



# SCCOOS News

*The IOOS Regional Association Serving Southern California*

[www.sccoos.org](http://www.sccoos.org) • (858)534-3034 • [info@sccoos.org](mailto:info@sccoos.org)

## In this issue

November 2015 Issue

1. October 2015 Activities
2. The Maritime Alliance to Host Their 7<sup>th</sup> Blue Tech and Blue Economy Summit  
November 9-10 & 12 in San Diego
3. LEARN MORE: The City of Los Angeles' Hyperion Water Reclamation Plant Completes their  
Diversion October 26<sup>th</sup>
4. Understanding El Niño, a Global Climate Phenomenon with Local Effects
5. Want to See SCCOOS in Action? Come to our Presentation at Ocean Enterprises Dive Shop in  
San Diego on November 12<sup>th</sup> at 7 pm
6. Call to Action for Citizen Scientists: We Need Your Storm Related Pictures!!



## October 2015 Activities



|                 |   |
|-----------------|---|
| October 6       | U.S. IOOS Director, Zdenka Willis Visits with SCCOOS  |
| October 8       | Marine Sanctuaries Webinar                            |
| October 8       | Meeting with Thomas Grimm, Carlsbad Aquafarm Owner    |
| October 15      | Climate Adaptation in California Listening Session    |
| October 21 & 22 | Office of Spill Prevention and Response Workshop      |
| October 24      | Pasadena SCUBA Diving Group Tour                      |
| October 26      | Scripps Institution of Oceanography Director's Circle |
| October 29      | Tour with San Marcos Students                         |
| October 29      | Online Ocean Symposium                                |



## The Maritime Alliance (TMA) to Host Their 7<sup>th</sup> Blue Tech and Blue Economy Summit and Tech Expo in San Diego

Mark your calendars for a very exciting week in San Diego. The Maritime Alliance hosts their annual summit and focusing on promoting **BlueTech** and **Blue Jobs**, and this one is ramping up to be a standout year for TMA.

Their **7th BlueTech and Blue Economy Summit** and Tech Expo is November 9-10 at the Crowne Plaza San Diego. On November 9th, following the summit, is a Maritime Gala Dinner & Awards Ceremony where they will be honoring [Theresa Talley](#) with a Sustainable Seafood Award (Congrats Theresa!!). November 10th is designated Blue Workforce Development Day and will focus on education, promoting a Blue Economy in California, collaboration with research institutes and understanding industry.



On November 12th there will be a BioMarine and Maritime Robotics workshop co-hosted by Scripps Institution of Oceanography and TMA at the Seaside forum on the SIO campus.

All who are interested should check out the agendas and register through the [TMA website](#).

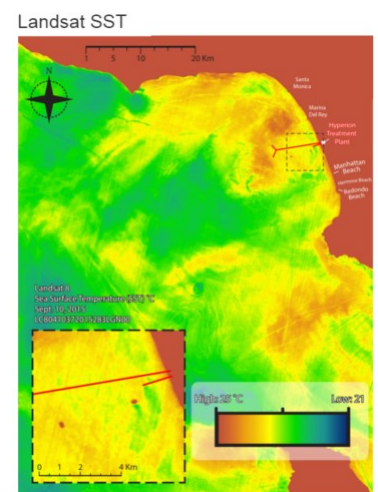
## LEARN MORE: The City of Los Angeles' Hyperion Water Reclamation Plant Completes their Diversion October 26<sup>th</sup>

To protect from aging infrastructure, Los Angeles Sanitation (LSAN) has repaired their Hyperion Water Reclamation Plant Discharge System that discharges treated water to Santa Monica Bay through a five mile outfall. During the repairs, the disinfected, treated water was diverted to the one-mile outfall, which is used when the 5-mile outfall is not in service.

You can learn more from a El Segundo TV [YouTube video](#)

Monitoring during this project involved many partners to better understand interactions between treated water in the nearshore. Those partners are;

- Universities (UCSB, UCSD and USC)
- NASA Jet Propulsion Lab
- [SCCOOS](#)
- Regional Water Quality Control Board
- Santa Monica Bay Restoration Committee Technical Team
- County Department of Public Health
- Heal the Bay
- LA Waterkeeper
- Ballona Institute



Landsat-8 sea surface temperature data from 10/10/15 at 11:28.05 PDT, during the diversion. A cooler temperature signal can be seen at the terminus of the 1 mile outfall pipe, spreading to the south. Two warm signatures from the large ships south of the 1 mile outfall pipe can also be seen.

## Understanding El Niño, a Global Climate Phenomenon with Local Effects

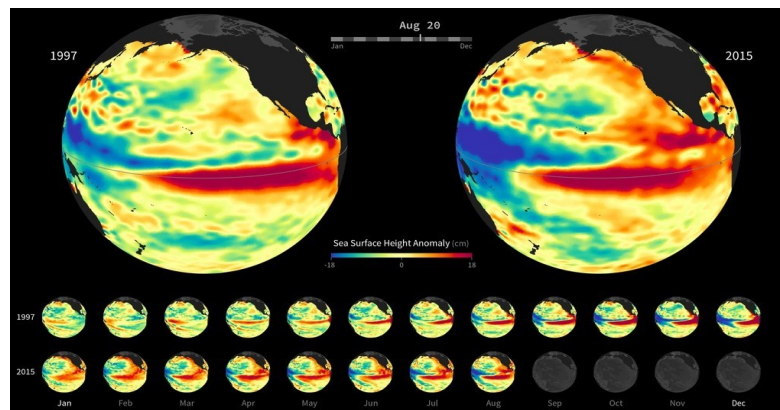
Trying to wrap your mind around what El Niño can be, is difficult at best. SCCOOS thought that this would be an opportune time to do some of that work for you and share the results we have found.

What is El Niño and how does it happen? Check out this [video](#) →



What is [NOAA forecasting](#) for this El Niño?

How does the [current conditions](#) match up to the last big El Niño in 97/98?



## What are some of biological indicators of warmer waters during an El Niño?



[NOAA](#) surveys off California in July 2015 found jellyfish and ocean sunfish. Anglers have reported excellent fishing for warm water species including tuna, yellowtail, dorado and many sharks.

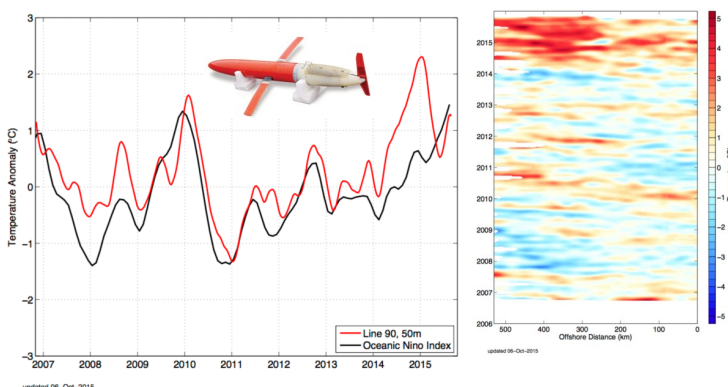


Usually off of Baja's Coast, **Tuna Crabs** follow warm water and then wash ashore in droves further up coast [during El Niño years](#).

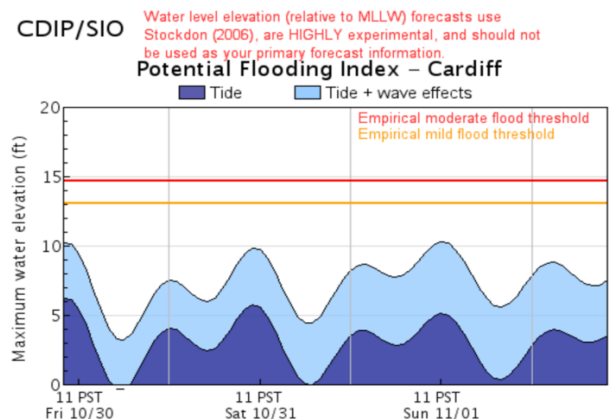


[Velella velella](#) are jellyfish that have been known as an indicator species of an El Niño.

## What [El Niño data and products](#) does SCCOOS have?



Glider-measured temperatures have been collected off the Southern CA coast since 2007. These indices are remarkably correlated with glider-measured temperatures at the equator and are used to assist in forecasting the size and magnitude of El Niño's.



A flooding index integrates local waves and tidal fluctuations to monitor and forecast local flooding. The Cardiff location is the initial test site for this project, there are more to come!



## Want to See SCCOOS in Action? Come to our Presentation at Ocean Enterprises Dive Shop in San Diego

On November 12 at 7 pm SCCOOS will be giving an El Niño talk at the San Diego dive shop, [Ocean Enterprises](#).

The focus will be to discuss a global climate phenomenon and it's potential local effects. SCCOOS also wants to know what El Niño means to you, so please come and join us for an interesting discussion.



Photo credit: Steve Zylus, OC Register

This event is **FREE** to attend. Please RSVP to [Jodie Booras](#) by email or phone, (858) 565-9474 Ext. 122 to reserve your spot.

Mike Crossley of Newport Beach cruises Pomona Ave. in Costa Mesa in his kayak to see where he can be of service during heavy flooding in the area due to a Pacific Storm on December 6, 1997

## Call to Action for Citizen Scientists: We Need Your Storm Related Pictures!!

In preparation of what could potentially be stormy winter, SCCOOS is asking for your storm related photos. We want to start a photo repository to try to track the local effects of El Nino in Southern California. Please, please, please—while you are snapping your pictures from your phone we ask that you take an extra minute and email photos to

**[stormsurf@sccoos.org](mailto:stormsurf@sccoos.org)**

Thanks SO much for your cooperation and for you ongoing support of Ocean Observing Systems!!

