



IHO  
S-102

## NOTICE OF INTEREST

### FOR THE DEVELOPMENT OF S-102 PRODUCT DISPLAY APPLICATIONS/SOFTWARE

The S-100 standard being developed by the International Hydrographic Organization (IHO) will usher in a new era of marine cartography by introducing dynamic hydrographic product capabilities (charts, water levels, currents, etc.). The Canadian Hydrographic Service wants to get involved and encourage the development of this standard, which you can view online at [https://www.iho.int/iho\\_pubs/standard/S-100/S-100\\_Info.htm](https://www.iho.int/iho_pubs/standard/S-100/S-100_Info.htm).

A pilot project has been launched to provide products under the S-100 standard over the next year. The first stage in this pilot project is to provide the Canadian marine community with high-definition bathymetry (S-102). The files will be available in BAG format. This format will be used as a starting point until the next iterations of the S-102 standard roll out.

We invite all manufacturers involved in designing ECDISs, ECSs and PPUs to take an interest in this and to develop software that uses this data. The Canadian Hydrographic Service can provide "unofficial" files of these products to support you in developing this software. You will find these files attached to the message.

**We hope that you will take advantage of this project to develop tools to read these S-102 files (in BAG format) and use them to their full potential. Visit the Norwegian website <https://s102.no/> to see the potential of some aspects of the S-102 standard. We are really hoping that you will take an interest and participate.**

Other initiatives are also underway to make S-104 (water level) and S-111 (current) products available. **We will keep you posted.**

Picture showing a  
Portable Pilot Unit  
(PPU)

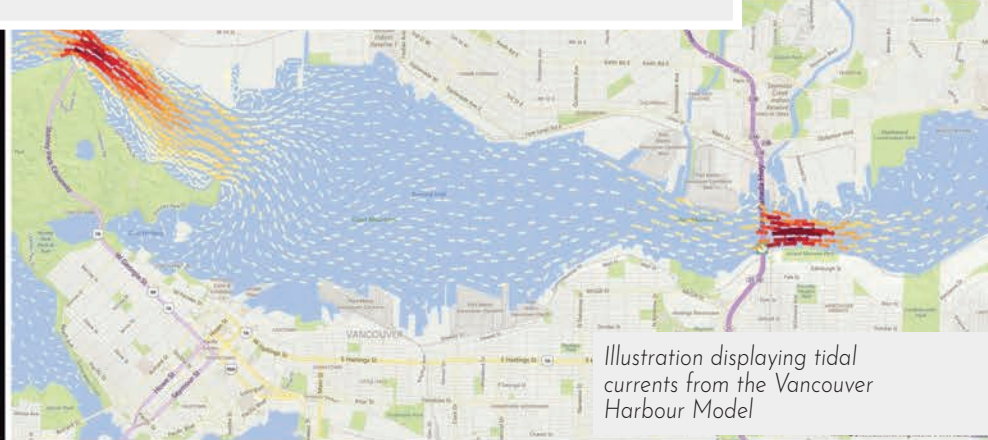
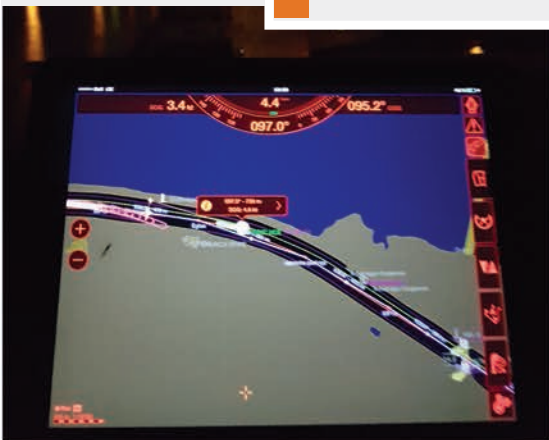


Illustration displaying tidal  
currents from the Vancouver  
Harbour Model

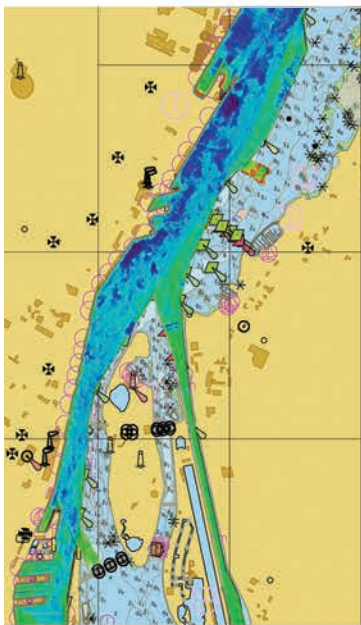


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## SOME OF THE PILOT PROJECT'S OBJECTIVES:

- Implement an innovative bathymetric data service that will prove the value of the S-100 data standards. To do this, we wish to help develop an attractive, robust and viable technology that will be "service-oriented," like Web mapping services (WMS).
- Show that S-102 files will bring much added value to the entire marine community (including the personalized creation of dynamic safety contours) and that they will be a sure help in planning and safety, and in increasing navigation efficiency.
- Prove the capabilities of S-102 bathymetry to users and manufacturers to promote the development of ECDIS/ECS/PPU software by potential manufacturers.
- Introduce a new paradigm, namely, putting bathymetry instead of nautical charts in the forefront. Bathymetric data is presented in the form of cells. For the project, we selected areas of interest throughout Canada.

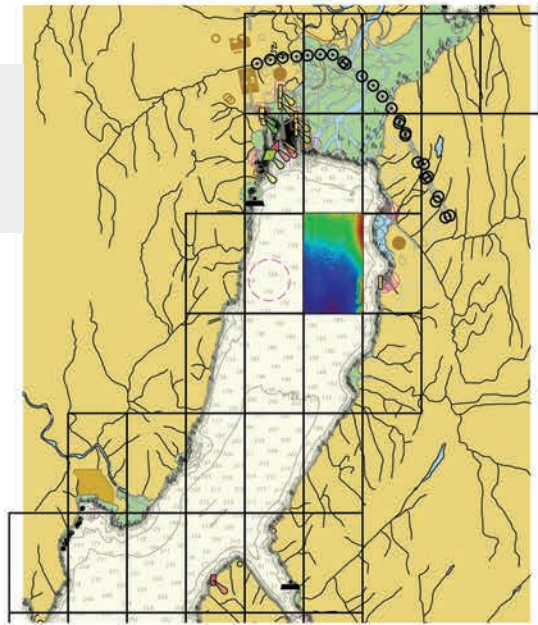


**Figure 1**

Example of an S-102 cell, selected in the Port of Montreal. Note the S-102 cell grid.

**Figure 2**

Another example of an S-102 cell, selected in Kitimat Arm.



For more information, or if you have any questions, contact:

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