





Presentation to the IOOS FAC April 2015



Josie Quintrell IOOS Association





Overview

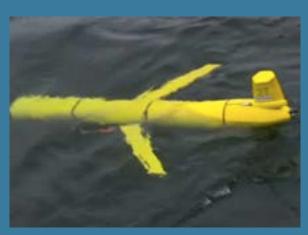
- Update on IOOS Association and Regions
- Advocacy Appropriations and Reauthorization

CERTIFIED

- Resilience Administration priority, IOOS role
- Certification First application submitted, unique in federal government, how can this be used for









IOOS Association: Activities

2014 Annual Meeting – November

Facilitated Strategic Session - Grow the enterprise!

Be realistic but aspirational

4th Meeting of IOOS Organizations

Building IOOS visibility

Inside NOAA

IOOS PO, NOS Roundtable

Outside of NOAA

OMB, DOC, federal agencies

Strategic partners

COL, Earth Alliance, JOCI,

Advocating on behalf of regions

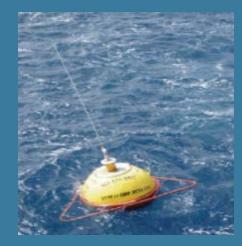
Common voice, RA representation on task teams,

Conduit for communication

New IOOS Association Brochure









Recent Activities



Congressional Briefing: Feb

- Over 75 attendees
- Focus on uses of IOOS



2015 Spring Meetings in Washington DC

"March Madness"

Hill Visits – over 50 offices visited by RAs



Meetings with Appropriations staff authorization Appropriations Letters in House and Senate

Congress of the United States Washington, DC 20515

March 24, 2015

The Honorable John Culberson Chairman House Appropriations Committee Subcommittee on Commerce, Justice, Science, and Related Agencies Washington, D.C. 20515 The Honorable Chaka Fattah Ranking Member House Appropriations Committee Subcommittee on Commerce, Justice, Science, and Related Agencies Washington, D.C. 20515

Dear Chairman Culberson and Ranking Member Fattah:

United States Senate

WASHINGTON, DC 20510

April 1, 2015

The Honorable Richard C. Shelby Chairman Subcommittee on Commerce, Justice, Science, and Related Agencies Senate Committee on Appropriations 125 Hart Senate Office Building Washington, D.C. 20510 The Honorable Barbara A. Mikulski Ranking Member Subcommittee on Commerce, Justice, Science, and Related Agencies Senate Committee on Appropriations 125 Hart Senate Office Building Washington, D.C. 20510



Appropriations

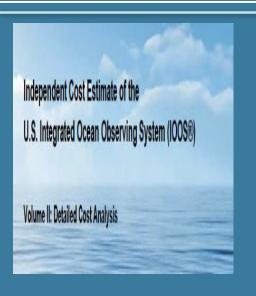


| IOOS Appropriations | FY10 Enacted | FY11 Spend Plan | FY 12 Spend Plan | FY 13 Spend Plan | FY 14 Enacted | FY 15 Enacted | FY 16 Pres Bud | FY 16 IOOS Request |
|--|-----------------|-----------------------|------------------------|------------------------|------------------|------------------|----------------------|--------------------------|
| Regional IOOS | \$27m | \$21.9m | \$23 m | \$26.5m | \$28.5m | \$29.5m | \$29.5m | \$34.5m |
| Total | | | | | | | | |
| Competitive funding for the national network of regional systems, including surface currents | \$20m | \$20m | \$22m | \$23.5m | \$24.3m | \$24.5 m | \$24.5m | \$ 29.5m |
| Marine Sensor Innovation Grants, Modeling Test bed, Sensor Verification | \$7m | \$1.9m | \$1m | \$3m | \$4.2m | \$5 m | \$5 m | \$5m |
| U.S. IOOS Program Office* | \$6.5m | \$6.5m | \$6.4m | \$5.9m | \$6.6m | \$6.6m | \$6.5m | \$6.6m |
| Total U.S. IOOS | \$33.5m | \$28.4m | \$29.4m | \$32.4m | \$35.1m | \$ 36.1m | \$36 m | \$41.1 m |

President's Budget -NOS budget increased for resilience - but <u>core observation programs</u> <u>level funded</u>



The Need: \$54 b over 15 years



Independent Cost Estimate

\$54 b over 15 years

- \$45 b Federal (including satellites)
- \$8 b Non-Federal (530m/yr)
- \$.98 Central Functions

Based on IOOS Blueprint & Regional Build Out Plans





- * HFR 137 to 150
- * Resilience expand base observations (water level, wave), hi-res dynamic modeling
- * National data management interagency integration, national products







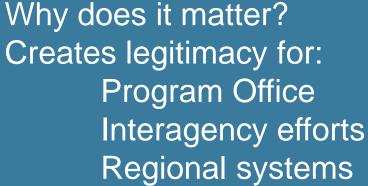
ICOOS Act Reauthorization





Establishes an Interagency Ocean Observing Committee (IOOC);

- Identifies NOAA as lead federal agency and calls for a Program Office within NOAA's National Ocean Service;
- Creates standards and protocols for the integration and sharing of coastal data across federal agencies and with non-federal partners;
- Sets certification standards for the regional;
- <u>Defines observing systems</u> to include the full suite of operations necessary to transform observations into meaningful information
- Creates a Federal Advisory Committee; and
- Extends of federal torte liability coverage to certified regional partners.



Time to Act is Now: Next year is the Presidential election



House Reauthorization



Rep Young - Lead



Rep Sablan – Lead co-sponsor

House Natural Resources Committee

- New subcommittee: Water, Power and Oceans
- Focus on California drought, fisheries

Majority Water Power and Oceans

Fleming R LA McClintock R CA Byrne R AL Macarthur R NJ
Young R AK Duncan R SC Denham R CA
Wittman R VA La Malfa R CA Newhouse R WA

Need Republican co-sponsors

- Jolly R- FL, Posey (R-FL), Buchanan (R-FL), Clawsom R-FL)
- Poliguin R-ME, Rohrabacher (r-CA), Duncan (R-CA), Graves (R-LA) Palazzo (R-MS)
- Frelinghuysen (R-NJ), LoBiondo (R-NJ) Duncan (R-SC)

Rep Young –Circulating Dear Colleague NEXT WEEK Committee – NEED bipartisan co-sponsors



Senate Reauthorization

Republicans Supporters:

Wicker (R-MS) is lead Collins (R-ME) Mikowski (R-AK)

Sullivan (R-AK)

Hopefuls

Johnson (R-WI)

Kirk (R-IL)

Ayotte (R-NH)

Burr (R-NC)

Rubio (R-FL)

Likely

Shelby (R-AL) Cochran (R-MS) Graham (R-SC)

Democrats

Blumenthal (D-CT) Booker (D-NJ)

Boxer (D-CA)

Cantwell (D-WA)

Carper (D-DE)

Coons (D-DE)

Feinstein (D-CA)

Franklin (D-MN)

Kolbuchar (D-MN)

Hironon (D-HI)

Nelson (D-FL)

Markey (D-MA)

Murphy (D-CT)

Murray (D-WA)

Reed (D-RI)

Shaheen (D-NH)

Schatz (D-HI)

Stabenow (D-MI)

Warren (D-MA)

Whitehouse (D-RI)



Sen Wicker- Lead



Sen Cantwell - Co-Lead

Oceans, Atmosphere, Fisheries and Coast Guard

Subcommittee

Rubio – Chair

Wicker (MS)

Ayotte (NH)

Cruz (TX)

Sullivan (AK)

Johnson (WI)

Booker, RM

Cantwell (WA)

Blumenthal (CT)

Schatz (HI)

Peters (MI)

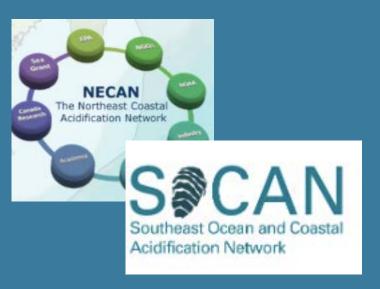




Certification

Congratulations to PaclOOS: First to submit!







A certified is an opportunity for all IOOS agencies -

RAs are "ecumenical" at the regional level Convene fed, tribal, state agencies, research,

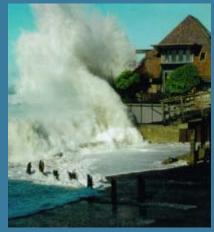
- Integration of regional data IOOC agencies should foster
 Reduce duplication of efforts
 Enhance users ability to access data
- Regional forum e.g., Ecological Forecasting webinars, ocean acidification (NECAN, SE

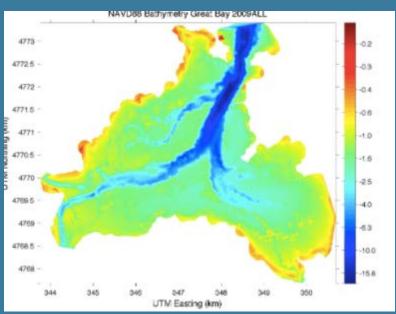


IOOS Resilience: Need for Basic Observations







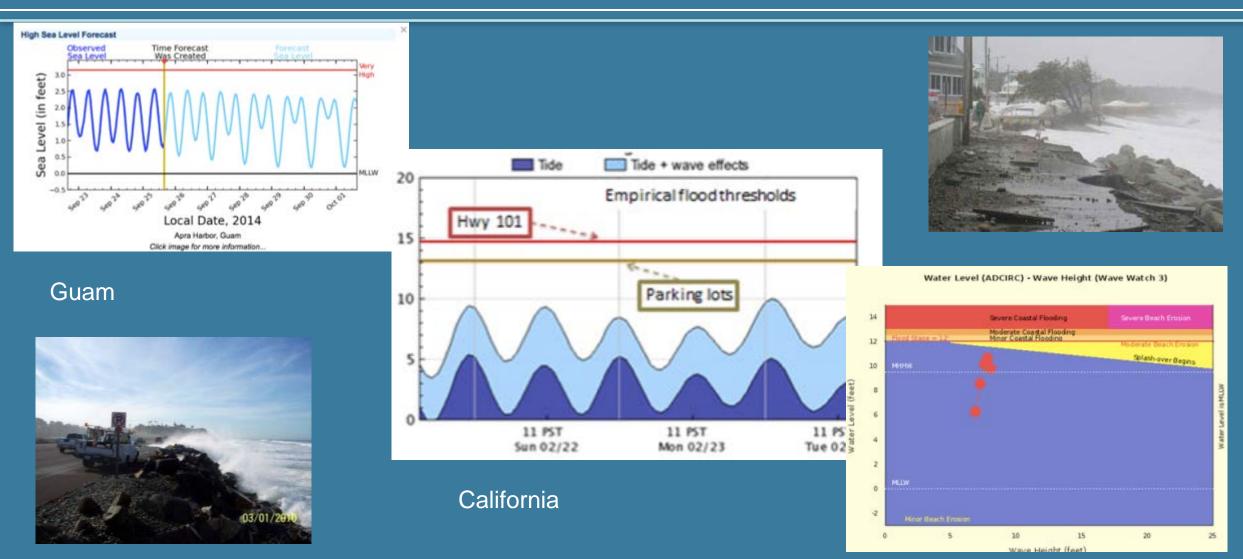








IOOS Resilience Tools







Resilience



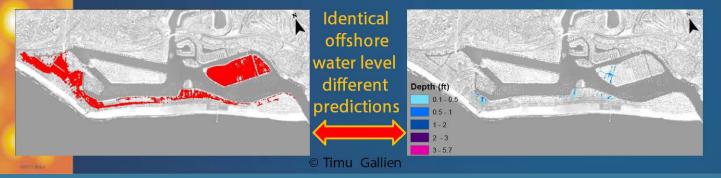
Bathtub ('static') vs. Hydrodynamic

Bathtub

- Output = topographic vulnerability
- Instantaneous fill
- Flood defenses not resolved
- Overprediction

Hydrodynamic

- Output = areal extent, depth, velocity
- Temporal variability
- Walls, berms, drains, etc. may be resolved
- Accurate prediction



Coastal Ocean

Modeling Testbed

Linking research to operations

Delivering benefits – SLOSH improvements



Making a Difference: Ask the Users

"We decide which boat we can take out for missions and what type of survival equipment we can wear" – US Coast Guard

"Go/no go decisions for moving large commercial ships and tug/barge combinations in Penobscot Bay" – Harbor Pilot

"To decide when to go to sea and how long we might be able to stay, as well as what areas might be best to go. Its not just for fishing info but safety too. I also use it to verify the forecast to see if weather maybe unexpectedly changing." – Commercial Fishermen

Going across the bar [near the SF Bay] can be scary with long period wave series. Buoy data are very important to our safety. I have incredible gratitude for the scientific community doing this research and making it so usable - Fishermen

"I use this data to discuss data with my middle school students. When there are big storms or other major events we look at the data and make our own predictions." – Educator

"Developing water quality assessments, understanding the effects of climate change, looking at extreme event effects" – Environmental Manager

"[The OOSes are] the first place where a lot of sanctuary staff look for information."- Sanctuary manager

"I am impressed by the amount and ease of use of data. I couldn't believe how fast someone got back to me." Abalone Farmer



Thank you









