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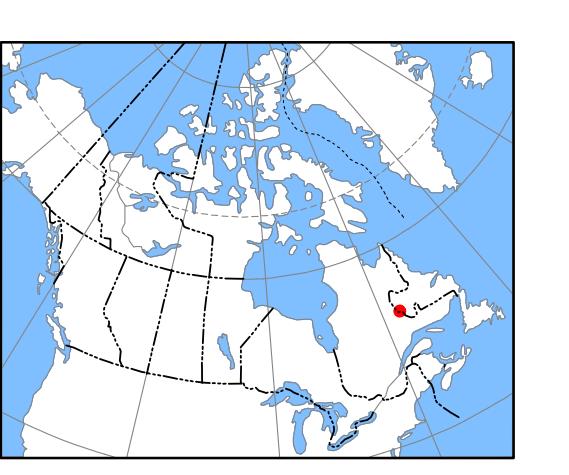
SÉRIE DES CARTES GÉOPHYSIQUES / GEOPHYSICAL SERIES
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LEVÉ AÉROMAGNÉTIQUE DE LA RÉGION DU LAC SHABOGAMO
SHABOGAMO LAKE AEROMAGNETIC SURVEY

COMPOSANTE RÉSIDUELLE DU CHAMP MAGNÉTIQUE TOTAL
RESIDUAL TOTAL MAGNETIC FIELD

Auteurs : M. Coyle et F. Kiss
Acquisition et compilation des données et production des cartes
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Gestion et supervision du projet
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Data acquisition and compilation and map production by
Geo Data Solutions GDS Inc., Laval, Quebec.
Contract and project management by the
Geological Survey of Canada, Ottawa, Ontario.



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2 - Dérivée première verticale du champ magnétique First Vertical Derivative of the Magnetic Field	2 - Dérivée première verticale du champ magnétique First Vertical Derivative of the Magnetic Field

Composante résiduelle du champ magnétique total

Cette carte de la composante résiduelle du champ magnétique total a été compilée à partir de données acquises lors d'un survol aéromagnétique effectué par la Commission géologique du Canada et Oracle Geoscience International pendant la période du 14 février au 21 mars 2011. Les données ont été recueillies au moyen d'un magnetomètre à vapeur de césum à faisceau partagé (sensibilité de 0,005 nT) installé dans la partie avant de l'avion. Le vol a été effectué à une altitude moyenne de 800 m au-dessus du sol de 80 m. Les lignes de vol étaient orientées E-O, perpendiculairement aux lignes de contrôle. La trajectoire de vol a été déterminée à l'aide d'un GPS et les positions des points de contrôles ont été obtenues par GPS et par inspection d'images du sol enregistrées au moyen d'une caméra vidéo installée à la verticale. Le levé a été effectué suivant une surface de vol préétablie afin de minimiser les erreurs des données de vol et pour assurer la cohérence entre les données de vol et celles de terrain. Ces différences ont été analysées par ordinateur afin d'obtenir un jeu de données nivelees sur le champ magnétique le long de la trajectoire de vol. La carte a été créée à l'aide d'un jeu de données nivellées à 750 m.

Le champ géomagnétique international de référence (IGRF) défini à une altitude de 768,3 m pour l'année 2011/2012 a été soustrait. La soustraction du IGRF, qui représente le champ magnétique du noyau terrestre, fournit la composante résiduelle du champ magnétique total.

On peut télécharger gratuitement des versions numériques de cette carte depuis la section MIRAGE de l'Institut de données géoscientifiques de Ressources naturelles Canada à l'adresse Web <http://edg.nrcan.gc.ca/mirage/>. Les données numériques correspondantes en formats profil et modèle ainsi que des fichiers de métadonnées peuvent également être téléchargés à partir de l'Institut de données géoscientifiques de Ressources naturelles Canada à l'adresse Web <http://edg.nrcan.gc.ca/mirage/>. On peut se procurer les mêmes produits moyennés des tracés, en s'adressant au Centre des ressources minérales et géologiques de la Commission géologique du Canada, 615, rue Booth, Ottawa (Ontario) K1A 0E9. Tél. : (613) 995-5326, courriel : info@cgag.nrcan.gc.ca.

Cette carte et les données géophysiques numériques peuvent être aussi obtenues à partir de la section «Produits et services en ligne» sur le site internet du ministère des Ressources naturelles et de la Faune du Québec à l'adresse Web http://www.mrr.gov.qc.ca/mines/online_products_and_services.html.

Toutes les versions numériques de cette carte peuvent être téléchargées gratuitement à partir du site internet du ministère des Ressources naturelles et Terre-Neuve-et-Labrador, à la page des données Online (http://www.nr.gov.ca/mines/geoscience/publications/latest_pubs.html) et à la page de Geoscience Online (<http://gso.geosur.ca>).

Residual Total Magnetic Field

This map of the residual total magnetic field was compiled from data acquired during an aeromagnetic survey carried out by Geo Data Solutions GDS Inc. and Oracle Geoscience International, during the period of February 14 to March 21, 2011. The data were collected using a split-beam cesium vapour magnetometer installed in the forward fuselage of the aircraft. The nominal altitude was 800 m above the ground. The nominal traverse and control line spacing were respectively, 300 m and 1 800 m, and the aircraft flew at a minimum terrain clearance of 80 m. Traverse lines were oriented E-W with orthogonal control lines. The flight path was determined by a GPS and the positions of control points were obtained by GPS and inspection of ground images recorded by a vertically-mounted video camera. The survey was flown on a pre-determined surface of flight to minimize errors in the data due to the aircraft's motion and traverse lines. These differences were computer-analyzed to obtain a mutually leveled set of flightline magnetic data. The leveled values were then interpolated to a 750 m grid. The International Geomagnetic Reference Field (IGRF) for 2011/2012 was then removed. Removal of the IGRF, which represents the magnetic field of the Earth's core, provides a magnetic field essentially to the magnetizations within the Earth's crust.

Digital versions of this map are provided, at no charge, from Natural Resources Canada's Geoscience Data Grid (MIRAGE) at <http://edg.nrcan.gc.ca/mirage/>. Corresponding digital gridded data as well as similar data for adjacent airborne geophysical surveys are available from the Natural Resources Canada's Geoscience Data Repository for Aeromagnetic data at <http://edg.nrcan.gc.ca/mirage/>. These products are available for download from the Canadian Geological Survey of Canada, 615 Booth Street, Ottawa, Ontario K1A 0E9. Telephone: (613) 995-5326, email: info@cgag.nrcan.gc.ca.

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SYMBOLS PLANIMÉTRIQUES / PLANIMETRIC SYMBOLS

Curbe de niveau	Topographic Contour
Limite de territoire	Territory Boundary
Drainage	Drainage
Chemin	Road
Ligne de vol	Flight line

LIGNES ISOMAGNETIQUES / ISOMAGNETIC LINES

1000 nT	1000 nT
250	250
50 nT	50 nT
10 nT	10 nT
Dépression Magnétique	Magnetic low

