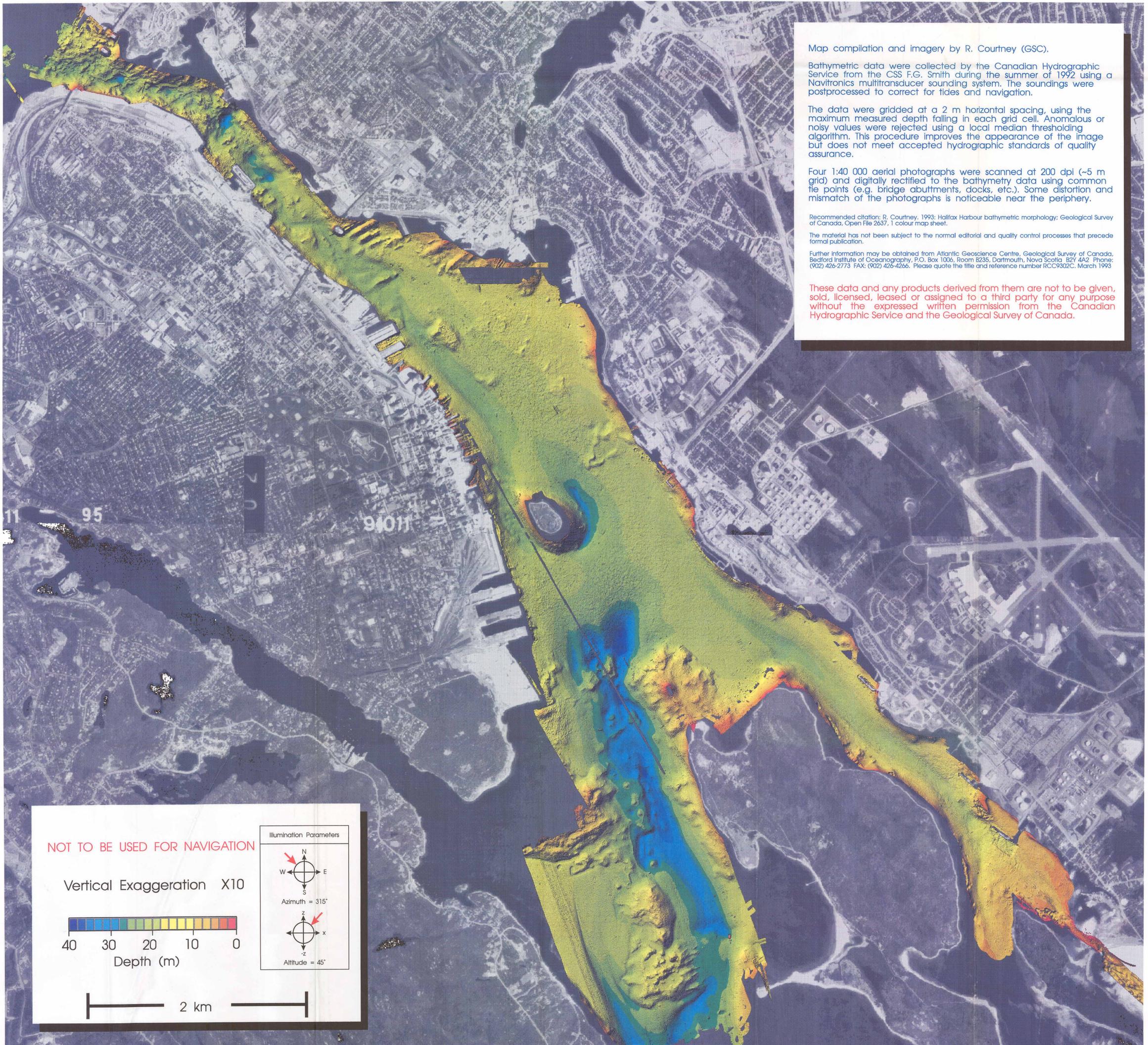




Halifax Harbour Bathymetric Morphology



Map compilation and imagery by R. Courtney (GSC).

Bathymetric data were collected by the Canadian Hydrographic Service from the CSS F.G. Smith during the summer of 1992 using a Navitronics multitransducer sounding system. The soundings were postprocessed to correct for tides and navigation.

The data were gridded at a 2 m horizontal spacing, using the maximum measured depth falling in each grid cell. Anomalous or noisy values were rejected using a local median thresholding algorithm. This procedure improves the appearance of the image but does not meet accepted hydrographic standards of quality assurance.

Four 1:40 000 aerial photographs were scanned at 200 dpi (~5 m grid) and digitally rectified to the bathymetry data using common tie points (e.g. bridge abutments, docks, etc.). Some distortion and mismatch of the photographs is noticeable near the periphery.

Recommended citation: R. Courtney, 1993: Halifax Harbour bathymetric morphology; Geological Survey of Canada, Open File 2637, 1 colour map sheet.

The material has not been subject to the normal editorial and quality control processes that precede formal publication.

Further information may be obtained from Atlantic Geoscience Centre, Geological Survey of Canada, Bedford Institute of Oceanography, P.O. Box 1006, Room B235, Dartmouth, Nova Scotia, B2Y 4A2. Phone: (902) 426-2773. FAX: (902) 426-4266. Please quote the title and reference number RCC9302C, March 1993.

These data and any products derived from them are not to be given, sold, licensed, leased or assigned to a third party for any purpose without the expressed written permission from the Canadian Hydrographic Service and the Geological Survey of Canada.

NOT TO BE USED FOR NAVIGATION

Vertical Exaggeration X10

40 30 20 10 0
Depth (m)

2 km

Illumination Parameters

N
W E
S
Azimuth = 315°

Z
X
-Z
Altitude = 45°