

This radiometric map of Nova Scotia is one of eight 1:500 000 regional compilation maps that include three measured radionuclide concentrations (cesium-137, strontium-90, and potassium-40) and a derived natural air absorbed dose rate. The maps were produced using digital terrain models (DTMs) derived from the Shuttle Radar Topography Mission (SRTM) and corrected for elevation, along with the 2001 Federal provincial government (2001) and the 2001 provincial government (2001) 1:500 000 scale topographic maps. The maps were produced using the National Radiological Protection Board (NRPB) model for the estimation of natural air absorbed dose rates. The maps were produced using the NRPB model for the estimation of natural air absorbed dose rates. The maps were produced using the NRPB model for the estimation of natural air absorbed dose rates.

REFERENCES

Brown, J., Carson, J.M., Grant, J.A., and Peck, K.L. 1987. A radon survey, radon mapping technique and its application to the South Coast of Newfoundland. Geological Survey of Canada, Paper 87-14.

Ford, K.L. 1993. Radon mapping of parts of the Massachusetts Bay and Lincoln's complex, Maine. Department of Earth Sciences, University of New Brunswick, St. John's, New Brunswick, Canada. Report 93-12.

Ford, K.L., Carson, J.M., Grant, J.A., and Holmes, P.B. 1999. Radiometric maps of Nova Scotia. Geological Survey of Canada, Map 3000-001, Scale 1:500 000.

Ford, K.L., Macdonald, M.A., Peck, K.L., Brown, J., Hsu, L.L., Harris, R.L., Carson, J.M., and Grant, J.A. 1998. Airborne gamma ray spectrometry and radon and surface geology of the Nova Scotia coast. In: *Proceedings of the 1998 International Conference on Radon and Surface Geology*, Part A, Report 98-1, Nova Scotia Dept. of Mines and Energy, Halifax, Nova Scotia, Canada.

Ford, K.L., and O'Neil, G.A. 1995. Airborne gamma ray spectrometry surveys as an indicator of potential mineralization and radon mapping capability in the study area of the Magdalen Islands, Nova Scotia. In: *Proceedings of the 1995 International Conference on Radon and Surface Geology*, Part A, Report 95-1, Nova Scotia Dept. of Mines and Energy, Halifax, Nova Scotia, Canada.

Geological Survey of Canada. 1991. Radiometric Maps of Nova Scotia. Geological Survey of Canada Open File 2273, Scale 1:500 000.

O'Neil, G.A., Carson, J.M., and Ford, K.L. 1998. Gamma ray spectrometry radon mapping and mineral exploration: Case studies from the Magdalen Islands, Nova Scotia. In: *Proceedings of the 1998 International Conference on Radon and Surface Geology*, Part A, Report 98-1, Nova Scotia Dept. of Mines and Energy, Halifax, Nova Scotia, Canada.

This product includes map data obtained from the Nova Scotia Topographic Database (NSTDB) and is Crown copyright © 2003. Province of Nova Scotia. Used by permission of Service Nova Scotia / Ministère Provincial de l'Énergie, des Ressources et de l'Environnement.

Digital base for map at the scale of 1:500 000 from data compiled by Geomatics Canada, modified by ESR.

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

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

This map was produced from processed data conforming with the Cartographic Services Section Quality Management System, Ottawa, registered to the Quality System (ISO 9001) 2000 standard.

Any reference herein to the user would be welcomed by the Geological Survey of Canada.

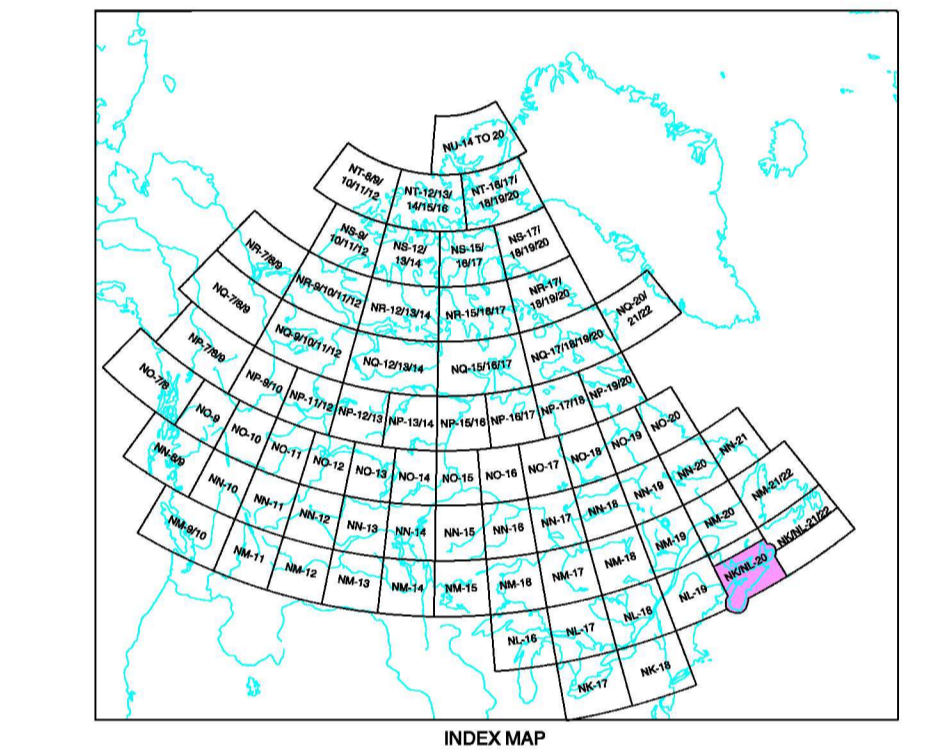


Figure 1
Natural Air Absorbed Dose Rate
EAST KEMPTVILLE AREA
Detailed Survey
Line Spacing - 250 Metres
Line Azimuth - 135°
Scale 1:250 000
Kilometres

Natural Air Absorbed Dose Rate
OPEN FILE 4464
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

OPEN FILE DOSSIER PUBLIC 4464
2003
Date: This file is public because the information is not confidential or otherwise exempt from disclosure under the Access to Information Act.