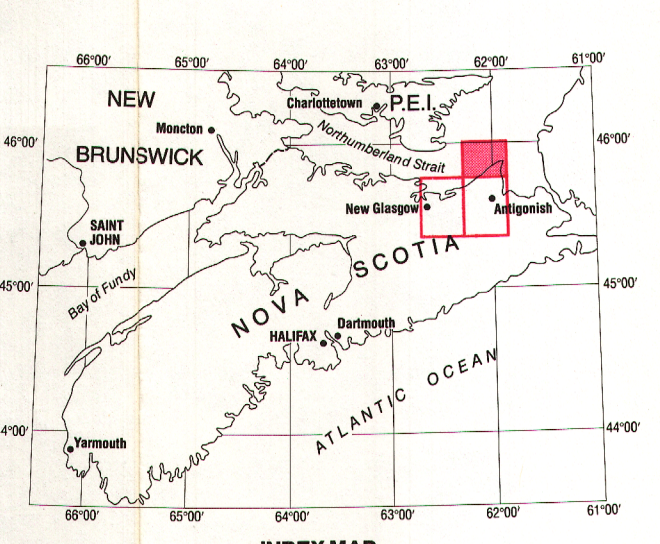
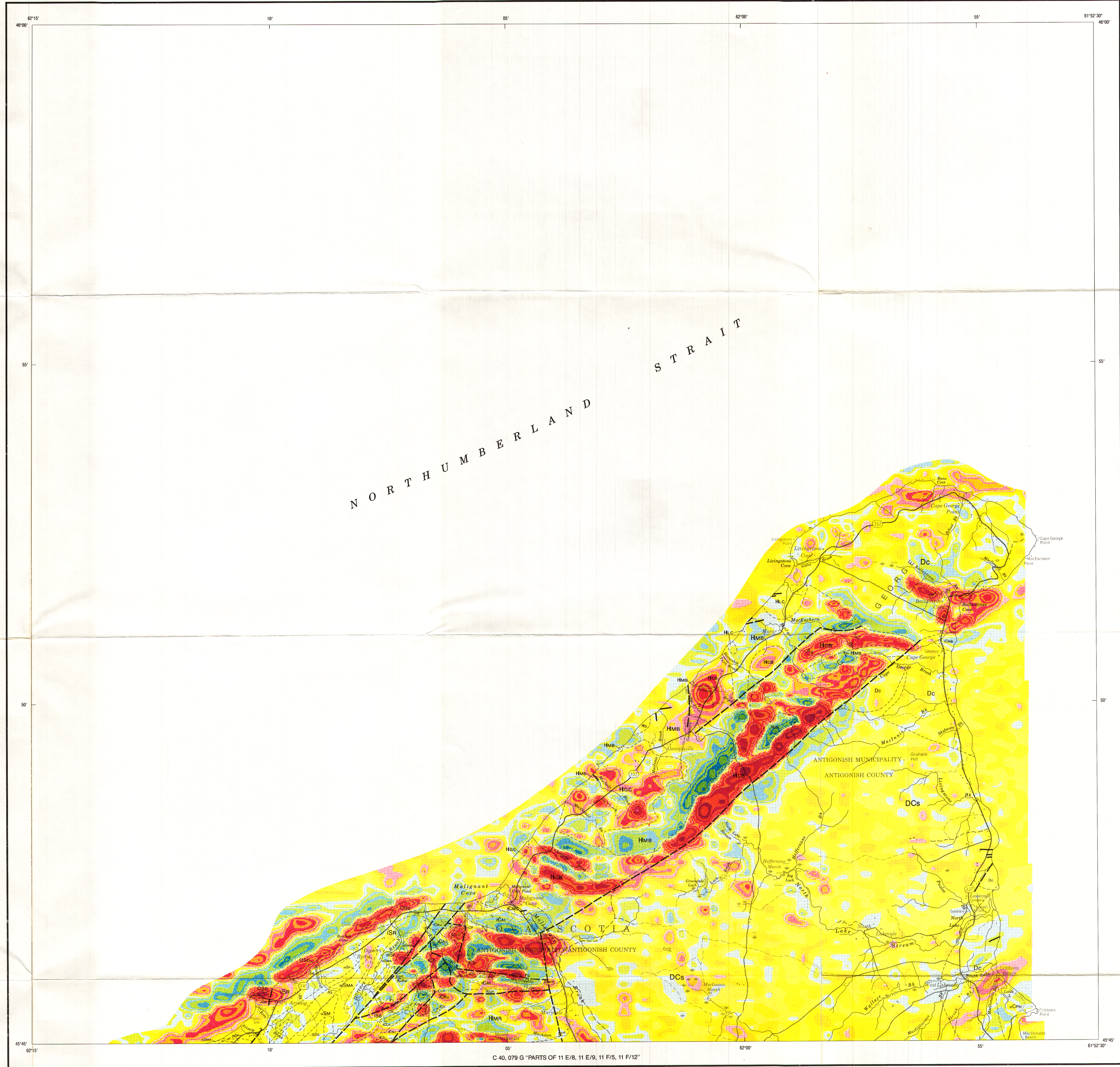


Geological legend table with columns for Paleozoic, Silurian and Devonian, Cambrian and Ordovician, and Proterozoic. Includes units like uCP, uCNG, uCPH, uCL, uCPQ, uCHT, ICv, ICFL, ICb, ICb, ICc, IC, SA, Pg, Py, ICb, iOF, iCAU, iCAI, iCB, iCMC, ?Cg, Hg, HGC, HSR, Hc, HJR, HJR, HMR, HMB, HCB.



Geology compiled by J. D. Koppie, Nova Scotia Department of Mines and Energy from: Bell, W. A. (1941) New Glasgow map area, Pictou County, Nova Scotia, Geological Survey of Canada, Map 616A (in Memor 225); Benson, D. G. (1967) Geology, Hopewell map area, Nova Scotia, Geological Survey of Canada, Map 1215A (in Memor 343); Benson, D. G. (1970) Geology, Antigonish (east half) and Antigonish and Cape George (west half) map areas, Nova Scotia, Geological Survey of Canada, Maps 2-1970 and 3-1970 (in Paper 70-8); Benson, D. G. (1973) Geology, Lochaber map area and Malignant and Malignant Cove map areas, Nova Scotia, Geological Survey of Canada, Maps 1300A and 1301A (in Memor 376); Boothroy, R. C. and Giles, P. S. (in press) Geological map of the Antigonish Basin, Nova Scotia, Nova Scotia Department of Mines and Energy; Giles, P. S. (in press) Geological map of the Eureka area, central Nova Scotia, Nova Scotia Department of Mines and Energy (in Paper 82-3); Meehl, R. H. (1961) Geology of eastern Pictou county, Nova Scotia, Nova Scotia Department of Mines, map figure 2 in Memor 4; Murphy, J. B., Koppie, J. D. and Hynes, A. (in press) Geological map of the northern Antigonish Highlands, Nova Scotia Department of Mines and Energy; and Schiller, E. A. (1961) Geology, Guysborough map area, Nova Scotia, Geological Survey of Canada, Map 27-1961.

Geological cartography by the Geological Survey of Canada

MAP C 40,080 G  
PARTS OF 11 E/16, 11 F/13  
NOVA SCOTIA  
Scale 1:50,000  
Includes a scale bar in meters and yards.

EXPERIMENTAL COLOUR MAP  
This map was compiled using the following computer automated techniques. Aeromagnetic digital data values were interpolated from the flight line data at the nodes of a regular grid covering the survey area. Each grid cell was 38 cm square. A colour code was assigned to each cell according to the amplitude of the aeromagnetic value within the cell using the colour scale shown in the legend. The data matrix was output on an Appleton colour jet plotter to produce a colour field map identical to the one above. To permit colour printing colour separations were made with the plotter to produce the red, yellow and blue components of the map on separate sheets. The Geological Survey of Canada would appreciate your comments concerning the merits of this type of compilation. Please address your comments to: The Director General, Geological Survey of Canada, 601 Booth Street, Ottawa, Ontario, K1A 0S8, Canada.

This map has been compiled from digitally recorded high-sensitivity aeromagnetic data obtained by two self-orienting rubidium-vapor magnetometers installed in twin tail booms mounted on the C52 Beechcraft 500 aircraft. The magnetometers are vertically separated by a distance of 2.08 metres with each measuring the total magnetic field to a resolution of 0.005 gammas. Flight altitude was 150 m above ground at 300 m average flight line spacing. Double control lines were flown at an average spacing of 12 kilometres. 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 total field readings of the two magnetometers by their vertical separation. The vertical gradient data was filtered with a digital operator to remove instrument noise. The vertical gradient data from the control lines was not used in the compilation of the map. The data was edited, compiled, levelled and gradient values interpolated onto a square grid (0.25 cm grid spacing at the published map scale) by automatic computer processes. The survey data used to compile this map is available in digital form from the Geological Survey of Canada at the cost of retrieval and copying. Airborne survey and digital compilation was carried out by Resource Geophysics and Geochemistry Division, Geological Survey of Canada. The survey operations took place in October and November 1977 and October 1978 using Beechcraft Queenair 65-590 aircraft C-PWZG. The topography for this map was reproduced from 1:50,000 topographical map sheets, published by the Department of Energy, Mines and Resources, Ottawa. Copies of this map may be obtained from the Mineral Resources, Nova Scotia Department of Mines, Halifax, or from the Geological Survey of Canada, Ottawa.

Funds for the flying operation were provided jointly by the Canada Department of Regional Economic Expansion, the Geological Survey of Canada, and the Nova Scotia Department of Mines and Energy. Publication of the maps was funded by Geological Survey of Canada through the Canada-Nova Scotia Co-operative Mineral Program 1981-84.

EXPERIMENTAL COLOUR COMPILATION (HIGH RESOLUTION AEROMAGNETIC VERTICAL GRADIENT)

MAP C 40,080 G PARTS OF 11 E/16, 11 F/13 NOVA SCOTIA

