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Geophysical Report 2020-5

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KETCHIKAN ELECTROMAGNETIC AND MAGNETIC AIRBORNE GEOPHYSICAL SURVEY DATA COMPILATION

L.E. Burns¹, G.R.C. Graham¹, J.D. Barefoot¹, Geoterrex-Dighem, and WGM Mining and Geological Consultants Inc.

ABSTRACT

The Ketchikan geophysical survey is located in southeast Alaska in the Ketchikan area, about 350 kilometers south of Juneau, Alaska. Frequency domain electromagnetic and magnetic data were collected with the DIGHEM^V system from February to April 1999. A total of 4750.8 line kilometers were collected covering 1648.6 square kilometers. Line spacing was 400 meters (m). Data were collected approximately 30 m above the ground cover or tree canopy from a helicopter-towed sensor platform ("bird") on a 30-m-long line. The large trees and steep terrain resulted in an average ground clearance of 150 m. In the original 1999 release the Ketchikan survey was merged with data from several adjacent surveys (Kasaan, Hetta, and Dolomi). Map sheets and some of the other files in this data release contain data from adjacent or nearby surveys.

PURPOSE

This airborne geophysical survey is part of a program to acquire data on Alaska's most promising mineral belts and districts. The information acquired is aimed at catalyzing new private-sector exploration, discovery, and ultimate development and production. The purpose of the survey was to map the magnetic and conductive properties of the survey area. The survey area includes the Niblack Cu-Zn-Pb-Ag-Au deposit, the Big Harbor Cu-Zn mine, as well as other massive sulfide prospects, such as Trio. Other gold and base-metal anomalies, altered zones, favorable lithologies, and structural zones are known to exist throughout the survey area.

SURVEY OVERVIEW DESCRIPTION

This document provides an overview of the survey and includes text and figures of select primary and derivative products of this survey. A table of digital data packages available for download is provided to assist users in data selection. For reference, a catalog of the available maps is presented in reduced resolution. Please consult the metadata, project report, and digital data packages for more information and data.

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AVAILABLE DATA

Data Type	Provider	Description
ascii_data	contractor	ASCII format line data, other ASCII data
databases_geosoft	contractor	Geosoft format database of final line data, other Geosoft format databases
documents	contractor and DGGS	Project and field reports, survey background information, gridded data explanations, other documentation
grids_ermapper	contractor and DGGS	Geographically registered gridded data, ER Mapper ERS format
grids_geosoft	contractor and DGGS	Geosoft-format grids, these grids can be viewed in ESRI ArcMap using a free plugin from Geosoft or the free viewer available from Geosoft
images_registered	DGGS	GeoTiff format images of all gridded data
kmz	DGGS	keyhole markup language (kml) kmz archive files of project data. Viewable in Google Earth and other compatible programs
maps_pdf_format	contractor and DGGS	Printable maps in pdf format. Includes a geographically registered pdf (GeoPDF) for use with mobile devices such as GPS enabled smartphones and tablets, other devices, and programs
maps_prn_format	contractor	Printable maps in HPGL/2 printer file format with extension .prn
profiles_stacked	contractor	Distance-based profiles of the digitally recorded geophysical data are generated and plotted at an appropriate scale. The profiles display electromagnetic anomalies with their respective interpretive symbols. Printable in pdf format
vector_data	contractor and DGGS	Line path, data contours, and survey boundary in ESRI shapefile (SHP) format, ESRI Geodatabase format, and/or AutoCAD dxf format
video_flightpath	contractor	Survey flight path downward facing video

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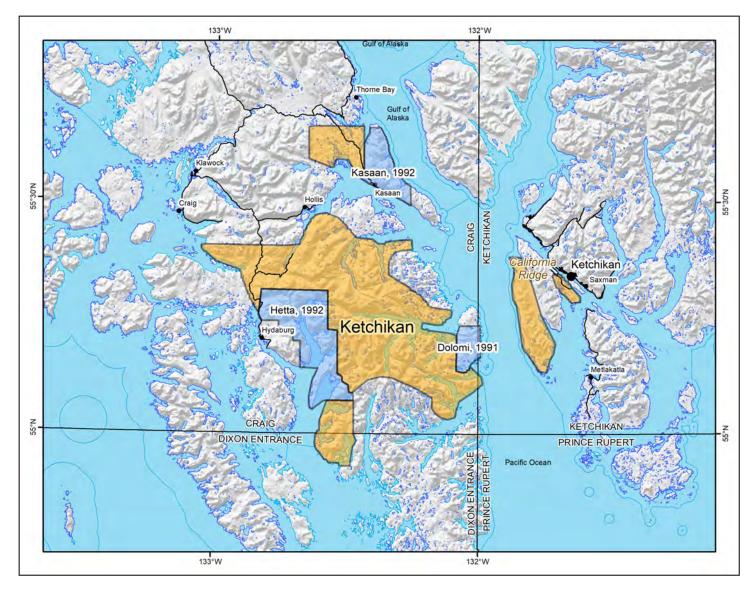


Figure 1. Ketchikan electromagnetic and magnetic airborne geophysical survey location shown in southeast Alaska (inset). Ketchikan survey area shown with adjacent DGGS geophysical surveys, landmarks, relevant 1:250,000-scale quadrangle boundaries, mountain ranges, rivers, glaciers, and elevation hillshade.



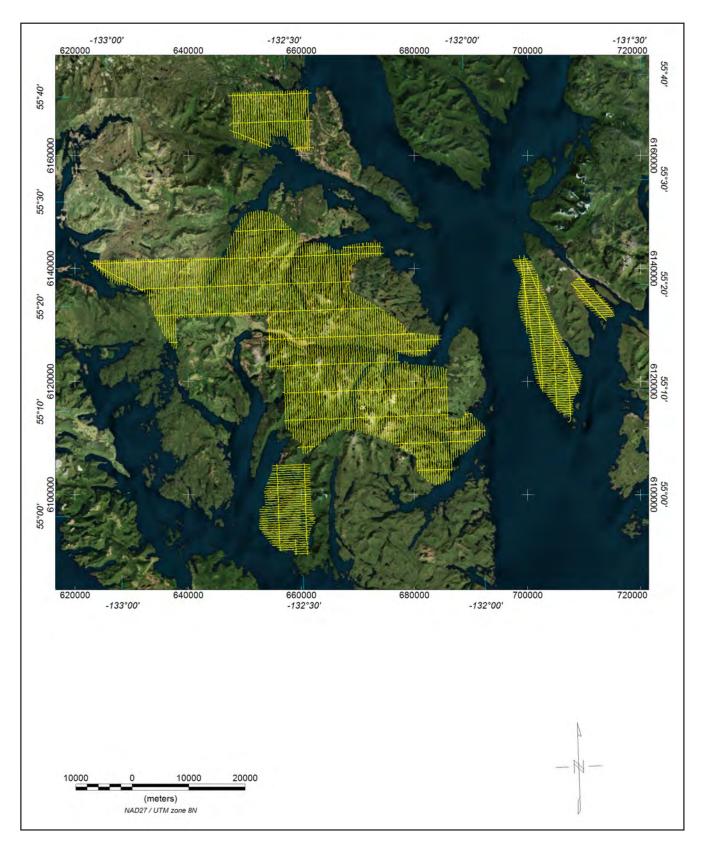


Figure 2. Flight path with orthometric image.

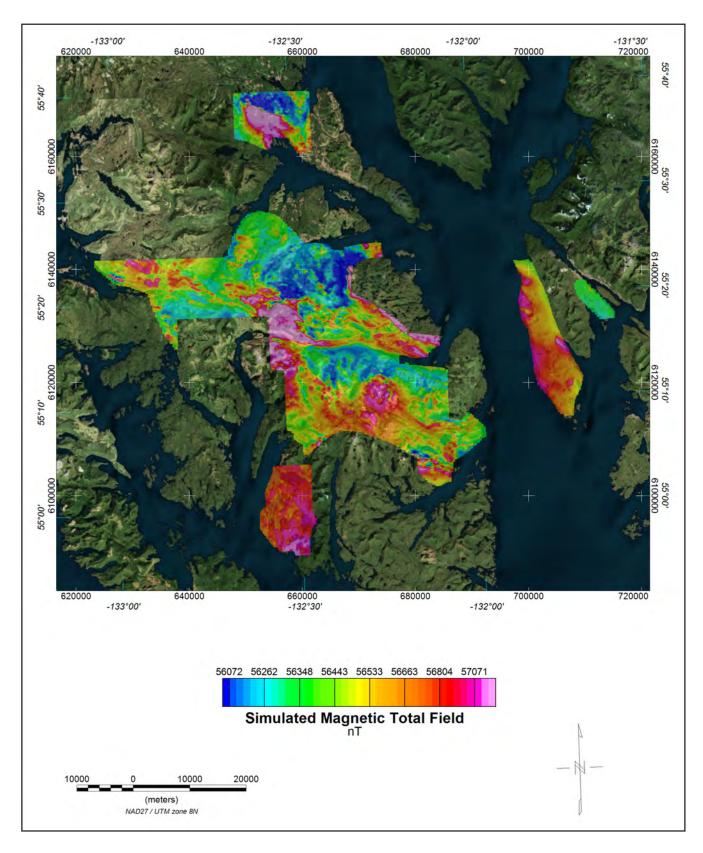


Figure 3. Simulated magnetic total field grid with orthometric image. The magnetic total field data were processed using digitally recorded data from a Scintrex cesium magnetometer. Data were collected at a sampling interval of 0.1 seconds. The magnetic data were (1) corrected for diurnal variations by subtracting the digitally recorded base station magnetic data, (2) IGRF corrected (IGRF model 1995, updated to March 1999), (3) leveled to the tie line data, (4) a constant value of approximately 56,000 nT was added to all data, and (5) interpolated onto a regular 100 m grid using a modified Akima (1970) technique

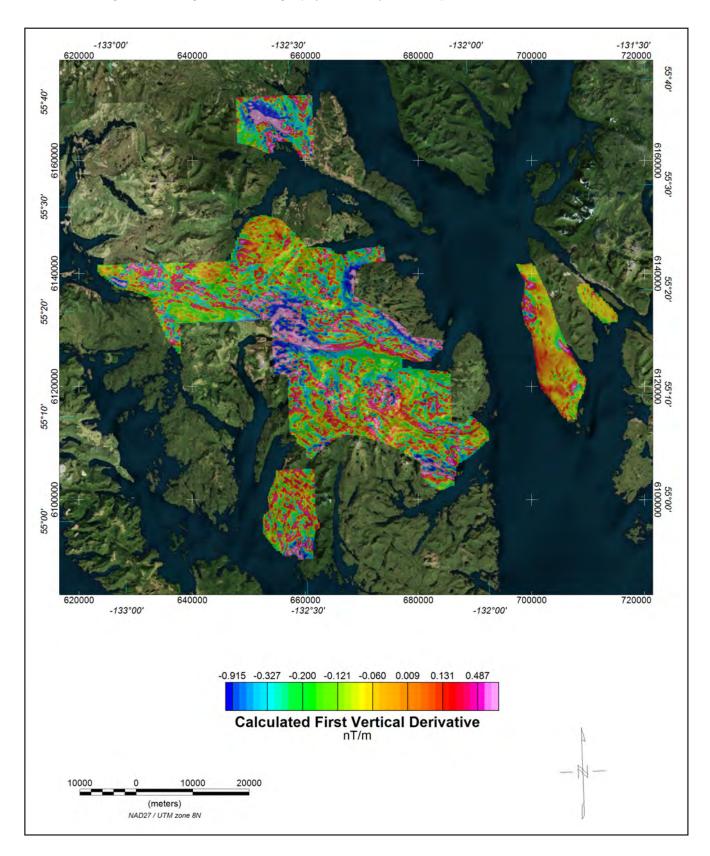


Figure 4. Calculated first vertical derivative grid with orthometric image. The first vertical derivative grid was calculated from the diurnally-corrected, IGRF-corrected total magnetic field grid using a FFT base frequency domain filtering algorithm. The resulting first vertical derivative grid provides better definition and resolution of near- surface magnetic units and helps to identify weak magnetic features that may not be evident on the total field data.

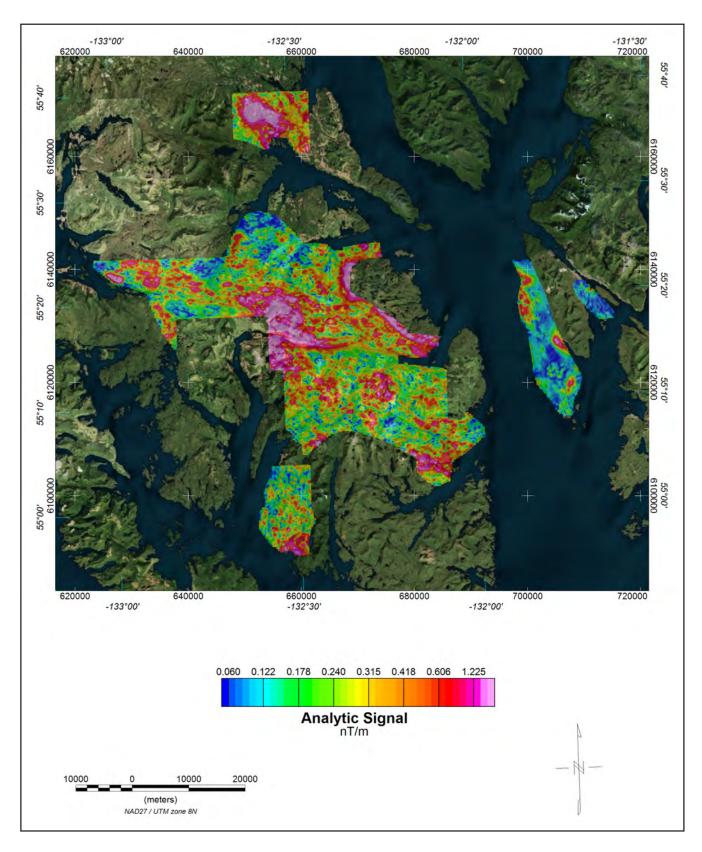


Figure 5. Analytic signal grid with orthometric image. Analytic signal is the total amplitude of all directions of magnetic gradient calculated from the sum of the squares of the three orthogonal gradients. Mapped highs in the calculated analytic signal of magnetic parameter locate the anomalous source body edges and corners (such as contacts, fault/ shear zones, etc.). Analytic signal maxima are located directly over faults and contacts, regardless of structural dip, and independent of the direction of the induced and/or remanent magnetizations.

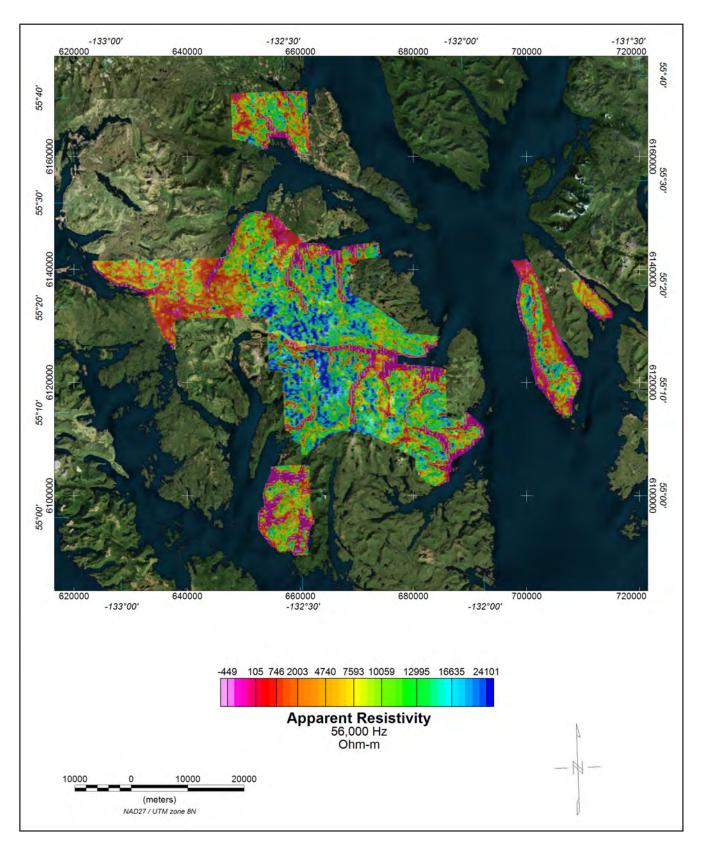


Figure 6. 56,000 Hz coplanar apparent resistivity grid with orthometric image. The DIGHEM EM system measured inphase and quadrature components at five frequencies. Two vertical coaxial coil-pairs operated at 900 and 5500 Hz while three horizontal coplanar coil-pairs operated at 900, 7,200, and 56,000 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 56,000 Hz using the pseudo-layer half space model. The data were interpolated onto a regular 100 m grid using a modified Akima (1970) technique.

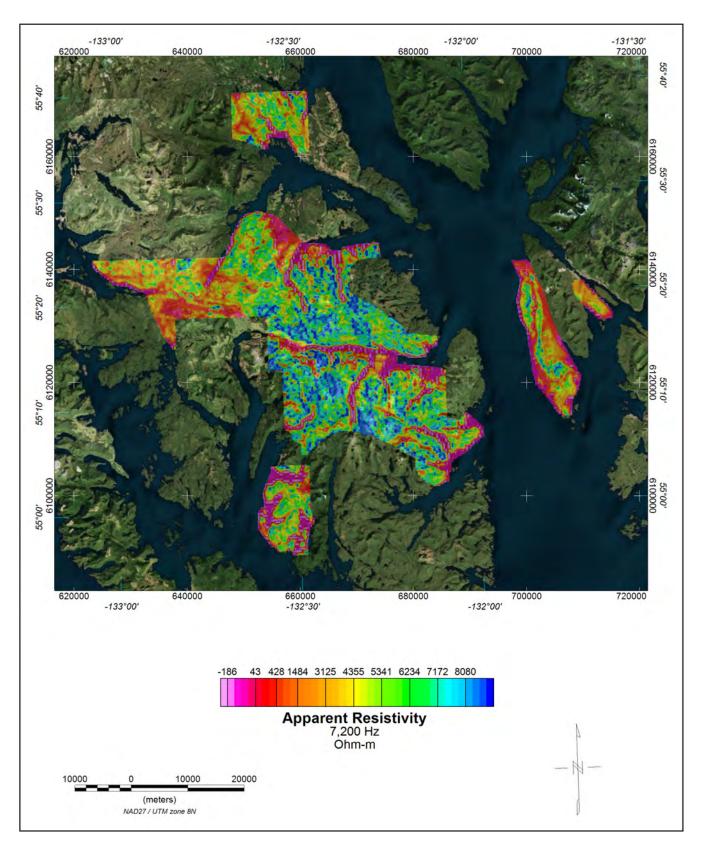


Figure 7. 7,200 Hz coplanar apparent resistivity grid with orthometric image. The DIGHEM^v EM system measured inphase and quadrature components at five frequencies. Two vertical coaxial coil-pairs operated at 900 and 5500 Hz while three horizontal coplanar coil-pairs operated at 900, 7,200, and 56,000 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 7,200 Hz using the pseudo-layer half space model. The data were interpolated onto a regular 100 m grid using a modified Akima (1970) technique.

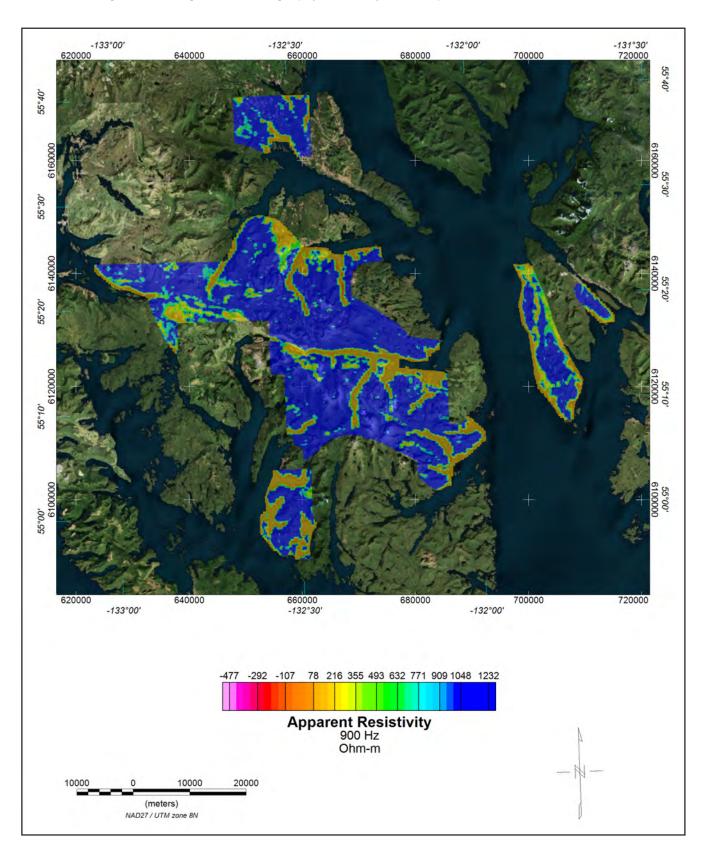


Figure 7. 900 Hz coplanar apparent resistivity grid with orthometric image. The DIGHEM^v EM system measured inphase and quadrature components at five frequencies. Two vertical coaxial coil-pairs operated at 900 and 5500 Hz while three horizontal coplanar coil-pairs operated at 900, 7,200, and 56,000 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 900 Hz using the pseudo-layer half space model. The data were interpolated onto a regular 100 m grid using a modified Akima (1970) technique.

Table 1. Copies of the following maps are included at the end of this booklet. The low-resolution, page-size maps included in this booklet are intended to be used as a search tool and are not the final product. Large-scale, full-resolution versions of each map are available to download on this publication's citation page: http://doi.org/10.14509/30430

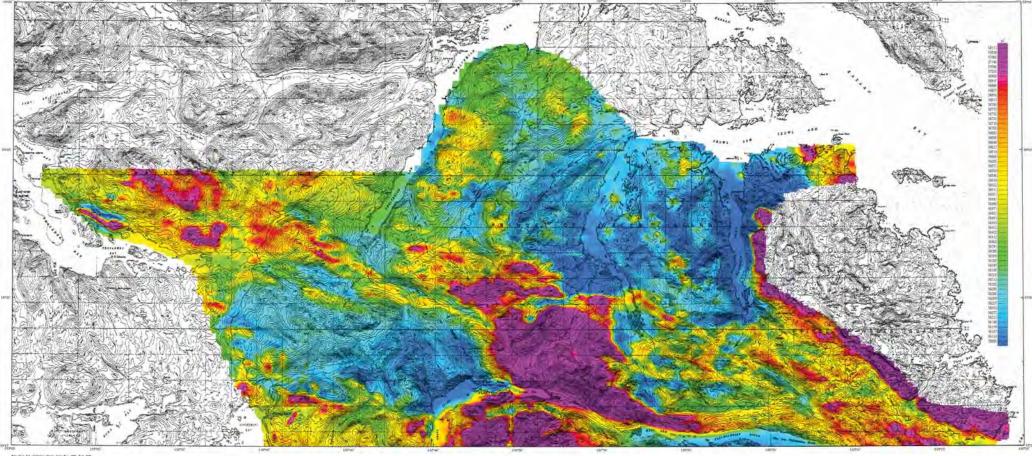
Map Title	Description
ketchikan_sim_magtf_topo_map_1of4.pdf	simulated magnetic total field grid with topographic base map
ketchikan_sim_magtf_topo_map_2of4.pdf	simulated magnetic total field grid with topographic base map
ketchikan_sim_magtf_topo_map_3of4.pdf	simulated magnetic total field grid with topographic base map
ketchikan_sim_magtf_topo_map_4of4.pdf	simulated magnetic total field grid with topographic base map
ketchikan_res56khz_topo_map_1of4.pdf	56,000 Hz apparent resistivity grid with topographic base map
ketchikan_res56khz_topo_map_2of4.pdf	56,000 Hz apparent resistivity grid with topographic base map
ketchikan_res56khz_topo_map_3of4.pdf	56,000 Hz apparent resistivity grid with topographic base map
ketchikan_res56khz_topo_map_4of4.pdf	56,000 Hz apparent resistivity grid with topographic base map
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ketchikan_emanomalies_sim_magtf_contours_map_2of4.pdf	electromagnetic anomaly map with simulated magnetic total field grid contours
ketchikan_emanomalies_sim_magtf_contours_map_3of4.pdf	electromagnetic anomaly map with simulated magnetic total field grid contours
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ketchikan_res7200hz_bw_contours_plss_map_4of4.pdf	black and white 7,200 Hz apparent resistivity data contours with public land survey system base layer
ketchikan_sim_magtf_contours_plss_map_1of4.pdf	simulated magnetic total field grid and contours with public land survey system base layer
ketchikan_sim_magtf_contours_plss_map_2of4.pdf	simulated magnetic total field grid and contours with public land survey system base layer

Table 1, continued. Copies of the following maps are included at the end of this booklet. The low-resolution, page-size maps included in this booklet are intended to be used as a search tool and are not the final product. Large-scale, full-resolution versions of each map are available to download on this publication's citation page: http://doi.org/10.14509/30430

Map Title	Description
ketchikan_sim_magtf_contours_plss_map_3of4.pdf	simulated magnetic total field grid and contours with public land survey system base layer
ketchikan_sim_magtf_contours_plss_map_4of4.pdf	simulated magnetic total field grid and contours with public land survey system base layer
ketchikan_sim_magtf_shaded_plss_map_1of4.pdf	shaded simulated magnetic total field grid with public land survey system base layer
ketchikan_sim_magtf_shaded_plss_map_2of4.pdf	shaded simulated magnetic total field grid with public land survey system base layer
ketchikan_sim_magtf_shaded_plss_map_3of4.pdf	shaded simulated magnetic total field grid with public land survey system base layer
ketchikan_sim_magtf_shaded_plss_map_4of4.pdf	shaded simulated magnetic total field grid with public land survey system base layer
ketchikan_res56khz_contours_plss_map_1of4.pdf	56,000 Hz apparent resistivity grid with contours and public land survey system base layer
ketchikan_res56khz_contours_plss_map_2of4.pdf	56,000 Hz apparent resistivity grid with contours and public land survey system base layer
ketchikan_res56khz_contours_plss_map_3of4.pdf	56,000 Hz apparent resistivity grid with contours and public land survey system base layer
ketchikan_res56khz_contours_plss_map_4of4.pdf	56,000 Hz apparent resistivity grid with contours and public land survey system base layer
ketchikan_res7200hz_contours_plss_map_1of4.pdf	7,200 Hz apparent resistivity grid with contours and public land survey system base layer
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ketchikan_interpretation_plss_map_1of4.pdf	interpretation based on geophysical data with public land survey system base layer
ketchikan_interpretation_plss_map_2of4.pdf	interpretation based on geophysical data with public land survey system base layer
ketchikan_interpretation_plss_map_3of4.pdf	interpretation based on geophysical data with public land survey system base layer
ketchikan_interpretation_plss_map_4of4.pdf	interpretation based on geophysical data with public land survey system base layer

ALASKA DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS IN COOPERATION WITH BUREAU OF LAND MANAGEMENT, KETCHIKAN GATEWAY BOROUGH, AND SEALASKA CORPORATION GEOPHYSICAL REPORT 1999-1A Map A - Salt Chuck and Kasaan Peninsula, Prince of Wales Island LOCATION INDEX CONTROL MENTENIAL GOO FERST DATES WELL MEN GETTE. TOTAL FIELD MAGNETICS DESCRIPTIVE HOTES OF SELECTED AREAS NEAR KETCHIKAN, SOUTHEAST ALASKA MAP A - SALT CHUCK AND KASAAN PENINSULA, PRINCE OF WALES ISLAND TOTAL FIELD MAGNETICS

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







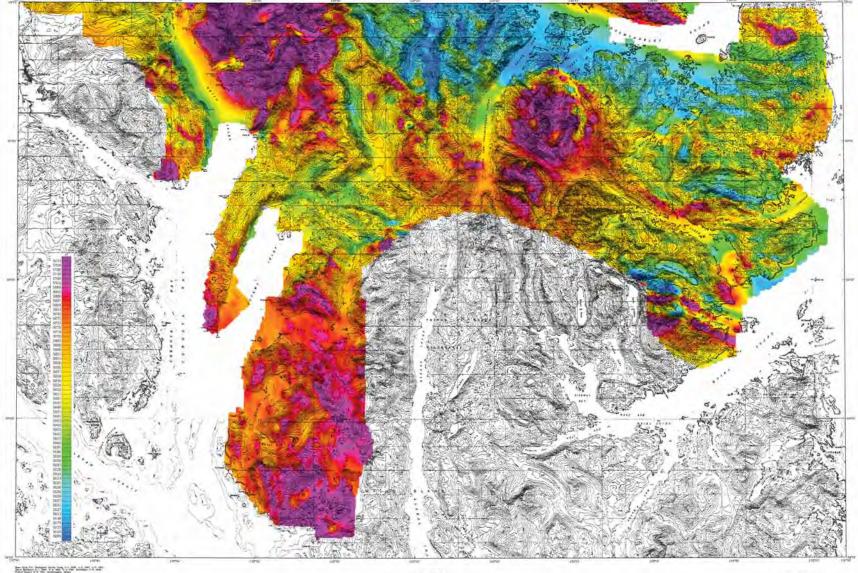
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MAP C - SURVEYED AREA SOUTH OF 55'15', PRINCE OF WALES ISLAND





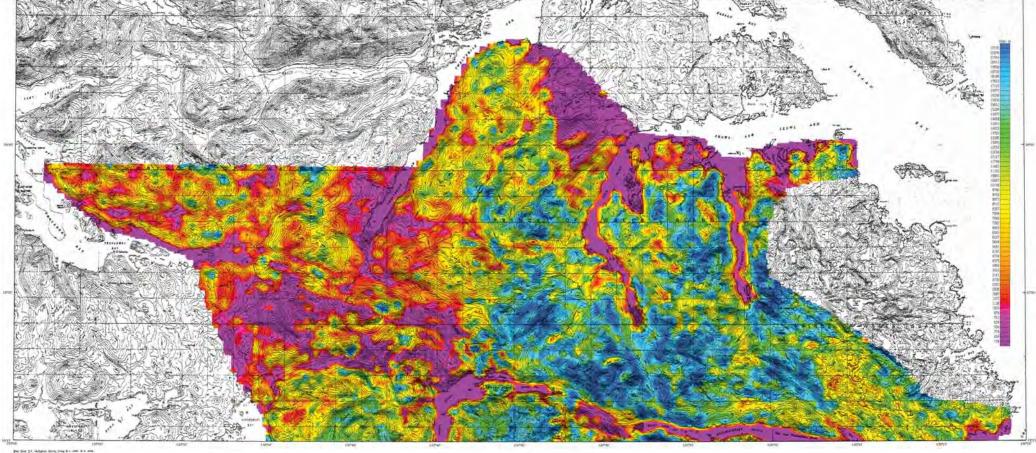




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GEOPHYSICAL REPORT 1999-2B Map B - Surveyed Area Immediately North of 55°15', Prince of Wales Island



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MAP B - SURVEYED AREA IMMEDIATELY NORTH OF 55"15", PRINCE OF WALES ISLAND







ALASKA DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS IN COOPERATION WITH BUREAU OF LAND MANAGEMENT, KETCHIKAN GATEWAY BOROUGH, AND SEALASKA CORPORATION GEOPHYSICAL REPORT 1999-2D Map D - Western and Eastern Parts, Gravina Island Tired server no rest 56,000 Hz COPLANAR RESISTIVITY OF SELECTED AREAS NEAR KETCHIKAN, SOUTHEAST ALASKA MAP D - WESTERN and EASTERN PARTS, GRAVINA ISLAND Almo, III (\$70), It has thefted of timesocities and provide core fitting poster on local procedurars fournal of the Asposition of Computing Machinery, y. 17, no. 4, p. 569-500.

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7200 Hz COPLANAR RESISTIVITY OF SELECTED AREAS NEAR KETCHIKAN, SOUTHEAST ALASKA

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





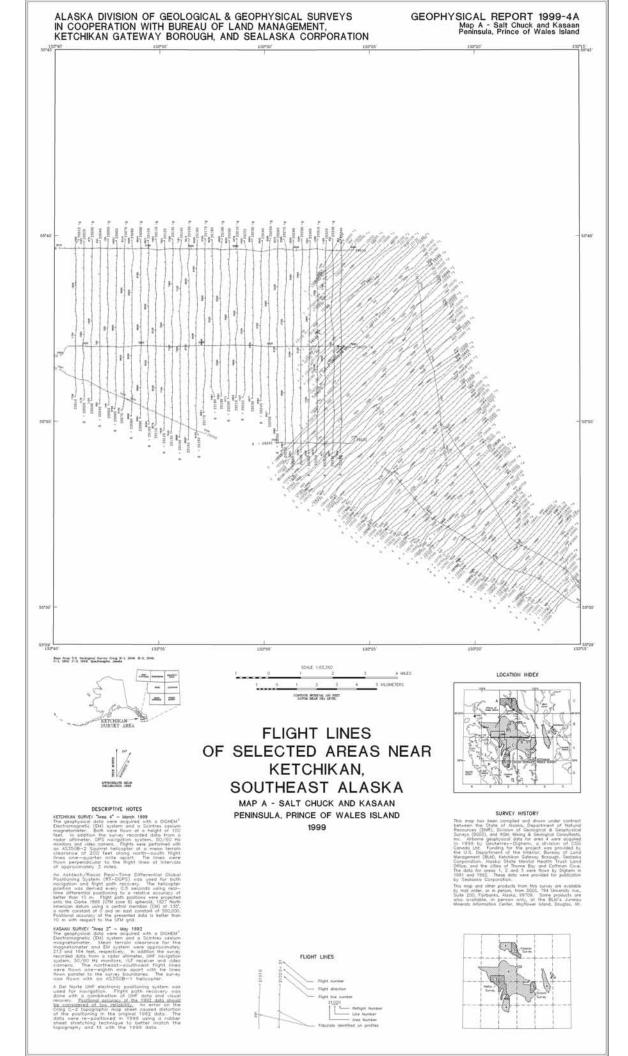


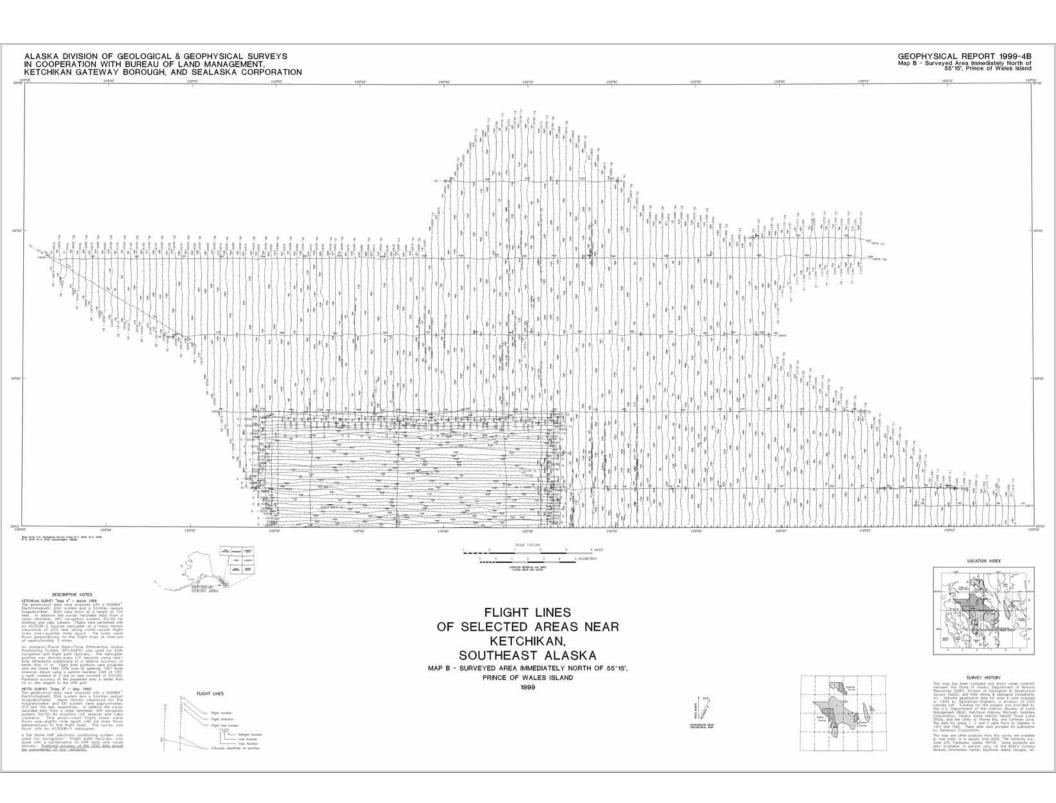
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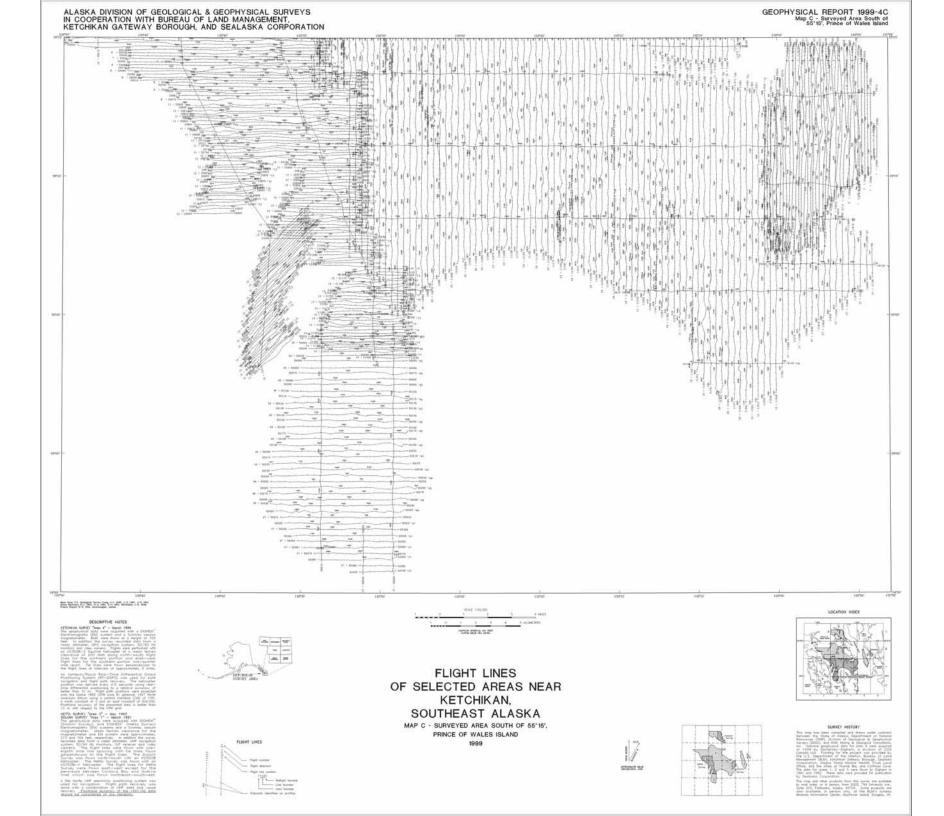
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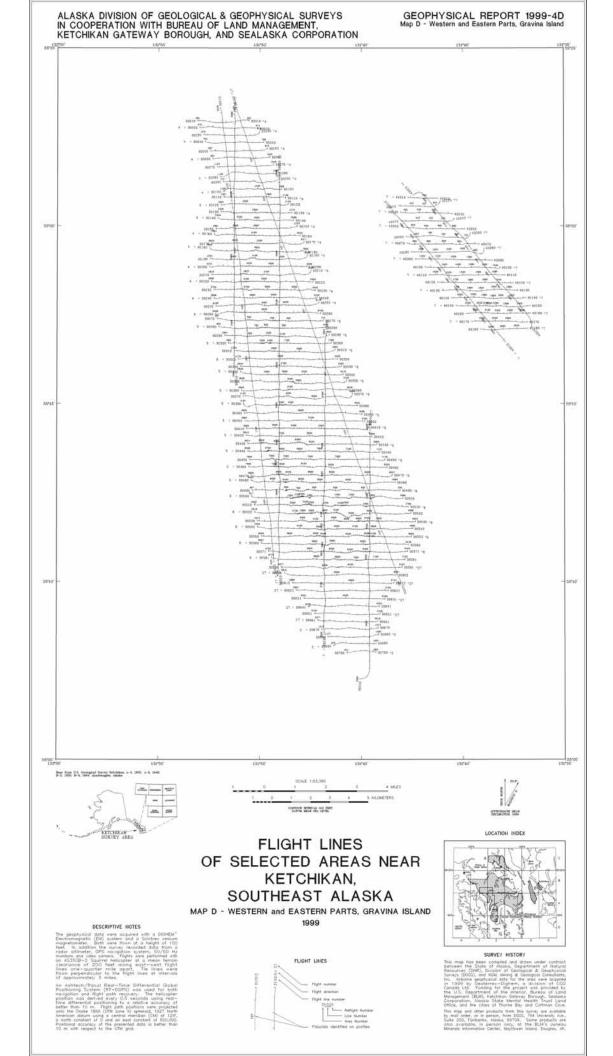
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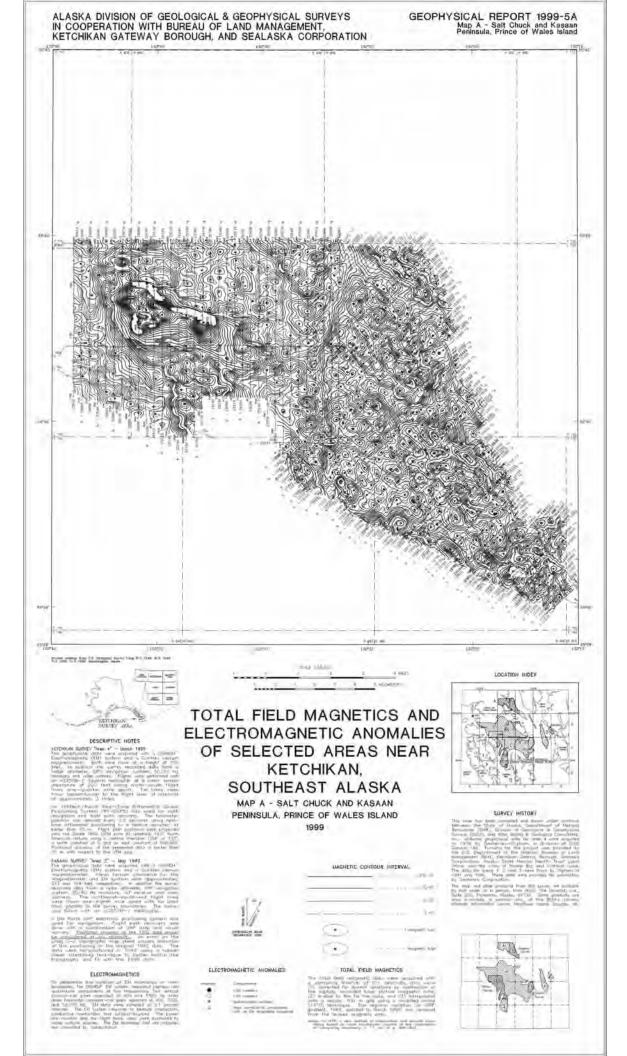
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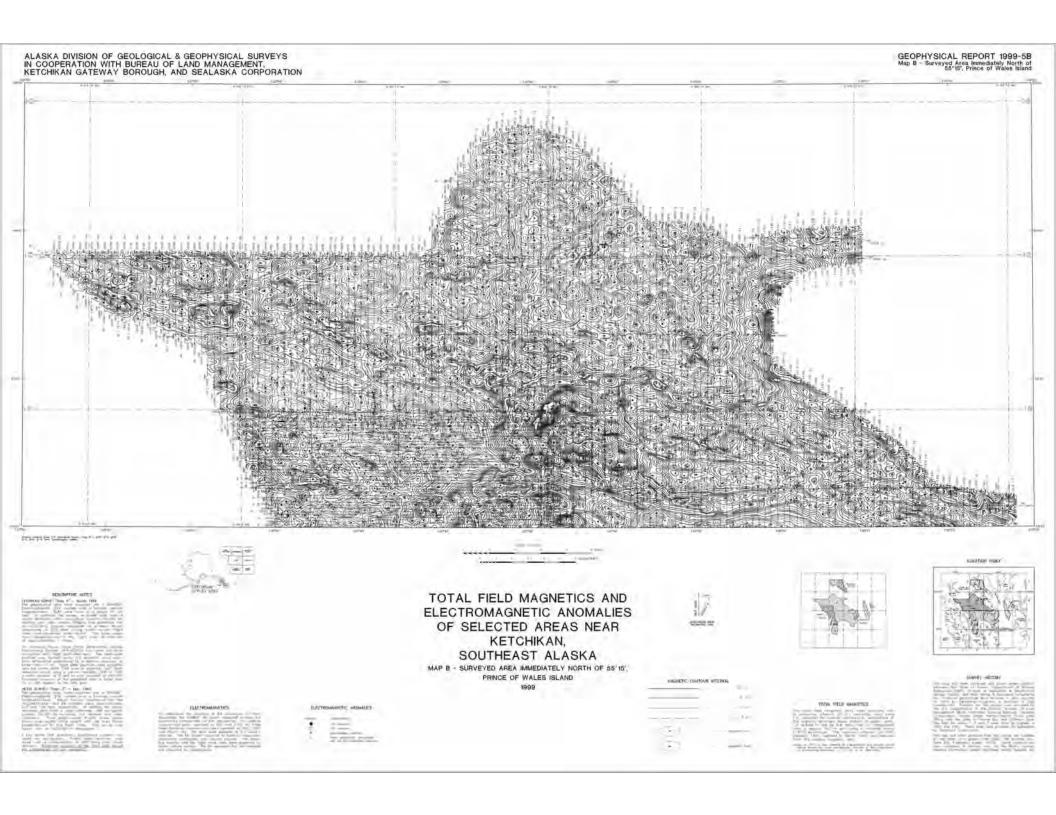


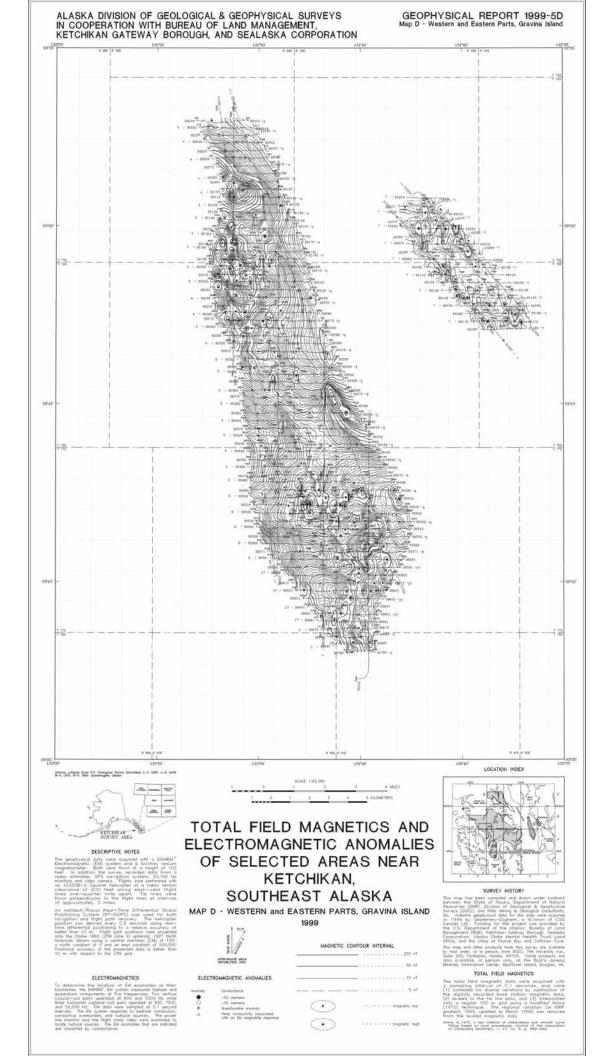


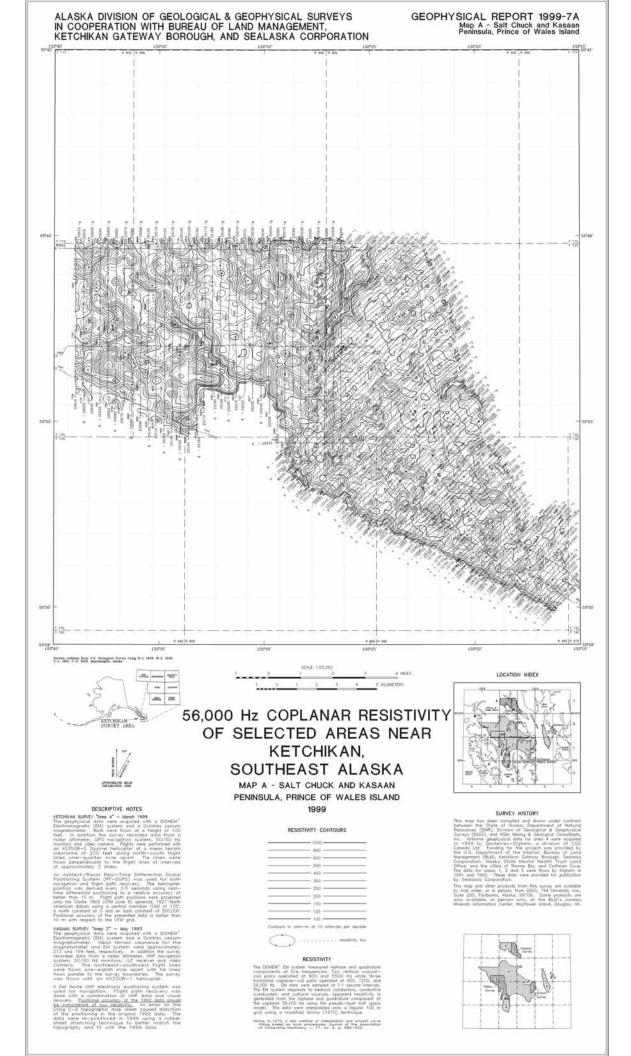


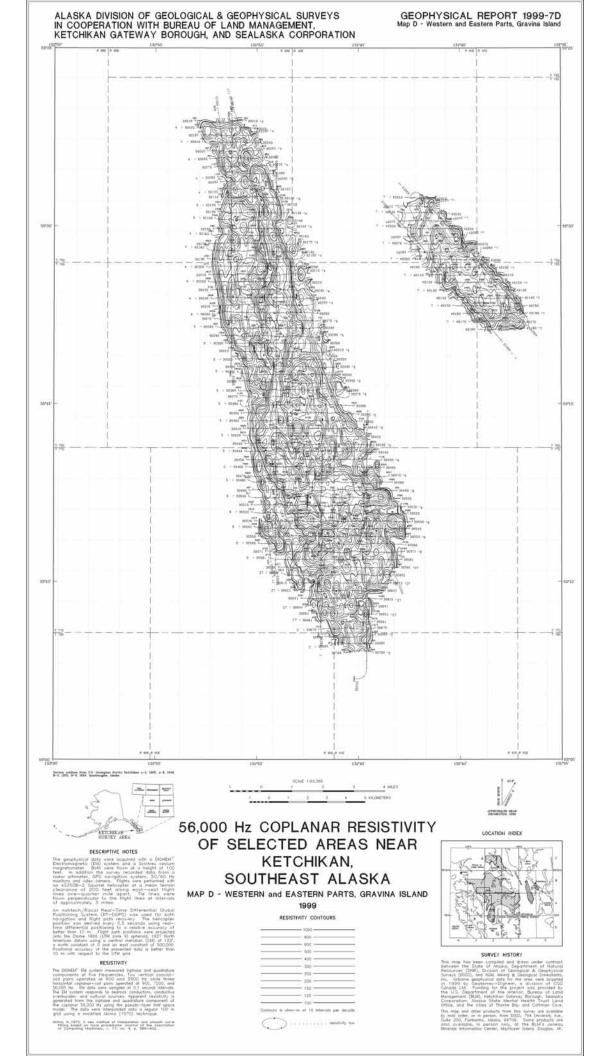


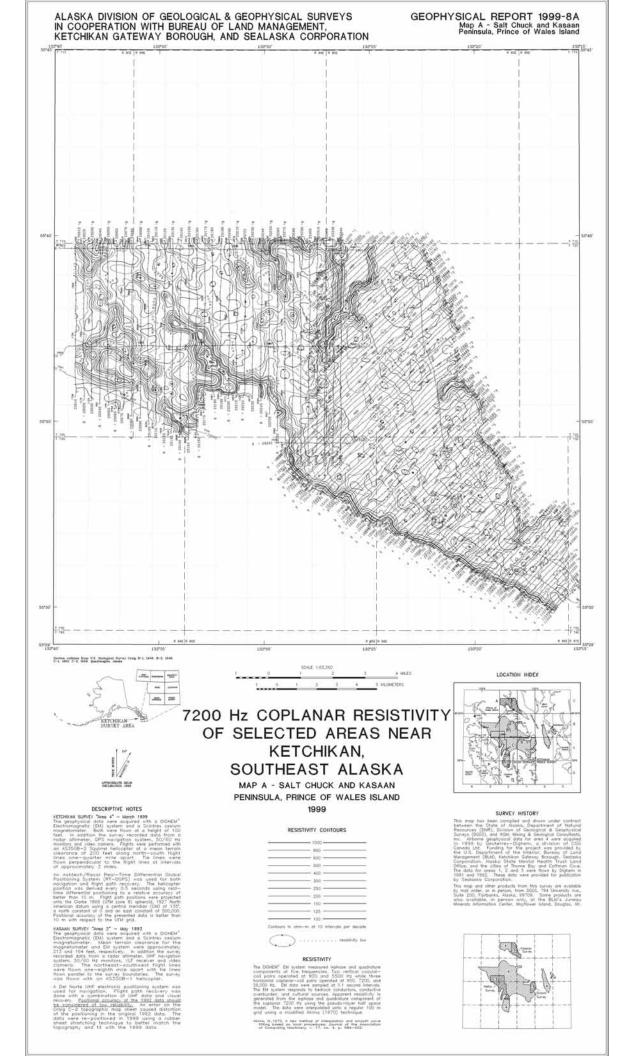














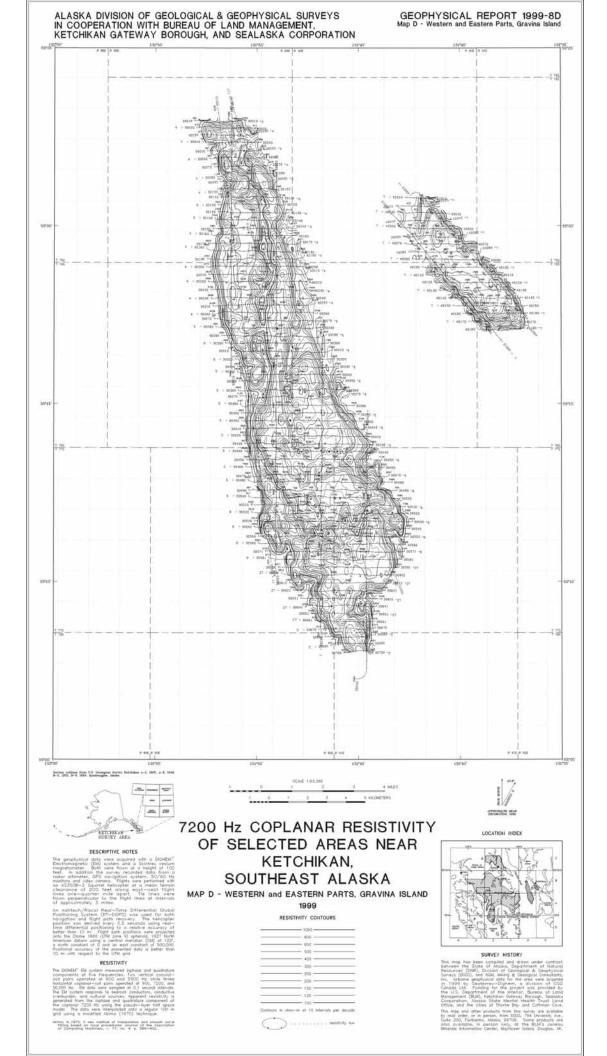
7200 Hz COPLANAR RESISTIVITY OF SELECTED AREAS NEAR KETCHIKAN, SOUTHEAST ALASKA

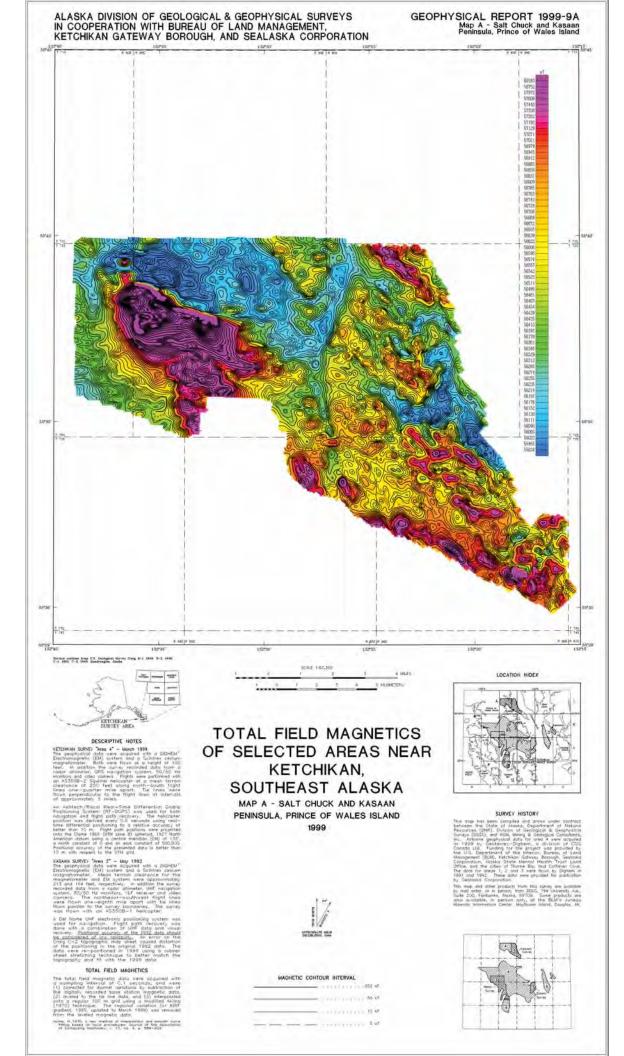
MAP B - SURVEYED AREA IMMEDIATELY NORTH OF 55"15", PRINCE OF WALES ISLAND

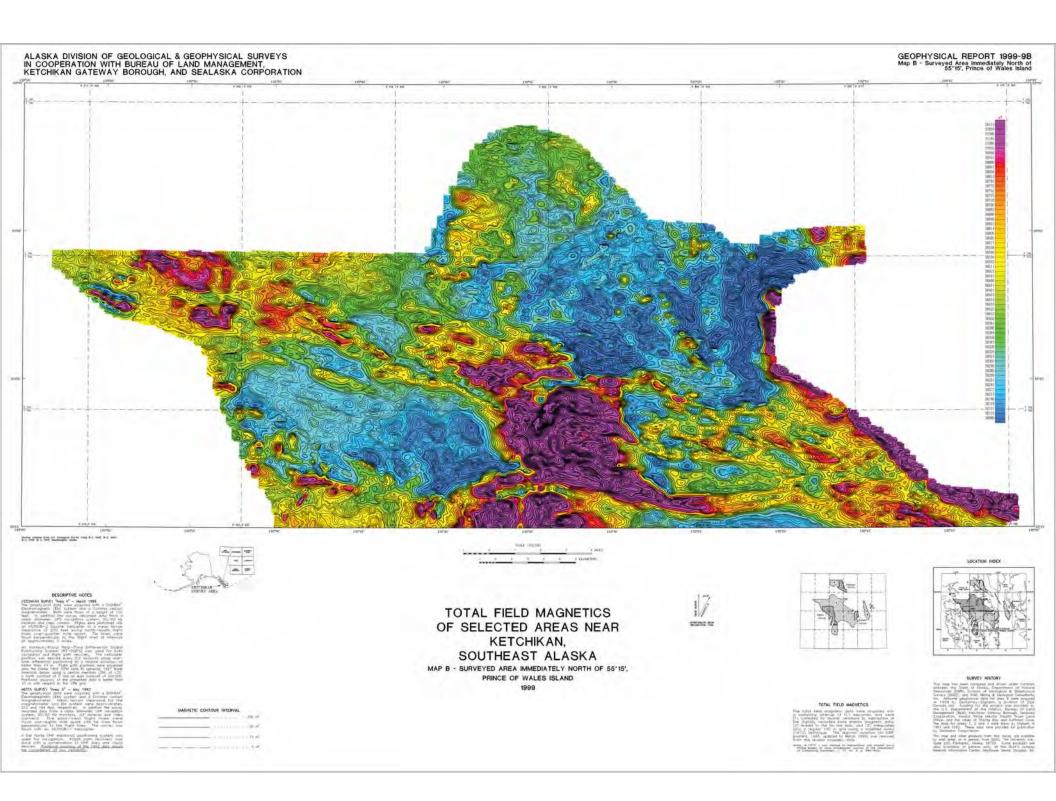


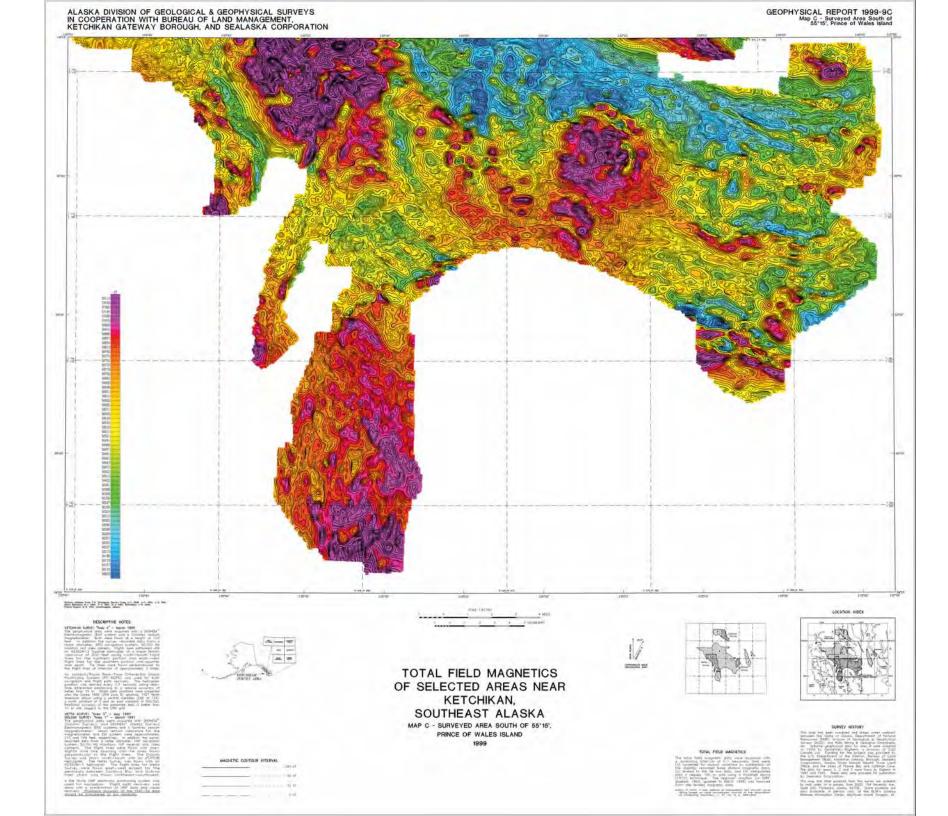


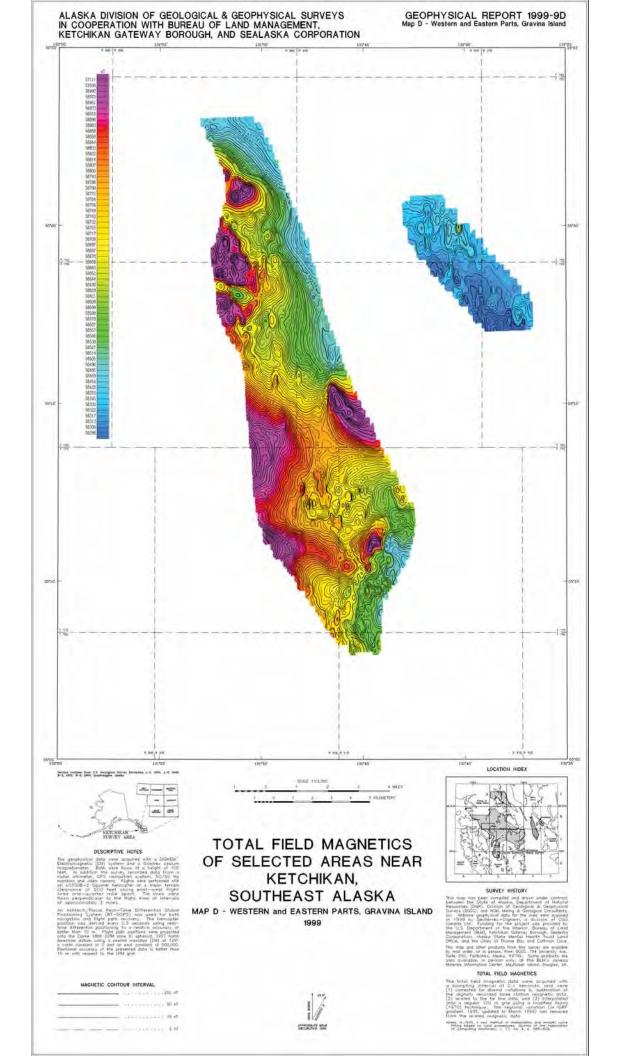






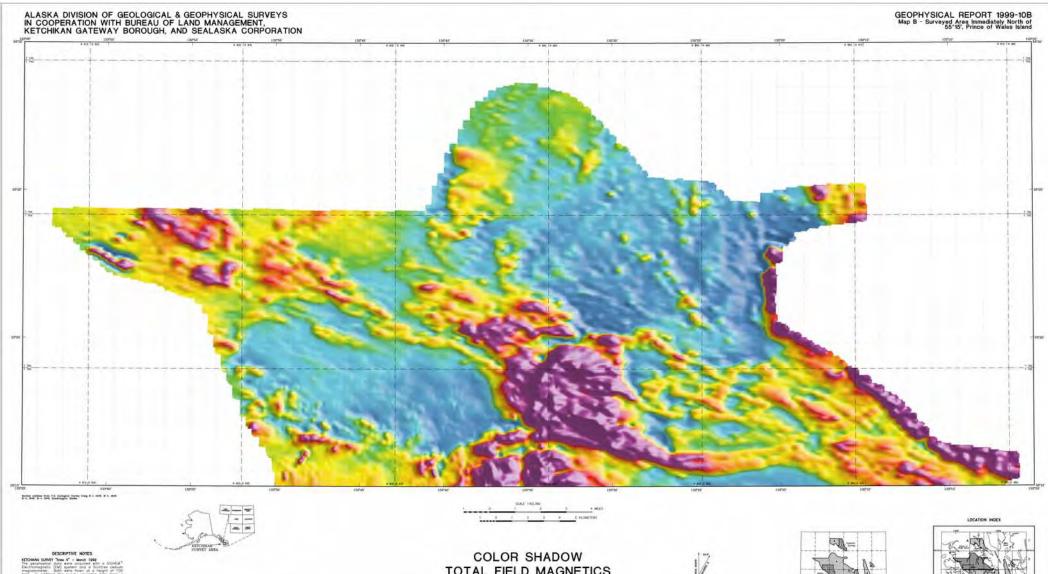






ALASKA DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS IN COOPERATION WITH BUREAU OF LAND MANAGEMENT, KETCHIKAN GATEWAY BOROUGH, AND SEALASKA CORPORATION GEOPHYSICAL REPORT 1999-10A Map A - Salt Chuck and Kasaan Peninsula, Prince of Wales Island Seriou pullium from U.S. Saningrad Sorre LOCATION INDEX COLOR SHADOW TOTAL FIELD MAGNETICS DESCRIPTIVE NOTES OF SELECTED AREAS NEAR KETCHIKAN, SOUTHEAST ALASKA MAP A - SALT CHUCK AND KASAAN PENINSULA, PRINCE OF WALES ISLAND Sun Azimuth 65 degrees Inclination 30 degrees TOTAL FIELD MAGNETICS

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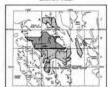
TOTAL FIELD MAGNETICS OF SELECTED AREAS NEAR KETCHIKAN, SOUTHEAST ALASKA

MAP B - SURVEYED AREA IMMEDIATELY NORTH OF 55"15", PRINCE OF WALES ISLAND

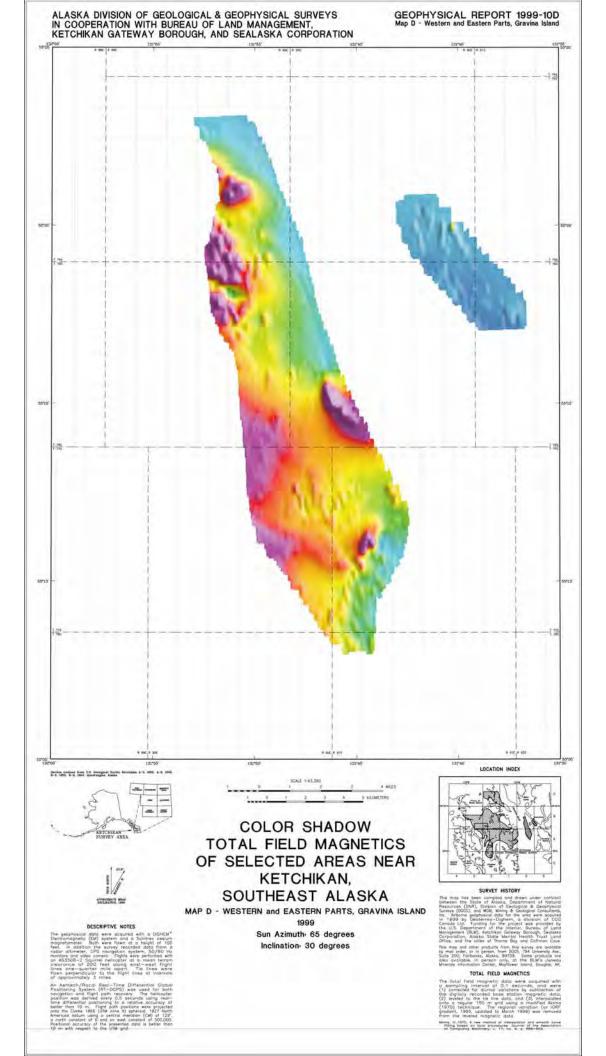
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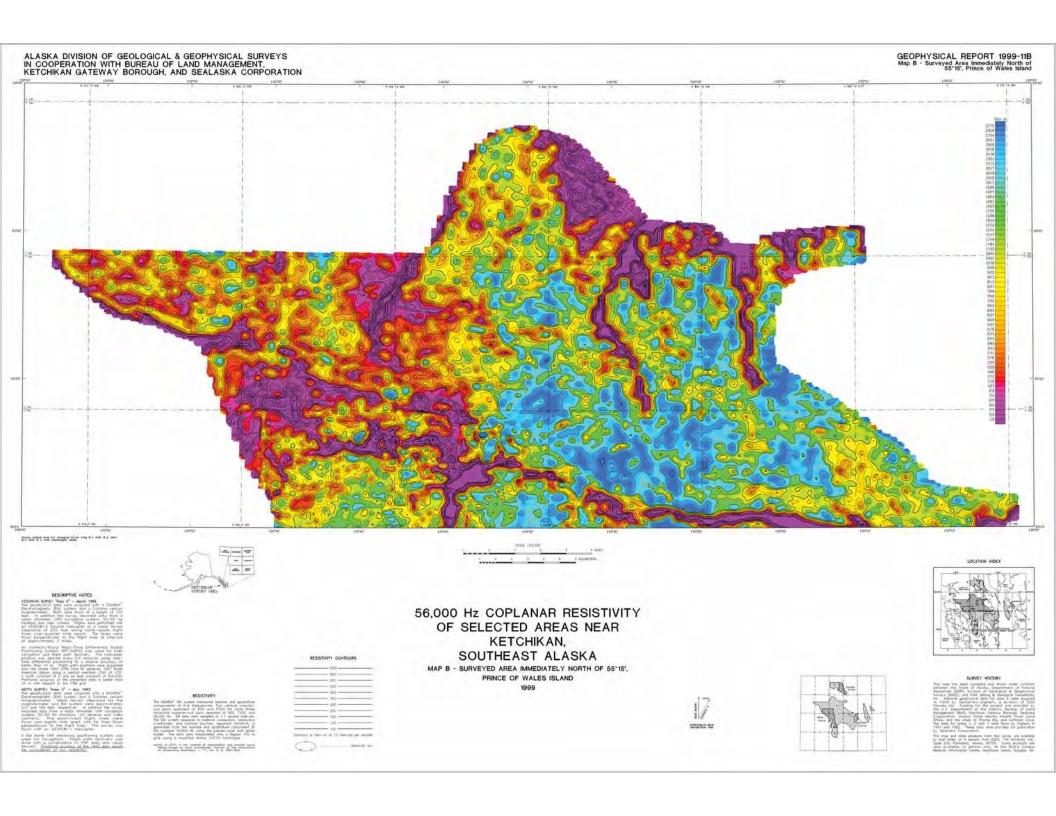


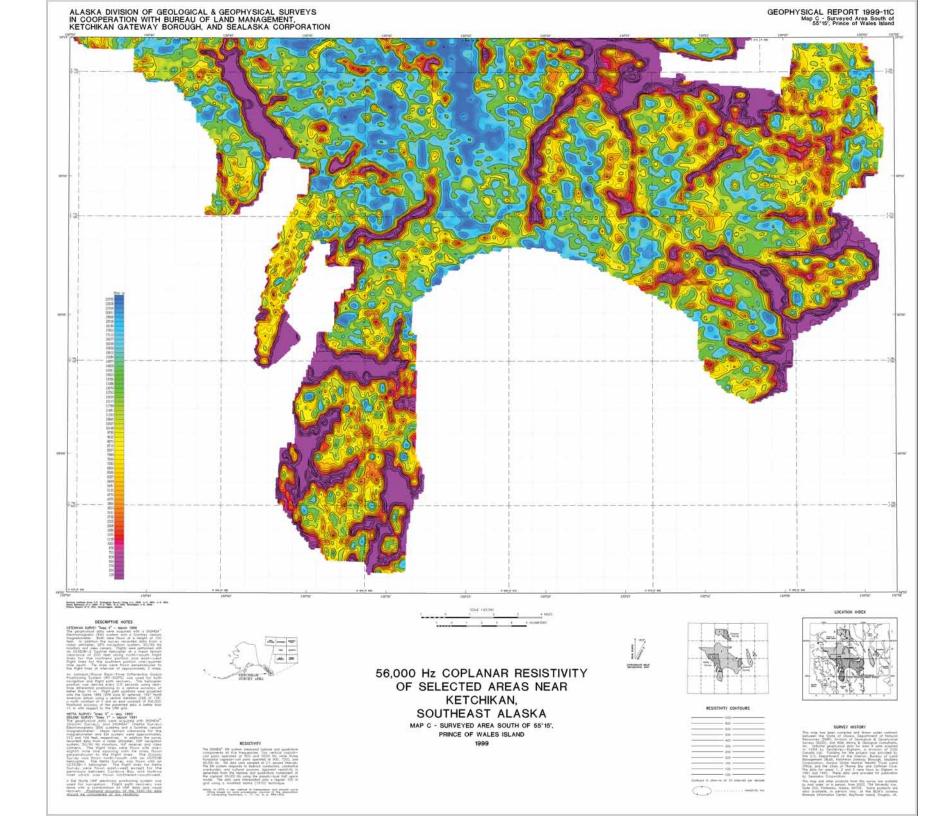


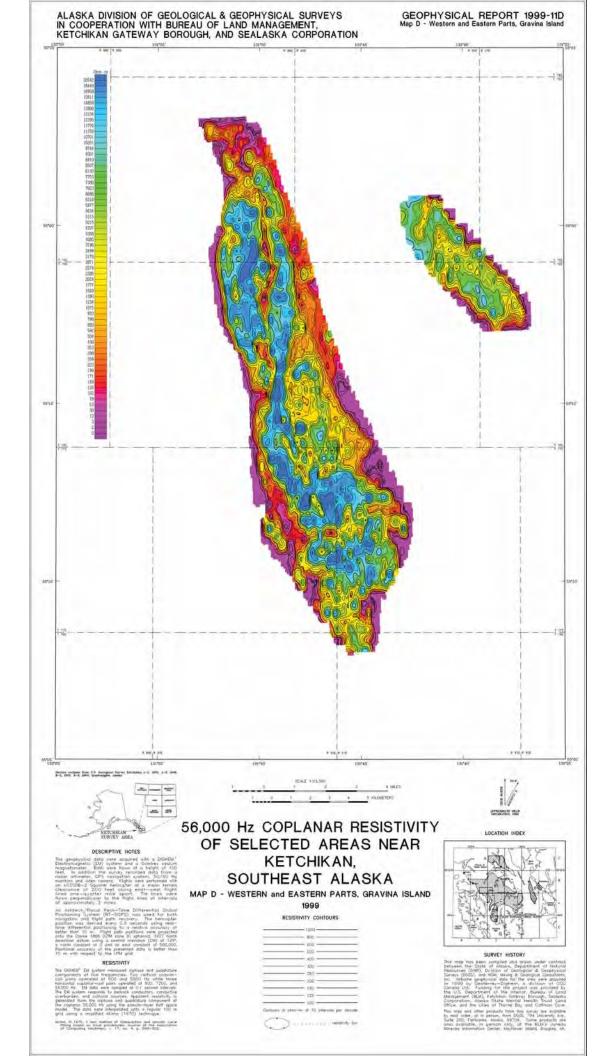
ALASKA DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS IN COOPERATION WITH BUREAU OF LAND MANAGEMENT. KETCHIKAN GATEWAY BOROUGH, AND SEALASKA CORPORATION GEOPHYSICAL REPORT 1999-10C Map C - Surveyed Area South of 55"19", Prince of Wales Island ENERGE DESIGNATION ... COLOR SHADOW SOUTH W TOTAL FIELD MAGNETICS OF SELECTED AREAS NEAR KETCHIKAN. SOUTHEAST ALASKA MAP C - SURVEYED AREA SOUTH OF 55'15', PRINCE OF WALES ISLAND 1999 Sun Azimuth 65 degrees inclination 30 degrees THURSDAY

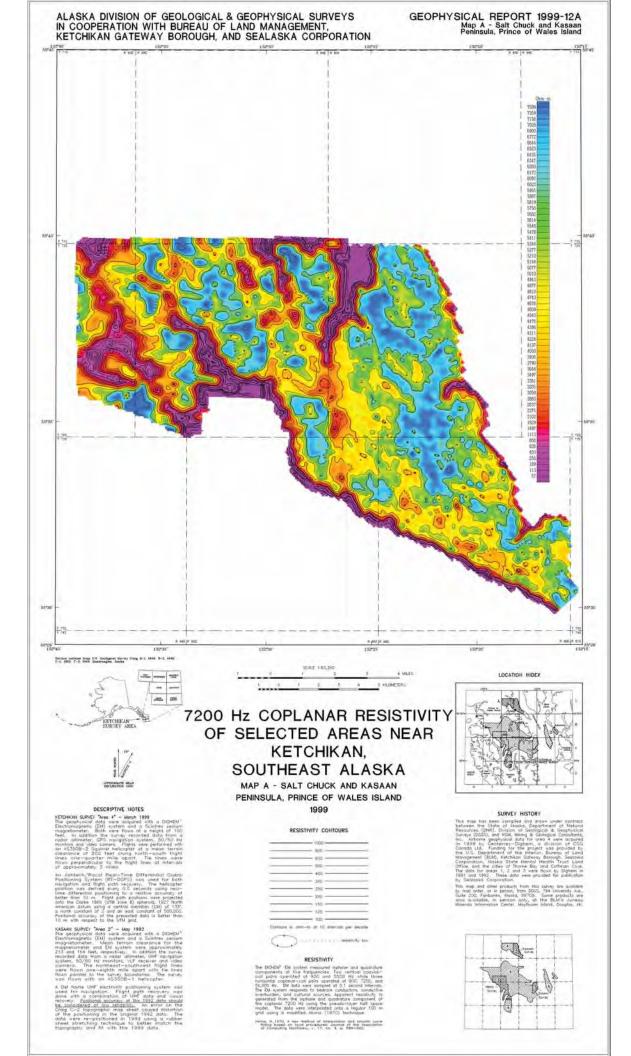


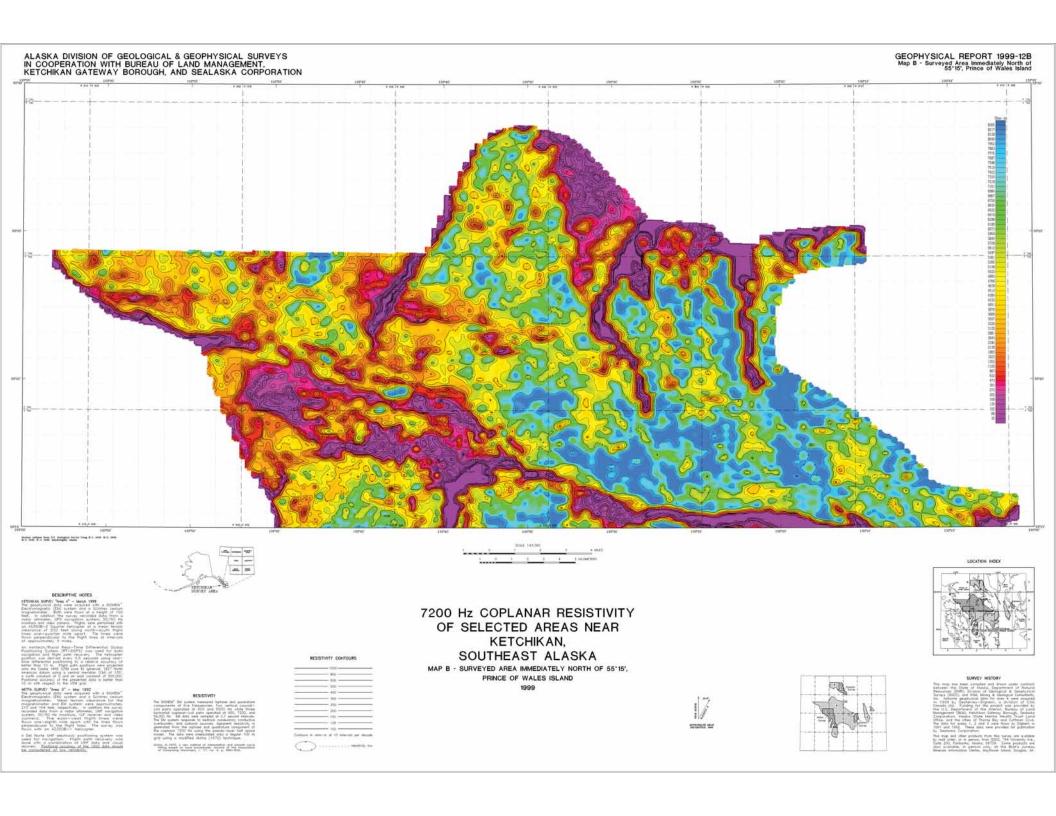
ALASKA DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS IN COOPERATION WITH BUREAU OF LAND MANAGEMENT, KETCHIKAN GATEWAY BOROUGH, AND SEALASKA CORPORATION GEOPHYSICAL REPORT 1999-11A Map A - Salt Chuck and Kasaan Peninsula, Prince of Wales Island Sertice outline trop U.S. Seological Services (140) C-S. 1989. Sunfrengles, classes LOCATION HIDEX 56,000 Hz COPLANAR RESISTIVITY OF SELECTED AREAS NEAR KETCHIKAN, SOUTHEAST ALASKA MAP A - SALT CHUCK AND KASAAN PENINSULA, PRINCE OF WALES ISLAND 1999 RESISTIVITY CONTOURS RESISTIVITY Filling board on both procedural attemption and amount spins filling board on both procedural attempt of the head filling of Computing Martinery, v. 17, no. 4, p. 589-502.

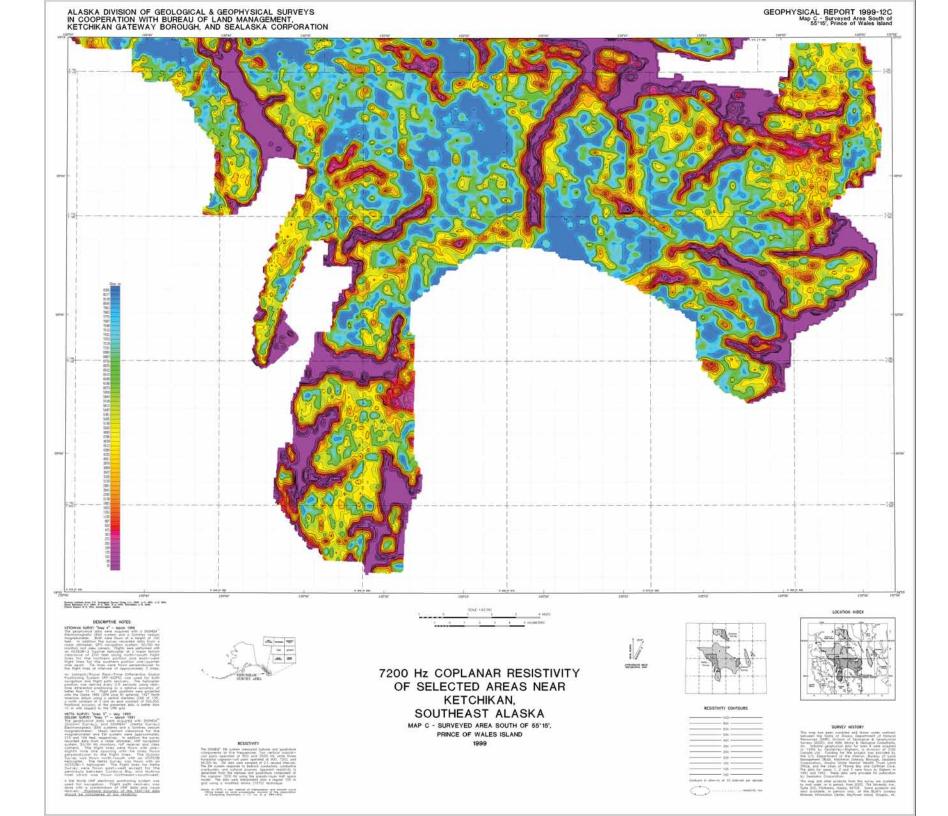


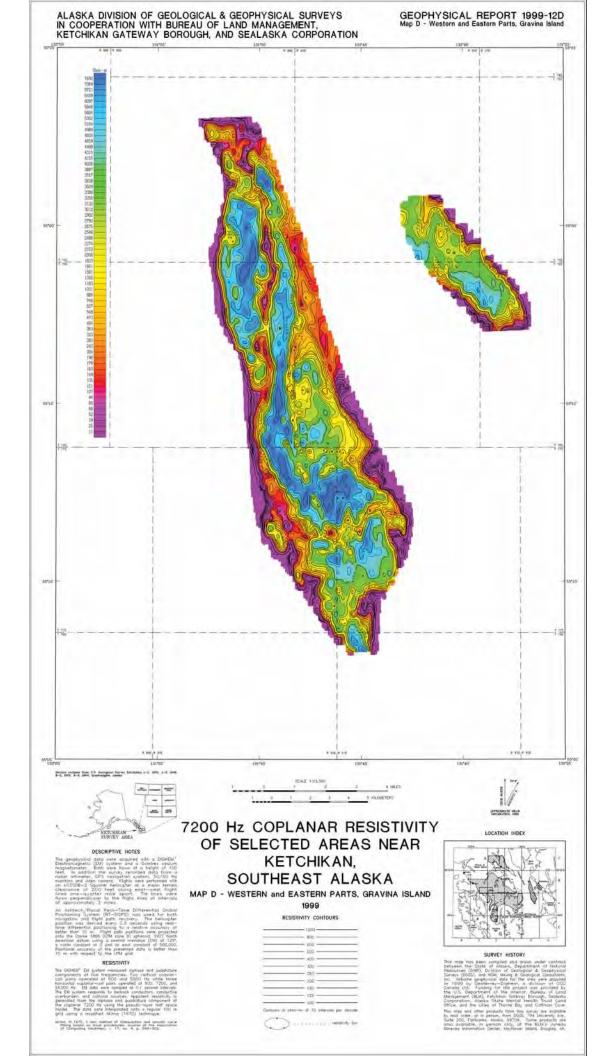


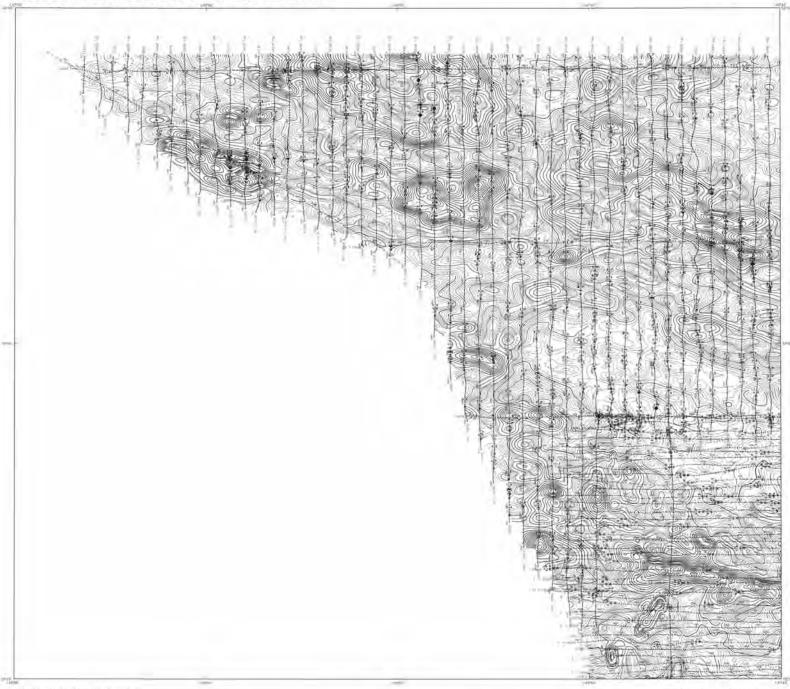














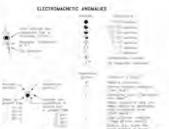


TOTAL FIELD MAGNETICS AND DETAILED ELECTROMAGNETIC ANOMALIES

OF SELECTED AREAS NEAR KETCHIKAN,

SOUTHEAST ALASKA

PARTS of CRAIG B-3 and B-4 QUADRANGLES 1999

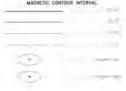






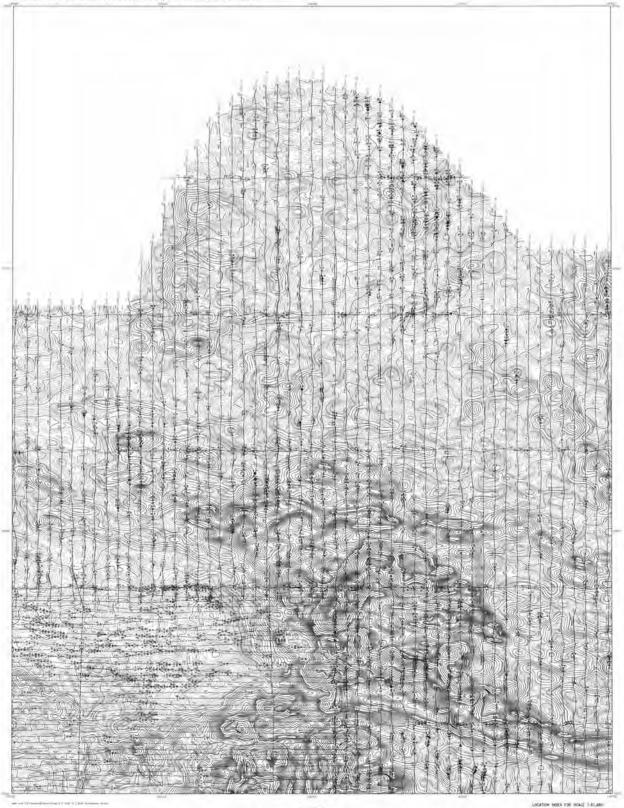


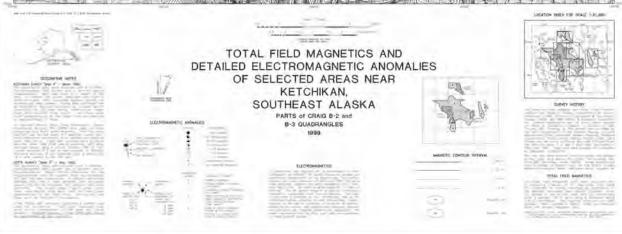
MAGNETIC CONTOUR INTERVAL

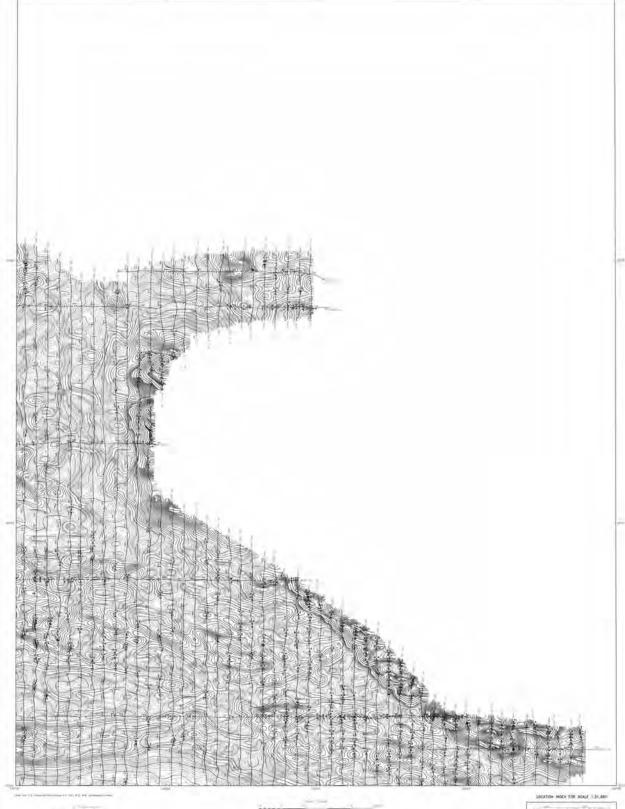
















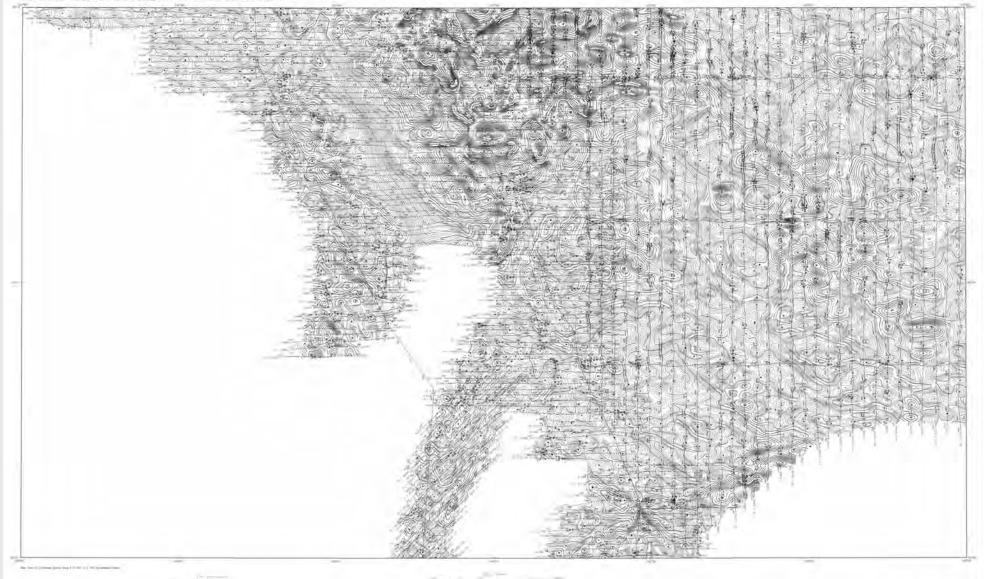














TOTAL FIELD MAGNETICS AND DETAILED ELECTROMAGNETIC ANOMALIES OF SELECTED AREAS NEAR KETCHIKAN, SOUTHEAST ALASKA

PARTS of CRAIG A-2 and A-3 QUADRANGLES



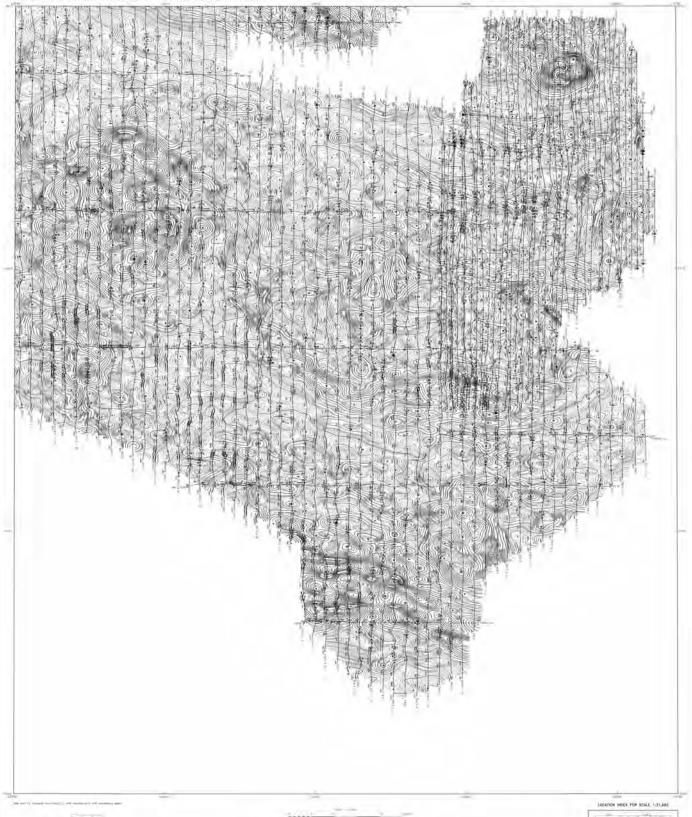


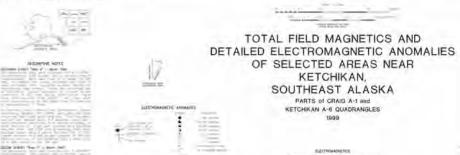


MARINETIC CONTOUR HITERVAL



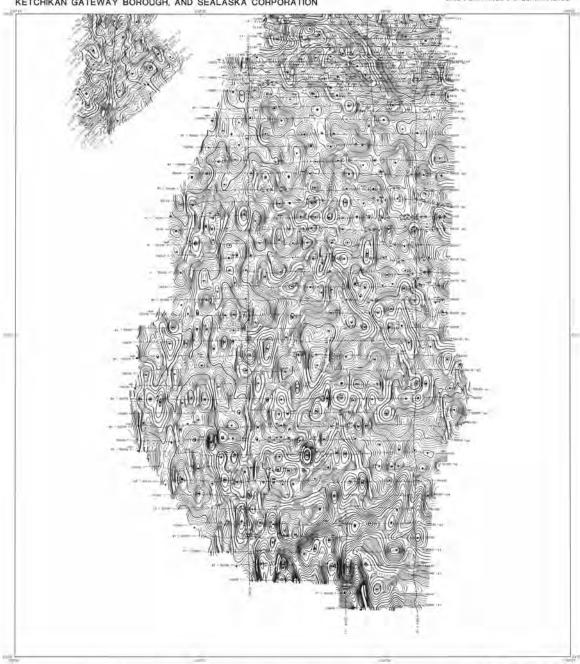
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ELECTROMADACTIC: ANGMALICS





XOTAL TREED MACAETRES

WARNETTE CONTOCE HITERWAL

