

This map was compiled from data acquired in the Stewart River Area, Yukon, during the second phase of airborne geophysical survey (gamma-ray spectrometry, magnetometry) carried out by Fugro under contract to the Geological Survey of Canada. Funding for the survey was provided by Natural Resources Canada, targeted Geoscience Initiative. The Phase 2 survey was completed between July 18, 2001 and September 28, 2001, using an Aerospaciale ASS3002 helicopter registration C-GZTA.

The gamma-ray spectrometry data were recorded at a 1.0 second sample rate into 200 channel main and radon spectra using an Explorer GR800 spectrometry system. The volume of NaI in the main detector comprising the system was 23.3 cubic metres (100 x 100 x 23.3 m). Counts from the main detector were recorded in five windows corresponding to Potassium (410 - 2610 keV), Uranium (180 - 1800 keV), Thorium (1370 - 1070 keV), total (1000 - 2810 keV) and cosmic radiation (3000 to 4000 keV). Counts from the radon detector were recorded in the radon window (180 - 1800 keV). The radon detector system was calibrated monthly between August 1999 and August 1999/00. After removal of the background, the data were corrected for spectral interferences, changes in temperature, pressure and detector from the 1.0 second survey resolution. The data were then converted to standard concentration units and ratios and then interpolated to a 125 m square grid. The binary image grid was created from the binary concentration grids.

The aeromagnetic data were recorded at a 0.1 second sample rate using a 0.01 s/11 sensitivity split beam cesium vapour magnetometer suspended 23 m below the helicopter. The control line and sensor line magnetic data were corrected for variations in the magnetic field using the ground station magnetometer data. After editing the survey data, the intersections of traverse and control lines were established and the magnetic values were compared against the ground station magnetometer. Ground Positioning System data were used to compute the International Geomagnetic Reference Field data (IGRF 2007), which was subtracted from the total magnetic field data to produce the residual magnetic field. The resulting residual magnetic field values were interpolated to a 125 m square grid. The East vertical derivative of the magnetic field was computed from the grid of the residual magnetic field.

All gridded data are presented as colour internal maps combined with digital topographic files provided by Geomatics Canada.

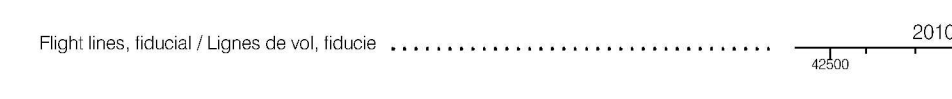
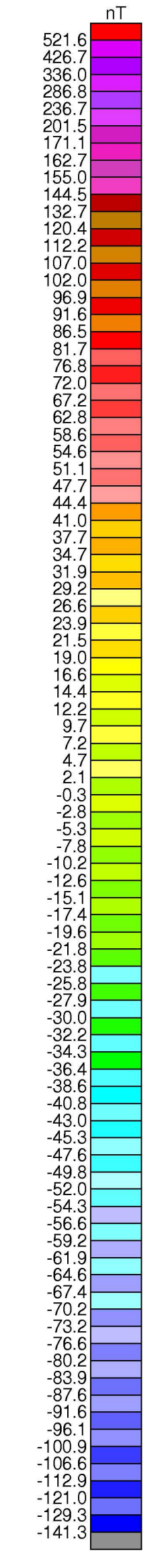
Cette carte a été compilée des données obtenues dans le région de Stewart River, Yukon, pendant la deuxième phase d'un levé géophysique aéroporté (spectrométrie des rayons gamma et aéromagnétique) effectué par Fugro sous un contrat à la Commission géologique du Canada. La subvention pour ce levé a été fournie par l'Initiative géoscientifique ciblée (IGCI) de Ressources Naturelles Canada. La deuxième phase d'opérations ont été réalisées du 18 juillet au 28 septembre, 2001, en utilisant un hélicoptère Aerospaciale ASS3002 (immatriculé C-GZTA).

The recording of gamma-ray data was done using a 1.0 second sample rate using a 200 channel main and radon spectra using an Explorer GR800 spectrometry system. The volume of NaI in the main detector comprising the system was 23.3 cubic metres (100 x 100 x 23.3 m). Counts from the main detector were recorded in five windows corresponding to Potassium (410 - 2610 keV), Uranium (180 - 1800 keV), Thorium (1370 - 1070 keV), total (1000 - 2810 keV) and cosmic radiation (3000 to 4000 keV). Counts from the radon detector were recorded in the radon window (180 - 1800 keV). The radon detector system was calibrated monthly between August 1999 and August 1999/00. After removal of the background, the data were corrected for spectral interferences, changes in temperature, pressure and detector from the 1.0 second survey resolution. The data were then converted to standard concentration units and ratios and then interpolated to a 125 m square grid. The binary image grid was created from the binary concentration grids.

The aeromagnetic data were recorded at a 0.1 second sample rate using a 0.01 s/11 sensitivity split beam cesium vapour magnetometer suspended 23 m below the helicopter. The control line and sensor line magnetic data were corrected for variations in the magnetic field using the ground station magnetometer data. After editing the survey data, the intersections of traverse and control lines were established and the magnetic values were compared against the ground station magnetometer. Ground Positioning System data were used to compute the International Geomagnetic Reference Field data (IGRF 2007), which was subtracted from the total magnetic field data to produce the residual magnetic field. The resulting residual magnetic field values were interpolated to a 125 m square grid. The East vertical derivative of the magnetic field was computed from the grid of the residual magnetic field.

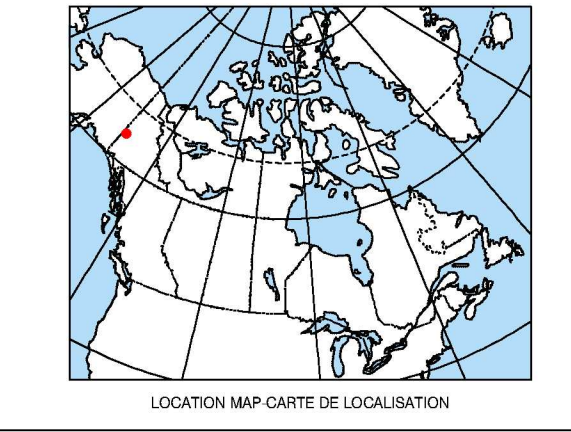
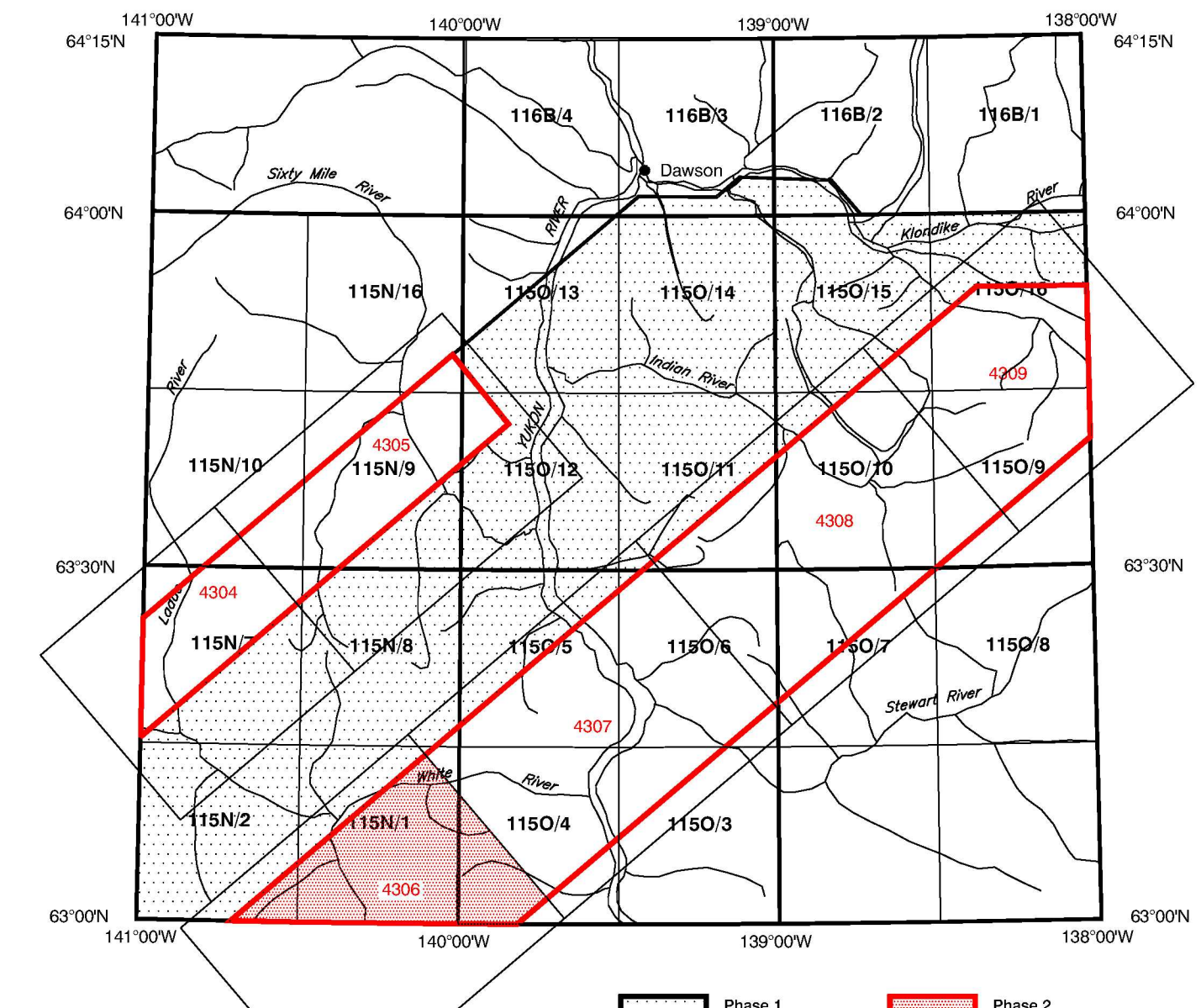
All gridded data are presented as colour internal maps combined with digital topographic files provided by Geomatics Canada.

Tous les données ont été présentées comme des cartes d'ouvrages en couleurs combinées avec les fichiers de topographie numérique fournis par Geomatics Canada.



Recommandation d'achat:
Bonne, B.L., Carter, J.M., Ford, K.L., Higgins, P.J., Graham, S., Abbott, G., 2002
Geological Survey of Canada Open File 4306,
Exploration and Geoscience Information Division, Yukon, Indian and Northern Affairs Canada Open File 2002-12,
Stewart River Area - 115N/1,
Scale: 1:50 000.

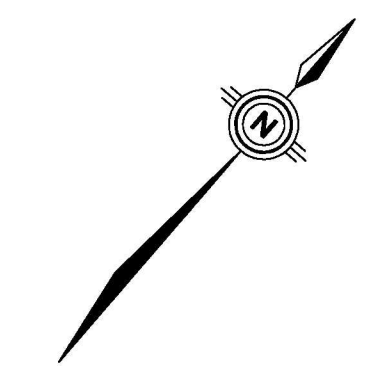
Nationales Géographiques:
Bonne, B.L., Carter, J.M., Ford, K.L., Higgins, P.J., Graham, S., Abbott, G., 2002
Commission géologique du Canada Dossier Public 4306,
Ministère des Ressources Naturelles Canada, Yukon, Indian and Northern Affairs Canada Dossier Public 2002-12,
Carte des anomalies magnétiques (Champ résiduel total),
Stewart River Area - 115N/1,
Échelle: 1:50 000.



MAGNETIC ANOMALY MAP (RESIDUAL TOTAL FIELD)
CARTE DES ANOMALIES MAGNÉTIQUES (CHAMP RÉSIDUEL TOTAL)

STEWART RIVER AREA
YUKON TERRITORY / TERRITOIRE DU YUKON

Scale 1:50 000 - Échelle 1:50 000
Kilometres / Kilomètres



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DOSSIER PUBLIC
4306
2002
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DOSSIER PUBLIC
2002-12
2002

MAGNETIC ANOMALY MAP (RESIDUAL TOTAL FIELD)
CARTE DES ANOMALIES MAGNÉTIQUES (CHAMP RÉSIDUEL TOTAL)

STEWART RIVER AREA
YUKON TERRITORY / TERRITOIRE DU YUKON
115 N/1