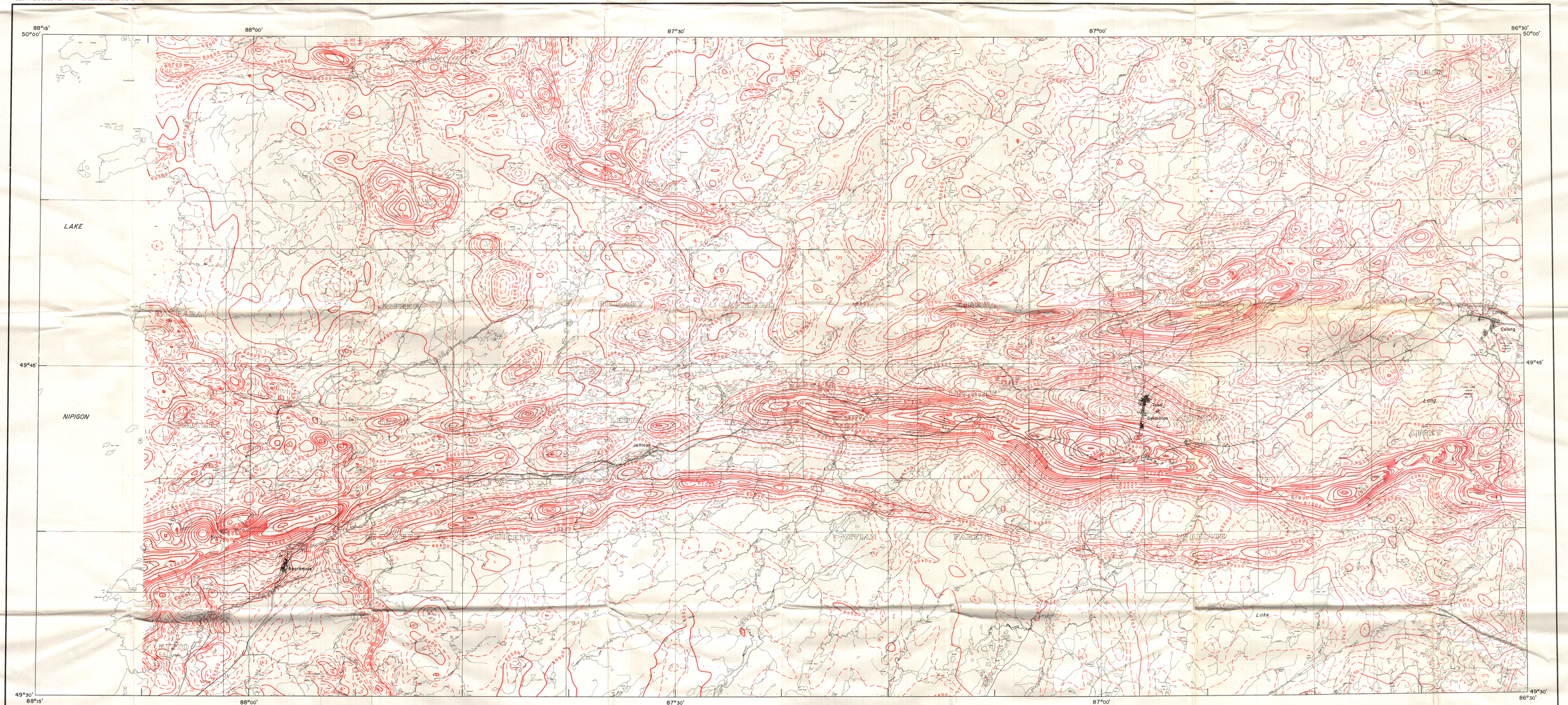
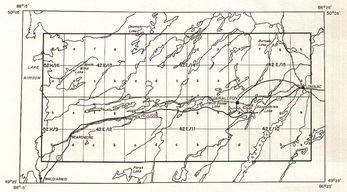
PROVINCE
OF
ONTARIO
MINISTRY OF NATURAL RESOURCES
DIVISION OF MINES

DEPARTMENT
OF
ENERGY, MINES AND RESOURCES
GEOLOGICAL SURVEY OF CANADA

GEOPHYSICAL SERIES (HIGH RESOLUTION AEROMAGNETIC)



PUBLICATION 1974



ISOMAGNETIC LINES (absolute total field)

500 gammas.....
100 gammas.....
25 gammas.....
Magnetic depression.....

Flight altitude: 1000 feet above ground level

MAP 30,002 G

JELLICOE PROJECT

ONTARIO

SCALE 1:125,000

Miles 2 0 2 4 Miles
Kms 5 0 5 10 Kms

HIGH RESOLUTION AEROMAGNETIC SURVEY REFERENCE MAP

This map is a condensed representation of all the high resolution aeromagnetic data within a single survey area. It is intended solely to allow an overall view of the trends and major features of the data and to act as a guide to the 1:25,000 scale map coverage shown by the index map.

Airborne survey and digital compilation by Resource Geophysics and Geochemistry Division, Geological Survey of Canada. Flying took place in August 1971.

No correction has been made for regional variation.

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

The data represented by these maps is available in digital form from the Geological Survey of Canada at the cost of retrieval and copying.

Copies of this map may be obtained from the Publication Division of the Ministry of Natural Resources, Province of Ontario, Toronto, or from the Geological Survey of Canada, Ottawa.

This map is based on in-flight 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 1000 feet above ground at 1000 feet average flight line spacing and double control lines were flown at an average spacing of 7 miles.

The data was 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.

The automatic levelling process employs the two components of the double control line and the short segments of traverse which connect them. Digital filtering techniques are used to remove and 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 adjustments.

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

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