GEOPHYSICAL SERIES

HIGH RESOLUTION AEROMAGNETIC TOTAL FIELD)

PROVINCE
OF
NOVA SCOTIA
DEPARTMENT OF MINES AND ENERGY
MINERAL RESOURCES AND GEOLOGICAL SERVICES

DEPARTMENT
OF
ENERGY, MINES AND RESOURCES
GEOLOGICAL SURVEY OF CANADA

MAP 20.230 G
11E/16a&b
NOVA SCOTIA

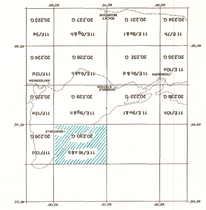
SCALE 1:25,000

1 MILE
FEET 3000 2000 1000 0 1000 2000 3000 4000 5000
METRES 500 0 500 1000 1500 2000 METRES

ISOMAGNETIC LINES (absolute total field)

250 gammas
50 gammas
10-20 gammas
(1 gamma = 1 nanotesla in SI units)
2 gammas
Magnetic depression
Flight lines
Flight altitude: 150m above ground level

INDEX MAP



PUBLISHED 1980

This map was compiled from digitally-recorded aeromagnetic survey data obtained using an airborne rubidium 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 16a was added, compiled, leveled and gamma values for contouring interpolated on a square grid (0.25 cm grid spacing at published map scale) by computer processes.

The leveling process employed the two components of the double control line and the tie-line magnetics of traverse which crossed the main lines at regular intervals. 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 curvature.

The contouring and digitization was carried out by Dynamic Graphics Inc. Alberta.

Digitizing Services Ltd., Toronto.

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

The survey data is available in digital form from the Geological Survey of Canada at the cost of retrieval, lines and resources, Ottawa.

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

Flights for this survey were provided jointly by the Canada Department of Regional Economic Expansion, the Geological Survey of Canada, and the Nova Scotia Department of Mines and Energy.

Copies of this map may be obtained from the Mineral Resources, Nova Scotia Department of Mines, Halifax, or from the Geological Survey of Canada, Ottawa.

MAP 20.230 G
11E/16a&b
NOVA SCOTIA