STATE OF ALASKA

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS

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October 1981

This is a preliminary publication of the Alaska Division of Geological and Geophysical Surveys and has not received final editing and review. The author will appreciate candid comments on the accuracy of the data and will welcome suggestions to improve the report.

Alaska Open-file Report 139

TABULATED GRAVITY FIELD DATA, COOK INLET, SOUTH-CENTRAL ALASKA

By
Steve W. Hackett

STATE OF ALASKA
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According to Alaska Statute 41, the Alaska Division of Geological and Geophysical Surveys is charged with conducting 'geological and geophysical surveys to determine the potential of Alaska lands for production of metals, minerals, fuels, and geothermal resources; the locations and supplies of ground waters and construction materials; the potential geologic hazards to buildings, roads, bridges, and other installations and structures: and shall conduct other surveys and investigations as will advance knowledge of the geology of Alaska.'

In addition, the Division shall collect, evaluate, and publish data on the underground, surface, and coastal waters of the state. It shall also process and file data from water-well-drilling logs.

DGGS performs numerous functions, all under the direction of the State Geologist---resource investigations (including mineral, petroleum, and water resources), geologic-hazard and geochemical investigations, and information services.

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In 1974 the Alaska Division of Geological and Geophysical Surveys (DGGS) provided logistical support for the author who occupied new gravity sites in the Beluga Basin and adjacent area (Hackett, 1978). A LaCoste Romberg geodetic gravimeter model LCR G248 was used to obtain gravity values. The gravimeter-counter readings may be converted to uncorrected milligals by referring to table 1.

New gravity sites were established in July 1976 during a reconnaissance resource evaluation program based at Talkeetna in the eastern Upper Cook Inlet region (Hackett, 1978a,b). Additional gravity stations were occupied with a LaCoste Romberg geodetic gravimeter model LCR G108 during a U.S. Geological Survey (USGS)-DGGS joint field project based at Snug Harbor (Lyle and Morehouse, 1977). These readings may be converted to uncorrected milligals by referring to table 2.

In 1978 DGGS geologist James Riehle and geological assistants Karen Emmel and Chad Price, occupied several additional gravity stations while mapping surficial geology along the west side of Cook Inlet (Riehle and Emmel, 1980). We appreciate the additional preliminary regional gravity data and base-station information provided by the USGS, Branch of Regional Geophysics, Menlo Park, California.

The 1974, 1976, and 1978 gravity data were reduced to a common datum (Morelli and others, 1974) and processed with a modified version of a gravity reduction program used by the USGS in presenting previous Alaskan gravity data (Barnes, 1968, 1972, 1977). The gravity field data are stored on computer tape and are listed by latitude and longitude and by station number in tables 3 and 4. The study area is shown in figure 1.

INTERPRETATION OF TABLE 3

There are three basic components of the field data contained in table 3---the heading, or project information (H), the base information (B), and the gravity data itself (D). The 80-column printout format for all three components is described below and in Barnes (1968, 1972).

The format for the header card (project information) leads each block of data and is shown first. The rightmost column contains the code 'H.'

The base cards (B) generally have several columns. The leftmost one is a 12-character block: two digits for the GN-AN, a four-digit station identity code, and a six-character base-1 reading. The second column has 10 digits, four for the base-1 time of the reading and six for the base-2 readout. Column 3 has 12 characters, four for the base-2 time and eight for the gravity base reading or for the altimetry reference. The next column has 13 digits, six for latitude and seven for longitude. The remaining card columns contain 12 spaces, four for elevation and the last for general comments. The rightmost column contains the code 'B' (for base information).

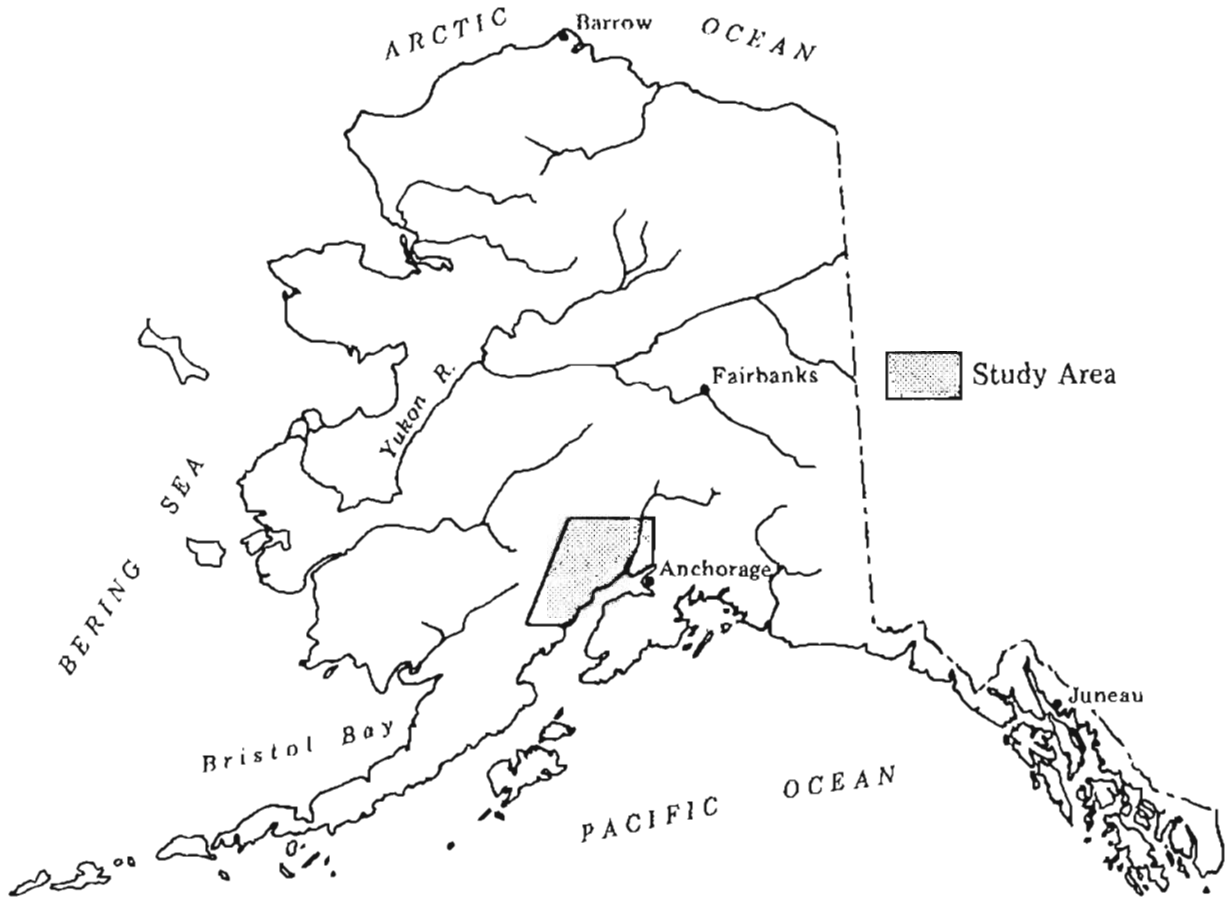

Figure 1. Location of study area.

The actual tabular part, or data (D), has seven columns. The first is a 15-character block, with the first four designating the station, the next four the time, and the last eight the gravimeter values. Column 2 contains the altimeter readings: column 3 is gravity base identification. Column 4 contains 19 characters: six for elevation, six for latitude, and seven for longitude. Column 5 denotes the altimeter base identification. The sixth column contains the average air temperature in the first three digits and the WDB (wet bulb depression) in the last two. The last column is the card code 'D' for data (gravity station information).

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Table 1. Milligal values for LaCoste & Romberg, Inc.
Model G Gravity Meter 248

Counter reading*	Value in milligals	Factor for interval	Counter reading*	Value in milligals	Factor for interval
000	00.00	1.04585			
100	104.59	1.04585	3600	3765.05	1.04576
200	209.17	1.04585	3700	3869.62	1.04574
300	313.76	1.04585	3800	3974.20	1.04572
400	418.34	1.04585	3900	4078.77	1.04569
500	522.93	1.04585	4000	4183.34	1.04566
600	627.51	1.04585	4100	4287.91	1.04564
700	732.10	1.04585	4200	4392.47	1.04561
800	836.68	1.04585	4300	4497.03	1.04559
900	941.27	1.04585	4400	4601.59	1.04556
1000	1045.85	1.04585	4500	4706.15	1.04554
1100	1150.44	1.04585	4600	4810.70	1.04551
1200	1255.02	1.04585	4700	4915.25	1.04549
1300	1359.61	1.04585	4800	5019.80	1.04545
1400	1464.19	1.04585	4900	5124.34	1.04544
1500	1568.78	1.04585	5000	5228.89	1.04540
1600	1673.36	1.04585	5100	5333.43	1.04538
1700	1777.95	1.04585	5200	5437.97	1.04535
1800	1882.53	1.04585	5300	5542.50	1.04533
1900	1987.12	1.04585	5400	5647.03	1.04530
2000	2091.70	1.04585	5500	5751.56	1.04529
2100	2196.29	1.04585	5600	5856.09	1.04526
2200	2300.87	1.04585	5700	5960.62	1.04524
2300	2405.46	1.04585	5800	6065.14	1.04521
2400	2510.04	1.04585	5900	6169.66	1.04519
2500	2614.63	1.04585	6000	6274.18	1.04516
2600	2719.21	1.04585	6100	6378.70	1.04515
2700	2823.80	1.04585	6200	6483.21	1.04512
2800	2928.38	1.04585	6300	6587.73	1.04510
2900	3032.97	1.04584	6400	6692.24	1.04507
3000	3137.55	1.04584	6500	6796.74	1.04505
3100	3242.13	1.04584	6600	6901.25	1.04503
3200	3346.72	1.04584	6700	7005.75	1.04500
3300	3451.30	1.04584	6800	7110.25	1.04498
3400	3555.89	1.04583	6900	7214.75	1.04495
3500	3660.47	1.04580	7000	7319.24	

*Note: Right wheel on counter indicates approximately 0.1 milligal.
10/21/70
BAP

Table 2. Milligal values for LaCoste & Romberg, Inc.
Model G Gravity Meter 108

Counter reading*	Value in milligals	Factor for interval	Counter reading*	Value in milligals	Factor for interval
000	000	1.04480			
100	104.48	1.04475	3600	3762.43	1.04645
200	208.96	1.04470	3700	3867.08	1.04650
300	313.43	1.04465	3800	3971.73	1.04655
400	417.89	1.04460	3900	4076.39	1.04665
500	522.35	1.04455	4000	4181.05	1.04670
600	626.81	1.04455	4100	4285.72	1.04675
700	731.27	1.04450	4200	4390.40	1.04680
800	835.72	1.04450	4300	4495.07	1.04680
900	940.17	1.04450	4400	4599.75	1.04685
1000	1044.62	1.04450	4500	4704.44	1.04685
1100	1149.07	1.04455	4600	4809.12	1.04685
1200	1253.53	1.04460	4700	4913.81	1.04685
1300	1357.99	1.04465	4800	5018.49	1.04680
1400	1462.45	1.04470	4900	5123.17	1.04680
1500	1566.92	1.04475	5000	5227.85	1.04675
1600	1671.39	1.04480	5100	5332.53	1.04675
1700	1775.87	1.04485	5200	5437.21	1.04670
1800	1880.36	1.04490	5300	5541.87	1.04660
1900	1984.85	1.04500	5400	5646.54	1.04655
2000	2089.34	1.04505	5500	5751.19	1.04645
2100	2193.85	1.04515	5600	5855.84	1.04630
2200	2298.36	1.04520	5700	5960.47	1.04620
2300	2402.89	1.04530	5800	6065.09	1.04605
2400	2507.42	1.04535	5900	6169.69	1.04590
2500	2611.95	1.04545	6000	6274.28	1.04575
2600	2716.49	1.04550	6100	6378.86	1.04555
2700	2821.04	1.04560	6200	6483.41	1.04535
2800	2925.60	1.04570	6300	6587.95	1.04510
2900	3030.17	1.04580	6400	6692.46	1.04485
3000	3134.75	1.04590	6500	6796.94	1.04455
3100	3239.34	1.04600	6600	6901.40	1.04425
3200	3343.94	1.04610	6700	7005.82	1.04395
3300	3448.55	1.04620	6800	7110.22	1.04365
3400	3553.17	1.04625	6900	7214.58	1.04335
3500	3657.80	1.04635	7000	7318.92	

*Note: Right wheel on counter indicates approximately 0.1 milligal.

12-15-65

LH

Table 3. Gravity field data

-ADD 1ØFGRV, ,LIST,SEQ=/81,6,1Ø,1Ø/
-DESC
-PGMR HACKETT
-LANG DAT

PAGE 1 OF

GRAVITY MODULE INPUT FORM

LIB MOD - 1ØFSS142

PROJECT	TRAVERSE	STATE	MO	DAY	YR	METER	P	T	FACTOR	GMT	DENS	PROJ CHIEF	OBSERVERS	CODE
				/	/									

CN AN	IDENT	BASE RDG 1	CORR 1	TIME 1	BASE RDG 2	CORR 2	TIME 2	BASE	GRAVITY ELEV	LATITUDE	LONGITUDE	ELEV	DATUM COMMENT	CODE

STAT	TIME	GRAVIMETER	HT TO REF	ALTIM ONE	HT TO GM	AUX STAT NO	GRAV BASE	T.C.	REFERENCE ELEVATION	LATITUDE	LONGITUDE	ACCUR P	G	E	S	ALT BASE	BASE ALTIMETER	ALT CORR	AV AIR TEMP	W B D	AIR DENS CORR	R A	P E
							G									A							
							G									A							
							G									A							
							G									A							
							G									A							
							G									A							
							G									A							
							G									A							
							G									A							
							G									A							
							G									A							
							G									A							
							G									A							
							G									A							

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IALKEETNA  TALK.RIVER ALK  08/09/76 G108  0        9267HACKETTHACKETT          TK76H
  G1TLKR538183     0729538185     07429820040S 621940150064S 350 BARNES1975   TK76B
  G2TAM0538231     0735538233     09309B200454 621937150069S 340 MOTEL BASE   TK76B
  A1TLKR  1464     0729  1465     0742       350 621940150064S 350 BARNES1975      B
  A2TAM0  1468     0735  1470     0930       340 621935150070O 340 MOTEL BASE      B
TLKR0729538183  0 1464        G1       3500621940150064SA BAA1           60         D
TAM00735538231  0 1468    TLKMG1       3400621937150069SA RAA1           60         D
TLKR0742538185  0 1465        G1       3500621940150064SA BAA1           60         D
TR010753537733  0 1530        G2       435.621780150045OA MCA2           56         D
TR020801537678  0 1440        G2       340.621535150048OA MCA2           57         D
TR030807536812  0 1507        G2       380.621340150050OA MCA2           56         D
TR040814537910  0 1501        G2       375.621220150039OA MCA2           56         D
TR050821536770  0 1525        G2       440.621100150016OA MCA2           57         D
TR060829537114  0 1550        G2       425.620940150015OA MCA2           58         D
TR070835536849  0 1490        G2       390.620810150020OA MCA2           57         D
TR080844537035  0 1472        G2       3470620900150048OA BCA2           58         D
TR090851536684  0 1462        G2       350.621010150066OA MCA2           57         D
TR100859536265  0 1433        G2       300.621060150102OA MCA2           58         D
TAM00930538233  0 1470    TLKMG2       3400621937150069SA RAA2           58         D
  G3TAM0538225     1110538226     153398200454 621937150069S 340 MOTEL BASE3 TK76B
  A3TAM0  1470     1110  1511     1533       340               340 MOTEL BASE3     B
TAM01110538225  0 1470    TLKMG3       3400621937150079SA RAA3           70         D
TA011215533992  0 2195        G3      1050.621730150000OA MCA3           68         D
TA021224536740  0 1721        G3       625.621685149570OA JCA3           67         D
TA031236526833  0 3552        G3      2505 621775149470OA GCA3           65         D
TA041242532570  0 2594        G3      1495 621600149474SA KCA3           65         D
TA051250533889  0 2438        G3      1345 621550149500OA JCA3           65         D
TA061300535514  0 1980        G3       8959621350149530OA JCA3           65         D
TA071308536372  0 1645        G3       585.621145149572OA JCA3           65         D
TA081315535612  0 1822        G3       730.621080149549SA JCA3           65         D
TA091324534228  0 2142        G3      1175.621080149504OA KCA3           68         D
TA101332532359  0 2535        G3      1385.621150149470OA KCA3           62         D
TA111342526265  0 3671        G3      25110620975149415OA ACA3           63         D
TA121351532851  0 2474        G3      1305.620950149390OA KCA3           64         D
TA131400533286  0 2340        G3      1150.620790149433OA KCA3           66         D
TA141412535516  0 2103        G3       915.620645149469OA KCA3           65         D
TA151416536548  0 1770        G3       725.620485149525OA JCA3           66         D
TA161425536991  0 1564        G3       480.620420149550OA JCA3           66         D
TA171434537002  0 1471        G3       350.620325149583OA JCA3           66         D
TA181437536233  0 1380        G3       175.615780150052SA JCA3           66         D
TA191450537110  0 1395        G3       230.620625150049OA JCA3           67         D
TA201457537239  0 1475        G3       355.620800150009OA JCA3           67         D
TA211504536694  0 1590        G3       445.620950149599OA JCA3           68         D
TA221514536663  0 1725        G3       605.621320149582SA JCA3           68         D
TA231522537147  0 1673        G3       600.621495149594OA JCA3           68         D
  G4TAM0538226     1533538229     185698200454 621937150069S 340 MOTEL BASE4 TK76B
  A4TAM0  1511     1533  1544     1856       340               340 MOTEL BASE4     B
TAM01533538226  0 1511    TLKMG4       3400621937150069SA RAA4           69         D
TA241611538975  0 1735        G4       560.620790149557SA NCA4           72         D
TA251629537619  0 1510        G4       300.620080149578OA JCA4           72         D
TA261636537695  0 1673        G4       505.615920149506OA KCA4           69         D
TA271647536887  0 1715        G4       525.620045149474OA KCA4           70         D
TA281656535211  0 1747        G4       570.620115149406OA KCA4           70         D
TA291707525249  0 3645        G4      2450.620275149398OA NCA4           66         D
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Table 3 (cont.)

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TA301718534883  0 2425          G4      1280.6203501494680A KCA4         66        D
TA311728536762  0 1825          G4       685.6201001495100A JCA4         64        D
TA321737536953  0 1558          G4       455.6157751495330A JCA4         67        D
TA331745536668  0 1441          G4       250.6157501495860A JCA4         69        D
TA341750536805  0 1415          G4       205.6157001500120A JCA4         69        D
TA351758535943  0 1355          G4       145.6154601500680A JCA4         70        D
TA361808536176  0 1416          G4       200.6150251500050A JCA4         71        D
TA371815536143  0 1490          G4       320.6152451495640A JCA4         71        D
TA381821535692  0 1580          G4       455.6153401495380A JCA4         71        D
TA391831533492  0 1995          G4       840.6155001494800A KCA4         69        D
TAM01856538229  0 1541     TLKMG4       34006219371500695A RAA4         70        D
  G5TAM0538223    3447538226      381698200454 6219371500695 3400MOTEL BASE5 TK76B
  A5TAM0  1522    3447  1532      3816      340 6219371500695 340 MOTEL BASE5      B
TAM03447538223  0 1522     TLKMG5       34006219371500695A RAA5         64        D
KA013512534478  0 2156          G5      1000.6210801495100A KCA5         64        D
KA023520534116  0 2260          G5      1245.6208551493830A KCA5         62        D
KA033532536634  0 1991          G5       780.6205501493920A KCA5         61        D
KA043549536617  0 1552          G5       450.6156201495450A MCA5         61        D
KA053601534672  0 1700          G5       505.6150601495090A JCA5         61        D
KA063614528684  0 2770          G5      1530.6148251494540A MCA5         60        D
KA073648524170  0 3460          G5      22900615065149430OA ACA5         63        D
KA083658518533  0 4360          G5      31680615330149418OA ACA5         61        D
KA093707531861  0 2450          G5      1275.6156701494630A KCA5         61        D
KA103716528048  0 2943          G5      1770.6157501494100A KCA5         59        D
KA113725524396  0 3682          G5      24500615930149329OA ACA5         60        D
KA123740536990  0 1548          G5       375.6205951495900A MCA5         61        D
KA133755531225  0 2842          G5      1835.6212401493915A KCA5         62        D
TAM03816538226  0 1532     TLKMG5       34006219371500695A RAA5         63        D
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Table 3 (cont.)

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LCOOKINLET TUXEDNIBAY AK    07/01/76 G108  0       09267HACKETTHACKETT         CI76H
   G1RE07528211      0810528211      165298191440 600655152347400023SNUG HARBOR CI76B
   A1RE070 1288      08100 1228      165200000023 600655152347400023 ALT NO 1        B
   A2RE070 1289      08100 1220      165200000023 600655152347400023 ALT NO 2        B
RE070810528211     01288          G1      0002306006551523474      A1          05402     D
TB010840531029     01272          G1      0000006016851525310      A1          05905     D
TB020845531234     01275          G1      0010006017821525413      A1          05905     D
TB030851531438     01275          G1      0007006018491525635      A1          05804     D
TB040857531094     01271          G1      0001006017381525968      A1          05806     D
TB050912531676     01282          G1      0001006017061525690      A1          05803     D
TB060929531690     01272          G1      0001006017121525650      A1          06103     D
TB070950531911     01269          G1      0000006017281525600      A1          06105     D
TB081002531888     01271          G1      0000006017271525570      A1          06204     D
TB091016531850     01269          G1      0005006017071525545      A1          06305     D
TB101032531400     01269          G1      0000006016861525550      A1          06304     D
TB111053531145     01271          G1      000206016501525528      A1          06304     D
TB121109530978     01269          G1      0000006016161525500      A1          06304     D
TB131129530862     01268          G1      0000006015901525490      A1          06306     D
TB141156530612     01262          G1      0000006015411525490      A1          06407     D
TB151233530684     01256          G1      0000006015201525570      A1          06809     D
TB161246530432     01253          G1      0000006015171525490      A1          06809     D
TB171258530425     01252          G1      0000006014751525480      A1          06710     D
TB181314530484     01253          G1      0000006014421525470      A1          06809     D
TB191334530693     01253          G1      0000006014131525455      A1          07010     D
TB201442530779     01244          G1      0000806013871525442      A1          06710     D
TB211500530753     01242          G1      0000306013721525395      A1          06809     D
TB221508530537     01239          G1      0000006013451525290      A1          06508     D
TB231514533049     01238          G1      0000006013131525195      A1          06507     D
TB241519530792     01238          G1      0000006012821525050      A1          06405     D
TB251522530488     01233          G1      0000006012291524860      A1          06408     D
TB261530530832     01236          G1      0000006012021524748      A1          06306     D
TB271538530794     01227          G1      0000006011771524593      A1          06205     D
TB281602524956     01414          G1      0025005958031564795      A1          06508     D
TB291610525418     01356          G1      0017505957631524738      A1          06406     D
TB301615525640     01311          G1      0011005956801524655      A1          06404     D
TB311620525946     01267          G1      0006805955821524625      A1          06204     D
TB321627525854     01239          G1      0003205955151524590      A1          06103     D
TB331632525821     01229          G1      0000005954111524542      A1          06004     D
TB341641526739     01233          G1      0000005959141523902      A1          05702     D
RE071652528211     01228          G1      0000006006551523474      A1          05903     D
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Table 3 (cont.)

Table 3 (cont.)

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GRAVITY    CRESC LAKE AK   06/15/78 G108  1      09267HACKETTPRICE & EMMEL CI78H
  G1SNUG527571    1545000895        98191440 6006601523453 0000  RE07(1976) CI78B
  G2SNBA528351        528356                 6006601523453 0000             CI78B
  A1SNUG000895        000895    1550   000-5 6006601523453                  CI78B
  A2SNBA000900    1550000900    1735   00000 6006601523453                  CI78B
SNUG1545527571   00895       G1          -56006601523453    A1          06000     D
SNBA1550528351   00900       G1     0000006006600523453     A1          06000     D
CL011645529943   01520       G2     0006326021121525153     A2          05500     D
CL021705529938   01470       G2     00X6006022121524560     A2          05500     D
SNBA1735528356   00900       G2     0000006006601523453     A2          06000     D
WCOOKINLET COOK INLET      06/16/78 G108  1      09267HACKETTEMMEL `            CI78H
  G2SNBA528336    1020528352    1800          6006601523453 0000             CI78B
  A2SNBA000960    1020000990    1800   00000 6006601523453 0000             CI78B
SNBA1020528336   00960       G2     0000006006601523453     A2          05200     D
CI011140530967   01280       G2     0003306024101522847     A2          05600     D
CI021720529198   00975       G2     0000006017201522480     A2          05400     D
SNBA1800528352   00990       G2     0000006006601523453     A2          05600     D
GRAVITY    TUXEDNIBAY AK   06/17/78 G108  1      09267HACKETTPRICE             CI78H
  G2SNBA528340    0930528340    1135          6006601523453                  CI78B
  A2SNBA000900    0930000872    1135   00000 6006601523450                  CI78B
SNBA0930528340   00900       G2     0000006006601523453     A2          05000     D
TB010955530322   00898       G2          6009871524080     A2          04900     D
TB021025530941   00881       G2          6011401524470     A2          05000     D
TB031100530749   00881       G2          6014251525500     A2          04900     D
SNBA1135528340   00872       G2     0000006006601523453     A2          04900     D
WCOOKINLET WEST FORE  AK   06/18/78 G108  1      09267HACKETTEMMEL/PRICE       CI78H
  G2SNBA528343    1315528318    2005          6006601523453                  CI78B
  A2SNBA000800    1315000805    2005          6006601523453                  CI78B
SNBA1315528343   00800       G2     0000006006601523453     A2          05300     D
WF011445536348   00855       G2     0000566050851520710     A2          05600     D
WF021605528694   01928       G2     0012006052451520380     A2          05300     D
WF031715530508   01035       G2     0002506049701515180     A2          05600     D
WF041926529481   00818       G2     0000236024601521720     A2          05000     D
SNBA2005528318   00805       G2     0000006006601523453     A2          05000     D
WCOOKINLET DRIFTRIVER AK   06/19/78 G108  1      09267HACKETTEMMEL/PRICE       CI78H
  G2SNBA528353    0840528318    1650          6006601523453                  CI78B
  A2SNBA000800    0840000790    1650          6006601523453                  CI78B
SNBA0840528353   00800       G2     0000006006601523453     A2          04900     D
DR011005534339   00898       G2     0001106034201522075     A2          05400     D
DR021135524851   02080       G2     0013006033601525140     A2          06600     D
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Table 3 (cont.)

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DR031215525220   02200        G2     00140060334515247 70     A2          05800      D
DR041400528842   01640        G2     00080060342015242 80     A2          06300      D
DR051450532687   01100        G2     00030060358015233 87     A2          06100      D
DR061500532735   01020        G2     00020060363015230 80     A2          06600      D
DR071505533567   00975        G2     00018060371015228 00     A2          06300      D
DR081535535029   00902        G2     00008060376015225 10     A2          06600      D
DR091545536175   00860        G2     00007060378015222 80     A2          06500      D
DR101600530263   00780        G2     00000060354015209 67     A2          06000      D
SNBA1650529318   00790        G2     00000060066015234 53     A2          06100      D
WCOOKINLET REDOUTCREK AK   06/20/78 G108  1       09267HACKETTEMMEL                 CI78H
  G2SNBA5283200800    528311     1900          6006601523453                       CI78B
  A2SNBA0007000800    000720     1900          6006601523453                       CI78B
SNBA0800528320   00700        G2     00000060066015234 53     A2          07000      D
RC011130530898   00960        G2     00028060240515226 20     A2          07000      D
RC021400         00720        G2     000000                   A2          07000      D
SNBA1900528311   00720        G2     00000060066015234 53     A2          07000      D
WCOOKINLET FOSSILPT   AK   06/21/78 G108  1       09267HACKETTEMMEL/HOWLAND CI78H
  G2SNBA528318     1530528319     1655          6006601523453                       CI78B
  A2SNBA000700     1530000700     1055          6006601523453                       CI78B
SNBA1530528318   00700        G2     00000060066015234 53     A2          07000      D
FP011545529594   00694        G2     00000060082015240 80     A2          07200      D
SNBA1655528319   00700        G2     00000060066015234 53     A2          07200      D
WCOOKINLET TUXBAYTBY  AK   06/22/78 G108  1       09267HACKETTPRICE                 CI78H
  G2SNBA528329     0800528342     1100          6006601523453                       CI78B
  A2SNBA000900     0800000915     1100          6006601523453                       CI78B
SNBA0800528329   00900        G2     00000060066015234 53     A2          05600      D
TBY10825530767   00910        G2          60142515255 00      A2          05600      D
TBY20845530717   01030        G2     00015560153615301 95     A2          05900      D
TBY30930529973   00930        G2     00006060158515308 10     A2          06000      D
TBY40940531476   00916        G2     00006060180515300 20     A2          06200      D
TBY51000531679   00920        G2          60149315251 70      A2          06100      D
SNBA1100528342   00915        G2     00000060066015234 53     A2          05200      D
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Table 4. Gravity field data

The following gravity data are not in the usual (pre-1976) DGGS format.

GRAVITY SURVEY OF BELUGA BASIN, SOUTH-CENTRAL ALASKA AUG. 1974

OBSERVERS: J. Kienle
S. Hackett

GRAVITY METER G248

STATION	LATITUDE	LONGITUDE	ELEV(FT)	Q	OBSERVED
BL31 BASE	61 10.54N	149 58.87W	88.	01	981921.2
BELU BASE	61 10.25N	151 02.55W	84.	02	981878.3
BELU 1	61 11.38N	151 06.80W	158.	04	981882.6
BELU 2	61 13.43N	151 08.71W	85.	05	981900.9
BELU 3	61 12.22N	151 10.17W	100.	05	981898.1
BELU 4	61 13.52N	151 13.04W	140.	05	981916.3
BELU 5	61 14.41N	151 14.59W	175.	05	981936.8
BELU 6	61 16.27N	151 15.82W	215.	05	981939.5
BELU 7	61 16.84N	151 17.34W	220.	05	981934.3
BELU 8	61 17.92N	151 17.60W	230.	05	981927.6
BELU 9	61 19.36N	151 18.42W	240.	05	981924.3
BELU 10	61 19.93N	151 19.33W	242.	04	981924.8
BELU 11	61 21.19N	151 20.38W	244.	04	981928.5
BELU 12	61 22.97N	151 25.93W	245.	04	981931.5
BELU 13	61 23.97N	151 28.44W	256.	04	981931.7
BELU 16	61 26.27N	151 30.79W	400.	07	981931.9
BELU 18	61 28.60N	151 37.13W	800.	07	981912.6
BELU 19	61 19.05N	151 26.10W	430.	05	981916.7
BELU 20	61 16.32N	151 21.99W	511.	04	981919.0
THEO 1	61 11.44N	150 59.59W	27.	02	981882.6
THEO 2	61 11.87N	150 58.09W	27.	02	981882.6
THEO 3	61 12.71N	150 53.49W	13.	03	981884.6
THEO 4	61 14.06N	150 47.99W	8.	06	981880.2
THEO 5	61 14.38N	150 51.23W	10.	05	981884.0
THEO 8	61 16.45N	150 53.95W	45.	05	981893.8
THEO 9	61 18.08N	150 56.26W	90.	05	981896.8
THEO 11	61 15.27N	150 54.70W	82.	08	981886.9
THEO 12	61 13.45N	150 57.51W	30.	08	981887.4
OLSE 2	61 16.18N	151 05.08W	75.	05	981897.6
OLSE 3	61 16.79N	151 06.94W	230.	07	981899.7
OLSE 5	61 19.62N	151 09.00W	425.	05	981913.4
OLSE 6	61 20.49N	151 12.07W	690.	08	981901.9
OLSE 7	61 21.14N	151 15.36W	425.	05	981919.8
OLSE 8	61 22.67N	151 18.70W	380.	05	981925.2
OLSE 9	61 24.78N	151 18.06W	435.	05	981923.8
OLSE 10	61 27.16N	151 19.41W	1025.	08	981896.5
OLSE 11	61 28.11N	151 09.29W	780.	08	981912.3
OLSE 12	61 28.00N	151 07.73W	685.	05	981924.4
OLSE 13	61 26.50N	151 05.41W	590.	07	981929.6
OLSE 14	61 24.60N	151 03.81W	490.	07	981934.4
OLSE 15	61 22.47N	151 01.75W	340.	07	981930.1

Table 4 (cont.)

REDO 9	60	03.43N	152	44.59W	85.	07	981913.4
REDO 10	60	08.17N	152	40.88W	14.	02	981927.8
REDO 11	60	13.49N	152	38.32W	22.	02	981940.3
REDO 12	60	18.38N	152	38.60W	145.	05	981943.5
REDO 13	60	21.39N	152	50.57W	599.	04	981934.0
REDO 14	60	24.68N	152	49.17W	1200.	07	981903.9
REDO 15	60	29.43N	152	55.76W	1405.	07	981866.8
REDO 16	60	33.90N	152	53.51W	1275.	07	981868.5
REDO 17	60	33.85N	152	42.30W	835.	07	981922.5
REDO 19	60	37.15N	152	26.88W	195.	07	981979.4
REDO 20	60	41.90N	152	17.54W	95.	07	981991.6
REDO 21	60	48.20N	152	03.05W	55.	05	981988.3
REDO 22	60	54.69N	151	57.14W	60.	05	981988.0
REDO 23	60	59.78N	151	57.60W	75.	04	981973.3
MCAR 1	61	04.56N	151	07.82W	100.	10	981870.4
MCAR 2	61	02.37N	151	16.00W	33.	02	981895.3
MCAR 3	61	00.85N	151	26.51W	30.	02	981917.1
MCAR 4	61	01.44N	151	40.99W	40.	05	981955.3
MCAR 5	61	02.51N	151	47.03W	75.	05	981949.8
MCAR 6	61	04.11N	151	46.06W	90.	05	981947.5
MCAR 7	61	05.88N	151	47.16W	115.	05	981948.7
MCAR 8	61	08.11N	151	48.18W	160.	05	981943.1
MCAR 9	61	09.31N	151	50.32W	180.	05	981945.3
MCAR 10	61	10.25N	151	54.39W	225.	07	981922.3
MCAR 11	61	11.03N	151	58.27W	340.	07	981935.5
MCAR 12	61	11.52N	152	00.51W	405.	07	981931.8
MCAR 13	61	11.89N	152	04.29W	530.	07	981917.8
MCAR 14	61	11.96N	152	09.36W	740.	08	981905.5
MCAR 15	61	14.32N	152	27.02W	1145.	07	981881.0
MCAR 16	61	15.91N	152	29.29W	1435.	07	981849.8
MCAR 17	61	19.16N	152	34.89W	2275.	07	981800.9
MCAR 18	61	21.78N	152	40.22W	2730.	07	981777.7
MCAR 19	61	26.38N	152	44.77W	2790.	07	981770.7
MCAR 20	61	23.95N	152	43.77W	2850.	07	981771.2
MCAR 21	61	21.92N	152	52.07W	3750.	04	981730.1
MCAR 22	61	20.27N	152	59.62W	1560.	07	981870.0
MCAR 23	61	17.14N	152	53.47W	1245.	07	981883.3
MCAR 24	61	13.77N	152	47.58W	1150.	07	981887.8
MCAR 25	61	11.83N	152	35.37W	1142.	04	981877.7
MCAR 26	61	11.50N	152	32.04W	1145.	10	981874.2
MCAR 27	61	12.74N	152	20.26W	1105.	08	981876.4
MCAR 28	61	13.70N	151	59.84W	820.	07	981903.0
MCAR 29	61	14.68N	151	50.68W	2725.	10	981765.8
MCAR 30	61	14.06N	151	28.04W	1820.	08	981853.9
MCAR 31	61	12.80N	151	19.41W	750.	08	981914.7
DICK 1	61	29.41N	151	22.36W	1355.	03	981880.4
DICK 2	61	34.29N	151	34.06W	980.	04	981927.7
DICK 3	61	38.47N	151	40.19W	2256.	04	981847.8
DICK 6	61	46.13N	151	44.91W	2560.	04	981833.3
DICK 7	61	48.72N	151	51.49W	2850.	08	981817.1
DICK 8	61	50.69N	151	44.91W	2241.	04	981849.9
DICK 9	61	49.42N	151	31.12W	575.	07	981965.3
DICK 10	61	49.16N	151	20.85W	340.	05	981978.0
DICK 12	61	57.97N	151	13.01W	149.	03	981983.9

Table 4 (cont.)

Table 4 (cont.)