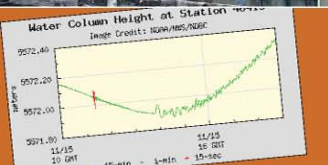


U.S. National Report 2010

Data Buoy Cooperation Panel
Joint WMO-IOC Technical Commission for
Oceanography and Marine Meteorology
27 September – 30 September 2010
Oban Scotland

Bill Burnett
U.S. National Representative
bill.burnett@noaa.gov



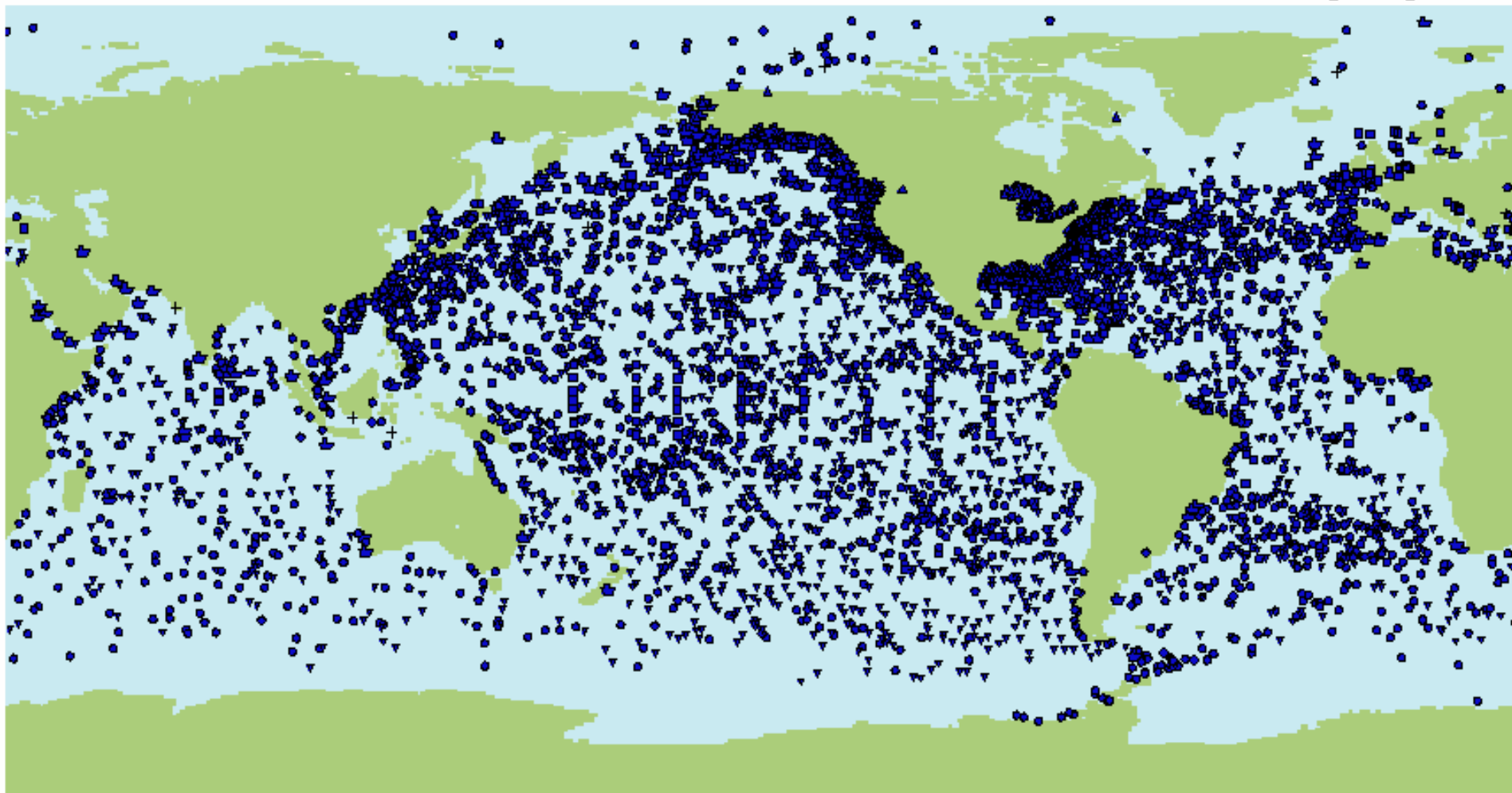
Thanks To David Meldrum for a Great Night and Good Food.



U.S. Contribution Oct 2005 – Sept 2006

Date: 01-Oct-2005 00:00:00 to 30-Sep-2006 23:59:59

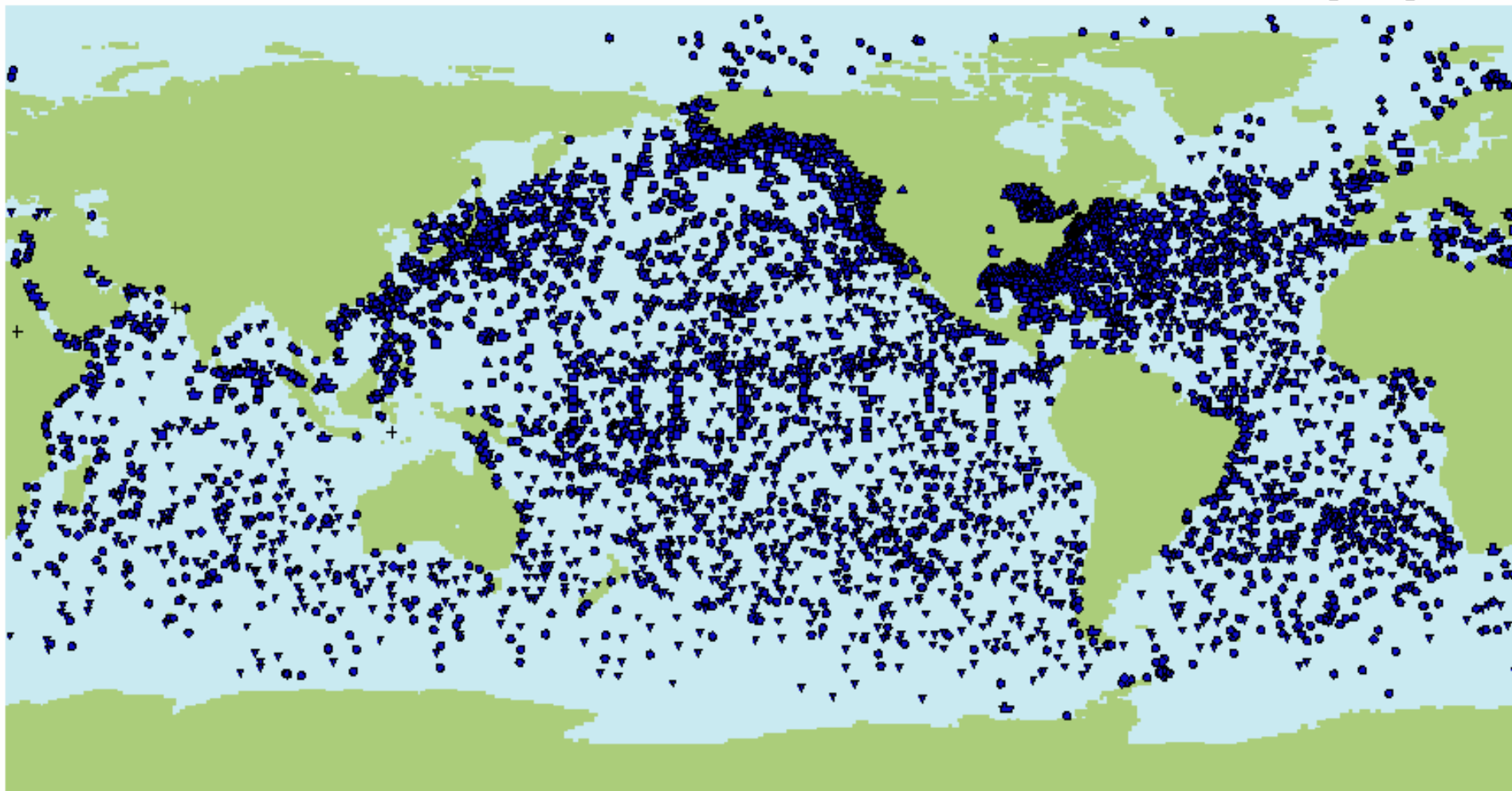
Platforms Reporting: **5266**



U.S. Contribution Oct 2006 – Sept 2007

Date: 01-Oct-2006 00:00:00 to 30-Sep-2007 23:59:59

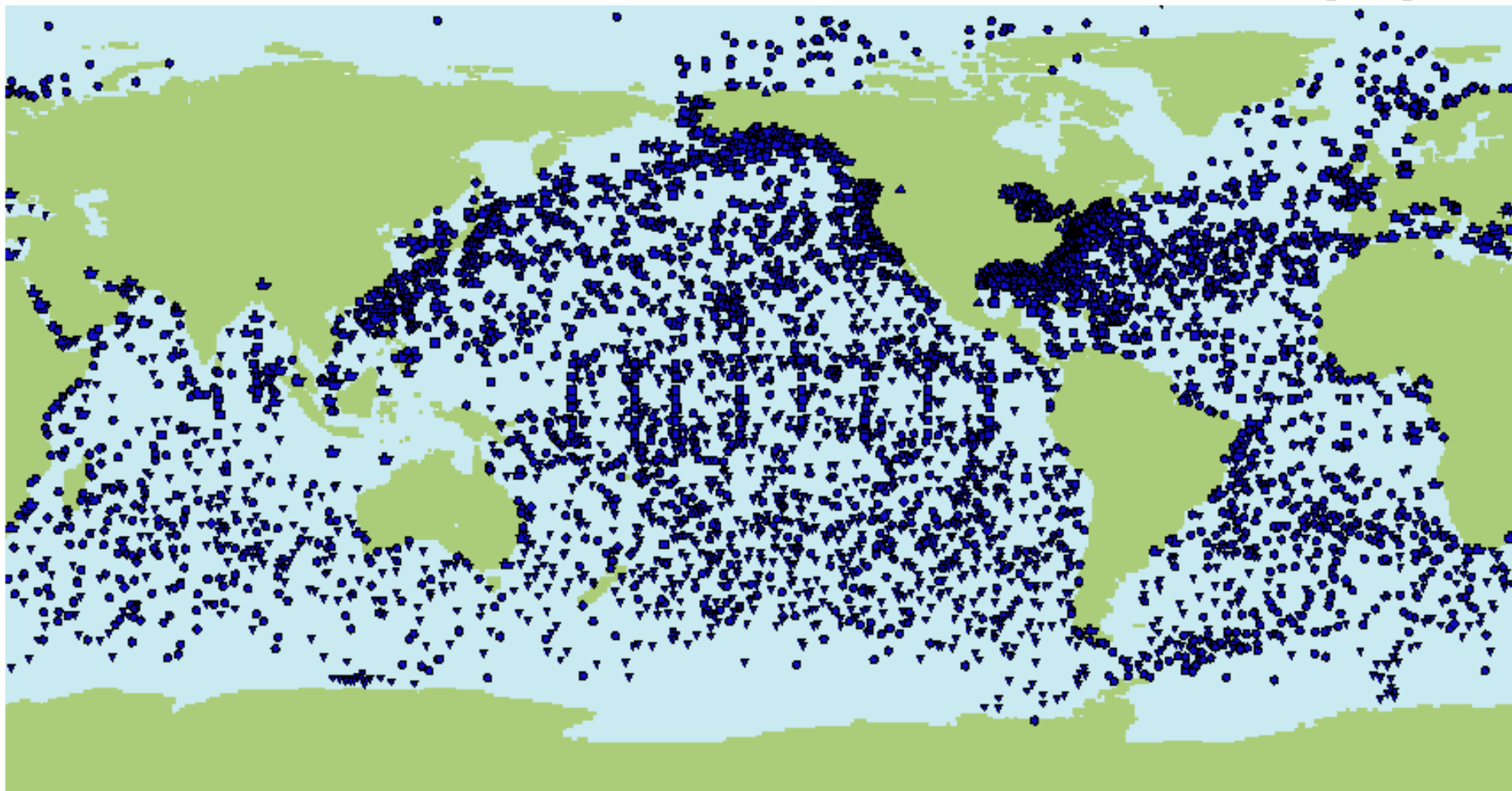
Platforms Reporting: **5541**



U.S. Contribution Oct 2007 – Sept 2008

Date: 13-Oct-2007 00:00:00 to 30-Sep-2008 23:59:59

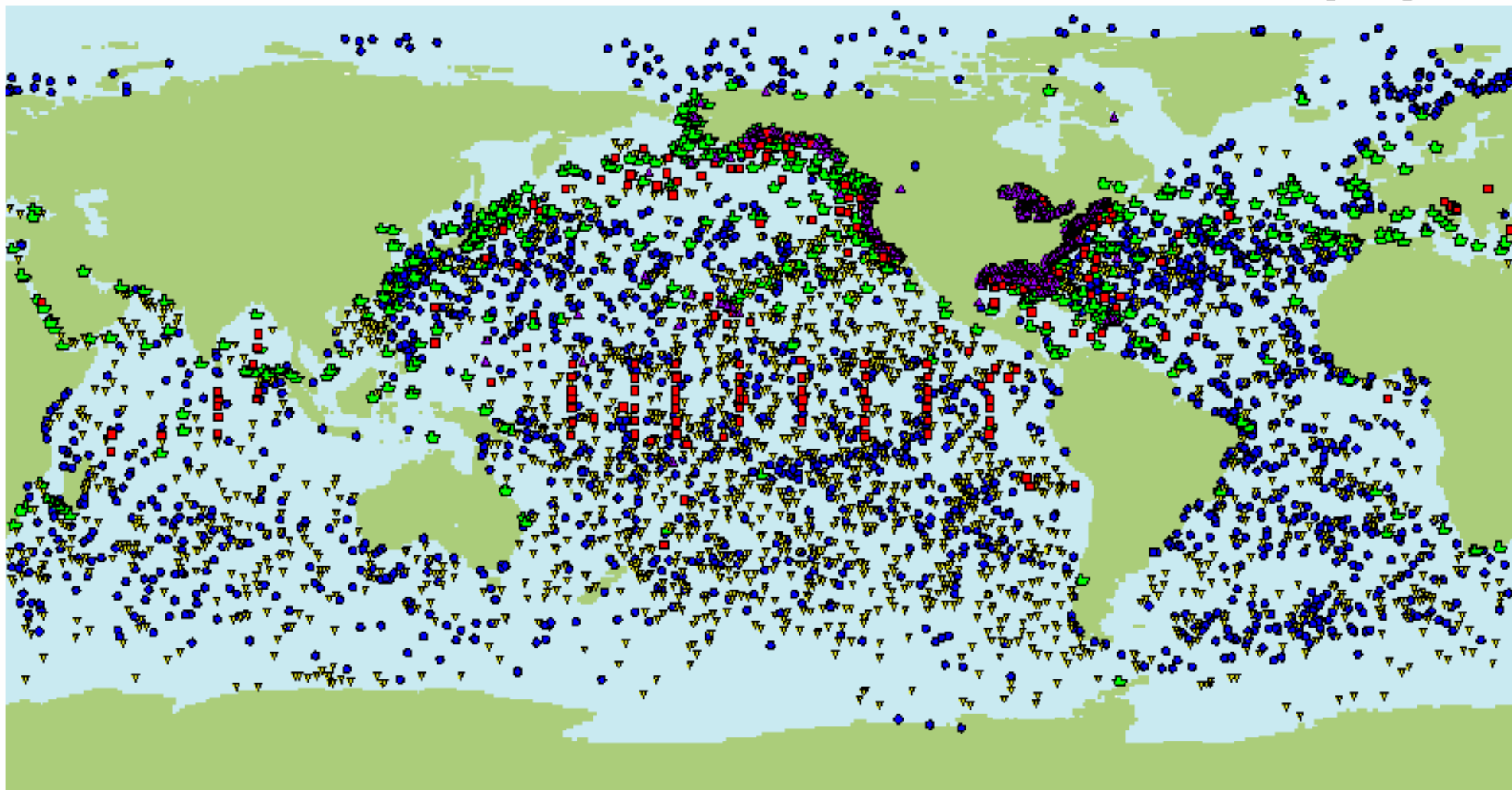
Platforms Reporting: **5358**



U.S. Contribution Oct 2008 – Sept 2009

Date: 01-Oct-2008 00:00:00 to 29-Sep-2009 23:59:59

Platforms Reporting: **5660**



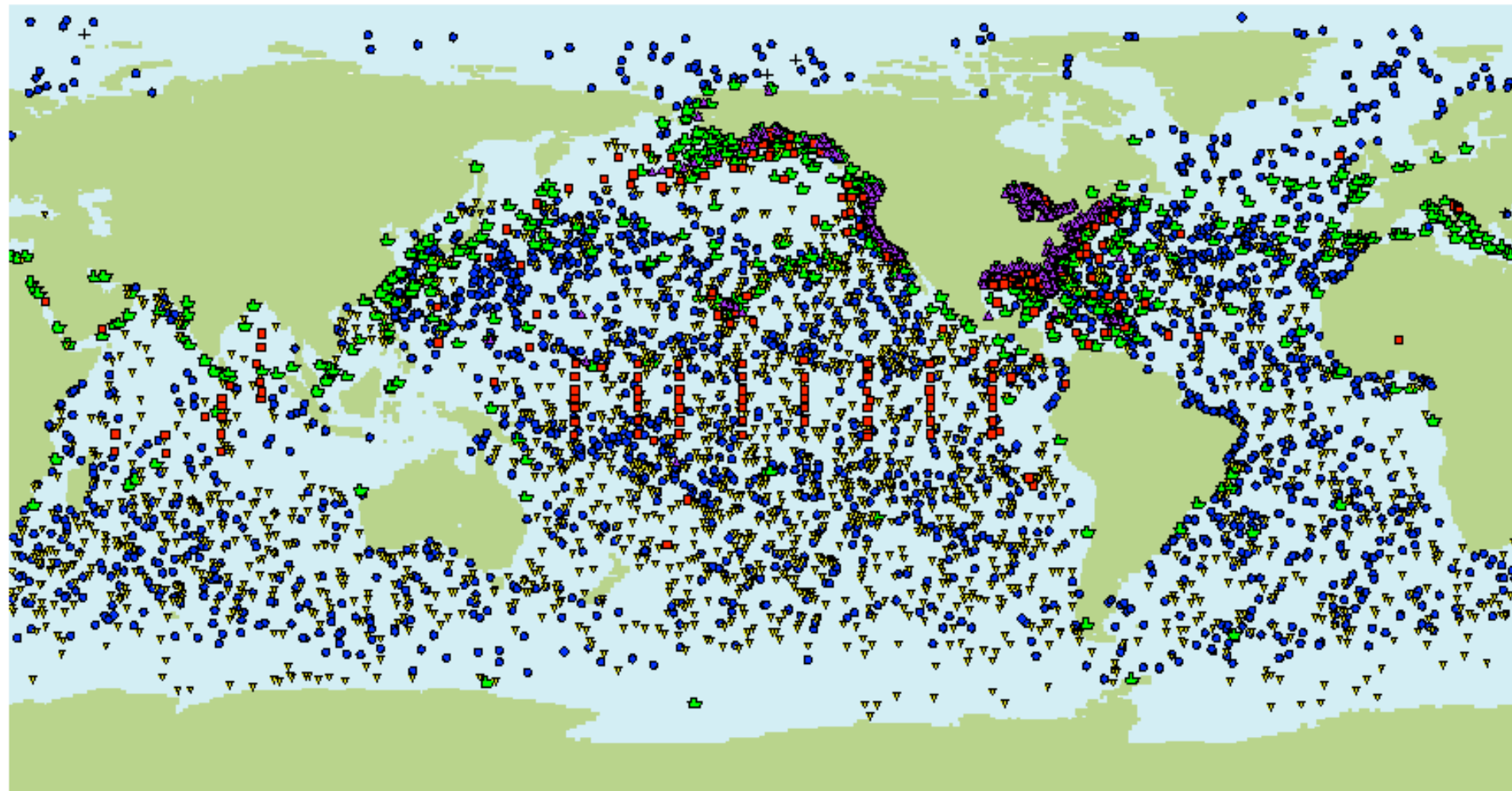
Suppressing ship observations for most recent 48 hours

U.S. Contribution Oct 2009 – Sept 2010

Date: 01-Oct-2009 00:00:00 to 27-Sep-2010 23:59:59

Platforms: 5583

Observations: 71896448



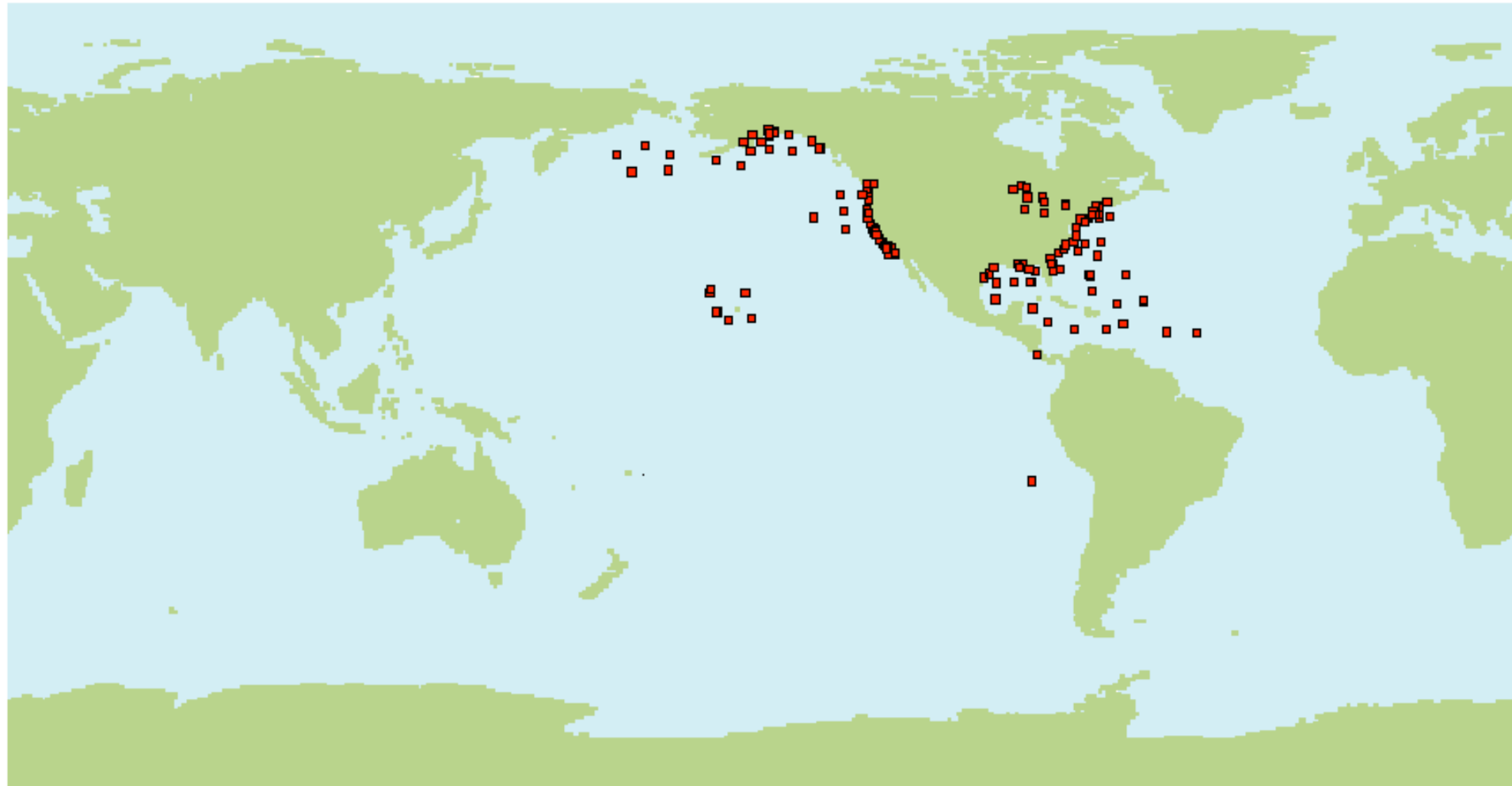
Suppressing ship observations for most recent 48 hours

U.S. Observations Wx/Ocean Contribution for 2010

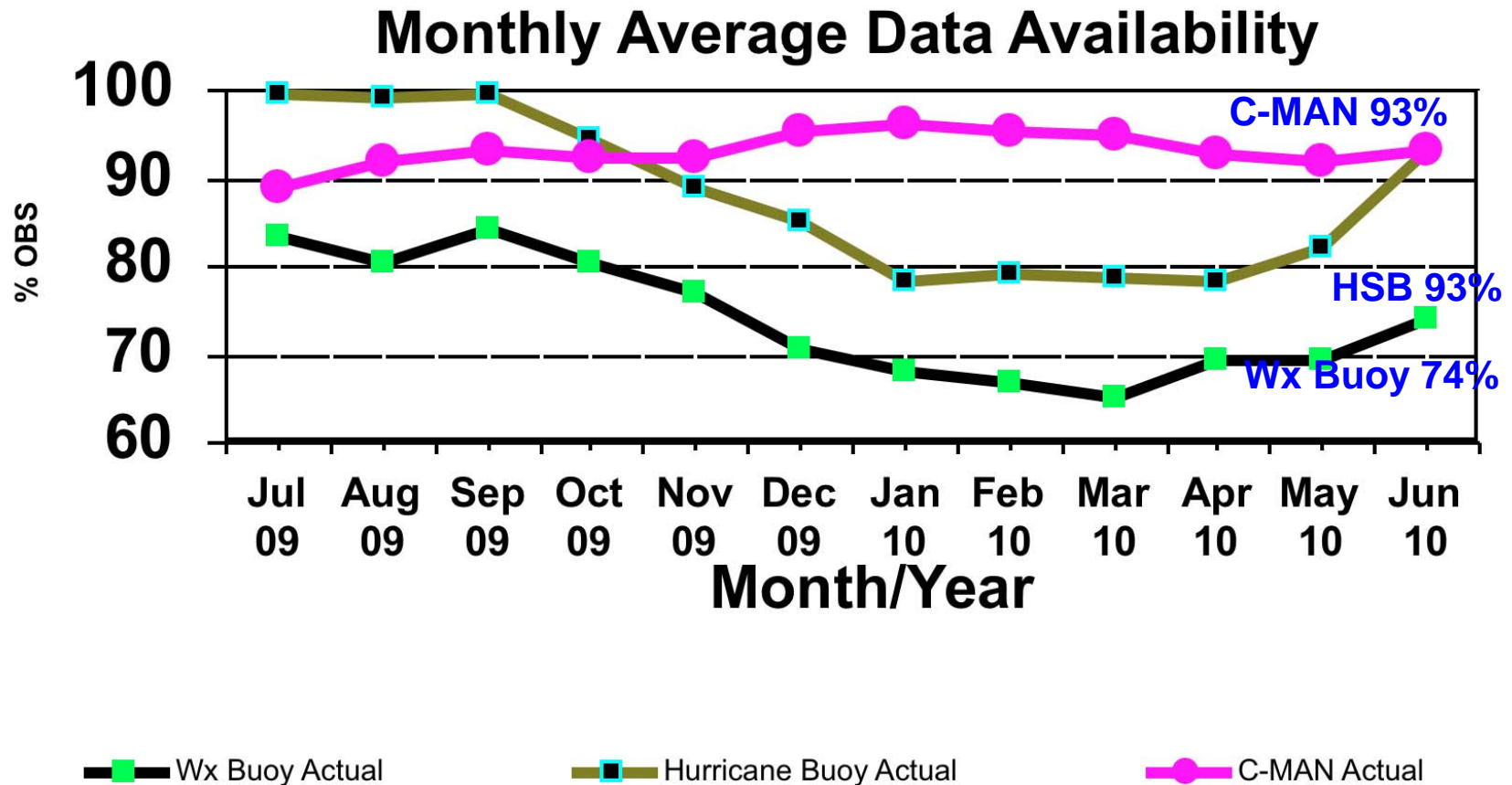
Date: 01-Oct-2009 00:00:00 to 27-Sep-2010 23:59:59

Platforms: **118**

Observations: **14639816**



Wx/Ocean Data Availability



Low Load Compliant (36)

46078

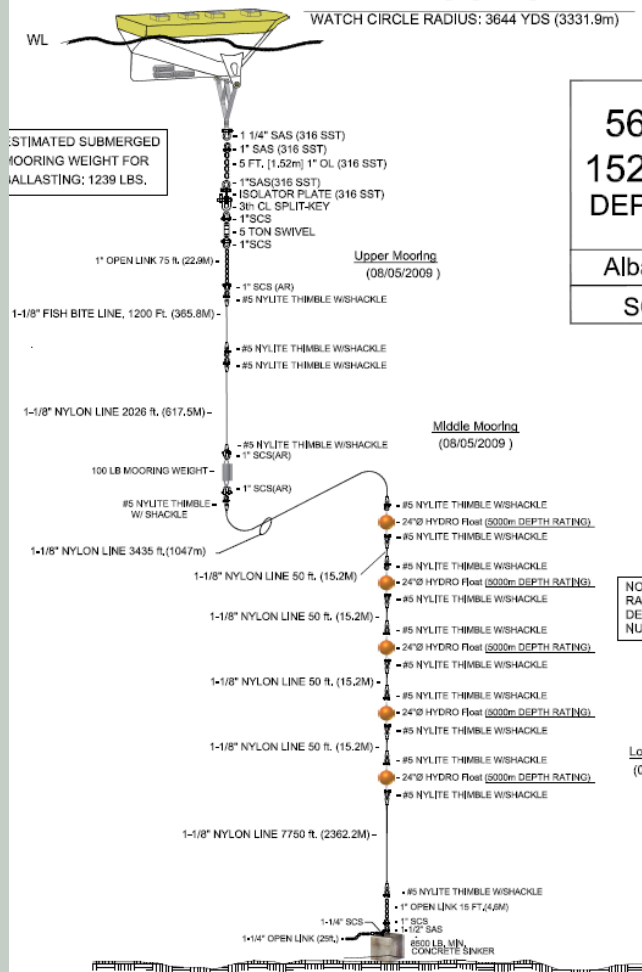
WATCH CIRCLE RADIUS: 3644 YDS (3331.9m)

-LOCATION-

56°-04'-25"N
152°-34'-20"W
DEPTH: 11700 FT.
3404.6 M.

Albatross Banks, AK

SCOPE: 1.25



- Variable depth "S" tether style mooring (30m+)
- Typical 5+ years life
- Moderate to Small Scope 1.25-1.75
- Suspending lower mooring with buoyant Polypropylene line allows for access to deeper locations
- Compliance comes from the "S" shape of the mooring along with stretch in nylon
- Typically low to moderate mooring loads

NOAA Wx/Ocean Buoys

Standard Buoy / Mooring developed by NOAA/NDBC



2009 - 2010

- Number of buoys deployed – 119
- Number of new buoys – 0
- Reporting on GTS – 96

2010 - 2011

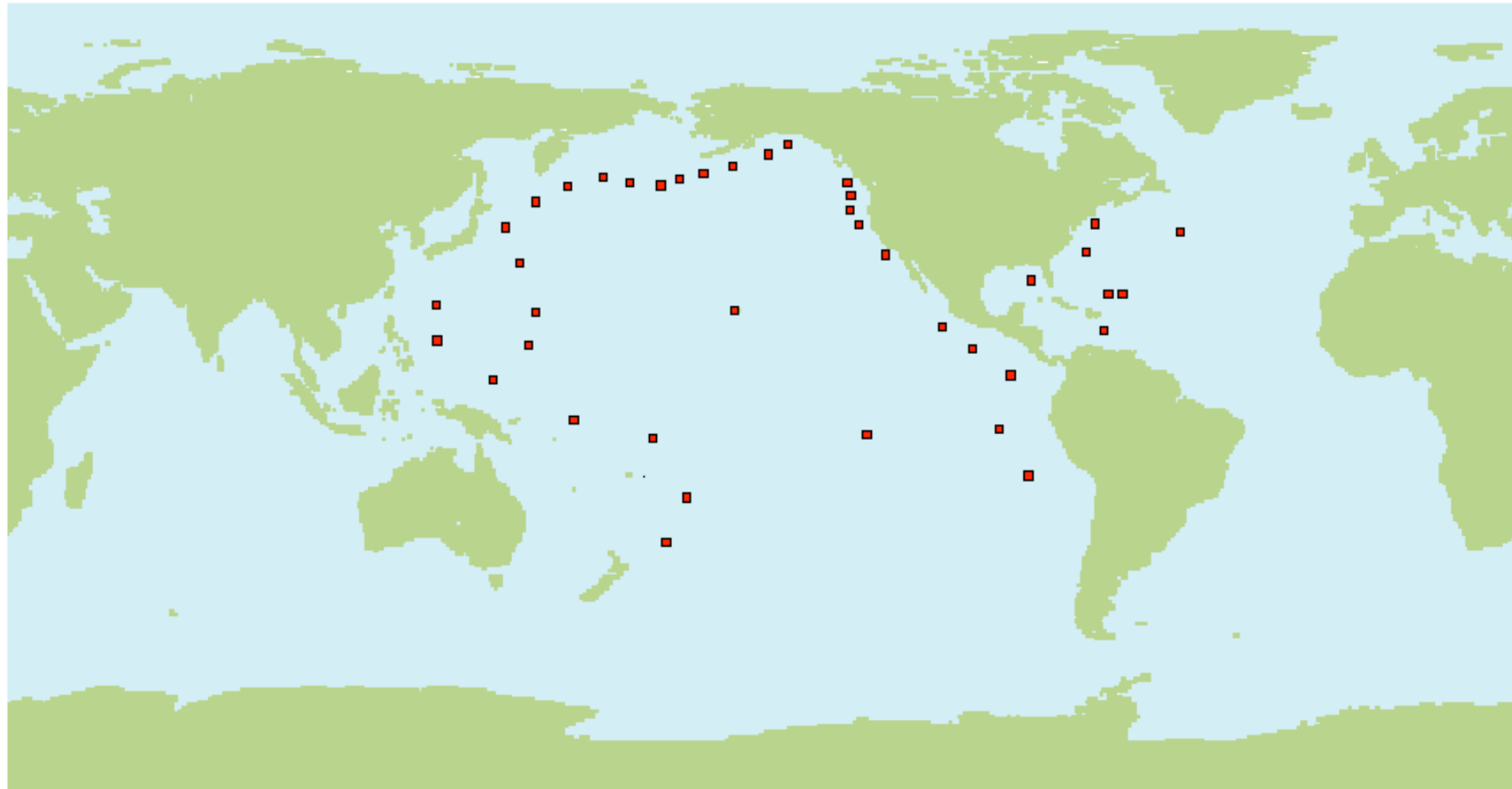
- Number of new buoys – 3
- Number of buoys deployed - 122

U.S. Observations Tsunameter Contribution for 2010

Date: 01-Oct-2009 00:00:00 to 27-Sep-2010 23:59:59

Platforms: **40**

Observations: **1038531**



Pacific Tsunameter Cruise 2010

- Date: 01-Oct-2009 00:00:00 to 01-Oct-2010 23:59:59 Platforms: 40 Observations: 1038531
- **Total Days:** 159
 - **Total Days At Sea:** 136
 - **Total Days In Port:** 23
 - **Total Distance:** 37,192 km

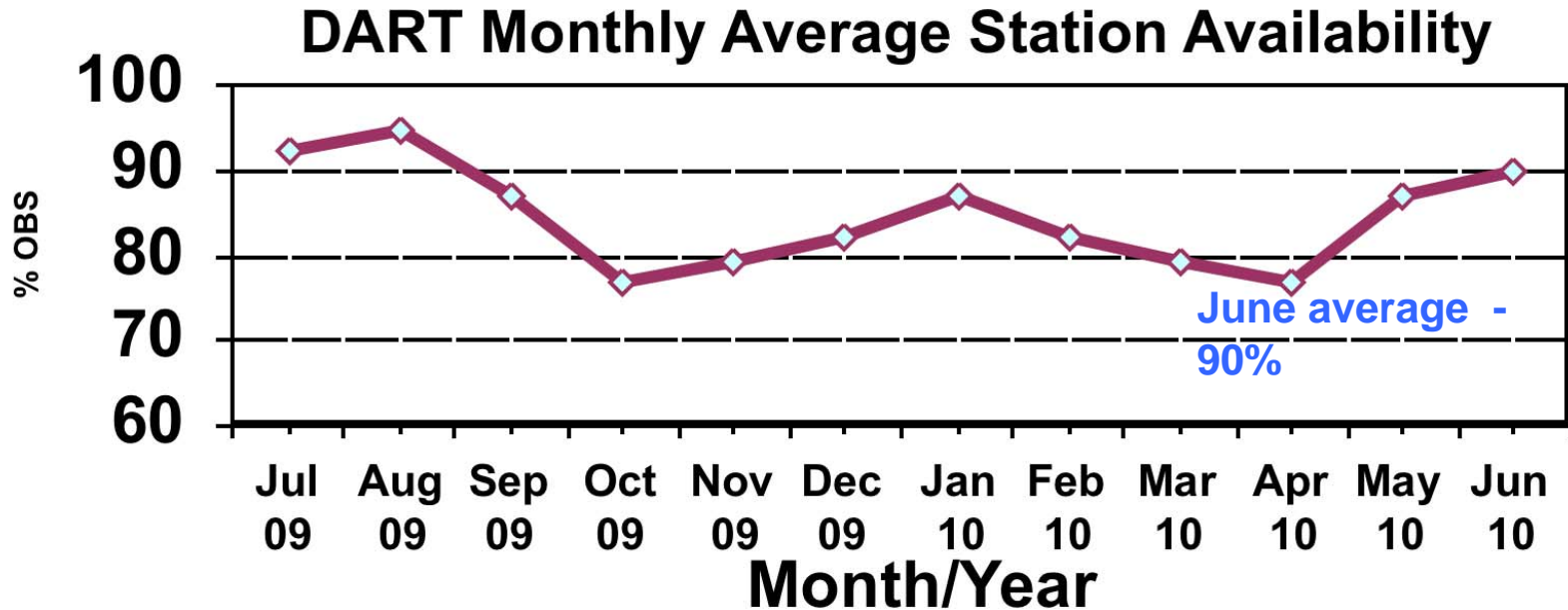
- **Number of stations serviced:** 28
- **Number of adrift buoys recovered:** 4
- **Number of BPRs recovered:** 14
- **Number of Reestablishments:** 6
- **Number of buoy moorings swapped:** 2
- **Number of Station Firmware / Hardware Upgrades:** 10
- **Number of days delayed due to weather:** 7
- **Number of ship "break downs":** "0"

- **Leg #1 (25 Days 3,361 km):** Brewer, Parrett, Blackmon, Higgs
- **Leg #2 (29 Days, 6,491 km):** Michel, Parrett, Loveless
- **Leg #3 (15 Days / 4,530 km):** Brewer, Loveless
- **Leg #4 (37 Days / 11,943 km):** Coleman, Tretbar, Lumpkin, Blackmon
- **Leg#5 (42 Days / 13,890 km):** Brewer, Parrett, Loveless
- **Leg #6 (11 Days / 2,583 km):** Coleman, Tretbar

(Parrett: 96 Days - ~24,000 km, Loveless: 86 Days - ~26,000 km)

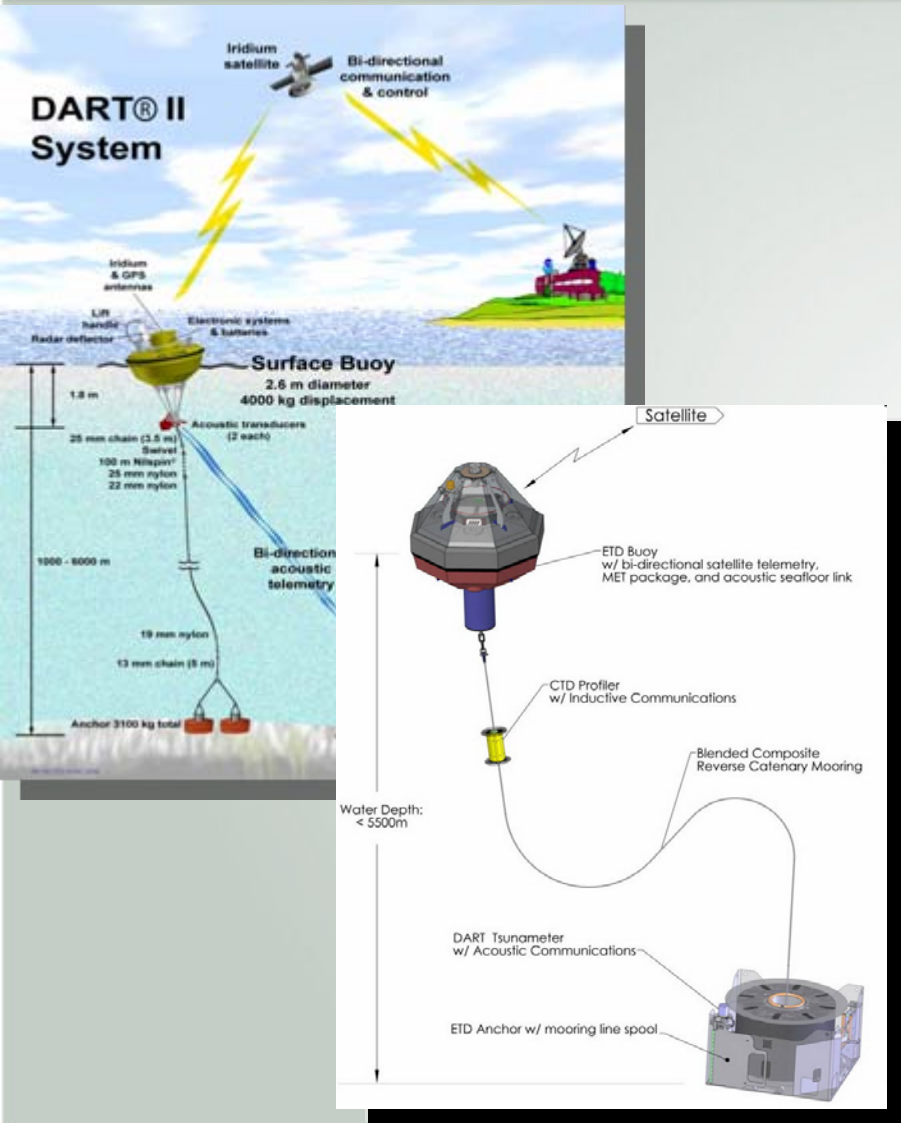
2010 DART Maintenance Plan
9/29/2010Status

DART Station Availability



NOAA/NWS Tsunameters

DART® II Technology developed by NOAA/PMEL



2009 - 2010

- Number of buoys deployed – 39*
- Number of buoys serviced – 39
- Number of new buoys – 0
- Reporting on GTS – 36

2010 - 2011

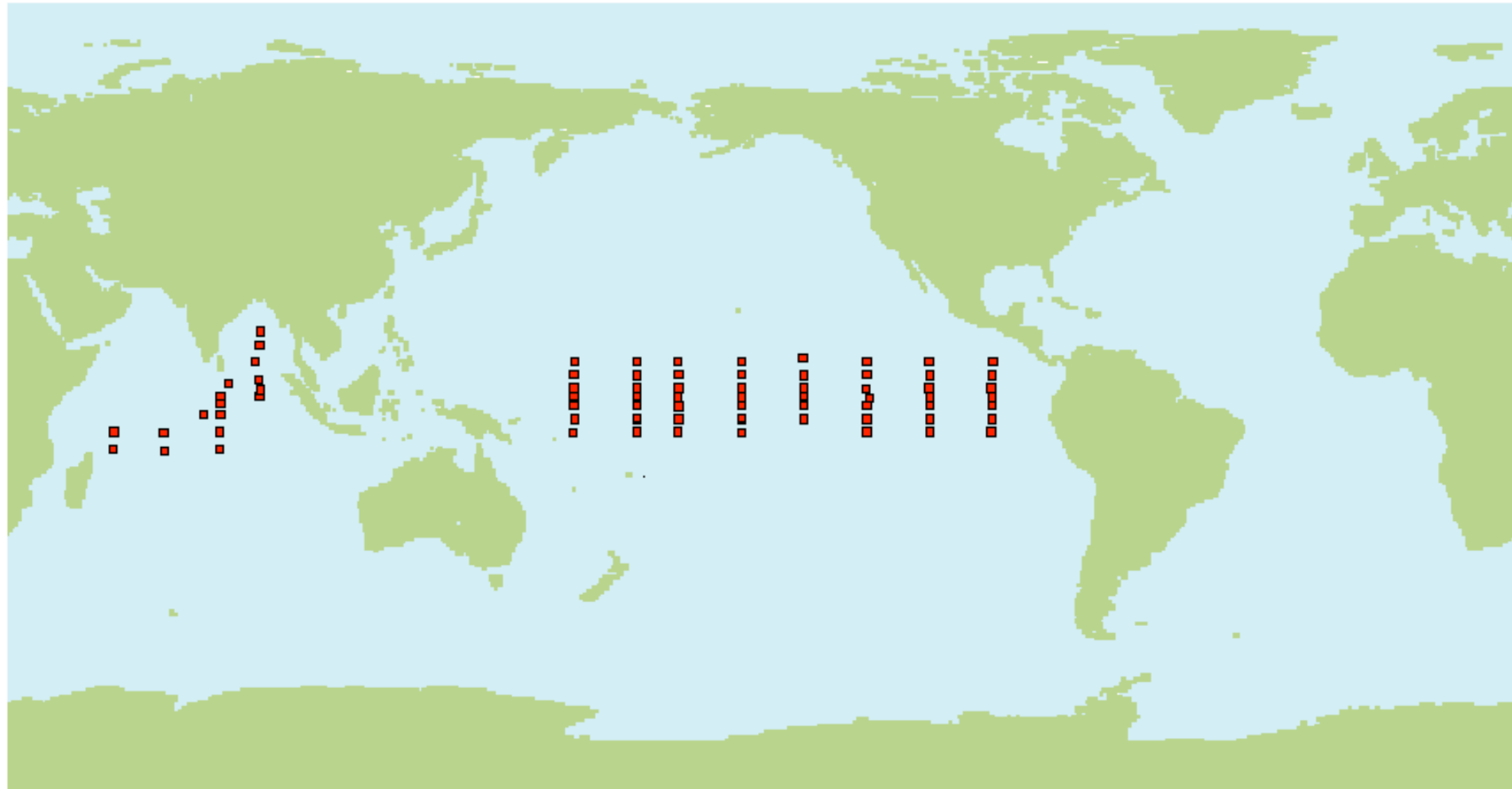
- Number of new buoys scheduled – 0
- Number of buoys planned - 39

U.S. Observations Tropical Array Contribution for 2010

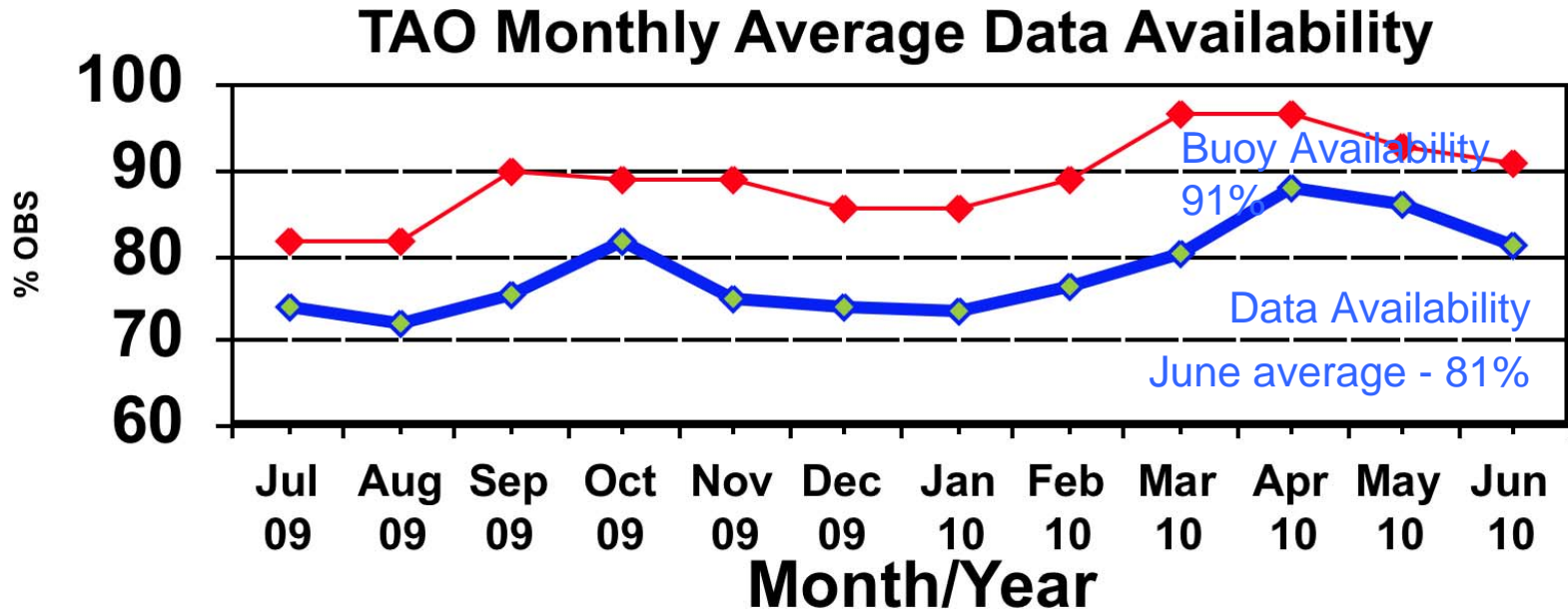
Date: 01-Oct-2009 00:00:00 to 27-Sep-2010 23:59:59

Platforms: 72

Observations: 1725311

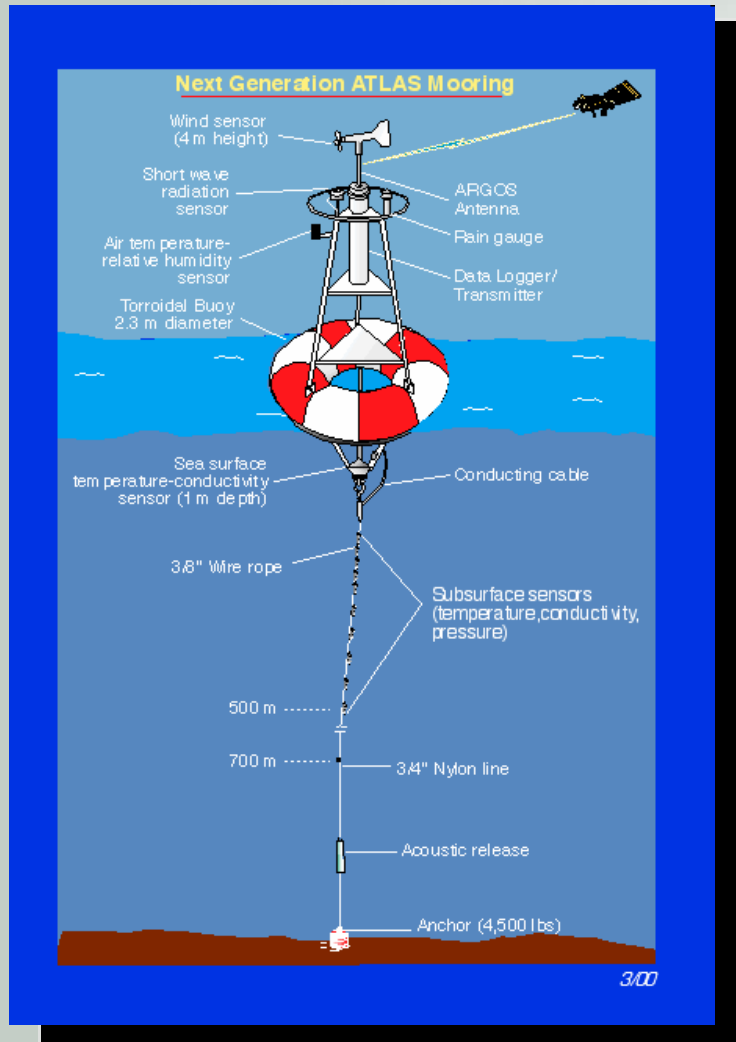


TAO Data and Station Availability



NOAA Tropical Moored Buoys

ATLAS Mooring developed by NOAA/PMEL



2009 - 2010

- Number of buoys deployed – 89
- Number of subsurface – 10
- Number of new buoys - 4
- Reporting on GTS – 77

2010 - 2011

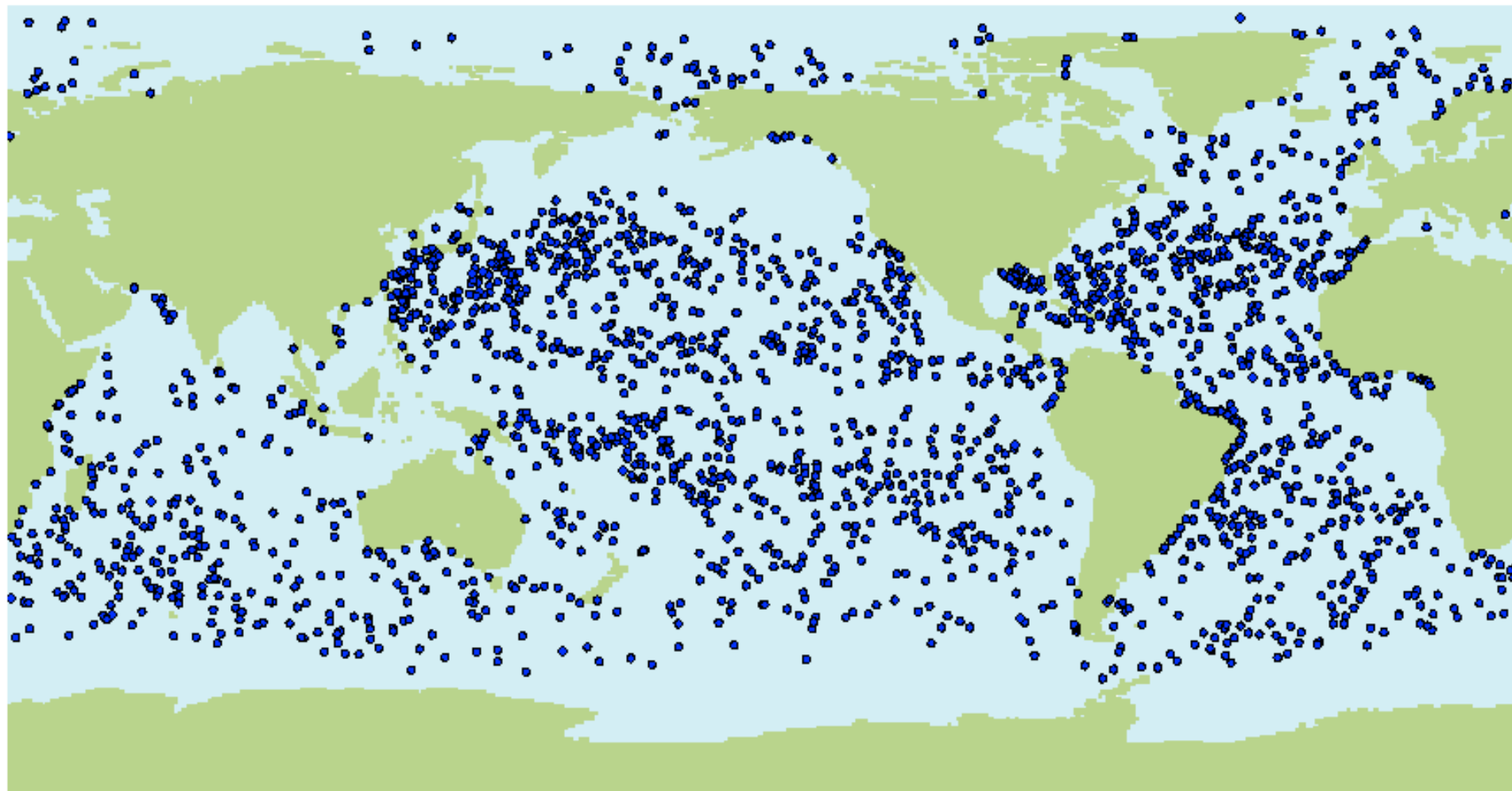
- Number of new buoys scheduled – 2
- Number of buoys planned - 91

U.S. Observations Drifters Contribution for 2010

Date: 01-Oct-2009 00:00:00 to 27-Sep-2010 23:59:59

Platforms: **2153**

Observations: **16658973**



NOAA GDP Drifters

VOS Crew Deploy Next Generation SVP Drifter
Photo by: GDP



2009 - 2010

- Number of drifters deployed – 1245
- Number of drifters for ops – 1073
- Number of drifters for research – 159
- Number of drifters for development - 13
- Reporting on GTS – 1391

2010 - 2011

- Number of new drifters – 1000
- Number of drifters for ops – 800
- Number of drifters for research - 200

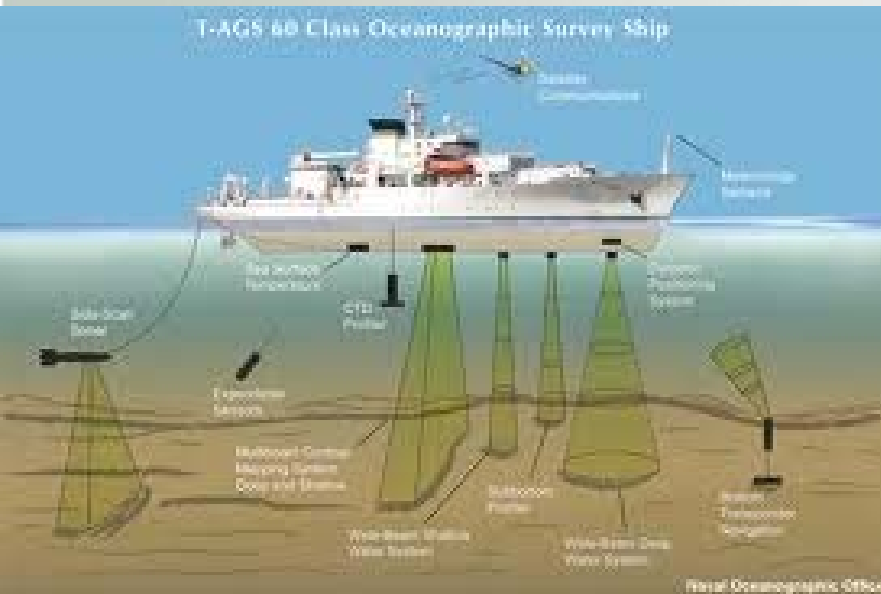
Naval Oceanographic Office Drifters

2009 - 2010

- Numbers deployed – 36 APEX floats, 63 SLDMB Davis drifters, 11 WOCE drifters and 4 Arctic-MET
- Operational – 9 surface drifters and 43 floats
- Reporting on GTS – 9 surface drifters and 43 floats

2010 - 2011

- Number of new drifters – 31 surface drifters and 46 floats
- Deployments in West Indian Ocean, West Pacific, Hawaii - Arctic (NIC by USCG)

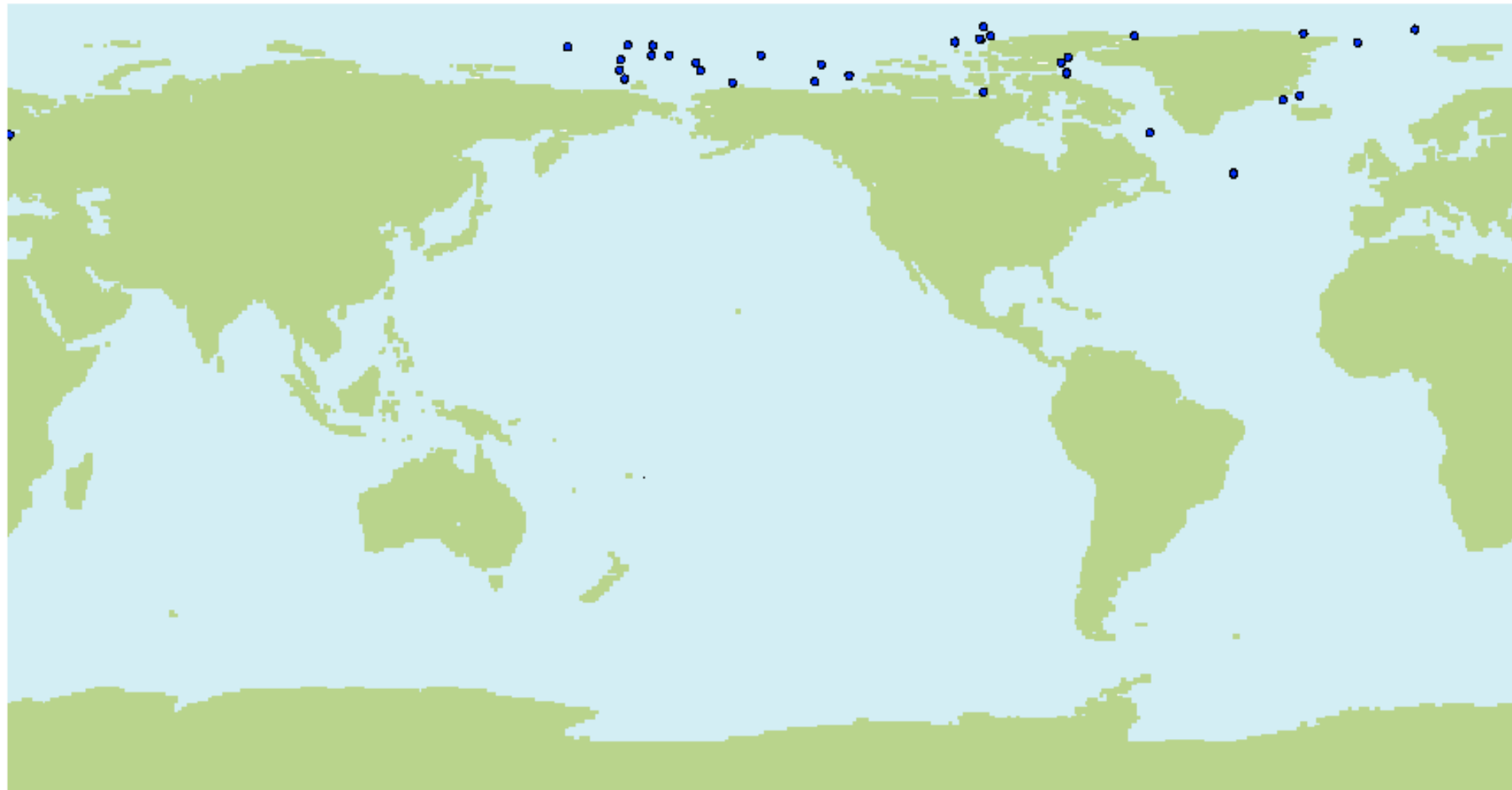


U.S. Observations Ice Drifters Contribution for 2009

Date: 01-Oct-2009 00:00:00 to 27-Sep-2010 23:59:59

Platforms: **33**

Observations: **430231**

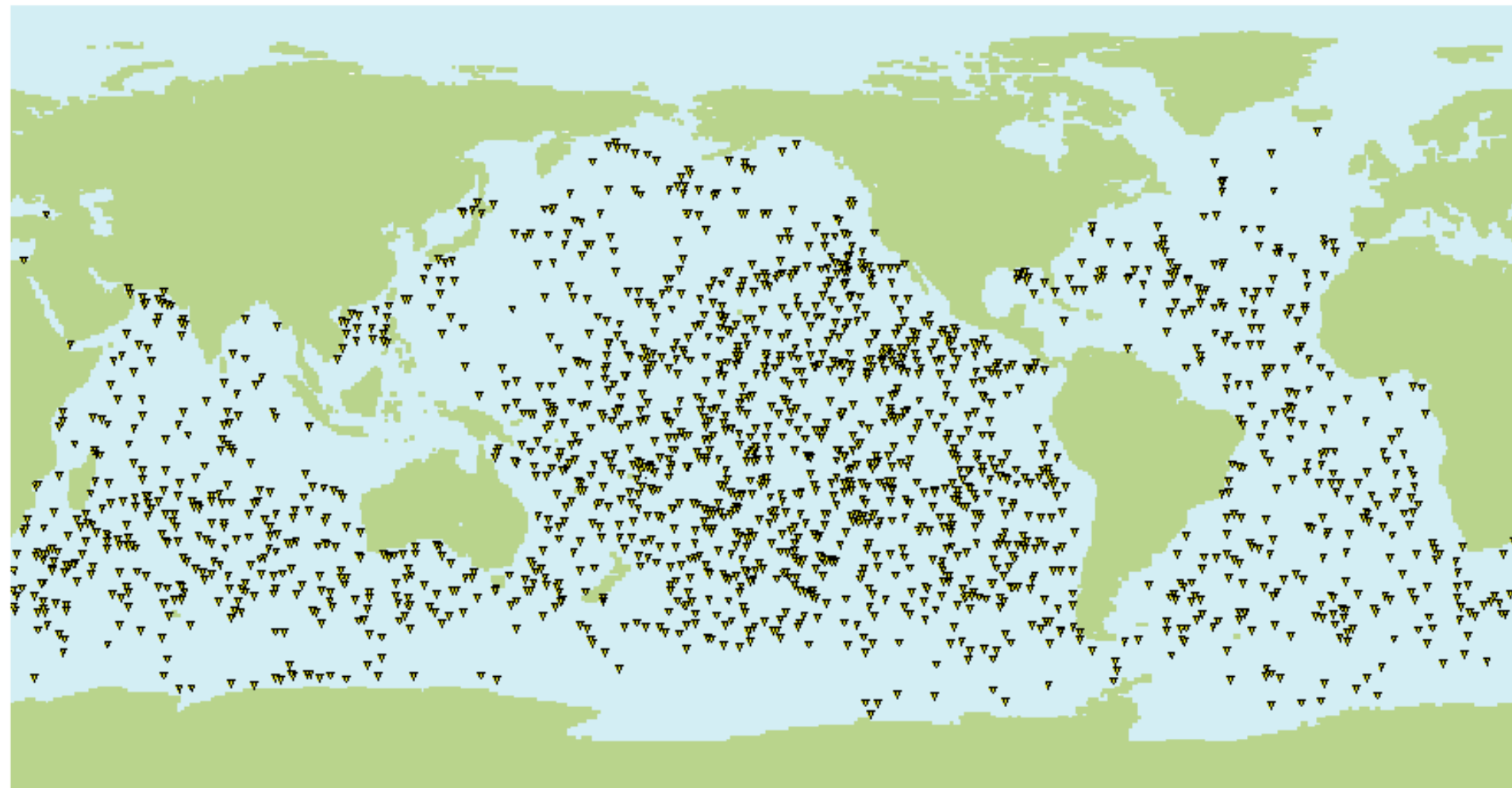


U.S. Observations Argo Contribution for 2010

Date: 01-Oct-2009 00:00:00 to 27-Sep-2010 23:59:59

Platforms: **1843**

Observations: **10306253**

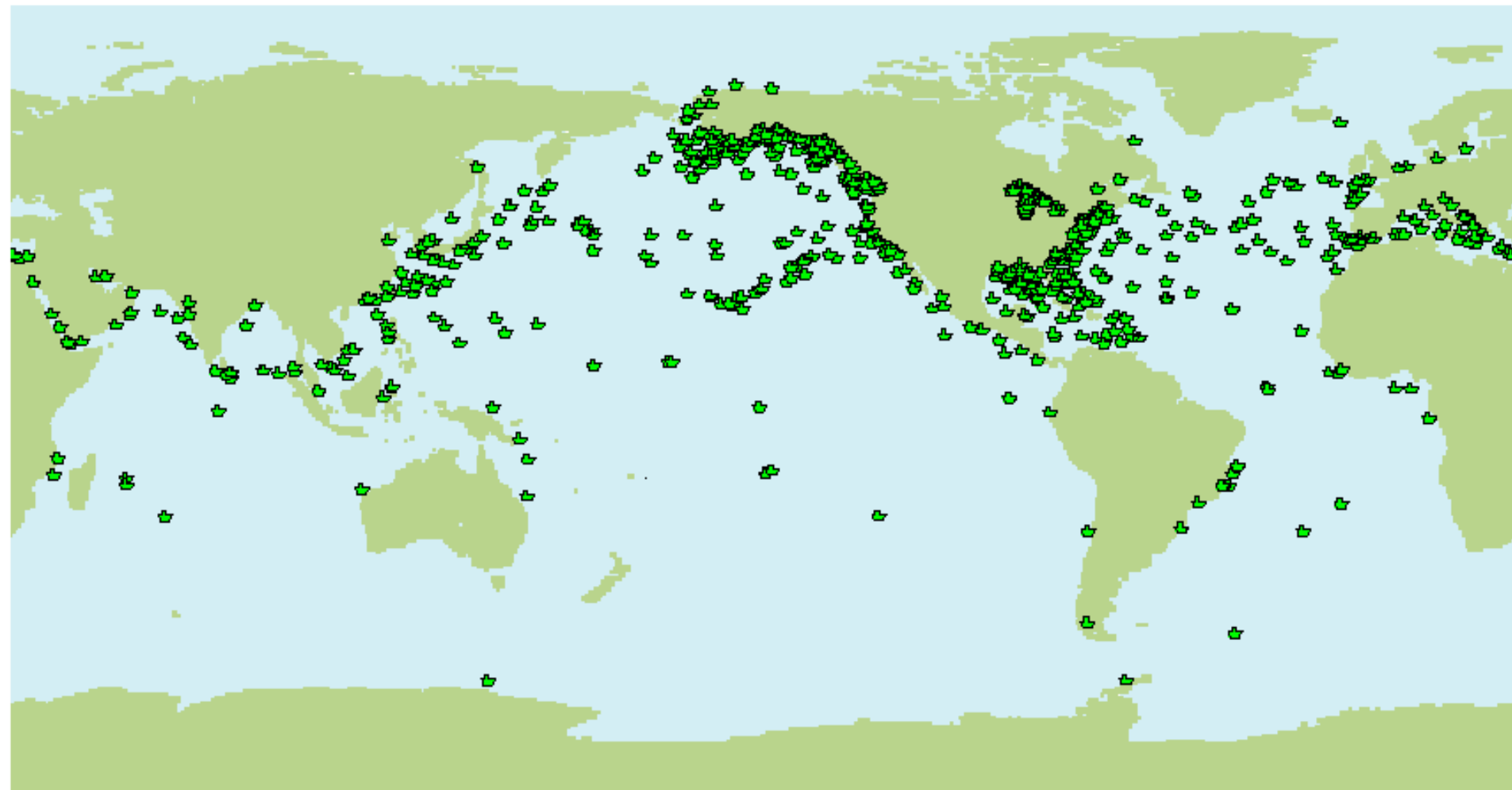


U.S. Observations VOS Contribution for 2010

Date: 01-Oct-2009 00:00:00 to 27-Sep-2010 23:59:59

Platforms: **670**

Observations: **1953170**

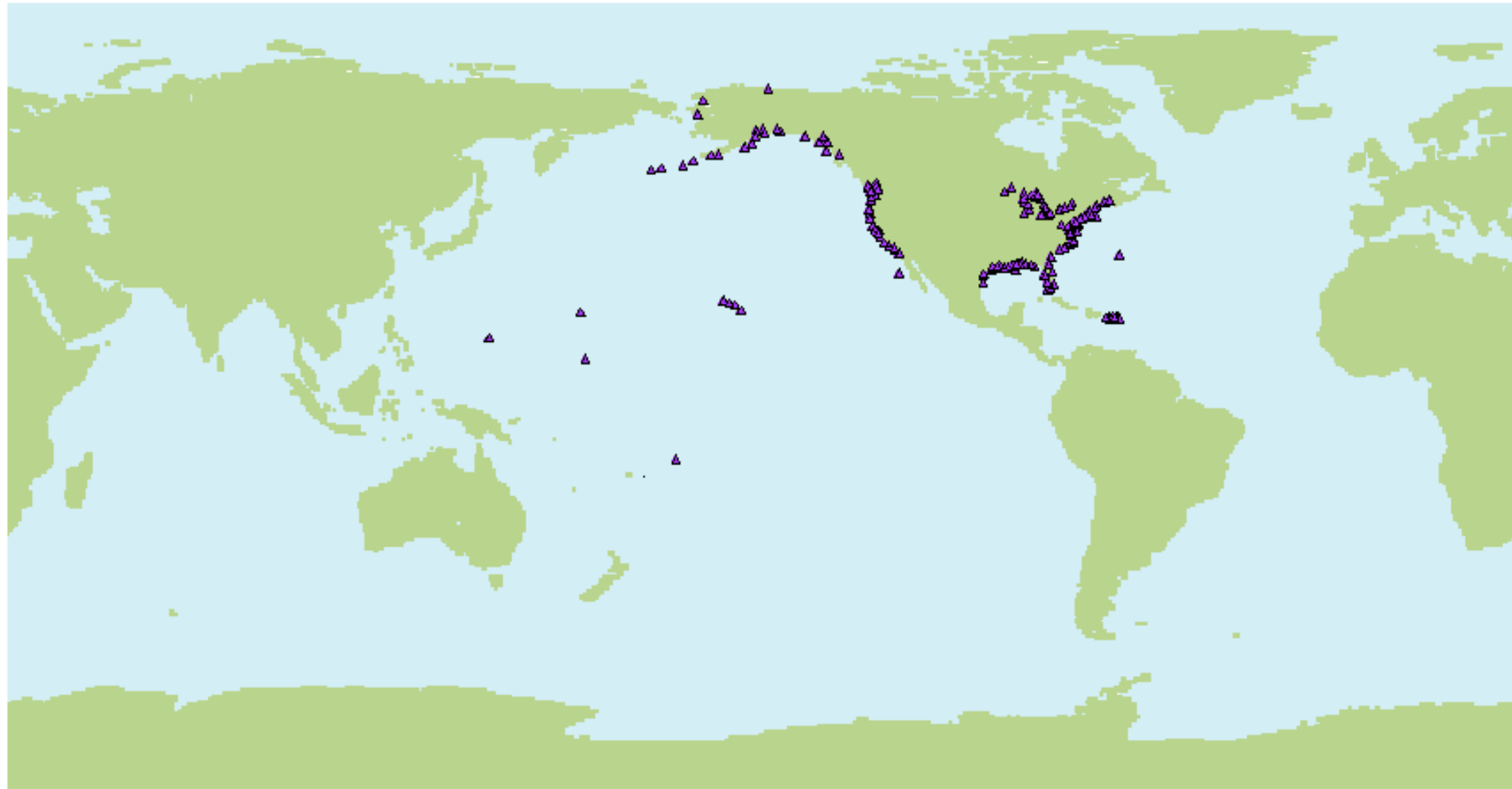


U.S. Observations Tide Gauge Contribution for 2010

Date: 01-Oct-2009 00:00:00 to 27-Sep-2010 23:59:59

Platforms: **227**

Observations: **7074778**

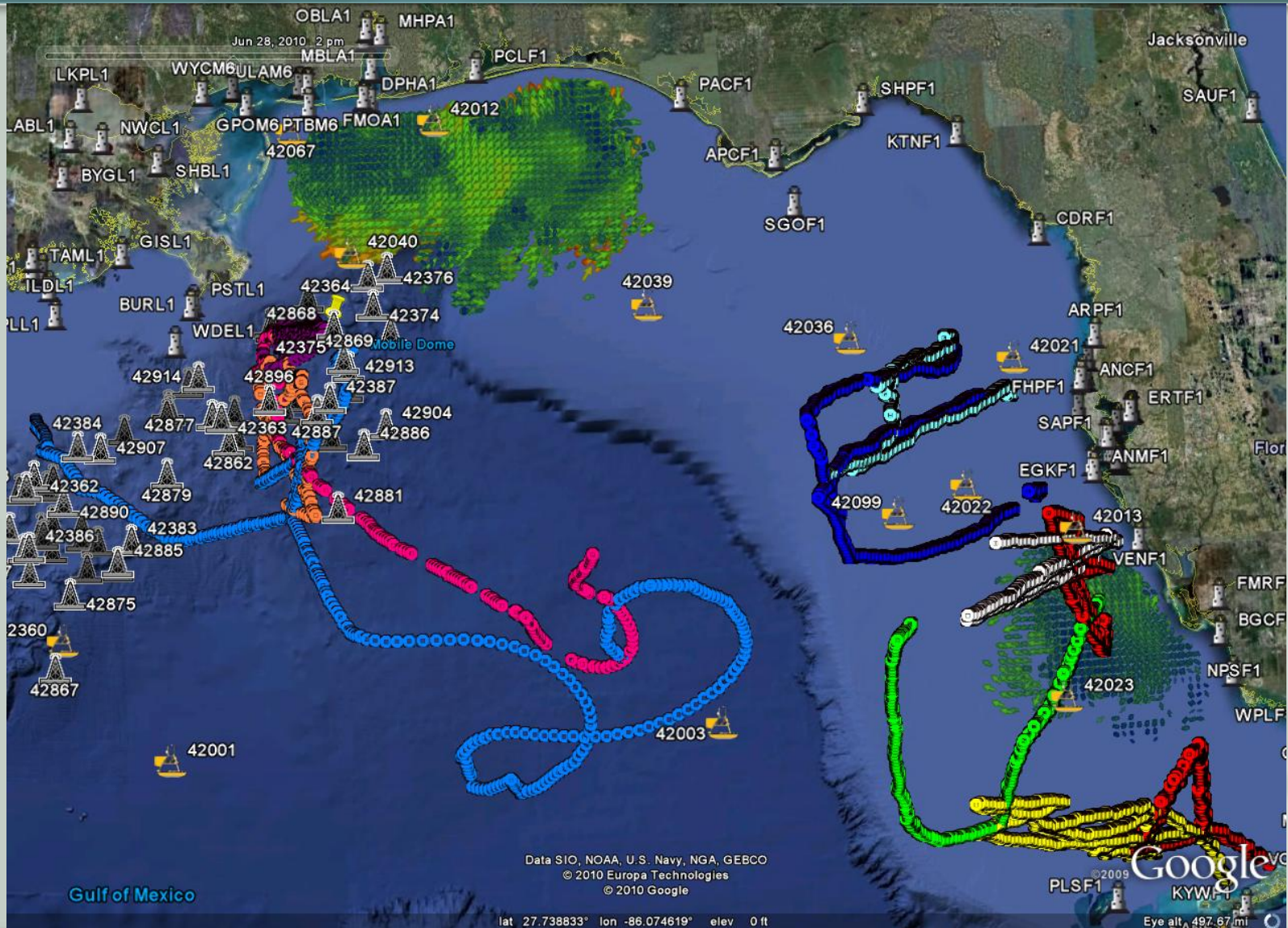


Ocean Observatories Initiative

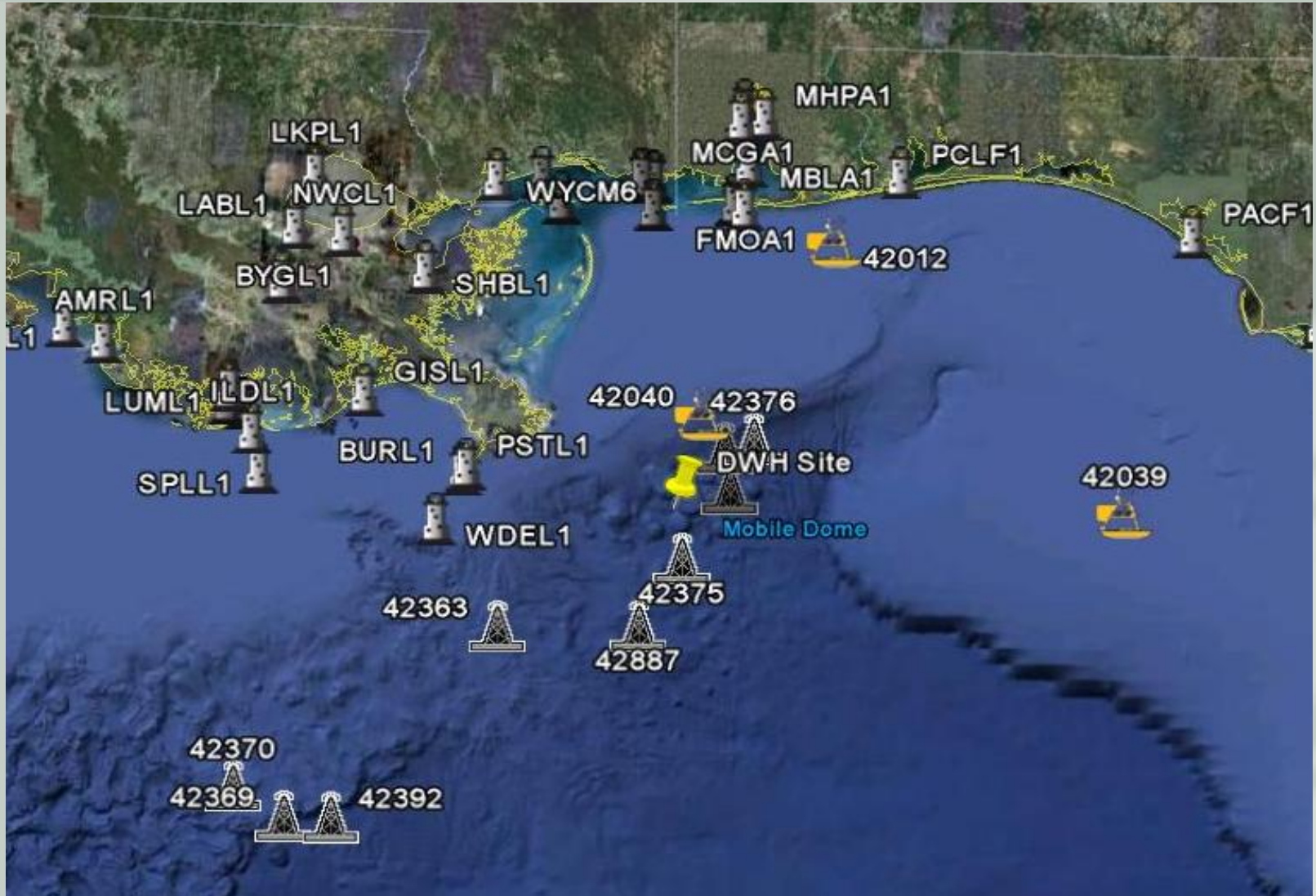


The OOI Program will conduct transformational ocean science using an integrated ocean observatory with a network of interactive nodes studying interrelated ocean processes on coastal, regional, and global spatial scales and through a continuum of time scales, from microseconds to decades.

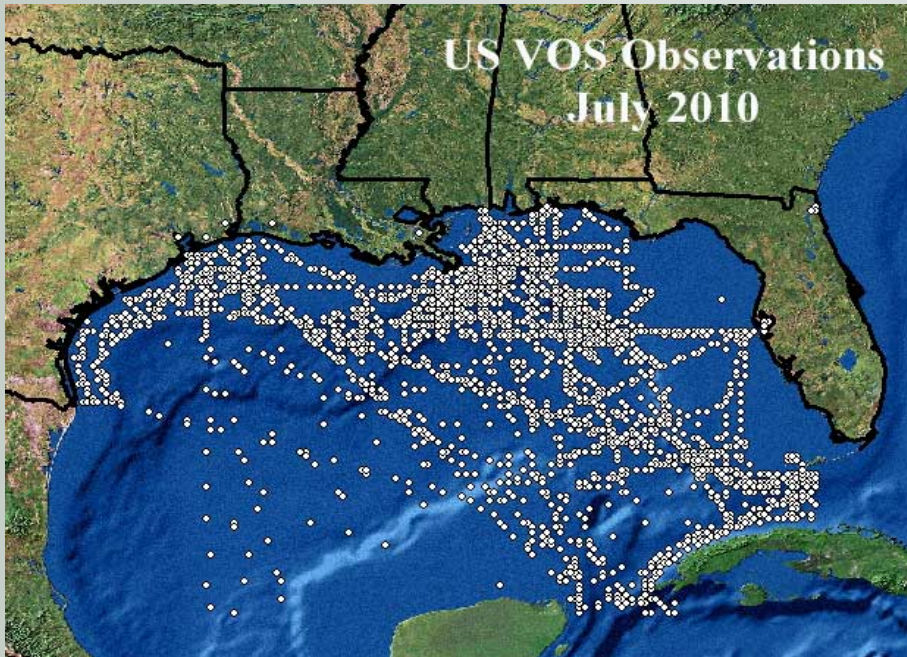
Gulf of Mexico Overview



Meteorological Data



Voluntary Observing Ship (VOS) Contributions



Collected Ship Observations 20 Apr, 2010 to 10 Jun, 2010

Requested reporting ships increase observation frequency to hourly if possible

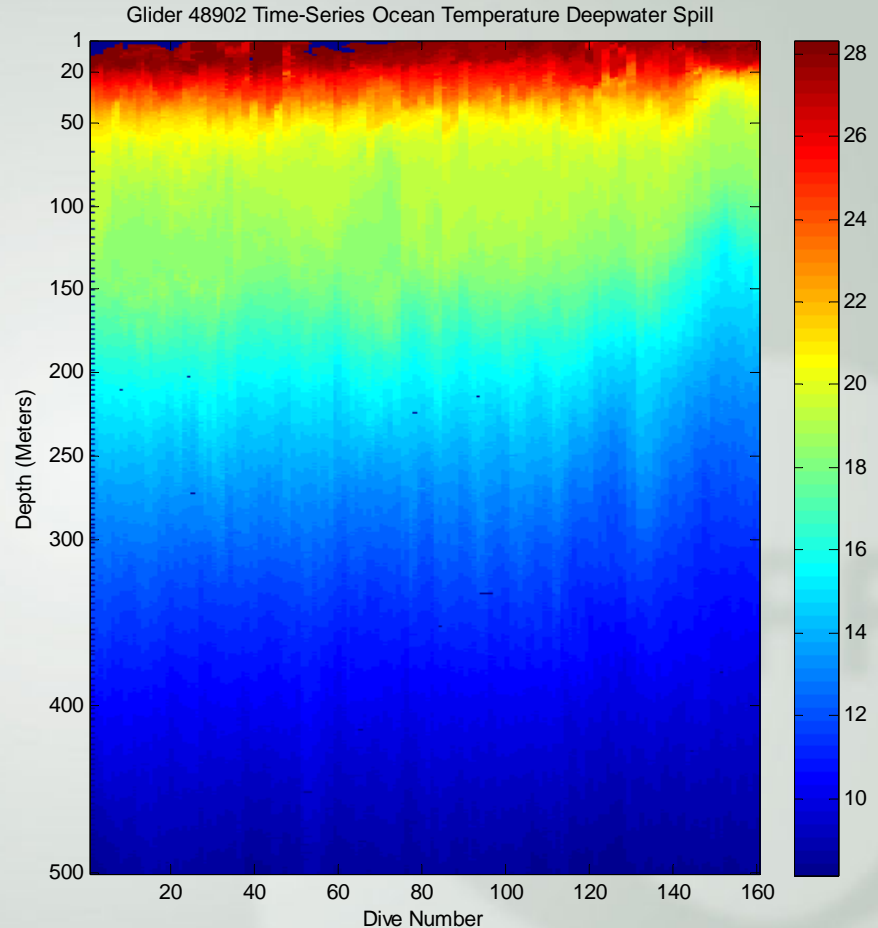
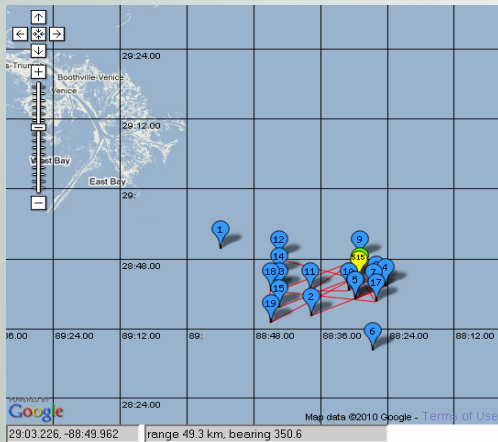
Dear Sirs,

- 1.) Date/Time: 0015 Z 08Jun 2010
- 2.) Position of Observation: L-29-16N/087-35.9W
- 3.) Name: Overseas Nikiski -WDBH
- 4.) Type of oil: Discoloration of water to light sheen with occasional spots of brownish masses.
- 5.) Est Size: Streaks and patches lasting about 10 miles
- 6.) Miscellaneous: Occasional odor of oil in the air

Best Regards, Capt. Michael F. Sullivan
Overseas Nikiski 813-417-4906

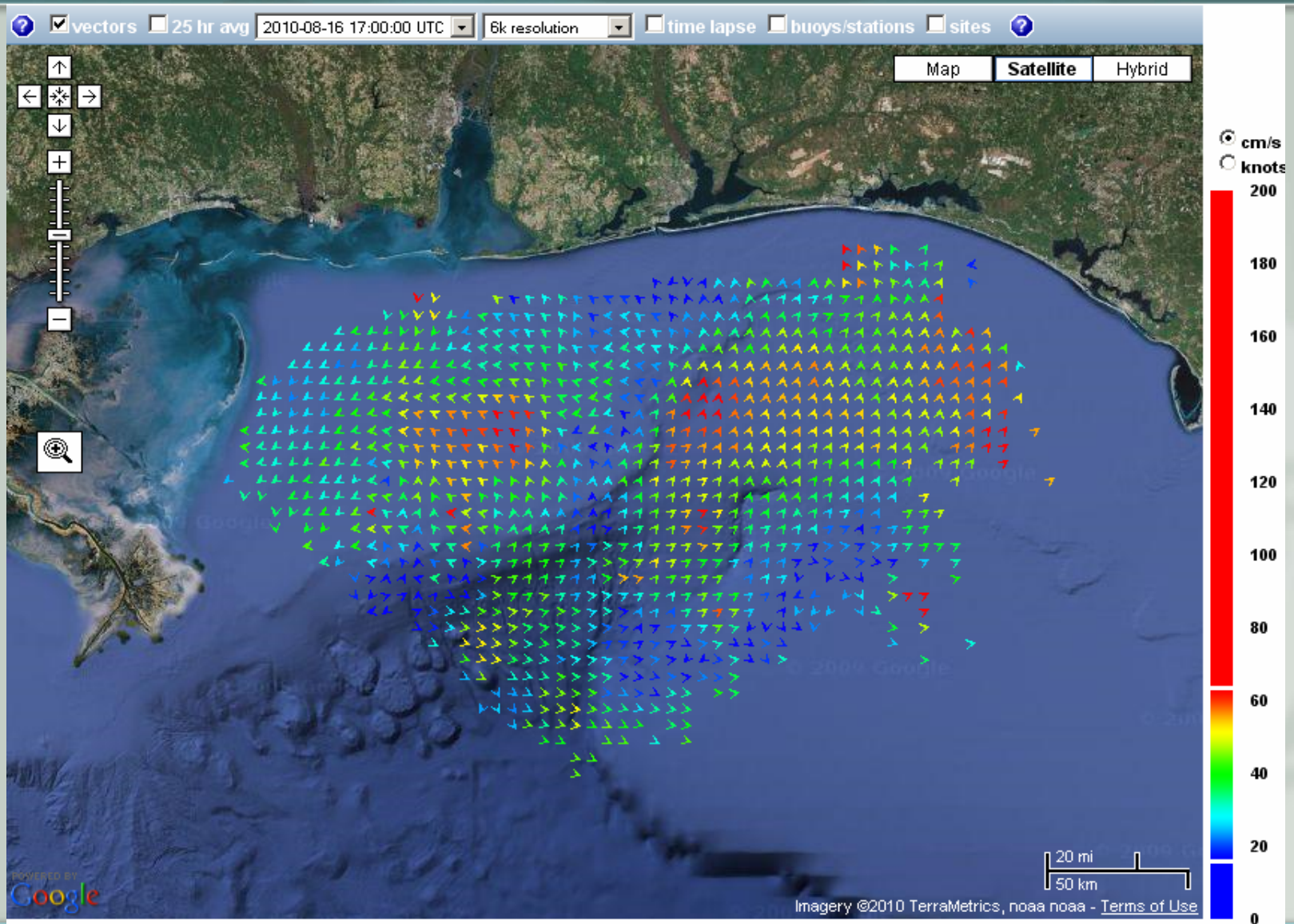
Special oil sighting reports being sent to VOSOILREPORT@noaa.gov
Data relayed to regional WFO Action Teams

GoM Glider Observations

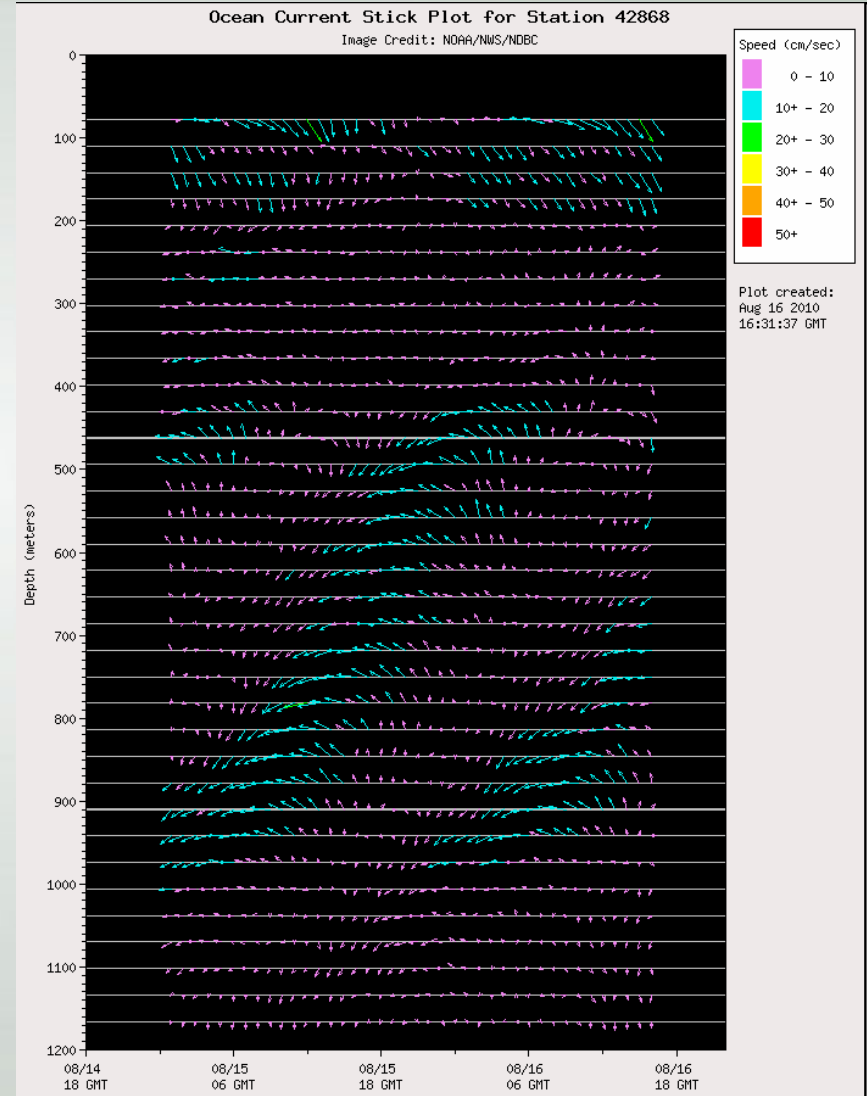
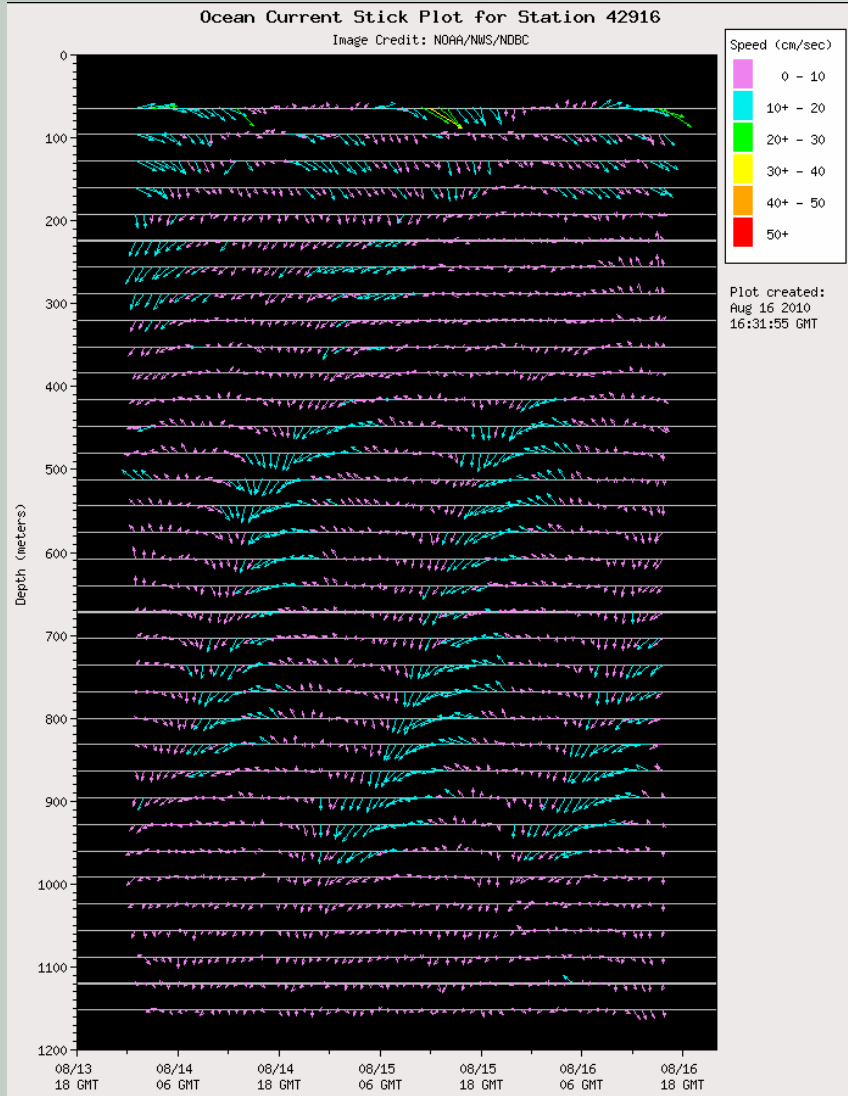


NDBC began releasing observations from 10 benthic gliders operated by Rutgers University, University of Washington, University of South Florida, University of Delaware, NAVO, SCRIPPS, and Mote Marine onto the GTS in support of the oil spill monitoring. In addition, NDBC is working with the United States Geological Survey (USGS) to provide the glider data to regional ocean modeling groups who currently unable to receive the data.

HF Radar Observations

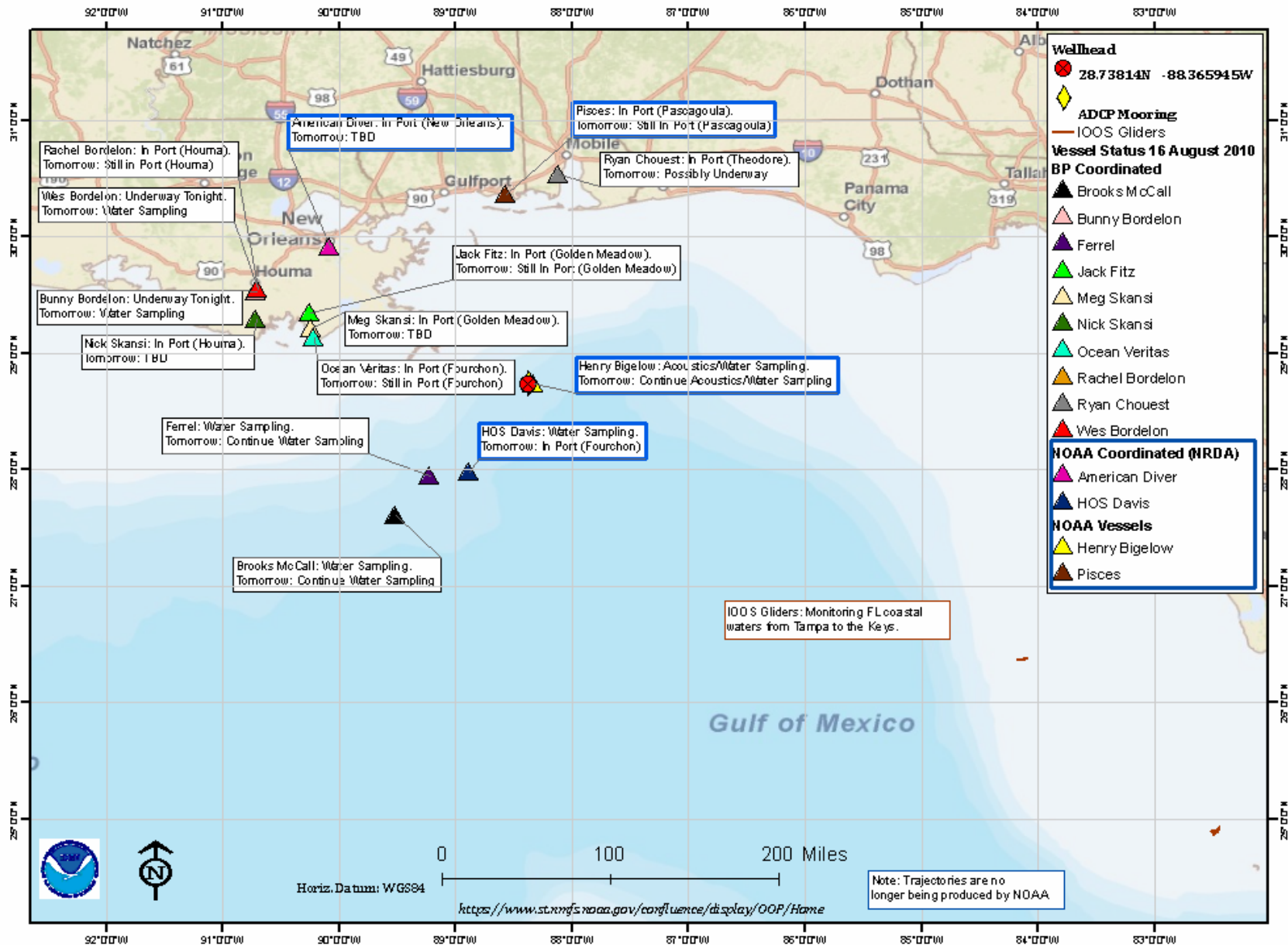


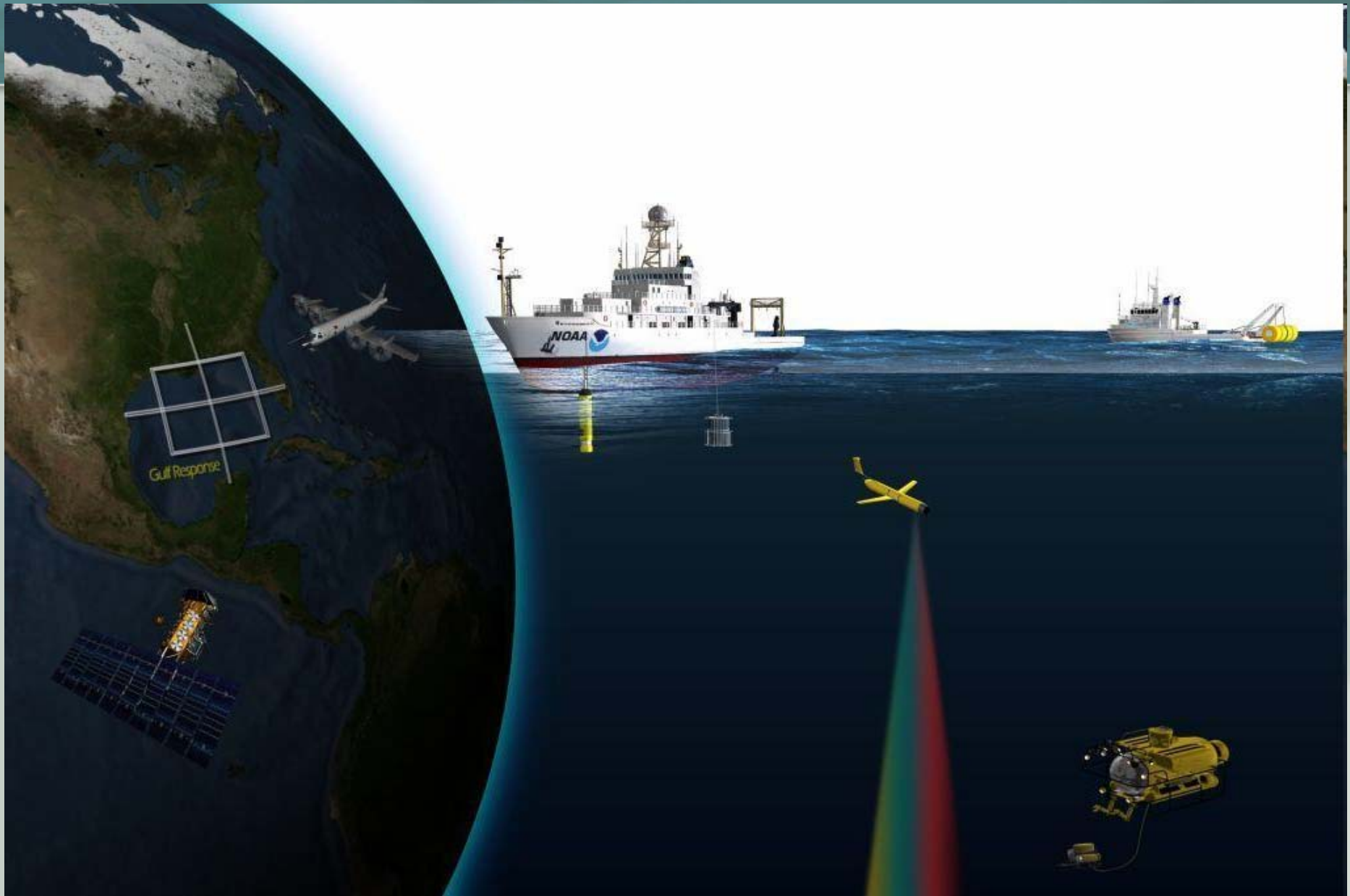
Current Profile Observations from Development Driller 3 and Discover Enterprise



Preliminary findings based on daily communication between assets and Subsurface Monitoring Unit

Deepwater Horizon, Gulf of Mexico





Thank you



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