

October 2018 Newsletter

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

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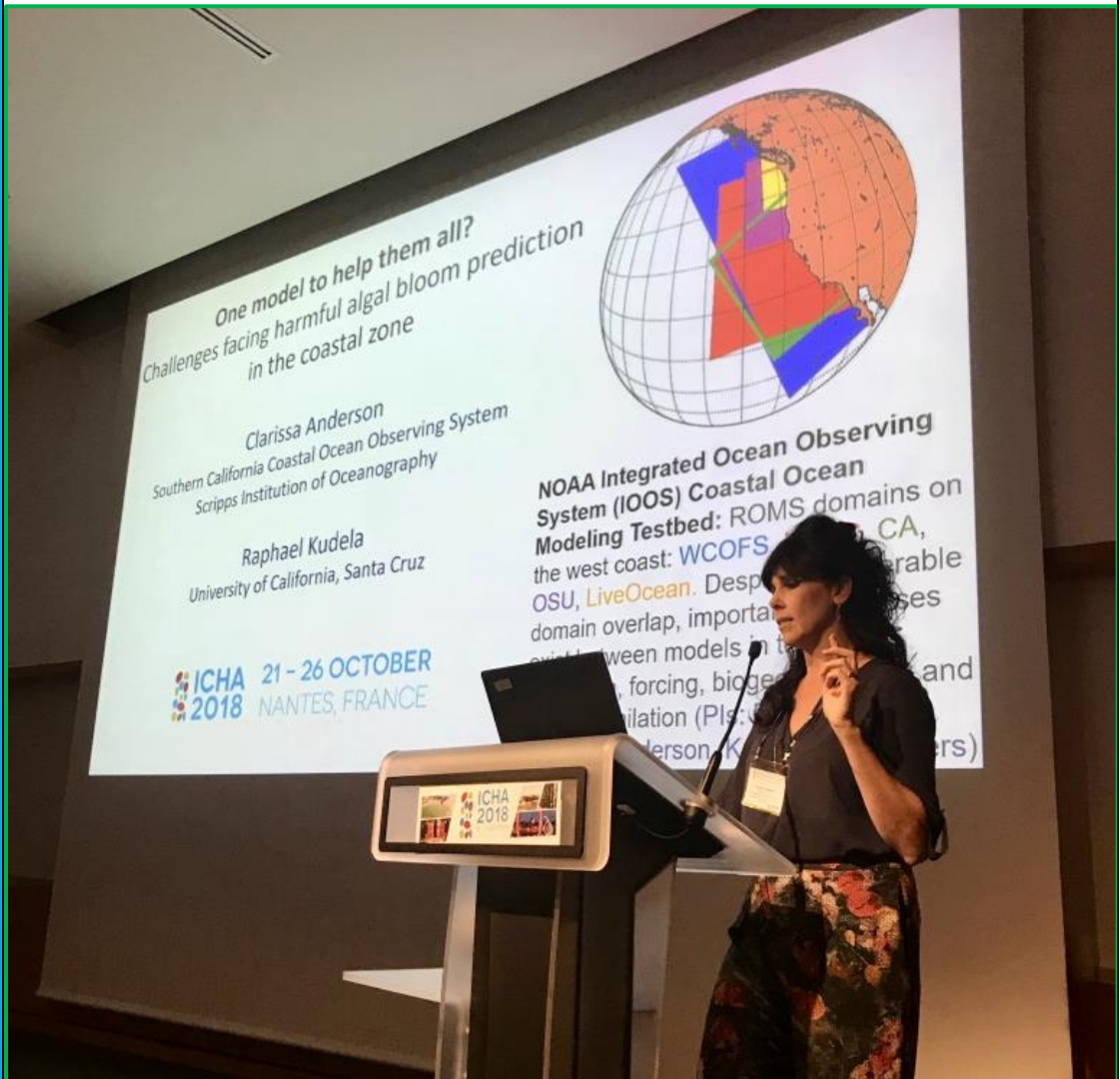
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International Conference on Harmful Algae (ICHA)

Clarissa Anderson, SCCOOS Executive Director, presented on challenges facing harmful algal bloom prediction along California's coast.

The [18th International Conference on Harmful Algae](#) took place October 21st – 26th in Nantes, France to discuss developments in harmful algal bloom research, such as the recent *Science* paper on the [biosynthesis of domoic acid](#) by colleagues here at Scripps Institution of Oceanography. Clarissa reported on some of the joint SCCOOS-CeNCOOS accomplishments related to HAB modeling and prediction. Dr. Raphael Kudela at UC Santa Cruz led a very engaging workshop on the operational transition of Imaging FlowCytobots deployed by his team at several HAB hot spots in California.



SCCOOS Executive Director, Clarissa Anderson, presenting on California harmful algal blooms at the 2018 ICHA in Nantes, France.



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California Environmental Phenomena Summit

Megan Hepner, SCCOOS Program Coordinator, educated teachers about the status and trends and drivers and pressures on local marine resources.

The [California Environmental Phenomena Summit](#) (#ProjectPhenomena) kicked off in San Diego on October 25th and 26th at the Marina Village Conference Center. Environmental Literacy is important to California educators as they look to inspire their students to overcome the challenges we are facing with climate change and ecosystem disruptions. ProjectPhenomena developed to help teachers understand Next Generation Science Standards, the Environmental Principles and Concepts and meet with expert scientists to better understand local phenomena.



Megan Hepner, SCCOOS Program Coordinator, educating local K-12 teachers about marine biodiversity at the Marina Village Conference Center. Bottom left: group leads Michelle Armenta, Megan Hepner, Andrea Pino Antl, and Jenn McCluan.

Councilmember Chris Ward

Councilmember Chris Ward (District 3) visited SCCOOS and CDIP at Scripps Institution of Oceanography on October 18th.

Councilmember Ward expressed interest in San Diego's blue economy and marine technology innovation, specifically the Tijuana River Plume Tracker. Clarissa Anderson explained how we use High Frequency (HF) radar that measures surface currents to track and forecast effluent (i.e., wastewater) following rain events. Contaminated runoff from the Tijuana River flows along the San Diego coast and can reach as far as Point Loma causing health advisories and beach closures. James Behrens, principal development engineer at CDIP,



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discussed the importance of the wave buoy program and showed Councilmember Ward the calibration facility.



James Behrens, CDIP Principal Development Engineer, Councilmember Chris Ward, and Clarissa Anderson, SCCOOS Executive Director at UCSD Scripps Institution of Oceanography.

San Diego MPA Collaborative Meeting

Megan Hepner met with the [San Diego MPA Collaborative Network](#) on October 4th at Solana Beach, CA.

The meeting highlighted the new Marine Protected Area (MPA) signage postings in San Diego and progress of a map of the La Jolla Canyon with life-size species made from tile and glass ceramics and the canyon bathymetry to be placed at Kellogg Park at La Jolla Shores Beach this spring.



Calla Allison, MPA Collaborative Director, back left corner, talking about applying for funds to increase enforcement in Marine Protected Areas through the Once-Through Cooling Program managed by the Ocean Protection Council.



Upcoming Activities

Nov 3: HAB Symposium

Nov 5-9: BlueTech Week

Nov 7-9: ATN-MBON-OTN Workshop

Nov 14: SCCOOS and CeNCOOS JSAC Meeting

Nov 15: CeNCOOS Science Impact Meeting

Nov 28: SCCOOS Board of Governors meeting

Nov 29: OA Hotspots Workshop

Funding Announcements

National Oceanographic Partnership Program (NOPP) 2019 Broad Agency Announcement (BAA).

For information on the BAA topics and Letters of Intent due date and Full Proposal due date click [here](#).

NOAA-NOS-NCCOOS is requesting proposals for two NOAA funding programs.

1. The Monitoring and Event Response for Harmful Algal Blooms ([MERHAB](#)) Program expects to fund approximately 7 to 9 projects. Proposals should meet one or more of the following priorities: (1) mitigate HAB impacts by incorporating research products into monitoring applications and encouraging their adoption into routine operation; (2) compare new and existing technologies; (3) provide training needed to effectively utilize and support adoption of new monitoring approaches; and (4) demonstrate the value of enhanced HAB monitoring for HAB early warning and forecasting. **Letters of Intent due: November 5, 2018.** Full applications due: January 22, 2019. For more information, please visit [MERHAB page](#) or contact Marc.Suddleson@noaa.gov.

2. The Ecology and Oceanography of Harmful Algal Blooms ([ECOHAB](#)) Research Program expects to fund up to three regional projects. ECOHAB objectives are: (1) to develop quantitative understanding of HABs and their toxins with the intent of developing new information and tools, predictive models and forecasts, and prevention strategies to aid management of coastal environments; and (2) to develop understanding that will inform models of trophic transfer of toxins, knowledge of biosynthesis and metabolism of toxins, and assessment of impacts of toxins on higher trophic levels. Regional or cross-regional proposals addressing the second objective are especially encouraged. **Letters of Intent due: November 5, 2018.** Full applications due: February 4, 2019. For more information, please visit the [ECOHAB page](#) or contact Quay.Dortch@noaa.gov.

NOAA/OAR/Ocean Acidification Program (OAP) is soliciting proposals for studies investigating ocean acidification monitoring.

Proposal should focus on strategies that would offer an observing system design that best characterizes and tracks ocean acidification within U.S. Large Marine Ecosystems (LMEs) optimized towards characterizing the conditions most relevant to ecologically and economically important marine species. Funding for this program is contingent upon availability of funds, which may not have been appropriated at the time of this announcement. **Letters of Intent are due January 7, 2019.** Full Proposals are due March 4th, 2019.

SCCOOS

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IOOS
Integrated Ocean
Observing System

