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USC Sea Grant // Community Science, MPAs, Summer Science Lab

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January 2016



The Urban Tides Community Science Initiative is Growing!

Read a guest blog about our [beach walk and training](#) in La Jolla Shores.

It's your coastline! Whether you are at the beach once a month, or daily, your observations will help SoCal communities plan for the future impacts of sea level rise. #UrbanTides [Learn more...](#)

Newly Published Papers on MPAs

A study in Harvard's [Negotiation Journal](#) and a [companion report](#), by USC



Sea Grant and CONCUR Inc., analyze the stakeholder experience in designing MPAs in Southern California.

[Learn more...](#)



High School Summer Science Lab on Catalina Island

It's never too early to dream about summer. Applications are now available for this year's program running July 7-13. It's free for students!

[Learn more...](#)



In the Media: Urban Tides Beach Walk and Training

Twenty volunteers - and KPBS San Diego - joined us on the recent beach walk and training. [See story...](#)



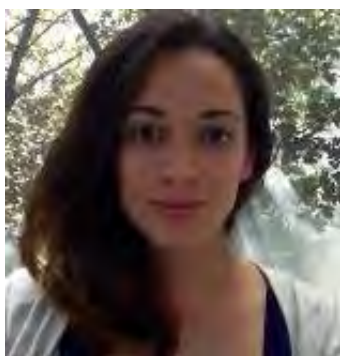
Join us February 20 at Citizen Science Forum

Hosted at the Aquarium of the Pacific, we will be presenting on our [Urban Tides](#), [HABWatch](#), and [Naturalist](#) programs. Get involved! [Learn more...](#)



AdaptLA Webinar: Coastal Storm Modeling Results for Orange County

Hear about the latest sea level rise and coastal storm flood hazard projections for the Orange County region. This archived webinar presents initial 100-year storm results with four scenarios of sea level rise. [Learn more...](#)



Knauss Fellowship

Congratulations to our 2016 Knauss Fellow, Yareli Sanchez! She is a legislative fellow in U.S. Senator Tammy Baldwin's office. Applications for 2017 are due February 12!

[Learn more...](#)

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USC Sea Grant // \$1M Awarded for New Research

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February 2016



USC Sea Grant Awards Nearly \$1M to new marine research projects!

Projects include work on toxins in coastal ecosystems, angling stress on gamefish, storm water quality, fish production associated with oil platforms, and oxygen deficiency in the Santa Monica Basin. [See projects...](#)



\$3 Million Available for Aquaculture

NOAA Sea Grant has announced up to \$3M for new aquaculture research projects. Deadline to apply is **March 10!** [Learn more...](#)

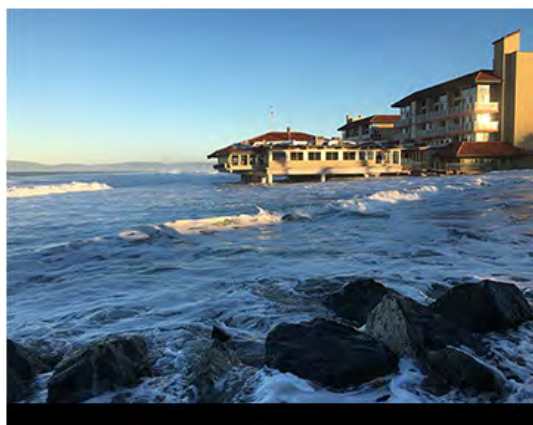
New Aquaponics K-12 Program

In a new partnership, we have

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combine aquaculture with hydroponics to grow fresh food in the classroom.

[Learn more...](#)



Urban Tides Beach Walk Planned for San Diego

Join us **March 5** at Torrey Pines State Reserve for the next Urban Tides beach walk and training. We will take photos and talk with Dr. Sarah Giddings from Scripps about the impacts of tides and erosion.



It's your coastline! Whether you are at the beach once a month, or daily, your observations will help SoCal communities plan for the future impacts of sea level rise. #UrbanTides

[Learn more...](#)



AdaptLA CoSMoS Webinars

Webinars for all sub-regions in Southern California are now available. Hear about the latest sea level rise and coastal storm flood hazard projections. [Learn more...](#)

High School Summer Science Lab on Catalina Island

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March 25 for this year's program running July 7-13. It's free for students!

[Learn more...](#)

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USC Sea Grant // CA Adaptation Forum, Methanol

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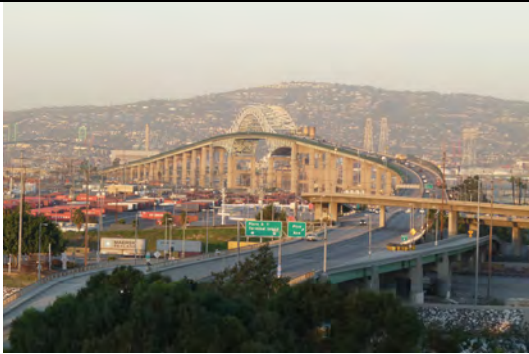
March 2016

**California Adaptation Forum****Sept 7 - 8, 2016**

Save the date! Join us in Long Beach to discuss, debate and consider how we can most effectively respond to the impacts of climate change. USC Sea Grant is part of the planning team and a sponsor for this forum. **Session proposals are due April 4.** #CAF16

[Learn More...](#)**Blog: Methanol Shows Great Potential as a Maritime Fuel**

Methanol is emerging as a leading alternative fuel that is both cleaner and less expensive than diesel. New research at USC is looking into sustainable sources. [Learn more...](#)

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Adaptation Starts Here

"Cities are where the action is" and subnational government's play a powerful role in advancing climate adaptation. USC Sea Grant is part of the Mediterranean City Climate Change Consortium. [Learn more...](#)



Walking North: Lessons in Citizen Science

We welcome a guest blog this month by Scripps graduate student Astrid Hsu as she explores San Diego coastlines as part of the Urban Tides Community Science Initiative. [Learn more...](#)



Ocean Day California

USC Sea Grant and California Sea Grant met with legislators this month to highlight public investments in ocean and coastal research in California. Research helps to solve pressing issues and leads to science-informed policy and advancements in climate resiliency, ecosystem restoration, water quality improvements and more.

[Learn more...](#)

The First 50 Years of Sea Grant

Throughout 2016, NOAA Sea Grant is celebrating 50 years of putting science

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at our [first 40 years](#) in California. [Learn more...](#)

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USC Sea Grant // Slideshow of coastal flooding, erosion

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April 2016



Video Slideshow: Urban Tides captures coastal flooding & erosion

From San Diego to Malibu, this video reveals the impacts of high tides and winter storms along our coast. All images are from Urban Tides community scientists - *Thank You!*

[See video...](#)

Blog: Microbes & Fish Poop

Lettuce, kale, spinach... students are exploring urban farming through a new aquaponics program. See how they plant and build a new tank at Port of Los Angeles High School.

[Learn more...](#)**AdaptLA Webinar**

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about the Los Angeles Basin Study: Unlocking the Future of Stormwater Capture. [Learn more...](#)



Santa Monica Community Workshop

We were pleased to be a part of this Local Coastal Program Update event, talk with residents, and provide the latest science on sea level rise and adaptation planning. [Learn more...](#)



NOAA Climate Stewards Workshop

USC Sea Grant helped lead a two-day workshop at the Aquarium of the Pacific to develop climate literacy among educators. The event combined presentations and field experiences. [Learn more...](#)



Community Science Initiative URBAN TIDES

First Urban Tides Newsletter

Catch up on the latest news from Urban Tides! We have [updates from researchers](#), [sea level rise talking points](#), and much more. [View newsletter...](#)

Sea Grant Knauss Fellowship

Throughout 2016, NOAA Sea Grant is

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communities. This month we profile recent Knauss Fellows. [Learn more...](#)

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USC Sea Grant // Research Project Updates

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May 2016

This month we are highlighting progress from four research projects that USC Sea Grant funds around Southern California. Please click through to see updates and photos. Next month, we will highlight a few more!



Follow Expedition Updates!

USC Sea Grant's Education Programs Manager Linda Chilton is on her way to South Africa to join the *R/V JOIDES Resolution's* School of Rock. This immersive program will explore ocean cores and climate connections May 29 – June 6. Follow [@USCSeaGrant](#) on Twitter for updates and photos! [Learn more...](#)

Research Update: How do estuaries respond to extreme weather?

This winter's El Niño provided many opportunities for data collection,

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for weeks. [Learn more...](#)



Research Update: Self-Cleaning Aquaculture Tanks

New technology has been rigorously tested, modified, and re-tested to improve functionality and efficiency of self-cleaning aquaculture tanks using two different species of marine fish.

[Learn more...](#)



Research Update: Citizen Scientists Monitor Sandy Beaches

This project has developed and implemented a protocol for sandy beach monitoring by trained volunteer citizen scientists. [Learn more...](#)



Research Update: Designing Better Sand Berms to Protect Beaches

Pilot testing of the MoBERM tool by municipal and citizen scientists was successful and high quality data was collected at several locations.

[Learn more...](#)

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Article: Urban Tides Advances Community Resilience

Our Urban Tides Community Science Initiative is a featured project on the national Sea Grant website. The community-based science effort helps build knowledge and resilience to sea level rise. [Read story...](#)



We Love Teachers!

We celebrated Teacher Appreciation Week at Meadows Elementary School in Manhattan Beach with marine science activities and virtual reality. Fun fact: Linda Chilton began her teaching career at Meadows and one of our 'mini' Sea Granters is a 1st grader!



Sea Grant Coastal Resilience

Check out **three** of our coastal resilience projects on a new story map! Throughout 2016, NOAA Sea Grant is celebrating 50 years of putting science to work for America's coastal communities. [Learn more...](#)

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USC Sea Grant // Climate Survey, Bioblitz, Research Updates

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June 2016



2016 California Climate Adaptation Needs Assessment Survey

A survey is underway of nearly 2700 coastal professionals to assess how they are preparing for the impacts of climate change. How are communities meeting this challenge? What barriers do they face? [Learn more...](#)



School of Rock: Ocean cores and climate connections

What an adventure! Check out Linda Chilton's blogs and beautiful photos from South Africa onboard the drilling vessel Joides Resolution as part of the School of Rock. [Learn more...](#)

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2016 CALIFORNIA ADAPTATION FORUM

Join us Sept. 7-8 at the 2nd California Adaptation Forum! We are presenting and leading several workshops. Workshop topics include vulnerability assessments, overcoming adaptation barriers, how to engage youth in climate change adaptation, and results from our Climate Adaptation Needs Assessment Survey. Registration is now open! [Learn more...](#)



AdaptLA Workshop

Preliminary coastal hazard modeling results were presented at a workshop as part of Regional AdaptLA. Local communities are providing feedback in preparation for full results that will be released this fall. [Learn more...](#)



Bioblitz at Pelican Cove

We celebrated World Oceans Day by leading a bioblitz to document coastal biodiversity at the Pelican Cove marine protected area in Palos Verdes.

[See photos!](#)

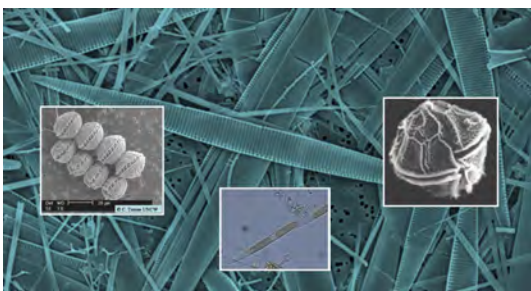
Research Update: Economic Impacts of Moorage Marinas

Sea Grant funded research has determined that the economic value of moorage marinas, and marina-related

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annually in Washington State.

[Learn more...](#)



Research Update: Toxic Algae

A USC Sea Grant funded study finds that global change may increase the prevalence, size and impacts of toxic algal blooms. [Learn more...](#)



2017 Knauss Fellows Announced

Five applicants from USC Sea Grant have been selected as 2017 Knauss Fellows! They will be placed with a legislative or executive host office this November, and begin their fellowships in February 2017. [Learn More...](#)



Sea Grant Coastal Tourism

Summer brings an increase in ray stings along SoCal beaches. Do you know the stingray shuffle? This is just one example of our work connecting science to management to the public: **The Baywatch Boogie and the Stingray Shuffle.** [Read story...](#)

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USC Sea Grant // The Power of the People, Summer Science Lab

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July 2016

The Urban Mariner
USC Sea Grant's Urban Ocean Report
Summer 2016

Dr. Sarah Giddings (on the sand) explains how high tide combined with storms can cause damage to infrastructure. Credit: Astrid Hsu

The Power of the People

Community-based science enriches data gathering and strengthens the relationship between researchers and the public

According to Newton's laws of physics, a person cannot be in two places at one time. This simple fact has severely limited observation-driven science research. A researcher (and perhaps a couple graduate students) only can gather as many data points as they physically can with their own eyes and hands. I'm sure there is not a graduate student out there who has not, at one time, wished she could clone herself!

With the prospect of cloning still a distant pipe dream, some research teams are now turning to community-based science to increase their data-gathering capacity. Community-based science, also referred to often as "citizen science," is a type of research that relies on interested members of the public to be trained to observe and record data points. Projects that need data points across a vast geographic area with many time points can benefit greatly from this type of community-inclusive data gathering. Essentially, in this type of research, more people means more data.

In this issue

- 1 The Power of the People
- 3 Community Science Projects
- 8 First Person: Linda Chilton
- 9 Interview: Brie Iatarola

The Power of the People

Our summer issue of the Urban Mariner is here! Find out how to get involved in SoCal community science projects that bring together scientists and community members to create opportunities for dialogue and new perspectives around some of our most pressing ocean and coastal issues.

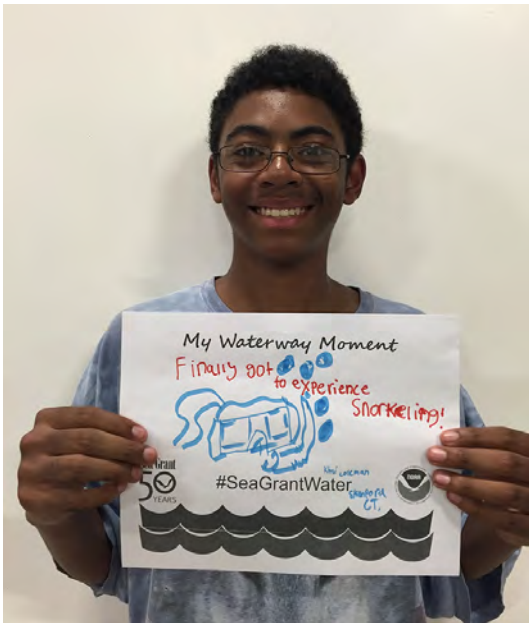
There is also an essay by Linda Chilton, *Why I'm Passionate about Community-based Science*, and an interview with Urban Tides volunteer Brie Iatarola. [Learn more...](#)

Summer Science Marine Lab

See photos and daily blog posts from students who participated in the High School Marine Science Lab experience on Catalina Island. Led by USC Sea

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snorkeled, kayaked and much more. It was great to see these amazing students learn, grow, and make lifelong friends in just one week! [Learn more...](#)



Watershed Moments

As part of Sea Grant's 50th anniversary, we're bringing a human touch to water by highlighting our favorite water moments. We've collected more than 20 moments from staff and students. You can contribute your favorite moment by posting on social media and tagging #SeaGrantWater.

[See photos!](#)

Don't forget!

California Adaptation Forum

Join us Sept. 7-8 at the 2nd California Adaptation Forum! We are presenting and leading several workshops. Workshop topics include vulnerability assessments, overcoming adaptation barriers, how to engage youth in climate change adaptation, and results

[Subscribe](#)[Share ▼](#)[Past Issues](#)[Translate ▼](#)The logo for the California Adaptation Forum, featuring the words "CALIFORNIA ADAPTATION FORUM" in blue, stacked vertically.

now open! [Learn more...](#)



2016 California Climate Adaptation Needs Assessment Survey

A survey is underway of nearly 2700 coastal professionals to assess how they are preparing for the impacts of climate change. How are communities meeting this challenge? What barriers do they face? [Learn more...](#)

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USC Sea Grant // Virtual Reality Sea Level Rise

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August 2016



Visualize Rising Seas through the Santa Monica Pier 'Owl'

Will Santa Monica's iconic beaches be underwater in 30 years? USC Sea Grant helped develop a new virtual reality installation that will be on the Santa Monica Pier from September 19 to November 8, 2016. The interactive display reveals how sea level rise and big storms will affect the Santa Monica shoreline - flooding the beach and infrastructure by the end of the century. The Owl's 180-degree rotating audio-visual platform offers a glimpse into the future - Stop by and check it out!

[Learn More...](#)



**Los Angeles Coastal California
Naturalist Training**

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California Naturalists! The course brings together traditional and scientific knowledge about coastal regions to be used to foster effective interpretive programs. See photos and class materials. [Learn more...](#)



In the Media - Sea Level Rise with a Twist

Which L.A. beach homes will be underwater in 40 years? We worked closely with The Hollywood Reporter to share new flood maps, the science behind sea level rise, and how to interpret this information for Southern California. [Read article...](#)



Initial Results: 2016 California Climate Adaptation Needs Assessment Survey

We hope to see you Sept. 7-8 at the 2nd California Adaptation Forum in Long Beach. We are presenting and leading several workshops, including sharing initial results from our Climate Adaptation Needs Assessment Survey. [Learn more...](#)

The Power of the People

Don't miss our latest issue of the Urban Mariner! Find out how to get involved in

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Summer 2016



Dr. Sarah Giddings (on the sand) explains how high tide combined with storms can cause damage to infrastructure. Credit: Astrid Hsu

The Power of the People

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USC Sea Grant // We're Hiring!

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September 2016



We're Hiring a Program Specialist!

Join the USC Sea Grant team and help extend our scientific research to communities, government agencies, and a wide range of stakeholders. We're dedicated to solving our most pressing urban ocean problems. Apply by Friday, October 7th! [Learn more...](#)



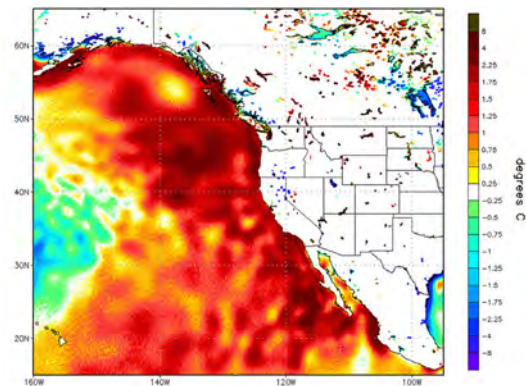
Dr. Juliette Hart Joins USGS

USC Sea Grant's Marine and Climate Science Specialist, Dr. Juliette Finzi Hart, has accepted a new position as an oceanographer with the U.S. Geological Survey. We congratulate Dr. Hart on this next step in her career and look forward to a stronger partnership with USGS!

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OWL Teacher Workshop

Join the first group of educators in exploring virtual reality 'Owls' as tools to engage students in climate change adaptation. The workshop is on Oct 19th and will focus on the Santa Monica shoreline. View flyer [here](#), and RSVP [here](#).



New! Researchers Find Toxic Algae Thrive in a Warmer Ocean

Research funded by USC Sea Grant reveals a new challenge to healthy coastal ecosystems - toxic algae outcompetes all others at warmer temperatures. [Read more...](#)



Blog: Engaging Youth in Climate Adaptation

Creating pathways to integrate youth voices into adaptation planning is crucial for meeting the challenges of climate change. [Read more...](#)

In the Media: Fukushima Radiation

Researchers from the scientific campaign Kelp Watch 2015 have confirmed that **no** detectable Fukushima radiation entered the kelp ecosystem along the West Coast. USC

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In the Media: Honoring the Ocean

The Los Angeles Marine Protected Area Collaborative held its first 'Honor the Ocean' event where Chumash elders and local experts shared the value of the ocean. [Read more...](#)



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USC Sea Grant // Ready - Set - Collect!

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October 2016

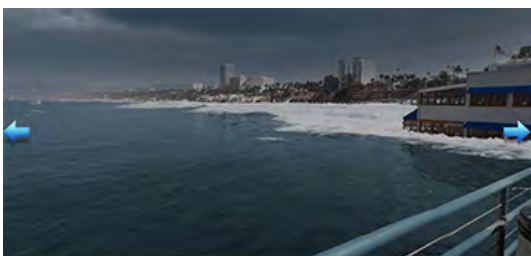
Urban Tides: Ready - Set - Collect!

We are very excited to kick off this season of Urban Tides in coordination with a USGS/NASA/JPL flight collecting radar imagery over the Southern California coastline. We need volunteers to come out to the beach and take photos of king tides **during the flight**. This is citizen science in action! These images will provide invaluable on-the-ground comparisons with the radar imagery and be used to help calibrate sea level rise models.

USGS has selected [priority locations](#) for photos from Santa Barbara to the Tijuana estuary. Please use this [form to RSVP](#) to take photos at a specific location. The radar flight will take place the morning of **either** November 14 or 15 – the date will be confirmed closer to the flight based on conditions. We will follow up with everyone to confirm

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with participants! [Learn more...](#)



Visualize Rising Seas on the Santa Monica Shoreline

Will Santa Monica's iconic beaches be underwater in 30 years? USC Sea Grant helped develop new virtual reality visualizations that reveal how sea level rise and big storms will affect the Santa Monica shoreline - flooding the beach and infrastructure by the end of the century. View them online or smart phone <http://mobileowl.co/samo/> - and visit the Owl installation on the Santa

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rotating audio-visual platform offers a glimpse into the future - Stop by and check it out! [Learn more...](#)



OWL Sea Level Rise Educator Guidelines

USC Sea Grant developed educator guidelines to integrate use of the new Owl sea level rise visualizations into classroom and field learning. Explore virtual reality as a tool to engage students in climate change adaptation! [View guidelines...](#)



Dr. Sarah Giddings (on the sand) explains how high tide combined with storms can cause damage to infrastructure. Credit: Astrid Hsu

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USC Sea Grant // New Fellowships, Videos & Staff!

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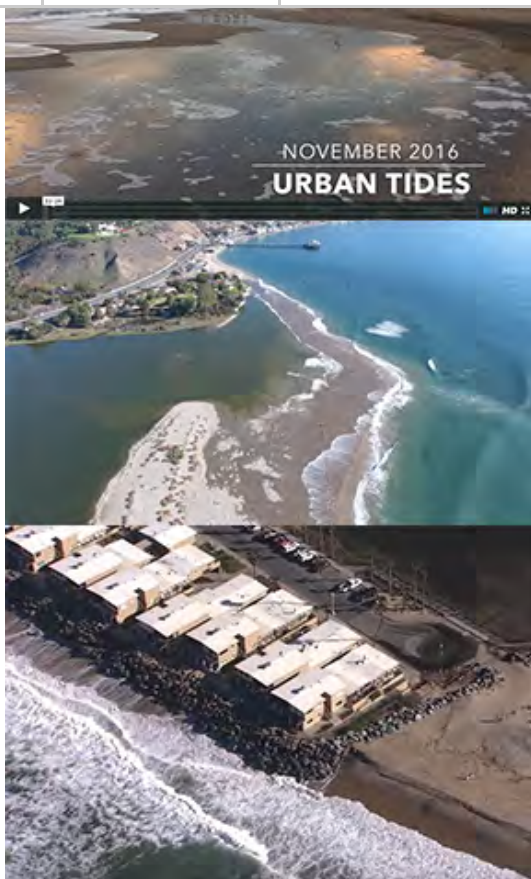
November 2016

**Welcome Nick Sadrpour!**

We are pleased to welcome our newest team member, Nick Sadrpour! Nick joins the USC Sea Grant team as our Science, Research & Policy Specialist. Already part of the Sea Grant family, Nick previously served as a California Sea Grant Fellow with the Ocean Protection Council. [Learn more...](#)

Urban Tides Kicks Off - New Videos!

More than 50 Urban Tides volunteers headed to their local beaches from Santa Barbara to the Tijuana Estuary to photograph king tides on Nov 14. The data collection season kicked off in coordination with a USGS/NASA/JPL flight collecting radar imagery over the

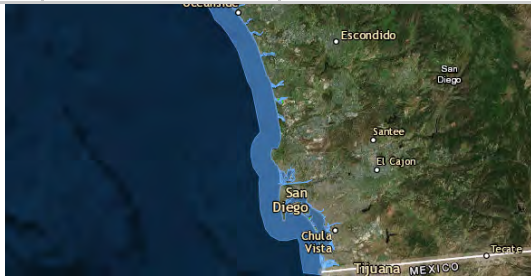
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flight and these images provide valuable on-the-ground comparisons with the radar imagery and will be used to calibrate sea level rise models. More than 250 photo records were contributed! View a video slideshow of highlights ([here](#)). USC Sea Grant also took drone video of the king tide at Malibu Lagoon ([here](#)), and SciFly shared aerial footage of San Diego ([here](#)). More about Urban Tides ([here](#)).



2017- 2018 Fellowship Opportunities

Application are due in January & February for: Knauss Marine Policy Fellowship ([here](#)); NOAA Coastal Management Fellowship ([here](#)); NMFS/Sea Grant Fellowship in Marine Resource Economics ([here](#)); NMFS/Sea Grant Fellowship in Population and Ecosystem Dynamics ([here](#)). Applications must be submitted through the sponsoring state Sea Grant office. Contact Phyllis Grifman (grifman@usc.edu) with questions and applications.

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Materials are now available from the recent workshop detailing final results from the USGS's Coastal Storm Modeling System (CoSMoS) for the San Diego region. Learn how to access and use this sea level rise forecasting tool ([here.](#))



NOAA Day - Aquarium of the Pacific

NOAA Day at the Aquarium of the Pacific exceeded expectations with 8,279 people attending! Education Programs Manager Linda Chilton led an educator workshop in the morning and conducted outreach to Aquarium visitors throughout the day. Many NOAA programs participated sharing ocean and coastal science. See more photos of the event ([here](#)).



In the Media: Virtual Reality 'Owls'

Will Santa Monica's iconic beaches be underwater in 30 years? The [Owls](#) are a pair of freestanding viewers that reveal how sea level rise and coastal storms will affect the Santa Monica shoreline. Since landing on the Santa Monica Pier earlier this month, more than 3,500 people have glimpsed the future. [Media stories](#) by KPCC, LA Weekly, and others have helped share the project. Stop by and see - the Owls will be on the Pier through December. The visualizations can also be seen via



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Headwaters to Ocean Conference

Save the date! The Headwaters to Oceans Conference (H2O) is coming to UC Irvine May 23-24, 2017. It will address key social, economic, and environmental impacts on our natural systems. [Learn more...](#)

USC Sea Grant contributes to solving the problems of the urban ocean, while recognizing the opportunities for coastal commerce, recreation, and improving the quality of life in coastal regions such as Southern California.

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USC Sea Grant // Beach Walk, Fellowship Deadlines, AdaptLA Results

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December 2016

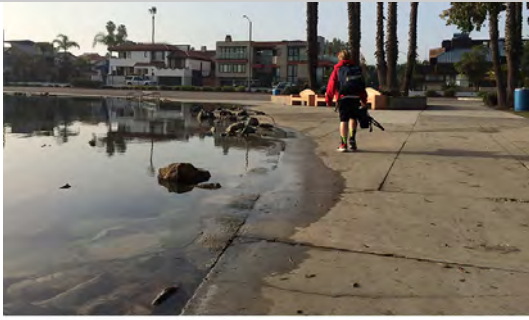


The World Around Us

“You can move people, but can you move a culture?” USC Sea Grant is part of a new class at Port of Los Angeles High School that gives students a global perspective on climate refugees from small island nations being swallowed by rising seas. [Read story...](#)

Urban Tides Beach Walk January 11

King tides are coming again on January 10, 11, 12! Join us at Torrance Beach, 7:30 am, for a community beach walk to take photos. We'll chat about sea level rise, the benefits of natural shorelines, and the latest scientific modeling results that project sea level rise and coastal storms. Additional

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View a video slideshow of photos from November ([here](#)) and drone video of the king tide at Malibu Lagoon ([here](#)).

We are grateful for all the Urban Tides volunteers who continue to support and grow the program!



2017- 2018 Fellowship Opportunities

Applications are due in **January &**

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Management Fellowship ([here](#)); NMFS/Sea Grant Fellowship in Marine Resource Economics ([here](#)); NMFS/Sea Grant Fellowship in Population and Ecosystem Dynamics ([here](#)). Applications must be submitted through the sponsoring state Sea Grant office. Contact Phyllis Grifman (grifman@usc.edu) with questions and applications.



AdaptLA Webinar: Coastal Hazards Modeling Results for Los Angeles

View a recording of the Dec 6 webinar presenting final coastal hazard modeling results for the Los Angeles Region [here](#). An executive summary and technical reports will be available soon.



2017 Knauss Fellows Placements

Congratulations to all five of the new USC Sea Grant Knauss Fellows who were placed in offices in Washington D.C. for 2017! Placements included: Office of the Assistant Secretary of Navy; Office of Marine Conservation in the State Department; NOAA Climate Program Office and HUD Resilience group; NOAA's National Ocean Service Headquarters; and NOAA's Office of

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Sustainable Development Tour

Two USC Sea Grant programs - AdaptLA and Urban Tides - are highlighted in an interactive web feature that takes viewers on a tour of sustainable development projects around the country. [View tour.](#)



Don't Miss the Virtual Reality 'Owls'

Stop by and see the Owls before they leave the Santa Monica Pier at the end of the month. Will Santa Monica's iconic beaches be underwater in 30 years? The [Owls](#) are a pair of freestanding viewers that reveal how sea level rise and coastal storms will affect the Santa Monica shoreline. More than 4,500 people have already glimpsed the future. The visualizations can also be seen via computer and smart phone: <http://mobileowl.co/samo/>



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~ From all of us at USC Sea Grant ~

Linda E. Rigney *[Signature]* *[Signature]* *[Signature]*
[Signature] *[Signature]* Linda Chilton Charlotte Sturman Holly Rindge

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