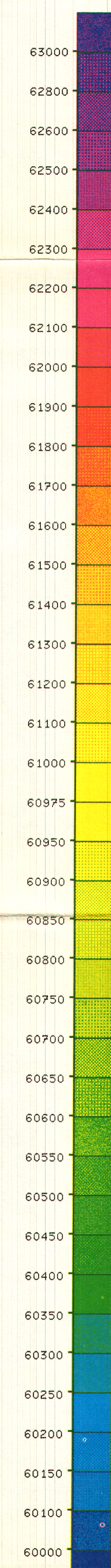
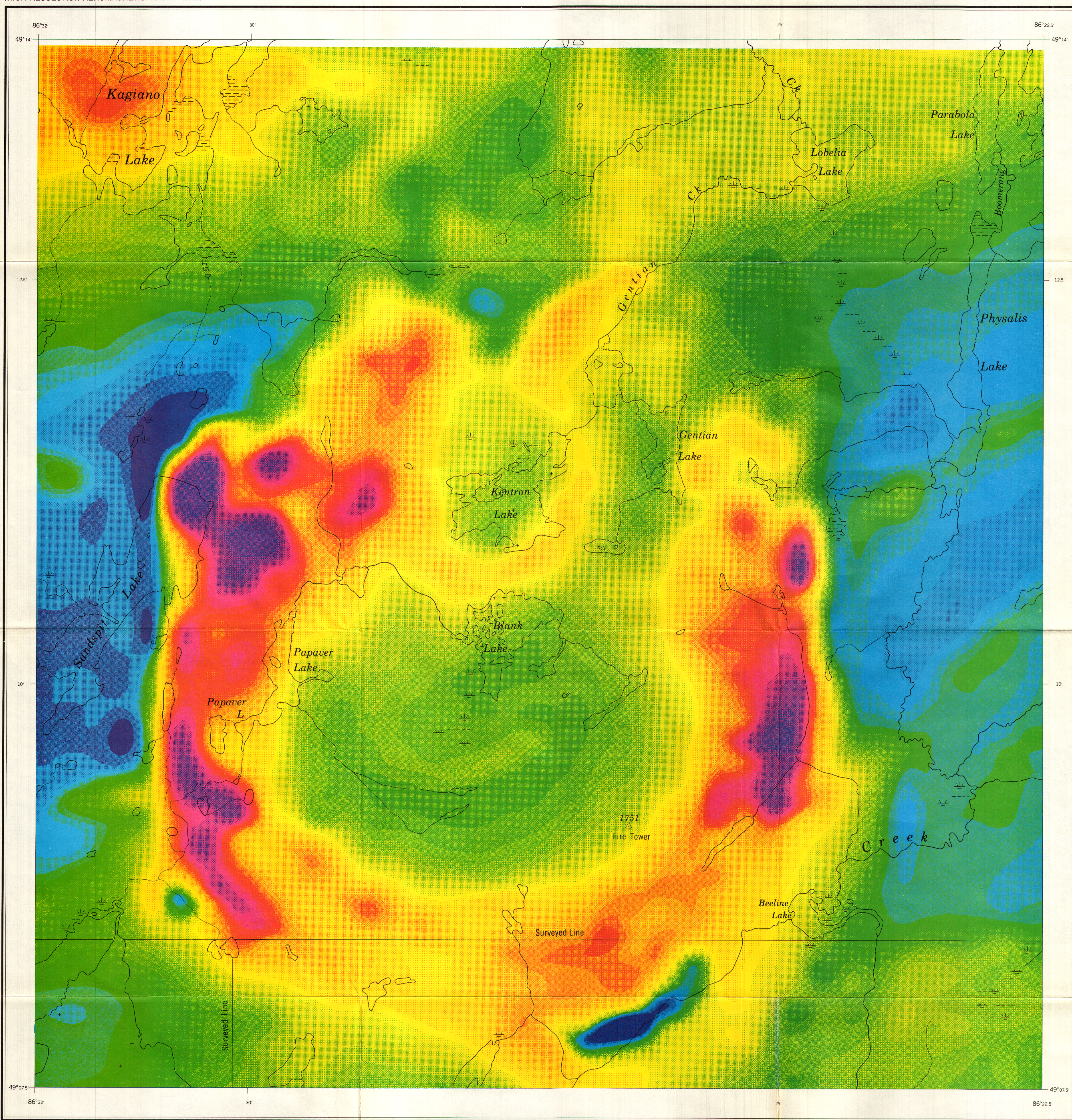




GEOLOGICAL SURVEY OF CANADA  
DEPARTMENT OF ENERGY, MINES AND RESOURCES

EXPERIMENTAL COLOUR COMPILATION  
(HIGH RESOLUTION AEROMAGNETIC TOTAL FIELD)



GAMMAS

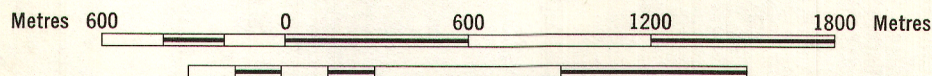
Copies of this map may be obtained from the Geological Survey of Canada, 601 Booth Street, Ottawa, Ontario K1A 0E8

Printed by the Surveys and Mapping Branch, 1980

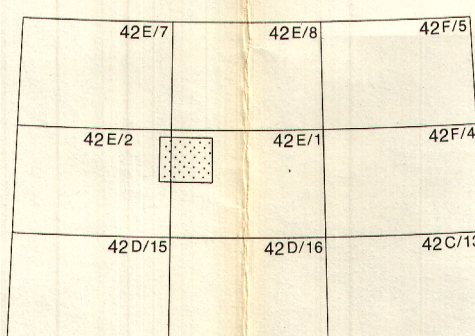
MAP C20, 239G (EXPERIMENTAL)

**KILLALA LAKE**  
ONTARIO

Scale 1:25,000

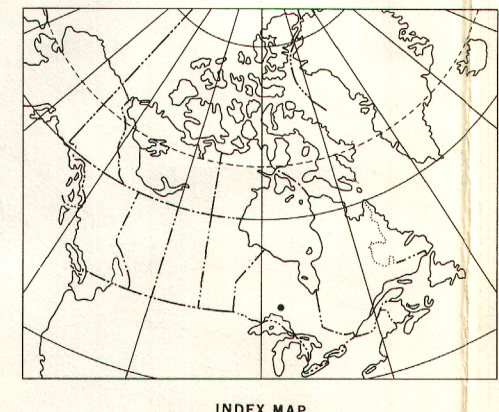


Universal Transverse Mercator Projection  
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This map was compiled from digitally-recorded aeromagnetic survey data obtained using an inboard rubidium vapour magnetometer which measured the total field with a resolution of 0.02 gamma. Flight altitude was 150 m above ground at 300 m average flight line spacing. Double control lines were flown at an average spacing of 12 kilometers. The data was edited, compiled and levelled by computer processes. The levelling 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 control lines were used to level the traverse lines by a method of minimal sum-total adjustment. Airborne survey and digital compilation was carried out by Resource Geophysics and Geochemistry Division, Geological Survey of Canada. The survey operations took place in November 1978 using Beechcraft Queenair 65-580 aircraft C-FWZG. 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 topographical map sheets, published by the Department of Energy, Mines and Resources, Ottawa.

**EXPERIMENTAL COLOUR MAP**  
This map was made by fully computer automated techniques. Aeromagnetic digital data values were interpolated at the nodes of a regular grid covering the survey area. Each grid cell was 0.8 cm square. A colour code was assigned to each cell according to the aeromagnetic value within the cell. (See colour scale at right). The data matrix was output on an APPLICON colour jet plotter to produce a colour field map identical to the one above. To facilitate colour printing a colour separation was made automatically with the plotter to give the yellow, cyan and magenta components of the map on separate sheets. This type of map has less resolution than the usual 1:25,000 scale aeromagnetic contour maps. It does however provide a better depiction of the overall amplitude distribution and regional variation within the survey area. The Geological Survey of Canada would appreciate your comments concerning the merits of this type of compilation as compared to the photo reduction composites. Please address your comments to: The Director General, Geological Survey of Canada (Experimental Aeromagnetic Colour Composites) 601 Booth Street, Ottawa, Ontario, K1A 0E8 Canada



MAP C20, 239G (EXPERIMENTAL)  
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