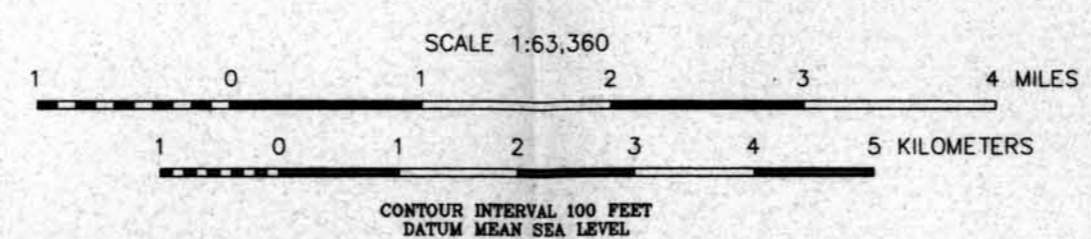


Base from U.S. Geological Survey Crags B-1, 1949; B-2, 1949;
 B-3, 1949; B-4, 1949, Chukchi Bay, Alaska



FLIGHT LINES OF SELECTED AREAS NEAR KETCHIKAN, SOUTHEAST ALASKA

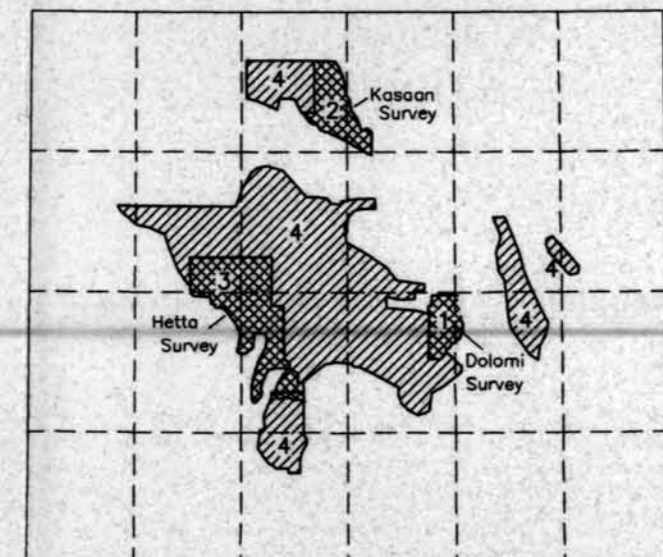
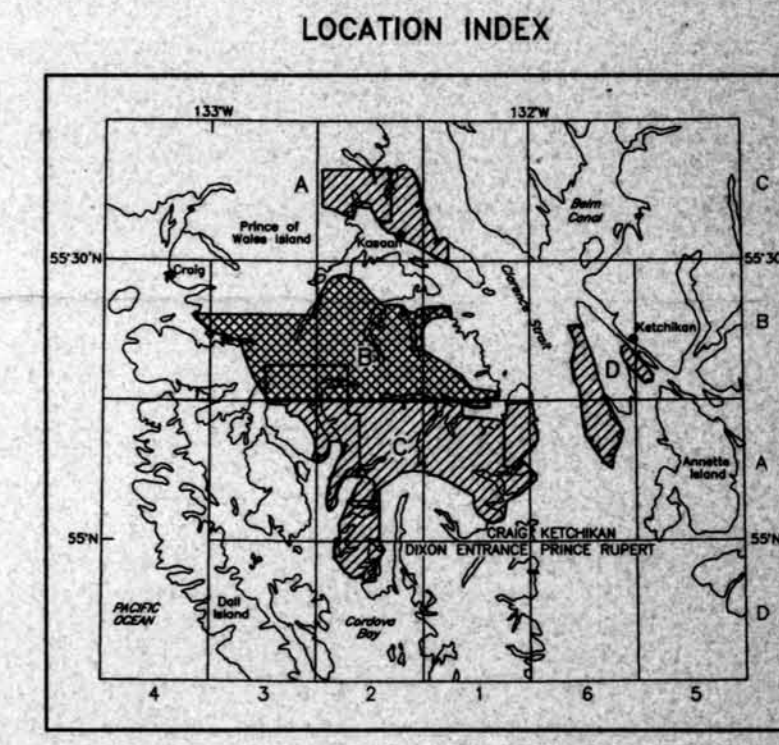
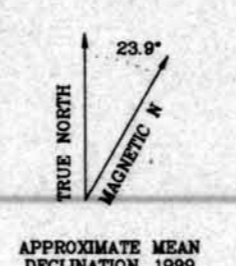
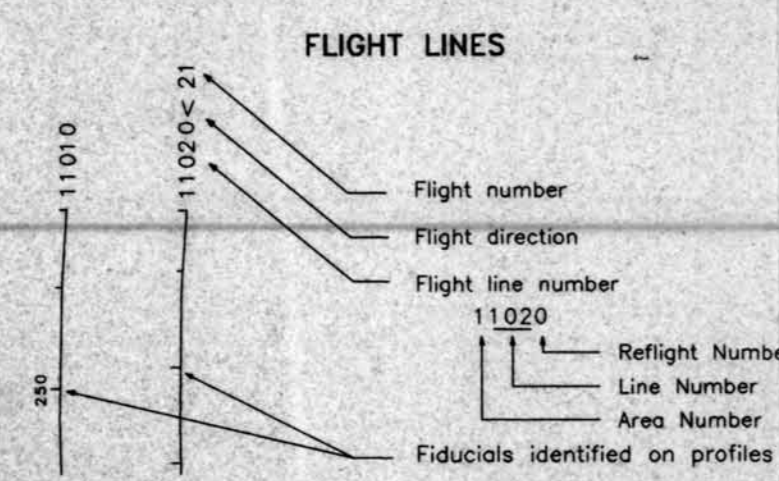
MAP B - SURVEYED AREA IMMEDIATELY NORTH OF 55°15',
 PRINCE OF WALES ISLAND
 1999

DESCRIPTIVE NOTES
 KETCHIKAN SURVEY "Area 4" - March 1999
 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 north-south flight lines one-quarter mile apart. The lines were flown perpendicular to the flight lines at intervals of approximately 3 miles.

An Ashtech/Rocal 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 Clarke 1866 (UTM zone 8) spheroid, 1927 North American datum using a central meridian (CM) of 135°, 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.

HETTA SURVEY "Area 3" - May 1992
 The geophysical data were acquired with a DIGHEM[®] Electromagnetic (EM) system and a Scintrex cesium magnetometer. Mean terrain clearance for the magnetometer and EM system were approximately 213 and 164 feet, respectively. In addition the survey recorded data from a radar altimeter, UHF navigation system, 50/60 Hz monitors, VLF receiver and video camera. The east-west flight lines were flown one-eighth mile apart with the lines flown perpendicular to the flight lines. The survey was flown with an AS350B-1 helicopter.

A Del Norte UHF electronic positioning system was used for navigation. Flight path recovery was done with a combination of UHF data and visual recovery. Positional accuracy of the 1992 data should be considered of low reliability.



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 area 4 were acquired in 1999 by Geotrex-Digheim, 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 Thome Bay and Coffman Cove. The data for areas 1, 2 and 3 were flown by Digheim in 1991 and 1992. These data were provided for publication by Sealaska Corporation.
 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.