

This Radioactivity Map of Nova Scotia is one of eight 1:500 000 regional compilation maps that include three elements: (1) a background map of geological features, (2) a map of uranium concentrations, and (3) a map of thorium concentrations. The background map is derived from the Geological Survey of Canada (GSC) and is based on the 1:500 000 scale map of Nova Scotia, published in 1987. The uranium and thorium concentrations are based on data collected from 1987 to 1992. The map is based on the following data sources: (1) airborne gamma-ray spectrometry (AGRS) data collected from 1987 to 1992, (2) ground-based gamma-ray spectrometry (GBRS) data collected from 1987 to 1992, and (3) data from the Geological Survey of Canada (GSC) and the Atomic Energy Control Board (AECB).

REFERENCES

- Brown, J., Carson, J.M., Grant, J.A., and Ford, K.L. 1987. A modified survey, instrument, technique and its application to the South Coast of Newfoundland. Geological Survey of Canada, Paper 87-14.
- Ford, K.L. 1982. Radiometric mapping of parts of the Massachusetts Batholith and Lincoln's complex, Maine. Doctoral Thesis, University of Toronto, Toronto, Ontario, Canada. 110 pp.
- Ford, K.L., Carson, J.M., Grant, J.A., and Holmes, P.B. 1989. Radiometric mapping of the Nova Scotia. Geological Survey of Canada, Map 300005, Scale 1:500 000.
- Ford, K.L., Macdonald, M.A., Peak, P.R., Power, A.J., Ross, L.J., Harris, R.L., Cross, M.C., and Cross, R.M. 1989. Airborne gamma-ray spectrometry and bedrock and surficial geology of the Nova Scotia Plateau. In: Mines and Technical Surveys of Canada 1989, Part A, Report 89-1, Nova Scotia Dept. of Mines and Energy, Halifax, Nova Scotia, Canada. 100 pp.
- Ford, K.L., and O'Neil, G.A. 1989. Airborne gamma-ray spectrometry surveys as an indicator of potential uranium concentration and thorium concentration in the granite rocks of the Magalloway Group of Nova Scotia, Canada. In: Proceedings of the 1989 International Conference on Uranium and Thorium, International Uranium and Thorium Association, London, England, 1989.
- Geological Survey of Canada. 1981. Radiometric Maps of Nova Scotia. Geological Survey of Canada File 2273, Scale 1:500 000.
- O'Neil, G.A., Cross, M.C., and Ford, K.L. 1988. Gamma-ray spectrometry of bedrock and mineral exploration: Case studies from granite rocks of the Nova Scotia Plateau. In: Proceedings of the 1988 International Conference on Uranium and Thorium, International Uranium and Thorium Association, London, England, 1988.

This product includes map data derived from the Nova Scotia Topographic Database (NSTD) in Crown copyright © 2003. Portions of Nova Scotia, used by permission of Service Nova Scotia & Municipal Relations (SNMRL), all rights reserved.

Geophysical compilation by J.M. Carson, P.B. Holmes, K.L. Ford, J.A. Grant, and R.B.K. Sibson.

Digital cartography by J.A.V. Pratt, Earth Sciences Sector Information Division (ESS info).

This map was produced from processed data in accordance with the Canadian Geomatics Quality Management System, Ottawa, registered to the Quality System ISO 9001:2000 standard.

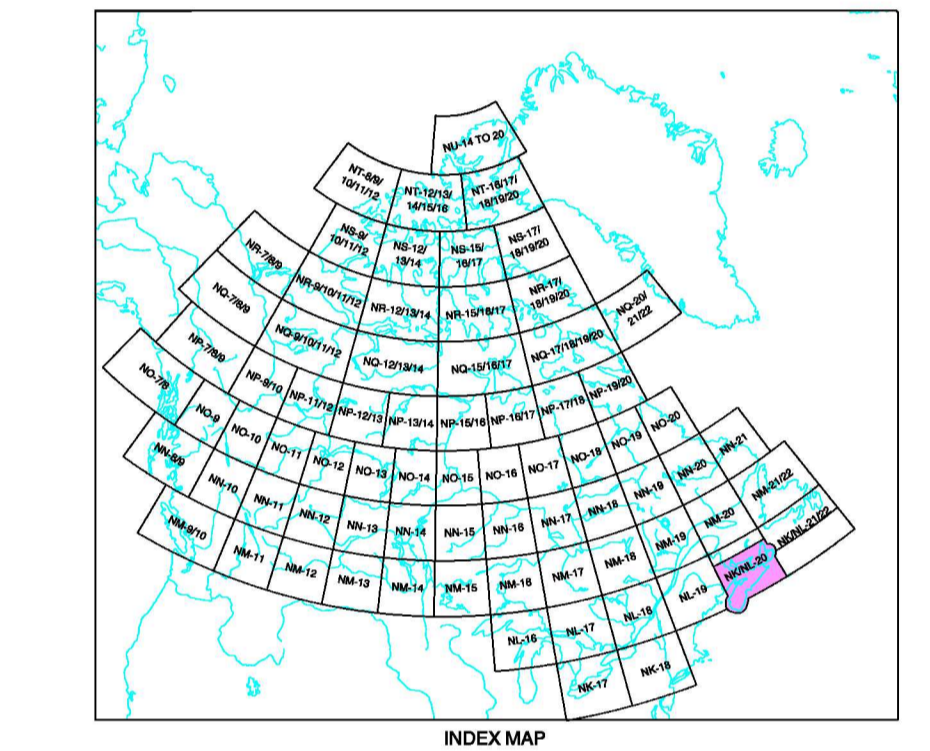


Figure 1  
equivalent Uranium  
EAST KEMPTVILLE AREA  
Detailed Survey  
Line Spacing - 250 Metres  
Line Azimuth - 135°  
Scale 1:125 000  
Kilometres

equivalent Uranium  
OPEN FILE 4466  
AIRBORNE GAMMA RAY SPECTROMETRY COMPILATION  
**NOVA SCOTIA**  
NOVA SCOTIA  
Scale 1:500 000 / Échelle 1:500 000  
Universal Transverse Mercator Projection  
North American Datum 1927  
© Her Majesty the Queen in Right of Canada 2003  
Projection universelle méridienne de Mercator  
Datum nord-américain 1927  
© Sa Majesté la Reine en chef du Canada 2003

OPEN FILE  
DOSSIER PUBLIC  
4466  
2003