

**GULF OF THE FARALLONES
NATIONAL MARINE SANCTUARY
1st Quarter FY2011
October through December ~ 2010**

SUPERINTENDENT'S REPORT



Farallones Sanctuary Opens Ocean Climate Center

Representatives of government agencies, non-profit organizations, foundations, and academia attended the October 26th ribbon-cutting ceremony for the Gulf of the Farallones National Marine Sanctuary Ocean Climate Center.

Congresswoman Lynn Woolsey, NOAA Chief of Staff Margaret Spring, Superintendent Frank Dean of the Golden Gate National Recreation Area, Manager Mendel Stewart of the San Francisco Bay National Wildlife Refuge Complex; Terri Watson, Farallones Marine Sanctuary Association Executive Director; and Superintendent Maria Brown, Gulf of the Farallones National Marine Sanctuary spoke to the assembled guests.

Department of the Interior and National Ocean Service local representatives signed a Letter of Intent to work collaboratively within the Bay Area on climate change issue. The Letter of Intent operationalises, on a regional level, the newly signed Memorandum of Understanding between Interior and Commerce to coordinate and cooperate in climate related activities involving science, services, mitigation, adaptation, education, and communication.

The Ocean Climate Center is one way NOAA will deliver climate products and services on the local level with public, private, and academic partners to maximize social, economic, and environmental benefits.



Photo: Mary Jane Schramm



MANAGEMENT

Dr. Lubchenco Presents New National Ocean Policy to NOAA Staff

On October 18 Farallones sanctuary staff and other NOAA employees throughout the region joined Dr. Jane Lubchenco for an All Hands meeting to discuss the President's new National Policy for the Stewardship of the Oceans, Coasts, and Great Lakes at the Exploratorium in San Francisco. The President's new National Ocean Policy is a major milestone for NOAA and it will influence NOAA's priorities. Dr. Lubchenco outlined the plan's components, and placed emphasis on NOAA's Coastal and Marine Spatial Planning initiative.

RESEARCH

Monitoring To Understand Long-Term Trends

Tarballs Fouling Farallones Sanctuary Shores

On December 28th a Farallones Beach Watch volunteer surveyor obtained samples of tarballs extending approximately two miles along Limantour Beach in the Point Reyes National Seashore north of San Francisco. Tarballs were collected according to State of California approved forensic protocols and were sent to the state petroleum laboratory for analysis, and possible tracing back to the party responsible for the oil discharge.

Beach Watch's trained volunteers carry out methodical, regularly scheduled surveys along the Farallones and Monterey sanctuary coast. If tarballs are traced to a responsible party, samples are admissible as evidence in a court of law. This could make it possible to recover damages to restore affected wildlife and habitats.

Farallones Sanctuary Collaborating on Porpoise Range Expansion Study

At the American Cetacean Society Conference in November, sanctuary staff joined other researchers from Golden Gate Cetacean Research to present a poster on the GGCR study of the recent harbor porpoise re-population of San Francisco Bay from the Gulf of the Farallones after an absence of over six decades. Population abundance and distribution, habitat use, social behavior, calving intervals, and interactions with bottlenose dolphins are being assessed. Under federal permit, researchers have compiled a catalogue of 125 harbor porpoise, which will permit non-invasive tracking over time. Possible reasons for this range shift include low freshwater outflow from the Sacramento and San Joaquin rivers feeding into San Francisco Bay due to low rainfall and freshwater diversion, and other factors may be affecting the health and biological profile of the estuary ecosystem. The sanctuary is a co-collaborator with GGCR and other scientific groups. This is the most comprehensive photo-identification effort undertaken for this species.

Sanctuary Ecosystem Assessment Programs (SEA Surveys and ACCESS)

Joint Research Cruise Data Presented to PICES Organization

Staff from PRBO Conservation Science presented information from the collaborative ACCESS cruises to the international North Pacific Marine Science Organization (PICES) at their annual meeting in Portland this fall. PICES is an intergovernmental scientific organization established to promote and coordinate marine research in the northern North Pacific and adjacent seas. Members are Canada, Japan, and People's Republic of China, Republic of Korea, the Russian Federation, and the United States of America. Jaime Jahnke for PRBO presented data on using plankton as an indicator of ecosystem health. This improved data accessibility provides linkages between local and regional environmental and anthropogenic influences, productivity, and health of sanctuary resources, and ecosystem-level information can help identify successful management practices.

ROV Maps Deep Sea Habitats in Proposed Sanctuary Expansion Area

Science staff from NOAA's National Centers for Coastal Ocean Science and National Marine Fisheries Service conducted an in-kind-funded remotely operated vehicle (ROV) dive at "The Football," within the proposed sanctuary expansion area. The data will assist Farallones and U.S. Geological Survey staff in characterizing the benthic habitat and ground truth a small portion of the substrate maps of "The Football." Some of the initial findings will be used to provide improved target maps for future Deep Sea Coral exploration dives. In the 0.5 km transect, the initial findings included verification of substrate and habitat composition, benthic marine debris and cabling, and a variety of benthic fish (many rockfish species, Dover sole, spiny king crabs, urchins), and some interesting geologic features to be further explored. These data and video contribute to the characterization of the sanctuary and its proposed expansion area and also helps identify areas in need of additional protection under the Magnusen-Stevens Act and the Bottom Trawling and Coral Habitat Act. "The Football" is a priority dive site for deep-sea corals and sponges to be proposed for further exploration in Fiscal Year 2012.

SEAS—Beach Watch

Beach Watch data presented at the Western Society of Naturalists in San Diego

Farallones sanctuary Beach Watch coastal monitoring data was presented by a University of California at Santa Cruz student on behalf of the sanctuary at the Western Society of Naturalists in San Diego. Included was an overview of baseline studies for the newly established state marine protected areas from Pigeon Point to Point Arena. Data from the Beach Watch program are being used to support baseline assessment of human activities for a consumptive and non-consumptive uses study. Beach Watch monitoring efforts also record shorebird abundance and distribution, beach wrack qualitative assessment study, trends in mortality events of seabirds, and beached bird data for an integrated ecosystem assessment study.

CONSERVATION

Minimizing Risk from Oil Spills and Vessels

Research Staff Assist Deepwater Horizon Oil Spill Efforts

In collaboration with representatives from the State of Florida, British Petroleum, and National Parks, Gulf of the Farallones National Marine Sanctuary research staff participated in beach assessment surveys. They also trained operations supervisors and clean-up crews to discern the differences between oil, peat and other biogenic habitats. In addition, information was collected on measures that may be used to prevent collateral damages from clean-up equipment, thus preventing damages to cultural artifacts and natural resources.

Updating Places of Refuge Planning

In December staff participated in a San Francisco Area Contingency Plan - Potential Places of Refuge subcommittee meeting. The San Francisco area contingency plan for spills is being revised as part of a 2011 update. Identifying Potential Places of Refuge for damaged vessels is a complex issue requiring careful consideration of natural resources in vicinity of any site. Sanctuary involvement in this effort helps ensure that sanctuary resources are considered fully if/when such a decision needs to be made.

REDUCING WILDLIFE DISTURBANCE

Protecting Breeding Seabird Colonies

Farallones Seabird Protection Network Co-Hosts Training Workshop

After spearheading an update to the Seabird Protection Network Action Plan that included a guide to forming new chapters in other regions, network staff at Gulf of the Farallones National Marine Sanctuary reached a new milestone with the *Torch* Trustee Council to co-host a two-day training workshop. Attending the meeting in Cambria, California were representatives from the Bureau of Land Management, California State Parks, and PRBO Conservation Science. They received training needed to develop a new network chapter extending south from the Monterey Bay sanctuary to the Channel Islands sanctuary. The goal of the Seabird Protection Network is to reduce human disturbances at seabird breeding and roosting sites. The creation of this new chapter means that there will be a coordinated message and approach to reaching out to ocean and coastal users about preventing human disturbances to seabirds in a region that spans the three coastal California sanctuaries.

Proposed Low Overflight Regulation Amendment

Farallones staff worked with headquarters and other Western Region marine sanctuary colleagues regarding messaging, media and public outreach strategies surrounding a proposed amendment to existing regulations concerning low overflights. The proposed amendment, which would be noted on Federal Aviation Agency (FAA) charts, would modify existing regulatory language regarding flying motorized aircraft overflights lower than 1,000 ft. above ground level, to include the reasonable presumption that wildlife disturbance would occur. Studies carried out

in the Farallones and Monterey Bay sanctuaries concluded that of 334 reported low overflight incidents, 322 (96%) of low overflights resulted in wildlife disturbance. General and targeted outreach are being used to inform pilots of the hazards to themselves and to wildlife when flying below required minimum altitudes, and of legal consequences. The amendment will reduce danger to human safety associated with bird-strike when flocks of seabirds flush, as well as minimize risk of disturbance to the seabirds.

Feathered Friends, Boating Retailers, Help Seabird Protection Outreach

The Seabird Protection Network is partnering with West Marine stores around the Bay Area to display information about seabirds and wildlife disturbance. The displays include an outreach poster, free tide books and Seabird Aware brochures (produced in partnership with PRBO) at stores in Alameda and Oakland. Network staff also attended Monterey Bay Aquarium's Feathered Friends event and spoke with over 550 people about seabirds and disturbance. The Seabird Protection Network works to reduce human disturbance to sensitive seabird breeding colonies along the central California coast through outreach and education.

Protecting Whales, Other Marine Mammals

Vessel Impacts on Whales Working Group Established

Farallones and Cordell Bank marine sanctuary advisory councils formed a joint working group to assess impacts from vessel traffic. These waters support a high degree of shipping activity that could affect a range of sanctuary resources. The joint working group will enlist a representative stakeholder group for this collaborative process including members from the advisory councils, government agencies, the conservation community, the shipping industry, and the scientific community to investigate and analyze these issues, and develop a comprehensive report for the advisory councils.

Outreach Initiative Launched To Prevent Whale Shipstrikes

This fall several instances of whales struck by ships in just over a several week period resulted in the sanctuary's launch of an expanded vessel operator awareness initiative. Working through media, the U.S. Coast Guard, Marine Exchange, and San Francisco Bay Area ports, the sanctuary requested that vessel operators exercise extra caution where the whales were feeding. In July a young humpback whale with deep propeller marks was seen near the Farallon Islands. In September, a dead whale entered the Port of Oakland draped over the bow of a freighter. Days later a shipstruck fin whale washed up dead on Ocean Beach, and a dead blue whale was discovered not long after, along with her dead fetus, near Pescadero. Dense aggregations of the whales' preferred food, shrimp-like krill, attracted them into heavily trafficked shipping lanes.

Protecting White Sharks

Farallones Sanctuary Releases Independent Review of White Shark Research

Gulf of the Farallones National Marine Sanctuary released an Independent Review of the white sharks tagged at the Farallones, last fall, under a permit issued to Dr. Michael Domeier of the Marine Conservation Science Institute (GFNMS-2009-004). The Independent Review was conducted in response to public concern of the status of the white sharks tagged near the Farallon Islands. The Farallones Sanctuary worked with a team of independent, qualified reviewers with

expertise in shark behavior, husbandry, and/or health to carry out this review, which addresses four specific sets of questions regarding the status of the tagged sharks and recommendations to improve capture, handling and tagging methods. The results of this assessment can be accessed on the [GFNMS website](#).

Public Comment Sought on Draft Environmental Assessment of Shark Research

In September 2009 Gulf of the Farallones National Marine Sanctuary sought public comment on a draft environmental assessment to analyze the potential impacts of issuing a research permit for the attraction and approach of white sharks in the sanctuary. The purpose of the proposed study is to improve knowledge of the full migratory cycle of white sharks that seasonally visit the sanctuary. The public submitted comments on the draft environmental assessment through October 12, 2010.

DEVELOPING SOLUTIONS TO RESPOND TO CLIMATE CHANGE

Climate Change Partnership

At the October 26th the Ocean Climate Center opening, Department of the Interior and National Ocean Service (Gulf of the Farallones National Marine Sanctuary, San Francisco Bay National Estuarine and Research Reserve), U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, Point Reyes National Seashore, and US Geological Survey signed a Letter of Intent to work collaboratively on climate change issues affecting Bay Area coastal environments. The Central and Northern California Ocean Observing System, or CeNCOOS is another potential member of partnership. The establishment of this formal working relationship operationalises, on a regional level, the Memorandum of Understanding between the U.S. Department of the Interior and the U.S. Department of Commerce to Coordinate and Cooperate in Climate-related Activities Involving Science, Services, Mitigation, Adaptation, Education, and Communication. At the same event, NOAA Chief of Staff Margaret Spring announced will provide two years of funding to assess regional coastal vulnerability to sea level rise and inundation. Partner PRBO Conservation Science will develop a web-based decision support tool and interactive maps for local resource managers, planners, and decision-makers. From this, can develop informed adaptation and response strategies for anticipated impacts, and use this information for planning and management decisions such as siting and relocation of infrastructure, design of habitat restoration projects, and designation of protected habitat.

MARITIME HERITAGE

Fathoming Our Past, Moving into the Future

Finding the Sunken “Bones” of the S.S. Lewis at Duxbury Reef

The Western Regional Maritime Heritage Coordinator and Maritime Heritage Program Director are developing several scenarios on how they might map the shipwreck *S. S. Lewis*. In 1853, the *S.S. Lewis* ran aground on Duxbury Reef, through an error in navigation in thick and obscuring fog. William Tecumseh Sherman, a passenger on board, noted that the ship did not completely sink, but waves battered it to pieces as it sat on the shale reef. The *SS Lewis*, in one night, was

completely destroyed. All passengers were safely landed along with the ship's currency, mail and some baggage. Efforts are underway for further exchange of ongoing research in an effort to propose the site for the National Register of Historic Places.

EDUCATION & OUTREACH

Increasing Awareness of the Sanctuary

Academy of Sciences Opens Farallones Exhibit, Premieres Film at NightLife Event

October 21 saw the premier of the new short documentary “Sanctuary in the Sea: a Gulf of the Farallones Experience” at the California Academy of Sciences’ NightLife event. NightLife drew around 1,500 participants, and was the setting for the debut of a new academy exhibit module about sanctuary wildlife and the Farallon Islands. The film highlighted urchin diver Ron Elliott’s experiences, and follows his journey as he considers his profession, conservation, and the future of our oceans.

Hundreds of people also attended a pre-release sneak-preview of the film at Farallones Headquarters on Crissy Field Beach, and enjoyed a live concert by the psychedelic surf-rock group The Mermen during the October 9th Fleet Week

Farallones SharktoberFest Event at Academy of Sciences Reaches Thousands

On October 14 a sold out crowd of 3,000 people at California Academy of Sciences filed past the Farallones marine sanctuary’s Shark Van exhibit at the academy’s NightLife event, part of the sanctuary’s and Sea Steward’s SharktoberFest event. Sanctuary educators interacted personally with over 200 people as part of this month-long celebration of the sanctuary’s “sharky” denizens, taking place at various dates and venues in the San Francisco Bay Area. Messages included the role that sharks play in maintaining marine ecosystem health, and the need to protect white sharks, and conservation challenges.

Interpretive Stairway Leads Visitors Safely to Sanctuary, Fitzgerald Reserve

On October 27, staff from the Office of National Marine Sanctuaries, the National Marine Sanctuary Foundation, and Gulf of the Farallones National Marine Sanctuary attended the grand opening of the Seal Cove Stairway and a suite of interpretive signs at the Fitzgerald Marine Reserve south of San Francisco. The stairway provides safe access to the rocky intertidal along an otherwise difficult to access stretch of the San Mateo County coast. The project is in partnership with the California State Lands Commission and the San Mateo County Parks Department. The signage provides information on coastal wildlife, marine ecosystems, and the cultural history of the area. The sanctuary provided major funding for the bluff-to-beach staircase. Additional funds came from an oil spill settlement fund when the oil tanker *Command* leaked 3,000 tons of oil into the sanctuary, fouling beaches and killing approximately 1,500 seabirds and damaging other marine life. NOAA/Gulf of the Farallones National Marine Sanctuary is one of the fund’s trustee agencies.

Marine Protected Areas Communication Workshop Conducted in Vietnam

Sanctuary Education staff from Gulf of the Farallones, Monterey Bay and the Office of National

Marine Sanctuaries co-facilitated a Communications Training workshop for marine protected area practitioners in Vietnam. Twenty-three participants and five mentors participated in the six day workshop, October 30 to November 6, to develop communication skills, techniques and tools to build a communications plan and campaign for their marine protected areas.

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 and sandy shore along the California west coast national marine sanctuaries. This quarter 373 students and teachers from 16 different schools and partners in seven counties carried out LiMPETS shore surveys. This included ten in-class trainings, and 22 individual monitoring events at 13 different monitoring sites.

Two of these students presented a poster about the results of their long-term monitoring at this year's American Geophysical Union conference in San Francisco. For details on LiMPETS, see www.limpetsmonitoring.org

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: 4,768.

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: 60
- White Sharks: 55

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- Salmon: 30
- Fisherman in the Classroom: 80

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 394 students and their teachers from several Bay Area schools participated in *At Your School* Programs (AYS). AYS staff traveled 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:

- Sharkmobile: 86
- Crab Cab: 277
- Webs Under Waves: 31

FACILITIES

Greening the Blue Planet

In this quarter the Farallones sanctuary saw the completion and occupancy of the first major "green" structure on its campus: the 1890s-era Coast Guard Commandant's Residence has been transformed into the sanctuary's Ocean Climate Center Headquarters. Incorporated into the new building are such power-saving devices as motion-sensing light switches, dual-flush toilets, "flash" water heaters, Energy Star appliances, zoned area heating, and Insulation. Through reduced transportation and improved waste management, sanctuary staff have cut carbon emissions by an average of 0.83 metric tons carbon dioxide equivalent per person.

Also, the Visitor Center now offers paperless program registration, and reuses batteries from the adjacent historic Golden Gate Tide Station for visitor center exhibits. Aquarium creatures are 'rescued' from ships being hauled out and bottom-scraped. Specially designed solar-assisted water coolers and aquaria will be fully operational in the coming year.

FARALLONES SANCTUARY 30TH ANNIVERSARY EVENT CALENDAR

Date	Event
Jan - 8	Sanctuary Creature Feature Program For children and their families – Registration required/Fee
Jan - 22 10 to noon or 1pm to 3pm	Salmonopolis! A salmon Program For children and their families Registration required/Fee
Jan - 29	Rocky Shore Naturalists Fieldtrip Registration required
Jan - 29	Teacher Workshop: LiMPETS Introduction to Rocky Intertidal Monitoring Registration required/Fee
Jan - 29 10 to noon	Plankton & Pastry Program on the Pier Registration required/Fee
February	
Feb - 10	Sanctuary Advisory Council Meeting in Half Moon Bay
Feb - 12	Sanctuary Creature Feature Program For children and their families Registration required/Fee
Feb - 12	Shark Days at Monterey Bay Aquarium
Feb - 16	Sanctuary Rocky Intertidal Scientists live broadcast from the Farallon Islands with the California Academy of Sciences
Feb - 19 1-3 PM	Plankton & Pastry Program on the Pier Registration required/Fee
Feb 23 to April 23 on Wednesdays 6pm to 8pm & 2 Field days TBA	Rocky Shore Naturalist Training Be a Sanctuary volunteer on the Reef and at the California Academy of Sciences Registration required
Feb - 25	30th Anniversary Open House & Volunteer Appreciation Event
Feb - 26 10 to noon or 1pm to 3pm	Salmonopolis! A salmon Program Registration required/Fee
March	
March 9-13	San Francisco Ocean Film Fest
March 12	Sanctuary Creature Feature Program For children and their families

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	Registration required/Fee
March 26	Teacher Workshop: LiMPETS Introduction to Sandy Beach Monitoring Registration required/Fee
April	
April TBA	Spring lecture and excursion series Harbor Porpoises Registration required/Fee
April 9	Sanctuary Creature Feature Program For children and their families Registration required/Fee
April 16	Sharks of the Sanctuary Program Registration required/Fee
April 16	Earth Stroll at Crissy Field
April 16	Berkeley Bay Festival
April 16	Advanced LiMPETS Teacher Workshop Data Analysis Activities for the Classroom Registration required/Fee
April 23 10 to noon or 1pm to 3pm	Salmonopolis! A salmon Program Registration required/Fee
April 23	Center for the Book Earth Day Event/Squid Printing
April 29	Beach Watch Annual Research Summary Available on-line
April 29 to May 1	Point Reyes Birding Festival
May	
May 11	Spring lecture and excursion series Harbor Porpoises Talk at Bay Model Registration/donation requested
May 12	Sanctuary Advisory Council Meeting in Point Reyes
May 14	Sanctuary Creature Feature Program For children and their families Registration required/Fee
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
May 21	Spring Excursion: Search for Harbor Porpoise From GG Bridge Registration Required/Fee

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May 21	Endangered Species Day at Visitor Center; drop-ins welcome!
May 22 10 to noon, or 1pm to 3pm	Plankton & Pastry Program on the Pier Registration Required/Fee
June	
June 11	Sanctuary Creature Feature Program For children and their families – Registration Required/Fee
June 18 10 to noon or 1pm to 3pm	Cephapalooza! Squid Program Registration required/Fee
June 25 10 to noon or 1pm to 3pm	Salmonopolis! A salmon Program Registration required/Fee
June - TBA	Teacher Summer Institute Registration required/Fee
July	
July 5-8	Marine Science Camp with Randall Museum Registration required/Fee
July - TBA	White Shark Naturalist Training Registration required
August	
August - TBA	Excursion – Sanctuary watershed restoration (salmon)
August 11	Sanctuary Advisory Council Meeting in Pacifica
August 13	Sanctuary Creature Feature Program For children and their families Registration required/Fee
August 23	Visitor Center Program Registration Opens
September	
Sept - TBA	Farallones Marine Sanctuary Association Whale Watch Trip
Sept - 10	Sanctuary Creature Feature Program For children and their families Registration required/Fee
Sept - 16	Registration opens for Sanctuary At Your School Programs For information:
Sept - 18	Coastal Clean-Up Day

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October	
Oct - 2	Farallones Marine Sanctuary Association Whale Watch Trip Registration required/Fee
Oct - 15	SharktoberFest – Visitor Center Activities
November	
Nov - 5	Fall lecture – Squid with Dr. William Gilly Registration required/Fee
Nov – 5	Research Workshop (invitational)
Nov - 10	Sanctuary Advisory Council Meeting in San Francisco
Nov - 12	Sanctuary Creature Feature Program For children and their families Registration required/Fee
Nov - 12	Annual Pigeon Point Lighthouse Lighting
Nov - TBA	Rocky Shore Monitoring and Mouse Eradication at the Farallon Islands, live broadcast with the California Academy of Sciences
Nov - TBA	Fall Excursion: Squid Fishing Trip Registration required/Fee
Nov - TBA	Teacher Workshop: Fisherman in the Classroom
December	
Dec - 8	Winter Lecture: Sperm Whales with Dr. Sarah Mesnick Reservations/fee recommended
Dec – 17	Annual Pillar Point Boat Decoration Contest, Possible Open House on R/V Fulmar

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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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