# IX. Gravimetric Survey in the Mizuho Plateau-West Enderby Land Area, East Antarctica, 1969 - 1971

Masaru YOSHIDA* and Aiichiro YOSHIMURA**

## 1. Introduction

Measurements of gravity were carried out in the Mizuho Plateau-West Enderby Land area by the oversnow traverses of JARE 10 and 11, in 1969 - 1970 and 1970 - 1971 respectively. Yoshida made the measurements along the route Syowa Station - S240 - Yamato Mountains - S170 - Syowa Station, and Yoshimura along the route Syowa Station - S122 - Mizuho Camp - Y200 - Sandercock Nunataks - Mizuho Camp - S169 - Syowa Station, as shown in Fig. A attached to the end of this volume (Shimizu et al., 1972). The measurements were basically made at every 2 km in Mizuho Plateau and 5 km in West Enderby Land along these traverse routes. 290 new gravity stations were set up in Mizuho Plateau and 349 in West Enderby Land in addition to 200 previous stations of Route S, which is approximately along longitude 43°E (Tables IX-1 and IX-2). A LaCoste and Romberg Model G gravity meter No. G 183 was used in both traverses. The gravity values were calculated from observed values in the field on the basis of the gravity value determined at the Pendulum Gravity Station in Syowa Station.

## 2. Method of Measurement

A gravity meter with its proper case was kept in a shockproof box fixed in a KD60 type oversnow vehicle (Hosoya et al., 1971). The measurement was made by setting the leveling disc directly on the snow surface just beside the marking flag of a station. The time (G.M.T.) of measurement was determined with an accuracy of 1 min (record of the measurement time is not described in the present article). At each station, measurements of gravity were made twice in succession, whereby

* Department of Geosciences, Osaka City University, Sumiyoshi-ku, Osaka.
**Geographical Survey Institute, Ministry of Construction, Azabu Iikura-cho, Minato-ku, Tokyo.

each measurement took 2 min with 0.06 mgal as a permitted limit of difference between the two readings. The linearity of the instrumental drift* was considered to be normal judging from the data of both JARE 9 (Yanai and Kakinuma, 1971) and JARE 10-11: the instrument used for the measurements, the procedure of maintenance of the instrument and the method of measurements were the same in all the three traverses.

## 3. Calculation

The following gravity value at Syowa Station which was determined by a pendulum gravity meter (Harada et al.,1963) was used as the base value:

$$g(\text{Syowa}) = 982.5394 \pm 0.0005 \text{ gals}$$
$$\varphi = 69^\circ\ 00\ .3'\text{S}$$
$$\lambda = 39^\circ\ 35\ .4'\text{E}$$
$$h = 14.0 \text{ m (above the mean sea level)}$$

The drift of the instrument was distributed over the traverse route according to the time elapsed. Corrections for earth tides and topographic conditions were not made. $\gamma_o$, $g_o$, $\triangle g_o$, $g_o''$, and $\triangle g_o''$ were calculated by the following equations:

$$\gamma_o = 978.049\ (1+0.0052884 \sin^2\varphi - 0.0000059 \sin^2 2\varphi \quad (1)$$
$$g_o = g + 0.3086\ h \quad (2)$$
$$\triangle g_o = g_o - \gamma_o \quad (3)$$
$$g_o'' = g_o - 0.1119\ h + 0.0742\ I \quad (4)$$
$$\triangle g_o'' = g_o'' - \gamma_o \quad (5)$$

where $\gamma_o$ is the standard gravity value in gal, $\varphi$ the latitude, g the observed gravity value in mgal at the height of h meters above sea level, $g_o$ the gravity value in mgal reduced to sea level by the application of free air reduction, $\triangle g_o$ the free air anomaly in mgal, $g_o''$ the value in mgal obtained by the application of the Bouguer reduction, assuming the density of ice and of the bed rock as 0.9 g/cm$^3$ and 2.67 g/cm$^3$ respectively, $\triangle g_o''$ the Bouguer anomaly in mgal, and I the thickness of the ice sheet in meters.

* The total drifts during the traverses were 1.65 mgals per 90 days in Mizuho Plateau and 0.78 mgals per 83 days in West Enderby Land.

## 4. Accuracy

### 4.1. Value g

The following errors affect the accuracy of the value g :

1) An error less than 0.06 mgal in reading dial, namely a difference of 2 successive readings, was allowed as mentioned previously. This error was actually as small as 0.024 mgal on the average.

2) An error due to instrumental drift was expected less than 0.5 mgal from the characteristic data of the instrument as regards the linearity of the drift.

3) An error caused by the earth tide: No correction was made on the effect by the earth tide, because a previous report (Nakagawa et al., 1969) and field observations on the earth tide at Syowa Station and in Mizuho Plateau in 1969 and 1970 made by Yoshida, one of the present authors, showed that this error would be less than 0.2 mgal.

Thus, the obtained value of g may involve an error less than 0.76 mgal even when these errors are summed up (Ōura,1965).

### 4.2. Value $r_o$

The accuracy in determining the geodetic position of a gravity station is a factor controlling the accuracy of the value $r_o$. An error in estimating the geodetic position of a station 50 km away from an astronomic station by navigation records may be expected less than 2 km, as shown by experiments made in West Enderby Land in 1970 and 1971 by Yoshimura, one of the present authors. An error of 2 km in the geodetic position of a station along a longitude in the surveyed area produces an error of 1 mgal in the value $r_o$.

### 4.3. Values $g_o$ and $\triangle g_o$

The accuracy of the altitude is a controlling factor for the accuracy of the value $g_o$. Assuming that the error involved in the barometric altitude is 10%, the error involved in the value $g_o$ of a station 2500 m above sea level would be 77.81 mgal by Eq.(2); the surface altitude of the ice sheet in the Mizuho Plateau-West Enderby Land area ranged from 1800 to 2800 m above sea level. However, an error involved in the difference of the $g_o$ values at two neighboring stations with an altitude difference of 50 m does not exceed 3.06 mgal from Eq.(2), if the accuracy of the altitude difference is also 10%; an actual altitude difference of two neighboring stations was generally less than 50 m in the sur-

veyed area. The error of values $\Delta g_o$ does not exceed the sum of the errors of the values $\gamma_o$ and $g_o$.

4.4. Values $g_o''$ and $\Delta g_o''$

From Eqs. (2) and (4)

$$g_o'' = g + 0.1967\,h + 0.0742\,I \qquad (6)$$

is obtained. This equation gives the effect of errors in estimating the altitude and ice thickness of a station on the accuracy of value $g_o''$. Assuming the errors involved in the ice thickness obtained by the radio echo sounding and in the altitude by the barometric altimetry are 10% for each, the error involved in the value $g_o''$ is 64.78 mgal from Eq.(6) at a station 2500 m in altitude where the thickness of ice is 2000 m, which is the case representing a typical situation among those in the surveyed area. However, the error involved in the difference of the $g_o''$ values at two neighboring stations with a difference* of 50 m in altitude and 500 m in ice thickness does not exceed 6.21 mgal by Eq.(6), if the accuracies of the differences in altitude and ice thickness are 10% respectively.

The error of the value $\Delta g_o''$ does not exceed the sum of the errors of the values of $g_o''$ and $\gamma_o$. The topographic corrections were neglected because of simple and fairly even topographic features of the surface in almost all the areas surveyed.

## References


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* Generally speaking, a change of the surface elevation of the bed rock is much more abrupt than that of the ice sheet.

of the station, surface elevation and thickness of the ice sheet, and snow temperature at 10 m depth in the Mizuho Plateau-West Enderby Land area, East Antarctica, 1969 - 1971. JARE Data Rep., 17 (Glaciology), 12-37.

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Table IX- 1: Gravity values, and free air and Bouguer anomalies in Mizuho Plateau, 1969 - 1970.
Location, elevation, and ice thickness were referred to Shimizu et al., (1972)
g: observed value, $g_o$: gravity value reduced to sea level by free air reduction, $g_o''$: gravity value by Bouguer reduction (assuming the density of ice and bed rock as 0.9 g/cm$^3$ and 2.67 g/cm$^3$ respectively), $\gamma_o$: standard gravity value, $\triangle g_o$: free air anomaly, and $\triangle g_o''$: Bouguer anomaly.

| Station No. | Latitude | Longitude | Elevation (m) | Thickness of ice (m) | g (mgal) | $g_o$ (mgal) | $g_o''$ (mgal) | $\gamma_o$ (mgal) | $\triangle g_o$ (mgal) | $\triangle g_o''$ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 982 | 982 | 982 | 982 | | |
| Syowa | 69° 00. 3′ S | 39° 35. 4′E | 14 | 0 | 539. 4 | 543. 7 | 542. 2 | 554. 8 | −11. 0 | −12. 6 |
| F 0 | 69 02. 0 | 39 42. 2 | 26 | 0 | 534. 4 | 542. 4 | 539. 5 | 556. 5 | −14. 1 | −17. 0 |
| G 1′ | 69 01. 2 | 39 45. 5 | 173 | | 492. 8 | 546. 3 | | 555. 7 | − 9. 4 | |
| 3′ | 69 02. 5 | 39 49. 1 | 346 | | 439. 7 | 546. 3 | | 557. 0 | −10. 7 | |
| 5 | 69 02. 9 | 39 56. 5 | 433 | | 428. 5 | 562. 2 | | 557. 4 | 4. 8 | |
| 6′ | 69 02. 9 | 39 59. 8 | 537 | | 407. 7 | 573. 5 | | 557. 4 | 16. 2 | |
| S 16 | 69 01. 9 | 40 02. 8 | 553 | 470 | 406. 1 | 576. 7 | 549. 8 | 556. 4 | 20. 3 | − 6. 6 |
| 17 | 69 01. 9 | 40 04. 0 | 583 | 501 | 397. 9 | 577. 8 | 549. 8 | 556. 4 | 21. 5 | − 6. 6 |
| 18 | 69 01. 7 | 40 07. 0 | 609 | | 383. 2 | 571. 2 | | 556. 2 | 15. 0 | |
| 19 | 69 01. 5 | 40 10. 0 | 634 | 1.129 | 352. 4 | 548. 0 | 560. 9 | 556. 0 | − 8. 0 | + 4. 9 |
| 20 | 69 01. 5 | 40 12. 0 | 653 | | 350. 2 | 551. 7 | | 556. 0 | − 4. 3 | |
| 21 | 69 01. 6 | 40 15. 0 | 699 | 585 | 350. 4 | 566. 1 | 531. 3 | 556. 1 | 10. 0 | −24. 8 |
| 22 | 69 01. 7 | 40 18. 0 | 743 | 817 | 339. 0 | 568. 3 | 545. 8 | 556. 2 | 12. 1 | −10. 4 |
| 23 | 69 01. 8 | 40 21. 0 | 771 | 785 | 332. 4 | 570. 4 | 542. 3 | 556. 3 | 14. 1 | −10. 0 |
| 24 | 69 01. 9 | 40 24. 0 | 811 | 715 | 323. 2 | 573. 5 | 535. 7 | 556. 4 | 17. 1 | −20. 7 |
| 25 | 69 02. 2 | 40 27. 0 | 844 | 723 | 311. 8 | 572. 2 | 531. 4 | 556. 7 | 15. 6 | −25. 3 |
| 26 | 69 02. 3 | 40 29. 0 | 870 | | 304. 3 | 572. 7 | | 556. 8 | 16. 0 | |
| 27 | 69 02. 5 | 40 32. 0 | 893 | | 295. 0 | 570. 6 | | 557. 0 | 13. 6 | |
| 28 | 69 02. 7 | 40 35. 0 | 916 | 970 | 288. 0 | 570. 7 | 540. 2 | 557. 2 | 13. 5 | −17. 0 |
| 29 | 69 02. 8 | 40 38. 0 | 935 | | 283. 5 | 572. 1 | | 557. 3 | 14. 8 | |
| 30 | 69 03. 1 | 40 40. 0 | 961 | 929 | 274. 2 | 570. 8 | 532. 1 | 557. 6 | 13. 2 | −25. 5 |
| 31 | 69 03. 3 | 40 43. 0 | 981 | 966 | 265. 2 | 568. 0 | 529. 9 | 557. 8 | 10. 2 | −27. 9 |
| 32 | 69 03. 6 | 40 46. 0 | 994 | 1.134 | 259. 8 | 566. 5 | 539. 4 | 558. 1 | 8. 4 | −18. 7 |
| 33 | 69 03. 9 | 40 48. 0 | 1014 | | 254. 9 | 567. 8 | | 558. 4 | 9. 4 | |

| Station No. | Latitude | Longitude | Elevation (m) | Thickness of ice (m) | g (mgal) | $g_o$ (mgal) | $g_o''$ (mgal) | $r_o$ (mgal) | $\triangle g_o$ (mgal) | $\triangle g_o''$ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 982 | 982 | 982 | 982 | | |
| S 34 | 69° 04. 2′S | 40° 51. 0′E | 1030 | 1038 | 249. 1 | 566. 9 | 528. 7 | 558. 7 | 8. 2 | −30. 0 |
| 35 | 69 04. 4 | 40 54. 0 | 1046 | 1108 | 245. 6 | 568. 4 | 533. 6 | 558. 9 | 9. 5 | −25. 3 |
| 36 | 69 04. 8 | 40 56. 0 | 1064 | 1069 | 242. 6 | 571. 0 | 531. 2 | 559. 3 | 11. 7 | −28. 1 |
| 37 | 69 04. 8 | 40 59. 0 | 1074 | | 239. 8 | 571. 2 | | 559. 3 | 11. 9 | |
| 38 | 69 04. 9 | 41 02. 0 | 1088 | 1100 | 233. 2 | 568. 9 | 528. 8 | 559. 4 | 9. 5 | −30. 6 |
| 39 | 69 04. 8 | 41 05. 0 | 1099 | 1197 | 226. 4 | 565. 5 | 531. 4 | 559. 3 | 6. 2 | −27. 9 |
| 40 | 69 04. 7 | 41 07. 0 | 1112 | 1100 | 223. 7 | 566. 8 | 524. 0 | 559. 2 | 7. 6 | −35. 2 |
| 41 | 69 04. 6 | 41 10. 0 | 1124 | 1091 | 221. 0 | 567. 9 | 523. 1 | 559. 1 | 8. 8 | −36. 0 |
| 42 | 69 04. 6 | 41 13. 0 | 1138 | 1134 | 218. 2 | 569. 4 | 526. 2 | 559. 1 | 10. 3 | −32. 9 |
| 43 | 69 04. 5 | 41 15. 0 | 1148 | 1120 | 215. 3 | 569. 6 | 524. 3 | 559. 0 | 10. 6 | −34. 7 |
| 44 | 69 04. 3 | 41 18. 0 | 1164 | 1227 | 212. 3 | 571. 5 | 532. 2 | 558. 8 | 12. 7 | −26. 6 |
| 45 | 69 04. 4 | 41 21. 0 | 1179 | 1188 | 207. 2 | 571. 1 | 527. 2 | 558. 9 | 12. 2 | −31. 7 |
| 46 | 69 04. 5 | 41 24. 0 | 1188 | 1185 | 201. 9 | 568. 5 | 523. 5 | 559. 0 | 9. 5 | −35. 5 |
| 47 | 69 04. 3 | 41 26. 0 | 1184 | 1235 | 200. 0 | 565. 4 | 524. 5 | 558. 8 | 6. 6 | −34. 3 |
| 48 | 69 04. 2 | 41 29. 0 | 1200 | 1240 | 194. 5 | 564. 8 | 522. 6 | 558. 7 | 6. 2 | −36. 1 |
| 49 | 69 04. 2 | 41 32. 0 | 1208 | | 194. 4 | 567. 2 | | 558. 7 | 8. 5 | |
| 50 | 69 04. 2 | 41 35. 0 | 1215 | 1206 | 193. 8 | 568. 7 | 522. 3 | 558. 7 | 10. 0 | −36. 4 |
| 51 | 69 04. 1 | 41 37. 0 | 1217 | | 193. 2 | 568. 8 | | 558. 6 | 10. 2 | |
| 52 | 69 04. 1 | 41 40. 0 | 1227 | 1219 | 190. 1 | 568. 7 | 521. 8 | 558. 6 | 10. 1 | −36. 8 |
| 53 | 69 04. 0 | 41 43. 0 | 1233 | 1194 | 190. 2 | 570. 7 | 521. 3 | 558. 5 | 12. 2 | −37. 2 |
| 54 | 69 04. 1 | 41 46. 0 | 1259 | | 185. 0 | 573. 6 | | 558. 6 | 15. 0 | |
| 55 | 69 04. 2 | 41 48. 0 | 1271 | 1223 | 180. 2 | 572. 4 | 520. 9 | 558. 7 | 13. 7 | −37. 8 |
| 56 | 69 03. 7 | 41 51. 0 | 1274 | | 178. 3 | 571. 5 | | 558. 2 | 13. 3 | |
| 57 | 69 03. 8 | 41 54. 0 | 1276 | | 178. 0 | 571. 7 | | 558. 3 | 13. 4 | |

| Station No. | Latitude | Longitude | Elevation (m) | Thickness of ice (m) | g (mgal) | go (mgal) | go″ (mgal) | ro (mgal) | △go (mgal) | △go″ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 982 | 982 | | 982 | | |
| S 58 | 69° 04. 2′S | 41° 57. 0′E | 1287 | | 177. 0 | 574. 2 | | 558. 7 | 15. 5 | |
| 59 | 69 04. 4 | 41 59. 0 | 1307 | | 168. 0 | 571. 3 | | 558. 9 | 12. 4 | |
| 60 | 69 04. 6 | 42 02. 0 | 1332 | 1332 | 151. 9 | 563. 0 | 982 512. 7 | 559. 1 | 3. 9 | −46. 4 |
| 61 | 69 05. 0 | 42 04. 0 | 1335 | 1351 | 145. 7 | 557. 7 | 508. 5 | 559. 5 | − 1. 8 | −51. 0 |
| 62 | 69 05. 2 | 42 07. 0 | 1341 | 1440 | 141. 1 | 554. 9 | 511. 6 | 559. 7 | − 4. 8 | −48. 1 |
| 63 | 69 05. 3 | 42 09. 0 | 1348 | 1436 | 137. 5 | 553. 4 | 509. 2 | 559. 8 | − 6. 4 | −50. 6 |
| 64 | 69 05. 5 | 42 12. 0 | 1356 | | 135. 0 | 553. 4 | | 560. 0 | − 6. 6 | |
| 65 | 69 05. 8 | 42 15. 0 | 1362 | | 134. 8 | 555. 1 | | 560. 3 | − 5. 2 | |
| 66 | 69 05. 9 | 42 18. 0 | 1366 | | 136. 2 | 557. 7 | | 560. 4 | − 2. 7 | |
| 67 | 69 06. 6 | 42 21. 0 | 1363 | | 137. 9 | 558. 5 | | 561. 1 | − 2. 6 | |
| 68 | 69 06. 2 | 42 23. 0 | 1380 | 1286 | 131. 3 | 557. 2 | 498. 2 | 560. 7 | − 3. 5 | −62. 5 |
| 69 | 69 06. 4 | 42 26. 0 | 1381 | | 128. 9 | 555. 1 | | 560. 9 | − 5. 8 | |
| 70 | 69 06. 9 | 42 29. 0 | 1388 | 1419 | 124. 1 | 552. 4 | 502. 4 | 561. 4 | − 9. 0 | −59. 0 |
| 71 | 69 07. 9 | 42 29. 0 | 1403 | 1377 | 122. 7 | 555. 7 | 500. 9 | 562. 4 | − 6. 7 | −61. 5 |
| 72 | 69 09. 0 | 42 30. 0 | 1409 | | 123. 7 | 558. 6 | | 563. 5 | − 5. 0 | |
| 73 | 69 10. 0 | 42 30. 0 | 1419 | 1411 | 122. 4 | 560. 3 | 506. 2 | 564. 5 | − 4. 2 | −58. 3 |
| 74 | 69 11. 0 | 42 31. 0 | 1422 | 1411 | 122. 8 | 561. 6 | 507. 2 | 565. 5 | − 3. 9 | −58. 3 |
| 75 | 69 12. 1 | 42 32. 0 | 1435 | 1428 | 120. 6 | 563. 5 | 508. 9 | 566. 6 | − 3. 1 | −57. 7 |
| 76 | 69 13. 1 | 42 32. 0 | 1444 | 1377 | 118. 7 | 564. 4 | 504. 9 | 567. 6 | − 3. 3 | −62. 7 |
| 77 | 69 14. 2 | 42 33. 0 | 1451 | 1479 | 115. 8 | 563. 6 | 510. 9 | 568. 7 | − 5. 2 | −57. 8 |
| 78 | 69 15. 2 | 42 34. 0 | 1459 | 1445 | 115. 7 | 565. 9 | 509. 8 | 569. 7 | − 3. 8 | −59. 9 |
| 79 | 69 16. 2 | 42 34. 0 | 1468 | 1436 | 114. 4 | 567. 4 | 509. 7 | 570. 7 | − 3. 3 | −61. 0 |
| 80 | 69 17. 3 | 42 35. 0 | 1473 | 1522 | 114. 7 | 569. 3 | 517. 3 | 571. 8 | − 2. 6 | −54. 5 |
| 81 | 69 18. 4 | 42 36. 0 | 1476 | 1351 | 118. 0 | 573. 5 | 508. 5 | 572. 9 | 0. 5 | −64. 4 |

| Station No. | Latitude | Longitude | Elevation (m) | Thickness of ice (m) | g (mgal) | go (mgal) | go″ (mgal) | ro (mgal) | △go (mgal) | △go″ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 982 | 982 | | 982 | | |
| S 82 | 69° 19. 4′S | 42° 36. 0′E | 1489 | | 117. 4 | 576. 9 | | 573. 9 | 3. 0 | |
| | | | | | | | 982 | | | |
| 83 | 69 20. 5 | 42 37. 0 | 1499 | 1394 | 115. 2 | 577. 8 | 513. 5 | 575. 0 | 2. 8 | −61. 5 |
| 84 | 69 21. 5 | 42. 38. 0 | 1518 | 1334 | 105. 8 | 574. 3 | 503. 4 | 576. 0 | − 1. 7 | −72. 6 |
| 85 | 69 22. 5 | 42 38. 0 | 1522 | | 102. 6 | 572. 3 | | 577. 0 | − 4. 8 | |
| 86 | 69 23. 5 | 42. 39. 0 | 1526 | | 104. 7 | 575. 6 | | 578. 0 | − 2. 4 | |
| 87 | 69 24. 6 | 42 40. 0 | 1534 | | 107. 2 | 580. 6 | | 579. 1 | 1. 5 | |
| 88 | 69 25. 6 | 42 41. 0 | 1543 | | 108. 3 | 584. 5 | | 580. 1 | 4. 4 | |
| 89 | 69 26. 7 | 42 41. 0 | 1551 | | 107. 2 | 585. 9 | | 581. 2 | 4. 7 | |
| 90 | 69 27. 7 | 42 42. 0 | 1560 | 1436 | 107. 2 | 588. 6 | 520. 7 | 582. 2 | 6. 4 | −61. 5 |
| 91 | 69 28. 8 | 42 43. 0 | 1569 | | 102. 8 | 587. 0 | | 583. 3 | 3. 7 | |
| 92 | 69 29. 8 | 42 43. 0 | 1568 | | 103. 3 | 587. 2 | | 584. 3 | 2. 9 | |
| 93 | 69 30. 9 | 42 44. 0 | 1570 | | 111. 8 | 596. 3 | | 585. 4 | 10. 9 | |
| 94 | 69 31. 9 | 42 45. 0 | 1579 | 1460 | 117. 5 | 604. 8 | 536. 5 | 586. 4 | 18. 5 | −49. 9 |
| 95 | 69 32. 8 | 42 46. 0 | 1588 | 1436 | 121. 1 | 611. 2 | 540. 0 | 587. 2 | 23. 9 | −47. 2 |
| 96 | 69 33. 9 | 42 47. 0 | 1594 | 1385 | 125. 3 | 617. 2 | 541. 6 | 588. 3 | 28. 9 | −46. 7 |
| 97 | 69 34. 7 | 42 48. 0 | 1605 | 1360 | 126. 9 | 622. 2 | 543. 5 | 589. 1 | 33. 1 | −45. 6 |
| 98 | 69 36. 0 | 42 48. 0 | 1614 | 1296 | 125. 0 | 623. 1 | 538. 7 | 590. 4 | 32. 7 | −51. 7 |
| 99 | 69 37. 0 | 42 49. 0 | 1618 | | 118. 3 | 617. 6 | | 591. 4 | 26. 2 | |
| 100 | 69 38. 1 | 42 50. 0 | 1630 | 1368 | 110. 8 | 613. 8 | 532. 9 | 592. 5 | 21. 3 | −59. 6 |
| 101 | 69 39. 1 | 42 50. 0 | 1631 | | 110. 0 | 613. 3 | | 593. 4 | 19. 9 | |
| 102 | 69 40. 1 | 42 51. 0 | 1636 | | 110. 5 | 615. 4 | | 594. 4 | 20. 9 | |
| 103 | 69 41. 1 | 42 52. 0 | 1643 | | 109. 8 | 616. 8 | | 595. 4 | 21. 4 | |
| 104 | 69 42. 2 | 42 52. 0 | 1651 | | 112. 7 | 622. 2 | | 596. 5 | 25. 7 | |
| 105 | 69 43. 2 | 42 53. 0 | 1656 | | 115. 6 | 626. 6 | | 597. 5 | 29. 1 | |

| Station No. | Latitude | Longitude | Elevation (m) | Thickness of ice(m) | g (mgal) | go (mgal) | go″ (mgal) | ro (mgal) | △go (mgal) | △go″ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 982 | 982 | 982 | 982 | | |
| S106 | 69° 44. 3′S | 42° 54. 0′E | 1660 | 1305 | 121. 7 | 634. 0 | 545. 0 | 598. 6 | 35. 4 | −53. 6 |
| 107 | 69 45. 4 | 42 55. 0 | 1673 | 1325 | 119. 0 | 635. 3 | 546. 3 | 599. 6 | 35. 6 | −53. 3 |
| 108 | 69 46. 4 | 42 55. 0 | 1684 | 1488 | 109. 6 | 629. 3 | 551. 2 | 600. 6 | 28. 7 | −49. 4 |
| 109 | 69 47. 5 | 42 56. 0 | 1690 | | 110. 0 | 631. 6 | | 601. 7 | 29. 9 | |
| 110 | 69 48. 5 | 42 56. 0 | 1696 | 1224 | 123. 6 | 647. 0 | 548. 0 | 602. 7 | 44. 3 | −54. 7 |
| 111 | 69 49. 5 | 42 57. 0 | 1724 | 1103 | 126. 3 | 658. 3 | 547. 3 | 603. 7 | 54. 7 | −56. 4 |
| 112 | 69 50. 6 | 42 58. 0 | 1736 | 1284 | 122. 8 | 658. 5 | 559. 5 | 604. 7 | 53. 8 | −45. 2 |
| 113 | 69 51. 7 | 42 59. 0 | 1747 | 1334 | 118. 4 | 657. 5 | 561. 0 | 605. 8 | 51. 7 | −44. 8 |
| 114 | 69 52. 7 | 43. 00. 0 | 1754 | 1305 | 117. 4 | 658. 7 | 559. 2 | 606. 8 | 51. 9 | −47. 6 |
| 115 | 69 53. 8 | 43 01. 0 | 1758 | 1094 | 123. 2 | 665. 7 | 550. 1 | 607. 8 | 57. 8 | −57. 7 |
| 116 | 69 54. 8 | 43 02. 0 | 1763 | 1151 | 126. 0 | 670. 0 | 558. 1 | 608. 8 | 61. 2 | −50. 7 |
| 117 | 69 55. 9 | 43 03. 0 | 1774 | | 121. 7 | 669. 2 | | 609. 9 | 59. 3 | |
| 118 | 69 56. 9 | 43 03. 0 | 1816 | 1265 | 111. 8 | 672. 2 | 562. 9 | 610. 9 | 61. 3 | −48. 0 |
| 119 | 69 58. 0 | 43 04. 0 | 1833 | | 101. 0 | 666. 7 | | 611. 9 | 54. 8 | |
| 120 | 69 59. 0 | 43 04. 0 | 1845 | | 090. 0 | 659. 3 | | 612. 9 | 46. 4 | |
| 121 | 70 00. 1 | 43 05. 0 | 1850 | 1531 | 089. 9 | 660. 8 | 567. 4 | 614. 0 | 46. 8 | −46. 6 |
| 122 | 70 01. 1 | 43 06. 0 | 1853 | 1568 | 092. 3 | 664. 1 | 573. 1 | 615. 0 | 49. 2 | −41. 9 |
| 123 | 70 02. 1 | 43 06. 0 | 1859 | 1377 | 094. 5 | 668. 2 | 562. 3 | 615. 9 | 52. 3 | −53. 6 |
| 124 | 70 03. 2 | 43 06. 0 | 1865 | 1214 | 099. 1 | 674. 6 | 556. 0 | 617. 0 | 57. 6 | −61. 0 |
| 125 | 70 04. 2 | 43 07. 0 | 1876 | 1248 | 097. 7 | 676. 6 | 559. 4 | 618. 0 | 58. 7 | −58. 6 |
| 126 | 70 05. 2 | 43 07. 0 | 1883 | 1419 | 094. 7 | 675. 8 | 570. 3 | 618. 9 | 56. 8 | −48. 6 |
| 127 | 70 06. 3 | 43 06. 0 | 1886 | 1296 | 093. 6 | 675. 6 | 560. 8 | 620. 0 | 55. 7 | −59. 2 |
| 128 | 70 07. 3 | 43 06. 0 | 1887 | 1419 | 086. 6 | 668. 9 | 563. 1 | 621. 0 | 48. 0 | −57. 9 |
| 129 | 70 08. 4 | 43 06. 0 | 1900 | | 070. 5 | 656. 9 | | 622. 0 | 34. 9 | |

| Station No. | Latitude | Longitude | Elevation (m) | Thickness of ice(m) | g (mgal) | go (mgal) | go″ (mgal) | $r_o$ (mgal) | $\triangle g_o$ (mgal) | $\triangle g_o''$ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 982 | 982 | | 982 | | |
| S 130 | 70° 09. 5′S | 43° 06. 0′E | 1900 | | 069. 9 | 656. 2 | | 623. 1 | 33. 1 | |
| 131 | 70 10. 4 | 43 06. 0 | 1907 | 1548 | 071. 8 | 660. 2 | 982 561. 7 | 623. 9 | 36. 3 | −62. 2 |
| 132 | 70 11. 5 | 43 06. 0 | 1924 | 1556 | 063. 2 | 656. 9 | 557. 1 | 625. 0 | 31. 9 | −67. 9 |
| 133 | 70 12. 5 | 43 06. 0 | 1923 | | 058. 2 | 651. 6 | | 626. 0 | 25. 7 | |
| 134 | 70 13. 5 | 43 06. 0 | 1917 | | 059. 7 | 651. 3 | | 626. 9 | 24. 4 | |
| 135 | 70 14. 6 | 43 06. 0 | 1909 | | 065. 2 | 654. 3 | | 628. 0 | 26. 3 | |
| 136 | 70 15. 6 | 43 06. 0 | 1914 | | 065. 7 | 656. 4 | | 628. 9 | 27. 5 | |
| 137 | 70 16. 7 | 43 06. 0 | 1923 | | 062. 2 | 655. 7 | | 630. 0 | 25. 7 | |
| 138 | 70 17. 7 | 43 06. 0 | 1924 | | 059. 2 | 652. 9 | | 631. 0 | 21. 9 | |
| 139 | 70 18. 7 | 43 06. 0 | 1925 | | 056. 5 | 650. 6 | | 631. 9 | 18. 7 | |
| 140 | 70 19. 8 | 43 06. 0 | 1934 | | 049. 8 | 646. 7 | | 633. 0 | 13. 7 | |
| 141 | 70 20. 9 | 43 06. 0 | 1944 | | 045. 0 | 644. 9 | | 634. 0 | 10. 9 | |
| 142 | 70 21. 9 | 43 06. 0 | 1945 | 1881 | 044. 0 | 644. 2 | 566. 2 | 635. 0 | 9. 2 | −68. 8 |
| 143 | 70 22. 9 | 43 06. 0 | 1946 | | 040. 9 | 641. 5 | | 635. 9 | 5. 5 | |
| 144 | 70 24. 0 | 43 06. 0 | 1946 | | 070. 1 | 670. 7 | | 637. 0 | 33. 7 | |
| 145 | 70 25. 0 | 43 06. 0 | 1944 | | 037. 0 | 636. 9 | | 637. 9 | − 1. 0 | |
| 146 | 70 26. 1 | 43 06. 0 | 1950 | | 031. 5 | 633. 3 | | 639. 0 | − 5. 7 | |
| 147 | 70 27. 1 | 43 06. 0 | 1954 | | 025. 2 | 628. 2 | | 639. 9 | −11. 7 | |
| 148 | 70 28. 1 | 43 06. 0 | 1952 | | 029. 1 | 631. 5 | | 640. 9 | − 9. 4 | |
| 149 | 70 29. 2 | 43 06. 0 | 1953 | | 037. 9 | 640. 6 | | 641. 9 | − 1. 4 | |
| 150 | 70 30. 0 | 43 04. 0 | 1971 | | 036. 7 | 645. 0 | | 642. 7 | 2. 3 | |
| 151 | 70 31. 0 | 43 05. 0 | 1975 | | 034. 6 | 644. 1 | | 643. 6 | 0. 4 | |
| 152 | 70 31. 9 | 43 06. 0 | 1978 | | 034. 8 | 645. 2 | | 644. 5 | 0. 7 | |
| 153 | 70 32. 9 | 43 05. 0 | 1979 | | 035. 9 | 646. 6 | | 645. 4 | 1. 2 | |

| Station No. | Latitude | Longitude | Elevation (m) | Thickness of ice(m) | g (mgal) | $g_o$ (mgal) | $g_o''$ (mgal) | $r_o$ (mgal) | $\Delta g_o$ (mgal) | $\Delta g_o''$ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| S 154 | 70° 34. 0'S | 43° 05. 0'E | 1986 | | 982 034. 3 | 982 647. 1 | | 982 646. 5 | 0. 7 | |
| 155 | 70 35. 0 | 43 05. 0 | 1992 | | 034. 0 | 648. 7 | | 647. 4 | 1. 3 | |
| 156 | 70 36. 1 | 43 06. 0 | 1997 | | 034. 4 | 650. 7 | | 648. 5 | 2. 2 | |
| 157 | 70 37. 1 | 43 06. 0 | 2002 | 1855 | 032. 6 | 650. 5 | 982 564. 0 | 649. 4 | 1. 0 | −85. 4 |
| 158 | 70 38. 2 | 43 06. 0 | 2005 | 1881 | 026. 4 | 645. 1 | 560. 4 | 650. 5 | − 5. 3 | −90. 1 |
| 159 | 70 39. 2 | 43 06. 0 | 2006 | | 021. 4 | 640. 4 | | 651. 4 | −11. 0 | |
| 160 | 70 40. 2 | 43 06. 0 | 2008 | | 017. 1 | 636. 7 | | 652. 4 | −15. 6 | |
| 161 | 70 41. 2 | 43 06. 0 | 2012 | | 019. 1 | 640. 0 | | 653. 3 | −13. 3 | |
| 162 | 70 42. 3 | 43 06. 0 | 2020 | | 025. 6 | 649. 0 | | 654. 3 | − 5. 3 | |
| 163 | 70 43. 3 | 43 07. 0 | 2025 | | 029. 5 | 654. 4 | | 655. 3 | − 0. 8 | |
| 164 | 70 44. 3 | 43 07. 0 | 2034 | | 030. 2 | 657. 9 | | 656. 2 | 1. 7 | |
| 165 | 70 45. 3 | 43 07. 0 | 2035 | 2146 | 031. 2 | 659. 2 | 590. 7 | 657. 2 | 2. 0 | −66. 5 |
| 166 | 70 46. 4 | 43 07. 0 | 2027 | 2138 | 034. 1 | 659. 6 | 591. 4 | 658. 2 | 1. 5 | −66. 8 |
| 167 | 70 47. 4 | 43 07. 0 | 2027 | 2138 | 036. 1 | 661. 6 | 593. 4 | 659. 1 | 2. 5 | −65. 7 |
| 168 | 70 48. 4 | 43 07. 0 | 2026 | | 036. 5 | 661. 7 | | 660. 1 | 1. 7 | |
| 169 | 70 49. 4 | 43 07. 0 | 2035 | | 034. 0 | 662. 0 | | 661. 0 | 1. 0 | |
| 170 | 70 50. 5 | 43 07. 0 | 2034 | 1967 | 042. 2 | 669. 8 | 588. 2 | 662. 0 | 7. 8 | −73. 8 |
| 171 | 70 51. 1 | 43 05. 0 | 2026 | | 049. 2 | 674. 4 | | 662. 6 | 11. 8 | |
| 172 | 70 51. 6 | 43 02. 0 | 2040 | 1903 | 049. 5 | 678. 9 | 592. 1 | 663. 1 | 15. 9 | −71. 0 |
| 173 | 70 52. 2 | 43 00. 0 | 2034 | 1903 | 054. 8 | 682. 5 | 596. 1 | 663. 6 | 18. 9 | −67. 5 |
| 174 | 70 52. 8 | 42 57. 0 | 2018 | | 057. 8 | 680. 5 | | 664. 2 | 16. 3 | |
| 175 | 70 53. 8 | 42 56. 0 | 2036 | | 055. 2 | 683. 5 | | 665. 1 | 18. 4 | |
| 176 | 70 54. 8 | 42 56. 0 | 2063 | | 046. 7 | 683. 4 | | 666. 0 | 17. 3 | |
| 177 | 70 55. 8 | 42 56. 0 | 2064 | | 046. 0 | 682. 9 | | 667. 0 | 15. 9 | |

| Station No. | Latitude | Longitude | Elevation (m) | Thickness of ice(m) | g (mgal) | go (mgal) | go″ (mgal) | ro (mgal) | △go (mgal) | △go″ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| S178 | 70° 56. 8′S | 42° 56. 0′E | 2061 | | 982 052. 1 | 982 688. 1 | | 982 667. 9 | 20. 2 | |
| 179 | 70 57. 9 | 42 56. 0 | 2062 | | 056. 7 | 693. 1 | | 668. 9 | 24. 1 | |
| 180 | 70 58. 9 | 42 57. 0 | 2075 | | 058. 1 | 698. 5 | | 669. 9 | 28. 6 | |
| 181 | 70 59. 9 | 42 57. 0 | 2085 | | 059. 4 | 702. 8 | | 670. 8 | 32. 0 | |
| 182 | 71 00. 9 | 42 57. 0 | 2100 | | 056. 7 | 704. 7 | | 671. 7 | 33. 0 | |
| 183 | 71 01. 9 | 42 57. 0 | 2133 | | 044. 5 | 702. 7 | | 672. 6 | 30. 1 | |
| 184 | 71 03. 0 | 42 57. 0 | 2139 | | 037. 0 | 697. 1 | | 673. 7 | 23. 5 | |
| 185 | 71 04. 0 | 42 57. 0 | 2114 | 1903 | 044. 8 | 697. 2 | 982 601. 8 | 674. 6 | 22. 5 | −72. 8 |
| 186 | 71 05. 0 | 42 58. 0 | 2150 | | 037. 1 | 700. 6 | | 675. 5 | 25. 1 | |
| 187 | 71 06. 0 | 42 58. 0 | 2158 | | 035. 0 | 700. 9 | | 676. 4 | 24. 5 | |
| 188 | 71 07. 0 | 42 58. 0 | 2159 | | 038. 5 | 704. 8 | | 677. 4 | 27. 4 | |
| 189 | 71 08. 1 | 42 58. 0 | 2173 | | 037. 8 | 708. 4 | | 678. 4 | 30. 0 | |
| 190 | 71 09. 1 | 42 58. 0 | 2180 | 1989 | 037. 1 | 709. 9 | 613. 5 | 679. 3 | 30. 6 | −65. 8 |
| 191 | 71 10. 1 | 42 58. 0 | 2183 | 2009 | 036. 1 | 709. 8 | 614. 5 | 680. 2 | 29. 5 | −65. 7 |
| 192 | 71 11. 2 | 42 58. 0 | 2195 | | 032. 2 | 709. 5 | | 681. 3 | 28. 3 | |
| 193 | 71 12. 2 | 42 59. 0 | 2207 | | 029. 3 | 710. 4 | | 682. 2 | 28. 2 | |
| 194 | 71 13. 2 | 42 59. 0 | 2211 | | 028. 0 | 710. 3 | | 683. 1 | 27. 2 | |
| 195 | 71 14. 2 | 42 59. 0 | 2208 | | 030. 4 | 711. 8 | | 684. 0 | 27. 7 | |
| 196 | 71 15. 3 | 42 59. 0 | 2217 | | 029. 9 | 714. 1 | | 685. 0 | 29. 1 | |
| 197 | 71 16. 3 | 43 00. 0 | 2240 | | 022. 7 | 714. 0 | | 686. 0 | 28. 0 | |
| 198 | 71 17. 3 | 43 00. 0 | 2251 | | 017. 6 | 712. 3 | | 686. 9 | 25. 4 | |
| 199 | 71 18. 3 | 43 00. 0 | 2257 | | 013. 6 | 710. 2 | | 687. 8 | 22. 4 | |
| 200 | 71 19. 4 | 43 00. 0 | 2261 | | 010. 4 | 708. 2 | | 688. 8 | 19. 4 | |
| 201 | 71 20. 4 | 43 00. 0 | 2260 | | 010. 9 | 708. 3 | | 689. 7 | 18. 6 | |

| Station No. | Latitude | Longitude | Elevation (m) | Thickness of ice(m) | g (mgal) | go (mgal) | go″ (mgal) | ro (mgal) | △go (mgal) | △go″ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| S 202 | 71 21. 4′S | 43 00. 0′E | 2261 | | 982 013. 8 | 982 711. 6 | | 982 690. 6 | 20. 9 | |
| 203 | 71 22. 4 | 43 01. 0 | 2274 | | 012. 1 | 713. 9 | | 691. 5 | 22. 3 | |
| 204 | 71 23. 5 | 43 01. 0 | 2294 | | 007. 4 | 715. 4 | | 692. 5 | 22. 8 | |
| 205 | 71 24. 5 | 43 01. 0 | 2303 | | 004. 3 | 715. 0 | | 693. 4 | 21. 5 | |
| 206 | 71 25. 5 | 43 01. 0 | 2310 | | 000. 9 | 713. 7 | | 694. 4 | 19. 4 | |
| 207 | 71 26. 5 | 43 02. 0 | 2312 | | 981 998. 8 | 712. 3 | | 695. 3 | 17. 0 | |
| 208 | 71 27. 5 | 43 02. 0 | 2315 | | 982 001. 0 | 715. 4 | | 696. 2 | 19. 2 | |
| 209 | 71 28. 5 | 43 02. 0 | 2317 | | 003. 1 | 718. 1 | | 697. 1 | 21. 0 | |
| 210 | 71 29. 6 | 43 03. 0 | 2332 | | 001. 9 | 721. 5 | | 698. 1 | 23. 4 | |
| 211 | 71 30. 6 | 43 03. 0 | 2342 | | 000. 4 | 723. 1 | | 699. 0 | 24. 1 | |
| 212 | 71 31. 6 | 43 03. 0 | 2346 | | 001. 0 | 725. 0 | | 699. 9 | 25. 0 | |
| 213 | 71 32. 6 | 43 03. 0 | 2356 | | 981 999. 5 | 726. 5 | | 700. 8 | 25. 7 | |
| 214 | 71 33. 7 | 43 03. 0 | 2369 | | 995. 9 | 727. 0 | | 701. 8 | 25. 2 | |
| 215 | 71 34. 7 | 43 04. 0 | 2374 | | 994. 6 | 727. 2 | | 702. 7 | 24. 5 | |
| 216 | 71 35. 7 | 43 04. 0 | 2377 | | 995. 2 | 728. 8 | | 703. 6 | 25. 1 | |
| 217 | 71 36. 7 | 43 04. 0 | 2388 | | 993. 4 | 730. 3 | | 704. 5 | 25. 8 | |
| 218 | 71 37. 7 | 43 04. 0 | 2401 | | 991. 2 | 732. 1 | | 705. 4 | 26. 7 | |
| 219 | 71 38. 7 | 43 04. 0 | 2403 | | 991. 3 | 732. 9 | | 706. 3 | 26. 6 | |
| 220 | 71 39. 7 | 43 04. 0 | 2410 | | 993. 9 | 737. 6 | | 707. 2 | 30. 3 | |
| 221 | 71 40. 8 | 43 05. 0 | 2422 | | 992. 4 | 739. 9 | | 708. 2 | 31. 6 | |
| 222 | 71 41. 8 | 43 05. 0 | 2433 | | 989. 8 | 740. 7 | | 709. 1 | 31. 5 | |
| 223 | 71 42. 8 | 43 05. 0 | 2443 | | 987. 7 | 741. 6 | | 710. 0 | 31. 6 | |
| 224 | 71 43. 8 | 43 05. 0 | 2453 | | 986. 1 | 743. 1 | | 710. 9 | 32. 2 | |
| 225 | 71 44. 8 | 43 05. 0 | 2462 | | 984. 1 | 743. 8 | | 711. 8 | 32. 0 | |

| Station No. | Latitude | Longitude | Elevation (m) | Thickness of ice(m) | g (mgal) | go (mgal) | go″ (mgal) | ro (mgal) | △go (mgal) | △go″ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 981 | 982 | | 982 | | |
| S226 | 71° 45. 8′S | 43° 06. 0′E | 2468 | | 985. 2 | 746. 8 | | 712. 7 | 34. 1 | |
| 227 | 71 46. 8 | 43 06. 0 | 2473 | | 986. 4 | 749. 6 | | 713. 6 | 36. 0 | |
| 228 | 71 47. 8 | 43 06. 0 | 2485 | | 985. 5 | 752. 4 | | 714. 5 | 37. 9 | |
| 229 | 71 48. 9 | 43 06. 0 | 2494 | | 983. 6 | 753. 2 | | 715. 5 | 37. 7 | |
| 230 | 71 49. 9 | 43 06. 0 | 2506 | | 980. 4 | 753. 8 | | 716. 4 | 37. 4 | |
| 231 | 71 50. 9 | 43 07. 0 | 2511 | | 979. 7 | 754. 6 | | 717. 3 | 37. 3 | |
| 232 | 71 51. 9 | 43 03. 0 | 2515 | | 980. 8 | 756. 9 | | 718. 2 | 38. 7 | |
| 233 | 71 53. 0 | 43 07. 0 | 2522 | | 981. 0 | 759. 3 | | 719. 2 | 40. 2 | |
| 234 | 71 54. 0 | 43 08. 0 | 2528 | | 982. 9 | 763. 0 | | 720. 1 | 43. 0 | |
| 235 | 71 55. 0 | 43 08. 0 | 2534 | | 983. 8 | 765. 8 | | 721. 0 | 44. 9 | |
| 236 | 71 56. 0 | 43 08. 0 | 2550 | | 982. 2 | 769. 1 | | 721. 8 | 47. 3 | |
| 237 | 71 57. 0 | 43 08. 0 | 2567 | | 977. 0 | 769. 2 | | 722. 7 | 46. 5 | |
| 238 | 71 58. 1 | 43 08. 0 | 2574 | | 975. 0 | 769. 3 | | 723. 7 | 45. 6 | |
| 239 | 71 59. 1 | 43 08. 0 | 2580 | | 974. 4 | 770. 6 | | 724. 6 | 45. 9 | |
| 240 | 72 00. 1 | 43 09. 0 | 2591 | | 971. 0 | 770. 5 | | 725. 5 | 45. 0 | |
| A163 | 72 01. 5 | 43 08. 0 | 2604 | | 972. 4 | 776. 0 | | 726. 7 | 49. 3 | |
| 162 | 72 00. 2 | 43 07. 0 | 2585 | | 977. 4 | 775. 1 | | 725. 6 | 49. 5 | |
| 161 | 72 01. 5 | 43 04. 0 | 2599 | | 979. 0 | 781. 0 | | 726. 7 | 54. 3 | |
| 159 | 72 01. 5 | 43 01. 0 | 2586 | | 985. 6 | 783. 7 | | 726. 7 | 56. 9 | |
| 157 | 72 01. 5 | 42 55. 0 | 2568 | | 990. 0 | 782. 5 | | 726. 7 | 55. 7 | |
| 155 | 72 01. 4 | 42 50. 0 | 2573 | | 985. 2 | 779. 2 | | 726. 6 | 52. 6 | |
| 154 | 72 00. 8 | 42 47. 0 | 2561 | | 982. 7 | 773. 0 | | 726. 1 | 46. 9 | |
| 153 | 71 59. 1 | 42 48. 0 | 2533 | 1291 | 989. 3 | 771. 0 | 982 583. 4 | 724. 6 | 46. 4 | −141. 6 |
| 150 | 71 59. 5 | 42 41. 0 | 2549 | | 980. 3 | 766. 9 | | 725. 0 | 41. 9 | |

| Station No. | Latitude | Longitude | Elevation (m) | Thickness of ice(m) | g (mgal) | go (mgal) | go″ (mgal) | $r_0$ (mgal) | △go (mgal) | △go″ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| A 147 | 71° 58. 1′S | 42° 37. 0′E | 2536 | | 981 986. 8 | 982 769. 4 | | 982 723. 7 | 45. 7 | |
| 146 | 71 58. 9 | 42 34. 0 | 2545 | | 988. 0 | 773. 4 | | 724. 4 | 48. 9 | |
| 144 | 71 58. 9 | 42 29. 0 | 2536 | | 997. 1 | 779. 7 | | 724. 4 | 55. 2 | |
| 143 | 71 57. 8 | 42 24. 0 | 2491 | | 982 007. 7 | 776. 4 | | 723. 4 | 53. 0 | |
| 142 | 71 59. 3 | 42 26. 0 | 2534 | | 981 999. 7 | 781. 7 | | 724. 8 | 56. 9 | |
| 140 | 71 59. 9 | 42 21. 0 | 2520 | | 982 004. 5 | 782. 2 | | 725. 3 | 56. 8 | |
| 138 | 72 00. 5 | 42 15. 0 | 2499 | | 009. 0 | 780. 2 | | 725. 8 | 54. 4 | |
| 136 | 72 00. 3 | 42 13. 0 | 2509 | | 002. 4 | 776. 7 | | 725. 7 | 51. 0 | |
| 135 | 71 59. 8 | 42 11. 0 | 2508 | | 981 998. 0 | 772. 0 | | 725. 2 | 46. 7 | |
| 134 | 72 00. 5 | 42 08. 0 | 2510 | | 999. 6 | 774. 2 | | 725. 8 | 48. 3 | |
| 132 | 72 00. 8 | 42 03. 0 | 2518 | | 996. 4 | 773. 5 | | 726. 1 | 47. 3 | |
| 130 | 72 00. 9 | 41 56. 9 | 2527 | | 993. 6 | 773. 4 | | 726. 2 | 47. 2 | |
| 128 | 72 00. 9 | 41 50. 0 | 2533 | | 995. 3 | 777. 0 | | 726. 2 | 50. 8 | |
| 127 | 71 59. 9 | 41 47. 0 | 2535 | | 982 003. 8 | 786. 1 | | 725. 3 | 60. 7 | |
| 126 | 72 01. 1 | 41 47. 0 | 2545 | | 981 997. 9 | 783. 3 | | 726. 4 | 56. 9 | |
| 124 | 72 01. 4 | 41 40. 0 | 2533 | | 982 009. 8 | 791. 5 | | 726. 6 | 64. 8 | |
| 122 | 72 01. 6 | 41 36. 0 | 2544 | | 005. 8 | 790. 9 | | 726. 8 | 64. 0 | |
| 120 | 72 01. 5 | 41 33. 0 | 2537 | | 007. 3 | 790. 2 | | 726. 7 | 63. 5 | |
| 118 | 72 01. 0 | 41 26. 0 | 2528 | | 006. 0 | 786. 2 | | 726. 3 | 59. 9 | |
| 117 | 72 00. 0 | 41 27. 0 | 2511 | | 011. 6 | 786. 5 | | 725. 4 | 61. 1 | |
| 116 | 72 00. 8 | 41 23. 0 | 2521 | | 007. 6 | 785. 6 | | 726. 1 | 59. 5 | |
| 114 | 72 00. 4 | 41 21. 0 | 2511 | | 008. 1 | 783. 0 | | 725. 8 | 57. 2 | |
| 112 | 71 59. 9 | 41 15. 0 | 2504 | | 003. 6 | 776. 3 | | 725. 3 | 51. 0 | |
| 110 | 71 59. 9 | 41 12. 0 | 2499 | | 006. 3 | 777. 5 | | 725. 3 | 52. 2 | |

| Station No. | Latitude | Longitude | Elevation (m) | Thickness of ice(m) | g (mgal) | go (mgal) | go″ (mgal) | ro (mgal) | △go (mgal) | △go″ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 982 | 982 | | 982 | | |
| A 108 | 71° 59. 7′S | 41° 08. 0′E | 2492 | | 010. 2 | 779. 2 | | 725. 1 | 54. 0 | |
| 107 | 71 58. 7 | 41 04. 0 | 2481 | | 011. 8 | 777. 4 | | 724. 2 | 53. 1 | |
| 106 | 71 59. 4 | 41 01. 0 | 2483 | | 010. 0 | 776. 2 | | 724. 9 | 51. 4 | |
| 104 | 71 59. 3 | 40 54. 0 | 2482 | | 006. 3 | 772. 2 | | 724. 8 | 47. 4 | |
| 102 | 71 59. 3 | 40 49. 0 | 2477 | | 007. 9 | 772. 3 | | 724. 8 | 47. 5 | |
| 100 | 71 59. 3 | 40 43. 0 | 2479 | | 008. 2 | 773. 2 | | 724. 8 | 48. 4 | |
| 099 | 71 57. 9 | 40 39. 0 | 2463 | | 015. 9 | 776. 0 | | 723. 5 | 52. 5 | |
| 098 | 71 59. 2 | 40 35. 0 | 2475 | | 012. 4 | 776. 2 | | 724. 7 | 51. 4 | |
| 096 | 71 58. 5 | 40 27. 0 | 2462 | | 019. 0 | 778. 9 | | 724. 1 | 54. 7 | |
| 094 | 71 58. 2 | 40 20. 0 | 2457 | | 029. 4 | 787. 7 | | 723. 8 | 63. 8 | |
| 093 | 71 56. 4 | 40 15. 0 | 2417 | | 036. 6 | 782. 4 | | 722. 2 | 60. 2 | |
| 092 | 71 58. 3 | 40 16. 0 | 2460 | | 032. 3 | 791. 5 | | 723. 9 | 67. 6 | |
| 090 | 71 58. 3 | 40 08. 0 | 2446 | | 028. 3 | 783. 1 | | 723. 9 | 59. 2 | |
| 089 | 71 56. 6 | 40 03. 0 | 2427 | | 026. 5 | 775. 5 | | 722. 4 | 53. 1 | |
| 087 | 71 56. 7 | 39 57. 0 | 2435 | | 026. 6 | 778. 1 | | 722. 5 | 55. 6 | |
| 086 | 71 58. 2 | 39 54. 0 | 2450 | | 023. 5 | 779. 5 | | 723. 8 | 55. 7 | |
| 084 | 71 58. 0 | 39 48. 0 | 2448 | | 025. 0 | 780. 4 | | 723. 6 | 56. 8 | |
| 082 | 71 57. 5 | 39 41. 0 | 2445 | | 026. 6 | 781. 2 | | 723. 2 | 58. 0 | |
| 080 | 71 57. 1 | 39 37. 0 | 2440 | | 025. 5 | 778. 5 | | 722. 8 | 55. 7 | |
| 078 | 71 56. 9 | 39 32. 0 | 2433 | | 024. 6 | 775. 4 | | 722. 6 | 52. 7 | |
| 076 | 71 56. 8 | 39 28. 0 | 2426 | | 026. 6 | 775. 3 | | 722. 6 | 52. 7 | |
| 075 | 71 55. 3 | 39 24. 0 | 2412 | | 027. 6 | 772. 0 | | 721. 2 | 50. 7 | |
| 074 | 71 56. 4 | 39 21. 0 | 2421 | | 027. 3 | 774. 4 | | 722. 2 | 52. 2 | |
| 072 | 71 56. 4 | 39 17. 0 | 2430 | | 026. 2 | 776. 1 | | 722. 2 | 53. 9 | |

| Station No. | Latitude | Longitude | Elevation (m) | Thickness of ice(m) | g (mgal) | go (mgal) | $g_o''$ (mgal) | $r_o$ (mgal) | $\triangle g_o$ (mgal) | $\triangle g_o''$ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 982 | 982 | | 982 | | |
| A 070 | 71° 56. 4′S | 39° 13. 0′E | 2431 | | 029. 5 | 779. 7 | | 722. 2 | 57. 5 | |
| 068 | 71 55. 6 | 39 06. 0 | 2422 | | 037. 0 | 784. 4 | | 721. 5 | 62. 9 | |
| 066 | 71 55. 6 | 39 01. 0 | 2423 | | 042. 2 | 789. 9 | | 721. 5 | 68. 4 | |
| 065 | 71 54. 3 | 38 57. 0 | 2384 | | 056. 0 | 791. 7 | | 720. 3 | 71. 3 | |
| 064 | 71 55. 6 | 38 52. 0 | 2408 | | 052. 2 | 795. 3 | | 721. 5 | 73. 8 | |
| 062 | 71 55. 4 | 38 47. 0 | 2406 | | 053. 0 | 795. 5 | | 721. 3 | 74. 2 | |
| 060 | 71 54. 9 | 38 39. 0 | 2404 | | 044. 8 | 786. 7 | | 720. 9 | 65. 9 | |
| 058 | 71 55. 3 | 38 30. 0 | 2408 | | 042. 5 | 785. 6 | | 721. 2 | 64. 4 | |
| 057 | 71 54. 0 | 38 30. 0 | 2399 | | 045. 5 | 785. 8 | | 720. 1 | 65. 8 | |
| 056 | 71 55. 5 | 38 24. 0 | 2413 | | 039. 5 | 784. 1 | | 721. 4 | 62. 7 | |
| 054 | 71 55. 7 | 38 20. 0 | 2416 | | 040. 9 | 786. 4 | | 721. 6 | 64. 9 | |
| 052 | 71 55. 9 | 38 12. 0 | 2425 | | 045. 0 | 793. 4 | | 721. 8 | 71. 6 | |
| 050 | 71 55. 5 | 38 02. 0 | 2422 | | 043. 9 | 791. 3 | | 721. 4 | 69. 9 | |
| | | | | | | | 982 | | | |
| 049 | 71 54. 2 | 37 59. 0 | 2412 | 1647 | 054. 0 | 798. 3 | 650. 6 | 720. 2 | 78. 1 | −70. 0 |
| 046 | 71 54. 6 | 37 49. 0 | 2408 | | 048. 6 | 791. 7 | | 720. 6 | 71. 1 | |
| 044 | 71 54. 7 | 37 41. 0 | 2411 | | 044. 0 | 788. 0 | | 720. 7 | 67. 3 | |
| 042 | 71 54. 8 | 37 34. 0 | 2413 | | 041. 5 | 786. 2 | | 720. 8 | 65. 4 | |
| 040 | 71 55. 0 | 37 24. 3 | 2425 | | 040. 3 | 788. 6 | | 721. 0 | 67. 7 | |
| 039 | 71 53. 6 | 37 20. 0 | 2419 | | 044. 1 | 790. 6 | | 719 7 | 70. 9 | |
| 038 | 71 54. 6 | 37 15. 0 | 2430 | | 039. 6 | 789. 5 | | 720. 6 | 68. 9 | |
| 036 | 71 53. 8 | 37 12. 0 | 2431 | | 045. 9 | 796. 1 | | 719. 9 | 76. 2 | |
| 034 | 71 53. 3 | 37 10. 0 | 2422 | | 054. 8 | 802. 2 | | 719. 4 | 82. 8 | |
| 032 | 71 53. 1 | 37 05. 0 | 2414 | | 052. 4 | 797. 3 | | 719. 3 | 78. 1 | |
| 031 | 71 51. 6 | 37 03. 0 | 2410 | 1637 | 050. 8 | 794. 5 | 646. 3 | 717. 9 | 76. 6 | −71. 2 |

| Station No. | Latitude | Longitude | Elevation (m) | Thickness of ice(m) | g (mgal) | go (mgal) | go″ (mgal) | $r_0$ (mgal) | △go (mgal) | △go″ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 982 | 982 | | 982 | | |
| A 030 | 71° 52. 8′S | 36° 59. 9′E | 2414 | | 045. 7 | 790. 7 | | 719. 0 | 71. 7 | |
| 028 | 71 52. 2 | 36 55. 0 | 2397 | | 058. 6 | 798. 4 | | 718. 5 | 79. 9 | |
| 026 | 71 56. 8 | 36 50. 0 | 2395 | | 066. 1 | 805. 2 | | 718. 1 | 87. 1 | |
| 025 | 71 50. 5 | 36 48. 0 | 2377 | 1402 | 063. 2 | 796. 7 | 982 634. 7 | 716. 9 | 79. 8 | −82. 2 |
| 021 | 71 51. 3 | 36 39. 0 | 2392 | | 053. 6 | 791. 8 | | 717. 7 | 74. 1 | |
| 020 | 71 50. 9 | 36 36. 0 | 2388 | 1479 | 060. 9 | 797. 9 | 640. 4 | 717. 3 | 80. 6 | −76. 9 |
| 019 | 71 51. 9 | 36 34. 0 | 2387 | | 064. 8 | 801. 4 | | 718. 2 | 83. 2 | |
| 017 | 71 52. 6 | 36 27. 0 | 2376 | | 093. 9 | 827. 1 | | 718. 8 | 108. 3 | |
| 015 | 71 51. 7 | 36 23. 0 | 2353 | | 096. 8 | 822. 9 | | 718. 0 | 104. 9 | |
| 014 | 71 50. 6 | 36 22. 0 | 2350 | | 104. 6 | 829. 8 | | 717. 0 | 112. 8 | |
| 013 | 71 50. 4 | 36 18. 0 | 2336 | | 104. 1 | 825. 0 | | 716. 8 | 108. 1 | |
| 012 | 71 50. 4 | 36 22. 0 | 2351 | | 107. 4 | 832. 9 | | 716. 8 | 116. 1 | |
| 010 | 71 50. 0 | 36 20. 0 | 2338 | 390 | 121. 3 | 842. 8 | 610. 1 | 716. 5 | 126. 3 | −106. 4 |
| 009 | 71 48. 9 | 36 20. 0 | 2296 | | 133. 0 | 841. 5 | | 715. 5 | 126. 0 | |
| 003 | 71 48. 0 | 36 11. 0 | 2251 | 436 | 143. 9 | 838. 5 | 619. 0 | 714. 7 | 123. 8 | -96. 1 |
| B 3 | 71 47. 0 | 36. 1° | 2217 | | 124. 3 | 808. 5 | | 713. 8 | 94. 7 | |
| 5 | 71 46. 0 | 36. 1 | 2182 | | 131. 8 | 805. 2 | | 712. 9 | 92. 3 | |
| 12 | 71 44. 0 | 35. 8 | 1991 | | 219. 6 | 834. 1 | | 711. 1 | 123. 0 | |
| 13 | 71 43. 0 | 35. 7 | 1933 | 505 | 211. 1 | 807. 6 | 628. 8 | 710. 2 | 97. 4 | −81. 4 |
| 14 | 71 42. 0 | 35. 7 | 1918 | | 202. 7 | 794. 6 | | 709. 3 | 85. 3 | |
| 15 | 71 41. 0 | 35. 6 | 1888 | | 200. 0 | 782. 6 | | 708. 4 | 74. 2 | |
| 16 | 71 40. 0 | 35. 6 | 1877 | | 192. 2 | 771. 4 | | 707. 5 | 63. 9 | |
| 17 | 71 39. 0 | 35. 5 | 1857 | | 199. 9 | 772. 9 | | 706. 6 | 66. 3 | |
| 18 | 71 38. 0 | 35. 5 | 1847 | | 204. 5 | 774. 4 | | 705. 7 | 68. 7 | |

| Station No. | Latitude | Longitude | Elevation (m) | Thickness of ice(m) | g (mgal) | $g_0$ (mgal) | $g_0''$ (mgal) | $r_0$ (mgal) | $\triangle g_0$ (mgal) | $\triangle g_0''$ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 982 | 982 | 982 | 982 | | |
| Yamato B–1 | 71° 37. 0′S | 35. 6° E | 1952 | 0 | 211. 0 | 823. 4 | 605. 0 | 704. 8 | 118. 6 | −99. 8 |
| Yamato B–3 | 71 36. 0 | 35. 7 | 2078 | 0 | 197. 7 | 839. 0 | 606. 4 | 703. 9 | 135. 1 | −97. 5 |
| Yamato B–2 | 71 36. 0 | 35. 6 | 2141 | 0 | 188. 0 | 848. 7 | 609. 1 | 703. 9 | 144. 8 | −94. 8 |
| B 19 | 71 37. 0 | 35. 5 | 1819 | | 212. 4 | 773. 8 | | 704. 8 | 69. 0 | |
| 20 | 71 36. 0 | 35. 5 | 1800 | | 221. 6 | 777. 1 | | 703. 9 | 73. 2 | |
| 21 | 71 35. 0 | 35. 5 | 1793 | | 224. 6 | 777. 9 | | 703. 0 | 74. 9 | |
| 22 | 71 34. 0 | 35. 5 | 1765 | | 224. 8 | 769. 5 | | 702. 1 | 67. 4 | |
| 23 | 71 33. 0 | 35. 5 | 1750 | | 226. 3 | 766. 3 | | 701. 2 | 65. 1 | |
| 24 | 71 32. 0 | 35. 5 | 1740 | 766 | 236. 4 | 773. 4 | 635. 5 | 700. 3 | 73. 1 | −64. 8 |
| 25 | 71 31. 0 | 35. 5 | 1724 | | 253. 4 | 785. 5 | | 699. 4 | 86. 1 | |
| 26 | 71 30. 0 | 35. 4 | 1713 | 587 | 237. 2 | 765. 8 | 617. 8 | 698. 5 | 67. 4 | −80. 7 |
| 27 | 71 30. 0 | 35. 4 | 1705 | | 229. 3 | 755. 4 | | 698. 5 | 57. 0 | |
| 28 | 71 29. 0 | 35. 4 | 1704 | 992 | 218. 3 | 744. 1 | 627. 0 | 697. 6 | 46. 6 | −70. 5 |
| 29 | 71 28. 0 | 35. 3 | 1705 | | 207. 4 | 733. 5 | | 696. 6 | 36. 9 | |
| 30 | 71 28. 0 | 35. 3 | 1718 | | 214. 1 | 744. 3 | | 696. 6 | 47. 6 | |
| 31 | 71 27. 0 | 35. 4 | 1700 | | 228. 4 | 753. 0 | | 695. 7 | 57. 2 | |
| 32 | 71 26. 0 | 35. 3 | 1694 | 1036 | 221. 0 | 743. 8 | 631. 1 | 694. 8 | 49. 0 | −63. 7 |
| 33 | 71 25. 0 | 35. 3 | 1680 | | 224. 8 | 743. 3 | | 693. 9 | 49. 3 | |
| 34 | 71 24. 0 | 35. 4 | 1663 | 975 | 229. 2 | 742. 4 | 628. 6 | 693. 0 | 49. 4 | −64. 4 |
| 35 | 71 24. 0 | 35. 4 | 1649 | | 230. 6 | 739. 4 | | 693. 0 | 46. 5 | |
| 36 | 71 23. 0 | 35. 4 | 1635 | 965 | 229. 3 | 733. 9 | 622. 5 | 692. 1 | 41. 8 | −69. 6 |
| 37 | 71 22. 0 | 35. 4 | 1632 | | 223. 2 | 726. 9 | | 691. 2 | 35. 7 | |
| 38 | 71 21. 0 | 35. 4 | 1643 | | 219. 4 | 726. 4 | | 690. 3 | 36. 1 | |
| 39 | 71 20. 0 | 35. 4 | 1638 | | 221. 6 | 727. 1 | | 689. 3 | 37. 7 | |

| Station No. | Latitude | Longitude | Elevation (m) | Thickness of ice(m) | g (mgal) | $g_o$ (mgal) | $g_o''$ (mgal) | $r_o$ (mgal) | $\triangle g_o$ (mgal) | $\triangle g_o''$ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| B 40 | 71° 19. 0′S | 35. 3°E | 1641 | | 213. 6 | 720. 0 | | 688. 4 | 31. 6 | |
| 41 | 71 20. 0 | 35. 4 | 1630 | 855 | 226. 5 | 729. 5 | 610. 5 | 689. 3 | 40. 2 | −78. 8 |
| 42 | 71 21. 0 | 35. 4 | 1647 | | 219. 9 | 728. 1 | | 690. 3 | 37. 9 | |
| 43 | 71 20. 0 | 35. 5 | 1671 | 1248 | 206. 6 | 722. 3 | 627. 9 | 689. 3 | 33. 0 | −61. 4 |
| 44 | 71 20. 0 | 35. 5 | 1671 | | 200. 8 | 716. 5 | | 689. 3 | 27. 2 | |
| 45 | 71 20. 0 | 35. 6 | 1685 | | 198. 5 | 718. 5 | | 689. 3 | 29. 1 | |
| 46 | 71 21. 0 | 35. 6 | 1705 | | 196. 6 | 722. 7 | | 690. 3 | 32. 5 | |
| 47 | 71 22. 0 | 35. 7 | 1743 | | 186. 9 | 724. 8 | | 691. 2 | 33. 6 | |
| 48 | 71 23. 0 | 35. 7 | 1800 | | 180. 9 | 736. 4 | | 692. 1 | 44. 3 | |
| Yamato D−2 | 71 24. 0 | 35° 39. 0′ | 1976 | 0 | 211. 7 | 821. 5 | 600. 4 | 693. 0 | 128. 5 | −92. 6 |
| C 1 | 71 23. 6 | 35 44. 6 | 1813 | | 195. 1 | 754. 6 | | 692. 6 | 62. 0 | |
| 2 | 71 21. 9 | 35 48. 1 | 1832 | 629 | 190. 3 | 755. 6 | 597. 3 | 691. 1 | 64. 5 | −93. 8 |
| 3 | 71 21. 4 | 35 50. 9 | 1848 | | 178. 7 | 749. 0 | | 690. 6 | 58. 4 | |
| 4 | 71 20. 8 | 35 53. 7 | 1828 | | 185. 3 | 749. 4 | | 690. 1 | 59. 4 | |
| 5 | 71 20. 4 | 35 56. 5 | 1808 | | 181. 8 | 739. 8 | | 689. 7 | 50. 0 | |
| 6 | 71 19. 7 | 35 59. 3 | 1796 | 1113 | 163. 6 | 717. 9 | 599. 5 | 689. 1 | 28. 8 | −89. 6 |
| 7 | 71 19. 3 | 36 02. 1 | 1794 | | 150. 8 | 704. 4 | | 688. 7 | 15. 7 | |
| 8 | 71 18. 9 | 36 04. 9 | 1790 | | 143. 1 | 695. 5 | | 688. 3 | 7. 2 | |
| 9 | 71 18. 2 | 36 07. 8 | 1779 | | 141. 6 | 690. 6 | | 687. 7 | 2. 9 | |
| 10 | 71 17. 6 | 36 10. 5 | 1768 | 1171 | 158. 0 | 703. 6 | 592. 6 | 687. 1 | 16. 4 | −94. 5 |
| 11 | 71 17. 2 | 36 13. 2 | 1764 | | 168. 4 | 712. 8 | | 686. 8 | 26. 0 | |
| 12 | 71 16. 5 | 36 16. 0 | 1757 | | 175. 5 | 717. 7 | | 686. 1 | 31. 6 | |
| 13 | 71 16. 1 | 36 18. 8 | 1754 | | 183. 3 | 724. 6 | | 685. 8 | 38. 8 | |
| 14 | 71 15. 5 | 36 21. 6 | 1758 | 1154 | 183. 0 | 725. 5 | 614. 4 | 685. 2 | 40. 3 | −70. 8 |

| Station No. | Latitude | Longitude | Elevation (m) | Thickness of ice(m) | g (mgal) | $g_0$ (mgal) | $g_0''$ (mgal) | $r_0$ (mgal) | $\triangle g_0$ (mgal) | $\triangle g_0''$ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 982 | 982 | | 982 | | |
| C 15 | 71° 15. 0′S | 36° 24. 4′E | 1763 | | 176. 2 | 720. 2 | 982 | 684. 8 | 35. 5 | |
| 16 | 71 14. 4 | 36 27. 2 | 1759 | 1283 | 175. 0 | 717. 8 | 616. 2 | 684. 2 | 33. 6 | −68. 0 |
| 17 | 71 13. 9 | 36 30. 0 | 1759 | 1240 | 171. 2 | 714. 0 | 609. 1 | 683. 7 | 30. 3 | −74. 6 |
| 18 | 71 13. 3 | 36 32. 6 | 1768 | 1368 | 156. 4 | 702. 0 | 605. 7 | 683. 2 | 18. 8 | −77. 5 |
| 19 | 71 12. 6 | 36 34. 2 | 1762 | 1385 | 153. 0 | 696. 8 | 602. 4 | 682. 6 | 14. 2 | −80. 2 |
| 20 | 71 11. 9 | 36 36. 6 | 1764 | 1710 | 141. 3 | 685. 7 | 615. 2 | 681. 9 | 3. 8 | −66. 7 |
| 21 | 71 11. 5 | 36 39. 4 | 1766 | | 135. 5 | 680. 5 | | 681. 5 | − 1. 0 | |
| 22 | 71 11. 0 | 36 41. 5 | 1756 | 1334 | 151. 1 | 693. 0 | 595. 5 | 681. 1 | 11. 9 | −85. 6 |
| 23 | 71 10. 6 | 36 44. 3 | 1759 | 1171 | 153. 8 | 696. 6 | 586. 7 | 680. 7 | 15. 9 | −94. 0 |
| 24 | 71 10. 1 | 36 46. 9 | 1771 | | 138. 9 | 685. 5 | | 680. 2 | 5. 2 | |
| 25 | 71 09. 7 | 36 49. 5 | 1782 | 855 | 124. 5 | 674. 4 | 538. 5 | 679. 9 | − 5. 4 | −141. 4 |
| 26 | 71 09. 2 | 36 52. 2 | 1779 | | 121. 3 | 670. 3 | | 679. 4 | − 9. 1 | |
| 27 | 71 08. 8 | 36 55. 6 | 1786 | | 120. 3 | 671. 4 | | 679. 0 | − 7. 6 | |
| 28 | 71 08. 2 | 36 58. 4 | 1787 | | 123. 7 | 675. 2 | | 678. 5 | − 3. 3 | |
| 29 | 71 08. 2 | 37 01. 6 | 1787 | | 130. 6 | 682. 1 | | 678. 5 | 3. 6 | |
| 30 | 71 08. 1 | 37 04. 7 | 1792 | | 130. 0 | 683. 0 | | 678. 4 | 4. 6 | |
| 31 | 71 08. 1 | 37 07. 9 | 1798 | | 124. 3 | 679. 2 | | 678. 4 | 0. 8 | |
| 32 | 71 08. 0 | 37 11. 1 | 1798 | | 132. 3 | 687. 2 | | 678. 3 | 8. 9 | |
| 33 | 71 08. 1 | 37 14. 3 | 1799 | | 141. 7 | 696. 9 | | 678. 4 | 18. 5 | |
| 34 | 71 08. 0 | 37 17. 5 | 1797 | 1539 | 151. 6 | 706. 2 | 619. 3 | 678. 3 | 27. 9 | −59. 0 |
| 35 | 71 08. 0 | 37 20. 7 | 1801 | | 158. 5 | 714. 3 | | 678. 3 | 36. 0 | |
| 36 | 71 08. 0 | 37 23. 9 | 1803 | | 160. 3 | 716. 7 | | 678. 3 | 38. 4 | |
| 37 | 71 07. 9 | 37 27. 5 | 1805 | | 158. 6 | 715. 6 | | 678. 2 | 37. 4 | |
| 38 | 71 07. 9 | 37 30. 3 | 1806 | 1454 | 156. 0 | 713. 3 | 619. 1 | 678. 2 | 35. 1 | −59. 1 |

| Station No. | Latitude | Longitude | Elevation (m) | Thickness of ice(m) | g (mgal) | $g_o$ (mgal) | $g_o''$ (mgal) | $r_o$ (mgal) | $\triangle g_o$ (mgal) | $\triangle g_o''$ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| C 39 | 71° 07. 8′S | 37° 33. 5′E | 1808 | | 982 157. 7 | 982 715. 7 | | 982 678. 1 | 37. 5 | |
| 40 | 71 07. 8 | 37 36. 6 | 1813 | 1245 | 160. 1 | 719. 6 | 982 609. 1 | 678. 1 | 41. 5 | −69. 0 |
| 41 | 71 07. 7 | 37 39. 8 | 1815 | 1419 | 156. 6 | 716. 7 | 618. 9 | 678. 0 | 38. 7 | −59. 1 |
| 42 | 71 07. 7 | 37 43. 0 | 1811 | | 155. 1 | 713. 9 | | 678. 0 | 35. 9 | |
| 43 | 71 07. 6 | 37 46. 2 | 1808 | | 155. 1 | 713. 0 | | 677. 9 | 35. 1 | |
| 44 | 71 07. 6 | 37 49. 4 | 1807 | | 162. 2 | 719. 8 | | 677. 9 | 41. 9 | |
| 45 | 71 07. 5 | 37 52. 5 | 1799 | 1026 | 165. 0 | 720. 2 | 594. 9 | 677. 8 | 42. 3 | −82. 9 |
| 46 | 71 07. 5 | 37 55. 7 | 1793 | | 164. 0 | 717. 3 | | 677. 8 | 39. 5 | |
| 47 | 71 07. 3 | 37 58. 9 | 1799 | 1368 | 154. 7 | 709. 9 | 610. 1 | 677. 7 | 32. 2 | −67. 6 |
| 48 | 71 07. 3 | 38 02. 1 | 1793 | 1654 | 145. 8 | 699. 1 | 621. 2 | 677. 7 | 21. 4 | −56. 5 |
| 49 | 71 07. 2 | 38 05. 3 | 1792 | 864 | 139. 9 | 692. 9 | 556. 6 | 677. 6 | 15. 4 | −121. 0 |
| 50 | 71 07. 2 | 38 08. 4 | 1796 | 1394 | 136. 4 | 690. 7 | 593. 2 | 677. 6 | 13. 1 | −84. 4 |
| 51 | 71 07. 1 | 38 11. 6 | 1786 | 1684 | 134. 7 | 685. 9 | 611. 1 | 677. 5 | 8. 4 | −66. 4 |
| 52 | 71 07. 1 | 38 14. 8 | 1768 | 1462 | 137. 2 | 682. 8 | 593. 5 | 677. 5 | 5. 4 | −84. 0 |
| 53 | 71 07. 0 | 38 18. 0 | 1757 | | 133. 8 | 676. 0 | | 677. 4 | − 1. 3 | |
| 54 | 71 07. 0 | 38 21. 2 | 1763 | 1642 | 129. 1 | 673. 1 | 597. 7 | 677. 4 | − 4. 3 | −79. 7 |
| 55 | 71 06. 9 | 38 24. 3 | 1757 | | 128. 4 | 670. 6 | | 677. 3 | − 6. 7 | |
| 56 | 71 06. 9 | 38 27. 5 | 1745 | | 128. 2 | 666. 7 | | 677. 3 | −10. 6 | |
| 57 | 71 06. 8 | 38 30. 7 | 1730 | | 124. 0 | 657. 9 | | 677. 2 | −19. 3 | |
| 58 | 71 06. 8 | 38 33. 9 | 1725 | | 112. 8 | 645. 1 | | 677. 2 | −32. 1 | |
| 59 | 71 06. 7 | 38 37. 2 | 1721 | | 103. 0 | 634. 1 | | 677. 1 | −43. 0 | |
| 60 | 71 06. 7 | 38 40. 3 | 1729 | | 100. 8 | 634. 4 | | 677. 1 | −42. 7 | |
| 61 | 71 06. 6 | 38 43. 5 | 1744 | | 103. 7 | 641. 9 | | 677. 0 | −35. 1 | |
| 62 | 71 06. 6 | 38 46. 7 | 1749 | | 108. 3 | 648. 1 | | 677. 0 | −28. 9 | |

| Station No. | Latitude | Longitude | Elevation (m) | Thickness of ice(m) | g (mgal) | $g_o$ (mgal) | $g_o''$ (mgal) | $r_o$ (mgal) | $\triangle g_o$ (mgal) | $\triangle g_o''$ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 982 | 982 | | 982 | | |
| C 63 | 71° 06. 5'S | 38° 49. 8'E | 1748 | | 114. 2 | 653. 6 | | 676. 9 | −23. 3 | |
| 64 | 71 06. 5 | 38 53. 0 | 1741 | | 121. 2 | 658. 5 | | 676. 9 | −18. 4 | |
| 65 | 71 06. 4 | 38 56. 2 | 1737 | | 128. 2 | 664. 3 | | 676. 8 | −12. 5 | |
| 66 | 71 06. 4 | 38 59. 4 | 1741 | 1659 | 136. 1 | 673. 3 | 982 601. 6 | 676. 8 | − 3. 5 | −75. 2 |
| 67 | 71 06. 3 | 39 02. 6 | 1740 | 1488 | 146. 9 | 683. 9 | 599. 5 | 676. 7 | 7. 2 | −77. 2 |
| 68 | 71 06. 3 | 39 05. 7 | 1719 | | 157. 8 | 688. 3 | | 676. 7 | 11. 6 | |
| 69 | 71 06. 2 | 39 08. 9 | 1743 | 1448 | 150. 3 | 688. 2 | 600. 5 | 676. 6 | 11. 5 | −76. 1 |
| 70 | 71 06. 2 | 39 12. 1 | 1747 | | 149. 2 | 688. 3 | | 676. 6 | 11. 7 | |
| 71 | 71 06. 1 | 39 15. 3 | 1713 | | 160. 3 | 688. 9 | | 676. 5 | 12. 4 | |
| 72 | 71 06. 1 | 39 18. 5 | 1733 | | 157. 5 | 692. 3 | | 676. 5 | 15. 7 | |
| 73 | 71 06. 0 | 39 21. 6 | 1734 | | 160. 0 | 695. 1 | | 676. 4 | 18. 6 | |
| 74 | 71 06. 0 | 39 24. 3 | 1733 | 1262 | 163. 6 | 698. 4 | 598.0 | 676. 4 | 21. 9 | −78. 4 |
| 75 | 71 05. 9 | 39 28. 0 | 1749 | | 159. 0 | 698. 7 | | 676. 4 | 22. 4 | |
| 76 | 71 05. 9 | 39 31. 2 | 1753 | | 155. 2 | 696. 2 | | 676. 4 | 19. 8 | |
| 77 | 71 05. 8 | 39 34. 4 | 1751 | 1462 | 154. 5 | 694. 9 | 607. 5 | 676. 3 | 18. 6 | −68. 8 |
| 78 | 71 05. 8 | 39 37. 5 | 1757 | | 154. 7 | 696. 9 | | 676. 3 | 20. 6 | |
| 79 | 71 05. 8 | 39 40. 7 | 1772 | 1383 | 149. 4 | 696. 2 | 600. 6 | 676. 3 | 19. 9 | −75. 7 |
| 80 | 71 05. 4 | 39 43. 9 | 1767 | | 145. 5 | 690. 8 | | 675. 9 | 14. 9 | |
| 81 | 71 05. 7 | 39 47. 4 | 1767 | 1595 | 138. 3 | 683. 6 | 604. 2 | 676. 2 | 7. 4 | −72. 0 |
| 82 | 71 05. 7 | 39 50. 8 | 1775 | 1924 | 130. 0 | 677. 7 | 621. 9 | 676. 2 | 1. 6 | −54. 3 |
| 83 | 71 05. 8 | 39 54. 1 | 1780 | 1924 | 128. 9 | 678. 2 | 621. 9 | 676. 3 | 2. 0 | −54. 4 |
| 84 | 71 05. 8 | 39 57. 5 | 1793 | 1666 | 126. 5 | 679. 8 | 602. 8 | 676. 3 | 3. 6 | −73. 5 |
| 85 | 71 05. 8 | 40 01. 0 | 1794 | 1693 | 123. 0 | 676. 6 | 601. 5 | 676. 3 | 0. 3 | −74. 8 |
| 86 | 71 05. 8 | 40 03. 5 | 1799 | | 117. 1 | 672. 3 | | 676. 3 | − 4. 0 | |

| Station No. | Latitude | Longitude | Elevation (m) | Thickness of ice(m) | g (mgal) | $g_o$ (mgal) | $g_o''$ (mgal) | $r_o$ (mgal) | $\triangle g_o$ (mgal) | $\triangle g_o''$ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 982 | 982 | 982 | 982 | | |
| C 87 | 71° 05 8′S | 40° 06. 8E | 1817 | 1751 | 108. 9 | 669. 6 | 596. 2 | 676. 3 | − 6. 7 | −80. 1 |
| 88 | 71 05. 8 | 40 10. 2 | 1817 | | 102. 7 | 663. 4 | | 676. 3 | −12. 9 | |
| 89 | 71 05. 8 | 40 13. 6 | 1806 | | 100. 2 | 657. 6 | | 676. 3 | −18. 7 | |
| 90 | 71 05. 8 | 40 17. 1 | 1802 | | 104. 8 | 660. 8 | | 676. 3 | −15. 4 | |
| 91 | 71 05. 8 | 40 20. 5 | 1805 | | 111. 1 | 668. 1 | | 676. 3 | − 8. 2 | |
| 92 | 71 05. 8 | 40 23. 9 | 1801 | | 114. 8 | 670. 6 | | 676. 3 | − 5. 7 | |
| 93 | 71 05. 9 | 40 27. 3 | 1787 | 1654 | 121. 5 | 673. 0 | 595. 8 | 676. 4 | − 3. 4 | −80. 6 |
| 94 | 71 05. 9 | 40 31. 8 | 1794 | | 120. 5 | 674. 1 | | 676. 4 | − 2. 2 | |
| 95 | 71 05. 9 | 40 35. 3 | 1796 | | 118. 9 | 673. 2 | | 676. 4 | − 3. 2 | |
| 96 | 71 05. 9 | 40 38. 7 | 1790 | 1683 | 127. 3 | 679. 7 | 604. 3 | 676. 4 | 3. 3 | −72. 1 |
| 97 | 71 05. 9 | 40 42. 0 | 1809 | 1539 | 126. 6 | 684. 8 | 596. 7 | 676. 4 | 8. 5 | −79. 7 |
| 98 | 71 06. 0 | 40 45. 5 | 1824 | 1654 | 115. 3 | 678. 2 | 596. 8 | 676. 4 | 1. 8 | −79. 7 |
| 99 | 71 06. 0 | 40 48. 9 | 1838 | | 099. 2 | 666. 4 | | 676. 4 | −10. 1 | |
| 100 | 71 06. 0 | 40 52. 4 | 1823 | 1967 | 101. 7 | 664. 3 | 606. 2 | 676. 4 | −12. 2 | −70. 2 |
| 101 | 71 06. 0 | 40 55. 7 | 1827 | 1903 | 101. 3 | 665. 1 | 601. 8 | 676. 4 | −11. 3 | −74. 6 |
| 102 | 71 06. 0 | 40 59. 1 | 1827 | 2095 | 097. 6 | 661. 4 | 612. 4 | 676. 4 | −15. 0 | −64. 1 |
| 103 | 71 06. 1 | 41 02. 5 | 1838 | | 095. 4 | 662. 6 | | 676. 5 | −13. 9 | |
| 104 | 71 06. 1 | 41 06. 0 | 1837 | 1989 | 098. 0 | 664. 9 | 606. 9 | 676. 5 | −11. 6 | −69. 6 |
| 105 | 71 06. 1 | 41 09. 5 | 1836 | 1903 | 100. 5 | 667. 1 | 602. 8 | 676. 5 | − 9. 5 | −73. 7 |
| 106 | 71 06. 1 | 41 12. 8 | 1853 | 1967 | 095. 4 | 667. 2 | 605. 8 | 676. 5 | − 9. 4 | −70. 7 |
| 107 | 71 06. 2 | 41 16. 2 | 1856 | | 095. 3 | 668. 1 | | 676. 6 | − 8. 6 | |
| 108 | 71 06. 3 | 41 19. 6 | 1860 | 1753 | 098. 4 | 672. 4 | 594. 4 | 676. 7 | − 4. 3 | −82. 3 |
| 109 | 71 06. 3 | 41 23. 1 | 1875 | 1830 | 095. 9 | 674. 5 | 600. 5 | 676. 7 | − 2. 2 | −76. 2 |
| 110 | 71 06. 3 | 41 26. 6 | 1889 | 1825 | 092. 2 | 675. 2 | 599. 2 | 676. 7 | − 1. 5 | −77. 5 |

| Station No. | Latitude | Longitude | Elevation (m) | Thickness of ice(m) | g (mgal) | go (mgal) | go″ (mgal) | ro (mgal) | △go (mgal) | △go″ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 982 | 982 | 982 | 982 | | |
| C111 | 71° 06. 3′S | 41° 29. 9′E | 1890 | 1903 | 090. 1 | 673. 3 | 603. 0 | 676. 7 | − 3. 4 | −73. 7 |
| 112 | 71 06. 3 | 41 33. 3 | 1889 | 2009 | 088. 3 | 671. 3 | 609. 0 | 676. 7 | − 5. 5 | −67. 7 |
| 113 | 71 06. 4 | 41 36. 7 | 1917 | | 077. 6 | 669. 2 | | 676. 8 | − 7. 6 | |
| 114 | 71 06. 4 | 41 40. 2 | 1934 | | 067. 7 | 664. 5 | | 676. 8 | −12. 3 | |
| 115 | 71 06. 4 | 41 43. 6 | 1930 | | 064. 5 | 660. 1 | | 676. 8 | −16. 7 | |
| 116 | 71 06. 5 | 41 47. 0 | 1919 | | 066. 7 | 658. 9 | | 676. 9 | −18. 0 | |
| 117 | 71 06. 5 | 41 50. 4 | 1904 | 1796 | 076. 5 | 664. 0 | 584. 3 | 676. 9 | −12. 9 | −92. 6 |
| 118 | 71 06. 6 | 41 53. 8 | 1937 | 1818 | 073. 6 | 671. 4 | 589. 5 | 677. 0 | − 5. 6 | −87. 5 |
| 119 | 71 06. 6 | 41 57. 3 | 1969 | 1881 | 063. 4 | 671. 1 | 590. 3 | 677. 0 | − 5. 9 | −86. 7 |
| 120 | 71 06. 6 | 42 00. 7 | 1984 | | 053. 3 | 665. 5 | | 677. 0 | −11. 5 | |
| 121 | 71 05. 6 | 42 03. 1 | 1991 | 2074 | 050. 1 | 664. 5 | 595. 6 | 676. 1 | −11. 6 | −80. 5 |
| 122 | 71 05. 3 | 42 05. 4 | 1991 | 2160 | 043. 4 | 657. 8 | 595. 3 | 675. 8 | −18. 0 | −80. 5 |
| 123 | 71 04. 8 | 42 07. 7 | 1993 | | 035. 5 | 650. 5 | | 675. 3 | −24. 8 | |
| 124 | 71 04. 2 | 42 10. 1 | 1982 | | 035. 7 | 647. 4 | | 674. 8 | −27. 4 | |
| 125 | 71 03. 6 | 42 12. 3 | 1968 | | 044. 8 | 652. 1 | | 674. 2 | −22. 1 | |
| 126 | 71 02. 9 | 42 14. 6 | 1958 | | 051. 0 | 655. 2 | | 673. 6 | −18. 4 | |
| 127 | 71 02. 3 | 42 17. 0 | 1963 | | 047. 5 | 653. 3 | | 673. 0 | −19. 8 | |
| 128 | 71 01. 7 | 42 19. 3 | 1965 | | 043. 2 | 649. 6 | | 672. 5 | −22. 9 | |
| 129 | 71 01. 1 | 42 21. 5 | 1966 | | 041. 9 | 648. 6 | | 671. 9 | −23. 3 | |
| 130 | 71 00. 5 | 42 23. 8 | 1978 | 2331 | 040. 4 | 650. 8 | 602. 4 | 671. 4 | −20. 5 | −68. 9 |
| 131 | 70 59. 8 | 42 26. 2 | 1985 | 2351 | 038. 3 | 650. 9 | 603. 2 | 670. 7 | −19. 8 | −67. 5 |
| 132 | 70 59. 2 | 42 28. 4 | 1994 | 2138 | 035. 2 | 650. 6 | 586. 0 | 670. 1 | −19. 6 | −84. 1 |
| 133 | 70 58. 7 | 42 30. 8 | 2004 | | 033. 9 | 652. 3 | | 669. 7 | −17. 3 | |
| 134 | 70 58. 1 | 42 33. 1 | 2003 | | 038. 7 | 656. 8 | | 669. 1 | −12. 3 | |

| Station No. | Latitude | Longitude | Elevation (m) | Thickness of ice(m) | g (mgal) | $g_o$ (mgal) | $g_o''$ (mgal) | $r_o$ (mgal) | $\triangle g_o$ (mgal) | $\triangle g_o''$ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 982 | 982 | | 982 | | |
| C 135 | 70° 57. 4′S | 42° 35. 4′E | 1998 | | 043. 7 | 660. 3 | | 668. 5 | − 8. 2 | |
| 136 | 70 56. 8 | 42 37. 7 | 1993 | | 044. 6 | 659. 6 | | 667. 9 | − 8. 3 | |
| 137 | 70 56. 2 | 42 40. 0 | 1988 | | 045. 4 | 658. 9 | | 667. 4 | − 8. 5 | |
| 138 | 70 55. 6 | 42 42. 4 | 1994 | | 045. 1 | 660. 5 | | 666. 8 | − 6. 3 | |
| 139 | 70 55. 0 | 42 44. 6 | 2000 | | 045. 1 | 662. 3 | | 666. 2 | − 3. 9 | |
| 140 | 70 54. 4 | 42 46. 9 | 2002 | | 045. 3 | 663. 1 | | 665. 7 | − 2. 5 | |
| 141 | 70 53. 8 | 42 49. 3 | 2006 | | 046. 0 | 665. 2 | | 665. 1 | 0. 1 | |
| 142 | 70 53. 1 | 42 51. 5 | 2012 | | 046. 5 | 667. 4 | | 664. 5 | 3. 0 | |
| 143 | 70 52. 6 | 42 53. 8 | 2016 | | 046. 3 | 668. 4 | | 664. 0 | 4. 4 | |
| 144 | 70 52. 0 | 42 56. 2 | 2025 | | 044. 0 | 668. 9 | | 663. 4 | 5. 5 | |
| 145 | 70 51. 3 | 42 58. 5 | 2031 | | 043. 3 | 670. 0 | | 662. 8 | 7. 3 | |
| 146 | 70 50. 7 | 43 00. 8 | 2029 | | 044. 3 | 670. 5 | | 662. 2 | 8. 3 | |
| 147 | 70 50. 1 | 43 03. 1 | 2040 | | 039. 9 | 669. 5 | | 661. 6 | 7. 8 | |
| 148 | 70 49. 8 | 43 05. 6 | 2054 | | 033. 4 | 667. 2 | | 661. 4 | 5. 9 | |
| 149 | 70 49. 8 | 43 08. 3 | 2044 | | 033. 8 | 664. 6 | | 661. 4 | 3. 2 | |

Table IX-2: Gravity values, and free air and Bouguer anomalies in West Enderby Land, 1970 - 1971.
Location, elevation and ice thickness were referred to Shimizu et al. (1972).
g: observed value, $g_o$: gravity value reduced to sea level by free air reduction, $g_o''$: gravity value by Bouguer reduction (assuming the density of ice and bed rock as $0.9 g/cm^3$ and $2.67 g/cm^3$ respectively), $\gamma_o$: standard gravity value, $\triangle g_o$: free air anomaly, and $\triangle g_o''$: Bouguer anomaly.

| Station No. | Latitude | Longitude | Elevation | Thickness of ice | g(mgal) | $g_o$(mgal) | $g_o''$(mgal) | $\gamma_o$(mgal) | $\triangle g_o$ (mgal) | $\triangle g_o''$ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| Syowa | 69°00.3'S | 39°35'E | 14.0m | m | 982 539.4 | 982 543.7 | 982 542.2 | 982 554.8 | −11.0 | −12.6 |
| Syowa | 69 00.3 | 39 35 | 16 | | 539.0 | 543.9 | 542.1 | 554.8 | −10.9 | −12.6 |
| S 16 | 69 02.0 | 40 03 | 553 | 470 | 406.0 | 576.7 | 549.7 | 556.5 | 20.2 | −6.8 |
| 17 | 69 01.9 | 40 04 | 583 | 501 | 397.8 | 577.7 | 549.7 | 556.4 | 21.3 | −6.7 |
| 22 | 69 01.7 | 40 18 | 743 | 817 | 338.8 | 568.1 | 545.6 | 556.2 | 11.9 | −10.6 |
| 27 | 69 02.5 | 40 32 | 893 | | 294.9 | 570.5 | | 557.0 | 13.5 | |
| 32 | 69 03.6 | 40 46 | 994 | 1134 | 259.8 | 566.6 | 539.4 | 558.1 | 8.5 | −18.7 |
| 37 | 69 04.8 | 40 59 | 1074 | | 239.7 | 571.2 | | 559.3 | 11.8 | |
| 42 | 69 04.6 | 41 13 | 1138 | 1134 | 218.2 | 569.4 | 526.2 | 559.1 | 10.3 | −32.9 |
| 47 | 69 04.3 | 41 26 | 1184 | 1235 | 200.2 | 565.5 | 524.7 | 558.8 | 6.7 | −34.1 |
| 52 | 69 04.1 | 41 40 | 1227 | 1219 | 190.2 | 568.8 | 521.9 | 558.6 | 10.2 | −36.7 |
| 57 | 69 03.8 | 41 54 | 1276 | | 177.9 | 571.7 | | 558.3 | 13.4 | |
| 62 | 69 05.2 | 42 07 | 1341 | 1440 | 141.0 | 554.8 | 511.5 | 559.7 | −4.9 | −48.2 |
| 67 | 69 06.0 | 42 21 | 1363 | | 137.7 | 558.3 | | 560.5 | −2.2 | |
| 70 | 69 06.9 | 42 29 | 1388 | 1419 | 123.9 | 552.2 | 502.2 | 561.4 | −9.2 | −59.2 |
| 72 | 69 09.0 | 42 30 | 1409 | | 123.7 | 558.5 | | 563.5 | −5.0 | |
| 77 | 69 14.2 | 42 33 | 1451 | 1479 | 115.9 | 563.7 | 511.0 | 568.7 | −5.1 | −57.7 |
| 82 | 69 19.4 | 42 36 | 1489 | | 117.5 | 577.0 | | 573.9 | 3.1 | |
| 87 | 69 24.6 | 42 40 | 1534 | | 107.4 | 580.8 | | 579.1 | 1.7 | |
| 90 | 69 27.7 | 42 42 | 1560 | 1436 | 107.2 | 588.6 | 520.7 | 582.2 | 6.4 | −61.5 |
| 92 | 69 29.8 | 42 43 | 1568 | | 103.2 | 587.1 | | 584.3 | 2.8 | |
| 97 | 69 34.9 | 42 48 | 1605 | 1360 | 126.9 | 622.2 | 543.5 | 589.3 | 32.9 | −45.8 |
| 102 | 69 40.1 | 42 51 | 1636 | | 110.5 | 615.4 | | 594.4 | 21.0 | |
| 107 | 69 45.4 | 42 55 | 1673 | 1325 | 118.9 | 635.2 | 546.2 | 599.6 | 35.5 | −53.4 |
| 112 | 69 50.6 | 42 58 | 1736 | 1284 | 122.7 | 658.5 | 559.5 | 604.7 | 53.7 | −45.2 |
| 122 | 70 01.1 | 43 06 | 1853 | 1568 | 092.4 | 664.3 | 573.3 | 615.0 | 49.3 | −41.7 |
| Z 2 | 70 02.0 | 43 08 | 1866 | | 090.7 | 666.5 | | 615.8 | 50.7 | |
| 4 | 70 03.0 | 43 10 | 1886 | | 084.7 | 666.7 | | 616.8 | 49.9 | |
| 6 | 70 03.9 | 43 11 | 1903 | | 075.4 | 662.7 | | 617.7 | 45.0 | |
| 8 | 70 04.8 | 43 13 | 1909 | | 070.2 | 659.3 | | 618.5 | 40.8 | |
| 10 | 70 05.8 | 43 14 | 1911 | | 067.8 | 657.5 | | 619.5 | 38.0 | |
| 12 | 70 06.7 | 43 16 | 1921 | | 060.2 | 653.0 | | 620.4 | 32.7 | |
| 14 | 70 07.6 | 43 18 | 1919 | | 065.8 | 658.0 | | 621.2 | 36.7 | |

| Station No. | Latitude | Longitude | Elevation | Thickness of ice | g(mgal) | $g_o$(mgal) | $g_o''$(mgal) | $\gamma_0$(mgal) | $\Delta g_o$ (mgal) | $\Delta g_o''$ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | m | m | | | | | | |
| Z 16 | 70°08.6′ S | 43°19′ E | 1927 | | 982 071.8 | 982 666.5 | | 982 622.2 | 44.3 | |
| 35 | 70 17.7 | 43 34 | 2012 | | 045.0 | 665.9 | | 631.0 | 35.0 | |
| 37 | 70 18.6 | 43 35 | 2014 | | 043.6 | 665.2 | | 631.8 | 33.3 | |
| 39 | 70 19.6 | 43 36 | 2021 | | 034.2 | 657.9 | | 632.8 | 25.1 | |
| 41 | 70 20.5 | 43 38 | 2018 | | 030.3 | 653.0 | | 633.6 | 19.4 | |
| 43 | 70 21.4 | 43 40 | 2017 | | 028.3 | 650.8 | | 634.5 | 16.3 | |
| 47 | 70 22.4 | 43 41 | 2025 | | 023.8 | 648.7 | | 635.4 | 13.3 | |
| 51 | 70 23.4 | 43 43 | 2020 | | 028.0 | 651.4 | | 636.4 | 15.0 | |
| 55 | 70 24.3 | 43 44 | 2026 | | 028.2 | 653.4 | | 637.3 | 16.2 | |
| 59 | 70 25.2 | 43 46 | 2035 | | 023.1 | 651.1 | | 638.1 | 12.9 | |
| 63 | 70 26.2 | 43 48 | 2044 | | 015.3 | 646.0 | | 639.1 | 7.0 | |
| 67 | 70 27.1 | 43 49 | 2056 | | 005.8 | 640.3 | | 639.9 | 0.4 | |
| 70 | 70 27.8 | 43 50 | 2059 | | 000.1 | 635.5 | | 640.6 | − 5.1 | |
| 72 | 70 28.7 | 43 52 | 2064 | | 981 992.2 | 629.2 | | 641.5 | −12.3 | |
| 74 | 70 29.7 | 43 53 | 2078 | | 982.6 | 623.9 | | 642.4 | −18.5 | |
| 76 | 70 30.5 | 43·55 | 2074 | | 980.4 | 620.4 | | 643.2 | −22.7 | |
| 78 | 70 31.3 | 43 57 | 2078 | | 982.6 | 623.8 | | 643.9 | −20.1 | |
| 80 | 70 32.2 | 43 58 | 2091 | | 982.2 | 627.5 | | 644.8 | −17.3 | |
| 82 | 70 33.0 | 44.00 | 2096 | | 985.9 | 632.7 | | 645.5 | −12.9 | |
| 84 | 70 33.8 | 44 02 | 2094 | | 993.1 | 639.4 | | 646.3 | − 6.9 | |
| 86 | 70 34.6 | 44 04 | 2096 | | 982 000.5 | 647.3 | | 647.0 | 0.3 | |
| 88 | 70 35.4 | 44 05 | 2103 | | 005.3 | 654.3 | | 647.8 | 6.5 | |
| 90 | 70 36.3 | 44 06 | 2111 | | 006.7 | 658.1 | | 648.7 | 9.5 | |
| 92 | 70 37.2 | 44 08 | 2119 | | 005.5 | 659.4 | | 649.5 | 9.9 | |
| 94 | 70 38.0 | 44 10 | 2125 | | 004.9 | 660.7 | | 650.3 | 10.4 | |
| 96 | 70 38.8 | 44 11 | 2131 | | 004.8 | 662.4 | | 651.0 | 11.4 | |
| 98 | 70 39.6 | 44 13 | 2138 | | 001.3 | 661.1 | | 651.8 | 9.3 | |
| 100 | 70 40.5 | 44 14 | 2138 | 2074 | 002.7 | 662.5 | 982 577.1 | 652.6 | 9.9 | −75.5 |
| 102 | 70 41.3 | 44 15 | 2149 | | 001.1 | 664.2 | | 653.4 | 10.9 | |
| 104 | 70 42.1 | 44 17 | 2165 | | 981 997.8 | 665.9 | | 654.1 | 11.8 | |
| Mizuho Camp | 70 42.1 | 44 18 | 2169 | 2095 | 996.7 | 666.0 | 578.7 | 654.1 | 11.9 | −75.4 |
| Y 5 | 70 43.8 | 44 24 | 2202 | 2117 | 989.4 | 669.0 | 579.6 | 655.7 | 13.2 | −76.1 |
| 10 | 70 45.6 | 44 30 | 2227 | | 983.9 | 671.2 | | 657.4 | 13.7 | |

| Station No. | Latitude | Longitude | Elevation | Thickness of ice | g( mgal) | $g_o$ (mgal) | $g_o''$ (mgal) | % (mgal) | $\Delta g_o$ (mgal) | $\Delta g_o''$ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | m | m | | | | | | |
| Y 15 | 70° 4 7.4′ S | 44 °37′ E | 2249 | | 981 976.0 | 982 670.0 | | 982 659.1 | 10.9 | |
| 20 | 70 49.2 | 44 44 | 2272 | | 965.8 | 667.0 | | 660.8 | 6.1 | |
| 25 | 70 51.0 | 44 51 | 2286 | | 969.1 | 674.6 | | 662.5 | 12.1 | |
| 30 | 70 52.7 | 44 57 | 2314 | | 963.3 | 677.4 | | 664.1 | 13.3 | |
| 35 | 70 54.2 | 45 05 | 2342 | | 956.5 | 679.3 | | 665.5 | 13.8 | |
| 40 | 70 56.0 | 45 11 | 2359 | | 951.2 | 679.2 | | 667.2 | 12.0 | |
| 50 | 70 59.3 | 45 25 | 2395 | | 945.7 | 684.8 | | 670.2 | 14.5 | |
| 55 | 71. 01.0 | 45 31 | 2416 | | 943.3 | 688.9 | | 671.8 | 17.1 | |
| 60 | 71 02.6 | 45 38 | 2438 | | 933.6 | 686.0 | | 673.3 | 12.6 | |
| 65 | 71 04.5 | 45 45 | 2444 | | 934.8 | 689.0 | | 675.1 | 14.0 | |
| 70 | 71 06.0 | 45 51 | 2463 | | 931.9 | 692.0 | | 676.4 | 15.5 | |
| 75 | 71 07.7 | 45 58 | 2478 | | 924.6 | 689.3 | | 678.0 | 11.3 | |
| 80 | 71 09.4 | 46 05 | 2490 | | 921.5 | 689.9 | | 679.6 | 10.3 | |
| 85 | 71 11.1 | 46 12 | 2511 | | 914.7 | 689.6 | | 681.2 | 8.4 | |
| 90 | 71 12.6 | 46 19 | 2523 | | 908.7 | 687.3 | | 682.6 | 4.7 | |
| 95 | 71 14.3 | 46 25 | 2535 | | 905.4 | 687.7 | | 684.1 | 3.6 | |
| 100 | 71 15.9 | 46 32 | 2545 | | 903.1 | 688.5 | | 685.6 | 2.9 | |
| 105 | 71 17.5 | 46 40 | 2562 | | 899.0 | 689.6 | | 687.0 | 2.6 | |
| 110 | 71 19.1 | 46 46 | 2579 | | 890.8 | 686.7 | | 688.5 | −1.8 | |
| 120 | 71 21.8 | 47 01 | 2603 | | 886.1 | 689.4 | | 691.0 | −1.6 | |
| 125 | 71 23.4 | 47 08 | 2609 | | 886.0 | 691.1 | | 692.4 | −1.4 | |
| 130 | 71 25.1 | 47 15 | 2622 | | 888.1 | 697.3 | | 694.0 | 3.3 | |
| 135 | 71 26.8 | 47 22 | 2644 | | 879.2 | 695.2 | | 695.6 | −0.4 | |
| 140 | 71 28.4 | 47 29 | 2655 | | 876.2 | 695.5 | | 697.0 | −1.5 | |
| 145 | 71 30.0 | 47 36 | 2675 | | 869.9 | 695.4 | | 698.5 | −3.1 | |
| 150 | 71 31.5 | 47 43 | 2693 | | 864.2 | 695.3 | | 699.8 | −4.5 | |
| 155 | 71 33.1 | 47 50 | 2702 | | 858.0 | 691.9 | | 701.3 | −9.4 | |
| 160 | 71 34.7 | 47 57 | 2707 | | 859.1 | 694.4 | | 702.7 | −8.3 | |
| 165 | 71 36.2 | 48 04 | 2719 | | 858.7 | 697.8 | | 704.1 | −6.3 | |
| 170 | 71 37.4 | 48 12 | 2720 | | 870.8 | 710.2 | | 705.2 | 5.0 | |
| 175 | 71 39.0 | 48 19 | 2769 | | 849.4 | 703.9 | | 706.6 | −2.7 | |
| 180 | 71 40.5 | 48 26 | 2777 | | 838.9 | 695.9 | | 708.0 | −12.1 | |
| 185 | 71 41.9 | 48 34 | 2778 | | 844.3 | 701.6 | | 709.2 | −7.6 | |

| Station No. | Latitude | Longitude | Elevation | Thickness of ice | g( mgal) | $g_o$(mgal) | $g_o''$(mgal) | $\gamma_0$ (mgal) | $\Delta g_o$ (mgal) | $\Delta g_o''$ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| Y 190 | 71° 43.4′ S | 48° 41′ E | 2809m | m | 981 834.1 | 982 701.0 | | 982 710.6 | − 9.6 | |
| 195 | 71 44.9 | 48 48 | 2815 | | 830.0 | 698.8 | | 711.9 | −13.2 | |
| 200 | 71 46.2 | 48° 56 | 2819 | | 836.4 | 706.3 | | 713.1 | − 6.8 | |
| 205 | 71 43.6 | 48 59 | 2813 | | 831.7 | 699.8 | | 710.8 | −11.0 | |
| 210 | 71 41.1 | 49° 02 | 2807 | | 839.7 | 706.0 | | 708.5 | − 2.5 | |
| 215 | 71 38.6 | 49 04 | 2794 | | 834.9 | 697.1 | | 706.2 | − 9.1 | |
| 220 | 71 36.0 | 49 07 | 2792 | | 834.1 | 695.7 | | 703.9 | − 8.2 | |
| 225 | 71 33.3 | 49 09 | 2785 | | 830.5 | 689.9 | | 701.5 | −11.5 | |
| 230 | 71 30.7 | 49 11 | 2774 | | 833.7 | 689.7 | | 699.1 | − 9.4 | |
| 235 | 71 28.2 | 49 14 | 2764 | | 832.5 | 685.5 | | 696.8 | −11.3 | |
| 240 | 71 25.5 | 49 17 | 2759 | | 833.5 | 684.9 | | 694.4 | − 9.4 | |
| 250 | 71 20.4 | 49 23 | 2733 | | 853.7 | 697.1 | | 689.7 | 7.4 | |
| 255 | 71 17.8 | 49 26 | 2720 | | 860.3 | 699.7 | | 687.3 | 12.4 | |
| 260 | 71 15.1 | 49 28 | 2699 | | 874.0 | 706.9 | | 684.8 | 22.0 | |
| 265 | 71 12.5 | 49 31 | 2679 | | 877.0 | 703.8 | | 682.4 | 21.3 | |
| 270 | 71 10.0 | 49 34 | 2676 | | 862.2 | 688.0 | | 680.2 | 7.8 | |
| 275 | 71 07.8 | 49 39 | 2672 | | 859.2 | 683.8 | | 678.1 | 5.7 | |
| 280 | 71 05.2 | 49 42 | 2666 | | 873.4 | 696.1 | | 675.7 | 20.4 | |
| 285 | 71 02.6 | 49 45 | 2648 | | 899.5 | 716.7 | | 673.3 | 43.4 | |
| 290 | 71 00.0 | 49 48 | 2635 | | 897.5 | 710.6 | | 670.9 | 39.7 | |
| 295 | 70 57.5 | 49 50 | 2643 | 1924 | 894.8 | 710.4 | 982 557.5 | 668.6 | 41.8 | −111.1 |
| 300 | 70 54.9 | 49 53 | 2629 | | 895.0 | 706.3 | | 666.1 | 40.2 | |
| 305 | 70 52.4 | 49 56 | 2616 | | 899.7 | 707.0 | | 663.8 | 43.2 | |
| 310 | 70 49.8 | 49 59 | 2620 | 1710 | 904.3 | 712.8 | 546.6 | 661.4 | 51.4 | −114.8 |
| 315 | 70 47.3 | 50 02 | 2601 | 1813 | 916.4 | 719.1 | 562.5 | 659.0 | 60.1 | − 96.5 |
| 320 | 70 44.6 | 50 05 | 2604 | 2095 | 889.0 | 692.6 | 556.6 | 656.5 | 36.1 | − 99.9 |
| 325 | 70 42.0 | 50 08 | 2591 | 1496 | 879.2 | 678.8 | 499.8 | 654.0 | 24.7 | −154.2 |
| 330 | 70 39.5 | 50 11 | 2585 | | 876.1 | 673.8 | | 651.7 | 22.2 | |
| 335 | 70 36.9 | 50 13 | 2577 | | 875.2 | 670.5 | | 649.2 | 21.3 | |
| 340 | 70 34.2 | 50 16 | 2568 | | 876.0 | 668.5 | | 646.7 | 21.8 | |
| 345 | 70 31.6 | 50 19 | 2555 | | 876.3 | 664.8 | | 644.2 | 20.6 | |
| 350 | 70 29.1 | 50 22 | 2541 | | 878.7 | 662.8 | | 641.8 | 21.0 | |
| 355 | 70 26.6 | 50 25 | 2532 | | 874.9 | 656.3 | | 639.5 | 16.8 | |

| Station No. | Latitude | Longitude | Elevation | Thickness of ice | g(mgal) | $g_o$(mgal) | $g_o^*$(mgal) | $\gamma_o$(mgal) | $\Delta g_o$ (mgal) | $\Delta g_o^*$ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | m | m | | | | | | |
| Y360 | 70° 24.0′ S | 50° 28′ E | 2527 | | 981 870.9 | 982 650.7 | | 982 637.0 | 13.8 | |
| 365 | 70 21.4 | 50 30 | 2514 | | 871.7 | 647.5 | | 634.5 | 13.0 | |
| 370 | 70 18.8 | 50 33 | 2503 | 2266 | 874.5 | 647.0 | 982 535.0 | 632.0 | 15.0 | −97.0 |
| 375 | 70 16.0 | 50 34 | 2491 | | 877.2 | 645.9 | | 629.3 | 16.6 | |
| 380 | 70 13.4 | 50 36 | 2475 | | 890.5 | 654.3 | | 626.8 | 27.4 | |
| 385 | 70 10.8 | 50 39 | 2460 | | 906.3 | 665.4 | | 624.3 | 41.1 | |
| 390 | 70 08.2 | 50 41 | 2433 | | 921.9 | 672.8 | | 621.8 | 50.9 | |
| 400 | 70 02.9 | 50 44 | 2399 | | 918.4 | 658.7 | | 616.7 | 42.0 | |
| 405 | 70 00.3 | 50 46 | 2388 | 2180 | 916.0 | 652.9 | 547.5 | 614.2 | 38.8 | −66.7 |
| 410 | 69 57.7 | 50 48 | 2366 | | 910.2 | 640.3 | | 611.6 | 28.7 | |
| 420 | 69 52.4 | 50 52 | 2344 | | 904.4 | 627.8 | | 606.5 | 21.3 | |
| 425 | 69 49.8 | 50 55 | 2335 | | 897.6 | 618.2 | | 604.0 | 14.3 | |
| 430 | 69 47.1 | 50 57 | 2322 | | 898.3 | 614.9 | | 601.3 | 13.6 | |
| 435 | 69 44.5 | 50 59 | 2317 | | 900.0 | 615.0 | | 598.8 | 16.2 | |
| 440 | 69 41.9 | 51 01 | 2306 | 2138 | 907.3 | 619.0 | 519.5 | 596.2 | 22.7 | −76.7 |
| 445 | 69 39.3 | 51 03 | 2293 | | 906.8 | 614.4 | | 593.6 | 20.7 | |
| 450 | 69 36.7 | 51 05 | 2271 | | 904.2 | 605.0 | | 591.1 | 14.0 | |
| 455 | 69 34.1 | 51 07 | 2236 | | 898.3 | 588.4 | | 588.5 | −0.2 | |
| 460 | 69 31.4 | 51 09 | 2219 | | 896.4 | 581.1 | | 585.9 | −4.7 | |
| 465 | 69 28.8 | 51 11 | 2208 | | 900.0 | 581.4 | | 583.3 | −1.9 | |
| 470 | 69 26.1 | 51 14 | 2204 | | 902.0 | 582.1 | | 580.6 | 1.5 | |
| 475 | 69 23.5 | 51 16 | 2181 | 2032 | 907.2 | 580.2 | 487.0 | 578.0 | 2.2 | −91.0 |
| 480 | 69 20.9 | 51 18 | 2191 | | 922.0 | 598.1 | | 575.4 | 22.7 | |
| 485 | 69 18.3 | 51 20 | 2168 | | 936.4 | 605.5 | | 572.8 | 32.6 | |
| 490 | 69 15.9 | 51 22 | 2118 | | 944.0 | 597.6 | | 570.4 | 27.2 | |
| 495 | 69 13.3 | 51 24 | 2119 | | 949.4 | 603.3 | | 567.8 | 35.5 | |
| 500 | 69 10.6 | 51 26 | 2126 | | 960.0 | 616.1 | | 565.1 | 51.0 | |
| 510 | 69 05.3 | 51 30 | 2108 | 992 | 982 007.4 | 657.9 | 495.6 | 559.8 | 98.1 | −64.2 |
| 515 | 69 02.7 | 51 32 | 2091 | | 981 986.0 | 631.2 | | 557.2 | 74.1 | |
| 520 | 69 00.3 | 51 35 | 2092 | | 965.8 | 611.4 | | 554.8 | 56.7 | |
| 525 | 68 59.2 | 51 41 | 2107 | | 933.9 | 584.1 | | 553.6 | 30.5 | |
| 530 | 68 58.2 | 51 48 | 2118 | | 931.9 | 585.5 | | 552.6 | 32.9 | |
| 535 | 68 55.5 | 51 49 | 2106 | 1043 | 911.0 | 560.9 | 402.6 | 549.9 | 11.0 | −147.3 |

| Station No. | Latitude | Longitude | Elevation | Thickness of ice | g(mgal) | $g_o$(mgal) | $g_o''$(mgal) | $\gamma_o$(mgal) | $\Delta g_o$ (mgal) | $\Delta g_o''$ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | m | m | | | | | | |
| Y540 | 68°52.9′S | 51° 51′E | 2097 | | 981 904.2 | 982 551.4 | | 982 547.3 | 4.1 | |
| 545 | 68 50.3 | 51 53 | 2099 | | 911.9 | 559.6 | | 544.6 | 15.0 | |
| 550 | 68 47.6 | 51 54 | 2095 | | 920.0 | 566.6 | | 541.9 | 24.7 | |
| 560 | 68 42.4 | 52 00 | 2074 | | 924.5 | 564.5 | | 536.6 | 28.0 | |
| 570 | 68 37.9 | 52 05 | 2057 | | 982 004.8 | 639.6 | | 532.0 | 107.6 | |
| 573 | 68 37.0 | 52 06 | 2052 | | 018.2 | 651.5 | | 531.1 | 120.4 | |
| W 1 | 68 38.4 | 52 02 | 2061 | | 981 977.9 | 613.8 | | 532.5 | 81.3 | |
| 2 | 68 39.7 | 51 56 | 2068 | | 938.4 | 576.6 | | 533.8 | 42.8 | |
| 4 | 68 42.1 | 51 47 | 2067 | | 928.8 | 566.6 | | 536.3 | 30.4 | |
| 5 | 68 42.9 | 51 43 | 2064 | | 936.5 | 573.4 | | 537.1 | 36.3 | |
| 6 | 68 43.6 | 51 41 | 2063 | | 941.7 | 578.3 | | 537.8 | 40.5 | |
| 7 | 68 45.1 | 51 36 | 2051 | 1693 | 948.1 | 581.1 | 982 477.1 | 539.3 | 41.7 | −62.2 |
| 8 | 68 45.6 | 51 34 | 2045 | | 949.5 | 580.6 | | 539.8 | 40.7 | |
| 9 | 68 47.1 | 51 28 | 2032 | | 950.4 | 577.5 | | 541.4 | 36.1 | |
| 10 | 68 47.7 | 51 25 | 2019 | | 958.2 | 581.2 | | 542.0 | 39.3 | |
| 11 | 68 48.6 | 51 23 | 2011 | | 964.0 | 584.6 | | 542.9 | 41.7 | |
| 13 | 68 51.2 | 51 13 | 1962 | 1539 | 962.1 | 567.6 | 462.3 | 545.6 | 22.0 | −83.3 |
| 14 | 68 52.1 | 51 11 | 1959 | | 961.8 | 566.3 | | 546.5 | 19.8 | |
| 16 | 68 54.8 | 51 00 | 1932 | | 967.2 | 563.4 | | 549.2 | 14.2 | |
| 17 | 68 55.7 | 50 59 | 1939 | | 966.6 | 565.0 | | 550.1 | 14.9 | |
| 18 | 68 56.8 | 50 57 | 1936 | | 973.5 | 570.9 | | 551.2 | 19.7 | |
| 19 | 68 58.7 | 50 51 | 1943 | 1419 | 982.1 | 581.7 | 469.6 | 553.2 | 28.5 | −83.6 |
| 20 | 68 59.6 | 50 43 | 1907 | 1146 | 997.9 | 586.4 | 458.1 | 554.1 | 32.4 | −96.0 |
| 21 | 69 00.2 | 50 42 | 1906 | 1317 | 994.9 | 583.0 | 467.5 | 554.7 | 28.4 | −87.2 |
| 22 | 69 01.5 | 50 39 | 1909 | 1334 | 989.3 | 578.4 | 463.8 | 556.0 | 22.5 | −92.2 |
| 23 | 69 02.8 | 50 33 | 1890 | 1488 | 986.4 | 569.7 | 468.6 | 557.3 | 12.4 | −88.7 |
| 24 | 69 03.6 | 50 31 | 1885 | | 979.9 | 561.6 | | 558.1 | 3.6 | |
| 25 | 69 05.4 | 50 25 | 1883 | | 961.2 | 542.3 | | 559.9 | −17.6 | |
| 26 | 69 05.9 | 50 22 | 1881 | | 965.9 | 546.4 | | 560.4 | −14.1 | |
| 27 | 69 07.1 | 50 19 | 1877 | 1967 | 963.6 | 542.8 | 478.7 | 561.6 | −18.8 | −82.9 |
| 28 | 69 07.9 | 50 18 | 1871 | | 960.9 | 538.2 | | 562.3 | −24.1 | |
| 29 | 69 09.4 | 50 14 | 1856 | 2095 | 964.3 | 537.1 | 484.7 | 563.9 | −26.9 | −79.2 |
| 30 | 69 11.1 | 50 09 | 1847 | 1539 | 989.1 | 559.1 | 466.6 | 565.6 | − 6.5 | −99.0 |

| Station No. | Latitude | Longitude | Elevation | Thickness of ice | g(mgal) | $g_o$(mgal) | $g_o''$(mgal) | $\gamma_0$(mgal) | $\Delta g_o$ (mgal) | $\Delta g_o''$ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | m | m | | | | | | |
| W 31 | 69°12.7′S | 50°05′E | 1858 | | 981 990.2 | 982 563.5 | | 982 567.2 | − 3.7 | |
| 32 | 69 14.3 | 49 59 | 1859 | | 978.5 | 552.2 | | 568.8 | −16.7 | |
| 33 | 69 16.5 | 49 53 | 1851 | 2018 | 977.2 | 548.4 | 982 491.0 | 571.0 | −22.6 | −80.0 |
| 34 | 69 18.1 | 49 46 | 1864 | | 954.0 | 529.2 | | 572.6 | −43.4 | |
| 35 | 69 19.0 | 49 43 | 1873 | 2138 | 953.4 | 531.4 | 480.4 | 573.5 | −42.1 | −93.1 |
| 36 | 69 19.7 | 49 41 | 1872 | 2223 | 954.0 | 531.7 | 487.1 | 574.2 | −42.5 | −87.1 |
| 37 | 69 20.9 | 49 37 | 1868 | 2009 | 957.9 | 534.3 | 474.4 | 575.4 | −41.1 | −101.0 |
| 38 | 69 21.4 | 49 36 | 1864 | | 957.6 | 532.8 | | 575.9 | −43.1 | |
| 39 | 69 22.8 | 49 30 | 1835 | | 958.5 | 524.8 | | 577.3 | −52.5 | |
| 40 | 69 23.3 | 49 28 | 1840 | 2245 | 961.1 | 528.9 | 489.6 | 577.8 | −48.9 | −88.2 |
| 41 | 69 25.5 | 49 21 | 1833 | 1753 | 976.1 | 541.7 | 466.7 | 580.0 | −38.3 | −113.3 |
| 42 | 69 28.3 | 49 17 | 1887 | 1753 | 962.4 | 544.8 | 463.7 | 582.8 | −38.0 | −119.1 |
| 43 | 69 28.9 | 49 13 | 1885 | 2095 | 949.7 | 531.4 | 475.9 | 583.4 | −52.0 | −107.5 |
| 44 | 69 30.8 | 49 08 | 1880 | 2160 | 933.4 | 513.6 | 463.5 | 585.3 | −71.7 | −121.8 |
| 45 | 69 31.3 | 48 59 | 1879 | | 892.5 | 472.4 | | 585.8 | −113.4 | |
| 46 | 69 32.5 | 48 56 | 1897 | | 893.6 | 479.0 | | 586.9 | −107.9 | |
| 47 | 69 34.4 | 48 47 | 1959 | 2608 | 913.4 | 518.0 | 492.2 | 588.8 | −70.9 | −96.6 |
| 48 | 69 34.9 | 48 46 | 1967 | 2736 | 914.2 | 521.2 | 504.1 | 589.3 | −68.1 | −85.2 |
| 49 | 69 36.3 | 48 40 | 1967 | 2394 | 933.3 | 540.3 | 497.8 | 590.7 | −50.4 | −92.9 |
| 50 | 69 37.9 | 48 32 | 1999 | 2288 | 944.8 | 561.7 | 507.8 | 592.3 | −30.6 | −84.5 |
| 51 | 69 38.7 | 48 25 | 2019 | | 953.2 | 576.2 | | 593.1 | −16.8 | |
| 52 | 69 39.7 | 48 19 | 2060 | 1881 | 967.4 | 603.1 | 512.2 | 594.0 | 9.1 | −81.8 |
| 53 | 69 40.0 | 48 15 | 2081 | | 997.0 | 639.2 | | 594.3 | 44.8 | |
| 54 | 69 40.0 | 48 14 | 2083 | 2245 | 964.1 | 606.9 | 540.3 | 594.3 | 12.5 | −54.0 |
| 55 | 69 41.4 | 48 10 | 2107 | 2245 | 964.5 | 614.8 | 545.6 | 595.7 | 19.0 | −50.1 |
| 205 | 69 44.0 | 48 04 | 2128 | | 981.8 | 638.4 | | 598.3 | 40.2 | |
| 210 | 69 46.0 | 47 58 | 2192 | | 963.3 | 639.7 | | 600.2 | 39.5 | |
| 215 | 69 48.1 | 47 52 | 2211 | | 955.4 | 637.7 | | 602.3 | 35.5 | |
| 220 | 69 50.0 | 47 46 | 2248 | 1710 | 949.8 | 643.5 | 518.8 | 604.1 | 39.4 | −85.3 |
| 225 | 69 51.7 | 47 40 | 2255 | 1283 | 956.4 | 652.3 | 495.2 | 605.8 | 46.5 | −110.6 |
| 230 | 69 53.7 | 47 34 | 2254 | 2095 | 917.4 | 612.9 | 516.2 | 607.8 | 5.2 | −91.6 |
| 235 | 69 55.7 | 47 28 | 2277 | | 917.2 | 619.9 | | 609.7 | 10.2 | |
| 240 | 69 57.7 | 47 22 | 2285 | | 934.9 | 640.1 | | 611.6 | 28.4 | |

| Station No. | Latitude | Longitude | Elevation | Thickness of ice | g(mgal) | $g_o$(mgal) | $g_o^*$(mgal) | $\gamma_0$(mgal) | $\Delta g_o$ (mgal) | $\Delta g_o^*$ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | m | m | | | | | | |
| W245 | 69°59.7′S | 47°16′E | 2298 | 2309 | 981 921.1 | 982 630.3 | 982 544.4 | 982 613.6 | 16.7 | −69.2 |
| 250 | 70°01.6 | 47 10 | 2312 | | 914.4 | 627.8 | | 615.4 | 12.4 | |
| 255 | 70 03.6 | 47 04 | 2316 | | 932.3 | 647.0 | | 617.4 | 29.6 | |
| 260 | 70 05.5 | 46 58 | 2338 | | 949.1 | 670.6 | | 619.2 | 51.4 | |
| 265 | 70 07.4 | 46 52 | 2342 | | 937.1 | 659.8 | | 621.0 | 38.8 | |
| 270 | 70 09.4 | 46 46 | 2339 | | 920.7 | 642.6 | | 623.0 | 19.6 | |
| 275 | 70 11.3 | 46 40 | 2340 | | 916.8 | 638.9 | | 624.8 | 14.1 | |
| 280 | 70 13.3 | 46 34 | 2344 | | 908.4 | 631.8 | | 626.7 | 5.0 | |
| 290 | 70 17.0 | 46 23 | 2337 | | 903.7 | 624.9 | | 630.3 | − 5.4 | |
| 295 | 70 18.9 | 46 17 | 2330 | | 908.5 | 627.5 | | 632.1 | − 4.6 | |
| 300 | 70 20.6 | 46 11 | 2322 | | 917.1 | 633.6 | | 633.7 | − 0.1 | |
| 305 | 70 22.4 | 46 05 | 2313 | | 922.3 | 636.1 | | 635.4 | 0.6 | |
| 310 | 70 24.3 | 45 59 | 2301 | | 931.7 | 641.8 | | 637.3 | 4.5 | |
| 315 | 70 26.1 | 45 53 | 2288 | | 933.2 | 639.2 | | 639.0 | 0.3 | |
| 320 | 70 28.0 | 45 47 | 2291 | | 937.7 | 644.7 | | 640.8 | 3.9 | |
| 325 | 70 29.4 | 45 40 | 2291 | | 942.2 | 649.2 | | 642.1 | 7.1 | |
| 330 | 70 30.7 | 45 32 | 2287 | | 942.5 | 648.2 | | 643.4 | 4.9 | |
| 335 | 70 32.0 | 45 24 | 2288 | | 950.6 | 656.7 | | 644.6 | 12.1 | |
| 340 | 70 33.4 | 45 16 | 2278 | | 956.7 | 659.6 | | 645.9 | 13.7 | |
| 345 | 70 34.8 | 45 09 | 2265 | | 957.6 | 656.6 | | 647.2 | 9.4 | |
| 350 | 70 36.0 | 45 01 | 2252 | | 964.9 | 659.9 | | 648.4 | 11.5 | |
| 360 | 70 38.5 | 44 46 | 2223 | | 976.9 | 662.9 | | 650.7 | 12.1 | |
| 365 | 70 39.8 | 44 38 | 2221 | | 977.9 | 663.3 | | 652.0 | 11.3 | |
| 370 | 70 41.0 | 44 31 | 2209 | 2223 | 985.0 | 666.7 | 584.4 | 653.1 | 13.6 | −68.7 |
| 375 | 70 42.2 | 44 23 | 2199 | 2266 | 988.5 | 667.1 | 589.1 | 654.2 | 12.8 | −65.1 |
| X 1 | 70 42.1 | 44 14 | 2143 | | 998.0 | 659.3 | | 654.1 | 5.2 | |
| 2 | 70 42.2 | 44 11 | 2138 | | 994.6 | 654.3 | | 654.2 | 0.1 | |
| 4 | 70 42.8 | 44 04 | 2116 | | 982 005.4 | 658.4 | | 654.8 | 3.5 | |
| 6 | 70 43.4 | 43 56 | 2111 | | 981 995.8 | 647.2 | | 655.4 | − 8.1 | |
| 8 | 70 44.0 | 43 49 | 2097 | 2009 | 982 012.1 | 659.2 | 573.6 | 655.9 | 3.3 | −82.3 |
| 10 | 70 44.7 | 43 42 | 2094 | | 008.3 | 654.5 | | 656.6 | − 2.1 | |
| 12 | 70 45.7 | 43 35 | 2087 | | 009.4 | 653.4 | | 657.5 | − 4.1 | |
| 14 | 70 46.4 | 43 27 | 2069 | 1231 | 009.8 | 648.3 | 508.1 | 658.2 | − 9.9 | −150.1 |

| Station No. | Latitude | Longitude | Elevation | Thickness of ice | g(mgal) | $g_o$(mgal) | $g_o^*$(mgal) | $\gamma_o$(mgal) | $\Delta g_o$ (mgal) | $\Delta g_o^*$ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| X 16 | 70°47.1′S | 43°20′E | 2064 m | 1129 m | 982 010.8 | 982 647.8 | 982 500.6 | 982 658.8 | −11.0 | −158.2 |
| 18 | 70 47.8 | 43 13 | 2055 | 2138 | 026.0 | 660.2 | 588.8 | 659.5 | 0.7 | −70.7 |
| S169 | 70 49.4 | 43 07 | 2035 | 2309 | 033.4 | 661.4 | 605.0 | 661.0 | 0.4 | −56.0 |
| 165 | 70 45.3 | 43 07 | 2035 | 2146 | 030.7 | 658.7 | 590.2 | 657.2 | 1.6 | −67.0 |
| 160 | 70 40.2 | 43 06 | 2008 | | 016.6 | 636.2 | | 652.4 | −16.1 | |
| 155 | 70 35.0 | 43 05 | 1992 | | 033.4 | 648.1 | | 647.4 | 0.7 | |
| 150 | 70 30.0 | 43 04 | 1971 | | 036.4 | 644.7 | | 642.7 | 2.0 | |
| 140 | 70 19.8 | 43 06 | 1934 | | 049.6 | 646.4 | | 633.0 | 13.4 | |
| 130 | 70 09.5 | 43 06 | 1900 | | 069.6 | 656.0 | | 623.1 | 32.9 | |

## Sandercock Nunataks

| Station No. | Latitude | Longitude | Elevation | Thickness of ice | g(mgal) | $g_o$(mgal) | $g_o^*$(mgal) | $\gamma_o$(mgal) | $\Delta g_o$ (mgal) | $\Delta g_o^*$ (mgal) |
|---|---|---|---|---|---|---|---|---|---|---|
| W 0 | 68°36.7′S | 52°06′E | 2101 m | m | 982 021.4 | 982 669.7 | 982 434.6 | 982 530.8 | 139.0 | −96.1 |
| B | 68 33.6 | 52 07 | 2158 | | 981 998.9 | 664.8 | 423.3 | 527.6 | 137.2 | −104.3 |
| C | 68 36.4 | 52 06 | 2102 | | 982 016.4 | 665.1 | 429.9 | 530.4 | 134.7 | −100.6 |
| C3 | 68 37.0 | 52 07 | 2091 | | 026.0 | 671.2 | 437.3 | 531.1 | 140.2 | −93.8 |
| C4 | 68 37.5 | 52 08 | 2123 | | 018.4 | 673.7 | 436.1 | 531.6 | 142.1 | −95.5 |