

Canada's geomatics community has always had an excellent record in applying and adapting new technologies. Private industry in particular has been an active participant in Canadian foreign aid projects providing mapping services to emerging nations. Mapping firms not only create and supply the digital maps, but also provide valuable consulting services to foreign agencies on the use, maintenance and application of the data.

Canadian mapping firms are also world leaders in developing photogrammetry and image-analysis techniques. Current Canadian developments in digital mapping, analysis software and information systems are rapidly expanding Canada's industry expertise and export markets.

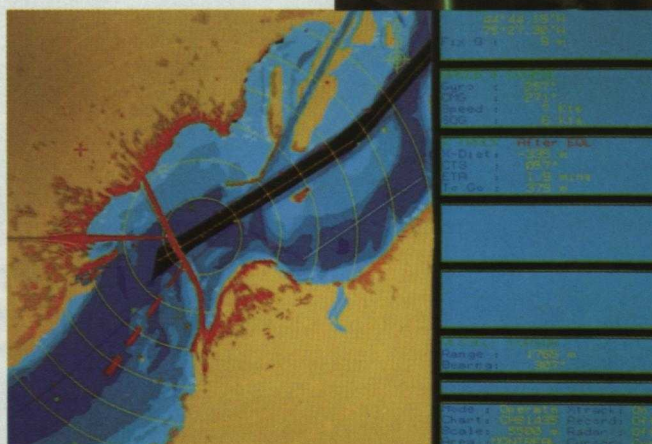
Hydrographic Charts

Hydrographic mapping also reflects Canada's innovative approach. For example, Canadian industry has developed technologies and systems for real-time operation of electronic chart displays aboard ships, enabling accurate navigation at night, in crowded waterways, and in any weather condition. Electronic charts are already installed on British Columbia ferries and Canadian Coast Guard icebreakers operating in the St. Lawrence River to allow year-round access to the Port of Montreal.



Gregory Geoscience Limited

Offshore Systems Limited



Working electronic charts with real-time display of ship's position have been developed by OSL. Here, matching of chart and radar image overlay eliminates most position ambiguities.

PROCUM-2, a geographic information system developed by Gregory Geoscience, projects a Landsat image onto a map for interpretation by analysts.