

SOUTHERN CALIFORNIA COASTAL OCEAN OBSERVING SYSTEM

Summer 2022 Newsletter

In this Issue

- [CalOOS Data Portal](#)
- [Welcome Ian Brunjes, SCCOOS Data Scientist and Product Developer!](#)
- [Large Domoic Acid Event in Southern and Central California](#)
- [Science Impact and Stakeholder Engagement Meeting](#)
- [New IOOS Association Leadership](#)
- [Where SCCOOS has been Spotted](#)
- [Recent Publications](#)
- [Funding and Job Opportunities](#)
- [Upcoming Activities](#)

Find regularly updated information about Jobs, Student Opps, Funding, Events, and more on the [SCCOOS website](#) and on [Twitter!](#)

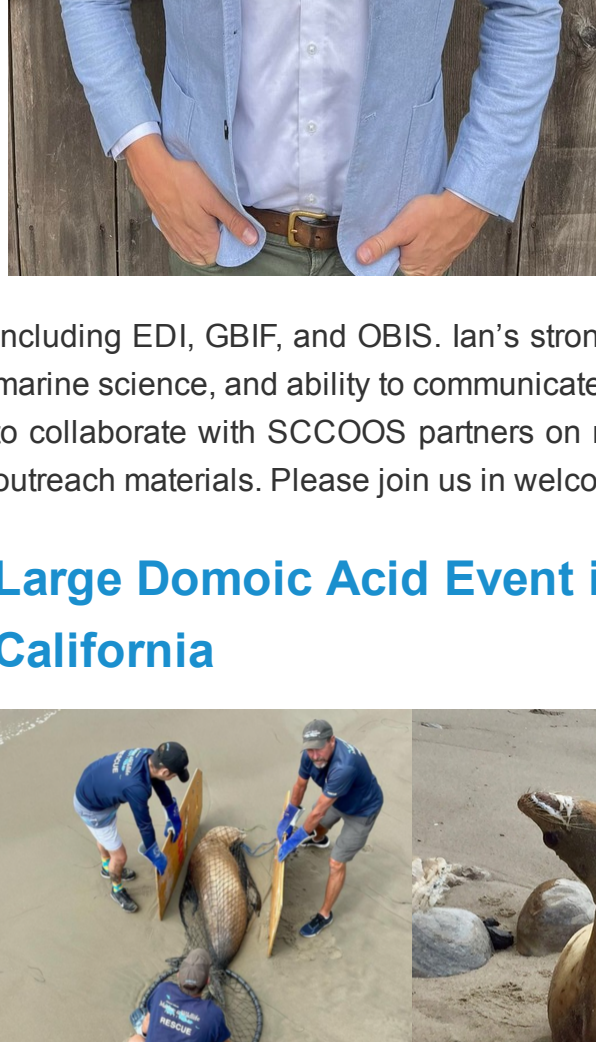
New CalOOS Data Portal



SCCOOS and CeNCOOS partnered with Axiom Data Science to develop a [California Ocean Observing Systems Data Portal](#) for enhanced data discoverability and access. Users can search the Catalog for ocean and coastal data by technology, observations, affiliations and project title. You can read more about the portal features on the [documentation overview](#) page. SCCOOS and CeNCOOS will also be hosting a “how to” webinar for our stakeholders and users on **Wednesday, October 3, 2022 at 12:00 PM PT**. [Register for the webinar here](#). Don't see the data set you are looking for or want to inquire about making your data available in the CalOOS Portal? Click the Feedback tab in the top right hand corner of the portal!

<https://data.caloos.org/>

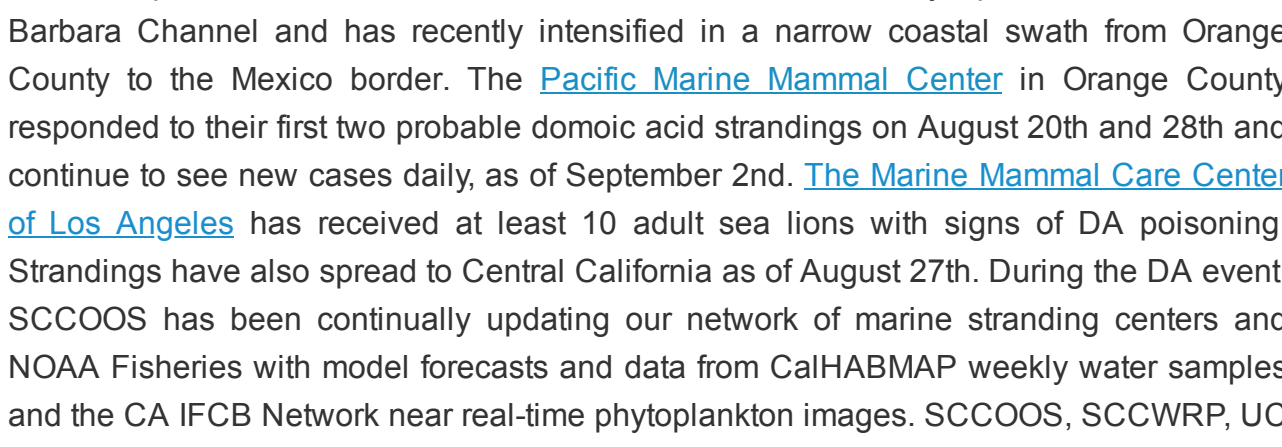
Welcome Ian Brunjes, SCCOOS Data Scientist and Product Developer



Ian Brunjes recently graduated with his Master's degree from the UCSB Bren School of Environmental Science and Management with a focus in Coastal Marine Resource Management. For his group project, Ian curated data views for the Channel Islands and Monterey Bay National Marine Sanctuaries to assess the spatial and temporal use of “seal bombs” by fisheries along the California coast. Prior to pursuing his master's degree, Ian worked for six years as a professional software developer in the tech industry where he utilized his bachelor's degree in Computer Science and honed his programming skills. Ian worked with SCCOOS as a summer intern in 2021 through the NSF Environmental Data Initiative to publish CalHABMAP data into accessible repositories

including EDI, GBIF, and OBIS. Ian's strong background in computer science, passion for marine science, and ability to communicate effectively with stakeholders positions him well to collaborate with SCCOOS partners on new product development, analytical tools, and outreach materials. Please join us in welcoming Ian Brunjes to the SCCOOS team!

Large Domoic Acid Event in Southern and Central California



Left: CIMWI volunteers rescuing a sea lion; middle: Adult female sea lion exhibiting domoic acid poisoning. Right: C-HARM particulate domoic acid nowcast on August 17, 2022.

Between August 15th and August 30th the [Channel Islands Marine Wildlife Institute](#) (CIMWI) responded to 164 probable Domoic Acid (DA) cases of sea lion strandings in Santa Barbara and Ventura counties which encompasses 155 miles of coastline. The obvious signs of acute DA poisoning in these stranded animals have not been consistent with SCCOOS-funded pier monitoring via HABMAP at Stearns Wharf or other southern California piers, which has not captured any indication of a significant bloom event over the last few weeks. Stearns Wharf in Santa Barbara, nearest to where the majority of strandings have occurred, has only reported low levels of *Pseudo-nitzschia spp.*, and the other Southern California pier sites reported similarly low cell abundances. The California Harmful Algae Risk Mapping (C-HARM) System, on the other hand, has been producing spatially explicit DA forecasts that align with the present event, first predicting a highly localized patch of DA risk in the Ventura area that eventually spread into the Santa Barbara Channel and has recently intensified in a narrow coastal swath from Orange County to the Mexico border. The [Pacific Marine Mammal Center](#) in Orange County responded to their first two probable domoic acid strandings on August 20th and 28th and continue to see new cases daily, as of September 2nd. [The Marine Mammal Care Center of Los Angeles](#) has received at least 10 adult sea lions with signs of DA poisoning. Strandings have also spread to Central California as of August 27th. During the DA event, SCCOOS has been continually updating our network of marine stranding centers and NOAA Fisheries with model forecasts and data from CalHABMAP weekly water samples and the CA IFCB Network near real-time phytoplankton images. SCCOOS, SCCWRP, UC Santa Cruz, and The Marine Mammal Center of Sausalito have been awarded funding from the [NOAA NCCOS Harmful Algal Bloom Event Response Program](#) to process water and tissue samples from the stranded animals to better understand the DA event, its spatial extent, and where in the ocean environment the animals most likely acquired DA.

Science Impact and Stakeholder Engagement Meeting



On May 24-25, 2022 the IOOS Regional Associations SCCOOS and CeNCOOS gathered key community members from our Joint Strategic Advisory Committee (JSAC) and Principle Investigators to update on observing and scientific advancements and to chart a path for future progress. Over 70 participants met in Avila Beach, CA to exchange information on current activities, highlight existing observational and information needs, and build consensus on regional State of California priorities. Below, we provide a brief summary of the two-day proceedings, including the agenda and links to presentations, discussion jamboards, and the high-level emerging themes. Read more [HERE](#).

New IOOS Association Leadership



We are excited to announce that the new Executive Director for the [IOOS Association](#) is Kristen Yarincik. Kristen brings over 20 years of experience leading and managing programs that advance the ocean community, including a leadership role in developing and supporting community initiatives. She has strived to advance the ocean community through her areas of personal interest and commitment, as demonstrated by her work to improve diversity, equity, inclusion, and safety in ocean science. Most recently, Kristen served as Vice President and Director for Research and Education at the Consortium for Ocean Leadership where she provided strategic and programmatic oversight for research and education programs, including the Gulf of Mexico Research Initiative, the Interagency Ocean Observation Committee, and the National Ocean Sciences Bowl. Based in the Washington, DC area, Kristin will bring renewed ability for the many federal coordination and liaison activities that improve our ability to deliver our SCCOOS vision and mission, along with the other 10 Regional Associations of IOOS and their many delivery partners. Please join us in welcoming Kristen Yarincik to the IOOS team!

Where SCCOOS has been Spotted

SCCOOS has co-organized, participated in, and presented at several virtual workshops over the past few months. Meeting programs, notes, and presentations are linked below.

- June 10, 2022: Scripps Pier Symposium, La Jolla, CA - C. Anderson and M. Carter Planning Committee, M. Carter Presented
- June 20-24, 2022: Ocean Carbon and Biogeochemistry Meeting, WHOI, MA - C. Anderson presented
- June 28-29, 2022: NOAA Fisheries BGC Argo Workshop, La Jolla, CA
- July 19: SOST Opportunities and Actions in Ocean Science and Technology Roundtable - 3-minute lightning talk - [C. Anderson presented](#) (8:38)
- June 27th - Jul 1, 2022: UN Ocean Conference Session on Ocean Obs - E. Satterthwaite presented
- July 28: Meeting with Assemblywoman Laurie Davies - C. Anderson presented
- Aug 8-9: Teachers Workshop San Diego County - C. Anderson presented
- August 9: NOAA West Watch Webinar - C. Anderson presented
- August 12: C. Anderson and A. Barton toured Baja Aqua Farms and discussed different HAB and OAH monitoring methods

Recent Publication

SCCOOS PI's are in bold.

- Byrne, S., **Merrifield, M.**, **Carter, M.**, Cayan, D., Flick, R., Gershunov, A., & Giddings, S. (2022). Southern California winter precipitation variability revealed by 100-year ocean salinity record. *Research Square*. <https://doi.org/10.21203/rs.3.rs-1769820/v1>
- Castorani, M.C.N., **Bell, T.W.**, Walter, J.A., Reuman, D.C., Cavanaugh, K.C., Sheppard, L.W. (2022). Disturbance and nutrients synchronize kelp forests across scales through interacting Moran effects. *Ecology Letters*. <https://doi.org/10.1111/ele.14066>
- **García-Reyes, M.**, Thompson, S. A., Rogers-Bennett, L., & **Sydean, W. J.** (2022). Winter oceanographic conditions predict summer bull kelp canopy cover in northern California. *PLoS one*, 17(5), e0267737. <https://doi.org/10.1371/journal.pone.0267737>
- Howard, M. D., Smith, J., **Caron, D. A.**, Kudela, R. M., Loftin, K., Hayashi, K., ... & Theroux, S. (2022). Integrative Monitoring Strategy for Marine and Freshwater Harmful Algal Blooms and Toxins Across the Freshwater-to-Marine Continuum. *Integrated Environmental Assessment and Management*. <https://doi.org/10.1002/ieam.4651>
- Moreno, A. R., **Anderson, C.**, Kudela, R., Sutula, M., Edwards, C., & **Bianchi, D.** (2022). Development, calibration, and evaluation of a model of Pseudo-nitzschia and domoic acid production for regional ocean modeling studies. *Harmful Algae*, 118, 102296. <https://doi.org/10.1016/j.hal.2022.102296>
- Ollison, G. A., Hu, S. K., Hopper, J. V., Stewart, B. P., Smith, J., Beatty, J. L., ... & **Caron, D. A.** Daily dynamics of contrasting spring algal blooms in Santa Monica Bay (central Southern California Bight). *Environmental Microbiology*. <https://doi.org/10.1111/1462-2920.16137>
- Shipley, K., **Martz, T.**, Bresnahan, P., & Wirth, T. (2022). Metabolic rates in the Agua Hedionda Lagoon during the 2020 Southern California red tide event. *Elementa Science of the Anthropocene*, 10(1), 00018. <https://doi.org/10.1525/elementa.2022.00018>

Funding and Job Opportunities

- NSF Ideas Lab - [Engineering Technologies to Advance Underwater Sciences](#) (ETAUS). Preliminary proposals due September 19, 2022
- Stanford Center for Ocean Solutions - [Research Data Analyst](#)
- California Sea Grant is hiring a [Science Communications Specialist](#). Application deadline is September 14, 2022
- IOOS [Regional Coordinator](#). Application deadline is September 14, 2022
- Integrated System Solutions is hiring three new positions
 - [Data Scientist for Modeling Analysis and Outreach](#)
 - [Program Analyst for Grants & Regional Coordination](#)
 - [Program Analyst for the Federal Advisory Committee and Regional Coordination](#)
- UCSC in collaboration with NOAA Fisheries is seeking to hire a [Postdoc](#). Application deadline is September 30, 2022
- NOAA Solicitation of Nominations for members of the [Ocean Research Advisory Panel to the Ocea Policy Committee](#). Application deadline is September 30, 2022
- [Ocean Discovery Institute](#)
- Ocean Time Series Lab at Scripps has two vacancies
 - [Mechanical Oceanographic Engineer](#)
 - [Oceanographic Mooring Technician](#)

Upcoming Activities

- September 12-14: [2nd National eDNA Workshop](#), Costa Mesa, CA
- September 13-16: [ASBPA National Coastal Conference](#), Long Beach, CA
- September 14-17: [Eastern Pacific Ocean Conference](#), Mt Hood, OR
- September 16: [CINMS Sanctuary Advisory Council Meeting](#), Santa Barbara, CA & online
- September 19-22: [MTS Buoy Workshop](#), Wilmington, NC
- September 20-22: [UC2 Workshop](#), Seattle, WA
- October 17-19: NCEAS CA MPA Network Assessment Working Group, virtual
- October 18-20: [Tribal Exchange Network Conference](#), Flagstaff, AZ
- October 23-28: [11th US Harmful Algae Symposium](#), Albany, NY
- November 1-11: US MBON Meeting, Monterey Bay, CA
- November 4-11: IOOS Director's Retreat and All-Hands Meeting, Puerto Rico
- December 4-7: [CalCOFI Conference](#): Innovative techniques & novel applications of time series data to marine resource management
- December 4-8: [RAE Coastal and Estuarine Summit](#), New Orleans, LA
- December 12-16: [AGU Fall Meeting](#), Chicago, IL
- January 8-12 2023: [103rd AMS](#), Denver, CO

SCCOOS Program Office and Leadership *Clarissa Anderson, Libe Washburn, Dan Rudnick, Ross Timmerman, and Megan Medina with baby Zoe.*

Wishing you a happy summer and a great start to the fall semester!

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