Natural Resources Ressources naturelles
Canada Canada RESIDUAL TOTAL MAGNETIC FIELD Residual Total Magnetic Field This map of the residual total magnetic field was derived from data acquired during an aeromagnetic survey carried out by Geo Data Solutions GDS Inc. from March 10, 2017 to March 28, 2017. The data were recorded using a split-beam cesium vapour magnetometer (sensitivity = 0.005 nT) mounted in the tail boom of a Beechcraft KingAir 100 aircraft (C-FLRB). The nominal traverse and control line spacings were, respectively, 400 m and 2400 m, and the aircraft flew at a nominal terrain clearance of 150 m. Traverse lines were oriented N90°E with orthogonal control lines. The flight path was recovered 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 values at the intersections of 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 410 m for the year 2017.213 was then removed. Removal of the IGRF, representing the magnetic field of the Earth's core, produces a residual component related almost entirely to magnetizations within the Earth's crust. This publication is available for free download through GEOSCAN (<a href="http://geoscan.nrcan.gc.ca/">http://geoscan.nrcan.gc.ca/</a>). Corresponding digital profile and gridded data as well as similar data for adjacent airborne geophysical surveys are available from Natural Resources Canada's Geoscience Data Repository for Aeromagnetic data at <a href="http://gdr.agg.nrcan.gc.ca/index e.html">http://gdr.agg.nrcan.gc.ca/index e.html</a>. The same products are also available, for a fee, from the Geophysical Data Centre, Geological Survey of Canada, 601 Booth Street, Ottawa, Ontario K1A 0E8. Telephone: (613) 995-5326, email: <a href="mailto:inforde@agg.nrcan.gc.ca/">inforde@agg.nrcan.gc.ca/</a> infogdc@agg.nrcan.gc.ca. 2219 900 735 620 520 440 375 325 NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND GEOPHYSICAL MAP INDEX 66°30'
460000
465000 66°30' AEROMAGNETIC SURVEY OF THE OVERBY-DUGGAN AREA -106°00' TOPOGRAPHIC CONTOUR INTERVAL: 30 METRES Publications in this series have not been edited; they are released as submitted by the author. OPEN FILE This aeromagnetic survey and the production of this map were funded by phase 2 of the Geo-mapping for Energy and Minerals (GEM-2) program of the Lands and Minerals Sector, Natural Resources Canada. GEOLOGICAL SURVEY OF CANADA OPEN FILE 8282 DOSSIER PUBLIC Les publications de cette série ne sont pas révisées; elles sont publiées telles que soumises par l'auteur. RESIDUAL TOTAL MAGNETIC FIELD GEOLOGICAL SURVEY OF CANADA 2017 AEROMAGNETIC SURVEY OF THE OVERBY-DUGGAN AREA Author: M. Coyle Data acquisition, data compilation and map production by Geo Data Solutions GDS Inc., Laval, Quebec. Part of NTS 76-I North Contract and project management by the Geological Survey of Canada, Ottawa, Ontario. Cartographic design by A. Sayegh. NUNAVUT Recommended citation: Coyle, M., 2017. https://doi.org/10.4095/304674 Residual total magnetic field, Aeromagnetic Survey of the Overby-Duggan Area, Part of NTS 76-I/North, Nunavut; Geological Survey of Canada, Open File 8282, scale 1:100 000. https://doi.org/10.4095/304674 Scale 1:100 000 MAP LOCATION NAD83 / UTM zone 13N Universal Transverse Mercator Projection North American Datum,1983 © Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017

Digital topographic data from Natural Resources Canada