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Canadian Hydrographic Service

**SCWG 1 MAY 2013**  
**CANADA STATUS**

# MY PART OF THE WORLD

Data SIO, NOAA, U.S. Navy, NGA, GEBCO  
Image IBCAO  
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# Items to cover

- ① Why are we involved in that stuff
- ① What we did
- ① Where we stand now
- ① Where we want to go

# Why are we involved in that stuff


- St-Lawrence system is influenced by strong currents
- Models exist but use is limited. We have a regional currents atlas(paper format) that shows model results.
- S-102 gridded bathy standard adopted by IHO in 2012.
- E-Nav initiatives

# What we did

- ⦿ Contracted Idon Technologies to write a S-10x draft specification to be presented at TSMAD24.
- ⦿ HSSC decided to form SCWG
- ⦿ Draft spec is written following ISO language, not easy to understand...
- ⦿ We have web services for our surface currents web services, WMS, WFS, WCS
- ⦿ St-Lawrence Global Observatory is using these services.

## Ocean Forecasts

ALSO AVAILABLE  
**Navigation**   
OBSERVATIONS • FORECASTS • TIDES • TRAFFIC

DATA TYPE 



**Currents**

Forecast Models

- Estuary & Gulf
- River & Estuary

Available Periods:  
2012-11-19 — 2013-05-18

2013-05-17



12:00

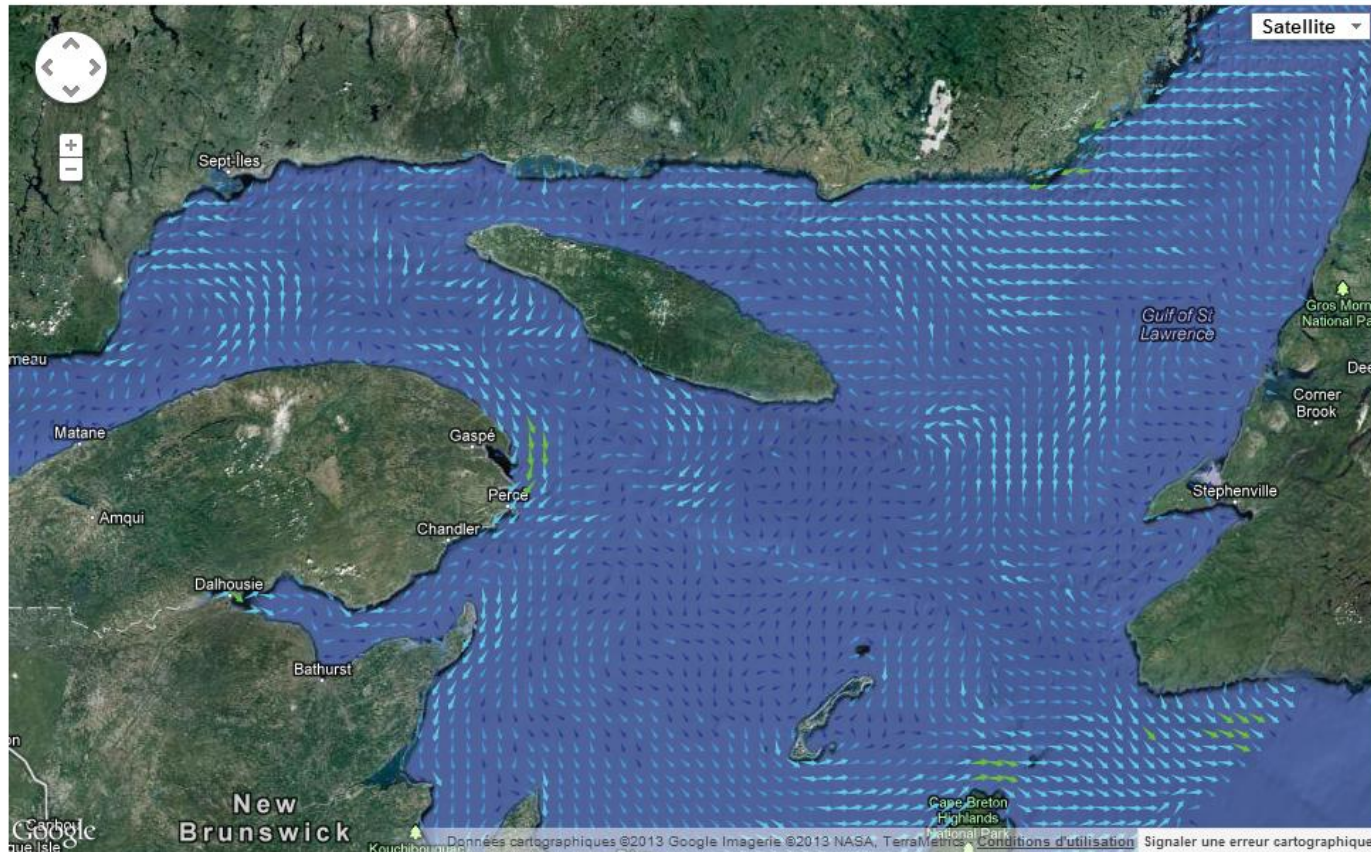


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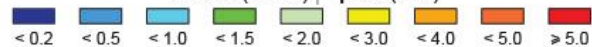


CONTEXT

Download 



Vitesse (noeud) | Speed (knot)



DATA TYPE



Currents

Forecast Models

Estuary & Gulf

River & Estuary

Available Periods:  
2012-08-01 — 2013-05-18

2013-05-17



12:00



EDT

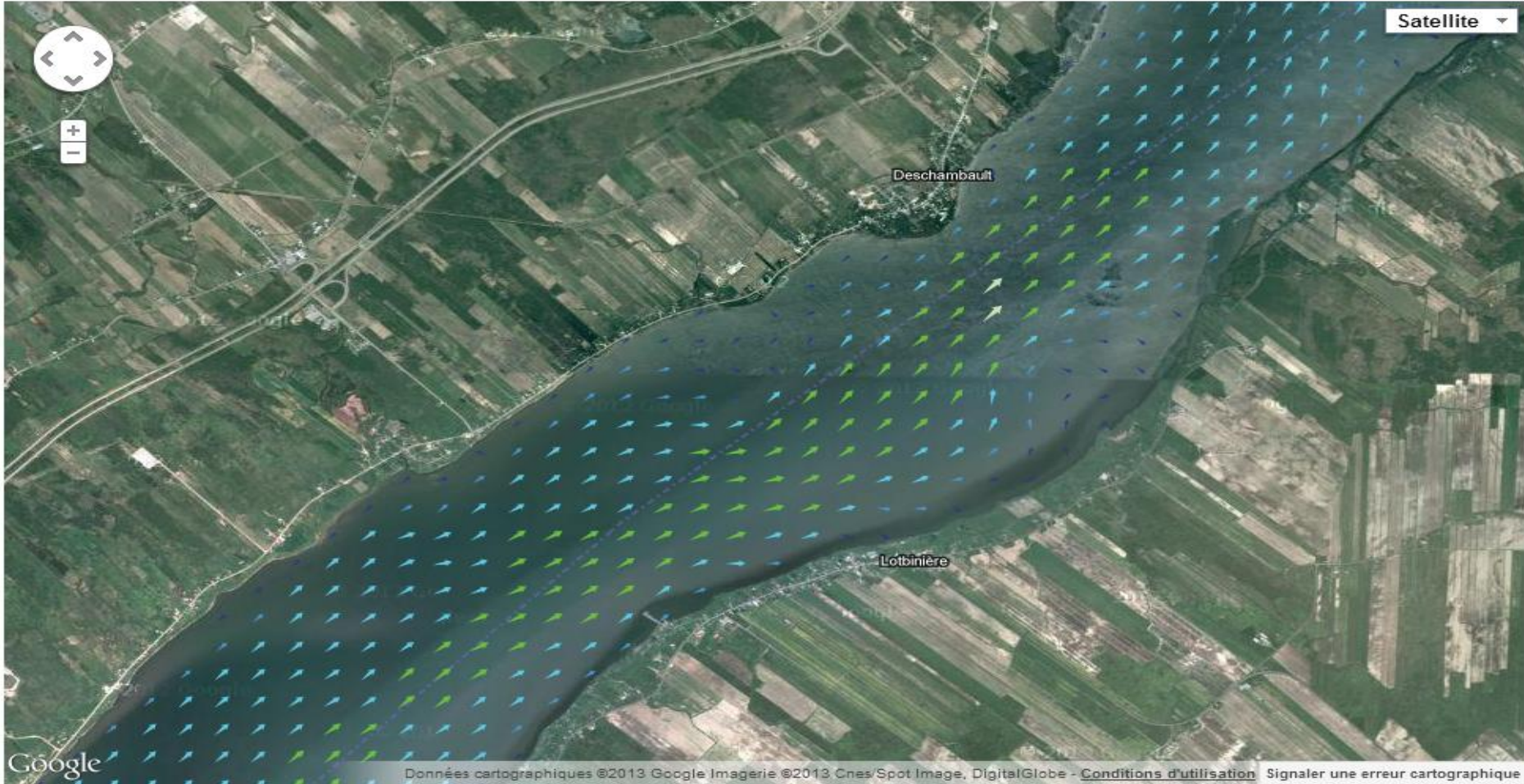


CONTEXT

Download



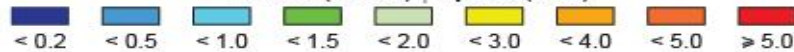
Satellite



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Vitesse (noeud) | Speed (knot)



# Where we stand now

- ⦿ We have some regional experience
- ⦿ Many currents models runs elsewhere in Canada, many potential area.
- ⦿ West Coast is really tricky, high resolution required
- ⦿ No ECDIS manufacturer is using our currents at the moment, having a standard should help make this happen
- ⦿ Many questions are still left.
  - Scales (re-use S-102 definition?)
  - Temporal resolution
  - Versions...

Other fields of expertise have probably already face thoses issues like meteorology for wind speed and direction.



# Where we want to go

- ⦿ We want a standard so we will have a way to disseminate our surface currents model results.
- ⦿ We want to focus on web services. One pipeline can feed many users that have their own portrayal.
- ⦿ Enav is really the driver at the moment.
- ⦿ We want to use the S-100 momentum to get this done.
- ⦿ At some point, ECDIS/ECS manufacturers will need to get involved.
- ⦿ We aim for wireless automatic updating for surface currents like an antivirus.

Let's get to work.

