Nova Scotia Department of Natural Resources
Mineral Resources Branch

Open File Map ME 2005-100

Airborne Total Field VLF-EM (Orthogonal Component) Map for the Cobequid Highlands Area, Nova Scotia

M. S. King

Scale 1:250 000

10 0 10 km

Halifax, Nova Scotia

NOVA SCOTIA Natural Resources

VLF-EM Data
Total Field (Orthogonal Component)

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 0E9. These high-resolution VLF-EM data were digitally acquired as part of the Parrsboro Survey (GSC Project #189). The data, used to produce this map image, are the decorrugated measured total field response using the 'Orthogonal' transmitter. The 'Orthogonal' transmitter for GSC Project #189 is Cutler, Maine. Total field VLF-EM data provide a measure of the internal electrical character (i.e. resistivity/conductivity) of the underlying Quaternary and bedrock geology. VLF-EM data are not processed to the same levels as the associated magnetic data channel and are also subject to different artifacts and biases. For a more complete description please refer to King (2003, 2004). This 24-bit colour map image was produced with a 25 m pixel size. Shading is from the south at 35° above the horizon.

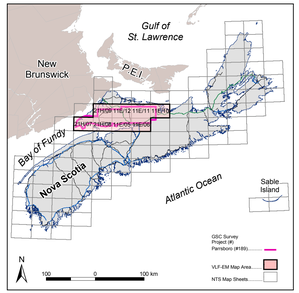
References

For more information on this map series, refer to:

King, M. S. 2003: Report on high-resolution airborne VLF-EM processing and enhancement, Targeted Geoscience Initiative, Cape Breton, Inverness, Richmond and Victoria counties (NTS 11F/14, 11K/02 and 11K/03), south-central Cape Breton Island, Nova Scotia; Nova Scotia Department of Natural Resources, Mineral Resources Branch, Open File Report ME 2003-4.

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.

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Recommended Citation

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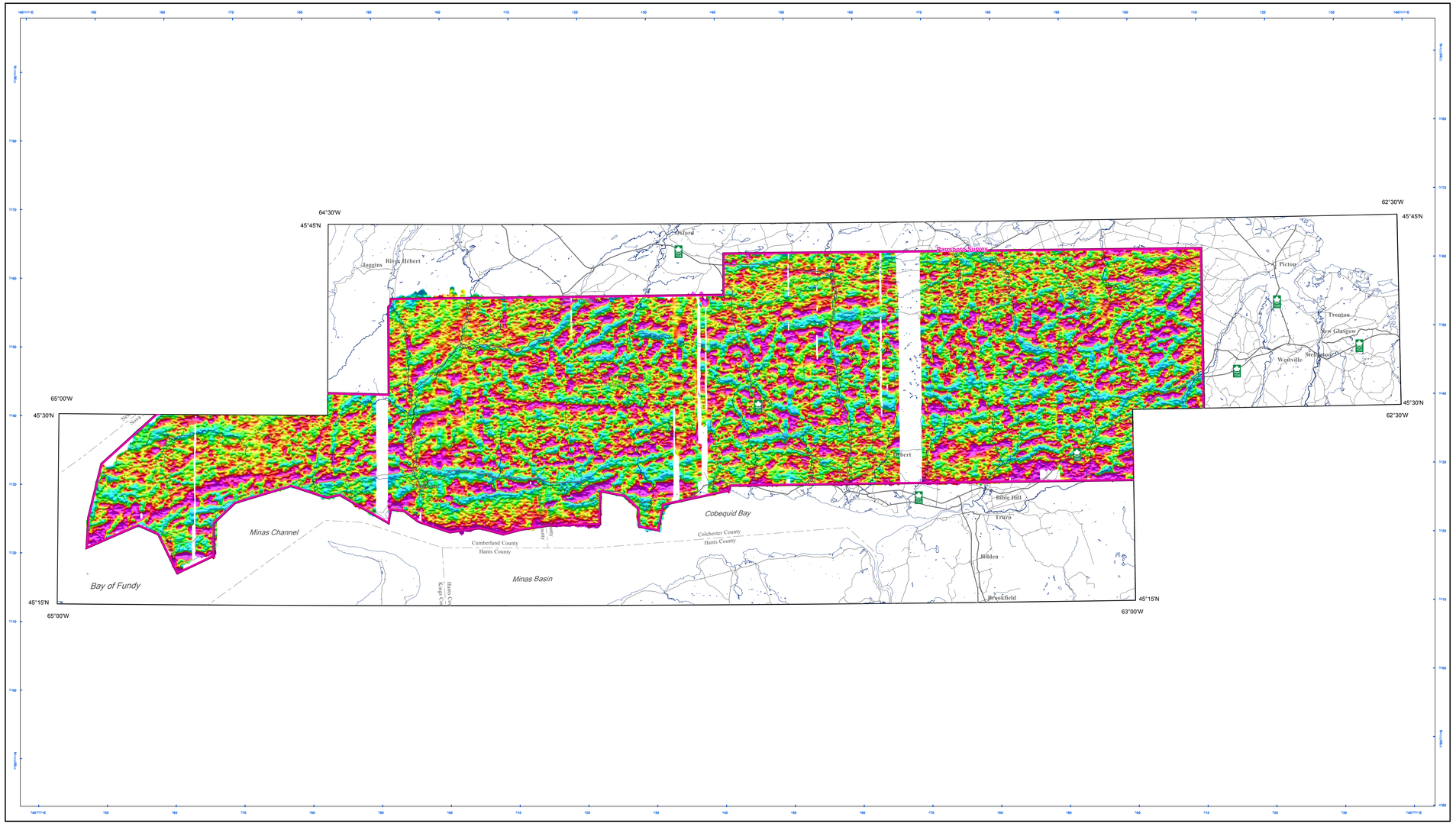

Jun 06, 2005