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PRINCIPAL FACTS FOR GRAVITY STATIONS IN THE RAT AND DELAROF ISLANDS AND TANAGA ISLAND, ALASKA

(Amchitka-43)

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PRINCIPAL FACTS FOR GRAVITY STATIONS IN THE RAT AND DELAROF ISLANDS AND TANAGA ISLAND, ALASKA

By

Don L. Healey

ABSTRACT

Gravity observations were made both east and west of the international dateline in the Aleutian Islands during 1970. A total of 280 gravity observations were made in the Rat Islands to the west and the Delarof Islands and Tanaga Island to the east. The principal facts and explanatory information for these data are included herein. These data have not been adjusted to the 1971 International Gravity Standardization Network datum.

Gravity observations were established on either side of the international dateline in the Aleutian Islands during 1970. The stations were located west of long 117°30' W. in the Delarof Islands and Tanaga Island, and east of long 177°00' E. in the Rat Islands. Miller and Bath (1969) and Bath, Miller, and Quinlivan (1971) reported on a gravity survey in the Rat Islands, primarily centered on Amchitka Island. The data herein supplements the work of Miller and Bath on Rat, Little Sitkin, and Khvostof Islands. However, supplemental observations were not made on Amchitka Island.

The principal gravity reference for this survey was base station AMCT (Barnes, 1968) on Amchitka Island. This base is located on the floor inside the waiting room of the new air terminal, in a corner, at the base of the first truss west of the main entrance. The value for AMCT is 981,362.70 mgals.

The gravity survey was conducted contemporaneously with a geologic study of these islands. Logistical support was provided by ship and helicopter. The ship provided both quarters and transportation to each island, while the helicopter ferried the field party to and from each island.

LaCoste and Romberg gravity meter G-177 was used to obtain the gravity observations. Drift control on this meter was maintained by repeated observations at base station AMCT. At each island, except Rat, an arbitrary base was established. Repeated observations were made at these respective bases throughout the entire stay at each island. The resultant composite drift curve is shown on figure 1.

Between August 12 and September 28, 1970, readings on base AMCT indicated a meter drift of about 3.35 mgals. However, most of this drift is attributable to the three jumps (nos. 1-3) shown on the drift curve. Jump 1 occurred August 28 and 29 at Little Sitkin and had a magnitude of about 0.45 mgal. Jump 2 occurred at Kiska on September 8 and had a magnitude of about 0.30 mgal. The largest jump (jump 3) occurred at Tanaga on September 16 and had an apparent magnitude of 0.55 mgal. The cause of these jumps is not known. The combination

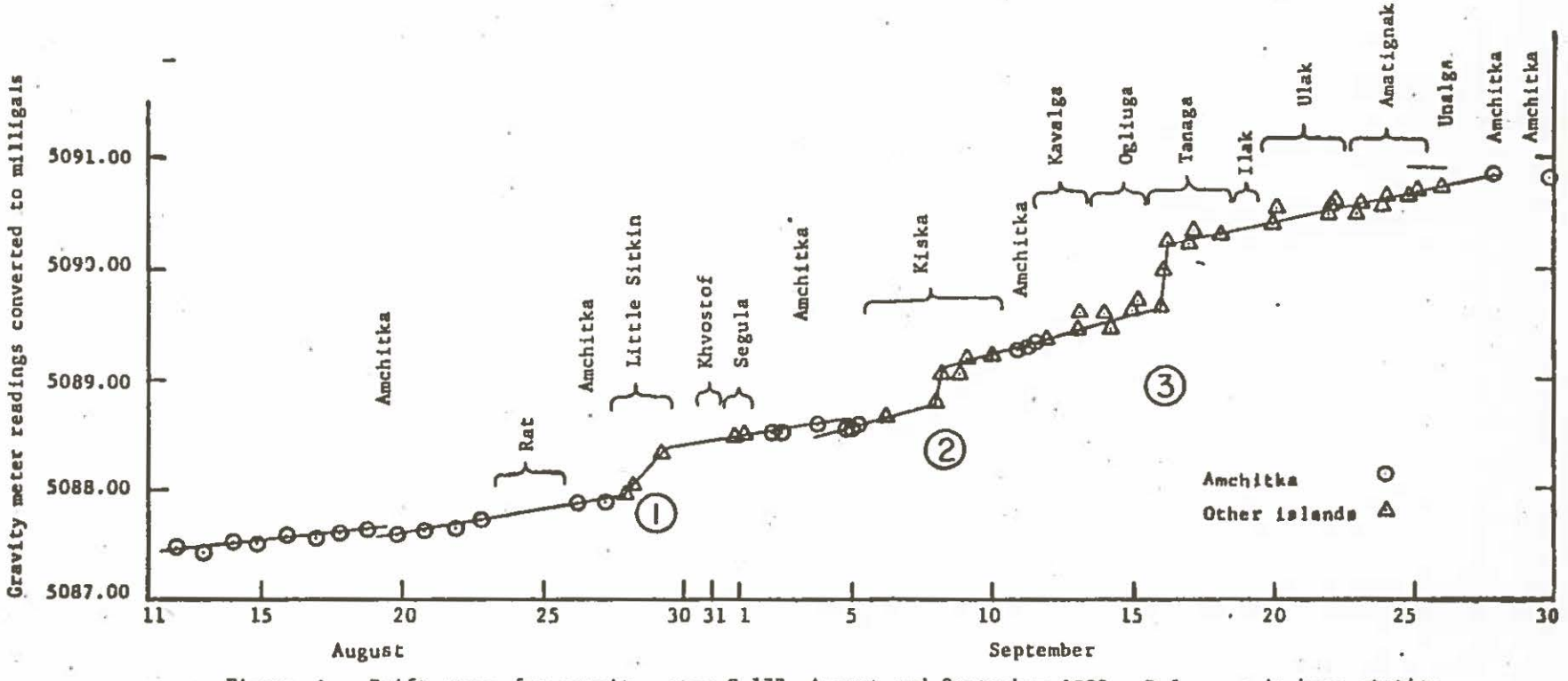

Figure 1.--Drift curve for gravity meter G-177, August and September 1970. Reference is base station AMCT on Amchitka Island. Slope of curve for other islands was constructed from repeated readings at some arbitrary point on each island. Circled numbers (1-3) indicate jumps in the drift rate of the gravity meter.

of ship and helicopter vibrations is suspected; however, the gravity meter may have been unknowingly jarred. The instrument drift correction applied to the gravity data is believed to be accurate to within ±0.5 mgal.

The principal facts for the gravity stations in the Rat and Delarof Islands and Tanaga Island are listed in table 1. The abbreviations for the table headings from the computer printout are as follows:

Column heading	Explanation
STATION	Gravity station number. Prefix taken from island name: TAN=Tanaga, AMA=Amatignak, UNA=Unalga, KAV=Kavalga, ILA=Ilak, OGL=Ogliuga, ULA=Ulak, RAT=Rat, LSI=Little Sitkin, KOV=Khvostof, SEG=Segula, and KIS=Kiska. Station A 263, established by Miller and Bath (1969) on Little Sitkin Island, was reoccupied.
LATITUDE	North latitude in degrees, minutes, and hundredths of minutes
LONGITUDE	West longitude in degrees, minutes, and hundredths of minutes. However, owing to complications in the gravity terrain correction program, the west longitude was arbitrarily carried west of the international dateline (table 1, from RAT 1 to end of listing): long 181°W.= 179°E., and long 182°W.=178°E.

Column heading	Explanation
LONGITUDE (Continued)	Example: Station at $181^{\circ}42.56'$W. long $=180^{\circ}00.00'$E.$-1^{\circ}42.56'$ $=178^{\circ}17.44'$E.
ELEV	Elevation of station, in feet
OBS GRA	Observed gravity, in milligals
F.A.	Free-air anomaly, in milligals
S.B.1	Simple Bouguer anomaly, in milligals for assumed density of 2.67 g/cc
S.B.2	Simple Bouguer anomaly, in milligals for assumed density of 2.37 g/cc
CC	Curvature correction
TC	Hand correction
TER	Total computer correction
(NEAR)	Part of total that represents contribution of compartments that intersect inner circular radius
TOT	Hand plus computer terrain correction
C.B.1	Complete Bouguer anomaly for assumed density of 2.67 g/cc
C.B.2	Complete Bouguer anomaly for assumed density of 2.37 g/cc
ACC	No significance in this listing
STA	Repeat of station number from first column

Table 1.--Principal facts for gravity stations in the Rat and Delarof Islands and Tanaga Island, Alaska

SUMMARY FOR 280 STATIONS IN THE ALEUTIAN ISLANDS FROM TANAGA TO KISKA
COMPUTER TERRAIN CORRECTIONS CARRIED FROM NON-CIRCULAR INNER RADIUS OF 2.615 TO 166.700 KILOMETRES.
DENSITIES ARE 2.67 AND 2.37 G/CC. DENSITY OF 2.67 G/CC IS USED FOR VALUES IN COLUMNS LABELED CC,
TC, TER, (NEAR), AND TOT. TC-HAND CORRECTION. TER-TOTAL COMPUTER CORRECTION. (NEAR)-PART OF TOTAL
THAT REPRESENTS CONTRIBUTION OF COMPARTMENTS THAT INTERSECT INNER CIRCULAR RADIUS. TOT-HAND PLUS
COMPUTER TERRAIN CORRECTION.

STATION	LATITUDE	LONGITUDE	ELEV	OBS GRAV	F.A.	S.B.1	S.B.2	CC	TC	TER	(NEAR)	TOT	C.B.1	C.B.2	ACC	STA
TAN 1	51 43.18	177 57.78	0.0	981400.52	169.76	169.76	169.76	0.0	0.57	7.62	0.0	8.19	177.95	177.03		TAN 1
TAN 2	51 42.92	177 59.15	0.0	981398.00	167.62	167.62	167.62	0.0	0.67	7.58	0.0	8.25	175.87	174.94		TAN 2
TAN 3	51 42.44	178 1.40	0.0	981396.79	167.12	167.12	167.12	0.0	0.32	7.58	0.0	7.90	175.02	174.13		TAN 3
TAN 4	51 42.27	178 3.21	0.0	981400.56	171.14	171.14	171.14	0.0	0.39	7.61	0.0	8.00	179.14	178.24		TAN 4
TAN 5	51 42.29	178 5.24	0.0	981399.46	170.01	170.01	170.01	0.0	0.57	7.67	0.0	8.24	178.25	177.32		TAN 5
TAN 6	51 41.29	178 6.40	0.0	981398.14	170.15	170.15	170.15	0.0	0.27	7.66	0.0	7.93	178.08	177.19		TAN 6
TAN 7	51 43.84	177 57.00	0.0	981403.23	171.51	171.51	171.51	0.0	0.14	7.73	0.0	7.87	179.38	178.49		TAN 7
TAN 8	51 45.43	177 56.91	0.0	981395.52	161.47	161.47	161.47	0.0	0.08	8.11	0.0	8.19	169.66	168.74		TAN 8
TAN 9	51 46.68	177 57.97	0.0	981392.72	156.84	156.84	156.84	0.0	1.01	8.72	0.0	9.73	166.57	165.48		TAN 9
TAN10	51 47.18	177 59.95	0.0	981390.82	154.21	154.21	154.21	0.0	0.23	9.27	0.0	9.50	163.71	162.64		TAN10
TAN11	51 46.88	178 2.17	0.0	981401.10	164.92	164.92	164.92	0.0	0.44	9.08	0.0	9.52	174.44	173.37		TAN11
TAN12	51 47.66	178 3.74	0.0	981406.09	168.77	168.77	168.77	0.0	1.41	9.78	0.0	11.19	179.96	178.70		TAN12
TAN13	51 48.73	178 5.21	0.0	981400.91	162.03	162.03	162.03	0.0	0.58	11.40	0.0	11.98	174.01	172.66		TAN13

Table 1.--Principal facts for gravity stations in the Rat and Delarof Islands and Tanaga Island, Alaska--Continued

TAN14	51	40.27	178	4.31	0.0	981394.28	167.79	167.79	167.79	0.0	0.13	7.60	0.0	7.73	175.52	174.65		TAN14
TAN15	51	40.34	178	2.28	0.0	981391.17	164.57	164.57	164.57	0.0	0.25	7.50	0.0	7.75	172.32	171.45		TAN15
TAN16	51	39.22	178	0.97	0.0	981391.73	166.78	166.78	166.78	0.0	0.24	7.73	0.0	7.97	174.75	173.85		TAN16
TAN17	51	38.01	178	0.52	0.0	981394.03	170.85	170.85	170.85	0.0	0.09	7.86	0.0	7.95	178.80	177.91		TAN17
TAN18	51	39.07	177	57.75	0.0	981389.51	164.78	164.78	164.78	0.0	0.19	7.68	0.0	7.87	172.65	171.77		TAN18
TAN19	51	37.84	177	55.88	248.0	981372.57	172.96	164.50	165.45	0.11	0.27	8.52	0.0	8.79	173.18	173.15		TAN19
TAN20	51	36.23	177	54.92	0.0	981385.92	165.35	165.35	165.35	0.0	0.17	8.45	0.0	8.62	173.97	173.01		TAN20
TAN21	51	38.71	177	55.44	0.0	981389.05	164.84	164.84	164.84	0.0	0.38	7.75	0.0	8.13	172.97	172.06		TAN21
TAN22	51	40.42	177	55.10	0.0	981391.48	164.77	164.77	164.77	0.0	0.31	7.59	0.0	7.90	172.67	171.78		TAN22
TAN23	51	41.53	177	54.14	0.0	981394.04	165.70	165.70	165.70	0.0	0.31	7.49	0.0	7.80	173.50	172.62		TAN23
TAN24	51	41.37	177	50.95	0.0	981396.89	168.79	168.79	168.79	0.0	0.54	7.57	0.0	8.11	176.90	175.99		TAN24
TAN25	51	42.62	177	49.64	0.0	981401.23	171.29	171.29	171.29	0.0	0.12	7.55	0.0	7.67	178.96	178.10		TAN25
TAN26	51	43.39	177	50.29	0.0	981402.65	171.59	171.59	171.59	0.0	0.49	7.57	0.0	8.06	179.65	178.74		TAN26
TAN27	51	42.34	177	52.42	456.0	981369.85	183.20	167.65	169.39	0.20	2.54	8.54	0.0	11.08	178.53	179.05		TAN27
TAN28	51	43.22	177	54.50	456.0	981368.26	180.32	164.77	166.51	0.20	2.31	8.55	0.0	10.86	175.44	175.98		TAN28
TAN29	51	49.71	178	7.18	0.0	981401.42	161.10	161.10	161.10	0.0	2.01	13.28	0.0	15.29	176.39	174.67		TAN29
TAN30	51	50.09	178	8.78	0.0	981399.24	158.37	158.37	158.37	0.0	1.76	15.28	0.0	17.04	175.41	173.50		TAN30
TAN31	51	50.52	178	9.84	0.0	981396.77	155.27	155.27	155.27	0.0	3.77	15.73	0.0	19.50	174.77	172.58		TAN31
TAN32	51	50.97	178	10.72	0.0	981392.37	150.21	150.21	150.21	0.0	9.82	18.66	0.0	28.48	178.69	175.49		TAN32
TAN33	51	55.16	178	5.71	0.0	981400.36	152.07	152.07	152.07	0.0	6.26	23.75	0.0	30.01	182.08	178.71		TAN33
TAN34	51	54.80	178	3.33	0.0	981412.10	164.33	164.33	164.33	0.0	2.95	20.73	0.0	23.68	188.01	185.35		TAN34
TAN35	51	55.06	177	57.81	0.0	981414.99	166.84	166.84	166.84	0.0	5.32	20.21	0.0	25.53	192.37	189.50		TAN35
TAN36	51	51.93	177	55.17	0.0	981415.04	171.47	171.47	171.47	0.0	1.74	13.46	0.0	15.20	186.67	184.96		TAN36
TAN37	51	53.27	177	55.64	0.0	981414.39	168.86	168.86	168.86	0.0	3.87	15.58	0.0	19.45	188.31	186.12		TAN37
TAN38	51	50.63	177	53.22	0.0	981413.80	172.14	172.14	172.14	0.0	1.37	11.25	0.0	12.62	184.76	183.34		TAN38
TAN39	51	49.79	177	51.71	0.0	981419.05	178.61	178.61	178.61	0.0	1.20	10.46	0.0	11.66	190.27	188.96		TAN39
TAN40	51	49.97	177	49.24	0.0	981416.63	175.93	175.93	175.93	0.0	7.02	10.37	0.0	17.39	193.32	191.37		TAN40
TAN41	51	50.51	177	46.56	0.0	981416.98	175.49	175.49	175.49	0.0	5.28	10.70	0.0	15.98	191.47	189.67		TAN41
TAN42	51	49.78	177	45.36	0.0	981417.73	177.31	177.31	177.31	0.0	0.91	9.90	0.0	10.81	188.12	186.90		TAN42
TAN43	51	49.77	177	43.76	0.0	981413.91	173.50	173.50	173.50	0.0	1.93	9.88	0.0	11.81	185.31	183.98		TAN43
TAN44	51	50.78	177	40.63	0.0	981416.66	174.78	174.78	174.78	0.0	3.65	10.62	0.0	14.27	189.05	187.45		TAN44
TAN45	51	50.92	177	38.97	0.0	981410.47	168.38	168.38	168.38	0.0	5.21	10.64	0.0	15.85	184.23	182.45		TAN45
TAN46	51	51.23	177	36.94	0.0	981410.65	168.11	168.11	168.11	0.0	0.09	11.05	0.0	11.14	179.25	178.00		TAN46
TAN47	51	49.88	177	37.51	0.0	981402.16	161.59	161.59	161.59	0.0	0.69	9.68	0.0	10.37	171.96	170.80		TAN47
TAN48	51	49.52	177	38.77	0.0	981403.83	163.79	163.79	163.79	0.0	1.73	9.43	0.0	11.16	174.95	173.70		TAN48
TAN49	51	49.21	177	40.84	1244.0	981311.22	188.60	146.17	150.94	0.50	16.17	14.85	0.0	31.02	176.69	178.03		TAN49
TAN50	51	49.03	177	42.29	0.0	981402.73	163.41	163.41	163.41	0.0	4.90	9.18	0.0	14.08	177.49	175.91		TAN50
TAN51	51	48.53	177	44.54	0.0	981409.17	170.58	170.58	170.58	0.0	0.88	8.98	0.0	9.86	180.44	179.33		TAN51
TAN52	51	48.17	177	46.20	0.0	981409.05	170.99	170.99	170.99	0.0	2.91	9.01	0.0	11.92	182.91	181.57		TAN52
TAN53	51	47.30	177	49.18	0.0	981408.16	171.37	171.37	171.37	0.0	1.27	8.49	0.0	9.76	181.13	180.03		TAN53

Table 1.--Principal facts for gravity stations in the Rat and Delarof Islands and Tanaga Island, Alaska--Continued

TAN54	51	46.43	177	47.87	0.0	981407.07	171.55	171.55	171.55	0.0	0.59	8.26	0.0	8.85	180.40	179.40	TAN54
TAN55	51	45.87	177	48.17	0.0	981402.27	167.57	167.57	167.57	0.0	0.44	8.02	0.0	8.46	176.03	175.08	TAN55
TAN56	51	44.50	177	49.82	0.0	981399.01	166.32	166.32	166.32	0.0	0.16	7.73	0.0	7.89	174.21	173.32	TAN56
TAN57	51	37.08	177	54.61	0.0	981386.94	165.12	165.12	165.12	0.0	0.25	8.14	0.0	8.39	173.51	172.57	TAN57
TAN58	51	36.67	177	55.87	0.0	981387.34	166.12	166.12	166.12	0.0	0.30	8.27	0.0	8.57	174.69	173.73	TAN58
TAN59	51	37.52	177	57.00	0.0	981388.74	166.28	166.28	166.28	0.0	0.57	7.99	0.0	8.56	174.84	173.88	TAN59
TAN60	51	38.99	177	59.38	0.0	981390.91	166.29	166.29	166.29	0.0	0.44	7.76	0.0	8.20	174.49	173.57	TAN60
TAN61	51	40.23	178	6.27	0.0	981396.91	170.48	170.48	170.48	0.0	0.51	7.63	0.0	8.14	178.62	177.71	TAN61
AMA 1	51	15.65	179	4.44	0.0	981383.80	193.45	193.45	193.45	0.0	1.66	15.55	0.0	17.21	210.66	208.73	AMA 1
AMA 2	51	16.84	179	4.39	0.0	981385.32	193.22	193.22	193.22	0.0	3.53	14.82	0.0	18.35	211.57	209.51	AMA 2
AMA 3	51	17.58	179	4.40	0.0	981386.62	193.43	193.43	193.43	0.0	1.56	14.76	0.0	16.32	209.75	207.91	AMA 3
AMA 4	51	18.05	179	6.11	0.0	981381.91	188.03	188.03	188.03	0.0	4.18	15.91	0.0	20.09	208.12	205.86	AMA 4
AMA 5	51	17.88	179	6.89	0.0	981378.83	185.20	185.20	185.20	0.0	3.90	16.68	0.0	20.58	205.78	203.47	AMA 5
AMA 6	51	17.10	179	7.59	0.0	981374.78	182.29	182.29	182.29	0.0	7.63	17.68	0.0	25.31	207.60	204.76	AMA 6
AMA 7	51	15.84	179	8.04	10.0	981373.09	183.40	183.06	183.10	0.00	5.90	18.80	0.0	24.70	207.75	205.01	AMA 7
AMA 8	51	13.47	179	7.47	6.0	981372.70	186.12	185.92	185.94	0.00	4.41	19.31	0.0	23.72	209.63	206.99	AMA 8
AMA 9	51	13.59	179	6.04	0.0	981374.97	187.64	187.64	187.64	0.0	5.04	17.77	0.0	22.81	210.45	207.88	AMA 9
AMA10	51	14.53	179	5.20	0.0	981377.66	188.95	188.95	188.95	0.0	5.28	16.74	0.0	22.02	210.97	208.50	AMA10
AMA11	51	15.05	179	3.90	0.0	981385.03	195.56	195.56	195.56	0.0	1.82	15.74	0.0	17.56	213.12	211.14	AMA11
AMA12	51	14.82	179	7.35	1510.0	981263.86	216.70	165.20	170.99	0.60	14.26	28.57	0.0	42.83	207.43	208.47	AMA12
AMA13	51	14.26	179	8.24	265.0	981353.96	190.57	181.53	182.55	0.12	4.43	21.45	0.0	25.88	207.30	205.42	AMA13
AMA14	51	15.15	179	5.60	695.0	981336.93	212.66	188.96	191.62	0.29	2.23	19.75	0.0	21.98	210.65	210.87	AMA14
AMA15	51	17.22	179	6.56	1690.0	981257.11	223.34	165.70	172.18	0.66	11.77	28.46	0.0	40.23	205.27	207.30	AMA15
AMA16	51	16.90	179	6.32	1675.0	981261.26	226.55	169.42	175.84	0.66	12.93	27.98	0.0	40.91	209.68	211.57	AMA16
AMA17	51	16.68	179	6.62	1730.0	981252.39	223.18	164.18	170.81	0.67	12.73	28.99	0.0	41.72	205.22	207.24	AMA17
UNA 1	51	34.35	179	2.16	0.0	981377.42	159.61	159.61	159.61	0.0	0.09	8.59	0.0	8.68	168.29	167.31	UNA 1
UNA 2	51	35.22	179	2.92	0.0	981378.22	159.13	159.13	159.13	0.0	0.42	8.31	0.0	8.73	167.86	166.88	UNA 2
UNA 3	51	34.46	179	3.27	0.0	981377.59	159.61	159.61	159.61	0.0	0.12	8.72	0.0	8.84	168.45	167.46	UNA 3
KAV 1	51	33.77	178	47.22	0.0	981376.35	159.39	159.39	159.39	0.0	0.13	7.72	0.0	7.85	167.24	166.36	KAV 1
KAV 2	51	33.72	178	45.86	0.0	981374.34	157.45	157.45	157.45	0.0	0.12	7.70	0.0	7.82	165.27	164.39	KAV 2
KAV 3	51	33.40	178	44.34	0.0	981371.72	155.30	155.30	155.30	0.0	0.04	7.76	0.0	7.80	163.10	162.22	KAV 3
KAV 4	51	32.71	178	43.98	0.0	981368.36	152.95	152.95	152.95	0.0	0.05	7.83	0.0	7.88	160.83	159.95	KAV 4
KAV 5	51	32.93	178	45.30	0.0	981371.68	155.95	155.95	155.95	0.0	0.15	7.80	0.0	7.95	163.90	163.01	KAV 5
KAV 6	51	33.37	178	49.02	310.0	981354.59	167.36	156.79	157.97	0.14	1.35	8.78	0.0	10.13	166.78	166.84	KAV 6
KAV 7	51	34.12	178	48.56	0.0	981376.65	159.17	159.17	159.17	0.0	0.42	7.76	0.0	8.18	167.35	166.43	KAV 7
KAV 8	51	34.58	178	49.83	0.0	981377.31	159.16	159.16	159.16	0.0	0.26	7.87	0.0	8.13	167.29	166.38	KAV 8
KAV 9	51	34.65	178	51.39	0.0	981378.49	160.24	160.24	160.24	0.0	0.92	7.92	0.0	8.84	169.08	168.09	KAV 9
KAV10	51	33.99	178	50.08	0.0	981375.91	158.62	158.62	158.62	0.0	0.20	7.79	0.0	7.99	166.61	165.72	KAV10
KAV11	51	33.33	178	49.50	0.0	981372.74	156.42	156.42	156.42	0.0	0.89	7.77	0.0	8.66	165.08	164.11	KAV11
KAV12	51	32.66	178	48.88	0.0	981372.19	156.85	156.85	156.85	0.0	0.37	7.96	0.0	8.33	165.18	164.24	KAV12
KAV13	51	32.71	178	47.41	0.0	981371.76	156.35	156.35	156.35	0.0	0.76	7.90	0.0	8.66	165.01	164.04	KAV13
KAV14	51	32.72	178	46.04	0.0	981371.39	155.97	155.97	155.97	0.0	0.19	7.82	0.0	8.01	163.98	163.08	KAV14
KAV15	51	33.15	178	46.79	185.0	981362.33	163.67	157.36	158.07	0.08	0.45	8.31	0.0	8.76	166.04	165.77	KAV15
KAV16	51	33.31	178	48.71	314.0	981352.55	165.79	155.08	156.28	0.14	0.63	8.80	0.0	9.43	164.38	164.54	KAV16
ILA 1	51	28.87	178	16.35	0.0	981357.56	147.79	147.79	147.79	0.0	0.15	10.45	0.0	10.60	158.39	157.20	ILA 1
ILA 2	51	28.85	178	18.05	0.0	981356.89	147.15	147.15	147.15	0.0	0.20	10.04	0.0	10.24	157.39	156.24	ILA 2
ILA 3	51	29.14	178	20.76	34.0	981364.05	157.08	155.92	156.05	0.02	0.38	9.63	0.0	10.01	165.91	164.92	ILA 3
ILA 4	51	28.99	178	17.08	0.0	981357.08	147.13	147.13	147.13	0.0	0.51	10.21	0.0	10.72	157.85	156.64	ILA 4
OGL 1	51	36.25	178	35.81	0.0	981371.60	151.00	151.00	151.00	0.0	0.05	8.02	0.0	8.07	159.07	158.16	OGL 1
OGL 2	51	35.98	178	36.26	0.0	981371.74	151.54	151.54	151.54	0.0	0.07	7.88	0.0	7.95	159.49	158.60	OGL 2
OGL 3	51	35.41	178	36.17	0.0	981369.42	150.05	150.05	150.05	0.0	0.02	7.88	0.0	7.90	157.95	157.06	OGL 3
OGL 4	51	35.71	178	36.04	0.0	981369.78	149.97	149.97	149.97	0.0	0.05	7.82	0.0	7.87	157.84	156.96	OGL 4
OGL 5	51	35.68	178	35.42	0.0	981367.83	148.07	148.07	148.07	0.0	0.06	7.89	0.0	7.95	156.02	155.13	OGL 5
OGL 6	51	35.03	178	35.29	0.0	981367.96	149.15	149.15	149.15	0.0	0.06	7.82	0.0	7.88	157.03	156.15	OGL 6
OGL 7	51	35.43	178	35.20	0.0	981367.05	147.65	147.65	147.65	0.0	0.02	7.82	0.0	7.84	155.49	154.61	OGL 7
OGL 8	51	35.28	178	34.56	0.0	981365.11	145.93	145.93	145.93	0.0	0.01	7.81	0.0	7.82	153.75	152.87	OGL 8
OGL 9	51	35.82	178	34.21	0.0	981363.83	143.86	143.86	143.86	0.0	0.03	7.87	0.0	7.90	151.76	150.87	OGL 9
OGL10	51	35.51	178	33.80	4.0	981363.72	144.56	144.44	144.46	0.00	0.05	7.81	0.0	7.86	152.30	151.43	OGL10
OGL11	51	35.13	178	33.92	0.0	981364.26	145.30	145.30	145.30	0.0	0.08	7.78	0.0	7.86	153.16	152.27	OGL11
OGL12	51	36.47	178	34.60	0.0	981367.67	146.70	146.70	146.70	0.0	0.05	8.02	0.0	8.07	154.77	153.86	OGL12
OGL13	51	36.30	178	35.24	0.0	981369.68	149.01	149.01	149.01	0.0	0.03	7.95	0.0	7.98	156.99	156.10	OGL13

Table 1.--Principal facts for gravity stations in the Rat and Delarof Islands and Tanaga Island, Alaska--Continued

OGL14	51	35.40	178	37.20	0.0	981370.42	151.07	151.07	151.07	0.0	0.02	7.83	0.0	7.85	158.92	158.04	OGL14
OGL15	51	35.74	178	37.89	0.0	981370.83	150.98	150.98	150.98	0.0	0.02	7.88	0.0	7.90	158.88	157.99	OGL15
OGL16	51	35.31	178	39.04	0.0	981370.60	151.38	151.38	151.38	0.0	0.01	7.74	0.0	7.75	159.13	158.26	OGL16
OGL17	51	35.69	178	38.90	0.0	981370.08	150.30	150.30	150.30	0.0	0.01	7.86	0.0	7.87	158.17	157.29	OGL17
OGL18	51	35.35	178	39.66	0.0	981368.41	149.13	149.13	149.13	0.0	0.01	7.79	0.0	7.80	156.93	156.05	OGL18
OGL19	51	35.40	178	40.48	0.0	981369.84	150.49	150.49	150.49	0.0	0.03	7.83	0.0	7.86	158.35	157.47	OGL19
OGL20	51	36.05	178	40.83	0.0	981370.32	150.01	150.01	150.01	0.0	0.14	8.06	0.0	8.20	158.21	157.29	OGL20
OGL21	51	36.54	178	40.92	0.0	981371.46	150.43	150.43	150.43	0.0	0.08	8.41	0.0	8.49	158.92	157.97	OGL21
OGL22	51	36.70	178	36.71	0.0	981375.88	154.62	154.62	154.62	0.0	0.04	8.22	0.0	8.26	162.88	161.95	OGL22
OGL23	51	36.24	178	37.09	0.0	981373.86	153.27	153.27	153.27	0.0	0.05	7.98	0.0	8.03	161.30	160.40	OGL23
OGL24	51	36.66	178	37.86	0.0	981375.54	154.34	154.34	154.34	0.0	0.08	8.26	0.0	8.34	162.68	161.74	OGL24
OGL25	51	36.70	178	38.63	0.0	981374.04	152.78	152.78	152.78	0.0	0.06	8.34	0.0	8.40	161.18	160.23	OGL25
OGL26	51	36.72	178	39.64	0.0	981372.02	150.73	150.73	150.73	0.0	0.09	8.46	0.0	8.55	159.28	158.32	OGL26
OGL27	51	36.64	178	40.26	0.0	981371.49	150.32	150.32	150.32	0.0	0.08	8.45	0.0	8.53	158.85	157.90	OGL27
OGL28	51	33.49	178	34.15	0.0	981367.27	150.72	150.72	150.72	0.0	0.80	7.88	0.0	8.68	159.40	158.42	OGL28
OGL29	51	34.28	178	40.89	0.0	981370.78	153.07	153.07	153.07	0.0	0.04	7.72	0.0	7.76	160.83	159.96	OGL29
OGL30	51	35.05	178	42.43	0.0	981370.28	151.44	151.44	151.44	0.0	0.01	7.86	0.0	7.87	159.31	158.42	OGL30
ULA 1	51	20.95	178	57.53	0.0	981396.87	198.73	198.73	198.73	0.0	0.96	11.55	0.0	12.51	211.24	209.83	ULA 1
ULA 2	51	20.78	178	55.53	115.0	981388.10	201.02	197.10	197.54	0.05	0.24	12.34	0.0	12.58	209.63	208.66	ULA 2
ULA 3	51	20.70	178	54.88	143.0	981384.53	200.20	195.32	195.87	0.06	0.36	12.70	0.0	13.06	208.32	207.41	ULA 3
ULA 4	51	21.53	178	54.83	0.0	981394.62	195.62	195.62	195.62	0.0	2.05	11.88	0.0	13.93	209.55	207.99	ULA 4
ULA 5	51	22.35	178	55.28	0.0	981395.42	195.22	195.22	195.22	0.0	2.48	11.78	0.0	14.26	209.48	207.87	ULA 5
ULA 6	51	23.15	178	56.02	0.0	981395.06	193.68	193.68	193.68	0.0	2.79	11.47	0.0	14.26	207.94	206.34	ULA 6
ULA 7	51	23.91	178	57.35	0.0	981396.45	193.96	193.96	193.96	0.0	0.69	11.30	0.0	11.99	205.95	204.60	ULA 7
ULA 8	51	23.37	178	58.68	148.0	981388.92	201.14	196.09	196.66	0.07	0.28	11.77	0.0	12.05	208.07	207.29	ULA 8
ULA 9	51	22.67	178	58.75	148.0	981388.62	201.87	196.82	197.39	0.07	0.14	11.82	0.0	11.96	208.72	207.95	ULA 9
ULA10	51	21.44	179	0.84	0.0	981398.23	199.37	199.37	199.37	0.0	0.12	12.21	0.0	12.33	211.70	210.32	ULA10
ULA11	51	22.04	178	58.23	0.0	981397.41	197.66	197.66	197.66	0.0	0.70	11.33	0.0	12.03	209.69	208.34	ULA11
ULA12	51	20.79	178	58.35	531.0	981362.82	214.84	196.73	198.76	0.23	1.85	13.82	0.0	15.67	212.17	212.47	ULA12
ULA13	51	19.87	178	59.03	0.0	981391.93	195.37	195.37	195.37	0.0	1.55	12.03	0.0	13.58	208.95	207.43	ULA13
ULA14	51	19.02	178	58.79	130.0	981381.28	198.20	193.77	194.26	0.06	0.45	12.96	0.0	13.41	207.12	206.11	ULA14
ULA15	51	18.30	178	59.42	0.0	981386.14	191.89	191.89	191.89	0.0	0.36	12.94	0.0	13.30	205.19	203.70	ULA15
ULA16	51	21.15	178	56.47	105.0	981390.34	201.78	198.20	198.60	0.05	0.24	11.99	0.0	12.23	210.38	209.42	ULA16
ULA17	51	21.76	178	57.19	210.0	981384.97	205.38	198.22	199.02	0.09	0.09	12.08	0.0	12.17	210.30	209.75	ULA17
RAT 1	51	47.98	181	40.21	750.0	981345.16	177.89	152.31	155.18	0.32	5.88	7.61	0.0	13.49	165.48	166.88	RAT 1
RAT 2	51	47.53	181	40.26	1127.0	981319.33	188.17	149.73	154.05	0.46	5.96	9.38	0.0	15.34	164.61	167.26	RAT 2
RAT 3	51	48.72	181	43.42	427.0	981359.13	160.41	145.85	147.48	0.18	2.35	6.22	0.0	8.57	154.23	154.93	RAT 3
RAT 4	51	49.29	181	45.30	397.0	981360.02	157.65	144.11	145.63	0.17	3.34	6.13	0.0	9.47	153.40	153.88	RAT 4
RAT 5	51	46.67	181	38.43	185.0	981382.10	163.63	157.32	158.03	0.08	0.72	5.79	0.0	6.51	163.75	163.74	RAT 5
RAT 6	51	46.90	181	39.79	718.0	981345.42	176.73	152.24	154.99	0.30	5.13	7.67	0.0	12.80	164.74	166.09	RAT 6
RAT 7	51	47.07	181	40.71	830.0	981337.87	179.46	151.15	154.33	0.35	4.44	8.25	0.0	12.69	163.49	165.29	RAT 7
RAT 8	51	48.15	181	41.83	1057.0	981314.86	176.21	140.16	144.21	0.43	10.46	9.19	0.0	19.65	159.38	161.27	RAT 8
RAT 9	51	48.14	181	42.06	1018.0	981317.09	174.79	140.07	143.97	0.42	8.19	8.95	0.0	17.14	156.79	158.81	RAT 9
RAT10	51	47.70	181	41.16	1051.0	981319.10	180.54	144.69	148.72	0.43	7.95	9.04	0.0	16.99	161.25	163.42	RAT10
LSI 1	51	57.32	181	32.05	0.0	981376.84	125.39	125.39	125.39	0.0	2.26	5.38	0.0	7.64	133.03	132.17	LSI 1
LSI 2	51	56.93	181	33.72	6.0	981376.48	126.16	125.96	125.98	0.00	0.44	5.10	0.0	5.54	131.49	130.89	LSI 2
LSI 3	51	56.43	181	32.59	0.0	981374.39	124.24	124.24	124.24	0.0	3.03	5.21	0.0	8.24	132.48	131.56	LSI 3
LSI 4	51	55.71	181	32.37	0.0	981374.88	125.78	125.78	125.78	0.0	0.36	5.29	0.0	5.65	131.43	130.80	LSI 4
LSI 5	51	54.00	181	29.87	8.0	981355.94	110.10	109.83	109.86	0.00	0.63	5.64	0.0	6.27	116.09	115.42	LSI 5
LSI 6	51	54.67	181	27.01	0.0	981357.43	109.86	109.86	109.86	0.0	1.98	6.20	0.0	8.18	118.04	117.12	LSI 6
LSI 7	51	57.89	181	25.46	0.0	981359.19	106.91	106.91	106.91	0.0	7.98	6.22	0.0	14.20	121.11	119.51	LSI 7
LSI 8	51	58.89	181	28.92	0.0	981371.66	117.91	117.91	117.91	0.0	4.23	5.76	0.0	9.99	127.90	126.78	LSI 8
LSI 9	51	59.62	181	30.02	0.0	981374.32	119.51	119.51	119.51	0.0	0.25	5.54	0.0	5.79	125.30	124.65	LSI 9
LSI10	51	57.92	181	32.54	0.0	981376.50	124.17	124.17	124.17	0.0	1.17	5.24	0.0	6.41	130.58	129.86	LSI10
LSI11	51	58.14	181	30.59	1303.0	981281.52	151.38	106.94	111.93	0.53	14.18	10.51	0.0	24.69	131.10	133.38	LSI11
LSI12	51	56.89	181	29.27	1980.0	981232.56	167.89	100.36	107.95	0.75	11.36	14.80	0.0	26.16	125.77	130.50	LSI12
LSI13	51	55.18	181	28.99	1960.0	981214.27	150.22	83.37	90.88	0.75	17.15	15.64	0.0	32.79	115.41	119.32	LSI13
A 263	51	59.03	181	30.33	0.0	981374.76	120.81	120.81	120.81	0.0	0.80	5.67	0.0	6.47	127.28	126.55	A 263
KOV 1	51	58.83	181	43.47	870.0	981315.71	143.85	114.18	117.51	0.36	12.79	8.53	0.0	21.32	135.13	136.11	KOV 1
KOV 2	51	58.86	181	42.56	180.0	981372.19	135.41	129.27	129.96	0.08	0.94	5.59	0.0	6.53	135.72	135.69	KOV 2
SEG 1	52	2.88	181	52.93	0.0	981397.68	138.10	138.10	138.10	0.0	1.39	7.29	0.0	8.68	146.78	145.81	SEG 1

Table 1.--Principal facts for gravity stations in the Rat and Delarof Islands and Tanaga Island, Alaska--Continued

SEG 2	52	2.38	181	54.34	0.0	981401.02	142.17	142.17	142.17	0.0	0.55	7.08	0.0	7.63	149.80	148.94	SEG 2
SEG 3	52	1.72	181	54.14	0.0	981400.30	142.42	142.42	142.42	0.0	2.84	6.66	0.0	9.50	151.92	150.85	SEG 3
SEG 4	51	59.98	181	53.44	20.0	981385.79	132.33	131.65	131.72	0.01	5.17	6.50	0.0	11.67	143.31	142.08	SEG 4
SEG 5	51	59.69	181	52.27	0.0	981385.10	130.19	130.19	130.19	0.0	5.49	6.09	0.0	11.58	141.77	140.47	SEG 5
SEG 6	51	59.52	181	51.57	183.0	981374.39	136.93	130.69	131.39	0.08	2.95	6.33	0.0	9.28	139.88	139.55	SEG 6
SEG 7	51	59.62	181	49.94	0.0	981388.02	133.21	133.21	133.21	0.0	1.72	5.89	0.0	7.61	140.82	139.97	SEG 7
SEG 8	52	0.01	181	48.99	0.0	981387.47	132.09	132.09	132.09	0.0	1.05	5.84	0.0	6.89	138.98	138.21	SEG 8
SEG 9	52	0.28	181	48.46	74.0	981381.32	132.50	129.98	130.26	0.03	1.30	6.07	0.0	7.37	137.31	136.77	SEG 9
SEG10	52	1.33	181	49.11	0.0	981386.34	129.03	129.03	129.03	0.0	3.90	6.14	0.0	10.04	139.07	137.94	SEG10
SEG11	52	2.11	181	49.19	139.0	981379.66	134.28	129.54	130.07	0.06	2.08	6.53	0.0	8.61	138.09	137.66	SEG11
SEG12	52	2.60	181	50.50	0.0	981396.25	137.08	137.08	137.08	0.0	3.78	6.58	0.0	10.36	147.44	146.28	SEG12
SEG13	52	3.15	181	51.00	0.0	981401.51	141.54	141.54	141.54	0.0	0.66	7.23	0.0	7.89	149.43	148.55	SEG13
SEG14	52	0.48	181	50.34	1250.0	981298.81	160.27	117.64	122.43	0.51	8.07	10.93	0.0	19.00	136.13	138.84	SEG14
KIS 1	51	58.26	182	27.84	0.0	981395.91	143.09	143.09	143.09	0.0	0.83	6.71	0.0	7.54	150.63	149.78	KIS 1
KIS 2	51	57.76	182	29.83	1355.0	981318.38	193.69	147.48	152.67	0.54	4.04	11.45	0.0	15.49	162.42	165.94	KIS 2
KIS 3	51	58.20	182	33.33	1323.0	981323.79	195.44	150.32	155.39	0.53	7.45	11.57	0.0	19.02	168.80	171.79	KIS 3
KIS 4	51	56.96	182	37.97	1844.0	981287.81	210.25	147.36	154.42	0.71	14.62	16.51	0.0	31.13	177.78	181.42	KIS 4
KIS 5	51	55.04	182	41.01	1269.0	981303.01	174.21	130.93	135.79	0.51	8.54	12.82	0.0	21.36	151.77	154.29	KIS 5
KIS 6	52	1.87	182	24.16	797.0	981352.47	169.31	142.13	145.18	0.33	4.13	9.13	0.0	13.26	155.05	156.65	KIS 6
KIS 7	52	6.26	182	23.66	4000.0	981101.30	212.80	76.37	91.70	1.26	21.87	47.06	0.0	68.93	144.05	151.77	KIS 7
KIS 8	52	6.24	182	23.46	3953.0	981106.20	213.31	78.49	93.64	1.25	21.10	46.29	0.0	67.39	144.63	152.34	KIS 8
KIS 9	52	6.31	182	22.30	2925.0	981185.59	195.98	96.22	107.43	1.02	14.24	31.55	0.0	45.79	140.98	147.16	KIS 9
KIS10	52	6.92	182	22.58	2070.0	981247.41	176.55	105.95	113.88	0.78	10.70	24.00	0.0	34.70	139.87	143.99	KIS10
KIS11	52	2.54	182	25.06	725.0	981360.10	169.19	144.46	147.24	0.31	2.89	9.00	0.0	11.89	156.05	157.52	KIS11
KIS12	52	2.82	182	27.53	553.0	981375.49	168.00	149.14	151.26	0.24	1.80	8.57	0.0	10.37	159.27	160.25	KIS12
KIS13	51	58.92	182	27.34	0.0	981394.10	140.31	140.31	140.31	0.0	1.00	6.70	0.0	7.70	148.01	147.15	KIS13
KIS14	51	59.79	182	25.30	0.0	981395.74	140.68	140.68	140.68	0.0	0.16	6.48	0.0	6.64	147.32	146.57	KIS14
KIS15	52	0.49	182	24.95	0.0	981402.91	146.83	146.83	146.83	0.0	0.59	6.66	0.0	7.25	154.08	153.27	KIS15
KIS16	52	1.21	182	24.60	0.0	981405.99	148.85	148.85	148.85	0.0	1.46	6.85	0.0	8.31	157.16	156.22	KIS16
KIS17	52	4.00	182	21.79	0.0	981407.25	146.04	146.04	146.04	0.0	1.23	8.36	0.0	9.59	155.63	154.55	KIS17
KIS18	52	5.48	182	19.49	0.0	981410.68	147.31	147.31	147.31	0.0	1.52	8.82	0.0	10.34	157.65	156.49	KIS18
KIS19	52	6.39	182	20.29	0.0	981402.53	137.83	137.83	137.83	0.0	7.67	10.69	0.0	18.36	156.19	154.12	KIS19
KIS20	52	7.14	182	21.36	0.0	981390.37	124.57	124.57	124.57	0.0	11.62	11.03	0.0	22.65	147.22	144.68	KIS20
KIS21	52	7.58	182	22.84	0.0	981385.60	119.16	119.16	119.16	0.0	12.12	12.55	0.0	24.67	143.83	141.06	KIS21
KIS22	52	7.90	182	24.39	0.0	981387.68	120.77	120.77	120.77	0.0	6.04	14.63	0.0	20.67	141.44	139.12	KIS22
KIS23	52	6.74	182	26.19	0.0	981386.48	121.27	121.27	121.27	0.0	6.85	11.55	0.0	18.40	139.67	137.60	KIS23
KIS24	52	6.23	182	27.20	182.0	981380.65	133.30	127.09	127.79	0.08	4.00	10.69	0.0	14.69	141.70	140.76	KIS24
KIS25	52	5.03	182	26.89	0.0	981402.38	139.66	139.66	139.66	0.0	1.28	8.77	0.0	10.05	149.71	148.58	KIS25
KIS26	52	1.34	182	26.95	1153.0	981322.75	173.83	134.51	138.92	0.47	3.89	10.66	0.0	14.55	148.59	151.42	KIS26
KIS27	52	4.09	182	28.19	0.0	981411.20	149.86	149.86	149.86	0.0	0.04	8.05	0.0	8.09	157.95	157.04	KIS27
KIS28	52	3.10	182	29.21	0.0	981412.61	152.71	152.71	152.71	0.0	0.46	7.49	0.0	7.95	160.66	159.77	KIS28
KIS29	52	1.83	182	29.50	0.0	981409.56	151.52	151.52	151.52	0.0	1.84	7.13	0.0	8.97	160.49	159.48	KIS29
KIS30	52	0.48	182	29.72	0.0	981400.86	144.79	144.79	144.79	0.0	1.50	6.84	0.0	8.34	153.13	152.20	KIS30
KIS31	51	59.64	182	30.06	0.0	981400.73	145.89	145.89	145.89	0.0	5.05	6.77	0.0	11.82	157.71	156.38	KIS31
KIS32	51	59.09	182	30.82	0.0	981412.75	158.71	158.71	158.71	0.0	1.77	7.01	0.0	8.78	167.49	166.50	KIS32
KIS33	51	58.68	182	35.99	0.0	981420.77	167.33	167.33	167.33	0.0	1.69	7.11	0.0	8.80	176.13	175.14	KIS33
KIS34	51	58.50	182	36.88	0.0	981420.60	167.43	167.43	167.43	0.0	2.74	7.38	0.0	10.12	177.55	176.41	KIS34
KIS35	51	57.27	182	39.40	0.0	981414.80	163.42	163.42	163.42	0.0	3.40	7.93	0.0	11.33	174.75	173.48	KIS35
KIS36	51	55.93	182	39.97	0.0	981402.10	152.68	152.68	152.68	0.0	3.89	7.87	0.0	11.76	164.44	163.11	KIS36
KIS37	51	57.69	182	27.65	0.0	981399.20	147.21	147.21	147.21	0.0	1.59	6.63	0.0	8.22	155.43	154.50	KIS37
KIS38	51	57.07	182	24.63	0.0	981400.21	149.13	149.13	149.13	0.0	1.37	6.35	0.0	7.72	156.85	155.98	KIS38
KIS39	51	56.54	182	23.59	0.0	981402.02	151.71	151.71	151.71	0.0	0.98	6.32	0.0	7.30	159.01	158.19	KIS39
KIS40	51	55.73	182	24.04	0.0	981397.79	148.66	148.66	148.66	0.0	0.55	6.31	0.0	6.86	155.52	154.75	KIS40
KIS41	51	55.91	182	26.38	0.0	981396.27	146.88	146.88	146.88	0.0	1.07	6.59	0.0	7.66	154.54	153.68	KIS41
KIS42	51	54.92	182	26.58	99.0	981385.99	147.36	143.98	144.36	0.04	0.93	6.81	0.0	7.74	151.68	151.19	KIS42
KIS43	51	55.56	182	27.87	0.0	981397.33	148.45	148.45	148.45	0.0	1.38	6.69	0.0	8.07	156.52	155.61	KIS43
KIS44	51	56.41	182	30.07	0.0	981407.92	157.80	157.80	157.80	0.0	2.34	6.73	0.0	9.07	166.87	165.85	KIS44
KIS45	51	56.23	182	31.21	0.0	981408.91	159.05	159.05	159.05	0.0	0.66	6.90	0.0	7.56	166.61	165.76	KIS45
KIS46	51	56.18	182	31.64	0.0	981410.26	160.48	160.48	160.48	0.0	0.21	6.99	0.0	7.20	167.68	166.87	KIS46
KIS47	51	55.14	182	32.30	0.0	981405.32	157.06	157.06	157.06	0.0	0.21	7.01	0.0	7.22	164.28	163.47	KIS47
KIS48	51	56.23	182	33.84	0.0	981415.36	165.50	165.50	165.50	0.0	0.59	7.21	0.0	7.80	173.30	172.42	KIS48

Table 1.--Principal facts for gravity stations in the Rat and Delarof Islands and Tanaga Island, Alaska--Continued

KIS49	51	55.91	182	35.44	0.0	981413.05	163.66	163.66	163.66	0.0	1.32	7.30	0.0	8.62	172.28	171.31	KIS49
KIS50	51	55.23	182	37.48	0.0	981400.76	152.37	152.37	152.37	0.0	0.85	7.52	0.0	8.37	160.74	159.80	KIS50
KIS51	51	54.59	182	38.64	0.0	981395.59	148.13	148.13	148.13	0.0	0.82	7.81	0.0	8.63	156.76	155.79	KIS51
KIS52	51	53.96	182	39.24	0.0	981389.28	142.74	142.74	142.74	0.0	0.77	7.81	0.0	8.58	151.32	150.35	KIS52
KIS53	51	53.13	182	39.83	0.0	981382.94	137.62	137.62	137.62	0.0	1.69	8.03	0.0	9.72	147.34	146.25	KIS53
KIS54	51	51.60	182	39.98	0.0	981376.69	133.61	133.61	133.61	0.0	1.19	8.11	0.0	9.30	142.91	141.87	KIS54
KIS55	51	50.32	182	40.42	0.0	981377.41	136.20	136.20	136.20	0.0	0.26	8.44	0.0	8.70	144.90	143.92	KIS55
KIS56	51	49.81	182	40.96	0.0	981378.81	138.35	138.35	138.35	0.0	0.24	8.62	0.0	8.86	147.21	146.21	KIS56
KIS57	51	48.55	182	39.54	147.0	981367.02	142.22	137.21	137.77	0.06	3.67	9.27	0.0	12.94	150.08	149.20	KIS57
KIS58	51	50.75	182	42.20	0.0	981378.06	136.22	136.22	136.22	0.0	0.48	8.60	0.0	9.08	145.30	144.28	KIS58
KIS59	51	51.55	182	43.45	0.0	981380.27	137.26	137.26	137.26	0.0	0.50	8.77	0.0	9.27	146.53	145.49	KIS59
KIS60	51	52.16	182	44.85	0.0	981380.95	137.05	137.05	137.05	0.0	0.97	9.10	0.0	10.07	147.12	145.99	KIS60
KIS61	51	53.04	182	46.30	0.0	981380.56	135.37	135.37	135.37	0.0	1.15	9.81	0.0	10.96	146.33	145.09	KIS61
KIS62	51	53.03	182	47.64	0.0	981380.35	135.17	135.17	135.17	0.0	0.43	10.95	0.0	11.38	146.55	145.27	KIS62
KIS63	51	54.02	182	46.88	0.0	981384.10	137.48	137.48	137.48	0.0	2.17	10.75	0.0	12.92	150.40	148.95	KIS63
KIS64	51	54.51	182	45.03	0.0	981387.10	139.76	139.76	139.76	0.0	2.65	9.52	0.0	12.17	151.93	150.56	KIS64
KIS65	51	54.55	182	44.54	0.0	981386.11	138.71	138.71	138.71	0.0	3.58	9.26	0.0	12.84	151.55	150.11	KIS65
KIS66	51	55.19	182	42.29	0.0	981391.80	143.46	143.46	143.46	0.0	3.65	8.35	0.0	12.00	155.46	154.11	KIS66
KIS67	51	57.70	182	22.49	0.0	981404.92	152.91	152.91	152.91	0.0	0.48	6.19	0.0	6.67	159.58	158.83	KIS67
KIS68	51	57.62	182	21.14	0.0	981406.04	154.15	154.15	154.15	0.0	2.43	6.13	0.0	8.56	162.71	161.75	KIS68
KIS69	51	57.31	182	19.29	0.0	981407.38	155.94	155.94	155.94	0.0	1.70	6.10	0.0	7.80	163.74	162.86	KIS69
KIS70	51	57.16	182	17.63	0.0	981407.96	156.74	156.74	156.74	0.0	0.33	6.06	0.0	6.39	163.13	162.41	KIS70
KIS71	51	56.87	182	12.95	0.0	981401.85	151.06	151.06	151.06	0.0	0.66	5.91	0.0	6.57	157.63	156.89	KIS71
KIS72	51	56.87	182	21.48	0.0	981406.14	155.35	155.35	155.35	0.0	0.84	6.17	0.0	7.01	162.36	161.58	KIS72
KIS73	52	4.43	182	26.20	0.0	981409.44	147.60	147.60	147.60	0.0	0.75	8.29	0.0	9.04	156.64	155.63	KIS73
KIS74	52	3.35	182	23.97	0.0	981409.81	149.55	149.55	149.55	0.0	0.26	7.85	0.0	8.11	157.66	156.75	KIS74
KIS75	52	3.92	182	23.59	0.0	981407.90	146.81	146.81	146.81	0.0	1.31	8.65	0.0	9.96	156.77	155.65	KIS75
KIS76	52	4.31	182	24.10	0.0	981407.48	145.82	145.82	145.82	0.0	2.32	8.20	0.0	10.52	156.34	155.15	KIS76
KIS77	52	5.02	182	22.98	1225.0	981319.12	171.60	129.82	134.51	0.50	6.26	13.26	0.0	19.52	148.84	151.40	KIS77
KIS78	52	4.46	182	20.97	745.0	981354.24	162.41	137.00	139.86	0.31	4.66	10.50	0.0	15.16	151.84	153.03	KIS78
KIS79	52	4.82	182	20.01	707.0	981358.14	162.21	138.10	140.81	0.30	5.07	10.66	0.0	15.73	153.53	154.51	KIS79
KIS80	52	5.18	182	20.12	784.0	981353.26	164.04	137.30	140.30	0.33	4.99	11.38	0.0	16.37	153.34	154.54	KIS80
KIS81	52	3.00	182	21.96	415.0	981377.97	157.24	143.09	144.68	0.18	3.54	8.23	0.0	11.77	154.68	154.97	KIS81
KIS82	52	0.74	182	28.71	790.0	981354.75	172.58	145.64	148.66	0.33	1.97	8.94	0.0	10.91	156.21	158.05	KIS82
KIS83	52	0.06	182	27.14	0.0	981395.54	140.08	140.08	140.08	0.0	1.17	6.73	0.0	7.90	147.98	147.09	KIS83
KIS84	51	58.90	182	25.96	285.0	981372.73	145.77	136.05	137.14	0.12	3.31	6.95	0.0	10.26	146.18	146.14	KIS84
KIS85	51	56.65	182	25.64	690.0	981350.54	164.95	141.42	144.06	0.29	3.96	8.22	0.0	12.18	153.30	154.61	KIS85
KIS86	51	56.52	182	28.14	1380.0	981309.40	188.87	141.80	147.09	0.55	5.68	11.41	0.0	17.09	158.34	161.77	KIS86
KIS87	51	55.52	182	29.15	0.0	981399.01	150.19	150.19	150.19	0.0	0.93	6.82	0.0	7.75	157.94	157.07	KIS87
KIS88	51	55.88	182	32.48	0.0	981411.91	162.57	162.57	162.57	0.0	0.23	7.06	0.0	7.29	169.86	169.04	KIS88
KIS89	51	55.18	182	38.91	585.0	981362.54	169.22	149.27	151.51	0.25	2.51	8.97	0.0	11.48	160.50	161.48	KIS89
KIS90	51	53.69	182	41.44	700.0	981340.67	160.35	136.48	139.16	0.30	0.90	10.00	0.0	10.90	147.08	148.57	KIS90
KIS91	51	52.73	182	41.86	674.0	981337.03	155.67	132.68	135.27	0.29	1.01	10.18	0.0	11.19	143.59	144.95	KIS91
KIS92	51	52.63	182	43.55	625.0	981341.82	156.00	134.68	137.08	0.27	0.67	10.54	0.0	11.21	145.63	146.79	KIS92

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