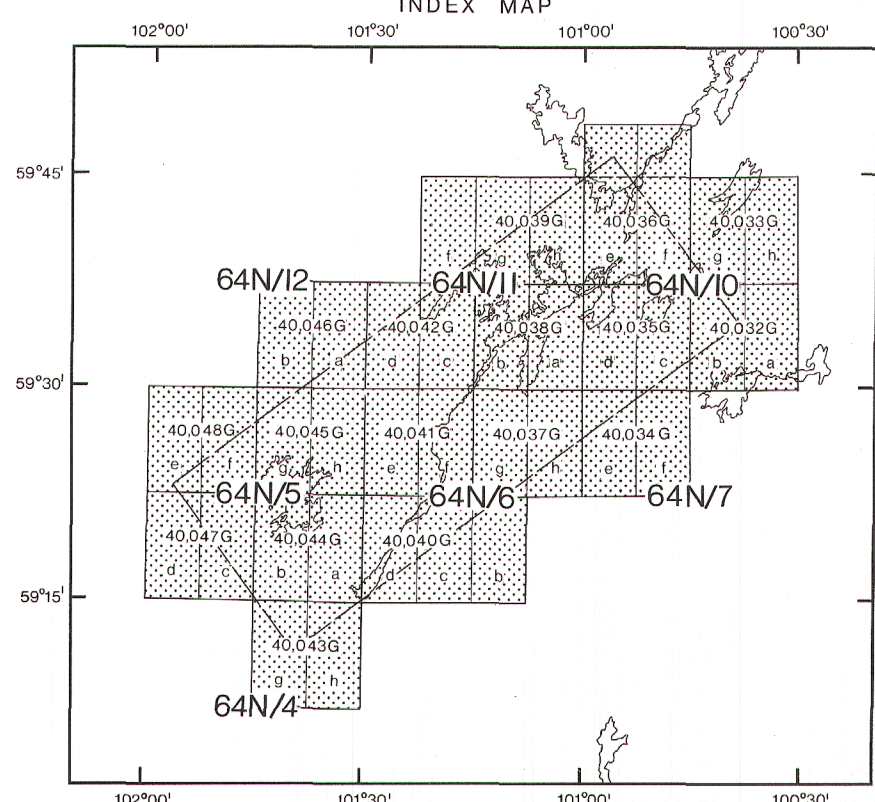


The index map shown below identifies the individual 1:25,000 aeromagnetic maps used in the compilation of this 1:125,000 map.



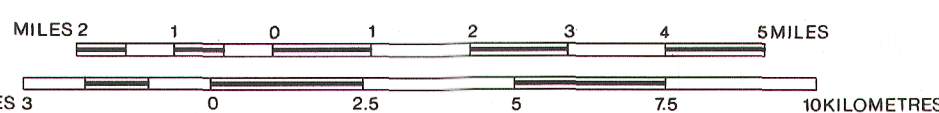
MAGNETIC CONTOUR LINES

+ 5 gammas/metre.....	~~~~~
+ 1 gammas/metre.....	~~~~~
+ 0.25 gammas/metre.....	~~~~~
- 5 gammas/metre.....	~~~~~
- 1 gammas/metre.....	~~~~~
- 0.25 gammas/metre.....	~~~~~
0 gamma = 1 nanotesla (in SI units)	~~~~~
Flight altitude: 150m above ground level	

MAP 45,003 G

KASMERE LAKE 64 N MANITOBA

SCALE 1:125,000



This map has been compiled from digitally-recorded high-sensitivity aeromagnetic data obtained by two self-orienting telluric-tape magnetometers installed in twin tail booms mounted on the GSC Beechcraft 580 aircraft. The magnetometers are vertically separated by a distance of 0.9 metres with each measuring the total magnetic field to a resolution of 0.02 gammas.

Flight altitude was 150 m above ground at 300 m average flight line spacing. Double control lines were flown at an average spacing of 12 kilometres.

The vertical gradient values, which approximate closely to the first vertical derivative of the earth's total field, are obtained by dividing the difference between the total field readings of the two magnetometers by their vertical separation.

The vertical gradient data was filtered with a digital operator to remove low-frequency noise. The vertical gradient data from the control lines was not used in the compilation of the map. The data was edited, compiled, leveled and gradient values for contouring interpolated onto a square grid 0.25 on grid spacing at the published 1:25,000 map scale) by automatic computer process. The final data grid was contoured and plotted using the automatic contouring program and digital plotter facilities of Datapointing Services Ltd. 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.

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 and September of 1977 using Beechcraft Queenair 65-080 aircraft CP-W22.

The topography for this map was reproduced from 1:250,000 topographic map sheets, published by the Department of Energy, Mines and Resources, Ottawa.

Copies of this map may be obtained from the Mineral Resources Division, Manitoba Department of Mines, Resources and Environmental Management, Winnipeg, or from the Geological Survey of Canada, Ottawa.

KASMERE LAKE
64 N
MANITOBA