

GL01002

Edward Ross

THE
UNIVERSITY
OF UTAH

DEPARTMENT OF GEOLOGY
AND GEOPHYSICS
COLLEGE OF MINES AND
MINERAL INDUSTRIES
717 MINERAL SCIENCE BLDG.
SALT LAKE CITY, UTAH 84112

June 13, 1980

MEMORANDUM

To: Wil Forsberg

From: Kenneth L. Cook

Subject: Transmittal of gravity data to you for the project:
"Gravity data in the Wasatch Front, Utah, area" K. L. Cook
Co-Principal Investigator.

A. Attached herewith, for your transmittal to the Utah Geological and Mineral Survey (UGMS) (after prior approval by Duncan Foley, Co-Principal Investigator) is one copy of the following for the UGMS and one copy for your files.

1. Phase I: Jordan Valley area

Notes: a. The required material for this project to date was already submitted by you to the UGMS prior to the deadline of mid-April, 1980 (for 1) the listing of the principal facts of the gravity stations -- which also included the terrain corrections -- for the Jordan Valley area and 2) the work-sheet complete Bouguer gravity anomaly map, with a contour interval of 2 milligals). ✓

b. Therefore, no more data are now required to be submitted to the UGMS on Jordan Valley. ✓

c. However, it should be emphasized that the UGMS is expected to submit any new gravity data for the Jordan Valley area to me by August 1, 1980. Also I have informally requested to Wally Gwynn and Pete Murphy that these new gravity data be tied to the University of Utah gravity base station; *and they have assured me that this will be done. ✓

2. Phase II: Utah Valley area

1. List of principal facts of gravity stations, including terrain corrections out to 100 miles (167.7 km). ✓

2. The following maps, plotted by the computer, with an "x" showing gravity station locations, at a scale of 1:62,500: ✓

a. 2 maps with designation of station numbers only.

* and should be submitted on IBM computer cards.

Calculating
plotting

- b. 2 maps with complete Bouguer gravity anomaly values only. *ok*

Note: Two maps of contiguous areas were required for the Utah Valley area at the required scale of 1:62,500.

3. Phase III: Northern Wasatch Front area

1. List of principal facts of the gravity stations, including terrain corrections out to 100 miles (167.7 km).
2. The following maps showing gravity station locations, at a scale of 1:62,500 (plotted by the computer):
 - a. Map with the designation of station numbers only.
 - b. Map with the complete Bouguer gravity anomaly values only.

B. Attached herewith, for your transmittal to the Earth Science Laboratory Division (to the attention of Howard Ross) is one copy of the following:

- Combined into 1 map* →
1. East one-quarter of the Tooele Utah 1°x2° quadrangle.
 - a. List of principal facts of the gravity stations, including terrain corrections out to 100 miles (166.7 km).
 - b. The following maps, plotted by the computer, with an "x" showing gravity station locations, at a scale of 1:62,500:
 - (1) Map with designation of station numbers only.
 - (2) Map with the complete Bouguer gravity anomaly values only.
 2. East one-quarter of the Delta, Utah 1°x2° quadrangle.
 - a. List of principal facts of the gravity stations, including terrain corrections out to 100 miles (166.7 km).
 - b. The following maps, plotted by the computer, with an "x" showing gravity station locations, at a scale of 1:62,500:
 - (1) Map with designation of station numbers only.
 - (2) Map with complete Bouguer gravity anomaly values only.

Kenneth L. Cook

Kenneth L. Cook

cc: Laura Serpa
Gary Reynolds

Memo

March 7, 1980

①

To: Howard Ross

Re: Open filing of principal facts of gravity data -- DOE funds.

Cooperative project: ESL, UGMS, & U. of Utah - G.G. Delt.

Tentative plans -

I. Phase I -- Jordan Valley -- March 1980 -- (UGMS interested)

A. Field work -- optional but desirable

Tie several base stations together - 1-2 days work only

B. Office work -- Surfa & Cook

Computer

NO terrain corrections

(by mid-April)[#] Station locations + gravity values (simple Bouguer gravity values)

continued:

II. Phase II -- Wasatch Front -- April + 1st part of May 1980 (scale: 62,500)

A. Areas:

1) Utah Valley -- UGMS interested

2) Jacob Valley -- Cook "

3) From Salt Lake Desert to Idaho state line -- UGMS interested

B. Field work

Tie several base stations together - 1-2 days work only.

C. Office work -- Surfa & Cook

Computer

NO terrain corrections.

III. Phase III -- E $\frac{1}{4}$ of 1° x 2° sheets -- Delta, Tooele, Utah - May + early June

A. Office work -- Surfa & Cook

B. NO terrain corrections

IV. Phase IV -- June 1980 -- Surfa & Cook

A. Terrain corrections of all of above data.

B. Complete (terrain-corrected) Bouguer gravity anomaly map - to be published by UGMS

Assumes Surfa full-time DOE during March 10-31, 1980

Funding

- Scholarship -- Serfs -- Student
- Computers
- Travel --

Administration

Technical supervision by Cook

Cook to report progress weekly to Howard Ross.
 Serfs to work directly under supervision of Cook

Scheduling of Source Serfs

1980 Month	(20 hrs/week) \$ 6.00/hr ± GG Debt	\$ 8.00/hr ± (20 hrs/week) D O E	DMAAC #
	March	yes *	Hand 10-31/80 yes
April	yes #	1/2 - time	1/2 time ##
May	yes #	1/2 - time	" ##
June	yes #	1/2 - time	" ##

- contingent on funding for Cook from DMAAC. would ~~cancel~~ cancel
 * = funds available in dept and no funds from DMAAC

still pending for W. 3/4 th of 1° x 2° sheet } Delta
 Toode K.L. Cook

Note: Cook may get some USGS funding for entire Brylson
 City 1° x 2° sheet. (still pending).

Approved

- 1) ward
- 2) HR
- 3) Ross
Fowley
- 4) Reynolds

MEMORANDUM

To: Wil Forsberg

April 21, 1980

From: Kenneth L. Cook

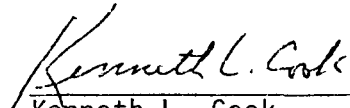
Subject: Submittal to UGMS of information concerning terrain corrections

In the research proposal dated March 21, 1980 to the Utah Geological and Mineral Survey entitled "Gravity data in the Wasatch Front area, Utah," (K.L. Cook and D. Foley, as P.I.'s) it was agreed to submit to them by May 1, 1980 the following information:

The radial distances to which the terrain corrections (if any) have been made for the stations in each of the surveys," (see footnotes to Tables 2 and 3 on the original proposal pages 9 and 12, respectively).

Attached herewith is the desired information, which is in the form of updated and amended copies of Tables 1, 2, and 3, which appeared on the original proposal on pages 6,9, and 12, respectively.

Please transmit the information to the UGMS.


Kenneth L. Cook.

CC: Laura Serpa

Table 1 --- Approximate number of stations in Jordan Valley area.

<u>Name</u>	<u>Area Designation</u>	<u>Approximate No. of Stations</u>
U. of Utah Special studies, 1978	Profiles	80 ^{1/}
Cook and Berg, 1961,1972	7	583 ^{2/}
Fox, R. C., 1979	1	183 ^{3/}
Gay, 1980	2	564 ^{4/}
Mabey et al., 1962	27	43 ^{5/}
	Total	1,453

^{1/} Terrain corrections were not made.

^{2/} Terrain corrections out to a radial distance of 6.1 miles from each station, using Hammer zone chart.

^{3/} Terrain corrections out to a radial distance of 22,000 feet from each station.

^{4/} Terrain corrections out to a radial distance of 100 miles (167km) from each station, using a computer.

^{5/} Terrain corrections out to a radial distance of 100 miles from each station.

Note: For all terrain corrections made, a density of 2.67 gm/cc was used.

Table 2 --- Approximate number of stations in Utah Valley area.

<u>Name</u>	<u>Area Designation</u>	<u>Approximate No. of Stations</u>
Cook and Berg, 1961,1972	7	332 ^{1/}

^{1/} Terrain corrections out to a radial distance of 6.1 miles, using Hammer zone chart.

Note: For all terrain corrections made, a density of 2.67 gm/cc was used.

Table 3 --- Approximate number of stations in the Northern Wasatch area.

<u>Name</u>	<u>Area Designation</u>	<u>Approximate No. of Stations</u>
U. of Utah Special studies (Cook & Groenewold, 1978, 1979)	2	40 <u>1/</u>
Cook et al., 1967	4	800 <u>2/</u>
Lum, 1970	5	
Novotny, 1970	6	
Cook and Berg, 1961; 1972	7	
Peterson, 1974	36	200 <u>3/</u>
Peterson and Oriel, 1970	39	
Total		1,040

- 1/ Terrain corrections out to a radial distance of 100 miles (167 km) from each station, using a computer.
- 2/ Terrain corrections out to a radial distance of generally 6.1 miles.
- 3/ Terrain corrections out to a radial distance of 100 miles (167 km) from each station, using a computer.

Note: For all terrain corrections made, a density of 2.67 gm/cc was used.

Listing of gravity data in Utah Valley area, Utah

All of the stations listed on the following pages have been tied to the gravity base station network in Utah (Cook et al., 1967). Because the various surveys were conducted over several years and with different instruments, the accuracy of the various surveys will vary.

The following is a listing of the station prefixes used in this listing and the source of these gravity values. Where possible the estimated accuracy is also given.

<u>Prefix</u>	<u>Taken by</u>	<u>Accuracy</u>
W	Cook and Berg, 1961	0.5 mgal
DS	Don Selk, 1975	
JR	Montgomery, 1973	

STAT.	LATITUDE	LONGITUDE	ELEV.	OBSERVED GRAVITY	THEOR. GRAVITY	FREE AIR	SIMPLE BOUGUER	T. C.	COMPLETE BOUGUER
W0833	39.57.560	112. 6.110	6583.00	979595.84	980176.87	38.17	-186.11	1.89	-184.22
W0834	39.57.530	112. 4.200	6295.00	979614.78	980176.83	30.06	-184.40	1.83	-182.57
W0835	39.56.420	112. 4.740	6172.00	979617.93	980175.18	23.28	-186.99	3.29	-183.70
W0836	39.56.090	112. 3.880	5949.00	979630.47	980174.70	15.34	-187.34	2.28	-185.06
W0857	39.55.420	111.32.780	5399.00	979635.64	980173.70	-30.23	-214.17	5.10	-209.07
W0858	39.56.580	111.32.470	5329.00	979643.45	980175.41	-30.72	-212.27	5.17	-207.10
W0859	39.58.200	111.30.510	5170.00	979655.97	980177.81	-35.55	-211.69	5.81	-205.88
W0860	39.57.300	111.40.630	6205.00	979601.84	980176.49	8.99	-202.41	10.00	-192.41
W0861	39.56.520	111.40.430	6872.00	979565.44	980175.32	36.50	-197.62	4.48	-193.14
W0862	39.56.420	111.39.230	7522.00	979525.06	980175.18	57.40	-198.87	4.45	-194.42
W0863	39.55.460	111.37.900	8041.00	979486.21	980173.77	68.78	-205.17	5.04	-200.13
W0633	39.59.160	111.45.550	4824.00	979693.22	980179.24	-32.28	-196.63	5.52	-191.11
W0634	39.58.860	111.46.070	4899.00	979689.52	980178.79	-28.37	-195.27	4.06	-191.21
W0635	39.58.920	111.50.440	4626.00	979711.19	980178.88	-32.57	-190.17	1.33	-188.84
W0636	39.57.600	111.52.100	4518.00	979706.80	980176.93	-45.17	-199.09	1.36	-197.73
W0637	39.57.160	111.55.000	4549.00	979702.65	980176.27	-45.74	-200.72	.86	-199.86
W0638	39.57.120	111.56.990	4658.00	979692.71	980176.21	-45.37	-204.06	.77	-203.29
W0639	39.57.030	112. 1.070	5264.00	979669.79	980176.08	-11.16	-190.50	1.60	-188.90
W0640	39.57.040	112. 1.850	5399.00	979653.59	980176.09	-4.67	-188.61	1.68	-186.93
W0641	39.56.860	112. 2.820	5601.00	979654.26	980175.84	5.25	-185.57	1.75	-183.82
W0642	39.56.530	112. 3.360	5746.00	979644.77	980175.34	9.90	-185.86	2.07	-183.79
W0643	39.58.510	112. 3.680	5863.00	979644.49	980178.28	17.69	-182.06	1.99	-180.07
W0644	39.59.310	112. 2.170	5474.00	979657.85	980179.46	3.27	-183.22	2.76	-180.46
W0645	39.58.780	112. .040	5069.00	979684.72	980178.67	-17.16	-189.86	1.02	-188.84
W0646	39.58.980	111.59.330	4925.00	979686.67	980178.97	-29.05	-196.84	.85	-195.99
W0647	39.58.860	111.57.400	4672.00	979697.22	980178.79	-42.12	-201.29	.69	-200.60
W0648	39.58.900	111.55.380	4517.00	979702.09	980178.85	-51.89	-205.78	.70	-205.08
W0649	39.58.460	111.54.050	4526.00	979711.42	980178.21	-41.07	-195.27	.77	-194.50
W0742	39.56.380	111.58.090	4767.00	979686.31	980175.12	-40.42	-202.83	.83	-202.00
W0743	39.56.300	112. .500	5104.00	979676.50	980175.00	-18.42	-192.31	1.42	-190.89
W0744	39.56.310	112. 1.740	5452.00	979658.75	980175.02	-3.45	-189.19	1.67	-187.52
W0745	39.55.740	111.58.990	4797.00	979685.43	980174.17	-37.54	-200.97	1.06	-199.91
W0752	39.55.340	111.57.240	4638.00	979691.52	980173.58	-45.81	-203.82	1.08	-202.74

STAT.	LATITUDE	LONGITUDE	ELEV.	OBSERVED GRAVITY	THEOR. GRAVITY	FREE AIR	SIMPLE BOUGUER	T.C.	COMPLETE BOUGUER
W0775	39.55.400	111.54.950	4755.00	979692.46	980173.68	-33.96	-195.96	.99	-194.97
W0778	39.58.060	111.47.700	5005.00	979685.11	980177.61	-21.72	-192.24	2.26	-189.98
W0779	39.57.460	111.46.720	5175.00	979670.91	980176.72	-19.05	-195.36	4.25	-191.11
W0780	39.55.660	111.48.710	4973.00	979682.62	980174.05	-23.67	-193.10	3.85	-189.25
W0781	39.55.000	111.49.110	4960.00	979680.39	980173.08	-26.15	-195.13	3.73	-191.40
W0789	39.58.360	111.41.500	5604.00	979640.63	980178.05	-10.31	-201.23	10.33	-190.90
DZ 1	39.58.120	111.30.520	5171.00	979654.05	980177.70	-37.26	-213.43	5.73	-207.70
DZ 2	39.56.600	111.32.430	5329.00	979641.22	980175.45	-32.99	-214.54	5.16	-209.38
DZ 3	39.55.460	111.32.760	5400.00	979633.29	980173.77	-32.55	-216.52	5.06	-211.45
W0577	40. 3.890	111.43.900	4550.00	979703.62	980186.24	-54.65	-209.66	1.24	-208.42
W0578	40. 5.900	111.43.820	4528.00	979706.10	980189.21	-57.21	-211.47	.90	-210.57
W0579	40. 5.900	111.40.800	4592.00	979694.35	980189.21	-62.93	-219.38	1.31	-218.07
W0580	40. 6.030	111.39.280	4585.00	979698.57	980189.40	-59.56	-215.77	1.67	-214.10
W0582	40. 6.050	111.35.810	4745.00	979693.16	980189.43	-49.95	-211.61	3.57	-208.04
W0583	40. 5.620	111.35.230	4766.00	979692.54	980188.80	-47.98	-210.35	5.24	-205.11
W0584	40. 4.830	111.35.070	4837.00	979699.33	980187.62	-43.33	-208.12	6.90	-201.22
W0585	40. 3.380	111.33.670	4860.00	979676.90	980185.48	-51.45	-217.03	18.77	-198.26
W0586	40. 2.030	111.31.160	4932.00	979672.27	980183.48	-47.31	-215.34	8.40	-206.94
W0587	40. 1.630	111.30.220	4960.00	979675.65	980182.89	-40.71	-209.69	5.52	-204.17
W0588	40. 4.420	111.36.940	4713.00	979696.88	980187.02	-46.84	-207.41	7.26	-200.15
W0589	40. 4.270	111.38.080	4675.00	979695.39	980186.79	-51.67	-210.94	3.63	-207.31
W0590	40. 4.270	111.39.720	4612.00	979694.26	980186.79	-58.72	-215.85	2.22	-213.63
W0591	40. 3.430	111.40.340	4586.00	979694.88	980185.55	-59.32	-215.56	2.53	-213.03
W0592	40. 2.670	111.42.910	4598.00	979700.07	980184.43	-51.87	-208.52	1.92	-206.60
W0593	40. .710	111.44.670	4739.00	979694.73	980181.52	-41.04	-202.49	2.82	-199.67
W0594	40. 1.870	111.44.680	4648.00	979703.21	980183.23	-42.84	-201.19	1.78	-199.41
W0595	40. 2.570	111.44.360	4631.00	979702.17	980184.27	-46.52	-204.29	1.48	-202.81
W0596	40. 3.910	111.42.380	4528.00	979696.18	980186.27	-64.19	-218.45	1.59	-216.85
W0597	40. 1.180	111.42.230	4952.00	979685.24	980182.22	-31.19	-199.90	3.23	-196.67
W0598	40. 2.030	111.42.300	4693.00	979696.91	980183.48	-45.15	-205.04	2.60	-202.44
W0599	40. 2.240	111.41.480	4694.00	979695.79	980183.79	-46.48	-206.40	2.72	-203.68
W0600	40. 1.630	111.40.310	4952.00	979681.92	980182.89	-35.19	-203.90	3.91	-199.99
W0602	40. 2.430	111.39.480	4824.00	979688.20	980184.07	-42.12	-206.47	4.00	-202.47

STAT.	LATITUDE	LONGITUDE	ELEV.	OBSERVED GRAVITY	THEOR. GRAVITY	FREE AIR	SIMPLE BOUGUER	T.C.	COMPLETE BOUGUER	
W0603	40.	2.870	111.38.340	4829.00	979688.61	980184.73	-41.90	-206.42	6.18	-200.24
W0604	40.	3.350	111.38.640	4701.00	979692.73	980185.44	-50.53	-210.69	4.32	-206.37
W0601	40.	1.640	111.39.460	5093.00	979672.42	980182.90	-31.43	-204.94	4.84	-200.10
W0605	40.	.840	111.45.730	4655.00	979702.37	980181.72	-41.50	-200.09	2.11	-197.98
W0606	40.	4.220	111.46.120	4514.00	979716.93	980186.72	-45.20	-198.99	1.11	-197.88
W0607	40.	5.870	111.46.180	4498.00	979718.78	980189.17	-47.31	-200.55	.90	-199.65
W0611	40.	5.100	111.47.220	4514.00	979719.61	980188.03	-43.83	-197.62	1.41	-196.21
W0612	40.	3.330	111.47.190	4555.00	979716.79	980185.41	-40.18	-195.36	1.38	-193.98
W0613	40.	2.450	111.47.180	4599.00	979715.25	980184.09	-36.27	-192.95	1.32	-191.63
W0614	40.	2.450	111.48.000	4757.00	979708.67	980184.09	-27.98	-190.05	1.41	-188.64
W0615	40.	4.650	111.48.220	4734.00	979710.40	980187.36	-31.68	-192.96	3.80	-189.16
W0620	40.	5.220	111.51.600	4498.00	979727.92	980188.20	-37.20	-190.44	1.74	-188.70
W0621	40.	4.440	111.51.320	4498.00	979726.91	980187.05	-37.07	-190.31	4.85	-185.46
W0622	40.	3.060	111.51.880	4613.00	979717.69	980185.00	-33.41	-190.57	1.41	-189.16
W0623	40.	2.790	111.51.690	4598.00	979720.39	980184.61	-31.73	-188.38	1.54	-186.84
W0624	40.	2.400	111.51.410	4590.00	979720.59	980184.02	-31.69	-188.07	1.55	-186.52
W0625	40.	1.980	111.50.870	4581.00	979720.51	980183.40	-32.00	-188.07	1.73	-186.34
W0626	40.	1.530	111.50.570	4511.00	979721.49	980182.74	-36.95	-190.63	1.55	-189.08
W0627	40.	.770	111.50.560	4518.00	979717.71	980181.60	-38.93	-192.85	1.13	-191.72
W0628	40.	.220	111.51.130	4518.00	979718.27	980180.79	-37.56	-191.48	1.01	-190.47
W0629	40.	.680	111.49.420	4618.00	979714.08	980181.48	-33.03	-190.36	1.33	-189.03
W0630	40.	1.960	111.48.870	5122.00	979687.92	980183.37	-13.67	-188.17	1.32	-186.85
W0631	40.	1.140	111.47.630	4761.00	979706.33	980182.16	-28.01	-190.21	1.30	-188.91
W0632	40.	.700	111.47.140	4703.00	979706.96	980181.50	-32.17	-192.40	1.57	-190.83
W0679	40.	6.100	112. 5.690	4940.00	979720.01	980189.50	-4.83	-173.13	.48	-172.65
W0682	40.	5.510	112. 2.840	5038.00	979718.57	980188.63	3.81	-167.83	.48	-167.35
W0683	40.	5.370	112. 2.030	4989.00	979720.43	980188.42	1.27	-168.70	.63	-168.07
W0685	40.	5.860	112. .070	4799.00	979727.32	980189.16	-10.44	-173.94	.43	-173.51
W0686	40.	5.350	112. .650	4847.00	979726.42	980188.40	-6.07	-171.20	.61	-170.59
W0687	40.	4.670	112. .600	4881.00	979723.81	980187.39	-4.47	-170.76	.63	-170.13
W0688	40.	3.810	112. 2.270	5092.00	979704.85	980186.12	-2.32	-175.80	.71	-175.09
W0689	40.	3.330	112. 3.830	5175.00	979697.25	980185.41	-1.39	-177.70	1.13	-176.57
W0690	40.	2.550	112. 4.880	5292.00	979687.69	980184.24	1.21	-179.08	1.25	-177.83

STAT.	LATITUDE	LONGITUDE	ELEV.	OBSERVED GRAVITY	THEOR. GRAVITY	FREE AIR	SIMPLE BOUGUER	T.C.	COMPLETE BOUGUER
W0691	40. 2.470	112. 4.230	5322.00	979689.87	980184.12	5.33	-175.98	1.57	-174.41
W0692	40. 1.030	112. 3.920	5772.00	979657.36	980182.00	18.28	-178.37	1.87	-176.50
W0693	40. .680	112. 4.190	5725.00	979658.32	980181.48	15.34	-179.71	2.01	-177.70
W0694	40. .920	112. 5.340	5675.00	979664.13	980181.84	16.08	-177.26	2.18	-175.08
W0695	40. 2.150	112. 6.240	5662.00	979667.16	980183.66	16.07	-176.83	2.33	-174.50
W0696	40. 3.280	112. 5.560	5176.00	979693.05	980185.34	-5.43	-181.77	1.23	-180.54
W0697	40. 4.520	112. 5.860	5036.00	979705.17	980187.17	-8.32	-179.89	.89	-179.00
W0698	40. 5.340	112. 6.470	5016.00	979714.76	980188.38	-1.82	-172.71	.75	-171.96
W0699	40. 4.920	112. 3.380	5038.00	979713.39	980187.76	-.49	-172.13	.50	-171.63
W0700	40. 4.260	112. 3.440	5077.00	979706.94	980186.78	-2.30	-175.27	.64	-174.63
W0701	40. 3.270	112. .310	4975.00	979706.43	980185.32	-10.95	-180.44	.56	-179.88
W0702	40. 1.030	111.59.910	4993.00	979697.36	980182.00	-14.99	-185.10	.87	-184.23
W0776	39.59.680	111.47.130	4804.00	979700.02	980180.02	-28.13	-191.80	1.84	-189.96
W0777	39.59.840	111.47.980	4756.00	979698.81	980180.25	-34.09	-196.12	1.52	-194.60
W0788	39.59.880	111.42.060	5166.00	979671.01	980180.30	-23.38	-199.38	6.95	-192.43
W0425	40. 6.010	111.58.200	4618.00	979741.82	980189.37	-13.19	-170.52	.38	-170.14
W0426	40. 5.450	111.57.480	4583.00	979738.64	980188.54	-18.82	-174.96	.36	-174.60
W0427	40. 4.880	111.57.460	4597.00	979734.43	980187.70	-20.87	-177.49	.37	-177.12
W0428	40. 4.570	111.57.470	4601.00	979732.24	980187.24	-22.23	-178.98	.39	-178.59
W0429	40. 4.560	111.58.450	4686.00	979728.94	980187.23	-17.52	-177.17	.39	-176.78
W0430	40. 5.110	111.58.930	4693.00	979729.83	980188.05	-16.79	-176.68	.40	-176.28
W0431	40. 4.570	111.55.240	4494.00	979731.84	980187.24	-32.69	-185.80	.42	-185.33
W0432	40. 5.650	111.56.350	4519.00	979735.14	980188.85	-28.65	-182.61	.37	-182.24
W0435	40. 4.580	111.56.330	4535.00	979731.65	980187.26	-29.05	-183.55	.39	-183.16
W0436	40. 4.040	111.55.180	4496.00	979731.53	980186.46	-32.04	-185.21	.44	-184.77
W0437	40. 3.400	111.54.970	4505.00	979727.30	980185.51	-34.47	-187.95	.46	-187.49
W0438	40. 3.270	111.55.470	4503.00	979726.76	980185.32	-35.01	-188.42	.47	-187.95
W0439	40. 2.030	111.55.730	4498.00	979720.48	980183.48	-39.92	-193.16	.54	-192.62
W0440	40. 1.710	111.57.450	4614.00	979713.81	980183.00	-35.20	-192.39	.57	-191.82
W0441	40. .830	111.57.450	4645.00	979708.52	980181.70	-36.27	-194.52	.60	-193.92
W0442	40. 3.230	111.57.440	4627.00	979721.09	980185.27	-28.96	-186.60	.45	-186.15
DS228	40. 9.840	111.30.000	5101.00	979672.47	980195.05	-42.78	-216.57	9.43	-207.14
DS237	40.11.500	111.32.750	7118.00	979584.89	980197.52	56.89	-185.61	7.06	-178.55

STAT.	LATITUDE	LONGITUDE	ELEV.	OBSERVED GRAVITY	THEOR. GRAVITY	FREE AIR	SIMPLE BOUGUER	T.C.	COMPLETE BOUGUER
W0539	40.10.460	111.38.190	4505.00	979705.99	980195.98	-66.25	-219.73	2.99	-216.74
W0540	40.11.290	111.38.220	4495.00	979710.53	980197.21	-63.88	-217.02	3.86	-213.16
W0541	40.12.380	111.38.470	4496.00	979718.10	980198.83	-57.84	-211.01	4.60	-206.41
W0542	40.12.900	111.38.080	4536.00	979724.40	980199.59	-48.53	-203.07	6.67	-196.40
W0543	40.13.050	111.39.470	4491.00	979717.38	980199.80	-60.01	-213.01	3.33	-209.68
W0544	40.13.210	111.40.610	4508.00	979711.50	980200.04	-64.52	-218.10	2.19	-215.91
W0554	40.12.170	111.37.360	4554.00	979720.15	980198.51	-50.01	-205.16	9.34	-195.82
W0555	40.10.330	111.36.160	4564.00	979709.80	980195.78	-56.69	-212.18	6.32	-205.86
W0556	40.10.000	111.35.140	4672.00	979703.51	980195.29	-52.33	-211.50	8.60	-202.90
W0557	40. 9.670	111.35.180	4707.00	979700.45	980194.81	-51.62	-211.98	5.68	-206.30
W0558	40. 9.210	111.34.400	4763.00	979697.92	980194.12	-48.20	-210.47	5.45	-205.02
W0559	40. 9.070	111.33.130	4860.00	979692.82	980193.92	-43.97	-209.55	7.97	-201.58
W0560	40. 9.320	111.32.310	4935.00	979691.58	980194.28	-48.52	-216.65	13.52	-203.13
W0561	40. 9.830	111.30.000	5101.00	979672.56	980195.04	-42.67	-216.46	9.51	-206.95
W0562	40. 8.040	111.33.540	4849.00	979691.13	980192.39	-45.16	-210.36	6.27	-204.09
W0563	40. 7.810	111.34.890	4717.00	979695.30	980192.04	-53.06	-213.76	3.95	-209.81
W0564	40. 6.940	111.34.680	4748.00	979693.54	980190.76	-50.62	-212.38	5.09	-207.29
W0565	40. 6.930	111.35.830	4714.00	979692.50	980190.74	-54.84	-215.44	3.13	-212.31
W0566	40. 7.820	111.38.980	4539.00	979697.88	980192.05	-67.24	-221.88	1.64	-220.24
W0567	40. 7.820	111.41.310	4538.00	979696.28	980192.05	-68.94	-223.54	1.08	-222.46
W0568	40. 7.740	111.43.790	4511.00	979707.61	980191.94	-60.03	-213.71	.79	-212.92
W0569	40. 8.180	111.44.920	4494.00	979716.87	980192.59	-53.01	-206.12	.70	-205.42
W0570	40. 8.610	111.43.800	4501.00	979707.48	980193.23	-62.39	-215.73	.78	-214.95
W0571	40. 9.490	111.42.640	4498.00	979700.94	980194.53	-70.51	-223.75	.94	-222.81
W0572	40. 9.500	111.41.530	4506.00	979698.18	980194.55	-72.53	-226.05	1.12	-224.93
W0573	40. 9.500	111.40.390	4507.00	979697.65	980194.55	-72.97	-226.52	1.40	-225.12
W0574	40. 9.670	111.39.350	4502.00	979699.84	980194.81	-71.51	-224.89	1.81	-223.08
W0575	40.10.480	111.39.760	4492.00	979701.96	980196.00	-71.52	-224.56	1.87	-222.69
W0576	40. 8.010	111.37.130	4618.00	979695.76	980192.34	-62.22	-219.55	2.27	-217.28
W0581	40. 6.490	111.36.680	4729.00	979692.50	980190.09	-52.78	-213.89	2.63	-211.26
W0608	40. 6.830	111.46.090	4496.00	979720.99	980190.59	-46.71	-199.88	.76	-199.12
W0609	40. 8.150	111.46.660	4492.00	979726.48	980192.55	-43.55	-196.59	.63	-195.96
W0610	40. 6.840	111.47.780	4497.00	979730.45	980190.61	-37.17	-190.38	1.43	-188.95

STAT.	LATITUDE	LONGITUDE	ELEV.	OBSERVED GRAVITY	THEOR. GRAVITY	FREE AIR	SIMPLE BOUGUER	T.C.	COMPLETE BOUGUER
W0616	40. 7.930	111.48.750	4877.00	979712.52	980192.23	-20.97	-187.13	1.42	-185.71
W0617	40. 8.690	111.48.390	4526.00	979735.33	980193.35	-32.30	-186.50	.59	-185.91
W0618	40. 8.290	111.49.500	4511.00	979735.89	980192.75	-32.55	-186.24	.87	-185.37
W0619	40. 6.840	111.50.610	4624.00	979727.22	980190.61	-28.45	-185.99	2.10	-183.89
W0650	40. 7.980	112. 1.780	4893.00	979728.61	980192.30	-3.46	-170.16	.24	-169.92
W0651	40. 9.140	112. 1.910	4859.00	979718.09	980194.02	-18.90	-184.44	.21	-184.23
W0652	40. 9.550	112. .300	4927.00	979720.87	980194.63	-10.33	-178.19	.25	-177.94
W0653	40.10.870	112. .300	4878.00	979727.32	980196.59	-10.44	-176.63	.50	-176.13
W0654	40.12.070	112. .950	4839.00	979725.29	980198.37	-17.92	-182.78	.47	-182.31
W0655	40.12.850	112. .050	4860.00	979725.70	980199.52	-15.68	-181.26	.77	-180.49
W0657	40.13.080	112. 2.610	4831.00	979723.28	980199.85	-22.17	-186.76	.35	-186.41
W0659	40.11.330	112. 1.870	4840.00	979724.49	980197.27	-17.54	-182.43	.30	-182.13
W0660	40.10.170	112. 1.580	4856.00	979720.74	980195.55	-18.06	-183.50	.25	-183.25
W0661	40. 7.530	112. 1.500	4930.00	979725.61	980191.63	-1.31	-169.27	.24	-169.03
W0662	40. 7.590	112. 2.700	4895.00	979721.30	980191.72	-9.99	-176.76	.28	-176.48
W0663	40. 8.080	112. 4.370	4882.00	979720.54	980192.45	-12.71	-179.03	.31	-178.72
W0664	40. 8.680	112. 5.680	4882.00	979721.66	980193.34	-12.48	-178.80	.30	-178.50
W0665	40. 9.420	112. 5.670	4869.00	979719.96	980194.43	-16.49	-182.37	.29	-182.08
W0666	40.10.710	112. 5.660	4862.00	979722.11	980196.35	-16.93	-182.57	.33	-182.24
W0667	40.11.810	112. 5.660	4869.00	979721.81	980197.98	-18.20	-184.08	.35	-183.73
W0668	40.13.050	112. 5.650	4869.00	979722.74	980199.80	-19.09	-184.97	.40	-184.57
W0669	40.13.020	112. 4.230	4842.00	979724.37	980199.77	-19.96	-184.92	.34	-184.58
W0673	40.12.620	112. 6.010	4880.00	979722.84	980199.18	-17.32	-183.58	.42	-183.16
W0674	40.10.900	112. 6.590	4896.00	979727.42	980196.63	-8.70	-175.50	.51	-174.99
W0675	40.10.000	112. 6.930	4893.00	979727.23	980195.29	-7.82	-174.52	.53	-173.99
W0676	40. 9.290	112. 6.980	4906.00	979725.34	980194.24	-7.45	-174.59	.49	-174.10
W0677	40. 8.190	112. 6.890	4911.00	979725.47	980192.61	-5.21	-172.52	.43	-172.09
W0678	40. 6.360	112. 6.520	4981.00	979722.09	980189.90	.71	-168.99	.48	-168.51
W0680	40. 6.340	112. 4.620	4929.00	979719.02	980189.87	-7.22	-175.15	.39	-174.76
W0681	40. 6.700	112. 3.270	4944.00	979721.54	980190.41	-3.83	-172.27	.36	-171.91
W0684	40. 6.610	112. 1.460	4958.00	979722.70	980190.26	-1.21	-170.12	.32	-169.80
W0718	40.11.420	112. 4.160	5615.00	979688.78	980197.41	19.52	-171.78	9.54	-162.24
W0402	40.12.880	111.53.200	4728.00	979742.50	980199.56	-12.35	-173.43	1.56	-171.87

STAT.	LATITUDE	LONGITUDE	ELEV.	OBSERVED GRAVITY	THEOR. GRAVITY	FREE AIR	SIMPLE BOUGUER	T. C.	COMPLETE BOUGUER
W0404	40.11.450	111.53.920	4560.00	979749.65	980197.45	-18.88	-174.24	1.13	-173.11
W0405	40.11.080	111.54.560	4629.00	979744.26	980196.89	-17.22	-174.93	1.07	-173.86
W0406	40.10.250	111.56.050	4649.00	979742.00	980195.67	-16.38	-174.77	.73	-174.04
W0407	40.10.440	111.56.690	4765.00	979735.66	980195.95	-12.09	-174.43	.79	-173.64
W0408	40. 9.700	111.56.920	4648.00	979737.53	980194.85	-20.13	-178.48	.55	-177.93
W0409	40. 9.280	111.57.500	4667.00	979735.51	980194.23	-19.74	-178.74	.47	-178.27
W0410	40. 8.510	111.57.500	4643.00	979743.77	980193.09	-12.60	-170.78	.38	-170.40
W0411	40. 8.520	111.59.530	4811.00	979730.51	980193.10	-10.06	-173.97	.34	-173.63
W0412	40. 7.630	111.57.500	4561.00	979747.84	980191.77	-14.92	-170.31	.43	-169.88
W0413	40. 8.150	111.56.240	4493.00	979746.50	980192.55	-23.44	-176.51	.41	-176.10
W0414	40. 8.760	111.56.930	4574.00	979743.53	980193.45	-19.69	-175.52	.42	-175.10
W0415	40. 9.030	111.56.360	4543.00	979740.96	980193.86	-25.59	-180.36	.47	-179.89
W0416	40. 9.370	111.56.370	4575.00	979740.26	980194.36	-23.77	-179.64	.51	-179.13
W0424	40. 6.750	111.57.500	4558.00	979744.56	980190.48	-17.19	-172.48	.40	-172.08
W0433	40. 6.320	111.56.360	4512.00	979738.51	980189.84	-26.93	-180.65	.36	-180.29
W0434	40. 6.750	111.56.360	4501.00	979741.40	980190.48	-25.71	-179.06	.37	-178.69
JR18	40. 8.490	111.30.280	6187.00	979590.55	980193.06	-20.57	-231.35	4.02	-227.33
DS239	40.16.210	111.35.090	6950.00	979582.98	980204.48	32.21	-204.57	11.70	-192.87
DS238	40.17.500	111.36.230	7530.00	979550.34	980206.41	52.21	-204.33	12.08	-192.25
W0916	40.19.770	111.31.620	5858.00	979646.71	980209.77	-12.06	-211.64	9.01	-202.63
W0917	40.19.850	111.37.130	4997.00	979703.53	980209.89	-36.35	-206.59	18.04	-188.55
W0545	40.14.040	111.42.730	4496.00	979710.75	980201.28	-67.64	-220.81	1.38	-219.43
W0546	40.13.600	111.42.740	4493.00	979709.58	980200.62	-68.44	-221.51	1.32	-220.19
W0547	40.14.280	111.44.080	4490.00	979712.21	980201.63	-67.09	-220.06	1.07	-218.99
W0548	40.14.560	111.41.670	4528.00	979712.89	980202.04	-63.25	-217.51	1.87	-215.64
W0549	40.15.350	111.42.540	4530.00	979715.05	980203.22	-62.08	-216.41	1.62	-214.79
W0550	40.15.630	111.42.940	4524.00	979716.40	980203.62	-61.70	-215.83	1.54	-214.29
W0551	40.15.620	111.40.800	4704.00	979711.19	980203.61	-49.96	-210.22	2.56	-207.66
W0552	40.15.160	111.38.540	4706.00	979718.71	980202.94	-41.58	-201.91	6.65	-195.26
W0553	40.14.020	111.38.590	4545.00	979723.32	980201.25	-50.43	-205.27	6.06	-199.21
W0656	40.14.240	111.59.720	4867.00	979726.95	980201.57	-16.83	-182.64	1.32	-181.32
W0658	40.13.760	112. 2.730	4844.00	979722.53	980200.86	-22.60	-187.63	.37	-187.26
W0670	40.14.500	112. 3.860	4854.00	979726.29	980201.95	-19.10	-184.47	.41	-184.06

STAT.	LATITUDE	LONGITUDE	ELEV.	OBSERVED GRAVITY	THEOR. GRAVITY	FREE AIR	SIMPLE BOUGUER	T.C.	COMPLETE BOUGUER
W0672	40.14.380	112. 6.050	4907.00	979725.94	980201.77	-14.28	-181.46	.51	-180.95
W0734	40.19.930	111.59.670	5006.00	979728.70	980210.01	-10.44	-180.99	.86	-180.13
W0735	40.18.980	111.59.570	4935.00	979730.69	980208.61	-13.73	-181.86	1.10	-180.76
W0736	40.18.110	111.59.540	4892.00	979734.27	980207.31	-12.90	-179.57	1.49	-178.08
W0737	40.17.390	111.59.510	4899.00	979735.04	980206.25	-10.41	-177.31	1.59	-175.72
W0738	40.16.380	111.59.590	4868.00	979734.51	980204.75	-12.35	-178.20	1.68	-176.52
W0739	40.15.680	111.59.600	4845.00	979733.11	980203.71	-14.88	-179.94	1.78	-178.16
W0358	40.19.640	111.45.550	4506.00	979720.77	980209.59	-64.98	-218.50	1.69	-216.81
W0359	40.20.010	111.44.280	4541.00	979725.20	980210.14	-57.81	-212.52	2.44	-210.08
W0360	40.20.020	111.43.440	4640.00	979723.15	980210.16	-50.57	-208.65	2.84	-205.81
W0361	40.20.020	111.42.760	4739.00	979720.73	980210.16	-43.68	-205.13	3.25	-201.88
W0362	40.20.020	111.41.630	4854.00	979719.72	980210.16	-33.87	-199.24	4.46	-194.79
W0363	40.20.100	111.40.870	5097.00	979707.82	980210.27	-23.03	-196.68	5.62	-191.06
W0364	40.18.260	111.42.270	4749.00	979716.79	980207.53	-44.05	-205.84	2.34	-203.50
W0365	40.18.260	111.43.410	4624.00	979720.99	980207.53	-51.61	-209.14	1.89	-207.25
W0366	40.17.390	111.43.400	4584.00	979721.05	980206.25	-54.03	-210.20	1.66	-208.54
W0367	40.17.170	111.44.330	4527.00	979721.72	980205.91	-58.38	-212.61	1.38	-211.23
W0368	40.17.380	111.45.130	4506.00	979720.97	980206.23	-61.43	-214.94	1.23	-213.71
W0369	40.17.830	111.44.750	4522.00	979722.50	980206.89	-59.05	-213.11	1.41	-211.70
W0370	40.17.820	111.45.510	4508.00	979720.86	980206.87	-62.00	-215.58	1.23	-214.35
W0371	40.18.230	111.45.640	4506.00	979720.72	980207.48	-62.93	-216.44	1.29	-215.15
W0372	40.19.000	111.45.810	4506.00	979720.36	980208.64	-64.44	-217.96	1.41	-216.55
W0373	40.16.850	111.43.820	4531.00	979720.82	980205.45	-58.44	-212.81	1.45	-211.36
W0374	40.16.520	111.43.600	4534.00	979719.68	980204.95	-58.80	-213.27	1.45	-211.82
W0375	40.16.520	111.42.810	4585.00	979719.36	980204.95	-55.32	-211.53	1.68	-209.85
W0376	40.16.510	111.42.230	4712.00	979711.59	980204.94	-50.14	-210.67	1.98	-208.69
W0377	40.17.400	111.42.250	4747.00	979713.87	980206.27	-45.89	-207.62	2.22	-205.40
W0378	40.18.270	111.40.540	4826.00	979718.66	980207.55	-34.95	-199.37	3.36	-196.01
W0379	40.18.930	111.39.220	4828.00	979724.70	980208.54	-29.71	-194.20	6.77	-187.43
W0380	40.19.270	111.38.910	4850.00	979722.72	980209.03	-30.12	-195.35	8.73	-186.62
W0381	40.17.870	111.39.180	4838.00	979720.00	980206.96	-31.89	-196.72	5.52	-191.20
W0382	40.17.020	111.39.070	4783.00	979718.69	980205.70	-37.12	-200.07	5.51	-194.56
W0383	40.16.100	111.38.510	4840.00	979713.61	980204.33	-35.47	-200.36	6.76	-193.60

STAT.	LATITUDE	LONGITUDE	ELEV.	OBSERVED GRAVITY	THEOR. GRAVITY	FREE AIR	SIMPLE BOUGUER	T. C.	COMPLETE BOUGUER
W0384	40.16.970	111.39.510	4691.00	979723.12	980205.62	-41.27	-201.09	4.63	-196.46
W0385	40.17.340	111.39.470	4721.00	979723.84	980206.18	-38.28	-199.12	4.84	-194.28
W0386	40.18.050	111.39.770	4760.00	979724.19	980207.23	-35.31	-197.48	4.48	-193.00
W0387	40.16.960	111.40.070	4699.00	979721.28	980205.61	-42.34	-202.43	3.58	-198.85
W0388	40.17.380	111.40.520	4787.00	979716.49	980206.23	-39.48	-202.57	3.02	-199.55
W0389	40.17.380	111.41.460	4761.00	979715.48	980206.23	-42.94	-205.14	2.37	-202.77
W0390	40.16.940	111.41.260	4756.00	979714.56	980205.58	-43.67	-205.70	2.40	-203.30
W0391	40.18.980	111.53.660	4590.00	979751.27	980208.61	-25.60	-181.98	1.45	-180.53
W0392	40.17.470	111.52.690	4594.00	979750.61	980206.37	-23.65	-180.16	1.62	-178.54
W0393	40.15.720	111.52.720	4807.00	979739.25	980203.77	-12.38	-176.15	2.43	-173.72
W0394	40.15.100	111.52.680	5085.00	979722.20	980202.84	-2.34	-175.58	2.16	-173.42
W0395	40.14.910	111.52.770	5150.00	979717.81	980202.56	-.34	-175.80	2.54	-173.26
W0396	40.16.050	111.53.980	5445.00	979699.83	980204.25	7.74	-177.77	3.69	-174.08
W0397	40.16.510	111.53.120	4884.00	979734.13	980204.94	-11.42	-177.81	2.16	-175.65
W0398	40.15.930	111.51.220	4502.00	979750.03	980204.08	-30.59	-183.97	1.12	-182.85
W0399	40.15.780	111.51.980	4620.00	979747.65	980203.86	-21.65	-179.05	1.66	-177.39
W0400	40.14.780	111.52.000	4628.00	979746.39	980202.37	-20.68	-178.35	2.65	-175.70
W0401	40.13.440	111.52.570	4647.00	979747.21	980200.37	-16.07	-174.39	1.65	-172.74
W0403	40.13.290	111.53.630	4944.00	979728.96	980200.16	-6.16	-174.60	2.18	-172.42
W0419	40.19.970	111.54.670	4555.00	979755.33	980210.07	-26.30	-181.48	1.40	-180.08
W0420	40.19.780	111.54.450	4593.00	979752.55	980209.79	-25.22	-181.70	1.30	-180.40
W0421	40.19.130	111.55.930	5124.00	979722.36	980208.83	-4.50	-179.07	2.32	-176.75
W0422	40.18.510	111.55.060	5135.00	979719.66	980207.91	-5.26	-180.20	2.80	-177.40
W0423	40.17.280	111.53.420	4882.00	979733.96	980206.08	-12.91	-179.24	2.20	-177.04
W0456	40.16.600	112. 7.280	5121.00	979722.80	980205.07	-.59	-175.06	1.30	-173.75
W0464	40.18.860	112. 7.250	5487.00	979698.38	980208.42	6.07	-180.87	2.70	-178.17
W0465	40.15.660	112. 5.560	4876.00	979730.44	980203.67	-14.60	-180.72	.66	-180.06
W0468	40.16.360	112. 4.660	4860.00	979725.04	980204.72	-22.55	-188.12	.70	-187.42
W0469	40.17.840	112. 3.010	4858.00	979726.54	980206.91	-23.42	-188.93	.75	-188.18
W0470	40.18.520	112. 2.300	4864.00	979731.24	980207.92	-19.18	-184.89	.81	-184.08
W0471	40.19.260	112. 1.620	4887.00	979732.25	980209.02	-17.10	-183.59	.80	-182.79
W0904	40.21.880	111.33.340	5218.00	979689.37	980212.91	-32.73	-210.50	17.92	-192.58
W0913	40.21.380	111.34.380	5196.00	979690.87	980212.16	-32.56	-209.58	16.20	-193.38

STAT.	LATITUDE	LONGITUDE	ELEV.	OBSERVED GRAVITY	THEOR. GRAVITY	FREE AIR	SIMPLE BOUGUER	T.C.	COMPLETE BOUGUER
W0914	40.20.890	111.32.690	5465.00	979670.90	980211.44	-26.50	-212.69	14.86	-197.83
W0915	40.20.140	111.31.350	5675.00	979655.97	980210.33	-20.57	-213.91	11.38	-202.53
W0324	40.21.670	111.43.100	4780.00	979724.56	980212.60	-38.43	-201.28	5.50	-195.78
W0323	40.21.840	111.44.280	4623.00	979731.09	980212.85	-46.92	-204.42	3.95	-200.47
W0325	40.21.670	111.42.310	5062.00	979709.86	980212.60	-26.61	-199.07	7.22	-191.85
W0333	40.22.160	111.54.930	4522.00	979755.50	980213.34	-32.40	-186.46	.94	-185.52
W0334	40.22.150	111.56.080	4609.00	979752.79	980213.32	-27.01	-184.03	.95	-183.08
W0335	40.21.810	111.56.900	4774.00	979743.56	980212.80	-20.11	-182.75	.79	-181.96
W0336	40.21.740	111.59.020	4885.00	979738.90	980212.70	-14.32	-180.75	.84	-179.91
W0337	40.21.290	111.54.930	4543.00	979755.24	980212.04	-29.48	-184.26	.90	-183.36
W0338	40.21.290	111.54.060	4499.00	979756.07	980212.04	-32.79	-186.07	.88	-185.19
W0339	40.21.600	111.53.750	4493.00	979753.28	980212.50	-36.61	-189.68	.87	-188.81
W0340	40.21.740	111.53.220	4493.00	979747.88	980212.70	-42.21	-195.28	.86	-194.42
W0341	40.21.900	111.53.150	4494.00	979746.59	980212.94	-43.64	-196.75	.87	-195.88
W0342	40.22.200	111.48.030	4567.00	979723.21	980213.39	-60.61	-216.20	1.54	-214.66
W0343	40.21.150	111.48.770	4492.00	979721.92	980211.83	-67.39	-220.43	1.20	-219.23
W0344	40.21.910	111.49.820	4498.00	979726.19	980212.95	-63.68	-216.92	1.14	-215.78
W0345	40.22.110	111.50.620	4496.00	979729.39	980213.24	-60.96	-214.13	1.05	-213.08
W0346	40.21.880	111.50.910	4493.00	979730.25	980212.91	-60.05	-213.12	.99	-212.13
W0347	40.21.900	111.51.400	4497.00	979732.40	980212.94	-57.55	-210.76	.95	-209.81
W0348	40.21.620	111.51.740	4490.00	979734.90	980212.53	-55.30	-208.27	.91	-207.36
W0349	40.21.900	111.51.980	4498.00	979735.74	980212.94	-54.12	-207.36	.91	-206.45
W0350	40.20.760	111.48.230	4491.00	979719.53	980211.25	-69.30	-222.30	1.23	-221.07
W0351	40.20.600	111.48.050	4490.00	979718.75	980211.02	-69.94	-222.91	1.24	-221.67
W0352	40.20.860	111.47.660	4498.00	979719.27	980211.39	-69.04	-222.28	1.38	-220.90
W0353	40.20.860	111.47.080	4501.00	979719.56	980211.39	-68.47	-221.81	1.56	-220.25
W0354	40.21.320	111.46.390	4523.00	979722.06	980212.08	-64.59	-218.68	1.95	-216.73
W0355	40.21.320	111.47.090	4523.00	979720.76	980212.08	-65.89	-219.98	1.67	-218.31
W0356	40.20.870	111.46.410	4505.00	979720.10	980211.41	-67.57	-221.05	1.79	-219.26
W0357	40.20.650	111.45.530	4501.00	979721.66	980211.09	-66.06	-219.41	2.13	-217.28
W0417	40.20.850	111.54.930	4549.00	979755.16	980211.38	-28.34	-183.32	.98	-182.34
W0418	40.20.220	111.54.900	4559.00	979755.15	980210.45	-26.48	-181.80	1.23	-180.57
W0444	40.21.420	112. 3.450	5108.00	979721.96	980212.23	-9.81	-183.83	1.11	-182.72

STAT.	LATITUDE	LONGITUDE	ELEV.	OBSERVED GRAVITY	THEOR. GRAVITY	FREE AIR	SIMPLE BOUGUER	T.C.	COMPLETE BOUGUER
W0461	40.20.880	112. 4.690	5093.00	979725.18	980211.42	-7.20	-180.71	1.60	-179.11
W0463	40.20.900	112. 5.740	5255.00	979712.79	980211.45	-4.38	-183.41	2.40	-181.01