

GEOPHYSICAL SERIES / SÉRIE GÉOPHYSIQUE
DEKAY LAKE (WEST) 92 P/10
BRITISH COLUMBIA / COLOMBIE-BRITANNIQUE
BONAPARTE LAKE WEST GEOPHYSICAL SURVEY, BRITISH COLUMBIA
LEVÉ GÉOPHYSIQUE BONAPARTE LAKE WEST, COLOMBIE-BRITANNIQUE
THORIUM

Scale 1 : 50 000 - Échelle 1 / 50 000

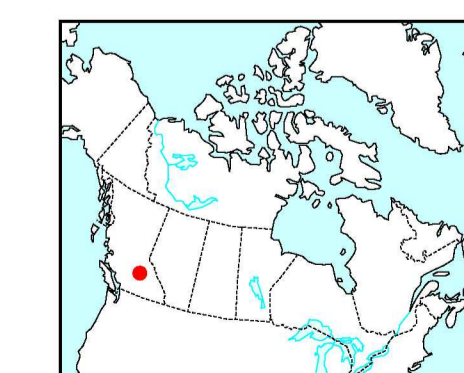


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Buckle, J.L., Shives, R.B.K., and Harvey, B.J.A.

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.

L'acquisition, la compilation des données ainsi que la production des cartes furent
effectuées par Sander Geophysics Limited, Ottawa, Ontario.
La gestion et la supervision du projet furent effectuées
par la Commission géologique du Canada, Ottawa, Ontario.



A quantitative gamma-ray spectrometric and aeromagnetic airborne geophysical survey of the Bonaparte Lake area, British Columbia, was completed by Sander Geophysics Limited. The survey was flown from September 19 to October 2, 2006, using an airborne gamma-ray spectrometer (GR20) and a cesium magnetometer (MAGNETO). The gamma-ray spectrometer was configured with a 102 x 102 x 400 mm NaI(Tl) crystal. The cesium magnetometer was configured with a cesium magnetometer (MAGNETO) and a cesium magnetometer (MAGNETO). The survey data was processed using a custom software package (SANDER) and the results are shown on this map.

Gamma-ray Spectrometric Data

The airborne gamma-ray measurements were made with an EggenRAD gamma-ray spectrometer using fourteen 102 x 102 x 400 mm NaI(Tl) crystals. The main detector array consisted of twelve crystals (four 50 x 4 lines), shielded by the main array, were used to detect variations in background radiation caused by the potassium, uranium, and thorium in the soil. The other two crystals (two 50 x 4 lines), shielded by the main array, were used to detect variations in background radiation caused by the potassium, uranium, and thorium in the soil. The energy windows used to measure potassium, uranium, and thorium are, respectively, 1370 to 1570 keV, 1660 to 1860 keV, and 2410 to 2810 keV.

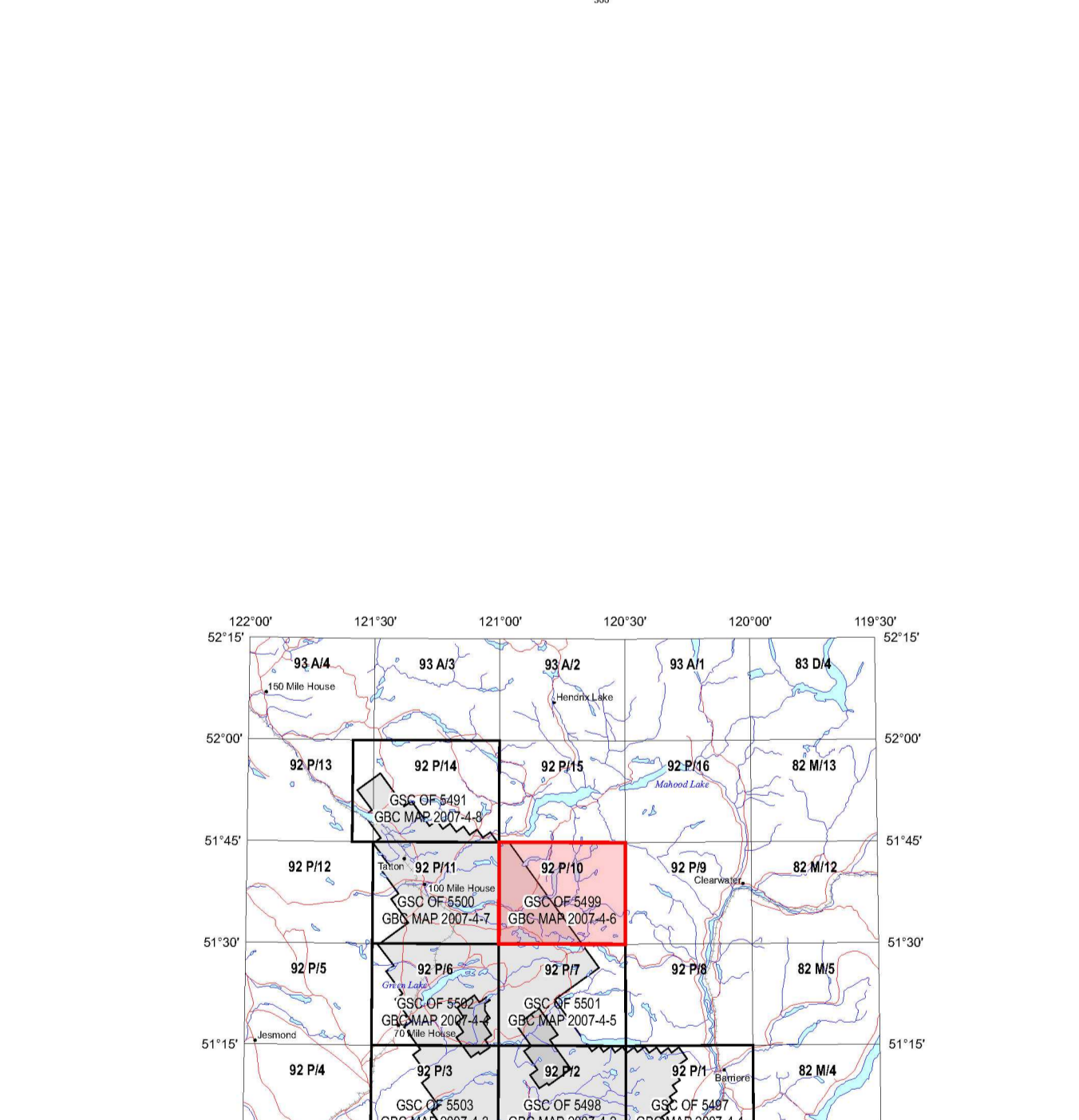
Magnetic Data

The magnetic field was sampled 10 times per second using a cesium magnetometer (sensitivity = 0.005 nT) rigidly mounted to the aircraft. Differences in magnetic values at the intersections of control and traverse lines were computed to obtain a mutually consistent set of flight-line magnetic data. The magnetic values were then interpolated to a 100 m grid. The International Geomagnetic Reference Field (IGRF) for the year 2005.75 was used as a reference.

Data Availability

Digital versions of this map, comprising digital profiles and gridded data, and similar data for adjacent aeromagnetic and gamma-ray spectrometric surveys can be obtained from the Geological Survey of Canada, 615 Booth Street, Ottawa, Ontario, K1A 0E8, Telephone: (613) 993-5326, email: sdpo@sgm.nrc.ca

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



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Recommended citation:
Coyle M., Dumont, R., Potvin, J., Carson, J.M., Buckle, J.L., Shives, R.B.K., and Harvey, B.J.A.
2007. Geophysical series: Dekay Lake (West) 92 P/10, British Columbia:
Bonaparte Lake West Geophysical Survey, British Columbia.
Geological Survey of Canada, Open File 5499.
Geoscience BC Map 2007-4-6,
scale 1:50 000.