

EXPERIMENTAL COLOUR MAP

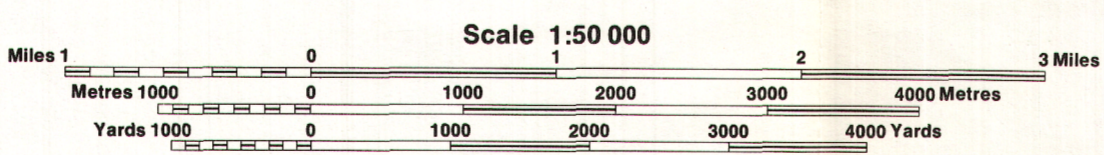
This map was compiled using the following computer automated techniques. Aeromagnetic digital data values were interpolated from the flight line data at the nodes of a regular grid covering the survey area. Each grid cell was 20 cm square. A colour code was assigned to each cell according to the amplitude of the aeromagnetic value within the cell using the colour scale shown in the legend. The data matrix was output on an Agfa colour jet plotter to produce a colour field map identical to the one above. To permit colour printing colour separations were made with the plotter to produce the red, yellow and blue components of the map on separate sheets.

The Geological Survey of Canada would appreciate your comments concerning the merits of this type of compilation.

Please address your comments to:
 Re: Experimental Aeromagnetic Colour Map
 The Director General,
 Geological Survey of Canada,
 601 Booth Street,
 Ottawa, Ontario,
 K1A 0S9,
 Canada.

**EXPERIMENTAL COLOUR COMPILED
(HIGH RESOLUTION AEROMAGNETIC TOTAL FIELD)**

**MAP C 20, 345 G
SHERRIDON
MANITOBA**



Funds for this survey were provided jointly by the Manitoba Department of Energy and Mines and the Geological Survey of Canada, under the Federal-Provincial Northlands Agreement.

DESCRIPTIVE NOTES

The aeromagnetic total field information printed on this map was compiled from digitally-recorded aeromagnetic survey data obtained using an inboard cesium vapour magnetometer which measured the total field with a resolution of 0.005 gamma. Flight altitude was 150 m above ground at 300 m average flight line spacing. Double control lines were flown at an average spacing of 12 kilometers.

The data was edited, compiled, levelled and gamma values interpolated on a square grid (0.25 cm grid spacing at the published map scale) by computer processes.

The levelling process employed the two components of the double control line and the short segments of traverse which connected them where they were not exactly coincident. This data was used to minimize and distribute non-geological contributions from the total magnetic field profile along the control line. The corrected control lines were used to level the traverse lines by a method of minimum sum-total adjustment.

No correction has been made for the regional gradient of the earth's magnetic field.

Airborne survey and digital compilation was carried out by Resource Geophysics and Geochemistry Division, Geological Survey of Canada. The survey operations took place between July 1989 and August 1992 using Beechcraft Queenair 65-B80 aircraft C-FWZG.

The topography for this map was reproduced from 1:50,000 topographical map sheets, published by the Department of Energy, Mines and Resources, Ottawa.

The survey data used to compile this map is available in digital form from the Geological Survey of Canada on a cost recovery basis.

Copies of this map may be obtained from the Mineral Resources Division, Manitoba Department of Energy and Mines, Winnipeg, or from the Geological Survey of Canada, Ottawa.

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