


MAP 41278G CARTE
11D/15a,b
NOVA SCOTIA
NOUVELLE-ÉCOSSE

Metres 1000 500 0 500 1000 Mètres

 Contribution to Canada-Nova Scotia Mineral Development Agreement 1984-1989, a subsidiary agreement under the Economic and Regional Development Agreement. Project funded by Geological Survey of Canada.

This map was compiled from data recorded during an aeromagnetic gradiometer survey carried out by Aerolimit Limited using a rotary wing aircraft. Two oriented cesium vapour magnetometers were mounted in a bird towed 30 m below the aircraft. The survey was conducted in a series of parallel flight lines, each measuring the total magnetic field to a resolution of 0.002 Gauss. The survey operations were carried out from October 1985 to February 1988. The flight track was located approximately 10 km above ground. The survey lines were flown in a north-south direction at 300 m above ground. The survey area was covered at an average spacing of 10 kilometres. Flight path recovery was effected using a Syledis radio positioning system supplemented by a vertically mounted 35 mm camera.

The vertical gradient values, which approximate closely to the first vertical derivative of the earth's total field, are obtained by dividing the difference between the magnetic field measurements on adjacent flight lines by the distance between the lines. The vertical gradient data were filtered with a digital operator to remove noise. The vertical gradient data from the control lines were not used in the compilation of the map. The data were edited, compiled, levelled and gradient contours were drawn by computer. The map was printed on a standard published map scale by a automatic computer processes at Aerolimit Limited. The base for this map was reproduced from a 1:500000 topographical map published by the Geological Survey of Canada.

Copies of this map may be obtained from the Department of Mines and Energy, Halifax, Nova Scotia, or from the Geological Survey of Canada, Ottawa. The survey data and the computer print of this map are available in digital form from the Geological Survey of Canada.

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