



# Monterey Bay National Marine Sanctuary

## Sanctuary Office Report



Volume 13, Number 6

A REPORT FOR THE SANCTUARY ADVISORY COUNCIL MEMBERS

REPORTING PERIOD: SEPTEMBER 24, 2016 – NOVEMBER 11, 2016

### ABOUT THE SANCTUARY

Designated in 1992, Monterey Bay National Marine Sanctuary (MBNMS or Sanctuary) is a federally protected marine area offshore of California's central coast. Stretching from Marin to Cambria, MBNMS encompasses a shoreline of 276 miles and 6,094 square statute miles of ocean.

Supporting one of the world's most diverse marine ecosystems, it is home to numerous mammals, seabirds, fishes, invertebrates and plants in a remarkably productive coastal environment. MBNMS was established for the purpose of resource protection, research, education and public use of this national treasure.

### NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) AND OFFICE OF NATIONAL MARINE SANCTUARIES (ONMS) NEWS

#### Celebrating 40 rebuilt stocks in U.S. fisheries

The U.S. has been sustainably managing our fisheries for many years. This year, we've got reason to celebrate. Not only does the Magnuson-Stevens Act (MSA)—the primary law governing marine fisheries in U.S. federal waters—turn 40, but we've also reached another significant milestone in fisheries management. We're announcing our 40th rebuilt stock—barndoor skate.

Through our dynamic, science-based management process, the U.S. has become a global leader in long-term sustainable fishery management. We continue to make progress on ending overfishing and rebuilding stocks, helping us realize significant benefits to the economy. Since 2000, we've rebuilt 40 marine fish stocks around the country, with barndoor skate in the Northeast United States as the most recent addition to the list. You will not find barndoor skate on the menu because harvesting is still not allowed.

Managers in the Northeast will determine whether barndoor can be

harvested in the future. Meanwhile, there are many rebuilt stocks that are popular seafood choices.

[http://www.nmfs.noaa.gov/sfa/publications/feature\\_stories/2016/40th\\_rebuilt.html](http://www.nmfs.noaa.gov/sfa/publications/feature_stories/2016/40th_rebuilt.html)

#### NOAA names John Armor as Director of Office of National Marine Sanctuaries

The National Oceanic and Atmospheric Administration announced today that John Armor has been selected as Director of NOAA's Office of National Marine Sanctuaries (ONMS), our nation's system of underwater parks. Mr. Armor has been acting director since May 2015. "John brings to this position a dedication to protecting these special places and a great vision for how a system of protected ocean places can impact communities throughout the nation," said Russell Callender, Assistant Administrator for NOAA's National Ocean Service. NOAA's Office of National Marine Sanctuaries serves as trustee for a network of underwater parks encompassing more than 600,000 square miles of marine and Great Lakes waters from Washington State to the Florida Keys, and from Lake Huron to American Samoa. Currently, the network includes a system of 13 national marine sanctuaries and Papahānaumokuākea and Rose Atoll marine national monuments. <http://sanctuaries.noaa.gov/news/oct16/noaa-names-john-armor-director-of-office-of-national-marine-sanctuaries.html>

#### Size of 2016 Antarctic ozone hole is nearly average, as expected

For the past 25 years, NOAA and NASA scientists have measured the size and duration of the ozone hole that forms over Antarctica every September. This year falls squarely into the middle of the pack. And that's good news. The 2016 Antarctic ozone hole proved to be just about average in every way, matching expectations of researchers who monitor this annual phenomenon. The hole in the Earth's ozone layer that forms over Antarctica each September grew to about 8.9 million square miles in 2016 before starting to recover. At its peak on September 28, the ozone hole extended across an area nearly three times the size of the continental United States. The average area of the hole observed since 1991 has been roughly 10 million square miles.

<http://www.noaa.gov/news/size-of-2016-antarctic-ozone-hole-is-nearly-average-as-expected>

## NATIONAL MARINE SANCTUARY NEWS

### **Major Coral Bleaching Event at Flower Garden Banks National Marine Sanctuary**

The Flower Garden Banks National Marine Sanctuary research team, and partners from Texas A&M University and Moody Gardens conducted a coral bleaching response cruise to East Flower Garden Bank on October 5th. Preliminary data indicate that approximately 50% of the coral colonies located in the long-term monitoring 100m x 100m study site were bleached or paling. This has the potential to be the worst coral bleaching event on record in the sanctuary. If the current warm water conditions continue, the corals may starve and die. The team will return to the sanctuary next week to continue monitoring at West Flower Garden Bank. The sanctuary's coral reefs have experienced coral bleaching in the past; however, none this severe. The long-term monitoring project is a partnership between FGBNMS and the Bureau of Ocean Energy Management. This program has been in place for over 25 years, and the repetitive photographs, taken annually, are invaluable in allowing researchers to track individual corals over time, especially through an event such as this.

### **Chesapeake Bay NERR Habitat Mapping Supported by ONMS Collaborative Center for Unmanned Technologies and NOAA Remote Sensing Division**

On 13 October 2016, the first operational flights of the new NOAA senseFly eBee UAS were conducted to support habitat mapping efforts for the Chesapeake Bay National Estuarine Research Reserve (NERR). The eBees, operated in partnership between NOAA RSD and ONMS Collaborative Center for Unmanned Technologies, were acquired via a UASPO grant to support coastal and habitat mapping requirements within the two programs. After testing and evaluation of the systems and payloads earlier in the week, personnel from RSD and CCUT traveled to Gloucester Point, VA at the request of the College of William and Mary's Virginia Institute of Marine Science (VIMS) who manage the NERR. Four 25 minute flights were conducted and over 1,100 images were collected to map the entire Catlett Island Component of the reserve which constitutes approximately 1.3 sq nmi. Flights were conducted at 400 ft AGL to provide approximately 5 cm GSD. A GPS base station was set up on site to provide Real Time Kinematic (RTK) data to the UAS. VIMS established multiple ground control points to increase accuracies and will be developing detailed habitat maps from the imagery.

### **Wrecked sailing vessel salvaged in Olympic Coast NMS**

On September 6, 2016 the USCG responded to a distress call from the S/V *Soteria*, which was disabled and taking on water in heavy weather. The sailing vessel was in the sanctuary, 17 nautical miles off the coast. The USCG determined it was not safe to tow the vessel. The USCG in communication with the *Soteria* crew concurred that the three-person crew should be evacuated. It was also determined that a boat-to-boat transfer or helicopter hoist would not be safe. USCG helicopter transferred survival suits to the *Soteria* and the crew abandoned ship one by one and were recovered by the motor life boat. The vessel was abandoned and was later sighted by the sanctuary vessel R/V *Tatoosh* grounded on Sand Point in Olympic National Park on October 9, 2016. The vessel was also reported as grounding on October 8, 2016 by park visitors. The vessel subsequently broke apart, resulting in a debris field north of Sand Point and the original grounding location. Sanctuary staff observed operations by Global Diving & Salvage, which was contracted to remove the debris. Global worked from October 25 through 27, removing the majority of the debris. The loss of smaller private and commercial fishing vessels is an ongoing management challenge for the sanctuary and other agencies. This is further complicated with the remote nature of the coast and no available local vessel assist or salvage companies.

## MONTEREY BAY NATIONAL MARINE SANCTUARY NEWS



### AND PROGRAM UPDATES



#### MANAGEMENT

##### **Monterey Bay National Marine Sanctuary Holds Advisory Council Meeting**

On October 21st, the MBNMS Advisory Council met and received a series of presentations and updates on the southern region of MBNMS, the State Dungeness Crab Working Group and Management Plan Review Council Workshop on citizen science. Actions taken included: the approval of a letter of support for the proposed California Current Conservation Complex World Heritage site nomination for which the Advisory Council did not have a majority vote and the approval of a reaffirmation of a previous plastic bag ban resolution for which the Advisory Council did have a majority vote. The next Advisory Council meeting will be on December 8th in Monterey. Sanctuary Advisory Councils are community-based advisory bodies consisting of representatives from various user groups, government agencies and the public at large. The role of the council is to provide advice to the sanctuary superintendent on the designation and/or operation of a national marine sanctuary.

#### RESEARCH AND MONITORING

##### **Montebello shipwreck added to the National Register of Historic Places**

Just south of the Monterey Bay National Marine Sanctuary boundary are the remains of the oil tanker *Montebello*. The tanker was sunk by a single torpedo fired by a Japanese submarine during World War II on December 23, 1941; just two weeks after the attack on Pearl Harbor. *Montebello* represents three different aspects of American history: the development and use of a petroleum tanker in times of peace and war; the dependence on maritime commerce to provide fuel for the industrial revolution; and growing United States military presence around the globe during World War II. The *Montebello* shipwreck and remains were added to the National Register of Historic Places on September 27, 2016. The National Register listing provides additional federal protection for the wreck site and the artifacts there. The National Register of Historic Places is the Nation's official list of cultural places considered worth preserving. Authorized by the National Historic Preservation Act of 1966, the National Register is part of a national program to coordinate and support public and private efforts to identify, evaluate, and protect America's historic and archeological resources. Properties listed in the National Register can qualify for Federal grants for historic preservation. Though adjacent to the southern boundary of MBNMS, the *Montebello* was studied as a potential oil spill threat and as a relevant historical artifact. Since 2003, National Oceanic and Atmospheric Administration's (NOAA) Office of National Marine Sanctuaries and partners have carefully characterized and mapped the shipwreck and surrounding debris. In 2011, it was determined that there is no substantial oil threat from the *Montebello* to California waters and shorelines. The *Montebello* lies in the area proposed to NOAA to become a new national marine sanctuary - Chumash Heritage National Marine Sanctuary. NOAA has accepted the site into its inventory of areas that could one day be designated as a new national marine sanctuary. Learn more about the history, and recent field research of the *Montebello* at: <http://montereybay.noaa.gov/maritime/frmontebello.html>. The wreckage of the oil tanker *Montebello* provides an opportunity to study archaeological remnants of a unique period of U.S. history. NOAA's Office of National Marine Sanctuary is committed to preserving historical, cultural and archaeological resources and seeks to increase public awareness of America's maritime heritage by conducting scientific research, monitoring, and exploration and educational programs.

##### **MBNMS Research Activity Panel Meets at Elkhorn Slough NERR**

On November 4th, the Monterey Bay National Marine Sanctuary (MBNMS) Research Activity Panel (RAP) met at Elkhorn Slough National Estuarine Research Reserve (ESNERR) in Watsonville, CA. Agenda items included: ESNERR research activities related to sea level rise monitoring; MBNMS staff involvement in long-term monitoring; RAP action plan for long-term monitoring; and summary of October Sanctuary Advisory Council meeting. The MBNMS Research Activity Panel (RAP) is a working group of the MBNMS Advisory

Council. The RAP meets six times per year, and advises SAC and sanctuary staff on basic and conservation science issues. <http://montereybay.noaa.gov/sac/rap/rapma.html>

## **RESOURCE PROTECTION**

### **Monterey Bay Cities Flushed on October 15th and 16th, 2016**

Volunteers for First Flush 2016 were trained in classroom trainings on September 7th and 8th and had an in the field practice run, the Dry Run, on September 10th. On that day all three First Flush participating organizations (San Mateo County Resource Conservation District, Coastal Watershed Council and Monterey Bay National Marine Sanctuary (MBNMS)) were able to visit all sites and take samples of dry weather flows to be compared to wet weather samples once the rains fell. After the Dry Run it is a waiting game, waiting for the rain.

During the daytime on Friday October 14th, the waiting ended for the San Mateo County RCD as they were able to get their volunteers out to sample storm drains in the Moss Beach and El Granada area. As the storm slipped southward the Coastal Watershed Council staff and volunteers were able to sample their storm drains on the evening of Saturday October 15th. The storm continued to move south and in the very early morning hours of Sunday October 16th, MBNMS was able to mobilize 33 volunteers and staff to monitor 15 storm drain outfall sites and 2 receiving water sites. Data from First Flush aids local cities in determining which watersheds require source tracking or BMP implementation. Volunteers are essential to large scale monitoring programs seeking to collect samples at the same time from many outfalls that are geographically distant. Volunteers aid in educating and communicating with the community in which they live to prevent urban runoff pollution.

### **Central Coast Action Tracker at Pajaro Compass Meeting**

The MBNMS agricultural water quality coordinator presented information on the Central Coast Action Tracker (CCAT) to the Pajaro Compass Group. CCAT is a web-based information sharing center for conservation projects being implemented on California's central coast. Sharing projects on the data-base provides an opportunity to make projects visible to a greater circle of stakeholders, to create a public learning forum for garnering information on conservation projects, and to identify partners with common interests for future collaboration. Sharing information on conservation projects happening on the California's central coast can increase public awareness, stakeholder participation in conservation efforts, and can create greater opportunity for the development of strategic partnerships.

### **Monterey Bay Central Coast Forum Brings Together 100+ Ocean Experts to Discuss Marine Protected Area**

On October 27th, the California State MPA Collaborative Network convened leading ocean experts to discuss Central Coast MPAs. This MPA Collaborative Network fosters productive partnerships between collaborative members. Monterey Bay National Marine Sanctuary staff Karen Grimmer (Monterey MPA Collaborative Co-Chair) and Lisa Uttal (Santa Cruz MPA Collaborative Co-chair) participated as panelists. Panelists representing citizen science, business and tourism outreach, policy and enforcement agencies all identified a similar theme: how to work locally to increase community awareness of marine protected areas. MBNMS is leading the way as a federal marine protected area with their longstanding Team Ocean and Bay Net programs that were held up as model citizen science programs that provide on the water and shoreline education about wildlife disturbance. A network of State MPAs are nested within the Federal MPAs like MBNMS along the California coast and provide a gold standard for the world in MPA monitoring, education and resource protection.

## **EDUCATION, VOLUNTEER AND OUTREACH PROGRAMS**

### **MBNMS Exploration Center Hosts "Saving Whales - One at a Time"**

On Wednesday, September 21 the Sanctuary Exploration Center hosted a seminar called "Saving Whales - One at a Time" with speaker Peggy Stap, founding director of the Whale Entanglement Team (Team). 50 individuals from the community attended as Stap discussed recent whale entanglement rescues around the Central Coast and

the extensive training and coordination the Team endures. The Team has seen a rise in whale entanglement cases due to marine debris and hope to minimize whale deaths with their efforts. Specialized equipment and models of common whale entanglements were also on display. The Whale Entanglement Team's work reduces the impact of marine debris and wildlife disturbances, two of Monterey Bay National Marine Sanctuary's resource management issues. Community events highlighting the Team's work brings awareness to these issues as well as whale entanglements and hope to foster future marine stewards.

### **Monterey Bay National Marine Sanctuary participates in 2016 Monterey Beach Sportsfest**

Monterey Bay National Marine Sanctuary took part in the 3<sup>rd</sup> annual Monterey Beach Sportsfest, which was packed with athletic activities in the sanctuary and celebrated healthy oceans and healthy lifestyles on Monterey's Del Monte Beach. School kids from Salinas participated in sand castle events and other fun activities, while several participants took part in athletic events throughout the weekend (SUP race, swims, volleyball). MBNMS staff were on hand with an interactive and educational booth to educate the public about the sanctuary. Events like Monterey Beach Sportsfest engage the local community in doing things in the MBNMS and heighten awareness of its presence and how to protect it.

### **Monterey Bay National Marine Sanctuary participates in National Marine Fisheries Service- SWFSC California Leatherback Day in La Jolla, CA.**

NOAA's Monterey Bay National Marine Sanctuary (MBNMS) joined NOAA's National Marine Fisheries Service - Southwest Fisheries Science Center (NMFS) and partners in their inaugural California Leatherback Turtle celebration. Lisa Uttal participated as an education and outreach panel member along with a scientist, an NGO Director, a fisherman and a fisheries manager. There were 150 people from diverse backgrounds who walked away with new knowledge and engaged in meaningful conversation about Leatherback conservation and management. A critically endangered species under the International Union for Conservation of Nature (IUCN) and an imperiled species under the Endangered Species Act (ESA), leatherbacks have been identified as a NOAA NMFS Species in the Spotlight: Survive to Thrive, an initiative that identified 8 organisms who are at risk of extinction in the near future. Leatherback turtles travel over 6,000 miles to Monterey Bay National Marine Sanctuary each year and can show up between June to October to feast on the abundant jelly populations. Significance: California Leatherbacks are part of the sanctuary ecosystem and have a critical role in the rich biodiversity and yet they are severely endangered. Educating and sharing the important leatherback science and stories with the public is critical because most people have no idea this iconic organism comes to our sanctuary each year.

### **Monterey Bay National Marine Sanctuary Exploration Center Hosts First Friday: An Art and Science Event**

On October 7, 2016 MBNMS's Exploration Center hosted a First Friday science and art event highlighting leatherback sea turtles. The event featured partnerships with local organizations and individuals such as Ocean2Table, Save our Shores, Oceana, and local artist Anastasiya Bachmanova. Over 170 First Friday attendees enjoyed live music, informational booths, Ocean2Table's pop-up local and sustainable seafood restaurant, and Anastasiya Bachmanova's art gallery with DIY block printing of leatherback sea turtles and jellies. The community was able to celebrate leatherback sea turtles and their great migration to Monterey Bay National Marine Sanctuary. Community events such as First Fridays are a perfect opportunity to bring art and science together as an innovative education tool to promote and inspire visitors to protect and conserve the health of the Monterey Bay National Marine Sanctuary.

### **Preschool Adventures at Monterey Bay National Marine Sanctuary's Exploration Center**

On Wednesday, October 12th, Monterey Bay National Marine Sanctuary's Exploration Center introduced a new weekly preschool program for families with children ages 0-5 years old. The program, called Preschool Adventures, includes story time, show-and-tell, sing-alongs and crafts to engage and connect toddlers and their

families with Monterey Bay National Marine Sanctuary. Docents and toddlers began with some familiar songs, such as the Alphabet Song, but with a marine-themed twist. Then, after reading a few short stories about the ocean and its inhabitants, children played with puppets, looked at seashells and drew and stamped marine animals onto a seascape. This is a unique way to engage young children to be curious about ocean life at such an early stage, while simultaneously allowing docents to better their interpretation skills with children. Implementing and designing new programs targeted at younger audiences is a unique way to engage young children about ocean life and the sanctuary while simultaneously allowing docents to improve their interpretation skills with children.

### **Monterey Bay National Marine Sanctuary Exploration Center Kicks off Climate Change Seminar Series**

On Wednesday, October 19th Monterey Bay National Marine Sanctuary's Exploration Center officially kicked off its climate change seminar series with presentations from Karen Grimmer, Monterey Bay National Marine Sanctuary's Resource Coordinator and Dr. Gary Griggs, Director of UCSC's Marine Science Institute. The two-hour seminar highlighted facts, current conditions, potential scenarios, and possible solutions of climate change within the sanctuary and on the central coast. 85 guests, including both volunteer docents and community members and attended the events. The next seminar will be on November 16 from 6:00 - 8:00 p.m. with presentations from Dr. Kristy Kroeker, Assistant Professor UCSC and Dr. Jim Barry, Senior Scientists MBARI. Both will discuss climate change implications within the nearshore and deep sea ecosystems. A goal of MBNMS and the Sanctuary Exploration Center is to inform and educate the public on critical issues affecting the ocean ecosystem and to inspire conservation practices. Our changing climate is a major threat to the sanctuary and the climate change seminar series encourages discussion and open dialogue about the dangers we face and possible solutions.

### **Ferrasci Ball Park Weeding Day Brings Out Neighborhood**

On Sunday October 30<sup>th</sup>, 15 volunteers from Alvarez High School's Environmental Club, neighbors from the Bolsa Knolls Neighborhood and staff from Central Coast Wetlands Group and Monterey Bay National Marine Sanctuary joined forces to weed and clean up the Ferrasci Ball Park restoration along the shores of Santa Rita Creek in Salinas CA. During the morning hours, prior to rain, volunteers were able to weed and weed-whack the entire length of the parks curbside length, on the opposite shore and into the restoration area. Volunteers filled one dumpster and another trailer full of the pulled and trimmed weeds, a clogged culvert was cleared of a 12-foot log and debris and trash was picked up. It was an incredible morning of cooperation and hard work for all involved. The Ferrasci Ball Field Restoration has been a coordinated effort between Monterey Bay National Marine Sanctuary, Central Coast Wetlands Group and the Monterey County Resources Conservation District since 2014. The restoration of the Ferrasci Ball Field area was seen as a way to engage local residents in local efforts focused on water quality, flooding and habitat improvements. Having the neighborhood group and local high school students at the weeding day further exemplifies the transformative nature of events and activities such as these that help improve water quality but also improve neighborhoods.

### **First Friday: An Art and Science Event at Monterey Bay National Marine Sanctuary Exploration Center**

On October 7, 2016 Monterey Bay National Marine Sanctuary's Exploration Center hosted a First Friday science and art event featuring the deep sea ecosystem. Attendees were tasked to build their own remotely operated vehicles (ROVs) with a disassembled kits from [SeaMATE Pufferfish](#) to learn about the technology it takes to explore the deep sea. Six kits were in use and each one consisted of a PVC frame, control system, wires to receive and deliver power, and thrusters (motors, propeller adapters, and propellers). Once the ROVs were constructed, they were then tested in the Sanctuary Exploration Center's ROV water tank and modified as appropriate. The event also included local artist Bruce Harmon's pop-up art gallery with paintings of the Monterey Canyon and other marine animals. Community events such as First Fridays are a perfect opportunity to bring art, activities and science together as an innovative education tool to promote and inspire visitors to protect and conserve the health of Sanctuary ecosystems.

## NEWS COVERAGE

### [Finders, Keepers: Five of the Best Places to Go Gem Hunting in the U.S.](http://www.smithsonianmag.com/ist/?next=/travel/hidden-gems-hunt-treasure-these-geological-sites-180957962/)

<http://www.smithsonianmag.com/ist/?next=/travel/hidden-gems-hunt-treasure-these-geological-sites-180957962/>  
Smithsonian.com-September 23, 2016

### [From Sea To Table: Monterey County Restaurants Serving Up Sustainable Fare](http://www.prnewswire.com/news-releases/from-sea-to-table-monterey-county-restaurants-serving-up-sustainable-fare-300334118.html)

<http://www.prnewswire.com/news-releases/from-sea-to-table-monterey-county-restaurants-serving-up-sustainable-fare-300334118.html>  
PR Newswire-September 26, 2016

### [Tons of trash collected along creeks, rivers, and beaches](http://www.goldenstatenewspapers.com/press_banner/tons-of-trash-collected-along-creeks-rivers-and-beaches/article_15ce0834-84fa-11e6-9b00-3bc73bf24688.html)

[http://www.goldenstatenewspapers.com/press\\_banner/tons-of-trash-collected-along-creeks-rivers-and-beaches/article\\_15ce0834-84fa-11e6-9b00-3bc73bf24688.html](http://www.goldenstatenewspapers.com/press_banner/tons-of-trash-collected-along-creeks-rivers-and-beaches/article_15ce0834-84fa-11e6-9b00-3bc73bf24688.html)  
Press Banner-September 27, 2016

### [Monterey ranked as one of the 20 healthiest U.S. towns](http://www.montereyherald.com/government-and-politics/20160930/monterey-ranked-as-one-of-the-20-healthiest-us-towns)

<http://www.montereyherald.com/government-and-politics/20160930/monterey-ranked-as-one-of-the-20-healthiest-us-towns>  
Monterey Herald-September 30, 2016

### [Monterey's Old Fisherman's Wharf's "Wonders of the Wharf Campaign" Highlights a Series of Great Events in the Upcoming Months](http://www.prweb.com/releases/2016/10/prweb13744119.htm)

<http://www.prweb.com/releases/2016/10/prweb13744119.htm>  
prweb.com-October 11, 2016

### [Floating DNA boosts Puget Sound research](http://www.kitsapsun.com/news/local/floating-dna-boosts-puget-sound-research-3e99f632-29f9-1c86-e053-0100007f57da-396737961.html)

<http://www.kitsapsun.com/news/local/floating-dna-boosts-puget-sound-research-3e99f632-29f9-1c86-e053-0100007f57da-396737961.html>  
Kitsap Sun-October 11, 2016

### [Two Carmel High students uncover a golf ball conundrum](http://www.montereycountyweekly.com/news/local_news/two-carmel-high-students-uncover-a-golf-ball-conundrum/article_11f56e54-9658-11e6-a506-032fdedee77a.html)

[http://www.montereycountyweekly.com/news/local\\_news/two-carmel-high-students-uncover-a-golf-ball-conundrum/article\\_11f56e54-9658-11e6-a506-032fdedee77a.html](http://www.montereycountyweekly.com/news/local_news/two-carmel-high-students-uncover-a-golf-ball-conundrum/article_11f56e54-9658-11e6-a506-032fdedee77a.html)  
Monterey County Weekly-October 20, 2016

### [528-foot dry dock sinks off San Francisco coast](http://www.mercurynews.com/2016/10/26/528-foot-dry-dock-sinks-off-san-francisco-coast/)

<http://www.mercurynews.com/2016/10/26/528-foot-dry-dock-sinks-off-san-francisco-coast/>  
The Mercury News-October 26, 2016

### [Thousands of golf balls found on ocean floor off Pebble Beach](http://www.ksbw.com/article/thousands-of-golf-balls-found-on-ocean-floor-off-pebble-beach/7666159)

<http://www.ksbw.com/article/thousands-of-golf-balls-found-on-ocean-floor-off-pebble-beach/7666159>  
KSBW-October 28, 2016

### [George H. Leonard: Use your vote to protect the ocean: Vote YES on Prop 67](http://www.santacruzsentinel.com/article/NE/20161029/LOCAL1/161029624)

<http://www.santacruzsentinel.com/article/NE/20161029/LOCAL1/161029624>  
Santa Cruz Sentinel-October 29, 2016

### [Coast Guard responds to dry dock taking on water offshore of San Francisco](http://en.portnews.ru/news/228778/)

<http://en.portnews.ru/news/228778/>  
PortNews-October 31, 2016

### [Dan Haifley. Our Ocean Backyard: Contested port commission election is about ocean access](http://www.santacruzsentinel.com/environment-and-nature/20161105/dan-haifley-our-ocean-backyard-contested-port-commission-election-is-about-ocean-access)

<http://www.santacruzsentinel.com/environment-and-nature/20161105/dan-haifley-our-ocean-backyard-contested-port-commission-election-is-about-ocean-access>  
Santa Cruz Sentinel-November 5, 2016

### [Student's environmental concerns earn him a 'Leader of the Future' award](http://news.yale.edu/2016/11/07/student-s-environmental-concerns-earn-him-leader-future-award)

<http://news.yale.edu/2016/11/07/student-s-environmental-concerns-earn-him-leader-future-award>  
YaleNews-November 7, 2016

**Web Site** (<http://montereybay.noaa.gov/>)

**Follow MBNMS on Facebook** (<https://www.facebook.com/MBNMS>) and **Twitter** (<https://twitter.com/mbnms>)

*Please take a few moments to peruse the site. Your feedback is greatly appreciated.  
Comments and suggestions can be sent to [andrew.white@noaa.gov](mailto:andrew.white@noaa.gov).*

## **FUN, OCEAN RELATED WEB SITES**

### **Caitlin Seaview Survey**

<http://www.caitlinseaviewsurvey.com>

### **SIMON**

<http://www.sanctuariesimon.org>

### **Seasons in the Sea**

<http://www.seasonsintthesea.com>

### **Waterlust**

<http://www.waterlust.org/about/>

### **Thank You Ocean**

<http://www.thankyouocean.org/>

### **NOAA Online Media Library**

<http://sanctuaries.noaa.gov/photos>

### **Oceans Live**

<http://oceanslive.gso.uri.edu/>

### **Office of National Marine Sanctuaries**

<http://www.sanctuaries.nos.noaa.gov/>

### **NOAA Ocean Explorer**

<http://oceanexplorer.noaa.gov/>

### **Encyclopedia of the Sanctuaries**

<http://www.ocean.com/Library/Encyclopedia/>

### **National Data Buoy Center**

<http://www.ndbc.noaa.gov/rmd.shtml>

### **National Ocean Service**

<http://www.nos.noaa.gov/>

### **National Oceanic & Atmospheric Administration**

<http://www.noaa.gov/>

### **Your Sanctuary TV**

<http://yoursanctuarytv.org/>

## **MBNMS STAFF**

**Paul Michel** – Superintendent  
**Dawn Hayes** – Deputy Superintendent

### Research

**Andrew DeVogelaere** – Research Coordinator  
**Erica Burton** – Research Specialist  
**Jennifer Brown** – SIMoN Ecosystem Scientist  
**Steve Lonhart** – SIMoN Senior Scientist  
**Chad King** – SIMoN Data Analyst

### Education

**Amity Wood** – Education and Outreach Coordinator  
**Liz Love** – Education Specialist  
**Lisa Uttal** – Exploration Center Director  
**Carolyn Skinder** – Southern Region Program Coordinator  
**Chelsea Prindle** – SEC Manager  
**Michelle Berryessa** – SEC Gift and Bookstore Manager  
**Nick Ingram** – Program Assistant (SEC)  
**Jennifer Cormier** – Program Assistant (SEC)  
**Catherine Drake** – Program Assistant (SEC)  
**Tess Bohey** – Program Assistant (CDC)

### Resource Protection

**Karen Grimmer** – Resource Protection Coordinator  
**Scott Kathey** – Regulatory/Emergency Response Coordinator  
**Sophie De Beukelaer** – GIS Analyst & Research Permit Coordinator  
**Pamela Krone-Davis** – Agriculture Water Quality Coordinator  
**Bridget Hoover** – Water Quality Protection Program Director  
**Lisa Emanuelson** – Citizen Watershed Monitoring Network Coordinator

### Program Operations

**Raymond Chisolm** – Program Specialist  
**Nichole Rodriguez** – Advisory Council Coordinator  
**Andrew White** – Network Manager and Webmaster  
**Richard Stanley** – SEC Maintenance Specialist



## **Learn More About Your Sanctuary**

The Sanctuary Office Report is produced bi-monthly by Monterey Bay National Marine Sanctuary staff in conjunction with Sanctuary Advisory Council meetings. To learn more about the Sanctuary please visit our web site at: <http://www.montereybay.noaa.gov>.

To learn more about the Sanctuary Advisory Council please visit:  
<http://montereybay.noaa.gov/sac/advisory.html>

## **The Office of National Marine Sanctuaries**

Monterey Bay National Marine Sanctuary is one of 14 marine protected areas in the National Marine Sanctuary System encompassing more than 150,000 square miles of marine and Great Lakes waters from Washington State to the Florida Keys, and from Lake Huron to American Samoa. The system includes 13 national marine sanctuaries and the Papahānaumokuākea Marine National Monument. Visit the ONMS web site at:  
<http://www.sanctuaries.nos.noaa.gov/>

## **Get involved and stay informed!**

To learn how to get involved in the Sanctuary visit:  
<http://montereybay.noaa.gov/getinvolved/welcome.html>

Sign up for the MBNMS listserv to receive email notices about upcoming Sanctuary events, and public meetings of the Sanctuary Advisory Council and Working Groups:  
<http://montereybay.noaa.gov/intro/elists.html>

## **- Contact Information -**

### **Monterey Bay National Marine Sanctuary**

99 Pacific Street, 455A  
Monterey, CA 93940  
Phone (831) 647-4201  
Fax (831) 647-4250