

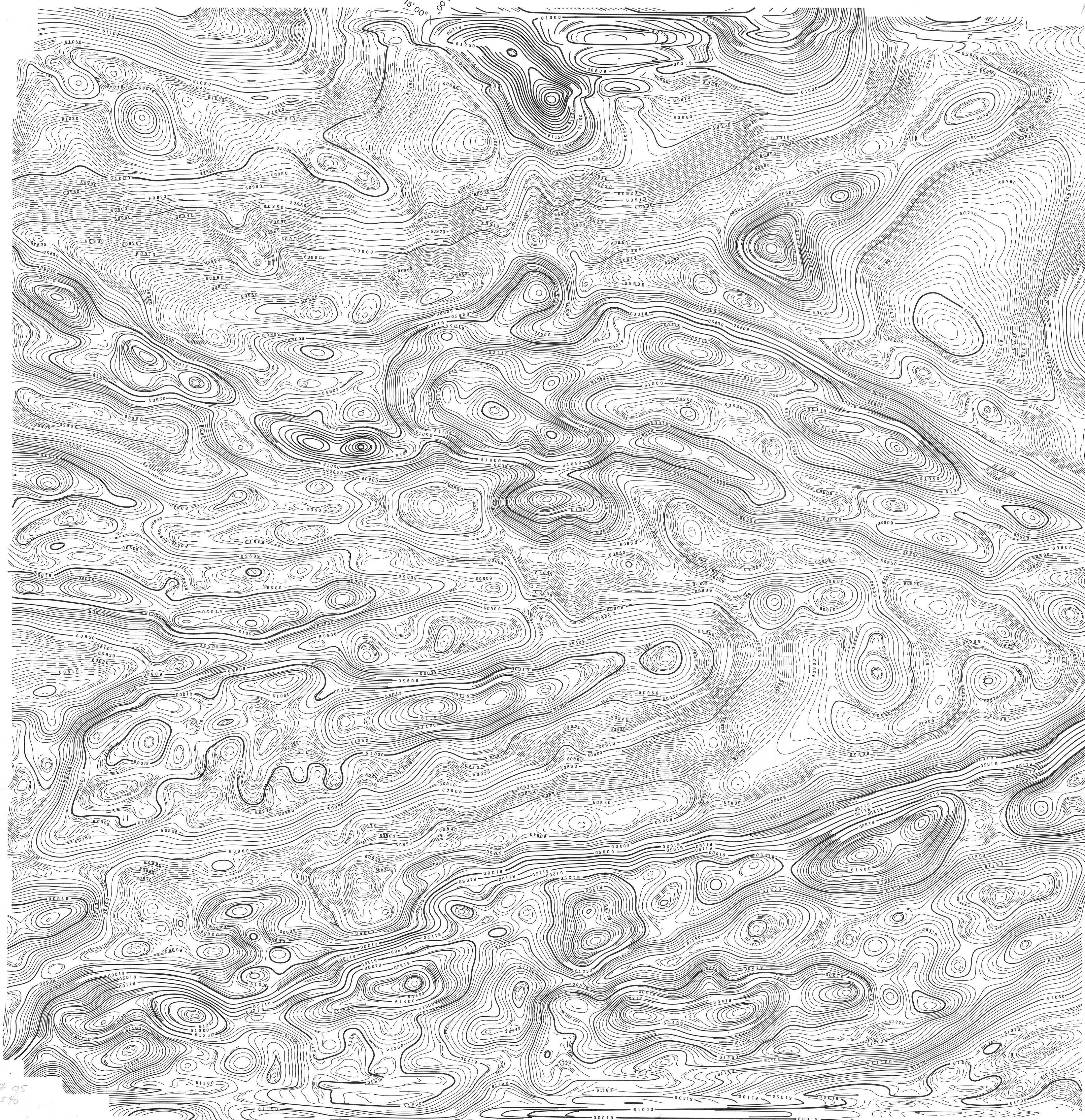


GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES

N 57 10
W 105 50

57° 15' 00"
100° 45' 00"

N 57 20
W 105 37



100° 40' 30" E
57° 15' 00"

57° 07' 30"
100° 45' 00"

TOTAL MAGNETIC FIELD

DESCRIPTIVE NOTES

This total field contour map was compiled from data recorded during aeromagnetic survey operations by a self-orienting rubidium-vapour magnetometer which was installed in the tail stinger of a Beechcraft 800 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 value 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 1977 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.

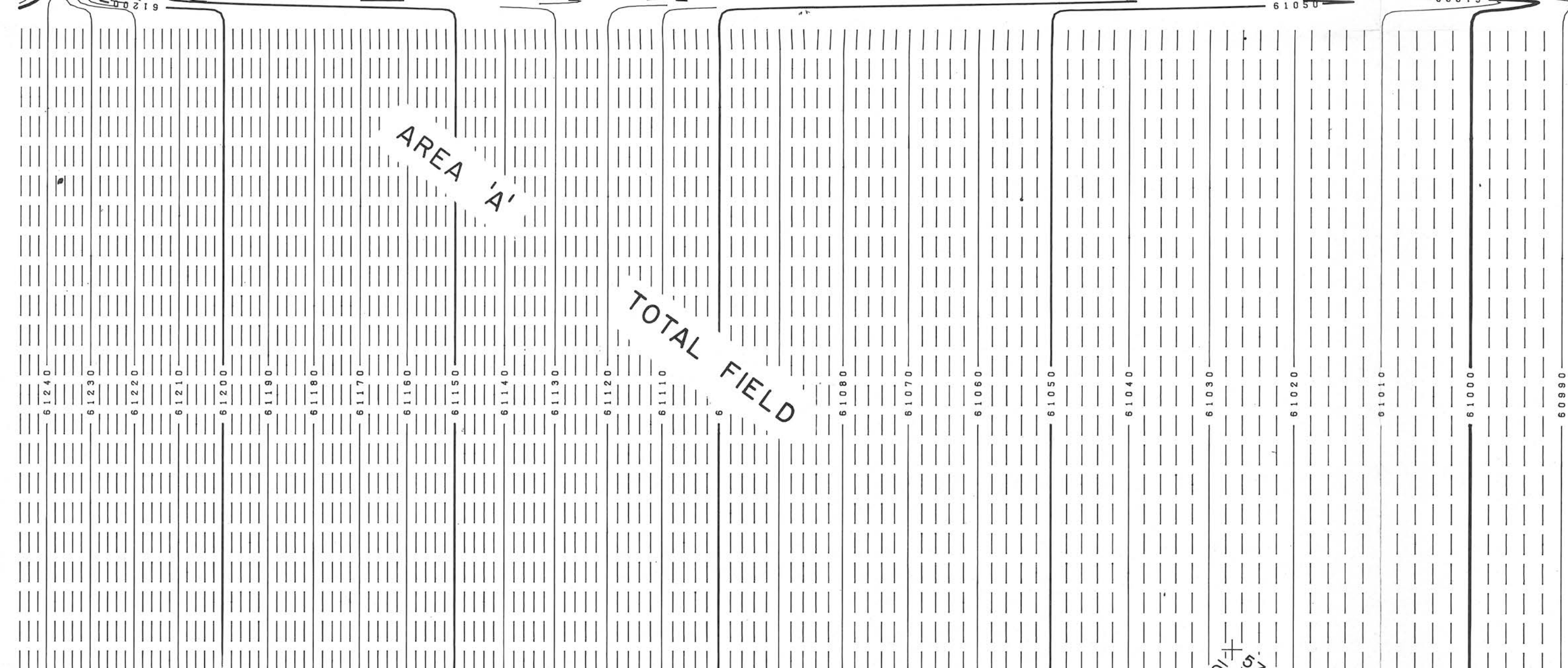
The photo and map base for this map was compiled by Surveys and Mapping Branch, Department of Energy, Mines and Resources.

ISOMAGNETIC LINES (absolute total field)

- 250 gammas.....
- 50 gammas.....
- 10 gammas.....
- 2 gammas.....
- Magnetic depression.....

Flight altitude: 500 feet above ground level

Contour interval: 2 gammas



N 57 11
W 105 25

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GEOLOGICAL SURVEY
COMMISSION GÉOLOGIQUE
OTTAWA

100° 40' 30" E
57° 07' 30"