



Fisheries and Oceans
Canada

Pêches et Océans
Canada



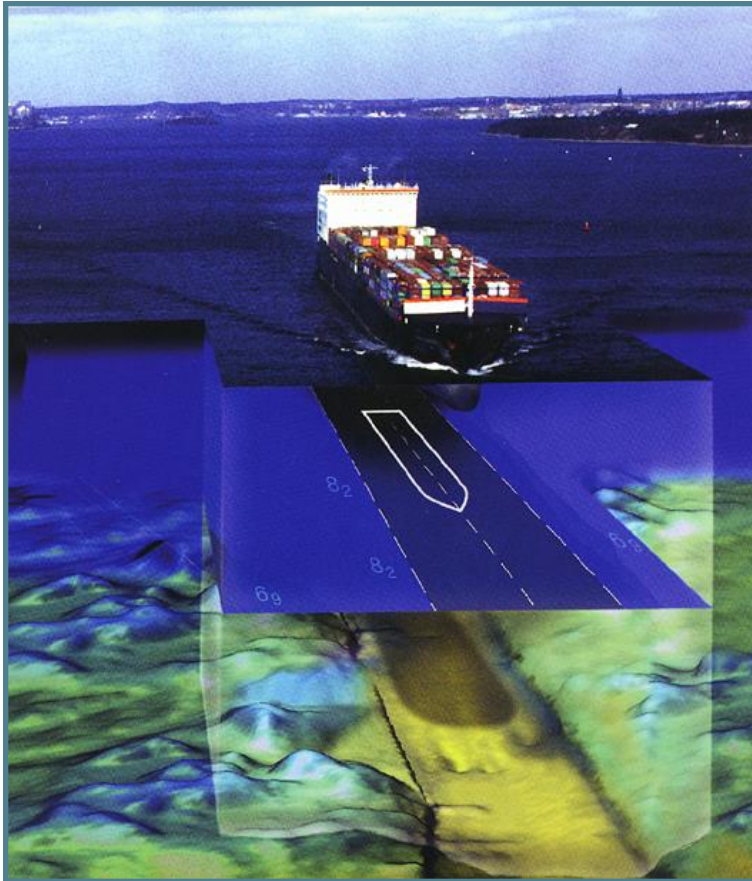
CANADIAN HYDROGRAPHIC SERVICE & OCEANOGRAPHIC SERVICES

38th U.S.-Canada
Regional Hydrographic Commission
March 16nd, 2015

Denis Hains, Director General &
Hydrographer General of Canada



Canadian Hydrographic Service – Vision

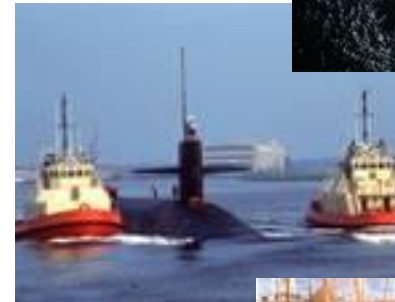


“ To provide clients with up-to-date, timely, and accurate hydrographic publications services and data necessary for safe and efficient navigation for navigable waters of Canada in the most cost effective and efficient manner and to represent Canadian hydrographic interests nationally and internationally. ”



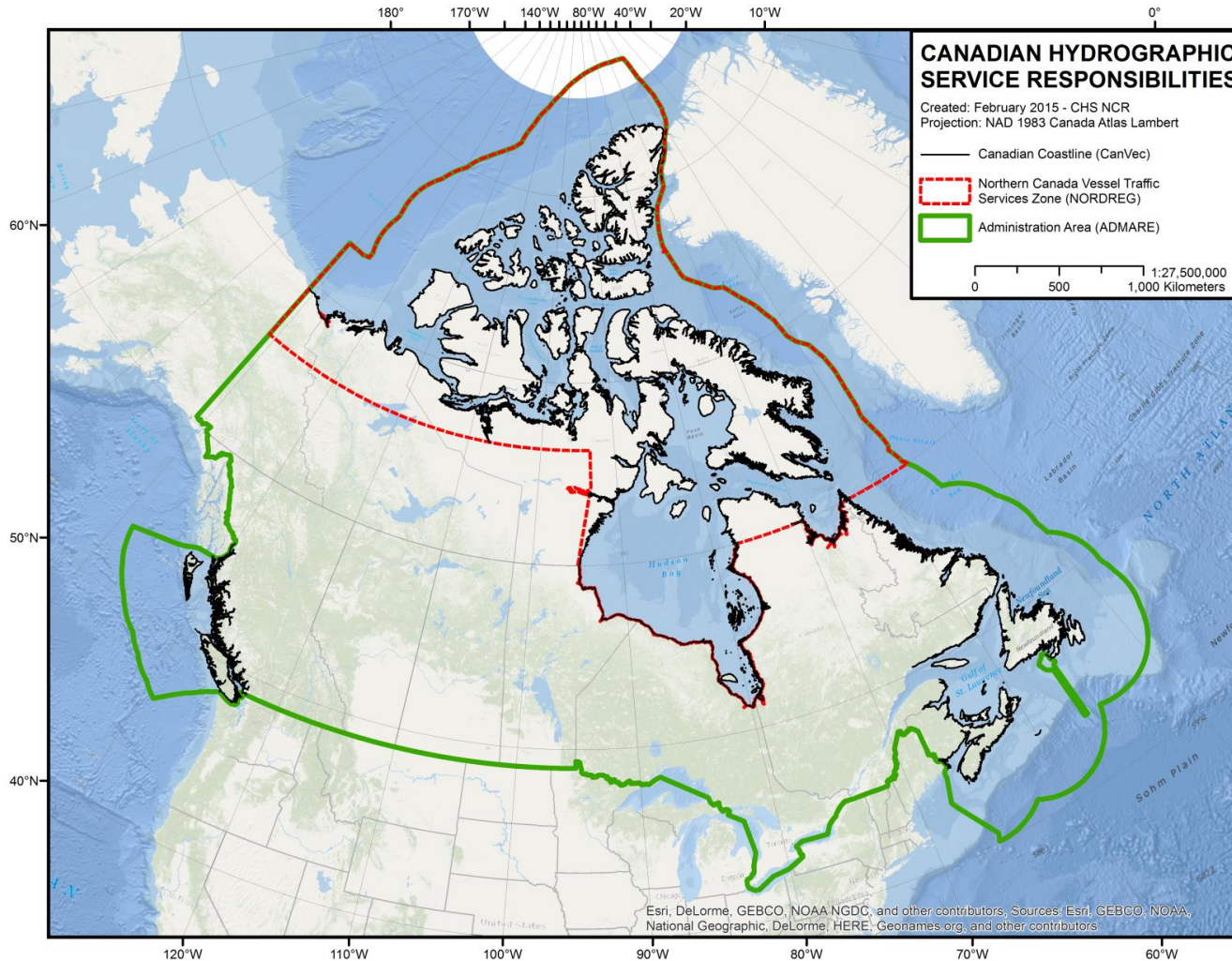
Mandate

- Charting Canada's navigable waterways in support of:
 - *Safety of navigation/Protecting life at sea*
 - *Maritime delimitation*
 - *Contributing to security and sovereignty*
 - *Protecting the environment (tide surge etc.)*
 - *Contributing to economic development*
 - *Contributing to marine science*
- Several legislations and conventions mandate CHS including Canada Shipping Act 2001 and SOLAS Convention





Canadian Hydrographic Service and Oceanographic Services (CHS&OS)



The Canadian Hydrographic Service and Oceanographic Services is part of the Ecosystems and Oceans Science Sector of Fisheries and Oceans Canada.

Our organization is responsible for charting Canada's 131,650 nautical miles of coastline (the longest of any country in the world), the 739,266 square nautical miles of continental shelf and territorial sea, plus inland lakes and waterways.



CHS&OS Organization

Assistant Deputy Minister – Ecosystems and Oceans Science
Mr Trevor Swerdfager

Director General/ Hydrographer General
Mr Denis Hains

CHS Regional Offices

Dartmouth, Nova Scotia - Director Jacinthe Cormier

Mont-Joli, Québec - a/Director Serge Gosselin

Burlington, Ontario - Director Michel Goguen

Sidney, British Columbia - Director Dave Prince

**Intellectual
Property Office**
Manager Paul
Holroyd

Senior Advisor
Sean Hinds

Hydrography

Director Kian Fadaie

Safe and Accessible Waterways
Boundaries, Limits & Sovereignty
Career Development and Training
Standards and Interoperability
UNCLOS

Oceanographic Services

a/Director Paul Lyon

National Science Data Management
CHS National Production Support
Application Development
Oceanographic Data Processing and
Archive
Climate Change Adaptation Program

Products & Services
Director Laurent Tardif

Client Services
Production
Publishing
Distribution



Challenges and Initiatives

- Supporting safer transportation systems
- Supporting continued growth in the marine transportation sector, particularly in the North
- Collaborating with other government and private sector partners
- Providing and maintaining quality and timely products and services



Safer Navigation Systems

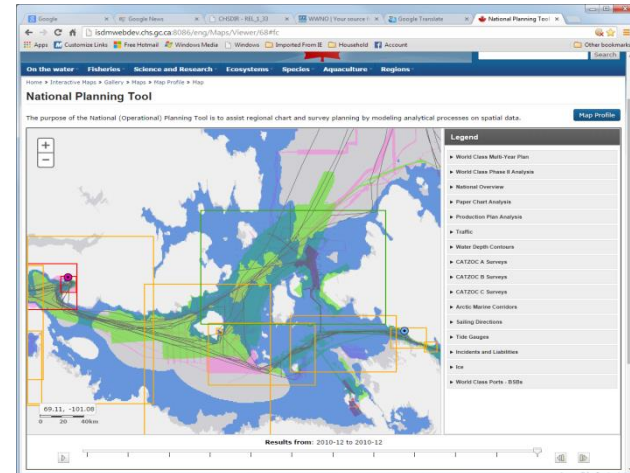
- Economic Action Plan 2012 announced measures to create a World-Class Tanker Safety System (WCTSS)
 - Key components are: Prevention, Preparedness and Response, and Liability and Compensation
 - Prevention includes “a modern and charted navigation system”
 - Phase I: measures and reviews/analyses to strengthen marine oil spill prevention, preparedness, and response
 - Focus on Kitimat and laying the groundwork for the Arctic
 - Phase II: measures to strengthen marine oil spill prevention, preparedness, response, and liability and compensation south of 60°N
 - Outcomes of WCTSS initiatives benefit all marine transportation
- Continuous Vertical Datum for Canadian waters



Supporting Continued Growth in the Marine Transportation Sector

- CHS is implementing a national planning tool that identifies priority areas based on multiple factors for surveying and charting to form the basis of a multi-year operational plan

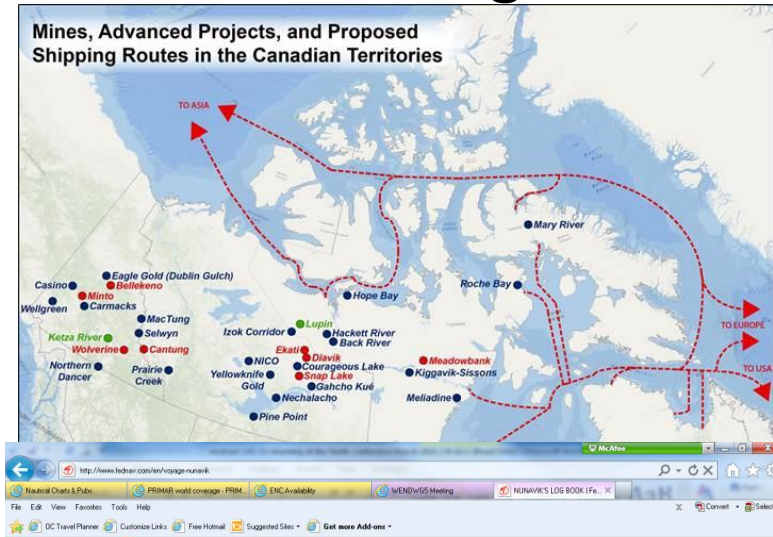
E.g. Source hydrographic data, traffic, depth, seafloor complexity, type of cargo, protected areas, ice, age of chart, etc



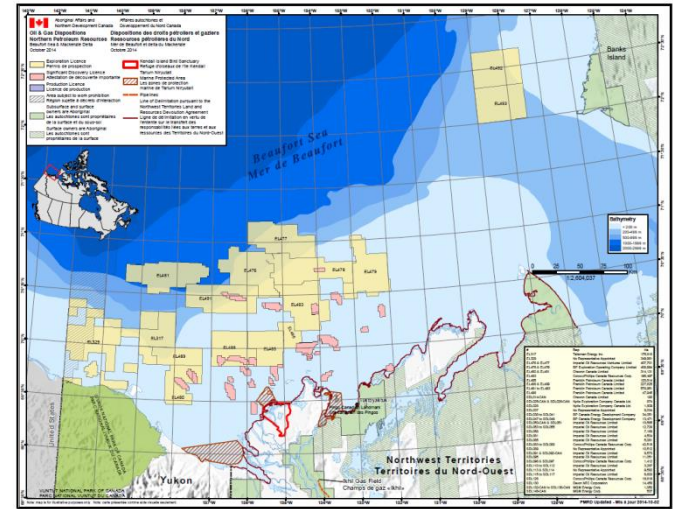
- Unprecedented input from, and collaboration with, CCG, other Departments (e.g. TC) and other organizations when gathering and analyzing data
- Planning tool linked to WCTSS and GoC's Northern Strategy initiatives



Growing and Changing Needs in the North



There is significant potential for mining and oil & gas in the North



FEDNAV DELIVERING A HIGHER STANDARD

NUNAVIK'S LOG BOOK

ARRIVAL AT DESTINATION
 The MV Nunavik recently completed its historic voyage through the Northwest Passage. We wish to thank Captain Randy Rose and his crew for their safe and efficient navigation, Tim Keane and Gary Bishop for eloquently sharing this adventure with us, valued customer, Canadian Royalties, our Fednav Arctic team in Montreal, and our faithful readers. This project has been a memorable one for us all, thank you for following our journey. Your friends at Fednav

Nordic Orion (Danish Flag)



THE GLOBE AND MAIL

Search: News & Quotes | Jobs

Business Investing Sports Life Arts

Columnists The Munk Debates

1 month for just 99¢

MICHAEL BYERS
 Canada's Arctic nightmare just came true: The Northwest Passage is commercial

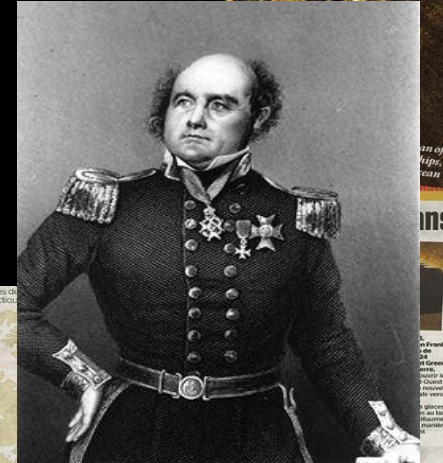
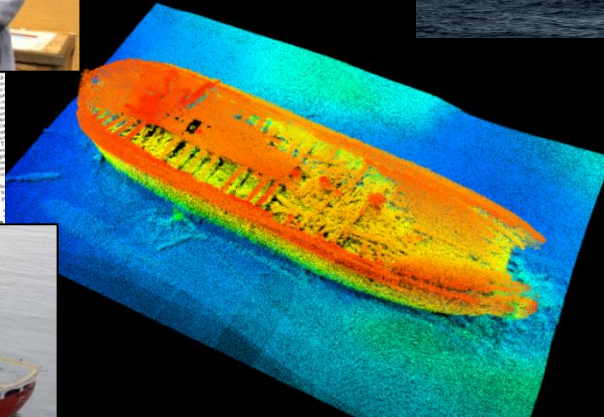
MICHAEL BYERS
 Special to The Globe and Mail
 Published Friday, Sep. 20 2013, 10:26 AM EDT
 Last updated Friday, Sep. 20 2013, 2:41 PM EDT



Collaboration

- Collaboration increasingly recognized as a way to amplify CHS' efforts, working with both public and private sector entities

- Example of the Franklin search





Providing and Maintaining Quality and Timely Products

- Applying people and resources to high priority initiatives
 - E.g. Addressing needs in the North while supporting high-traffic waterways in southern waters
- Data management
 - Managing and processing data in a timely fashion
- Accessibility
 - Integrating CHS&OS data into the GoC's Open Data initiative
 - Making data more discoverable
- Creating working relationships with other government agencies (e.g. CCG, Transport Canada, DND) and outside organizations is an effective way to meet the needs of Canadians



Thank you.

For information please contact:

Mr. Denis Hains

denis.hains@dfo-mpo.gc.ca

chsinfo@dfo-mpo.gc.ca

shcinfo@dfo-mpo.gc.ca