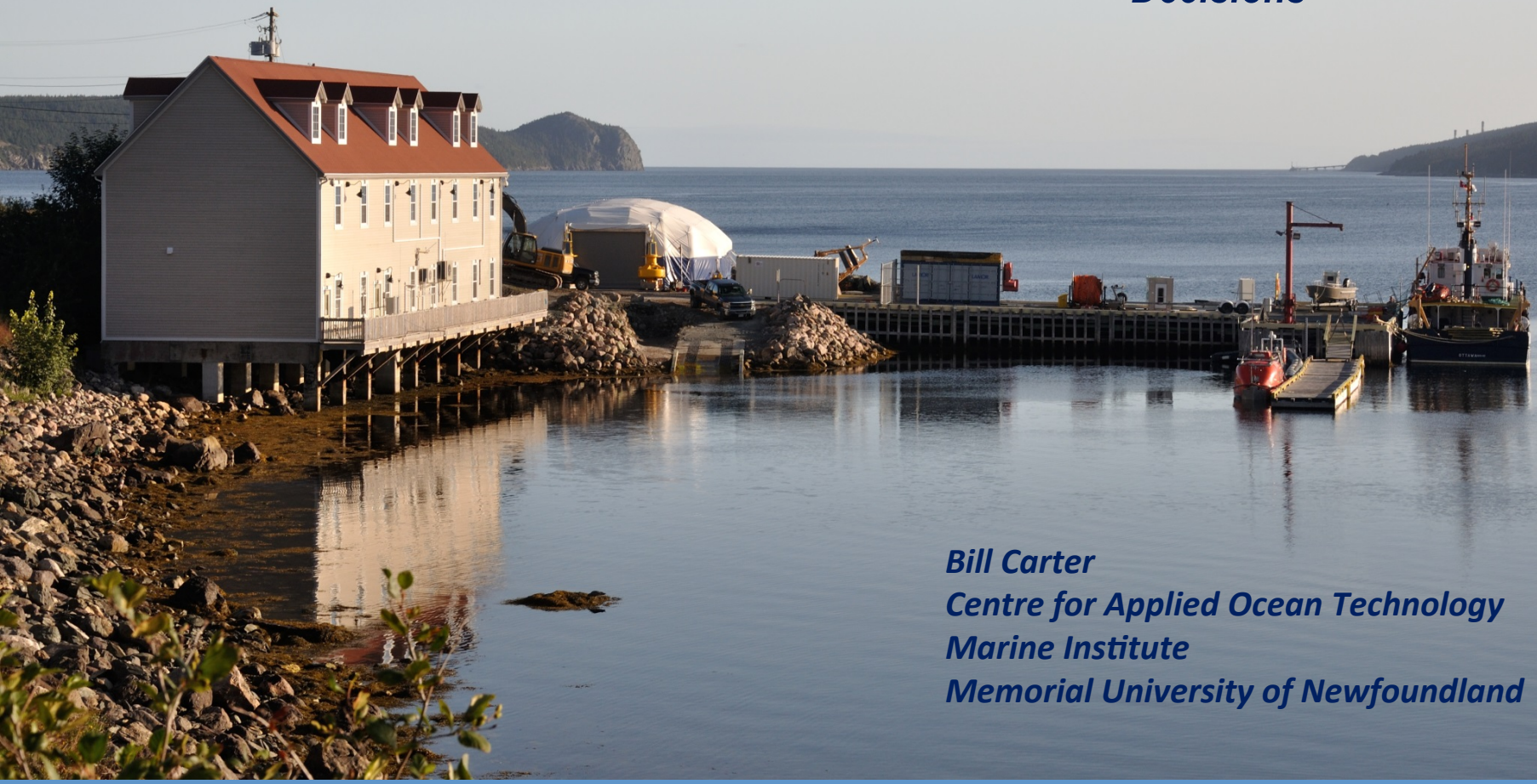
SmartBay to SmartAtlantic

www.SmartAtlantic.ca

'Better Information....Better Decisions'



Bill Carter
Centre for Applied Ocean Technology
Marine Institute
Memorial University of Newfoundland

MEMORIAL UNIVERSITY

MARINE INSTITUTE

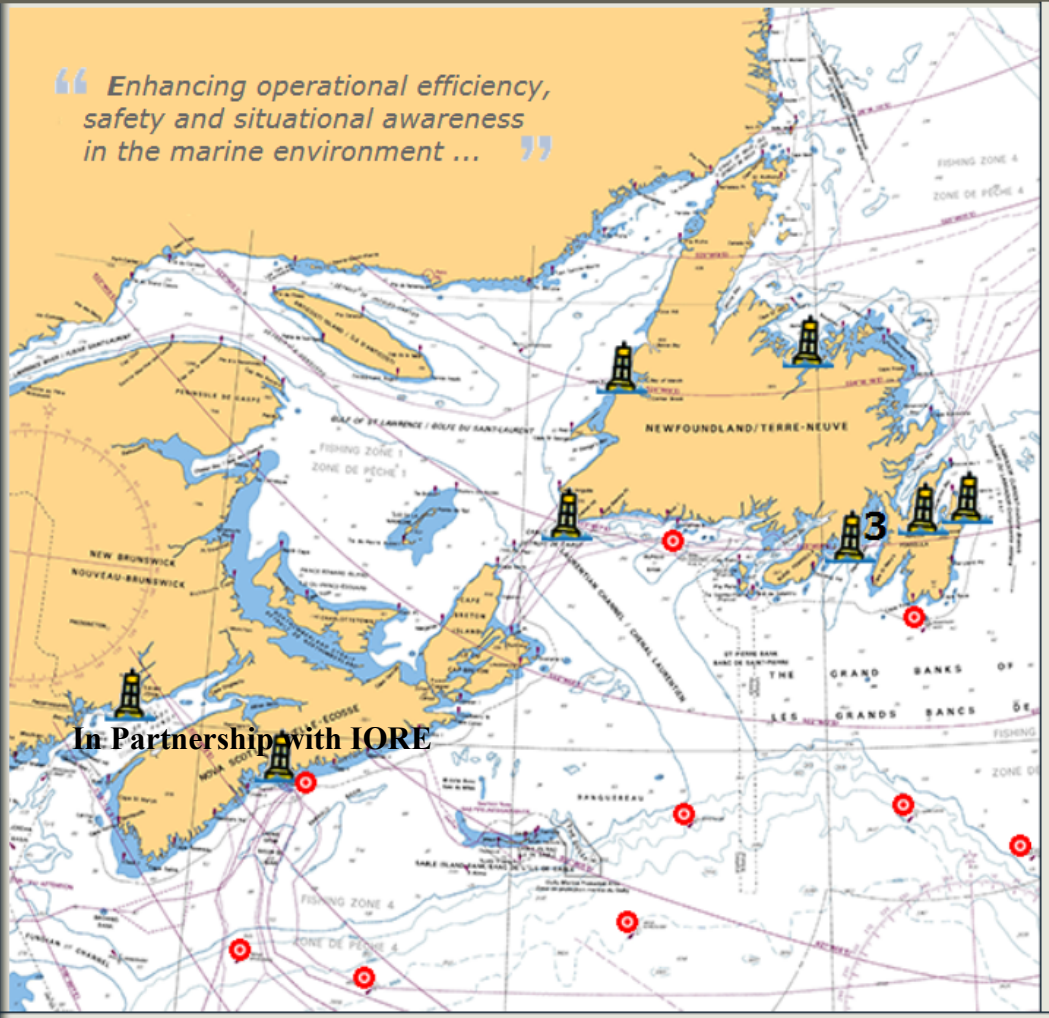
SmartAtlantic | Exploits | Bay of Islands | Conception Bay | Halifax | Placentia Bay | Port Aux Basques | Saint John | St. John's

SmartAtlantic Alliance

Nov 2/14 – Nov 2/15: Ave. 13,446/mth or 442/day. Ave. session: 2.23 minutes:

- About the *SmartAtlantic Alliance*
- Terms of Use
- Contact Us

Better Information ... Better Decisions



In Partnership with IORE

SmartAtlantic Notices

06.Dec.2014
Bay of Islands Buoy - Please Note: As of Saturday December 6, 2014 the buoy has been removed from service for the season. We will deploy again in the Spring of 2015.

19.Sep.2014
We are pleased to announce the deployment of our Bay of Islands Met/Ocean buoy on Wednesday, September 10, 2014. Please keep an eye for our new Tide Station information pages installed in Port aux Basques, Corner Brook and

An Initiative of
the Marine Institute of Memorial University of Newfoundland:

MARINE INSTITUTE

MEMORIAL UNIVERSITY

© Marine Institute of Memorial University of Newfoundland. All Rights Reserved. Terms and Conditions

13172 visitors/month (425/day)

Regional and site-specific forecasting for Placentia Bay, Halifax and Saint John

- Buoy Data
- Weather & Tides
- Seabed Mapping
- Industrial Sites
- PBIM Committee

Advisory
Aquatic Invasive Species in NL Waters

Weather and Tide Forecasts

SmartBay Forecasts | Regional Forecasts | About

SmartBay Weather Forecast

Warnings in Effect:

NONE

Placentia Bay Marine Forecast issued at 04:30 Tue 17 Nov 2015

25 to 30 knot northerlies this morning as a stalled low slowly departs to the east. Winds gradually diminish to 15 to 20 knots by Wednesday morning as high pressure builds over the Maritimes, then persist into Thursday morning as the high tracks over the Island. Good visibility through the forecast period. Temperatures near plus 3 this morning rise to plus 5 this afternoon, then fall to between plus 2 and plus 3 Wednesday morning and persist into Thursday morning.

Next Placentia Bay Marine Forecast will be issued at 10:30

Site Specific Forecasts

- The blue outline of the Bay represents the Placentia Bay Marine Forecast coverage area. For a Site-Specific Marine Forecast **click a site forecast area on this map**.
- The **circles** represent site-specific forecast coverage areas.
- **Note:** The Placentia Bay Marine Forecast is updated four times daily, at 4:30 AM/PM and 10:30 AM/PM, from October 1st to April 30th. During the months of May to September the Placentia Bay Marine Forecast is issued twice daily at 10:30 AM/PM. The Site-Specific Forecasts for buoy locations are issued twice daily at 6:30 AM/PM throughout the year.

© Marine Institute of Memorial University of Newfoundland. All Rights Reserved. Terms and Conditions

.php - Internet Explorer

smartatlantic.ca

http--mi-ISONew-webproce... Web Slice Gallery

SmartBay

Marine Site Forecast for SmartBay

Forecast for Placentia Bay Pilot Boarding Station Buoy

amec foster wheeler

Issued At: Tuesday 17 November 2015 0630 NST
Valid Until: Wednesday 18 November 2015 1730 NST

Warning: NONE

Strong northerlies this morning as a stalled low over the Grand Banks slowly departs to the east. Winds diminish to moderate to strong Wednesday morning and persist into evening as high pressure builds over the Maritimes, then veer to northeasterlies Thursday morning as the high tracks over the Island.

Good visibility through the forecast period.

Seas near 2.0 metres this morning subside to near 1.0 metres by evening and persist into Thursday morning.

Forecast

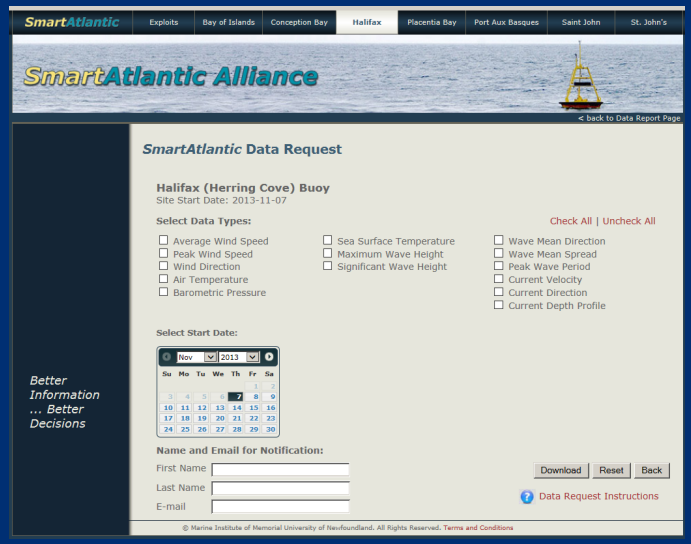
Date	Tue November 17 2015																		Wed 18					
Period	Morning							Afternoon						Evening					Night		AM		PM	
Time (NST)	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	02	05	08	11	14	17
Wind Dir (true/from)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Wind Speed (kts)	26	25	24	23	23	22	22	22	21	20	20	20	20	19	18	18	18	18	18	17	18	17	17	15	15
Max Speed (kts)	33	32	30	29	29	28	28	28	27	26	26	26	26	24	23	23	23	23	23	22	23	22	22	20	20
Wave Sig Hgt (m)	**1.2**	**1.2**	**1.1**	**1.1**	**1.1**	**1**	**1**	**0.9**	**0.9**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.7**	**0.7**	**0.7**	**0.6**	**0.6**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.6**
Wave Max Hgt (m)	**2.2**	**2.1**	**2**	**2**	**1.9**	**1.9**	**1.8**	**1.7**	**1.6**	**1.4**	**1.4**	**1.4**	**1.4**	**1.4**	**1.3**	**1.3**	**1.2**	**1.1**	**1.1**	**0.9**	**0.9**	**0.9**	**0.9**	**0.9**	**1.1**
Tide Height (cm)	51	62	90	128	168	199	215	211	190	155	116	82	62	59	74	102	137	168	188	152	64	96	195	182	84
Temperature (C)	4	4	4	4	4	4	4	4	4	5	5	4	4	4	4	4	4	3	3	3	3	3	3	3	3
Visibility (nm)	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Snow																									
Flurries																									
Showers																									

Outlook

Date	18	Thu November 19 2015				Fri November 20 2015				Sat November 21 2015				Sun 22	
Time (NST)	20	2	8	14	20	2	8	14	20	2	8	14	20	2	8
Wind Dir (true/from)	NNE	NNE	NNE	NNE	ENE	ENE	ENE	ENE	E	E	E	ENE	NE	N	NW
Wind Speed (kts)	16	16	16	15	14	15	16	20	21	22	24	25	21	13	11
Max Speed (kts)	21	21	21	20	19	20	21	25	27	28	30	31	27	18	16
Temperature (C)	2	3	3	4	4	4	4	7	7	7	7	7	7	6	6
Snow															
Flurries															
Showers															

Strive to ensure right information to right people at the right time. Built an effective data storage and sharing capacity

- to OGC standard (sensor observation service)
- Accessible to all via web



However, there remain national and global challenges and opportunities with regard to:

- Data – interoperability, warehousing, sharing.
- Applications – fusion and visualization of complex data
- Institutional – sharing (security/entitlement/ownership)
- Market (business model) – Who pays?

Operating an ocean observation system ….a shot of reality

- *Canada does not have a national ocean observation program - Environment Canada buoy network the closest thing to such.*
- Without a national focus, we have to be careful that we consistently build and operate to standards – avoid an 'orphan' approach
- *the conundrum* ….Support a broad base of users, but leads to a situation where no one user see's it as their role to support the infrastructure
- If it was easy everyone would be doing it

"Sustainability" - the Holy Grail