



# CALIFORNIA SEA GRANT



February 2018

California Sea Grant is one of 33 Sea Grant college programs and is administered by Scripps Institution of Oceanography at the University of California, San Diego.



Net pens are often used to raise finfish offshore.  
Credit: NOAA National Ocean Service

## Workshops help guide expansion of offshore aquaculture in California


California Sea Grant convened a series of workshops on offshore finfish aquaculture to train state resource managers and regulatory agencies on current best practices and better prepare them to manage offshore farms. These workshops, supported by NOAA Fisheries, resulted in two technical reports and the formation of a working group consisting of both public and private entities. The working group aims to harmonize federal and state agency requirements to permit offshore marine finfish aquaculture. Report available here: [aquariumofpacific.org/aquaculturereport](http://aquariumofpacific.org/aquaculturereport)

**\$2.7 M**  
Economic benefit




**55,800**  
Attendees at public and professional presentations

**9,300**  
Volunteer hours completed



Metrics reported to National Sea Grant Office in June 2017 for work completed February 2016 to January 2017



RESEARCH

EXTENSION

EDUCATION

## California Sea Grant helps the City of San Diego improve hazard resilience and water quality



Volunteers help revegetate an area with native plants to replace invasive vegetation in the City Heights community of San Diego, California. Credit: Ocean Discovery Institute

Community volunteer efforts organized by California Sea Grant and partners saved the City of San Diego an estimated \$20,822 dollars in cleanup and revegetation costs. In 2016, California Sea Grant and the California Coastal Conservancy engaged 661 community members and local decision makers in restoration and cleanup activities in the canyons connected to San Diego’s storm water system. Cleanup activities involved removal of trash and invasive plants, followed by revegetation using native plants. The project is sustainably improving hazard resilience and water quality of San Diego’s urban ecosystems through revegetation and trash removal.

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[caseagrnt.ucsd.edu](http://caseagrnt.ucsd.edu)

**“California Sea Grant provides essential scientific expertise and research capacity to help us address local management issues.”**  
- Lexie Bell, Morro Bay National Estuary Program

### Seafood Safety Monitoring



California Sea Grant’s seafood safety monitoring efforts provide timely and critical monitoring of toxic algal blooms in the Santa Barbara Channel by providing shellfish samples to state agencies for testing. In 2016, California Sea Grant helped identify a large bloom and provided shellfish samples to determine toxins were not present, which meant economically valuable fishing grounds could remain open.

### Tracking Coastal Erosion Using Lasers



In 2016, California Sea Grant-funded researchers developed a new method to study cliff erosion and anticipate future erosion impacts. The new method uses LiDAR (Light Detection and Ranging) technology which can be used to inform coastal planners on the average size and frequency of rockfall events and cliff retreat rates.

### Coho Salmon Conservation



California Sea Grant assists the conservation and recovery efforts for endangered coho salmon in the Russian River watershed. In 2016, California Sea Grant research provided justification for and post-project evaluation of a successful dam remediation project that opened up prime spawning habitat for coho salmon. The number of adult coho salmon doubled after dam remediation.