PROVINCE OF
NEW BRUNSWICK
DEPARTMENT OF NATURAL RESOURCES
MINERAL RESOURCES BRANCH

DEPARTMENT
OF
ENERGY, MINES AND RESOURCES
GEOLOGICAL SURVEY OF CANADA

GEOPHYSICAL SERIES (HIGH RESOLUTION AEROMAGNETIC)

66°15′00″ — 20, 181G "21-O/9b" — 66°07′30″

47°30′00″

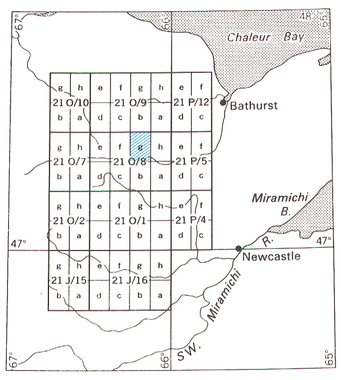
20, 188G "21-O/8f"

20, 172G "21-O/8h"

47°22′30″

66°15′00″ — 20, 179G "21-O/8b" — 66°07′30″

Published, 1975



INDEX MAP

ISOMAGNETIC LINES (absolute total field)

250 gammas
50 gammas
10 gammas
2 gammas
Magnetic depression — L
Flight lines — 30253 — 60710.0

Flight altitude 2500 feet above sea level

MAP 20,180G

21-O/8g

NEW BRUNSWICK

SCALE 1:25,000

Feet 2000 0 2000 4000 6000 Feet

Metres 600 0 600 1200 1800 Metres

NOTE:
Slight mismatches occur in some places between adjacent photomosaics used as base maps for this survey. These discontinuities were eliminated from the aeromagnetic data by adjustment and distribution routines in the automatic compilation system. As a result, some features on the printed mosaics may be displaced by up to 100 metres with respect to the aeromagnetic contours.

The Survey was a joint project of the Canada Dept. of Energy, Mines and Resources and the New Brunswick Department of Natural Resources, who were funded by the Department of Regional Economic Expansion.

Copies of this map may be obtained from the Publication Division of the Department of Natural Resources, New Brunswick, Fredericton, or from the Geological Survey of Canada, Ottawa.

This map is based on digitally recorded high sensitivity aeromagnetic data obtained with a rubidium vapour magnetometer measuring the total magnetic field to a resolution of 0.02 gamma. Flight altitude was 2500 feet above sea level at 1000 feet average flight line spacing and double control lines were flown at an average spacing of 7 miles, during late 1972.

The data was edited, compiled, levelled and gamma values for contouring interpolated on a square grid (10.16 grid cells per inch at the published map scale) by automatic computer processes.

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

The final data grid was contoured and plotted using the automatic contouring program and digital plotter facilities of Survair Ltd.

No correction has been made for regional variation.

Airborne Survey and digital compilation by Resource Geophysics and Geochemistry Division, Geological Survey of Canada.

The photo base for this map was compiled by Surveys and Mapping Branch, Department of Energy, Mines and Resources.

The survey data used to compile this map is available in digital form from the Geological Survey of Canada at the cost of retrieval and copying.

MAP 20,180G
21-O/8g
NEW BRUNSWICK