



Residual Total Magnetic Field

This map of the residual total magnetic field was compiled from data acquired during an aerogeomagnetic survey carried out by Oracle Geoscience International and Goldak Airborne Surveys during the period of February and March 2009. The data were recorded using a combination of three different aircraft (see www.oraclegeo.com) and three different survey lines three Piper Navajo aircraft. The nominal traverse and control line spacings were respectively, 200 m and 1500 m, and the aircraft flew at a nominal terrain clearance of 90 m. The data were processed using the *Geosoft* (see www.geosoft.com) software package to generate the following post-flight differential corrections to the raw Global Positioning System (GPS) data and inspection of ground images recorded by a vertically-mounted video camera. The survey was flown on a pre-determined flight surface to minimize differences in magnetic field intensity due to altitude. The data were then processed using the *Geosoft* software package to obtain a mutually leveled set of flight-line magnetic data. The leveled values were then interpolated to a 50 m grid. The International Geomagnetic Reference Field (IGRF) defined at an altitude of 612.6 m for March 1st 2009 was then removed. Residual magnetic field values were calculated by subtracting the IGRF residual values from the component related essentially to magnetizations within the Earth's crust.

Digital versions of this map, corresponding digital profile and gridded data as well as similar data for adjacent airborne geophysical surveys can be downloaded, at no charge, from Natural Resources Canada's Geoscience Data Repository (MIRAGE) at <http://gdr.nrcan.gc.ca/aeromag> and from the ministère des Ressources naturelles et de la Faune du Québec Internet web site "Online Products and Services" at <http://www.mrfm.gouv.qc.ca/english/products-services/mines.sp>. The same products are also available, for a fee, from the Geophysical Data Centre, Geological Survey of Canada, 615 Booth Street, Ottawa, Ontario, K1A 0E9, Telephone: (613) 995-5326, email info@agc.nrcan.gc.ca.

Digital versions of this map can also be downloaded, at no charge, from the Geological Survey of Newfoundland and Labrador web site's Open File page at <http://www.nr.gov.nl.ca/mines&en/geosurvey/publications/openfiles/> and GeoScience Online page at <http://gis.geosurvey.gov.nl.ca/>.

Composante résiduelle du champ magnétique total

[illegible]

Les versions numériques de cette carte ainsi que les données géophysiques en formats « profil » et « maille » peuvent être téléchargées gratuitement depuis la section sur MIRAGE de l'Entrepôt de données géoscientifiques de Ressources naturelles Canada à l'adresse Web <http://edg.mcan.gc.ca/aeromag> ainsi qu'au ministère des Ressources naturelles et de la Faune du Québec : <http://www.mrfm.gov.qc.ca/products-services/mines.jsp>. Les mêmes produits sont aussi disponibles, moyennant des frais, au Centre de données géophysiques de la Commission géologique du Canada au 615, rue Booth, Ottawa (Ontario) K1A 0E9, Téléphone : (613) 995-5326, courriel : info@edg.mcan.gc.ca

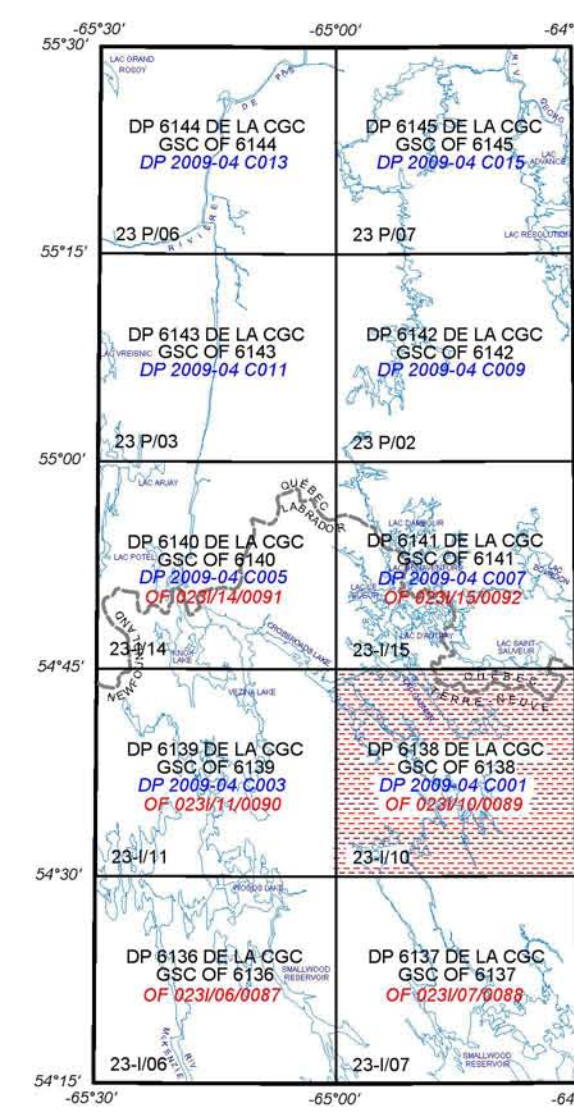
Les versions numériques de cette carte peuvent être téléchargées gratuitement à partir du site internet des dossiers publics du Geological Survey of Newfoundland and Labrador (<http://www.nr.gov.nl.ca/mines/en/geosurvey/publications/openfiles/>) et sur la page de GeoScience OnLine <http://gis.geosurv.gov.nl.ca/>.

PLANIMETRIC SYMBOLS

Topographic Contour
Territory Boundary
Drainage
Road
Flight line

SYMBOLES PLANIMÉTRIQUE

..... Courbe de niveau
 Limite de territoire
 Drainage
 Chemin
 Ligne de



NATIONAL TOPOGRAPHICAL SYSTEM REFERENCE AND GEOPHYSICAL MAP INDEX
SYSTÈME NATIONAL DE RÉFÉRENCE CARTOGRAPHIQUE ET INDEX DES CARTES GÉOPHYSIQUES

SCHEFFERVILLE AEROMAGNETIC SURVEY
LEVÉ AÉROMAGNÉTIQUE DE SCHEFFERVILLE

Recommended citation:
 Dumont, R. 2009.
 Geophysical Series, NTS 23-10,
 Schellenberg Aeromagnetic Survey,
 Geological Survey of Canada, Open File 6138;
 Newfoundland and Labrador Department of Natural Resources, Geological Survey, Open File 02310/0059;
 Ministère des Ressources naturelles et de la Faune du Québec, DP 2009-04 C001;
 scale 1:50,000.

Notation bibliographique consistante :
 Dumont, R. 2009.
 Série des cartes géophysiques, NSRG 23-10,
 Levé aéromagnétique de Schellenberg,
 Commission géologique du Canada, Dossier public 6138;
 Newfoundland and Labrador Department of Natural Resources, Geological Survey, Open File 02310/0059;
 Ministère des Ressources naturelles et de la Faune du Québec, DP 2009-04 C001;
 échelle 1:50 000.

This aeromagnetic survey and the production of this map were funded by the Geomapping for Energy and Minerals Program of the Earth Sciences Sector, Natural Resources Canada.

Ce levé aéromagnétique et la production de cette carte ont été financés par le programme de la Géocartographie de l'énergie et des minéraux du Secteur des sciences de la Terre, Ressources naturelles Canada.

GSC OPEN FILE 6138 / DOSSIER PUBLIC 6138 DE LA CGC
NEWFOUNDLAND AND LABRADOR DEPARTMENT OF NATURAL RESOURCES, GEOLOGICAL SURVEY OPEN FILE 0231/10/0085
MINISTÈRE DES RESSOURCES NATURELLES ET DE LA FAUNE DU QUÉBEC, DP 2009-04 C001

GEOPHYSICAL SERIES / SÉRIE DES CARTES GÉOPHYSIQUES
NTS 23-1/10 / SNRC 23-1/10

SCHEFFERVILLE AEROMAGNETIC SURVEY
LEVÉ AÉROMAGNÉTIQUE DE SCHEFFERVILLE

RESIDUAL TOTAL MAGNETIC FIELD
COMPOSANTE RÉSIDUELLE DU CHAMP MAGNÉTIQUE TOTAL

Scale 1: 50 000- Échelle 1/50 000



Universal Transverse Mercator Projection
North American Datum 1983

Digital Topographic Data provided by Geomatics Canada, Natural Resources Canada
Données topographiques numériques de Géomatique Canada, Ressources naturelles Canada

Topographic Contour Interval: 10 metres
Équidistance des courbes topographiques : 10 mètres



MAP LOCATION - LOCALISATION DE LA CARTE

2 SHEET SUMMARY / SOMMAIRE DES FEUILLES

SHEET SUMMARY / SOMMAIRE DES FEUILLETS	
Sheet Feuille	MAP / CARTE
1 -	Residual Total Magnetic Field Composante résiduelle du champ magnétique total
2 -	Second Vertical Derivative of the Magnetic Field