1239	12.8	10.0	-58	7	(3)	10	(4)	169	
69	7	12	1329	496	1416	12.9	10.8	0	8	(1)	10	(1)	9	
67	9	22	1210	470	1312	13.4	10.2	-55	22	(5)	27	(6)	101	
69	10	16	1304	618	1414	13.4	11.0	3	4	(0)	7	(0)	195	
68	1	26	1144	543	1225	13.5	10.9	-15	9	(1)	13	(1)	165	
67	9	19	1226	450	1329	13.8	11.0	-24	10	(2)	11	(2)	71	
68	2	18	927	431	1008	13.8	10.2	-46	21	(5)	23	(5)	138	
68	2	8	1026	430	1107	13.9	10.0	-22	16	(2)	17	(2)	36	
67	9	16	1242	430	1345	14.2	10.5	-28	11	(2)	12	(2)	42	
68	9	13	1249	439	1350	14.2	10.0	-41	3	(1)	3	(1)	57	
68	9	17	1225	465	1328	14.2	10.5	-27	12	(2)	14	(2)	99	
70	7	21	1302	445	1355	14.2	10.8	-27	5	(3)	5	(3)	70	
68	2	28	825	504	910	14.5	999.9	999	99	(99)	99	(99)	91	NO ELECTROJET
69	7	31	1057	416	1149	14.6	3.1	-19	99	(99)	99	(99)	46	
69	8	8	956	477	1049	14.6	11.0	-8	7	(2)	8	(2)	147	
67	9	13	1258	420	1402	14.7	11.0	-19	6	(1)	6	(1)	10	
68	9	29	1111	591	1221	14.9	10.6	-4	12	(1)	20	(1)	229	
69	10	11	1337	544	1452	14.9	999.9	999	99	(99)	99	(99)	137	ELECTROJET TOO BROAD TO CAL.
67	9	10	1313	423	1418	15.3	10.1	-10	10	(4)	10	(4)	33	
68	1	29	1119	507	1207	15.3	10.0	-26	4	(2)	5	(2)	200	
69	7	15	1255	462	1353	15.7	999.9	999	99	(99)	99	(99)	46	NO ELECTROJET
68	10	7	1019	690	1136	16.0	999.9	999	99	(99)	99	(99)	325	MISSING OR INCOMPLETE DATA
68	2	11	959	422	1049	16.3	10.5	-93	9	(12)	9	(12)	73	
69	10	24	1151	752	1313	16.3	10.6	-19	2	(1)	4	(2)	97	
68	2	21	859	446	951	16.4	999.9	999	99	(99)	99	(99)	15	MISSING OR INCOMPLETE DATA
69	10	6	1409	482	1529	16.5	11.0	-28	4	(2)	5	(2)	72	
67	9	4	1343	442	1452	16.7	999.9	999	99	(99)	99	(99)	90	MISSING OR INCOMPLETE DATA
68	2	1	1054	477	1149	17.2	9.5	999	99	(99)	99	(99)	20	MISSING OR INCOMPLETE DATA
67	9	1	1357	463	1508	17.5	999.9	999	99	(99)	99	(99)	58	ELECTROJET TOO BROAD TO CAL.
69	8	3	1022	433	1127	17.7	999.9	999	99	(99)	99	(99)	85	MISSING OR INCOMPLETE DATA
69	8	11	920	511	1026	17.8	8.3	-3	11	(7)	15	(9)	189	
69	7	26	1122	405	1228	18.0	10.3	23	2	(1)	2	(1)	120	
69	10	1	1441	437	1606	18.4	4.7	-48	99	(99)	99	(99)	9	
69	7	18	1221	435	1330	18.5	10.3	-19	19	(2)	21	(2)	33	
70	7	17	1317	425	1426	18.7	5.8	-7	20	(3)	21	(3)	32	
69	10	14	1258	587	1429	19.0	999.9	999	99	(99)	99	(99)	172	NO ELECTROJET
69	7	10	1319	525	1432	19.3	999.9	999	99	(99)	99	(99)	45	NO ELECTROJET
70	7	28	1147	533	1300	19.8	5.8	-24	12	(4)	17	(5)	33	
68	9	16	1207	458	1334	20.3	999.9	999	99	(99)	99	(99)	86	NO ELECTROJET
68	9	20	1143	491	1311	20.3	6.0	-14	13	(1)	16	(1)	124	
68	9	8	1253	421	1418	20.5	999.9	999	99	(99)	99	(99)	4	NO ELECTROJET
69	10	9	1330	517	1507	20.5	6.0	-14	14	(1)	19	(1)	109	
67	10	6	1018	630	1154	20.6	8.5	-30	13	(2)	24	(3)	259	

YR.	MON.	DAY.	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
67	10	9	1001	673	1137	20.6	8.5	-18	9	(1)	18	(2)	293	
67	10	12	943	714	1121	20.6	6.9	-32	3	(2)	6	(4)	325	
67	10	3	1036	590	1211	20.7	6.5	-19	9	(2)	15	(3)	225	
69	10	27	1110	803	1251	20.7	8.0	-9	4	(2)	10	(5)	133	
69	8	6	946	457	1104	20.8	9.3	-25	23	(6)	27	(7)	127	
67	9	30	1053	550	1228	20.9	999.9	999	99	(99)	99	(99)	192	ELECTROJET NOT DISTINCT
68	9	28	1053	579	1227	20.9	8.8	-26	18	(2)	29	(3)	215	
69	7	29	1047	409	1205	21.0	9.8	-26	22	(8)	22	(8)	22	
67	9	27	1110	520	1245	21.1	8.0	-22	13	(2)	18	(2)	158	
68	10	2	1027	628	1205	21.3	8.0	-71	19	(3)	35	(5)	267	
69	7	21	1147	417	1306	21.4	9.8	10	6	(5)	6	(5)	70	
68	2	27	802	493	916	21.8	7.0	3	14	(2)	18	(2)	78	
69	10	22	1144	717	1329	21.8	8.0	-18	6	(1)	13	(2)	71	
70	7	26	1155	508	1316	21.8	8.3	-87	14	(5)	19	(6)	9	
67	9	18	1159	440	1334	22.1	9.0	-15	20	(2)	22	(2)	60	
69	7	13	1245	484	1409	22.1	5.8	-4	99	(99)	99	(99)	20	AMP. TOO BROAD TO CALCULATE
69	10	4	1402	462	1544	22.3	999.9	999	99	(99)	99	(99)	46	NO ELECTROJET
67	9	15	1215	430	1351	22.6	8.0	-22	14	(1)	15	(1)	33	
68	10	10	934	725	1119	22.7	9.0	-22	7	(2)	16	(4)	360	
68	1	28	1055	519	1213	22.8	9.0	-23	11	(1)	15	(1)	186	
67	9	12	1230	423	1407	23.1	999.9	999	99	(99)	99	(99)	49	NO ELECTROJET
69	10	17	1217	634	1407	23.1	8.6	-5	8	(2)	14	(3)	9	
68	2	10	935	424	1055	23.6	9.5	-50	23	(1)	24	(1)	61	
67	9	9	1245	424	1424	23.7	6.0	-40	11	(1)	11	(1)	20	
68	2	20	836	440	957	23.7	9.3	-42	24	(4)	27	(4)	4	
70	7	24	1202	485	1331	23.8	10.6	-37	17	(10)	21	(12)	94	
69	8	1	1012	421	1142	24.0	8.3	-22	12	(8)	12	(8)	57	
69	8	9	911	487	1041	24.0	7.8	-10	6	(4)	7	(5)	161	
67	9	6	1300	433	1441	24.4	999.9	999	99	(99)	99	(99)	113	NO ELECTROJET
68	3	1	733	524	859	24.6	8.8	-25	14	(2)	19	(2)	110	
69	10	12	1251	558	1444	24.6	7.0	-40	11	(4)	17	(6)	149	
69	7	8	1308	552	1448	25.9	999.9	999	99	(99)	99	(99)	18	MISSING OR INCOMPLETE DATA
70	7	22	1210	464	1347	25.9	9.0	-24	9	(3)	10	(3)	80	
68	2	13	908	420	1038	26.0	9.5	-34	9	(1)	9	(1)	93	
69	10	25	1104	768	1306	26.1	9.6	-16	6	(1)	15	(2)	109	
69	10	7	1323	493	1522	26.2	9.6	-26	14	(4)	18	(5)	86	
68	2	23	808	459	939	26.3	9.5	-14	15	(3)	17	(3)	38	
68	9	19	1124	482	1317	26.4	9.2	-24	13	(1)	16	(1)	109	
68	9	11	1212	429	1402	26.5	999.9	999	99	(99)	99	(99)	36	NO ELECTROJET
68	9	23	1100	521	1255	26.6	9.8	-39	9	(2)	12	(2)	157	
68	2	3	1004	460	1137	26.7	9.2	-45	15	(5)	17	(5)	41	
68	9	27	1035	567	1233	26.9	9.0	-12	10	(2)	15	(3)	204	
69	8	4	937	440	1119	27.1	9.8	-48	23	(6)	25	(6)	99	
69	8	12	834	524	1019	27.2	9.0	-16	1	(1)	1	(1)	202	
69	7	27	1037	406	1220	27.3	9.8	-58	18	(12)	18	(12)	133	
69	10	20	1138	683	1344	27.3	9.6	0	3	(1)	6	(2)	47	
69	7	19	1136	429	1322	27.8	9.8	-3	10	(4)	10	(4)	47	
70	7	20	1217	446	1403	28.0	9.8	-15	17	(4)	19	(4)	60	
67	10	8	934	659	1143	28.7	9.5	9	5	(2)	9	(3)	279	
69	10	15	1211	602	1422	28.7	9.0	-4	6	(1)	10	(1)	183	
68	2	6	938	440	1119	28.8	9.0	-32	22	(1)	24	(1)	20	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
67	10	2	1009	580	1217	28.9	9.0	-27	7	(2)	11	(3)	216	
68	2	26	739	484	922	29.0	999.9	999	99	(99)	99	(99)	64	NO ELECTROJET
67	9	26	1043	510	1250	29.4	9.0	-27	5	(4)	6	(5)	145	
67	9	23	1059	480	1307	29.7	8.0	-37	5	(3)	6	(3)	114	
67	9	20	1116	450	1323	30.0	10.2	-77	17	(5)	19	(5)	78	
69	7	30	1006	411	1157	30.2	10.0	2	0	(1)	0	(1)	33	
69	8	7	901	466	1056	30.2	10.0	6	6	(3)	7	(3)	134	
69	10	10	1244	530	1500	30.2	999.9	999	99	(99)	99	(99)	122	ELECTROJET TOO BROAD TO CAL.
69	7	22	1102	413	1259	30.8	10.2	0	10	(6)	10	(6)	83	
67	9	14	1147	430	1355	30.9	8.0	-32	4	(2)	4	(2)	21	
68	2	9	912	427	1101	31.0	9.5	-63	26	(3)	28	(3)	48	
68	2	19	813	435	1002	31.0	9.5	-48	30	(1)	33	(1)	151	
69	7	14	1200	473	1401	31.4	10.3	-21	8	(1)	9	(1)	34	
68	1	14	1142	713	1340	31.5	8.0	-23	6	(2)	13	(4)	31	
69	10	5	1316	471	1537	31.9	9.0	-17	10	(1)	12	(1)	59	
69	10	23	1059	769	1322	32.0	999.9	999	99	(99)	99	(99)	82	MISSING OR INCOMPLETE DATA
67	9	8	1218	426	1430	32.1	999.9	999	99	(99)	99	(99)	8	NO ELECTROJET
70	7	16	1231	419	1434	32.2	9.5	-25	12	(1)	12	(1)	19	
68	9	14	1130	444	1345	32.5	9.5	-69	17	(2)	19	(2)	69	
68	9	10	1153	426	1407	32.6	9.0	-13	5	(2)	5	(2)	23	
68	9	22	1042	511	1301	32.6	10.0	-16	17	(2)	23	(2)	144	
68	9	26	1017	555	1238	32.9	10.0	-18	17	(1)	26	(1)	196	
69	10	18	1133	681	1401	33.2	999.9	999	99	(99)	99	(99)	23	MISSING OR INCOMPLETE DATA
70	7	27	1102	520	1308	33.2	8.8	-60	99	(99)	99	(99)	20	AMP. TOO BROAD TO CALCULATE
68	9	30	952	603	1216	33.3	9.0	-4	9	(1)	15	(1)	243	
69	8	10	825	499	1034	33.4	10.0	-25	10	(6)	13	(7)	174	
67	9	2	1247	456	1503	33.6	9.0	-37	4	(2)	4	(2)	69	
68	2	22	745	452	945	33.6	9.7	-21	14	(1)	16	(1)	25	
69	7	25	1027	406	1236	33.7	9.3	-8	8	(2)	8	(2)	111	
68	10	4	926	653	1154	33.8	10.0	-40	12	(1)	23	(1)	293	
68	2	2	940	468	1143	34.2	10.0	-55	22	(5)	26	(6)	33	
69	7	17	1126	444	1338	34.3	9.6	-28	23	(1)	26	(1)	21	
69	10	13	1205	572	1437	34.3	999.9	999	99	(99)	99	(99)	160	ELECTROJET TOO BROAD TO CAL.
68	10	8	859	701	1131	34.5	9.5	-22	10	(1)	21	(2)	338	
68	1	20	1055	626	1303	34.6	10.0	-28	5	(2)	9	(3)	99	
69	7	9	1224	538	1440	35.2	9.3	-24	12	(1)	17	(1)	31	
68	2	15	817	422	1026	35.8	11.3	9	19	(3)	20	(3)	110	
69	10	8	1237	504	1514	35.9	9.0	-11	8	(1)	10	(1)	98	
69	10	26	1017	785	1258	35.9	7.6	-5	1	(1)	2	(2)	120	
68	2	5	914	446	1125	36.2	9.5	-41	14	(2)	16	(2)	7	
69	8	5	852	448	1112	36.5	9.3	-14	4	(1)	4	(1)	113	
67	10	7	907	640	1149	36.9	9.0	-36	17	(1)	32	(1)	267	
67	10	13	832	726	1115	36.9	8.8	-34	7	(1)	16	(2)	338	
67	10	4	924	600	1206	37.0	6.0	-16	2	(1)	3	(1)	234	
69	10	21	1051	700	1337	37.1	999.9	999	99	(99)	99	(99)	58	NO ELECTROJET
67	10	1	942	570	1223	37.2	8.0	999	99	(99)	99	(99)	205	ELECTROJET TOO BROAD TO CAL.
67	9	28	959	530	1239	37.4	10.0	-72	15	(6)	21	(8)	168	
69	10	3	1309	452	1552	37.6	8.6	-78	8	(2)	9	(2)	33	
67	9	22	1032	470	1313	37.9	8.5	-60	20	(5)	24	(6)	100	
69	7	12	1150	497	1417	37.9	8.8	-9	9	(1)	11	(1)	8	
67	9	19	1048	450	1329	38.3	9.0	-20	15	(1)	17	(1)	70	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	2	18	750	430	1008	38.3	9.5	-51	24	(3)	26	(3)	137	
69	10	16	1125	617	1415	38.4	999.9	999	99	(99)	99	(99)	194	NO ELECTROJET
68	9	13	1111	439	1351	38.6	8.8	-42	10	(1)	11	(1)	56	
68	9	17	1048	465	1328	38.6	8.8	-43	16	(3)	19	(3)	98	
67	9	16	1104	430	1346	38.8	9.5	-28	13	(2)	14	(2)	41	
68	9	9	1135	423	1413	38.8	9.5	-46	10	(3)	10	(3)	13	
68	9	25	959	543	1244	38.9	9.5	-37	18	(2)	26	(2)	182	
68	1	13	1118	727	1346	39.2	8.0	-37	13	(4)	30	(9)	19	
68	9	29	932	561	1222	39.2	999.9	999	99	(99)	99	(99)	228	MISSING OR INCOMPLETE DATA
69	8	8	816	476	1049	39.6	9.0	-20	12	(3)	14	(3)	146	
68	1	29	941	508	1207	39.8	8.5	-35	99	(99)	99	(99)	199	MISSING OR INCOMPLETE DATA
68	10	3	908	640	1159	39.8	9.5	-76	17	(7)	32	(13)	280	
67	9	10	1135	423	1419	39.9	8.9	-11	2	(1)	2	(1)	32	
69	10	11	1158	543	1452	39.9	999.9	999	99	(99)	99	(99)	136	NO ELECTROJET
69	7	23	1017	410	1251	40.1	9.0	-13	15	(3)	15	(3)	90	
68	2	11	821	422	1050	40.7	9.0	-81	20	(15)	21	(16)	72	
69	7	15	1116	462	1353	40.7	999.9	999	99	(99)	99	(99)	45	NO ELECTROJET
68	2	21	721	445	951	40.9	9.0	-47	15	(2)	17	(2)	14	
67	9	4	1205	443	1451	41.3	999.9	999	99	(99)	99	(99)	89	NO ELECTROJET
70	7	19	1131	438	1411	41.5	999.9	999	99	(99)	99	(99)	51	ELECTROJET TOO BROAD TO CAL.
69	10	6	1230	481	1529	41.6	999.9	999	99	(99)	99	(99)	71	ELECTROJET TOO BROAD TO CAL.
68	2	1	916	478	1148	41.7	8.4	-16	17	(1)	21	(1)	19	
69	10	24	1013	787	1316	41.8	999.9	999	99	(99)	99	(99)	96	MISSING OR INCOMPLETE DATA
67	9	1	1219	464	1509	42.0	999.9	999	99	(99)	99	(99)	57	ELECTROJET TOO BROAD TO CAL.
69	8	3	842	433	1127	42.7	8.6	-7	14	(3)	15	(3)	84	
69	8	11	740	511	1027	42.8	8.3	-15	11	(4)	15	(5)	188	
69	10	19	1046	695	1353	43.0	999.9	999	99	(99)	99	(99)	34	MISSING OR INCOMPLETE DATA
68	2	14	754	421	1032	43.2	8.5	-28	26	(3)	27	(3)	101	
69	10	1	1301	436	1607	43.4	7.6	-54	9	(2)	10	(2)	8	
68	2	24	653	466	934	43.5	9.0	-37	30	(7)	36	(8)	48	
70	7	17	1138	424	1426	43.6	999.9	999	99	(99)	99	(99)	31	NO ELECTROJET
68	1	22	1006	598	1250	43.8	8.0	-14	5	(2)	8	(3)	125	
69	10	14	1118	586	1430	44.0	5.0	-1	2	(2)	3	(3)	171	
69	7	10	1139	524	1432	44.4	8.3	-15	10	(1)	14	(1)	44	
70	7	28	1008	532	1301	44.6	999.9	999	99	(99)	99	(99)	32	ELECTROJET TOO BROAD TO CAL.
68	9	12	1053	433	1356	44.7	8.0	-41	16	(8)	17	(8)	45	
68	9	16	1030	457	1334	44.7	8.5	-35	8	(5)	9	(5)	85	
68	9	20	1006	491	1312	44.7	8.2	-17	6	(3)	7	(3)	123	
68	9	8	1116	420	1418	44.9	999.9	999	99	(99)	99	(99)	3	NO ELECTROJET
68	9	24	941	532	1249	44.9	8.5	-33	12	(5)	17	(7)	171	
67	10	9	823	672	1138	45.1	8.0	-1	8	(1)	16	(2)	292	
67	10	12	805	713	1121	45.1	7.5	-32	3	(1)	6	(2)	324	
67	10	6	841	630	1155	45.2	8.0	-28	16	(1)	29	(1)	258	
67	10	3	858	590	1212	45.3	8.0	-12	6	(1)	10	(1)	224	
68	9	28	916	578	1227	45.3	8.2	-23	19	(1)	31	(1)	214	
67	9	30	915	550	1228	45.4	7.5	-69	99	(99)	99	(99)	191	AMP. TOO BROAD TO CALCULATE
68	1	25	942	557	1232	45.5	8.0	-4	9	(2)	13	(3)	152	
69	10	9	1151	516	1507	45.5	999.9	999	99	(99)	99	(99)	108	NO ELECTROJET
67	9	27	932	520	1245	45.6	8.0	-16	9	(4)	12	(5)	157	
68	2	17	726	427	1014	45.6	8.4	-18	22	(1)	23	(1)	126	
68	10	2	850	627	1205	45.7	8.5	-34	12	(4)	22	(7)	266	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP.	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	10	27	930	802	1251	45.7	6.6	-15	4	(3)	10	(8)	132	
69	8	6	807	456	1104	45.8	8.0	-15	12	(3)	14	(3)	126	
70	7	15	1145	414	1442	45.8	999.9	999	99	(99)	99	(99)	8	NO ELECTROJET
67	9	24	949	490	1302	45.9	3.0	999	99	(99)	99	(99)	124	ELECTROJET TOO BROAD TO CAL.
69	7	29	908	409	1205	46.0	8.8	-42	25	(7)	25	(7)	21	
67	9	21	1005	460	1318	46.2	8.0	-98	25	(5)	29	(5)	89	
68	2	27	625	493	917	46.3	8.0	-2	16	(5)	20	(6)	77	
67	9	18	1021	440	1335	46.7	7.5	-11	12	(5)	13	(5)	59	
70	7	26	1016	507	1317	46.7	999.9	999	99	(99)	99	(99)	8	MISSING OR INCOMPLETE DATA
69	10	22	1005	716	1329	46.8	8.6	-23	7	(0)	15	(0)	70	
67	9	15	1037	430	1351	47.1	7.0	-23	7	(2)	7	(2)	32	
69	7	13	1105	485	1409	47.2	999.9	999	99	(99)	99	(99)	19	NO ELECTROJET
68	1	28	917	520	1213	47.3	7.3	999	99	(99)	99	(99)	185	MISSING OR INCOMPLETE DATA
69	10	4	1223	461	1544	47.3	6.6	-34	13	(1)	15	(1)	45	
68	2	10	758	424	1056	48.1	7.3	-42	27	(2)	29	(2)	60	
69	10	17	1038	633	1407	48.1	7.0	-8	7	(2)	13	(3)	8	
67	9	9	1108	424	1424	48.3	999.9	999	99	(99)	99	(99)	19	MISSING OR INCOMPLETE DATA
67	9	6	1122	433	1441	49.0	999.9	999	99	(99)	99	(99)	112	NO ELECTROJET
68	3	1	556	524	859	49.0	8.0	-40	25	(4)	35	(5)	109	
69	8	1	833	421	1142	49.0	8.3	-19	17	(4)	18	(4)	56	
69	8	9	731	487	1042	49.0	9.1	-16	14	(8)	18	(10)	160	
69	7	24	932	407	1244	49.4	7.8	-10	14	(4)	14	(4)	99	
69	10	12	1111	556	1445	49.6	6.4	-23	9	(1)	13	(1)	148	
67	9	3	1137	449	1458	49.7	999.9	999	99	(99)	99	(99)	80	NO ELECTROJET
69	7	16	1031	453	1346	50.0	7.8	-26	10	(1)	11	(1)	7	
68	2	13	730	421	1038	50.5	8.5	-42	24	(2)	25	(2)	92	
68	2	23	630	459	940	50.8	8.8	-26	23	(1)	27	(1)	37	
68	9	19	947	481	1317	50.8	8.0	-33	9	(5)	11	(6)	108	
70	7	22	1031	463	1348	50.8	999.9	999	99	(99)	99	(99)	79	NO ELECTROJET
68	9	23	923	521	1255	51.0	8.0	-78	27	(4)	38	(5)	156	
69	7	8	1128	553	1448	51.0	8.3	-1	6	(1)	9	(1)	17	
69	10	25	924	767	1307	51.1	8.1	-20	4	(1)	10	(2)	108	
69	10	7	1144	492	1522	51.2	8.0	-33	7	(2)	9	(2)	85	
68	9	27	858	566	1233	51.3	8.0	-18	21	(3)	33	(4)	203	
68	1	21	942	612	1257	51.5	7.0	-24	10	(4)	17	(7)	112	
68	10	1	832	615	1210	51.7	9.0	-36	15	(1)	26	(1)	254	
69	8	4	757	440	1120	52.1	9.0	-26	8	(5)	9	(5)	98	
68	10	5	806	664	1148	52.3	8.5	-51	28	(4)	56	(8)	306	
69	10	20	958	682	1345	52.3	7.0	-7	3	(2)	6	(4)	46	
70	7	20	1038	446	1403	52.9	999.9	999	99	(99)	99	(99)	59	MISSING OR INCOMPLETE DATA
68	2	16	702	424	1020	53.0	7.2	-16	22	(1)	23	(1)	118	
68	10	9	740	712	1126	53.0	9.0	-18	12	(1)	26	(2)	349	
69	10	2	1215	444	1559	53.0	6.3	-74	11	(3)	12	(3)	19	
67	10	8	756	658	1144	53.3	8.1	3	13	(1)	25	(1)	278	
67	10	14	721	739	1110	53.3	8.0	-35	5	(2)	11	(4)	348	
68	2	6	801	440	1120	53.3	8.2	-37	32	(1)	36	(1)	19	
67	10	5	814	620	1200	53.4	7.5	-26	11	(3)	19	(5)	245	
68	2	26	602	483	922	53.5	8.0	-6	14	(3)	17	(3)	63	
67	9	29	848	540	1234	53.7	7.5	-99	12	(3)	17	(4)	179	
69	10	15	1032	601	1423	53.7	6.2	-8	4	(4)	6	(6)	182	
67	9	23	921	480	1307	54.2	7.0	-38	10	(6)	12	(7)	113	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP.	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	1	27	853	532	1220	54.9	7.4	-4	7	(2)	10	(2)	173	
67	9	17	954	440	1340	55.0	7.5	-11	9	(7)	10	(7)	49	
70	7	18	1045	430	1419	55.0	6.8	-19	9	(2)	9	(2)	41	
69	8	7	722	466	1057	55.2	8.3	0	5	(1)	6	(1)	133	
69	7	30	823	412	1158	55.4	8.0	17	0	(1)	0	(1)	32	
69	10	10	1105	541	1500	55.4	999.9	999	99	(99)	99	(99)	121	MISSING OR INCOMPLETE DATA
67	9	14	1009	430	1357	55.5	9.5	-25	4	(3)	4	(3)	20	
68	2	9	734	427	1102	55.5	8.4	-64	27	(3)	29	(3)	47	
68	2	19	635	434	1003	55.5	8.0	-38	22	(2)	24	(2)	150	
69	7	22	922	413	1259	55.8	6.8	3	2	(2)	2	(2)	82	
67	9	11	1025	422	1414	56.1	999.9	999	99	(99)	99	(99)	41	NO ELECTROJET
68	2	29	531	493	905	56.2	999.9	999	99	(99)	99	(99)	100	MISSING OR INCOMPLETE DATA
69	7	14	1021	474	1401	56.5	8.4	-13	8	(2)	9	(2)	33	
69	10	23	918	733	1322	56.6	9.0	-8	4	(2)	9	(4)	81	
67	9	8	1040	425	1430	56.7	8.0	0	3	(1)	3	(1)	7	
68	9	18	927	451	1323	56.8	999.9	999	99	(99)	99	(99)	102	MISSING OR INCOMPLETE DATA
68	9	14	953	444	1345	56.9	7.9	-50	21	(4)	23	(4)	68	
69	10	5	1136	471	1537	56.9	999.9	999	99	(99)	99	(99)	58	MISSING OR INCOMPLETE DATA
68	9	10	1016	425	1408	57.0	8.0	-26	18	(3)	19	(3)	22	
68	9	22	905	510	1301	57.0	7.8	-18	21	(4)	28	(5)	143	
70	7	16	1052	419	1434	57.1	9.0	-16	5	(3)	5	(3)	18	
68	9	26	840	554	1239	57.3	8.5	-27	26	(1)	40	(1)	195	
67	9	5	1055	438	1447	57.4	7.5	-10	8	(5)	8	(5)	100	
68	9	30	814	602	1216	57.7	8.2	-12	17	(3)	29	(5)	242	
68	2	12	707	421	1044	57.9	8.3	-56	20	(1)	21	(1)	83	
69	10	18	952	648	1400	57.9	6.6	-23	7	(2)	13	(3)	22	
67	9	2	1109	456	1502	58.1	999.9	999	99	(99)	99	(99)	68	MISSING OR INCOMPLETE DATA
68	2	22	607	451	946	58.1	8.0	-33	20	(1)	23	(1)	24	
70	7	27	923	519	1309	58.1	7.8	-57	24	(2)	33	(2)	19	
68	10	4	746	622	1154	58.2	999.9	999	99	(99)	99	(99)	292	MISSING OR INCOMPLETE DATA
69	8	2	748	426	1135	58.4	8.3	-5	5	(1)	5	(1)	69	
69	8	10	645	498	1034	58.4	8.8	-15	12	(8)	15	(10)	173	
68	2	2	803	469	1144	58.7	8.0	-33	24	(1)	29	(1)	32	
69	7	25	848	406	1236	58.7	8.8	2	4	(1)	4	(1)	110	
68	10	8	722	701	1131	58.9	8.0	-28	15	(1)	32	(2)	337	
68	1	20	917	627	1303	59.1	8.5	-11	6	(1)	11	(1)	98	
69	10	13	1026	588	1438	59.5	999.9	999	99	(99)	99	(99)	159	MISSING OR INCOMPLETE DATA
69	7	9	1044	539	1441	60.2	999.9	999	99	(99)	99	(99)	30	MISSING OR INCOMPLETE DATA
68	2	5	737	446	1126	60.7	8.0	-38	25	(6)	28	(6)	6	
68	2	25	540	489	930	60.8	999.9	999	99	(99)	99	(99)	55	MISSING OR INCOMPLETE DATA
69	10	8	1057	504	1515	60.9	6.8	-8	6	(4)	8	(5)	97	
69	10	26	838	784	1259	60.9	999.9	999	99	(99)	99	(99)	119	NO ELECTROJET
67	10	7	730	640	1149	61.5	8.0	-12	17	(1)	32	(1)	266	
67	10	10	712	685	1132	61.5	8.0	-41	12	(2)	25	(4)	304	
67	10	13	654	726	1116	61.5	8.1	-38	14	(1)	32	(2)	337	
69	8	5	712	447	1112	61.5	8.3	-15	15	(3)	17	(3)	112	
67	10	4	747	600	1206	61.6	8.0	-28	12	(1)	20	(1)	233	
67	10	1	804	560	1223	61.7	8.5	-57	11	(2)	17	(3)	204	
69	7	28	812	407	1213	61.7	8.8	-38	10	(9)	10	(9)	6	
69	8	13	610	536	1012	61.7	7.8	-22	10	(3)	14	(4)	213	
67	9	28	821	530	1240	61.9	7.6	-46	6	(2)	8	(2)	167	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP.	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	10	21	912	698	1337	62.1	7.6	-29	4	(1)	8	(2)	57	
67	9	25	838	500	1256	62.2	7.5	-20	5	(1)	6	(1)	133	
69	7	20	917	423	1315	62.2	8.3	5	4	(1)	4	(1)	60	
67	9	22	854	470	1313	62.5	8.0	-53	20	(3)	24	(3)	99	
69	10	3	1129	452	1552	62.7	7.7	-56	21	(7)	24	(8)	32	
68	2	18	612	430	1009	62.8	8.3	-16	18	(2)	19	(2)	136	
68	2	8	710	431	1108	62.9	8.0	-17	20	(4)	21	(4)	35	
68	9	13	934	438	1351	63.0	7.8	-17	9	(1)	10	(1)	55	
68	9	17	911	464	1329	63.0	8.0	-33	17	(1)	20	(1)	97	
68	9	21	846	500	1307	63.1	8.5	-22	17	(1)	22	(1)	133	
68	9	9	957	422	1413	63.2	8.7	-45	15	(3)	16	(3)	12	
67	9	16	926	430	1346	63.3	7.5	-22	17	(3)	18	(3)	40	
68	9	25	823	541	1245	63.3	999.9	999	99	(99)	99	(99)	181	MISSING OR INCOMPLETE DATA
68	2	28	508	475	909	63.4	999.9	999	99	(99)	99	(99)	90	MISSING OR INCOMPLETE DATA
69	10	16	945	616	1415	63.4	6.8	6	4	(3)	7	(5)	193	
68	9	29	757	590	1222	63.7	7.5	-19	18	(1)	30	(1)	227	
68	10	3	731	639	1200	64.2	8.5	-81	23	(1)	43	(1)	279	
68	1	29	804	509	1208	64.3	8.0	-26	14	(4)	19	(5)	198	
70	7	21	945	454	1356	64.3	999.9	999	99	(99)	99	(99)	69	NO ELECTROJET
67	9	10	957	423	1419	64.4	8.5	-11	5	(1)	5	(1)	31	
69	8	8	636	476	1050	64.6	8.8	-14	12	(9)	14	(11)	145	
69	7	31	738	416	1150	64.7	8.5	-17	12	(9)	12	(9)	45	
69	10	11	1018	542	1453	64.9	999.9	999	99	(99)	99	(99)	135	NO ELECTROJET
68	2	11	644	422	1050	65.2	8.5	-63	23	(5)	24	(5)	71	
67	9	4	1027	443	1452	65.8	999.9	999	99	(99)	99	(99)	88	MISSING OR INCOMPLETE DATA
69	7	15	936	463	1354	65.8	8.5	-13	6	(1)	7	(1)	44	
69	10	24	831	749	1315	66.3	8.1	-19	5	(2)	12	(4)	95	
70	7	19	952	437	1411	66.4	8.4	-16	10	(2)	11	(2)	50	
67	9	1	1041	464	1509	66.6	999.9	999	99	(99)	99	(99)	56	ELECTROJET TOO BROAD TO CAL.
69	10	6	1050	481	1530	66.6	999.9	999	99	(99)	99	(99)	70	ELECTROJET TOO BROAD TO CAL.
68	1	19	853	642	1309	66.7	8.5	-11	3	(1)	5	(1)	89	
68	2	14	616	421	1032	67.6	8.5	-18	12	(2)	12	(2)	100	
69	8	3	703	432	1128	67.8	8.6	13	11	(2)	12	(2)	83	
69	8	11	600	510	1027	67.9	8.3	-11	8	(8)	10	(10)	187	
69	7	26	803	406	1229	68.1	8.3	20	3	(2)	3	(2)	118	
68	1	22	828	599	1251	68.3	9.0	-4	9	(3)	15	(5)	124	
69	10	1	1122	436	1607	68.4	999.9	999	99	(99)	99	(99)	7	NO ELECTROJET
70	7	17	959	424	1427	68.5	999.9	999	99	(99)	99	(99)	30	NO ELECTROJET
69	7	18	901	437	1331	68.6	8.3	-12	11	(1)	12	(1)	31	
69	10	14	939	585	1430	69.0	999.9	999	99	(99)	99	(99)	170	NO ELECTROJET
68	9	12	916	433	1357	69.1	999.9	999	99	(99)	99	(99)	44	MISSING OR INCOMPLETE DATA
68	9	16	853	457	1334	69.1	8.0	-38	17	(6)	20	(7)	84	
68	9	20	828	490	1312	69.1	8.5	-17	7	(3)	9	(3)	122	
68	9	24	804	531	1250	69.3	8.0	-32	15	(1)	21	(1)	170	
69	7	10	959	525	1433	69.5	8.3	-9	7	(2)	9	(2)	43	
70	7	28	829	531	1301	69.5	999.9	999	99	(99)	99	(99)	31	ELECTROJET TOO BROAD TO CAL.
67	10	9	645	671	1138	69.6	8.5	-1	8	(1)	16	(2)	291	
67	10	6	703	630	1155	69.7	8.0	-31	17	(2)	31	(3)	257	
68	9	28	739	577	1228	69.7	9.0	-16	14	(2)	22	(3)	213	
67	9	30	737	550	1229	70.0	8.0	-49	2	(1)	3	(1)	190	
68	1	25	804	558	1233	70.0	9.3	2	9	(1)	13	(1)	151	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	10	2	713	626	1205	70.1	8.0	-32	5	(2)	9	(3)	265	
68	2	7	647	435	1114	70.4	8.4	-14	18	(1)	19	(1)	29	
67	9	24	811	490	1302	70.5	8.0	-28	7	(2)	9	(2)	123	
68	2	27	447	492	917	70.7	8.5	1	15	(1)	19	(1)	76	
68	10	6	647	676	1143	70.7	9.5	8	8	(4)	16	(8)	316	
69	10	27	751	801	1252	70.7	7.1	-6	4	(3)	10	(8)	131	
67	9	21	827	460	1319	70.8	8.5	-121	37	(6)	44	(7)	88	
69	7	29	728	409	1206	71.1	9.1	-22	13	(5)	13	(5)	20	
67	9	18	843	440	1335	71.2	8.0	-9	18	(3)	20	(3)	58	
70	7	26	837	506	1317	71.6	9.2	-81	7	(5)	9	(6)	7	
68	1	28	740	521	1214	71.8	8.0	-22	9	(1)	12	(1)	184	
69	10	22	825	715	1330	71.8	999.9	999	99	(99)	99	(99)	69	ELECTROJET TOO BROAD TO CAL.
67	9	12	914	423	1408	72.2	999.9	999	99	(99)	99	(99)	48	NO ELECTROJET
69	10	4	1043	461	1545	72.3	999.9	999	99	(99)	99	(99)	44	NO ELECTROJET
68	2	10	620	424	1056	72.6	9.0	-29	17	(1)	18	(1)	59	
67	9	9	930	424	1425	72.8	8.5	-13	8	(2)	8	(2)	18	
69	10	17	858	632	1408	73.2	7.6	-3	4	(4)	7	(7)	7	
67	9	6	945	433	1441	73.5	8.5	-7	6	(4)	6	(4)	111	
68	3	1	418	521	900	73.5	8.5	-21	9	(3)	12	(4)	108	
70	7	24	844	483	1332	73.6	9.0	-23	4	(1)	5	(1)	93	
69	8	9	551	486	1042	74.1	9.6	-2	10	(3)	12	(3)	159	
67	9	3	959	450	1458	74.3	999.9	999	99	(99)	99	(99)	79	ELECTROJET TOO BROAD TO CAL.
69	10	12	932	556	1446	74.6	999.9	699	99	(99)	99	(99)	147	ELECTROJET TOO BROAD TO CAL.
68	9	15	834	450	1340	75.2	9.0	-39	12	(4)	13	(4)	75	
68	9	19	810	481	1318	75.2	8.8	-32	13	(4)	16	(5)	107	
68	2	23	453	458	940	75.3	999.9	999	99	(99)	99	(99)	36	MISSING OR INCOMPLETE DATA
68	9	11	857	429	1402	75.3	8.0	-14	8	(2)	8	(2)	35	
68	9	23	746	520	1256	75.4	9.0	-37	19	(4)	26	(5)	155	
69	7	8	949	555	1449	76.0	999.9	999	99	(99)	99	(99)	16	MISSING OR INCOMPLETE DATA
68	10	1	655	614	1210	76.1	9.0	-20	6	(1)	10	(1)	253	
69	10	25	745	766	1307	76.1	7.1	-14	4	(2)	10	(5)	107	
69	10	7	1004	491	1523	76.2	999.9	999	99	(99)	99	(99)	84	NO ELECTROJET
68	10	5	629	663	1149	76.7	9.0	-39	18	(2)	36	(4)	305	
69	8	4	617	439	1120	77.2	9.3	-34	16	(1)	17	(1)	97	
69	8	12	515	522	1020	77.3	9.3	-11	12	(3)	16	(4)	200	
69	10	20	819	681	1345	77.3	999.9	999	99	(99)	99	(99)	45	NO ELECTROJET
68	10	9	602	711	1126	77.4	999.9	999	99	(99)	99	(99)	348	MISSING OR INCOMPLETE DATA
69	7	27	718	406	1221	77.4	8.0	-125	35	(20)	35	(20)	132	
68	2	16	525	424	1021	77.5	9.5	-6	16	(2)	17	(2)	117	
68	1	24	740	572	1239	77.6	7.8	-8	3	(1)	4	(1)	145	
67	10	8	618	657	1144	77.8	9.0	-1	8	(3)	15	(5)	277	
68	2	6	628	441	1120	77.8	9.5	-38	31	(1)	35	(1)	18	
70	7	20	859	445	1404	77.8	9.8	-1	2	(1)	2	(1)	58	
67	10	5	636	620	1201	77.9	9.5	-29	15	(2)	27	(3)	244	
67	10	2	655	580	1218	78.0	8.5	-37	15	(1)	24	(1)	215	
68	2	26	424	483	923	78.0	10.0	3	9	(1)	11	(1)	62	
69	10	2	1036	443	1600	78.0	999.9	999	99	(99)	99	(99)	18	ELECTROJET TOO BROAD TO CAL.
67	9	29	710	540	1234	78.2	9.0	-122	33	(1)	48	(1)	178	
67	9	26	727	510	1251	78.6	7.5	-37	12	(9)	16	(12)	144	
69	10	15	852	600	1423	78.7	8.0	2	5	(4)	8	(6)	181	
67	9	23	744	480	1308	78.8	8.7	-36	14	(4)	17	(5)	112	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
67	9	20	800	450	1324	79.1	8.5	-65	23	(8)	26	(9)	76	
67	9	17	816	440	1341	79.5	8.5	-2	8	(5)	9	(5)	48	
68	2	9	556	427	1102	79.9	8.8	-50	18	(4)	19	(4)	46	
70	7	18	906	430	1419	79.9	8.8	-3	6	(3)	6	(3)	40	
67	9	14	832	430	1357	80.0	9.0	-28	14	(5)	15	(5)	19	
68	2	19	458	434	1003	80.0	9.0	-37	19	(4)	21	(4)	149	
69	8	7	542	465	1058	80.3	9.3	-1	12	(1)	14	(1)	132	
69	7	30	643	412	1158	80.4	9.0	9	0	(1)	0	(1)	31	
67	9	11	847	422	1414	80.6	9.0	4	6	(3)	6	(3)	40	
69	7	22	743	414	1300	80.9	9.1	-21	15	(3)	15	(3)	81	
67	9	8	902	427	1430	81.2	9.0	0	13	(5)	14	(5)	6	
68	9	14	815	444	1346	81.3	9.0	-54	20	(3)	22	(3)	67	
68	9	10	839	425	1408	81.4	9.3	-17	15	(3)	16	(3)	21	
68	9	22	727	509	1301	81.4	9.0	-14	23	(5)	31	(6)	142	
69	7	14	841	474	1402	81.5	9.2	-28	15	(6)	18	(7)	32	
69	10	23	739	732	1323	81.6	7.6	-4	5	(4)	11	(9)	80	
68	9	26	703	553	1239	81.7	9.0	-31	27	(3)	41	(4)	194	
67	9	5	917	438	1447	81.9	9.0	-15	14	(5)	15	(5)	99	
69	10	5	957	470	1538	82.0	999.9	999	99	(99)	99	(99)	57	NO ELECTROJET
68	9	30	637	601	1217	82.1	9.0	-4	13	(1)	22	(1)	241	
70	7	16	913	418	1435	82.1	8.8	-8	11	(5)	11	(5)	17	
68	2	12	529	421	1044	82.4	9.0	-51	13	(1)	13	(1)	82	
68	2	22	430	451	946	82.6	9.5	-24	19	(2)	22	(2)	23	
69	10	18	812	647	1401	82.9	8.6	-28	11	(5)	21	(9)	21	
70	7	27	744	518	1309	83.0	8.8	-43	12	(3)	16	(4)	18	
68	2	2	625	470	1144	83.2	9.8	-26	20	(5)	24	(6)	31	
68	10	8	545	700	1132	83.3	9.5	-25	11	(1)	23	(2)	336	
69	8	10	506	497	1035	83.5	9.3	-26	22	(1)	29	(1)	172	
68	1	20	740	628	1304	83.6	9.0	-12	2	(1)	3	(1)	97	
69	7	25	708	406	1237	83.8	9.3	-8	17	(1)	17	(1)	109	
69	10	13	846	570	1438	84.3	8.4	-2	7	(6)	11	(9)	158	
69	7	17	806	445	1339	84.4	9.3	-5	8	(2)	9	(2)	19	
68	2	15	502	422	1027	84.8	9.5	9	10	(1)	10	(1)	109	
68	1	23	716	585	1245	85.2	9.7	-18	12	(2)	19	(3)	135	
68	2	5	559	447	1126	85.2	9.0	-43	30	(7)	34	(8)	5	
69	7	9	904	540	1441	85.3	8.8	-2	8	(3)	11	(4)	29	
69	10	26	658	783	1300	85.9	9.0	-7	7	(3)	18	(7)	118	
67	10	13	516	725	1116	86.0	9.3	-37	15	(6)	34	(13)	336	
67	10	4	609	600	1207	86.1	9.5	-34	15	(4)	25	(6)	232	
67	10	1	626	560	1223	86.3	10.0	-46	16	(3)	25	(4)	203	
69	8	5	532	447	1113	86.5	8.8	-32	24	(10)	27	(11)	111	
69	8	13	430	535	1013	86.7	9.5	-23	13	(2)	19	(2)	212	
69	7	28	633	407	1214	86.8	9.8	-36	17	(7)	17	(7)	5	
68	1	26	651	546	1227	87.0	8.8	-18	13	(2)	19	(3)	164	
69	10	21	732	697	1338	87.1	8.0	3	3	(3)	6	(6)	56	
69	7	20	732	424	1315	87.3	9.3	5	11	(1)	11	(1)	59	
68	2	8	533	431	1109	87.4	9.0	-15	16	(1)	17	(1)	34	
68	9	21	709	498	1307	87.5	9.0	-23	25	(2)	33	(2)	132	
69	10	3	950	451	1553	87.7	9.0	-47	5	(4)	5	(4)	31	
69	7	12	830	499	1418	88.0	9.2	-34	19	(2)	25	(2)	7	
68	9	29	619	589	1223	88.1	9.5	-20	17	(1)	28	(1)	226	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
67	9	13	804	420	1403	88.4	6.0	-16	10	(1)	10	(1)	7	
69	10	16	806	615	1416	88.4	9.2	7	8	(2)	14	(3)	192	
68	10	3	554	638	1200	88.6	9.5	-70	24	(2)	45	(3)	278	
67	9	10	819	423	1420	89.0	9.8	-16	7	(1)	7	(1)	30	
68	1	16	739	686	1328	89.7	8.5	-32	8	(1)	16	(2)	53	
69	8	8	457	475	1050	89.7	9.8	-10	14	(3)	17	(3)	144	
69	7	31	559	416	1151	89.8	9.8	-22	16	(3)	16	(3)	44	
69	10	11	839	541	1453	89.9	999.9	999	99	(99)	99	(99)	134	ELECTROJET TOO BROAD TO CAL.
69	7	15	756	464	1354	90.8	9.8	-8	12	(1)	14	(1)	43	
67	9	1	904	465	1509	91.2	12.0	-18	2	(1)	2	(1)	55	
70	7	19	813	437	1412	91.3	9.8	-6	13	(1)	14	(1)	49	
69	10	24	651	748	1315	91.4	8.6	-8	5	(3)	12	(7)	94	
69	10	6	911	480	1531	91.6	8.8	-13	3	(1)	3	(1)	69	
69	10	19	725	651	1353	92.5	999.9	999	99	(99)	99	(99)	33	NO ELECTROJET
69	8	3	523	432	1128	92.8	9.8	-6	24	(2)	26	(2)	82	
69	8	11	421	509	1029	92.9	10.0	-16	16	(3)	21	(4)	186	
70	7	17	820	424	1427	93.4	9.0	6	10	(1)	10	(1)	29	
68	9	16	715	456	1335	93.5	9.8	-33	16	(1)	18	(1)	83	
68	9	20	651	489	1313	93.5	9.5	-12	7	(1)	9	(1)	121	
68	9	12	738	432	1357	93.6	9.8	-40	22	(1)	24	(1)	43	
68	9	24	627	530	1250	93.7	9.5	-35	18	(4)	26	(5)	169	
69	7	18	722	437	1331	93.7	9.8	-24	26	(3)	29	(3)	30	
69	10	14	759	584	1431	94.0	9.0	-1	5	(2)	8	(3)	169	
70	7	28	650	530	1302	94.4	10.8	-35	8	(6)	11	(8)	30	
68	10	2	536	626	1206	94.5	9.5	-88	28	(2)	51	(3)	264	
69	7	10	820	526	1434	94.5	9.3	-16	14	(1)	20	(1)	42	
68	10	6	509	673	1143	95.1	10.0	-36	15	(1)	30	(2)	315	
70	7	15	827	414	1443	95.6	10.5	-12	9	(6)	9	(6)	7	
69	10	27	611	799	1252	95.7	10.0	-6	6	(1)	16	(2)	130	
67	9	18	705	440	1336	95.8	9.0	-7	8	(1)	9	(1)	57	
69	8	6	447	455	1106	95.9	9.5	-26	16	(4)	18	(4)	125	
69	7	29	548	409	1206	96.1	8.8	-34	27	(4)	27	(4)	19	
67	9	15	721	430	1352	96.2	9.5	-38	11	(3)	12	(3)	31	
70	7	26	658	505	1317	96.5	9.4	-110	99	(99)	99	(99)	6	AMP. TOO BROAD TO CALCULATE
69	7	21	648	419	1308	96.6	9.6	6	13	(4)	13	(4)	67	
67	9	12	737	423	1409	96.8	9.0	12	2	(1)	2	(1)	47	
69	7	13	746	487	1410	97.3	9.8	22	11	(5)	14	(6)	18	
69	10	4	903	460	1546	97.3	9.0	-32	6	(0)	7	(0)	43	
67	9	9	752	424	1425	97.4	9.5	-32	20	(1)	21	(1)	17	
68	1	15	714	701	1335	97.4	9.0	-21	2	(1)	4	(2)	41	
67	9	6	807	434	1442	98.1	9.5	-6	7	(1)	7	(1)	110	
68	1	31	537	489	1156	98.2	9.7	-26	14	(3)	18	(3)	12	
69	10	17	719	630	1409	98.2	9.6	-9	10	(2)	18	(3)	6	
70	7	24	705	483	1333	98.5	9.6	-63	18	(6)	22	(7)	92	
67	9	3	821	450	1458	98.8	9.5	-22	6	(2)	6	(2)	78	
69	8	1	513	420	1144	99.1	9.3	-38	23	(3)	24	(3)	55	
69	8	9	412	485	1043	99.1	9.8	-8	16	(5)	20	(6)	158	
69	7	24	613	408	1245	99.5	9.8	-12	5	(2)	5	(2)	98	
69	10	12	752	554	1446	99.6	9.8	-38	6	(3)	9	(4)	146	
68	10	1	518	613	1211	100.5	9.5	-36	11	(2)	19	(3)	252	
70	7	22	713	462	1349	100.6	9.8	-31	13	(8)	15	(9)	78	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP.	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	10	25	605	765	1308	101.1	9.6	-19	6	(1)	15	(2)	106	
69	10	7	825	491	1523	101.3	9.0	-32	8	(2)	10	(2)	83	
68	10	9	425	711	1126	101.8	9.0	-31	18	(2)	40	(4)	347	
69	8	4	438	439	1121	102.2	9.3	-55	24	(9)	26	(10)	96	
69	8	12	336	521	1020	102.3	8.8	-13	15	(4)	21	(5)	199	
69	10	20	639	679	1346	102.4	9.6	-15	7	(2)	14	(4)	44	
69	7	27	538	406	1222	102.5	9.0	-87	24	(11)	24	(11)	131	
67	10	2	516	580	1218	102.6	9.0	-44	18	(2)	29	(3)	214	
70	7	20	720	445	1404	102.7	9.3	-18	13	(9)	14	(10)	57	
67	9	29	533	540	1235	102.8	9.0	-102	38	(1)	56	(1)	177	
69	7	19	637	430	1324	103.0	9.3	-9	7	(4)	7	(4)	44	
69	10	2	856	443	1600	103.1	9.6	-91	8	(3)	9	(3)	17	
69	10	15	713	593	1424	103.7	9.4	-14	4	(3)	6	(5)	180	
69	7	11	735	512	1426	103.8	9.5	-18	16	(3)	22	(4)	56	
68	1	27	538	534	1221	103.9	8.2	-2	6	(1)	8	(1)	172	
67	9	17	638	440	1341	104.1	8.5	-17	10	(1)	11	(1)	47	
67	9	14	654	430	1357	104.6	8.5	-34	7	(1)	7	(1)	18	
70	7	18	727	430	1420	104.8	10.3	-13	13	(10)	14	(10)	39	
68	1	14	649	715	1341	105.0	8.5	-31	4	(1)	9	(2)	30	
67	9	11	709	422	1414	105.2	8.5	-7	11	(2)	11	(2)	39	
68	2	29	218	511	906	105.2	9.0	-38	15	(1)	20	(1)	99	
69	8	7	402	464	1058	105.3	8.3	3	9	(1)	10	(1)	131	
69	10	10	745	527	1501	105.3	999.9	999	99	(99)	99	(99)	120	NO ELECTROJET
68	9	14	638	443	1346	105.7	9.3	-58	16	(3)	18	(3)	66	
68	9	10	701	425	1408	105.8	8.7	-35	12	(1)	12	(1)	20	
68	9	22	550	509	1302	105.8	8.8	-14	18	(2)	24	(2)	141	
69	7	22	603	414	1300	105.9	8.8	-34	23	(4)	23	(4)	80	
68	9	26	525	552	1239	106.1	9.2	-35	99	(99)	99	(99)	193	AMP. TOO BROAD TO CALCULATE
67	9	5	739	439	1448	106.5	8.5	-26	12	(2)	13	(2)	98	
68	9	30	500	600	1217	106.5	8.5	-17	16	(1)	27	(1)	240	
69	7	14	701	475	1402	106.6	8.8	-36	14	(2)	17	(2)	31	
69	10	23	559	730	1323	106.6	9.6	-17	4	(2)	9	(4)	79	
68	10	4	434	650	1155	107.0	9.5	-53	21	(4)	40	(7)	291	
70	7	16	734	418	1436	107.0	8.8	-23	14	(3)	14	(3)	16	
67	9	2	754	458	1504	107.3	9.0	-42	8	(2)	9	(2)	67	
68	10	8	408	699	1132	107.7	9.0	-34	12	(4)	26	(8)	335	
69	10	18	633	646	1401	107.9	9.3	-39	16	(4)	30	(7)	20	
69	8	2	428	425	1136	108.5	8.3	-19	11	(1)	11	(1)	68	
69	8	10	326	497	1036	108.5	8.8	-28	17	(4)	22	(5)	171	
68	2	15	325	422	1027	109.3	7.0	3	22	(1)	23	(1)	108	
69	10	13	706	568	1439	109.3	9.0	-18	6	(1)	9	(1)	157	
69	7	17	627	446	1339	109.4	8.8	-30	22	(1)	25	(1)	18	
68	2	25	224	473	929	109.7	9.0	-13	11	(1)	13	(1)	54	
68	1	23	538	586	1245	109.8	8.8	-22	16	(1)	26	(1)	134	
69	7	9	724	541	1442	110.3	8.3	-19	14	(2)	20	(2)	28	
67	10	10	356	683	1133	110.6	9.0	-62	20	(6)	41	(12)	303	
67	10	1	449	560	1224	110.8	8.0	-50	16	(3)	25	(4)	202	
69	10	8	738	502	1516	110.9	8.2	-9	6	(1)	8	(1)	96	
69	10	26	519	782	1300	110.9	9.0	-11	5	(1)	12	(2)	117	
67	9	28	506	530	1240	111.0	8.7	-49	12	(1)	17	(1)	166	
67	9	25	522	490	1257	111.3	8.0	-34	15	(3)	19	(3)	132	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	1	26	513	546	1227	111.5	8.0	-12	10	(2)	15	(3)	163	
69	8	5	353	447	1113	111.6	8.3	-48	21	(3)	24	(3)	110	
68	2	18	257	429	1010	111.8	8.6	2	13	(2)	14	(2)	135	
68	9	13	620	437	1352	111.8	8.8	-84	30	(3)	33	(3)	54	
68	9	17	556	463	1330	111.8	8.5	-33	18	(1)	21	(1)	96	
69	7	28	454	407	1214	111.8	8.3	-34	15	(2)	15	(2)	4	
67	9	19	555	450	1330	112.0	8.0	-46	14	(2)	16	(2)	68	
68	9	9	643	422	1414	112.0	9.0	-43	16	(1)	17	(1)	11	
68	9	25	507	541	1245	112.1	8.5	-38	25	(5)	37	(7)	180	
69	10	21	553	696	1339	112.1	8.1	-7	8	(0)	17	(0)	55	
69	7	20	552	424	1316	112.3	8.8	-14	20	(1)	21	(1)	58	
67	9	16	611	430	1347	112.5	8.0	-29	21	(2)	22	(2)	39	
68	2	28	155	501	912	112.5	8.8	-10	8	(2)	10	(2)	89	
68	9	29	442	586	1223	112.5	8.5	-30	20	(3)	33	(5)	225	
69	10	3	810	450	1553	112.7	8.6	-46	8	(2)	9	(2)	30	
67	9	13	626	420	1403	113.0	8.0	42	0	(2)	0	(2)	6	
68	1	29	449	510	1209	113.3	8.5	-36	99	(99)	99	(99)	197	MISSING OR INCOMPLETE DATA
69	10	16	626	614	1416	113.5	8.8	-11	10	(2)	17	(3)	191	
67	9	10	642	423	1420	113.6	8.2	-20	12	(1)	12	(1)	29	
68	10	7	350	685	1138	113.6	9.0	-27	13	(1)	27	(2)	324	
70	7	21	627	453	1357	114.1	8.8	-18	17	(1)	19	(1)	68	
68	2	21	229	444	952	114.4	8.3	-37	17	(3)	19	(3)	13	
69	8	8	317	474	1051	114.7	8.0	-9	9	(1)	11	(1)	143	
69	7	31	418	415	1151	114.8	7.8	-20	15	(2)	15	(2)	43	
67	9	4	711	444	1453	114.9	8.0	-21	4	(1)	4	(1)	87	
69	10	11	659	540	1454	115.0	8.6	-28	3	(1)	4	(1)	133	
67	9	1	726	466	1510	115.7	999.9	999	99	(99)	99	(99)	54	ELECTROJET TOO BROAD TO CAL.
68	1	19	537	644	1310	115.7	8.0	-24	7	(2)	13	(3)	88	
70	7	19	634	437	1412	116.2	8.0	-8	8	(1)	8	(1)	48	
69	10	24	512	747	1316	116.4	6.1	-9	5	(2)	12	(4)	93	
69	10	6	731	479	1531	116.6	8.0	-35	10	(1)	12	(1)	68	
68	2	24	201	464	935	117.0	8.5	-8	11	(2)	13	(2)	47	
68	2	4	358	454	1133	117.2	8.0	-66	38	(2)	44	(2)	49	
68	1	22	513	600	1252	117.4	8.2	-21	15	(2)	25	(3)	123	
69	10	19	545	650	1354	117.5	999.9	999	99	(99)	99	(99)	32	NO ELECTROJET
68	9	16	538	456	1335	117.9	8.0	-40	16	(1)	18	(1)	82	
68	9	20	514	489	1313	117.9	8.0	-15	6	(1)	7	(1)	120	
69	8	3	343	431	1129	117.9	7.8	1	14	(1)	15	(1)	81	
69	8	11	241	508	1028	117.9	8.0	-15	12	(3)	16	(4)	185	
68	9	12	601	432	1357	118.0	8.2	-30	14	(1)	15	(1)	42	
68	9	24	449	529	1251	118.1	7.8	-28	8	(3)	11	(4)	168	
70	7	17	640	421	1428	118.2	7.8	0	16	(2)	17	(2)	28	
68	9	28	424	575	1229	118.5	8.3	-28	24	(3)	38	(4)	212	
69	10	1	803	435	1608	118.5	7.6	-52	7	(3)	7	(3)	6	
67	10	9	330	669	1139	118.7	7.5	-17	11	(3)	22	(6)	290	
67	10	12	312	710	1122	118.7	8.0	-45	11	(1)	24	(2)	322	
69	7	18	542	438	1332	118.7	7.8	-23	24	(1)	26	(1)	29	
67	10	6	347	630	1156	118.8	7.8	-64	27	(1)	50	(1)	256	
67	10	3	405	590	1213	118.9	7.5	-33	15	(1)	25	(1)	223	
68	10	2	359	625	1206	118.9	8.0	-43	15	(4)	27	(7)	263	
67	9	30	422	550	1229	119.1	7.2	-68	5	(2)	7	(3)	189	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP.	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	1	25	449	560	1233	119.1	8.0	-25	16	(2)	25	(3)	150	
67	9	27	438	520	1246	119.3	8.0	-36	12	(1)	16	(1)	156	
68	2	7	332	436	1115	119.3	8.2	-29	21	(5)	23	(5)	28	
70	7	28	511	530	1303	119.3	8.3	-39	10	(1)	14	(1)	29	
69	7	10	640	527	1434	119.6	7.8	-14	14	(2)	20	(2)	41	
68	2	27	132	491	918	119.7	8.0	8	12	(1)	15	(1)	75	
67	9	21	512	460	1319	119.9	8.5	-122	22	(2)	26	(2)	87	
68	1	12	560	744	1354	120.4	8.0	-34	7	(1)	16	(2)	6	
70	7	15	648	413	1444	120.5	8.2	-2	8	(2)	8	(2)	6	
69	10	9	652	514	1509	120.6	7.4	-15	7	(1)	9	(1)	107	
69	10	27	432	798	1253	120.7	7.5	-10	5	(2)	13	(5)	129	
67	9	15	543	430	1353	120.8	8.0	-36	8	(1)	8	(1)	30	
68	1	28	424	522	1214	120.8	8.0	-43	17	(4)	24	(5)	183	
69	8	6	307	455	1106	121.0	8.3	-14	7	(2)	8	(2)	124	
69	7	29	408	409	1207	121.2	7.8	-27	16	(4)	16	(4)	18	
70	7	26	519	505	1318	121.4	8.0	-65	17	(5)	22	(6)	5	
69	7	21	508	419	1309	121.6	7.7	7	14	(2)	14	(2)	66	
69	10	22	506	713	1331	121.9	8.6	-18	8	(1)	17	(2)	68	
67	9	9	614	424	1426	122.0	8.0	-32	13	(1)	13	(1)	16	
69	10	4	723	448	1546	122.1	999.9	999	99	(99)	99	(99)	42	NO ELECTROJET
69	7	13	606	487	1411	122.4	8.8	18	3	(2)	3	(2)	17	
68	3	1	103	521	901	122.5	8.5	-33	8	(2)	11	(2)	107	
67	9	6	629	434	1442	122.6	7.3	-14	12	(3)	13	(3)	109	
68	1	31	359	489	1157	122.7	7.6	-41	18	(1)	23	(1)	11	
70	7	24	526	482	1334	123.4	8.9	-57	12	(3)	15	(3)	91	
69	10	17	541	661	1410	123.6	999.9	999	99	(99)	99	(99)	5	MISSING OR INCOMPLETE DATA
68	2	13	238	420	1039	124.0	8.0	-35	20	(2)	21	(2)	91	
68	9	15	519	448	1341	124.0	8.2	-56	23	(1)	26	(1)	74	
68	9	19	456	479	1319	124.0	8.0	-18	10	(1)	12	(1)	106	
68	9	11	543	428	1403	124.1	7.8	-32	15	(2)	16	(2)	34	
69	8	9	232	485	1044	124.1	8.0	-23	16	(2)	20	(2)	157	
68	9	23	431	518	1257	124.2	8.0	-46	10	(1)	13	(1)	154	
69	8	1	334	420	1144	124.2	8.3	-30	19	(5)	20	(5)	54	
68	2	23	138	457	941	124.3	8.0	-4	11	(1)	13	(1)	35	
69	7	24	433	408	1245	124.6	8.3	5	8	(1)	8	(1)	97	
69	10	12	613	554	1447	124.7	7.4	-16	6	(3)	9	(4)	145	
68	1	21	449	615	1258	125.0	7.2	-30	11	(3)	19	(5)	110	
68	10	5	315	662	1149	125.5	8.0	-31	9	(2)	17	(3)	304	
70	7	22	533	462	1349	125.5	8.0	-36	15	(1)	17	(1)	77	
69	7	8	629	557	1450	126.1	7.3	-5	8	(2)	12	(3)	15	
68	10	9	248	710	1127	126.2	8.5	-53	17	(2)	37	(4)	346	
69	10	7	645	490	1524	126.3	999.9	999	99	(99)	99	(99)	82	NO ELECTROJET
68	2	16	210	423	1022	126.4	8.2	-42	27	(1)	28	(1)	116	
68	1	24	425	573	1240	126.7	8.5	-26	13	(1)	20	(1)	144	
67	10	8	303	655	1145	126.9	7.8	-36	10	(2)	19	(3)	276	
67	10	14	227	737	1111	126.9	8.0	-29	7	(1)	16	(2)	347	
68	2	26	109	481	924	127.0	9.0	6	2	(1)	2	(1)	61	
69	8	12	156	521	1021	127.4	8.3	-12	8	(2)	11	(2)	198	
69	10	20	500	678	1346	127.4	8.6	-17	6	(1)	12	(2)	43	
67	9	26	411	500	1252	127.6	7.0	-53	10	(8)	13	(10)	143	
70	7	20	541	444	1405	127.6	8.3	-19	17	(2)	19	(2)	56	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP.	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
67	9	23	428	480	1308	127.9	8.0	-58	17	(4)	21	(5)	111	
69	7	19	457	431	1324	128.0	8.8	-11	14	(1)	15	(1)	43	
68	1	27	400	535	1221	128.4	8.0	-2	5	(1)	7	(1)	171	
67	9	17	500	440	1342	128.7	8.0	-15	5	(2)	5	(2)	46	
69	10	15	533	598	1424	128.8	7.8	-12	2	(1)	3	(1)	179	
69	7	11	556	513	1426	128.9	8.3	-24	18	(1)	24	(1)	55	
68	2	9	241	427	1103	129.0	8.0	-63	14	(1)	15	(1)	45	
68	2	19	143	433	1004	129.0	8.3	-44	17	(2)	18	(2)	148	
68	1	14	512	716	1342	129.6	7.5	-41	5	(3)	11	(6)	29	
68	2	29	40	511	906	129.7	9.3	-49	10	(1)	13	(1)	98	
70	7	18	548	429	1420	129.7	8.3	-11	8	(1)	8	(1)	38	
68	9	14	501	443	1346	130.1	999.9	999	99	(99)	99	(99)	65	NO ELECTROJET
68	9	22	413	508	1302	130.2	8.0	-5	8	(3)	10	(4)	140	
69	10	10	606	526	1502	130.3	999.9	999	99	(99)	99	(99)	119	NO ELECTROJET
67	9	8	546	427	1431	130.4	7.5	-29	15	(5)	16	(5)	5	
69	8	7	223	464	1059	130.4	8.3	16	10	(2)	12	(2)	130	
68	9	26	348	551	1240	130.5	7.9	-22	10	(3)	15	(4)	192	
69	7	30	324	412	1200	130.5	8.3	-28	22	(1)	22	(1)	30	
68	9	30	323	599	1218	130.9	6.5	-7	6	(5)	10	(8)	239	
69	7	22	423	414	1301	131.0	7.9	-14	14	(1)	14	(1)	79	
68	10	4	257	649	1155	131.4	8.0	-52	18	(5)	34	(9)	290	
68	2	22	113	441	947	131.5	999.9	999	99	(99)	99	(99)	22	MISSING OR INCOMPLETE DATA
69	7	14	522	476	1403	131.6	999.9	999	99	(99)	99	(99)	30	NO ELECTROJET
69	10	23	420	729	1324	131.6	7.6	-12	4	(2)	9	(4)	78	
67	9	2	616	458	1505	131.8	8.0	-50	2	(1)	2	(1)	66	
69	10	5	638	468	1539	132.0	8.4	-22	4	(1)	4	(1)	56	
68	10	8	230	698	1133	132.1	8.5	-29	14	(2)	30	(4)	334	
68	2	2	310	471	1145	132.2	7.8	-53	23	(5)	28	(6)	30	
70	7	27	425	516	1311	132.8	8.6	-64	99	(99)	99	(99)	17	AMP. TOO BROAD TO CALCULATE
69	10	18	453	645	1402	132.9	8.6	-28	12	(2)	23	(3)	19	
69	8	2	249	425	1137	133.5	8.3	-3	3	(2)	3	(2)	67	
69	8	10	147	496	1036	133.6	8.3	-10	4	(1)	5	(1)	170	
69	7	25	349	406	1238	133.9	7.3	-14	9	(1)	9	(1)	108	
68	2	5	244	448	1127	134.2	7.5	-55	28	(4)	32	(4)	4	
68	1	23	400	587	1246	134.3	8.0	-26	14	(1)	23	(1)	133	
69	10	13	526	567	1439	134.4	7.8	-23	6	(2)	9	(3)	156	
69	7	17	447	446	1340	134.5	8.0	-29	12	(1)	13	(1)	17	
67	10	1	311	560	1224	135.4	7.5	-59	9	(4)	14	(6)	201	
69	7	9	545	542	1442	135.4	7.8	-24	9	(1)	13	(1)	27	
67	9	28	328	530	1241	135.6	7.5	-15	3	(2)	4	(2)	165	
69	10	26	339	780	1301	135.9	8.4	-8	3	(2)	7	(5)	115	
67	9	22	401	470	1314	136.2	7.0	-82	2	(1)	2	(1)	98	
68	9	13	443	437	1352	136.2	8.3	-68	20	(1)	22	(1)	53	
68	9	17	419	463	1330	136.2	8.2	-35	13	(5)	15	(6)	95	
68	2	18	119	429	1010	136.3	8.0	-8	11	(1)	11	(1)	134	
68	9	21	355	497	1308	136.3	8.0	-31	22	(5)	29	(6)	131	
69	10	8	560	519	1518	136.3	999.9	999	99	(99)	99	(99)	95	MISSING OR INCOMPLETE DATA
68	9	9	506	422	1414	136.4	8.5	-48	10	(2)	10	(2)	10	
67	9	19	417	450	1331	136.5	7.0	-31	4	(3)	4	(3)	67	
69	8	5	213	446	1114	136.6	7.8	-28	14	(2)	16	(2)	109	
68	2	28	17	500	912	136.9	7.0	-5	5	(2)	6	(2)	88	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	9	29	306	605	1224	136.9	999.9	999	99	(99)	99	(99)	224	MISSING OR INCOMPLETE DATA
67	9	16	433	430	1347	137.0	7.0	-30	8	(3)	8	(3)	38	
69	10	21	413	695	1339	137.1	7.0	-7	5	(5)	10	(10)	54	
68	1	13	447	731	1348	137.2	7.0	-44	5	(2)	11	(4)	17	
68	10	3	239	636	1201	137.4	7.5	-77	11	(3)	20	(5)	277	
69	7	20	413	425	1317	137.4	8.3	-7	7	(3)	7	(3)	57	
69	10	3	630	450	1554	137.7	8.6	-53	5	(1)	5	(1)	29	
68	1	29	311	511	1209	137.8	7.2	-65	23	(5)	31	(6)	196	
68	10	7	213	686	1138	138.0	8.5	-25	14	(1)	29	(2)	323	
67	9	10	504	423	1420	138.1	8.0	-33	8	(1)	8	(1)	28	
69	7	12	511	500	1419	138.1	8.3	-29	10	(2)	13	(2)	6	
69	10	16	447	613	1417	138.5	8.0	-13	9	(2)	16	(3)	190	
68	1	16	424	688	1329	138.7	8.0	-35	4	(1)	8	(2)	51	
68	2	11	151	422	1051	138.7	7.5	-70	22	(5)	23	(5)	70	
67	9	7	519	430	1437	138.8	999.9	999	99	(99)	99	(99)	118	NO ELECTROJET
68	2	21	52	449	953	138.9	999.9	999	99	(99)	99	(99)	12	MISSING OR INCOMPLETE DATA
70	7	21	448	452	1357	139.0	7.8	-21	11	(2)	12	(2)	67	
67	9	4	533	445	1452	139.5	999.9	999	99	(99)	99	(99)	86	NO ELECTROJET
68	3	1	2348	532	855	139.8	7.8	-20	13	(3)	18	(4)	120	
69	8	8	138	474	1051	139.8	9.0	-3	2	(2)	2	(2)	142	
69	7	31	238	415	1152	139.9	7.8	-24	20	(3)	20	(3)	42	
69	10	11	520	539	1454	140.0	999.9	999	99	(99)	99	(99)	132	ELECTROJET TOO BROAD TO CAL.
67	9	1	548	466	1510	140.3	7.0	-60	11	(2)	13	(2)	53	
68	1	19	360	645	1311	140.3	8.0	-14	9	(2)	17	(3)	87	
69	7	15	437	466	1355	140.9	8.0	-11	10	(1)	12	(1)	42	
68	2	14	124	421	1034	141.1	7.5	-16	16	(4)	17	(4)	99	
69	10	24	333	746	1316	141.4	999.9	999	99	(99)	99	(99)	92	NO ELECTROJET
68	2	24	24	472	936	141.5	999.9	999	99	(99)	99	(99)	46	MISSING OR INCOMPLETE DATA
68	2	4	220	455	1133	141.7	8.0	-52	29	(1)	34	(1)	48	
69	10	6	552	478	1532	141.7	7.3	-31	2	(1)	2	(1)	67	
68	1	22	336	601	1252	141.9	8.0	-30	16	(1)	27	(1)	122	
68	9	16	400	455	1336	142.3	8.0	-61	12	(3)	14	(3)	81	
68	9	12	424	432	1357	142.4	7.9	-29	9	(1)	9	(1)	41	
68	9	20	337	488	1314	142.4	999.9	999	99	(99)	99	(99)	119	NO ELECTROJET
68	9	24	312	528	1251	142.5	999.9	999	99	(99)	99	(99)	167	NO ELECTROJET
69	8	3	203	428	1129	142.8	7.8	4	8	(4)	8	(4)	80	
68	9	28	247	574	1229	142.9	7.8	-17	13	(1)	21	(1)	211	
69	8	11	101	507	1029	143.0	8.3	-1	2	(1)	2	(1)	184	
67	10	6	209	630	1156	143.3	7.2	-40	17	(3)	31	(5)	255	
67	10	9	152	668	1139	143.3	8.0	-21	10	(1)	20	(2)	289	
67	10	12	134	709	1123	143.3	8.0	-57	10	(1)	22	(2)	321	
68	10	2	221	624	1207	143.3	7.5	-43	9	(1)	16	(1)	262	
67	10	3	227	590	1213	143.4	7.3	-22	12	(2)	20	(3)	222	
69	10	1	623	434	1609	143.5	999.9	999	99	(99)	99	(99)	5	ELECTROJET TOO BROAD TO CAL.
67	9	30	244	550	1230	143.6	8.0	-87	8	(1)	12	(1)	188	
69	7	18	402	438	1332	143.8	7.8	-17	16	(1)	17	(1)	28	
67	9	27	301	510	1247	143.9	8.0	-30	7	(3)	9	(4)	155	
68	10	6	155	673	1144	143.9	8.0	-29	7	(1)	14	(2)	314	
69	10	14	440	582	1432	144.1	7.6	-9	5	(2)	8	(3)	168	
68	2	26	2354	490	918	144.2	7.0	9	4	(2)	5	(2)	74	
67	9	21	334	460	1320	144.5	7.0	-164	25	(10)	29	(11)	86	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
69	7	10	500	529	1435	144.6	7.0	-25	11	(3)	15	(4)	40	
68	10	10	128	721	1121	144.7	7.5	-33	15	(1)	34	(2)	358	
68	1	12	422	745	1354	145.0	9.0	-31	4	(2)	9	(4)	5	
68	1	28	247	523	1215	145.3	7.5	-40	19	(3)	26	(4)	182	
67	9	15	406	430	1353	145.4	7.0	-20	8	(3)	8	(3)	29	
69	10	9	513	513	1509	145.6	8.4	-17	3	(2)	4	(2)	106	
69	10	27	252	797	1254	145.7	9.6	-1	3	(1)	8	(2)	128	
69	8	6	128	451	1107	145.9	8.0	-20	13	(5)	15	(5)	123	
68	2	10	127	425	1057	146.1	7.3	-65	35	(2)	37	(2)	58	
70	7	26	340	504	1319	146.3	7.6	-92	15	(3)	20	(4)	4	
67	9	9	436	426	1426	146.5	8.0	-25	10	(2)	10	(2)	15	
69	7	21	328	420	1309	146.7	7.3	-2	19	(1)	20	(1)	65	
69	10	22	327	711	1332	146.9	7.6	-9	5	(1)	11	(2)	67	
67	9	6	451	434	1443	147.2	8.3	-2	1	(1)	1	(1)	108	
68	1	31	222	490	1157	147.2	7.7	-34	27	(3)	35	(3)	10	
69	7	13	427	488	1411	147.4	7.8	-22	4	(2)	5	(2)	16	
69	10	4	544	459	1547	147.4	2.2	-38	2	(1)	2	(1)	41	
67	9	3	506	451	1459	148.0	999.9	999	99	(99)	99	(99)	77	ELECTROJET TOO BROAD TO CAL.
69	10	17	400	628	1410	148.2	7.6	-5	2	(1)	3	(1)	4	
70	7	24	347	481	1334	148.3	7.0	-65	10	(1)	12	(1)	90	
68	9	15	342	448	1341	148.4	8.0	-58	11	(1)	12	(1)	73	
68	9	19	318	479	1319	148.4	7.5	-8	10	(2)	12	(2)	105	
68	9	11	406	428	1403	148.5	7.9	-33	26	(2)	28	(2)	33	
68	2	23	0	456	941	148.8	7.5	-10	18	(1)	21	(1)	34	
69	8	1	154	419	1145	149.2	7.8	-28	31	(3)	32	(3)	53	
69	8	9	52	484	1044	149.2	7.3	-11	14	(4)	17	(5)	156	
68	1	21	311	616	1258	149.5	8.2	-15	10	(3)	17	(5)	109	
69	7	24	254	409	1246	149.6	8.3	5	7	(2)	7	(2)	96	
69	10	12	433	553	1447	149.7	8.6	-16	2	(0)	3	(0)	144	
68	10	5	137	661	1150	149.9	8.5	-20	5	(2)	9	(3)	303	
70	7	22	354	461	1350	150.4	8.0	-22	5	(1)	5	(1)	76	
68	10	9	109	709	1127	150.6	999.9	999	99	(99)	99	(99)	345	MISSING OR INCOMPLETE DATA
68	2	16	33	423	1022	150.9	7.5	-37	24	(2)	25	(2)	115	
68	1	24	247	574	1240	151.2	7.2	-19	14	(5)	22	(8)	143	
69	7	8	450	558	1450	151.2	8.3	-4	6	(3)	9	(4)	14	
69	10	25	246	763	1309	151.2	999.9	999	99	(99)	99	(99)	105	ELECTROJET TOO BROAD TO CAL.
68	2	6	130	442	1121	151.3	7.3	-43	29	(2)	32	(2)	17	
69	10	7	505	489	1524	151.3	999.9	999	99	(99)	99	(99)	81	NO ELECTROJET
67	10	8	125	654	1145	151.5	7.0	-24	9	(1)	17	(1)	275	
67	10	14	50	736	1111	151.5	7.0	-28	7	(2)	16	(4)	346	
67	10	15	143	610	1202	151.6	7.2	-32	11	(2)	19	(3)	243	
67	9	26	234	500	1252	152.1	7.3	-42	9	(2)	12	(2)	142	
69	8	4	119	437	1122	152.3	7.8	-29	7	(1)	7	(1)	94	
67	9	23	250	480	1309	152.4	8.5	-27	4	(1)	5	(1)	110	
69	8	12	16	520	1021	152.4	7.5	28	4	(1)	5	(1)	197	
69	10	20	320	677	1347	152.4	9.0	-10	3	(0)	6	(0)	42	
69	7	27	219	406	1223	152.5	8.8	-102	4	(2)	4	(2)	129	
70	7	20	402	443	1405	152.5	7.8	-19	14	(4)	15	(4)	55	
69	7	19	318	431	1325	153.1	7.8	-11	16	(1)	17	(1)	42	
67	9	17	322	440	1342	153.2	7.0	-8	5	(1)	5	(1)	45	
68	12	19	5	433	1004	153.4	7.5	-32	15	(2)	16	(2)	147	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP.	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	2	9	104	428	1103	153.5	7.0	-67	25	(1)	27	(1)	44	
69	7	11	416	515	1427	153.9	-5.2	-11	7	(2)	9	(2)	54	
68	1	14	334	717	1342	154.1	9.0	-39	2	(1)	4	(2)	28	
68	2	28	2303	510	907	154.2	8.7	-40	5	(1)	6	(1)	97	
68	9	14	324	442	1347	154.5	999.9	999	99	(99)	99	(99)	64	NO ELECTROJET
70	7	18	409	429	1421	154.6	7.3	-8	6	(2)	6	(2)	37	
68	1	30	158	501	1203	154.7	7.0	-46	12	(4)	16	(5)	208	
68	9	10	347	424	1409	154.7	7.0	-35	11	(1)	11	(1)	19	
67	9	8	409	427	1432	154.9	7.0	-4	3	(1)	3	(1)	4	
68	9	26	211	551	1240	154.9	7.0	-5	4	(1)	6	(1)	191	
68	9	30	146	598	1218	155.3	7.0	5	2	(1)	3	(1)	238	
69	10	10	426	525	1500	155.3	999.9	999	99	(99)	99	(99)	118	MISSING OR INCOMPLETE DATA
69	8	7	43	463	1059	155.4	7.8	8	6	(3)	7	(3)	129	
67	9	5	423	439	1447	155.6	999.9	999	99	(99)	99	(99)	97	NO ELECTROJET
68	1	17	311	674	1323	155.6	7.5	-10	2	(1)	4	(2)	65	
69	7	30	144	411	1200	155.6	7.3	-22	30	(2)	31	(2)	29	
68	2	12	37	421	1046	155.8	5.7	-58	2	(1)	2	(1)	80	
68	10	4	120	648	1156	155.8	7.0	-39	9	(1)	17	(1)	289	
68	2	21	2337	450	947	156.0	7.0	-23	12	(1)	13	(1)	21	
67	9	2	438	459	1505	156.4	7.0	-34	8	(3)	9	(3)	65	
68	10	8	53	697	1133	156.5	7.5	-28	9	(1)	19	(2)	333	
69	10	23	240	728	1324	156.6	999.9	999	99	(99)	99	(99)	77	ELECTROJET TOO BROAD TO CAL.
68	2	2	132	471	1145	156.7	6.5	-42	19	(2)	23	(2)	29	
69	7	14	342	477	1404	156.7	999.9	999	99	(99)	99	(99)	29	NO ELECTROJET
70	7	16	416	417	1437	156.8	7.3	-9	11	(4)	11	(4)	15	
69	10	5	458	468	1539	157.0	999.9	999	99	(99)	99	(99)	55	NO ELECTROJET
70	7	27	246	516	1311	157.7	6.8	-47	16	(5)	22	(6)	16	
69	10	18	314	644	1402	157.9	8.4	-12	4	(2)	7	(3)	18	
69	7	25	208	409	1238	158.6	6.8	-1	10	(1)	10	(1)	107	
69	8	2	109	425	1137	158.6	6.3	-7	17	(3)	18	(3)	66	
69	8	10	7	495	1036	158.6	7.3	-6	6	(4)	7	(5)	169	
68	2	5	106	448	1127	158.7	6.2	-56	32	(1)	36	(1)	3	
68	1	23	223	588	1246	158.8	7.0	-27	13	(2)	21	(3)	132	
69	10	13	347	566	1440	159.4	7.4	-11	5	(1)	7	(1)	155	
69	7	17	307	447	1340	159.5	6.3	-17	15	(1)	17	(1)	16	
67	10	10	41	681	1134	159.6	6.0	999	99	(99)	99	(99)	301	ELECTROJET TOO BROAD TO CAL.
67	10	7	58	640	1151	159.7	6.0	-31	7	(1)	13	(1)	265	
67	10	13	23	722	1117	159.7	6.8	-59	6	(3)	13	(6)	334	
70	7	25	254	492	1327	159.7	7.6	-66	7	(3)	9	(3)	101	
67	10	1	133	560	1225	159.9	7.0	-61	5	(1)	7	(1)	200	
67	9	28	150	530	1241	160.1	6.2	-5	4	(1)	5	(1)	164	
67	9	25	207	490	1258	160.4	6.2	-26	4	(1)	5	(1)	131	
69	7	9	405	543	1443	160.4	8.3	-15	3	(2)	4	(2)	26	
68	9	13	305	437	1353	160.6	6.0	-43	6	(2)	6	(2)	52	
68	9	17	242	462	1330	160.6	6.5	-26	3	(2)	3	(2)	94	
67	9	22	223	470	1315	160.7	6.0	-62	99	(99)	99	(99)	97	AMP. TOO BROAD TO CALCULATE
68	9	21	218	497	1308	160.7	999.9	999	99	(99)	99	(99)	130	ELECTROJET TOO BROAD TO CAL.
68	9	9	328	422	1415	160.8	7.0	-46	8	(3)	8	(3)	9	
69	10	8	419	500	1517	161.0	5.8	-13	8	(1)	10	(1)	94	
69	10	26	160	779	1301	161.0	8.0	-5	3	(0)	7	(0)	116	
68	9	29	128	586	1224	161.3	6.0	-5	6	(1)	10	(1)	223	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	2	27	2240	499	912	161.4	6.5	-8	9	(1)	11	(1)	87	
67	9	16	255	430	1348	161.6	7.0	-44	8	(2)	8	(2)	37	
69	8	5	33	445	1114	161.7	7.5	-7	3	(4)	3	(4)	108	
68	10	3	102	636	1201	161.8	7.5	-71	8	(3)	15	(5)	276	
69	8	12	2331	532	1014	161.8	7.0	-12	8	(4)	11	(5)	211	
69	7	28	134	407	1215	161.9	6.3	-37	14	(5)	14	(5)	3	
67	9	13	311	420	1404	162.1	6.1	8	8	(4)	8	(4)	4	
68	1	29	133	512	1210	162.3	6.0	-61	18	(1)	24	(1)	195	
69	7	20	233	426	1317	162.4	6.3	-7	13	(2)	14	(2)	56	
67	9	10	326	423	1421	162.7	999.9	999	99	(99)	99	(99)	27	NO ELECTROJET
69	10	3	451	450	1554	162.8	6.0	-42	5	(2)	5	(2)	28	
68	1	16	246	689	1330	163.2	6.0	-36	3	(1)	6	(2)	50	
68	2	11	13	423	1052	163.2	5.5	-44	21	(3)	22	(3)	69	
69	7	12	331	501	1419	163.2	999.9	999	99	(99)	99	(99)	5	MISSING OR INCOMPLETE DATA
67	9	7	341	430	1437	163.3	6.0	-10	6	(1)	6	(1)	117	
68	2	20	2314	443	953	163.3	6.5	-38	20	(3)	22	(3)	11	
69	10	16	307	612	1417	163.5	7.7	-3	6	(2)	10	(3)	189	
70	7	21	308	452	1358	163.9	6.3	-22	14	(4)	16	(4)	66	
67	9	4	356	445	1454	164.1	999.9	999	99	(99)	99	(99)	85	NO ELECTROJET
68	3	1	2211	531	855	164.2	5.8	-26	10	(3)	14	(4)	119	
68	1	19	222	646	1311	164.8	6.0	-9	4	(1)	7	(1)	86	
69	8	7	2358	473	1052	164.8	5.3	-9	10	(1)	12	(1)	141	
67	9	1	410	467	1511	164.9	5.0	-36	3	(3)	3	(3)	52	
69	7	31	59	415	1153	164.9	6.0	-23	8	(4)	8	(4)	41	
69	10	11	340	538	1455	165.0	999.9	999	99	(99)	99	(99)	131	NO ELECTROJET
68	2	13	2346	421	1034	165.6	5.3	-25	18	(1)	19	(1)	98	
70	7	19	316	435	1413	166.0	5.8	-17	16	(2)	17	(2)	47	
68	1	22	158	603	1253	166.4	6.5	-15	4	(2)	6	(3)	121	
69	10	24	153	745	1317	166.4	6.3	0	2	(0)	4	(0)	91	
68	9	16	223	455	1336	166.7	999.9	999	99	(99)	99	(99)	80	NO ELECTROJET
69	10	6	412	478	1532	166.7	999.9	999	99	(99)	99	(99)	66	NO ELECTROJET
68	9	20	159	487	1314	166.8	5.0	-17	6	(4)	7	(5)	118	
68	9	24	135	528	1252	166.9	999.9	999	99	(99)	99	(99)	166	NO ELECTROJET
68	9	28	110	574	1229	167.3	5.5	3	4	(2)	6	(3)	210	
69	10	19	226	654	1355	167.6	999.9	999	99	(99)	99	(99)	31	NO ELECTROJET
68	10	2	44	623	1207	167.7	5.5	-68	13	(7)	23	(12)	261	
67	10	9	14	667	1140	167.8	5.0	-6	5	(1)	10	(2)	288	
67	10	11	2356	708	1123	167.8	5.5	-26	4	(1)	8	(2)	320	
67	10	6	32	630	1157	167.9	5.5	-32	9	(2)	16	(3)	254	
69	8	3	24	430	1130	168.0	4.8	24	8	(1)	8	(1)	79	
69	8	10	2322	507	1029	168.0	4.8	-2	5	(2)	6	(2)	183	
68	1	25	133	562	1234	168.1	5.2	-19	6	(1)	9	(1)	149	
70	7	17	323	422	1429	168.1	5.8	-14	17	(3)	18	(3)	27	
68	2	7	16	437	1115	168.3	4.5	-27	18	(1)	20	(1)	27	
68	10	6	16	641	1145	168.3	999.9	999	99	(99)	99	(99)	313	MISSING OR INCOMPLETE DATA
67	9	27	123	510	1247	168.4	5.0	-20	2	(1)	2	(1)	154	
69	10	1	443	434	1609	168.5	999.9	999	99	(99)	99	(99)	4	NO ELECTROJET
67	9	24	139	480	1304	168.7	4.5	-28	8	(2)	10	(2)	122	
68	2	26	2217	490	918	168.7	5.0	-12	7	(1)	9	(1)	73	
69	7	18	223	439	1333	168.8	5.8	-12	10	(1)	11	(1)	27	
67	9	21	156	460	1320	169.0	5.0	-138	13	(2)	15	(2)	85	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	10	9	2351	720	1122	169.1	4.5	-28	8	(2)	18	(4)	357	
70	7	28	153	528	1304	169.1	4.8	-50	22	(5)	31	(7)	28	
69	7	10	321	529	1435	169.7	3.6	-25	10	(2)	14	(2)	39	
68	1	28	109	524	1216	169.8	4.8	-47	15	(1)	21	(1)	181	
70	7	15	329	413	1445	170.3	6.6	-15	7	(1)	7	(1)	5	
67	9	12	243	422	1409	170.5	999.9	999	99	(99)	99	(99)	46	MISSING OR INCOMPLETE DATA
68	2	9	2350	425	1058	170.6	4.6	-43	15	(2)	16	(2)	57	
68	2	19	2251	438	959	170.6	4.5	-20	15	(3)	16	(3)	160	
69	10	9	333	512	1510	170.7	999.9	999	99	(99)	99	(99)	105	ELECTROJET TOO BROAD TO CAL.
69	10	27	113	796	1254	170.8	5.0	1	5	(1)	13	(2)	127	
67	9	9	258	425	1426	171.1	4.0	-50	15	(1)	16	(1)	14	
69	8	5	2348	453	1107	171.1	4.3	-22	20	(1)	23	(1)	122	
69	7	29	49	408	1208	171.2	4.3	-16	3	(2)	3	(2)	16	
70	7	26	201	503	1319	171.2	4.7	-123	22	(3)	29	(4)	3	
68	1	31	44	491	1158	171.7	4.0	-27	26	(1)	33	(1)	9	
67	9	6	313	434	1443	171.8	3.8	-19	9	(2)	9	(2)	107	
69	10	22	147	710	1332	171.9	999.9	999	99	(99)	99	(99)	66	NO ELECTROJET
69	10	4	405	458	1547	172.4	999.9	999	99	(99)	99	(99)	40	NO ELECTROJET
69	7	13	247	489	1412	172.5	4.8	-15	14	(1)	18	(1)	15	
68	9	19	141	479	1320	172.8	4.5	6	7	(1)	8	(1)	104	
68	9	11	228	428	1404	172.9	4.2	-34	19	(2)	20	(2)	32	
68	9	23	117	517	1257	173.0	5.0	-23	5	(1)	6	(1)	153	
68	2	22	2222	456	941	173.2	4.3	-15	18	(1)	21	(1)	33	
69	10	17	220	627	1410	173.2	999.9	999	99	(99)	99	(99)	3	NO ELECTROJET
70	7	24	208	480	1335	173.2	4.0	-36	9	(2)	11	(2)	89	
68	9	27	52	562	1235	173.3	4.5	-13	13	(4)	20	(6)	202	
68	1	21	134	617	1259	174.0	3.0	-21	8	(1)	14	(1)	108	
69	8	8	2313	483	1044	174.2	3.3	-5	10	(2)	12	(2)	155	
68	10	5	0	660	12	174.3	999.9	999	99	(99)	99	(99)	302	MISSING OR INCOMPLETE DATA
69	7	24	114	408	1246	174.7	3.6	-1	10	(2)	10	(2)	95	
70	7	22	215	460	1350	175.3	2.8	-23	11	(2)	13	(2)	75	
68	2	15	2255	423	1022	175.4	3.3	-52	22	(5)	23	(5)	114	
68	1	24	109	575	1240	175.7	4.3	-20	7	(3)	11	(4)	142	
68	2	5	2353	442	1122	175.8	3.5	-35	16	(3)	18	(3)	16	
67	10	5	5	610	1202	176.1	3.0	-36	12	(2)	21	(3)	242	
67	10	2	22	570	1219	176.2	3.5	-35	7	(1)	11	(1)	212	
69	7	8	310	559	1451	176.2	4.4	3	3	(1)	4	(1)	13	
69	10	25	107	761	1309	176.2	999.9	999	99	(99)	99	(99)	104	NO ELECTROJET
69	10	7	326	489	1525	176.3	3.6	-43	6	(1)	7	(1)	80	
67	9	29	39	540	1236	176.4	3.0	-104	6	(3)	8	(4)	175	
67	9	26	56	500	1253	176.7	2.8	-35	8	(3)	10	(4)	141	
67	9	23	112	470	1309	177.0	3.2	-40	12	(1)	14	(1)	109	
69	8	3	2339	437	1122	177.3	2.8	-28	9	(2)	10	(2)	93	
69	8	11	2237	519	1022	177.4	2.6	10	16	(2)	22	(2)	196	
69	10	20	141	676	1347	177.4	999.9	999	99	(99)	99	(99)	41	ELECTROJET TOO BROAD TO CAL.
69	7	27	39	406	1223	177.6	2.8	-126	23	(5)	23	(5)	128	
68	2	18	2227	433	1005	177.9	2.2	-26	15	(1)	16	(1)	146	
68	2	8	2326	428	1104	178.0	3.0	-45	17	(2)	18	(2)	43	
69	7	19	138	432	1325	178.1	2.8	-13	20	(2)	22	(2)	41	
69	10	2	357	441	1602	178.2	2.3	-45	7	(2)	7	(2)	16	
67	9	14	200	430	1359	178.3	2.5	-26	5	(2)	5	(2)	17	

YR.	MON.	DAY	U.T.	ALT.	L.T.	LONG.	LAT.	MIN. VAL.	AMP	ERR	AMP. 400KM	ERR	FRAME	COMMENTS
68	2	28	2125	509	907	178.7	999.9	999	99	(99)	99	(99)	96	NO ELECTROJET
67	9	11	216	422	1416	178.9	3.0	-7	6	(1)	6	(1)	38	
68	9	14	147	442	1347	178.9	2.9	-68	13	(2)	14	(2)	63	
68	9	22	59	507	1303	179.0	3.0	-26	13	(2)	17	(2)	138	
69	7	11	236	515	1427	179.0	2.8	-19	12	(2)	16	(2)	53	
68	9	10	210	424	1410	179.1	2.8	-52	25	(2)	26	(2)	18	
68	1	30	20	502	1204	179.2	2.8	-46	9	(2)	12	(2)	207	
68	9	26	34	550	1241	179.3	2.7	-16	9	(3)	13	(4)	190	
67	9	8	231	427	1432	179.5	3.0	-18	14	(1)	15	(1)	3	
70	7	18	230	428	1421	179.5	2.5	-10	13	(1)	14	(1)	36	
68	9	30	9	598	1218	179.7	2.8	6	4	(1)	6	(1)	237	