GRAVITY SURVEY IN THE CENTRAL RANGES, HONSHU, JAPAN

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(Received July 1, 1981; Revised June 10, 1982)

An extensive gravity survey was carried out from 1978 through 1980 in the area of the Central Ranges (Japan Alps), Honshu, which consist of the three largest mountain ranges in Japan (Hida, Akaishi, and Kiso). The Central Ranges area of 40,000 km² has provided about 3,700 gravity data including 2,214 newly measured data, from which a Bouguer anomaly map was drawn. Bouguer and terrain corrections were made with a topographic data file of 230 × 280 m² grid at a distance of up to 80 km from any measuring point, taking the earth's sphericity into account. A value of 2.64 g/cm³ was used for the average density of surface features, and this was derived from the observed gravity data using a newly proposed least-squares method. The possible errors involved in the analysis were critically evaluated. The newly drawn anomaly map has an overall accuracy of 5 mgal ($=5 \times 10^{-5}$ m·sec⁻²). The Central Ranges area is known as a broad zone of strong negative anomaly, which has now been resolved into two parts, one along the axis of the Hida mountain range and the other along the northern Fossa Magna. Bouguer anomaly and topography are correlated negatively in the Hida range, marginally in the Akaishi range and positively in the Kiso range, suggesting that the correlation becomes progressively negative with increasing massiveness of mountain structure. The Central Ranges are bounded by the Itoigawa–Shizuoka Tectonic Line to the east and by the Atera fault to the southwest across which the regional Bouguer anomaly pattern changes sharply. The Atera fault is a first-class active fault along which a narrow but very clear Bouguer low is observed that may be attributable to fault gouge material.

1. Introduction

The land gravity data so far obtained through nation-wide measurements in Japan have been summarized by Tsuboi *et al.* (1955), the GEOGRAPHICAL SURVEY INSTITUTE (GSI) (1964) and Hagiwara (1967). Rather local gravity surveys have been carried out in Central Honshu by the Geological Survey of Japan

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(GSJ) (e.g., CHUJO and SUDA, 1972) and other institutions. However, the gravity data available in and around the Central Ranges (Japan Alps) comprising the highest mountain ranges in Japan are very few, as the past measurements were restricted mainly to the first and second order bench marks and triangulation stations along the major national routes. In 1978–1980 we performed an extensive gravity survey in the area of the Central Ranges to obtain a detailed Bouguer anomaly map. A part of the results has already been reported (NOZAKI, 1980). This paper describes the procedure of the survey, the method of analysis and several outstanding features of the new anomaly map. A full discussion of the Bouguer anomaly distribution will be made in a separate paper.

2. Outline of the Area of Survey

Figure 1 shows the area of our survey, which is located at the junction of the northeastern Honshu arc, the southwestern Honshu arc and the Izu–Bonin arc. All the mountains in Japan more than 3,000 m high, except for Mt. Fuji, gather in the central portion of this area. This portion is called the Central Ranges or the Japan Alps, comprising three mountain ranges (Hida, Kiso, and Akaishi) that align in the NNW–SSE direction in echelon, each trending approximately in the NNE–SSW direction (see Fig. 9). This trend is perpendicular to the inferred orientation of horizontal compression now causing intraplate earthquakes in Japan

Fig. 1. Map showing the area of survey.

(OKADA and ANDO, 1979).

Figure 2 shows a geological map simplified from HIROKAWA (1978). The Central Ranges have uplifted largely through the late Quaternary. The rate of uplifting is 1–3 mm/year in the Hida mountains. This is highest rate ever known geologically in Japan (RESEARCH GROUP FOR QUATERNARY TECTONIC MAP, 1973). Even a higher rate—4 mm/year—has been reported from geodetic measurements made near the southern periphery of the Akaishi mountain range (DAMBARA, 1971). The uplift in this region has sometimes been discussed in conjunction with the subduction of the Philippine sea plate along the Nankai trough (ANDO, 1975). To the west of the Central Ranges many active faults of predominantly strike slip-type develop, among which the Atera fault (AF), 60 km long and trending in the NW–SE direction, is one of the most active faults in Japan (RESEARCH GROUP FOR ACTIVE FAULTS, 1980). The Central Ranges are bounded by this fault to the

Fig. 2. Simplified geological map of the Central Ranges area after HIROKAWA (1978). 1, Quaternary sediment; 2, Tertiary sediment; 3, basal sediment; 4, igneous rocks and/or metamorphic rocks; 5, metamorphic rocks with ultrabasic rocks (Sanbagawa metamorphic belt); M, Matsumoto basin; K, Kofu basin; I, Ina basin; AF, Atera Fault; MTL, Median Tectonic Line; ISTL, Itoigawa-Shizuoka Tectonic Line; ATL, Akaishi Tectonic Line.

southwest, where we made a particularly detailed survey. A similar detailed survey has also been carried out along the Median Tectonic Line (MTL) which delineates the western foot of the Akaishi mountain range as a deep and straight fault-line valley (HUZITA, 1980). The Central Ranges are bounded by the Itoigawa-Shizuoka Tectonic Line (ISTL) to the east, which is a huge fault at the western periphery of the Fossa Magna geologically dividing Honshu Island into Northeast Honshu and Southwest Honshu. The Fossa Magna has a complex geologic history but is presently a strongly folded zone forming the Matsumoto sedimentary basin northward and southward, the Fuji River Valley, a thick sedimentary trough (HUZITA, 1980).

3. Measurements

Gravity survey was carried out by means of a LaCoste & Romberg gravimeter, G-484, in the areas of the Akaishi, Hida, and Kiso mountain ranges mainly during the summers of 1978, 1979, and 1980, respectively. In total 2,214 new gravity stations have been established over an area of approximately $2^{\circ} \times 2^{\circ}$ (137° – 139° E, 34.5° – 36.5° N). This area contains 3,722 stations (1,360 by GSI and 148 by GSJ) at present. Figure 3 shows the locations of these gravity stations. Few

Fig. 3. Locations of gravity stations including the base station (NGY, Nagoya) and the two sub-base stations (TAK, Takayama; MTM, Matsumoto).

new measurements have been made east of 138.5°E . About 80% of the measurements were made at spot heights on 1/25,000 scale topographic maps of the GSI and most of the remaining ones at the bench marks and the triangulation stations installed by the GSI or other public and private institutions. About 130 measurements were made at points where the elevation heights were known only from GSI topographic map contours with a 10 m interval. The geographical latitude and longitude of each station were read on a map with a precision of $1''$ (~ 30 m) by an X-Y reader.

For the base station of the measurements we used the first order gravity station at Nagoya University ($\phi=35^{\circ}09.1'\text{N}$, $\lambda=136^{\circ}58.3'\text{E}$, $h=45$ m, and $g_s=979,732.63$ mgal) in the Japan Gravity Standardization Net 1975 (GSI, 1976). Since the Hida mountain range area is remote from this base station, we set up two sub-base stations in this area, each of which was linked directly to the base station. The positions of these three stations are shown in Fig. 3. We adopted a closed loop method: the first and the final measurements made during a day were made at the same station. If the two measurements agreed within a certain allowance, the loop was said to be closed. A closed loop was successively linked to the preceding one, the first and the final loops being linked to the base (sub-base) stations. A correction factor of 1.000768 was applied to the scale constants of the G-484 (NAKAGAWA *et al.*, 1981). A measured value was corrected for the tidal variations and the drift rate. Gravity tide was calculated by using the program written by NAKAI (1979). Drift rate was estimated by the method described below, which shows a seasonal variation ranging from -18 to $+30$ $\mu\text{gal/day}$. The period of a survey is mostly 1 day, or less than 9 days at most.

The nominal instrumental accuracy of the G-484 is 10 μgal (Instruction Manual, 1978). The accuracy of measurement, however, is limited by various conditions. The major sources of error include (a) wrong location of a given spot height, (b) uncertainty involved in drift rate estimation and (c) instrumental "tare" which causes a sudden change in spring length. Since the error due to (a) is serious, it was most carefully checked at every measurement. Moreover we did not use a spot height on a steep slope because a spot height of the GSI is not supported by an actual land mark as accurate as a bench mark or a triangulation station. The relevant error is therefore largely due to the uncertainty of a spot height of 1 to 5 m dependent upon the conditions of exposure to the sky (personal communication from the GSI, 1981). This uncertainty corresponds to an error of 0.2 to 1.0 mgal in the Bouguer anomaly. The uncertainty associated with (b) is schematically illustrated in Fig. 4. In general the apparent drift rate during a survey, rate 1, is different in a systematic way from that at the base station, rate 2. Rate 1 was determined from the measurements at the base station just before and after a field survey. When a field survey consisted of several loops each of which was closed at a sub-base station, rate 1 was determined for each loop from the measurements made at the sub-base station. We used rate 1 for the calculation of individual gravity values. Rate 2 was determined from a least-squares straight line fit to the

Fig. 4. Schematic illustration for the two methods of drift rate determination. Rate 1 is used for obtaining individual gravity values. If a field survey consists of several loops, each of which is closed at a sub-base station, drift rates are determined for each loop from the measurements made at the sub-base station. Rate 2 is used for calculating the closure errors at the base and the sub-base stations.

Fig. 5. Observed closure errors against time intervals involved. Solid circles, open circles, and triangles represent closure errors at Nagoya (base station), Takayama (sub-base station), and Matsumoto (sub-base station), respectively.

measurements made at the base station repeated before a field survey. We used this drift rate to calculate closure errors at the base and the sub-base stations. Figure 5 plots the computed closure errors against the relevant time intervals. Most of the closure errors are less than 0.05 mgal for time intervals from several

to several tens of hours and are less than 0.1 mgal for longer intervals. The errors exceeding 0.1 mgal may be regarded as those due to "tares." The maximum closure errors in 1978, 1979, and 1980 were 0.15, 0.24, and 0.18 mgals respectively, which give some idea of the possible error arising from (c). A closure error as large as 0.24 mgal occurred in a loop containing the highest station (3,047 m; No. 994 in Appendix), which we climbed carrying a gravimeter on shoulder. In Fig. 5 it is seen that the mean of the closure errors for relatively short time intervals is somewhat different from that for longer time intervals. This difference is interpreted as being due to a systematic difference between the apparent drift rate during a field survey and that before the survey (Fig. 4). The difference is of the order of 0.05 mgal which indicates the uncertainty associated with (b). All the above discussions suggest that the measured gravity values are accurate to ± 0.2 mgal.

Since the GSI data distribute over the whole area of our survey, it is essential to connect them to our data. We selected 63 GSI stations from various regions and reoccupied them. The difference between the two sets of data was 0.007 ± 0.191 mgal. The scatter is relatively large. We, however, note that some of the bench marks might have been moved by several to a few tens of meters after the GSI measurements owing to recent road system development. The standard deviation mentioned above, therefore, would give an upper bound for the real scatter. In any case it is true that we found little systematic difference between the GSI and our data. About 150 GSJ data were available from the southwestern portion of our survey area (CHUJO and SUDA, 1972). They were connected to the GSI data at some overlapping stations (Suda and Chujo, personal communication, 1980).

4. Bouguer Anomalies

A Bouguer anomaly value g is evaluated in principle from

$$g_B = (g - B + T) - (\gamma - \beta h) + \int_0^h \delta\beta dz, \quad (1)$$

where g , measured gravity value; B , Bouguer correction; T , terrain correction; γ , normal gravity on the geoid; β , vertical gradient, dg/dz , of the normal gravity; h , station height; and $\delta\beta$, dg/dz anomaly due to mass anomaly below the geoid. In (1) a constant value of 0.3086 mgal/m was assumed for β , and γ was calculated according to Gravity Formula 1967 (IAG, 1971). The third term related to $\delta\beta$ was neglected in the present study although such a simplification may not be warranted particularly in the area of the Hida mountains where large negative Bouguer anomalies were observed (Fig. 10). The Bouguer anomaly profile across the axis of the Hida mountain range can be approximated by a harmonic wave with a half wavelength of $L=60$ km and a half amplitude of $A=60$ mgal (see Fig. 12(a)). The resulting maximum dg/dz anomaly is $\delta\beta = -\pi A/L = -0.003$ mgal/m, which corresponds to free air reduction of -9 mgal at a station of

3,000 m altitude. This value yields a possible upper limit for the error arising from neglecting the dg/dz anomaly. For most stations the error would be much smaller.

Usually, the Bouguer correction is made for an infinite slab of thickness h . Our survey, however, covered an extensive area of 40,000 km² with elevation heights ranging from 0 to 3,000 m, for which the earth's sphericity may not be ignored (HAGIWARA, 1975). We made a spherical Bouguer correction over a finite area using the formula presented by HAGIWARA (1975). A spherical terrain correction (TAMADA, 1979) was made in almost the same area as for the Bouguer correction using a modified version of the program written by NOZAKI (1981). The program incorporates a terrain data file of the GSI in regular grids with a mesh size of about 230×280 m² (7.5'' in latitude and 11.25'' in longitude) and changes the computational procedure according to the distance from a measuring point:

(A) In a circular region within a radius of 200 m from a measuring point the topography is approximated by four to eight cone segments with a common apex at the measuring point as shown in Fig. 6. The basal arc of a cone segment has a common radius of 200 m at a height level given by the corresponding mesh height. Figure 6 shows the case for the measurement at Mt. Shiomi (No. 994).

(B) For each of the first nine meshes around the measuring point but outside the circular region (A) the topographic mass is approximated by either a right prism or a right prism segment cut by a circular cylinder of a radius 200 m (see Fig. 6).

(C) Within a distance of 7 km from the measuring point but outside the rectangular region (B) the topographic mass in each mesh is approximated by a right prism.

(D) Within a distance of 20 km from the measuring point but outside the region (C) a line mass is assigned to each mesh.

(E) Outside the region (D) a line mass is assigned to every 16 meshes.

The procedures (A) and (B) were checked against a more accurate calculation: the elevation heights in the first nine meshes were read directly from topographic maps at 30×30 points and further interpolated to produce 300×300 right prisms for each of which gravity attraction was calculated. We made such a check at three measuring points and one "hypothetical" measuring point. The former includes the summit of Mt. Shiomi (3,047 m; No. 994; see Fig. 6) and two spot heights (Nos. 722 and 740) along the trail of a deep ravine in the Akaishi mountains. The hypothetical measuring point is located at the bottom of an extremely deep ravine immediately below the summit of Mt. Akaishi. We selected these four points because of their steep features nearby. Table 1 shows the result of a comparison between the procedures (A) and (B) and the more accurate calculation described above. The maximum difference occurs at Mt. Shiomi (No. 994), where the procedures (A) and (B) gave a value of 8.4 mgal, whereas a more accurate calculation gives a value of 7.2 mgal. This result suggests that the error arising from (A) and (B) is less than 1.5 mgal except for some special cases. The pro-

(a)

(b)

Fig. 6. Schematic illustration for the correction of topography over the first nine meshes (mesh size $=230 \times 280\text{ m}^2$) around a measuring point. (a) Actual topography (Mt. Shiomi, No. 994), (b) approximated topography.

Table 1. Comparison of terrain correction values between the present method and a more accurate calculation.

	(A)+(B) (mgal)	More accurate (mgal)	Difference (mgal)
No. 722	2.2	2.4	-0.2
No. 740	2.3	1.7	+0.6
No. 994	8.4	7.2	+1.2
No. —*	7.3	7.3	0.0

* Hypothetical measuring point.

cedure (C) was checked against a more accurate calculation based on direct reading of elevation heights from topographic maps. Such a check was made at one of the above measuring points (No. 722), suggesting that the error due to (C) is of the order of 0.5 mgal. In (D) and (E) the line mass approximation was confirmed to be sufficiently accurate for our purpose.

A question is to what spatial extent the correction should be made in a trade-off between accuracy and computational time. In principle the correction does not converge unless it extends to the whole earth. Our aim is to obtain Bouguer anomaly values that may be biased only constantly for the whole area of survey. We selected several representative stations for each of which Bouguer and terrain corrections B and T were evaluated over a circular region with a radius of 200 km containing the whole surveying area. We then computed B and T for each of these stations in a distance range R which was successively varied from 5 to 110 km.

Fig. 7. Correction term ($B-T$) vs. distance R for several representative stations. The values at $R \sim 200$ km represent those which may be biased only constantly over the area of survey. Arrows indicate the distance at which ($B-T$) takes a value 1.5 mgal smaller than that at $R \sim 200$ km. (1) Mt. Fuji (3,775.6 m), (2) Mt. Shiomi (3,046.9 m), (3) Mt. Kisokoma (2,956.3 m), (4) Murodo (2,410 m), and (5) Kurobe-Daira (1,828.2 m).

Figure 7 shows how the correction term ($B-T$) approaches the one with the ultimate radius of 200 km as R increases. The difference becomes less than 1.5 mgal at $R=80$ km in all the cases we examined, suggesting that if we take $R=80$ km, the corrections can be made with a relative accuracy of 1.5 mgal.

Bouguer and terrain corrections must be made with an appropriate value of density as, for example, a density change of 0.2 g/cm^3 causes a gravity difference of about 25 mgal at a station of 3,000 m altitude. We estimated a true (average) density ρ_0 for surface features based on our gravity data by a method suggested by FUKAO *et al.* (1981). The RHS of (1) can be calculated, by neglecting the third term, as a function of assumed density ρ :

$$\begin{aligned} g_B(\rho) &= g - B(\rho) + T(\rho) - \gamma + \beta h \\ &= F - H\rho, \end{aligned} \quad (2)$$

where

$$F = g - \gamma + \beta h \quad (3)$$

is free-air anomaly and

$$H = B(1) - T(1) \quad (4)$$

is understood as a topographic factor. The method of FUKAO *et al.* (1981) subdivides the measuring area into meshes of equal size in a virtual attempt to determine a set of mesh-averaged gravity values $\bar{g}_B$. What then follows is the calculation of an optimum value of ρ_0 and optimum values of $\bar{g}_B$, $[\rho_0]$ and $[\bar{g}_B]$, as functions of mesh size by minimizing in a least-squares sense the differences between $g_B(\rho)$ and $\bar{g}_B$. Figure 8 shows the result of the application of this method which is

Fig. 8. Plot of an optimum density as a function of mesh size. The mesh size is changed from $0.5' \times 0.5'$ to $120' \times 120'$ where $1' \times 1' = 1.53 \times 1.86 \text{ km}^2$. The plot indicates a terrain density of about 2.64 g/cm^3 .

slightly different from the earlier result of FUKAO *et al.* (1981) who included some more inconsistent data. The mesh size was changed from $120' \times 120'$ (the whole measuring area) to $0.5' \times 0.5'$. The calculated density $[\rho_0]$ shows an approximately constant value of 2.64 g/cm^3 for mesh sizes from $1'$ to $10'$. This constancy indicates that the Bouguer anomaly is little correlated with topography in a linear dimension of less than 20 km and that the Central Ranges area of $2^\circ \times 2^\circ$ has an average density of 2.64 g/cm^3 for surfaces. For mesh sizes larger than $10'$, $[\rho_0]$ decreases rapidly with increasing mesh size although it is still of a finite value of 1.50 g/cm^3 at the largest mesh size. This decrease is diagnostic of a tendency toward isostasy. A still finite $[\rho_0]$ for the whole measuring area, however, suggests that a complete isostasy is not achieved in this limited area.

The effect of lateral variation of density is difficult to evaluate. If, for example, the Matsumoto sedimentary basin at relatively high altitudes of about 600 m had a density 10% smaller than the average, the use of the value 2.64 g/cm^3 would have led to an overestimation of the negative anomalies of this basin by an

Fig. 9. Summit level map of the Central Ranges area with 200 m contour (after RESEARCH GROUP FOR QUATERNARY TECTONIC MAP, 1969). A loop with dashes indicates an area of depression. Hd, Hida mountains; Ks, Kiso mountains; Ak, Akaishi mountains; and Fj, Mt. Fuji. See Fig. 2 for other symbols.

amount of 7 mgal. For other sedimentary basins at lower altitudes, the degree of overestimation would be proportionally smaller. Along the above line of discussion we made spherical Bouguer and terrain corrections over a distance range 80 km using a uniform density of 2.64 g/cm^3 . All the gravity values with and without corrections are listed in Appendix.

Fig. 10. Bouguer anomaly map with 5 mgal contour. A loop with barbs indicates an area of Bouguer low. Mountainous areas higher than 2,000 m are indicated by hatching. See Fig. 2 for the explanation of symbols.

5. Bouguer Anomaly Map

Bouguer anomaly values were converted into grid data by a simple averaging procedure. The grid mesh size was $1' \times 1'$. This data set was subjected to machine contouring using the BRIGGS' (1974) method in which the iteration was repeated 500 times. Figure 10 shows the Bouguer anomaly map with 5 mgal contour so obtained. The summit level map with 200 m contour is shown in Fig. 9 for comparison. We also constructed 1 mgal contour maps in some restricted regions using the smaller-mesh-size data. We briefly describe several important features of these maps. The areas subject to description are indicated by cross-sections in Fig. 11.

(1) TSUBOI *et al.* (1955) and HAGIWARA (1967) noted a broad zone of large negative anomalies in the area of the Central Ranges. This broad zone is now resolved into two parts, one along the axis of the Hida mountain range and the other along the northern Fossa Magna (the Matsumoto sedimentary basin). Two separated zones of negative anomaly are also seen in Fig. 12(a) which shows the Bouguer anomaly profile across the Hida range for cross-section AA' of Fig.

Fig. 11. Bouguer anomaly map with 5 mgal contour (see Fig. 10). The cross-sections indicated appear in Figs. 12-15.

Fig. 12. Topography and gravity profiles: (a) across the Hida range for cross-section AA' of Fig. 11, (b) across the Kiso range for cross-section BB', and (c) across the Akaishi range for cross-section CC'. The positions of the Itoigawa-Shizuoka Tectonic Line (ISTL), the Median Tectonic Line (MTL) and the Inadani Fault Systems (IFS), and those of the Matsumoto basin (M), the Ina basin (I) and the Kofu basin (K) are indicated.

11. The correction of dg/dz anomaly would emphasize more significantly the negative anomaly along the Hida mountain range, while the correction for lateral density variation would reduce the negative anomaly in the Matsumoto basin. The negative anomaly along the Hida mountain range suggests a crustal "root" beneath it, which is, however, not large enough to sustain the overlying topographic mass isostatically (NOZAKI, 1980).

(2) The Central Ranges consist of the Hida, Akaishi, and Kiso mountain ranges. As shown in Fig. 12, the correlation of Bouguer anomaly with topography is strongly negative in the Hida mountains, marginally positive in the Akaishi mountains, and significantly positive in the Kiso mountains. It is intriguing that the mountain system becomes less massive in such an order.

(3) The Hida, Akaishi, and Kiso mountain ranges accompany the Matsumoto basin (the northern Fossa Magna), the Kofu basin (the southern Fossa Magna), and the Ina basin on their eastern feet respectively (see Fig. 2). They are characterized by a strongly negative Bouguer anomaly that can be attributed to thick late Tertiary to Quaternary sediments. The anomaly reaches its maximum near

Fig. 13. Topography and gravity profiles across the Atera fault (AF) for cross-section DD' of Fig. 11. Arrow indicates the narrow belt of Bouguer low that can be attributed to the fault gouge materials along the fault.

the western periphery of each basin as shown in Fig. 12. We note that the Matsu-moto and the Kofu basins accompany the ISTL on their western peripheries as huge thrust faults and that the Ina basin accompanies the Ina valley thrust faults on its western periphery.

(4) The southwestward extension of the Hida mountain range is morphologically cut sharply by the Atera fault scarp across which there is an abrupt height

Fig. 14. Bouguer anomaly maps with 1 mgal contour in the vicinity of the Atera fault (AF): (a) smoothed Bouguer anomaly, (b) residual Bouguer anomaly. Smoothing was done only in the NE-SW direction perpendicular to the strike of the fault. In (b) a thick contour indicates a residual anomaly of 0 mgal. An area of residual anomaly of less than -1 mgal is shown by hatching. Arrow stands for an area of residual anomaly in the range -1 to 0 mgals.

difference of 700 to 800 m (see Fig. 9). The negative Bouguer anomaly belt parallel to the Hida range also vanishes southwestward in the vicinity of the Atera fault across which there is a marked difference in regional Bouguer anomaly pattern. Figure 13 shows the topography and gravity profiles across this fault for cross-section DD' of Fig. 11, which clearly indicates that the Atera fault is not only the morphological boundary but also the gravimetric boundary.

(5) The Atera fault is a first-class active fault of the strike-slip type with some dip-slip components, 60 km long trending in the NW-SE direction, along which a narrow but very clear Bouguer low is observed as indicated by the arrow in Fig. 13, which can be attributed to the fault gouge materials (EZAKA, 1981). To emphasize this narrow belt of Bouguer low, the gravity data are converted into 1×1 km² mesh data, which are smoothed over 11 points only in the NE-SW direction perpendicular to the strike of the fault. The differences between the original and smoothed values are then calculated to obtain both the distributions of the smoothed anomaly and the residual anomaly. Figure 14 shows a smoothed map and a residual map with 1 mgal contours. The smoothed map (Fig. 14(a)) clearly

Fig. 15. Topography and gravity profiles across the Median Tectonic Line (MTL) and the Akaishi Tectonic Line (ATL) for cross-section EE' of Fig. 11. The Sanbagawa metamorphic belt (S) is sandwiched by these two tectonic lines. The scatter in Bouguer anomaly near the MTL is due to a Bouguer low in the Shidara basin (see the text).

indicates a sharp change in regional anomaly pattern across the fault, whereas the residual map (Fig. 14(b)) reveals a narrow belt of Bouguer low along the fault. The axis of this belt does not coincide exactly with the fault trace but shifts toward its upthrown side (mountain side) as can be seen in Figs. 13 and 14(b).

(6) The NS trending MTL accompanies the Sanbagawa metamorphic belt on its eastern side (SUGIMURA and UYEDA, 1973; see also Fig. 2) along which ultra-basic and basic rocks (predominantly serpentinite) are patchily outcropped. A Bouguer high appears to be associated with this metamorphic belt. Such a correspondence is obvious in the southern portion of the MTL where the Sanbagawa belt is relatively wide and is sharply bounded by the Akaishi Tectonic Line (ATL) to the east. Figure 15 shows the topography and gravity profiles across the MTL and the ATL for cross-section EE' of Fig. 11, which indicates an abrupt change in Bouguer anomaly across the ATL. A change across the MTL is much smaller. These features are qualitatively consistent with the results of seismic explosion studies (IKAMI, 1978; INOUE and YAMADA, 1980). As can be seen in Fig. 10, the relative Bouguer high noted above is faced with a relative Bouguer low to the north-west across the MTL. This Bouguer low is well correlated to the Shidara basin of volcanic origin in the Miocene age (KATO, 1962).

6. Conclusion

The possible maximum errors involved in our analysis are summarized as follows.

- (1) Uncertainty in measured gravity value: 0.2 mgal
- (2) Error due to uncertainty in elevation height: 1 mgal
- (3) Uncertainty in terrain correction: 4 mgal

Thus the Bouguer anomaly map has an overall accuracy of 5 mgal. Other sources of error may arise from the assumption of the absence of dg/dz anomaly and lateral density variation.

- (4) Possible error due to dg/dz anomaly: 10 mgal
- (5) Possible error due to lateral density variation: 10 mgal

Although the maximum errors of the last two sources are large, the errors arising in an actual situation may be much smaller, just as in the case of (3). A large error would have to be taken into account, for example, if one wishes to compare Bouguer anomaly values near coasts to those in high mountains. As for comparison in a narrower region, relative Bouguer anomalies would be regarded in general to be far more accurate.

We pointed out in the last section several outstanding features observed on the Bouguer anomaly map. They will be more fully discussed in a forthcoming paper.

We thank Mr. T. Tsuzuki for his contribution in the early stage of the gravity measurements. We are indebted to all our laboratory colleagues and to the staff of the Microearthquake Observa-

tories of Nagoya University for their enthusiastic assistance of the survey. Measurements at high altitudes were accomplished in many cases with the generous permission of the district forest offices of the Forestry Agency of Japan, with the cordial assistance of the Hokuriku Electric Power Co., Inc., the Kansai Electric Power Co., Inc., the Tokyo Electric Power Co., Inc. and the Chubu Electric Power Co., Inc. and by the kind arrangements made by various district offices of Nagano, Shizuoka, Gifu, Aichi and Toyama Prefectures, to all of which we express our sincere thanks. Drs. K. Tajima and T. Seto and Drs. J. Chujo and Y. Suda kindly kept us informed on the gravity data respectively obtained by the Geographical Survey Institute and the Geological Survey of Japan. The topographic data file of the GSI was provided by the Japan Map Center. We thank an anonymous reviewer for his valuable comments.

APPENDIX

The list of gravity values (G -value), terrain corrections (T.C.) and Bouguer anomalies (B.A.) is given on pages 222 through 243. A density of 2.64 g/cm^3 is assumed. Stations are numbered in increasing order of latitude. They are classified into 10 types: blank, spot height; 1, bench mark; 2, contour; 3, triangulation station; 4, levelling station (Kansai Electric Power Co., Inc.); 5, levelling station (Tokyo Electric Power Co., Inc.); 6, levelling station (Hokuriku Electric Power Co., Inc.); 7, levelling station (Chubu Electric Power Co., Inc.); 8, levelling station in a tunnel (Kansai Electric Power Co., Inc.); 9, others.

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Note Added in Proof

After the completion of this work, the gravity value of the first order gravity station at Nagoya University has been revised ($g_s = 979,732.54$ mgal; TOKYO ASTRONOMICAL OBSERVATORY, 1980). The gravity values listed in Appendix are referred to this revised standard.

NO. TYPE	LAT ° N	LONG ° E	ALT (M)	G-VALUE (MGAL)	T.C. (MGAL)	B.A. (MGAL)	NO. TYPE	LAT ° N	LONG ° E	ALT (M)	G-VALUE (MGAL)	T.C. (MGAL)	B.A. (MGAL)
1	34 36.04	138 13.41	49.	9797.22	0.2	53.0	51	34 50.66	137 39.50	27.	9797.56	28	46.2
2	34 36.11	138 12.94	45.9	742.47	0.3	51.9	52	34 50.95	137 38.98	65.	741.88	1.7	37.2
3	34 36.31	138 12.72	44.	742.49	0.3	51.9	53	34 50.22	137 39.56	121.	735.87	2.5	43.2
4	34 36.90	138 11.03	40.	738.88	0.1	44.6	54	34 50.33	137 38.53	11.	753.63	0.5	37.8
5	34 37.05	138 10.82	40.9	735.68	0.2	43.5	55	34 50.35	137 38.12	49.	751.02	1.9	43.5
6	34 37.52	138 10.76	14.6	742.23	0.1	44.1	56	34 50.32	137 38.08	57.	741.84	1.2	35.1
7	34 38.12	138 8.56	12.9	726.47	0.1	37.1	57	34 50.35	137 38.21	49.6	744.04	0.9	35.5
8	34 38.43	138 8.20	22.	734.75	0.1	36.8	58	34 50.38	137 38.27	34.	744.16	0.6	37.2
9	34 38.60	138 7.34	37.	727.45	0.1	32.2	59	34 50.49	137 38.57	25.	747.41	0.5	33.4
10	34 38.70	138 6.71	46.8	721.08	0.2	27.7	60	34 50.51	137 38.43	68.	747.19	1.2	42.3
11	34 39.79	138 4.29	9.	722.23	0.1	19.8	61	34 50.61	137 35.03	397.	684.99	4.4	48.1
12	34 40.43	138 4.21	10.	724.46	0.1	21.3	62	34 50.62	138 14.15	29.1	753.34	0.5	39.9
13	34 40.86	138 4.09	9.	725.32	0.1	21.3	63	34 50.65	137 36.77	194.	753.61	2.4	46.6
14	34 41.07	138 4.22	10.	726.57	0.1	22.5	64	34 50.73	137 37.85	45.	750.86	0.8	40.7
15	34 41.17	138 3.82	15.	724.42	0.1	21.2	65	34 50.74	137 37.14	100.	737.49	2.2	39.6
16	34 41.82	138 4.34	15.	729.09	0.1	24.9	66	34 50.78	137 38.04	76.	738.93	2.9	36.9
17	34 42.17	138 3.96	15.	728.73	0.2	24.2	67	34 50.83	137 38.63	52.	744.35	1.4	36.1
18	34 42.58	138 3.61	12.	728.25	0.2	22.5	68	34 50.84	137 40.46	49.	752.87	2.3	44.9
19	34 42.96	138 3.36	16.	727.70	0.3	22.3	69	34 50.92	137 33.48	235.	714.63	2.5	43.2
20	34 43.39	138 8.56	148.	714.54	0.4	34.7	70	34 51.02	138 5.22	122.	730.61	3.2	37.7
21	34 43.40	138 2.88	24.	726.01	0.4	21.7	71	34 51.05	137 30.73	50.	747.18	0.8	37.6
22	34 43.96	138 6.13	26.	739.29	0.3	34.5	72	34 51.16	137 52.35	103.	731.10	1.4	32.4
23	34 44.55	138 2.65	32.8	728.33	0.3	24.0	73	34 51.27	137 54.09	87.	736.37	1.7	34.7
24	34 44.72	138 2.42	39.	728.14	0.3	24.8	74	34 51.35	137 49.59	46.	748.38	1.0	37.8
25	34 45.02	138 8.15	193.8	726.76	0.5	33.8	75	34 51.36	137 23.99	49.	742.90	0.8	32.6
26	34 45.68	138 28.20	36.	724.79	2.4	34.9	76	34 51.39	137 26.15	18.	750.69	0.9	34.4
27	34 45.88	138 28.20	36.	724.79	0.3	24.9	77	34 51.41	137 25.50	180.7	722.54	1.8	25.4
28	34 46.19	138 8.99	29.	735.93	0.3	28.2	78	34 51.44	137 25.50	180.	722.54	1.8	25.4
29	34 46.79	137 57.77	25.	737.60	0.3	28.6	79	34 51.45	137 25.50	150.	742.25	0.8	32.9
30	34 46.80	137 59.31	23.	738.63	0.3	29.2	80	34 51.52	137 45.88	120.	740.29	1.1	44.1
31	34 46.84	137 57.37	29.	736.23	0.3	28.0	81	34 51.53	137 36.47	197.	720.78	2.1	40.8
32	34 47.13	137 57.19	46.	733.90	0.3	28.6	82	34 51.57	137 40.38	143.2	736.87	1.5	45.6
33	34 47.31	137 59.27	23.	741.19	0.4	31.2	83	34 51.60	137 22.85	59.	741.75	1.1	33.5
34	34 47.34	138 0.95	28.	740.66	0.4	31.6	84	34 51.63	137 44.92	68.	753.42	1.7	44.5
35	34 47.50	137 56.85	58.	733.43	0.3	29.9	85	34 51.67	137 21.64	68.	741.60	1.2	35.1
36	34 47.74	137 56.19	26.	741.58	0.4	31.5	86	34 51.70	137 32.70	90.	739.30	1.4	37.3
37	34 47.79	138 13.85	25.3	750.34	0.2	33.9	87	34 51.80	137 36.45	184.	725.11	2.4	42.5
38	34 47.99	138 2.57	49.	739.16	0.8	33.7	88	34 51.82	137 37.75	119.	739.84	1.8	43.8
39	34 48.19	138 8.31	202.	712.48	0.7	36.8	89	34 51.84	137 27.77	23.	754.30	1.2	38.7
40	34 48.48	137 54.32	28.1	741.53	0.4	30.9	90	34 51.84	137 36.30	199.	723.93	2.6	44.4
41	34 48.64	137 55.50	35.	742.15	0.4	32.6	91	34 51.86	137 47.41	104.	742.73	1.3	43.2
42	34 48.92	138 1.49	45.	741.73	0.9	34.3	92	34 51.89	138 4.50	166.	720.37	5.2	36.9
43	34 49.05	137 57.37	47.	744.30	0.7	36.9	93	34 51.92	137 20.45	116.	732.94	0.9	35.2
44	34 49.24	137 53.70	34.	744.78	0.5	34.4	94	34 51.95	137 55.44	156.	724.04	1.6	34.9
45	34 49.31	137 55.08	37.8	744.25	0.5	34.4	95	34 52.06	137 59.52	250.	706.31	2.2	36.2
46	34 49.58	137 52.94	42.	741.42	0.7	32.2	96	34 52.00	137 29.37	27.	752.46	1.0	36.9
47	34 49.67	138 11.63	50.	747.92	0.4	39.9	97	34 52.00	137 49.43	48.	750.07	1.0	38.7
48	34 49.69	137 56.01	42.2	744.71	0.6	35.3	98	34 52.05	137 31.08	72.	744.19	0.9	37.4
49	34 49.75	137 55.20	10.	747.65	0.4	31.6	99	34 52.30	137 43.85	74.	747.70	2.2	42.5
50	34 49.88	137 55.95	43.	744.96	0.6	35.5	100	34 52.32	137 56.80	78.1	739.90	2.4	35.7

NO. TYPE	LAT	LONG	ALT (M)	G-VALUE (MGAL)	T-C (MGAL)	B.A. (MGAL)	NO. TYPE	LAT	LONG	ALT (M)	G-VALUE (MGAL)	T-C (MGAL)	B.A. (MGAL)
101	34 52.38	138 6.15	187.	979715.77	3.5	34.0	151	34 54.72	138 4.50	237.	979706.86	6.8	35.0
102	34 52.42	137 39.15	115.	743.60	2.1	46.2	152	34 54.78	137 32.03	186.	722.85	3.4	37.4
103	34 52.46	138 0.93	278.	700.56	3.6	36.6	153	34 54.81	137 33.79	58.	753.02	2.6	41.5
104	34 52.49	137 22.69	102.	736.76	2.6	37.2	154	34 54.88	137 37.59	166.	751.46	4.7	43.3
105	34 52.49	137 25.26	85.	728.32	1.8	34.6	155	34 54.90	137 32.90	88.	745.23	1.1	38.0
106	34 52.57	137 26.46	100.	736.74	1.6	35.0	156	34 54.93	137 41.43	181.	751.79	2.5	44.3
107	34 52.61	138 13.38	57.	747.95	1.3	38.0	157	34 55.08	137 17.67	73.	747.65	1.2	37.3
108	34 52.69	137 28.64	23.	754.18	1.1	37.3	158	34 55.14	137 23.48	255.	708.56	5.2	38.1
109	34 52.69	137 35.59	153.	754.58	1.5	43.5	159	34 55.34	137 35.74	98.	746.29	3.2	42.8
110	34 52.91	137 27.08	92.	738.17	1.7	35.1	160	34 55.15	137 46.72	122.	737.22	5.4	40.7
111	34 52.92	137 33.35	95.	742.16	1.3	39.3	161	34 55.20	137 19.52	91.	743.09	2.7	37.6
112	34 52.95	137 38.29	117.	751.48	4.6	36.7	162	34 55.22	137 31.10	136.6	732.82	2.8	36.0
113	34 52.98	138 0.93	251.	702.18	1.3	26.7	163	34 55.26	137 43.60	288.	711.02	2.2	43.8
114	34 53.01	137 36.55	51.	752.74	1.3	41.0	164	34 55.36	137 37.53	230.	709.36	6.0	34.5
115	34 53.08	137 40.12	52.	751.74	1.3	40.2	165	34 55.42	137 36.88	306.	707.94	5.9	47.9
116	34 53.14	138 0.91	164.	751.70	2.7	35.5	166	34 55.42	137 41.43	193.	729.56	2.3	43.3
117	34 53.15	137 26.74	138.	759.74	2.0	35.7	167	34 55.43	137 44.57	227.	721.71	2.9	43.0
118	34 53.19	137 30.18	141.	756.82	1.5	42.9	168	34 55.48	137 54.88	724.8	610.50	9.1	36.3
119	34 53.20	137 47.09	48.	751.91	3.0	41.1	169	34 55.58	137 54.88	406.	683.66	3.1	41.1
120	34 53.21	137 40.28	146.	737.12	1.3	43.9	170	34 55.58	137 30.45	278.	704.48	5.4	38.2
121	34 53.32	137 58.93	128.	728.08	5.7	35.6	171	34 55.43	137 53.98	203.	718.48	1.9	33.7
122	34 53.40	137 51.46	88.2	739.27	2.2	35.3	172	34 55.45	137 37.90	247.	715.58	2.9	34.7
123	34 53.42	137 50.45	68.	745.04	2.2	37.0	173	34 55.55	137 30.99	86.	715.58	5.3	38.7
124	34 53.50	137 42.90	219.	723.64	2.6	45.7	174	34 55.56	137 31.42	264.	708.58	5.0	38.1
125	34 53.60	137 39.05	195.	726.52	1.4	42.5	175	34 55.90	137 48.46	109.	710.83	5.2	36.9
126	34 53.62	137 37.53	140.	735.82	2.9	42.4	176	34 55.96	137 33.77	406.	685.86	2.7	38.7
127	34 53.65	137 28.05	75.	743.37	1.9	36.1	177	34 55.96	137 32.56	428.	685.40	5.5	38.0
128	34 53.65	137 32.35	64.	750.30	1.9	40.9	178	34 56.03	137 32.04	288.	702.09	3.2	37.4
129	34 53.67	137 53.48	178.	721.63	1.8	34.6	179	34 56.11	137 35.52	155.	730.69	3.6	37.4
130	34 53.77	137 22.14	232.	712.92	2.4	37.0	180	34 56.11	137 35.52	82.	747.82	1.8	38.4
131	34 53.81	137 56.79	119.8	732.09	3.4	34.9	181	34 56.16	137 40.32	259.	715.53	4.2	43.3
132	34 53.82	137 30.31	55.	748.47	1.2	36.4	182	34 56.19	137 24.12	241.	710.90	7.1	38.1
133	34 53.82	137 41.72	117.	741.82	3.0	43.7	183	34 56.22	137 28.90	480.	669.91	2.7	39.8
134	34 53.96	137 33.88	147.	734.58	3.5	42.7	184	34 56.24	137 59.07	375.	680.44	3.6	30.5
135	34 53.97	137 46.13	74.	747.96	3.2	41.4	185	34 56.26	137 18.98	124.	737.62	2.7	37.2
136	34 54.16	137 57.12	145.	726.72	3.6	34.3	186	34 56.30	137 54.04	339.	689.46	1.8	30.5
137	34 54.32	137 31.12	58.	748.03	1.2	35.8	187	34 56.35	137 41.30	252.	716.07	4.2	42.2
138	34 54.36	137 36.49	118.	742.02	1.9	42.3	188	34 56.38	138 5.00	152.	727.16	2.7	32.0
139	34 54.39	137 25.42	789.2	592.27	12.8	36.1	189	34 56.42	137 45.68	263.	710.86	6.3	41.3
140	34 54.39	137 34.92	259.	745.29	2.5	43.9	190	34 56.48	137 25.49	501.	665.01	1.9	37.9
141	34 54.45	137 56.55	145.3	726.16	3.8	33.5	191	34 56.52	137 36.36	39.	746.84	2.1	38.5
142	34 54.49	137 30.19	68.	744.93	1.8	35.0	192	34 56.52	137 56.33	85.	686.12	2.0	30.2
143	34 54.50	137 52.85	131.	731.98	2.1	34.8	193	34 56.52	138 3.64	180.	717.53	7.6	32.6
144	34 54.51	137 23.79	295.	700.62	4.7	38.5	194	34 56.58	137 42.92	306.	707.86	3.0	43.0
145	34 54.56	137 27.40	310.	700.56	4.6	41.2	195	34 56.58	138 12.76	150.	726.87	4.0	32.7
146	34 54.57	137 49.55	92.	742.86	3.7	39.5	196	34 56.72	137 34.65	103.	742.40	2.0	36.4
147	34 54.61	138 12.36	94.	739.81	2.1	35.2	197	34 56.73	137 32.87	77.	747.43	3.5	37.8
148	34 54.62	137 57.53	149.	725.17	5.7	35.0	198	34 56.73	138 0.04	414.	673.53	4.0	31.0
149	34 54.76	137 31.88	79.	743.90	1.2	35.2	199	34 56.80	137 27.58	300.	706.60	4.6	42.1
150	34 54.77	137 59.43	289.	700.50	3.7	35.7	200	34 56.83	138 5.64	158.	724.35	4.2	31.3

NO. TYPE	LAT	LON	ALT	G-VALUE	T.C.	B.A.	NO. TYPE	LAT	LON	ALT	G-VALUE	T.C.	B.A.
	° N	° E	(M)	(MGAL)	(MGAL)	(MGAL)		° N	° E	(M)	(MGAL)	(MGAL)	(MGAL)
301	35 1.65	138 14.73	143.	979724.95	6.0	23.9	351	35 4.50	137 41.81	247.	979717.03	3.8	30.3
302	35 1.70	137 38.55	270.	698.74	7.1	23.9	352	35 4.51	137 45.11	204.	721.71	6.7	29.4
303	35 1.79	137 35.34	182.	728.72	4.8	34.1	353	35 4.52	138 1.80	481.	649.47	16.5	21.7
304	35 1.82	137 37.52	288.	695.59	6.2	34.2	354	35 4.54	137 37.19	376.	692.30	4.3	31.5
305	35 1.84	137 37.97	295.	684.39	1.6	40.0	355	35 4.58	137 38.40	358.	697.84	6.7	31.9
306	35 1.85	137 41.03	276.	684.82	6.3	35.2	356	35 4.63	138 6.20	265.	702.60	7.8	23.5
307	35 1.87	137 41.03	276.	684.82	6.3	35.2	357	35 4.63	137 37.37	650.	698.27	13.4	20.7
308	35 2.06	137 47.88	519.	695.15	5.3	53.4	358	35 4.66	137 49.26	136.	728.04	11.6	30.9
309	35 2.14	137 47.88	159.	721.53	7.3	24.3	359	35 4.70	137 49.24	135.	728.04	10.3	30.9
310	35 2.30	137 46.23	224.	711.99	12.5	22.5	360	35 4.70	137 51.58	135.1	725.29	10.3	30.3
311	35 2.30	138 22.90	76.	727.72	2.4	8.9	361	35 4.72	137 47.62	148.	726.74	12.4	28.7
312	35 2.34	137 57.00	284.	695.30	9.9	25.0	362	35 4.81	138 14.76	242.	704.34	8.4	20.8
313	35 2.43	137 55.80	238.	702.68	9.6	22.9	363	35 4.89	137 34.69	370.	701.34	3.4	37.9
314	35 2.48	138 5.20	225.	710.47	5.2	23.7	364	35 4.90	137 55.05	354.	688.44	19.4	17.9
315	35 2.52	137 33.83	216.	723.81	4.8	34.8	365	35 4.96	137 48.34	145.	733.65	7.2	29.6
316	35 2.57	138 1.18	357.	680.80	7.8	22.6	366	35 5.08	137 38.38	480.	673.93	4.3	32.9
317	35 2.58	137 34.94	490.	688.67	6.1	25.0	367	35 5.34	138 4.13	939.	564.24	13.2	22.6
318	35 2.61	138 15.29	165.	719.19	6.8	22.1	368	35 5.36	137 48.99	135.	734.38	9.0	29.5
319	35 2.62	137 42.83	289.	703.14	3.8	27.3	369	35 5.36	138 6.33	311.	694.25	7.3	22.5
320	35 2.76	137 49.56	910.	587.31	7.4	37.9	370	35 5.37	137 35.99	494.	672.61	4.3	33.9
321	35 2.77	138 14.71	172.	718.96	6.8	22.9	371	35 5.40	137 52.80	397.	673.72	15.6	27.2
322	35 2.83	137 32.62	224.	725.34	4.4	37.1	372	35 5.40	138 10.67	768.	604.00	7.6	22.9
323	35 2.86	138 1.70	391.	673.35	10.4	23.9	373	35 5.42	137 40.86	344.	700.60	5.2	33.2
324	35 2.94	138 13.22	272.	698.36	9.2	24.2	374	35 5.47	138 2.18	691.	614.19	10.6	20.7
325	35 2.98	137 58.16	347.	681.88	10.0	23.3	375	35 5.52	137 51.17	166.0	725.28	15.1	32.5
326	35 3.03	137 36.22	420.	675.49	4.2	25.4	376	35 5.58	138 7.74	282.	700.70	6.4	22.0
327	35 3.25	137 31.08	268.	717.62	6.3	39.3	377	35 5.59	137 42.23	353.	698.82	5.2	32.9
328	35 3.31	137 51.09	119.	724.75	17.9	28.5	378	35 5.72	137 34.62	466.	684.59	1.5	37.1
329	35 3.34	138 15.87	283.	693.13	8.1	19.5	379	35 5.75	137 47.91	270.	706.14	8.8	27.2
330	35 3.50	137 42.37	305.	701.68	3.7	27.7	380	35 5.76	137 39.59	363.	700.04	3.9	34.5
331	35 3.51	138 16.93	703.	608.10	8.8	18.0	381	35 5.76	137 44.24	358.	696.28	7.1	33.0
332	35 3.52	138 16.30	370.	676.53	7.9	19.6	382	35 5.84	138 10.21	638.	630.76	6.8	22.5
333	35 3.58	138 22.39	97.	723.36	3.9	8.4	383	35 5.91	138 8.14	307.	697.35	5.9	22.6
334	35 3.62	137 29.48	418.	688.73	7.5	40.8	384	35 6.02	138 13.89	301.	701.31	9.9	29.2
335	35 3.62	137 45.57	148.	725.78	7.6	28.5	385	35 6.05	138 9.62	414.	673.38	7.2	20.9
336	35 3.70	137 28.51	470.	681.44	5.4	41.6	386	35 6.24	138 8.64	308.	696.63	6.5	22.2
337	35 3.72	137 57.29	695.	613.66	10.9	23.7	387	35 6.25	137 53.10	452.	662.38	17.2	27.1
338	35 3.72	138 12.73	602.	636.23	5.2	22.2	388	35 6.33	137 41.55	431.	684.04	6.3	33.6
339	35 3.85	137 32.71	254.	721.77	4.9	38.5	389	35 6.34	137 38.00	440.	684.61	4.6	34.3
340	35 3.89	137 55.24	297.	684.48	15.2	19.9	390	35 6.35	137 35.46	554.	663.67	2.5	33.7
341	35 3.94	137 33.73	274.	718.96	3.5	38.0	391	35 6.40	138 20.76	166.	710.01	6.1	6.9
342	35 3.96	137 58.39	518.	647.60	9.0	20.4	392	35 6.42	138 8.43	326.	693.23	6.3	21.9
343	35 4.01	137 44.02	218.	720.05	4.6	29.1	393	35 6.44	138 9.11	369.	682.53	7.2	20.6
344	35 4.13	138 4.69	606.	635.45	7.6	29.0	394	35 6.47	137 51.36	188.8	731.68	12.6	29.4
345	35 4.16	138 22.18	108.	720.62	3.9	7.0	395	35 6.52	137 57.85	727.	605.63	9.5	16.7
346	35 4.36	137 30.88	520.	669.65	5.5	38.8	396	35 6.53	138 3.11	1140.	525.11	12.7	21.2
347	35 4.39	137 39.81	282.	709.00	6.2	31.8	397	35 6.53	138 19.80	176.	709.24	7.6	9.4
348	35 4.40	138 12.42	735.	610.68	5.6	22.5	398	35 6.59	137 42.87	592.	652.00	3.8	30.3
349	35 4.47	137 43.05	230.	719.30	4.6	30.1	399	35 6.75	137 33.46	498.	677.73	5.3	39.0
350	35 4.50	137 40.70	270.	711.93	4.4	30.4	400	35 6.76	138 21.84	155.	708.21	7.7	4.0

NO. TYPE	LAT	LONG	ALT	G-VALUE	T.C.	B.A.	NO. TYPE	LAT	LONG	ALT	G-VALUE	T.C.	B.A.
			(M)	(MGAL)	(MGAL)	(MGAL)				(M)	(MGAL)	(MGAL)	(MGAL)
401	35	6.77	137 48.40	304.	979.97	40	451	35	9.31	138 8.59	576.	976.43	62
402	35	6.88	137 46.58	710.	631.34	2.6	452	35	9.31	138 8.59	576.	685.92	17.3
403	35	7.02	138 8.29	408.	676.06	7.2	453	35	9.31	138 8.59	576.	645.37	2.0
404	35	7.17	137 51.59	229.6	714.96	11.3	454	35	9.31	138 8.59	576.	711.70	2.6
405	35	7.23	137 58.69	897.	571.96	11.2	455	35	9.31	138 8.59	576.	692.63	13.2
406	35	7.27	137 55.58	516.	648.43	12.5	456	35	9.31	138 8.59	576.	632.17	9.2
407	35	7.30	137 50.39	566.	655.20	4.4	457	35	9.31	138 8.59	576.	632.17	9.2
408	35	7.41	138 14.15	497.	656.89	6.5	458	35	9.31	138 8.59	576.	632.17	9.2
409	35	7.42	138 21.86	172.	703.54	9.1	459	35	9.31	138 8.59	576.	632.17	9.2
410	35	7.43	137 16.90	119.	748.51	1.6	460	35	9.31	138 8.59	576.	632.17	9.2
411	35	7.46	137 46.13	478.	670.64	8.1	461	35	9.31	138 8.59	576.	685.35	15.2
412	35	7.47	137 35.44	448.	685.88	4.8	462	35	9.31	138 8.59	576.	684.40	14.2
413	35	7.47	137 55.99	536.	645.30	12.9	463	35	9.31	138 8.59	576.	685.05	2.7
414	35	7.48	138 8.26	338.	687.06	10.9	464	35	9.31	138 8.59	576.	639.70	2.0
415	35	7.54	137 48.12	330.	698.37	6.1	465	35	9.31	138 8.59	576.	628.96	14.4
416	35	7.54	138 19.58	204.	702.85	8.7	466	35	9.31	138 8.59	576.	653.04	4.4
417	35	7.62	138 1.33	1328.	486.41	12.2	467	35	9.31	138 8.59	576.	676.20	12.0
418	35	7.67	137 30.69	493.	668.92	4.8	468	35	9.31	138 8.59	576.	652.10	3.7
419	35	7.68	137 56.85	572.	635.75	12.3	469	35	9.31	138 8.59	576.	669.52	12.5
420	35	7.79	138 2.82	1404.	464.77	16.5	470	35	9.31	138 8.59	576.	657.05	9.6
421	35	7.87	137 33.65	669.	646.01	1.7	471	35	9.31	138 8.59	576.	675.47	11.5
422	35	8.00	137 48.96	270.	706.15	11.7	472	35	9.31	138 8.59	576.	707.07	15.3
423	35	8.02	138 19.77	562.	691.96	7.0	473	35	9.31	138 8.59	576.	661.01	11.0
424	35	8.08	137 7.76	344.	667.43	3.5	474	35	9.31	138 8.59	576.	657.02	13.4
425	35	8.11	137 15.84	477.	691.87	10.7	475	35	9.31	138 8.59	576.	695.34	17.9
426	35	8.11	138 8.60	376.	686.78	8.8	476	35	9.31	138 8.59	576.	664.27	18.9
427	35	8.11	138 8.60	376.	686.78	8.8	477	35	9.31	138 8.59	576.	612.44	12.5
428	35	8.12	137 15.21	110.	746.16	1.9	478	35	9.31	138 8.59	576.	706.26	14.2
429	35	8.14	138 1.27	1304.	489.39	11.9	479	35	9.31	138 8.59	576.	596.02	5.4
430	35	8.14	138 22.09	191.	696.95	11.9	480	35	9.31	138 8.59	576.	684.84	15.3
431	35	8.15	137 19.64	139.	746.41	3.8	481	35	9.31	138 8.59	576.	604.41	11.5
432	35	8.15	137 45.53	480.	678.08	5.5	482	35	9.31	138 8.59	576.	678.41	11.5
433	35	8.16	137 58.19	691.	607.79	18.0	483	35	9.31	138 8.59	576.	653.16	12.3
434	35	8.28	137 13.88	89.	748.33	1.1	484	35	9.31	138 8.59	576.	642.90	12.3
435	35	8.29	138 13.60	662.	619.20	13.1	485	35	9.31	138 8.59	576.	644.00	12.3
436	35	8.30	137 33.48	412.	672.64	16.0	486	35	9.31	138 8.59	576.	653.25	11.4
437	35	8.31	137 51.14	348.	694.57	7.5	487	35	9.31	138 8.59	576.	656.77	11.2
438	35	8.36	138 31.30	238.2	684.62	3.4	488	35	9.31	138 8.59	576.	682.71	22.1
439	35	8.59	138 9.08	366.	679.08	12.6	489	35	9.31	138 8.59	576.	604.21	9.0
440	35	8.60	137 35.09	903.	579.36	8.0	490	35	9.31	138 8.59	576.	578.74	11.2
441	35	8.78	138 14.13	884.	577.87	8.9	491	35	9.31	138 8.59	576.	647.79	13.9
442	35	8.85	137 51.99	246.	711.01	11.4	492	35	9.31	138 8.59	576.	605.12	3.4
443	35	8.87	138 8.93	388.	676.78	10.1	493	35	9.31	138 8.59	576.	706.61	11.4
444	35	8.92	137 50.05	283.	701.27	14.1	494	35	9.31	138 8.59	576.	678.02	15.1
445	35	8.94	138 1.06	1240.	502.71	10.7	495	35	9.31	138 8.59	576.	591.35	16.6
446	35	8.97	137 58.33	706.	612.48	15.9	496	35	9.31	138 8.59	576.	584.71	9.3
447	35	9.03	137 32.53	652.	651.11	2.3	497	35	9.31	138 8.59	576.	638.79	9.7
448	35	9.07	137 41.47	583.	660.84	4.8	498	35	9.31	138 8.59	576.	622.50	13.2
449	35	9.16	137 39.77	653.	647.78	3.1	499	35	9.31	138 8.59	576.	640.08	14.4
450	35	9.24	137 32.26	260.	711.67	11.0	500	35	9.31	138 8.59	576.	568.33	14.7

NO.	TYPE	LAT	°	N	°	E	ALT	(M)	G-VALUE	(MGAL)	T.C.	(MGAL)	B.A.	(MGAL)
501		35 11.65	137 36.68	877.	979.603.23	2.8	30.0							
502		35 11.66	137 36.68	877.	979.603.23	2.8	30.0							
503		35 11.74	137 35.79	392.	617.60	3.3	28.0							
504		35 11.74	137 35.79	392.	617.60	3.3	28.0							
505		35 11.77	138 21.74	285.	674.08	16.0	17.1							
506		35 11.79	138 16.23	935.	563.48	10.2	9.0							
507		35 11.81	138 16.23	935.	563.48	10.2	9.0							
508		35 11.84	137 56.75	510.	636.90	12.1	4.0							
509		35 11.85	138 6.37	960.	648.19	17.0	16.3							
510		35 12.00	138 16.09	1175.	556.23	15.6	11.9							
511		35 12.04	138 15.12	966.	516.40	9.1	8.2							
512		35 12.12	138 15.35	1274.	492.54	12.9	7.6							
513		35 12.14	138 15.87	1117.	530.50	7.3	8.8							
514		35 12.18	137 49.56	300.	701.83	12.5	23.4							
515		35 12.23	137 31.86	626.	646.88	4.5	24.9							
516		35 12.29	137 57.04	526.	663.56	17.0	18.3							
517		35 12.30	137 57.04	526.	663.56	17.0	18.3							
518		35 12.33	138 18.87	600.	642.93	19.4	15.9							
519		35 12.34	138 13.57	607.	623.89	11.6	3.6							
520		35 12.40	137 41.07	806.	617.94	9.8	9.0							
521		35 12.44	138 21.19	326.	616.89	3.7	29.4							
522		35 12.46	137 29.12	557.	659.13	3.6	22.2							
523		35 12.46	138 15.79	936.	566.11	8.4	9.1							
524		35 12.47	138 13.54	667.	618.10	9.4	8.9							
525		35 12.49	137 53.72	493.	663.83	12.2	22.8							
526		35 12.50	137 37.76	926.	592.84	3.3	28.6							
527		35 12.56	137 59.62	792.	591.48	16.5	13.9							
528		35 12.78	138 21.21	337.	664.14	18.0	-2.3							
529		35 12.80	137 36.06	813.	614.49	3.8	27.9							
530		35 12.80	137 57.40	571.	637.67	18.0	17.4							
531		35 12.80	138 16.80	1371.	471.56	12.9	4.9							
532		35 12.83	137 53.83	508.	659.44	14.8	23.5							
533		35 12.84	138 15.79	846.	581.81	10.4	8.4							
534		35 12.87	137 55.36	516.	651.93	15.5	18.2							
535		35 12.90	137 58.17	657.	613.12	22.5	14.3							
536		35 12.93	137 58.07	600.	625.74	19.8	12.8							
537		35 12.95	137 51.08	550.	655.64	9.0	22.0							
538		35 13.03	138 14.03	710.	609.01	10.8	8.7							
539		35 13.05	138 6.95	1006.	545.05	19.8	12.4							
540		35 13.12	137 49.17	341.	692.75	16.0	24.6							
541		35 13.16	137 46.96	1060.	562.76	5.0	26.0							
542		35 13.21	137 55.18	546.	648.25	14.5	19.0							
543		35 13.35	138 21.11	380.	637.16	16.5	-3.3							
544		35 13.39	137 54.08	605.	643.13	11.2	27.1							
545		35 13.40	137 43.68	966.	581.62	2.3	22.0							
546		35 13.40	137 49.89	513.	664.66	11.4	25.5							
547		35 13.45	138 30.68	95.3	714.70	5.5	-12.9							
548		35 13.46	138 15.99	795.	586.14	13.2	4.5							
549		35 13.58	137 55.86	578.	639.02	16.5	17.6							
550		35 13.62	137 52.62	640.	642.80	2.8	19.8							
551		35 13.62	137 51.80	604.	644.11	11.3	22.5							
552		35 13.66	137 39.92	459.	979.676.52	6.0	20.9							
553		35 13.68	137 35.20	840.	609.17	3.8	26.7							
554		35 13.77	138 20.83	400.	657.26	13.8	-2.3							
555		35 14.14	138 15.11	675.	611.89	12.1	4.4							
556		35 14.18	137 36.33	653.	623.17	16.1	15.3							
557		35 14.19	138 15.95	787.	587.17	15.0	5.3							
558		35 14.28	137 36.91	734.	624.29	5.2	21.5							
559		35 14.35	138 21.53	506.	632.51	17.2	-3.6							
560		35 14.38	137 39.74	375.	690.37	7.1	18.2							
561		35 14.44	138 20.71	435.	651.06	12.6	-3.8							
562		35 14.48	137 39.65	968.	580.22	4.3	22.5							
563		35 14.54	137 47.41	759.	623.31	3.5	23.3							
564		35 14.55	137 50.16	305.	701.86	12.2	20.7							
565		35 14.58	138 14.73	670.	611.15	13.5	3.5							
566		35 14.63	137 38.24	835.	605.39	4.2	21.0							
567		35 14.73	138 15.72	762.	592.30	13.6	2.8							
568		35 14.76	138 15.18	815.	585.69	10.0	3.2							
569		35 14.81	137 56.98	746.	603.69	18.5	15.7							
570		35 14.83	138 7.06	1159.	516.12	16.7	8.3							
571		35 14.88	138 20.55	485.	639.41	15.0	-3.8							
572		35 14.92	137 35.26	587.	650.64	5.1	17.7							
573		35 15.02	137 54.87	1082.3	552.87	7.2	20.0							
574		35 15.15	138 20.17	508.	634.19	15.9	-3.9							
575		35 15.18	138 15.13	828.	582.55	11.2	3.0							
576		35 15.29	138 14.25	664.	611.83	14.6	3.1							
577		35 15.31	137 49.11	538.	699.38	10.4	21.9							
578		35 15.35	137 31.96	455.	675.38	4.9	15.5							
579		35 15.35	137 33.86	545.	657.64	5.7	16.4							
580		35 15.36	137 42.58	828.	608.96	3.0	21.0							
581		35 15.36	137 43.41	780.	620.54	2.4	22.4							
582		35 15.41	138 6.16	1107.	529.38	16.2	9.9							
583		35 15.54	138 14.50	768.	591.94	11.5	0.3							
584		35 15.55	138 19.83	547.	627.79	14.2	-4.9							
585		35 15.74	137 56.83	829.	588.97	16.2	13.9							
586		35 15.80	138 13.68	723.	595.68	18.7	2.0							
587		35 15.90	137 39.32	335.	698.20	4.3	13.1							
588		35 15.92	137 55.02	757.	616.27	12.8	23.2							
589		35 15.99	137 58.56	1005.	551.14	15.5	9.9							
590		35 16.00	137 40.75	976.	576.64	4.1	18.2							
591		35 16.11	137 42.84	811.	613.25	2.5	20.3							
592		35 16.13	137 44.68	914.	593.79	2.0	20.8							
593		35 16.22	138 33.18	784.	580.53	23.8	3.4							
594		35 16.35	137 31.50	516.	700.38	11.1	17.8							
595		35 16.35	137 55.14	674.	626.92	15.0	19.1							
596		35 16.37	137 33.18	716.	623.86	4.6	13.9							
597		35 16.41	137 35.44	718.	621.65	6.7	14.1							
598		35 16.48	137 39.45	4220.	509.53	14.4	8.8							
599		35 16.86	138 13.55	835.	578.12	15.5	1.3							
600		35 16.88	137 42.07	861.	599.97	3.3	16.7							

	NO.	NO. TYPE	LAT	LONG	ALT (M)	G-VALUE (MGAL)	T.C. (MGAL)	B.A. (MGAL)		NO.	NO. TYPE	LAT	LONG	ALT (M)	G-VALUE (MGAL)	T.C. (MGAL)	B.A. (MGAL)		
601	35	16.91	137	28.50	362.	979490.13	5.7	10.5	651	35	20.19	137	37.22	478.	979457.77	14.7	5.4		
602	35	17.04	138	20.44	732.	559.68	12.6	8.7	652	35	20.20	137	52.99	555.	651.73	9.5	9.3		
603	35	17.05	137	15.33	526.	452.60	16.6	15.6	653	35	20.26	137	52.75	723.	617.42	6.5	5.2		
604	35	17.06	137	15.33	316.	469.20	17.6	17.6	654	35	20.31	137	52.75	1046.	553.58	6.7	5.5		
605	35	17.11	137	43.58	721.	426.17	7.3	15.2	655	35	20.31	137	52.75	681.	626.23	4.6	3.6		
606	35	17.12	137	43.58	756.	582.01	18.2	17.8	656	35	20.44	137	43.75	734.	616.57	8.8	8.6		
607	35	17.30	138	20.35	766.	594.07	5.4	12.1	657	35	20.51	137	50.71	633.	635.39	5.3	5.8		
608	35	17.32	137	34.32	860.	594.07	5.4	12.1	658	35	20.51	137	50.71	744.	678.86	6.2	10.8		
609	35	17.36	137	29.34	391.	484.38	4.5	8.6	659	35	20.52	137	50.71	700.	721.17	9.6	7.1		
610	35	17.45	137	47.94	414.	483.21	8.1	15.4	660	35	20.57	137	50.69	201.	722.40	0.7	0.7		
611	35	17.53	137	40.44	1164.	335.89	4.1	12.4	661	35	20.60	137	21.81	449.	673.82	1.3	2.9		
612	35	17.70	138	13.09	846.	573.02	18.9	1.2	662	35	20.61	137	48.05	578.	646.09	4.7	2.9		
613	35	17.71	137	30.10	428.	677.53	4.7	8.8	663	35	20.61	137	54.23	735.	615.86	8.5	7.6		
614	35	17.73	137	55.73	430.	672.67	15.1	14.7	664	7	35	20.71	138	11.24	968.0	546.67	22.5	1.1	
615	35	17.78	137	16.32	456.	671.10	1.4	4.4	665	2	35	20.77	137	54.29	743.	613.81	8.9	7.2	
616	35	17.79	137	47.40	414.	682.44	9.2	15.3	666	2	35	20.78	137	54.29	495.	653.62	16.4	5.4	
617	35	17.86	137	48.68	353.	695.34	9.1	15.9	667	2	35	20.84	137	22.99	460.	671.80	0.9	1.1	
618	35	17.93	137	56.86	531.	643.35	19.4	9.3	668	2	35	21.03	137	34.36	912.	581.32	5.4	4.4	
619	35	17.98	137	31.60	468.	666.10	7.7	7.8	669	2	35	21.05	137	3.34	185.	726.15	1.0	0.9	
620	35	18.02	138	20.96	1006.	536.75	13.7	-8.9	670	2	35	21.05	137	37.79	635.	630.45	12.1	5.2	
621	35	18.06	138	27.20	152.3	695.49	8.0	-24.9	671	2	35	21.13	137	32.31	837.	595.14	5.7	3.5	
622	35	18.09	137	43.13	826.	640.12	6.4	15.3	672	2	35	21.18	137	24.99	517.	659.19	1.2	-0.4	
623	35	18.09	137	45.40	548.	657.45	9.5	16.6	673	2	35	21.30	137	19.89	651.	631.02	3.3	-0.2	
624	2	35	18.21	137	37.75	950.	578.26	3.1	10.5	674	2	35	21.35	137	5.88	1128.	538.58	4.4	3.1
625	35	18.26	137	57.60	630.	620.57	23.9	10.4	675	1	35	21.39	137	5.88	1262.	740.39	0.6	2.6	
626	2	35	18.26	138	12.34	849.	677.37	16.3	0.8	676	1	35	21.43	137	58.63	548.0	638.69	22.2	5.9
627	2	35	18.27	138	14.34	590.	675.42	14.5	10.2	677	1	35	21.48	137	3.46	206.	721.71	0.9	-0.1
628	2	35	18.31	138	11.64	994.	662.19	23.0	3.2	678	2	35	21.51	137	8.03	128.	738.55	0.8	1.2
629	2	35	18.34	137	34.87	370.	681.90	16.6	12.7	679	2	35	21.57	137	47.77	557.	647.82	6.0	0.1
630	2	35	18.43	137	31.08	319.	699.47	9.2	12.7	680	7	35	21.78	138	11.92	959.5	540.71	30.1	-3.2
631	35	18.47	137	33.87	585.	641.40	10.3	8.2	681	2	35	21.86	137	42.98	886.	587.24	5.6	4.2	
632	35	18.53	137	18.71	412.	678.66	12.6	2.4	682	2	35	21.86	137	37.31	575.	629.98	23.7	3.4	
633	1	35	18.56	137	55.77	408.8	475.56	11.6	11.0	683	1	35	21.89	137	37.89	529.9	644.39	20.2	5.8
634	35	18.58	137	20.80	515.	640.26	11.1	11.0	684	2	35	21.91	137	35.82	1156.	553.44	4.5	2.8	
635	35	18.58	137	44.87	493.	666.83	10.2	11.8	685	2	35	21.97	137	40.59	530.	710.42	0.9	-1.9	
636	35	18.59	137	41.56	1091.	549.51	5.8	11.5	686	2	35	22.07	137	40.59	530.	710.42	0.9	-1.9	
637	35	18.59	137	41.56	1091.	549.51	5.8	11.5	687	2	35	22.07	137	40.59	530.	710.42	0.9	-1.9	
638	35	18.59	137	38.02	910.	683.90	3.4	7.4	688	2	35	22.17	137	58.54	527.	658.23	10.1	5.9	
639	7	35	19.02	138	11.12	945.4	558.06	15.3	0.7	689	2	35	22.19	137	25.11	473.	658.34	1.5	-0.1
640	7	35	19.14	138	11.38	945.7	558.06	20.2	1.5	690	2	35	22.23	137	21.24	473.	658.34	1.5	-0.1
640'	7	35	19.18	137	28.55	572.	649.75	3.6	6.2	690	2	35	22.43	137	25.15	495.	665.44	1.5	-0.1
641	35	19.19	138	11.23	945.4	556.24	17.8	0.9	691	2	35	22.47	138	4.44	837.	568.49	30.9	0.7	
642	7	35	19.28	137	30.77	503.	661.15	6.8	7.1	692	2	35	22.52	138	4.94	883.	558.60	30.9	0.7
643	35	19.37	137	35.43	734.	613.05	9.6	7.3	693	2	35	22.55	137	51.98	801.	608.80	3.6	5.8	
644	35	19.38	137	56.55	422.8	668.38	16.6	8.1	694	1	35	22.55	137	58.21	554.7	640.34	19.4	4.4	
645	35	19.40	137	14.74	272.	703.74	4.0	1.0	695	2	35	22.61	138	0.66	595.	620.18	28.0	0.7	
646	35	19.49	137	44.77	634.	637.39	9.8	11.6	696	2	35	22.62	137	47.52	523.	657.96	4.4	0.7	
647	35	19.70	138	10.82	950.	556.60	16.5	0.2	697	2	35	22.68	137	13.93	183.	730.32	0.6	-2.0	
648	35	19.77	137	19.96	431.	676.55	2.8	3.4	698	2	35	22.68	137	13.93	183.	730.32	0.6	-2.0	
649	35	19.88	137	40.24	1139.	538.32	4.4	7.1	699	2	35	22.71	138	1.21	627.	615.12	26.8	0.8	
650	35	20.07	137	28.47	671.	628.84	2.9	2.9	700	2	35	22.74	137	26.94	490.	668.16	1.7	-4.5	

NO. TYPE	LAT ° N	LONG ° E	ALT (M)	G-VALUE (MGAL)	T.C. (MGAL)	B.A. (MGAL)	NO. TYPE	LAT ° N	LONG ° E	ALT (M)	G-VALUE (MGAL)	T.C. (MGAL)	B.A. (MGAL)
701	35 22.80	137 50.63	698.	979630.74	2.6	6.0	751	35 24.78	137 42.21	899.	979578.29	6.6	-5.4
702	35 22.83	138 5.44	937.	546.93	30.9	-2.1	752	35 24.79	137 42.22	899.	979578.29	6.6	-5.4
703	35 22.85	137 19.59	384.	684.49	2.6	-2.4	753	35 24.80	137 43.61	832.	593.93	4.6	-5.0
704	35 22.86	137 5.47	135.	738.01	0.5	-0.2	754	35 24.90	137 53.26	699.	627.85	6.8	4.6
705	35 22.97	137 55.02	801.	602.89	8.4	4.2	755	35 25.03	137 57.83	1138.	533.54	9.7	0.0
706	35 23.00	137 2.71	120.	733.04	0.4	-8.4	756	35 25.07	137 30.18	783.	601.93	5.1	-6.6
707	35 23.02	137 11.59	286.0	702.31	0.7	-6.1	757	35 25.24	137 33.43	813.	592.57	14.4	-1.0
708	35 23.13	138 6.37	1070.	523.22	29.3	-1.5	758	35 25.30	137 53.92	755.	617.11	6.5	4.1
709	35 23.21	137 27.91	476.	662.41	2.7	-5.1	759	35 25.31	137 17.68	588.1	645.39	5.3	-5.9
710	35 23.24	137 58.22	619.9	628.70	17.8	3.1	760	35 25.34	137 13.59	590.	681.51	0.7	-9.7
711	35 23.25	137 34.99	1349.	493.76	6.4	1.5	761	35 25.35	137 59.18	780.	598.70	17.0	1.0
712	35 23.26	137 31.89	1088.	542.65	3.2	0.2	762	35 25.37	137 23.69	577.	687.84	2.2	-4.5
713	35 23.27	137 35.61	1295.	407.71	5.8	1.9	763	35 25.40	137 56.58	578.5	686.84	1.6	-8.0
714	35 23.28	137 35.61	1295.	407.71	5.8	1.9	764	35 25.50	138 11.24	306.	632.13	3.2	0.0
715	35 23.49	137 31.83	264.5	707.58	3.8	-1.7	765	35 25.57	138 21.92	306.	632.13	3.2	0.0
716	35 23.49	137 31.81	394.	683.11	3.3	-8.1	766	35 25.74	138 15.42	1433.	513.17	23.8	-23.7
717	35 23.52	137 55.47	1404.	481.54	4.0	-3.2	767	35 25.75	137 15.42	1433.	513.17	23.8	-23.7
718	35 23.52	137 55.47	1404.	481.54	4.0	-3.2	768	35 25.82	138 1.95	1948.	670.09	2.5	-9.4
719	35 23.57	137 50.47	579.	652.89	4.7	5.7	769	35 25.88	137 24.74	391.7	683.51	2.4	-7.2
720	35 23.57	138 12.66	1058.2	522.05	27.8	-1.1	770	35 25.92	137 47.46	504.	662.60	3.0	-4.8
721	35 23.73	137 41.44	1073.	548.54	3.8	-2.0	771	35 26.03	137 38.94	957.	562.44	9.3	-8.8
722	35 23.75	138 12.67	1070.7	523.92	26.4	2.4	772	35 26.03	137 59.58	825.	589.30	14.7	1.3
723	35 23.76	137 47.41	482.	669.62	4.1	2.3	773	35 26.04	137 57.13	1184.3	525.05	9.8	-0.2
724	35 23.78	137 58.18	809.6	595.10	13.4	2.0	774	35 26.17	137 20.92	351.3	692.87	1.7	-6.1
725	35 23.81	137 8.44	180.	728.12	1.2	-1.9	775	35 26.18	137 25.82	307.	696.35	2.7	-8.5
726	35 23.87	137 6.12	130.	735.76	0.6	-4.8	776	35 26.29	138 13.41	1200.	490.51	25.7	-3.5
727	35 23.88	137 12.69	308.0	699.30	1.0	-5.7	777	35 26.34	138 12.58	1753.	399.44	21.2	-2.1
728	35 23.91	137 58.54	630.0	625.53	21.5	4.6	778	35 26.38	137 31.72	524.	650.38	9.2	-7.3
729	35 23.97	137 18.72	226.	714.82	2.8	-1.7	779	35 26.39	137 30.29	911.	570.07	6.5	-7.2
730	35 23.98	138 2.08	727.	591.95	33.1	1.8	780	35 26.48	138 1.72	1754.	410.34	16.7	4.4
731	35 23.99	137 36.14	1218.	518.83	7.0	0.0	781	35 26.60	137 43.13	631.	632.43	4.9	-8.6
732	35 24.01	137 49.61	478.	668.91	6.5	2.9	782	35 26.60	137 56.40	1010.9	561.18	8.6	-0.9
733	35 24.08	137 33.91	630.	637.90	2.0	-2.7	783	35 26.64	137 53.46	813.9	605.12	3.7	-1.0
734	35 24.10	137 39.44	635.	650.30	3.3	-8.1	784	35 26.68	138 2.48	1685.	416.80	18.1	-1.8
735	35 24.10	138 12.60	1087.3	521.16	25.3	-5.5	785	35 26.73	137 3.88	86.	751.23	0.5	-2.1
736	35 24.12	137 0.81	888.	745.11	0.4	-4.3	786	35 26.74	138 4.59	1247.	496.82	19.6	-7.6
737	35 24.22	137 30.89	883.	581.61	8.4	-2.6	787	35 26.78	137 31.20	479.	658.33	10.2	-7.8
738	35 24.29	137 15.63	278.9	702.88	1.6	-7.9	788	35 26.82	138 20.79	436.	642.59	17.0	-35.3
739	35 24.33	137 22.07	411.4	680.25	2.0	-4.0	789	35 26.85	138 26.79	216.6	687.50	6.9	-33.8
740	35 24.38	138 12.46	1070.9	523.36	23.9	-8.3	790	35 26.86	138 0.51	1167.	535.61	11.0	6.5
741	35 24.39	137 35.19	1084.	541.29	11.9	0.1	791	35 26.89	138 12.98	1586.4	426.80	17.7	-12.2
742	35 24.42	137 11.81	227.2	714.20	1.6	-6.9	792	35 26.90	137 23.94	287.6	707.26	1.6	-5.5
743	35 24.42	137 45.05	719.6	618.88	3.8	-2.7	793	35 26.91	138 13.42	1200.	494.84	24.5	-14.2
744	35 24.42	137 58.17	943.	571.13	11.4	1.5	794	35 26.93	137 8.00	290.	707.89	1.7	-4.3
745	35 24.47	138 21.61	335.7	659.50	17.4	-24.4	795	35 26.95	137 11.71	405.	681.64	1.0	-8.5
746	35 24.51	137 52.22	690.	631.03	3.4	-3.1	796	35 26.98	138 0.86	1360.	493.82	12.0	3.9
747	35 24.53	137 48.28	551.	654.86	3.6	-0.4	797	35 27.04	137 13.33	458.	671.42	1.2	-8.2
748	35 24.58	138 22.75	307.	661.17	18.1	-27.9	798	35 27.05	137 5.14	101.	748.92	0.9	-1.5
749	35 24.74	137 2.36	83.2	744.31	0.4	-6.9	799	35 27.05	137 51.85	563.	654.28	5.7	-0.1
750	35 24.75	137 7.02	190.	726.75	0.9	-2.9	800	35 27.07	138 3.47	1633.	424.77	17.1	-5.8

NO. TYPE	LAT	LONG	ALT (M)	G-VALUE (MGAL)	T.C. (MGAL)	B.A. (MGAL)	NO. TYPE	LAT	LONG	ALT (M)	G-VALUE (MGAL)	T.C. (MGAL)	B.A. (MGAL)
801	35 27 08	138 3 09	1573	979436.68	16.4	-8.5	851	35 28 97	138 2 40	1548	979454.48	15.6	2.8
802	35 27 12	137 33.44	1265	992.77	25.1	-8.7	852	35 29 03	137 26.18	304	699.02	1.7	-13.4
803	35 27 13	138 13.11	1215	499.77	25.1	-8.7	853	35 29 04	138 1.70	1401	487.93	12.2	3.5
804	35 27 15	137 55.82	1233	415.81	9.9	-11.5	854	35 29 10	137 51.70	392	689.47	4.5	-4.8
805	35 27 20	137 46.91	625	641.35	2.7	-1.6	855	35 29 12	137 47.60	344	689.27	1.8	-15.3
806	35 27 24	137 49.84	376	691.10	4.1	-2.2	856	35 29 12	138 17.08	1601	444.12	16.3	0.5
807	35 27 39	137 23.95	367.0	491.58	2.6	-5.2	857	35 29 16	137 36.23	568.8	548.16	7.1	-7.0
808	35 27 39	137 55.68	707.2	620.52	10.0	-1.5	858	35 29 32	137 51.83	395	751.03	0.8	-4.0
809	35 27 41	137 49.16	392.9	685.33	1.5	-7.4	859	35 29 36	137 41.83	375	702.66	3.2	-8.4
810	35 27 47	137 17.37	544	655.32	4.6	-4.5	860	35 29 41	137 9.02	180	726.55	3.4	-9.2
811	35 27 53	138 3 00	1552	436.22	21.3	-6.9	861	35 29 43	137 35.76	753	602.66	6.6	-16.8
812	35 27 55	137 1.85	97	746.78	0.4	-5.7	862	35 29 46	137 1.90	153	739.55	0.7	-7.5
813	35 27 57	138 13.52	1641	428.17	27.1	-14.3	863	35 29 50	137 53.64	473.2	667.77	6.1	-7.5
814	35 27 72	138 10.43	1201	785.97	3.2	-8.6	864	35 29 67	137 27.52	332	691.65	1.8	-16.1
815	35 27 82	137 4.80	696	614.80	6.7	-13.3	865	35 29 69	137 56.90	753	690.25	7.0	-8.9
816	35 27 89	137 7 40	1117	742.01	1.5	-5.9	866	35 29 69	137 18.90	329	692.25	7.4	-10.4
817	35 27 96	137 14.82	446	674.76	3.7	-6.1	867	35 29 72	137 47.21	622.6	634.20	3.8	-18.1
818	35 27 99	137 14.82	494	665.51	5.0	-4.8	868	35 29 72	138 14.98	1392.7	463.41	19.0	-16.9
819	35 28 00	137 0 87	86	749.89	0.5	-5.3	869	35 29 74	138 14.98	1380	463.95	20.2	-17.7
820	35 28 00	137 28.81	366.1	683.68	2.9	-13.8	870	35 29 82	138 1.13	1021	551.34	17.1	-6.8
821	35 28 01	138 20.64	474	634.93	18.3	-25.8	871	35 29 83	137 33.92	595	645.56	4.1	-8.1
822	35 28 11	137 27.21	315.4	696.74	2.1	-11.7	872	35 29 84	137 10.83	459	672.72	1.6	-10.5
823	35 28 11	137 38.12	1569	436.20	12.1	-13.6	873	35 29 86	137 42.78	808	592.62	7.2	-15.5
824	35 28 13	137 18.88	295	700.74	6.2	-7.6	874	35 29 86	137 45.81	857	586.08	5.1	-14.6
825	35 28 20	137 8 67	107	741.91	1.8	-8.1	875	35 29 91	137 35.22	620.7	627.71	6.7	-18.3
826	35 28 22	138 14.07	1285	478.19	24.8	-15.5	876	35 30 15	137 0 32	107	748.49	0.8	-5.3
827	35 28 23	138 12.59	2050	637.05	19.8	-9.3	877	35 30 18	137 24.30	340	692.36	1.6	-14.7
828	35 28 27	137 6 37	122	740.68	0.9	-7.4	878	35 30 20	138 24.12	514	623.66	14.5	-36.0
829	35 28 27	138 12.54	2073.2	633.83	21.6	-7.1	879	35 30 20	137 83.48	350	690.52	2.2	-14.0
830	35 28 29	137 11.37	192	719.85	6.1	-9.2	880	35 30 21	138 25.76	304	666.10	10.0	-39.7
831	35 28 39	137 21.82	238	717.25	3.4	-5.5	881	35 30 22	138 23.28	637	597.50	20.0	-32.5
832	35 28 41	137 58.18	432.2	635.21	8.9	-4.5	882	35 30 26	137 47.96	542	645.97	4.1	-18.8
833	35 28 42	137 39.37	986.3	479.45	2.2	-18.9	883	35 30 27	137 1.88	130	744.79	2.8	-2.7
834	35 28 43	137 33.33	118	741.50	4.1	-16.9	884	35 30 29	137 5 05	113.6	746.06	1.4	-6.0
835	35 28 45	137 27.22	319	694.33	2.2	-13.8	885	35 30 35	137 40.77	922	571.25	5.0	-17.3
836	35 28 49	138 14.10	1305	479.45	22.0	-15.4	886	35 30 36	137 19.54	681	629.43	2.0	-10.5
837	35 28 53	137 53.76	641.8	437.25	6.0	-5.4	887	35 30 37	138 33.92	628.5	678.13	4.7	-8.6
838	35 28 55	137 22.81	240	714.00	4.8	-7.2	888	35 30 41	137 34.26	474	566.20	17.1	-6.7
839	35 28 56	137 5 10	116	743.61	0.9	-4.1	889	35 30 42	137 34.26	474	663.68	6.9	-18.2
840	35 28 57	137 18.00	577	651.17	2.3	-6.0	890	35 30 47	137 18.11	405	681.62	3.7	-10.9
841	35 28 60	137 50.00	437.9	676.48	3.2	-7.4	891	35 30 51	137 44.82	1084	560.00	5.5	-18.5
842	35 28 62	138 14.46	1325	473.23	24.1	-13.8	892	35 30 55	137 69.36	498.7	655.32	2.0	-15.9
843	35 28 64	137 40.37	910	677.63	6.3	-13.6	893	35 30 56	138 19.43	628	603.75	29.3	-19.3
844	35 28 67	137 12.95	431	777.44	2.5	-8.6	894	35 30 61	138 1.47	888	574.77	18.2	-8.2
845	35 28 78	137 31.96	560	640.54	4.6	-17.9	895	35 30 88	137 22.75	426	674.20	2.7	-15.2
846	35 28 84	137 3 15	164	730.45	0.7	-7.3	896	35 30 89	137 9 35	494	666.04	2.6	-10.2
847	35 28 85	137 19.99	233	711.26	6.0	-10.6	897	35 31 00	138 5 64	1088	525.78	22.1	-17.5
848	35 28 86	137 23.35	336.5	693.32	1.8	-12.3	898	35 31 09	137 58.79	1000	561.41	7.5	-10.2
849	35 28 91	137 33.27	594	633.68	7.1	-15.8	899	35 31 10	138 19.26	653	597.91	29.7	-20.3
850	35 28 96	137 58.08	1010	556.70	12.2	-5.3	900	35 31 07	137 11.83	494	669.74	1.0	-8.7

NO. TYPE	LAT. N	LONG. E	ALT (M)	G-VALUE (MGAL)	T.C. (MGAL)	B.A. (MGAL)	NO. TYPE	LAT. N	LONG. E	ALT (M)	G-VALUE (MGAL)	T.C. (MGAL)	B.A. (MGAL)
901	35 31.10	137 1.53	862.	979577.80	19.6	-9.2	951	35 32.85	137 12.72	521.	979664.03	2.2	-10.4
902	35 31.14	137 3.29	159.	756.69	3.1	-4.0	952	35 32.87	137 13.56	526.	568.25	13.3	-15.0
903	35 31.16	137 5.37	1033.	533.46	23.6	-15.7	953	35 32.90	137 16.20	726.	506.35	6.9	-23.0
904	35 31.15	137 5.87	108.9	765.28	3.4	-7.0	954	35 32.90	137 16.20	726.	506.35	6.9	-23.0
905	35 31.19	137 47.96	594.	633.24	5.5	-20.1	955	35 32.90	137 16.20	726.	506.35	6.9	-23.0
906	35 31.22	137 15.17	574.	634.03	1.7	-9.1	956	35 32.95	137 18.62	725.	707.50	10.8	-12.7
907	35 31.37	137 26.81	318.	692.80	2.3	-19.6	957	35 32.95	137 18.62	725.	707.50	10.8	-12.7
908	35 31.38	137 8.19	377.	690.50	2.3	-10.3	958	35 33.17	137 18.62	570.	668.19	14.6	-18.7
909	35 31.40	137 10.92	517.	663.93	1.6	-9.9	959	35 33.17	137 18.62	570.	668.19	14.6	-18.7
910	35 31.41	137 0.93	162.	738.05	1.9	-5.6	960	35 33.23	137 18.62	1160.	576.70	4.9	-21.1
911	35 31.42	137 24.23	365.	684.29	2.6	-18.6	961	35 33.23	137 18.62	2864.7	428.28	43.9	-17.9
912	35 31.43	137 1.71	816.	586.30	19.6	-10.3	962	35 33.24	137 31.31	472.	656.75	4.9	-25.2
913	35 31.47	137 57.96	828.	593.90	7.2	-12.8	963	35 33.28	137 30.70	758.	598.24	7.5	-24.6
914	35 31.50	137 25.55	340.	687.62	3.2	-19.7	964	35 33.41	137 39.71	809.	589.84	5.8	-24.7
915	35 31.52	137 22.80	381.	680.82	2.7	-18.9	965	35 33.41	137 39.71	809.	589.84	5.8	-24.7
916	35 31.56	137 44.33	1014.	652.57	7.0	-17.5	966	35 33.47	137 38.78	485.	655.26	4.4	-25.0
917	35 31.59	137 14.70	588.	651.29	1.4	-8.9	967	35 33.51	137 46.09	872.	577.62	13.2	-17.2
918	35 31.60	137 22.35	431.	671.61	2.9	-18.2	968	35 33.52	137 39.69	840.	591.67	4.3	-18.5
919	35 31.60	137 18.75	683.	592.64	31.2	-18.9	969	35 33.61	137 37.76	385.	677.25	2.6	-24.8
920	35 31.63	137 57.43	759.	607.40	8.5	-11.9	970	35 33.65	137 30.40	565.	639.87	3.9	-25.4
921	35 31.67	137 51.63	437.	669.53	4.5	-17.5	971	35 33.67	137 4.56	243.	720.15	2.2	-10.4
922	35 31.70	137 38.43	958.	559.74	9.8	-18.9	972	35 33.67	137 5.93	215.	724.15	3.3	-10.9
923	35 31.75	137 42.22	1127.	530.49	5.7	-18.7	973	35 33.67	137 51.10	702.	611.71	5.9	-24.3
924	35 31.75	137 53.47	418.	677.14	4.7	-13.6	974	35 33.70	137 42.22	1292.	497.72	5.0	-22.2
925	35 31.84	137 4.70	958.	558.62	20.9	-9.1	975	35 33.73	137 21.73	797.	597.58	3.8	-21.9
926	35 31.85	137 19.30	651.	630.64	2.9	-16.0	976	35 33.73	137 33.56	434.	669.15	5.6	-20.3
927	35 31.89	137 40.13	1165.	521.92	5.2	-20.5	977	35 33.74	137 26.81	356.	682.75	3.5	-24.3
928	35 31.93	137 18.69	696.	592.70	28.4	-19.6	978	35 33.74	137 2.43	704.	609.27	15.7	-16.7
929	35 31.96	137 46.59	760.	599.54	10.3	-18.2	979	35 33.76	137 42.59	2758.	179.98	32.8	-19.4
930	35 32.00	137 16.17	503.	662.34	4.0	-12.7	980	35 33.82	137 25.86	511.	652.16	4.0	-23.9
931	35 32.07	137 4.16	1020.	546.94	17.8	-11.9	981	35 33.84	137 32.42	341.4	680.72	5.1	-27.7
932	35 32.08	137 7.27	135.3	759.64	3.2	-9.0	982	35 33.90	137 13.52	226.	718.15	5.2	-13.1
933	35 32.11	137 4.08	220.	723.47	2.8	-8.8	983	35 33.92	137 13.52	226.	718.15	5.2	-13.1
934	35 32.13	137 35.26	790.	594.61	5.2	-22.5	984	35 33.97	137 48.24	970.	558.71	6.6	-23.9
935	35 32.17	137 2.44	1018.	556.03	10.7	-10.5	985	35 33.97	137 48.19	825.	557.22	22.9	-21.9
936	35 32.20	137 11.57	547.	658.56	2.6	-9.4	986	35 34.03	137 50.60	800.	591.72	7.5	-23.8
937	35 32.21	137 13.09	488.	671.27	2.3	-8.7	987	35 34.14	137 39.75	630.	625.68	4.2	-27.1
938	35 32.21	137 26.76	313.	695.63	2.8	-18.5	988	35 34.14	137 13.74	1875.	368.54	20.6	-20.3
939	35 32.29	137 2.84	1173.	526.74	12.0	-7.9	989	35 34.15	137 31.94	317.	685.83	4.8	-28.2
940	35 32.39	137 2.02	751.	597.58	18.9	-14.2	990	35 34.16	137 56.72	720.6	615.88	5.9	-17.2
941	35 32.46	137 17.33	430.	677.25	3.4	-13.5	991	35 34.18	137 5.26	241.	720.43	1.3	-12.2
942	35 32.50	137 18.60	717.	589.02	28.7	-19.7	992	35 34.22	137 6.71	1328.	479.56	20.0	-19.0
943	35 32.52	137 18.63	468.	667.45	3.5	-15.7	993	35 34.23	137 6.90	228.	720.79	3.5	-12.3
944	35 32.56	137 3.85	931.	566.87	17.2	-10.9	994	35 34.23	137 11.17	3046.9	101.41	58.9	-14.5
945	35 32.62	137 9.47	149.3	732.61	9.3	-7.9	995	35 34.25	137 3.52	1237.	510.33	12.7	-13.7
946	35 32.63	137 49.13	715.	608.66	7.1	-22.1	996	35 34.28	137 21.86	619.	633.68	2.9	-22.7
947	35 32.67	137 52.85	442.	667.46	5.1	-19.4	997	35 34.28	137 27.79	351.	683.05	3.4	-25.9
948	35 32.71	137 51.48	582.1	634.78	4.6	-24.9	998	35 34.28	137 30.25	460.	661.26	3.6	-25.9
949	35 32.72	137 15.39	293.	703.38	5.3	-12.8	999	35 34.34	137 38.40	919.	568.23	7.0	-24.7
950	35 32.85	137 3.66	346.	699.53	1.9	-9.8	1000	35 34.35	137 35.80	418.	664.92	9.0	-25.2

NO. TYPE	LAT ° N	LONG ° E	ALT (M)	G-VALUE (MGAL)	T.C. (MGAL)	B.A. (MGAL)	NO. TYPE	LAT ° N	LONG ° E	ALT (M)	G-VALUE (MGAL)	T.C. (MGAL)	B.A. (MGAL)
1001	35 34.38	137 11.83	2920.	979144.33	42.4	-16.8	1051	35 35.66	137 13.54	207.	979717.59	6.8	-18.3
1002	35 34.39	137 10.98	741.8	642.13	3.9	-28.7	1052	35 35.66	138 3.09	735.	599.85	17.9	-20.5
1003	35 34.40	137 10.98	332.	685.57	3.5	-27.9	1053	35 35.70	137 23.96	456.	661.80	4.8	-26.9
1004	35 34.40	137 10.98	332.	685.57	3.5	-27.9	1054	35 35.70	137 23.96	456.	661.80	4.8	-26.9
1005	35 34.40	137 10.98	332.	685.57	3.5	-27.9	1055	35 35.70	137 23.96	456.	661.80	4.8	-26.9
1006	35 34.40	137 10.98	332.	685.57	3.5	-27.9	1056	35 35.70	137 23.96	456.	661.80	4.8	-26.9
1007	35 34.40	137 10.98	332.	685.57	3.5	-27.9	1057	35 35.70	137 23.96	456.	661.80	4.8	-26.9
1008	35 34.40	137 10.98	332.	685.57	3.5	-27.9	1058	35 35.70	137 23.96	456.	661.80	4.8	-26.9
1009	35 34.40	137 10.98	332.	685.57	3.5	-27.9	1059	35 35.70	137 23.96	456.	661.80	4.8	-26.9
1010	35 34.40	137 10.98	332.	685.57	3.5	-27.9	1060	35 35.70	137 23.96	456.	661.80	4.8	-26.9
1011	35 34.69	137 44.13	1404.	472.98	8.1	-23.0	1061	35 36.02	137 9.88	185.2	725.08	5.8	-16.6
1012	35 34.69	137 44.13	1404.	472.98	8.1	-23.0	1062	35 36.02	137 9.88	185.2	725.08	5.8	-16.6
1013	35 34.70	137 10.93	174.6	724.79	9.5	-19.0	1063	35 36.18	137 52.89	726.	602.66	5.9	-32.2
1014	35 34.70	137 10.93	174.6	724.79	9.5	-19.0	1064	35 36.18	137 52.89	726.	602.66	5.9	-32.2
1015	35 34.76	137 22.92	678.	621.37	3.4	-28.6	1065	35 36.28	137 27.53	536.	644.01	4.5	-30.0
1016	35 34.80	137 40.32	1074.	538.77	5.7	-25.3	1066	35 36.28	137 27.53	536.	644.01	4.5	-30.0
1017	35 34.81	137 16.13	328.	693.07	6.4	-18.1	1067	35 36.28	137 27.53	536.	644.01	4.5	-30.0
1018	35 34.83	137 4.24	906.	570.35	15.6	-17.2	1068	35 36.33	137 58.86	620.	634.24	8.6	-19.1
1019	35 34.86	137 5.28	254.	717.83	1.5	-13.2	1069	35 36.33	137 29.02	501.	651.05	3.1	-31.4
1020	35 34.86	137 20.88	511.	655.01	4.5	-19.7	1070	35 36.44	137 1.76	147.0	738.70	2.6	-14.4
1021	35 34.87	137 17.77	419.	675.64	4.4	-19.7	1071	35 36.44	137 48.56	1314.	482.30	16.1	-26.1
1022	35 34.95	137 45.83	1140.	523.93	13.2	-19.9	1072	35 36.58	137 15.62	260.	704.95	7.4	-21.2
1023	35 35.02	137 12.18	183.	726.99	5.3	-14.9	1073	35 36.65	137 27.73	372.	676.01	5.3	-30.1
1024	35 35.06	137 25.55	640.	625.99	4.2	-26.1	1074	35 36.65	137 50.77	1230.	502.13	10.4	-19.0
1025	35 35.07	137 29.09	499.	652.47	2.5	-29.2	1075	35 36.67	137 2.73	162.2	734.76	3.0	-15.3
1026	35 35.10	137 51.71	865.	577.69	6.6	-27.4	1076	35 36.71	137 31.17	647.	622.00	4.8	-30.4
1027	35 35.11	137 20.52	490.	658.66	4.2	-23.2	1077	35 36.75	137 41.17	1032.	545.68	7.9	-27.3
1028	35 35.14	137 29.86	358.	640.19	7.6	-28.8	1078	35 36.75	137 22.15	815.	595.10	5.6	-27.5
1029	35 35.14	137 29.86	358.	640.19	7.6	-28.8	1079	35 36.88	137 32.68	781.	591.42	7.0	-32.5
1030	35 35.15	137 35.15	367.	675.77	6.3	-28.3	1080	35 36.91	137 34.65	1004.	548.37	8.5	-30.1
1031	35 35.17	137 28.37	438.	664.33	2.5	-29.7	1081	35 36.91	138 32.09	258.0	690.25	2.9	-41.3
1032	35 35.17	138 0.93	624.	625.00	16.4	-18.2	1082	35 37.05	138 3.07	680.	570.11	15.9	-27.6
1033	35 35.18	138 5.11	1007.	549.65	18.4	-15.6	1083	35 37.05	137 25.11	750.	607.12	4.7	-27.6
1034	35 35.21	138 0.08	712.	612.31	11.4	-18.5	1084	35 37.03	137 28.01	197.	670.30	5.1	-27.7
1035	35 35.25	137 24.28	716.	611.31	4.9	-25.2	1085	35 37.04	137 51.48	887.	548.04	11.8	-20.3
1036	35 35.26	138 4.25	1151.	530.53	10.6	-14.1	1086	35 37.08	137 12.30	449.	623.84	1.9	-21.2
1037	35 35.28	137 27.34	410.	671.51	3.3	-26.6	1087	35 37.10	137 25.71	613.	631.79	4.4	-28.4
1038	35 35.29	137 25.76	562.	641.75	3.7	-26.6	1088	35 37.12	137 29.92	522.	644.72	5.3	-32.5
1039	35 35.29	137 27.65	341.	684.57	3.9	-27.3	1089	35 37.15	137 31.90	839.	582.11	7.8	-29.9
1040	35 35.32	137 23.96	810.	593.05	4.5	-35.3	1090	35 37.15	137 38.28	610.	630.48	8.1	-26.6
1041	35 35.35	137 58.22	803.	603.83	4.7	-15.8	1091	35 37.22	137 22.78	710.	615.64	3.1	-26.8
1042	35 35.41	137 26.77	459.	661.72	4.1	-26.8	1092	35 37.25	137 35.21	905.	570.34	8.1	-28.4
1043	35 35.45	137 24.73	595.	635.03	4.6	-26.0	1093	35 37.30	137 10.30	202.5	723.05	4.8	-18.0
1044	35 35.47	138 3.57	1013.	554.23	11.2	-17.5	1094	35 37.36	137 56.57	586.	641.35	5.8	-23.0
1045	35 35.51	137 52.31	812.	587.13	5.9	-29.7	1095	35 37.37	137 26.39	570.	640.25	3.7	-29.5
1046	35 35.51	138 30.48	250.9	686.16	3.5	-44.2	1096	35 37.39	138 7.67	1194.	498.19	25.0	-26.5
1047	35 35.57	137 19.89	531.	651.63	3.2	-23.7	1097	35 37.40	137 5.80	390.	689.19	1.9	-18.0
1048	35 35.60	137 24.11	748.	611.45	4.7	-25.4	1098	35 37.44	137 17.69	335.	689.62	5.3	-25.0
1049	35 35.61	137 25.00	537.	645.45	5.9	-27.0	1099	35 37.45	137 3.00	178.7	759.47	5.4	-15.9
1050	35 35.62	137 27.35	365.	679.81	4.1	-26.6	1100	35 37.47	137 55.54	496.	655.56	5.7	-26.9

NO. TYPE	LAT	LON	ALT (M)	G-VALUE (MGAL)	T.C. (MGAL)	B.A. (MGAL)	NO. TYPE	LAT	LON	ALT (M)	G-VALUE (MGAL)	T.C. (MGAL)	B.A. (MGAL)
1101	35 37.52	137 35.17	866.	979578.51	7.2	-29.2	1151	35 38.98	138 3.80	1012.	979554.21	13.2	-20.7
1102	35 37.52	137 38.83	858.	592.42	4.2	-20.0	1152	35 38.98	138 37.40	283.4	709.65	3.8	-22.9
1103	35 37.53	137 28.01	418.	665.72	3.7	-35.2	1153	35 39.04	137 23.55	606.	634.78	4.0	-39.9
1104	35 37.58	138 4.28	1092.	537.70	13.3	-19.2	1154	35 39.04	137 28.62	713.	606.81	9.0	-34.3
1105	35 37.60	137 50.99	1030.	535.75	17.7	-29.1	1155	35 39.09	137 13.20	336.	693.16	4.4	-32.3
1106	35 37.63	137 27.40	408.	668.66	6.7	-30.4	1156	35 39.09	138 25.52	476.	652.43	9.8	-32.2
1107	35 37.65	138 18.72	1086.	524.83	26.4	-20.3	1157	35 39.10	137 35.88	462.	697.26	5.2	-34.7
1108	35 37.68	137 59.82	727.	612.40	10.3	-20.1	1158	35 39.10	137 33.92	1285.	495.46	8.3	-30.3
1109	35 37.71	138 32.97	260.1	694.44	2.9	-37.8	1159	35 39.15	137 23.06	560.	644.40	3.9	-32.7
1110	35 37.79	137 11.06	211.3	719.26	5.9	-19.7	1160	35 39.15	137 58.62	909.	578.84	7.0	-29.9
1111	35 37.81	138 22.07	797.	585.15	20.5	-23.4	1161	35 39.24	137 42.36	880.	575.46	8.1	-31.1
1112	35 37.85	137 27.04	328.9	659.99	2.7	-31.9	1162	35 39.24	138 0.62	948.	572.97	5.8	-32.4
1113	35 37.87	137 28.09	410.	634.61	3.7	-33.7	1163	35 39.30	137 22.77	499.	653.11	5.3	-39.7
1114	35 37.88	137 31.14	410.	626.53	3.1	-25.8	1164	35 39.32	137 28.27	490.	649.32	6.3	-36.4
1115	35 37.89	138 3.44	936.	626.73	17.9	-25.1	1165	35 39.32	138 28.48	1342.	442.17	19.9	-20.7
1116	35 37.90	137 35.37	753.	601.40	7.4	-29.1	1166	35 39.33	138 56.94	257.6	763.17	3.6	-36.8
1117	35 38.03	137 24.74	425.	644.58	4.9	-33.1	1167	35 39.35	138 52.65	201.0	708.12	2.6	-33.3
1118	35 38.04	137 41.07	900.	571.11	7.7	-30.2	1168	35 39.45	137 21.60	1195.	508.18	6.9	-33.5
1119	35 38.04	138 0.09	809.	599.29	8.9	-29.6	1169	35 39.45	137 57.20	1111.	529.18	20.6	-33.9
1120	35 38.05	137 23.66	602.	636.12	3.4	-28.6	1170	35 39.48	138 7.88	1111.	529.18	20.6	-33.9
1121	35 38.05	137 35.92	642.	623.93	7.8	-28.4	1171	35 39.49	138 30.07	297.	691.44	3.4	-35.4
1122	35 38.07	137 4.40	261.0	713.90	3.7	-17.9	1172	35 39.54	137 52.68	1007.	545.46	8.9	-35.2
1123	35 38.07	138 21.44	1192.	518.89	15.8	-14.3	1173	35 39.56	137 25.51	480.	653.14	5.6	-35.9
1124	35 38.12	137 0.93	240.	720.99	3.6	-13.2	1174	35 39.56	138 28.08	355.	678.05	4.2	-36.8
1125	35 38.19	137 39.24	646.	623.48	8.2	-27.8	1175	35 39.57	138 31.99	277.8	699.40	3.2	-31.8
1126	35 38.20	137 35.02	806.	588.20	10.8	-28.9	1176	35 39.60	137 9.58	232.1	748.12	3.3	-32.0
1127	35 38.21	137 30.83	705.	607.16	8.5	-32.2	1177	35 39.62	137 35.02	821.	584.54	13.3	-36.0
1128	35 38.22	138 18.80	1115.	522.01	23.0	-21.5	1178	35 39.64	137 14.70	547.	644.51	4.6	-34.3
1129	35 38.24	137 24.41	792.	597.52	3.8	-29.4	1179	35 39.71	137 21.08	395.	676.08	5.9	-39.3
1130	35 38.25	137 23.26	578.	640.92	3.8	-28.4	1180	35 39.72	137 33.95	882.	573.10	12.2	-39.7
1131	35 38.30	137 19.55	337.	688.92	5.5	-26.3	1181	35 39.78	137 24.50	645.	613.25	8.5	-36.3
1132	35 38.34	137 26.99	441.	660.55	5.3	-34.4	1182	35 39.79	137 52.93	1076.	530.94	9.9	-35.7
1133	35 38.35	137 30.32	714.	605.34	8.1	-32.8	1183	35 39.80	138 2.25	1530.	453.44	10.1	-20.6
1134	35 38.39	137 8.82	268.1	710.95	4.4	-19.2	1184	35 39.80	138 4.06	1124.	533.49	12.5	-34.2
1135	35 38.39	138 24.22	564.	634.15	17.7	-24.2	1185	35 39.85	137 25.84	523.	642.47	7.4	-36.2
1136	35 38.41	138 1.21	996.	562.20	8.3	-19.9	1186	35 39.87	137 24.87	552.	638.87	7.4	-34.2
1137	35 38.44	137 26.09	451.	659.90	5.2	-33.3	1187	35 39.92	138 18.30	1534.	441.81	21.9	-22.0
1138	35 38.49	137 10.95	224.9	717.50	5.5	-20.2	1188	35 39.97	137 21.79	412.	672.35	5.8	-30.2
1139	35 38.50	137 2.19	240.	718.36	2.6	-19.3	1189	35 40.13	138 4.07	1171.	524.17	11.5	-20.5
1140	35 38.52	138 34.07	263.7	700.13	3.0	-32.5	1190	35 40.18	137 20.41	492.	656.74	6.6	-39.3
1141	35 38.54	138 17.86	1128.	511.40	32.3	-20.7	1191	35 40.19	137 1.42	280.	711.85	3.6	-19.3
1142	35 38.55	137 32.80	1443.	460.17	10.5	-31.2	1192	35 40.24	137 50.49	501.	646.29	7.7	-37.1
1143	35 38.58	137 10.31	223.3	718.49	4.3	-20.9	1193	35 40.25	137 50.60	1370.	471.50	14.0	-33.2
1144	35 38.59	138 0.49	864.	588.04	8.2	-20.7	1194	35 40.27	137 23.32	584.	637.90	4.4	-37.2
1145	35 38.60	137 25.32	554.	642.75	4.0	-31.6	1195	35 40.31	137 25.08	522.	644.37	5.5	-37.2
1146	35 38.62	137 3.93	250.	716.42	4.3	-17.8	1196	35 40.32	137 52.32	950.	555.75	11.7	-34.9
1147	35 38.66	137 28.53	622.	623.06	6.9	-35.0	1197	35 40.36	137 52.35	559.	642.38	6.9	-30.5
1148	35 38.72	137 14.70	418.	677.45	3.7	-24.3	1198	35 40.38	137 11.83	449.	672.68	4.9	-34.0
1149	35 38.82	137 26.46	447.	658.76	5.6	-35.4	1199	35 40.39	137 53.27	845.	576.19	9.1	-37.9
1150	35 38.82	137 56.72	567.	643.72	5.9	-26.4	1200	35 40.39	138 26.47	408.5	666.03	7.4	-36.2

NO. TYPE	LAT. ° N	LONG. ° E	ALT (M)	G-VALUE (MGAL)	T.C. (MGAL)	B.A. (MGAL)	NO. TYPE	LAT. ° N	LONG. ° E	ALT (M)	G-VALUE (MGAL)	T.C. (MGAL)	B.A. (MGAL)
1201	35 40.42	137 18.00	545.	979649.50	3.7	-29.5	1251	35 41.77	138 27.33	348.6	979683.01	4.9	-35.5
1202	35 40.45	138 17.67	1528.	443.26	21.3	-23.0	1252	35 41.79	137 27.32	337.	619.52	10.5	-24.4
1203	35 40.46	137 27.24	1070.	534.71	8.8	-35.2	1253	35 41.80	138 7.32	1031.	555.14	18.2	-15.0
1204	35 40.47	137 38.22	496.	648.63	11.1	-32.7	1254	35 41.82	137 25.52	414.	624.29	10.3	-26.5
1205	35 40.49	137 55.28	687.	609.87	4.7	-40.1	1255	35 41.84	138 5.87	1466.	537.55	10.2	-17.8
1206	35 40.51	137 40.29	599.	633.63	8.1	-30.4	1256	35 41.85	137 35.05	757.	592.85	17.7	-32.2
1207	35 40.55	137 29.26	1028.	540.18	13.6	-33.3	1257	35 41.87	137 57.48	565.	611.77	6.0	-33.0
1208	35 40.57	138 1.02	1047.	553.00	6.0	-24.4	1258	35 41.92	137 32.77	974.	553.32	12.8	-33.8
1209	35 40.60	137 51.64	1100.	525.20	13.7	-34.0	1259	35 41.93	137 34.20	829.	580.16	14.2	-34.2
1210	35 40.61	137 55.71	655.	617.78	4.7	-38.7	1260	35 41.98	137 30.44	1306.	490.71	8.4	-34.9
1211	35 40.63	137 28.78	978.	552.35	9.9	-35.0	1261	35 42.02	137 22.93	500.7	649.22	6.6	-37.9
1212	35 40.68	137 36.72	603.	624.83	16.6	-30.1	1262	35 42.14	137 23.43	982.	628.49	12.1	-37.3
1213	35 40.70	138 7.24	1047.	547.01	18.3	-18.3	1263	35 42.18	137 33.26	918.	562.34	15.1	-33.8
1214	35 40.71	137 42.73	681.	611.89	12.5	-31.8	1264	35 42.20	138 15.94	1598.	429.02	23.1	-24.0
1215	35 40.83	137 28.40	878.	569.86	13.3	-34.1	1265	35 42.25	137 17.48	550.	650.13	2.6	-31.6
1216	35 40.85	137 39.03	516.	644.76	11.6	-32.7	1266	35 42.34	137 40.15	750.	607.09	8.5	-33.2
1217	35 40.85	137 50.38	1500.	445.10	16.5	-32.2	1267	35 42.34	137 56.19	665.	617.51	4.5	-39.6
1218	35 40.88	137 27.93	853.	579.72	12.7	-33.9	1268	35 42.35	137 7.10	287.	709.81	4.0	-22.7
1219	35 40.90	137 22.87	458.	661.07	6.8	-32.7	1269	35 42.39	138 4.05	1317.	502.36	7.3	-22.7
1220	35 40.95	137 25.18	552.	636.42	7.2	-38.4	1270	35 42.42	138 6.36	1013.	559.48	15.8	-17.5
1221	35 40.96	137 36.16	617.	617.56	15.3	-30.4	1271	35 42.45	137 8.68	287.	705.94	6.4	-24.2
1222	35 41.00	138 17.36	1524.	617.56	23.0	-27.8	1272	35 42.50	137 3.51	420.	680.26	3.9	-22.3
1223	35 41.07	138 5.70	1260.	517.37	12.1	-24.0	1273	35 42.52	137 34.23	954.	561.33	13.2	-34.0
1224	35 41.08	137 28.90	1033.	510.38	12.9	-24.5	1274	35 42.54	137 22.61	1221.	644.13	7.1	-39.2
1225	35 41.10	137 12.14	409.	679.41	5.1	-24.1	1275	35 42.58	137 13.68	1282.	417.37	26.8	-19.8
1226	35 41.10	137 59.07	1012.	559.49	5.1	-24.5	1276	35 42.58	137 16.32	460.	627.51	9.5	-30.4
1227	35 41.14	137 27.28	780.	590.36	11.1	-35.7	1277	35 42.58	138 11.30	172.	413.17	2.0	-25.0
1228	35 41.15	137 44.51	997.	547.46	17.8	-29.1	1278	35 42.72	138 11.30	172.	413.17	2.0	-25.0
1229	35 41.25	137 35.98	795.	591.90	12.4	-30.1	1279	35 42.76	138 0.59	724.	631.19	7.5	-21.9
1230	35 41.26	138 16.91	1506.	441.42	27.7	-24.1	1280	35 42.87	138 26.35	371.7	678.28	6.0	-34.1
1231	35 41.29	137 5.08	352.	695.92	4.9	-21.2	1281	35 42.88	137 22.75	606.	625.11	8.1	-40.9
1232	35 41.36	137 59.50	924.	577.37	5.0	-26.5	1282	35 42.88	137 26.10	676.	609.01	14.2	-37.0
1233	35 41.38	137 25.66	567.	634.07	8.8	-36.8	1283	35 42.91	137 40.40	764.	600.03	9.5	-33.4
1234	35 41.40	137 13.93	371.	684.27	6.3	-27.9	1284	35 42.95	137 34.12	1047.	541.42	10.9	-34.5
1235	35 41.40	137 17.02	650.	630.74	2.0	-30.6	1285	35 42.95	138 5.60	1336.	518.59	10.5	-20.2
1236	35 41.41	137 0.32	373.	693.32	4.3	-20.6	1286	35 43.00	138 4.35	1028.	555.14	11.7	-23.8
1237	35 41.41	137 8.73	252.	715.09	5.2	-21.7	1287	35 43.01	137 58.45	591.	638.69	5.8	-32.8
1238	35 41.46	137 29.16	1246.	500.84	10.2	-34.1	1288	35 43.06	137 20.67	720.	608.81	5.9	-37.1
1239	35 41.46	138 0.71	852.	590.59	7.6	-25.2	1289	35 43.06	137 23.71	552.	639.12	7.3	-38.6
1240	35 41.47	138 4.01	1340.	495.63	6.9	-23.9	1290	35 43.11	137 21.24	757.	595.56	9.8	-39.2
1241	35 41.50	138 26.37	421.8	666.73	6.2	-35.6	1291	35 43.35	137 27.99	1042.	539.03	13.1	-36.3
1242	35 41.55	137 6.08	305.	705.61	4.3	-21.9	1292	35 43.36	138 1.58	844.	593.33	7.2	-27.1
1243	35 41.55	137 27.06	677.	609.83	13.5	-34.8	1293	35 43.41	138 13.65	1860.	381.85	16.9	-26.9
1244	35 41.55	137 40.02	578.	634.54	10.9	-32.4	1294	35 43.50	137 17.91	560.	645.71	4.2	-34.3
1245	35 41.56	137 53.38	1161.	513.11	10.5	-38.6	1295	35 43.54	137 26.40	705.	604.76	13.8	-36.9
1246	35 41.58	137 54.91	750.	596.15	5.4	-42.2	1296	35 43.61	137 26.99	833.	579.84	14.4	-35.9
1247	35 41.60	137 55.50	710.	602.84	18.9	-30.6	1297	35 43.64	138 13.37	1513.	374.19	14.2	-27.0
1248	35 41.68	137 19.22	650.	627.91	4.2	-31.6	1298	35 43.66	137 33.00	1460.	465.90	4.8	-35.0
1249	35 41.68	138 16.56	1387.	539.67	26.3	-32.2	1299	35 43.66	138 25.44	399.3	673.20	7.0	-35.9
1250	35 41.73	137 30.81	1207.	508.89	10.6	-35.8	1300	35 43.70	137 8.68	316.5	698.53	6.5	-27.5

NO. TYPE	LAT. ° N	° E	ALT (M)	G-VALUE (MGAL)	T.C. (MGAL)	B.A. (MGAL)	NO. TYPE	LAT. ° N	° E	ALT (M)	G-VALUE (MGAL)	T.C. (MGAL)	B.A. (MGAL)
1301	35 43.72	137 58.86	608.	979636.35	5.1	-33.4	1351	35 45.94	137 15.73	380.	979674.90	9.5	-38.8
1302	35 43.76	137 19.23	650.	627.04	4.3	-35.4	1352	35 45.98	137 10.44	771.	600.82	8.0	-37.0
1303	35 43.79	138 12.87	1980.	363.19	14.1	-35.4	1353	35 46.00	138 3.73	791.	587.34	5.5	-37.2
1304	35 43.86	137 57.79	569.	641.20	7.9	-36.7	1354	35 46.09	138 8.89	820.	582.83	8.2	-35.8
1305	35 43.91	137 36.86	1185.	522.95	3.8	-34.1	1355	35 46.05	138 5.89	820.	582.83	14.8	-19.6
1306	35 43.94	137 20.88	625.5	624.55	5.1	-40.2	1356	35 46.12	137 4.64	768.	624.89	4.5	-36.3
1307	35 43.95	137 54.96	750.4	598.31	5.9	-42.8	1357	35 46.15	137 18.07	408.8	634.08	4.9	-35.3
1308	35 43.99	137 14.00	389.	678.81	8.2	-31.6	1358	35 46.19	137 18.07	2857.	634.08	47.9	-28.7
1309	35 44.03	137 35.03	1366.	487.37	3.7	-33.9	1359	35 46.20	137 20.03	749.	601.75	7.1	-41.1
1310	35 44.03	138 5.73	1147.	537.35	9.4	-31.8	1360	35 46.24	137 53.16	1662.	433.86	17.4	-37.4
1311	35 44.07	136 59.35	548.	664.93	3.8	-18.6	1361	35 46.35	137 53.24	1645.	419.66	15.8	-37.3
1312	35 44.08	137 0.63	506.	672.88	1.5	-21.3	1362	35 46.36	138 23.77	479.5	659.74	5.2	-39.2
1313	35 44.13	137 3.66	389.	691.71	3.0	-24.2	1363	35 46.39	138 20.77	679.0	623.22	5.9	-35.5
1314	35 44.13	138 5.02	879.	586.82	10.2	-24.8	1364	35 46.40	138 19.89	667.	624.14	7.4	-35.5
1315	35 44.17	137 54.54	781.	591.03	6.9	-43.4	1365	35 46.41	137 6.85	414.	679.82	7.2	-30.1
1316	35 44.19	137 15.54	615.	635.97	3.3	-35.0	1366	35 46.50	137 11.64	595.	641.58	6.3	-33.8
1317	35 44.20	138 5.48	1115.	543.12	9.7	-32.3	1367	35 46.52	137 21.83	900.	566.05	16.0	-39.0
1318	35 44.25	137 25.75	792.	587.60	15.1	-36.5	1368	35 46.55	137 59.50	853.	594.83	3.9	-31.9
1319	35 44.28	138 12.87	2036.	352.43	13.2	-26.2	1369	35 46.68	138 21.74	609.2	635.65	5.4	-37.8
1320	35 44.42	137 6.75	338.	696.66	5.2	-27.4	1370	35 46.73	137 43.66	953.	561.47	8.8	-40.6
1321	35 44.43	137 33.33	1390.	481.38	4.2	-35.2	1371	35 46.75	138 2.41	987.	566.93	4.4	-32.9
1322	35 44.50	137 27.19	1085.	533.32	10.5	-37.7	1372	35 46.78	137 35.62	1237.	515.92	2.5	-36.2
1323	35 44.56	137 5.41	360.	695.76	2.8	-26.7	1373	35 46.84	137 17.42	524.	646.26	5.6	-44.1
1324	35 44.70	138 1.31	958.	574.81	4.4	-27.8	1374	35 46.89	137 10.01	429.	673.95	5.2	-35.7
1325	35 44.77	137 25.08	859.	580.30	11.8	-38.6	1375	35 46.94	137 0.83	305.	709.26	5.0	-25.2
1326	35 44.77	138 5.27	1069.	551.17	10.6	-23.3	1376	35 46.95	138 20.70	601.	639.30	6.6	-35.0
1327	35 44.80	137 20.45	688.8	613.90	4.4	-42.1	1377	35 46.98	137 4.65	481.	666.84	6.6	-31.3
1328	35 44.82	137 23.93	1003.	549.74	9.3	-39.2	1378	35 46.98	137 48.65	2925.	140.05	48.3	-29.3
1329	35 44.85	137 27.62	1209.	509.29	10.1	-38.0	1379	35 47.05	137 22.48	1070.	532.93	14.0	-41.1
1330	35 44.90	137 32.53	1580.	441.83	6.4	-35.4	1380	35 47.06	137 36.42	1107.	541.37	2.9	-36.5
1331	35 45.11	138 5.15	1007.	564.50	7.7	-35.6	1381	35 47.06	137 44.95	1300.	493.13	12.3	-37.0
1332	35 45.19	137 35.74	1145.	530.22	4.6	-35.7	1382	35 47.12	137 30.56	966.	559.22	11.0	-38.6
1333	35 45.24	137 24.94	926.	564.47	10.5	-39.1	1383	35 47.16	138 5.51	878.	592.50	7.7	-26.1
1334	35 45.36	138 1.73	1040.	558.14	4.3	-29.3	1384	35 47.18	138 18.79	739.	608.39	8.1	-37.4
1335	35 45.45	137 4.50	416.	684.58	3.8	-27.1	1385	35 47.22	137 48.46	2956.3	126.80	55.3	-29.5
1336	35 45.48	137 28.90	1270.	499.37	8.3	-38.3	1386	35 47.22	138 2.17	884.	585.96	4.1	-35.2
1337	35 45.48	137 51.18	1400.	466.83	19.8	-33.7	1387	35 47.30	137 5.28	496.	641.66	6.8	-33.7
1338	35 45.48	138 24.27	445.2	664.94	6.1	-38.6	1388	35 47.33	137 53.20	1505.	449.39	13.2	-39.5
1339	35 45.50	136 58.94	251.	722.57	4.9	-20.5	1389	35 47.35	137 20.96	1110.	524.88	13.8	-41.9
1340	35 45.55	137 19.34	563.	636.94	6.0	-43.5	1390	35 47.38	137 57.88	608.	637.51	4.5	-38.1
1341	35 45.55	137 59.45	716.	617.15	5.3	-33.7	1391	35 47.42	137 1.07	317.	703.94	7.0	-26.8
1342	35 45.56	137 6.52	368.	690.66	4.9	-39.4	1392	35 47.44	137 32.73	1039.	551.33	6.5	-37.0
1343	35 45.56	138 2.78	1290.	509.31	5.6	-27.3	1393	35 47.46	137 18.99	900.	566.58	11.6	-44.3
1344	35 45.67	137 9.67	427.	674.51	5.2	-33.9	1394	35 47.47	138 8.62	1091.	548.76	18.3	-17.5
1345	35 45.73	138 4.66	836.	596.17	9.4	-27.1	1395	35 47.53	137 4.19	521.	637.86	6.5	-33.2
1346	35 45.74	137 50.77	1552.	437.71	20.2	-32.5	1396	35 47.53	137 59.72	733.	615.16	4.4	-36.1
1347	35 45.78	137 54.58	1126.	521.68	14.0	-39.5	1397	35 47.68	137 37.80	1126.2	536.84	3.2	-37.8
1348	35 45.85	137 24.47	1219.	505.42	10.5	-40.9	1398	35 47.69	137 11.43	429.	668.70	9.9	-37.4
1349	35 45.87	137 50.23	1692.	412.94	20.4	-29.4	1399	35 47.70	137 42.98	901.	575.03	6.3	-41.2
1350	35 45.90	137 38.95	1018.	554.74	5.2	-36.8	1400	35 47.76	137 44.15	1050.	542.46	10.3	-40.4

NO. TYPE	LAT ° N	LONG ° E	ALT (M)	G-VALUE (MGAL)	T.C. (MGAL)	B.A. (MGAL)	NO. TYPE	LAT ° N	LONG ° E	ALT (M)	G-VALUE (MGAL)	T.C. (MGAL)	B.A. (MGAL)
1401	35 47.77	137 7.37	488.	979459.70	8.3	-36.5	1451	35 49.69	137 26.90	1417.	979466.01	8.6	-48.3
1402	35 47.87	137 26.90	1081.	537.79	9.2	-44.9	1452	35 49.71	137 25.38	1303.	496.65	4.1	-44.9
1403	35 47.91	137 58.73	895.	537.79	9.2	-44.9	1453	35 49.71	137 25.38	1303.	496.65	4.1	-44.9
1404	35 47.91	137 58.73	895.	537.79	9.2	-44.9	1454	35 49.71	137 25.38	1303.	496.65	4.1	-44.9
1405	35 48.08	137 9.90	429.	603.78	7.8	-37.7	1455	35 49.71	137 25.38	1303.	496.65	4.1	-44.9
1406	35 48.10	137 21.34	560.3	603.78	8.1	-37.7	1456	35 49.71	137 25.38	1303.	496.65	4.1	-44.9
1407	35 48.10	137 21.34	560.3	603.78	8.1	-37.7	1457	35 49.71	137 25.38	1303.	496.65	4.1	-44.9
1408	35 48.17	137 44.73	1360.3	603.78	5.1	-37.0	1458	35 49.71	137 25.38	1303.	496.65	4.1	-44.9
1409	35 48.24	137 21.66	1347.	485.50	6.3	-42.9	1459	35 49.71	137 25.38	1303.	496.65	4.1	-44.9
1410	35 48.27	137 18.48	890.	568.88	12.2	-44.5	1460	35 49.88	137 28.13	1285.	493.96	7.7	-47.8
1411	35 48.33	137 34.92	897.	579.22	5.6	-39.4	1461	35 49.88	137 28.13	1285.	493.96	7.7	-47.8
1412	35 48.37	137 3.81	594.	643.23	6.9	-34.2	1462	35 49.88	137 28.13	1285.	493.96	7.7	-47.8
1413	35 48.40	137 33.61	909.	578.57	5.1	-38.3	1463	35 50.11	137 17.86	949.	561.91	10.1	-46.9
1414	35 48.44	138 12.09	1224.	509.32	20.4	-29.8	1464	35 50.18	137 37.51	770.	613.03	4.7	-34.3
1415	35 48.45	137 58.34	676.	625.59	3.2	-39.5	1465	35 50.24	137 37.51	813.9	599.20	5.3	-38.9
1416	35 48.48	137 16.78	740.	598.81	9.2	-47.6	1466	35 50.27	138 9.68	1418.	472.63	13.3	-37.6
1417	35 48.52	137 56.83	624.	627.20	4.9	-46.5	1467	35 50.27	138 18.37	680.4	624.00	5.9	-40.0
1418	35 48.65	137 7.11	549.	648.07	7.2	-38.4	1468	35 50.29	137 32.81	1321.	496.49	4.7	-41.6
1419	35 48.69	138 9.22	1241.	524.58	14.2	-17.7	1469	35 50.30	137 0.80	463.	673.40	6.5	-33.1
1420	35 48.70	137 15.36	474.	653.13	9.2	-46.2	1470	35 50.32	137 1.76	400.	683.45	7.1	-34.9
1421	35 48.71	137 29.73	1314.	496.52	4.9	-40.5	1471	35 50.34	137 41.60	749.1	610.67	6.8	-39.0
1422	35 48.76	137 38.28	809.	597.07	8.7	-36.6	1472	35 50.39	137 22.44	1305.	494.93	4.3	-47.0
1423	35 48.79	137 19.04	1050.	559.44	10.9	-44.3	1473	35 50.45	138 1.20	748.	613.45	2.5	-40.9
1424	35 48.82	137 20.05	1460.	462.39	7.0	-43.7	1474	35 50.57	137 39.16	954.	575.70	4.2	-36.3
1425	35 48.82	137 22.10	1310.	493.65	4.6	-44.7	1475	35 50.74	137 46.17	1064.	542.88	11.7	-39.8
1426	35 48.83	137 35.87	894.	581.94	4.9	-38.7	1476	35 50.74	138 6.37	991.	582.34	6.7	-20.0
1427	35 48.86	138 21.35	1442.	567.26	3.6	-43.9	1477	35 50.75	138 4.72	772.	615.41	7.2	-29.9
1428	35 48.90	138 9.82	1500.	541.51	13.6	-47.6	1478	35 50.85	137 48.03	859.	577.81	11.3	-46.3
1429	35 48.91	138 4.43	782.	648.07	8.7	-30.9	1479	35 50.86	138 10.07	1340.	456.15	13.9	-50.0
1430	35 48.94	137 4.12	759.1	605.57	8.0	-38.9	1480	35 50.87	138 9.27	1499.	479.24	13.0	-16.1
1431	35 48.96	137 1.76	377.	685.96	10.3	-31.9	1481	35 50.92	137 8.73	560.	648.70	7.3	-42.7
1432	35 49.06	138 5.41	863.3	597.69	6.0	-28.3	1482	35 51.33	137 32.33	777.0	583.74	9.4	-38.6
1433	35 49.13	137 31.66	1077.	544.35	6.3	-39.0	1483	35 51.38	137 56.26	840.	597.34	8.6	-38.6
1434	35 49.18	138 19.14	641.6	631.30	5.8	-39.0	1484	35 51.41	137 7.93	1192.	539.71	9.5	-28.5
1435	35 49.23	137 11.88	534.	648.66	5.8	-38.1	1485	35 51.44	137 55.76	780.	599.71	3.7	-48.1
1436	35 49.30	137 33.46	1014.	558.33	6.0	-38.1	1486	35 51.44	137 13.72	925.	590.70	14.4	-38.0
1437	35 49.30	138 3.97	773.	613.82	4.8	-31.6	1487	35 51.53	137 58.40	666.	626.44	2.9	-44.9
1438	35 49.32	137 23.77	1305.	494.44	4.3	-46.0	1488	35 51.54	137 20.54	698.7	618.71	8.5	-40.5
1439	35 49.32	137 39.70	771.	606.73	6.0	-37.9	1489	35 51.58	137 23.00	1350.	485.68	5.0	-47.8
1440	35 49.36	137 51.91	1240.	503.26	16.6	-37.8	1490	35 51.58	137 23.00	1350.	485.68	5.0	-47.8
1441	35 49.38	137 4.06	731.	616.53	5.1	-37.0	1491	35 51.53	138 10.89	1779.	416.88	11.9	-24.4
1442	35 49.41	137 15.82	670.	614.42	8.4	-48.0	1492	35 51.54	137 45.42	932.	572.34	7.3	-42.0
1443	35 49.42	137 6.16	754.	610.23	6.6	-37.3	1493	35 51.54	137 57.30	722.	614.24	2.9	-46.2
1444	35 49.42	137 9.50	459.	664.37	8.5	-39.7	1494	35 51.45	138 9.25	1604.	464.70	9.2	-14.3
1445	35 49.45	137 38.19	765.	607.72	6.8	-37.5	1495	35 51.47	137 32.16	1648.6	423.92	9.0	-46.4
1446	35 49.47	137 15.91	700.	608.61	9.3	-47.0	1496	35 51.49	137 7.69	568.	645.83	5.9	-42.2
1447	35 49.53	137 46.75	1340.	608.95	11.8	-37.3	1497	35 51.49	137 43.61	810.6	597.21	5.8	-41.1
1448	35 49.57	137 57.80	639.	628.45	3.5	-45.2	1498	35 51.54	137 45.56	1150.	523.17	7.7	-47.8
1449	35 49.62	137 58.78	653.3	629.82	3.0	-41.6	1499	35 51.54	137 20.54	900.	568.37	12.5	-47.4
1450	35 49.64	137 58.31	648.	628.93	3.2	-43.4	1500	35 51.58	138 7.28	968.	582.36	9.9	-22.6

NO. TYPE	LAT	LONG	ALT (M)	G-VALUE (MGAL)	T.C. (MGAL)	B.A. (MGAL)	NO. TYPE	LAT	LONG	ALT (M)	G-VALUE (MGAL)	T.C. (MGAL)	B.A. (MGAL)
35 51.66	138 5.92	926.	979588.28	6.0	-29.0		35 53.87	137 20.99	917.	979566.31	11.7	-50.2	
35 51.69	137 57.26	734.	612.30	2.9	-46.2		35 53.87	137 39.45	970.	567.83	6.7	-43.2	
35 51.78	137 24.38	1460.	458.92	6.9	-51.5	2	35 53.88	137 7.28	816.	599.86	5.7	-42.7	
35 51.81	137 11.19	613.	651.33	5.7	-48.4	1554	35 53.88	137 55.35	962.	565.37	6.1	-47.8	
35 51.83	138 1.81	780.	609.63	3.3	-39.6	1555	35 53.89	138 11.85	1432.	484.75	8.8	-32.4	
35 51.84	137 34.16	1050.	549.48	8.4	-41.0	1556	35 53.90	138 10.49	1791.	424.07	9.9	-20.5	
35 51.90	137 55.87	801.	595.51	3.8	-49.1	1557	35 53.95	138 13.73	943.	573.80	4.3	-45.1	
35 51.97	137 1.70	494.	648.74	6.5	-34.0	1558	35 54.02	137 46.58	882.1	582.40	8.6	-44.4	
35 52.00	138 0.75	726.	618.36	2.9	-42.2	1559	35 54.02	137 57.54	786.	603.12	2.8	-48.5	
35 52.01	137 35.98	932.	575.45	6.1	-41.0	1560	35 54.05	138 6.09	883.	598.27	5.5	-31.4	
35 52.02	138 16.47	729.9	612.23	8.2	-42.2		35 54.08	137 19.10	646.	421.21	10.5	-50.5	
35 52.04	137 30.45	2256.1	275.97	9.2	-53.7	1561	35 54.09	137 41.15	936.	575.02	5.8	-43.9	
35 52.05	137 37.70	902.	582.29	7.7	-38.6	1562	35 54.13	138 12.71	1122.	539.79	6.9	-41.2	
35 52.06	137 24.75	1530.	433.31	8.7	-51.8	1563	35 54.16	137 36.12	1143.	537.63	3.4	-42.8	
35 52.15	137 51.59	1523.	437.42	7.5	-40.4	1564	35 54.19	138 4.86	1029.	567.69	6.0	-32.7	
35 52.21	138 7.67	1020.	573.80	9.6	-42.0	1565	35 54.21	138 7.97	1157.	551.30	6.7	-23.1	
35 52.38	137 59.02	688.	655.42	2.9	-43.2	2	35 54.34	137 49.07	1080.	542.41	8.9	-45.2	
35 52.42	137 19.92	816.	584.59	13.2	-48.3	1568	35 54.44	137 24.07	1332.	426.26	8.3	-52.3	
35 52.42	138 2.54	876.	591.88	4.6	-37.7	1569	35 54.48	137 17.01	882.	578.13	6.1	-51.8	
35 52.51	137 5.46	750.	612.71	6.8	-39.8	1570	35 54.64	137 8.62	594.	638.91	6.7	-47.7	
35 52.55	137 4.04	550.	653.58	7.1	-38.3	1571	35 54.64	138 2.86	1299.	507.59	6.8	-39.1	
35 52.55	138 14.22	825.	592.95	10.1	-41.5	1572	35 54.65	137 3.88	665.	627.53	9.7	-42.1	
35 52.60	138 9.74	1679.	447.84	8.6	-18.5	1573	35 54.65	137 59.33	687.4	624.19	3.1	-47.6	
35 52.62	137 45.77	879.9	582.97	7.4	-43.4	1574	35 54.73	138 13.88	952.	570.26	3.2	-49.1	
35 52.63	137 33.28	1350.	490.08	5.9	-44.4	2	35 54.80	137 5.94	1050.	557.97	3.5	-41.7	
35 52.68	137 18.62	1726.	603.02	12.0	-49.4	1576	35 54.80	137 40.72	998.	562.87	6.1	-44.5	
35 52.73	137 40.71	870.	589.36	5.6	-40.9	1577	35 55.03	138 9.01	1254.	536.19	7.1	-19.7	
35 52.75	137 55.29	910.	573.98	4.5	-49.5	1578	35 55.17	137 32.95	1434.	476.19	5.7	-50.2	
35 52.77	137 44.26	889.	582.04	8.4	-41.8	1579	35 55.17	137 56.84	852.	589.40	5.1	-48.4	
35 52.78	138 15.58	779.6	603.02	6.9	-44.0	1580	35 55.20	137 33.59	1323.	496.03	3.6	-49.9	
35 52.79	137 42.30	915.	577.20	8.1	-41.8	1581	35 55.21	138 6.00	936.	589.36	4.8	-32.2	
35 52.86	138 2.76	932.	580.86	6.0	-36.9	1582	35 55.24	137 27.14	1768.	398.45	9.1	-53.4	
35 52.91	137 57.07	781.	603.77	2.9	-47.2	1583	35 55.24	137 46.91	917.3	575.29	8.3	-46.5	
35 52.93	137 0.99	612.	646.88	8.2	-32.3	1	35 55.26	137 35.23	1124.	538.28	3.0	-47.9	
35 52.98	137 46.80	963.	565.73	8.6	-43.5	1585	35 55.35	138 0.33	729.	618.24	3.6	-45.8	
35 52.98	137 49.87	1176.	521.53	10.9	-43.1	1586	35 55.38	137 18.74	607.	630.68	11.2	-50.0	
35 52.99	138 11.00	1820.	414.35	9.4	-23.6	2	35 55.38	137 40.74	1040.	553.02	6.4	-46.5	
35 53.07	138 4.89	952.	583.51	5.1	-31.5	1588	35 55.41	138 9.24	1308.	518.79	5.8	-28.2	
35 53.14	137 10.39	558.	643.36	7.6	-47.3	1589	35 55.48	137 24.87	1474.	459.46	7.5	-52.9	
35 53.27	138 6.04	860.	601.68	6.0	-30.9	2	35 55.52	137 38.53	1190.	527.87	4.3	-44.3	
35 53.29	138 7.73	1111.	560.35	6.9	-31.6	1591	35 55.63	137 23.09	1320.	511.76	8.8	-50.0	
35 53.43	137 33.43	1570.	440.90	8.5	-48.4	2	35 55.72	137 17.54	590.	634.82	9.3	-51.5	
35 53.49	137 1.95	869.	595.04	5.8	-36.3	1593	35 55.76	137 58.06	776.	605.64	3.3	-50.0	
35 53.55	138 11.23	1580.	440.52	10.1	-35.4	1594	35 55.76	138 9.84	1450.	487.97	5.7	-31.3	
35 53.57	138 4.28	1132.	547.09	6.9	-31.1	1595	35 55.76	137 46.04	968.	567.88	6.6	-46.6	
35 53.64	137 44.35	970.	567.06	7.0	-43.3	1596	35 56.01	137 9.89	908.	577.06	6.7	-49.3	
35 53.70	137 59.30	670.6	627.72	3.2	-45.9	1597	35 56.02	137 15.24	503.6	653.90	9.5	-49.8	
35 53.77	138 2.40	1244.	518.33	5.7	-39.1	1598	35 56.03	137 11.48	548.	646.75	7.0	-50.6	
35 53.78	137 31.66	1760.	398.75	11.4	-50.3	1599	35 56.05	137 1.91	1000.	571.32	4.5	-39.0	
35 53.84	138 14.58	882.5	584.33	4.3	-46.4	1600	35 56.05	137 2.34	930.	583.62	5.8	-39.3	

NO.	TYPE	LAT	LONG	ALT	G-VALUE	T.C.	B.A.	NO.	TYPE	LAT	LONG	ALT	G-VALUE	T.C.	B.A.
		° N	° E	(M)	(MGAL)	(MGAL)	(MGAL)			° N	° E	(M)	(MGAL)	(MGAL)	(MGAL)
1701		36 0.70	137 58.43	772.	979616.35	5.7	-44.7	1751		36 3.03	137 51.78	979.	979570.38	10.4	-48.3
1702		36 0.75	137 58.43	802.	979609.35	5.9	-44.3	1752		36 3.09	137 54.58	1405.	979570.38	7.1	-53.1
1703		36 0.76	137 57.42	789.	979629.35	4.9	-44.3	1753		36 3.10	137 56.58	1316.	979570.38	8.9	-57.8
1704		36 0.82	137 57.42	924.	979629.35	5.4	-44.3	1754		36 3.17	137 58.58	1316.	979570.38	5.8	-57.8
1705		36 0.86	137 57.42	1574.	979629.35	8.4	-44.3	1755		36 3.21	137 58.58	1316.	979570.38	12.7	-47.0
1706		36 0.97	137 57.42	1574.	979629.35	10.6	-44.3	1756		36 3.21	137 58.58	1316.	979570.38	12.4	-49.0
1707		36 0.98	137 57.42	1574.	979629.35	8.4	-44.3	1757		36 3.21	137 58.58	1316.	979570.38	8.2	-52.2
1708		36 1.16	137 57.42	1574.	979629.35	10.4	-44.3	1758		36 3.21	137 58.58	1316.	979570.38	10.4	-51.7
1709		36 1.19	137 57.42	1574.	979629.35	6.7	-44.3	1759		36 3.21	137 58.58	1316.	979570.38	8.2	-51.7
1710		36 1.27	137 57.42	1574.	979629.35	15.1	-44.3	1760		36 3.21	137 58.58	1316.	979570.38	8.2	-48.5
1711		36 1.30	137 58.43	1695.	979629.35	7.4	-50.4	1761		36 3.60	137 45.21	1611.	979570.38	14.4	-55.3
1712		36 1.38	137 58.43	1695.	979629.35	9.9	-50.4	1762		36 3.67	137 48.33	1479.	979570.38	6.1	-55.8
1713		36 1.40	137 58.43	1695.	979629.35	9.9	-50.4	1763		36 3.77	137 48.33	1479.	979570.38	9.1	-54.4
1714		36 1.42	137 58.43	1695.	979629.35	8.8	-51.4	1764		36 3.80	137 51.53	1129.	979570.38	8.4	-49.7
1715		36 1.51	137 55.26	1006.	979629.35	4.5	-46.1	1765		36 3.88	137 52.28	1682.	979570.38	11.8	-50.9
1716		36 1.54	137 55.26	1010.	979629.35	6.6	-54.9	1766		36 3.93	137 55.78	1494.	979570.38	14.6	-55.0
1717		36 1.61	137 55.26	1010.	979629.35	3.5	-54.3	1767		36 4.00	137 58.79	870.	979570.38	3.0	-50.0
1718		36 1.63	137 57.42	959.	979629.35	10.0	-52.3	1768		36 4.10	137 58.79	736.	979570.38	7.7	-46.3
1719		36 1.63	137 57.42	1216.	979629.35	13.0	-49.5	1769		36 4.22	137 58.79	797.	979570.38	4.9	-46.9
1720		36 1.69	137 58.43	898.	979629.35	2.9	-43.6	1770		36 4.23	137 58.79	719.	979570.38	5.1	-46.8
1721		36 1.72	137 58.43	762.	979629.35	2.9	-59.2	1771		36 4.32	137 58.79	795.7	979570.38	8.3	-53.0
1722		36 1.78	137 58.43	986.	979629.35	3.0	-46.9	1772		36 4.32	137 58.79	689.	979570.38	4.6	-55.2
1723		36 1.84	137 58.43	883.	979629.35	9.4	-54.1	1773		36 4.35	137 58.79	885.1	979570.38	12.6	-54.9
1724		36 1.85	137 58.43	952.	979629.35	4.1	-48.1	1774		36 4.38	137 58.79	491.	979570.38	5.3	-48.2
1725		36 1.87	137 58.43	1384.9	979629.35	6.0	-58.4	1775		36 4.44	137 58.79	786.7	979570.38	3.8	-52.7
1726		36 1.94	137 58.43	944.	979629.35	3.9	-50.5	1776		36 4.46	137 58.79	1117.	979570.38	13.3	-54.7
1727		36 2.03	137 58.43	975.9	979629.35	8.7	-51.1	1777		36 4.50	137 58.79	786.	979570.38	2.7	-65.4
1728		36 2.10	137 58.43	925.	979629.35	8.9	-46.9	1778		36 4.53	137 58.79	763.	979570.38	5.6	-50.6
1729		36 2.14	137 58.43	804.	979629.35	3.6	-47.2	1779		36 4.55	137 58.79	851.	979570.38	7.3	-49.8
1730		36 2.20	137 58.43	1235.	979629.35	6.5	-50.7	1780		36 4.57	137 58.79	862.4	979570.38	9.5	-55.3
1731		36 2.22	137 58.43	945.	979629.35	3.2	-46.4	1781		36 4.58	137 58.79	1209.	979570.38	11.9	-50.4
1732		36 2.33	137 58.43	913.	979629.35	4.2	-49.8	1782		36 4.60	137 58.79	879.6	979570.38	2.6	-64.9
1733		36 2.35	137 58.43	1212.	979629.35	15.2	-50.2	1783		36 4.64	137 58.79	1055.	979570.38	9.8	-57.6
1734		36 2.46	137 58.43	1226.8	979629.35	9.2	-51.5	1784		36 4.66	137 58.79	663.	979570.38	3.4	-50.4
1735		36 2.50	137 58.43	1302.8	979629.35	8.0	-55.0	1785		36 4.66	137 58.79	1643.	979570.38	8.4	-58.8
1736		36 2.53	137 58.43	1199.1	979629.35	11.3	-54.5	1786		36 4.83	137 58.79	1284.	979570.38	5.3	-44.8
1737		36 2.54	137 58.43	872.	979629.35	9.2	-54.4	1787		36 4.87	137 58.79	1482.	979570.38	13.5	-54.9
1738		36 2.60	137 58.43	944.	979629.35	5.3	-47.7	1788		36 5.06	137 58.79	1068.	979570.38	13.9	-51.8
1739		36 2.67	137 58.43	760.	979629.35	2.8	-61.7	1789		36 5.18	137 58.79	1114.	979570.38	12.6	-55.9
1740		36 2.70	137 58.43	805.	979629.35	6.4	-44.4	1790		36 5.18	137 58.79	831.	979570.38	4.8	-45.1
1741		36 2.70	137 58.43	876.9	979629.35	8.6	-54.9	1791		36 5.18	137 58.79	738.	979570.38	4.3	-46.4
1742		36 2.77	137 58.43	1278.	979629.35	5.9	-53.4	1792		36 5.23	137 58.79	730.3	979570.38	4.2	-44.2
1743		36 2.79	137 58.43	676.0	979629.35	3.5	-48.9	1793		36 5.26	137 58.79	1073.	979570.38	8.9	-57.7
1744		36 2.82	137 58.43	714.	979629.35	3.7	-46.9	1794		36 5.35	137 58.79	785.	979570.38	2.7	-52.1
1745		36 2.84	137 58.43	1672.2	979629.35	4.6	-51.8	1795		36 5.41	137 58.79	1111.	979570.38	3.5	-59.6
1746		36 2.85	137 58.43	1201.	979629.35	7.4	-51.8	1796		36 5.44	137 58.79	661.	979570.38	9.1	-50.2
1747		36 2.85	137 58.43	1037.	979629.35	4.3	-46.5	1797		36 5.44	137 58.79	1528.	979570.38	4.1	-45.5
1748		36 2.86	137 58.43	1025.	979629.35	5.1	-52.0	1798		36 5.44	137 58.79	951.	979570.38	7.7	-56.0
1749		36 2.86	137 58.43	1592.	979629.35	13.2	-55.7	1799		36 5.48	137 58.79	812.	979570.38	8.2	-52.4
1750		36 2.96	137 58.43	819.	979629.35	2.4	-49.2	1800		36 5.60	137 58.79	812.	979570.38	8.5	-43.4

NO.	TYPE	LAT	LONG	ALT	G-VALUE	T.C.	B.A.	NO.	TYPE	LAT	LONG	ALT	G-VALUE	T.C.	B.A.
				(M)	(MGAL)	(MGAL)	(MGAL)					(M)	(MGAL)	(MGAL)	(MGAL)
1801	36	5.53	137 8.20	694.	979.58.61	6.4	-44.2	1851	36	8.43	138 12.96	1351.	979.512.05	3.2	-47.7
1802	36	5.54	138 5.35	848.	902.99	6.7	-49.0	1852	36	8.56	137 12.87	881.	678.57	2.3	-38.2
1803	36	5.75	137 39.66	1455.	471.94	9.2	-57.2	1853	36	8.56	137 23.61	882.	502.10	10.4	-45.5
1804	36	5.79	137 35.96	1025.	559.10	11.3	-53.5	1854	36	8.63	137 44.83	928.	582.18	17.6	-63.7
1805	36	5.83	137 48.41	1214.	521.89	10.9	-53.6	1855	36	8.66	137 24.23	989.	479.45	3.8	-48.2
1806	36	5.87	137 49.25	837.6	616.49	2.0	-42.7	1856	36	8.66	138 8.77	1511.	589.07	4.4	-42.2
1807	36	5.94	137 55.96	747.9	626.04	2.3	-50.7	1857	36	8.78	138 0.43	884.	508.60	8.5	-55.3
1808	36	5.98	138 10.46	1698.	432.00	6.5	-51.8	1858	36	8.79	137 50.49	1306.	622.43	4.3	-39.0
1809	36	5.99	137 43.70	1498.	458.76	12.8	-58.6	1859	36	8.81	137 4.73	835.	624.53	5.1	-37.9
1810	36	5.99	137 51.76	972.	575.97	7.8	-50.9	1860	36	8.84	137 8.44	827.			
1811	36	6.03	138 2.48	1292.	503.39	9.3	-58.5	1861	36	8.86	137 41.12	1004.	556.27	16.0	-60.2
1812	36	6.06	137 41.66	1010.	554.18	14.5	-58.5	1862	36	8.87	137 37.89	1342.	490.20	13.7	-61.4
1813	36	6.07	138 1.03	1040.	557.04	4.2	-60.1	1863	36	8.91	138 11.33	1452.	493.39	5.1	-45.0
1814	36	6.22	137 49.89	938.	578.59	10.9	-52.3	1864	36	8.93	137 56.39	657.	636.29	2.1	-63.0
1815	36	6.23	137 52.75	781.	616.82	3.5	-52.6	1865	36	9.00	137 37.06	659.2	635.16	2.1	-63.8
1816	36	6.26	137 38.90	1623.	438.13	9.9	-57.6	1866	36	9.16	137 15.40	560.	685.15	1.9	-33.8
1817	2	6.33	137 50.00	924.	581.91	10.4	-52.4	1867	36	9.20	137 54.35	691.	629.63	2.4	-63.0
1818	36	6.60	137 10.68	637.	654.62	4.1	-53.3	1868	36	9.22	137 46.91	975.	566.37	13.3	-59.0
1819	36	6.63	138 3.38	980.	573.58	8.7	-51.7	1869	36	9.23	138 0.84	940.	580.67	4.6	-60.4
1820	36	6.84	137 55.09	752.	627.83	2.4	-53.0	1870	36	9.27	137 18.18	635.	670.92	2.2	-33.1
1821	36	6.67	138 1.34	1173.	531.93	6.0	-57.8	1871	36	9.38	138 2.83	1610.	450.50	12.9	-49.4
1822	36	6.72	138 6.24	948.	585.96	9.2	-57.8	1872	36	9.39	137 52.64	711.	628.99	3.6	-58.7
1823	36	6.83	137 35.98	598.	489.91	9.7	-57.2	1873	36	9.35	137 52.61	2228.	508.59	20.3	-62.7
1824	36	6.83	138 14.01	1317.	518.91	3.9	-49.5	1874	36	9.74	137 14.74	352.	690.62	2.0	-30.5
1825	36	6.87	137 25.37	986.	573.17	10.5	-49.5	1875	36	9.74	137 14.74	1352.	470.70	10.5	-62.9
1826	36	6.93	137 20.04	720.	643.27	6.2	-36.5	1876	36	9.74	137 14.74	417.	632.95	3.4	-37.5
1827	36	7.01	138 9.77	1464.	442.88	7.2	-52.0	1877	36	9.84	137 54.16	641.	408.79	18.1	-65.8
1828	36	7.09	137 52.01	823.	607.45	4.8	-53.5	1878	36	9.87	138 3.38	1812.	408.79	18.1	-45.9
1829	36	7.12	137 42.22	1046.	547.28	12.2	-62.2	1879	36	9.96	137 46.47	781.	592.94	26.2	-60.0
1830	36	7.13	137 37.69	1454.	475.14	7.0	-58.4	1880	36	10.04	137 3.83	784.	636.66	6.5	-36.6
1831	36	7.13	138 1.87	1450.	476.24	10.3	-54.8	1881	36	10.07	137 18.61	627.	674.13	2.2	-32.6
1832	1	7.16	137 57.69	699.6	629.92	2.2	-58.3	1882	36	10.12	137 26.02	837.	609.90	10.0	-47.5
1833	36	7.18	137 53.47	770.	618.06	2.8	-55.6	1883	36	10.13	137 38.83	1030.	547.01	20.0	-82.1
1834	2	7.28	137 33.41	2703.	200.04	23.9	-67.2	1884	36	10.21	137 52.97	676.	634.34	3.1	-62.0
1835	36	7.31	137 33.48	2704.	199.98	23.9	-67.2	1885	36	10.28	137 57.85	626.	638.49	2.4	-68.5
1836	36	7.35	138 3.67	1050.	563.32	9.6	-48.2	1886	36	10.33	137 21.84	697.	651.37	5.0	-39.0
1837	36	7.59	137 56.26	696.	632.29	2.1	-57.3	1887	36	10.34	137 22.94	731.	638.43	8.5	-41.6
1838	36	7.65	137 11.58	608.	664.92	3.2	-41.1	1888	36	10.34	137 27.55	950.	588.09	7.5	-49.7
1839	36	7.71	137 43.32	988.	556.86	12.3	-64.8	1889	36	10.41	137 37.68	1443.	469.21	13.5	-64.7
1840	1	7.85	137 17.11	626.2	670.20	2.1	-33.6	1890	36	10.52	137 1.37	1112.	574.61	3.7	-35.1
1841	36	7.87	138 8.33	1308.6	520.21	4.8	-45.5	1891	36	10.52	137 29.29	1140.	545.73	8.6	-33.5
1842	36	7.96	137 9.44	693.	648.87	4.1	-39.9	1892	36	10.57	137 47.61	875.	590.55	11.3	-58.7
1843	36	7.96	137 46.18	1159.	520.46	17.2	-62.7	1893	36	10.59	137 36.96	1685.	422.45	12.9	-64.2
1844	36	7.96	137 34.16	731.	623.05	2.4	-59.9	1894	36	10.63	137 31.63	1582.	451.76	10.0	-58.3
1845	36	7.97	137 18.51	622.	670.08	3.4	-33.4	1895	36	10.63	137 52.04	744.	624.53	3.7	-58.4
1846	36	8.04	137 10.90	648.	558.65	3.0	-40.1	1896	36	10.75	137 35.02	1659.	428.89	10.9	-65.1
1847	36	8.04	137 10.86	653.	558.07	3.0	-39.8	1897	36	10.76	138 0.74	796.	614.43	5.5	-56.5
1848	36	8.09	138 3.29	1121.	531.72	10.2	-46.2	1898	36	10.84	137 47.52	724.	613.98	18.1	-56.7
1849	36	8.09	138 4.48	1166.	531.61	8.0	-59.6	1899	36	10.87	137 53.26	1306.	497.22	13.2	-64.9
1850	36	8.18	138 2.62	1587.	453.43	9.3	-52.6	1900	36	10.95	137 19.93	691.	650.02	2.8	-35.7

NO. TYPE	LAT	LONG	ALT (M)	G-VALUE (MGAL)	T.C. (MGAL)	B.A. (MGAL)	NO. TYPE	LAT	LONG	ALT (M)	G-VALUE (MGAL)	T.C. (MGAL)	B.A. (MGAL)
19001	36 11 23	137 37 63	1153	979534.10	35.7	-66.5	1951	36 14.61	137 58.40	611	979654.12	2.6	-61.9
19002	36 11 23	137 40 72	489	979534.10	35.7	-66.5	1952	36 14.61	137 58.40	611	979654.12	2.6	-61.9
19003	36 11 23	137 44 11	797	979534.10	35.7	-66.5	1953	36 14.61	137 58.40	611	979654.12	2.6	-61.9
19004	36 11 23	137 46 11	797	979534.10	35.7	-66.5	1954	36 14.61	137 58.40	611	979654.12	2.6	-61.9
19005	36 11 47	137 35 07	1920	403.76	10.1	-67.0	1955	36 14.67	137 55.98	589.6	443.32	17.6	-71.3
19006	36 11 41	138 4 21	923	600.45	10.5	-67.0	1956	36 14.67	137 55.98	589.6	443.32	17.6	-71.3
19007	36 11 62	138 0 62	790	625.43	5.1	-54.2	1957	36 14.72	137 50.42	725	420.10	7.5	-40.3
19008	36 11 63	137 58 23	604.2	644.19	2.6	-68.9	1958	36 14.72	137 42.22	724	670.18	6.6	-40.3
19009	36 11 64	137 53 32	1215	517.00	12.9	-64.7	1959	36 14.76	137 1.83	707	675.49	6.3	-48.0
19010	36 11 74	137 56 72	607	643.44	2.2	-69.6	1960	36 14.76	137 99.32	722	622.67	18.5	-50.7
19011	36 11 77	137 5 15	987	603.70	4.6	-31.6	1961	36 14.84	137 4.83	688	677.55	6.9	-19.2
19012	36 11 88	137 51 43	680	636.42	4.3	-60.3	1962	36 14.93	137 40.17	1529	456.50	13.6	-66.2
19013	36 11 91	137 55 21	619	632.59	2.2	-68.4	1963	36 14.98	137 48.49	1276	545.87	7.1	-36.2
19014	36 12 05	137 3 56	790	639.36	9.8	-30.3	1964	36 15.13	137 40.78	1543	457.57	13.0	-63.8
19015	36 12 11	137 17 65	605	632.62	6.5	-26.8	1965	36 15.18	137 38.83	1523	452.87	17.0	-68.5
19016	36 12 12	137 18 88	641	673.68	4.4	-31.0	1966	36 15.19	137 6.04	1358	535.15	9.8	-30.2
19017	36 12 17	137 6 50	1119	578.36	3.2	-32.8	1967	36 15.26	137 9.13	639	690.97	4.8	-20.1
19018	36 12 21	138 0 44	709	659.67	6.3	-49.7	1968	36 15.36	137 27.93	673	635.78	17.7	-50.5
19019	36 12 26	137 26 38	1168	546.95	7.5	-50.3	1969	36 15.37	137 26.43	620	650.74	16.0	-50.5
19020	36 12 29	138 12 93	825.6	631.87	6.0	-26.9	1970	36 15.42	137 11.54	549	699.32	5.7	-23.0
19021	36 12 31	138 5 73	1359	521.07	5.9	-43.8	1971	36 15.44	137 33.61	953	559.34	24.6	-66.1
19022	36 12 39	137 36 58	1315	483.83	22.2	-69.7	1972	36 15.48	137 40.94	1547	455.86	14.4	-63.7
19023	36 12 46	137 21 67	861	642.00	4.3	-59.8	1973	36 15.48	137 55.04	586.6	650.01	2.4	-72.3
19024	36 12 57	137 7 75	790	636.77	5.2	-52.8	1974	36 15.62	137 50.96	629	635.27	6.8	-61.9
19025	36 12 58	137 30 17	1715.8	627.98	3.4	-61.5	1975	36 15.71	137 13.31	837	645.00	5.4	-26.0
19026	36 12 58	137 37 17	1468	437.09	16.7	-50.1	1976	36 15.89	137 36.32	2155.9	321.13	36.8	-55.2

NO. TYPE	LAT ° N	LON ° E	ALT (M)	G-VALUE (MGAL)	T.C. (MGAL)	B.A. (MGAL)	NO. TYPE	LAT ° N	LON ° E	ALT (M)	G-VALUE (MGAL)	T.C. (MGAL)	B.A. (MGAL)
2001	36 17.54	137 52.89	567.	979652.46	3.7	-75.4	2051	36 21.87	137 19.37	1218.	979566.99	7.8	-33.8
2002	36 17.54	137 55.80	551.	458.50	2.7	-73.5	2052	36 21.92	138 3.28	905.1	640.52	4.7	-25.6
2003	36 17.61	137 56.78	1504.	454.06	19.1	-72.5	2053	36 21.93	137 45.79	1214.	525.47	20.5	-63.6
2004	36 17.87	137 50.33	460.	783.39	8.5	-41.3	2054	36 22.00	137 20.55	940.	623.55	3.9	-36.6
2005	36 17.93	137 55.19	1329.	482.43	24.4	-74.1	2055	36 22.05	138 8.24	538.2	720.07	3.4	-20.3
2006	36 17.96	138 9.77	665.5	681.53	5.9	-25.3	2056	36 22.10	137 47.61	972.	574.39	20.4	-63.1
2007	36 17.98	137 57.76	626.5	657.53	4.3	-58.8	2057	36 22.12	137 58.82	660.	668.43	4.9	-46.3
2008	36 18.03	137 57.88	968.	389.22	12.4	-31.2	2058	36 22.22	137 47.23	1046.	560.53	17.7	-65.1
2009	36 18.03	138 2.82	924.	622.57	7.4	-31.5	2059	36 22.22	138 7.11	595.9	709.46	4.6	-18.4
2010	36 18.04	137 46.08	1280.	515.01	19.6	-38.2	2060	36 22.28	137 50.00	658.	646.76	7.6	-65.9
2011	36 18.08	137 5.21	476.	728.70	11.4	-10.2	2061	36 22.33	138 9.53	504.	726.93	2.9	-21.1
2012	36 18.27	137 17.51	506.	702.05	16.3	-38.9	2062	36 22.58	138 12.72	854.	728.84	2.1	-28.6
2013	36 18.27	137 46.96	1178.0	538.17	14.3	-58.9	2063	36 22.58	137 48.77	859.	630.64	11.3	-64.1
2014	36 18.27	137 48.00	950.	579.66	15.6	-61.4	2064	36 22.60	137 23.08	874.	630.64	11.3	-64.1
2015	36 18.40	137 23.54	537.	675.40	17.3	-46.0	2065	36 22.77	137 23.76	1003.	607.91	5.7	-36.8
2016	36 18.46	137 35.92	1402.	470.87	22.9	-73.3	2066	36 22.82	137 21.46	928.	627.51	3.3	-37.1
2017	36 18.55	137 56.25	557.	663.24	3.7	-68.0	2067	36 22.84	137 57.93	605.	677.26	4.7	-19.6
2018	36 18.68	137 50.42	700.	632.22	7.2	-67.4	2068	36 22.85	138 4.95	912.8	646.78	3.7	-20.2
2019	36 18.68	138 1.53	754.	654.43	4.8	-36.8	2069	36 22.86	137 28.56	1280.	534.03	13.0	-50.8
2020	36 18.78	137 5.23	615.	704.31	11.1	-8.4	2070	36 22.86	137 53.56	558.	660.12	3.3	-77.6
2021	36 18.81	137 36.00	1447.	461.49	23.8	-73.4	2071	36 23.07	138 12.07	450.3	736.30	2.3	-24.0
2022	36 18.94	138 0.06	694.	658.98	3.5	-45.9	2072	36 23.18	137 45.08	1394.	492.49	19.9	-63.2
2023	36 19.05	137 52.94	562.	655.65	3.6	-75.5	2073	36 23.18	138 8.21	628.	706.33	3.6	-17.7
2024	36 19.06	137 51.90	597.	649.53	4.4	-73.8	2074	36 23.19	137 50.34	620.	655.99	6.9	-66.2
2025	36 19.11	137 59.78	692.	658.17	2.9	-48.0	2075	36 23.25	138 5.97	749.	681.32	4.5	-17.8
2026	36 19.12	137 24.63	589.	665.71	19.1	-44.6	2076	36 23.41	138 10.46	482.	734.11	3.4	-19.3
2027	36 19.33	137 26.07	709.	641.92	20.4	-43.7	2077	36 23.45	138 14.70	444.6	735.18	2.5	-26.6
2028	36 19.64	138 2.02	894.	629.13	4.4	-36.2	2078	36 23.51	137 22.17	833.	642.77	5.8	-38.8
2029	36 19.84	137 55.77	545.	664.95	3.5	-70.8	2079	36 23.55	137 28.26	1316.	531.89	13.1	-46.6
2030	36 20.12	137 19.49	635.	675.64	9.6	-36.5	2080	36 23.56	137 23.92	949.	619.93	5.7	-38.8
2031	36 20.17	138 2.01	804.	650.63	4.4	-33.3	2081	36 23.56	137 56.33	539.	684.51	5.5	-37.6
2032	36 20.60	138 0.24	665.	671.13	2.7	-43.1	2082	36 23.72	137 26.13	1139.	577.37	9.2	-40.4
2033	36 20.73	137 54.69	528.	662.02	2.9	-78.9	2083	36 23.90	138 1.81	694.	683.38	5.0	-27.1
2034	36 20.73	137 58.29	568.	674.90	3.2	-57.3	2084	36 23.98	137 41.16	1414.0	478.43	24.1	-70.2
2035	36 20.76	137 51.64	595.	676.45	3.8	-52.2	2085	36 23.99	137 17.76	322.2	739.92	18.0	-31.3
2036	36 20.78	137 51.64	595.	676.45	3.8	-52.2	2086	36 24.06	137 9.14	548.	725.93	4.1	-15.1
2037	36 20.95	137 20.42	1192.	523.78	6.0	-54.9	2087	36 24.46	137 53.85	619.	654.88	3.2	-73.2
2038	36 20.98	136 1.31	692.	670.93	1.5	-34.5	2088	36 24.50	137 22.87	427.1	745.89	5.3	-20.0
2039	36 21.00	138 6.91	645.	670.82	3.4	-38.8	2089	36 24.54	137 50.87	697.	658.36	5.1	-69.2
2040	36 21.22	137 23.36	1008.	605.34	8.0	-38.0	2090	36 24.71	137 41.06	1372.	488.37	27.0	-66.7
2041	36 21.32	138 10.49	512.	720.89	2.6	-24.4	2091	36 24.76	138 6.43	830.	671.48	3.6	-16.8
2042	36 21.36	137 27.33	975.	592.70	21.5	-42.0	2092	36 24.80	137 59.77	597.	692.71	4.6	-18.9
2043	36 21.41	138 2.67	837.2	649.31	4.4	-29.9	2093	36 24.83	138 0.88	619.	695.11	2.5	-38.9
2044	36 21.42	137 59.87	706.	663.77	3.0	-42.8	2094	36 25.15	137 53.65	620.5	650.50	5.1	-24.9
2045	36 21.52	137 23.07	968.	614.97	6.0	-36.8	2095	36 25.27	138 11.82	414.4	750.54	5.1	-17.2
2046	36 21.53	137 20.33	1048.	600.95	4.2	-36.0	2096	36 25.34	137 21.21	743.	657.11	13.9	-36.8
2047	36 21.68	137 51.31	568.	660.03	5.2	-72.0	2097	36 25.58	137 41.31	1305.0	500.98	30.5	-65.3
2048	36 21.71	137 59.71	766.	651.80	2.5	-43.8	2098	36 25.84	137 25.31	968.	618.79	10.1	-35.1
2049	36 21.77	137 56.10	519.	681.83	3.8	-61.5	2099	36 25.96	137 56.40	486.4	702.76	4.7	-52.1
2050	36 21.84	137 27.63	1031.	580.00	17.2	-48.5	2100	36 26.15	138 0.73	584.	703.51	3.0	-34.1

NO.	TYPE	LAT.	LONG.	ALT.	G-VALUE	T.C.	B.A.	NO.	TYPE	LAT.	LONG.	ALT.	G-VALUE	T.C.	B.A.
				(M)	(MGAL)	(MGAL)	(MGAL)					(M)	(MGAL)	(MGAL)	(MGAL)
2101	9	36 26.20	137 26.66	1216.	979571.10	7.6	-36.5	2161	4	36 30.95	137 38.33	1432.7	494.94	17.8	-66.3
2102	2	36 26.27	138 4.43	670.	703.32	4.9	-15.4	2162	4	36 31.15	137 51.97	749.5	645.94	4.0	-65.1
2103	1	36 26.34	137 59.27	597.5	750.85	3.7	-30.8	2163	3	36 31.28	138 5.64	387.1	768.28	3.9	-14.7
2104	1	36 26.36	137 59.27	597.5	750.85	3.7	-30.8	2164	3	36 31.41	137 11.27	1013.2	604.36	18.4	-40.6
2105	1	36 26.52	137 26.11	1152.5	585.57	8.0	-35.1	2165	3	36 31.63	137 11.27	1013.2	604.36	18.4	-40.6
2106	1	36 26.59	137 50.74	660.	658.92	4.5	-62.7	2166	3	36 31.65	137 47.92	893.	628.16	17.1	-40.2
2107	1	36 26.60	138 2.24	609.7	707.42	3.1	-25.4	2167	3	36 31.68	137 55.13	728.4	665.24	5.2	-49.4
2108	1	36 26.68	137 25.88	1307.	560.58	5.4	-31.9	2168	4	36 31.71	138 0.53	797.	657.85	3.6	-45.0
2109	1	36 26.70	137 25.88	1307.	560.58	5.4	-31.9	2169	4	36 31.78	137 38.60	1452.7	495.03	13.2	-68.0
2110	1	36 26.70	137 25.88	1307.	560.58	5.4	-31.9	2170	4	36 32.04	137 52.62	898.	619.27	2.4	-65.2
2111	1	36 26.71	137 25.32	1091.	598.38	8.8	-33.7	2171	3	36 32.18	137 26.54	649.	694.32	23.5	-18.3
2112	1	36 26.73	137 26.46	1089.	598.81	7.8	-34.6	2172	3	36 32.29	137 47.14	956.	614.11	11.8	-49.8
2113	1	36 26.73	137 26.46	1089.	598.81	7.8	-34.6	2173	3	36 32.58	138 2.61	732.	677.95	2.6	-36.0
2114	1	36 26.83	137 51.08	1865.2	610.61	20.1	-74.0	2174	4	36 32.79	137 59.13	1467.9	495.37	14.5	-48.2
2115	2	36 26.86	137 24.26	1246.	569.02	7.0	-34.2	2175	3	36 32.93	137 39.43	1467.9	495.37	14.5	-48.2
2116	1	36 27.01	138 0.94	782.	677.27	2.5	-34.7	2176	3	36 32.89	137 45.83	1077.	578.16	20.8	-53.6
2117	9	36 27.06	137 25.51	1091.	601.12	6.7	-33.5	2177	3	36 32.96	138 3.67	592.	712.20	4.0	-32.6
2118	1	36 27.06	137 25.51	1091.	601.12	6.7	-33.5	2178	3	36 32.99	137 25.32	560.	720.30	18.6	-16.2
2119	1	36 27.39	137 54.78	1168.	708.42	5.7	-47.0	2179	8	36 33.48	137 42.99	1551.2	473.54	21.9	-63.3
2120	9	36 27.42	137 26.83	1089.	598.89	7.3	-36.0	2180	3	36 33.51	137 44.40	1301.	550.94	22.8	-55.1
2121	1	36 27.48	137 58.04	489.	709.46	5.2	-46.5	2181	4	36 33.59	137 24.02	443.	752.50	10.8	-15.9
2122	1	36 27.54	137 41.41	1283.0	513.30	27.6	-63.0	2182	4	36 33.65	137 39.63	1454.0	496.14	18.7	-63.9
2123	1	36 27.54	137 41.41	1283.0	513.30	27.6	-63.0	2183	4	36 33.77	137 59.11	1390.0	495.83	21.8	-74.0
2124	1	36 27.52	137 45.92	716.	650.18	5.7	-60.6	2184	4	36 33.80	137 59.11	1390.0	495.83	21.8	-74.0
2125	9	36 27.70	137 25.93	1090.	601.70	8.1	-32.7	2185	3	36 33.80	137 59.11	1390.0	495.83	21.8	-74.0
2126	1	36 27.76	137 47.72	993.	595.62	10.0	-56.2	2186	3	36 33.84	137 33.65	1941.1	428.46	12.9	-63.9
2127	1	36 27.83	138 10.22	390.	765.75	5.7	-7.8	2187	3	36 33.87	138 0.54	431.3	740.48	31.8	-37.6
2128	1	36 27.84	137 54.49	728.	647.19	5.2	-62.0	2188	3	36 33.91	137 32.43	1754.1	465.59	11.2	-42.7
2129	1	36 28.01	137 27.23	1089.	604.41	8.5	-55.0	2189	3	36 33.99	137 38.08	2315.7	324.24	28.1	-54.9
2130	9	36 28.18	137 27.23	1089.	599.75	8.5	-55.0	2190	4	36 33.99	137 40.16	1432.0	497.86	22.0	-63.7
2131	9	36 28.20	137 48.60	905.	613.26	10.3	-56.3	2191	3	36 34.02	137 31.66	1612.	497.07	13.6	-37.0
2132	1	36 28.32	137 26.34	1089.	601.21	8.2	-34.2	2192	8	36 34.07	137 40.73	1555.5	471.45	25.7	-61.9
2133	1	36 28.32	137 26.34	1089.	601.21	8.2	-34.2	2193	3	36 34.16	137 30.41	1418.6	541.05	15.5	-29.9
2134	1	36 28.32	137 26.34	1089.	601.21	8.2	-34.2	2194	3	36 34.23	138 6.23	604.	709.34	2.9	-36.0
2135	5	36 28.56	137 41.20	1130.2	544.66	31.4	-61.8	2195	3	36 34.37	137 49.53	1382.8	491.73	31.4	-70.6
2136	9	36 28.93	137 27.55	1089.	599.93	11.9	-32.6	2196	3	36 34.57	137 35.37	2410.	317.57	16.7	-34.7
2137	9	36 28.99	137 26.89	1097.	600.84	9.1	-33.0	2197	3	36 34.43	137 35.37	2410.	317.57	16.7	-34.7
2138	1	36 29.07	137 54.63	756.	647.96	4.9	-57.8	2198	3	36 34.46	137 23.18	369.	776.95	7.5	-10.6
2139	1	36 29.14	137 29.43	1302.	532.45	12.8	-37.2	2199	3	36 34.47	137 26.16	588.	734.87	8.9	-13.9
2140	1	36 29.21	138 4.14	966.	659.37	4.3	-23.6	2200	8	36 34.52	137 40.85	1584.4	491.33	35.5	-67.0
2141	9	36 29.27	137 27.25	1089.	602.83	10.5	-31.5	2201	3	36 34.53	137 29.82	1277.7	979.68	9.3	-23.0
2142	5	36 29.30	137 44.63	971.6	590.18	20.7	-57.4	2202	3	36 34.53	137 34.14	2093.5	393.38	14.9	-44.1
2143	1	36 29.30	137 52.84	791.	632.74	3.4	-68.0	2203	3	36 34.66	137 34.99	2309.3	342.64	16.9	-49.9
2144	1	36 29.31	137 49.12	937.	621.72	2.7	-57.7	2204	3	36 34.72	137 28.56	1092.6	618.48	12.4	-21.2
2145	1	36 29.31	137 49.12	937.	621.72	2.7	-57.7	2205	3	36 34.72	137 28.56	1092.6	618.48	12.4	-21.2
2146	1	36 29.43	137 57.44	494.	713.94	5.0	-45.1	2206	3	36 34.87	137 34.16	2133.8	582.42	17.1	-17.3
2147	5	36 29.46	137 43.59	1063.0	565.84	28.2	-56.3	2207	3	36 34.87	137 34.16	2133.8	582.42	17.1	-17.3
2148	1	36 29.48	138 9.21	373.6	773.92	5.1	-7.9	2208	8	36 34.92	137 41.59	1337.3	501.99	27.5	-64.4
2149	2	36 29.63	137 30.21	1302.	545.91	14.9	-42.2	2209	8	36 34.92	137 41.59	1337.3	501.99	27.5	-64.4
2150	1	36 29.73	138 5.66	718.8	696.97	6.8	-15.2	2210	8	36 35.37	137 42.36	1338.5	514.06	30.0	-61.6
2151	1	36 29.80	137 27.25	1054.	979.68	11.9	-31.9	2211	8	36 37.25	137 42.08	1332.0	521.90	25.8	-60.4
2152	1	36 29.99	137 55.40	630.	682.56	4.5	-49.9	2212	8	36 38.32	137 41.87	1335.0	530.59	27.8	-60.4
2153	1	36 30.13	137 30.26	1253.2	559.72	13.2	-40.6	2213	8	36 38.50	137 41.87	1335.0	530.59	27.8	-60.4
2154	1	36 30.31	137 59.53	817.	650.86	3.9	-45.7	2214	8	36 38.83	137 41.14	864.	619.16	28.4	-55.8
2155	4	36 30.53	137 50.33	759.	650.75	3.7	-57.8								
2156	1	36 30.54	137 48.37	1456.7	487.56	18.9	-92.2								
2157	1	36 30.73	137 48.37	1456.7	487.56	18.9	-92.2								
2158	1	36 30.73	137 48.37	1456.7	487.56	18.9	-92.2								
2159	1	36 30.73	138 0.23	883.	642.72	3.6	-41.7								
2160	1	36 30.77	137 30.57	1184.	571.44	17.6	-39.2								