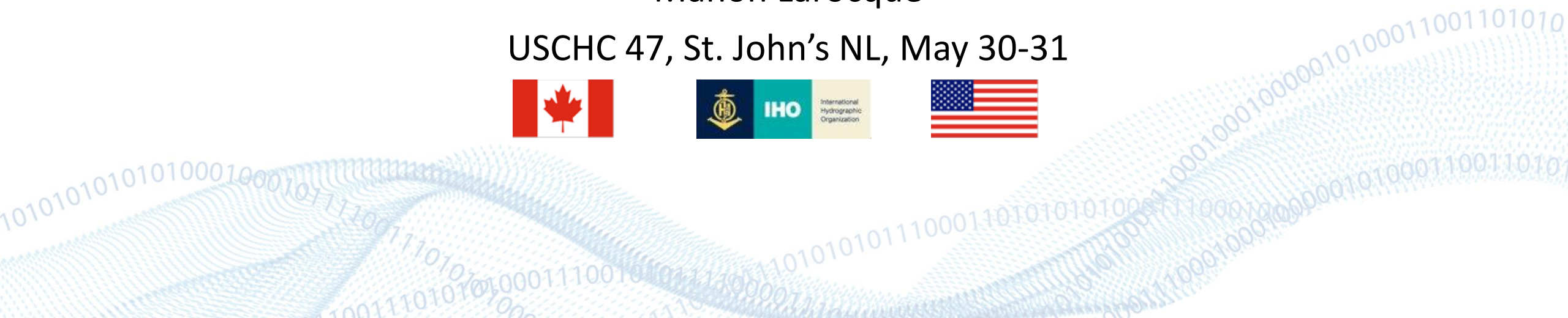


Draft_United States-Canada Hydrographic Commission 47th Meeting

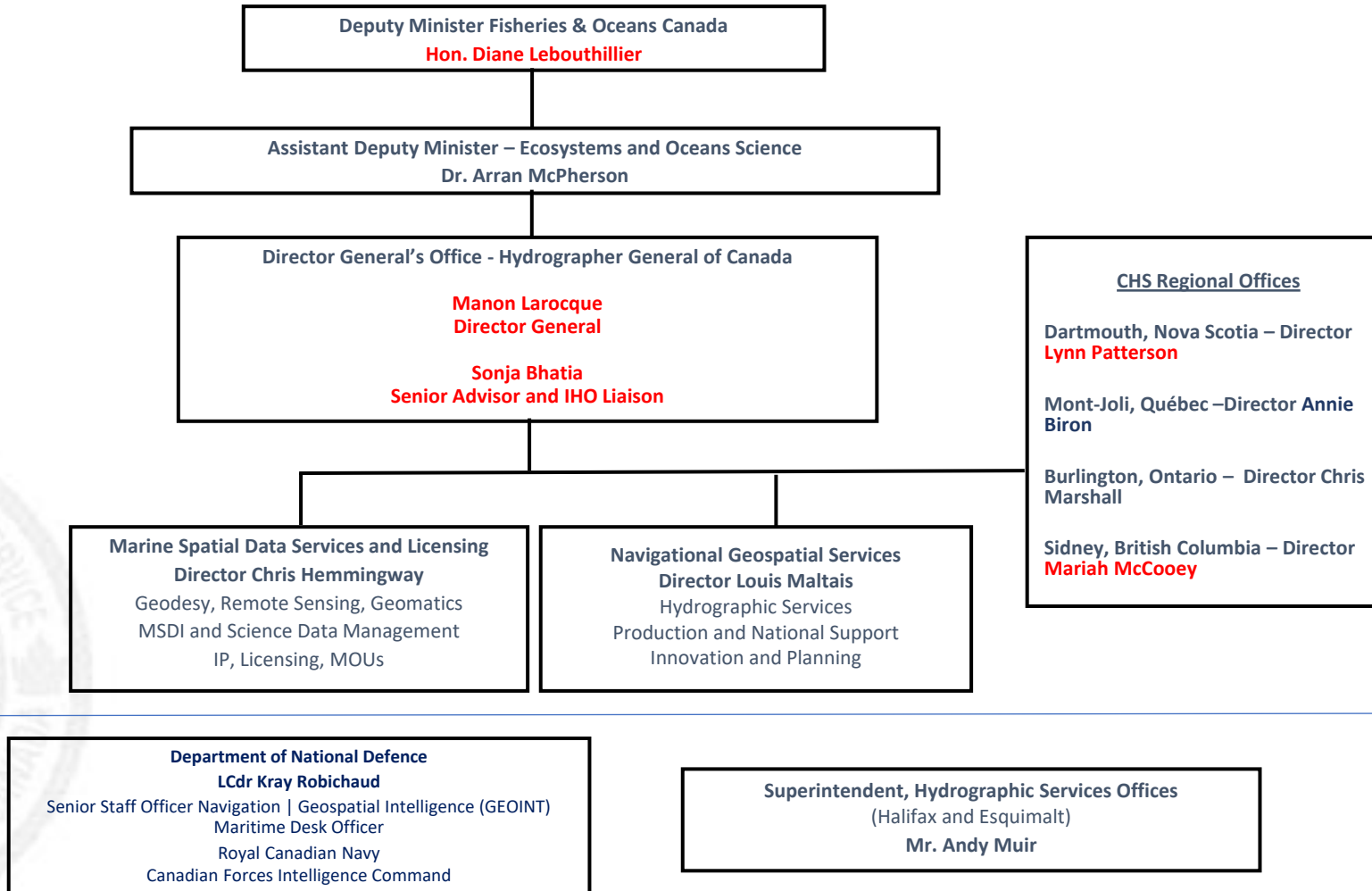
Manon Larocque

USCHC 47, St. John's NL, May 30-31





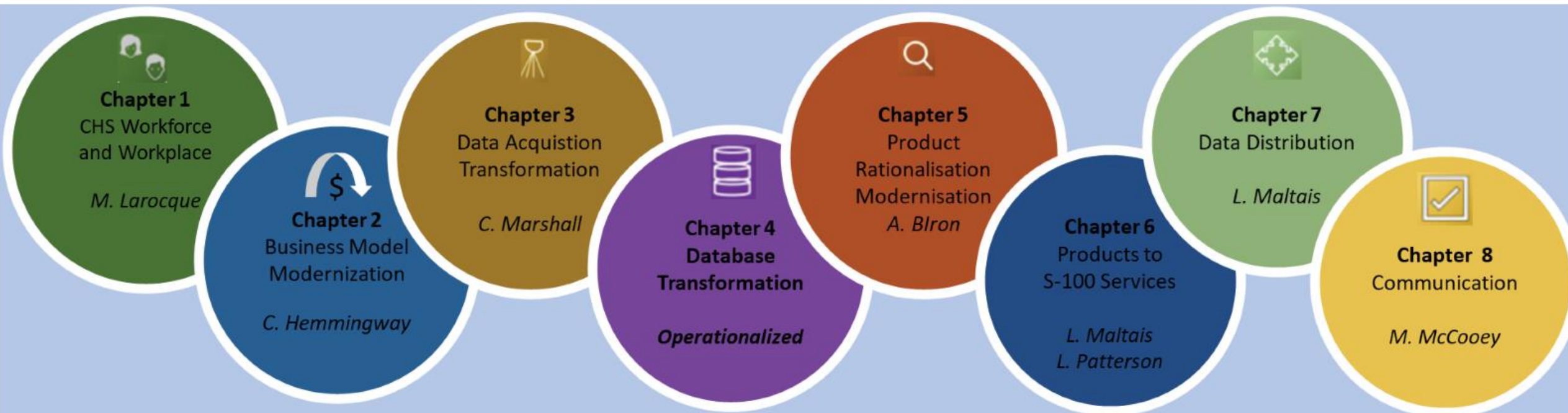
Organizational Updates





Transformation Updates

A multi-year project divided into eight different chapters with specific goals under the leadership of a dedicated champion



- ❖ DG Steering Committee provides oversight to the Digital Infrastructure Transformation
- ❖ DG-level Advisory Board to help guide strategy



Renewal of the Ocean Protection Plan (OPP2) -CHS

Improve safety of navigation by leveraging modern and emerging technologies & continue to **fill important gaps** in surveying and charting in Canadian Arctic waters

**ADVANCING ARCTIC
SURVEYING AND
CHARTING**

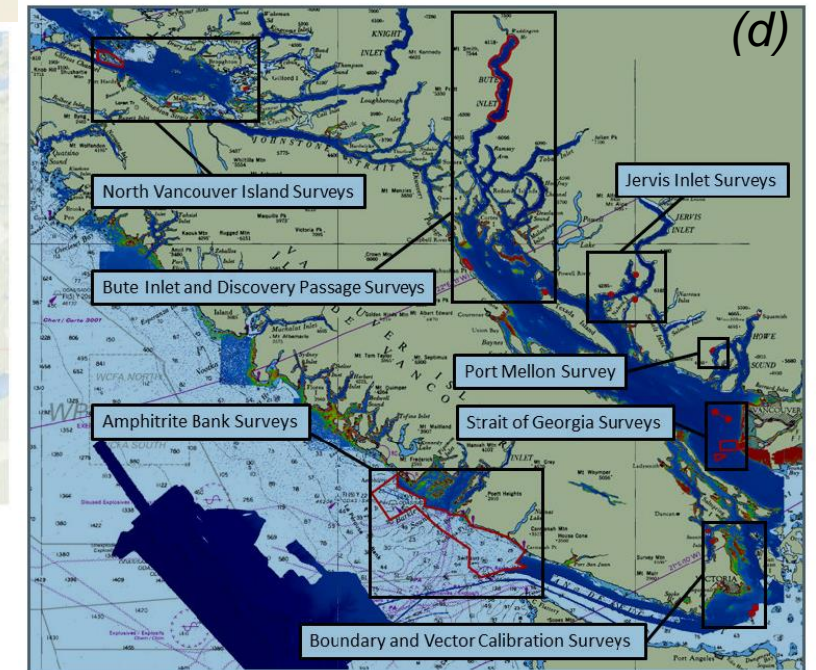
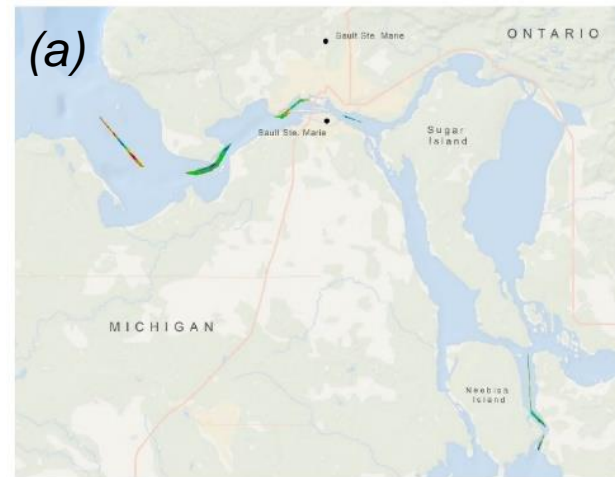
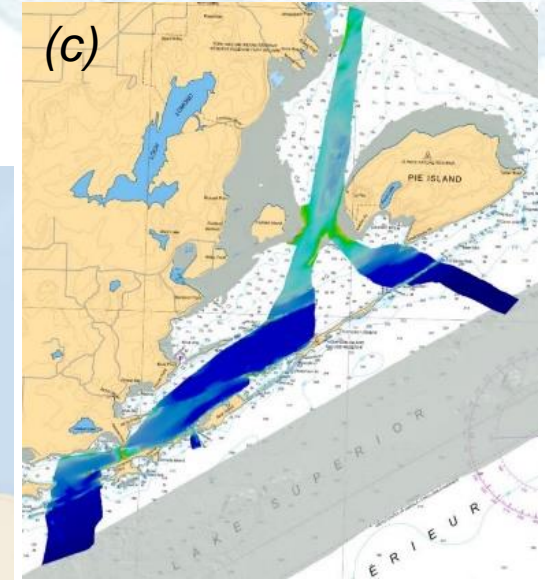
**COMMUNITY-BASED
HYDROGRAPHIC DATA
COLLECTION**

Empower indigenous and coastal communities to collect and use hydrographic data, building and expanding on recent pilots and initiatives



Survey Highlights in Area A

- Interconnecting waterways of Detroit, St. Clair and St. Mary's Rivers in support of CCG;
- Victoria Channel on the approaches to the Port of Thunder Bay
- CHS Surveys on the Pacific South Coast in 2023

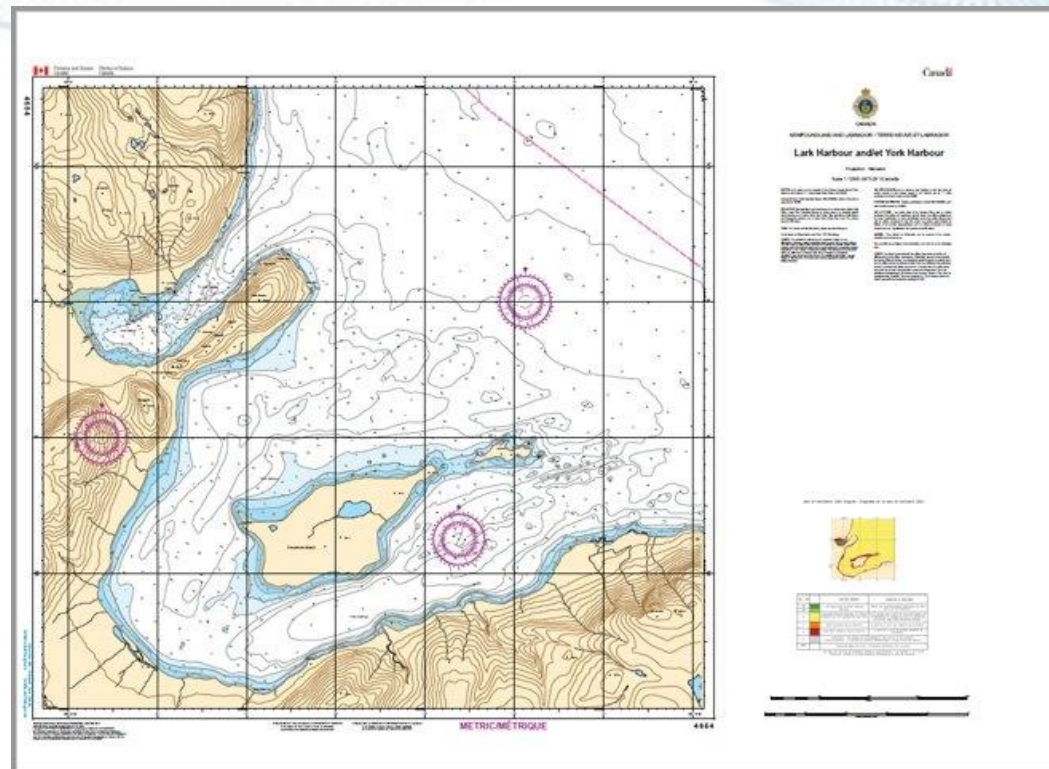


Surveys in the Great Lakes (a) Sault Ste. Marie Area, (b) Detroit River, (c) Victoria Channel Surveys around Vancouver Island (d)

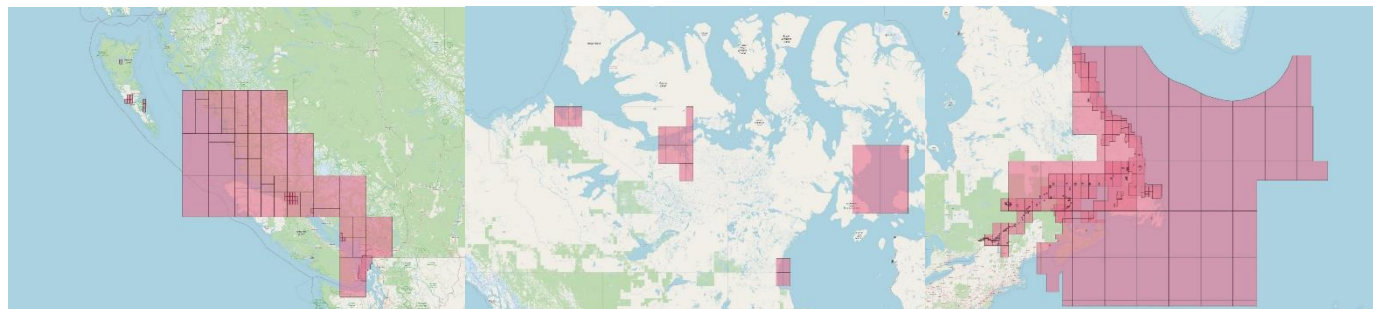


Charting Highlights & Portfolio Modernization

- Between April 1st, 2023 to April 15th, 2024, CHS released:
- 509 new ENC's
- 129 new edition ENC's
- 9 new paper charts
- 10 new edition paper charts
- 1 Paper Chart 2.0 – piloted first release
- As of April 2024, 276 of the 810 BSB's have been canceled



First Paper Chart 2.0 in Lark and York Harbours



New ENC's released since April 1, 2023.



Human Side of Transformation

	Desired Competency A	Desired Competency B	Desired Competency C	Desired Competency D	Desired Competency E
REGION					
Team Member 1 CLASSIFICATION	5	1	4	5	5
Team Member 2 CLASSIFICATION	2	4	5	3	3
Team Member 3 CLASSIFICATION	1	4	5	1	1
Team Member 4 CLASSIFICATION	4	5	3	3	5
Team Member 5 CLASSIFICATION	3	5	5	5	5
TOTAL SCORE (DESIRED SCORE)	20 (30)	19 (20)	22 (25)	17 (25)	19 (24)



Empowering Women in Hydrography

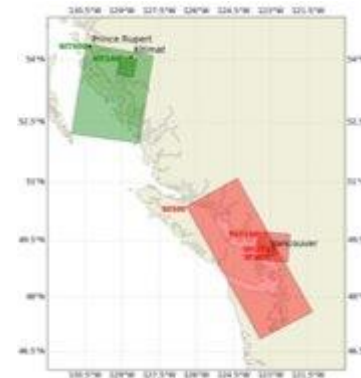
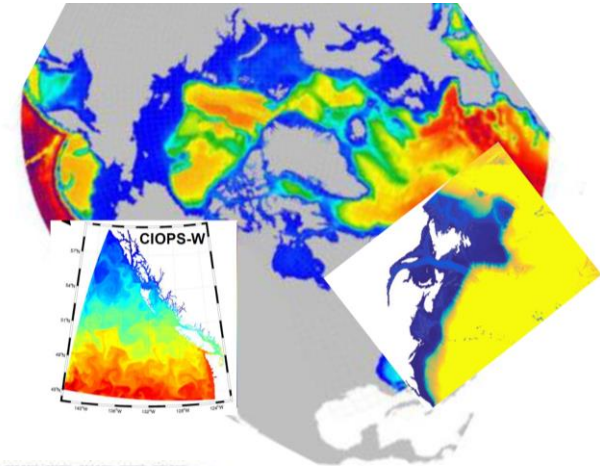


A few images from Canada's West Coast



Advancing S-100

- Proposed St. Lawrence [Designated Sea Trial Area for 2025](#)
 - Already have high resolution S-100 products in the upper St. Lawrence Estuary between Quebec City and Montreal
- Technical information sessions with pilots' associations and other members of industry on S-111 surface currents and S-102 bathymetry.
- Port and Waterway Ocean Prediction systems (POPS) for Medium-to High resolution received an extensive Canadian Science Advisory Secretariat (CSAS) model review, including the first "fit for purpose" Canadian evaluation for E-nav services



1. National Geospatial Intelligence Agency (NGA) staff visit to Canadian Hydrographic Service (CHS) & Hydrographic Service Office (HSO), Sidney & Esquimalt, BC, Canada, 24-28 Jun 2024
2. CHS / Royal Canadian Navy (RCN) joints operations in the Arctic, Sep 2024
 - a. HMCS *Margaret Brooke* – embarked CHS staff and RCN staff will jointly conduct GNSS observations (Marble Island) and recover Tide Gauge Moorings in Chesterfield Inlet and Digges Harbour, Hudson Bay
3. US Navy (USN) Commander Naval Meteorology Oceanography Command (CNMOC) / RCN collaboration in the Arctic, Jul-Oct 2024
 - a. HMCS *Harry DeWolf* - deploy 5 ALAMO floats (Labrador Sea);
 - b. HMCS *Margaret Brooke* - deploy 5 Lithium MRVs (E. Newfoundland);
 - c. HMCS *Max Bernays* - deploy 5 ALAMO floats (Bering Sea) & 5 Lithium MRVs (Gulf of Alaska).
4. NATO Geospatial Maritime Working Group (GMWG) Technical Panels, CFB Esquimalt, BC, Canada, 21-25 Oct 2024
 - a. GMWG Technical Panel;
 - b. NATO Additional Military Layers Co-production;
 - c. S-501 AML Project Team.



Challenges

- IT infrastructure is external to CHS, so can impact S-100 delivery
- Employee recruitment
- Ship time scheduling
- Aligning Canadian S-100 implementation with the S-100 roadmap
- S-101 international standard development timelines (potential challenge)
- Limited funding for surveying, priority is Arctic



Thank you