



1997

The geophysical data were acquired with a DIGHEM^V Electromagnetic (EM) system, a Sinterex cesium CS2 magnetometer, and a Herz VLF system installed in an AS350B-1 Squirrel helicopter. In addition, the survey recorded data with a Sinterex 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. Tie 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 1866 (UTM) spheroid, 1927 North American datum using a central meridian (CM) of 153°, 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.

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The map shows a portion of Alaska with latitude lines at 54°N, 60°N, and 62°N, and longitude lines at 152°W, 156°W, and 158°W. The Khatanga River is shown flowing from the north towards Fairbanks. Three map sheets are indicated: Sheet 1 (top left), Sheet 2 (top center), and Sheet 3 (top right). A shaded rectangular area is located in Sheet 2, between the Khatanga River and Fairbanks. Labels include 'TANANA', 'LIVENWOOD', 'FAIRBANKS', and 'KATISHNA RIVER'. A scale bar at the bottom indicates distances from 0 to 5 miles.

This map has been compiled and drawn under contract between the State of Alaska, Department of Natural Resources, Division of Geological & Geophysical Surveys and WGM Inc., Mining and Geological Consultants. Airborne geophysical data for the area were acquired by DIGHEM, a division of CGG Canada Ltd., in 1996. Other products from this survey are available from the Alaska Division of Geological & Geophysical Surveys, 794 University Ave., Suite 200, Fairbanks, Alaska, 99709.