



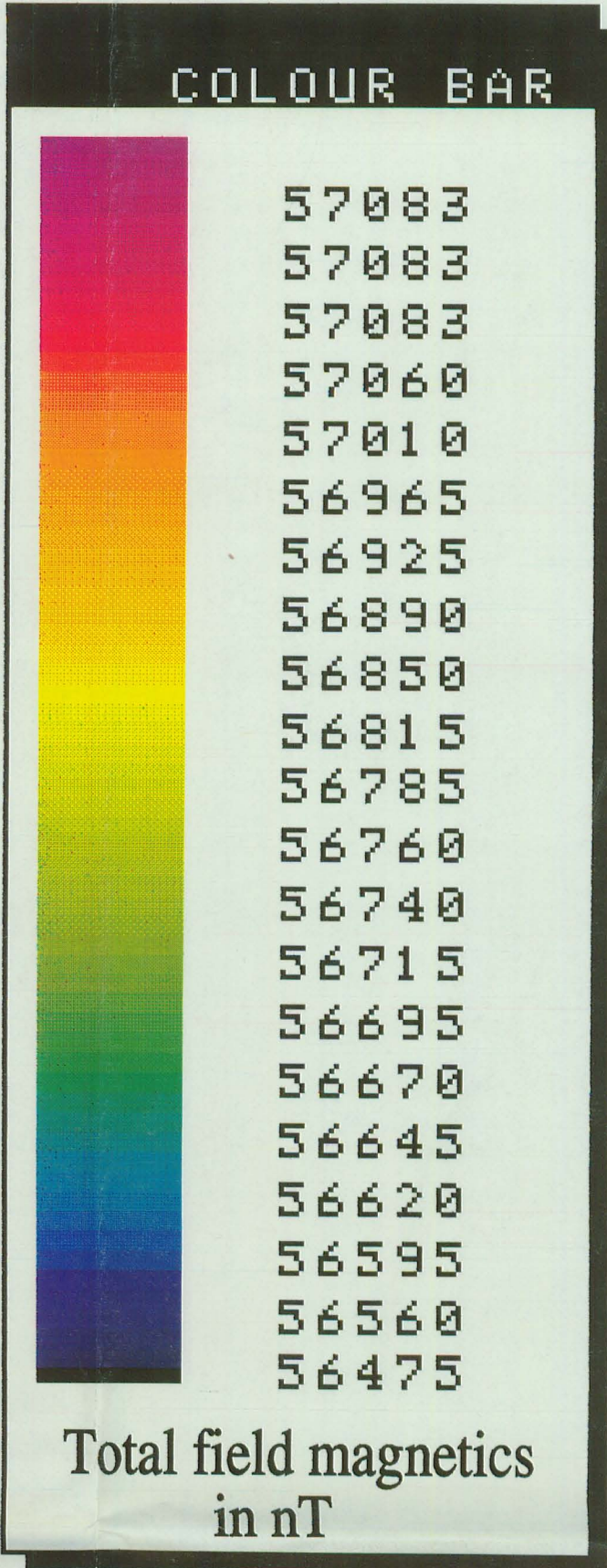
Department of Natural Resources  
Division of Geological and Geophysical Surveys  
Geologic Data Modeling System

Department of the Interior  
Bureau of Land Management



City of Wrangell

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NOTICE:

THE COLOR SCHEME USED IS IDENTICAL FOR MAPS RI 97-17A-D IN ORDER THAT THE MAPS CAN BE COMPARED EASILY WITH ONE ANOTHER. SOME DETAILS ON MAPS C AND D MAY BE LOST BECAUSE OF THIS. CUSTOM PLOTS SHOWING DIFFERENT COLOR SCHEMES FOR MAPS C AND D ARE AVAILABLE ON REQUEST.

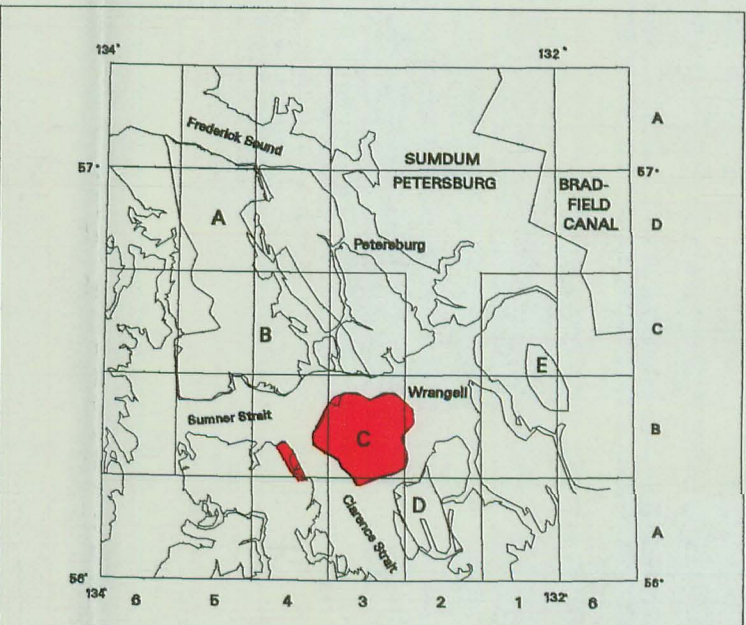
THE COLOR SCHEME USED FOR MAP RI 97-17E IS DIFFERENT THAN THAT USED FOR MAPS RI 97-17A-D.

SURVEY HISTORY

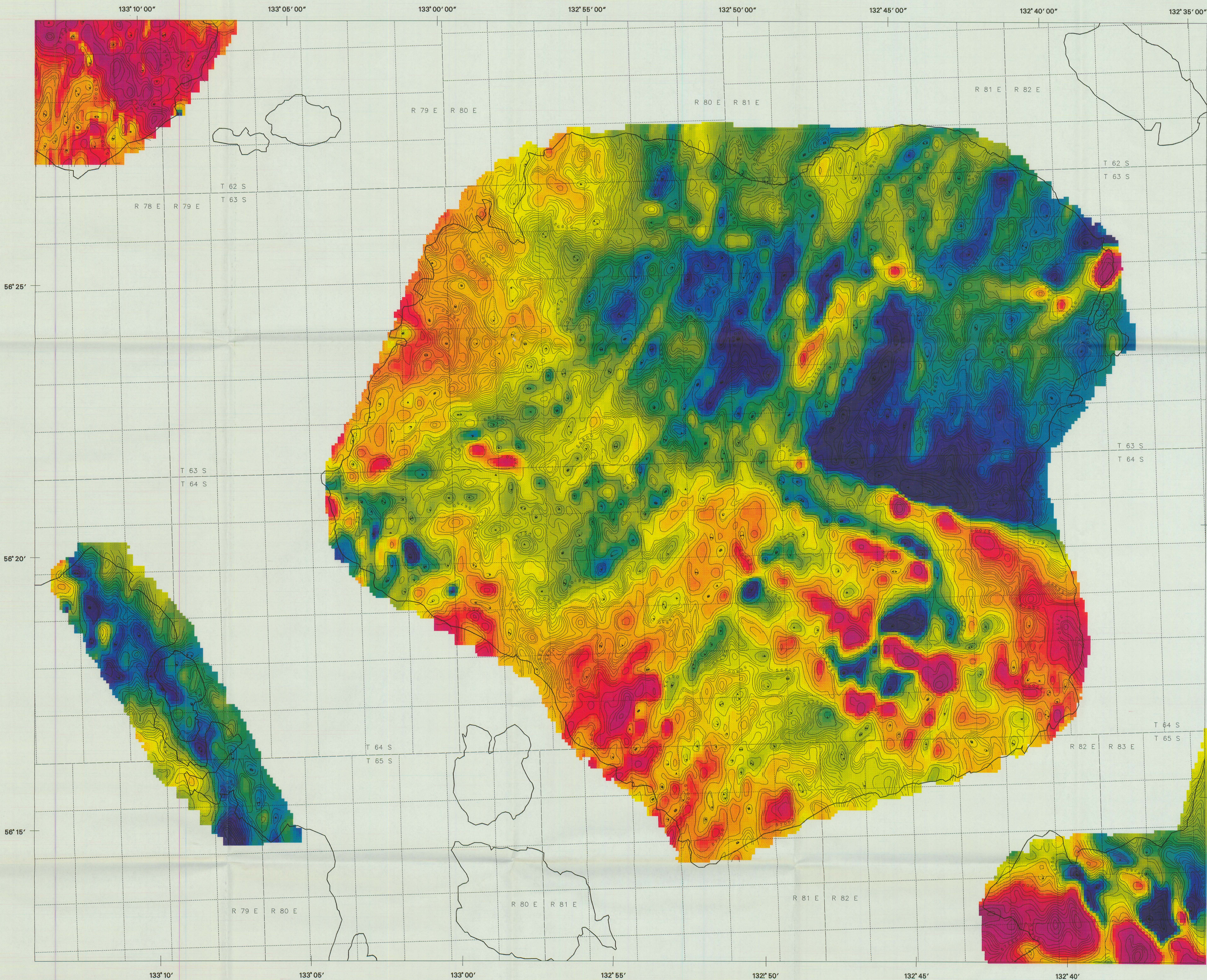
This map has been compiled and drawn under contract between the State of Alaska, Department of Natural Resources, Division of Geological & Geophysical Surveys (DGGs), and WGM, Mining and Geological Consultants, Inc. Airborne geophysical data for the area were acquired by Geotrex-Digheim, a division of 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 in person only at the BLM's Juneau Mineral Information Center, Mayflower Island, Juneau, Ak.

LOCATION INDEX



October 11, 1997



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

TOTAL FIELD MAGNETICS

The total field magnetic data were acquired with a sampling interval of 0.1 seconds. The magnetic data were (1) corrected for diurnal variations by subtraction of the digitally recorded base station magnetic data, (2) leveled to the tie line data, and (3) interpolated onto a regular 100 m grid using a modified Akima (1970) technique. The regional variation (or IGRF, 1965 updated to October 1985) was removed from the leveled magnetic data.

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.

DESCRIPTIVE NOTES

Geophysical data were acquired with a DIGHEM-V Electromagnetic (EM) system, a Schintex cesium magnetometer, and a Herz VLF system installed in an AS350B-2 Squirrel helicopter. In addition, the survey recorded data from a radar altimeter, 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. The lines were flown perpendicular to the flight lines at intervals of approximately three miles.

A Seracel 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 both real-time and post-processing differential positioning to a relative accuracy of better than 10 m. Flight path positions were projected onto the Clarke 1866 (UTM) spheroid, 1927 North American datum using a Central Meridian (CM) of 135 degrees, 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.

TOTAL FIELD MAGNETICS OF THE STIKINE AREA, SOUTHEASTERN ALASKA  
MAP C -- ZAREMBO ISLAND AND EASTERN PRINCE OF WALES ISLAND

1997