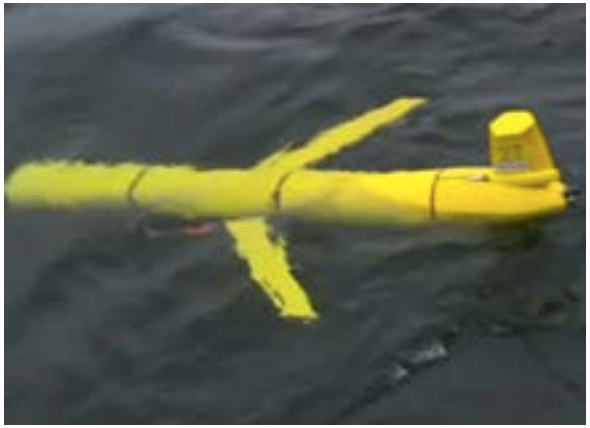


IOOS: The Regional Perspective

Josie Quintrell

October 2014

IOOS ASSOCIATION

INTEGRATED OCEAN OBSERVING SYSTEM

IOOS

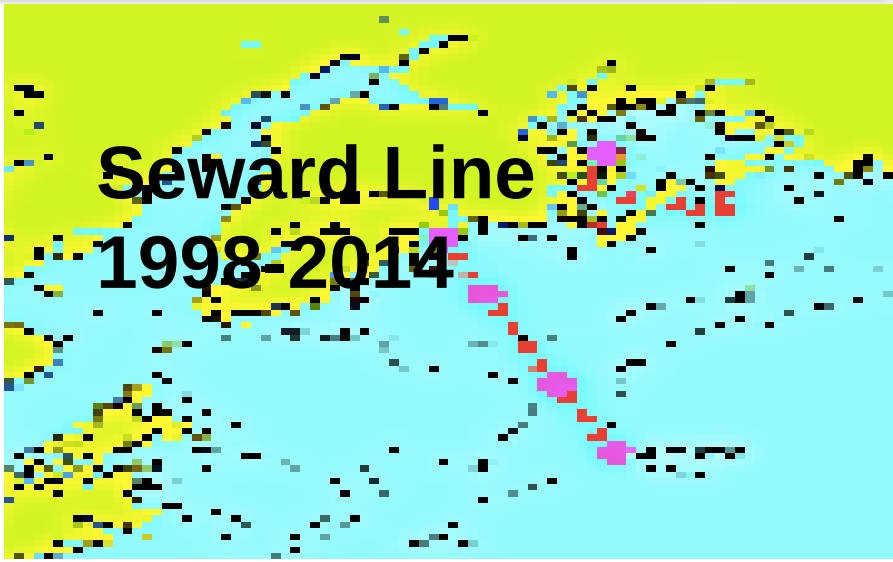
IOOS Association

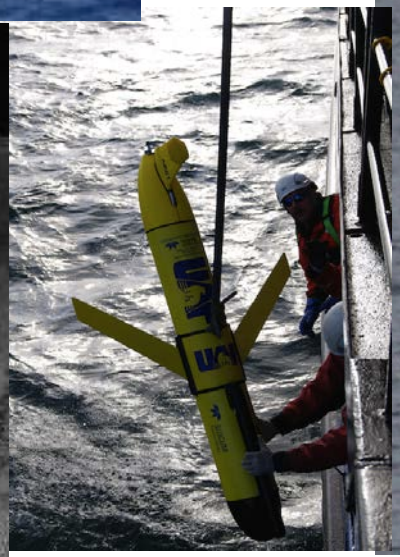
- Non Profit Association
- 4 Objectives
  - Advocacy For IOOS
    - Funding
    - Legislation
  - Common Issues
    - e.g., modeling
  - Represent Regions in DC
    - Administration (OMB, NOAA, etc)
    - Hill
    - Partners
  - Emerging Issues

A Quick Tour


IOOS
INTEGRATED OCEAN OBSERVING SYSTEM
AOOS
Alaska Ocean Observing System
NANOOS
CeNCOOS
SOUTHERN CALIFORNIA COASTAL OCEAN OBSERVING SYSTEM
PacIOOS
Pacific Islands Ocean Observing System
GULF OF MEXICO COASTAL OCEAN OBSERVING SYSTEM
GCOOS
CaRA
SECOORA
Southeast Coastal Ocean Observing Regional Association
GLOS
NERACOOS
MARACOOS
Ocean Information for a Changing World
AOOS
(Alaska IOOS)
NERACOOS
(Northeast IOOS)
MARACOOS
(Mid-Atlantic IOOS)
SECOORA
(Southeast IOOS)
SCCOOS
(Southern California IOOS)
(Pacific IOOS)
GCOOS
(Gulf of Mexico IOOS)
CariCOOS

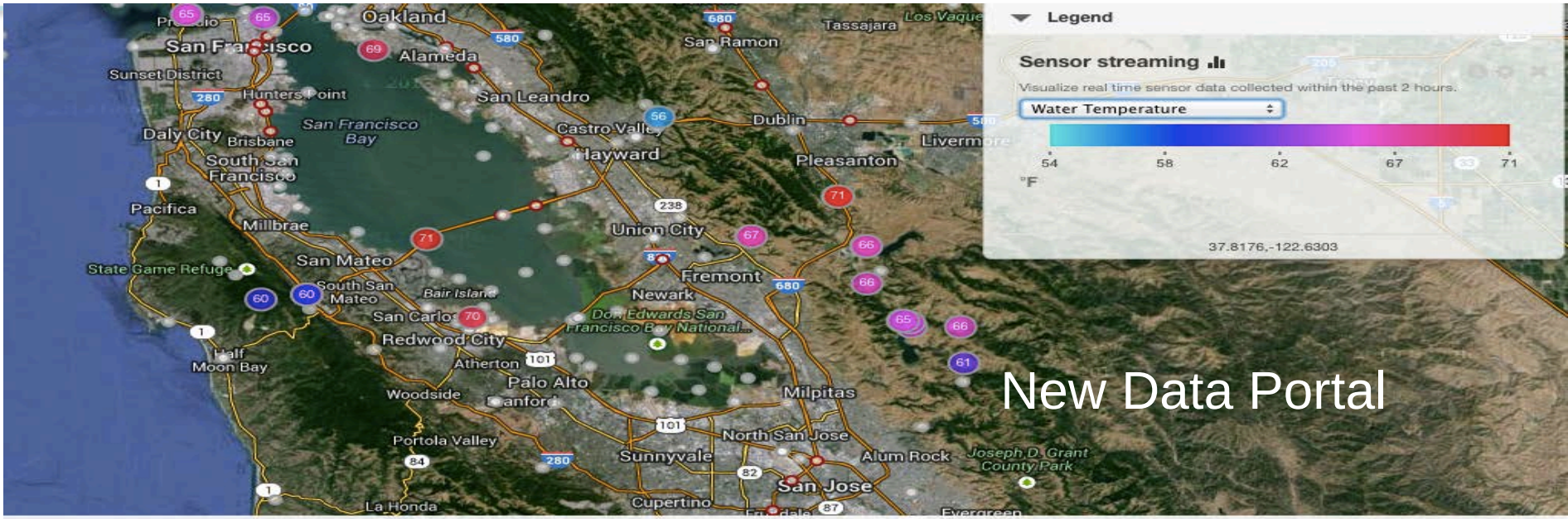
AOOS: IOOS in Alaska





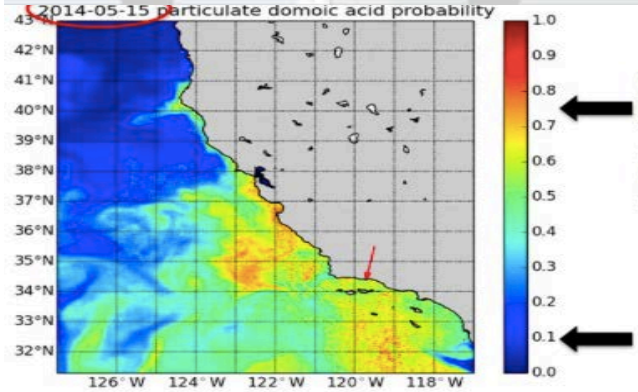
CaRA: IOOS in the Caribbean

CeNCOOS: IOOS in California



New Data Portal

HAB Forecasts

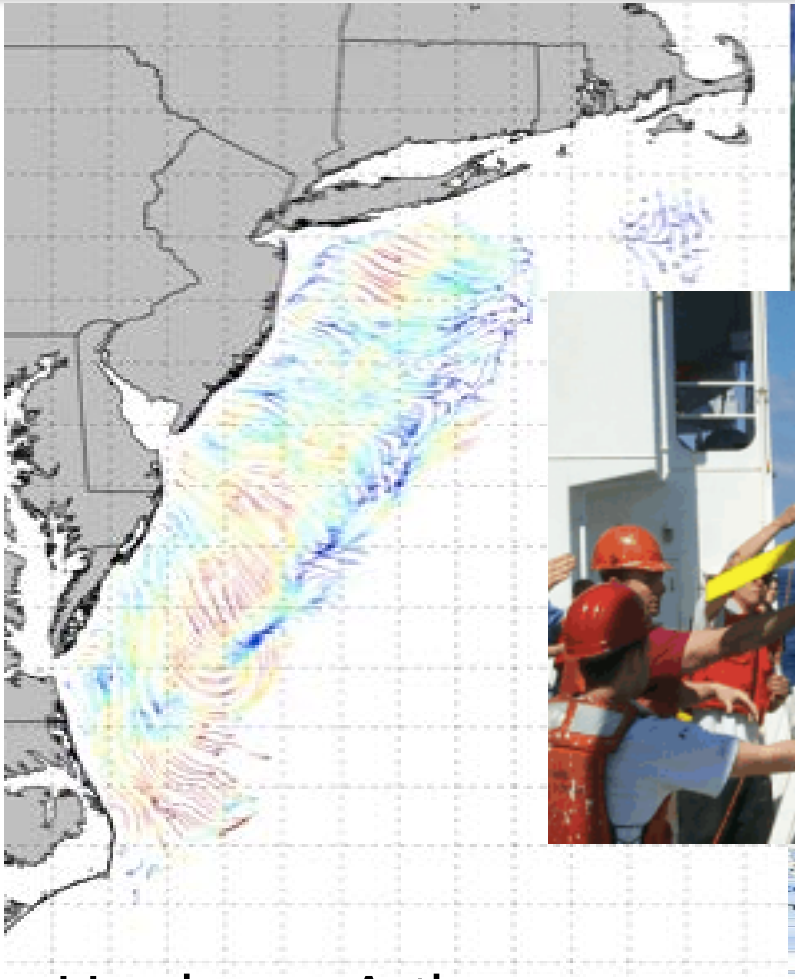


Orange pixels in the image fall in the range of 0.7 to 0.8. This means that there is a 70-80% chance of finding high domoic acid (> 500 nanograms per liter) at those locations.

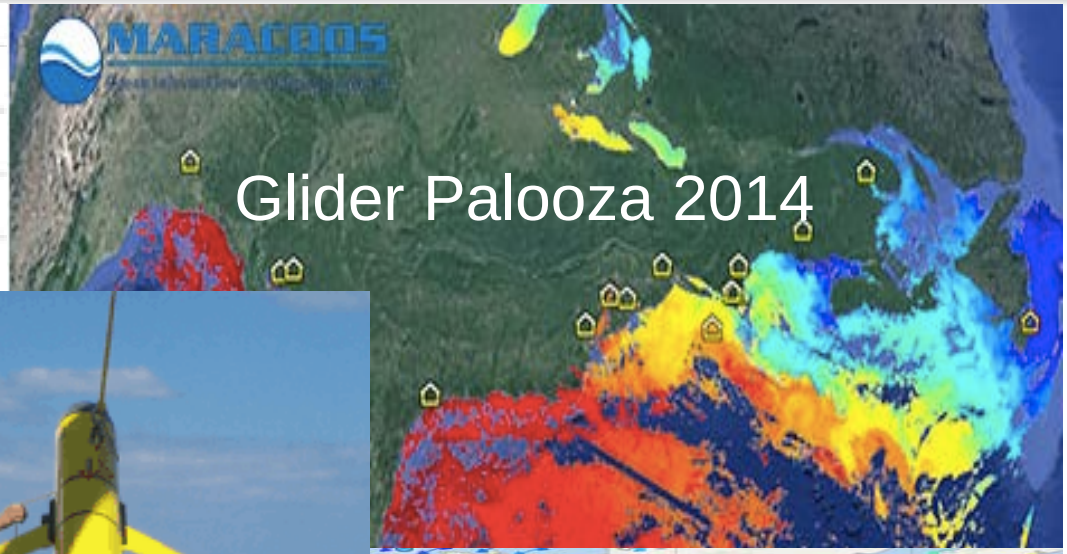
Pixels with dark blue coloring indicate ~10% chance of high domoic acid at those locations.

GCOOS: IOOS in the Gulf

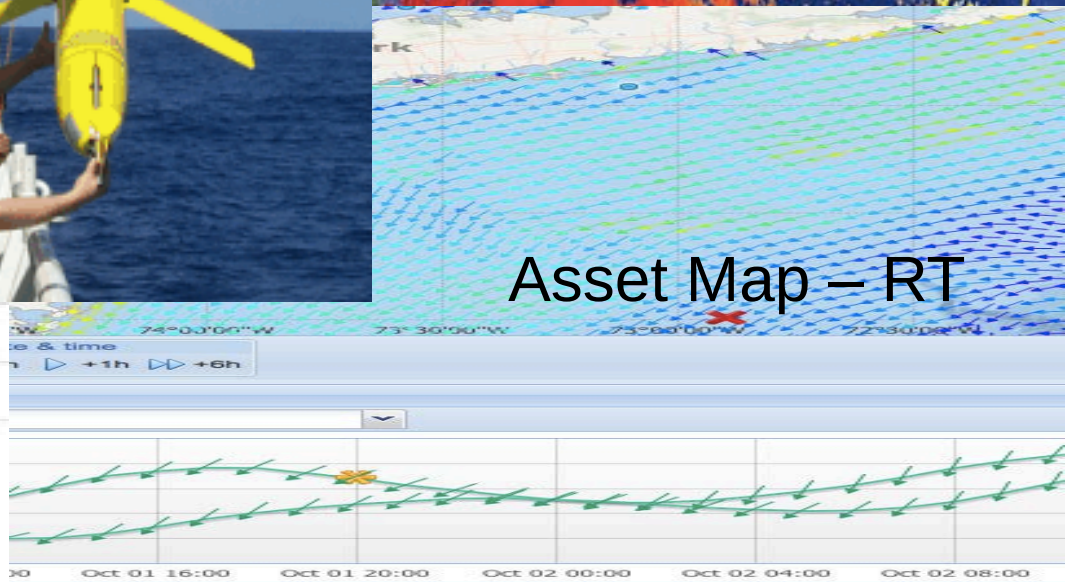
MARACOOS: IOOS in the Mid Atlantic



Hurricane Arthur - HFR

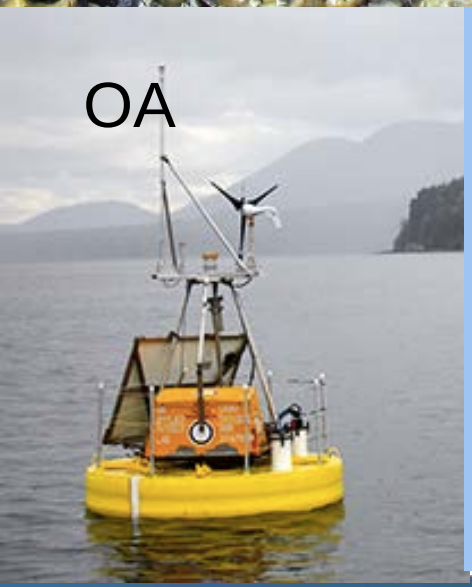


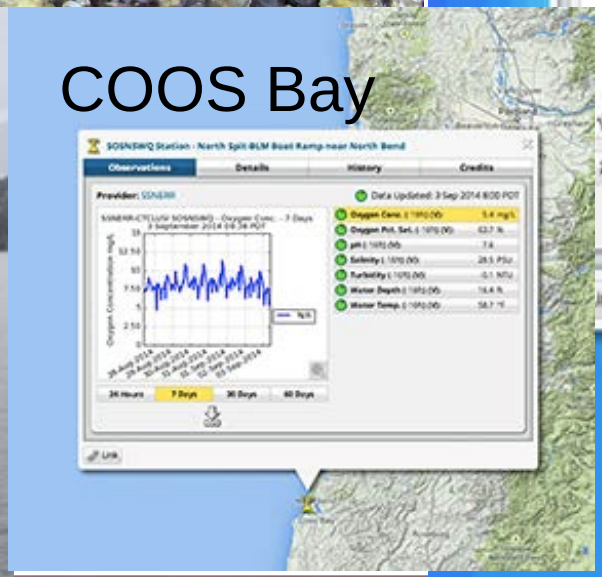
Glider Palooza 2014

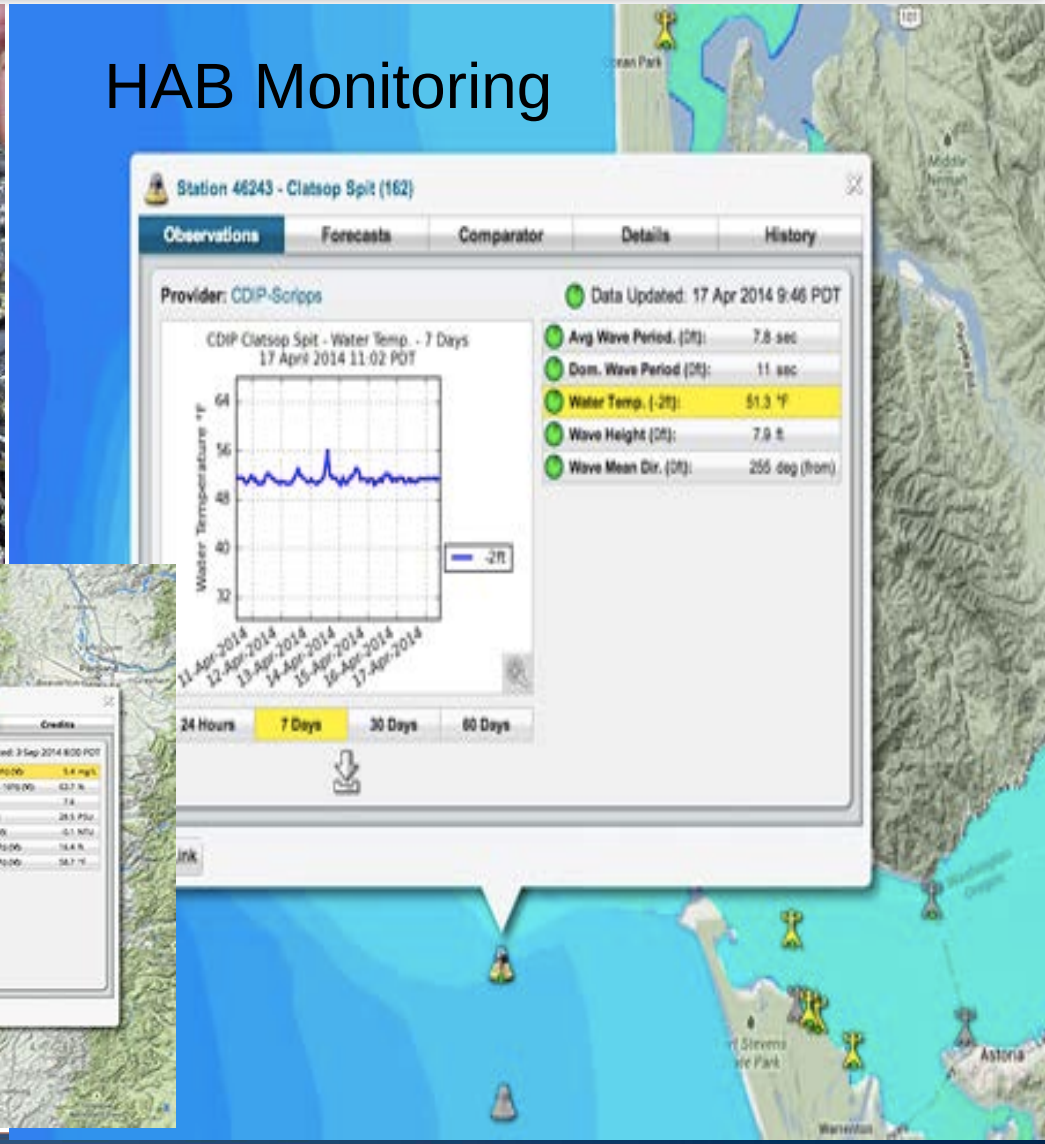


Asset Map – RT

NANOOS: IOOS in the NW







NERACOOS: IOOS in the NE

Bob Thompson from the Taunton, Massachusetts office noted that "the IOOS buoy data were invaluable for Sandy."

PacIOOS In the News

Between Aug 2013-Sept 2014:
45 news articles
8 TV spots

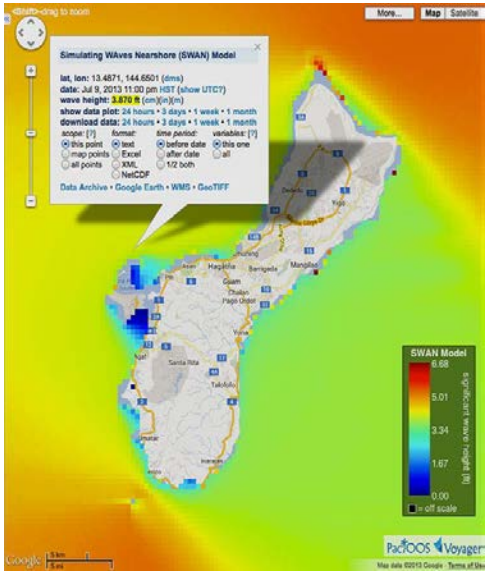
PacIOOS Tiger Shark Tracking

Honolulu Star Advertiser; KITV4; Hawai'i News Now; Hawai'i Reporter; Maui Now; KHON2; University of Hawai'i at Mānoa The Maui News; The Seattle Times; Los Angeles Times; Huffington Post
NOAA National Ocean Service Weekly Letter

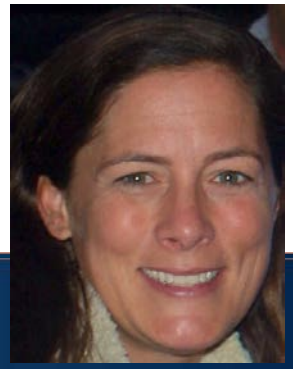
PacIOOS Wave Buoys in Saipan and Kauai

Saipan Tribune; Marianas Variety; Honolulu Star Advertiser; University of Hawai'i at Mānoa

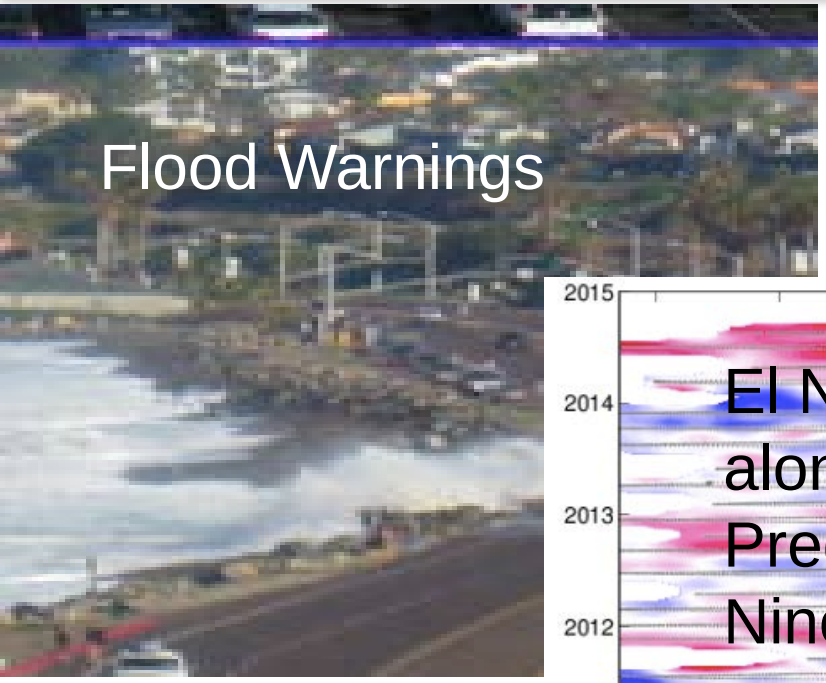
High-Resolution Wave Forecasts in Guam and CNMI

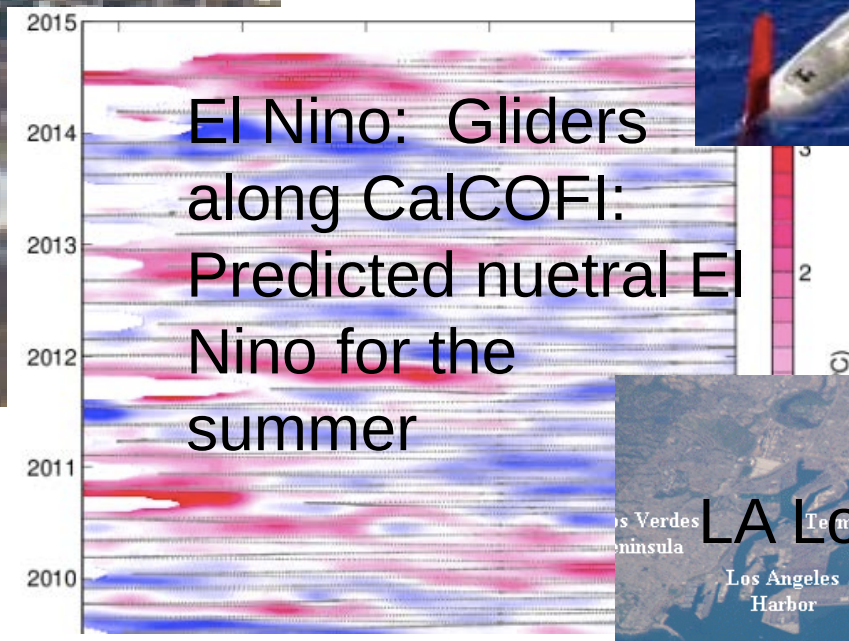


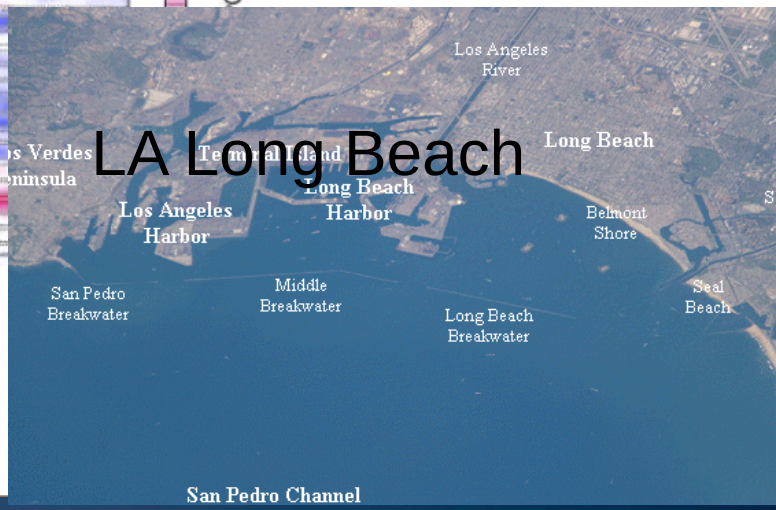
Asian American Press; Saipan Tribune; University of Hawai'i at Mānoa



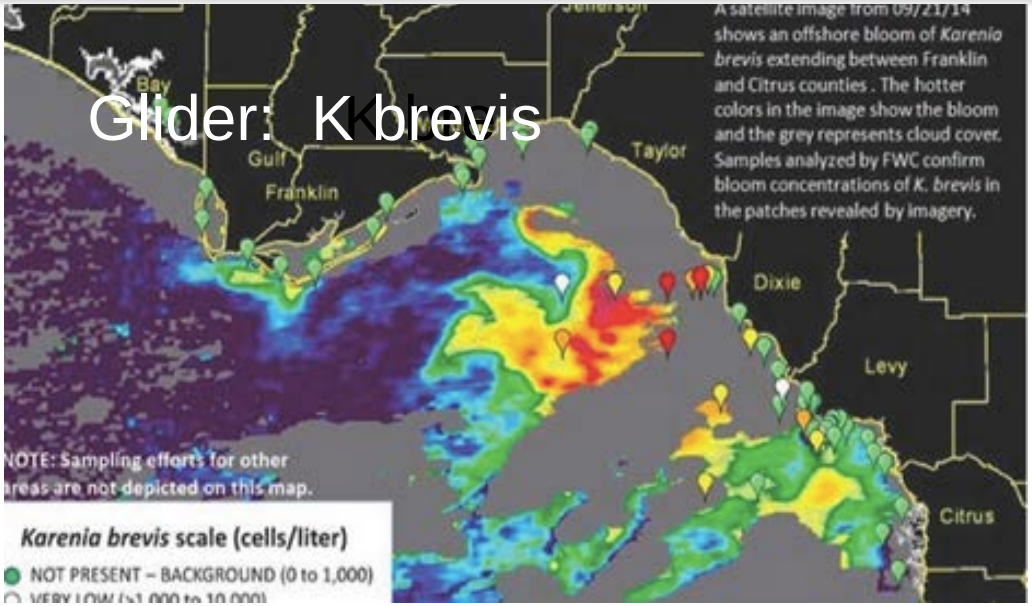
SCCOOS: IOOS in Southern California

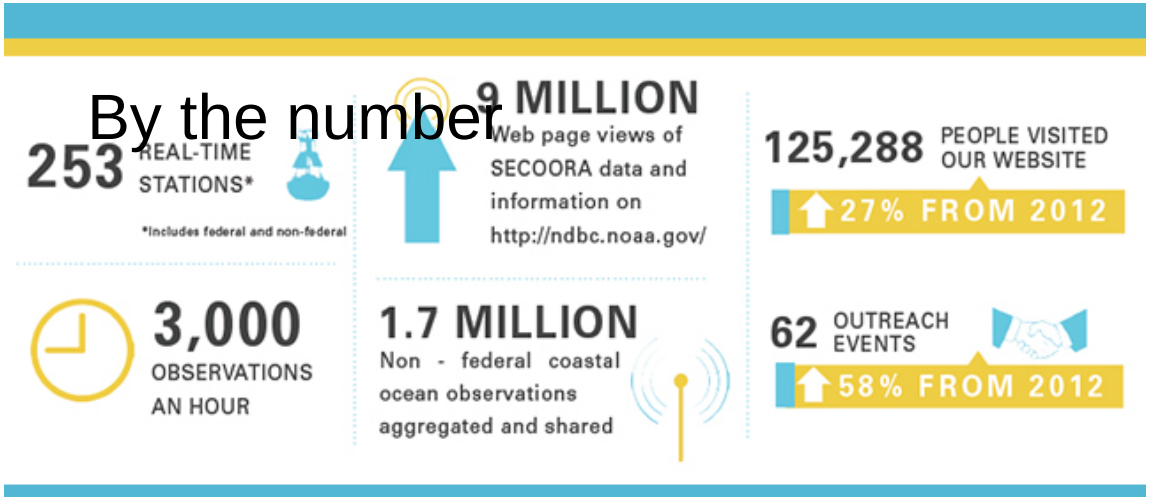


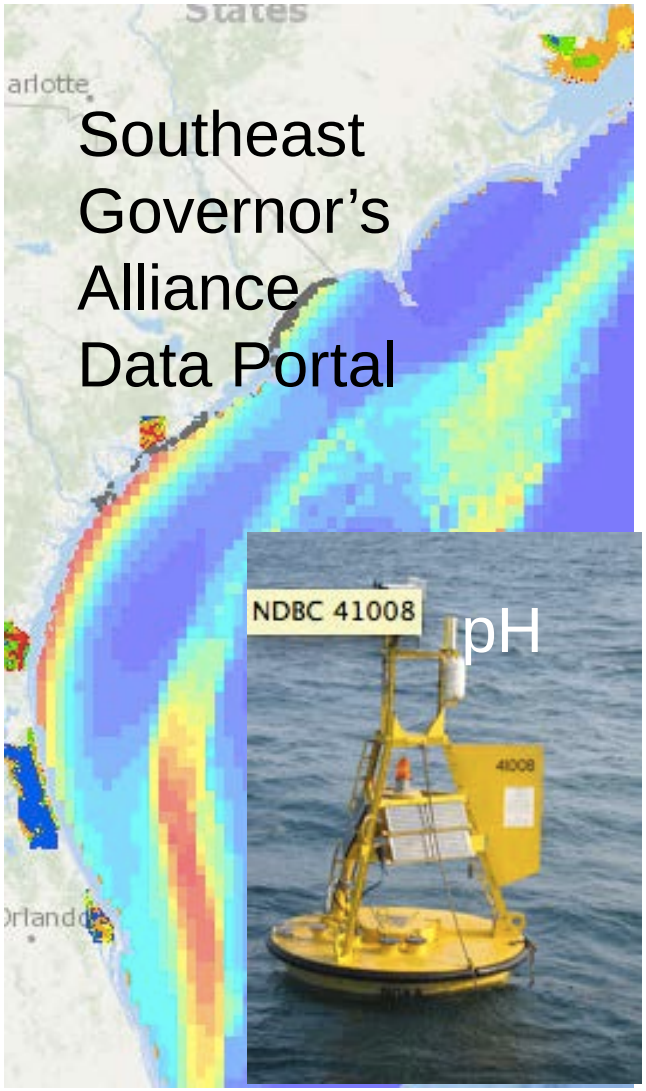




SECOORA: IOOS in the SE







Making a Difference

“We decide which boat we can take out for missions and what type of survival equipment we can wear” – USCG

“go/no go decisions for moving large commercial ships and tug/barge combinations in Penobscot Bay” – 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.”-

“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

RA Director's Retreat: Aug 2014

First ever Director's Retreat

Scott Rayder,
UCAR /NCAR
Similar challenges

RA Management
11 approaches

Diversification of funding
No magic bullet

Messaging IOOS
IOOS by the number
Quantifying Appropriations Request

Certification: Moving forward
FFO: Next 5 year cycle

IOOS Association: Upcoming

- Initiating Strategic Planning
  - 5 year goals – coincides with FFO
  - New approach (e.g., membership, location, etc)
- Messaging – IOOS by the number, brochure
- Annual Mtg:
  - 4th annual discussion with IOOS Organizations
- Congressional outreach
  - November elections

ICOOS Act Reauthorization

House:

HR 2219, Introduced by Rep Young

Authorization amount :$29 m

Current Approp: $ 35 m

ICE: $534m/year for region; $65m for Central

Senate: Senator Cantwell, lead. Looking for R sponsor
May introduce after election

Message:

- Core data
- Innovative approach to governing - distributed system

IOOS Appropriations

IOOS Appropriations	FY 09	FY10	FY11	FY 12	FY 13	FY 14	FY 15 Pres	FY 15 Senate	FY 15 House	FY 16
Regional IOOS Total	**$21m**	**$27m**	**$21.9m**	**$23 m**	**$28.5m**	**$28.5**	**$29.5 m**	**$29.5 m**	**$29.5 m**	**34.5 m**
Competitive funding for the national network of regional systems, including surface currents	*$19m*	*$20m*	*$20m*	*$22m*	*$23m*	*$24.5m*	*$24 m*		*$24m*	*29m*
Marine Sensor Innovation Grants, Modeling Test bed, Sensor Verification	*$1.25 m*	*$7m*	*$1.9m*	*$1m*	*$3m*	*$4.5*	*$4.5m*		*$5.5m*	*5.5m*
U.S. IOOS Program Office	**$6.5 m**	**$6.5m**	**$6.5m**	**$6.4m**	**$6.4m**	**$6.5m**	**$6.5m**			**7m**
Total U.S. IOOS	$27.5 m	$33.5 m	$28.4m	$29.4m	$34.9m	$35.0m	$ 36m	CR to Dec 11	CR to Dec 11	$41.5

Thoughts for FAC

- **Successes, but critical gaps remain**
- **Building IOOS visibility in NOAA**
  - Program Office, Connections with NOAA Regional efforts, etc, building IOOS and the regions (e.g., FFO requirements to support DMAC, etc)
- **Interagency Engagement**
  - 17 IOOC agencies
- **Certification**
  - Making certification meaningful
- **Putting the "I" back into IOOS**
  - Integrating technical plans
- **IOOS strategic advantages**
  - Envisioned as $10m/year; reality is ~ $2m/year

Thank you