

Pêches et Océans Canada

Fisheries and Oceans Canada





- Introduction
- Why use data services ?
- Water Levels
- Surface Currents (S-111)
- High Definition Bathymetry (S-102)
- Projects underway
- Next steps
- Conclusion





Introduction

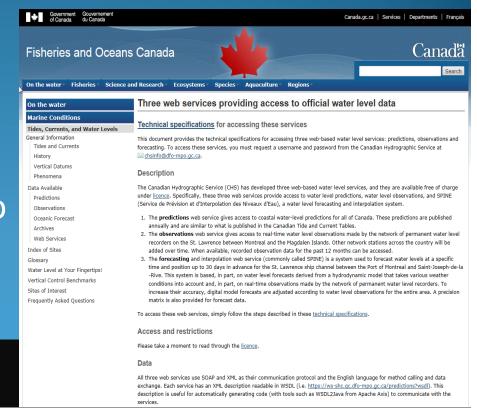
- E-Nav is the buzz word
- We need fuel if we want E-nav
- Expectations are high, ressources are thin
- Connectivity is here now
- Better data, informed decisions
- From static to dynamic information





Success of Web services for water levels

- One service, many clients
- Development is minimal
- Support one pipe instead of many custom solutions
- Modifications can be done to the infrastructure without any impact on the service





Clients

- Groupe Ocean
- St-Lawrence Global Observatory
- Ministère Sécurité Publique Québec
- Ports
- OMC International
- Canadian Coast Guard

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Case study: Ministère Sécurité Publique

Publié le 14 avril 2014 à 00h00 | Mis à jour à 08h30

Laval craint des inondations



Le niveau élevé de la rivière des Mille-Îles inquiète les riverains PHOTO: ROBERT SKINNER, LA PRESSE

After:

- Specification to access the service
- The client grab the information he wants, no CHS intervention needed
- Dynamic link
- Secure transfers



PORT MONTRĒAL

Pêches et Océans Canada

Fisheries and Oceans









WATER LEVEL:

2014/04/07 09:20 .71 M/ 02'04" relative to chart datum

Check the water levels map

ARRIVALS AND DEPARTURES

Check the Port's vessel traffic Check vessel traffic on the St.Lawrence River

OUR PUBLICATIONS





WEATHER



MAP OF THE PORT



Map of the Port with vessels in real time

NEWS

Mozambican MiGs stuck in Germany Suite

HHLA brings forward parking space expansion at Container Terminal



BUSINESS ACTIVITIES AND RECREATION CRUISES ABOUT THE PORT COMMUNITY



ECONOMIC HUB



SUSTAINABLE DEVELOPMENT



MARINE TRAFFIC



CLIMATIC CONDITIONS

LOCAL HOUR

QUÉBEC 8:5411

WEATHER

MONDAY 7 APRIL CURRENT TEMPERATE CURRENT TEMPERATURE 0C

> Partly Cloudy Day MAX / 4 MIN / -2 Sunrise 06:13 AM Sunset 07:22 PM

TUESDAY 8 APRIL Rainy MAX / 3 MIN / 2 Sunrise 06:11 AM Sunset 07:23 PM Last Received Data 2014/04/07 at 08:04

MONTANTE NEXT TIDE HAUTE 12:45

W 2 km/h

WATER TEMPERATURE

0.4C (32.8F)

TIDES

VVIND

(1 kts)

HUMIDITY

82%

BASSE 20:42

PRESSURE

102.1kPa

01/08/2014

TRUE SUCCESS FOR THE .. Over 200 people gathered today for the 2014 edition of the Gold-Headed Cane held at Port of Québec cruise terminal...

John R. Porter will chair the advisory committee whose mandate is to recommend to the Port the

best way to ensure the harmonious visual integration of the two domes of the new wood pellet terminal in Anse au Foulon...

ADVISORY COMMITTEE TO ..



LATEST

NEWS

01/13/2014

Belle Innovation pour l'Industrie maritime Show Summary





CHS Servox system

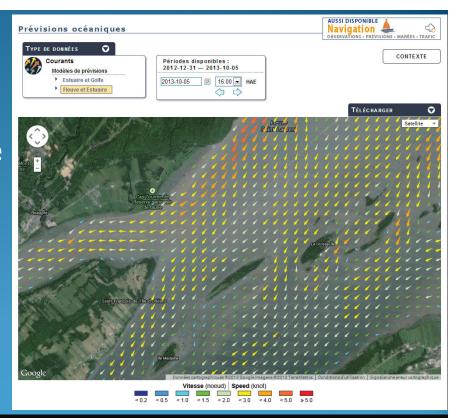
- Phone system to access water level predictions and observations. 1-877-775-0790
- Need to update the technology toward Interactive Voice Response(IVR) system.
- COST software solutions are able to connect to web services.
- Even for internal needs we found out, Web services are a good solution.





Surface Currents

- Currents Models
- Outputs in XY, direction, intensity, time
- Observation, Forecast, Prediction
- Resolution, spatial, temporal
- Improved ETA
- Squat Calculation (SOG-Surf Cur = SOW)
- Model can continue to improve without change to the service







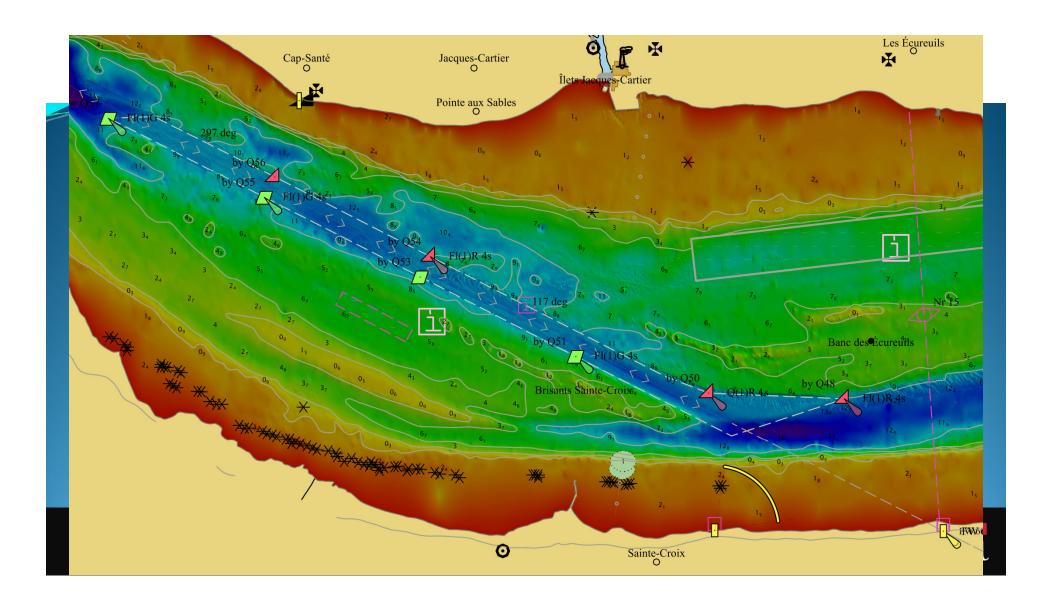
Surface Currents S-111

- IHO Working Group (SCWG)
- To develop standards for the delivery and presentation of navigationally significant surface current information. This information will be used with Electronic Navigational Charts (ENCs) in an Electronic Chart Display and Information Systems (ECDIS) or in an Electronic Charting System (ECS) as an aid to navigation.



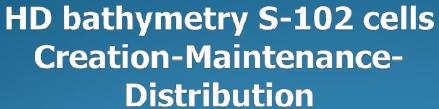








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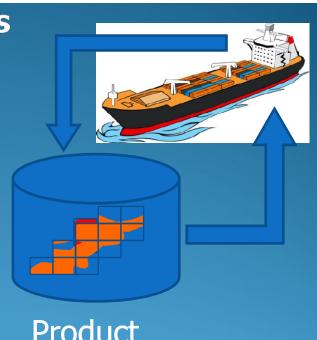
















Enav projects

- Simulation Center
- Seaway Draft Information System DIS
- St-Lawrence Pilots
- Port of Montreal OMC international
- Canadian Coast Guard





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Navigation By Location Data Catalog About this Portal Participate

Home > E-Navigation > Maritime Information Portal

Navigation By Location



View all the available maritime information for every canadian main waterways. The viewable content is supplied directly from official source agencies.

Connect to Services



Make a direct connection to many of our maritime services using popular Geospatial software. These services are provided using the Web Map Services protocol.

Download Datasets



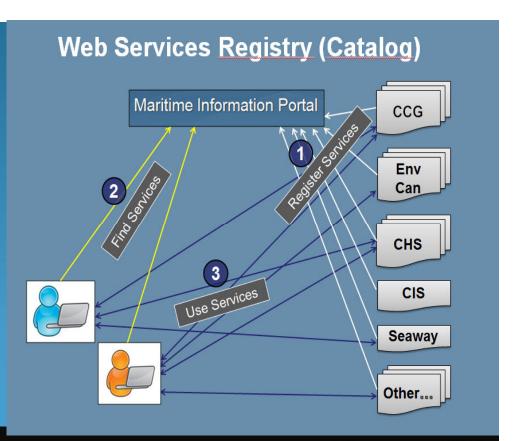
News

Select and download datasets directly from the portal's extensive Data Catalogue. Datasets are available in many different formats, for most maritime services across Canada.

View Interactive Map



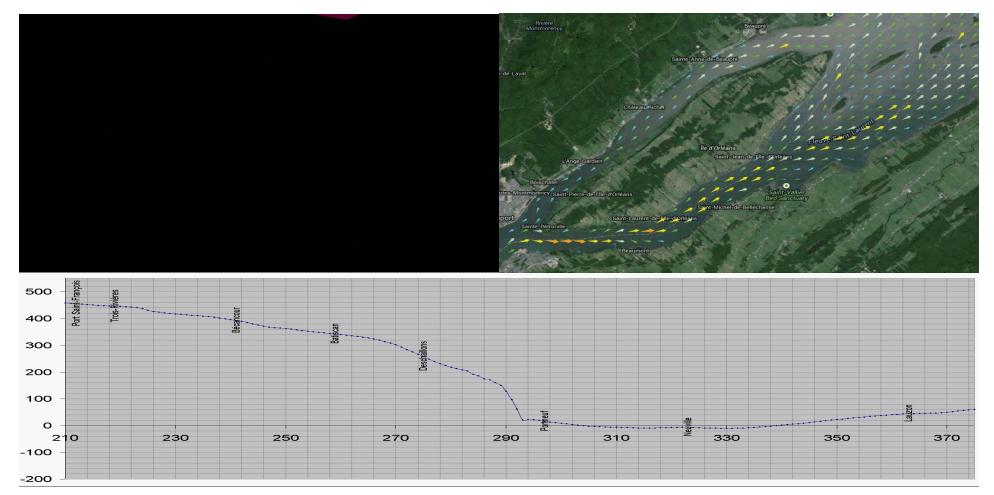
Interact and visualize maritime services directly on our interactive map. You can zoom, pan, show or hide layers, and query data directly using the portal's Geographic Information System.







Fisheries and Oceans Canada





Conclusion

- Standards and services are in development now and Canadian Hydrographic Service is part of it.
- The marine community must get involve so we will are relevant services that are inline with the needs.
- Technology and especially broadband will completly change the way we exchange data.
- From Static to Dynamic information

