

Gamma-ray Spectrometric Data

The airborne gamma-ray measurements were made with an ESRAM gamma-ray spectrometer using four 102 x 102 x 406 mm NaI(Tl) crystals. The main detector array consisted of twelve crystals (total volume 50.4 litres), two crystals (total volume 8.4 litres), and the main array, were used to detect variations in background radiation caused by changes in the natural uranium, thorium and potassium levels in the crust. The spectrometer consists of a 4096 channel gamma-ray spectrometer with 1024 channels per crystal, and a 4096 channel gamma-ray spectrometer with 1024 channels per crystal, and a 4096 channel gamma-ray spectrometer with 1024 channels per crystal. The spectrometer was calibrated for energy and efficiency using a 60Co and 137Cs source. The spectrometer was calibrated for energy and efficiency using a 60Co and 137Cs source. The spectrometer was calibrated for energy and efficiency using a 60Co and 137Cs source.

Magnetic Data

The magnetic field was sampled 10 times per second using a split-beam cesium vapour magnetometer (sensitivity = 0.005 nT) rigidly mounted to the aircraft. Differences in magnetic values at the intersections of control and traverse lines were compared daily to obtain a mutually levelled set of flight line magnetic data. The levelled values were then interpolated to a 100 m grid. The International Geomagnetic Reference Field (IGRF) defined at the average GPS altitude for the year 2006.75 was then removed. Removal of the IGRF, representing the magnetic field of the Earth's core, produces a residual component related essentially to magnetizations within the Earth's crust.

Data Availability

Digital versions of this map, corresponding digital profile and gridded data, and similar data for adjacent aeromagnetic and gamma-ray spectrometric surveys can be downloaded at no charge from the Geospatial Data Repository at <http://hgw1.gsc.ca>. The same products are also available for free from the Geospatial Data Centre, Geological Survey of Canada, 615 Booth Street, Ottawa, Ontario, K1A 0E9. Telephone: (613) 993-5326, email: info@geospatial.gsc.ca

References/References

Hood, P.J. (1965). Gradient measurements in aeromagnetic surveying. *Geophysics*, 30, 891-902.

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Authors: Coyle M., Dumont, R., Potvin, J., Carson, J.M., Buckle, J.L., Shives, R.B.K., and Harvey, B.J.A.

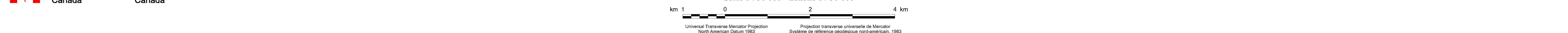
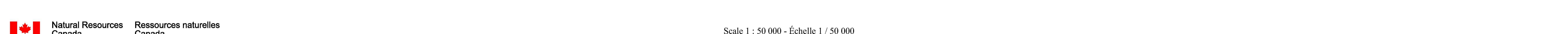
Data acquisition, compilation and map production by Sander Geophysics Limited, Ottawa, Ontario. Contract and project management by the Geological Survey of Canada, Ottawa, Ontario.

Auteurs: Coyle M., Dumont, R., Potvin, J., Carson, J.M., Buckle, J.L., Shives, R.B.K., et Harvey, B.J.A.

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TERNARY RADIOELEMENT IMAGE
L'IMAGE TERNAIRE DE RADIOÉLÉMENT

Scale 1 : 50 000 - Échelle 1 / 50 000



PLANIMETRIC SYMBOLS	SYMBOLES PLANIMÉTRIQUES
Topographic contour	Courbes de niveau
Drainage	Terrain inondé
Wellhead	Aire d'exploitation pétrolière
Mining Area	Aire d'exploitation minière
Pipeline	Pipeline
Power Line	Ligne de haute tension
Road	Chemin
Trail	Chemier
Flight Line	Ligne de vol

