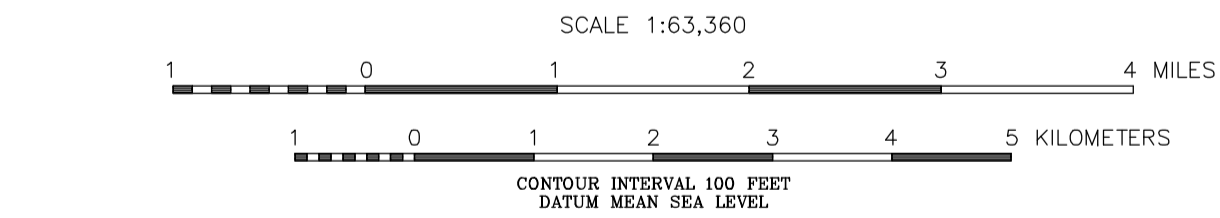
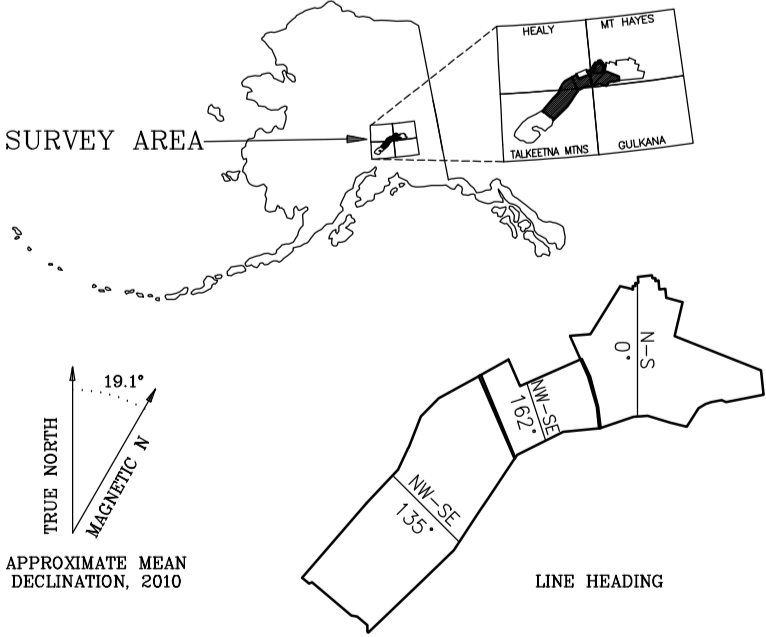


Base from U.S. Geological Survey Topographic Maps C-2, 1963; C-3, 1977; C-4, 1985; D-2, 1968; D-3, 1969; D-4, 1969. Quadrangles, Alaska.



FLIGHT PATH WITH TOPOGRAPHY, WRANGELLIA SURVEY AREA, SOUTH-CENTRAL ALASKA

PARTS OF THE TALKEETNA MTNS, HEALY, AND MT HAYES QUADRANGLES

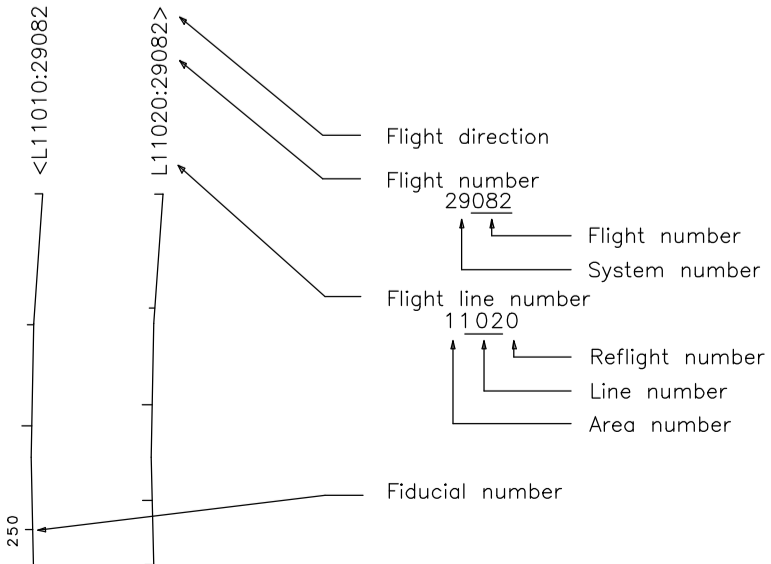
by
Laurel E. Burns, CGG, and Fugro GeoServices, Inc.
2014

DESCRIPTIVE NOTES

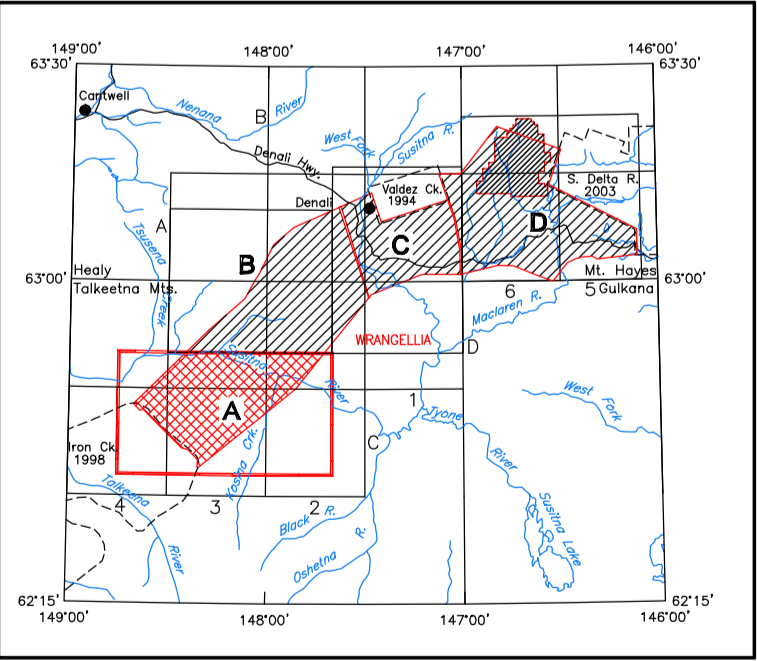
The geophysical data were acquired with a DIGHEM Electromagnetic (EM) system and a Fugro D1344 cesium magnetometer with a Scintrex C53 cesium sensor. The EM and magnetic sensors were flown at a height of 100 feet. In addition the survey recorded data from radar and laser altimeters, GPS navigation system, 50/60 Hz monitors and video camera. Flights were performed with an AS-350-B3 Squirrel helicopter at a mean terrain clearance of 200 feet with a spacing primarily of a quarter of a mile, and one eighth of a mile for about 97.9 sq miles. Tie lines were flown perpendicular to the flight lines at intervals of approximately 3 miles.

A Novatel OEM5-G2L Global Positioning System was used for navigation. The helicopter position was derived every 0.5 seconds using post-flight differential positioning to a relative accuracy of better than 5 m. Flight path positions were projected onto the Clarke 1866 (UTM zone 6) spheroid, 1927 North American datum using a central meridian (CM) of 147° a 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.

FLIGHT LINES



LOCATION INDEX FOR 1:63,360-SCALE MAPS



SURVEY HISTORY

This map has been compiled and drawn under contract between the State of Alaska, Department of Natural Resources, Division of Geological & Geophysical Surveys (DGS), and Fugro GeoServices, Inc. Airborne geophysical data for the area were acquired and processed by CGG in 2013 and 2014. Previously flown DGS surveys adjacent to the current survey are shown in the location map by dashed lines, survey name, and date of publication. The project was funded by the Alaska State Legislature as part of the Alaska Strategic and Critical Minerals Assessment project, which is part of the Alaska Airborne Geophysical and Geological Mineral Inventory Program. Millrock Exploration Corporation contributed infill data for a portion of the area shown above as denser hatching. All data and maps produced to date from this survey are available in digital format on DVD for a nominal fee through DGS, 3354 College Road, Fairbanks, Alaska, 99709-3707, and are downloadable for free from the DGS website (www.dgs.alaska.gov/pub). Maps are also available on paper through the DGS office, and are viewable online at the website in Adobe Acrobat .PDF file format.