

# US National Report 2012

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National Oceanic and Atmospheric  
Administration

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# Outline

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- 2012 Deployments and 2013 Plans
  - Atlantic Oceanographic and Meteorological Laboratory
  - National Data Buoy Center
  - Pacific Marine Environmental Laboratory
  - Naval Oceanographic Office
- Technical Developments
- Publications
- Issues

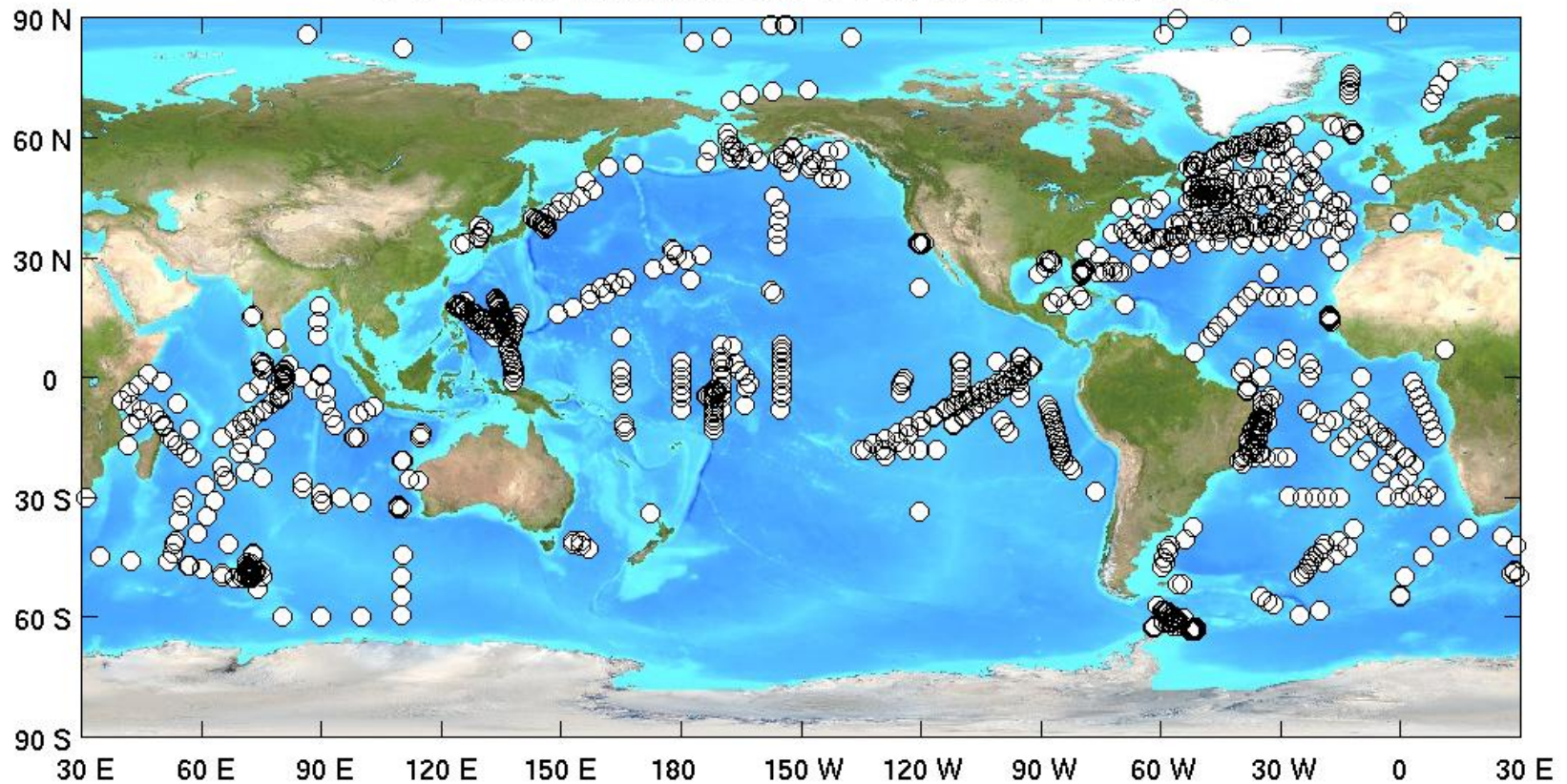
# NOAA Atlantic Oceanographic and Meteorological Laboratory

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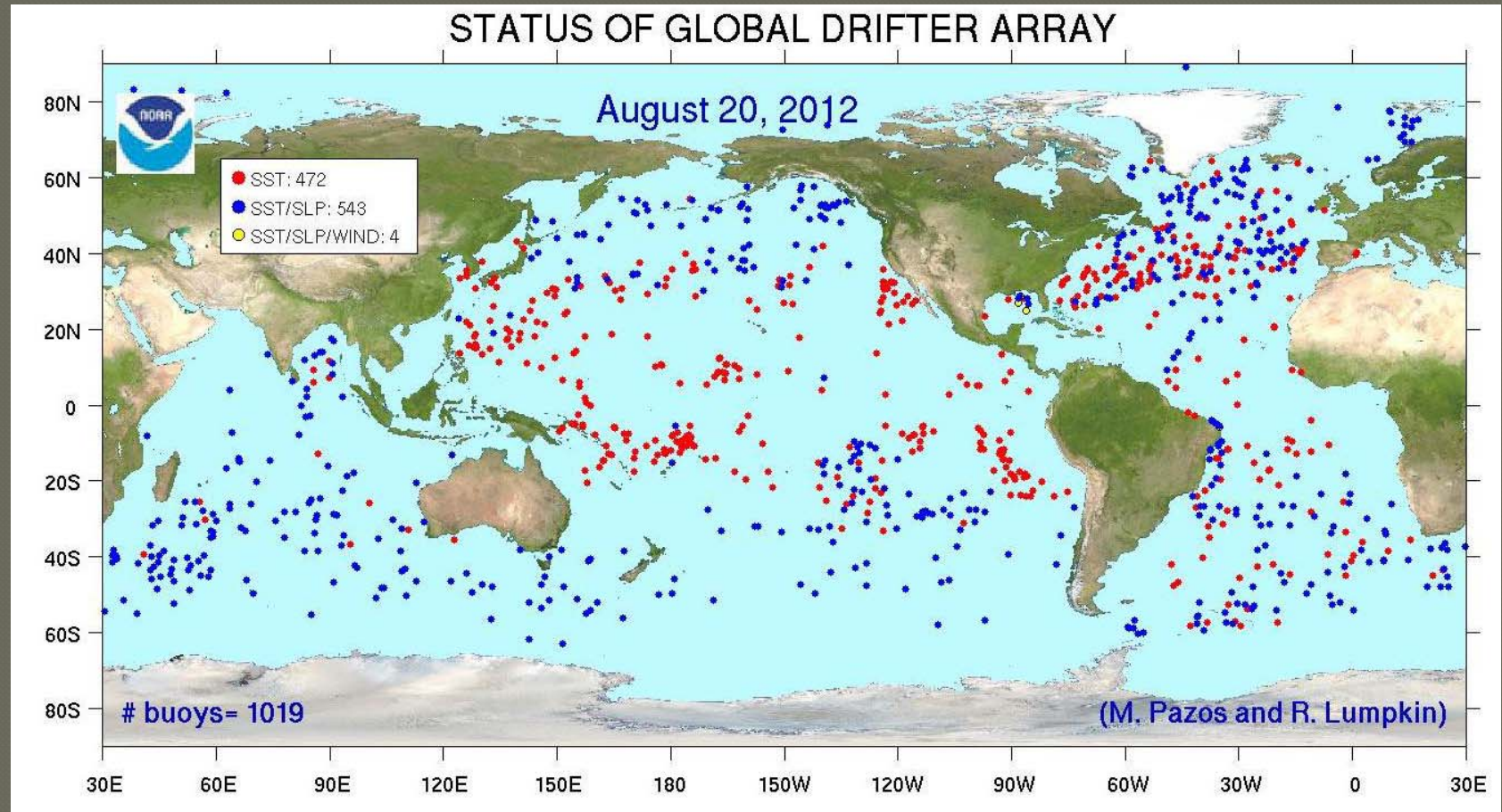
- Global Drifter Program
- 2011-2012
  - 1203 Deployed during the last year
  - 1029 operational 1 August 2012
  - 1029 reporting on GTS 1 August 2012
- 2012 – 2013 Proposed
  - 1000 to be deployed
    - 800 supported by NOAA Climate Program Office
    - 200 supported by Cooperative Research Partners

# GDP Drifter Deployments

GDP drifter deployments, 28 July 2011-27 July 2012



# AOML Global Drifter Array Status



# National Data Buoy Center

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- Moored Buoys
- 2011-2012
  - 43 deployed during the last year
  - 88 operational 1 August 2012
  - 88 reporting on GTS 1 August 2012
- 2012 – 2013 Proposed
  - 40 to be deployed

# National Data Buoy Center

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- Tsunameter Stations
- 2011-2012
  - 11 deployed during the last year
  - 30 operational 1 August 2012
  - 30 reporting on GTS 1 August 2012
- 2012 – 2013 Proposed
  - 20 to be deployed

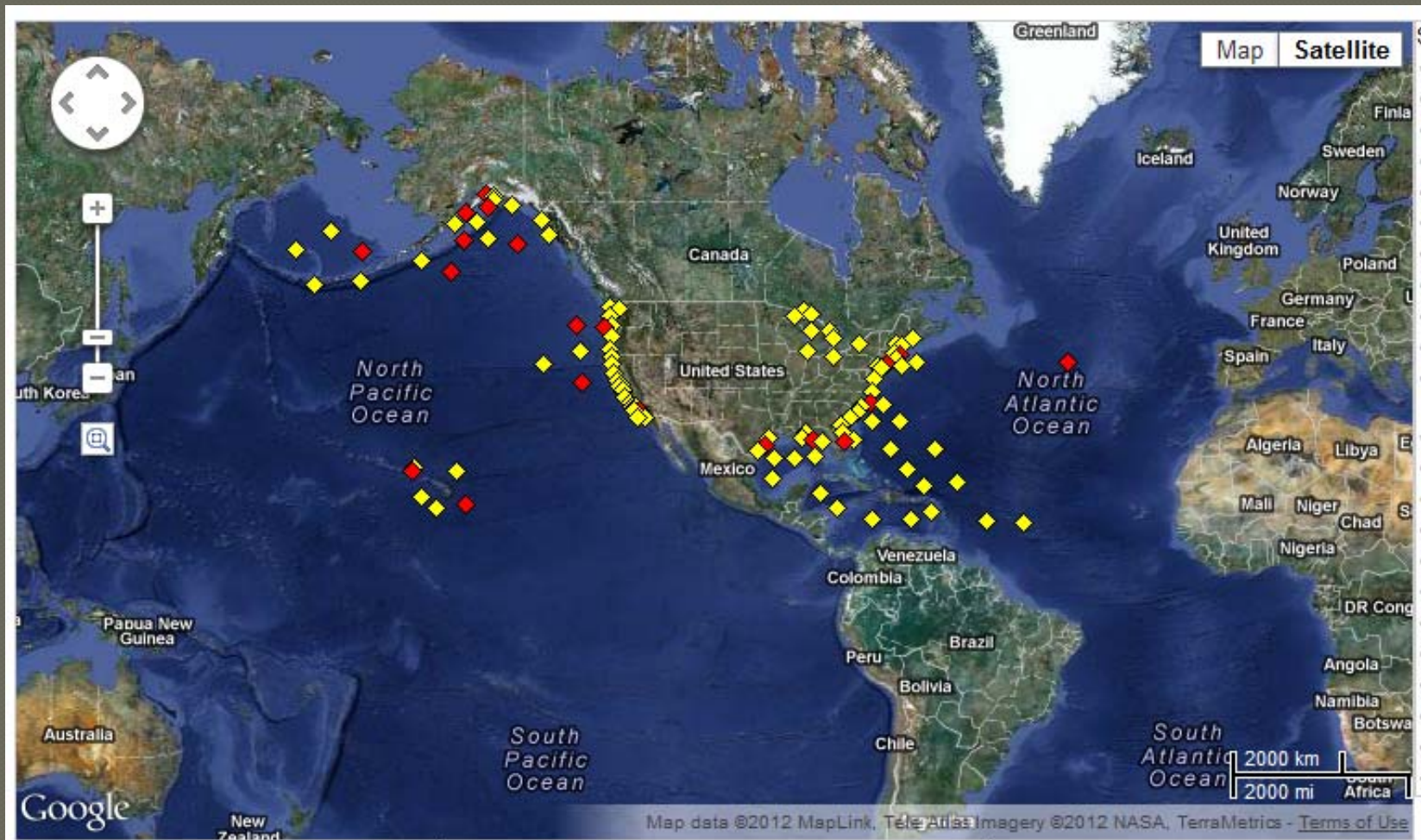
# National Data Buoy Center

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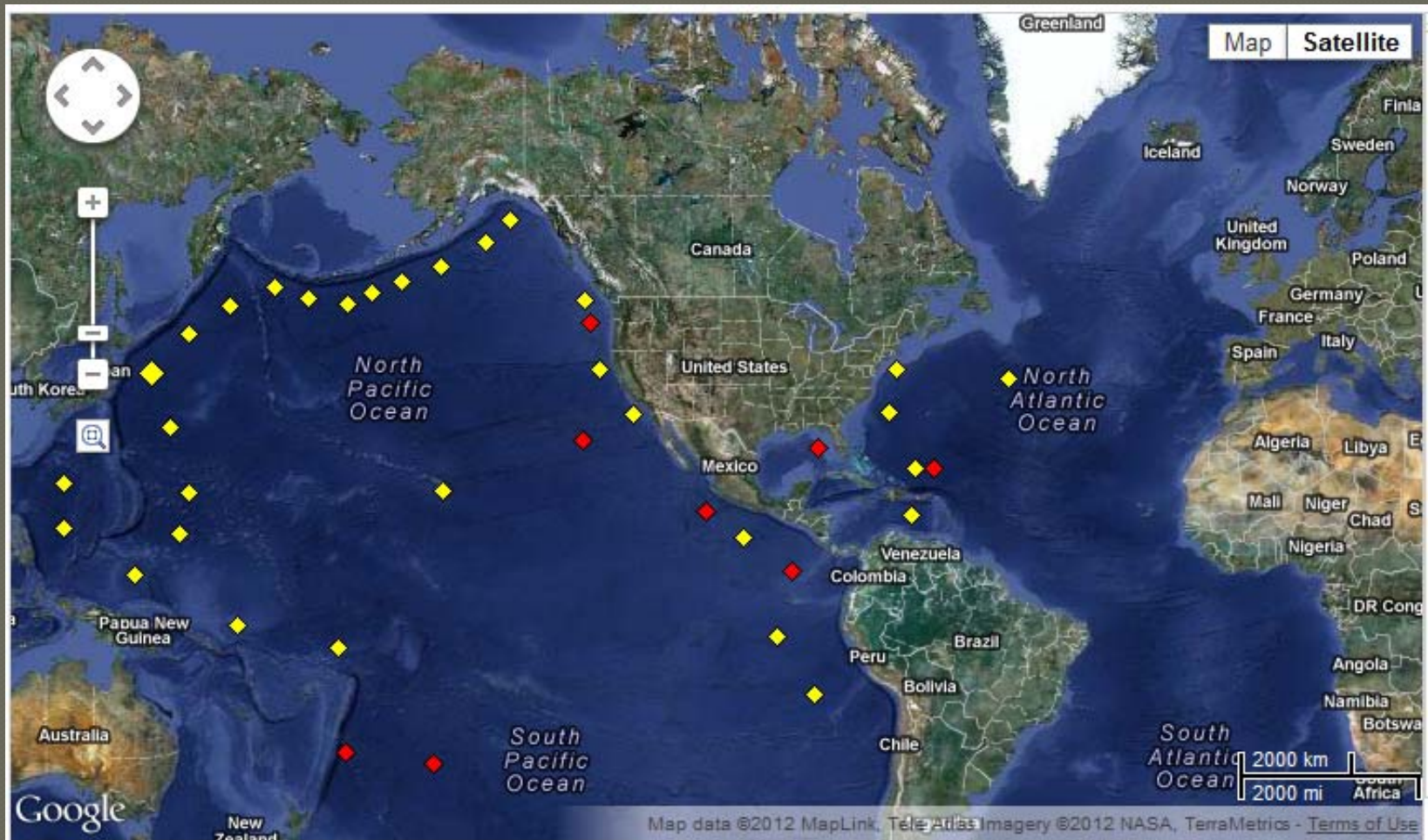
- Tropical Atmosphere Ocean (TAO) Array
- 2011-2012
  - 56/4 deployed during the last year
  - 42 operational 1 August 2012
  - 42 reporting on GTS 1 August 2012
- 2012 – 2013 Proposed
  - 55/4 to be deployed



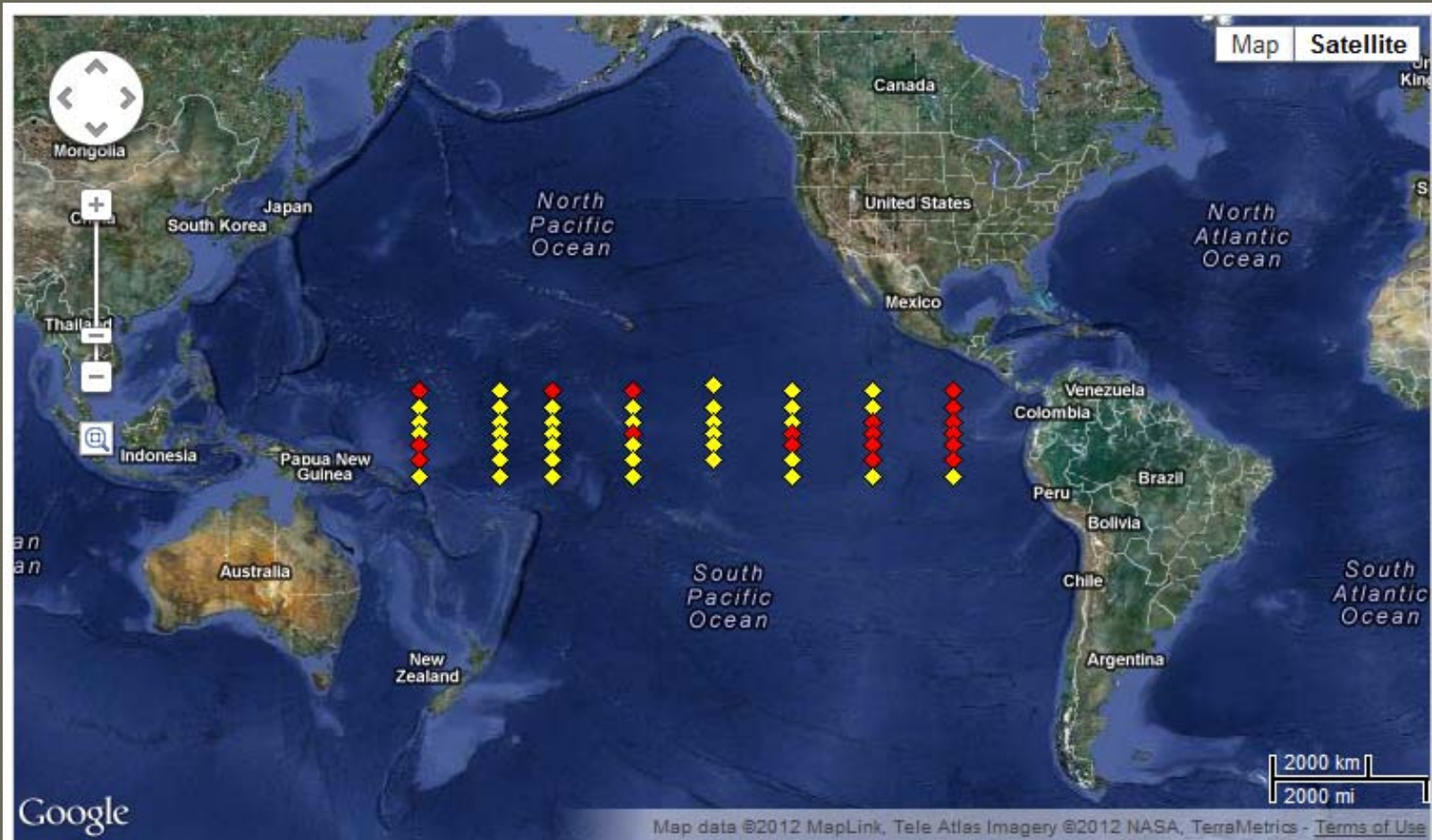
# NDBC METOCCEAN BUOYS



# NDBC Tsunami Meter Stations



# NDBC METOCCEAN BUOYS



# NOAA Pacific Marine Environmental Laboratory

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- Prediction and Research Moored Array in the Atlantic (PIRATA)
- 2011-2012
  - 11 deployed during the last year
  - 16 operational 1 August 2012
  - 16 reporting on GTS 1 August 2012
- 2012 – 2013 Proposed
  - 17 to be deployed

# NOAA Pacific Marine Environmental Laboratory

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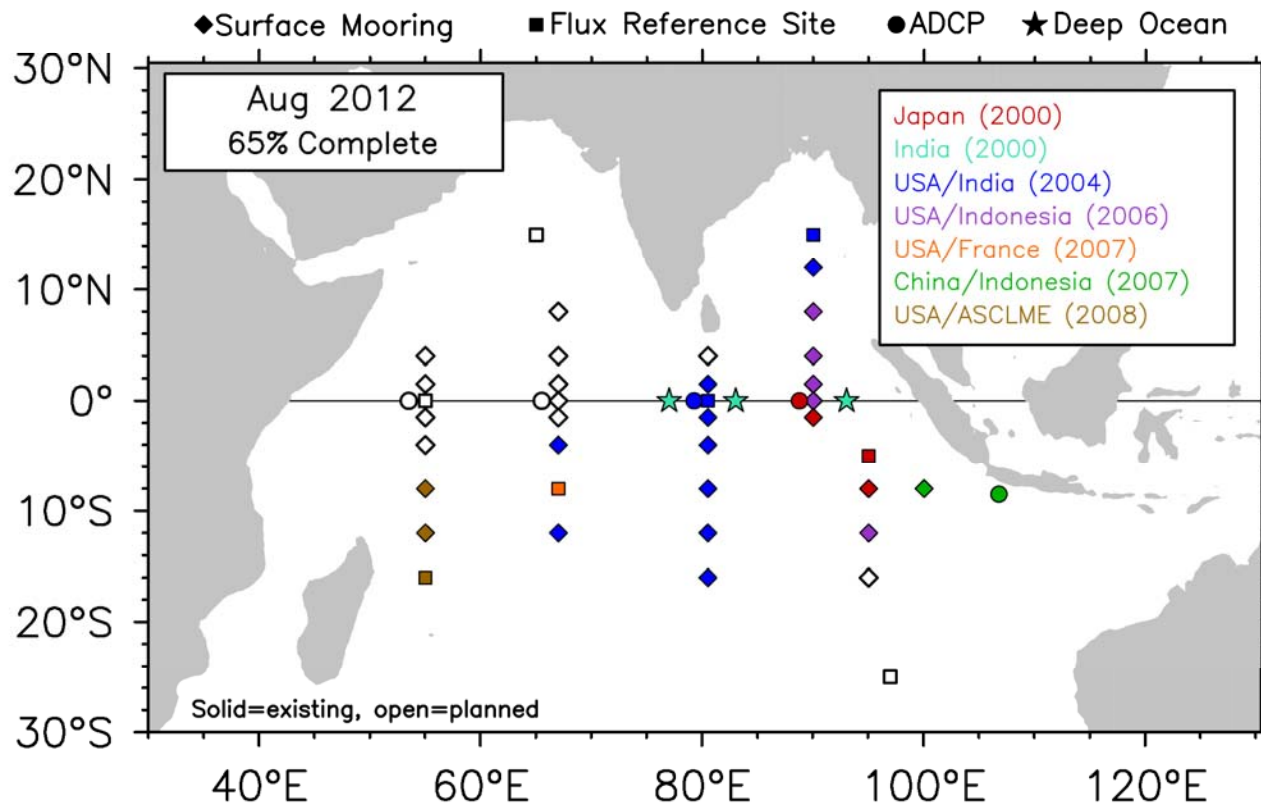
- Research Moored Array for African-Asian-Australian Monsoon Analysis and Prediction (RAMA)
- 2011-2012
  - 21/6 deployed during the last year
  - 18 operational 1 August 2012
  - 16 reporting on GTS 1 August 2012
- 2012 – 2013 Proposed
  - 22/10 to be deployed

# PMEL/AOML PIRATA Array



# PMEL RAMA Array

## Research Moored Array for African–Asian–Australian Monsoon Analysis and Prediction (RAMA)



# Naval Oceanographic Office (NAVOCEANO)

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- NAVOCEANO

- 2011-2012

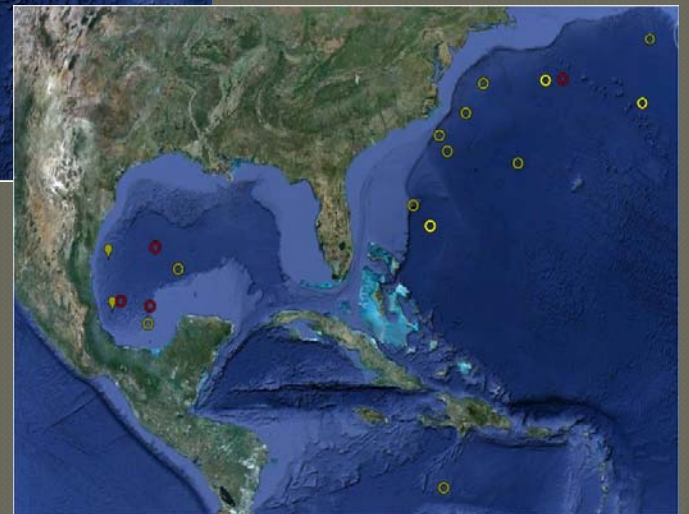
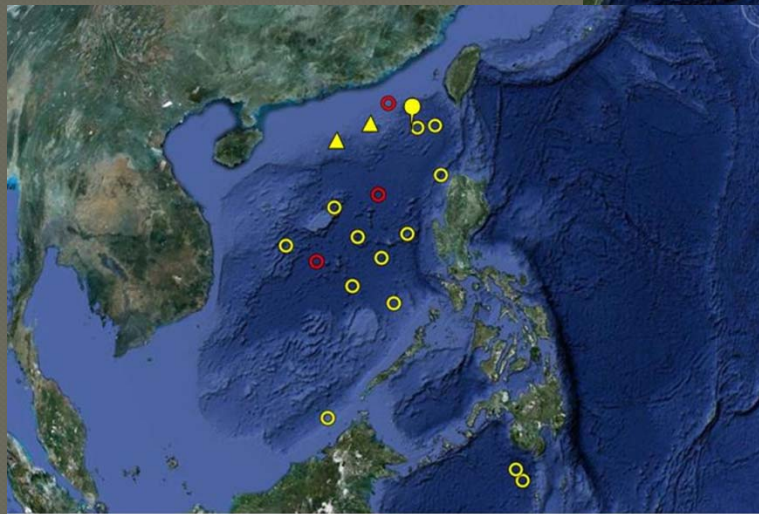
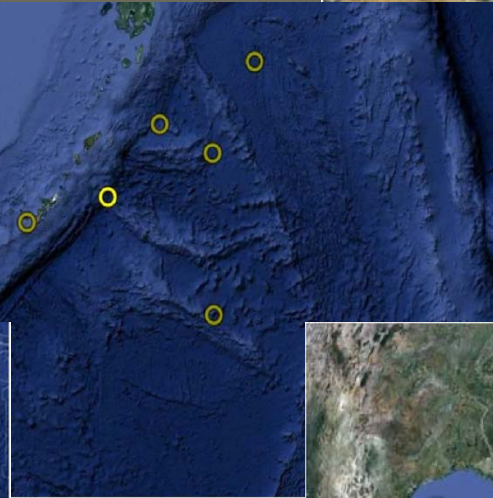
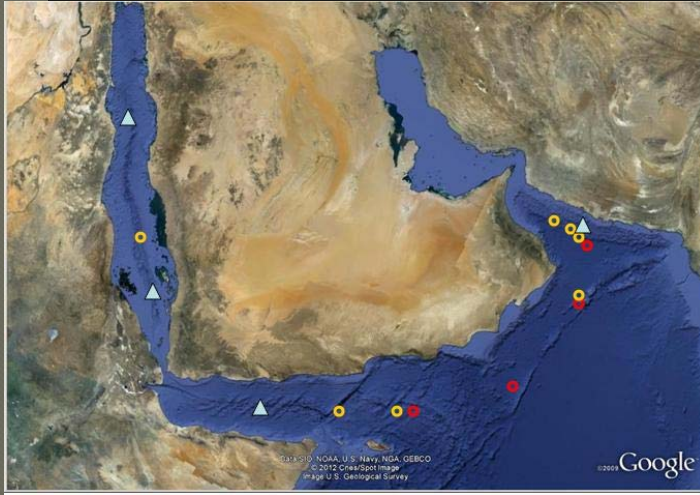
- 65 APEX floats deployed
- 27 SLDMB Davis drifters deployed
- 2 Isphere Iridium drifters deployed
- 68 operational 1 August 2012
- 68 reporting on GTS 1 August 2012

- 2012 – 2013 Proposed

- 78 profiling drifters
- 83 drifting buoys



# NAVOCEANO



# Technical Developments

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## ○ Buoy Design

- Recommendations
  - Ruggedized tether
  - High quality batteries
  - More accurate SST (0.05C)
  - Ruggedized drogue design
- Scripps Institution of Oceanography
  - Completed design and began production of SVP and SVPB
  - Evaluating new tether material on 20 SIO units

## ○ Buoy Deployments

- PMEL continues to test the Tropical-Flex (T-flex) buoy
- NDBC deployed 24 Refresh buoys in the TAO array

# Publications

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- 32 Publications

## ○ Vandalism

- DBCP Task Team on Vandalism includes 3 US representatives
- Support of UN Resolution A/66/L.22 Sustainable Fisheries
- Support of UN Resolution A/66/L.21 Oceans and the Law of the Sea
- “measures to protect data buoy systems in areas that are beyond national jurisdiction, and to take necessary action needed to cooperate with relevant organizations seeking to protect such data buoys.”

# Thank You!

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Questions

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