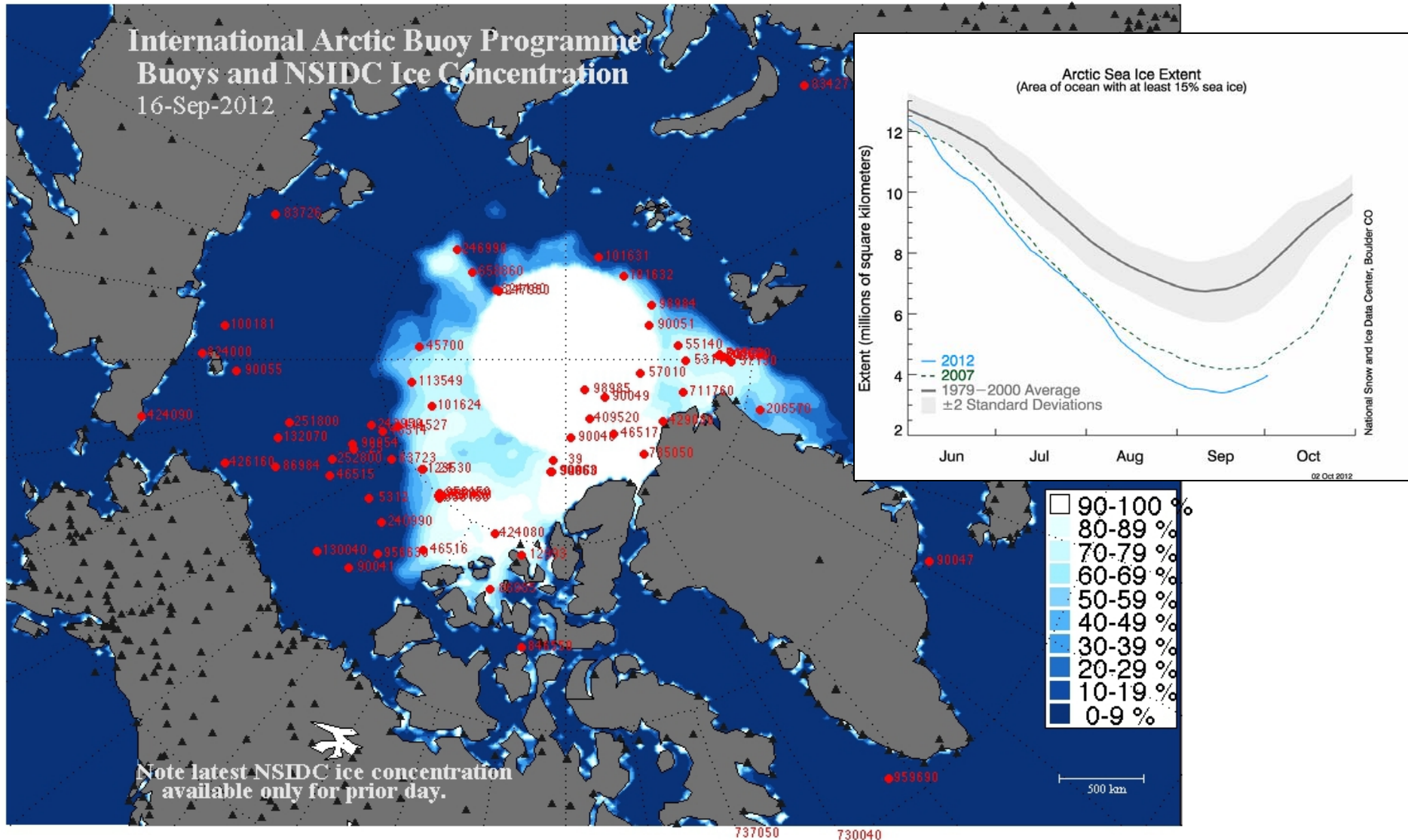


# International Arctic Buoy Programme (IABP) Report for DBCP-28

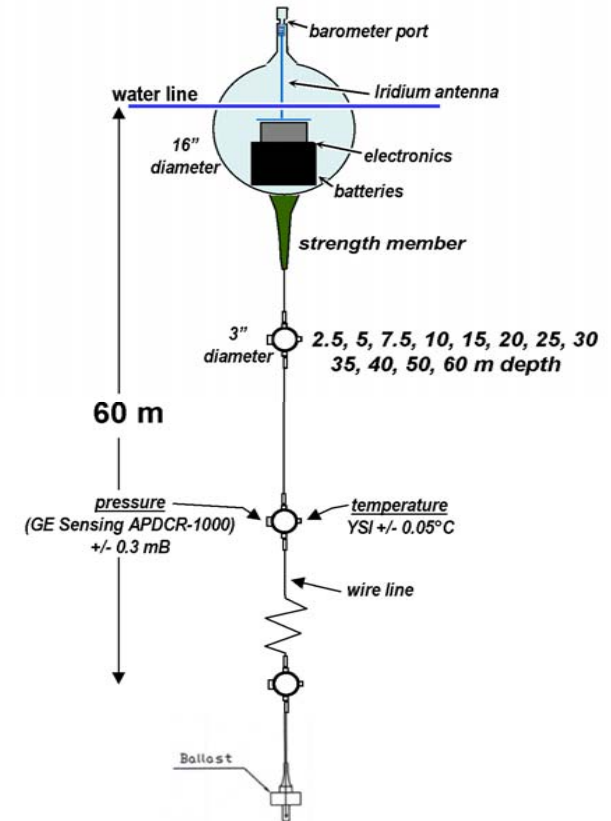
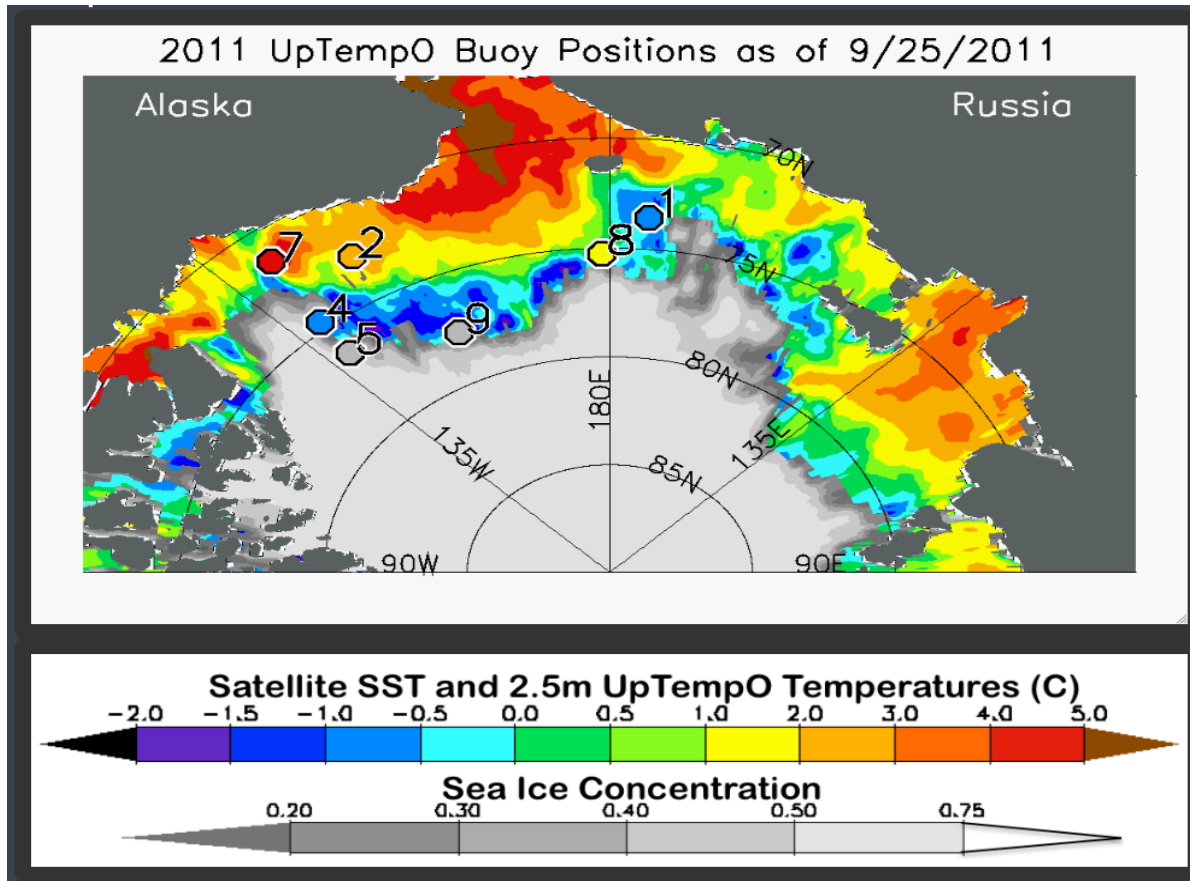
## Executive Committee:

- Chair:** Christine Best, Environment Canada
- Vice Chair:** Christian Haas, York University, Canada
- Members:** Pablo Clemente-Colón, National/Naval Ice Center, USA  
Jean-Claude Gascard, Université Pierre et Marie Curie,  
France  
Takashi Kikuchi, Japan Agency for Marine-Earth Science  
and Technology Center, Japan
- Coordinator:** Ignatius Rigor, University of Washington, USA
- Participants:** 37 Operational and Research Institutions
- Web Page:** [IABP.apl.washington.edu](http://IABP.apl.washington.edu)

# Arctic Sea Ice Extent Record Minimum



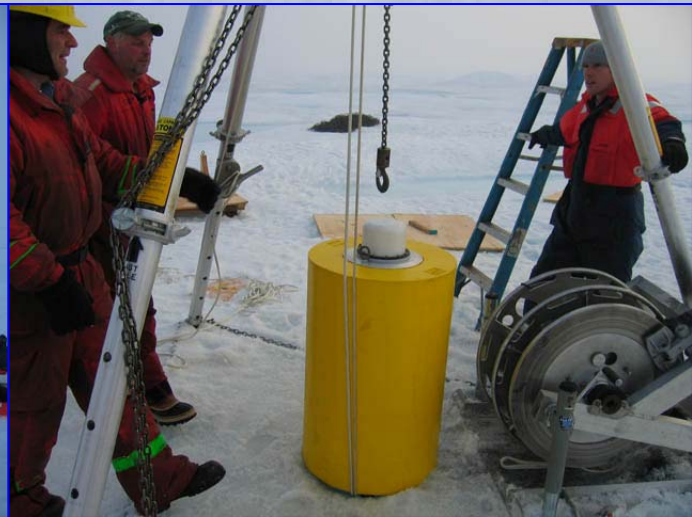
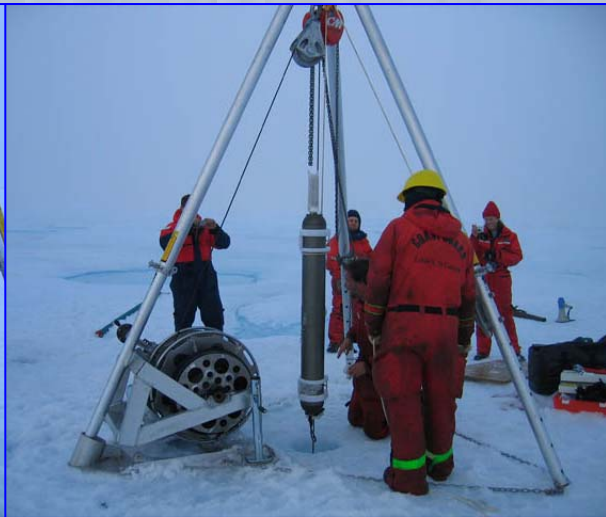
# Upper layer Temperature of the Ocean (UpTempO) Deployments



- Deployed 8 UpTempOs from Amundsen, Araon, Healy, Louie, Laurier in 2011.
- Reynolds SST appears to have a cold bias.
- Testing UpTempOs produced by Marlin Yug, MetOcean, and Pacific Gyre.

# Woods Hole Oceanographic Institute

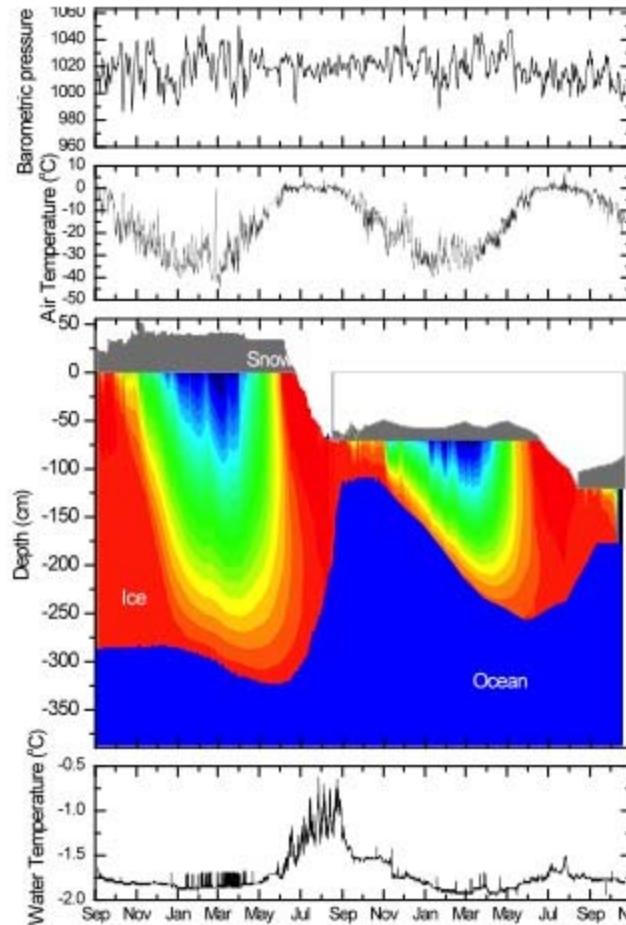
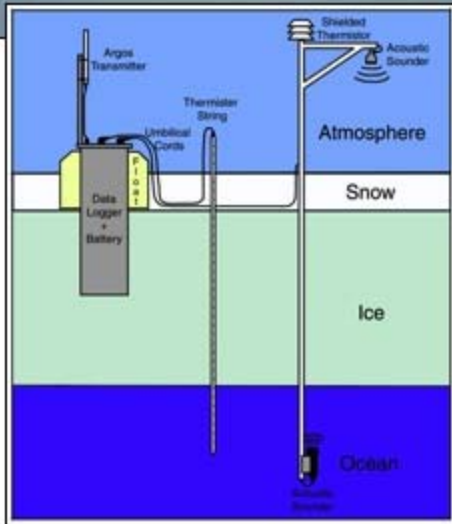
## Ice Tethered (Ocean) Profilers



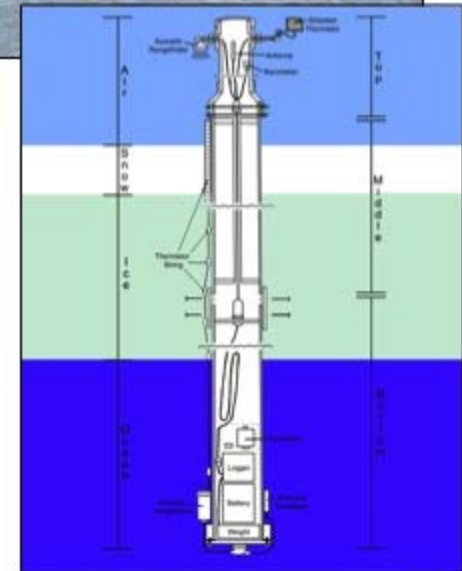
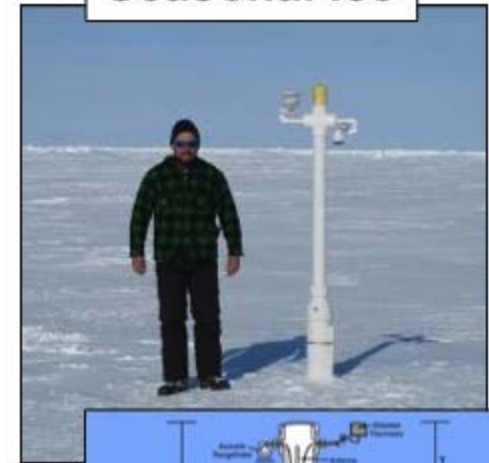
# Cold Regions Research & Engineering Lab

## *Ice Mass Balance Buoys*

**Multi-year Ice**



**Seasonal Ice**



***Observe and attribute change in ice thickness***

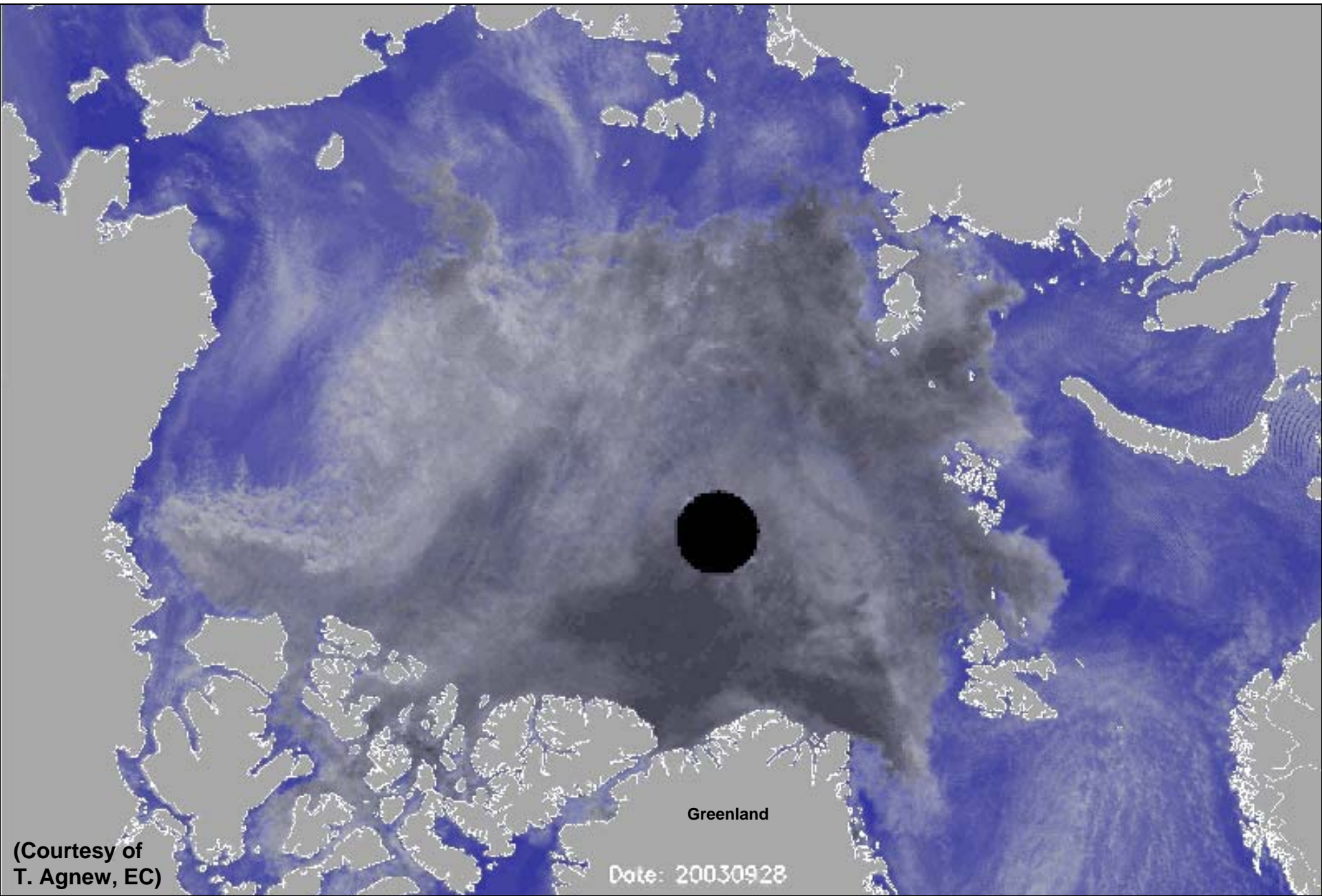
# North Pole Environmental Observatory April to October 2010

NOAA Arctic StarDot NetCam #2 Tue Apr 20 16:05:33 2010 UTC  
Exposure: 1/342 Internal Temp: -8.0°C  
Image © NOAA/PMEL



[http://www.arctic.noaa.gov/gallery\\_np.html](http://www.arctic.noaa.gov/gallery_np.html)

# Arctic Sea Ice: AMSR-E



Greenland

Date: 20030928

(Courtesy of  
T. Agnew, EC)

# Airborne eXendable Ice Beacon

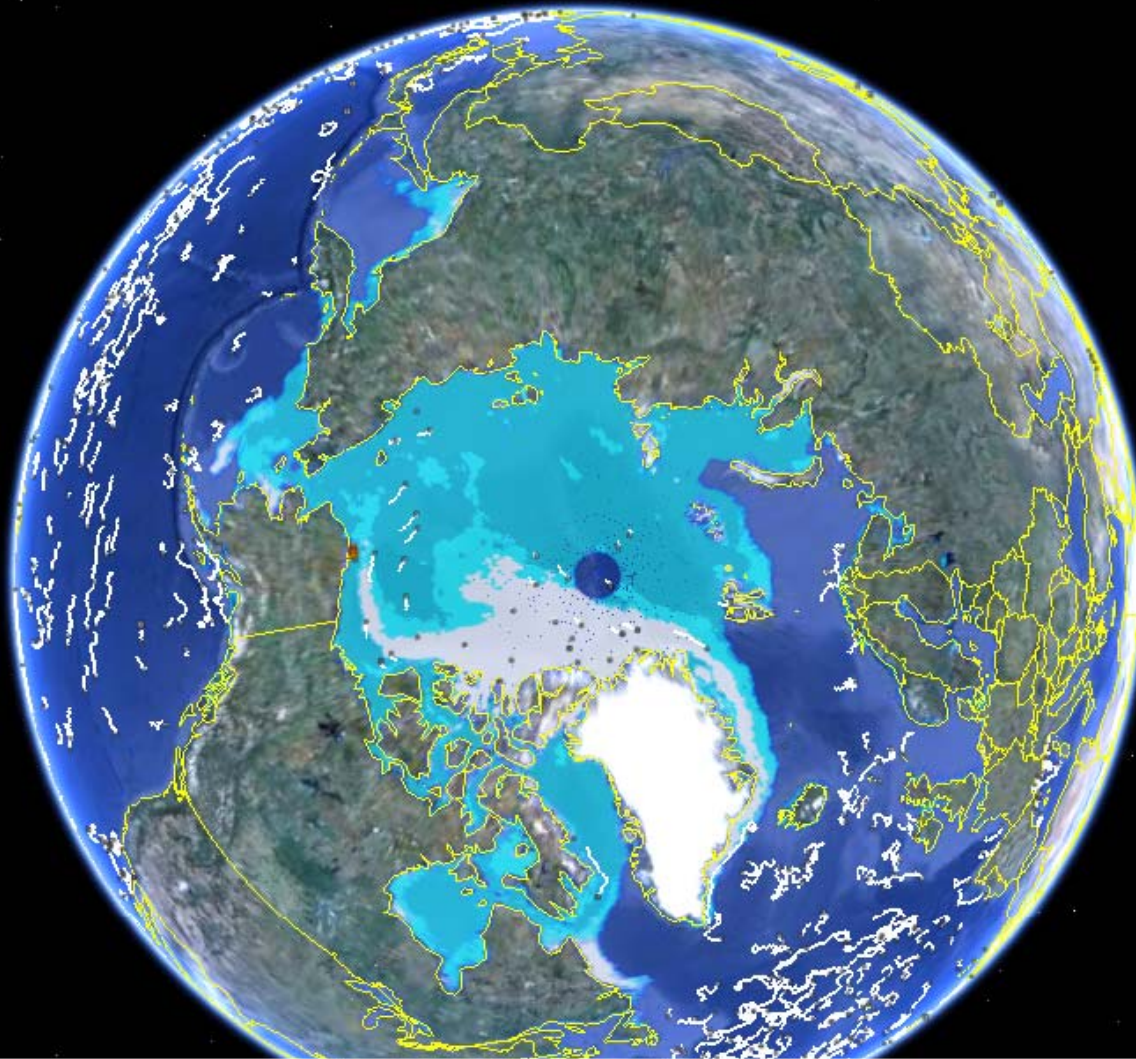




# Airborne eXendable Ice Beacon (AXIB)

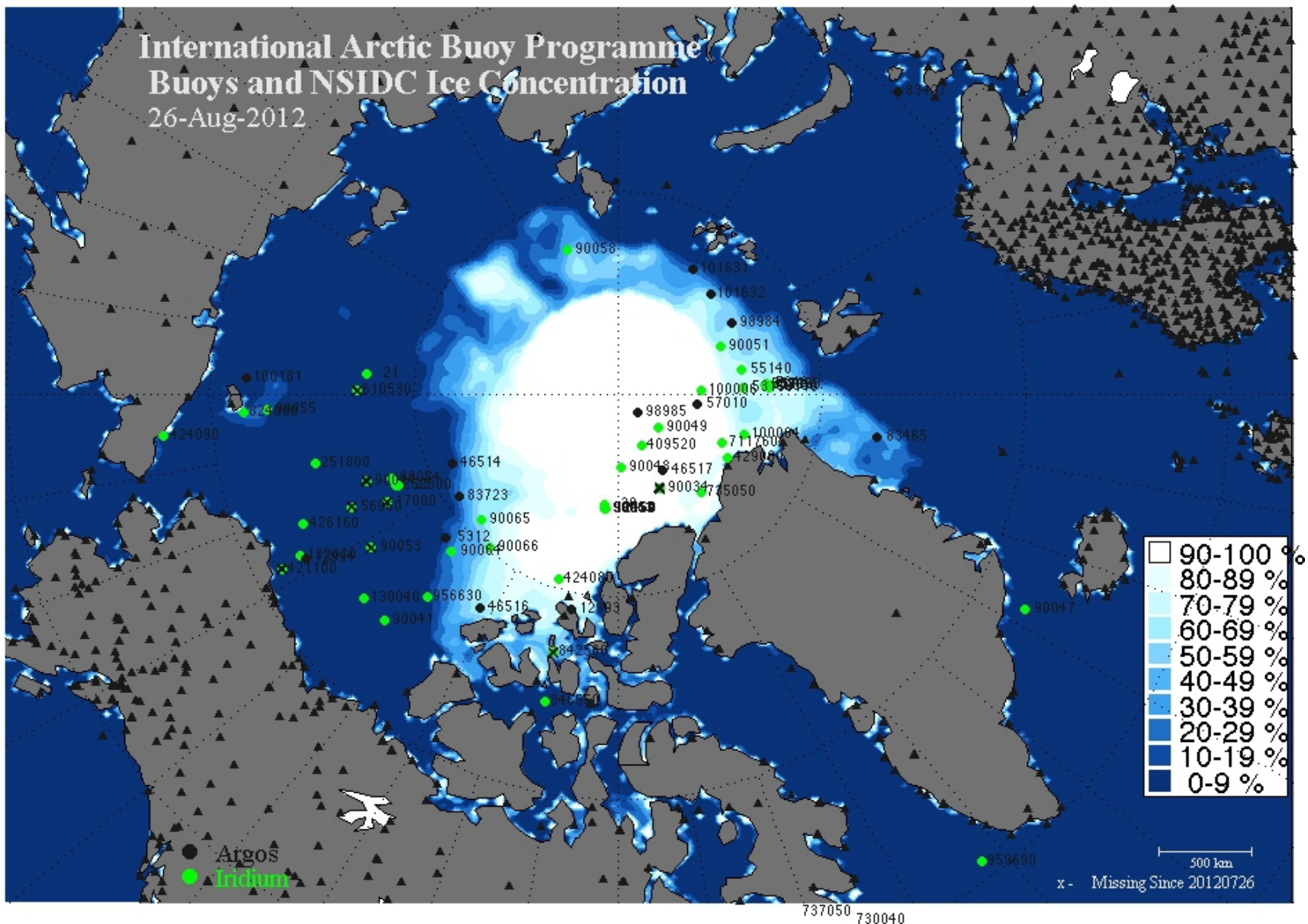


# Oceansat Scatterometer "Ice Type"

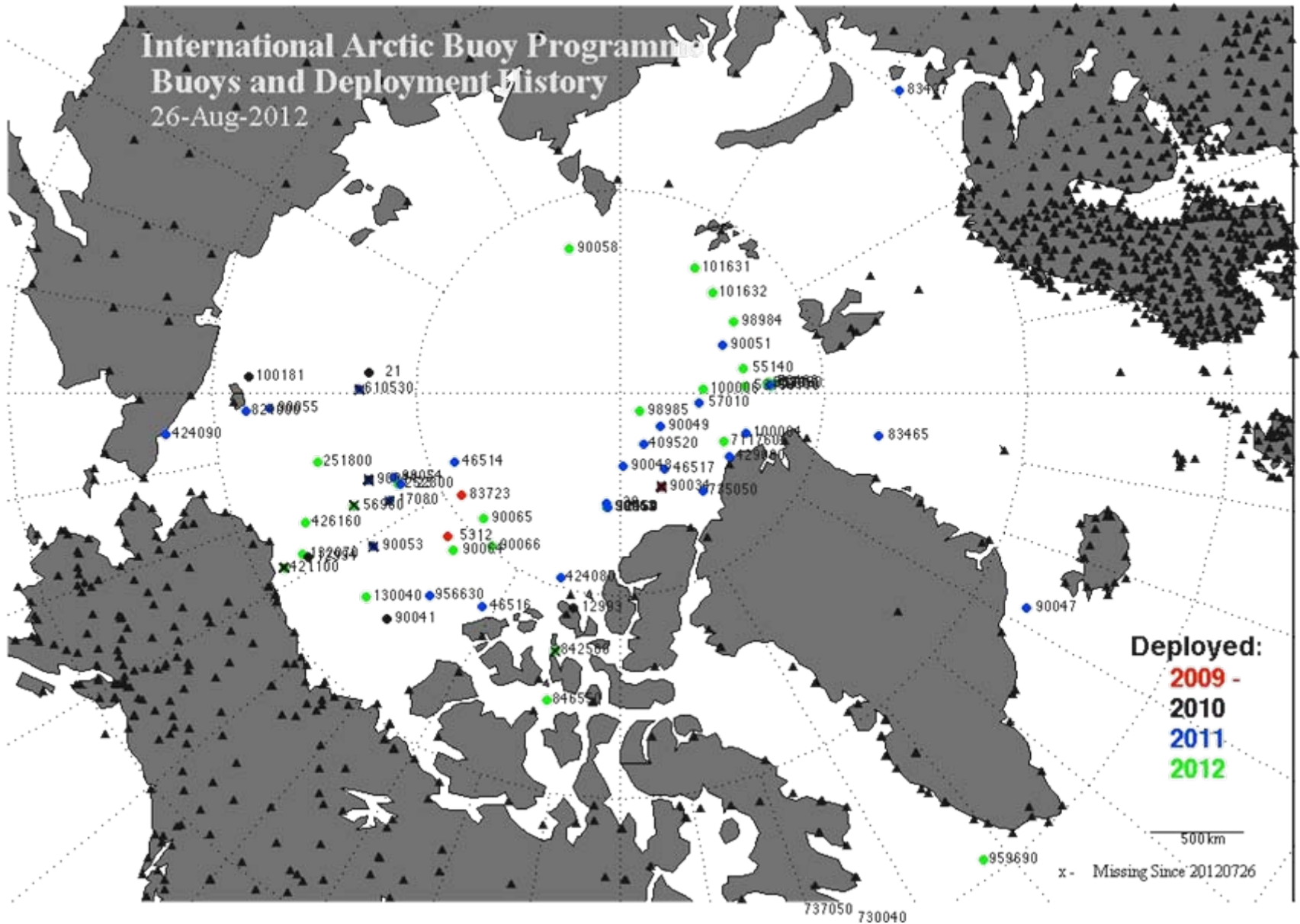


- Ability to maintain the array in FY ice area improving with with AXIB and SVP buoys.
- Still have a hole in the Eurasian Arctic, and need to find a way to deploy buoys during winter.

# IABP Status: Telemetry

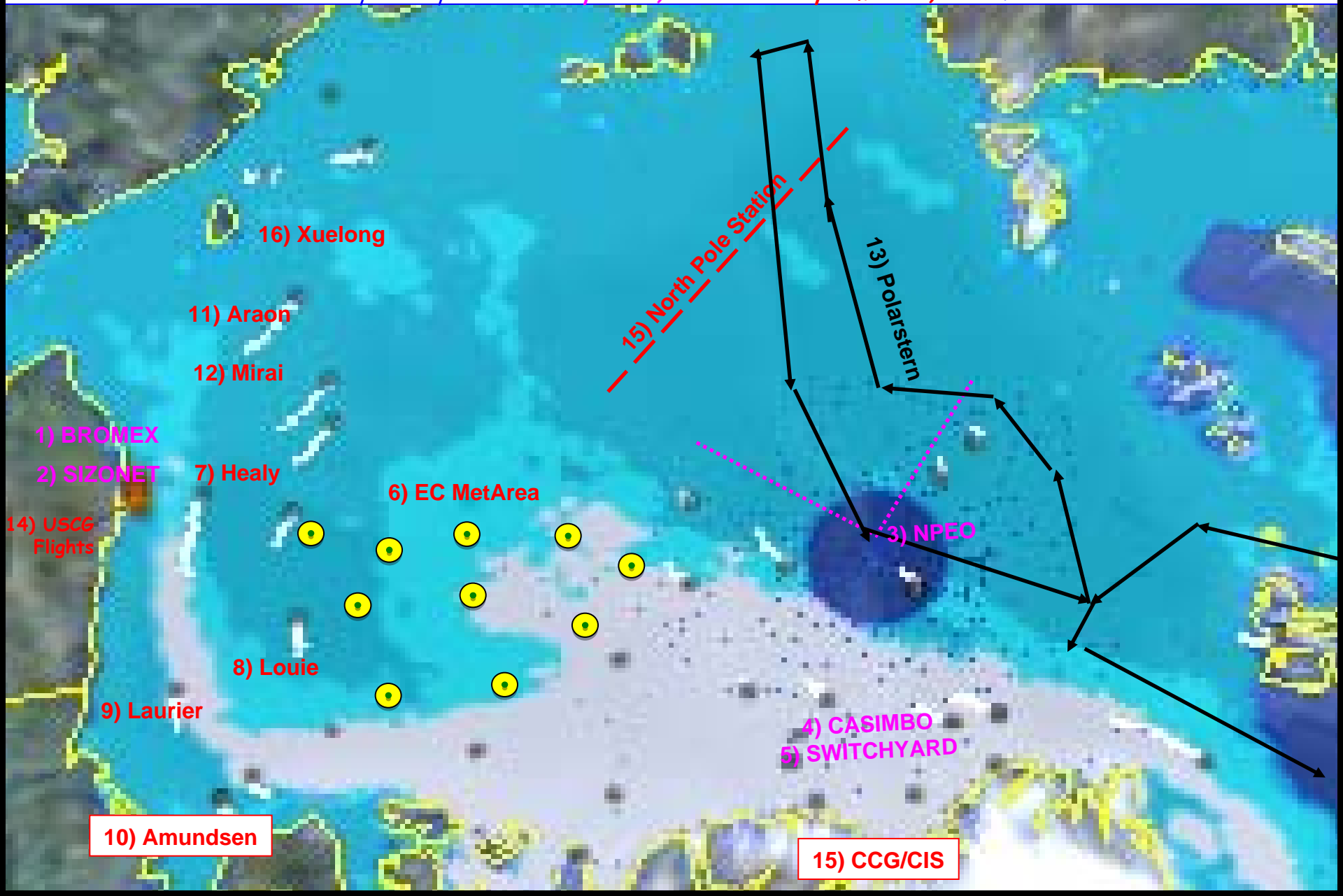


# IABP Status: Age

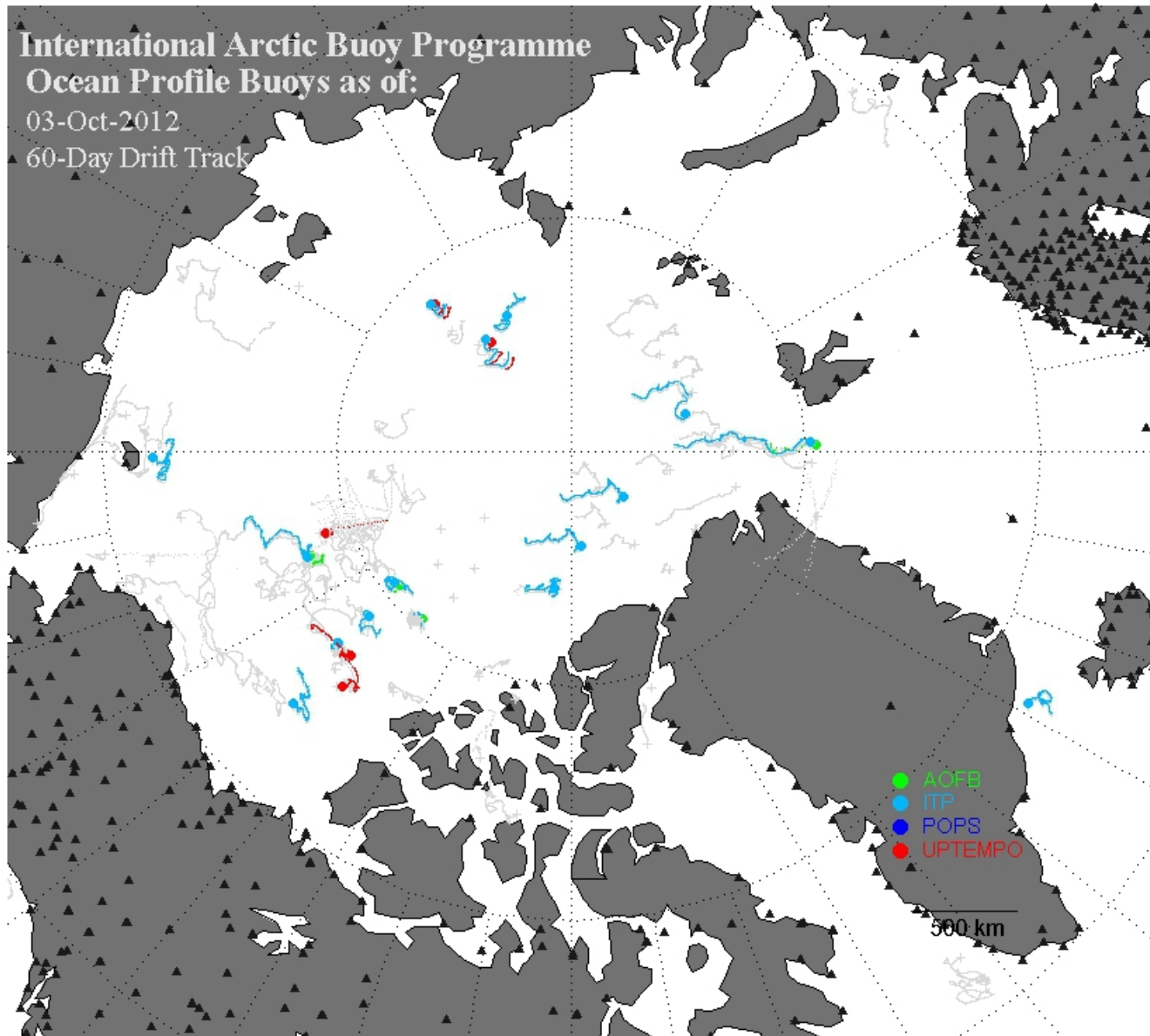


# IABP Deployment Plans - Residence Time

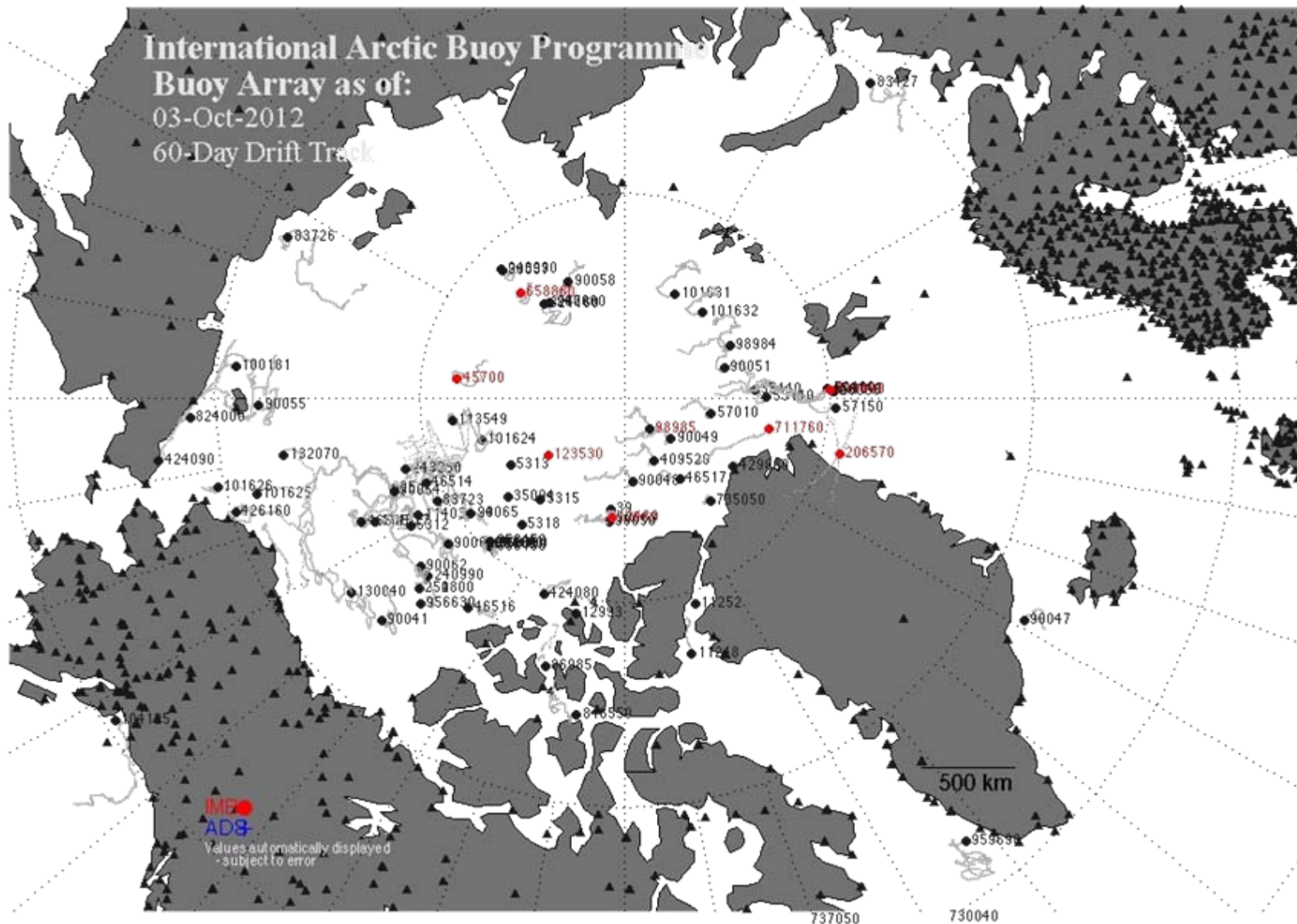
The dots show the location of drifting buoys reporting **January 2012**, and expected positions on **April 15, 2012** and **September 1, 2012**.



# IABP Status: Ocean Buoys

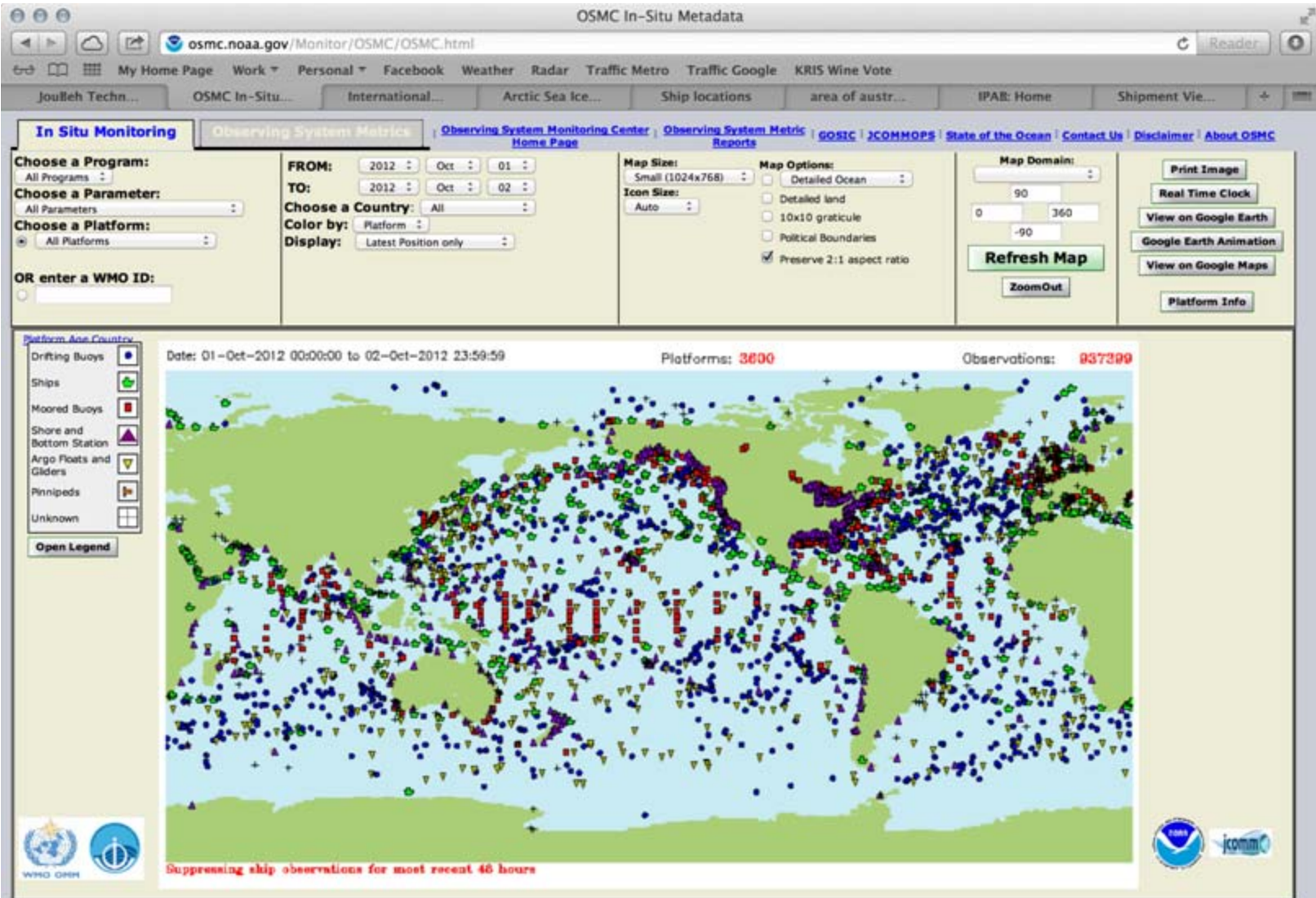


# IABP Status: Ice Mass Balance Buoys



# IABP Data on GTS

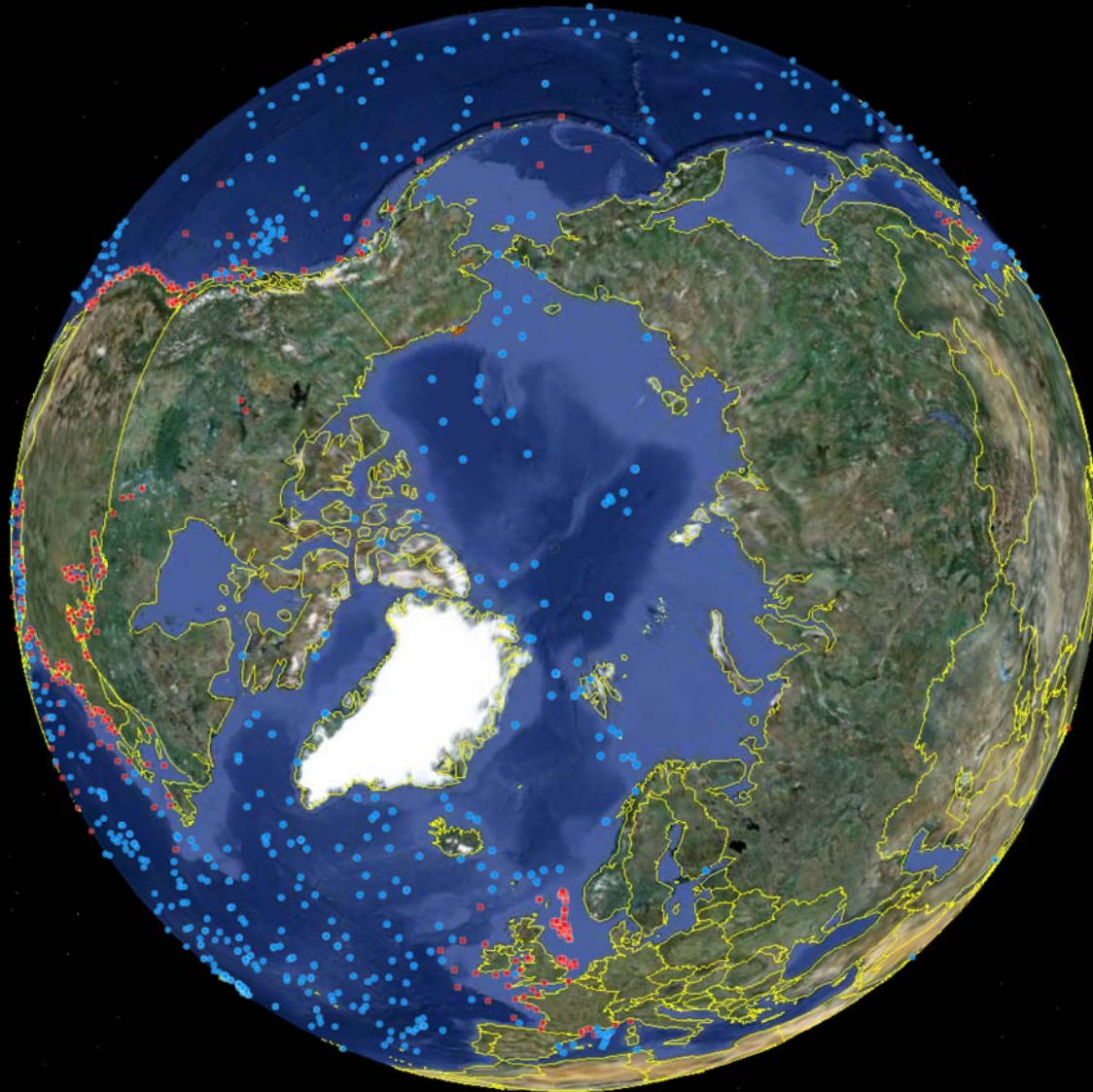
## NOAA/OSMC – October 1, 2012





# IABP Data on GTS

DBCP Google Earth KMZ – August 2012



# IABP Report Summary

