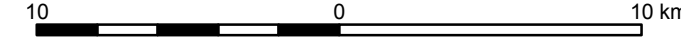


Airborne Magnetic Calculated Second Vertical Derivative Map for Northern Mainland Nova Scotia

M.S. King

Scale 1: 250 000



Halifax, Nova Scotia



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Airborne Magnetic Data Vertical Gradient (Second Derivative)

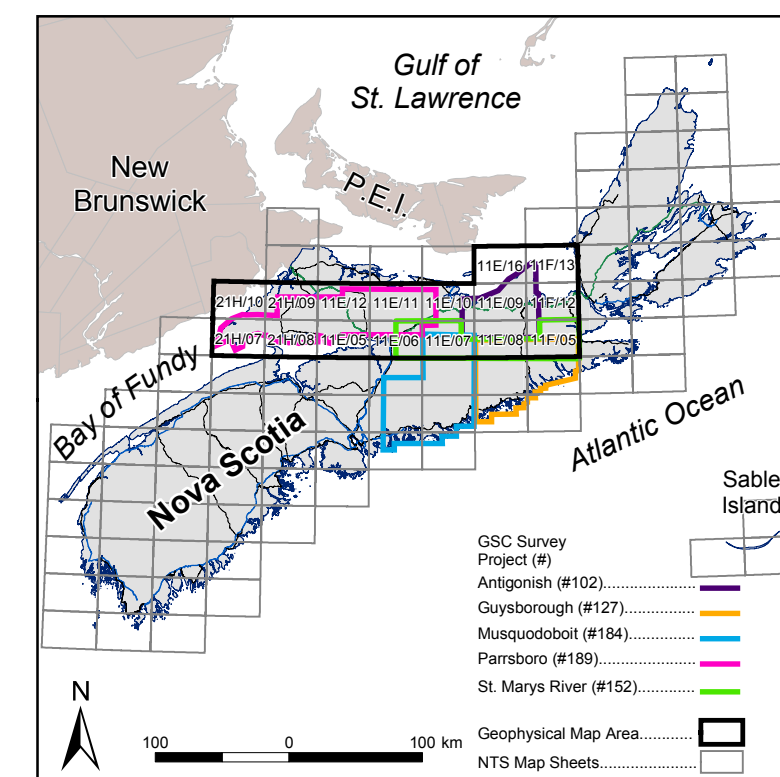
Airborne geophysical data, used to produce this map, were supplied by the Geological Survey of Canada (GSC) - Geophysical Data Centre, 615 Booth St., Ottawa, Ontario K1A 0G9. These magnetic data were digitally acquired as part of the high-resolution Antigonish (GSC Project #103), Guysborough (GSC Project #127), Musquodocui (GSC Project #184) and Parnboro (GSC Project #188) surveys and the regional-scale St. Marys River Survey (GSC Project #152). The data, used to produce this map image, are the calculated second vertical derivative of the levelled and decorrelated measured total field response. Vertical gradient data enhance near-surface magnetic sources at the expense of deeper features. Second vertical derivative data represent shallow (<500 m depth) sources. Zero value gradient contours also correlate closely with the vertical projection of magnetic contacts. The 24-bit colour map image was produced with a 25 m pixel size. Shading was from the south at 35° above the horizon. For complete details please refer to Open File Report by King (2004).

Reference

For more information on this map series, refer to:

King, M. S. 2004. Report on potential field mapping component of the geological mapping of the St. Marys Basin Project, northern mainland Nova Scotia, Phase 2 of the Targeted Geoscience Initiative, Nova Scotia Department of Natural Resources, Mineral Resources Branch, Open File Report ME 2004-4.

Regional Key Map



Map Notes

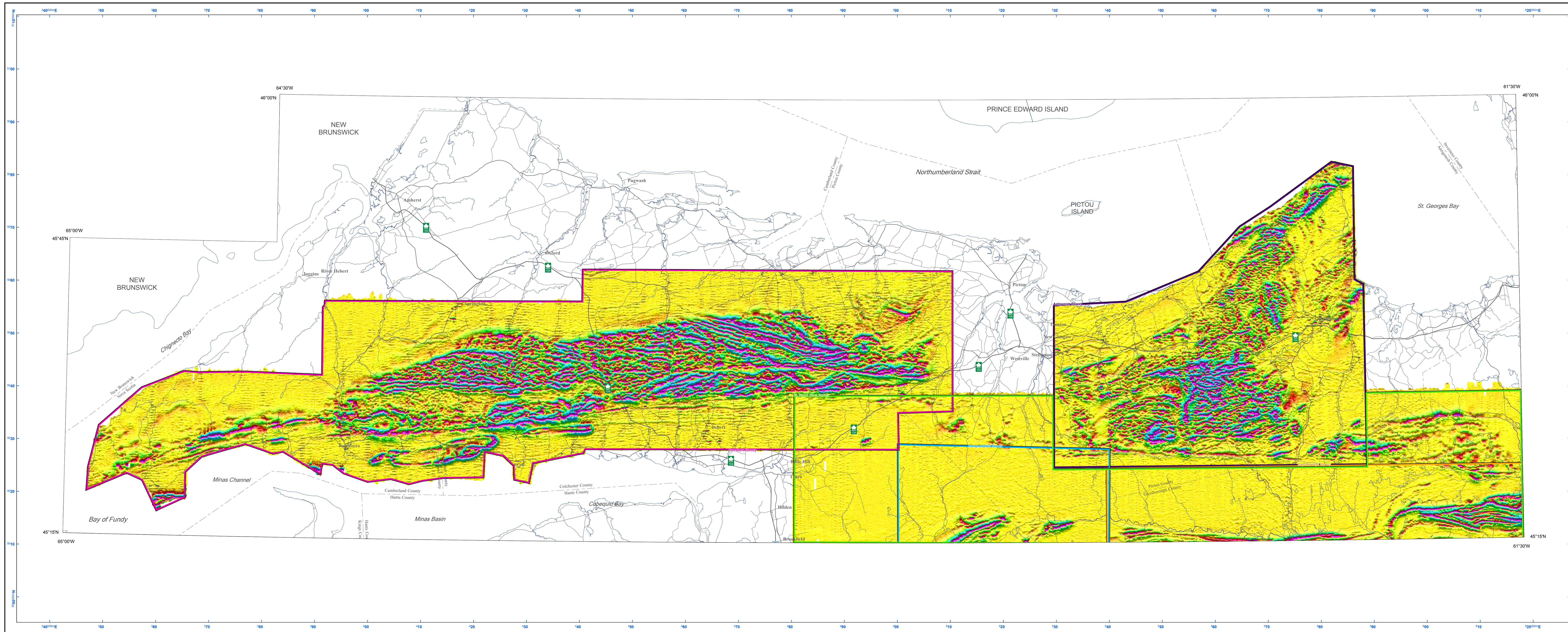
Universal Transverse Mercator Projection (UTM), Zone 20, Central Meridian 63°00' West.
North American Datum (NAD) 1927.
Base and digital data derived from the Nova Scotia Topographic Database (NSTDB). The NSTDB is available from Service Nova Scotia and Municipal Relations (SNSMR), Land Information Services Division (LIS), Nova Scotia Geomatics Centre (NSGC), Amherst, Nova Scotia.
Funded by Natural Resources Canada and Nova Scotia Department of Natural Resources under the Targeted Geoscience Initiative (Phase 2) Project: Geological Mapping and Resource Evaluation in Central Nova Scotia, 2004-2005.
Cartography and reproduction by Nova Scotia Department of Natural Resources, Geoscience Information Services Section, 2004-2005.

Disclaimer

The information on this map may have come from a variety of government and nongovernment sources. The Nova Scotia Department of Natural Resources does not assume any liability for errors that may occur.

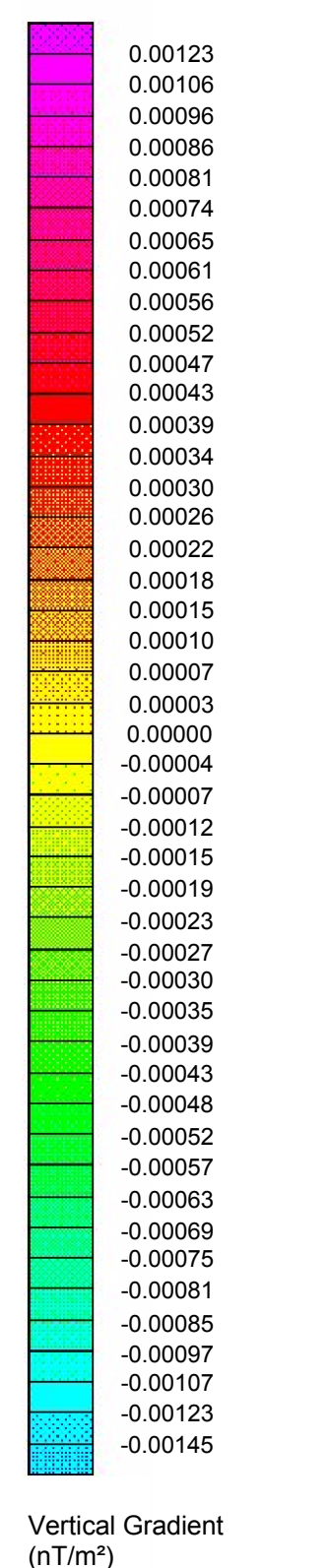
Recommended Citation

King, M.S. 2005. Airborne magnetic calculated second vertical derivative map for northern mainland Nova Scotia; Nova Scotia Department of Natural Resources, Mineral Resources Branch, Open File Map ME 2005-59, scale 1:250 000.



Legend

- 100 Series Highway
- Trans Canada Highway
- Trunk Highway
- Collector Highway
- Hard Road Surface
- Lakes, Rivers, Coastline
- County Boundary



Vertical Gradient (nT/m²)