

E-Navigation Update Prepared for the US-Canada Hydrographic Commission April 2014, St. John's NFLD- Kian Fadaie

Background:

2009- E-navigation User Needs Survey

2010 – Results of **User Needs Survey** identified 55 services/data types. These were used to populate a Canadian **E-navigation Required Services Matrix**.

2011 - Draft National E-navigation **Vision and Strategy**;

2011-2012, an e-navigation **Data Gap Analysis** was conducted to assess which of the 55 services/data types identified in the Required Services Matrix were available electronically, and who was the provider of this information.

2011 – Work started on **Maritime Portal**;

2012 – Developed an e-navigation **Implementation Plan** for Canada

2013/2014

- **E-Navigation Vision and Concept of Operations for Canada** was **shared internationally** at IMO, IALA and E-Navigation Underway Workshop
- **Started E-Navigation Implementation**, in accordance with the recommendations and guidelines established by IMO (NCSR), IALA, IHO (development of S100), IEC and others
- **Role of CHS**: continue to provide **High Definition bathymetry**, adopted the **S-102 format**.
- **Improved web service** for Tides, Water Levels and BSB download.
- Tidal prediction information is only available at individual tidal stations. To provide **continuous predictions information, the application of models that generate an interpolated grid between tidal stations** would be **to utilize** thus providing continuous coverage in the Atlantic, the Arctic, and Pacific waters.
 - This data is **generated at Mean Sea Level Datum** and would need to be translated to chart datum to be of use to the mariner.
 - **CHS' Continuous Vertical Datum Project** will be able to provide transformation from MSL to chart datum.
- **Pacific** - A working group will be created with the collaboration of the Canadian Hydrographic Service (CHS), Port of Prince Rupert, Port of Vancouver and Canadian Coast Guard (CCG) to conduct an **inventory of the existing and anticipated hydrographical and meteorological data** within the region. Presently, the western **tide gauges, current gauges and weather stations** are privately or publically owned. The main goal will be to **facilitate the sharing of information** among all the systems.
- **Central & Arctic** – To approach **US** colleagues (i.e. US Army Corps of Engineers, US Coast Guard) to **share info on the Great Lakes** waterways within the Great Lakes area. **Requirement of the Navtex (National Weather Service –NOAA** for the Great Lakes (still under discussion)
- **Quebec** -The **Dynamic Under Keel Clearance (DUKC)** project with the Port of Montreal is progressing. The contract was awarded to OMC (Australia based company) with two Canadian sub-contractors. The pilot project will begin in April 2014

2014/2015

- Feb **2014** Mariner's Workshop in Montreal –**USCG** showed a lot of **interest** in the new **portal**. We hope to have the portal become “live” in **early 2014/2015**.
- Add more information to the portal