

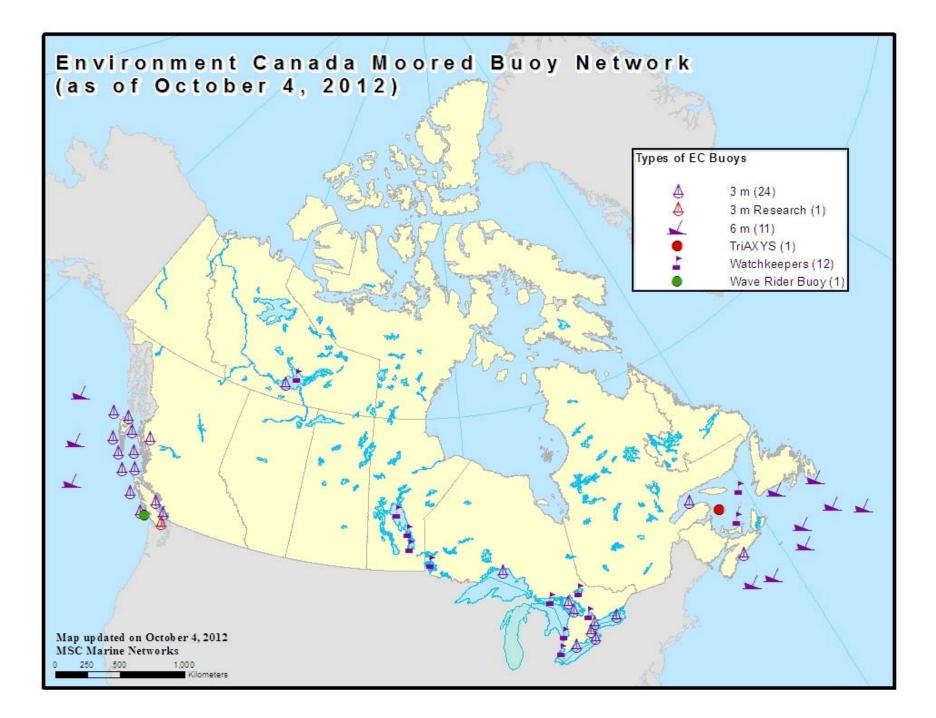


### **National Report for Canada**

28<sup>th</sup> Session of the DBCP – Fremantle, Australia October 2-6<sup>th</sup>, 2012

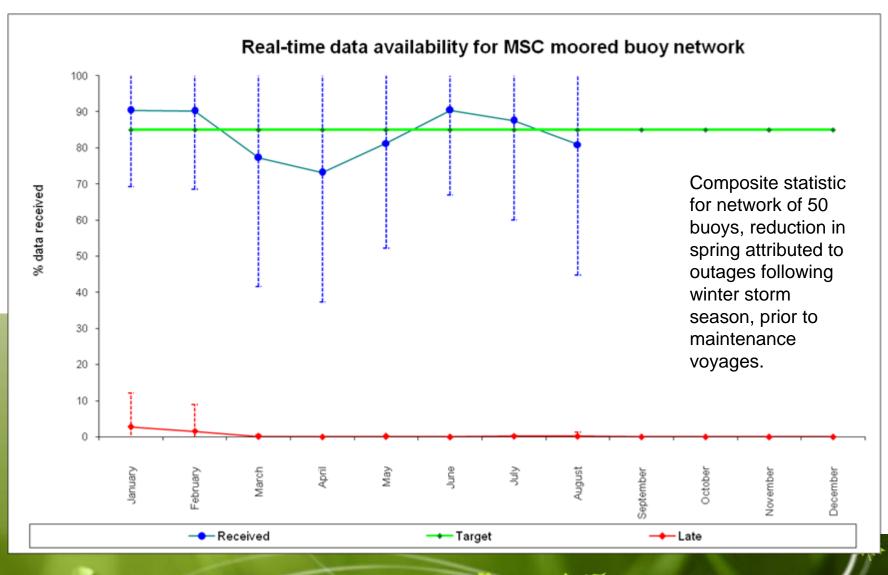
Chris Marshall – National Manager of Marine Networks Environment Canada – Meteorological Service of Canada











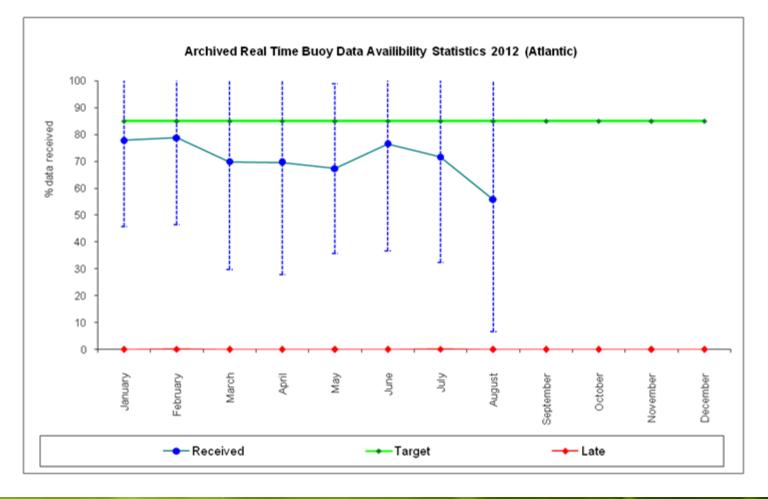
DBCP XXVIII – Fremantle, Australia Sept. 2-6 October 2012



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#### A tale of two coasts...Atlantic



DBCP XXVIII – Fremantle, Australia Sept. 2-6 October 2012



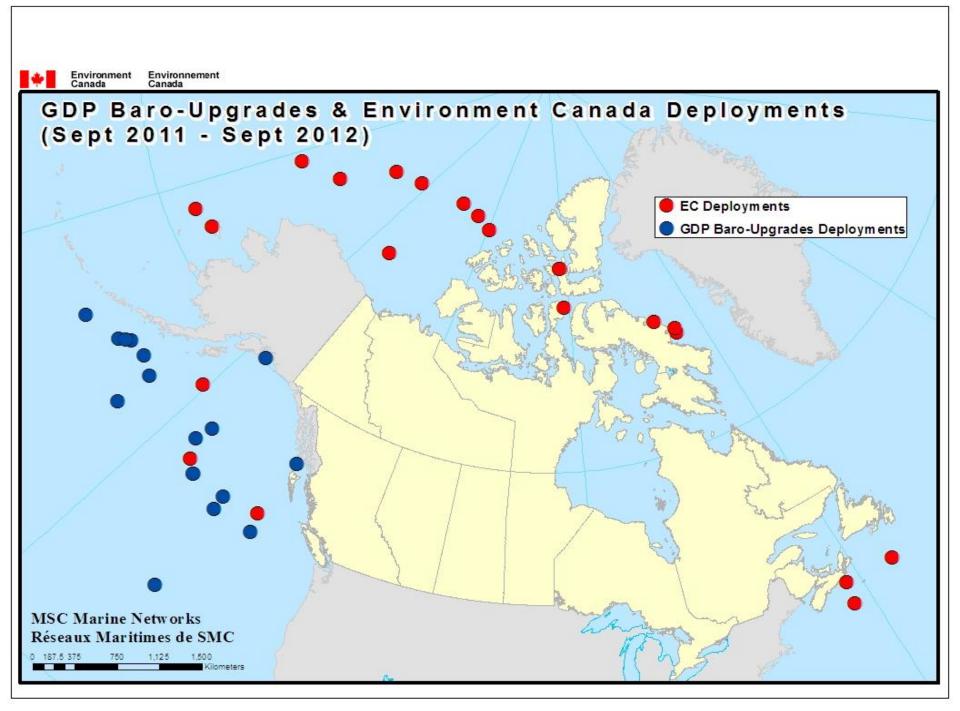
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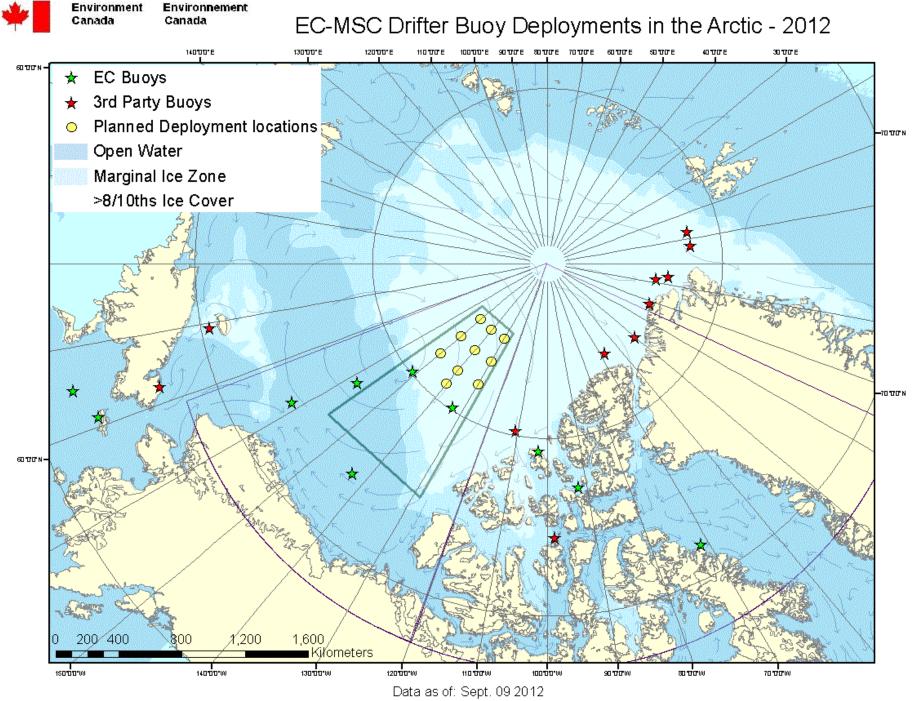


#### A tale of two coasts...Pacific



DBCP XXVIII – Fremantle, Australia Sept. 2-6 October 2012





Prepared on: Sept 18 2012 by Champika Gallage





## Next 12 months <u>Planned</u> Buoy Deployments

	NE Pacific	NW Atlantic	Arctic Basin
Moored Buoys (maintain national network of <u>50</u> buoys)	18	12	
Drifter	5	6	15
Barometer Upgrades	20		
Datawell waveriders	1	1	







#### **Drifter Deployments**

- MSC is ramping up number of ice buoy/beacons as part of METAREA Project --- goal is sustained deployments over the next number years to form the Canadian Arctic Buoy Array (CABA)
- Arctic deployments will be done in collaboration with IABP and other parties to ensure optimal coverage --- all MSC funded ice buoys will have pressure obs.
- **22** buoys deployed in Arctic Basin in 2012 (on-ice and in-water)
  - This has included Air Deployments of ICEX Air buoys via Royal Canadian Air Force C-130
- We have ramped up deployments in North Pacific --- 21 deployed last year, planning for 25 next year
- All MSC funded buoys will use Iridium telemetry (when possible), and be equipped with barometers.









#### **New Initiatives**



- Continue to work with Jou Beh Technologies and Scotia Weather Services to receive and route **third-party** buoy data to the GTS.
  - This includes the O-buoys and met parameters from IMB and other buoys
  - Data not available in BUFR format.
- Continue contribution to **PP-WET** plan deployments of 2 Datawell for in-situ intercomparisons.
- Moving forward with procurement of "Next Generation" Marine Payload --- RFI have been concluded, planning for competitive procurement in Q1 2013. New solution will be used for all moored buoys and ship-based AWS.
- 3 buoys deployed in Gulf of St. Lawrence in support of National Marine lab to help verify wave models in closed basin with variable fetch.
- Planning for deployment of 2 buoys in support of the sailing venue for the PanAM games to be hosted in Toronto in 2015 (buoys required in summer of 2013).





#### **New Initiatives**

- 50% of Moored buoy network now equipped with SUTRON SatLink2 40W GOES transmitter. Expected to roll out to remainder of the network by end of 2012.
- Have worked with AXYS Technologies to integrate Iridium communications into moored buoy platform very promising results.
- Mooring Life Cycle We have had 4 mooring failures in past year, working towards more proactive LCM of moorings.
- Continued collaborating with NDBC:
  - Excellent meeting hosted by NDBC in February this year, EC planning to host NDBC staff in Canada --- opportunities for collaboration
  - Continued interaction between technical staff (NDBC sent a representative to EC National Buoy Meeting last December).





# Issues / Summary

- Continued deployment & recovery of moored buoys by Canadian Coast Guard – <u>critical partnership</u> – ship time at no cost to EC.
- Would like to thank NDBC for their continued support includes technical knowledge exchange, and sharing of expertise.
- Excellent support from AXYS Technologies
- Training/retention of qualified meteorological buoy technicians will be a challenge retirement of key staff, and budget constraints.





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#### Thank-you / Merci!

416-739-4468

Deployment of SVP-B August 2011 on the Grand Banks