

# August 2018 Newsletter

SOUTHERN CALIFORNIA COASTAL OCEAN OBSERVING SYSTEM: A Science-Based Decision Support System

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## NOS All-Hands Meeting

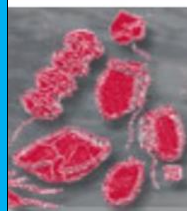
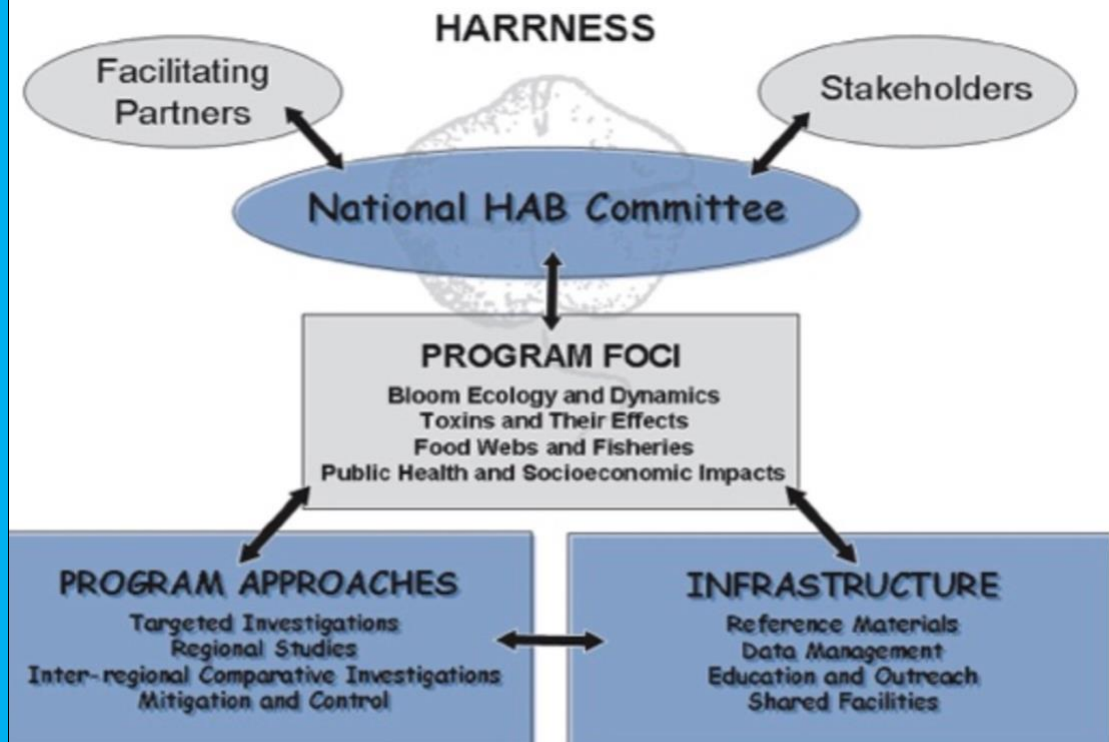
**Clarissa Anderson, SCCOOS Director, spoke at the NOS All-Hands Meeting in June.**

This was an opportunity to describe a "day in the life" of an ocean observing system through the eyes of one regional director. Clarissa highlighted some of SCCOOS' flagship observations and products, such as the [spray glider SoCal Index](#), [High Frequency Radar](#) data and oil spill response, the [Under-Keel Clearance Project](#), [Flooding and Inundation Tool](#), and the [CA HAB Bulletin](#).

## Clarissa Anderson elected to National HAB Committee

**Clarissa Anderson has been elected to the [National HAB Committee \(NHC\)](#) for a three-year term beginning July 2018.**

The mission of the NHC is to facilitate coordination and communication of activities for the U.S. HAB community at a national level.



NATIONAL HAB COMMITTEE

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## Senate Oceans Caucus Blue Economy Briefing

**RDML Tim Gallaudet (Assistant Secretary of Commerce for Oceans and Atmosphere, National Oceanic and Atmospheric Administration) moderated a panel to hear from experts on how ocean data benefits different sectors of the Blue Economy.**

Panelists included Joy Baker ([Port of Nome](#)), Dr. Ruth Mullins-Perry ([Shell Exploration and Production Company](#)), Zack Klyver ([Bar Harbor Whale Watch](#)), and Leigh Habegger ([Seafood Harvesters of America](#)).



*Left to right: RDML Tim Gallaudet (NOAA), Joy Baker (Port of Nome), Dr. Ruth Mullins-Perry (Shell), Leigh Habegger (Seafood Harvesters of America), Zack Klyver (Bar Harbor Whale Watch)*

*Photo credit: [Consortium of Ocean Leadership](#).*

SCCOOS high frequency radar tower and spray glider and a [Coastal Data Information Program](#) (CDIP) wave buoy were on display as examples of technology that collects critical ocean data.





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## NASA Earth Observations to Value Ecosystem Services

**Clarissa Anderson** was at the Institute on the Environment at the University of Minnesota - St. Paul to attend the third and final workshop in a series hosted by the Natural Capital Project.

A team of scientists whose work is focused on modeling and estimating ecosystem service provisions in terrestrial ecology, conservation biology, hydrology, aquatic ecology, and economics met to produce two papers for peer-review and create recommendations to NASA on how best to incorporate Earth Observations into ecosystem service models and valuations. Clarissa and colleague, Frank Muller-Karger, from the University of South Florida brought their expertise in oceanography and ocean observing to bear on the workshop deliverables. They are eager to see the global communities of ocean observing, biodiversity science, and ecosystem services intersect in a productive manner.



## Strengthening Coasts for a Resilient Future

**July 18th – 19th** Clarissa Anderson and James Behrens, CDIP Principal Engineer, attended the [Strengthening Coasts for a Resilient Future](#) at UCI

Elected and appointed officials from coastal city governments are on the front lines of sea level rise adaptation planning and decision making. Competing interests and the wide range of forecast scenarios make this especially challenging, and planners are looking for more and better monitoring and forecast tools. In this regard, an opportunity was identified for [Coastal Data Information Program \(CDIP\)](#) wave model coastal inundation forecast to be expanded to locations in Northern California.

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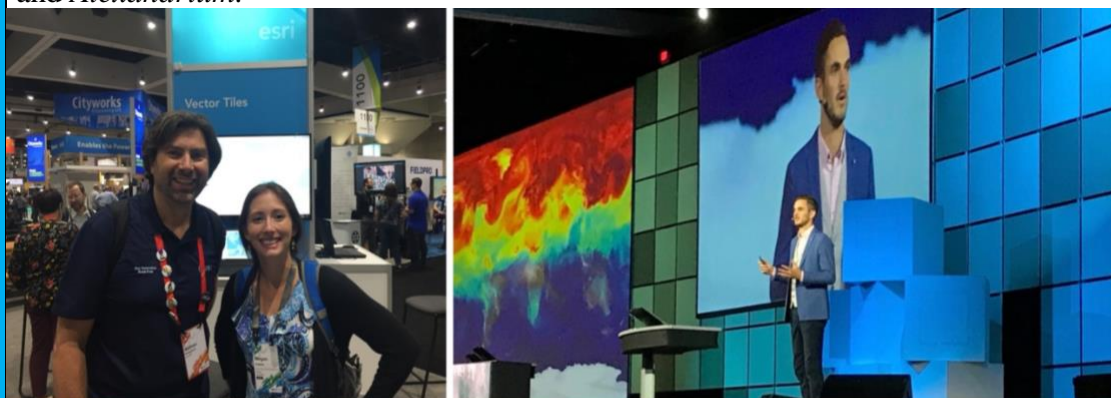
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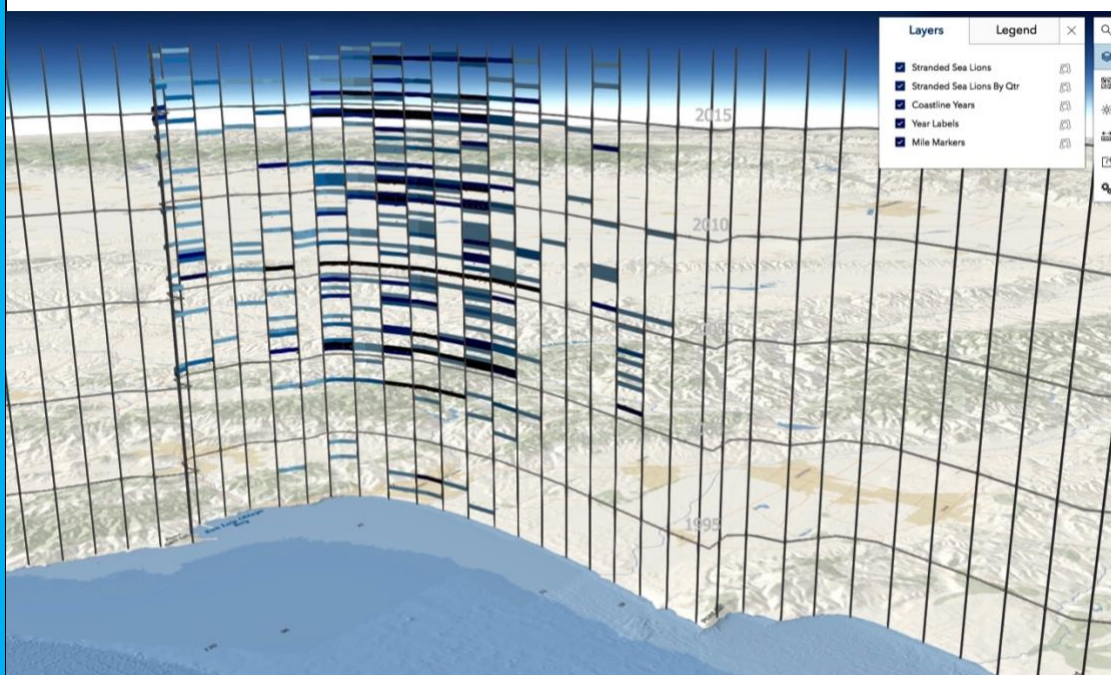
## UC ESRI User Conference

Megan Hepner, SCCOOS Program Coordinator, attended the [UC ESRI User Conference](#) July 9th – 11th to learn about advanced GIS technology (e.g., 3D mapping) and hone her story map skills as well as participate in focused ocean sessions and special interest groups.

Megan has since collaborated with Nathan Shephard from [ESRI](#) to develop a draft [3D-interactive map](#) that captures spatial and temporal variations of sea lion stranding's along California's coast using data collected by [The Marine Mammal Center](#) (TMMC). Megan also recently developed an interactive time series [dygraph](#). We hope to plot similar temporal and spatial bird stranding data and *Pseudo-nitzschia* and *Alexandrium*.



Left: Nathan Shephard (ESRI) and Megan Hepner (SCCOOS) Right: Thomas Crowther (The Crowther Lab at ETH Zürich).



Screenshot of 3D interactive map of sea lion stranding data at San Luis Obispo Bay The Marine Mammal Center. Horizontal lines are mile markers and vertical lines are five-year increments from 1991 to 2018.



## Upcoming Activities

September 18-19:  
IOOS Fall  
Meeting

September 20:  
Directors  
Meeting

## Save the Date!

**SCCOOS – CeNCOOS – NANOOS Biological Observation Workshop**  
November 7-9, 2018 Santa Cruz, CA. [Register](#) for Free.

**--- SAVE THE DATE ---**

## **NANOOS-CeNCOOS-SCCOOS ATN-MBON-OTN Biological Observations Workshop**

Identifying U.S. West Coast  
stakeholder needs and observation  
priorities for animal telemetry and  
marine biodiversity observations

**November 7–9, 2018**  
**Santa Cruz, CA**  
**Register [HERE](#)**

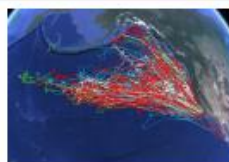
### **WORKSHOP BACKGROUND**

This is one in a series of regional workshops to identify priority stakeholder needs for regional telemetry and other types of observations of aquatic species that could be served by an ATN/MBON/OTN baseline network and to examine whether the type and extent of existing telemetry and biodiversity observing assets could adequately satisfy these requirements. The information generated at the workshop will be used to identify regional and national observation priorities to ensure that both are being met, a concise plan for sufficient funding of the envisioned national ATN tagging and MBON programs, and how integration and coordination of these assets will be achieved

**Animal Telemetry Network**

**Ocean Tracking Network**

**Marine Biodiversity Observation Network**



### **WORKSHOP OBJECTIVES**

- Identify and prioritize keystone monitoring and observational needs
- Identify the existing assets and capabilities in the region
- Document stakeholder uses of telemetry data
- Identify infrastructure and data management challenges and opportunities



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