

43rd Meeting of the United States of America - Canada Hydrographic Commission National Report of CANADA



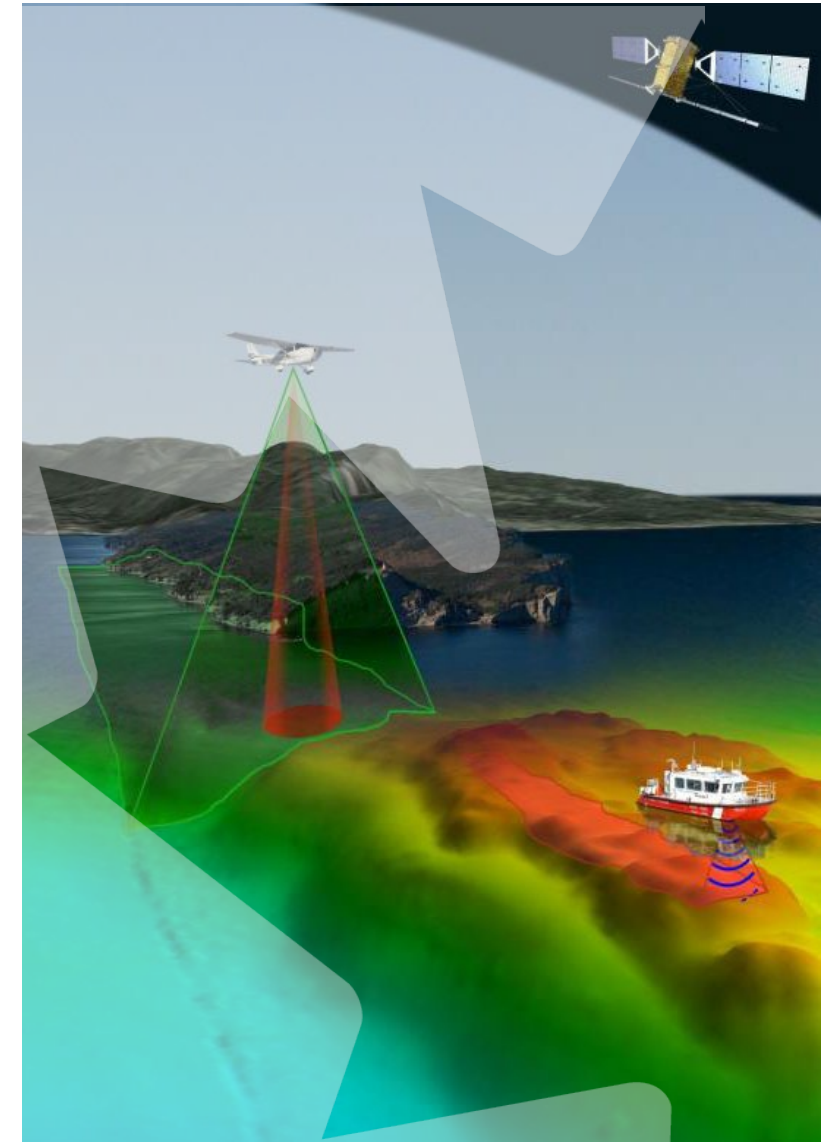
Geneviève Béchard

Hydrographer General of Canada

Director General

Canadian Hydrographic Service

Fisheries and Oceans Canada



Overview

Organizational changes

-2019-2020 Fiscal Year National Surveys & Chart Updates

-Developments from the Royal Canadian Navy

-Non-Navigational (NONNA) Bathymetric Data

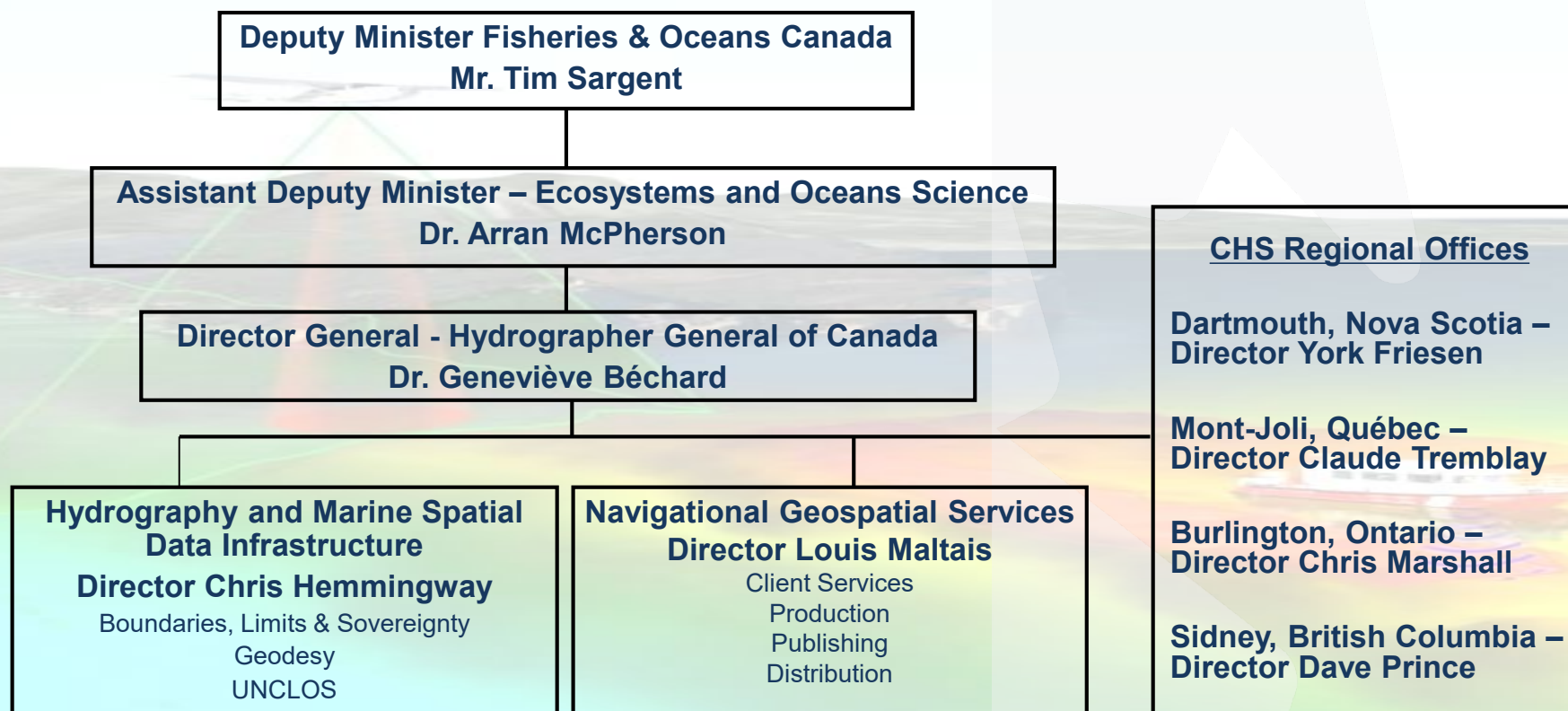
-CHS Transformation

-Publications - Going Digital

-Developing Digital Services

-International Activities

Organization Update

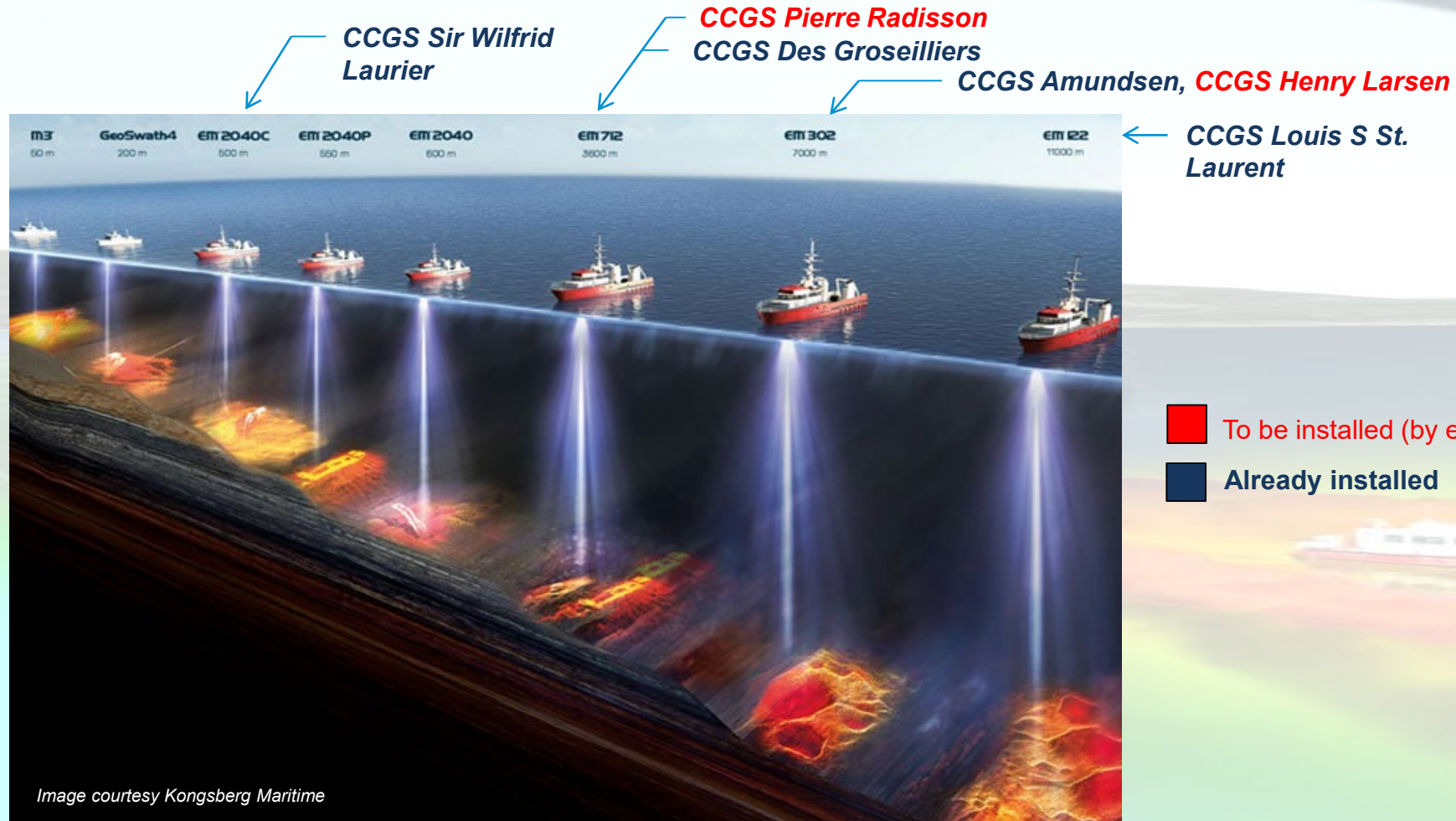


2019-2020 Fiscal Year National Surveys

- **Multibeam and LiDAR surveys in all regions**
- **Much of the work is funded under the Oceans Protection Plan (OPP) Initiative**
- **1,000 km² LiDAR has been flown and validated**
- **Almost 30,000 km² Multibeam survey has been collected and validated so far this fiscal year**



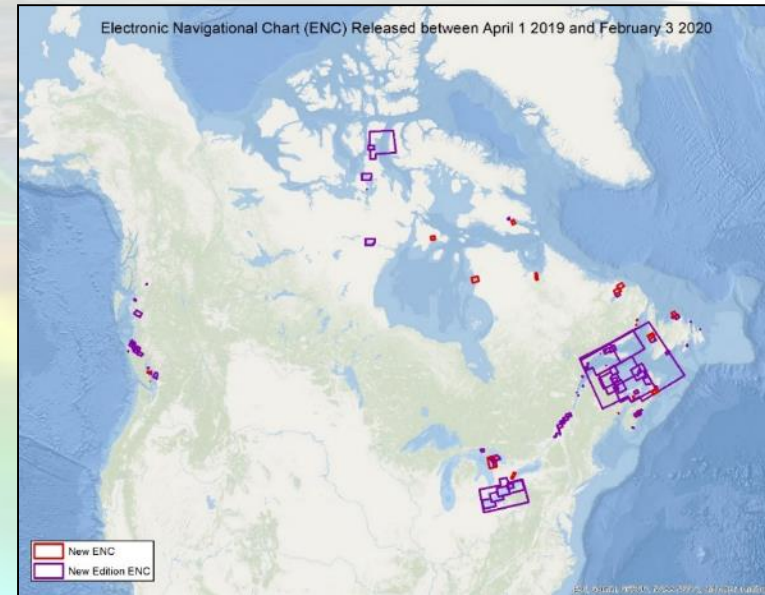
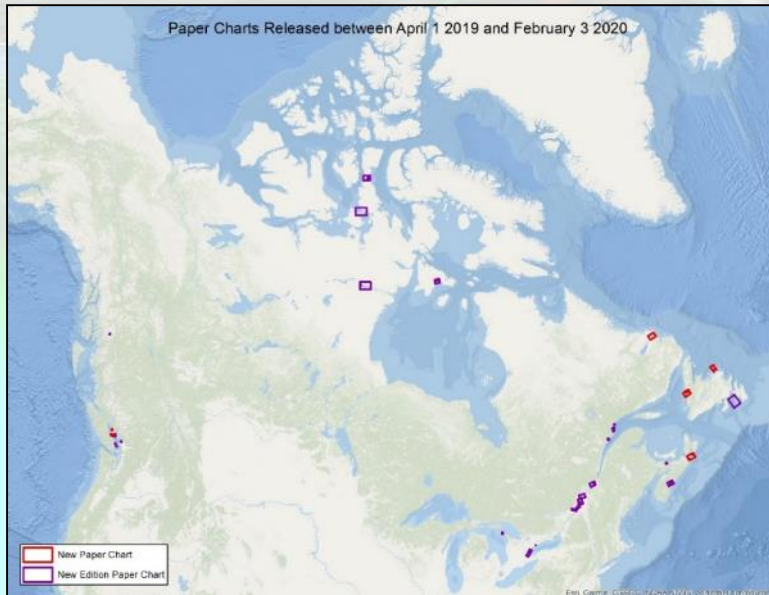
Multi-beam installation update



2019-2020 Fiscal Year Product Updates

- 33 New ENC
- 5 New Paper Charts
- 124 New Edition ENC
- 23 New Edition Paper Charts

- 1 New Edition Sailing Directions Book
- 1,119 Sailing Directions updates
- 526 Notices to Mariners
- 71 NAVWARNs (NOTSHIPS)



Developments from the Royal Canadian Navy

- ***Harry-DeWolf*-class Arctic and Offshore Patrol Vessel**
 - Capability of embarking additional, non-RCN personnel (CHS, RCMP, Border Security, etc.) as mission requires
 - No MBES fitted in final design
 - DND (with CHS assistance) is in the early stages of producing an engineering change to install MBES



Developments from the Royal Canadian Navy (continued)



Ship	Hull No.	Laid down	Launched	Commissioned
<i>Harry DeWolf</i>	AOPV 430	11 Mar 16	15 Sep 18	
<i>Margaret Brooke</i>	AOPV 431	29 May 17	10-Nov-19	
<i>Max Bernays</i>	AOPV 432	19 Dec 17		
<i>William Hall</i>	AOPV 433			
<i>Fréderrick Rolette</i>	AOPV 434			
<i>Robert Hampton Gray</i>	AOPV 435			

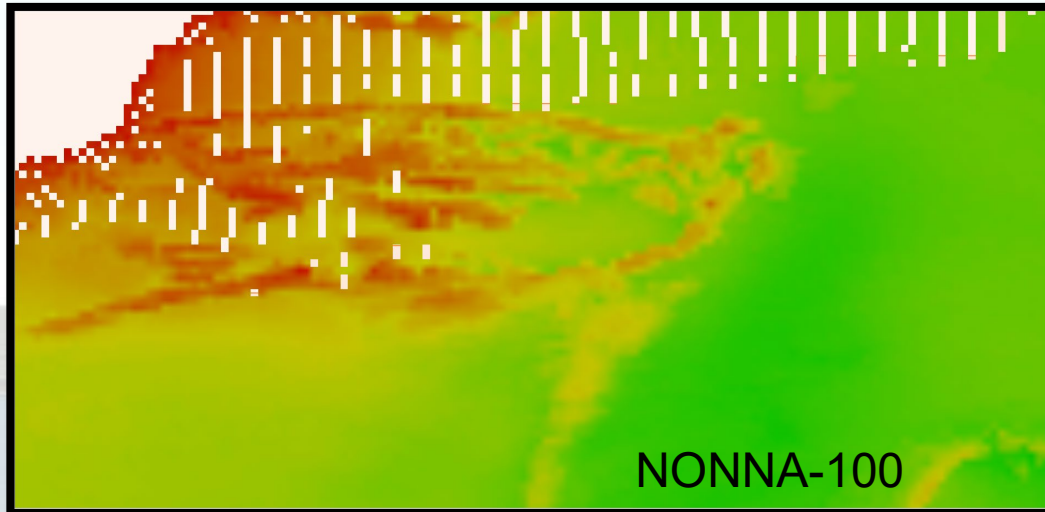


HMCS Harry-DeWolf

- Turnover to RCN early 2020
- Sea Trials, Work-ups in mid 2020



Non-Navigational (NONNA) Bathymetric Data

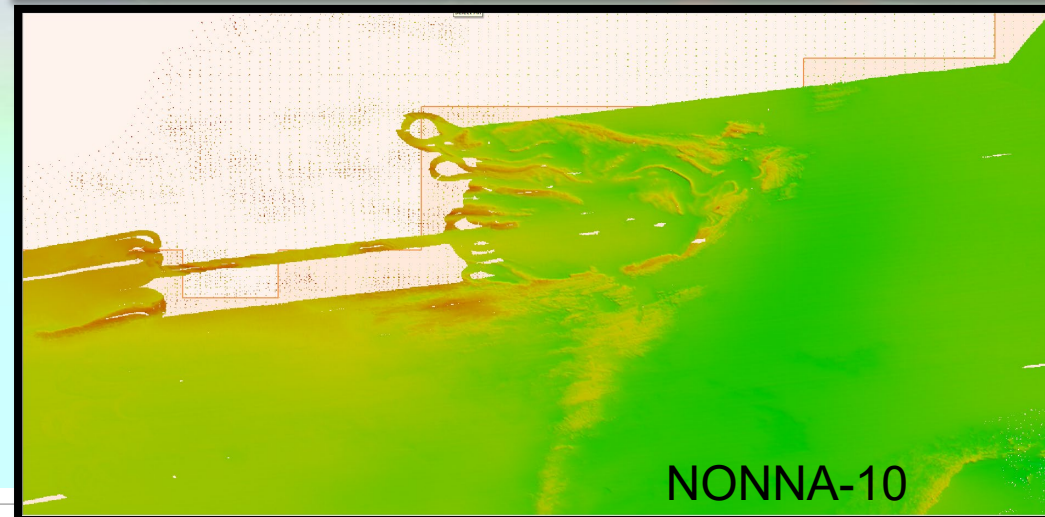


CHS NONNA-100

- Most viewed DFO data on Federal Geospatial Platform (FGP)

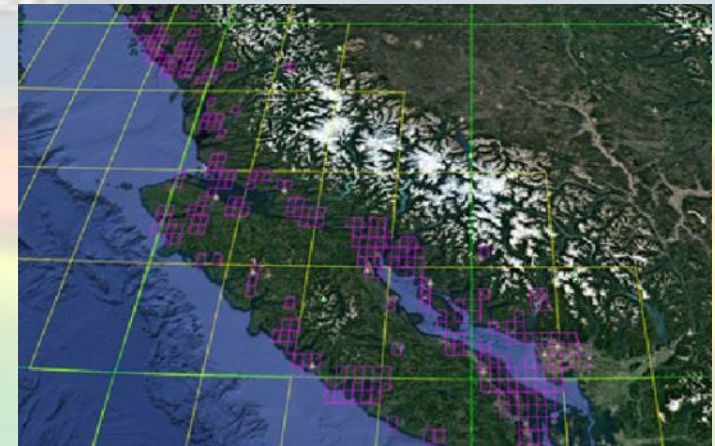
CHS NONNA-10

- Target release for non-Arctic data is Summer 2020
- It will be available to the general public, free of charge, for non-navigational use on the Government of Canada's Open Data site
- Release of Arctic data TBD



CHS Transformation Overview

- Move from 6 to 3 coverages for S57 ENC's to prepare for S101 and S1xx
- Full vectorization and rationalization of chart products
- Fill ENC gaps
- Paper chart 2.0
- Comparative validation of bathymetric holdings
- Move to data as a service
- Working with partners on transboundary cells in order to provide seamless coverage for clients
- Regional and international exchange opportunities
- Will propose a grid schema for the Arctic to ARHC



Transforming CHS Publications - Going Digital

- CHS has recommended to Transport Canada that the word 'paper' be removed from the Charts and Nautical Publications Regulations.



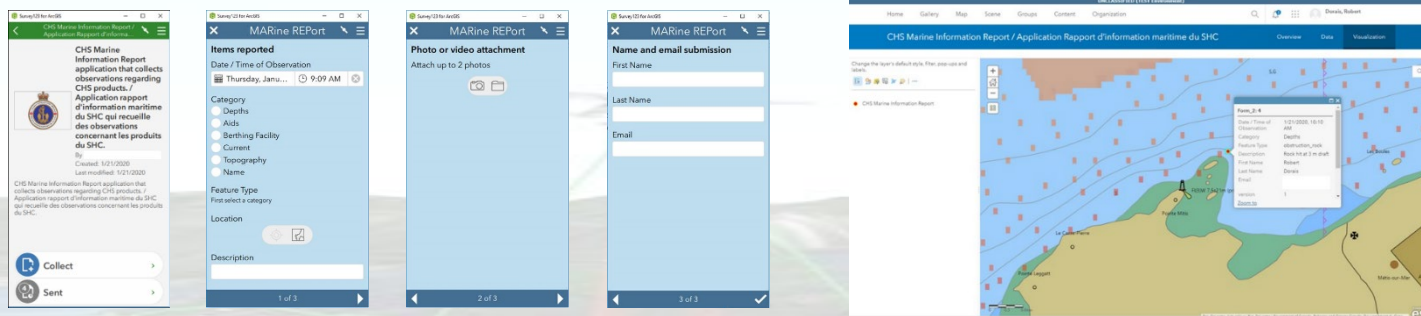
- Sailing Directions publication with monthly NtMs applied available free on line since April 2019



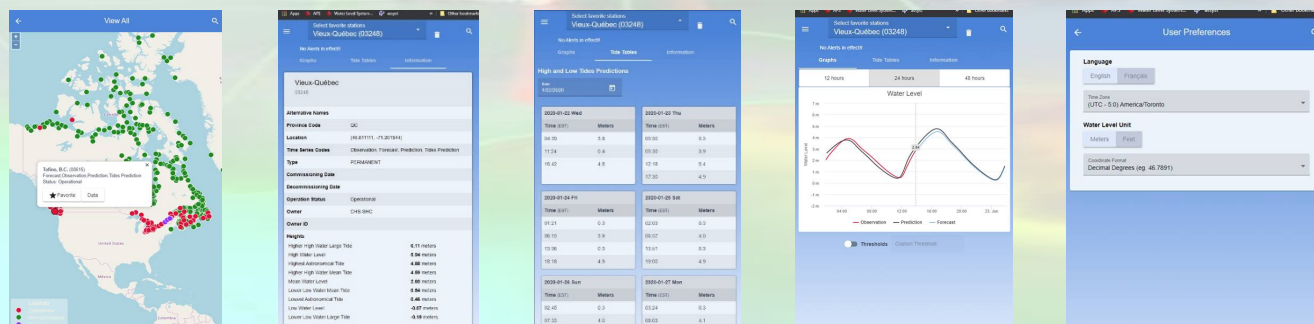
- CHS Sailing Directions are evolving with a national transition to continuous maintenance.
 - Next step will be to explore the full potential of the information contained within by georeferencing the contents and converting to ePub.
- Canadian Tide and Current Tables – Available digitally online for several years
- Chart Catalogues conversion – In progress, estimated completion Summer 2020 (converting to 8.5x11 printable format)

Transforming CHS Developing Digital Services

• E-MAREP – Marine Information Report – under development



•TIDES – V1 is web based, V2 will be a standalone and downloadable



•Launched 4 web applications for MSDI platform (OPP Storyboard, CHS Priority Planning Tool, Northern Potential Low Impact Shipping Corridors, Arctic Voyage Planning Guide)

2019-2020 International Activities (selected)

- S-100 Sea Trials in Busan, South Korea
- Exchange with NOAA on board NOAA's Rainier
- World Maritime University's conference on "Empowering Women in the Maritime Community"
- Vector Symposium and visit from Julien Le Deunf from SHOM
- 11th IHO HSSC meeting Cape Town, South Africa.
 - SA National Hydrographer, Capt. Theo Stokes was presented with the first CHS Coin
- ICG-PTWS in Montelimar, Nicaragua
- ENCWG4 in Monaco
- IHO Council 3rd meeting





Merci !

Thank you!

