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DEPARTMENT OF NATURAL RESOURCES

DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS

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Report of Investigations 86-1

PRELIMINARY GRAVITY DATA OF THE MINCHUMINA BASIN, SOUTHCENTRAL ALASKA

By
J.F. Meyer and D.L. Krouskop

STATE OF ALASKA
Department of Natural Resources
DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS

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PRELIMINARY GRAVITY DATA OF THE MINCHUMINA BASIN, SOUTHCENTRAL ALASKA

By
J.F. Meyer and D.L. Krouskop[1]

INTRODUCTION

The Minchumina Basin is a subarctic plain located southwest of Lake Minchumina in the upper portion of the Kuskokwim River drainage area. Although this basin is in the initial stages of exploration, it is one of the few areas in interior Alaska where oil and gas might be discovered. The basin is bound on the southeast by the Denali fault system, including the Farewell fault, and on the northwest by the Nixon Fork fault system.

From 1981 to 1983, the Division of Geological and Geophysical Surveys (DGGS) conducted a surface gravity survey that complements and extends gravity data obtained from the U.S. Geological Survey (USGS). This report presents the reduced data in tabular form and the contoured free-air gravity map and the terrain-corrected Bouguer gravity map (sheets 1 and 2).

GRAVITY-DATA ACQUISITION AND REDUCTION

The gravity analysis of this area is based on information we collected from 510 stations during the summers of 1981 and 1983 and information from 387 stations previously obtained by D.F. Barnes (USGS). The latter data were provided as digitized gravity field data on magnetic tape from the USGS gravity library. Some USGS stations were reoccupied to compare data sets collected by both agencies.

Datum control for all gravity values was provided by the USGS Alaskan Gravity Base Station Network (Barnes, 1968; 1972) and was adjusted to the new absolute datum of the International Gravity Standardization Net 1971 (Morelli and others, 1974). The new data were tied into this network by establishing two field base stations: one at Farewell Landing Field and the other at Farewell Lake Lodge.

A LaCoste and Romberg gravity meter (G-507) was used to establish the new gravity stations. During the field surveys, the gravity meter appeared to function properly, and a maximum drift of 0.5 mgal/day indicates there were no apparent tares in the data.

Three altimeters (American Paulin Model T-5) were used to determine elevations for the new surveys. The three readings were averaged at each station and corrected for diurnal barometric variations using data from a base-station micro-barograph (American Paulin Model SMB-5) located at Farewell Lake Lodge. Where feasible, the gravity stations were located at U.S. Coast and Geodetic Survey Vertical Angle Benchmarks (VABM) for elevation control. Temperature and drift corrections were also applied and yielded elevations with an accuracy of ±30 ft. Many types of elevation control were

[1]DGGS, P.O. Box 7028, Anchorage, Alaska 99510.

used to reduce the USGS data. Some elevations were calculated from field altimetry measurements; others were calculated from river gradients derived from topographic maps. The altimetry analysis indicates that 90 percent of the data are accurate to ±50 ft (Barnes, 1977).

Gravity reductions were run on all data (including the data obtained from the USGS) using standard techniques, including a latitude correction defined by the new ellipsoid obtained from the 1967 Geodetic Reference System (International Association of Geodesy, 1971). A density of 2.62 gm/cc, which was used for the Bouguer correction over the entire area, was obtained by averaging the densities of 195 representative rocks from the area (standard deviation ±0.21 gm/cc). Terrain corrections were calculated using a USGS computer program and digitized topographic data. Terrain corrections varied from 0 to 0.5 mgal in the basin to 24.71 mgal in the mountains. To check the accuracy of the computer corrections, hand-calculated terrain corrections were determined for several stations and compared to the computer corrections. The comparison was excellent, with a maximum difference of 0.25 mgal. The precision of the Bouguer anomaly values is primarily dependent on the elevation and is estimated at ±3 mgal based on the 50-ft accuracy of the older data. Data for the new gravity stations are given in table 1; elevations represent the altimeter elevation. For comparison with other data sets, the complete Bouguer anomaly is given for a density of 2.67 gm/cc as well as a calculated density of 2.62 gm/cc.

A free-air gravity map and a terrain-corrected Bouguer gravity map were produced incorporating both data sets (sheets 1 and 2). Because the new and old gravity values closely agree for those stations occupied by the USGS and DGGS, no problems arose in contouring the data.

ACKNOWLEDGMENTS

We gratefully acknowledge B.K. Wilson (DGGS) for his assistance in collecting and reducing this data and the cooperation of D.F. Barnes in making his data available to us. We also thank S.M. Weum (DGGS) for reviewing the manuscript.

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Table 1. Data for new gravity stations occupied in the Minchumina Basin, Alaska.

Station	Latitude	Longitude	Elev. (ft)[a]	Observed	FAA	CBA(2.62)	CBA(2.67)
M 1	62 28.74	153 30.22	1110	981998.37	-3.82	-38.67	-39.33
M 2	62 29.20	153 30.66	1100	982001.37	-2.29	-36.95	-37.61
M 3	62 29.57	153 31.00	1081	982004.87	-1.09	-35.31	-35.96
M 4	62 30.14	153 31.78	1062	982007.87	-0.49	-34.49	-35.14
M 5	62 30.92	153 31.55	1045	982008.69	-2.32	-36.11	-36.76
M 6	62 31.52	153 32.92	1042	982010.62	-1.38	-35.34	-35.98
M 7	62 32.14	153 33.98	1025	982014.19	-0.18	-33.71	-34.35
M 8	62 32.72	153 34.95	1020	982019.12	3.57	-29.88	-30.52
M 9	62 33.82	153 35.02	1004	982024.37	6.01	-27.11	-27.74
M 10	62 34.88	153 35.74	988	982031.37	10.10	-22.54	-23.16
M 11	62 35.65	153 37.10	965	982037.62	13.17	-18.70	-19.31
M 12	62 36.41	153 37.48	949	982041.87	15.08	-16.35	-16.95
M 13	62 36.74	153 39.89	924	982042.81	13.15	-17.45	-18.04
M 14	62 37.09	153 41.50	913	982047.12	16.10	-14.14	-14.72
M 15	62 37.57	153 43.41	892	982048.63	14.97	-14.50	-15.06
M 16	62 38.47	153 43.95	879	982050.87	15.01	-14.20	-14.76
M 17	62 39.41	153 45.09	867	982053.37	15.18	-13.65	-14.20
M 18	62 40.11	153 46.09	849	982054.81	14.05	-14.19	-14.73
M 19	62 41.02	153 47.42	821	982058.81	14.26	-12.95	-13.47
M 20	62 41.85	153 47.77	819	982060.62	14.84	-12.42	-12.94
M 21	62 42.51	153 48.20	803	982064.81	16.69	-10.06	-10.57
M 22	62 43.33	153 49.42	785	982067.50	16.69	-9.46	-9.96
M 23	62 43.86	153 50.25	772	982073.19	20.54	-5.19	-5.68
M 24	62 44.45	153 50.77	754	982079.13	24.06	-1.03	-1.51
M 25	62 44.94	153 52.98	731	982064.87	7.09	-17.27	-17.73
M 26	62 45.67	153 54.75	718	982064.69	4.70	-19.27	-19.73
M 27	62 46.51	153 56.52	702	982065.12	2.63	-20.80	-21.25
M 28	62 47.23	153 57.14	677	982066.87	1.18	-21.41	-21.84
M 29	62 47.68	153 58.37	669	982067.87	0.85	-21.46	-21.89
M 30	62 48.41	153 59.18	641	982069.81	-0.83	-22.20	-22.61
M 31	62 48.82	153 59.21	624	982071.87	-0.81	-21.61	-22.01
M 32	62 49.44	153 59.86	618	982074.38	0.44	-20.20	-20.59
M 33	62 50.24	154 0.53	597	982076.37	-0.51	-20.45	-20.83
M 34	62 51.15	154 0.18	587	982078.87	-0.15	-19.75	-20.12
M 35	62 52.01	154 0.27	568	982082.12	0.21	-18.75	-19.11
M 36	62 52.34	154 1.69	562	982084.50	1.68	-17.08	-17.44
M 37	62 53.19	154 2.11	549	982086.31	1.21	-17.11	-17.46
M 38	62 53.90	154 3.92	544	982087.31	0.85	-17.32	-17.66
M 39	62 54.62	154 5.33	525	982088.62	-0.54	-18.08	-18.41
M 40	62 55.41	154 6.43	520	982092.31	1.77	-15.60	-15.93
M 41	62 56.29	154 7.22	512	982093.69	1.32	-15.79	-16.11
M 42	62 57.01	154 8.54	498	982092.87	-1.67	-18.31	-18.63
M 43	62 57.70	154 10.00	493	982092.12	-3.85	-20.33	-20.65
M 44	62 58.23	154 11.62	491	982091.19	-5.56	-21.98	-22.29
M 45	62 58.91	154 13.09	481	982091.19	-7.35	-23.43	-23.74
M 46	62 59.48	154 14.56	474	982093.62	-6.33	-22.17	-22.48

[a] Elevations represent the altimeter elevation.

Table 1 (con.)

Station	Latitude	Longitude	Elev. (ft)[a]	Observed	FAA	CBA(2.62)	CBA(2.67)
M 47	63 0.21	154 16.54	459	982095.81	-6.41	-21.75	-22.04
M 48	63 0.62	154 18.14	465	982100.31	-1.89	-17.42	-17.72
M 49	62 59.89	154 19.48	462	982099.19	-2.32	-17.75	-18.05
M 50	62 20.64	154 3.48	1722	981962.00	27.43	-24.27	-25.26
M 51	62 22.09	154 4.99	1640	981966.87	22.80	-24.21	-25.10
M 52	62 21.27	154 4.37	1661	981965.00	23.89	-24.17	-25.08
M 53	62 22.92	154 5.56	1583	981973.87	23.45	-23.72	-24.62
M 54	62 23.60	154 6.82	1529	981981.31	24.94	-21.75	-22.64
M 55	62 24.34	154 7.70	1491	981982.88	22.06	-24.92	-25.82
M 56	62 25.05	154 8.77	1454	981984.31	19.05	-27.75	-28.65
M 57	62 25.51	154 10.37	1399	981983.31	12.31	-33.09	-33.95
M 58	62 26.22	154 11.26	1364	981984.37	9.20	-35.41	-36.27
M 59	62 27.06	154 11.86	1317	981988.12	7.49	-35.80	-36.62
M 60	62 27.96	154 12.68	1276	981993.12	7.54	-34.51	-35.32
M 61	62 28.85	154 13.49	1242	981998.37	8.51	-32.63	-33.42
M 62	62 29.37	154 14.68	1192	982005.31	10.03	-29.46	-30.21
M 63	62 29.95	154 16.17	1142	982018.62	17.88	-20.01	-20.73
M 64	62 30.69	154 17.07	1105	982025.13	20.05	-16.73	-17.43
M 65	62 31.43	154 18.35	1066	982032.50	22.88	-12.66	-13.33
M 66	62 32.20	154 19.27	1025	982036.81	22.36	-11.83	-12.48
M 67	62 32.85	154 20.15	982	982041.87	22.63	-10.14	-10.76
M 68	62 33.49	154 21.74	933	982043.81	19.13	-12.00	-12.60
M 69	62 34.24	154 22.26	880	982048.50	17.85	-11.52	-12.08
M 70	62 34.94	154 22.28	854	982052.37	18.44	-10.06	-10.60
M 71	62 35.27	154 24.01	812	982054.87	16.67	-10.44	-10.96
M 72	62 35.81	154 25.61	765	982058.87	15.52	-10.02	-10.51
M 73	62 36.66	154 26.33	722	982063.69	15.23	-8.88	-9.34
M 74	62 37.43	154 27.59	683	982068.87	15.76	-7.04	-7.48
M 75	62 37.79	154 29.37	647	982071.31	14.30	-7.31	-7.72
M 76	62 38.43	154 30.45	621	982074.31	14.05	-6.69	-7.08
M 77	62 39.16	154 31.85	586	982075.50	11.13	-8.44	-8.81
M 78	62 39.88	154 32.60	561	982075.69	8.10	-10.63	-10.99
M 79	62 40.40	154 34.01	544	982076.50	6.62	-11.54	-11.89
M 80	62 41.25	154 35.08	523	982076.50	3.64	-13.82	-14.15
M 81	62 42.01	154 35.94	502	982075.37	-0.36	-17.13	-17.45
M 82	62 42.82	154 36.82	495	982072.87	-4.50	-21.04	-21.35
M 83	62 43.73	154 37.44	478	982071.12	-9.07	-25.04	-25.35
M 84	62 44.39	154 38.26	473	982067.81	-13.71	-29.51	-29.82
M 85	62 27.85	153 30.25	1167	981994.50	-1.20	-37.65	-38.34
M 86	62 27.18	153 29.78	1188	981991.37	-1.50	-38.05	-38.75
M 87	62 26.36	153 29.41	1202	981987.31	-3.30	-39.90	-40.60
M 88	62 25.43	153 29.02	1226	981980.87	-6.25	-42.42	-43.11
M 89	62 24.75	153 28.79	1246	981978.12	-6.34	-42.45	-43.14
M 90	62 24.03	153 27.92	1267	981970.81	-10.83	-45.31	-45.97
M 91	62 23.12	153 27.89	1277	981966.69	-12.84	-48.31	-48.98
M 92	62 22.24	153 28.12	1289	981965.81	-11.55	-48.47	-49.17
M 93	62 21.55	153 27.54	1309	981962.00	-12.56	-49.56	-50.27

Table 1 (con.)

Station	Latitude	Longitude	Elev. (ft)[a]	Observed	FAA	CBA(2.62)	CBA(2.67)
M 94	62 20.84	153 26.16	1325	981957.19	-15.00	-51.85	-52.55
M 95	62 20.13	153 25.30	1343	981956.12	-13.53	-50.41	-51.11
M 96	62 19.52	153 24.00	1360	981950.19	-17.02	-53.37	-54.06
M 97	62 18.70	153 23.05	1377	981948.19	-16.42	-53.89	-54.60
M 98	62 17.84	153 22.85	1395	981947.62	-14.28	-52.80	-53.53
M 99	62 16.94	153 22.44	1412	981947.81	-11.32	-51.28	-52.04
M100	62 16.06	153 22.34	1430	981940.69	-15.64	-55.52	-56.28
M101	62 46.99	154 46.16	433	982075.31	-13.14	-27.60	-27.88
M102	62 47.56	154 47.78	432	982075.50	-13.69	-28.14	-28.41
M103	62 48.31	154 48.55	424	982077.37	-13.52	-27.69	-27.96
M104	62 49.13	154 49.75	423	982079.13	-12.91	-27.05	-27.32
M105	62 50.19	154 48.73	415	982080.88	-13.10	-26.97	-27.23
M106	62 50.97	154 49.61	410	982082.50	-12.98	-26.68	-26.94
M107	62 51.74	154 50.21	407	982085.37	-11.28	-24.88	-25.14
M108	62 52.62	154 50.92	396	982088.19	-10.64	-23.88	-24.13
M109	62 53.32	154 51.92	396	982091.62	-8.09	-21.33	-21.59
M110	62 54.16	154 52.86	390	982092.12	-9.21	-22.25	-22.50
M111	62 55.02	154 53.83	388	982093.81	-8.71	-21.68	-21.93
M112	62 55.78	154 54.11	385	982095.69	-8.01	-20.88	-21.12
M113	62 56.40	154 53.14	384	982097.19	-7.38	-20.21	-20.46
M114	62 57.16	154 52.56	384	982098.19	-7.29	-20.11	-20.36
M115	62 58.07	154 52.96	384	982100.19	-6.45	-19.27	-19.51
M116	62 58.94	154 53.36	379	982102.31	-5.86	-18.51	-18.75
M117	62 59.74	154 54.23	379	982104.31	-4.79	-17.42	-17.66
M118	62 0.07	154 37.49	1350	981956.19	12.33	-32.19	-33.04
M119	62 0.96	154 37.75	1326	981959.62	12.36	-31.31	-32.14
M120	62 1.66	154 38.87	1313	981961.62	12.24	-30.90	-31.72
M121	62 2.35	154 39.97	1288	981965.50	12.94	-29.50	-30.31
M122	62 3.00	154 40.59	1279	981970.87	16.66	-25.48	-26.28
M123	62 3.74	154 41.52	1262	981974.31	17.58	-24.00	-24.79
M124	62 4.53	154 41.13	1235	981976.69	16.40	-24.26	-25.04
M125	62 5.33	154 40.55	1224	981977.87	15.59	-24.63	-25.40
M126	62 5.99	154 40.10	1204	981976.69	11.65	-27.90	-28.66
M127	62 6.82	154 39.92	1188	981976.37	8.82	-30.13	-30.88
M128	62 7.56	154 40.09	1170	981975.37	5.18	-33.13	-33.86
M129	62 8.48	154 39.75	1145	981977.37	3.69	-33.66	-34.37
M130	62 9.32	154 39.74	1133	981976.87	0.99	-35.84	-36.54
M131	62 10.05	154 40.69	1117	981974.81	-3.51	-39.93	-40.62
M132	62 10.78	154 41.56	1096	981974.62	-6.56	-42.34	-43.02
M133	62 11.52	154 42.25	1095	981978.81	-3.41	-39.16	-39.84
M134	62 12.23	154 42.99	1058	981980.37	-6.17	-40.74	-41.40
M135	62 12.92	154 43.61	1053	981982.62	-5.30	-39.69	-40.35
M136	62 13.70	154 44.26	1038	981984.69	-5.58	-39.54	-40.19
M137	62 14.40	154 45.29	1018	981991.31	-1.69	-35.18	-35.82
M138	62 15.38	154 45.70	994	981996.50	0.00	-32.79	-33.42
M139	62 16.02	154 46.99	989	981999.50	1.72	-31.00	-31.63
M140	62 16.76	154 48.08	958	982002.37	0.78	-31.00	-31.61

Table 1 (con.)

Station	Latitude	Longitude	Elev. (ft)[a]	Observed	FAA	CBA(2.62)	CBA(2.67)
M141	62 17.40	154 49.27	940	982007.19	3.09	-28.10	-28.70
M142	62 17.99	154 50.52	922	982010.12	3.55	-27.06	-27.65
M143	62 18.62	154 51.83	913	982009.50	1.38	-28.99	-29.57
M144	62 19.24	154 52.96	903	982009.12	-0.78	-30.80	-31.38
M145	62 20.10	154 53.75	885	982011.81	-0.88	-30.24	-30.80
M146	62 20.71	154 54.71	868	982014.37	-0.60	-29.48	-30.03
M147	62 21.65	154 55.04	852	982018.31	0.63	-27.75	-28.29
M148	62 22.46	154 55.28	826	982021.37	0.31	-27.20	-27.73
M149	62 23.24	154 56.18	817	982023.38	0.55	-26.64	-27.16
M150	62 24.05	154 56.94	808	982025.87	1.14	-25.77	-26.28
M151	62 24.59	154 58.30	788	982028.63	1.26	-25.01	-25.51
M152	62 25.13	154 59.76	774	982030.38	1.07	-24.73	-25.22
M153	62 25.79	155 0.69	752	982031.31	-0.94	-25.98	-26.45
M154	62 26.17	155 2.48	730	982031.62	-3.13	-27.45	-27.91
M155	62 27.03	155 3.09	717	982033.12	-3.97	-27.81	-28.26
M156	62 27.77	155 2.89	716	982035.13	-2.94	-26.79	-27.24
M157	62 28.63	155 2.77	701	982037.37	-3.17	-26.49	-26.94
M158	62 29.34	155 3.23	689	982037.37	-5.15	-28.10	-28.53
M159	62 30.15	155 3.62	673	982039.12	-5.92	-28.34	-28.77
M160	62 30.89	155 3.41	651	982040.87	-7.06	-28.75	-29.16
M161	62 31.72	155 2.80	639	982042.81	-7.39	-28.70	-29.11
M162	62 32.44	155 3.11	622	982043.81	-8.94	-29.70	-30.10
M163	62 51.21	155 39.25	307	982110.69	5.26	-4.90	-5.10
M164	62 50.63	155 37.25	305	982109.12	4.23	-5.91	-6.11
M165	62 49.72	155 37.07	306	982105.62	1.85	-8.34	-8.53
M166	62 49.12	155 34.93	313	982104.81	2.42	-8.01	-8.20
M167	62 48.49	155 33.62	320	982099.63	-1.24	-11.89	-12.10
M168	62 48.05	155 31.96	339	982097.12	-1.47	-12.77	-12.98
M169	62 48.07	155 30.17	340	982096.62	-1.86	-13.20	-13.41
M170	62 47.63	155 27.72	359	982097.88	1.70	-10.26	-10.48
M171	62 47.07	155 27.38	357	982097.88	2.20	-9.70	-9.92
M172	62 46.58	155 25.82	361	982096.19	1.53	-10.51	-10.74
M173	62 45.89	155 24.56	365	982093.50	0.05	-12.12	-12.35
M174	62 44.72	155 22.64	390	982087.12	-2.53	-15.54	-15.79
M175	62 43.91	155 20.84	413	982089.87	3.46	-10.31	-10.57
M176	62 42.96	155 20.86	408	982087.00	1.25	-12.35	-12.61
M177	62 42.17	155 20.26	408	982087.88	3.04	-10.51	-10.77
M178	62 40.81	155 19.02	469	982073.31	-4.08	-19.70	-20.00
M179	62 37.44	155 15.56	521	982063.00	-5.33	-22.67	-23.00
M180	62 9.17	154 19.44	2496	981899.69	52.23	-16.19	-17.50
M181	62 9.90	154 19.31	2438	981903.81	49.98	-20.62	-21.96
M182	62 10.45	154 18.91	2388	981906.81	47.59	-23.22	-24.58
M183	62 11.02	154 18.66	2346	981910.19	46.29	-23.63	-24.97
M184	62 11.83	154 18.85	2289	981913.37	43.18	-24.44	-25.73
M185	62 12.49	154 19.34	2227	981918.31	41.32	-24.81	-26.07
M186	62 13.11	154 19.76	2163	981923.31	39.55	-25.30	-26.54
M187	62 13.47	154 20.86	2110	981926.69	37.57	-24.66	-25.85

Table 1 (con.)

Station	Latitude	Longitude	Elev. (ft)[a]	Observed	FAA	CBA(2.62)	CBA(2.67)
M188	62 13.69	154 22.04	2055	981930.13	35.52	-25.37	-26.53
M189	62 14.01	154 23.44	1977	981935.19	32.86	-25.05	-26.16
M190	62 14.03	154 24.70	1934	981938.19	31.81	-25.37	-26.46
M191	62 14.35	154 26.00	1864	981945.50	32.13	-23.80	-24.86
M192	62 14.82	154 27.14	1802	981952.12	32.37	-23.84	-24.91
M193	62 15.37	154 27.94	1742	981958.37	32.32	-23.08	-24.14
M194	62 16.17	154 29.04	1693	981961.50	29.75	-24.93	-25.97
M195	62 16.85	154 30.04	1619	981962.31	22.69	-29.84	-30.84
M196	62 17.69	154 30.47	1563	981966.50	20.61	-29.31	-30.26
M197	62 18.44	154 31.53	1515	981970.37	19.08	-29.54	-30.47
M198	62 19.23	154 32.62	1433	981976.50	16.50	-30.02	-30.91
M199	62 19.91	154 33.85	1387	981982.37	17.21	-28.66	-29.54
M200	62 20.67	154 34.59	1317	981988.00	15.31	-28.29	-29.12
M201	62 21.60	154 34.04	1241	981994.69	13.67	-27.42	-28.21
M202	62 22.46	154 33.43	1210	981998.31	13.35	-26.78	-27.54
M203	62 23.35	154 33.03	1155	982003.81	12.50	-25.79	-26.52
M204	62 24.25	154 32.61	1111	982008.19	11.69	-25.14	-25.84
M205	62 25.04	154 33.02	1048	982014.87	11.48	-23.33	-24.00
M206	62 25.99	154 32.47	1000	982019.37	10.26	-23.00	-23.63
M207	62 26.81	154 32.72	965	982024.12	10.66	-21.45	-22.06
M208	62 27.63	154 32.36	924	982028.50	10.19	-20.58	-21.17
M209	62 28.47	154 32.41	886	982033.50	10.57	-18.93	-19.49
M210	62 29.24	154 31.88	846	982039.12	11.46	-16.71	-17.24
M211	62 30.22	154 32.09	811	982045.31	13.18	-13.85	-14.37
M212	62 31.06	154 31.68	782	982048.37	12.56	-13.53	-14.03
M213	62 31.99	154 31.93	748	982050.81	10.58	-14.36	-14.84
M214	62 32.76	154 32.81	714	982054.50	10.12	-13.69	-14.15
M215	62 33.67	154 33.46	674	982057.31	8.00	-14.47	-14.90
M216	62 33.45	154 38.42	689	982052.81	5.13	-17.82	-18.25
M217	62 30.96	154 40.68	719	982047.50	5.79	-17.19	-17.63
M218	62 30.57	154 43.03	2490	981931.31	56.63	-15.69	-17.07
M219	62 30.18	154 45.46	1291	982017.00	30.08	-12.14	-12.95
M220	62 28.64	154 48.96	1451	982003.62	33.60	-12.86	-13.74
M221	62 28.24	154 52.12	1788	981976.00	38.18	-17.19	-18.24
M222	62 26.86	154 55.43	948	982020.50	5.40	-26.13	-26.73
M223	62 23.43	155 8.32	1053	981999.81	-1.14	-36.11	-36.78
M224	62 21.45	155 15.44	800	982021.50	-0.79	-27.48	-27.99
M225	62 20.01	155 21.29	641	982029.31	-6.24	-27.37	-27.77
M226	62 18.04	155 27.72	1860	981944.50	26.14	-32.79	-33.91
M227	61 59.49	154 36.58	1378	981952.87	12.37	-33.02	-33.88
M228	61 58.64	154 36.65	1419	981947.62	11.96	-34.82	-35.71
M229	61 57.81	154 36.49	1442	981943.69	11.32	-36.15	-37.06
M230	61 57.09	154 35.51	1463	981940.31	10.74	-37.42	-38.34
M231	61 56.39	154 34.52	1477	981938.88	11.65	-37.01	-37.94
M232	61 55.59	154 33.77	1502	981935.38	11.44	-38.04	-38.98
M233	61 55.25	154 32.12	1528	981928.87	7.87	-42.55	-43.51
M234	61 55.00	154 30.34	1564	981924.00	6.63	-44.89	-45.87

Table 1 (con.)

Station	Latitude	Longitude	Elev. (ft)[a]	Observed	FAA	CBA(2.62)	CBA(2.67)
M235	61 54.78	154 28.64	1608	981915.00	2.07	-50.72	-51.73
M236	61 54.33	154 27.01	1629	981912.19	1.78	-51.41	-52.43
M237	61 53.92	154 25.40	1653	981915.19	7.53	-45.99	-47.02
M238	61 53.46	154 23.83	1695	981912.37	9.34	-45.07	-46.11
M239	61 52.89	154 22.42	1729	981908.81	9.61	-45.56	-46.62
M240	61 52.38	154 20.93	1770	981902.62	7.92	-47.95	-49.02
M241	61 51.83	154 19.47	1810	981896.81	6.54	-49.10	-50.16
M242	61 51.36	154 17.99	1852	981890.31	4.63	-51.37	-52.44
M243	61 50.92	154 16.37	1887	981885.81	3.96	-53.02	-54.10
M244	61 50.30	154 15.01	1930	981878.81	1.80	-52.76	-53.80
M245	61 49.86	154 14.43	1950	981874.87	0.29	-50.15	-51.11
M246	61 48.81	154 13.05	2044	981858.62	-5.88	-51.93	-52.81
M247	61 48.12	154 12.04	2135	981844.37	-10.65	-57.96	-58.87
M248	61 42.25	154 6.95	4403	981698.12	63.77	-36.63	-38.55
M249	61 36.07	154 2.95	1990	981837.19	-16.24	-63.91	-64.82
M250	62 6.36	154 9.87	2711	981878.87	55.13	-31.73	-33.39
M251	62 12.14	154 9.07	2291	981912.12	41.68	-30.66	-32.05
M252	62 16.49	154 3.23	1964	981932.69	26.04	-33.74	-34.88
M253	62 30.97	153 43.93	1668	981982.37	29.91	-24.90	-25.94
M254	62 59.54	153 0.11	1227	982042.62	13.52	-27.26	-28.04
M255	63 1.10	153 9.22	1078	982057.31	12.25	-23.65	-24.33
M256	62 53.31	153 13.00	1363	982017.81	9.11	-36.39	-37.26
M257	62 50.80	153 27.63	988	982043.81	2.94	-29.99	-30.62
M258	62 49.18	153 34.69	944	982049.12	6.07	-25.42	-26.02
M259	62 46.67	153 42.85	830	982072.87	22.29	-5.38	-5.91
M260	62 44.99	153 53.71	753	982066.62	10.79	-14.34	-14.81
M261	62 44.28	153 50.69	769	982079.13	25.58	-0.03	-0.52
M262	62 41.15	154 4.75	910	982044.87	8.56	-21.68	-22.25
M263	62 38.64	154 14.05	828	982063.12	22.12	-5.52	-6.05
M264	62 28.01	154 1.46	1529	981990.62	28.71	-21.31	-22.27
M300	62 23.49	153 7.82	2900	981863.19	35.89	-53.64	-55.36
M301	62 23.04	153 10.21	2740	981877.37	35.57	-50.50	-52.14
M302	62 23.15	153 12.61	2585	981887.00	30.46	-48.93	-50.44
M303	62 24.31	153 14.53	2405	981892.31	17.42	-56.08	-57.48
M304	62 25.25	153 16.37	2298	981905.31	19.21	-46.59	-47.85
M305	62 26.42	153 17.20	2140	981915.87	13.46	-46.63	-47.77
M306	62 27.66	153 19.55	2011	981933.12	16.93	-40.78	-41.88
M307	62 28.29	153 22.37	1833	981949.87	16.25	-38.20	-39.24
M308	62 29.55	153 24.74	1651	981964.69	12.37	-38.33	-39.30
M309	62 31.05	153 24.84	1502	981982.12	13.95	-32.54	-33.43
M310	62 32.87	153 25.75	1288	982001.12	10.50	-30.87	-31.66
M311	62 34.18	153 27.98	1138	982013.87	7.66	-29.59	-30.30
M312	62 36.34	153 29.62	1152	982021.63	13.95	-23.94	-24.67
M313	62 36.54	153 24.04	1331	982009.81	18.68	-23.91	-24.72
M314	62 36.64	153 19.08	1489	982001.00	24.68	-23.44	-24.36
M315	62 35.44	153 15.83	1626	981990.87	28.92	-23.23	-24.23
M316	62 33.57	153 14.32	1737	981972.38	23.25	-29.16	-30.16

Table 1 (con.)

Station	Latitude	Longitude	Elev. (ft)[a]	Observed	FAA	CBA(2.62)	CBA(2.67)
M317	62 31.74	153 9.69	1953	981943.50	16.86	-37.33	-38.36
M318	62 31.42	153 4.77	2145	981930.69	22.51	-38.58	-39.74
M319	62 32.57	153 0.49	2394	981919.31	33.11	-37.66	-39.01
M320	62 32.96	152 57.49	2530	981908.87	35.12	-38.76	-40.17
M321	62 33.85	152 53.98	2708	981902.37	44.14	-34.95	-36.46
M324	62 39.67	153 8.11	2121	981962.87	42.24	-25.23	-26.52
M325	62 39.82	153 5.93	2264	981956.62	49.21	-23.49	-24.87
M326	62 40.05	153 3.80	2343	981953.12	52.84	-23.49	-24.95
M327	62 38.35	153 0.42	2858	981929.69	80.01	-11.65	-13.40
M328	62 37.52	152 58.90	3121	981906.81	82.93	-15.91	-17.80
M329	62 36.67	152 59.23	3426	981875.31	81.07	-22.60	-24.58
M330	62 38.59	153 9.71	3558	981873.19	89.07	-22.80	-24.94
M331	62 38.71	153 12.85	2683	981927.12	60.59	-25.66	-27.31
M332	62 37.11	153 13.58	2716	981933.63	72.17	-15.33	-17.00
M333	62 35.16	153 20.57	2116	981960.12	44.55	-24.23	-25.55
M334	62 40.45	153 10.01	2028	981970.81	40.49	-25.56	-26.82
M335	62 41.14	153 11.90	1878	981975.31	30.04	-31.92	-33.11
M336	62 41.59	153 13.54	1791	981981.50	27.48	-31.83	-32.96
M337	62 41.73	153 15.50	1734	981984.87	25.35	-32.19	-33.29
M338	62 41.79	153 18.06	1589	981996.38	23.16	-29.61	-30.62
M339	62 42.01	153 20.71	1454	982006.69	20.49	-27.84	-28.77
M340	62 42.58	153 23.15	1359	982010.12	14.20	-31.03	-31.90
M341	62 43.29	153 24.56	1274	982011.50	6.73	-35.66	-36.47
M342	62 44.02	153 25.55	1218	982012.12	1.16	-39.37	-40.14
M343	62 45.09	153 26.36	1148	982014.31	-4.47	-42.75	-43.48
M344	62 46.23	153 27.98	1125	982015.87	-6.45	-43.98	-44.69
M345	62 47.65	153 30.41	969	981970.87	-67.88	-100.21	-100.83
M346	62 48.48	153 32.69	921	982045.31	0.99	-29.74	-30.33
M347	62 49.73	153 36.54	833	982060.81	6.70	-21.08	-21.61
M348	62 50.39	153 38.48	785	982066.00	6.55	-19.65	-20.16
M349	62 43.77	152 56.60	2269	981952.87	41.16	-32.50	-33.91
M350	62 44.78	152 58.88	2122	981951.00	24.21	-45.49	-46.82
M351	62 45.51	153 0.20	2018	981952.31	14.79	-52.02	-53.29
M352	62 47.08	153 0.83	1932	981968.37	20.90	-43.26	-44.48
M353	62 48.36	153 2.33	1786	981977.81	14.92	-44.53	-45.67
M354	62 49.38	153 4.28	1634	981991.19	12.81	-41.61	-42.65
M355	62 50.35	153 6.45	1524	982002.37	12.48	-38.29	-39.26
M356	62 51.55	153 8.59	1400	982013.19	10.12	-36.55	-37.44
M357	62 52.43	153 10.76	1286	982021.81	6.94	-35.93	-36.75
M358	62 53.39	153 13.09	1187	982030.87	5.53	-34.08	-34.84
M359	62 54.08	153 14.99	1103	982039.37	5.30	-31.51	-32.21
M360	62 54.92	153 17.25	1032	982045.81	4.02	-30.43	-31.08
M361	62 55.51	153 19.81	979	982051.12	3.64	-29.04	-29.66
M362	62 55.15	153 25.54	879	982058.62	2.17	-27.16	-27.72
M363	62 55.17	153 29.43	806	982066.31	2.92	-24.00	-24.51
M364	62 55.96	153 33.85	762	982070.81	2.36	-23.10	-23.59
M365	63 23.24	154 21.55	1163	982089.19	25.22	-9.91	-10.58

Table 1 (con.)

Station	Latitude	Longitude	Elev. (ft)[a]	Observed	FAA	CBA(2.62)	CBA(2.67)
M366	62 51.12	152 25.73	1842	981982.81	21.79	-37.85	-38.98
M367	62 51.02	152 27.29	1829	981984.63	22.50	-36.94	-38.07
M368	62 51.19	152 28.54	1805	981988.31	23.81	-35.16	-36.29
M369	62 51.57	152 31.15	1763	981994.12	25.17	-32.68	-33.79
M370	62 51.30	152 29.57	1785	981990.87	24.41	-34.03	-35.15
M371	62 51.61	152 32.65	1736	981994.12	22.56	-34.50	-35.59
M372	62 52.07	152 33.85	1723	981997.87	24.65	-32.06	-33.14
M373	62 52.59	152 34.74	1710	981998.13	22.97	-33.40	-34.48
M374	62 53.04	152 35.80	1695	981996.62	19.48	-36.24	-37.31
M375	62 52.84	152 37.14	1672	981996.31	17.27	-37.89	-38.95
M376	62 52.91	152 38.54	1661	981997.12	16.89	-37.91	-38.96
M377	62 53.05	152 39.94	1644	981996.50	14.53	-39.71	-40.75
M378	62 53.36	152 41.57	1625	981996.62	12.48	-40.95	-41.97
M379	62 53.44	152 42.89	1609	981998.13	12.34	-40.87	-41.89
M380	62 53.49	152 44.38	1577	982000.87	12.10	-39.96	-40.95
M381	62 53.70	152 46.07	1553	981999.69	8.37	-42.74	-43.71
M382	62 53.95	152 47.86	1520	982002.19	7.47	-42.76	-43.72
M383	62 54.21	152 49.40	1490	982003.81	5.89	-43.47	-44.41
M384	62 54.53	152 50.83	1466	982008.19	7.67	-40.89	-41.81
M385	62 55.06	152 52.00	1439	982013.38	9.72	-37.92	-38.83
M386	62 55.52	152 53.62	1411	982015.81	8.89	-38.07	-38.97
M387	62 56.14	152 54.85	1371	982026.19	14.81	-30.82	-31.70
M388	62 56.71	152 56.22	1348	982023.38	9.15	-35.82	-36.68
M389	62 57.38	152 56.98	1317	982027.31	9.28	-34.65	-35.49
M390	62 57.89	152 57.91	1293	982030.19	9.30	-33.85	-34.68
M391	62 58.37	152 58.72	1270	982033.87	10.32	-32.07	-32.88
M392	62 58.98	152 59.32	1252	982038.00	11.89	-29.85	-30.65
M393	62 59.58	152 59.90	1225	982042.81	13.39	-27.35	-28.13
M394	63 0.12	153 0.95	1209	982043.81	12.22	-28.00	-28.77
M395	63 0.46	153 2.14	1180	982045.37	10.80	-28.49	-29.24
M396	63 0.78	153 2.91	1162	982047.31	10.55	-28.15	-28.89
M397	63 1.02	153 4.06	1139	982049.87	10.68	-27.25	-27.97
M398	63 1.29	153 12.97	1017	982060.62	9.57	-24.17	-24.81
M399	63 1.02	153 11.82	1032	982058.12	8.86	-25.54	-26.19
M400	63 0.95	153 10.22	1053	982056.81	9.61	-25.40	-26.07
M401	63 1.15	153 8.55	1086	982056.62	12.25	-23.85	-24.54
M402	63 0.90	153 6.58	1102	982052.69	10.14	-26.58	-27.28
M403	63 1.10	153 5.15	1117	982054.19	12.82	-24.37	-25.08
M404	63 1.15	153 14.26	989	982060.62	7.12	-25.87	-26.50
M405	63 1.81	153 15.40	980	982062.81	7.67	-25.02	-25.65
M406	63 2.46	153 16.14	953	982065.12	6.67	-25.13	-25.74
M407	63 2.67	153 17.99	924	982067.12	5.64	-25.21	-25.79
M408	63 3.09	153 19.30	908	982069.69	6.20	-24.12	-24.70
M409	63 3.28	153 20.99	890	982071.37	5.99	-23.74	-24.31
M410	63 3.94	153 21.86	870	982072.63	4.47	-24.59	-25.14
M411	63 4.10	153 23.35	858	982075.31	5.90	-22.75	-23.30
M412	63 4.69	153 24.60	834	982076.81	4.45	-23.41	-23.94

Table 1 (con.)

Station	Latitude	Longitude	Elev. (ft)[a]	Observed	FAA	CBA(2.62)	CBA(2.67)
M413	63 4.99	153 26.72	806	982079.13	3.72	-23.21	-23.73
M414	63 5.17	153 27.83	787	982082.87	5.53	-20.76	-21.27
M415	62 58.12	151 58.26	2598	981930.56	32.15	-50.63	-52.20
M416	62 58.52	151 59.86	2533	981934.50	29.47	-52.04	-53.59
M417	62 58.92	152 1.74	2450	981939.69	26.35	-53.34	-54.86
M418	62 59.40	152 3.42	2415	981943.63	26.41	-52.61	-54.12
M419	62 59.32	152 5.18	2348	981950.63	27.24	-49.03	-50.48
M420	62 59.14	152 6.43	2306	981954.69	27.57	-47.41	-48.84
M421	62 59.24	152 8.45	2253	981959.62	27.34	-46.58	-47.99
M422	62 59.16	152 10.19	2202	981964.37	27.41	-45.00	-46.38
M423	62 59.32	152 11.84	2159	981969.38	28.21	-43.09	-44.45
M424	62 59.16	152 13.61	2111	981972.87	27.41	-42.40	-43.73
M425	62 59.22	152 15.29	2061	981976.87	26.62	-41.54	-42.84
M426	62 59.34	152 17.14	2011	981981.81	26.61	-40.14	-41.42
M427	63 0.02	152 17.99	1955	981987.37	26.12	-38.85	-40.09
M428	63 0.77	152 18.58	1912	981991.81	25.63	-37.95	-39.17
M429	63 1.58	152 18.73	1858	981996.87	24.64	-37.19	-38.37
M430	63 2.26	152 19.13	1806	982002.62	24.62	-35.51	-36.66
M431	63 3.14	152 19.50	1760	982005.69	22.28	-36.34	-37.46
M432	63 3.94	152 20.08	1724	982007.87	20.19	-37.27	-38.36
M433	63 4.76	152 20.16	1666	982013.12	18.90	-36.64	-37.70
M434	63 5.59	152 20.60	1638	982017.87	20.02	-34.67	-35.71
M435	63 6.30	152 21.01	1608	982022.19	20.68	-33.03	-34.05
M436	63 6.75	152 21.98	1567	982028.37	22.47	-29.87	-30.86
M437	63 7.54	152 22.94	1539	982031.62	22.11	-29.29	-30.28
M438	63 7.95	152 24.21	1508	982036.19	23.26	-27.11	-28.07
M439	63 8.57	152 25.39	1483	982036.37	20.36	-29.17	-30.12
M440	63 9.00	152 27.11	1447	982039.12	19.14	-29.19	-30.11
M441	63 9.40	152 28.93	1419	982042.69	19.59	-27.81	-28.72
M442	63 10.19	152 29.81	1382	982047.81	20.28	-25.88	-26.76
M443	63 10.83	152 31.32	1343	982050.62	18.66	-26.20	-27.06
M444	63 11.62	152 32.17	1310	982051.62	15.53	-28.23	-29.06
M445	63 12.49	152 33.17	1282	982051.81	12.00	-30.82	-31.64
M446	63 13.27	152 33.68	1246	982052.50	8.41	-33.21	-34.00
M447	63 14.02	152 34.75	1214	982057.31	9.25	-31.31	-32.08
M448	63 14.78	152 36.07	1182	982061.50	9.56	-29.92	-30.68
M449	63 15.35	152 37.76	1150	982064.37	8.75	-29.67	-30.40
M450	63 15.92	152 39.20	1114	982067.38	7.70	-29.51	-30.22
M451	63 16.77	152 39.62	1090	982071.81	8.71	-27.70	-28.40
M452	63 17.42	152 40.47	1065	982076.37	10.23	-25.35	-26.03
M453	63 18.00	152 41.49	1039	982076.69	7.36	-27.36	-28.02
M454	63 18.62	152 42.76	1008	982079.62	6.67	-27.00	-27.65
M455	63 19.09	152 44.25	979	982083.37	7.13	-25.58	-26.20
M456	63 19.51	152 45.58	960	982083.00	4.42	-27.66	-28.27
M457	63 19.92	152 47.44	928	982083.50	1.44	-29.56	-30.15
M458	63 19.91	152 49.19	904	982084.81	0.49	-29.68	-30.26
M459	63 20.15	152 50.69	884	982085.19	-1.34	-30.86	-31.42

Table 1 (con.)

Station	Latitude	Longitude	Elev.[a] (ft)	Observed	FAA	CBA(2.62)	CBA(2.67)
M460	63 20.49	152 52.77	864	982086.62	-2.23	-31.09	-31.65
M461	63 20.70	152 54.37	839	982088.12	-3.29	-31.32	-31.85
M462	63 20.91	152 56.27	822	982089.00	-4.25	-31.71	-32.24
M463	63 21.30	152 57.86	806	982092.87	-2.32	-29.24	-29.76
M464	63 21.44	152 59.56	789	982097.12	0.06	-26.29	-26.79
M465	63 21.50	153 1.57	775	982098.81	0.36	-25.54	-26.03
M466	63 21.82	153 3.38	760	982097.81	-2.34	-27.74	-28.22
M467	63 5.96	153 28.73	752	982084.81	3.15	-21.98	-22.46
M468	63 6.52	153 30.14	727	982086.50	1.79	-22.50	-22.96
M469	63 7.16	153 31.30	710	982092.50	5.43	-18.30	-18.75
M470	63 7.74	153 32.74	691	982095.62	6.03	-17.03	-17.47
M471	63 8.57	153 32.65	672	982097.81	5.42	-17.00	-17.42
M472	63 9.25	153 32.49	660	982100.87	6.61	-15.38	-15.80
M473	63 10.15	153 32.51	642	982101.81	4.68	-16.75	-17.15
M474	63 10.96	153 32.30	633	982104.37	5.46	-15.65	-16.05
M475	63 11.20	153 33.94	624	982104.81	4.73	-16.11	-16.50
M476	63 11.30	153 35.84	613	982102.87	1.64	-18.83	-19.22
M477	63 12.01	153 36.88	603	982104.12	1.12	-19.02	-19.40
M478	63 12.35	153 38.28	589	982108.37	3.63	-16.03	-16.41
M479	63 13.08	153 39.20	583	982113.19	7.00	-12.47	-12.84
M480	63 13.78	153 40.35	568	982106.12	-2.37	-21.34	-21.70
M481	63 14.66	153 41.81	571	982107.31	-1.98	-21.04	-21.40
M482	63 15.53	153 41.36	563	982110.37	-0.68	-19.47	-19.83
M483	63 16.27	153 41.39	571	982111.31	0.07	-18.98	-19.35
M484	63 16.86	153 39.97	571	982109.00	-2.93	-22.00	-22.36
M485	63 17.37	153 38.42	568	982108.37	-4.43	-23.41	-23.77
M486	63 17.63	153 36.37	572	982106.63	-6.16	-25.27	-25.64
M487	63 18.07	153 35.14	574	982106.81	-6.32	-25.50	-25.86
M488	63 18.71	153 33.84	584	982106.81	-6.12	-25.63	-26.01
M489	63 19.23	153 32.62	588	982107.37	-5.80	-25.45	-25.82
M490	63 20.27	153 31.85	592	982109.37	-4.75	-24.53	-24.91
M491	63 20.92	153 30.20	599	982110.50	-3.75	-23.77	-24.15
M492	63 21.19	153 26.20	617	982112.62	-0.32	-20.94	-21.34
M493	63 22.30	153 25.24	619	982112.00	-2.05	-22.73	-23.13
M494	63 23.37	153 22.37	629	982113.81	-0.61	-21.62	-22.02
M495	63 4.27	153 4.21	2183	981990.62	45.63	-24.39	-25.73
M496	63 7.53	152 59.83	1908	982011.31	36.52	-23.86	-25.01
M497	63 8.63	152 51.73	2024	982005.87	40.69	-24.52	-25.76
M498	63 24.35	153 13.17	655	982109.19	-3.95	-25.81	-26.23
M499	63 24.74	153 11.64	662	982107.50	-5.47	-27.55	-27.97
M500	63 24.55	153 10.05	671	982104.62	-7.21	-29.61	-30.04
M501	63 24.51	153 7.97	678	982104.69	-6.48	-29.11	-29.55
M502	63 23.88	153 6.87	696	982103.62	-5.15	-28.39	-28.84
M503	63 23.06	153 6.17	709	982098.62	-7.87	-31.55	-32.00
M504	63 22.47	153 4.73	725	982097.50	-6.76	-30.98	-31.45
M506	62 42.31	153 7.79	2629	981918.31	42.20	-42.38	-43.99
M507	62 44.56	153 2.31	2650	981917.12	40.18	-44.15	-45.76

Table 1 (con.)

Station	Latitude	Longitude	Elev. (ft)[a]	Observed	FAA	CBA(2.62)	CBA(2.67)
M508	62 46.71	152 54.70	1955	981967.31	22.45	-41.89	-43.12
M509	62 49.54	152 55.97	1741	981980.62	12.10	-45.78	-46.88
M510	62 52.69	152 56.78	1540	982000.12	8.81	-42.45	-43.43
M511	62 55.28	152 59.66	1366	982017.37	6.56	-39.03	-39.90
M512	62 57.04	153 3.46	1227	982032.87	6.87	-33.67	-34.45
M513	62 58.70	153 9.77	1115	982042.81	4.14	-33.08	-33.79
M514	63 1.34	152 52.34	1764	982012.37	31.66	-26.56	-27.67
M515	63 3.28	152 49.15	1906	982007.31	37.41	-24.51	-25.70
M516	63 5.98	152 32.21	1891	982012.81	38.29	-23.45	-24.62
M517	62 56.23	152 32.17	2470	981949.19	41.04	-40.25	-41.80
M518	62 55.31	152 23.69	2465	981941.62	34.07	-47.58	-49.14
M519	63 1.48	152 33.97	1915	982001.31	34.46	-29.25	-30.47
M520	63 11.50	153 21.35	1120	982070.62	16.77	-19.13	-19.81
M521	63 15.41	153 13.27	1414	982059.69	28.80	-16.34	-17.20
M522	63 15.46	153 32.60	600	982107.81	-0.57	-20.62	-20.16
M523	63 19.82	153 21.56	630	982109.81	-0.17	-21.22	-21.62
M524	63 27.90	153 9.92	1450	982058.62	15.92	-30.02	-30.90
M525	63 30.41	153 9.10	2478	981987.12	38.16	-36.00	-37.42
M526	63 32.47	153 7.01	2526	981981.87	34.96	-40.13	-41.56
M527	63 33.99	153 5.33	2883	981964.13	48.89	-32.96	-34.52
M528	63 37.87	153 4.55	1853	982049.37	32.64	-26.41	-27.54
M529	63 39.71	153 2.59	1587	982067.81	23.78	-27.79	-28.77
M530	63 42.22	153 0.62	1924	982049.87	34.53	-26.62	-27.79
M531	63 30.27	152 51.66	808	982092.19	-13.68	-40.67	-41.18
M532	63 23.99	152 34.17	1042	982089.63	13.34	-21.47	-22.13
M533	63 12.53	152 44.45	1229	982059.81	15.05	-25.98	-26.76
M534	63 14.70	152 55.50	917	982080.81	3.95	-26.65	-27.23
M535	63 43.04	153 36.02	2271	982039.81	56.08	-14.69	-16.04
M536	63 43.03	153 45.85	2907	981996.12	72.32	-10.41	-11.99
M537	63 38.36	153 52.91	2685	982005.69	66.58	-9.91	-11.37
M538	63 35.95	153 57.37	2496	982020.81	66.75	-11.66	-13.16
M539	63 26.66	154 7.87	2670	981993.50	67.15	-12.89	-14.42
M540	63 32.53	154 3.85	2510	982014.81	66.31	-8.96	-10.40
M541	63 20.03	154 26.17	2265	982013.87	57.47	-11.83	-13.15
M542	63 16.42	154 33.08	2767	981968.81	63.98	-11.22	-12.66
M543	63 12.76	154 41.18	1932	982019.69	40.77	-13.81	-14.85
M544	63 9.31	154 51.79	1481	982051.62	34.39	-10.38	-11.23
M545	63 3.80	155 7.03	1856	982017.50	42.33	-10.16	-11.16
M546	63 0.87	153 27.15	817	982071.87	2.61	-24.37	-24.88
M547	63 4.07	153 38.11	648	982094.12	5.02	-16.63	-17.04
M548	63 0.50	153 46.71	601	982087.12	-2.05	-22.14	-22.52
M549	62 27.84	153 44.35	3216	981866.31	63.24	-35.81	-37.70
M550	62 25.77	153 53.26	4702	981769.87	109.27	-25.07	-27.64
M551	62 23.07	153 54.65	4010	981821.50	99.14	-26.00	-28.39
M552	62 24.92	153 59.63	4657	981773.19	109.36	-21.63	-24.13
M553	62 20.87	154 11.24	2348	981927.00	51.06	-19.13	-20.47
M554	62 23.03	154 13.00	2047	981949.50	42.55	-23.11	-24.36

Table 1 (con.)

Station	Latitude	Longitude	Elev. (ft)[a]	Observed	FAA	CBA(2.62)	CBA(2.67)
M555	62 26.07	154 14.15	1662	981962.31	15.31	-39.18	-40.22
M556	62 31.83	153 57.21	1333	982007.12	22.05	-22.17	-23.02
M557	62 33.46	154 2.22	1126	982025.62	19.11	-18.36	-19.08
M558	62 35.67	154 5.60	978	982041.87	18.68	-13.92	-14.54
M559	62 37.87	154 6.98	877	982050.38	15.04	-14.21	-14.76
M560	62 40.19	154 7.61	773	982053.19	5.16	-20.65	-21.14
M561	62 42.18	154 10.07	686	982051.31	-7.42	-30.33	-30.77
M562	62 43.68	154 13.01	614	982054.37	-12.89	-33.40	-33.79
M563	62 44.81	154 16.73	555	982066.87	-7.36	-25.90	-26.26
M564	62 46.38	154 20.11	500	982081.81	0.49	-16.21	-16.53
M565	62 41.25	153 33.83	1613	981994.87	24.55	-27.89	-28.89
M566	62 44.29	153 42.01	979	982051.37	17.74	-14.94	-15.57
M567	62 48.63	153 44.22	818	982072.81	18.61	-8.68	-9.20
M568	62 51.33	153 47.14	671	982081.31	9.97	-12.45	-12.88
M569	62 55.16	153 48.57	620	982082.81	1.95	-18.77	-19.16
M570	62 58.57	153 52.70	566	982087.12	-2.97	-21.89	-22.25
M571	62 59.10	154 2.99	507	982096.19	-0.11	-17.05	-17.37
M572	62 57.48	154 22.70	442	982096.87	-3.51	-18.28	-18.56
M573	62 49.56	154 24.16	473	982092.37	4.61	-11.19	-11.49