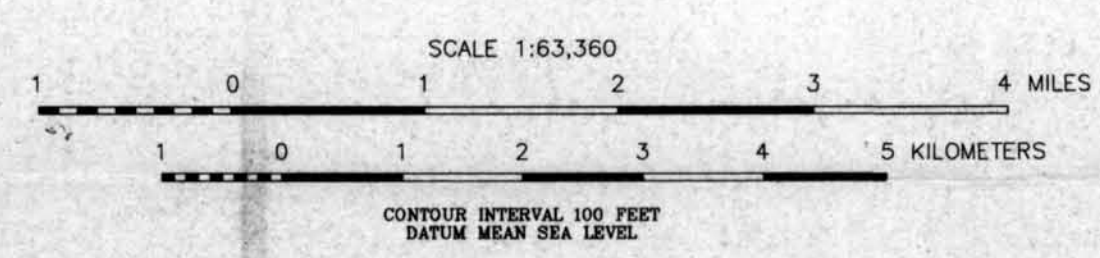
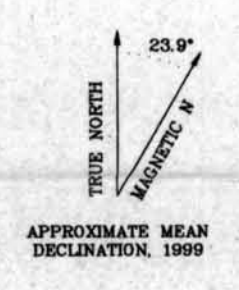


Base from U.S. Geological Survey Ketchikan A-5, 1955; A-6, 1948; B-5, 1955; B-6, 1994; Quadrangles, Alaska

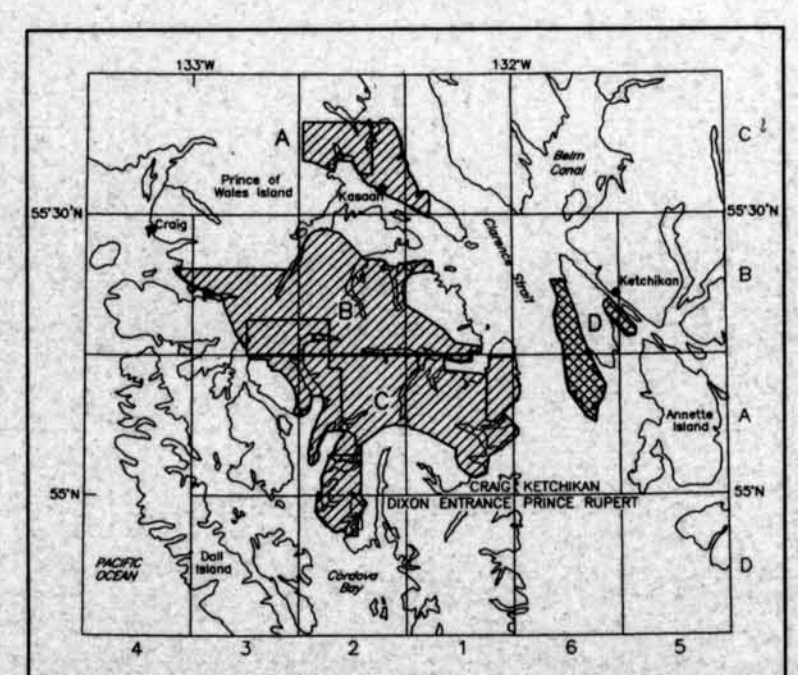


CONTOUR INTERVAL 100 FEET
 DATUM MEAN SEA LEVEL



FLIGHT LINES OF SELECTED AREAS NEAR KETCHIKAN, SOUTHEAST ALASKA

MAP D - WESTERN and EASTERN PARTS, GRAVINA ISLAND
 1999

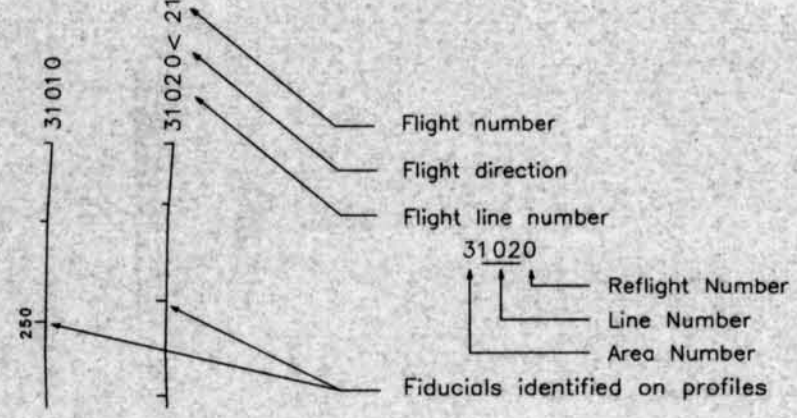


DESCRIPTIVE NOTES

The geophysical data were acquired with a DIGHEM[®] Electromagnetic (EM) system and a Scintrex cesium magnetometer. Both were flown at a height of 100 feet. In addition the survey recorded data from a radar altimeter, GPS navigation system, 50/60 Hz monitors and video camera. Flights were performed with an AS350B-2 Squirrel helicopter at a mean terrain clearance of 200 feet along east-west flight lines one-quarter mile apart. Tie lines were flown perpendicular to the flight lines at intervals of approximately 3 miles.

An Ashtech/Racal Real-Time Differential Global Positioning System (RT-DGPS) was used for both navigation and flight 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 Clarke 1866 (UTM zone 9) spheroid, 1927 North American datum using a central meridian (CM) of 129°, 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



SURVEY HISTORY

This map has been compiled and drawn under contract between the State of Alaska, Department of Natural Resources (DNR), Division of Geological & Geophysical Surveys (DGG), and WGM, Mining & Geological Consultants, Inc. Airborne geophysical data for the area were acquired in 1999 by Geotrex-DigheM, a division of CGG Canada Ltd. Funding for the project was provided by the U.S. Department of the Interior, Bureau of Land Management (BLM), Ketchikan Gateway Borough, Sealaska Corporation, Alaska State Mental Health Trust Land Office, and the cities of Thorne Bay and Coffman Cove. This map and other products from this survey are available by mail order, or in person, from DGG, 794 University Ave., Suite 200, Fairbanks, Alaska, 99709. Some products are also available, in person only, at the BLM's Juneau Minerals Information Center, Mayflower Island, Douglas, AK.