

NOAA Tsunami Program Update

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Annual NTHMP Meeting
Menlo Park, CA
January 28, 2014

New Program Developments

- SIFT v3.1 Operational
- FY14 Budget
- Operational Transition of TWC Models to NCEP
- Phase 2 Awarded for IT Modernization of TWC Operational System
- TsunamiReady Program shifted to Tsunami Program Office
- NWS Restructuring
- Strategic Plan
- Program Staff
- Tsunami.gov

Program Components

Forecast and Warning

- Pacific Tsunami Warning Center (PTWC)
 - National Tsunami Warning Center (NTWC)
 - DART Buoys—National Data Buoy Center (NDBC)
 - Tide gauges—Center for Operational Oceanographic Products and Services (CO-OPS)
 - Seismic Networks (AK, HI, Caribbean)
 - Pacific Marine Environmental Laboratory (PMEL)—Models/Sensors
 - National Geodetic Data Center (NGDC)—Digital Elevation Maps/archive
- TWCs**
- Observations**
- Research**

Information and Mitigation

- International Tsunami Information Center (ITIC)
 - Caribbean Tsunami Warning Program (CTWP)
 - NWS International Activities (Coordination)
 - National Tsunami Hazard Mitigation Program (NTHMP)
 - NWS Regions/WCMs
- International**
- Domestic**

Budget

FY 13

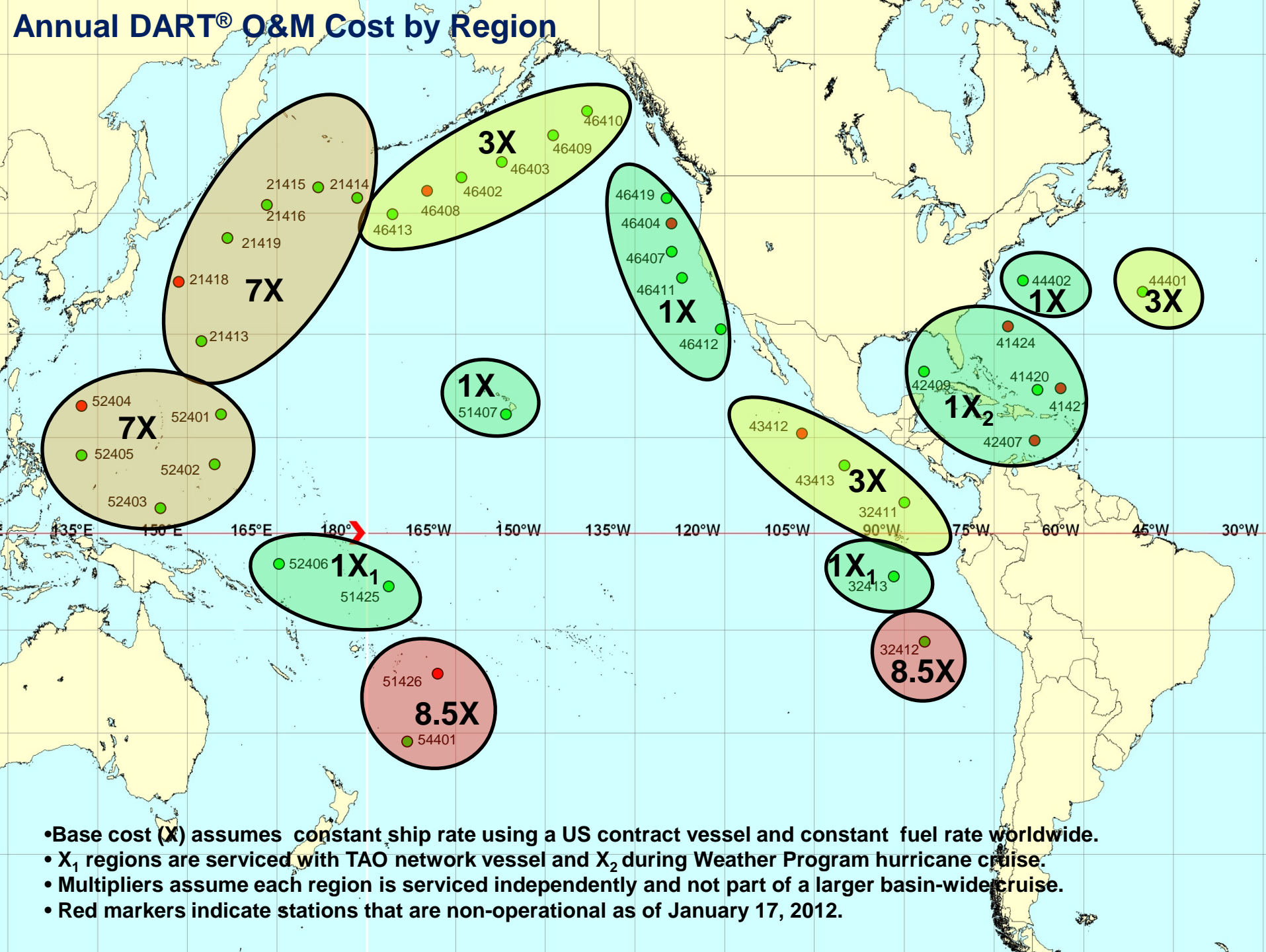
FY14

\$22M

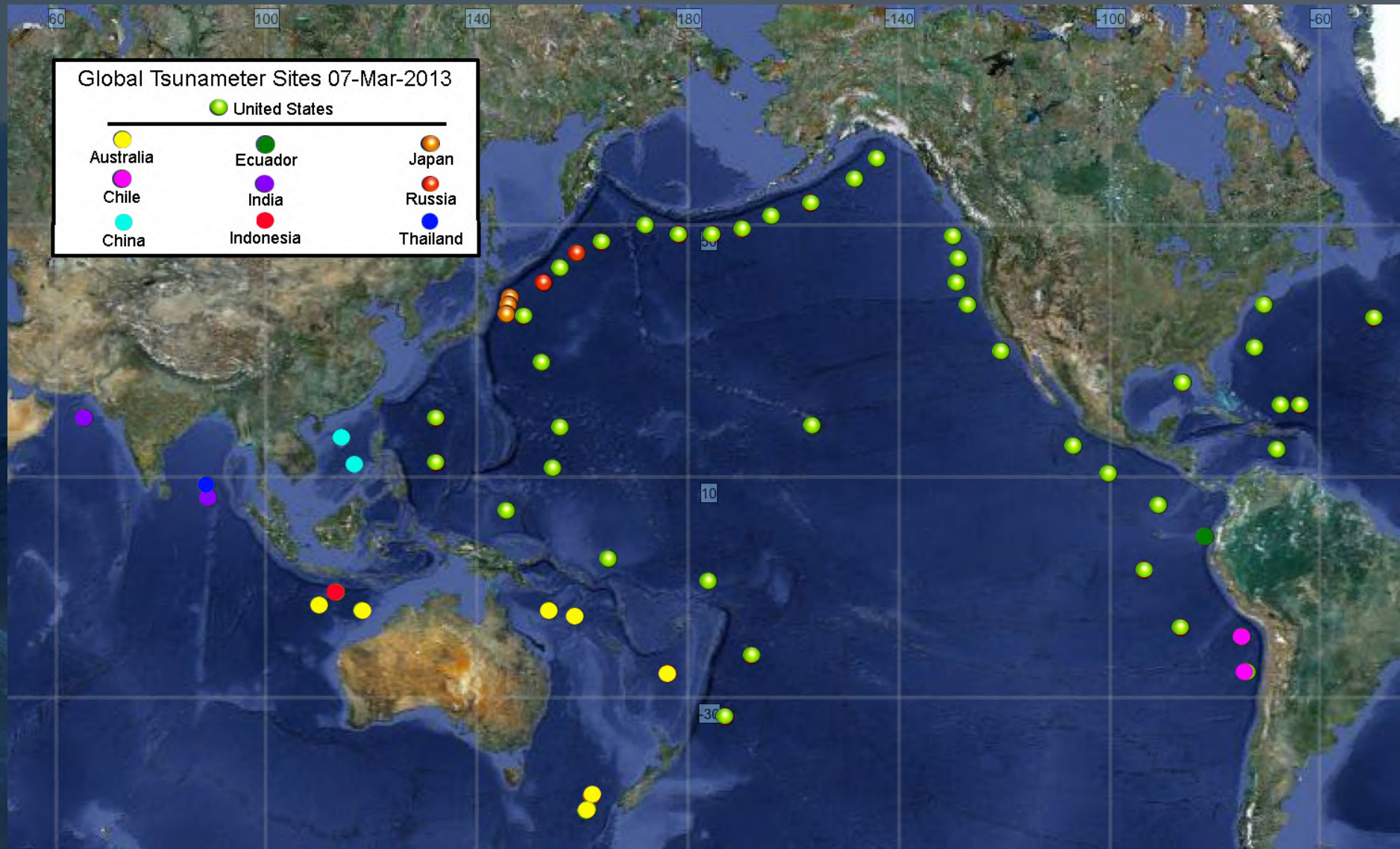


\$21M
(CR)

Annual DART® O&M Cost by Region

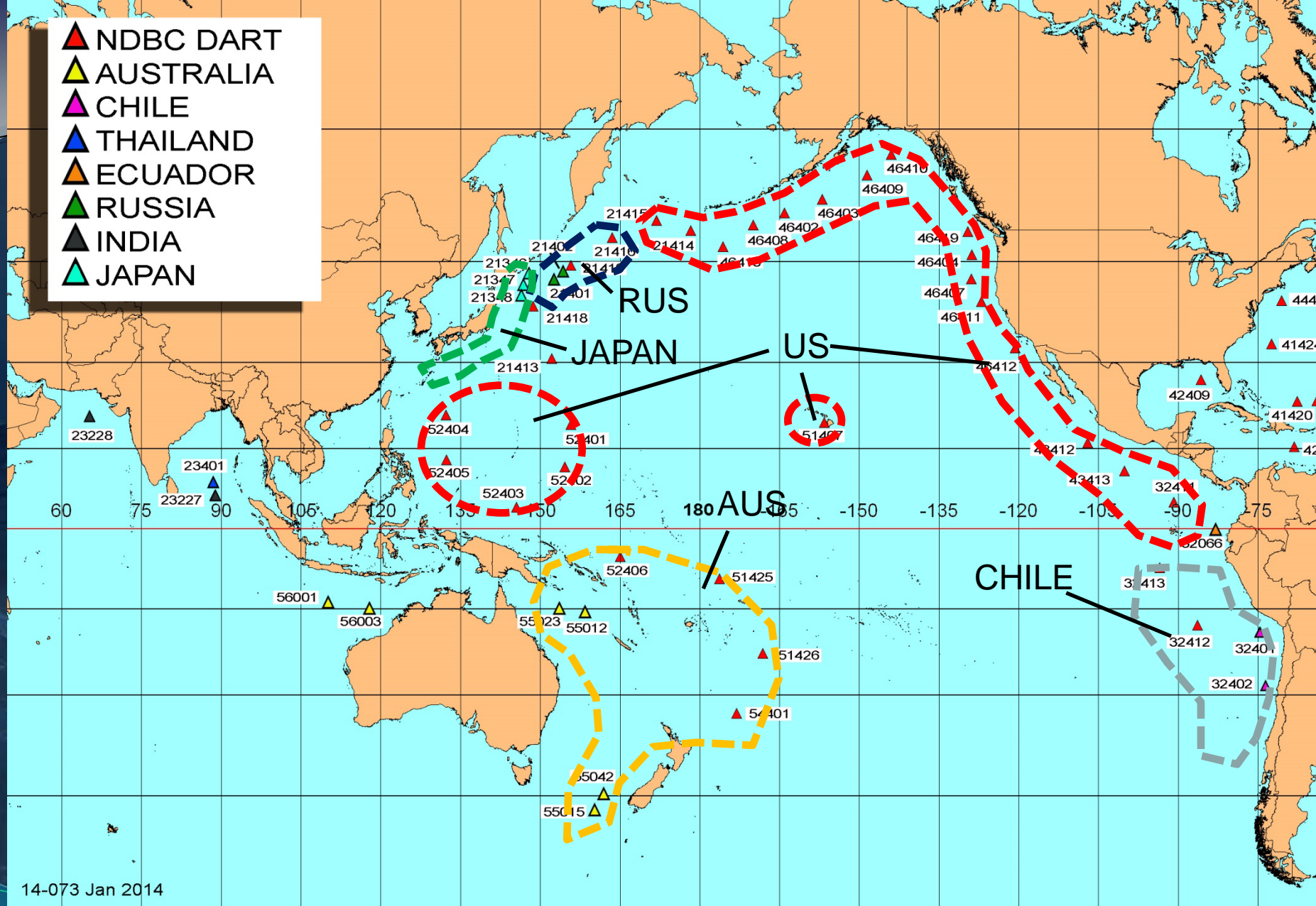


- Base cost (X) assumes constant ship rate using a US contract vessel and constant fuel rate worldwide.
- X₁ regions are serviced with TAO network vessel and X₂ during Weather Program hurricane cruise.
- Multipliers assume each region is serviced independently and not part of a larger basin-wide cruise.
- Red markers indicate stations that are non-operational as of January 17, 2012.



Deep Ocean Assessment and Reporting of Tsunami (DART) Buoys

- ▲ NDBC DART
- ▲ AUSTRALIA
- ▲ CHILE
- ▲ THAILAND
- ▲ ECUADOR
- ▲ RUSSIA
- ▲ INDIA
- ▲ JAPAN



14-073 Jan 2014

Notional Collective Sensing Responsibility Zones
(Represents potential U.S. O&M savings of \$5.29M/yr)

2/10/2014

TWERA

- Both House and Senate remain interested
- NOAA OLA remains engaged
- Little progress in the past year
- May see a "discussion draft" or even an introduced TWERA bill this spring or summer after PB15 delivered.

Program Challenges

- NWS Restructuring
- TWC Alignment and consistency
- Comprehensive Sensing strategy
- Staffing
- R&D/OT&E
- International commitments

Opportunities (FY14 and beyond)

- Stable and consistent NTHMP support
- TWC common practices through IT Mod
- More meaningful and sustainable TsunamiReady designations
- Research targeted at operations and mitigation
- International Cooperation and Leveraging



Thank You