



Monterey Bay National Marine Sanctuary

Sanctuary Office Report

Volume 4, Number 6



A REPORT FOR THE SANCTUARY ADVISORY COUNCIL MEMBERS

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ABOUT THE SANCTUARY

Designated in 1992, the 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, the MBNMS encompasses a shoreline of 276 miles and 5,322 square nautical 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. The 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 NATIONAL MARINE SANCTUARY PROGRAM (NMSP) NEWS

National Geographic Weekend Radio and Wild Chronicles TV to Air National Marine Sanctuary Program Stories

NOAA National Marine Sanctuary Program (NMSP) has just developed an ongoing working agreement with National Geographic Weekend Radio and Wild Chronicles TV, whereby NMSP will provide story ideas, content, footage and guests for upcoming programs produced throughout the year about our National Marine Sanctuary System and marine conservation. National Geographic weekend radio, hosted by Boyd Matson, is a brand new two-hour program airing on over 50 commercial AM and FM stations across the country every weekend. NG Weekend also airs in DC at 8PM on Saturdays on 1500 AM and 107.7 FM.

Wild Chronicles TV show, also hosted by Boyd Matson, is half hour program airing on 70% of the PBS stations nationwide. There are 42 shows per year, 6 episodes per half hour with three headline stories and 4 short pieces for each show. We will now have a direct media distribution outlet for a variety of NMSP stories through the National Geographic programming wherever their TV

shows and radio programs are broadcast in the US. We are very excited with the prospect of reaching millions of Americans every week through National Geographic's programs.

NOAA Ocean Service has Big Presence at NOAA West Event in California

The NOAA Ocean Service participated at the Aquarium of the Pacific's "NOAA West Day" to bring oceans and atmospheres to the public along with other lines offices on Saturday, November 17, 2007 in Long Beach, California. This event targeted formal and informal educators, as well as aquarium members and other walk-in guests, which provided an opportunity to meet scientists and NOAA staff, as well as participate in hands-on activities. Staff from the National Marine Sanctuary Program provided underwater interpretation from the Blue Cavern kelp forest tank, highlighting NOAA's role in providing information to the public about the ocean and atmosphere, as well as specifically highlighting the Channel Islands marine reserves and ocean conservation in general. Also, a presentation titled "Bringing Oceans into Classrooms with California's National Marine Sanctuaries" was provided as part of the special NOAA lecture series. During the NOAA mini-film fest that ran all day long, numerous videos from NOS were played in the Aquarium's theater to various audiences.

NOAA's National Marine Sanctuary Program Brings Oceans into Classrooms at the California Science Teachers Association Conference

Nearly 3,000 educators from around the State of California participated in the California Science Teachers Association's annual conference held in Long Beach, CA from October 25-28, 2007. In true partnership, the NOAA National Marine Sanctuary Program hosted a joint exhibit with the National Park Service to bring California's National Marine Sanctuaries and National Parks and Recreation Areas to science educators around the state. The sanctuary program also hosted a three-hour short course in collaboration with KQED, the PBS affiliate who brought the Jean-Michel Cousteau's Ocean Adventures series to the public. 96% of the short course participants rated the quality of the workshop in the top 25 they have ever taken, with 43% saying it was one of the top 5 workshops they have attended. 87% of the participants stated they are more likely to integrate marine science into their classroom as a direct result of this workshop. The sanctuary program also hosted three other presentations at the conference with topics ranging from the NOAA Environmental Literacy Grant funded, Animals in Curriculum-based Ecosystem Studies program to sanctuaries as living classrooms.

NATIONAL MARINE SANCTUARY NEWS

Channel Islands NMS

Christopher LaFranchi, a social scientist with Channel Islands National Marine Sanctuary, was the speaker for the October 9 and 10, 2007 “From Shore to Sea” lecture. LaFranchi discussed socioeconomic monitoring of marine reserves and shared the preliminary results of a recent study of boating activities in the Channel Islands National Marine Sanctuary and Channel Islands National Park. LaFranchi has been conducting a multi-year study in collaboration with the University of California at Los Angeles (UCLA) to document boater use patterns; boater activities such as diving, fishing, and kayaking; and economic impacts. This research will assess how boaters are responding to marine reserves designated in 2003, and will help ensure that policy decisions consider the interests of boaters. The “From Shore to Sea” lecture series is jointly sponsored by Channel Islands National Park, Channel Islands National Marine Sanctuary, and Santa Barbara Maritime Museum in an effort to further the understanding of research on the Channel Islands and surrounding waters.

Gray’s Reef NMS

The U.S. Coast Guard has authorized the Georgia Department of Natural Resources to change the designation of fish haven buoy J to fish haven buoy JY in honor of Georgia environmental activist Jane Yarn. Yarn was instrumental in getting Gray’s Reef designated as a National Marine Sanctuary and to preserving many of Georgia’s barrier islands. Gray’s Reef named its first research vessel the *Jane Yarn*. A few months ago, the Georgia DNR sank the *Jane Yarn* in J reef to provide habitat for fish, furthering Yarn’s legacy as a Georgia conservationist. Eventually, a buoy will be deployed with new markings recognizing JY reef.

Gulf of the Farallones NMS

In testimony at the November 19th Congressional Subcommittee on Coast Guard and Maritime Transportation Field Hearing in San Francisco on the Cosco Busan Oil Spill, Dr. William Connor, Chief of the National Oceanic and Atmospheric Administration (NOAA) Office of Response and Restoration HAZMAT (Hazardous Materials) Emergency Response Division, and Zeke Grader, Director of the Pacific Coast Federation of Fisherman’s Association, recognized the Gulf of the Farallones National Marine Sanctuary’s Beach Watch coastal monitoring program for its preparedness and quick mobilization of trained citizens in the oil spill response effort. They commended the advance training, which permitted rapid deployment of Beach Watch volunteers along the coast to monitor and document the oil spill and assist with response efforts.

Hawaiian Islands Humpback Whale NMS

Sanctuary and partner agency staff were taped for a 1-hour television program set for heavy rotation on Hawaii’s public access television system (OLELO). The show was devoted to improving public understanding of the value of humpback whales, the role of the sanctuary, and what measures ocean users can take to reduce vessel-whale collisions. Hawaiian Islands Humpback Whale National Marine Sanctuary superintendent, Naomi McIntosh, represented the sanctuary. Ed Lyman, sanctuary response manager, served as the collision avoidance expert, and Jeff Walters, sanctuary co-manager, served as the show’s moderator. NOAA’s Fisheries Service and other state staff also participated on the panel.

Thunder Bay NMS

On behalf of the Great Lakes Maritime Heritage Center in Alpena, MI, DOC and NOAA staff accepted a U.S. Department of Energy “2007 Federal Energy and Water Management Award--Federal Energy Showcase Winner” at an awards ceremony held on November 1st at the Omni Shoreham Hotel in Washington DC. The award was presented by the Secretary of Energy, Samuel W. Bodman, and the Assistant Secretary of Energy Efficiency and Renewable Energy, Alexander Karsner.

Dedicated in 2005, the Great Lakes Maritime Heritage Center is a landmark of sustainable construction and a symbol of community redevelopment. This “green” facility, constructed on the site of a former paper coating mill, reused 100 percent of the original building shell and 50 percent of the interior walls. Laboratory cabinets and shelving were salvaged from the mill and refurbished, and the majority of the building’s materials and furniture came from within 500 miles of the project site. New cabinetry and flooring were constructed from rapidly renewable resources. The building uses natural lighting for 75 percent of the regularly occupied spaces—90 percent with window views. Water-efficient fixtures reduce potable water use by 137,000 gallons per year. A closed loop water-based geothermal well to provide the building’s heating and cooling reduces total building energy consumption by approximately 35 percent as compared to a conventional building. The building is slated to achieve a Leadership in Energy and Environmental Design (LEED®) Gold certification. Other agencies receiving DOE awards included the Air Force, Army, Marine Corps, Navy, DOE, GSA, EPA, Forest Service, Postal Service, HHS, and USFWS.



MONTEREY BAY NATIONAL MARINE SANCTUARY NEWS AND PROGRAM UPDATES



MANAGEMENT

As part of the California Coastal and Marine Mapping Initiative, the USGS has been conducting groundtruthing operations of recently mapped seafloor in state waters off the central California coast. On September 26 groundtruthing commenced using a towed camera sled aboard the *R/V FULMAR*. Data from Ano Nuevo to Bolinas, also known as Phase I, was successfully collected. Groundtruthing operations were halted after an equipment failure on October 6 in the Phase II area (Bolinas to Pt. Arena). The umbilical tow-cable parted, leaving the sled on sandy sediment in 60 m of water near Pt. Reyes. Efforts to recover the sled are being organized by the USGS, and early termination of the project currently concludes *R/V FULMAR* support from the central coast sanctuaries.

On October 15, the *R/V FULMAR* suffered catastrophic port main engine failure when a piston rod breached the engine block. The captain and mate were not injured, and the vessel was able to transit at low speed back to Monterey. Scott Kathey and a crew of MBNMS staff aboard the *P/B SHARK CAT* guided the *FULMAR* onto her floating dock. On October 22, Scott Kathey and LT Luke Spence conducted a dive inspection of the *R/V FULMAR*'s hull and propulsion shafts and confirmed that there was no visible damage or obstruction to the hull or external propulsion components associated with the port engine failure. On November 7, the *R/V FULMAR* transited to Alameda, CA on one engine to Bay Ship & Yacht. The port main engine was removed the following day to be investigated by the dealer as to the cause of the catastrophic failure. The *R/V FULMAR* was unable to participate in the *M/V COSCO BUSAN* oil spill response in San Francisco due to the engine removal. Subsequent dry dock maintenance at this yard has been scheduled for the next few weeks.

On November 16-18, MBNMS staff and the West Coast Regional Director hosted a group of 16 Italian MPA managers as part of the NMSP initiative to develop international collaborations. The group of park managers, professors, students and NGO coordinators, led by Dr. Maurilio Cipparone, received presentations from Superintendent Paul Michel and senior leadership on site management, state and federal MPA processes, and the complex web of partnerships that assist our work. In turn, they shared information on Italian MPA management, including the challenges of dealing with a diverse, mostly terrestrial park system that protects cultural resources such as Roman relics to natural flora and fauna populations. They also received presentations from state park officials at Point Lobos and Ano Nuevo, and toured Pt Sur Lighthouse and behind the scenes at the Monterey Bay Aquarium. Sunday culminated with a whale watching trip and views of humpback whales and risso dolphins interacting. The visitors seemed genuinely impressed by the Program and we look forward to continued communications.

RESEARCH AND MONITORING

The California Coastal Commission recently held its annual amateur photography contest. Contestants can submit up to five photos for judging. Two images taken by staff in the sanctuary received Honorable Mentions and are posted on the CCC web site (<http://www.coastal.ca.gov/publiced/photos/2007/gallery1-2007.html>). In the past, winning photos have been used to produce greeting cards, a calendar, screensavers, and to illustrate CCC publications.

Recently Research Team and SIMoN staff provided high-resolution images to California Coast & Ocean (<http://www.coastandocean.org/>), a publication of the CA Coastal Conservancy. This is the second issue where California Coast & Ocean staff have used the SIMoN photo database to download images for use in the publication.



California Coastal Commission Annual Photography Contest
Honorable Mention by Steve Lonhart.

On October 15, staff met with representatives from the Center for Integrated Marine Technologies (CIMT), a member of the Central and Northern California Ocean Observing System (CeNCOOS), to discuss an on-line phytoplankton and harmful algal bloom (HAB) species identification guide. CIMT is creating a web-based guide to identify commonly occurring species in Monterey Bay. This complements efforts by the Sanctuary Integrated Monitoring Network (SIMoN) to create a species database for commonly seen mammals, birds, fishes, invertebrates and algae.

On October 16, staff reviewed digital animations of marine organisms being developed by the Entertainment Technology Corporation (EnTCo) as part of the "Wild Earth: Deep Ocean Safari" program for the NMSP. These animations will be used in a simulated experience of diving under the ocean. We reviewed several digital assets, including movies of bat rays, bat stars, blue fin tuna, common murre, garibaldi, sea lions, spot prawns, white sharks, and wolf eels.

On October 18, 20 divers from the California Department of Fish and Game assisted staff with surveys for the invasive Asian kelp *Undaria pinnatifida* in and adjacent to Monterey Harbor. Under the supervision of Rita Bunzel, the *Undaria* Management Program coordinator, CDFG and staff divers searched several areas that had high numbers of *Undaria* in previous months. Strong currents and low visibility made diving conditions marginal, but divers were able to survey all targeted areas. Very few *Undaria* were found and removed, which was not surprising since *Undaria* tends to senesce at this time of year. It is expected that new recruits of the kelp will appear in November/December.

On October 19, staff presented an overview of monitoring efforts along the central coast of California to over 30 members of MARINE, the Multi-Agency Rocky Intertidal Network. MARINE is a partnership of local, State, and Federal agencies, universities and private organizations that monitors rocky intertidal sites along the coast of California, including the islands, on a long-term basis. It represents the largest program of its kind on the west coast. Many of the over 80 sites (spaced every 10 to 15 miles along the coast) have been monitored consistently for 15-20 years using a standardized set of protocols. These data are funded by multiple partners and are entered into a common database for analysis. Continuous monitoring provides resource managers with early warnings of abnormal conditions, such as the discovery of the withering foot syndrome, which has affected black abalone across the coast.

Chad King (SIMoN GIS Analyst) attended a "Technology Transfer" meeting at the National Coastal Data Development Center at the Stennis Space Center, MS from October 23-25. Participants included the National Marine Fisheries Service, Coastal Services Center and Oregon State University. The purposes of this meeting were to: 1) demonstrate new tools developed by NCCDC that will aid in PaCOOS/PacEON data discovery and transport, 2) update on the NWFSC habitat interactive map; and 3) discuss strategies for PacEON data transfer.

Recently the SIMoN team hired a contract web programmer, Roger Sharma, to work in half-time capacity on the IOOS Observation Registry, Regional SIMoN database, and other SIMoN database projects. Roger will primarily be working remotely from his home and will visit the Santa Cruz office from time to time. Funds for this position were provided by the IOOS grant recently awarded to SIMoN, through MBSF, to continue work on the Registry project. Roger will be working with SIMoN through January '08 and have the option to extend through October '08.

Art Seavey of the Monterey Abalone Company reported a loss of thousands of red abalone farmed under the wharf in Monterey Harbor. While the die-off is over, efforts continue to determine the cause. The dates of the die-off were September 13th to the end of the month. Sanctuary West Coast Observatory data are being analyzed for temperature anomalies and ocean observatory partners are suggesting a dinoflagellate bloom.

Hugo Selbie has joined the MBNMS as a new Sea Grant Fellow. He recently graduated from Scripps with a Master of Advanced Science degree in Marine Biodiversity and Conservation. Hugo will be working on compiling fishermen's knowledge of the oceans as well as participating in Research Team projects and helping with the broader MBNMS office activities.

On October 29th, staff met with scientists from MARINE (Multi-Agency Rocky Intertidal Network) to discuss storage and management of digital photos. The Sanctuary Integrated Monitoring Network (SIMoN) has already developed a photo database, which includes metadata about who took the picture, where, and image content (e.g., species identification). MARINE has close to 200,000 images of photo plots from long-term monitoring sites along the coast of southern and central California. They are interested in developing a centralized management and storage system, along with a web-based interface to allow scientists access to this massive photo archive.

On October 30th, staff used the *R/V Fulmar's* inflatable to collect additional digital images and high-definition video in preparation for the Immersion Presents visit in March 2008. The Sanctuary Integrated Monitoring Network (SIMoN) recently acquired an underwater HD video camera system and is collecting potential B-roll footage for the IP program. SIMoN staff dove in front of Sea Studios, which

has a microwave link that will be used in March 2008 for the IP program. Although visibility was not optimal, some footage can be seen (at very low resolution) on YouTube: <http://www.youtube.com/watch?v=-Q0np5gJL40>

On October 30th, Paul Michel, Superintendent, and Andrew DeVogelaere, Research Coordinator, met with Marcia McNutt and MBARI staff to discuss ongoing collaborations. MBARI is developing an AUV designed for marine reserve monitoring, including digital images that should be available in 2009. MBARI is also sharing proposed project plans for 2008, giving the MBNMS an opportunity to suggest modifications so projects can better address MBNMS Management Plan needs.

Lisa Etherington (CBNMS) and Steve Katz (CINMS) came to the MBNMS RAP meeting as relatively new Research Coordinators, and to spend the rest of the day with the MBNMS Research Team. SIMoN expansion needs for CINMS and CBNMS were discussed, as well as opportunities to learn from the MBNMS RAP and other program procedures developed over many years at the MBNMS. Every site has much to learn from the others. There are many opportunities for program development and sharing of expertise with the ongoing development of strong science representation in west coast sanctuaries.

On November 15th, Andrew DeVogelaere met with Cheri Recchia, Director of the CalOST MPA Monitoring Enterprise. Sheri was interested in the development of the SIMoN program as the state-wide process begins for monitoring new marine reserves. There will be many opportunities for collaboration between the NMSP and CalOST.

The MBNMS Research Activity Panel met on November 16th at the Monterey Bay Aquarium. Agenda topics included connecting science to policy; Central Coast Long-term Environmental Assessment Network (CCLEAN); MPA science and process in federal waters; and the upcoming Sanctuary Currents Symposium.

On November 20, 2007, more than 250 Northern Fulmars washed up on southern Monterey Bay beaches. Beach COMBERS volunteers recorded 93 dead Fulmars on a 2.5 miles stretch of Marina Sate Beach and more than 150 Fulmars were taken to the SPCA's Wildlife Center in Monterey. The rescued birds were very sick, lethargic, and cold. Necropsies performed on some of the birds that died showed they were very thin or emaciated and that most of them were young of the year. Most had pox like lesions on the feet and in the esophagus, although not so severe a nature that it is likely to be the cause of death. Some carcasses will be tested for Avian Influenza. The Northern Fulmar, which resembles a seagull, is one of the longest-lived birds with a life span of 30 or more years. The birds breed in Alaska and Canada in the summer, wintering along the northern Atlantic and Pacific coasts. This event is apparently not related to a "mystery" spill that occurred the previous week when more that 100 seabird washed on northern Monterey Bay beaches, nor is it related to the oil that leaked into the San Francisco Bay when the COSCO BUSAN cargo ship crashed into a supporting tower of the San Francisco-Oakland Bay Bridge on November 7. However, 41 birds with dark fueled oil, consistent with the San Francisco spill, have been collected in the Monterey Bay area.

Andrew DeVogelaere (Research Coordinator) and Jean de Marniac (SIMoN Scientist) were co-authors of "Linking Technology to Research Questions and Management Objectives in the Monterey Bay National Marine Sanctuary", a poster presented at the 88th Annual Meeting of the Western Naturalist Society in Ventura, California (November 8-11, 2007). This study is a collaborative research effort of the Monterey Bay National Marine Sanctuary with the Institute for Marine Ecology at California State University Monterey Bay, National Marine Fisheries Service, and Moss Landing Marine Laboratories. The primary goals of this project in its first year include, 1) the collection of baseline data within and adjacent to new marine reserves along the central coast, 2) the exploration of sites of interest throughout the Sanctuary to continue the on-going characterization of the continental shelf, and 3) the sampling of replicate sites by a towed camera sled, a submersible, and a remotely operated vehicle to provide a detailed comparison of each platform's utility for sampling invertebrate and fish fauna along the seafloor. These and other objectives will ultimately be linked directly to MBNMS research and monitoring needs as identified in the 5-year Management Plan.

The call for abstracts for the Research Poster Session of the 2008 Sanctuary Currents Symposium was announced on November 19th. The theme of this year's symposium is the impacts of Climate Change on our Oceans and will highlight, changes and mitigation from this and other regions of the nation. Abstracts that address this theme are especially encouraged, however submissions may be from any area of research, monitoring, education, and conservation within the central California area. The deadline for abstract submission is February 25, 2008. The Sanctuary Currents Symposium and poster session will be held April 5, 2008 at CSU Monterey Bay.

Call for Research Posters
2008 Sanctuary Currents Symposium
Theme: Impacts of Climate Change on our Oceans
Saturday April 5, 2008, 8:45 am - 3 pm
California State University, Monterey Bay

The Monterey Bay National Marine Sanctuary invites the submission of abstracts for the contributed poster session at the Sanctuary Currents Symposium April 5, 2008.

The theme of this year's symposium is the impacts of Climate Change on our Oceans and will highlight, changes and mitigation from this and other regions of the nation.

Abstracts that address this theme are especially encouraged, however submissions may be from any area of research, monitoring, education, and conservation within the central California area. The text of abstracts should be no longer than 250 words.

Submit poster abstracts online at:
<http://mbnms-simon.org/posters>

Abstract Submission Deadline
Friday February 25, 2008

All questions should be directed to Hugo Sellie at the Monterey Bay National Marine Sanctuary
Hugo.Sellie@noaa.gov | 831 - 647 - 4228

More than 100 seabirds washed up on northern Monterey Bay beaches after a “Mystery spill” believed to have occurred 8 November 2007 off Moss Landing, California. The cause of the spill is a mystery, because whatever leaked into the water was gone by the time authorities realized Saturday that there had even been a spill. Beach COMBERS volunteers and other rescuers collected 88 live seabirds 19 carcasses covered with a white, waxy film that stripped their waterproofing. Some birds were sent to the California Department of Fish and Game testing center near Sacramento, where officials should be able to identify this “mystery” substance.

On November 27th, staff responded to a request from HQ to evaluate the level of support provided to the Monterey Bay National Marine Sanctuary from six service-oriented programs within NOS (CZM, Coastal Services Center, NERRS, CELCP, CICEET, and National MPA Center). Focusing on water quality programs, staff provided several examples of collaborative efforts with the Elkhorn Slough NERR. CSC also indirectly provided support to partially fund the development of oceanObs (<http://www.oceanobs.org/>) and is currently working closely with SIMoN staff on the development of the National Registry, with funding from NOAA's IOOS Program Office.

On November 28th, SIMoN staff submitted a manuscript review to the scientific journal *Aquatic Biology*. The paper focused on invasive species facilitating the further establishment and spread of additional non-native species in an estuarine environment within the Monterey Bay National Marine Sanctuary. Research staff are periodically solicited as peer-reviewers for scientific journals.

On November 29th, SIMoN staff was the invited speaker for nearly 2 hours at a weekly meeting of Save Our Shores (SOS), which is a 501(c) 3 non-profit marine conservation organization in Santa Cruz, California. The SOS mission is marine conservation through policy research, education and citizen involvement and is focused on the Monterey Bay National Marine Sanctuary. Staff provided an overview of the sanctuary program, the Sanctuary Integrated Monitoring Network (SIMoN), and a more in-depth talk about kelp forests. The 32 attendees were inquisitive and enthusiastic and will use the information as part of their outreach to the public.

On November 30th, SIMoN staff submitted, to the peer-reviewed science journal *Estuaries and Coasts*, final revisions of a manuscript focused on community-level effects of tidal exchange restrictions in Elkhorn Slough. Part of the findings presented in the paper were supported by a contract from the Monterey Bay Sanctuary Foundation through the Sanctuary Integrated Monitoring Network (SIMoN) program at the Monterey Bay National Marine Sanctuary, National Oceanic and Atmospheric Administration (NOAA). This paper is also co-authored by SIMoN Scientist Steve Lonhart.

RESOURCE PROTECTION

Paul Michel, Huff McGonigal, and Deirdre Hall met with A.G. Kawamura, Secretary of California Department of Food and Agriculture on October 10th to discuss next steps for aerial application efforts to eradicate the light brown apple moth in the area. The MBNMS recently arranged for independent monitoring of the pheromone compound and results indicate it is not toxic to marine life. Given the likelihood of drift into the MBNMS, staff issued a permit to allow for discharge.

Deirdre Hall, resource protection specialist, met with California Department of Food and Agriculture staff on October 12th to discuss future plans to conduct overflight operations in Santa Cruz county. MBNMS concerns centered on possible disturbance issues to marine mammals and seabirds in this area. It is expected that aircraft will need to turn over sanctuary waters hundreds of times within the overflight restriction zones to conduct their aerial spraying operations to eradicate the light brown apple moth in the area. The meeting concluded with CDFA staff agreeing to provide the MBNMS with a description of their overflight plans. Aerial spraying continues to be a source of local controversy. Although a judge issued a temporary restraining order on October 10th, CDFA staff are continuing to plan for the next round of spraying.

On Saturday, October 13th, the final Backyard to Bay event was held in Monterey, just outside of the Monterey Bay Aquarium. This event, paid for by the cities of Monterey and Pacific Grove and organized by both the MBNMS and the Coastal Watershed Council, focused on educating the public about proper storage of household items during the rainy season. A table was set up with common household items such as paint, cleaners, fertilizers, pest controls, and laundry detergents and coordinators spoke to the public about the dangers of these chemicals when they enter the storm drain system and reach the Monterey Bay Sanctuary.

During the week of October 15, the SIMoN Central Coast Water Quality Data Synthesis, Assessment, and Management (SAM) project facilitated incorporation of a multi-organization water quality data set to a National Marine Fisheries Service (NMFS) project. NMFS is using the Conservation Action Planning (CAP) workbook model to support species recovery plan development for Central/Southern California steelhead trout. Extensive regional field data concerning aquatic habitat and upland conditions are required to provide a quantitative assessment of steelhead trout freshwater habitat quality and the risk of upland contributions of pollution. The water quality data collated by the SAM project is a critical component of the tools that are being created by NMFS to evaluate habitat conditions.

On October 17, Bridget Hoover and Gary Conley represented the Sanctuary at the Coast and Ocean Regional Round Table (CORRT) for the south Central Coast sponsored by the Planning and Conservation League Foundation (PCLF). The primary purpose of CORRT is to initiate a regional planning process to support implementation of the Marine Life Protection Act Initiative for the South Central Coast of California. Results from the Central Coast Water Quality Synthesis Assessment and Management (SAM) Project were presented, and a discussion about how the SAM effort can tie into the CORRT process was initiated.

Deirdre Hall, Resource Protection Specialist, is currently evaluating a request by the California Department of Food and Agriculture to conduct aerial spraying within the Santa Cruz region. After conducting independent monitoring, a permit was previously issued to allow drift of the synthetic pheromone compound into the Monterey Bay. The latest request proposes operation of low flying aircraft within the overflight restriction zones. Although the information we've received remains incomplete, it appears if up to 170 individual overflight passes would be necessary over a period from November 4 - 9th.

A Draft Data Assessment Report has been produced as part of the Central Coast Water Quality Synthesis, Assessment, and Management (SAM) Project. The report contains analyses that address management questions related to the sources, status, and trends of on non-point source pollution on the Central Coast using a regionally integrated data set. In the report, some important data gaps are identified and recommendations are made for regional monitoring coordination. The Draft Data Assessment Report can be found at: http://www.mbnms-simon.org/infoShare_ftp/. Material from this report will be presented at the upcoming Sanctuary Regional Water Quality Monitoring Coordination Workshop this Thursday, November 1, in Santa Cruz.

The first steering committee meeting for the California Non Point Source Citizen Monitoring Program was held in San Luis Obispo on Monday, Oct. 22nd. The purpose of this program is to integrate citizen water quality monitoring data into California's NonPoint Source Program in order to; help the Non-Point Source Program and other state and regional programs use citizen monitoring data more effectively, fill in data gaps with citizen data and create a more robust set of water quality information for California and use citizen data to set state policy, evaluate program success and assess both status and trends. The project is a joint venture between state agencies and citizen water quality monitoring groups, and is led by Ross Clark from the California Coastal Commission, Bridget Hoover and Carolyn Skinder from the Monterey Bay National Marine Sanctuary, and Rusty Fairey from Moss Landing Marine Laboratory.

On October 24th, Bridget Hoover, Director of the Water Quality Protection Program, attended a workshop funded by the California Ocean Science Trust, entitled "Linking the Academic Community and Water Quality Regulators". This was the second of four regional focus groups being held around the state with water quality regulators and academic scientists, to discuss barriers and solutions to effective engagement and opportunities for information exchange between these two groups.

October 29th marked the last day in a weekly monitoring project for the City of Pacific Grove. A large grant gave the city the resources it needed to clean up one of its most bacteria ridden beaches, Lover's Point, by installing a storm water diversion system in the outfalls associated with the beach. During this year's dry season, all storm water in the Lover's Point drainage has been diverted to the Marina Treatment Plant. Since June, Network Coordinator Anna Holden-Martz has monitored both associated holding sumps and the adjacent oceanfront every Monday morning for bacteria; this is the same time when the county does their bacteria beach monitoring under AB411 monies. Results of the monitoring will be compared to the AB411 results and written in the final report.

Deirdre Hall, Permit Coordinator, recently completed multiple coordination efforts with the California Department of Food and Agriculture. The CDFA has applied for, and received, a permit amendment, which allows overflight operations and indirect discharge of moth pheromone compounds into the MBNMS as part of a large-scale eradication effort of the moth in the Santa Cruz area.

On October 26th, Anna Holden-Martz, Network Coordinator for the MBNMS, hosted seven students on a job shadow sponsored by CSU Monterey Bay's Recruitment In Science Education (RISE) Program. The students were interested in careers in the sciences, and the purpose of the job shadow was to expose them to the endless opportunities for employment in the sciences. Students were briefed on different jobs currently held at the MBNMS, given advice and answers on questions about college, and given hands-on experience in a water quality.

Deirdre Hall, Resource Protection Specialist, attended a meeting on October 31st, of the "Monterey Regional Water Supply Reliability Collaboration Division of Ratepayer Advocates". The goal of this group is to identify and agree on the water supply needs of the Monterey area. The group meets monthly to investigate water supply alternatives, such as a regional desalination plant, that are affordable, attainable, and minimize environmental and social impacts. Several area mayors attended this most recent meeting.

Sophie De Beukelaer, GIS Analyst, presented "How GIS is being used at the Monterey Bay National Marine Sanctuary" at the GIS Day 2007 Regional Signatories Fair on November 14, 2007 at the Monterey Institute of International Studies. The presentation focused on how nearly every program at the MBNMS is enriched by applying spatial information and analyses to research and management practices.

On November 28th, Bridget Hoover, WQPP Director, and Gary Conley, WQ Analyst, met with Mike Weber, California Coastal and Marine Initiative (CCMI) Program Officer, and State Coastal Conservancy Staff to promote sanctuary programs in the next 5-year grant-making strategy administered by the Resources Legacy Fund Foundation. The CCMI strategies coincided nicely with sanctuary priorities and included: water quality, MPA's, expansion of successful programs regionally and coastwide, capacity building and constituency building (MERITO/SIMoN/AWQA). The Water Quality Synthesis, Assessment and Management (SAM) project was discussed at length.

Emergency Response and Enforcement

At approximately 1500 hours on Friday, October 12, the 39-foot S/V MISCHIEF II ran aground on rocks in Stillwater Cove. NOAA OLE responded to the incident. The vessel had 6 people on board, but there were no serious injuries or fatalities. Four passengers waded to shore and two remained aboard. The grounding caused some hull damage, but no flooding. The vessel was insured. The owner contracted with Vessel Assist/Pacific Salvage Inc. to tow the vessel off the rocks at high tide. The extraction was completed around 2330 hours that night, and the vessel was towed to Monterey Harbor for repairs. No fuel was spilled and there were no visible signs of resource damage.

During the week of October 15, Officer Bob Yerena provided NMS Enforcement Orientation training to Officer Edwin Seui, the newly assigned OLE officer for the Territory of American Samoa. Officer Seui will provide enforcement support to the Fagatele Bay National Marine Sanctuary. Officer Yerena provided briefings and field training regarding the unique aspects of place-based enforcement activities related to Sanctuaries. Officers Yerena and Seui conducted land and sea patrols within the MBNMS during the week.

During the week of October 15, Scott Kathey and Officer Bob Yerena met separately with Antoine de Cazotte, producer of an upcoming feature film titled "Oceans". Mr. de Cazotte works for Galatee Films from France (which produced the recent film "Winged Migration") and is filming sea otters near Monterey for his present two-year film project. The meetings were held to assure that the film crew observed proper protocols when approaching sea otters in the Sanctuary. Mr. de Cazotte previewed some clips of several completed underwater segments for the film that are phenomenal. The film company will continue work in the Monterey area through the end of October.

On November 26, the U.S. District Court for Northern California entered the Consent Judgement for final settlement of the *M/V ALBION* sinking incident in the MBNMS. The 62-ft motor yacht *ALBION* sank in the MBNMS near Monterey on January 31, 2005. Due to inability by various insurers to coordinate salvage of the vessel within a reasonable time frame, the Coast Guard, in concert with NOAA, initiated partial salvage to recover fuel and hazardous materials. Under the final Consent Decree, the responsible parties will pay a total of \$1.6 million to the U.S. Government for damages arising out of the sinking. \$1,207,064 will reimburse the Oil Spill Liability Trust Fund for salvage costs incurred by the Coast Guard, and \$392,936 will reimburse the NOAA DARF for salvage costs incurred by the NMSP and for resource damage and restoration. Funds will be transferred within the next 30 days.

From November 10 to November 21, Scott Kathey, Bridget Hoover, Deirdre Hall, and Steve Lonhart provided a total of 318 hours of staff support toward NOAA's response to the *M/V COSCO BUSAN* Oil Spill in San Francisco Bay. Staff members worked in the environmental unit and joint information center at the incident command post and supported natural resource damage assessment field activities from the GFNMS office.

The MBNMS and NOAA Fisheries Protected Resources have accepted a final report by SRS Mantech that evaluates marine mammal behavior and acoustic impacts from the July 4, 2007 City of Monterey Fireworks Display. Field surveys and post survey analysis was required by NOAA Fisheries as part of an incidental marine mammal take authorization issued to the MBNMS for fireworks displays permitted by the Sanctuary.

Officer Bob Yerena is assisting the California Department of Fish and Game in the investigation of a substance in northern Monterey Bay waters that is coating and debilitating marine wildlife, particularly birds. During November 24-25, the Oiled Wildlife Care Network collected approximately 160 birds from the Monterey Bay area, adding to a growing number of birds coated with a waxy film that is affecting their buoyancy and foraging capabilities. The rehabilitated birds are responding well to cleaning and feeding.

At 0100 (PST) on Thursday, November 29, the 37-foot, wooden-hull *F/V LOU DENNY WAYNE* ran hard aground on rocks just south of Pigeon Point in the northern management area of the MBNMS. There were no fatalities. Due to ongoing GFNMS staff commitments to the COSCO BUSAN spill response in the San Francisco area, the GFNMS Superintendent requested that the MBNMS take the lead on this incident. The LOU DENNY WAYNE is uninsured and the prospective responsible party has failed to submit a written salvage plan and timetable to the MBNMS. The MBNMS has contracted with a professional salvage company to remove the vessel this week. The Coast Guard removed 285 gallons of diesel and 100 gallons of diesel/water mix from the fuel tanks of the DENNY WAYNE, leaving approximately 10 gallons of diesel in the tanks that could not be recovered. Large ocean swells are predicted to impact the shoreline at the wreck site on the evening of December 3, which are expected to demolish the remains of the vessel. The hull below the waterline has already been completely destroyed by rocks. Salvage is scheduled to begin on December 4, depending on weather and sea conditions.

EDUCATION, VOLUNTEER AND OUTREACH PROGRAMS

Multicultural Education for Resource Issues Threatening Oceans (MERITO) staff member Sonya Padron participated in the "I Taller Internacional de Areas Marinas Protegidas," at the Centro de Instrucción y Capacitación Marítima (CIMAR) in Valparaíso, Chile, October 8-13. On October 11th, Sonya delivered a presentation about the MERITO program, its products, goals, evaluations, and methods of outreach. Delegations from Ecuador, Colombia, Panama, Peru, and Chile were present to learn about the NMS's multicultural program. Sonya is participating in a fellowship funded by Partners of the Americas in Valparaíso Chile where she is facilitating the further establishment of coordination between the United States and Chilean governments and their U.S.- Chile Agreement on Environmental Cooperation between the State Department, EPA, and the government of Chile.

On October 18, 2007, Multicultural Education for Resource Issues Threatening Oceans (MERITO) staff member Sonya Padron lectured at the Centro de Investigacion Marina de Quintay (CIMARQ), a research division of the Universidad Andres Bello in Santiago, Chile. The presentation discussed the MERITO program, its products, goals, evaluations, and methods of outreach. 20 students and researchers from the facility attended the lecture. Sonya is participating in a fellowship funded by Partners of the Americas in Valparaíso Chile where she is facilitating the further establishment of coordination between the United States and Chilean governments and their U.S.- Chile Agreement on Environmental Cooperation between the State Department, EPA, and the government of Chile.

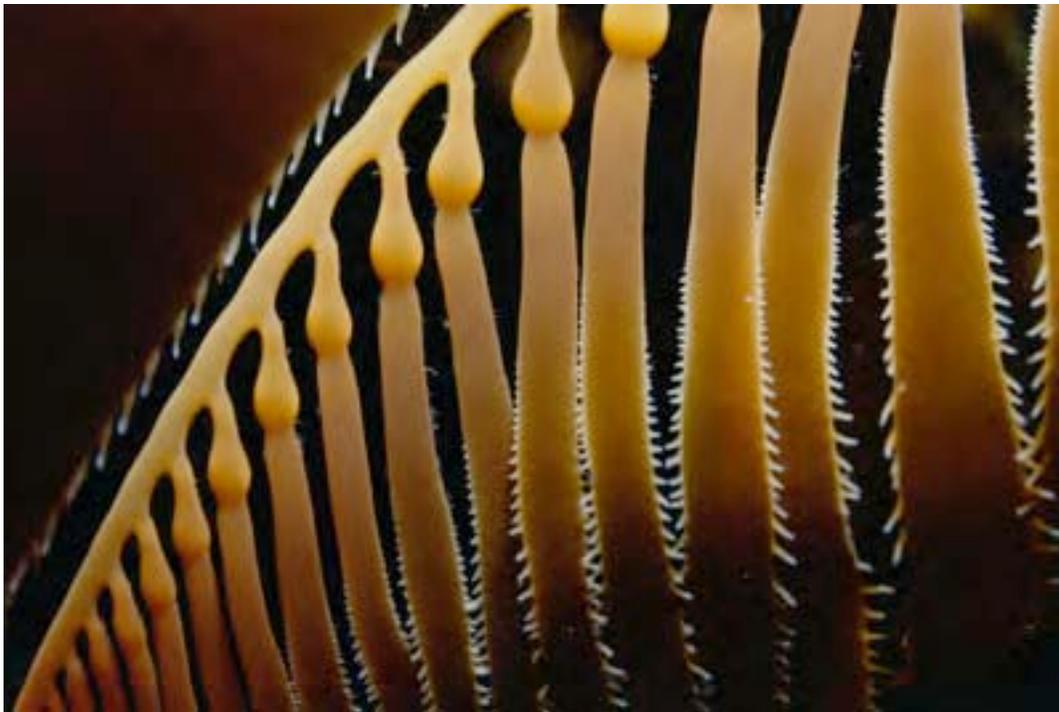
The new Monterey Bay National Marine Sanctuary Multicultural Program (MERITO) Coordinator has been selected and reported for duty on Monday, October 29. Mr. Sacha Lozano completed graduate studies in Vermont, specializing in Natural Resources (watersheds) and received his undergraduate degree in marine biology from the Universidad del Valle, Cali, Colombia. Sacha has been working with community groups in his native Colombia, France, India and Bali-Indonesia. Sacha's most recent experience is with the University's Watershed Alliance in Vermont, where he facilitated an extension program to educate students in middle and high schools about issues related to pollution and conservation in the Lake Champlain Basin. Mr. Lozano will help shape the MBNMS MERITO program and will continue to coordinate with the Channel Islands MERITO program as both grow to meet the communities' needs.

Paul Michel, Dawn Hayes and Lisa Uttal, along with staff from the City of Santa Cruz and architects Thomas Hacker joined up in a meeting to update the public on the Santa Cruz Visitor Center Project. Paul Michel welcomed the group with opening remarks. Thomas Hacker, lead architect did an overview of the most recent architect's rendition. Dawn Hayes did an exhibit overview. The public's questions ranged from inquiring about the building's height to parking and future funding for the project.

During the month of October 2007, the Monterey Bay National Marine Sanctuary's Multicultural Education for Resource Issues Threatening Oceans (MERITO) program kicked off its MERITO Academy with 114 students in Watsonville, Seaside, Salinas and Marina. During the 2007-2008 academic year, 30 MERITO Academy programs will run at 28 sites in the cities of Marina, Seaside, Salinas, Pajaro, Watsonville, Freedom and Santa Cruz to deliver the 40-week MERITO Academy after school program to an estimated 900 historically underserved audiences in the Monterey Bay Area. This sanctuary and BWET funded program provides hands-on, inquiry based watershed and ocean science experiences for 5th to 8th grade students who are predominately English language learners. Activities included an introduction to the MBNMS and a watershed model demonstration.

On October 31, 2007, Multicultural Education for Resource Issues Threatening Oceans (MERITO) staff member Sonya Padron presented at the Servicio Nacional de Pesca's Region II office in Antofagasta, Chile. The presentation discussed the MERITO program, its products, goals, evaluations, and methods of outreach. Local officials from sernapesca, University of Antofagasta, the Chilean Armada, and the Comision Nacional del Medioambiente (CONAMA) were present. Sonya is participating in a fellowship funded by Partners of the Americas in Valparaíso Chile where she is facilitating the further establishment of coordination between the United States and Chilean governments their US-Chile Bilateral on Fisheries Cooperation.

During the month of November 2007, Multicultural Education for Resource Issues Threatening Oceans (MERITO) reached 114 students from four programs in Marina, Seaside, and Salinas running the MERITO Academy After-school Program. MERITO has introduced 251 students to its MERITO Academy program during the 2007-2008 academic year. This sanctuary and BWET funded program provides hands-on, inquiry based watershed and ocean science experiences for 5th to 8th grade students who are predominately English language learners. Activities included tidepooling, water quality monitoring, a plankton tow, and hiking at Elkhorn Slough National Estuarine Research Reserve.



California Coastal Commission Annual Amateur Photography Contest Honorable Mention by Steve Lonhart

SIGNIFICANT NEWS COVERAGE

- 10/10/07 – Hmbreview.com, “Book rises from wrecks,” By Stacy Trevenon
- 10/10/07 – Cnn.com, “Quest travels to the Monterey Bay Marine Sanctuary to meet the lady they call "Her Deepness"
- 10/11/07 – San Luis Obispo Tribune, “Small fish found along coast should be reclassified as threatened and not endangered, officials say,” by David Sneed
- 10/11/07 – San Luis Obispo Tribune, “Meeting next week to discuss desalination in Cambria” by Kathe Tanner
- 10/11/07 – ChicoER.com, “Bill on invasive plants heads for vote”
- 10/11/07 – Monterey County Weekly, “Like Moths To Flame”
- 10/11/07 – Santa Cruz Sentinel, “Chemists say pesticide unlikely to cause harm”
- 10/11/07 – Fresh Plaza, “CDFA announces public meetings for Light Brown Apple Moth eradication program”
- 10/11/07 – Monterey County Herald, “Judge orders moth spraying halted, Question of whether ingredient dangerous,” By JULIA REYNOLDS and DANIEL LOPEZ, Herald Staff Writers
- 10/11/07 – SanLuisObispo.com, “Meeting next week to discuss desalination in Cambria”
- 10/17/07 – Trading Markets, “Notice of Lodging of Consent Decree”
- 10/17/07 – CA Farm Bureau, “Court action stalls air attack on LBAM”, by Kate Campbell, Assistant Editor
- 10/19/07 – San Francisco Chronicle, “Mother Ocean needs a helping hand to battle pollution, abuse”, by Jane Kay, Staff Writer
- 10/19/07 – San Francisco Chronicle, “Prodded by public, cruise lines help safeguard oceans by reducing waste”, by Spud Hilton
- 10/19/07 – San Francisco Chronicle, “Establishing state reserves is key for marine life”, by Jane Kay, Chronicle Staff Writer
- 10/19/07 – Carmel Pine Cone, “Permit granted for small desal plant”, By KELLY NIX
- 10/25/07 – Monterey County Weekly, “Spray What?”
- 10/30/07 – Santa Cruz Sentinel, “County supervisors join moth fray, vote to sue to stop moth spraying”
- 11/01/07 – US EPA, “U.S. EPA awards \$85,970 for central California coastal wetlands monitoring”, by Lisa Fasano
- 11/11/07 – AP, “Coast Guard head defends agency response,” By ERICA WERNER
- 11/11/07 – Santa Cruz Sentinel, “Robyn Bortnick: Spraying the latest in public health blunders,” Sentinel Staff Report
- 11/11/07 – AP, “Criminal Probe Opened in Bay Oil Spill,” By JASON DEAREN
- 11/11/07 – Marin Independent Journal, “Oyster farm closed after spill,” by Rob Rogers

- 11/12/07 – California Progress Report, “The 2007 San Francisco Bay Oil Spill: Lessons Learned, Questions, and Policies,” By Warner Chabot, Vice President, [Ocean Conservancy](#)
- 11/12/07 – San Francisco Chronicle, “Ship’s crew ordered to appear before grand jury investigating bay oil spill”
- 11/12/07 – Marin Independent Journal, “County beaches caught in oil’s path,” By Julia Scott, STAFF WRITER
- 11/12/07 – AP, “Pelosi, Newsom and other local politicians will tour Crissy Field to see spill damage”
- 11/12/07 – AP, “SF Bay Ship Pilot’s Actions Investigated,” By ERICA WERNER and MARCUS WOHLSEN
- 11/13/07 – Santa Rosa Press Democrat, “Ship was tied to tug when it hit Bay Bridge”
- 11/13/07 – Santa Rosa Press Democrat, “Crab fishermen wait for word on opening, worry about oil”
- 11/13/07 – Marin Independent Journal, “Bolin’s works to protect lagoon from oil spill,” by Rob Rogers
- 11/13/07 – Marin Independent Journal, “Site charts path of container ship,” by Richard Halstead
- 11/13/07 – Marin Independent Journal, “No oil entered county’s marine wilderness,” by Jennifer Upshaw
- 11/13/07 – San Francisco Chronicle, “Ship may have strayed from course before spill, records show”
- 11/27/07 – KCBW, “A Plan to Keep Mavericks Under Control”
- 11/27/07 – San Mateo Times, “Officials prepare for Mavericks crowds”
- 11/27/07 – San Francisco Chronicle, “Pelosi pressing for new investigation of bay oil spill”
- 11/28/07 – Santa Rosa Press Democrat, “Some crab may reach stores by weekend, North Coast fishermen await results of state oil spill tests,” By Robert Digitale
- 11/28/07 – San Francisco Chronicle, “Monterey Bay seabird die-off blamed on red tide”
- 11/28/07 – Santa Cruz Sentinel, “Santa Cruz County seabird die-off linked to red tide, state officials say,” By Jennifer Squires, Sentinel Staff Writer
- 11/28/07 – Monterey County Herald, “Seabird Die-Off”
- 11/29/07 – San Francisco Chronicle, “No rescue from state, feds for birds at Farallones, Monterey Bay,” By Jane Kay, Chronicle Environment Writer
- 11/29/07 – Monterey County Weekly, “Seaside and PG get creative about stormwater management.”
- 11/29/07 – Mercury News, “Crab boat wrecks off San Mateo County Coast,” By Julia Scott, Bay Area News Group
- 11/29/07 – The Salinas Californian, “Sustainable marine tourism seminar in Monterey today”
- 11/30/07 – Monterey County Herald, “Forum explores sustainable tourism,” By Laith Agha, Herald Staff Writer
- 11/30/07 – San Francisco Chronicle, “State lifts ban on fishing, crabbing after S.F. Bay oil spill”
- 11/30/07 – Santa Cruz Sentinel, “Moss Landing, Marina bird deaths believed to be linked,” By J.M. Brown, Sentinel Staff Writer
- 11/30/07 – Santa Cruz Sentinel, “Santa Cruz fishing crew wrecks near Pigeon Point,” By Jennifer Squires, Sentinel Staff Writer
- 11/30/07 – Santa Cruz Sentinel, “Syringes wash ashore on Seabright Beach,” By Genevieve Bookwalter, Sentinel Staff Writer

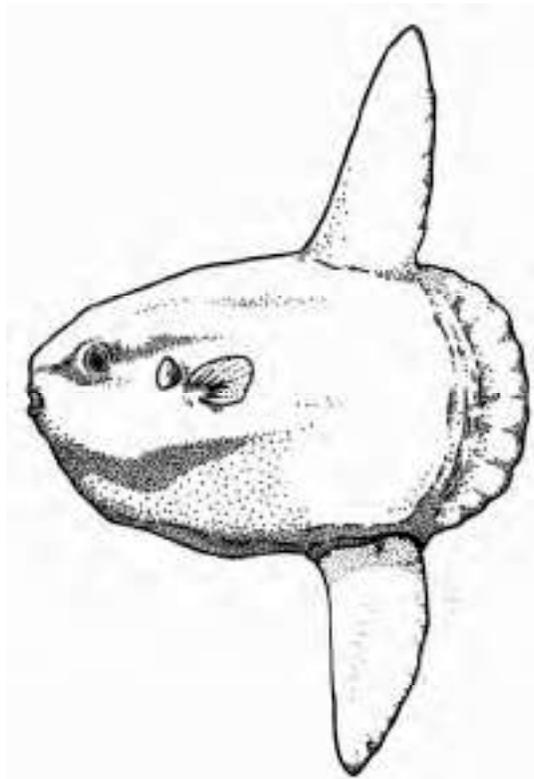
11/30/07 – Carmel Pine Cone, “Cal Am: Pilot plant will begin operating in January,” By Kelly Nix

11/30/07 – NBC 11, “Coast Guard Removes Fuel From Crashed Fishing Boat”

12/01/07 – San Francisco Chronicle, “Officials remove oil from sunken ship,” By Marisa Lagos, Chronicle Staff Writer

12/01/07 – San Francisco Chronicle, “U.S. sues owner, insurer and pilot of ship in oil spill,” By Bob Egelko, Chronicle Staff Writer

12/02/07 – Santa Cruz Sentinel, “Salvage effort begins on wrecked fishing boat,” By Jennifer Squires, Sentinel Staff Writer



SANCTUARY EVENTS CALENDAR

<i>11-Jan</i>	Research Activity Panel (RAP) Meeting, Monterey Bay Aquarium. Contact Andrew DeVogelaere at (831) 647-4213
<i>28-Jan</i>	Sanctuary Education Panel (SEP) Meeting, 3:30pm-5:30pm, MBNMS Offices. Contact Dawn Hayes at (831) 647-4256
<i>15-Feb</i>	Sanctuary Advisory Council Meeting, Half Moon Bay. Contact Nicole Capps at (831) 647-4206
<i>28-Feb - 7-Mar</i>	Immersion Presents focus on MBNMS
<i>1-Mar</i>	MERITO Watershed Academy training. Contact Sonya Padrón at (831) 647-4211, Sacha Lozano at (831) 647-4215, or Dawn Hayes at (831) 647-4256
<i>14-Mar</i>	Research Activity Panel (RAP) Meeting, Long Marine Lab, UCSC, Santa Cruz. Contact Andrew DeVogelaere at (831) 647-4213
<i>4-Apr</i>	MBNMS Awards Symposium. Contact Liz Love at (831) 647-4255, Dawn Hayes at (831) 647-4256, Lisa Emanuelson at (831) 521-9512 or Lisa Uttal at (831) 420-3664
<i>5-Apr</i>	Currents Symposium. Contact Liz Love at (831) 647-4255 or Dawn Hayes at (831) 647-4256
<i>18-Apr</i>	Sanctuary Advisory Council Meeting, Salinas. Contact Nicole Capps at (831) 647-4206
<i>9-May</i>	Research Activity Panel (RAP) Meeting, Elkhron Slough, NERR. Contact Andrew DeVogelaere at (831) 647-4213
<i>20-Jun</i>	Sanctuary Advisory Council Meeting, Santa Cruz. Contact Nicole Capps at (831) 647-4206
<i>11-Jul</i>	Research Activity Panel (RAP) Meeting, USGS, Santa Cruz. Contact Andrew DeVogelaere at (831) 647-4213
<i>15-Aug</i>	Sanctuary Advisory Council Meeting, Watsonville. Contact Nicole Capps at (831) 647-4206
<i>12-Sep</i>	Research Activity Panel (RAP) Meeting, CDFG, Monterey. Contact Andrew DeVogelaere at (831) 647-4213
<i>17-Oct</i>	Sanctuary Advisory Council Meeting, Cambria. Contact Nicole Capps at (831) 647-4206
<i>14-Nov</i>	Research Activity Panel (RAP) Meeting, Moss Landing Marine Labs. Contact Andrew DeVogelaere at (831) 647-4213
<i>19-Dec</i>	Sanctuary Advisory Council Meeting, Monterey. Contact Nicole Capps at (831) 647-4206

WEB SITE (<http://montereybay.noaa.gov/>)

Recent Updates

Visit the web pages listed below to see recently updated sections of the MBNMS web site.

- Cosco Busan Oil Spill Updates
<http://montereybay.noaa.gov/new/welcome.html#cosco>
- Marine Life Protection Act: California's new MPAs go into
http://montereybay.noaa.gov/resourcepro/resmanissues/mpa/mlpa_ca.html

*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.*

FUN, OCEAN RELATED WEB SITES

Encyclopedia of the Sanctuaries

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

NOS Data Explorer

<http://www.nos.noaa.gov/dataexplorer/welcome.html>

SIMON

www.mbnms-simon.org

National Marine Sanctuary Program

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

NOAA National Centers for Coastal Ocean Science

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

National Estuarine Research Reserve System

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

NOAA Ocean Explorer

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

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/>

Thank You Ocean

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

Learn More About Your Sanctuary

The Sanctuary Office Report is produced bi-monthly by the Monterey Bay National Marine Sanctuary 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://www.montereybay.noaa.gov/intro/advisory.html>

The National Marine Sanctuary Program

The Monterey Bay National Marine Sanctuary is one of 13 marine sanctuaries in the National Marine Sanctuary Program. This program was established under the National Marine Sanctuaries Act of 1972 which authorizes the Secretary of Commerce to designate as national marine sanctuaries areas of the marine environment or Great Lakes with special national significance due to their conservation, recreational, ecological, historical, scientific, cultural, archeological, educational, or aesthetic qualities. Visit the NMSP 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/educate/internship.html>

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



MBNMS Staff

Paul Michel – Superintendent
Andrew DeVogelaere – Research Coordinator
Erica Burton – Research Assistant
Jennifer Brown – Research Associate
Steve Lonhart – SIMoN Scientist
Jean de Marignac – SIMoN Scientist
Chad King – SIMoN Data Analyst
Josh Pederson – SIMoN Outreach Specialist
Gary Conley – SIMoN Water Quality Analyst
Dawn Hayes – Education & Outreach Coordinator
Liz Love – Education Specialist
Lisa Emanuelson – Resource Issue Ed Specialist
Sonya Padron – Bilingual Education Specialist
Michele Roest – Education & Outreach Specialist, San Simeon Office
Lisa Uttal – Education and Outreach Specialist
Scott Kathey – Regulatory Coordinator
Deirdre Hall – Permit Coordinator
Brad Damitz – Environmental Policy Specialist
Huff McGonigal – Environmental Policy Specialist
Lisa Lurie – Agriculture Water Quality Coordinator
Bridget Hoover – Water Quality Protection Program Director
Anna Holden – Water Quality Network Coordinator
Lisa de Marignac – Environmental Policy Specialist
Karen Grimmer – Program Operations Coordinator
Raymond Chisolm – Program Specialist
Nicole Capps – Advisory Council Coordinator
Christian Walters – Administrative Assistant
Andrew White – Network Manager
Sophie De Beukelaer – GIS Analyst
David Minard – R/V Fulmar Captain
Hans Burning – R/V Fulmar Operator
Erik Larson – R/V Fulmar Operator
Jaime Wasser – Marine Operations Coordinator/NOAA Corps
Hugo Selbie – Sea Grant Fellow

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