

May-June 2019 Newsletter

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

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Welcome Ross Timmerman

Ross Timmerman joins CDIP and SCCOOS as a Research Data Analyst. Ross



joined the SCCOOS group in May as a Research Data Analyst to support a variety of activities, such as programming, report writing and website development. He also has an appointment with the Coastal Data Information Program (CDIP) where he specializes in stakeholder engagement, outreach activities, and field operations. Prior to joining CDIP, Ross spent a number of years working for the nearshore sensor group at PacIOOS and for the Data Stewardship group at Ocean Networks Canada. This provides him with a diverse understanding of ocean observing systems and the associated metadata and technologies. He holds a B.S. in Global Environmental Science from the University of

Hawaii and a M.S. in Environmental Science from the University of Virginia.

IOOS DMAC Meeting – Apr 30th - May 2nd

Vicky Rowley, SCCOOS Data Manager, attended the annual [IOOS Data Management and Communications \(DMAC\) Meeting](#) in Silver Springs, MD from April 30-May 2. Vicky worked with ERDDAP developer, Bob Simon, on getting SCCOOS HABS data into ERDDAP which is now [available online](#).

21st Annual Perspectives on Science – May 7th

Clarissa Anderson, SCCOOS Executive Director, gave the keynote presentation at Point Loma Nazarene University [21st Perspectives on Science](#) formal dinner. Clarissa gave a seminar titled “Toxins from Space.” Clarissa educated San Diego middle school and high school science teachers on Harmful Algal Blooms (HAB) and toxins and how we can measure HABs using remote sensing.

CINMS Sanctuary Advisor Council Meeting - May 17th

Megan Hepner, SCCOOS Program Coordinator, presented at Channel Islands National Marine Sanctuary (CINMS) [Sanctuary Advisory Council \(SAC\) Meeting](#) held in Santa Barbara on May 23rd. Megan highlighted SCCOOS and CDIP data that aids in MPA monitoring and briefed them on the recently funded OPC MPA Project (lead PI Henry Ruhl, CeNCOOS) that will develop curated data and model analytics that compile ocean physics, ocean biogeochemistry and ecosystems for MPA monitoring, as well as crossreference to atmospheric and runoff conditions.

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Climate Change Panel hosted by Rep. Davis – June 15th

Congresswoman Susan Davis invited Clarissa Anderson to moderate a [climate change panel](#) on Saturday, June 15th. The panelists included colleague Mark Merrifield, Director of UCSD Center for Climate Change Impacts and Adaptations. After the panel concluded, Rep. Davis announced her support for the Green New Deal.



Clarissa Anderson, moderator, at left, and Congresswoman Susan Davis, D-San Diego, and Mark Merrifield, panelist, on right, listen as panelists complete their answers to questions asked by an audience about global warming on Saturday, June 15. Photo credit: [San Diego Jewish World](#).

MPA Workshop and OPC Meeting – May 23rd

Ocean Protection Council held an [MPA Workshop](#) prior to the afternoon OPC Meeting during which time Pete Raimondi and Jenn Caselle highlighted recent MPA research. Megan Hepner, SCCOOS Program Coordinator, and Henry Ruhl, CeNCOOS Director, discussed their products and tools during the MPA Partners Fair. In the afternoon, the OPC Council voted Clarissa Anderson in as a new member of the [OPC Science Advisory Team](#).

NASA Biodiversity and Ecological Forecasting Team Meeting & MBON All-Hands Meeting – May 21st – 24th

Clarissa Anderson attended the [NASA Biodiversity and Ecological Forecasting Team Meeting](#) and the Marine Biodiversity Observation Network (MBON) All-Hands Meeting held May 21-24 in Arlington, VA. The three MBON demonstration projects funded in 2014 (e.g., Santa Barbara MBON, Sanctuary MBON, and Alaska MBON) by BOEM, NASA and NOAA are coming to a close.

SBC MBON Meeting – June 3rd

SCCOOS data manager, Vicky Rowley, and SBC-LTER/MBON data manager, Margaret O'Brien, brainstorm strategies on how to best get [Kelp Landsat data](#) available on the [SCCOOS ERDDAP server](#). They also discussed how to use their Darwin Core-compliant (DwC) dataset as a model for making SCCOOS HABs DwC. Data that are DwC can then be ingested into the OBIS and MBON databases.

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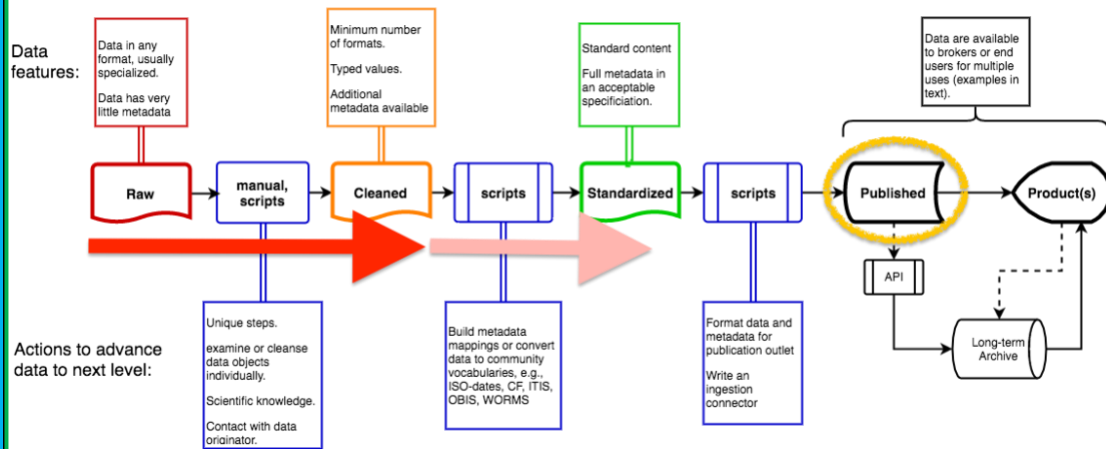
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Generic MBON data processing workflow. From: [MBON DMAC](#), 2016. Data management alignment, Workshop report.

Phycological Society of America Meeting – June 24-27

Clarissa Anderson was a plenary speaker. On Wednesday, June 26th, Clarissa gave the opening lecture titled “Bringing New Life to HAB Prediction After Crossing the Valley of Death.” She also taught a Remote Sensing Workshop to PSA members on the first day of the meeting and judged student talks for the Bold Award. The final program is available [here](#).

Publications & News Articles

Ecker, M. “Answering the Call of the Ocean.” *Nasa Science Share the Science*, June 2019. Short [biography](#) on our very own, Executive Director, Clarissa Anderson. “The coastal zone is where it’s at because that’s where people are living,” Anderson said. “It’s every level of public interest that you can imagine that we want to serve. It’s a huge challenge, but it’s pretty exciting.”



Upcoming Activities

July 22 – 24
IOOS Directors
Retreat

July 29 – Aug 2
ROMS 4DVAR
Data
Assimilation

Sept 15-20
OceanObs 19

Sept 20
IOOS Fall
Meeting

Sept 30-Oct 2
EPOC

Anderson et al., 2019. Scaling Up From Regional Case Studies to a Global Harmful Algal Bloom Observing System. *Frontiers*. HABs produce local impacts in nearly all freshwater and marine systems globally. The problem requires an integrated and coordinated scientific understanding, leading to regional responses and solutions. This paper examines several regional programs in the United States, Europe and Asia and realize there is no one-size-fits-all approach, but provides several recommendations for how to scale up to a global observing system for HABs.

Davis et al., 2019. “100 Years of Progress in Ocean Observing Systems.” *Meteorological Monographs*. SCCOOS Executive Chair and PI, Daniel Rudnick, contributes to the article that summarizes a 100 years of ocean measurements and some of the discoveries the instruments made possible.

Anderson featured in ABC 10News San Diego on May 30th. “Red tide returns: Photos show bioluminescent glow along San Diego shores.”

Matson et al., 2019. “Formation, Development, and Propagation of a Rare Coastal Coccolithophore Bloom.” *Journal of Geophysical Research: Oceans*. SCCOOS Board Chair and PI, Libe Washburn, contributes to article on the of the coccolithophore *Emiliania huxleyi* along the California coast during the unusually warm water event in 2014–2015. The approach is likely to be useful for understanding the rise and fall of phytoplankton blooms along the coast.

Announcements

Margaret A. Davidson Graduate Fellowship NOAA Office of Coastal Management announced a brand-new fellowship for graduate students to work in National Estuarine Research Reserves. Application deadline is December 20th. Learn more [here](#).

California Ocean Science Trust is now hiring a new Science Director. OST will begin to review applications on July 1st. Click [here](#) for more information.

National Science Foundation hiring Ocean Policy Specialist. Deadline to apply is July 11th. Read more about the position [here](#).

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