





## <u>Plan</u>

- S-111 Surface currents specification status
- Tests Datasets
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- Portrayal examples
- Next steps

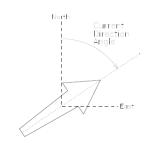




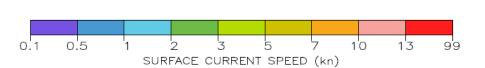
# status

## S-111 Surface currents specification status

- -36 metadata entries
- -Supports point, point set, trajectory, grids, unstructured grids
- -Supports predictions, forecasts, observations
- -S-111 to be submitted to IHO members states in 2017



Step	Minimum	Maximum	Appx.	Colour Scale Intensity			Displayed
	Speed (kn)	Speed (kn)	Interval (kn)	Red	Green	Blue	Colour
1	0.10	0.49	0.4	118	82	226	
2	0.50	0.99	0.5	72	152	211	
3	1.00	1.99	1	97	203	229	
4	2.00	2.99	1	109	188	69	
5	3.00	4.99	2	180	220	0	
6	5.00	6.99	2	205	193	0	
7	7.00	9.99	3	248	167	24	
8	10.00	12.99	3	247	162	157	
9	13.00	99.99	87	255	30	30	











### S-111 Tests Datasets on IHO website now

#### US

#### Time series at a few fixed locations

Fictive Data
4 stations
6 minutes interval

#### Regularly gridded data

Lake Ontario 25 x 61 grid 6 hours of data

#### Irregularly gridded data

Chesapeake Bay 1560 data points 6 hours of data

#### Argo surface drifter data

Pacific 384 data points

#### Canada

#### **Hindcast of West Coast**

72963 data points 24 hours of data 30 Mo

#### **Hincast of East Coast**

27016 data points 24 hours of data 10 Mo

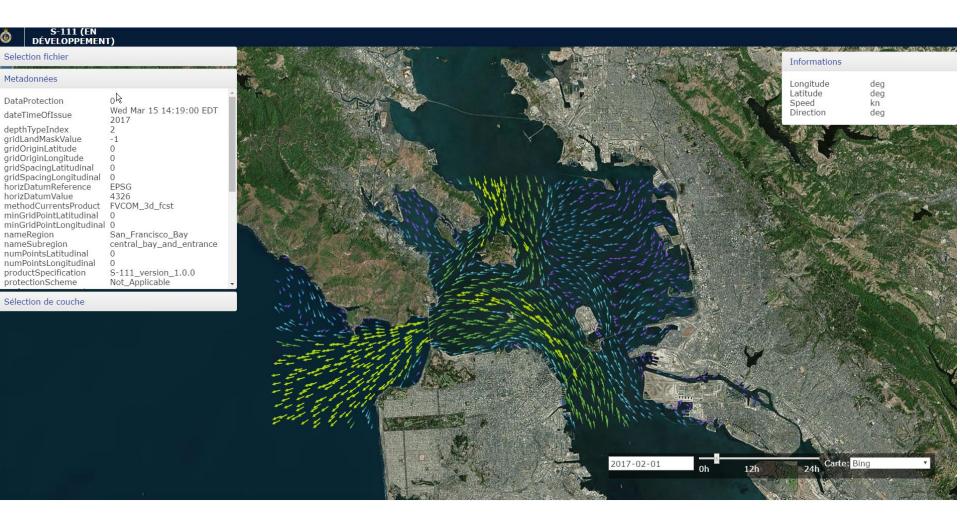
## 2017 Currents predictions of all stations in Canada

23 stations15 minutes interval12 Mo, comp. 1.5 Mo





## Use of Korea S-100 viewer and SLGO validator







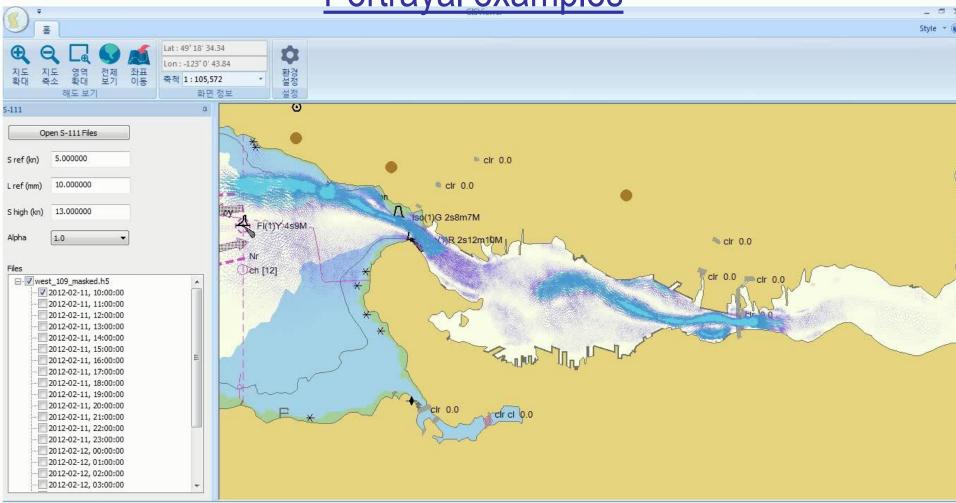
## Use of Korea S-100 viewer and SLGO validator







Portrayal examples

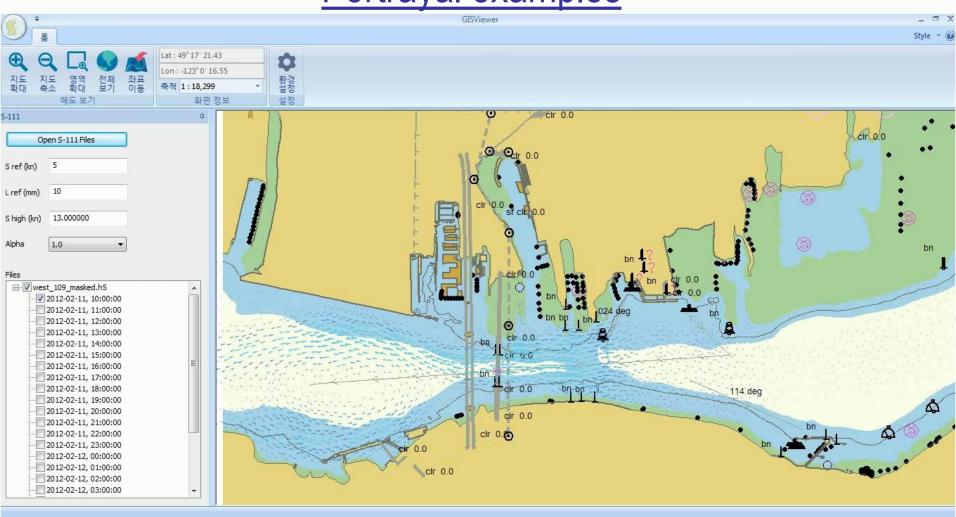








Portrayal examples







## Portrayal examples







### Next steps

TWCWG2 in Canada in May
Propose S-111 version 1.0 to members states
CHS to support manufacturer work on S-111/S-102/S-104 via simulation center (pilotage training facility)
Re-use same file structure for Water Levels

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