



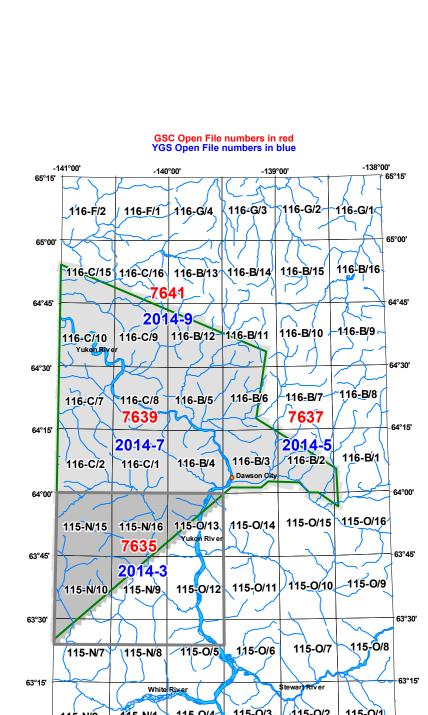
NAD83 / UTM Zone 7N Universal Transverse Mercator Projection North American Datum 1983 ©Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources Canada, 2014 Digital topographic data from Natural Resources Canada

This map of the first vertical derivative of the magnetic field was derived from data acquired during an aeromagnetic survey carried out by Goldak Airborne Surveys from February 17 to March 21, 2014. The data were recorded using split-beam cesium vapour magnetometers (sensitivity = 0.005 nT) mounted in each of the tail booms of two Piper split-beam cesium vapour magnetometers (sensitivity = 0.005 n I) mounted in each of the tail booms of two Piper Navajo aircraft (C-GJBB and C-GJBG). The nominal traverse and control line spacings were, respectively, 400 m and 2400 m and the aircraft flew at a nominal terrain clearance of 125 m. Traverse lines were oriented at N10°E with orthogonal control lines. The flight path was recovered following post-flight differential corrections to the raw Global Navigational Satellite System (GNSS) 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 values at the interest control and traverse lines. These differences were computer-analysed to obtain a mutually levelled set of flight-line magnetic data. The levelled values were then interpolated to a 100 m grid. The International Geomagnetic Reference Field (IGRF) defined at the average GPS altitude of 1192.3 m for the year 2014.17 was then

The first vertical derivative of the magnetic field is the rate of change of the magnetic field in the vertical direction. Computation of the first vertical derivative removes long-wavelength features of the magnetic field and significantly improves the resolution of closely spaced and superposed anomalies. A property of first vertical derivative maps is the coincidence of the zero-value contour with vertical contacts at high magnetic latitudes (Hood, 1965).

A digital version of this map can be downloaded, at no charge, from Natural Resources Canada's Geoscience Data Repository (MIRAGE) at http://apps1.gdr.nrcan.gc.ca/mirage/mirage_index_e.php. Corresponding digital profile and gridded data as well as similar data for adjacent airborne geophysical surveys are available from Natural Resources

Copies of this map may also be obtained from the Yukon Geological Survey, Energy, Mines and Resources, Government of Yukon, P.O. Box 2703 (K102), Whitehorse, Yukon, Y1A 2C6. Telephone: (867) 667-3201, email:



AEROMAGNETIC SURVEY OF THE DAWSON AREA

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