

# July – October 2020

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

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## Tribute to former NERACOOS Executive Director

New Hampshire Senator Jeanne Shaheen contributed a beautiful tribute to Dr. Ru Morrison, former NERACOOS Executive Director, acknowledging his significant contributions to IOOS and the ocean community at large. The tribute can be found in the [Senate's Congressional Records](#). We encourage you to take a minute to read the kind words.

Many of you will appreciate this statement:

"Anyone who's worked with Ru can attest to his warmth, wit, and self-deprecating sense of humor, which made working with him and NERACOOS a real pleasure" - Senator Shaheen

We should also note that Ru is the first recipient of the [IOOS Association Caraid Award](#) to recognize those who have made outstanding contributions to observing and understanding our oceans, coasts and Great Lakes through vision, leadership, friendship and collaboration.

[TRIBUTE TO DR. JOHN RUAIRIDH MORRISON; Congressional Record Vol. 166, No. 134](#)

## IOOS Caraid Award Nominations

IOOS Association is seeking nominations for the 2021 [Caraid Award](#), due Dec 11.

## FY21-26 Proposal to IOOS

**SCCOOS partnered with the Central and Northern California Ocean Observing System (CeNCOOS) to solicit Expression of Interest (EOI) for the next 5 year proposal to IOOS.** CeNCOOS and SCCOOS received over 50 EOIs from researchers across the west coast region. Proposals included existing projects as well as many new ones. Each proposal was evaluated and ranked by the SCCOOS Executive Steering Committee (ESC) and CeNCOOS Governing Council (GC) based on program priorities, scientific merit, responsiveness to stakeholder needs and feasibility of the project. EOIs chosen for inclusion in the proposal were identified and work to integrate these into the IOOS proposal has begun. The proposal to IOOS submission deadline is December 31, 2020.

**Request for support statements**

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We need your help! The support from our stakeholders and partners is essential to successfully secure the resources needed to sustain the region's observing systems. In an effort to condense and simplify the submission of Letters of Support for our IOOS proposal we are requesting you submit an endorsement statement. Please provide a short statement (2-6 sentences) about how your affiliation benefits from the SCCOOS program and/or uses the data and products we provide. Please complete the endorsement [google form](#) by Friday, Nov 13<sup>th</sup>.

## Red Tide Bulletin and Special Feature in Elementa – Submission now open

**Last quarter, we reported on a prolonged Red Tide event that occurred in Southern California from late March to the end of May.** The Bulletin consolidated over 50 figures of plots, maps, images, and videos from colleagues at SIO/UCSD, NOAA, SCCWRP, City of LA, Orange County, San Diego, and more. With the help of Surfrider and Surfline a survey was conducted to see if beachgoers experienced any respiratory symptoms potentially linked to the bloom. From the 800+ respondents, 25% reported symptoms and nearly all indicated seeing evidence of the algal bloom. Further analysis is forthcoming.

A special feature entitled *Red tide: Multidisciplinary studies of an exceptional algal bloom in southern California* in the UC journal *Elementa: Science of the Anthropocene* is now open for manuscript submissions related to this HAB event. Guest editors are Drs. Jeff Bowman and Clarissa Anderson.

## October 19<sup>th</sup>: SACNAS Lightning Talk

SCCOOS attended the annual meeting for the Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) 19-24 October and was excited to present at the NOAA Exhibitor Booth to kick off the week.

## Oct 13-16<sup>th</sup>: IOOS DMAC Meeting

IOOS held their annual DMAC meeting virtually this year, resulting in double the attendance! Among the topics discussed in the main session were QARTOD and improvements to the open-source code that supports its implementation, NOAA's AI strategy and the NOS AI/Machine Learning (ML) Working Group, the evolution of DMAC, including changing the name from Data Management and Communication to Data Management and CyberInfrastructure, ERDDAP, monitoring and updates to how NCEI ingests data. In addition, there were breakout sessions that allowed participants to focus on special interest topics in smaller, interactive groups. SCCOOS's own Data Manager, Vicky Rowley, was included on the panel for a Breakout session on modeling biological data using Darwin Core for submission to GBIF and OBIS. She also participated in a breakout session on data management techniques and metadata standards for audio and video datasets.

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## July 22<sup>nd</sup> and Oct 9<sup>th</sup> IOOS Summer and Fall Meetings

SCCOOS attended the IOOS Summer and Fall Meetings to develop the IOOS Association Strategic Plan and discuss future directions for IOOS.

## September 3<sup>d</sup>: San Diego Regional Lifeguard Meeting

Ross Timmerman represented SCCOOS and CDIP during the quarterly SD Regional Lifeguard meeting (SDR-ALERT). Ross spoke on recent ocean temperature anomalies and the recent red tide event.

## September 16<sup>th</sup>: GlobalHAB Meeting

Clarissa Anderson attended the quarterly UNESCO SCOR GlobalHAB meeting in her role as a Science Steering Committee member. Current discussions involve coordination with the Ocean and Human Health component of the Call for Decade Actions in response to the UN Decade of Ocean Science for Sustainable Development.

## COVID-19 Operational Impacts Update

The SCCOOS Program Office continues to work remotely during the COVID-19 pandemic. SCCOOS projects, such as the [HF Radar](#), [gliders](#), and [SCCOOS Automated Shore Stations \(SASS\)](#) and others, are continuing to work under COVID-related research and field operations restrictions. These groups are keeping assets and data collection going as best as possible.

## Grants, Awards, and Job Opportunities

- [Call for Nominations](#): Committee on Assessment and Advancement of Science in the Bureau of Ocean Energy Management's (BOEM) Environmental Studies Program. Deadline Friday, October 30, 2020.
- NOAA Ocean Acidification Program (OAP) and National Sea Grant Office (NSGO) Notice of Funding Opportunity (FY2021): [Addressing the Impacts of Multiple Stressors on Shellfish Aquaculture through Research/Industry Partnerships](#). LOI Due December 15, 2020. Full proposals due March 16, 2021.
- U.S. Department of Energy and NOAA announced the opening of the [DEVELOP Competition](#) within the [Ocean Observing Prize](#).
- [The William M. Lapenta NOAA Student Internship Program](#) open application period is from November 20, 2020 - February 1, 2021.
- [Call for Abstracts](#): Second International Operational Satellite Oceanography Symposium. 25-27 May 2021, Virtual Meeting.
- California Current Ecosystem Long-Term Ecological Research (CCE-LTER) program and the California Cooperative Oceanic Fisheries Investigations (CalCOFI) programs seeking [Data System Analyst 3](#). Deadline: October 30, 2020.

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- Southern California Regional Ecosystem Services Observation Network (RESO) seeking [Project Coordinator](#) (Assistant-Associate Specialist). Deadline: October 30, 2020.
- IOOS Association is seeking nominations for the 2021 [Caraid Award](#), due Dec 11.

## Publications

- Wilson JM, Carter ML, Muhle J, Bowman JS. (2020). [Using empirical dynamic modeling to assess relationships between atmospheric trace gases and eukaryotic phytoplankton populations in coastal Southern California](#). *Marine Chemistry*. [doi.org/10.1016/j.marchem.2020.103896](https://doi.org/10.1016/j.marchem.2020.103896)
- Kenitz KM, Orenstein EC, Roberts PLD, Franks PJS, Jaffe JS, Carter ML, Barton AD. (2020). [Environmental drivers of population variability in colony-forming marine diatoms](#). *Limnol. Oceanogr.* [doi.org/10.1002/lno.11468](https://doi.org/10.1002/lno.11468)
- Orenstein EC, Ratelle D, Briseno-Avena C, Carter ML, Franks PJS, Jaffe JS, Roberts PLD. (2020). [The Scripps plankton camera system: A framework and platform for in situ microscopy](#). *Limnol. Oceanogr.* [doi.org/10.1002/lom3.10394](https://doi.org/10.1002/lom3.10394)
- Larkin AA, Moreno AR, Fagan AJ, Fowlds A, Ruiz A, Martiny AC. (2020). [Persistent El Nino driven shifts in marine cyanobacteria populations](#). *PLOS One*. [doi.org/10.1371/journal.pone.0238405](https://doi.org/10.1371/journal.pone.0238405)

## News Articles

- [Survey to Track Health Issues from Red Tide Exposure](#). *Dana Point Times*. 6-July 2020.
- [FAQ: California's Marine Heatwaves](#). *California Sea Grant*. 14-July 2020.
- [Bringing New Life To Harmful Algal Bloom Prediction After Crossing The Valley Of Death](#). *California Life Sciences Association*. 30-July 2020.
- [Tackling toxic algal blooms from two directions](#). *California Sea Grant*. 03-August 2020.
- [Do SoCal's Recent Red Tides Have Harmful Health Effects?](#) *Spectrum News 1*. 11-August 2020.
- [Record Ocean Temperatures Bring Humans, Sea-life to Coast](#). *10 News*. 24-August 2020.

## Upcoming Activities

- October 26-30: PICES
- November 16-18: [WMO Data Conference](#)
- November 16-20: BlueTech Week
- November 30-December 3: International Virtual Conference on [the use of Environmental DNA \(eDNA\) in Marine Environments: Opportunities and Challenges](#) hosted by POGO.
- December 1-2: CalCOFI 2020 Virtual Conference
- December 7-11: [AGU Fall Meeting](#)

## Contact Us:

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