

GULF OF THE FARALLONES NATIONAL MARINE SANCTUARY

2ndst Quarter FY2011
January through March ~ 2011

SUPERINTENDENT'S REPORT



Farallones Sanctuary Recognizes Outstanding, Longtime Volunteers

Over 80 volunteers and partners – essential to the sanctuary's work -- were honored at the Farallones sanctuary Volunteer Appreciation Event February 25. Of an active volunteer force of over 200, the sanctuary proudly recognized 14 volunteers for 15 years of service; another ten received ten-year awards; many more hit the 5-year mark. The congressionally-recognized Beach Watch program had the most honorees, with several having conducted monthly coastal surveys for 17 years. Other honorees included longtime sanctuary supporter Tom Roth, former Senior Policy Analyst for Congresswoman Lynn Woolsey. Oceanographer John Largier, Ph. D., was named Volunteer of the Year for his work on impacts of climate change on the local marine sanctuaries, on sanctuary research projects, and on the sanctuary advisory council and various advisory committees. The Farallones sanctuary, with the development of the Beach Watch program in 1993, was the first in the ONMS to have a formal program in which volunteers serve as uncompensated employees of the federal government. Through its many volunteers and partners, the sanctuary's small staff has built capacity to accomplish work and achieve results that could not otherwise be realized. Volunteers often bring an extremely high level of expertise and experience to their *pro bono* efforts, and their dedication is exemplary.

Thank you, volunteers!



MANAGEMENT

Representative Reintroduces Sanctuary Expansion Legislation

In January Rep. Lynn Woolsey, D-Petaluma, renewed her efforts to expand Gulf of the Farallones and Cordell Bank national marine sanctuaries and thus permanently ban offshore oil drilling off much of the North Coast.

RESEARCH

Monitoring To Understand Long-Term Trends

Sanctuary Ecosystem Assessment Programs (SEA Surveys and ACCESS)

SEAS—Beach Watch

Farallones Beach Watch Data To Be Integrated into SIMoN, Google Earth Maps

A Hollings Scholarship award recipient will be working at the sanctuary this summer. She will specialize in communicating to the public data and information on protected areas and resource management issues, while balancing stakeholder needs, working on integrating Beach Watch data into Google Earth maps on the SIMoN web site. Another Hollings Scholarship award recipient will assist the sanctuary by working on data management of past SEAS data, with the goal to identify areas within the sanctuary where whales are most at risk from vessel strikes. She will bring skills and interests relating to conflict resolution, DNA purification, and sports medicine.

Gull Die-off Investigated

Science staff assisted concerned members of the public in an investigation into gull deaths within San Francisco Bay, by providing comparison data from the Beach Watch program. There has been an apparent increase in the number of dead Western Gulls seen at a specific area along the San Francisco waterfront near Pier 54. Beach Watch staff provide data from comparison beaches along the outer coast, including areas of known high mortality of Western and Glaucous-winged Gulls over the past 10 years. These data can then be used to scale and determine seasonality of the mortality event within the Bay.

Farallones' Beach Watch Team Surveys Beaches after SF Bay Oil Spill

On February 15 GFNMS received a report of a grounded barge that released a sheen of oil in San Francisco Bay that was floating toward the Sanctuary. The potential spill volume was around 500 gallons with an additional 3000 to 4000 gallons on board. Agency responders double boomed the leaking vessel and completed recovery operations 2/16/11. No additional sheening was reported. Beach Watch conducted special surveys on 2/15/11 in the vicinity of the Golden Gate and did not locate oil. Sanctuary staff received personal notifications of the spill from the US Coast Guard, NOAA Response Division staff, and CA Office of Spill Preparedness and Response indicating the high level of cooperation between the agencies.

CONSERVATION

Minimizing Risk from Oil Spills and Vessels

Keeping Current on Spill Response Technology, Techniques

Sanctuary staff attended the annual Spill Response Technology Workshop organized by CA Office of Spill Preparedness and Response on February 15-16. Use of dispersants, in-situ burning, and other technologies deployed during the Deepwater Horizon spill were discussed.

Farallones Staff, Beach Watchers, Respond to Fishing Vessel Grounding

In January Gulf of the Farallones staff responded to the grounding of a commercial crab boat, the *Phyllis J.* The vessel grounded in Half Moon Bay, south of San Francisco, with approximately 2,000 gallons of fuel on board. Sanctuary science and sanctuary association's Beach Watch staff provided on-scene representation for the sanctuary and performed a rapid damage assessment of the beach, using Beach Watch style survey methods and quantifying potential resources at risk: beach wrack removal and burial, Snowy Plover disturbance, gray whale entanglement from lost gear, and potential oiling of wildlife and sandy beach habitat from diesel spill. Resource protection staff coordinated on cleanup efforts with partner agencies including the US Coast Guard and California Department of Fish and Game. Beach Watch continued to monitor the beach for potential wildlife disturbance from clean-up efforts and debris from the vessel. The response to the grounding of the *Phyllis J.* demonstrated a successful collaboration between the Gulf of the Farallones, US Coast Guard, and California Department of Fish and Game to help protect the sanctuary by securing the vessel, removing all pollution, removing debris, and assessing potential damages.

REDUCING WILDLIFE DISTURBANCE

Protecting Breeding Seabird Colonies

Regional Aerial Patrol Guide Training at USCG Air Station Sacramento

On March 16 a training was conducted for flight crews and staff of USCG Air Station Sacramento on the use of the West Coast Region Aerial Patrol Guide and individual sanctuary regulations. GFNMS, CBNMS and West Coast Region staff jointly conducted the annual training to introduce new C130 aircraft flight crews to sanctuary regulations. Aerial patrol guides have been developed for each WCR sanctuary for use on the NOAA Twin Otter, USCG Dolphin helicopters, and USCG C130 aircraft. Good discussions were generated during the training regarding interpreting and enforcing regulations, as well as follow up on ensuring USCG compliance of sanctuary regulations and promoting a strong resource protection partnership between the two federal agencies. The network also presented another Coast Guard unit about sanctuary resources, wildlife harassment and sanctuary regulations on January 26th. The Seabird Protection Network is a program of the Gulf of the Farallones National Marine Sanctuary that works to reduce human disturbance to sensitive seabird breeding colonies along the central California coast through outreach and education.

Seabird Protection Network Presents at California Seabird Monitoring Meeting

On February 28, the Seabird Protection Network presented to the California Seabird Monitoring Meeting in Moss Landing, CA. The presentation included the background of the Network, accomplishments and the upcoming expansion of the Network. A second presentation provided an update on regulations affecting low over flight areas within the Sanctuary. Both presentations were well received.

Seabird Protection Network Connects with Monterey Birders

On March 8th, the Seabird Protection Network presented to 13 members of the Monterey Peninsula Chapter of the Audubon Society. The presentation included background on the sanctuaries, disturbances to wildlife, and how to minimize impacts on seabirds. Staff distributed outreach materials to chapter members.

Seabird Protection Network Reaches Out to San Francisco, North Bay Boaters

The Seabird Protection Network (The Network) presented information on the sanctuaries, local seabirds and ways to minimize disturbance to seabirds to 10 members of the Encinal Yacht Club on February 10th. Boaters were especially interested in the 6 zones that protect breeding seabird by closing access near the colonies. The Network also posted information on the popular SFboating.com forum to let local boaters know that seabird season has arrived. The post included recommendations to boaters about how to minimize their impact to breeding seabirds while enjoying California's coast. Close approaching watercraft, including kayaks, cause the most severe disruption of natural behavior at breeding seabird colonies. They also presented to the Marin Yacht Club on February 22.

Seabird Protection Network Collaborates with Retailers on Outreach

The Seabird Protection Network has collaborated with West Marine and REI stores in the Bay Area to bring boater outreach materials to local boaters. Small displays including an outreach poster, brochures and tide books all include information about how to minimize disturbance to seabirds while boating. Displays have been installed in three West Marine stores (Alameda, Oakland and Sausalito) and the REI store in San Francisco.

Sanctuary, Network Working to Make Pilots "Seabird-Savvy"

On March 1, the Seabird Protection Network presented to 37 pilots of the EAA Chapter 119, the Watsonville chapter of the Experimental Aircraft Association (EAA). The presentation included information about the sanctuary, seabirds, the problem with low over flights, and how pilots can prevent disturbances. Staff distributed pilot brochures and donated an informative display to the Watsonville Aviation Education Center (WAEC), where numerous pilot groups meet. Then, on March 10th, the Network presented to 12 pilots and airport staff at Hayward Executive Airport in Hayward, CA. The presentation included information about the sanctuaries, the problem of disturbances to wildlife, and how to minimize impact on seabirds when flying.

Protecting Whales, Other Marine Mammals

Surfing Accidents at Mavericks Rekindle Jetski Regulation Debate

Potential impacts of motorized personal watercraft/jetskis on wildlife such as sea otters and harbor seals, and surfer safety once again became topics of major discussion. In late January, surfer Jacob Trette was seriously injured while surfing Mavericks off Pillar Point Harbor, Half Moon Bay in the northern sector of the Monterey Bay marine sanctuary primarily managed by the Farallones sanctuary. Two very large waves pinned him down and a kayaker found his inert body floating near shore, whereupon a sports photographer on a motorized personal watercraft (MPWC, or jetski) retrieved him and brought him to shore. Trette was treated at Stanford Medical Center where he remained in a medically induced coma for several days, but eventually recovered.

Then, on March 16 an experienced big wave surfer Sion Milosky, died while surfing Mavericks when two 50-foot waves crashed over him. Despite several motorized personal watercraft in the vicinity, Milosky was not found until 15 to 20 minutes from the time he was last seen, approximately a mile from the site of the accident. Both incidents have resulted in renewed calls to overturn the sanctuary's recreational jetski regulations, despite the fact that the regulations provide for jetski use in emergency response or surf patrol by authorized agencies.

At no time have sanctuary regulations restricted public safety agencies from using jetskis for rescue anywhere in the sanctuary for emergencies threatening life, property or the environment. The sanctuary restricts their use except in certain zones, primarily due to the potential of this type of craft to harm wildlife. This policy has been the focus of extensive discussion when initial regulations were formulated, and again extensively discussed publicly as a major topic during the revised management plan review, starting in 2003.

Media Enlisted to Spread Message to Boaters: "Share The Road" with Whales!

In January communications staff worked with local media outlets to put the word out to boaters not to approach whales closer than federal guidelines recommend. The outreach resulted from the entry of a young gray whale into Tomales Bay [GFMMS] waters, remaining several weeks, and having some close and possibly dangerous encounters with small boat recreationists. Developing a responsible wildlife watching ethic and etiquette helps to ensure that wildlife is not disturbed or harmed, and that humans remain at a safe and respectful distance. Using media such as the press to broadcast this message helps give the sanctuary and NOAA overall a greater voice in the community.

MARITIME HERITAGE

Fathoming Our Past, Moving into the Future

NOAA Launches Quest in Farallones Sanctuary for Oil-laden Shipwreck

In February the NOAA research vessel *Okeanos Explorer* conducted multibeam patch tests off the West Coast in the vicinity of Gulf of the Farallones National Marine Sanctuary. Under

supervision of Maritime Heritage Regional Coordinator Bob Schwemmer, *Okeanos Explorer* crew used the ship's state-of-the-art multibeam system to locate the stern of the T/V *Puerto Rican*. The oil tanker burned and a portion sank in 1984 in approximately 1,200-1,400 feet of water. It was estimated that the stern sank with approximately 367,000 gallons of bunker fuel and 492,000 gallons of oil cargo. Side scan sonar in the early 80's found a target of the correct size in the vicinity of where the stern sank, but subsequent surveys have not been able to verify the exact location. The research team's objective is to also locate and identify other targets along the West Coast, including in San Francisco Bay.

EDUCATION & OUTREACH

Increasing Awareness of the Sanctuary

Researchers Webcast Live to Hundreds from Farallon Islands Refuge

Farallones sanctuary and other biologists conducted intertidal surveys at Southeast Farallon Island – part of the Farallon National Wildlife Refuge - while reaching out to local schools via pilot webcast project in a virtual tour of the island, otherwise off limits to the public. Over two hundred students and teachers took part, and via the internet asked questions of the researchers about their life on the islands, and the plants and animals, who represented the California Academy of Sciences and Tenera Environmental. The web cam was perched high atop the island's lighthouse, providing a panoramic gull's-eye view of the steep and rocky shores. Rocky intertidal surveys at S.E. Farallon are carried out on the islands two or three times annually. With twenty years of data, they provide a baseline and a mechanism to monitor and document any changes in ocean conditions, especially as potentially correlating to climate change

ONMS Director Attends SF Ocean Film Festival; NOAA Films Win Awards

In March at the 8th Annual San Francisco Ocean Film Festival, co-founded by the Farallones marine sanctuary, Dan Basta, Director of the Office of National Marine Sanctuaries, attended the student program and encouraged those present to utilize film as a means of communicating ocean issues. He stressed the need for cross-generational conservation efforts. Over 750 middle school and high school students from the San Francisco Bay Area attended.

NOAA films took two of only six awards made: Honors for Best Environmental Film went to Gulf of the Farallones' *Sanctuary in the Sea* by Robert Talbot; it highlighted the Gulf of the Farallones National Marine Sanctuary and Farallon National Wildlife Refuge. The Best Conservation Film Award went to *In the Wake of Giants* by Lou Douros, and featured NOAA's work in disentangling endangered humpback whales. The festival draws thousands of attendees each year.

Thousands of Students To Benefit From Science Teacher Workshops

At the National Science Teachers Association (NSTA) conference Farallones sanctuary education staff conducted multiple ocean and climate literacy workshops in San Francisco this month. Approximately 150 educators participated, with a potential to reach over 4,500 students. Presentations included information on the sanctuaries, hands-on activities, use of teaching materials, and educational resources. Topics included climate change, ocean acidification, the

ONMS system, and the education network. In addition, staff attended a special "Climate Information Session for NOAA Personnel and Partners" designed to build climate knowledge and help communicate share climate change information with relevant audiences.

Killer Whale/White Shark Documentary, Presentation

Sanctuary staff and marine biologist Carol Keiper presented to 66 members of the San Francisco Bay Chapter of the American Cetacean Society a National Geographic documentary on the 1997 'showdown' between a white shark and killer whale, incorporating footage of the incident. The whale's use of tonic immobility induced by turning sharks and rays upside down and other predatory strategies were explained. Presenters provided additional information on killer whale natural history and conservation, and sanctuary efforts to protect its white shark population. White shark conservation is a primary endeavor for the Farallones sanctuary, as it has one of the most significant populations of white sharks on the planet, all of breeding age. Killer whales also occupy an important role in the ocean ecosystem as apex predators in the marine food web.

Sanctuary/ Academy Researcher Wins Rubenstein Fellowship

Farallones sanctuary and California Academy of Sciences invertebrate expert Dr. Rebecca Johnson, a postdoctoral researcher and sea slug expert at the California Academy of Sciences, was named one of 16 Rubenstein Fellows by the Encyclopedia of Life (EOL). Johnson works with the Gulf of the Farallones National Marine Sanctuary to train tide pool naturalists at Duxbury Reef—a marine protected area in Marin County—also works as a postdoctoral researcher at the California Academy of Science's, working on exhibits and education programs. Her specialty is nudibranchs (sea slugs), but her expertise in rocky intertidal plant and animal greatly informs the Duxbury Reef naturalist program, and she assists with monitoring rocky intertidal zones at Southeast Farallon Island for the sanctuary. Collaborations with the Academy of Sciences strengthen public outreach by exposing over a million visitors annually to the sanctuary. In addition, scientific collaborations help the sanctuary pursue its scientific research objectives.

Farallones Educators Train Whale Watch Naturalists

On Tuesday March 22nd, 12 naturalists from San Francisco Whale Tours, a day-cruise operator, came to the Farallones marine sanctuary headquarters to receive training as natural history and whale watch trip naturalists. The focus of the training was an overview of the Farallones marine sanctuary, looking at the sanctuary's natural resources and mission. The goal of the program is to improve naturalists understanding of the scope of the sanctuary, so this information can be relayed to the public when the naturalists are conducting whale watching and nature tours within the sanctuary. Tuesday was the first in a series of two programs led by education and outreach staff to help SFWT naturalist become sanctuary- and ocean-literate.

Magazine Encourages Seabird-Friendly and Whale-Friendly Paddling

The Spring 2011 issue of California Kayaker featured the Gulf of the Farallones sanctuary's Seabird Protection Network as a companion article on Common Murres, several hundred thousand of which breed on the Farallon Islands. The winter issue covered paddler's "whale watching" etiquette.

Farallones Sharks & Cousins Spotlighted at Monterey Bay Aquarium

On February 12, Farallones sanctuary staff and regional staff participated in the Monterey Bay Aquarium's "Shark Days" and staffed a booth at the Aquarium talking about sharks, shark conservation and sanctuaries. Over 850 aquarium visitors stopped by to look at shark artifacts, talk about local sharks, such as the white shark, and learn more about the sanctuary program. This event was a great opportunity to increase awareness of the sanctuary program to aquarium visitors from all over, California, the U.S. and beyond.

LiMPETS—Long-term Monitoring Program & Experiential Training for Students

LiMPETS Regional Student Programs

The LiMPETS program trains middle school, high school, and other young groups to monitor the rocky intertidal, sandy shore and offshore areas of the five west coast National Marine Sanctuaries. This quarter 516 students and teachers from 14 different schools and partners in seven counties carried out LiMPETS shore surveys. This included ten in-class trainings, and individual monitoring events at multiple different monitoring sites.

On Saturday, March 26, LiMPETS staff held a training workshop for teachers interested in getting their students involved in sandy beach monitoring. Sixteen teachers from nine counties (including two teachers from Los Angeles County) attended the 6-hour workshop. Teachers received the new 5-unit LiMPETS sandy beach monitoring curriculum as well as an in-class training presentation for their students. The workshop included a field component where the teachers conducted the monitoring themselves; this was followed by sand crab dissections to look for Acanthocephalan parasites.

On Saturday, April 16, LiMPETS staff held a workshop for teachers and educators about the LiMPETS long-term dataset and how to bring data analysis activities into the classroom. Eleven teachers from seven counties attended the 4-hour workshop. Activities included a discussion about questions that can be asked of the LiMPETS dataset, followed by teachers coming up with their own questions and querying the 10+ years of LiMPETS data and online graphing tools to try to answer their questions. Also presented and discussed were data analysis activities from the new LiMPETS sandy beach and rocky intertidal curricula.

LiMPETS Hold First Science Advisory Panel Meeting

With the recent release of its five-year strategic plan, the LiMPETS (Long-term Monitoring Program and Experiential Training for Students) network has been working on one of its identified goals: to gain more scientific credibility. To aid in this process, LiMPETS has put together a nine-member science advisory panel. Members include researchers from PISCO/UCSC, MARINe, UCSB, California Academy of Sciences, SiMON, UC Berkeley, and Bodega Marine Lab. The first conference call meeting of the panel and LiMPETS staff occurred this past Monday. Discussions included the usefulness of the LiMPETS dataset, identifying ways to increase the effectiveness of LiMPETS monitoring, and utilizing LiMPETS in California's MPA monitoring, especially in the long-term.

Assistance and backing from the scientific community helps LiMPETS gain credibility for use of its data in marine resource management and in identification of intertidal trends.

Visitor Center

The Farallones sanctuary Visitor Center educates diverse audiences of the general public along an environmental literacy continuum including developing awareness, building a knowledge base, changing behavior, and building stewardship. Drop-in visitors come from the Bay Area and all over the world. School programs include netting plankton for view under the microscope, searching for shore crabs and activities in the Visitor Center to learn about animal adaptations. Students take part in indoor as well as outdoor activities on Crissy Field Beach.

Total Drop-in Visitors: 4,730.

Crissy Field Visitor Center Special Programs included –

Plankton and Pastries: Visitor Center staff offer this hands-on public program to promote ocean literacy where participants net their own plankton for study in the tide station pier house. Participants collect their own samples and create their own slides of phytoplankton and zooplankton for a hands-on microscopic exploration of the weird and wonderful world of plankton. This quarter they presented the program to adults and young people. The popular weekend program Creature Feature was presented to twenty people of all ages. In the Salmon Public Program, participants helped the sanctuary naturalist with a salmon dissection, learned about its seagoing and rivergoing life cycle, and its conservation challenges. The White Shark Public Program instructed people on shark biology and conservation of this apex predator for which the sanctuary is famous. The Fishermen in the Classroom reaches middle-school students and teachers at the visitor center. This program highlights the maritime heritage of the San Francisco and Pillar Point fishing communities. Local fishing folk participate in the development of curriculum, and deliver the programs.

Total served:

- Plankton and Pastries: 65
- White Sharks: 55
- Salmon: 25
- Creature Features 20

At-Your-School (AYS) Programs

At Your School is an outreach program of the Gulf of the Farallones National Marine Sanctuary designed to promote environmental literacy and increase students' awareness and knowledge of coastal and marine life. It includes standards-based interactive classroom programs for kindergarten through high school students.

During the quarter, over a thousand students and their teachers from several Bay Area schools participated in *At Your School* Programs (AYS). AYS staff travel throughout the San Francisco Bay area to bring ocean education to schools in Alameda, Contra Costa, San Mateo, Marin, Santa Clara and San Francisco counties. Programs include the Sharkmobile, Crab Cab, and Webs Under Waves with curricula tailored to various grade levels.

Total served:

- Total All Programs: 1,028

Superintendent's Second FY2011 Quarterly Report January ~ March 2011

- Sharkmobile: 155
- Crab Cab: 737
- Webs Under Waves: 136

SANCTUARY 30TH ANNIVERSARY EVENT CALENDAR

Draft Updated 05/04/11-MJS

Date	Event	Location
May		
May 11	Spring lecture and excursion series Harbor Porpoises Talk at Bay Model Registration/donation requested	Bay Model, Sausalito
May 12	Sanctuary Advisory Council Meeting in Point Reyes	Red Barn Classroom, Pt. Reyes NS
May 14	Sanctuary Creature Feature Program For children and their families Registration required/Fee	Visitor Center
May 18	Spring Lecture Series Harbor Porpoises Talk in Half Moon Bay Reservation/Donation requested	
May 21 10 to noon, or 1pm to 3pm	Plankton & Pastry Program on the Pier Registration required/Fee	Visitor Center
May 21	Spring Excursion: Search for Harbor Porpoise From GG Bridge Registration Required/Fee	Visitor Center & Bridge
May 21	Endangered Species Day at GFNMS; drop-ins welcome!	Visitor Center
May 22 10 to noon, or 1pm to 3pm	Plankton & Pastry Program on the Pier Registration Required/Fee	Visitor Center
June		
June 11	Sanctuary Creature Feature Program For children and their families – Registration Required/Fee	Visitor Center
June 18 10 to noon or 1pm to 3pm	Cephalalooza! Squid Program Registration required/Fee	Visitor Center
June 25 10 to noon or	Salmonopolis! A salmon Program Registration required/Fee	Visitor Center

Superintendent's Second FY2011 Quarterly Report January ~ March 2011

1pm to 3pm		
June - TBA	Teacher Summer Institute Registration required/Fee	Sanctuary Headquarters
July		
July 5-8	Marine Science Camp with Randall Museum Registration required/Fee	Onsite
July - TBA	White Shark Naturalist Training Registration required	Sanctuary Headquarters
August		
August - TBA	Excursion – Sanctuary watershed restoration (salmon)	TBA
August 11	Sanctuary Advisory Council Meeting in Pacifica	
August 13	Sanctuary Creature Feature Program For children and their families Registration required/Fee	Visitor Center
August 23	Visitor Center Program Registration Opens	
September		
Sept - TBA	Farallones Marine Sanctuary Association Whale Watch Trip – reservations required	
Sept - 10	Sanctuary Creature Feature Program For children and their families Registration required/Fee	Visitor Center
Sept - 16	Registration opens for Sanctuary At Your School Programs	
Sept - 18	Coastal Clean-Up Day	http://www.coastal.ca.gov
October		
Oct - 2	Farallones Marine Sanctuary Association Whale Watch Trip Registration required/Fee	
Oct - 15	SharktoberFest – Visitor Center Activities	Visitor Center
November		
Nov - 5	Fall lecture – Squid with Dr. William Gilly Registration required/Fee	TBA
Nov – 5	Research Workshop (invitational)	
Nov - 10	Sanctuary Advisory Council Meeting in San Francisco	TBA
Nov - 12	Sanctuary Creature Feature Program	Visitor Center

Superintendent's Second FY2011 Quarterly Report January ~ March 2011

	For children and their families Registration required/Fee	
Nov - 12	Annual Pigeon Point Lighthouse Lighting	Pigeon Point Lighthouse
Nov - TBA	Rocky Shore Monitoring and Mouse Eradication at the Farallon Islands, live broadcast with the California Academy of Sciences	Southeast Farallon
Nov - TBA	Fall Excursion: Squid Fishing Trip Registration required/Fee	TBA
Nov - TBA	Teacher Workshop: Fisherman in the Classroom	Offsite
December		
Dec - 8	Winter Lecture: Sperm Whales with Dr. Sarah Mesnick Reservations/fee recommended	TBA
Dec - 17	Annual Pillar Point Boat Decoration	Pillar Point Harbor

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GET INVOLVED AND STAY INFORMED!

Sign up for the GFNMS listserv to receive email notices about upcoming sanctuary events and public meetings. To learn how to get involved in the sanctuary visit: <http://farallones.noaa.gov>.

To learn more about the Sanctuary Advisory Council visit:

<http://farallones.noaa.gov/manage/sac.html>

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