PROVINCE
OF
ONTARIO
MINISTRY OF NATURAL RESOURCES
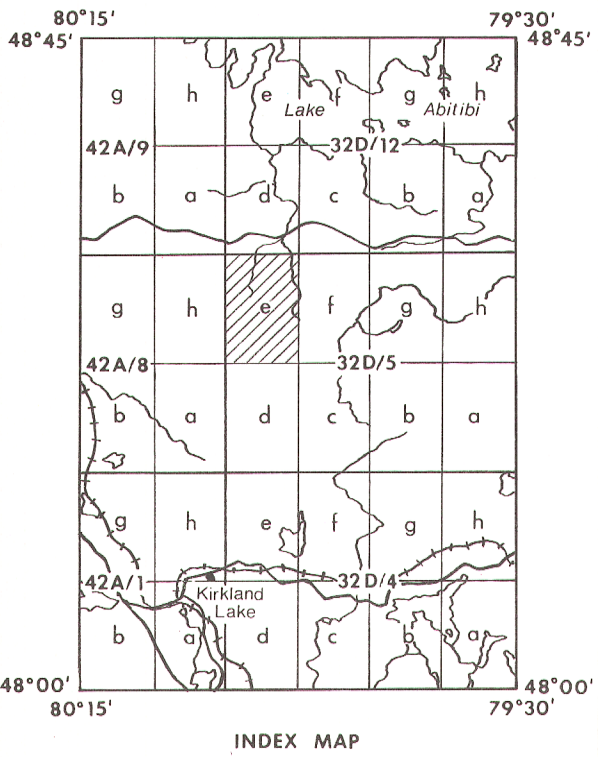DIVISION OF MINES

DEPARTMENT
OF
ENERGY, MINES AND RESOURCES
GEOLOGICAL SURVEY OF CANADA

GEOPHYSICAL SERIES (HIGH RESOLUTION AEROMAGNETIC)

20,141G   32 D/12d

80°00'00"
48°30'00"

79°52'30"
48°30'00"

GARRISON TP.
THACKERAY TP.

48°22'30"
80°00'00"

48°22'30"
79°52'30"

20,139G   32 D/5d
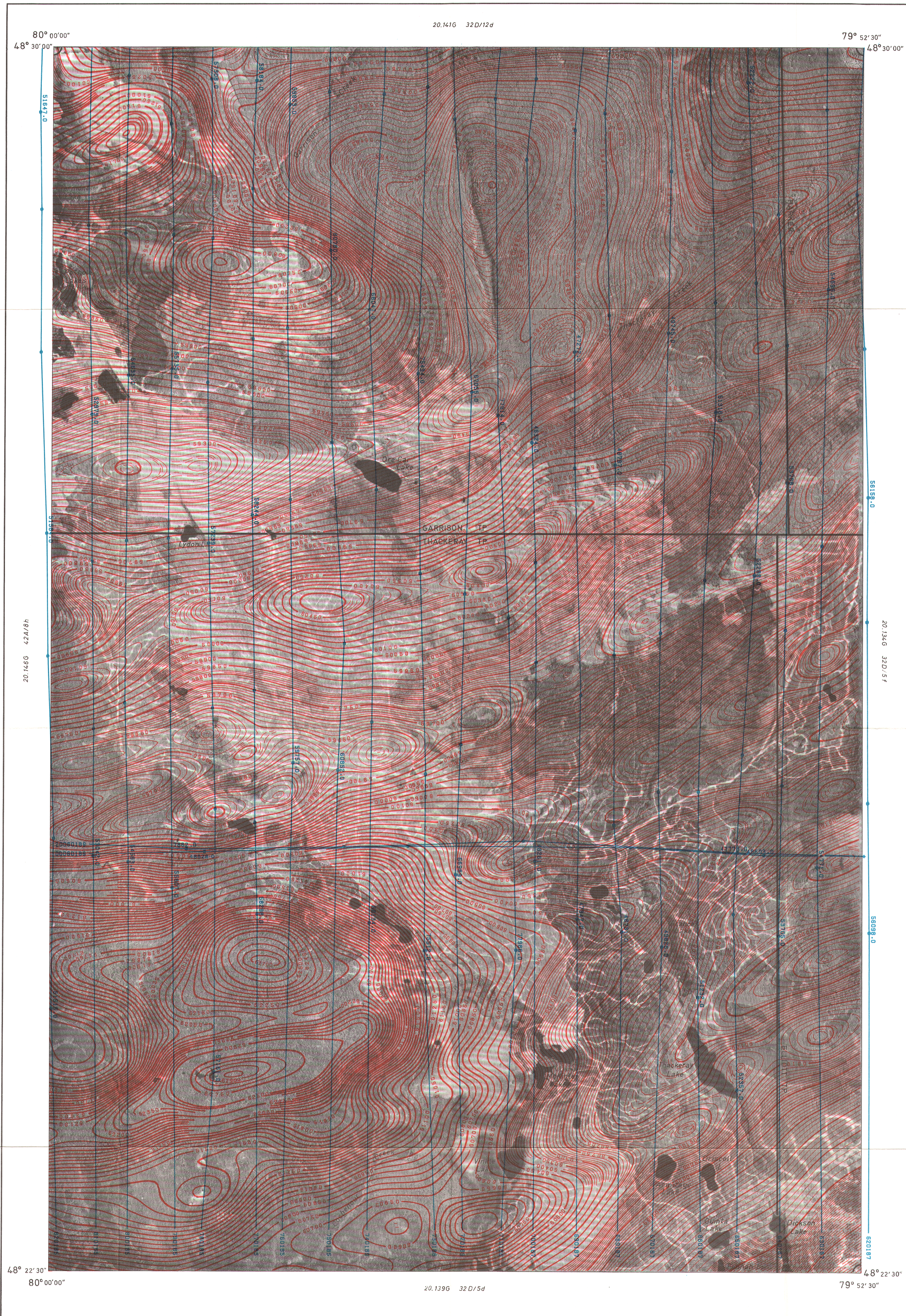
NOTE: Slight mismatches occur in some places between adjacent photomosaics used as base maps for this survey. These discontinuities were eliminated from the aeromagnetic data by adjustment and distribution routines in the automatic compilation system. As a result, some features on the printed mosaics may be displaced by up to 100 metres with respect to the aeromagnetic contours.

Published, 1975

MAP 20,140 G

32 D/5e

ONTARIO

ISOMAGNETIC LINES (absolute total field)

250 gammas	
50 gammas	
10 gammas	
2 gammas	
Magnetic depression	
Flight lines	620187

G3706-0

Flight altitude 1000 feet above ground level

SCALE 1:25,000

Feet 2000   0   2000   4000   6000 Feet
Metres 600   0   600   1200   1800 Metres
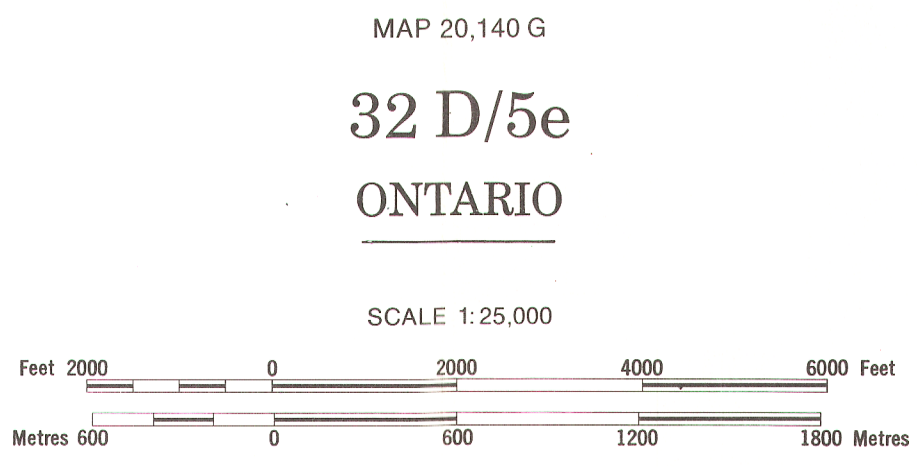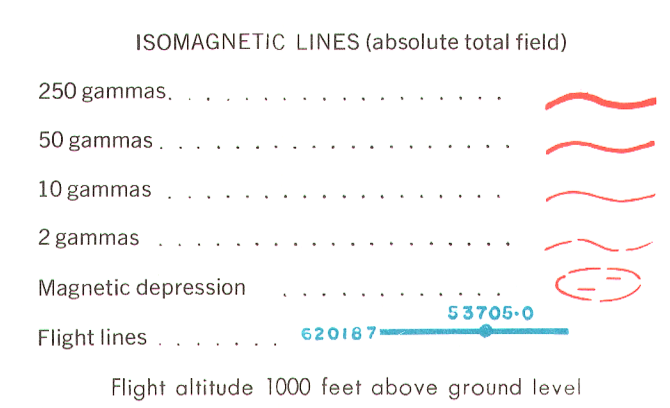
Copies of this map may be obtained from the Publication Division of the Ministry of Natural Resources, Province of Ontario, Toronto, or from the Geological Survey of Canada, Ottawa.

This map is based on 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, during July 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 Dataplotting Services 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 20,140 G
32 D/5e
ONTARIO

INDEX MAP