

Measurement of Gravity along the Traverse Route Syowa—South Pole

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During the JARE South Pole Traverse 1968-69, gravity measurement was carried out with a LaCoste and Romberg gravimeter No. 118. Fig. 1 shows the locations of the observation stations at intervals of 4 to 8 km. The number of stations is as follows:

Stations where observation was made on the way to and from South Pole	201
Stations where observation was made on the one way only	441
Total	642

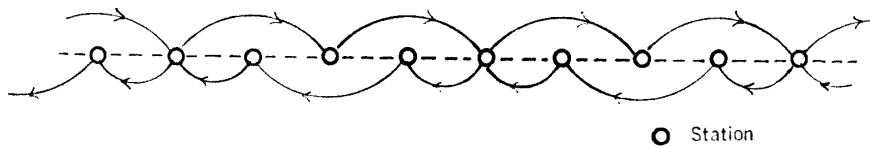


Fig. 1. Locations of the observation stations and method of observations.

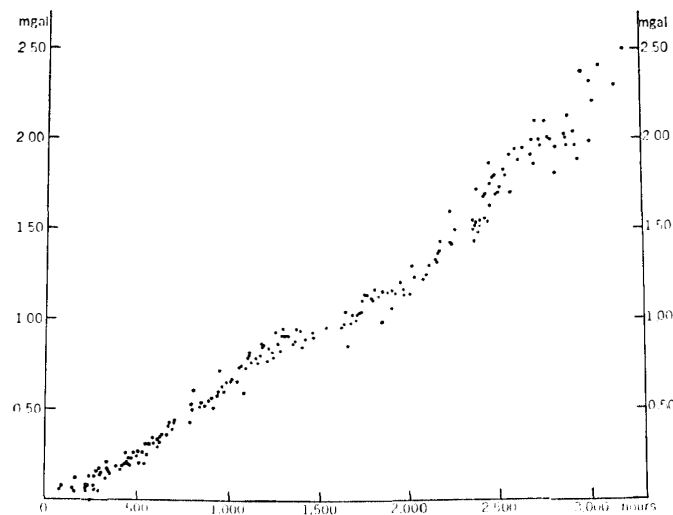


Fig. 2. Drift of gravimeter.

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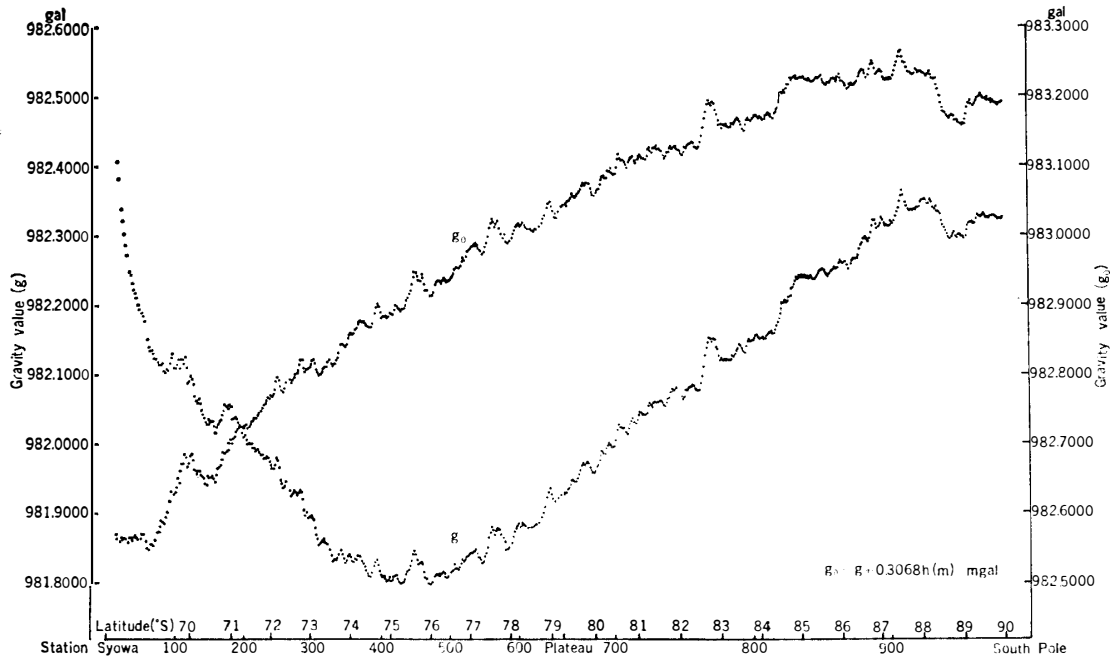


Fig. 3. Profiles of observed value (g) and free air reduction (g_0).

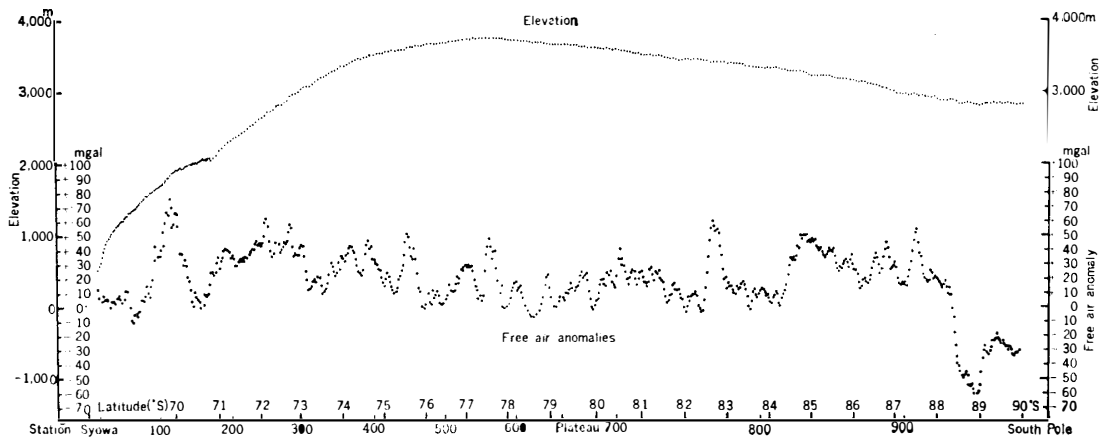


Fig. 4. Profiles of free air anomalies and elevation.

The observation was made placing the scaled disc directly on the snow surface just under the mark flag. The reading was taken as quick as possible in order to avoid the influence of the low temperature. During the trip, the electric power for the meter was supplied from the vehicle. Successive readings were taken during the camping.

The total drift during the whole period of the travel between Syowa Station

Table 1. Gravity values and free air anomalies at all stations in the JARE South Pole Traverse 1968-1969.

Station No.	Position		Elevation (m)	g (gal)	g_0 (gal)	γ_0 (gal)	Δg_0 (mgal)
	Latitude	Longitude					
Syowa St.	69°00'3 S	39°35'E	14.0	982.5394	982.5437	982.5548	-11.1
16	69 02.2	40 01	523	982.4083	982.5697	982.5567	+13.0
18	69 01.7	40 07	584	982.3830	982.5632	982.5562	+ 7.0
22	69 01.7	40 18	720	982.3389	982.5611	982.5562	+ 4.9
24	69 01.9	40 24	784	982.3229	982.5648	982.5564	+ 8.4
26	69 02.3	40 29	838	982.3040	982.5626	982.5568	+ 5.8
28	69 02.7	40 35	892	982.2879	982.5632	982.5572	+ 6.0
30	69 03.1	40 40	937	982.2741	982.5632	982.5576	+ 5.6
34	69 04.2	40 51	1006	982.2487	982.5592	982.5587	+ 0.5
36	69 04.8	40 56	1042	982.2424	982.5640	982.5593	+ 4.7
38	69 04.9	41 02	1073	982.2330	982.5641	982.5594	+ 4.7
40	69 04.7	41 07	1098	982.2236	982.5624	982.5592	+ 3.2
42	69 04.6	41 13	1128	982.2181	982.5662	982.5591	+ 7.1
44	69 04.3	41 18	1150	982.2121	982.5670	982.5588	+ 8.2
46	69 04.5	41 24	1178	982.2016	982.5651	982.5590	+ 6.1
48	69 04.2	41 29	1193	982.1943	982.5625	982.5587	+ 3.8
52	69 04.1	41 40	1214	982.1898	982.5644	982.5586	+ 5.8
54	69 04.1	41 46	1249	982.1848	982.5702	982.5586	+11.6
56	69 03.7	41 51	1268	982.1781	982.5694	982.5582	+11.2
60	69 04.6	42 02	1321	982.1518	982.5595	982.5591	+ 0.4
62	69 05.2	42 07	1327	982.1408	982.5503	982.5595	- 9.2
64	69 05.5	42 12	1343	982.1348	982.5492	982.5600	-10.8
66	69 05.9	42 18	1360	982.1358	982.5555	982.5604	- 4.9
68	69 06.2	42 23	1377	982.1310	982.5559	982.5607	- 3.8
70	69 06.9	42 29	1393	982.1242	982.5541	982.5614	- 3.3
72	69 09.0	42 30	1418	982.1237	982.5613	982.5635	- 2.2
76	69 13.1	42 32	1472	982.1185	982.5729	982.5675	+ 5.4
78	69 15.2	42 34	1487	982.1155	982.5744	982.5697	+ 4.7
80	69 17.3	42 35	1510	982.1145	982.5805	982.5716	+ 8.9
82	69 19.4	42 36	1529	982.1174	982.5892	982.5739	+15.3
84	69 21.5	42 38	1560	982.1059	982.5873	982.5760	+11.3
86	69 23.5	42 39	1558	982.1046	982.5854	982.5780	+ 7.4
88	69 25.6	42 41	1578	982.1082	982.5952	982.5801	+15.1
90	69 27.7	42 42	1604	982.1071	982.6021	982.5822	+19.9
94	69 31.9	42 45	1623	982.1175	982.6184	982.5864	+32.0
96	69 33.9	42 47	1639	982.1252	982.6310	982.5883	+42.7

Station No.	Position		Elevation (m)	g (gal)	g_0 (gal)	γ_0 (gal)	Δg_0 (mgal)
	Latitude	Longitude					
100	69°38'1 S	42°50' E	1675	982.1106	982.6275	982.5925	+35.0
102	69 40.1	42 51	1683	982.1105	982.6299	982.5944	+35.5
104	69 42.2	42 52	1697	982.1128	982.6365	982.5965	+40.0
106	69 44.3	42 54	1715	982.1221	982.6513	982.5986	+52.7
108	69 46.4	42 55	1730	982.1096	982.6435	982.6006	+42.9
110	69 48.5	42 56	1745	982.1234	982.6619	982.6027	+59.2
112	69 50.6	42 58	1779	982.1227	982.6717	982.6047	+67.0
114	69 52.7	43 00	1800	982.1167	982.6722	982.6068	+65.4
116	69 54.8	43 02	1812	982.1258	982.6850	982.6088	+76.2
118	69 56.9	43 03	1846	982.1116	982.6813	982.6109	+70.4
120	69 59.0	43 04	1875	982.0896	982.6682	982.6129	+55.3
122	70 01.1	43 06	1881	982.0921	982.6726	982.6149	+57.7
124	70 03.2	43 06	1893	982.0990	982.6832	982.6170	+66.2
126	70 05.2	43 07	1913	982.0941	982.6845	982.6189	+65.6
128	70 07.3	43 06	1915	982.0864	982.6774	982.6210	+56.4
130	70 09.5	43 06	1923	982.0696	982.6630	982.6255	+37.5
132	70 11.5	43 06	1942	982.0631	982.6624	982.6250	+37.4
134	70 13.5	43 06	1932	982.0601	982.6563	982.6269	+29.4
136	70 15.6	43 06	1933	982.0658	982.6623	982.6290	+33.3
138	70 17.7	43 06	1949	982.0587	982.6602	982.6310	+29.2
140	70 19.8	43 06	1961	982.0495	982.6547	982.6330	+21.7
142	70 21.9	43 06	1976	982.0436	982.6534	982.6350	+18.4
144	70 24.0	43 06	1982	982.0382	982.6498	982.6370	+12.8
146	70 26.1	43 06	1984	982.0311	982.6434	982.6390	+ 4.4
148	70 28.1	43 06	1987	982.0287	982.6419	982.6409	+ 1.0
150	70 30.0	43 04	2001	982.0360	982.6535	982.6427	+10.8
152	70 31.9	43 06	2001	982.0345	982.6520	982.6445	+ 7.5
154	70 34.0	43 05	2005	982.0337	982.6524	982.6465	+ 5.9
156	70 36.1	43 06	2005	982.0338	982.6525	982.6485	+ 4.0
158	70 38.2	43 06	2023	982.0259	982.6502	982.6505	- 0.3
160	70 40.2	43 06	2032	982.0166	982.6437	982.6524	- 8.7
162	70 42.3	43 06	2045	982.0250	982.6561	982.6543	+ 1.8
164	70 44.3	43 07	2060	982.0296	982.6653	982.6562	+ 9.1
166	70 46.4	43 07	2052	982.0336	982.6668	982.6582	+ 8.6
168	70 48.4	43 07	2054	982.0359	982.6698	982.6601	+ 9.7
170	70 50.5	43 07	2062	982.0423	982.6786	982.6620	+16.6
172	70 51.6	43 02	2069	982.0492	982.6877	982.6631	+24.6
174	70 52.8	42 57	2044	982.0574	982.6882	982.6642	+24.0

Station No.	Position		Elevation (m)	g (gal)	g_0 (gal)	γ_0 (gal)	Jg_0 (mgal)
	Latitude	Longitude					
176	70°54'8 S	42°56' E	2081	982.0463	982.6885	982.6661	+22.4
178	70 56.8	42 56	2075	982.0518	982.6921	982.6679	+24.2
180	70 58.9	42 57	2087	982.0578	982.7018	982.6699	+31.9
182	71 00.9	42 57	2113	982.0546	982.7067	982.6717	+35.0
184	71 03.0	42 57	2152	982.0367	982.7008	982.6737	+27.1
186	71 05.0	42 58	2172	982.0377	982.7080	982.6755	+32.5
188	71 07.0	42 58	2183	982.0380	982.7117	982.6774	+34.3
190	71 09.1	42 58	2210	982.0367	982.7187	982.6793	+39.4
192	71 11.2	42 58	2236	982.0315	982.7215	982.6813	+40.2
194	71 13.2	42 59	2253	982.0276	982.7229	982.6831	+39.8
198	71 17.3	43 00	2295	982.0171	982.7253	982.6869	+38.4
200	71 19.4	43 00	2312	982.0100	982.7235	982.6888	+34.7
202	71 21.4	43 00	2311	982.0133	982.7265	982.6906	+35.9
204	71 23.5	43 01	2332	982.0069	982.7266	982.6926	+34.0
206	71 25.5	43 01	2342	982.0003	982.7230	982.6944	+28.6
208	71 27.5	43 02	2348	982.0006	982.7252	982.6962	+29.0
210	71 29.6	43 03	2359	982.0013	982.7293	982.6981	+31.2
212	71 31.6	43 03	2373	982.0007	982.7330	982.6999	+33.1
214	71 33.7	43 03	2394	981.9954	982.7342	982.7018	+32.4
216	71 35.7	43 04	2407	981.9946	982.7375	982.7036	+33.9
218	71 37.7	43 04	2420	981.9907	982.7375	982.7055	+32.0
220	71 39.7	43 04	2427	981.9933	982.7423	982.7073	+35.0
222	71 41.8	43 05	2444	981.9895	982.7437	982.7091	+34.6
226	71 45.8	43 06	2478	981.9847	982.7494	982.7127	+36.7
228	71 47.8	43 06	2490	981.9850	982.7534	982.7145	+38.9
230	71 49.9	43 06	2517	981.9798	982.7565	982.7164	+40.1
232	71 51.9	43 07	2523	981.9803	982.7569	982.7182	+40.7
234	71 54.0	43 08	2535	981.9824	982.7647	982.7201	+44.6
236	71 56.0	43 08	2548	981.9817	982.7680	982.7219	+46.1
238	71 58.1	43 08	2569	981.9745	982.7673	982.7237	+43.6
240	72 00.1	43 08	2590	981.9707	982.7700	982.7255	+44.5
242	72 02.2	43 08	2607	981.9656	982.7701	982.7274	+42.7
244	72 04.2	43 09	2617	981.9657	982.7733	982.7291	+44.2
246	72 06.2	43 09	2622	981.9710	982.7801	982.7309	+49.2
248	72 08.2	43 09	2626	981.9815	982.7919	982.7327	+59.2
250	72 10.2	43 09	2654	981.9776	982.7966	982.7344	+62.2
252	72 12.2	43 08	2681	981.9655	982.7929	982.7362	+56.7
254	72 14.2	43 08	2708	981.9478	982.7835	982.7380	+45.5

Station No.	Position		Elevation (m)	g (gal)	g_0 (gal)	γ_0 (gal)	Δg_0 (mgal)
	Latitude	Longitude					
256	72°16'2 S	43°07' E	2710	981.9422	982.7785	982.7397	+38.8
258	72 18.2	43 07	2719	981.9376	982.7767	982.7415	+35.2
260	72 20.3	43 07	2727	981.9389	982.7805	982.7433	+37.2
262	72 22.3	43 07	2734	981.9460	982.7897	982.7450	+44.7
268	72 28.4	43 06	2790	981.9333	982.7943	982.7503	+44.0
270	72 30.4	43 06	2802	981.9257	982.7904	982.7521	+38.3
272	72 32.5	43 06	2805	981.9286	982.7942	982.7539	+40.3
274	72 34.5	43 05	2804	981.9324	982.7977	982.7556	+42.1
276	72 36.6	43 05	2822	981.9313	982.8022	982.7574	+44.8
278	72 38.0	43 05	2837	981.9273	982.8028	982.7586	+44.2
280	72 40.8	43 04	2841	981.9303	982.8070	982.7610	+46.0
282	72 42.9	43 04	2860	981.9329	982.8155	982.7628	+52.7
284	72 44.9	43 03	2887	981.9310	982.8219	982.7646	+57.3
286	72 47.0	43 02	2921	981.9206	982.8220	982.7663	+55.7
288	72 49.1	43 02	2936	981.9041	982.8101	982.7681	+42.0
290	72 51.1	43 02	2942	981.8973	982.8052	982.7698	+35.4
292	72 53.1	43 01	2938	981.9021	982.8088	982.7715	+37.3
294	72 55.3	43 01	2967	981.8940	982.8096	982.7734	+36.2
296	72 57.3	43 00	2966	981.8958	982.8111	982.7751	+36.0
298	72 59.3	43 00	2979	981.8967	982.8160	982.7740	+42.0
300	73 01.5	42 59	3003	981.8942	982.8209	982.7787	+42.2
302	73 03.5	42 59	3018	981.8910	982.8224	982.7803	+42.1
304	73 05.6	42 57	3038	981.8797	982.8172	982.7821	+35.1
306	73 07.7	42 57	3042	981.8695	982.8083	982.7839	+24.4
308	73 09.7	42 57	3046	981.8640	982.8040	982.7855	+18.5
310	73 11.9	42 57	3054	981.8570	982.7995	982.7874	+12.1
312	73 13.9	42 57	3054	981.8595	982.8020	982.7891	+12.9
314	73 15.9	42 56	3059	981.8613	982.8053	982.7907	+14.6
316	73 18.0	42 56	3069	981.8632	982.8103	982.7925	+17.8
318	73 20.1	42 56	3087	981.8597	982.8123	982.7942	+18.1
320	73 22.2	42 55	3094	981.8583	982.8131	982.7960	+17.1
322	73 24.2	42 55	3120	981.8573	982.8196	982.7983	+21.3
326	73 28.3	42 55	3150	981.8490	982.8211	982.8010	+20.1
328	73 30.4	42 55	3163	981.8413	982.8174	982.8027	+14.7
330	73 32.5	42 55	3177	981.8331	982.8133	982.8044	+ 9.1
332	73 34.5	42 55	3180	981.8357	982.8170	982.8061	+10.9
334	73 36.6	42 55	3191	981.8350	982.8207	982.8078	+12.9
336	73 38.7	42 55	3204	981.8373	982.8261	982.8095	+16.6

Station No.	Position		Elevation (m)	g (gal)	g_0 (gal)	γ_0 (gal)	Δg_0 (mgal)
	Latitude	Longitude					
338	73°40'8 S	42°55' E	3210	981.8427	982.8333	982.8112	+22.1
342	73 44.9	42 54	3228	981.8492	982.8454	982.8146	+30.8
344	73 47.0	42 54	3247	981.8425	982.8445	982.8163	+28.2
346	73 49.1	42 54	3263	981.8367	982.8437	982.8190	+24.7
348	73 51.1	42 54	3278	981.8299	982.8415	982.8196	+21.9
350	73 53.3	42 53	3275	981.8340	982.8447	982.8214	+23.3
352	73 55.3	42 53	3284	981.8405	982.8539	982.8231	+30.8
354	73 57.3	42 53	3294	981.8434	982.8599	982.8346	+25.3
356	73 59.4	42 53	3314	981.8385	982.8612	982.8263	+34.9
358	74 01.5	42 53	3332	981.8329	982.8612	982.8279	+33.3
360	74 03.6	42 53	3333	981.8328	982.8614	982.8296	+31.8
362	74 05.6	42 53	3335	981.8378	982.8670	982.8312	+35.8
364	74 07.7	42 53	3351	981.8357	982.8698	982.8329	+36.9
366	74 09.8	42 52	3353	981.8407	982.8754	982.8345	+40.9
368	74 11.9	42 52	3362	981.8404	982.8779	982.8362	+41.7
370	74 13.9	42 52	3371	981.8387	982.8790	982.8378	+41.2
372	74 16.0	42 52	3387	981.8329	982.8781	982.8394	+38.7
374	74 18.1	42 52	3399	981.8296	982.8785	982.8411	+37.4
376	74 20.2	42 52	3407	981.8244	982.8758	982.8427	+33.1
378	74 22.3	42 52	3416	981.8184	982.8726	982.8444	+28.2
380	74 24.3	42 52	3423	981.8153	982.8716	982.8460	+24.0
382	74 26.4	42 52	3437	981.8106	982.8708	982.8476	+23.2
384	74 28.7	42 51	3437	981.8103	982.8710	982.8494	+21.6
386	74 30.6	42 51	3434	981.8162	982.8759	982.8509	+25.0
390	74 34.8	42 51	3450	981.8266	982.8913	982.8541	+37.2
392	74 36.9	42 51	3457	981.8321	982.8989	982.8558	+43.1
394	74 38.9	42 51	3461	981.8350	982.9031	982.8573	+45.8
396	74 41.0	42 51	3475	981.8273	982.8997	982.8589	+40.8
398	74 43.1	42 51	3480	981.8184	982.8923	982.8605	+31.8
400	74 45.2	42 51	3478	981.8137	982.8845	982.8621	+22.4
402	74 47.3	42 51	3483	981.8107	982.8856	982.8638	+21.8
404	74 49.3	42 51	3483	981.8109	982.8858	982.8653	+20.5
406	74 51.4	42 51	3495	981.8075	982.8861	982.8669	+19.2
408	74 53.5	42 51	3500	981.8039	982.8840	982.8685	+15.5
410	74 55.6	42 51	3499	981.8053	982.8851	982.8701	+15.0
412	74 57.7	42 51	3505	981.8098	982.8914	982.8717	+19.7
414	74 59.7	42 50	3519	981.8033	982.8898	982.8732	+16.6
416	75 01.8	42 49	3513	981.8051	982.8892	982.8747	+14.5

Station No.	Position		Elevation (m)	g (gal)	g_0 (gal)	γ_0 (gal)	Δg_0 (mgal)
	Latitude	Longitude					
418	75°03'8 S	42°48' E	3514	981.8110	982.8954	982.8763	+19.1
420	75 05.9	42 47	3529	981.8119	982.9009	982.8778	+23.1
422	75 07.9	42 46	3526	981.8119	982.9000	982.8793	+20.7
424	75 10.0	42 44	3537	981.8068	982.8983	982.8809	+17.4
426	75 12.0	42 43	3543	981.8028	982.8962	982.8824	+13.8
428	75 14.1	42 42	3546	981.8008	982.8951	982.8840	+11.1
430	75 16.2	42 41	3547	981.8009	982.8955	982.8855	+10.0
432	75 18.2	42 40	3548	981.8025	982.8974	982.8870	+10.4
434	75 20.3	42 39	3544	981.8077	982.9014	982.8886	+12.8
436	75 22.4	42 38	3548	981.8141	982.9090	982.8901	+18.9
438	75 24.4	42 37	3549	981.8180	982.9132	982.8916	+21.6
440	75 26.5	42 36	3556	981.8205	982.9179	982.8932	+24.7
442	75 28.6	42 35	3555	981.8259	982.9230	982.8947	+28.3
444	75 30.6	42 34	3556	981.8346	982.9320	982.8962	+35.8
446	75 32.7	42 34	3559	981.8437	982.9420	982.8975	+44.5
448	75 34.8	42 33	3569	981.8483	982.9497	982.8992	+50.5
450	75 36.9	42 32	3584	981.8430	982.9490	982.9008	+48.2
452	75 39.0	42 31	3591	981.8352	982.9434	982.9023	+41.1
454	75 41.0	42 29	3594	981.8290	982.9381	982.9037	+34.4
456	75 43.1	42 28	3591	981.8301	982.9383	982.9052	+33.1
458	75 45.1	42 28	3594	981.8310	982.9469	982.9067	+40.2
460	75 47.2	42 28	3604	981.8289	982.9411	982.9082	+32.9
462	75 49.2	42 28	3612	981.8172	982.9319	982.9096	+22.3
464	75 51.3	42 26	3613	981.8084	982.9234	982.9111	+12.3
466	75 53.4	42 25	3614	981.8074	982.9227	982.9126	+10.1
470	75 57.4	42 23	3613	981.8000	982.9150	982.9155	- 0.5
472	75 59.4	42 22	3617	981.7996	982.9158	982.9169	- 1.1
474	75 01.6	42 21	3622	981.8022	982.9199	982.9185	+ 1.4
478	76 05.7	42 19	3629	981.8107	982.9306	982.9214	+ 9.2
480	76 07.7	42 18	3635	981.8134	982.9352	982.9328	+ 2.4
482	76 09.8	42 17	3639	981.8128	982.9358	982.9342	+ 1.6
484	76 11.9	42 16	3642	981.8121	982.9360	982.9257	+10.3
486	76 13.9	42 15	3632	981.8121	982.9329	982.9271	+ 5.8
488	76 16.0	42 14	3637	981.8144	982.9368	982.9286	+ 8.2
490	76 18.0	42 13	3642	981.8163	982.9402	982.9300	+10.2
492	76 20.1	42 12	3640	981.8158	982.9391	982.9314	+ 7.7
494	76 22.2	42 11	3645	981.8100	982.9348	982.9329	+ 1.9
496	76 24.2	42 09	3646	981.8107	982.9359	982.9343	+ 1.6

Station No.	Position		Elevation (m)	g (gal)	g_0 (gal)	γ_0 (gal)	Δg_0 (mgal)
	Latitude	Longitude					
498	76°26'2 S	42°08' E	3652	981.8105	982.9375	982.9357	+ 1.8
502	76 30.4	42 06	3648	981.8175	982.9433	982.9385	+ 4.8
504	76 32.4	42 04	3653	981.8198	982.9471	982.9399	+ 7.2
506	76 34.4	42 03	3655	981.8282	982.9561	982.9413	+14.8
510	76 38.4	42 00	3672	981.8217	982.9549	982.9440	+10.9
512	76 40.5	41 59	3675	981.8213	982.9554	982.9454	+10.0
514	76 42.5	41 58	3673	981.8239	982.9574	982.9468	+10.6
516	76 44.5	41 56	3674	981.8298	982.9636	982.9481	+15.5
518	76 46.7	41 55	3675	981.8357	982.9698	982.9496	+20.2
520	76 48.7	41 55	3673	981.8335	982.9670	982.9510	+16.0
522	76 50.8	41 54	3683	981.8349	982.9715	982.9524	+19.1
524	76 52.8	41 52	3694	981.8387	982.9787	982.9537	+25.0
526	76 54.9	41 51	3691	981.8408	982.9798	982.9551	+24.7
528	76 56.9	41 49	3694	981.8434	982.9834	982.9564	+27.0
530	76 59.0	41 48	3696	981.8451	982.9857	982.9578	+27.9
532	77 01.1	41 46	3699	981.8452	982.9867	982.9592	+27.5
534	77 03.2	41 45	3702	981.8462	982.9886	982.9606	+28.0
536	77 05.2	41 44	3698	981.8478	982.9890	982.9619	+27.1
538	77 07.4	41 42	3693	981.8512	982.9909	982.9634	+27.5
540	77 09.3	41 41	3710	981.8442	982.9891	982.9646	+24.5
542	77 11.3	41 39	3709	981.8392	982.9838	982.9659	+17.9
544	77 13.3	41 38	3704	981.8385	982.9816	982.9677	+13.9
546	77 15.4	41 36	3708	981.8354	982.9797	982.9685	+11.2
548	77 17.5	41 35	3712	981.8295	982.9750	982.9700	+ 5.0
550	77 19.7	41 34	3714	981.8325	982.9786	982.9714	+ 7.2
552	77 21.8	41 33	3713	981.8405	982.9864	982.9827	+ 3.7
554	77 23.8	41 32	3714	981.8445	982.9906	982.9840	+ 6.6
556	77 26.0	41 32	3717	981.8528	982.9999	982.9754	+24.5
558	77 28.1	41 31	3715	981.8664	983.0128	982.9768	+36.0
560	77 30.2	41 30	3714	981.8736	983.0197	982.9781	+41.6
562	77 32.2	41 28	3712	981.8811	983.0266	982.9794	+47.2
564	77 34.4	41 27	3712	981.8765	983.0220	982.9808	+41.2
566	77 36.5	41 25	3709	981.8703	983.0149	982.9821	+32.8
568	77 38.5	41 24	3711	981.8760	983.0212	982.9834	+37.8
570	77 40.6	41 21	3710	981.8778	983.0227	982.9847	+38.0
572	77 42.6	41 19	3708	981.8679	983.0122	982.9860	+26.2
574	77 44.6	41 17	3707	981.8603	983.0043	982.9872	+17.1
578	77 48.6	41 16	3704	981.8549	982.9980	982.9897	+ 8.3

Station No.	Position		Elevation (m)	g (gal)	g_0 (gal)	γ_0 (gal)	Δg_0 (mgal)
	Latitude	Longitude					
580	77°50'7 S	41°15' E	3705	981.8613	983.0047	982.9909	+13.8
582	77 52.7	41 15	3704	981.8485	982.9916	982.9923	- 0.7
584	77 54.7	41 13	3702	981.8500	982.9924	982.9935	- 1.1
586	77 56.7	41 12	3698	981.8529	982.9941	982.9947	- 0.6
590	78 00.6	41 10	3694	981.8588	982.9988	982.9970	+ 1.8
592	78 02.6	41 09	3685	981.8673	983.0045	982.9984	+ 6.1
594	78 04.6	41 06	3683	981.8745	983.0111	982.9996	+11.5
596	78 06.6	41 04	3681	981.8786	983.0146	983.0009	+13.5
598	78 08.6	41 02	3682	981.8819	983.0182	983.0021	+16.1
600	78 10.6	41 01	3679	981.8842	983.0195	983.0033	+16.2
602	78 12.5	40 59	3677	981.8818	983.0165	983.0044	+12.1
604	78 14.5	40 58	3679	981.8829	983.0182	983.0056	+12.6
606	78 16.5	40 56	3674	981.8871	983.0209	983.0068	+14.1
608	78 18.6	40 55	3670	981.8854	983.0180	983.0081	+ 9.9
610	78 20.6	40 53	3670	981.8822	983.0148	983.0093	+ 5.5
614	78 24.7	40 51	3667	981.8802	983.0118	983.0117	+ 0.1
616	78 26.7	40 50	3665				
618	78 28.8	40 49	3662	981.8804	983.0105	983.0142	- 3.3
620	78 30.9	40 48	3659	981.8806	983.0098	983.0154	- 5.6
622	78 33.0	40 48	3653	981.8820	983.0093	983.0166	- 7.3
624	78 35.1	40 47	3650				
626	78 37.1	40 46	3649	981.8852	983.0112	983.0190	- 7.8
628	78 39.0	40 44	3650				
630	78 41.0	40 44	3654	981.8878	983.0154	983.0213	- 5.9
634	78 45.2	40 40	3647	981.8948	983.0203	983.0237	- 3.4
636	78 47.2	40 40	3647	981.9011	983.0266	983.0249	+ 1.7
638	78 49.2	40 39	3639	981.9085	983.0315	983.0260	+ 5.5
642	78 53.4	40 39	3628	981.9234	983.0430	983.0284	+14.6
644	78 55.4	40 38	3622	981.9314	983.0491	983.0296	+19.5
646	78 57.4	40 38	3613	981.9364	983.0514	983.0307	+20.7
648	78 59.5	40 37	3617	981.9280	983.0442	983.0319	+12.3
650	79 01.5	40 35	3619	981.9216	983.0384	983.0331	+ 5.3
652	79 03.5	40 34	3616				
654	79 05.6	40 33	3618	981.9185	983.0350	983.0354	- 0.4
658	79 09.7	40 32	3609	981.9233	983.0370	983.0377	- 0.7
662	79 13.9	40 31	3618	981.9271	983.0436	983.0400	+ 3.6
Plateau St. (663)	79 14.8	40 30	3624	981.9279	983.0463	983.0405	+ 5.8
664	79 16.7	40 30	3619	981.9298	983.0466	983.0415	+ 5.1

Station No.	Position		Elevation (m)	g (gal)	g_0 (gal)	γ_0 (gal)	Δg_0 (mgal)
	Latitude	Longitude					
665	79°18'6 S	40°31' E	3615	981.9303	983.0459	983.0426	+ 3.3
666	79 20.5	40 31	3621	981.9349	983.0523	983.0436	+ 8.7
667	79 22.5	40 32	3616	981.9372	983.0531	983.0447	+ 8.4
668	79 24.4	40 32	3614	981.9417	983.0570	983.0458	+11.2
669	79 26.3	40 32	3609	981.9481	983.0618	983.0468	+15.0
670	79 28.2	40 33	3599	981.9492	983.0599	983.0478	+12.1
671	79 30.1	40 33	3603	981.9463	983.0582	983.0489	+ 9.3
672	79 32.0	40 33	3609	981.9464	983.0601	983.0499	+10.2
673	79 33.9	40 34	3604	981.9509	983.0631	983.0509	+12.2
674	79 35.8	40 34	3592	981.9568	983.0653	983.0519	+13.4
675	79 37.8	40 34	3584	981.9632	983.0692	983.0530	+16.2
676	79 39.7	40 35	3584	981.9694	983.0754	983.0540	+21.4
677	79 41.6	40 35	3583	981.9727	983.0784	983.0550	+23.4
678	79 44.0	40 36	3582	981.9702	983.0756	983.0563	+19.3
679	79 45.4	40 36	3581	981.9725	983.0776	983.0571	+20.5
680	79 47.4	40 36	3579	981.9752	983.0797	983.0581	+21.6
681	79 49.3	40 37	3576	981.9731	983.0767	983.0591	+17.6
682	79 51.3	40 37	3574	981.9670	983.0699	983.0602	+ 9.7
683	79 53.3	40 38	3574	981.9629	983.0658	983.0612	+ 4.6
684	79 55.2	40 38	3569	981.9591	983.0605	983.0622	- 1.7
685	79 57.2	40 38	3570	981.9588	983.0605	983.0632	- 2.7
686	79 59.1	40 39	3568	981.9630	983.0641	983.0642	- 0.1
687	80 01.1	40 39	3563	981.9686	983.0681	983.0653	+ 2.8
688	80 03.1	40 39	3562	981.9712	983.0704	983.0663	+ 4.1
689	80 05.1	40 39	3557	981.9778	983.0755	983.0673	+ 8.2
690	80 07.1	40 39	3559	981.9849	983.0832	983.0683	+14.9
691	80 09.0	40 39	3554	981.9900	983.0868	983.0693	+17.5
692	80 11.0	40 38	3558	981.9898	983.0878	983.0703	+17.5
693	80 13.0	40 38	3561	981.9866	983.0855	983.0713	+14.2
694	80 15.0	40 38	3564	981.9859	983.0858	983.0723	+13.5
695	80 17.0	40 38	3571	981.9940	983.0960	983.0734	+22.6
696	80 19.0	40 38	3553	981.9988	983.0953	983.0744	+20.9
697	80 21.0	40 38	3553	982.0024	983.0989	983.0755	+23.4
698	80 23.0	40 38	3539	982.0002	983.0923	983.0764	+15.9
699	80 24.9	40 38	3545	981.9973	983.0913	983.0773	+14.0
700	80 26.9	40 38	3545	981.9965	983.0905	983.0783	+12.2
701	80 28.9	40 38	3544	982.0062	983.0999	983.0792	+20.7
702	80 30.9	40 38	3538	982.0211	983.1129	983.0803	+32.6

Station No.	Position		Elevation (m)	g (gal)	g_0 (gal)	γ_0 (gal)	Δg_0 (mgal)
	Latitude	Longitude					
703	80°32'9 S	40°37'E	3535	982.0294	983.1203	983.0812	+39.1
704	80 34.9	40 37	3530	982.0245	983.1139	983.0821	+31.8
705	80 36.9	40 37	3532	982.0210	983.1110	983.0832	+27.8
706	80 38.9	40 37	3526	982.0232	983.1113	983.0842	+27.1
707	80 40.8	40 37	3518	982.0230	983.1087	983.0851	+23.6
708	80 42.8	40 37	3517	982.0182	983.1035	983.0858	+17.7
709	80 44.8	40 37	3518	982.0157	983.1014	983.0870	+14.4
710	80 46.8	40 37	3515	982.0229	983.1076	983.0880	+19.6
711	80 48.8	40 37	3505	982.0303	983.1119	983.0889	+23.0
712	80 50.8	40 36	3497	982.0351	983.1143	983.0899	+24.4
713	80 52.8	40 36	3487	982.0384	983.1145	983.0908	+23.7
714	80 54.7	40 36	3490	982.0327	983.1097	983.0920	+17.7
715	80 56.7	40 36	3488	982.0309	983.1073	983.0927	+14.6
716	80 58.7	40 36	3486	982.0359	983.1117	983.0936	+18.1
717	81 00.7	40 36	3481	982.0434	983.1176	983.0945	+23.1
718	81 02.7	40 36	3471	982.0476	983.1188	983.0955	+23.3
719	81 04.7	40 36	3467	982.0460	983.1159	983.0964	+19.5
720	81 06.7	40 36	3466	982.0435	983.1131	983.0973	+15.8
721	81 08.7	40 36	3467	982.0435	983.1134	983.0982	+15.2
722	81 10.7	40 36	3466	982.0428	983.1124	983.0991	+13.3
723	81 12.8	40 36	3468	982.0457	983.1159	983.1001	+15.8
724	81 14.8	40 36	3467	982.0565	983.1264	983.1010	+25.4
725	81 16.8	40 36	3461	982.0601	983.1282	983.1019	+26.3
726	81 18.8	40 36	3457	982.0576	983.1244	983.1028	+21.6
727	81 20.8	40 36	3460	982.0540	983.1218	983.1040	+17.8
728	81 22.8	40 36	3459	982.0602	983.1276	983.1046	+23.0
729	81 24.8	40 36	3457	982.0613	983.1281	983.1055	+22.6
730	81 26.9	40 36	3463	982.0613	983.1300	983.1065	+23.5
731	81 28.9	40 36	3449	982.0619	983.1263	983.1073	+19.0
732	81 31.0	40 36	3446	982.0626	983.1260	983.1083	+17.7
733	81 33.0	40 36	3440	982.0637	983.1253	983.1092	+16.1
734	81 35.1	40 37	3436	982.0615	983.1218	983.1101	+11.7
735	81 37.1	40 37	3432	982.0576	983.1167	983.1109	+ 5.8
736	81 39.1	40 37	3429	982.0556	983.1138	983.1118	+ 2.0
737	81 41.2	40 37	3420	982.0604	983.1158	983.1127	+ 3.1
738	81 43.2	40 37	3416	982.0663	983.1205	983.1136	+ 6.9
739	81 45.3	40 37	3417	982.0674	983.1219	983.1145	+ 7.4
740	81 47.3	40 37	3413	982.0761	983.1294	983.1153	+14.1

Station No.	Position		Elevation (m)	g (gal)	g_0 (gal)	γ_0 (gal)	Δg_0 (mgal)
	Latitude	Longitude					
741	81°49'1 S	40°37'E	3406	982.0801	983.1312	983.1161	+15.1
742	81 51.0	40 37	3407	982.0765	983.1279	983.1169	+11.0
743	81 52.8	40 37	3401	982.0792	983.1287	983.1177	+11.0
744	81 54.6	40 37	3391	982.0830	983.1295	983.1184	+11.1
745	81 56.4	40 37	3394	982.0791	983.1265	983.1192	+ 7.3
746	81 58.3	40 37	3402	982.0749	983.1249	983.1200	+ 4.9
747	82 00.1	40 37	3407	982.0730	983.1244	983.1207	+ 3.7
748	82 02.1	40 37	3404	982.0689	983.1194	983.1216	- 2.2
749	82 04.1	40 37	3411	982.0655	983.1181	983.1224	- 4.3
750	82 06.1	40 36	3412	982.0693	983.1222	983.1232	- 1.0
751	82 08.1	40 36	3402	982.0797	983.1297	983.1240	- 5.7
752	82 10.1	40 36	3399	982.0795	983.1284	983.1249	+ 3.5
753	82 12.1	40 36	3402	982.0818	983.1318	983.1257	+ 6.1
754	82 14.0	40 36	3404	982.0834	983.1339	983.1265	+ 7.4
755	82 16.0	40 35	3407	982.0840	983.1354	983.1273	+ 8.1
756	82 18.0	40 35	3405	982.0864	983.1372	983.1281	+ 9.1
757	82 20.0	40 35	3404	982.0848	983.1353	983.1289	+ 6.4
758	82 22.0	40 35	3399	982.0805	983.1294	983.1297	- 0.3
759	82 24.0	40 35	3402	982.0786	983.1286	983.1305	- 1.9
760	82 26.0	40 34	3397	982.0784	983.1267	983.1312	- 4.5
761	82 28.0	40 34	3399	982.0796	983.1285	983.1320	- 3.5
762	82 30.1	40 34	3392	982.0896	983.1364	983.1329	+ 3.5
763	82 32.1	40 34	3391	982.0994	983.1459	983.1336	+12.3
764	82 34.1	40 34	3384	982.1128	983.1571	983.1344	+22.7
765	82 36.1	40 33	3369	982.1297	983.1694	983.1352	+34.2
766	82 38.2	40 33	3371	982.1408	983.1811	983.1360	+45.1
767	82 40.2	40 33	3379	982.1480	983.1908	983.1368	+54.0
768	82 42.2	40 33	3373	982.1554	983.1963	983.1375	+58.8
769	82 44.2	40 33	3372	982.1534	983.1940	983.1383	+55.7
770	82 46.2	40 32	3374	982.1489	983.1901	983.1390	+51.1
771	82 48.3	40 32	3370	982.1528	983.1928	983.1398	+53.0
772	82 50.3	40 32	3370	982.1517	983.1917	983.1406	+51.1
773	82 52.3	40 32	3372	982.1412	983.1818	983.1413	+40.5
774	82 54.3	40 32	3368	982.1377	983.1771	983.1421	+35.0
775	82 56.4	40 31	3368	982.1279	983.1673	983.1428	+24.5
776	82 58.4	40 31	3368	982.1219	983.1613	983.1436	+17.7
777	83 00.4	40 31	3362	982.1248	983.1623	983.1443	+18.0
778	83 02.5	40 31	3353	982.1222	983.1569	983.1451	+11.8

Station No.	Position		Elevation (m)	g (gal)	g_0 (gal)	γ_0 (gal)	Δg_0 (mgal)
	Latitude	Longitude					
779	83°04' 5 S	40°31' E	3362	982.1237	983.1612	983.1458	+15.4
780	83 06.6	40 32	3363	982.1224	983.1602	983.1466	+13.6
781	83 08.7	40 32	3361	982.1237	983.1609	983.1473	+13.6
782	83 10.7	40 32	3356	982.1234	983.1591	983.1480	+11.1
783	83 12.8	40 32	3353	982.1229	983.1576	983.1488	+ 8.8
784	83 14.9	40 32	3351	982.1236	983.1577	983.1495	+ 8.2
785	83 16.9	40 33	3349	982.1293	983.1628	983.1502	+12.6
786	83 19.0	40 33	3352	982.1277	983.1621	983.1510	+11.1
787	83 21.1	40 33	3348	982.1308	983.1640	983.1517	+12.3
788	83 23.1	40 33	3343	982.1359	983.1675	983.1524	+15.1
789	83 25.2	40 33	3337	982.1397	983.1695	983.1531	+16.4
790	83 27.3	40 34	3317	982.1452	983.1688	983.1538	+15.0
791	83 29.3	40 34	3313	982.1434	983.1658	983.1545	+11.3
792	83 31.4	40 34	3312	982.1390	983.1611	983.1552	+ 5.9
793	83 33.4	40 34	3307	982.1345	983.1550	983.1559	- 0.9
794	83 35.5	40 34	3306	982.1329	983.1531	983.1560	- 2.9
795	83 37.5	40 35	3300	982.1421	983.1605	983.1573	+ 3.2
796	83 39.6	40 35	3299	982.1498	983.1679	983.1580	+ 9.9
797	83 41.6	40 35	3299	982.1523	983.1704	983.1586	+11.8
798	83 43.7	40 35	3298	982.1497	983.1675	983.1593	+ 8.2
799	83 45.7	40 35	3292	982.1507	983.1666	983.1600	+ 6.6
800	83 47.8	40 36	3298	982.1510	983.1688	983.1607	+ 8.1
801	83 49.8	40 36	3296	982.1542	983.1713	983.1613	+10.1
802	83 51.8	40 36	3290	982.1583	983.1736	983.1620	+11.6
803	83 53.9	40 36	3288	982.1590	983.1737	983.1626	+11.1
804	83 55.9	40 36	3294	982.1559	983.1724	983.1633	+ 9.1
805	83 57.9	40 37	3298	982.1533	983.1711	983.1639	+ 7.2
806	84 00.0	40 37	3298	982.1541	983.1719	983.1646	+ 7.3
807	84 02.0	40 37	3291	982.1550	983.1706	983.1652	+ 5.4
808	84 04.0	40 37	3291	982.1528	983.1684	983.1658	+ 2.6
809	84 06.1	40 37	3292	982.1528	983.1687	983.1665	+ 2.2
810	84 08.2	40 36	3288	982.1578	983.1725	983.1671	+ 5.4
811	84 10.2	40 36	3290	982.1597	983.1750	983.1677	+ 7.3
812	84 12.2	40 36	3290	982.1624	983.1777	983.1683	+ 9.4
813	84 14.3	40 36	3282	982.1645	983.1773	983.1690	+ 8.3
814	84 16.4	40 36	3276	982.1606	983.1716	983.1696	+ 2.0
815	84 18.4	40 35	3271	982.1604	983.1698	983.1702	- 0.4
816	84 20.4	40 35	3271	982.1663	983.1757	983.1708	+ 4.9

Station No.	Position		Elevation (m)	g (gal)	g_0 (gal)	γ_0 (gal)	Δg_0 (mgal)
	Latitude	Longitude					
817	84°22'5 S	40°35'E	3263	982.1722	983.1792	983.1714	+ 7.8
818	84 24.6	40 35	3260	982.1766	983.1826	983.1720	+10.6
819	84 26.6	40 35	3257	982.1819	983.1870	983.1726	+14.4
820	84 28.6	40 34	3257	982.1894	983.1945	983.1732	+21.3
821	84 30.7	40 34	3253	982.1977	983.2016	983.1738	+27.8
822	84 32.8	40 34	3249	982.2049	983.2075	983.1744	+33.1
823	84 34.8	40 34	3248	982.2045	983.2068	983.1750	+31.8
824	84 36.8	40 34	3245	982.2073	983.2087	983.1755	+33.2
825	84 38.9	40 33	3249	982.2047	983.2073	983.1761	+31.2
826	84 41.0	40 33	3254	982.2071	983.2113	983.1767	+34.6
827	84 43.0	40 33	3257	982.2132	983.2183	983.1773	+41.0
828	84 45.0	40 33	3253	982.2140	983.2179	983.1778	+40.1
829	84 47.1	40 33	3248	982.2249	983.2272	983.1784	+48.8
830	84 49.2	40 32	3237	982.2264	983.2253	983.1790	+46.3
831	84 51.2	40 32	3234	982.2303	983.2283	983.1795	+48.8
832	84 53.2	40 32	3220	982.2352	983.2289	983.1801	+48.8
833	84 55.2	40 32	3207	982.2400	983.2297	983.1806	+49.1
834	84 57.2	40 32	3197	982.2389	983.2255	983.1811	+44.4
835	84 59.3	40 31	3191	982.2416	983.2263	983.1817	+44.6
836	85 01.3	40 31	3194	982.2408	983.2265	983.1822	+44.3
837	85 03.3	40 31	3194	982.2431	983.2283	983.1827	+46.1
838	85 05.3	40 30	3197	982.2418	983.2284	983.1832	+45.2
839	85 07.4	40 29	3195	982.2434	983.2294	983.1837	+45.6
840	85 09.4	40 28	3191	982.2410	983.2257	983.1842	+41.4
841	85 11.4	40 27	3187	982.2415	983.2250	983.1848	+40.2
842	85 13.4	40 26	3190	982.2399	983.2243	983.1853	+39.0
843	85 15.5	40 25	3189	982.2414	983.2255	983.1858	+39.7
844	85 17.5	40 24	3188	982.2401	983.2239	983.1863	+37.6
845	85 19.5	40 23	3188	982.2382	983.2220	983.1868	+35.2
846	85 21.5	40 22	3188	982.2383	983.2221	983.1878	+34.3
847	85 23.6	40 21	3186	982.2400	983.2232	983.1878	+35.4
848	85 25.6	40 20	3184	982.2433	983.2259	983.1883	+37.6
849	85 27.7	40 19	3180	982.2471	983.2284	983.1888	+39.6
850	85 29.8	40 18	3169	982.2499	983.2279	983.1893	+38.6
851	85 31.9	40 17	3166	982.2511	983.2281	983.1898	+38.3
852	85 34.0	40 16	3163	982.2525	983.2296	983.1903	+39.3
853	85 36.1	40 15	3157	982.2508	983.2251	983.1908	+34.3
854	85 38.2	40 13	3155	982.2469	983.2205	983.1913	+29.2

Station No.	Position		Elevation (m)	g (gal)	g_0 (gal)	γ_0 (gal)	Δg_0 (mgal)
	Latitude	Longitude					
855	85°40'4 S	40°12' E	3154	982.2444	983.2177	983.1918	+25.9
856	85 42.5	40 11	3154	982.2433	983.2166	983.1922	+24.4
857	85 44.6	40 10	3152	982.2459	983.2196	983.1927	+26.9
858	85 46.7	40 09	3146	982.2487	983.2196	983.1932	+26.4
859	85 48.8	40 08	3147	982.2510	983.2222	983.1936	+28.6
860	85 50.9	40 07	3148	982.2534	983.2249	983.1941	+30.8
861	85 52.9	40 06	3147	982.2552	983.2264	983.1945	+31.9
862	85 54.9	40 05	3147	982.2539	983.2251	983.1950	+30.1
863	85 56.9	40 04	3137	982.2542	983.2223	983.1954	+26.9
864	85 59.0	40 03	3135	982.2605	983.2280	983.1958	+32.2
865	86 01.0	40 02	3132	982.2653	983.2318	983.1963	+35.5
866	86 03.0	40 01	3122	982.2624	983.2258	983.1967	+29.1
867	86 05.0	40 00	3116	982.2605	983.2221	983.1971	+25.0
868	86 07.1	39 59	3107	982.2635	983.2223	983.1975	+24.8
869	86 09.2	39 58	3105	982.2612	983.2194	983.1979	+21.5
870	86 11.3	39 58	3102	982.2576	983.2149	983.1984	+16.5
871	86 13.4	39 57	3109	982.2521	983.2115	983.1988	+12.7
872	86 15.5	39 56	3107	982.2540	983.2128	983.1992	+13.6
873	86 17.5	39 55	3103	982.2599	983.2175	983.1996	+17.9
874	86 19.6	39 55	3090	982.2643	983.2179	983.2000	+17.9
875	86 21.7	39 54	3080	982.2669	983.2174	983.2004	+17.0
876	86 23.8	39 53	3076	982.2675	983.2168	983.2008	+16.0
877	86 25.9	39 52	3079	982.2687	983.2189	983.2012	+17.7
878	86 28.0	39 52	3079	982.2719	983.2221	983.2016	+20.5
879	86 30.1	39 51	3072	982.2803	983.2283	983.2020	+26.3
880	86 32.3	39 50	3065	982.2866	983.2325	983.2024	+30.1
881	86 34.4	39 49	3064	982.2908	983.2364	983.2028	+33.6
882	86 36.6	39 48	3058	982.2961	983.2398	983.2032	+36.6
883	86 38.7	39 47	3044	982.2980	983.2374	983.2035	+33.9
884	86 40.8	39 47	3033	982.2962	983.2322	983.2039	+28.3
885	86 43.0	39 46	3030	982.2921	983.2272	983.2043	+22.9
886	86 45.1	39 45	3028	982.2964	983.2308	983.2046	+26.2
887	86 47.2	39 45	3027	982.3048	983.2389	983.2050	+33.9
888	86 49.4	39 44	3016	982.3146	983.2453	983.2054	+39.9
889	86 51.5	39 43	3005	982.3230	983.2503	983.2057	+44.6
890	86 53.7	39 42	2995	982.3223	983.2466	983.2061	+40.5
891	86 55.8	39 42	2994	982.3160	983.2399	983.2064	+33.5
892	86 57.9	39 41	2980	982.3125	983.2321	983.2068	+25.3

Station No.	Position		Elevation (m)	g (gal)	g_0 (gal)	γ_0 (gal)	Δg_0 (mgal)
	Latitude	Longitude					
893	87°00'0 S	39°40' E	2981	982.3141	983.2340	983.2071	+26.9
894	87 02.1	39 39	2974	982.3183	983.2361	983.2074	+28.7
895	87 04.2	39 38	2955	982.3261	983.2380	983.2077	+30.3
896	87 06.3	39 38	2952	982.3239	983.2349	983.2081	+26.8
897	87 08.4	39 37	2945	982.3184	983.2272	983.2084	+18.8
898	87 10.4	39 40	2945	982.3155	983.2243	983.2087	+15.6
899	87 12.3	39 42	2946	982.3147	983.2238	983.2090	+14.8
900	87 14.3	39 45	2953	982.3140	983.2253	983.2093	+16.0
901	87 16.3	39 47	2946	982.3155	983.2246	983.2096	+15.0
902	87 18.3	39 50	2933	982.3210	983.2261	983.2098	+16.3
903	87 20.2	39 52	2933	982.3195	983.2246	983.2101	+14.5
904	87 22.2	39 55	2944	982.3218	983.2303	983.2104	+19.9
905	87 24.2	39 57	2939	982.3287	983.2357	983.2107	+25.0
906	87 26.2	40 00	2944	982.3341	983.2426	983.2109	+31.7
907	87 28.1	40 02	2945	982.3400	983.2488	983.2112	+37.6
908	87 30.1	40 05	2942	982.3491	983.2570	983.2115	+45.5
909	87 32.1	40 07	2938	982.3566	983.2633	983.2117	+51.6
910	87 34.2	40 10	2916	982.3653	983.2652	983.2120	+53.2
911	87 36.2	40 12	2909	982.3586	983.2563	983.2124	+43.9
912	87 38.2	40 15	2920	982.3478	983.2489	983.2125	+36.4
913	87 40.3	40 17	2932	982.3425	983.2473	983.2128	+34.5
914	87 42.3	40 20	2926	982.3380	983.2410	983.2130	+28.0
915	87 44.3	40 23	2910	982.3364	983.2344	983.2132	+21.2
916	87 46.4	40 25	2904	982.3367	983.2329	983.2135	+19.4
917	87 48.4	40 28	2901	982.3367	983.2319	983.2137	+18.2
918	87 50.4	40 30	2897	982.3367	983.2307	983.2139	+16.8
919	87 52.5	40 33	2899	982.3374	983.2320	983.2142	+17.8
920	87 54.5	40 35	2913	982.3399	983.2389	983.2144	+24.5
921	87 56.5	40 38	2906	982.3403	983.2371	983.2146	+22.5
922	87 58.5	40 40	2894	982.3409	983.2340	983.2148	+19.2
923	88 00.5	40 43	2873	982.3486	983.2352	983.2151	+20.1
924	88 02.4	40 45	2866	982.3501	983.2345	983.2152	+19.3
925	88 04.4	40 48	2859	982.3519	983.2333	983.2155	+17.8
926	88 06.4	40 51	2855	982.3509	983.2320	983.2157	+16.3
927	88 08.4	40 53	2859	982.3486	983.2309	983.2159	+15.0
928	88 10.4	40 54	2859	982.3460	983.2283	983.2160	+12.3
929	88 12.5	40 54	2868	982.3462	983.2313	983.2162	+15.1
930	88 14.5	40 54	2857	982.3521	983.2338	983.2164	+17.4

Station No.	Position		Elevation (m)	g (gal)	g_0 (gal)	γ_0 (gal)	Δg_0 (mgal)
	Latitude	Longitude					
931	88°16'5 S	40°55' E	2859	982.3474	983.2297	983.2166	+13.1
932	88 18.6	40 56	2867	982.3401	983.2249	983.2168	+ 8.1
933	88 20.6	40 56	2874	982.3380	983.2249	983.2170	+ 7.9
934	88 22.7	40 56	2863	982.3415	983.2250	983.2172	+ 7.8
935	88 24.7	40 57	2856	982.3342	983.2156	983.2173	- 1.7
936	88 26.7	40 58	2841	982.3332	983.2099	983.2175	- 7.6
937	88 28.8	40 58	2814	982.3312	983.1996	983.2177	-18.1
938	88 30.8	40 58	2819	982.3204	983.1903	983.2178	-27.5
939	88 32.8	40 59	2815	982.3140	983.1827	983.2180	-35.3
940	88 34.8	41 00	2807	982.3112	983.1774	983.2181	-40.6
941	88 36.8	41 00	2818	982.3067	983.1763	983.2183	-42.0
942	88 38.8	41 00	2820	982.3022	983.1725	983.2184	-45.9
943	88 40.8	41 01	2827	982.2978	983.1702	983.2186	-48.4
944	88 42.8	41 02	2829	982.2959	983.1689	983.2187	-49.8
945	88 44.9	41 02	2832	982.2974	983.1714	983.2188	-47.4
946	88 46.9	41 02	2823	982.3016	983.1728	983.2190	-46.2
947	88 48.9	41 03	2807	982.3043	983.1705	983.2191	-48.6
948	88 50.9	41 04	2807	982.2987	983.1649	983.2192	-54.3
949	88 52.9	41 04	2810	982.2975	983.1647	983.2193	-54.6
950	88 54.9	41 04	2802	982.3005	983.1652	983.2195	-54.3
951	88 56.9	41 05	2791	982.3000	983.1613	983.2196	-58.3
952	88 58.9	41 06	2792	982.2980	983.1596	983.2197	-60.1
953	89 00.9	41 06	2792	982.2977	983.1593	983.2198	-60.5
954	89 02.8	41 06	2802	982.2957	983.1604	983.2199	-59.5
955	89 04.8	41 07	2811	982.2974	983.1649	983.2200	-55.1
956	89 06.8	41 08	2811	982.3064	983.1739	983.2201	-46.2
957	89 08.8	41 08	2816	982.3144	983.1834	983.2202	-36.8
958	89 10.8	41 12	2823	982.3179	983.1891	983.2203	-31.2
959	89 12.8	41 15	2832	982.3184	983.1924	983.2203	-27.9
960	89 14.8	41 19	2818	982.3184	983.1880	983.2204	-32.4
961	89 16.8	41 23	2818	982.3170	983.1866	983.2205	-33.9
962	89 18.8	41 26	2823	982.3177	983.1889	983.2206	-31.7
963	89 20.8	41 30	2813	982.3238	983.1919	983.2206	-28.7
964	89 22.9	41 34	2810	982.3290	983.1962	983.2207	-24.5
965	89 24.9	41 37	2818	982.3273	983.1969	983.2208	-23.9
966	89 27.0	41 41	2823	982.3267	983.1979	983.2208	-22.9
967	89 29.0	41 45	2831	982.3280	983.2016	983.2209	-19.3
968	89 31.1	41 48	2814	982.3302	983.1986	983.2210	-22.4

Station No.	Position		Elevation (m)	g (gal)	g_0 (gal)	γ_0 (gal)	Δg_0 (mgal)
	Latitude	Longitude					
969	89°33'1 S	41°52' E	2813	982.3286	983.1967	983.2210	-24.3
970	89 35.2	41 56	2819	982.3252	983.1951	983.2211	-26.0
971	89 37.2	41 59	2826	982.3245	983.1966	983.2211	-24.5
972	89 39.3	42 03	2819	982.3243	983.1942	983.2211	-26.9
973	89 41.3	42 07	2809	982.3264	983.1933	983.2212	-27.9
974	89 43.4	42 10	2811	982.3266	983.1941	983.2212	-27.1
975	89 45.4	42 14	2801	982.3264	983.1908	983.2212	-30.4
976	89 47.4	42 15	2806	982.3264	983.1923	983.2213	-29.0
977	89 49.4	42 15	2803	982.3259	983.1909	983.2213	-30.4
978	89 51.4	42 15	2796	982.3251	983.1879	983.2213	-33.4
979	89 53.4	42 15	2799	982.3234	983.1872	983.2213	-34.1
980	89 55.4	42 15	2804	982.3229	983.1882	983.2213	-33.1
981	89 57.4	42 15	2807	982.3229	983.1891	983.2213	-32.2
South Pole (982)	90 00.		2800	982.3257	983.1898	983.2213	-31.5

and South Pole Station was 2.5 mgal. The mean drift in a day was 0.02 mgal. The linearity of the drift was generally good throughout the travel (Fig. 2).

The gravity value at each observation station was determined taking the gravity value at Syowa Station as the standard, which had been determined by the pendulum gravity connection through Tokyo, Cape Town, and Syowa Station as follows:

$$g \text{ Syowa} = 982.5394 \pm 0.0005 \text{ gals}$$

$$\varphi = 69^\circ 00.3' \text{ S}$$

$$\lambda = 39^\circ 35.4' \text{ E}$$

$$h = 14.0 \text{ m}$$

(HARADA *et al.*, 1963).

No tidal correction was applied, because the required correction seemed smaller than the error in the height determination.

Table 1 shows the gravity values at the respective stations and the free-air anomalies. The calculation of free-air anomaly Δg was made as follows:

$$\Delta g_0 = g_0 - \gamma_0$$

$$g_0 = g + 0.3086h \text{ (m) mgal}$$

$$\gamma_0 = 978.049(1 + 0.0052884 \sin^2 \varphi - 0.0000059 \sin^2 2\varphi) \text{ gals.}$$

The gravity value of the Plateau Station was determined at the entrance of the summer camp, and that of the South Pole under the flag showing the Geographic South Pole.

The results of calculations of the Bouguer anomaly will be reported later, referring to the thickness of ice.

Reference

- HARADA, Y., S. KAKINUMA, and I. MURATA (1963): Pendulum determination of the gravity differences between Tokyo, Mowbray and Syowa Base. *Antarctic Rec.*, **17**, 35-50.