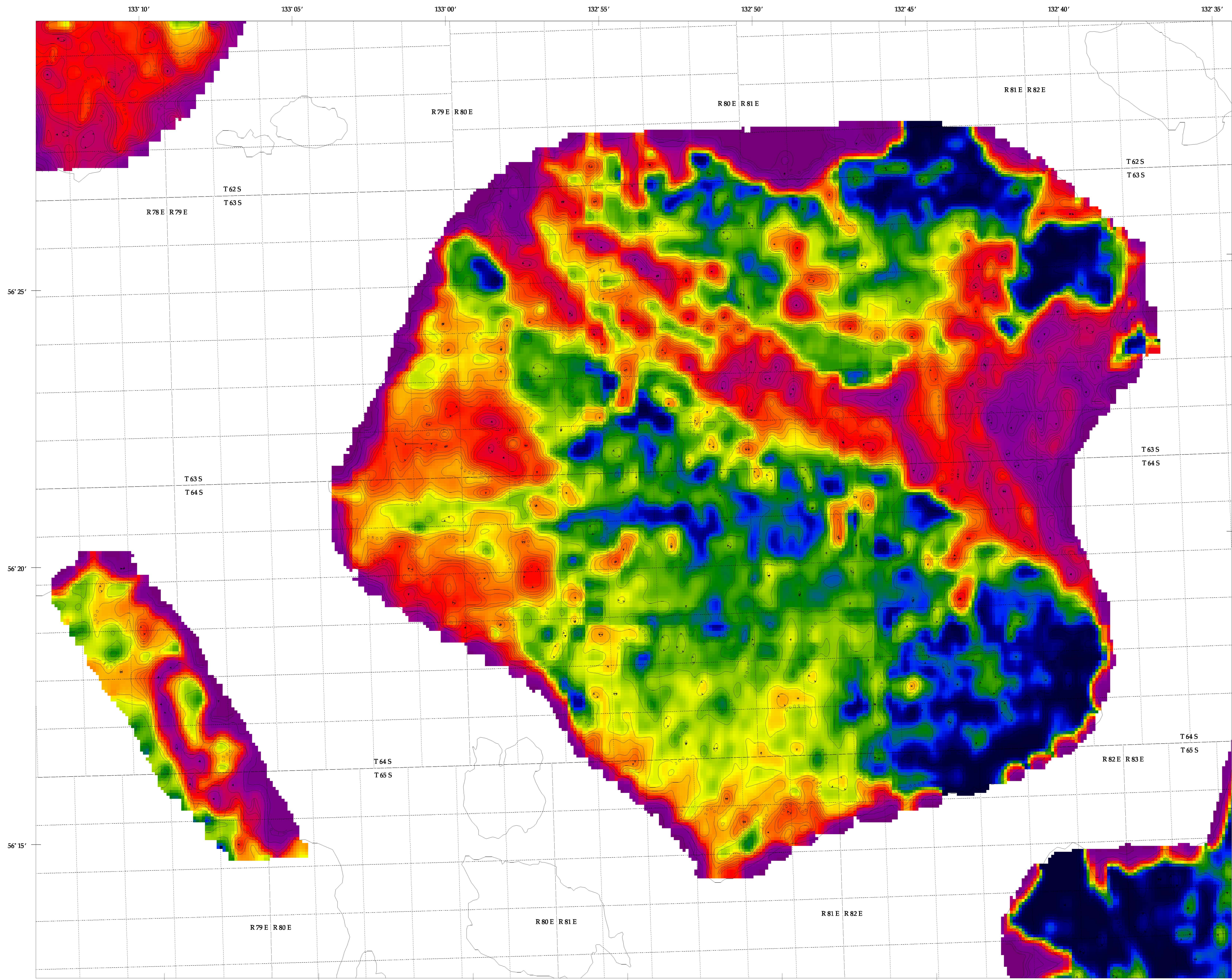


ALASKA DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS
IN COOPERATION WITH U.S. BUREAU OF LAND MANAGEMENT
AND CITY OF WRANGELL

REPORT OF INVESTIGATIONS 97-19C



Section outlines from U.S. Geological Survey Petersburg A-2, 1953; A-3, A-4, 1949; B-2, 1953; B-3, 1948; B-4, 1949; Wrangell, Alaska

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 (DGGS), and WGM, Mining and Geological Consultants, Inc. Airborne geophysical data for the area were acquired by Geotrex-Digheem, a division of CGG Canada Ltd., in 1997. Funding for the project was provided by the U.S. Department of the Interior Bureau of Land Management (BLM) and the City of Wrangell.

This map and other products from this survey are available from DGGS, 794 University Ave., Suite 200, Fairbanks, Alaska, 99709. Phone: (907) 451-5020. FAX: (907) 451-5050. Some products are also available at the BLM's Juneau Mineral Information Center, Mayflower Island, Juneau, AK.

NOTICE:

THE COLOR SCHEMES USED ARE UNIQUE TO EACH MAP IN THE RI 97-18 A-E & RI 97-19 A-E SERIES. THIS EMPHASIZES THE ANOMALIES THAT ARE IN EACH AREA. IN ORDER TO COMPARE ONE MAP WITH ANOTHER YOU WILL NEED TO PAY CLOSE ATTENTION TO THE RANGES SPECIFIED ON THE COLOR BARS FOR EACH MAP. CUSTOM PLOTS OF ANY OF THE MAPS USING THE SAME COLOR SCHEME ARE AVAILABLE ON REQUEST.

7200 Hz COPLANAR RESISTIVITY OF THE STIKINE AREA, SOUTHEASTERN ALASKA
MAP C -- ZAREMBO ISLAND AND EASTERN PRINCE OF WALES ISLAND

RESISTIVITY

The DIGHEM-V EM system measured inphase and quadrature components at five frequencies. Two vertical coaxial coil-pairs operated at 900 and 5000 Hz while three horizontal coplanar coil-pairs operated at 900, 7200, 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 7200 Hz using the pseudo-layer half space model. The data were interpolated onto a regular 100 m grid using a modified Akima (1970) technique.

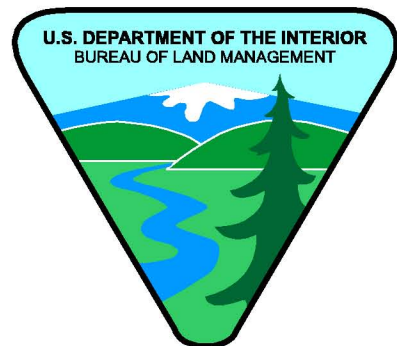
Akima, H., 1970, A new method of interpolation and smooth curve fitting based on local procedures: Journal of the Association of Computing Machinery, v. 17, no. 4, p. 589-602.

1997

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Department of Natural Resources
Division of Geological & Geophysical Surveys
Geologic Data Modeling System



Department of the Interior
Bureau of Land Management



City of Wrangell

