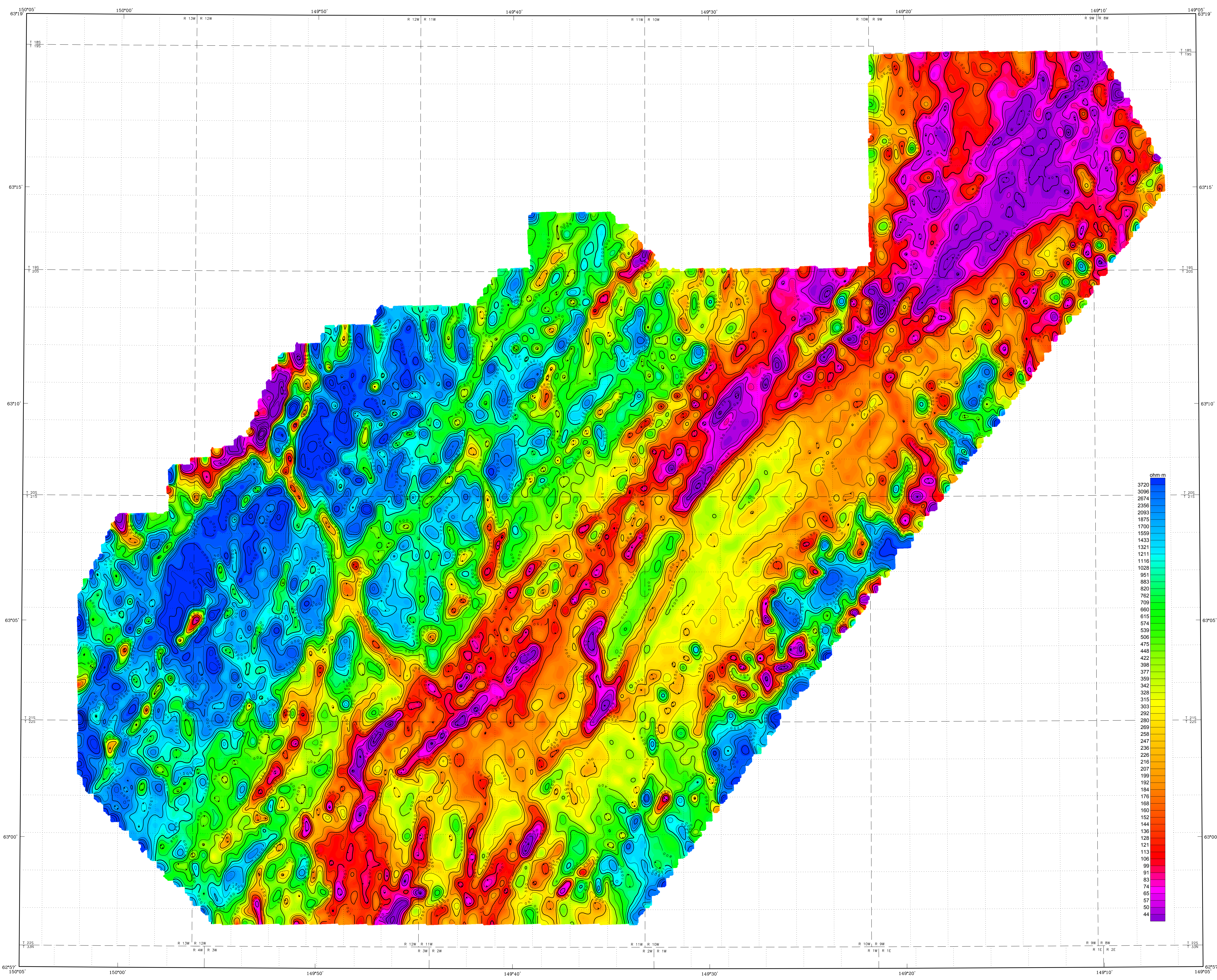
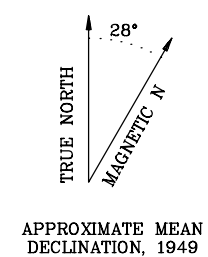
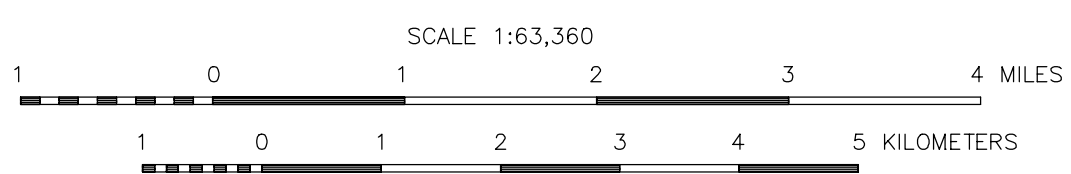
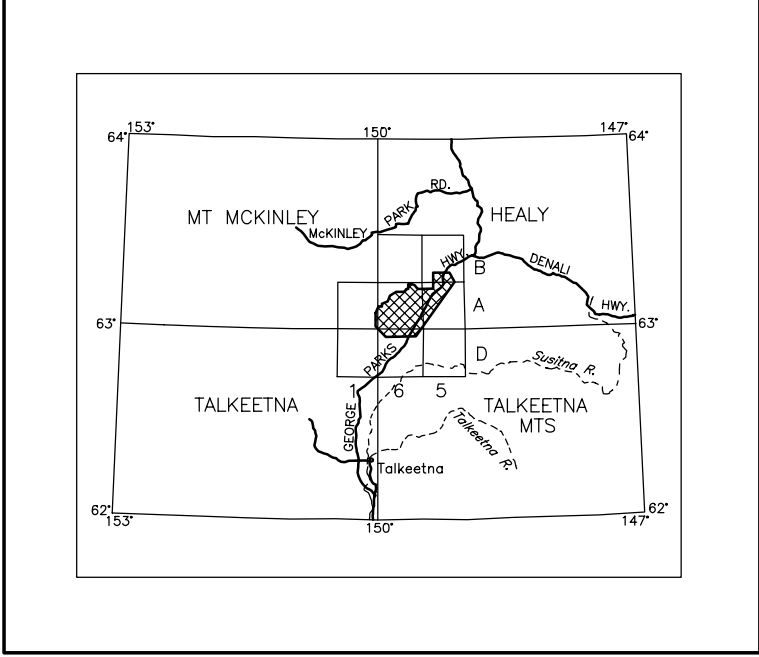




Graticule courtesy from U.S. Geological Survey, Brady, A. A., 1992, A-K, 1992, B-G, 1994, D-H, 1994, I-L, 1994, M-O, 1994, P-Q, 1994, R-S, 1994, T-V, 1994, W-X, 1994, Y-Z, 1994, AA-AB, 1994, AC-AD, 1994, AE-AF, 1994, AG-AH, 1994, AI-AJ, 1994, AK-AL, 1994, AM-AN, 1994, AO-AP, 1994, AQ-AR, 1994, AS-AT, 1994, AU-AV, 1994, AW-AX, 1994, AY-AZ, 1994, BA-BB, 1994, BC-BD, 1994, BE-BF, 1994, BG-BH, 1994, BI-BJ, 1994, BK-BL, 1994, BM-BN, 1994, BO-BP, 1994, BQ-BR, 1994, BS-BT, 1994, BU-BV, 1994, BW-BX, 1994, BY-BZ, 1994, CA-CB, 1994, CC-CD, 1994, CE-CF, 1994, CG-CH, 1994, CI-CJ, 1994, CK-CL, 1994, CM-CN, 1994, CO-CP, 1994, CQ-CR, 1994, CS-CT, 1994, CU-CV, 1994, CW-CX, 1994, CY-CZ, 1994, DA-DB, 1994, DC-DD, 1994, DE-DF, 1994, DG-DH, 1994, DI-DJ, 1994, DK-DM, 1994, DN-DO, 1994, DP-DQ, 1994, DR-DS, 1994, DT-DU, 1994, DV-DW, 1994, DX-DY, 1994, DZ-DA, 1994, EA-EB, 1994, EC-ED, 1994, EE-EF, 1994, EG-EH, 1994, EI-EJ, 1994, EK-EL, 1994, EM-EN, 1994, EO-EP, 1994, EQ-ER, 1994, ES-ET, 1994, EU-EV, 1994, EW-EX, 1994, EY-EZ, 1994, FA-FB, 1994, FC-FD, 1994, FE-FG, 1994, FH-FI, 1994, FJ-FK, 1994, FL-FO, 1994, FP-FQ, 1994, FR-FT, 1994, FU-FV, 1994, FW-FX, 1994, FY-FZ, 1994, GA-GB, 1994, GC-GD, 1994, GE-GF, 1994, GH-GI, 1994, GJ-GK, 1994, GL-GM, 1994, GN-GO, 1994, GP-GQ, 1994, GR-GS, 1994, GT-GU, 1994, GV-GW, 1994, GX-GY, 1994, GZ-GA, 1994, HA-HB, 1994, HC-HD, 1994, HE-HF, 1994, HG-HI, 1994, HJ-HK, 1994, HL-HM, 1994, HN-HO, 1994, HP-HQ, 1994, HR-HT, 1994, HU-HV, 1994, HW-HX, 1994, HY-HZ, 1994, IA-IB, 1994, IC-ID, 1994, IE-IF, 1994, IG-IH, 1994, II-IL, 1994, IM-IO, 1994, IP-IQ, 1994, IR-IS, 1994, IT-IV, 1994, IW-IX, 1994, IY-IZ, 1994, JA-JB, 1994, JC-JD, 1994, JE-JF, 1994, JG-JH, 1994, JI-JK, 1994, JL-JM, 1994, JN-JO, 1994, JP-JQ, 1994, JR-JS, 1994, JT-JU, 1994, JV-JW, 1994, JX-JY, 1994, JZ-JA, 1994, KA-KB, 1994, KC-KD, 1994, KE-KF, 1994, KG-KH, 1994, KI-KJ, 1994, KK-KL, 1994, KM-KO, 1994, KP-KQ, 1994, KR-KS, 1994, KT-KU, 1994, KV-KW, 1994, KX-KY, 1994, KZ-KA, 1994, LA-LB, 1994, LC-LD, 1994, LE-LF, 1994, LG-LH, 1994, LI-LJ, 1994, LK-LM, 1994, LN-LO, 1994, LP-LQ, 1994, LR-LS, 1994, LT-LV, 1994, LW-LX, 1994, LY-LZ, 1994, MA-MB, 1994, MC-MD, 1994, ME-MF, 1994, MG-MH, 1994, MI-MJ, 1994, MK-ML, 1994, MN-MO, 1994, MP-MQ, 1994, MR-MS, 1994, MT-MU, 1994, MV-MW, 1994, MX-MY, 1994, MZ-MA, 1994, NA-NB, 1994, NC-ND, 1994, NE-NF, 1994, NG-NH, 1994, NI-NJ, 1994, NK-NL, 1994, NM-NO, 1994, NP-NQ, 1994, NR-NS, 1994, NT-NV, 1994, NW-NX, 1994, NY-NZ, 1994, OA-OB, 1994, OC-OD, 1994, OE-OF, 1994, OG-OH, 1994, OI-OJ, 1994, OK-OL, 1994, OM-OO, 1994, OP-OQ, 1994, OR-OS, 1994, OT-OV, 1994, OW-OX, 1994, OY-OZ, 1994, PA-PB, 1994, PC-PD, 1994, PE-PF, 1994, PG-PH, 1994, PI-PJ, 1994, PK-PL, 1994, PM-PO, 1994, PP-PQ, 1994, PR-PS, 1994, PT-PV, 1994, PW-PX, 1994, PY-PZ, 1994, QA-QB, 1994, QC-QD, 1994, QE-QF, 1994, QG-QH, 1994, QI-QJ, 1994, QK-QL, 1994, QM-QO, 1994, QP-QQ, 1994, QR-QS, 1994, QT-QV, 1994, QW-QX, 1994, QY-QZ, 1994, RA-RB, 1994, RC-RD, 1994, RE-RF, 1994, RG-RH, 1994, RI-RJ, 1994, RK-RL, 1994, RM-RO, 1994, RP-RQ, 1994, RR-RS, 1994, RT-RV, 1994, RW-RX, 1994, RY-RZ, 1994, SA-SB, 1994, SC-SD, 1994, SE-SF, 1994, SG-SH, 1994, SI-SJ, 1994, SK-SL, 1994, SM-SO, 1994, SP-SQ, 1994, SR-SS, 1994, ST-SV, 1994, SW-SX, 1994, SY-SZ, 1994, TA-TB, 1994, TC-TD, 1994, TE-TF, 1994, TG-TH, 1994, TI-TJ, 1994, TK-TL, 1994, TM-TO, 1994, TP-TQ, 1994, TR-TS, 1994, TT-TV, 1994, TW-TX, 1994, TY-TZ, 1994, UA-UB, 1994, UC-UD, 1994, UE-UF, 1994, UG-UH, 1994, UI-UJ, 1994, UK-UL, 1994, UM-UN, 1994, UP-UQ, 1994, UR-US, 1994, UT-UV, 1994, UW-UX, 1994, UY-UZ, 1994, VA-VB, 1994, VC-VD, 1994, VE-VF, 1994, VG-VH, 1994, VI-VJ, 1994, VK-VL, 1994, VM-VO, 1994, VP-VQ, 1994, VR-VS, 1994, VT-VV, 1994, VW-VX, 1994, VY-VZ, 1994, WA-WB, 1994, WC-WD, 1994, WE-WF, 1994, WG-WH, 1994, WI-WJ, 1994, WK-WL, 1994, WM-WO, 1994, WP-WQ, 1994, WR-WS, 1994, WT-WV, 1994, WW-WX, 1994, WY-WZ, 1994, XA-XB, 1994, XC-XD, 1994, XE-XF, 1994, XG-XH, 1994, XI-XJ, 1994, XK-XL, 1994, XM-XO, 1994, XP-XQ, 1994, XR-XS, 1994, XT-XV, 1994, XW-XX, 1994, XY-XZ, 1994, YA-YB, 1994, YC-YD, 1994, YE-YF, 1994, YG-YH, 1994, YI-YJ, 1994, YK-YL, 1994, YM-YO, 1994, YP-YQ, 1994, YR-YS, 1994, YT-YV, 1994, YW-YX, 1994, YY-YZ, 1994, ZA-ZB, 1994, ZC-ZD, 1994, ZE-ZF, 1994, ZG-ZH, 1994, ZI-ZJ, 1994, ZK-ZL, 1994, ZM-ZO, 1994, ZP-ZQ, 1994, ZR-ZS, 1994, ZT-ZV, 1994, ZW-ZX, 1994, ZY-ZZ, 1994



LOCATION INDEX



SURVEY HISTORY

The map has been compiled and drawn under contract between the State of Alaska, Department of Natural Resources, Division of Geological & Geophysical Surveys, and Stevens Exploration Management, Corp. The map was produced by Fugro Airborne Surveys and supersedes the earlier full color version released by DGGS in 1997. Airborne geophysical data for the area were acquired and processed in 1989 under contract between DGGS and WGM, Mining and Geological Consultants, Inc. The subcontractor acquiring and processing the data was DCHM, a division of CGG Canada Ltd. Other products from this survey are available from DGGS, 3354 College Road, Fairbanks, Alaska, 99709-3707.

DESCRIPTIVE NOTES

The geophysical data were acquired with a DCHM[®] Electromagnetic (EM) system, a Sinterrex cesium CS2 magnetometer, and a Healy V4 system installed in an AS350B-1 Squirrel helicopter. In addition, the survey recorded data from a radar altimeter, GPS navigation system, 50/60 Hz monitors and video camera. Flights were performed at a mean terrain clearance of 200 feet along survey flight lines with a spacing of a quarter of a mile. The lines were flown perpendicular to the flight lines at intervals of approximately 3 miles.

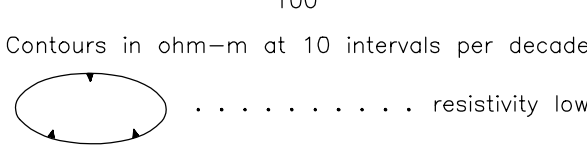
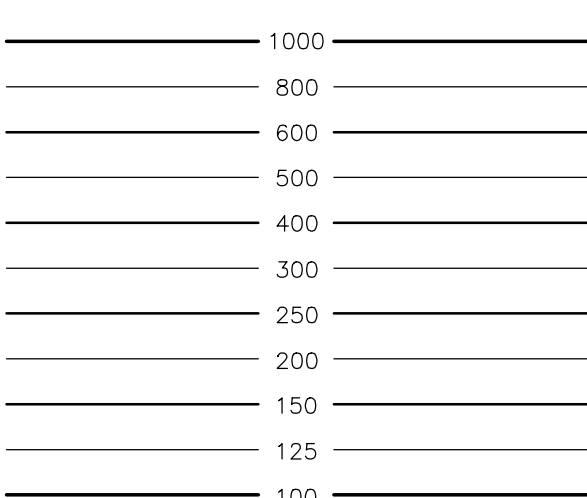
A Sercel Real-Time Differential Global Positioning System (RT-DGPS) was used for both navigation and flight path recovery. The helicopter position was derived every 0.5 seconds using real-time differential positioning to a relative accuracy of better than 10 m. Flight path positions were projected onto the Clark 1886 UTM (UTM) grid, 1927 North American datum using a central meridian (CM) at 147° 0' north constant of 0 and an east constant of 500,000. Positional accuracy of the presented data is better than 10 m with respect to the UTM grid.

RESISTIVITY

The DCHM[®] EM system measured inphase and quadrature components at five frequencies. Two vertical coplanar coil-pairs operated at 900 and 5000 Hz while three horizontal coplanar coil-pairs operated at 900, 7200 and 56,000 Hz. EM data were sampled at 0.1 second intervals. The EM system responds to bedrock conductors, conductive overburden, and cultural sources. Apparent resistivity is generated from the inphase and quadrature component of the coplanar 7200 Hz using the pseudo-layer half space model. The data were interpolated onto a regular 100 m grid using a modified Akima (1970) technique.

Akima, H. (1970), A new method of interpolation and smooth curve fitting based on local procedures, Journal of the Association of Computing Machinery, v. 17, no. 6, p. 589-602.

RESISTIVITY CONTOURS



7200 Hz COPLANAR APPARENT RESISTIVITY OF THE CHULITNA MINING DISTRICT, ALASKA

PARTS OF HEALY, MT. MCKINLEY, TALKEETNA AND TALKEETNA MTS. QUADRANGLES

by
Laurel E. Burns, Fugro Airborne Surveys Corp., and Stevens Exploration Management Corp.
2004