

**DESCRIPTIVE NOTES FOR TOTAL FIELD MAPS**

The residual total field values were calculated from the vertical gradient data. This method was required because of severe diurnal variations which greatly affected the measured total field. The digitally recorded survey was obtained by two self-orienting cesium vapour magnetometers installed in twin tail booms mounted on the GSC Beechcraft 880 aircraft. The magnetometers are vertically separated by a distance of 2.05 metres with each measuring the total magnetic field to a resolution of 0.005 gammas.

Flight altitude was 150 m above ground at 300 m average flight line spacing. Double control lines at an average spacing of 7.5 kilometres were flown but not used in compilation of the map.

The final data grid was contoured and plotted at 1:20,000 scale using the automatic contouring program and digital plotting facilities of Dataplotting Services Limited, Toronto.

Airborne survey and digital compilation was carried out by Resource Geophysics and Geochemistry Division, Geological Survey of Canada. The survey operations took place in August 1982, using Beechcraft Queenair 65-B80 aircraft C-FWZG.

The survey data used to compile this map is available in digital form from the Geological Survey of Canada on a cost recovery basis.

Funds for this project were provided jointly by the Geological Survey of Canada and Manitoba Department of Energy and Mines.

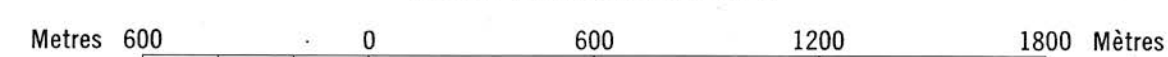
**ISOMAGNETIC LINES (absolute total field)**

- 250 gammas.....
- 50 gammas.....
- 10-20 gammas.....
- 2 gammas.....
- (1 gamma = 1 nanotesla in SI units)
- Magnetic depression.....
- Flight lines.....
- Flight altitude: 150 m above ground level

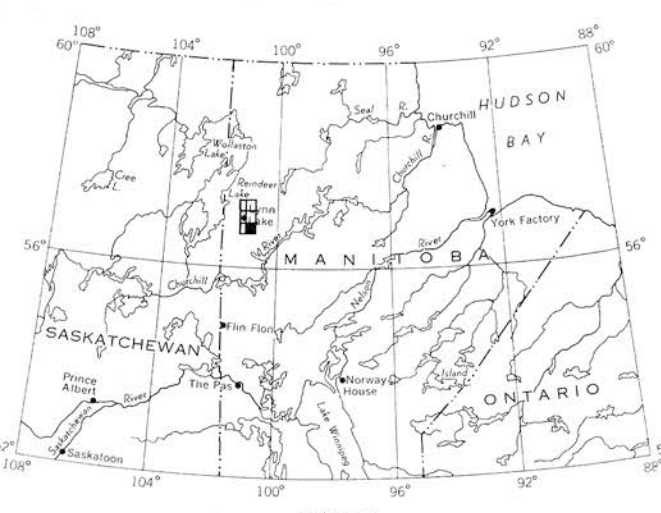


**64 C/10e,f  
MANITOBA  
TOTAL MAGNETIC FIELD**

Scale 1:20 000 Échelle



Universal Transverse Mercator Projection Projection transverse universelle de Mercator  
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