St. Marys - Residual

DESCRIPTIVE NOTES

This map is derived from the total field data recorded during aeromagnetic survey operations by a self-orienting rubidium-vapour magnetometer which was installed in the tail stinger of a Beechcraft B80 Queenair aircraft. The data were digitally recorded with a resolution of 0.02 gammas.

Flight altitude was 1500 feet Barometric at 1500 feet average flight line spacing and double control lines were flown at an average spacing of 4 miles.

The data were edited, compiled, levelled and gamma values for contouring interpolated on a square grid (0.1" grid spacing at the published map scale) by automatic computer processes.

Several digital operators were applied to the total field magnetic data to remove the regional magnetic variations and longer wave length magnetic features. The residual magnetic map represents the short wave length magnetic features which are produced by the underlying near-surface local geology.

The final grid was contoured and plotted using the automatic contouring program and digital plotter facilities of the Department of Energy, Mines and Resources, Computer Science Centre.

Airborne survey was carried out from September to November 1970 and digital compilation by Resource Geophysics and Geochemistry Division, Geological Survey of Canada. The Queenair aircraft of the Geological Survey of Canada was flown under contract to Kenting Earth Sciences Ltd.

ISOMAGNETIC LINES (residual total field)

0-100 gammas .....

5 gammas .....

Magnetic depression .....

Flight altitude: 1500 feet Barometric

Contour interval: 5 gammas

GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES

11 E/7 WEST HALF
NOVA SCOTIA
RESIDUAL MAGNETIC FIELD

Scale 1:50,000

Kilometres 1 0 1 2 3 4 Kilometres

Miles 1 0 1 2 Miles

Universal Transverse Mercator Projection

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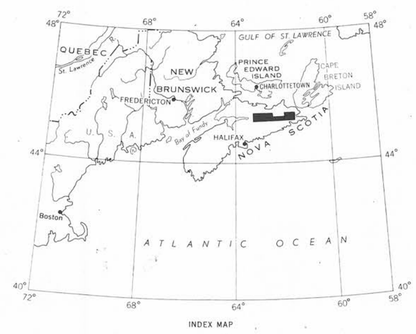

INDEX MAP

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DOSSIER PUBLIC
629
JULY 1979
GEOLOGICAL SURVEY
COMMISSION GÉOLOGIQUE
OTTAWA

This document was produced by scanning the original publication.

Ce document est le produit d'une numérisation par balayage de la publication originale.