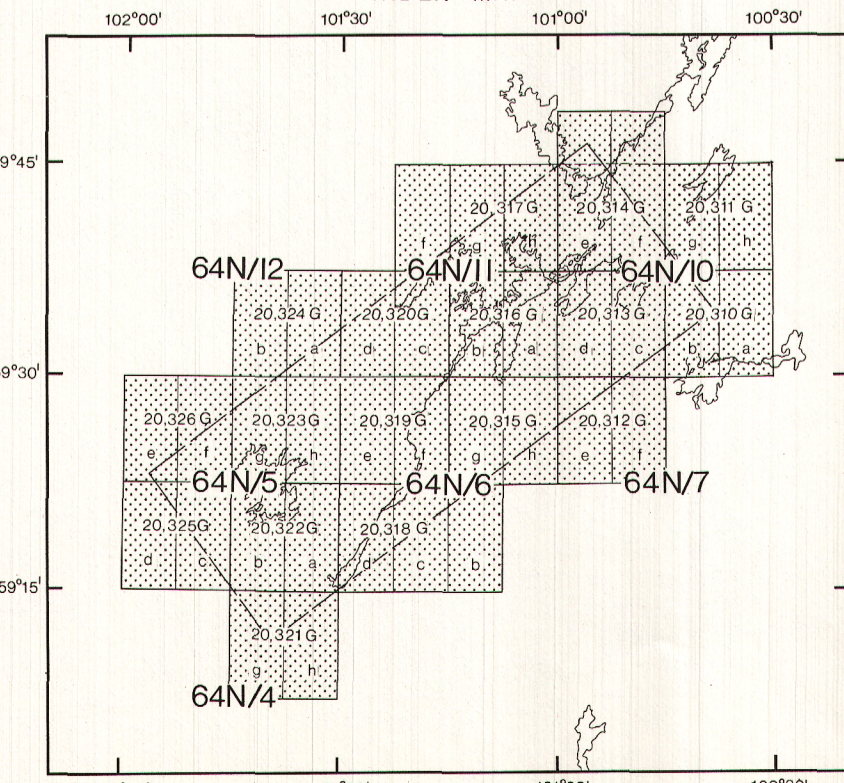
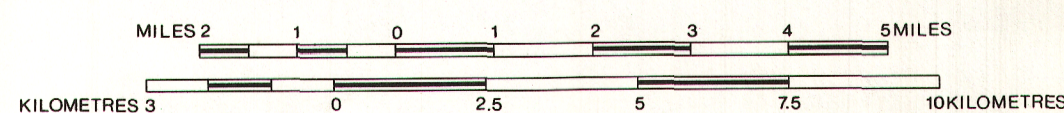


The index map shown below identifies the individual 1:25,000 aeromagnetic maps used in the compilation of this 1:125,000 map.



MAP 30,009 G  
**KASMERE LAKE**  
**64 N**  
MANITOBA

SCALE 1:125,000



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

PUBLISHED 1979

This map was compiled from digitally recorded aeromagnetic survey data obtained using an incoherent induction vapour magnetometer which measured the total field with a resolution of 0.2 gammas. Flight altitude was 150 m above ground at 300 m average flight line spacing. Double control lines were used to ensure accuracy.

The data was edited, compiled, leveled and gamma values for contouring interpolated on a square grid (25 m grid spacing at the published 1:25,000 map scale) by computer processes.

The leveling process employed the two components of the double control line and the short segments of traverse which connected them where they were not exactly coincident. This data was used to minimize and distribute non-geological contributions from the total magnetic field profile along the control line. The corrected contour lines were used to level the traverse lines by a method of minimal sum-total adjustment.

The final data grid was contoured and plotted using the automatic LID-1 contouring program and digital plotting facilities of Outfitting Services Corporation, Ottawa.

The topographic 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 1977 using Beechcraft Queenair 65-580 aircraft CF-W220.

No correction has been made for the regional gradient of the earth's magnetic field.

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

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. 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.