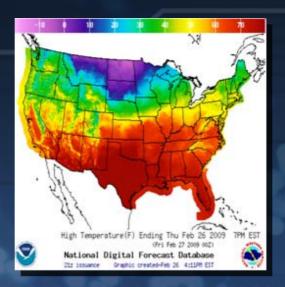
Building a Weather-Ready Nation









National Weather Service Building a Weather-Ready Nation

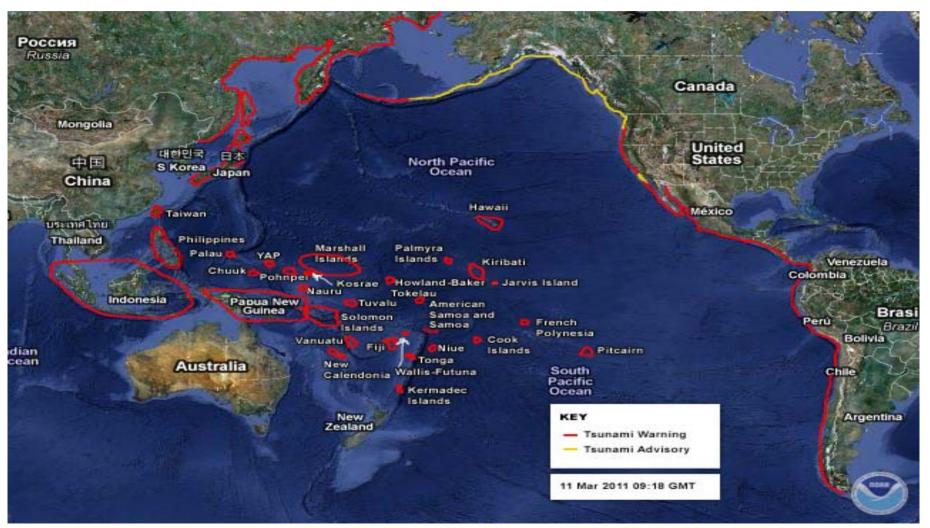
SITREP for March 21, 2011 FY 12 Budget Request Dr. Jack Hayes



NOAA Assistant Administrator for Weather Services and NWS Director



Operational SITREP Tsunami



NOAA's Tsunami Warning and Advisory Areas for Japan Tsunami

03/11/2011 - 04:18am EST

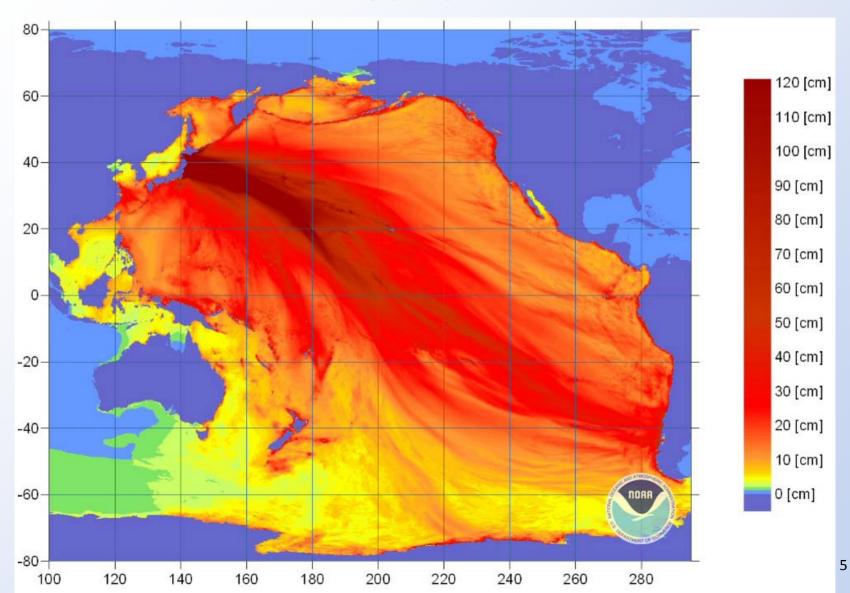
Operational SITREP Tsunami





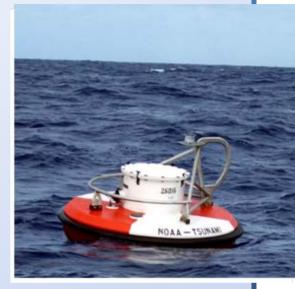
http://www.tsunamiready.noaa.gov

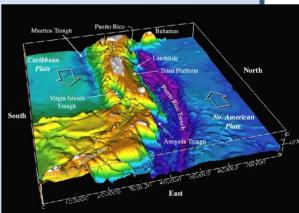
Operational SITREP Tsunami

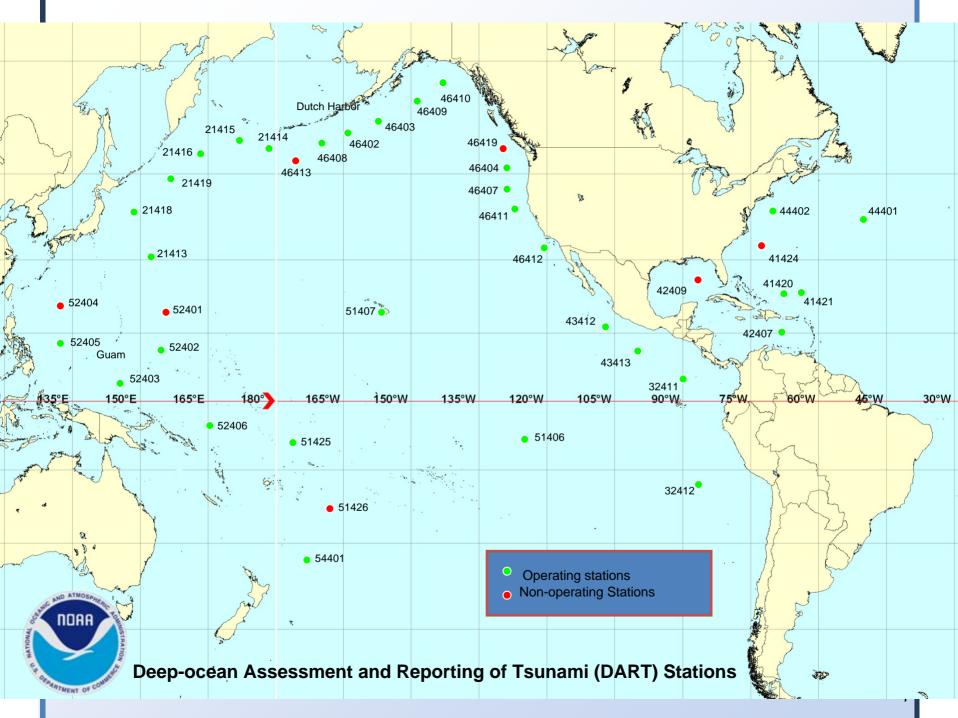


Operational SITREP Tsunami

- 24/7 Tsunami Warning Centers
- Detection and Evaluation of Earthquakes
 - Seismic Networks
- Detection and Evaluation of Tsunami Waves
 - 39 DART Stations (Atlantic, Caribbean, and Pacific
 - 164 Water-level Stations
- Forecasting the Tsunami Threat
 - Modeling
- Product Generation and Dissemination
 - Warnings, Watches, Advisories and Bulletins



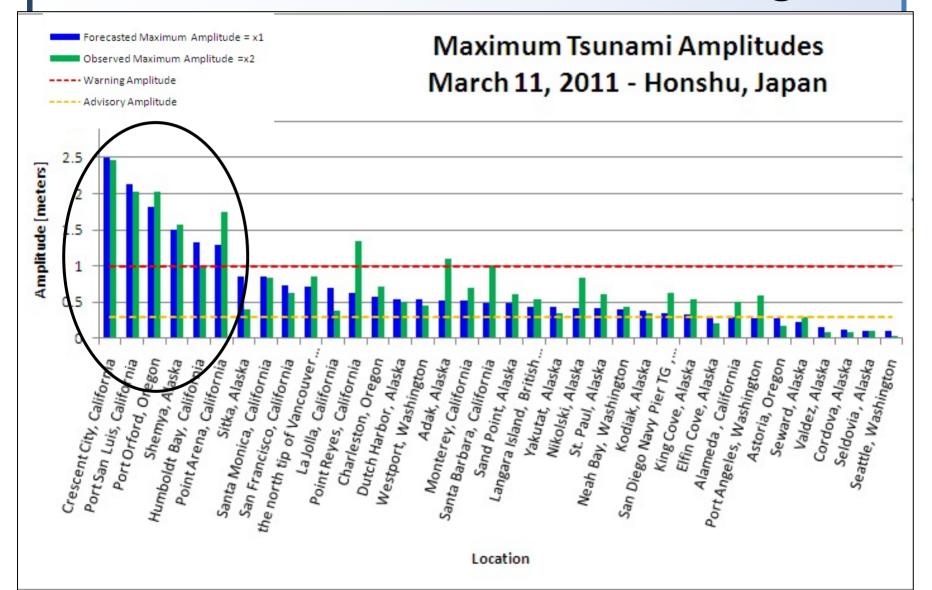




Operational SITREP Tsunami, March 11, 2011



Operational SITREP Forecast and Observed Wave Heights



Operational SITREP Spring Outlook

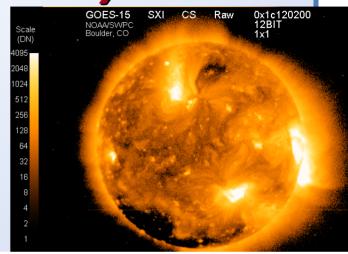


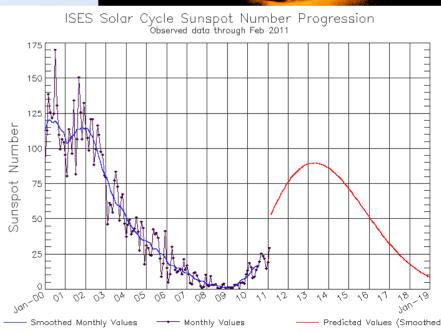
Operational SITREP

Space Weather Activity

- Solar Maximum in 2013
- Space Weather Impacts
 - Satellites
 - GPS Reliability
 - Aviation (Polar Flights)
 - Energy distribution
- 2 geo-magnetic storms
 - HF Radio
 - Airline Routes

http://www.swpc.noaa.gov/





Building a Weather-Ready Nation NWS Response to A Changing World

Annual Averages



6 Atlantic Hurricanes



1,300 Tornadoes



5,000 Floods



26,000 Severe Thunderstorms



Drought and Large Wildfires



600 Deaths \$14B in Losses

Building a Weather-Ready Nation NWS Response to A Changing World

- Trends & Changing Needs
 - Population growth and demographic trends increase vulnerability
 - 50% of U.S. population living along coasts
 - Urbanization
 - High-impact weather
- NWS People and Infrastructure
- NWS Future

Building a Weather-Ready Nation FY12 Budget Overview

- FY 2012 NWS \$988.0M
 - \$11.9M (1.2%) decrease from the FY 2010 Enacted
 - Net increase of \$3.1M (0.3%), after the \$15.0M technical transfer of programs to the NCS.
 - \$16.8M for non-labor inflationary Adjustments to Base
 - (\$15.0M) for Climate Reorganization
 - (\$13.7M) for Program Changes
- Supports the priorities of the Administration,
 Department of Commerce, and NOAA.

Building a Weather-Ready Nation NWS Budget Change Table

Budget Line – Program Change	Program Change (\$ in millions)
Local Warnings & Forecasts Base	
- National Data Buoy Center	\$4.0M
-GPS Radiosondes	\$5.0M
- Aviation Weather: NextGen	\$26.9M
-National Critical Space Weather System	\$2.0M
-Cooperative Observer Program	(\$1.2M)
-Telecommunications Efficiencies	(\$3.2M)
-National Mesonet Program	(\$19.0M)
Weather and Climate Supercomputing	\$11.0M
NEXRAD - Product Improvement	(\$2.2M)
Complete & Sustain NOAA Weather Radio	(\$5.4M)
NOAA Profiler Conversion	(\$2.0M)
Weather Forecast Office Construction	\$3.2M

Building a Weather-Ready Nation Plan for the Future

Meet State, Local, and Federal Needs

- Improve weather, water, and climate decision services for events that threaten lives and livelihoods
- Improve warning accuracies and lead times for high-impact events
- Better communicate levels of confidence in our forecasts
- Help improve community emergency preparedness and response
- Embed with Emergency Managers
- Enable the Weather Enterprise



Building a Weather-Ready Nation



