

February 2019 Newsletter

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

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SCCOOS PI Meeting – January 24th

We hosted the [SCCOOS PI meeting](#) at Scripps Institution of Oceanography on Thursday, January 24th. Each PI gave a 10-minute presentation addressing their project objectives, achievements, challenges and suggested new initiatives.

Ideas for new initiatives included:

1. Adding new HF radar sites to fill coverage gaps (e.g., Point Buchon and Ventura), expand the use of antenna pattern measurements (APM), and work with HAB investigators to incorporate HFR in efforts to understand bloom development via ocean color remote sensing.
2. Purchasing Solid Phase Adsorption Toxin Tracking (SPATT) bags to integrate dissolved domoic acid (and a suite of emergency toxins) to complement weekly particulate DA samples at the five regional HAB stations, adding Imaging Flow Cytobots (IFCBs) to the shore stations for real-time data integration and offshore sampling using AUVs.
3. Adding pH and oxygen sensors to all Automated Shore Stations.
4. Develop a statewide inundation project similar to what is currently being done at Imperial Beach and Cardiff Beach.
5. West coast model evaluation and reanalysis in conjunction with release of the operational West Coast Ocean Forecast System (WCOFS).

Following the PI meeting we are working to revamp a new project page for each PI that will provide background information, links to access the data and relevant publications. We are also in discussions with CeNCOOS about hosting a joint SCCOOS-CeNCOOS Scientific Showcase in Fall 2019. Stay tuned! Click here to see the full [agenda](#).

Chris Lowe, CSU Long Beach, Shark Lab PI

On Friday, February 8th, Chris Lowe, head of the [Shark Lab](#) at CSU Long Beach, and his colleagues, Alvaro Monge and Darnell Gadberry, met with SCCOOS to discuss future collaboration with animal telemetry data.

Chris Lowe has been studying and tagging sharks since the 1990s. Chris and his team have an array of acoustic receivers in Southern California to detect animal movements and site fidelity of their tagged individuals, most notably white sharks. We are hoping to work with Chris and his team to develop a visualization tool that layers the tagged shark movements with environmental data known to influence shark behavior (e.g., sea surface temperature, dissolved oxygen, and harmful algae) including SCCOOS automated and manual shore station data. Melissa Carter, SCCOOS HAB and SASS PI, took the team on a tour of Scripps pier explaining how and what data are collected as part of the SCCOOS Automated Shore Station Program and how the program could assist by providing real-time data, serving as fixed additional platforms for receivers, and possibly providing power and network connectivity.



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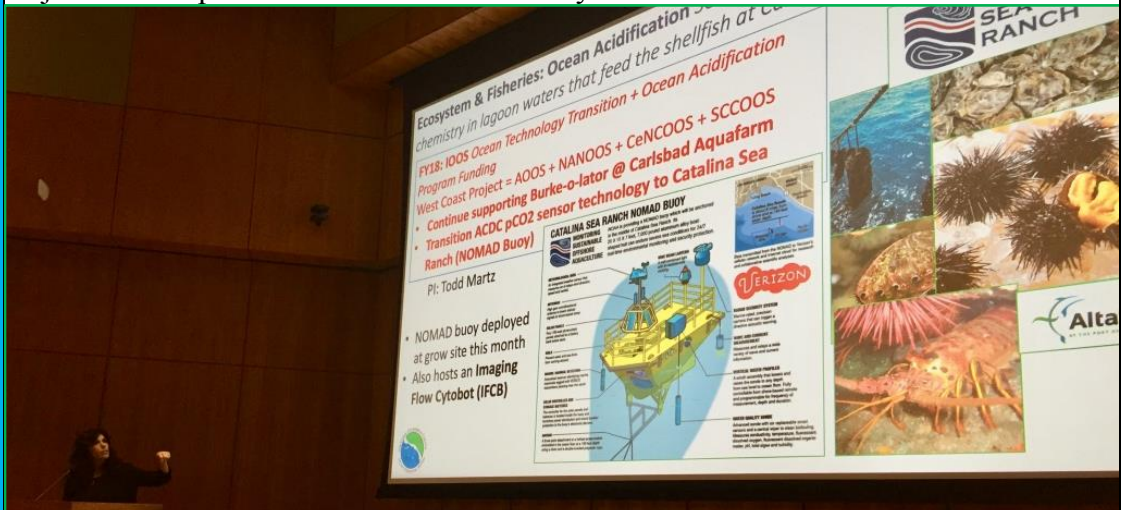
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Left: Alvaro Monge, Chris Lowe, Darnell Gadberry, Melissa Carter touring Scripps Pier. Right: Melissa Carter holding a Niskin bottle used to collect weekly water samples for phytoplankton, domoic acid and nutrient analysis.

Clarissa Anderson speaks at Scripps Institutional Seminar – February 22nd

Clarissa Anderson, SCCOOS Executive Director, and James Behrens, CDIP Program Manager, presented at the [Scripps Institutional Seminar](#). Clarissa kicked off the talk by walking the audience through the different SCCOOS governance groups and their roles and explained how SCCOOS meets the U.S. IOOS goals, which further feeds into the Global Ocean Observing System (GOOS), made up of a coalition of nations. Clarissa further highlighted SCCOOS ocean acidification monitoring efforts, the benefits of SCCOOS flooding and storm surge models, Tijuana River plume tracker and the monthly CA HAB Bulletin.



Clarissa Anderson highlighting SCCOOS ocean acidification monitoring efforts at Carlsbad Aquafarm and Catalina Sea Ranch at the Scripps Institutional Seminar.



Upcoming Activities

Mar 19: [IOOS Spring Meeting](#)

Mar 20: [SCCOOS Hill Visits](#)

Mar 21: [IOOS FAC Meeting](#)

Mar 26: [San Diego Climate Summit](#)

Mar 31 - Feb 4: [OceanVisions 2019 Summit](#)

ASLO Aquatic Science Meeting

Clarissa Anderson attended the [ASLO Aquatic Science Meeting](#) in San Juan, Puerto Rico from February 23rd to March 2nd.

Clarissa presented on Thursday, February 28th in the Transitioning Scientific Research into Meaningful Applications session and the Harmful Algal Blooms session.

Oceanology International Americas 2019 Exhibition

Megan Hepner, SCCOOS Program Coordinator, and James Behrens, CDIP Program Manager, hosted a booth at the [Oi Americas](#) conference at the San Diego Convention Center, February 25th – 27th.

Megan and Jim connected with over 50 participants discussing SCCOOS and CDIP technologies, observations and products at the exhibit and during the OceanSocial networking event.



Megan Hepner and James Behrens fully energized to meet with participants to discuss ocean observing in Southern California and the national buoy network at the Oi Americas exhibit.

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