

- SYMBOLS DES ANOMALIES ELECTROMAGNETIQUES / ELECTROMAGNETIC ANOMALY SYMBOLS**
- Superfocales / Surficial
 - Anthropique / Cultural
 - Canaux / Channels
- SYMBOLS PLANIMÉTRIQUES / PLANIMETRIC SYMBOLS**
- Routes / Routes
 - Chemins de fer / Railway
 - Ligne de transport d'énergie / Power Line
 - Drainage / Drainage

Introduction
 Many of the base metal deposits discovered in the Abitibi Mining Camp during the 1950s were found using geophysical and geophysical methods available at that time as well as geological prospecting. Limitations of these older methods resulted in the discovery of only those mineral deposits within a few metres of the surface. The discovery of the MEGATEM system in 2000 by the MEGATEM airborne electromagnetic system near Matagami, Noranda Exploration (now Xstrata Zinc Canada) and its partner Mines d'Or Virginia Inc. and Noranda Exploration carried out MEGATEM surveys flown by Fugro Airborne Surveys (FAS) in the Abitibi greenstone belt. The objective was to search for new base metal deposits to the east of the Abitibi Mining Camp. The MEGATEM system is a controlled source, time-domain, airborne electromagnetic system. It consists of a transmitter and receiver coils mounted on a small aircraft. The transmitter coil is oriented vertically and the receiver coil is oriented horizontally. The system is operated from a small aircraft. The system is operated from a small aircraft. The system is operated from a small aircraft.

Survey characteristics
 These surveys were carried out by FAS between July 2001 and August 2003. The data were acquired using a MEGATEM time domain EM system. The system transmits a signal from a horizontal loop, oriented north-south, and measures the response of buried conductors using three coils. The EM receiver measures dB/dt directly and the secondary magnetic field is numerically integrated.

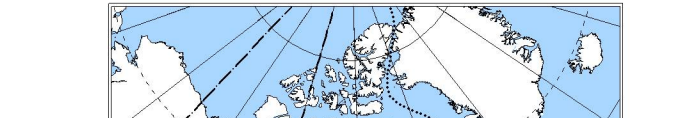
Data Completion
 All survey data were processed and compiled by FAS. The Geological Survey of Canada (GSC) merged the grid of individual blocks into a seamless image of each theme for this map presentation. These data have not been altered or re-processed by the GSC in any way.

Electromagnetic System
 Electromagnetic data were acquired using the MEGATEM time domain EM system. The system transmits a signal from a horizontal loop, oriented north-south, and measures the response of buried conductors using three coils. The EM receiver measures dB/dt directly and the secondary magnetic field is numerically integrated.

EM Anomaly Presentation
 Due to map scale constraints in this presentation, only the anomaly picks are located by symbols based on channel response. For more detailed quantitative information on the anomalies presented on these maps, the user is referred to the anomaly listing report associated with the digital data set for each survey area. The electromagnetic anomaly picks used in the presentation are those provided by FAS. An anomaly selection was provided by Xstrata Zinc Canada in order to identify only the EM anomalies useful for base metal exploration. Both anomaly listings are available digitally.

Tableau des paramètres des levés / Table of Survey Parameters

Zone Area	Nom du levé / Survey name	Kilomètres Total / Total kilometres	Espacement des lignes de contrôle / Control Line Spacing (km)	Tx-Rx H (m)	Tx-Rx V (m)	Dirée de l'acquisition / Acquisition Time (hr)	Temps net / Net Time (hr)	Horizont d'origine / Origin (m)
A	Rousseau Ouest	2 602	4	131	56	2000	3255	1,8
B	Matagami Ouest	4 686	4	131	56	2000	3255	1,8
C	Chapais	3 054	4	131	56	2000	3255	1,56
D	Joubert	5 095	4	130	46	2000	3255	1,8
E	Labrieville	4 427	4	131	56	2000	3255	1,8
F	Normand Est	11 176	4	131	56	2000	3255	1,56
G	Scorsone	4 427	4	131	56	2000	3255	1,8
H	Corneil Nord	2 260	4	131	56	2000	3255	1,56
I	Corneil Sud	8 327	5	131	56	2000	3255	1,75
J	Conings	7 162	4	131	56	2000	3255	1,75
K	Langlois	6 983	4	131	56	2000	3255	1,75
L	Langlois	5 963	5	131	56	2000	3255	1,75
M	Amos Ouest	2 814	4	131	56	2000	3255	1,8
N	Amos Est	8 866	4	131	56	2000	3255	1,7
O	Amos Est	2 038	4	131	56	2000	3255	1,56
P	Val-d'Or	8 739	4	131	56	2000	3255	1,75



Le ministère des Ressources naturelles et de la Faune du Québec (MRNF) et Ressources naturelles Canada (NRCan) remercient sincèrement Xstrata Zinc Canada et Mines Virginia Inc. d'avoir prouvé ces données au Plan cadre du MRNF et au projet Abitibi du programme de Traités géophysiques et géochimiques de la Région de la Terre de la Faune du Québec (GSC) du Secteur des sciences de la Terre de NRCan permettant ainsi la publication de cette carte.

The Ministry of Natural Resources and the Environment of Québec (MRNF) and Natural Resources Canada (NRCan) wish to sincerely thank Xstrata Zinc Canada and Mines Virginia Inc. for providing these data to the Corep Plan of the MRNF and to the Abitibi Project of the Targeted Geoscience Initiative (TGI) Program of the Earth Sciences Sector of NRCan, which have made the publication of this map possible.

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Authors: Geological Survey of Canada and Ministère des Ressources naturelles et de la Faune du Québec

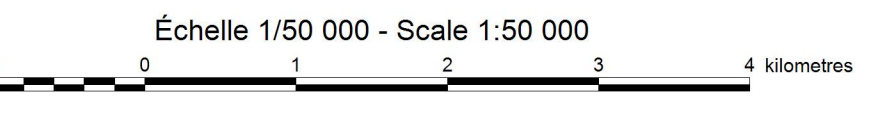


DOSSIER PUBLIC 5968 DE LA CGC / GSC OPEN FILE 5968
 DP 2008-29 DU MRNF

SÉRIE DES CARTES GÉOPHYSIQUES / GEOPHYSICAL SERIES
SNRC 32 F/2 / NTS 32 F/2

LEVÉS MEGATEM™ II DE LA CEINTURE DE ROCHES VERTES DE L'ABITIBI, QUÉBEC
MEGATEM™ II SURVEYS OF THE ABITIBI GREENSTONE BELT, QUEBEC

CONDUCTANCE APPARENTE
APPARENT CONDUCTANCE



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GEOLOGICAL SURVEY OF CANADA / COMMISSION GÉOLOGIQUE DU CANADA

2009

SHEET 3 OF 4 / FEUILLET 3 DE 4

Ministère des Ressources naturelles et de la Faune du Québec
 DP 2008-29 C003

Les versions numériques de ces cartes ainsi que les données géophysiques en formats « profil » et « maille » et les listes d'anomalies peuvent être téléchargées gratuitement depuis le site de la Commission géologique du Canada (CGC) et du Centre de données géophysiques et géochimiques de Ressources naturelles Canada. La carte et les données numériques sont aussi disponibles, moyennant des frais, au Centre de données géophysiques de la Commission géologique du Canada au 615, rue Booth, Ottawa (Ontario) K1A 0S9. Téléphone: (613) 995-5326, courriel: info@cgsc.nrcan.gc.ca.

Cette carte et les données géophysiques numériques peuvent être aussi obtenues à partir de « Produits et services en ligne » sur le site Internet du ministère des Ressources naturelles et de la Faune du Québec: <http://www.mrnf.gouv.qc.ca/produits-services/lines.jsp>.

Digital versions of this map and the corresponding digital line data, gridded geophysical data and anomaly listings by individual survey areas may be downloaded, at no charge, from Natural Resources Canada's Geoscience Data Repository for Geophysical and Geochemical Data at <http://gdr.nrcan.gc.ca/external>. The map and digital data are also available, for a fee, from the Geophysical Data Centre, Geological Survey of Canada, 615 Booth Street, Ottawa, Ontario, K1A 0S9. Telephone: (613) 995-5326, email: info@cgsc.nrcan.gc.ca.

This map and the digital geophysical data may also be obtained from the ministère des Ressources naturelles et de la Faune du Québec Internet web site "Online Products and Services" at <http://www.mrnf.gouv.qc.ca/produits-services/lines.jsp>.

Digital topographic data provided by Geomatics Canada, Natural Resources Canada

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

Zone Area	Nom du levé / Survey name	Kilomètres Total / Total kilometres	Espacement des lignes de contrôle / Control Line Spacing (km)	Tx-Rx H (m)	Tx-Rx V (m)	Dirée de l'acquisition / Acquisition Time (hr)	Temps net / Net Time (hr)	Horizont d'origine / Origin (m)
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 Série des cartes géophysiques, SNRC 32 F/2, Levés MEGATEM™ II de la ceinture de roches vertes de l'Abitibi, Québec.
 Commission géologique du Canada, Dossier public 5968.
 Ministère des Ressources naturelles et de la Faune du Québec, DP 2008-29.
 Échelle 1:50 000.

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 Geological Survey of Canada and Ministère des Ressources naturelles et de la Faune du Québec, 2008.
 Geophysical Series, NTS 32 F/2, MEGATEM™ II Surveys of the Abitibi Greenstone Belt, Québec.
 Geological Survey of Canada, DP 2008-29.
 Ministère des Ressources naturelles et de la Faune du Québec, DP 2008-29.
 scale: 1:50 000.