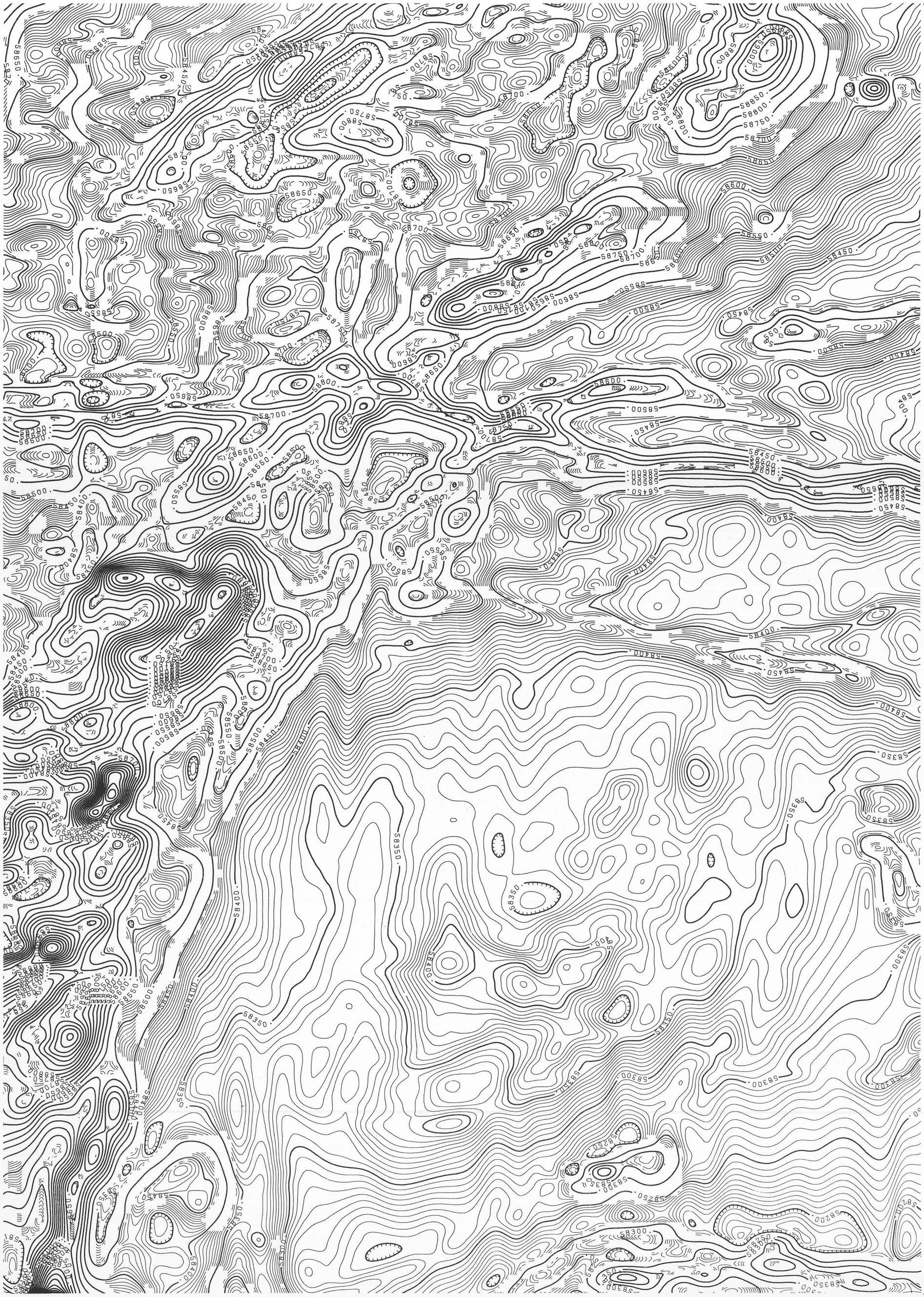
45°25'



76°40'

76°30'

45°15'

DESCRIPTIVE NOTES

This total field contour map was compiled from date 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 was digitally-recorded with a resolution of 0.02 gammas. A second boom mounted above the tail stinger at a distance of 2.08 metres forms a vertical gradiometer system.

Flight altitude was 500 feet above ground at 1000 feet average flight line spacing and double control lines were flown at an average spacing of 4 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 where they are not exactly co-incident. 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 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 in April 1975 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.

No correction has been made for regional variation.

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

ISOMAGNETIC LINES (absolute total field)

50-100 gammas .....

5 gammas .....

Magnetic depression .....

Flight altitude: 500 feet above ground level

Contour interval: 5 gammas

GEOLOGICAL SURVEY OF CANADA — COMMISSION GÉOLOGIQUE DU CANADA

DEPARTMENT OF ENERGY MINES AND RESOURCES
MINISTÈRE DE L'ÉNERGIE DES MINES ET DES RESSOURCES

PART OF 31 F/7
ONTARIO
TOTAL MAGNETIC FIELD

Scale 1:25,000

Metres 600 0 600 1200 1800 Metres

Feet 2000 0 2000 4000 Feet

Universal Transverse Mercator Projection

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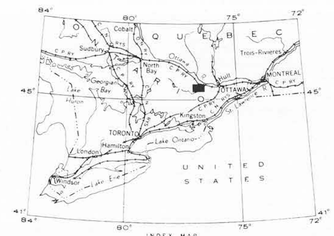

INDEX MAP

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DOSSIER PUBLIC
339
APRIL 1976
GEOLOGICAL SURVEY
COMMISSION GEOLOGIQUE
OTTAWA

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