



Gamma-ray Spectrometric Data

The airborne gamma-ray spectrometric survey of the Bonaparte Lake area, British Columbia, was completed by Sander Geophysics Limited. The survey was flown from September 17th to October 20th, 2006, using a Boeing Stearman aircraft. The nominal traverse and control line spacings were, respectively, 400 m and 2500 m, and the aircraft flew at a nominal terrain clearance of 125 m at an air speed of 220 km/h. Over areas that are not covered by the traverse line, the aircraft flew at a nominal altitude of 200 m. The flight track was recorded following post-flight differential corrections to raw data recorded by a Global Positioning System. The survey was flown on a pre-determined flight surface to minimize differences in magnetic values due to magnetic anomalies of the Earth's crust.

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 computer-analyzed to obtain a mutually consistent set of magnetic field data. The inverted values were then interpolated to a 100 m grid. The magnetic field (IGRF) is defined as the average IGRF available for the year 2006. To assist in the removal of the IGRF, representing the magnetic field of the Earth's core, a residual component related essentially to magnetizations within the Earth's crust.

Data Availability

Digital versions of this map, comprising digital profile and gridded data, and similar data for adjacent aeromagnetic and gamma-ray spectrometric surveys can be obtained, at no charge, from Natural Resources Canada's Data Repository at the following URL: <http://data.nrc.ca>. The same products are also available for free from the Geophysical Data Centre, Geological Survey of Canada, 615 Booth Street, Ottawa, Ontario, K1A 0E8. Telephone: (613) 993-5326; email: geodata@nrc.ca.

References/Références

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

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

GEOPHYSICAL SERIES / SÉRIE GÉOPHYSIQUE
 GREEN LAKE 92 P/6
 BRITISH COLUMBIA / COLOMBIE-BRITANNIQUE
 BONAPARTE LAKE WEST GEOPHYSICAL SURVEY, BRITISH COLUMBIA
 LEVÉ GÉOPHYSIQUE BONAPARTE LAKE WEST, COLOMBIE-BRITANNIQUE

TGR **IGC**
 Program Programme

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

Geoscience BC

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Scale 1 : 50 000 - Échelle 1 / 50 000

Canada

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MAP
2007-4-4

2007

GEOCENTRIC BC

Location Map - Carte de Localisation

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