

# NOAA UPDATE

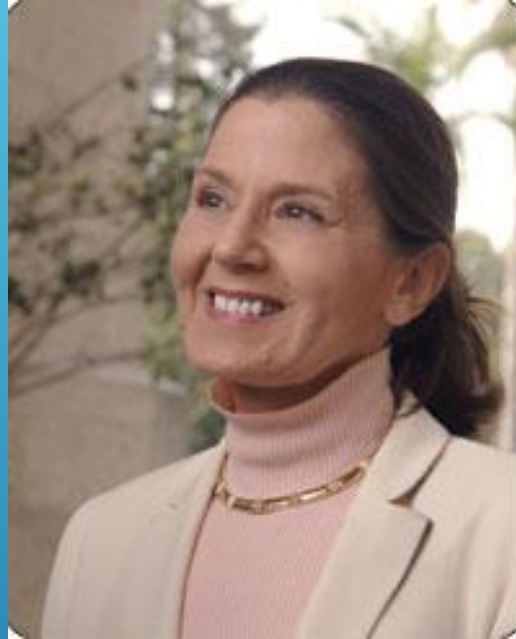
Science Advisory Board

Kathryn D. Sullivan, Ph.D.  
Under Secretary Of Commerce for Oceans and  
Atmosphere  
and NOAA Administrator

July 29, 2014  
Boulder, Colorado



# WELCOME



Lynn Scarlett  
SAB Chair

# CHANGES IN NOAA LEADERSHIP



Dr. Rick Spinrad  
Chief Scientist



David Kennedy  
Consultant



Gary Reisner  
Acting Budget Director



Zachary Goldberg  
Acting CIO

Mark Paese  
NESDIS Acting AA



Craig McLean  
OAR Acting AA



Achieve organizational excellence

# AWARDS



News & Features Maps & Data Teaching Climate Supporting Decisions About Contact FAQs Site Map What's New?

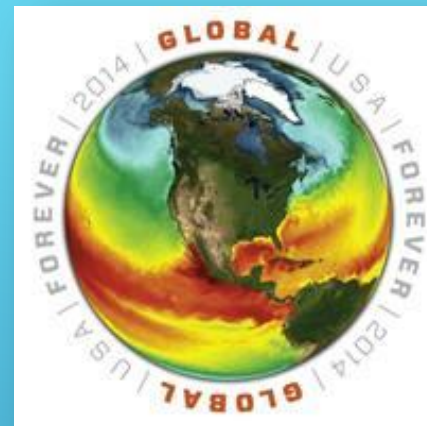
Featured on Climate.gov 1 2 3 4



"Earth: Our home. NOAA's mission."



U.S.  
Postage  
Stamp



'Making a Difference'  
Award



Space  
Foundation's  
Space  
Technology  
Hall of Fame

[MarineCadastre.gov](http://MarineCadastre.gov)

Maps Data Uses Tools News Abo

[marinecadastre.gov](http://marinecadastre.gov) wins  
DOC 2014 Energy and  
Environmental Stewardship  
Award for Renewable Energy

Runner Up: NWS Thomas McGuire,  
Thomas Day and Steve McHale



NOAA SCIENCE ADVISORY BOARD



# AWARDS

- **Dr. Mike Cantin**, Dr. Arthur Chiu **Hurricane Preparedness Award** from the Hawaii State Hurricane Advisory Committee and State of Hawaii Civil Defense Agency
- Scott Lindsey, Alaska River Forecast Center, **2014 NWS Gregg B. Rishel Award**
- **Dr. Tim Beechie**, NWFSC, Western Division of the American Fisheries Society **2014 Award of Excellence**
- **Dr. Jay Barlow**, SWFSC, **President**, Society for Marine Mammology
- **Robin Waples**, NWFSC, **President**, American Genetic Association & Edward T. LaRoe III Memorial Award, Society of Conservation Biology
- **Dr. Steven Bograd**, SWFSC, invited to be **Editor-in-Chief** of Fisheries Oceanography
- **Melinda Marquis**, OAR, **2014 Annual Achievement Award** from the Utility Variable-Generation Integration Group (UVIG)
- **Dr. Melissa Kenney**, OAR, 2013 Water Resources (WRR) **Research Editor's Choice Award**



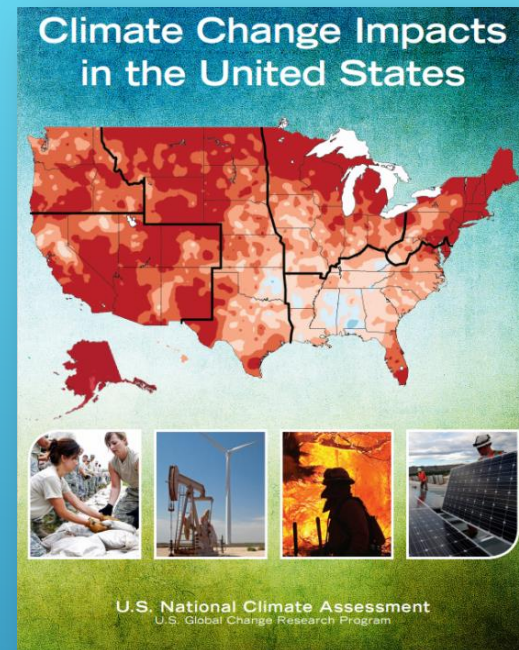
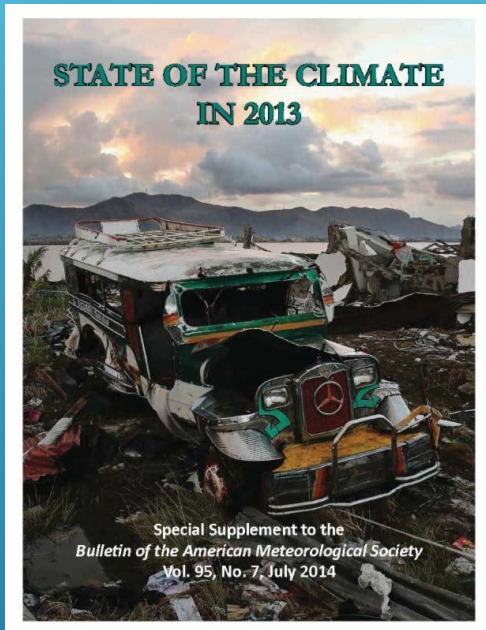
Richard Breckenridge  
101-year-old NY farmer  
84 years as an NWS  
Cooperative Weather  
Observer

## BEST PAPER & POSTER AWARDS

**Dr. Jose Castro**, SWFSC  
Marine Fisheries Review 2013  
Best Paper Award

**George Graettinger & Bill Lehr**, NOS/OR&R  
John I Davidson President's  
Award for Practical Papers  
by the American Society for  
Photogrammetry and  
Remote Sensing

# BAMS STATE OF THE CLIMATE in 2013



## 3<sup>RD</sup> NATIONAL CLIMATE ASSESSMENT

### BREAKING NEWS...

- **New NOAA climate model** shows southwestern Australia's long-term rainfall decline due to human-caused climate change. Model improves regional precipitation predictions more broadly
- **Tropical cyclones** reach maximum intensity closer to the poles
- **First evidence** that **acidity** of continental shelf waters off the West Coast is dissolving the shells of pteropods



# NOAA

America's Environmental Intelligence Agency

*Putting environmental information into  
the hands of people who need it.*



## ENVIRONMENTAL INTELLIGENCE



Observations

Monitoring

Assessment

Modeling

Forecasts and  
Products

## TOP PRIORITIES FOR 2014-2018

1

Make  
communities  
more resilient

2

Evolve the  
Weather  
Service

3

Invest in  
observational  
infrastructure

4

Achieve Organizational Excellence



# Make communities more resilient **HEALTHY OCEANS**

Announced at Capitol Hill Oceans Week



**Sanctuary Nomination Process**

For the first time in two decades, NOAA invites communities across the nation to nominate their most treasured places in our marine and Great Lakes waters for consideration as national marine sanctuaries.

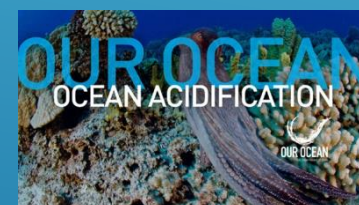
In response to ongoing widespread interest from the public, NOAA has launched a new, locally driven sanctuary nomination process developed with input from more than 18,000 public comments. Throughout the nomination process, NOAA will be available to answer questions and provide guidance to nominating communities and other interested parties. NOAA will also update nominators on the progress of the agency's review of their nomination.

Actor and activist Edward James Olmos lends his voice to the new sanctuary nomination process and offers a challenge to the American people. [Watch in HD](#)

**NOMINATE.NOAA.GOV**

## US STATE DEPT “OUR OCEAN” CONFERENCE

- Expand Pacific marine sanctuaries
- Develop a comprehensive program aimed at combating seafood fraud and the global black-market fish trade





Make communities more resilient

# INTEGRATING ECOSYSTEM-BASED MANAGEMENT AND ECONOMIC VITALITY

## Status of the U.S. Fisheries 2013

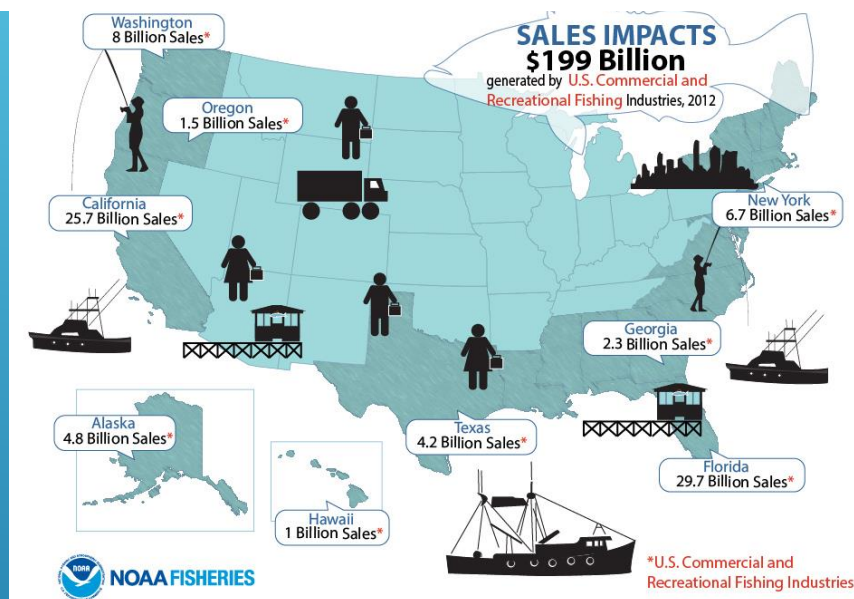
### 2 stocks rebuilt in 2013

- S Atlantic black sea bass
- Sacramento River fall chinook salmon

### Now 34 stocks total rebuilt

Efforts to reauthorize  
Magnuson-Stevens Act under way

## Fisheries Economics of the U.S. 2012

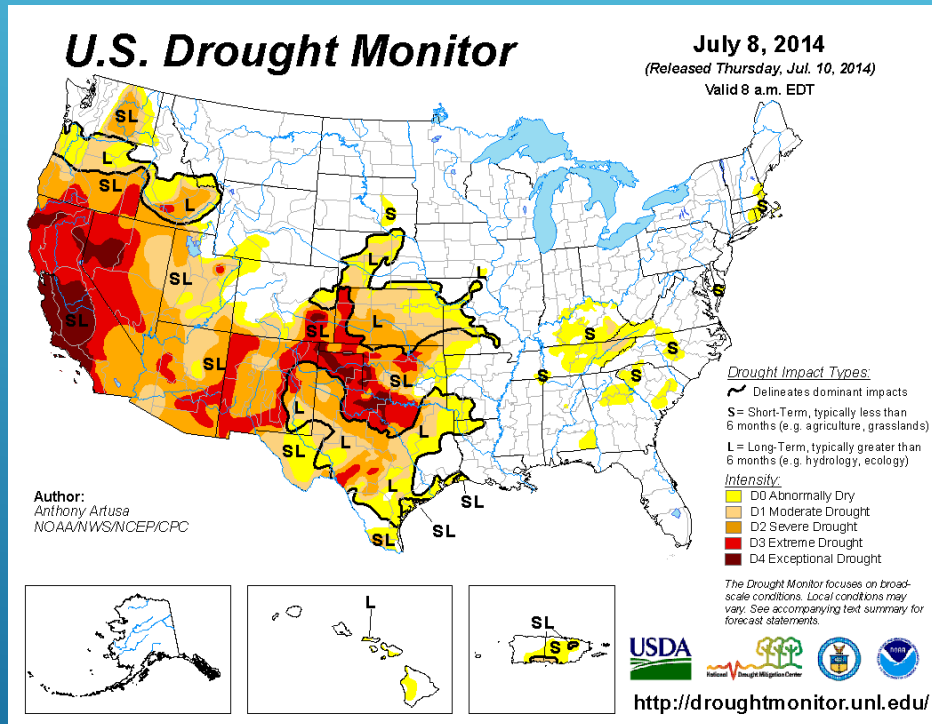


## Science @ the Interface of Climate Change/Stock Assessment

- 1<sup>st</sup> methodology to rapidly assess vulnerability of U.S. marine fish stocks to changes in climate and ocean conditions

Make communities more resilient

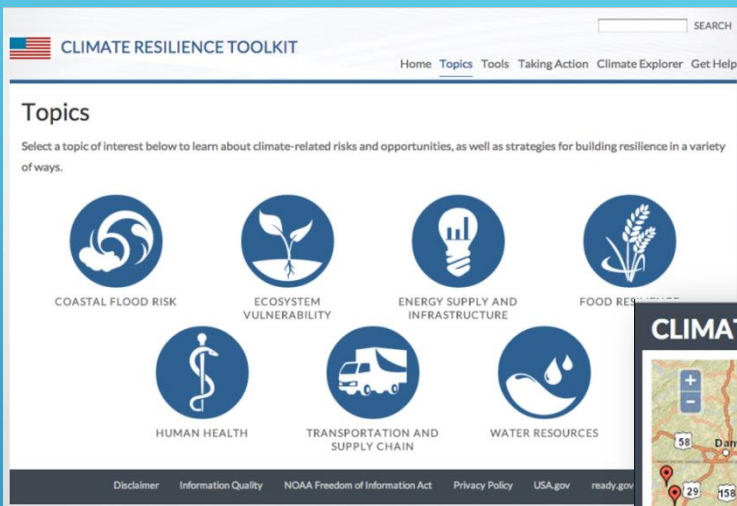
# INTEGRATING OBSERVATIONS & RESEARCH INTO REGIONAL DROUGHT MANAGEMENT



## NOAA-WESTERN GOVERNORS ASSOCIATION MOU

- Coordinate snowpack and soil moisture monitoring in the Missouri River Basin and in the Mountain West
- Improve early warning capabilities for wildfires to facilitate proactive decisions across the states.
- Promote collaboration among researchers, resource managers, businesses and the public

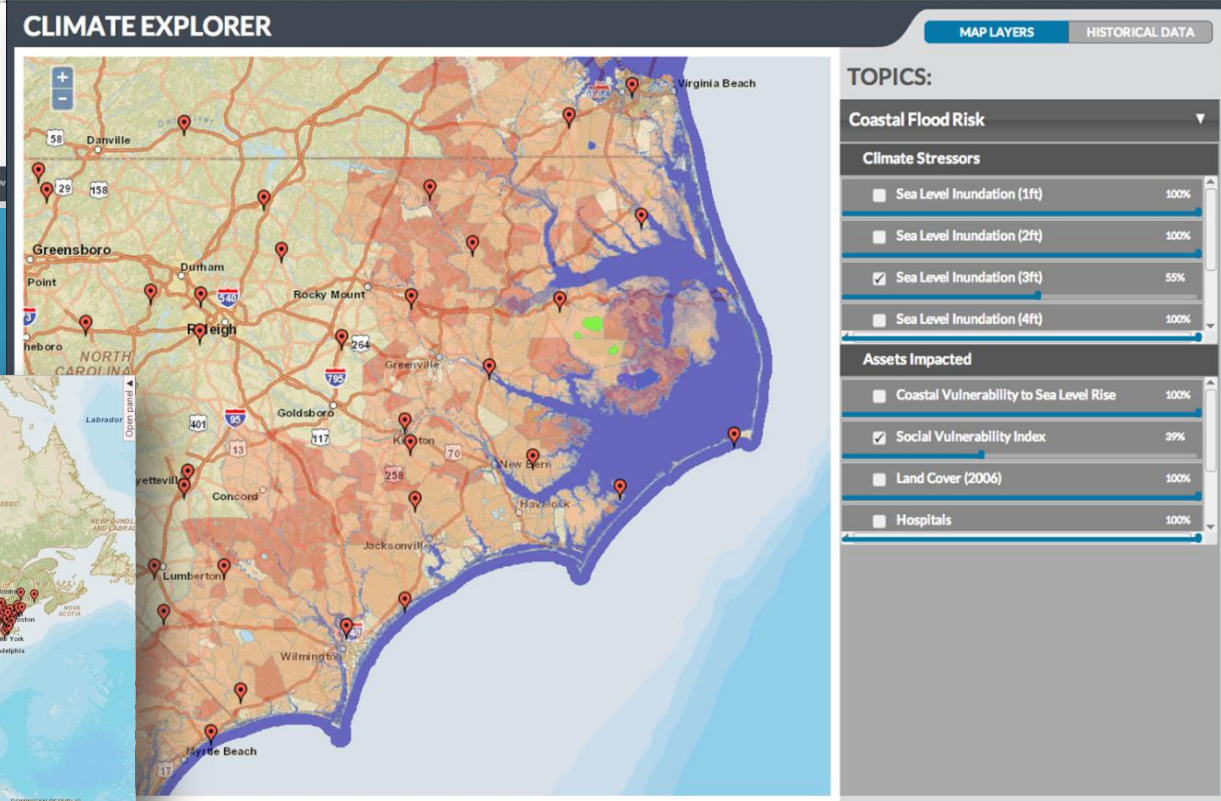
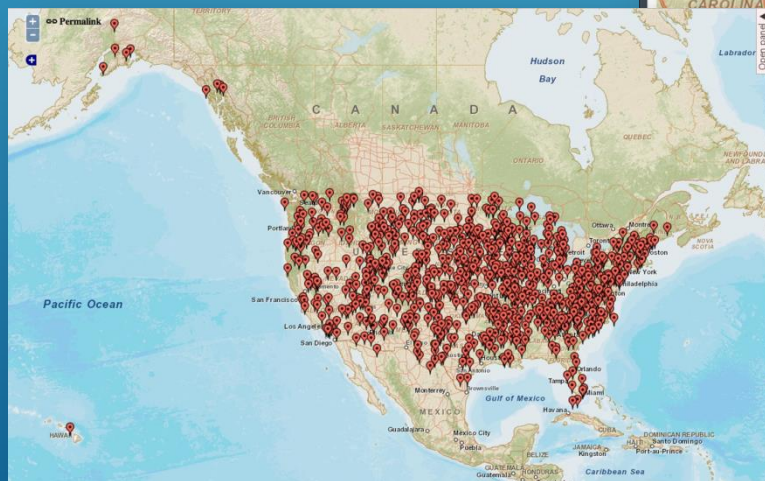
\*\*\* NIDIS Act reauthorized in 2014 \*\*\*



Make communities more resilient

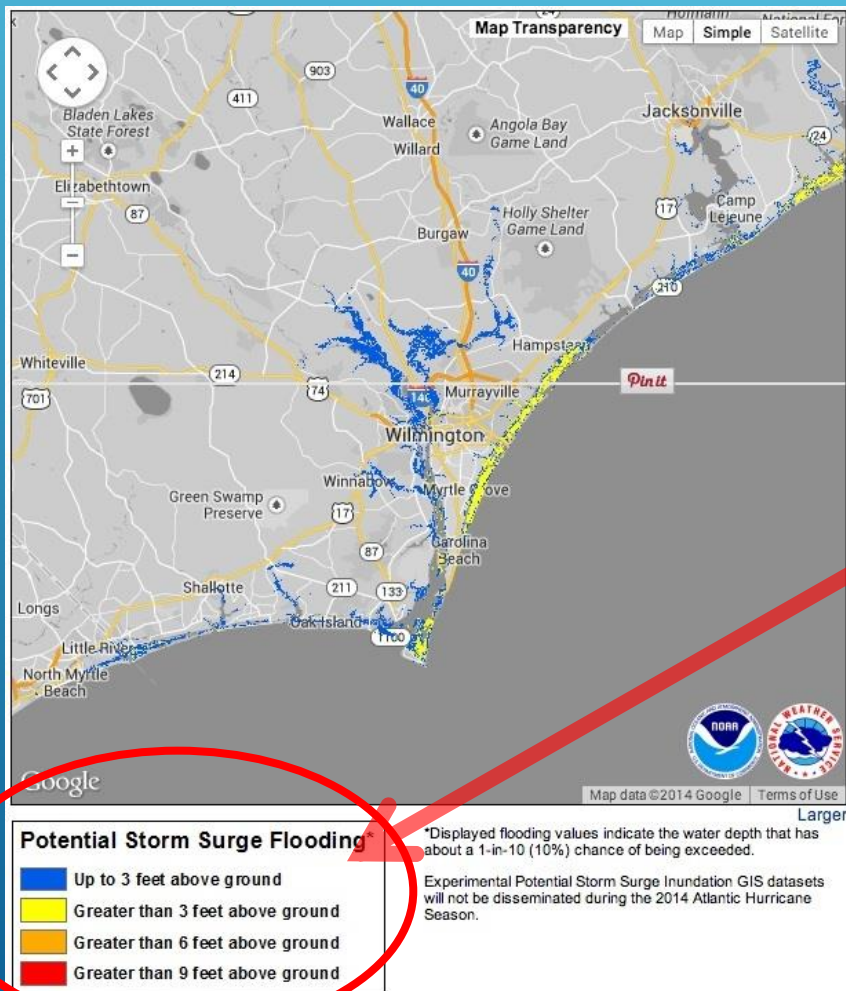
# CLIMATE RESILIENCE TOOLKIT

## Climate Data Explorer





# Evolve the Weather Service **STORM SURGE FLOOD MAPS** Experimental



**2012** NHC Advisory text format completed

**2014** Storm surge inundation graphic (experimental)

- First release – Arthur
- Cross-LO
- Social science & human factors research

**2015** Storm surge watch/warning (experimental)

Potential storm surge flooding map for Wilmington, SC area for Tropical Storm Arthur

# Evolve the Weather Service **NATIONAL WATER CENTER**

Tuscaloosa, Alabama



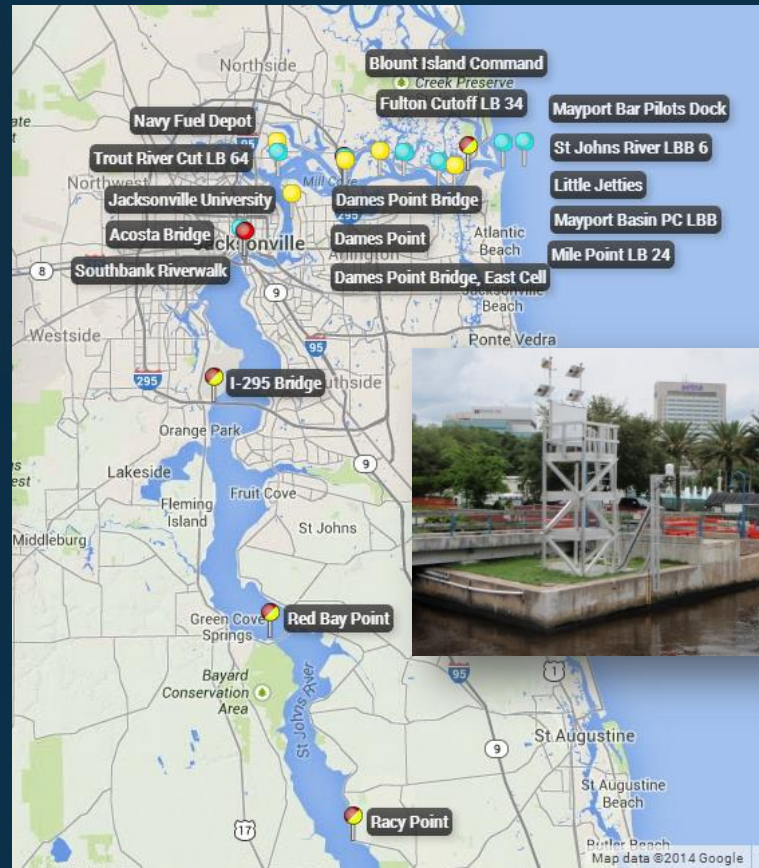
- ▶ A key part of developing a national “common operating picture” among IWRSS partners
- ▶ Integral component of a fully integrated water resources program directed towards consistent products and service from floods to droughts
- ▶ Catalyst for accelerating research to operations
- ▶ Provides the basis for Impact Based Decision Support Services
- ▶ Nerve center for optimization of data-flow among RFCs and IWRSS partners



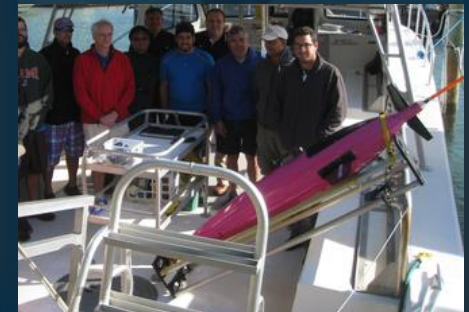


# Invest in OBSERVATIONAL INFRASTRUCTURE

## OPERATIONAL



## EXPERIMENTAL



PORTS Jacksonville, FL  
Multiple services  
Cross-LO collaboration



# BIG DATA RFI

PUBLIC-PRIVATE PARTNERSHIPS TO UNLEASH NOAA DATA



- ▶ **> 70 responses** from industry and academia, individuals & teams
- ▶ **Clear message – GET STARTED!**
- ▶ **Next steps** - work with other agencies to create an ecosystem around data that can lead to lasting impact on the economy

# NOAA

America's Environmental Intelligence Agency

*Putting environmental information into  
the hands of people who need it.*



## ENVIRONMENTAL INTELLIGENCE



Observations

Monitoring

Assessment

Modeling

Forecasts and  
Products

## TOP PRIORITIES FOR 2014-2018

1

Make  
communities  
more resilient

2

Evolve the  
Weather  
Service

3

Invest in  
observational  
Infrastructure

4

Achieve Organizational Excellence

[www.noaa.gov](http://www.noaa.gov)

