



Channel Islands National Marine Sanctuary Sanctuary Superintendent's Report



Volume 5, Number 4

A report for the Sanctuary Advisory Council and Sanctuary Constituents

September 2007

ABOUT THE SANCTUARY

Designated in 1980, the Channel Islands National Marine Sanctuary (CINMS or sanctuary) consists of an area off the coast of California of over 1,100 square nautical miles adjacent to the following islands and offshore rocks: San Miguel Island, Santa Cruz Island, Santa Rosa Island, Anacapa Island, Santa Barbara Island, Richardson Rock, and Castle Rock, extending seaward to a distance of six nautical miles. The islands vary in distance from 12 to 40 nautical miles offshore from Santa Barbara and Ventura counties in southern California.

A fertile combination of warm and cool currents in this area results in a great variety of plants and animals including kelp forests, fish and invertebrates, pinnipeds, cetaceans and sea birds. The sanctuary also has a wealth of maritime heritage resources including Chumash Native American artifacts and over 100 historic shipwrecks. Human uses in the area include commercial and recreational fishing, marine wildlife viewing, boating, diving, kayaking, maritime shipping, nearby offshore oil and gas development, research and monitoring, and numerous educational activities.

RESOURCE PROTECTION

Marine Reserves Process

Channel Islands Federal Water Marine Zones - Now in Effect
After nearly ten years of community discussion and state and federal rulemaking, the federal waters portion of marine protected areas (MPAs) within the Channel Islands National Marine Sanctuary (CINMS or sanctuary) went into effect on July 29, 2007. This recent National Oceanic and Atmospheric Administration (NOAA) action added eight no-take marine reserves (totaling 110.5 square nautical miles or nmi), and one limited take marine conservation area (1.7 square nmi) in the federal waters (3 to 6 nmi offshore) of the sanctuary. (Continued on next page)

Window on the Sanctuary

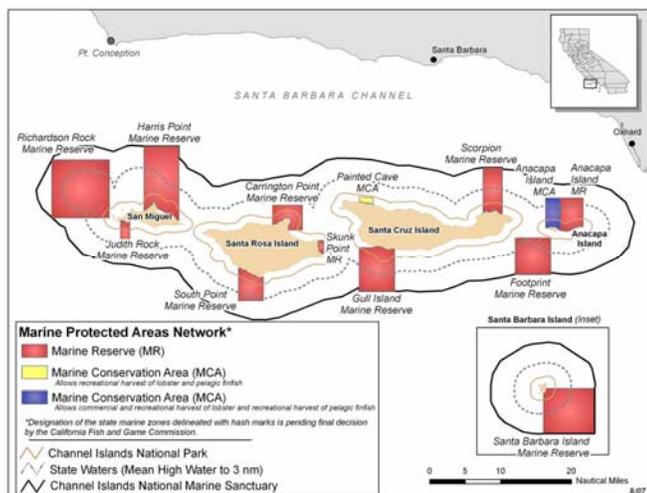
Developing and maintaining relationships between different NOAA line offices located within the same area not only helps each do their jobs better and more effectively, but also provides the public with better service. It's all about science, service and stewardship! That is why National Weather Service (NWS) and CINMS staff recently got together at the Oxnard NWS office to discuss several collaborative efforts. Photo: Tina Reed.

This image is one of many "Postcards from the Field" celebrating NOAA's 200th anniversary. View more postcards from around the country at: <http://celebrating200years.noaa.gov/activities/postcards.html>.

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Maps and information about the Channel Islands MPA network is available online at <http://channelislands.noaa.gov/marineres/main.html>.

This action complements the 2003 California Fish and Game Commission implementation of ten no-take and two limited take zones within the state waters of the sanctuary (out to 3 nmi offshore). The area of the Channel Islands MPA network, including the existing state marine zones, is 214.1 square nmi. There remain small gaps between the state zones and the federal zones, an artifact of squaring off the state zones in 2003 for enforcement and ease of recognition by boaters until the federal zones were established. When the gaps are closed, the total network size will be 240.4 square nmi, encompassing 21% of sanctuary waters in 11 marine reserves and 2 marine conservation areas. This is the largest marine reserves network in the continental United States. Dozens of national, regional and local print media, along with local radio stations in the Santa Barbara and Ventura region, relayed the news of NOAA's action. The Los Angeles Times ran a major article about the action on Thursday, August 9th, which was subsequently picked up by the Associated Press and numerous newspapers.

The California Fish and Game Commission met in Santa Barbara on August 9 and 10 to receive input on closing the small gaps in the network. Chris Mobley (Sanctuary Superintendent) provided public testimony expressing support for closing the gaps, and support for a Memorandum of Agreement between NOAA and California Department of Fish and Game to enhance coordination of biological and economic monitoring, outreach and cooperative enforcement. Several speakers

including Sanctuary Advisory Council Chair Dianne Black, and representatives of Channel Islands National Park (CINP or park), environmental and fishing constituencies also supported closing the gaps and completion of a Memorandum of Agreement. Russell Galipeau (Park Superintendent) provided an overview of marine zone enforcement efforts and documented very high compliance rates by fishermen. Local environmental representatives also suggested that the Fish and Game Commission support the complementary overlay of sanctuary regulations in state waters in the future. The decision by the California Fish and Game Commission on the state water gaps is expected in October 2007.

Marine Reserves Presentations to Rotary Clubs

Sean Hastings (Sanctuary Resource Protection Coordinator) recently provided presentations about the sanctuary and marine reserves to the Santa Barbara and Montecito Rotary Clubs. Over 100 people attended the Santa Barbara presentation, hosted by one of the oldest rotary clubs in the U.S. Following the Santa Barbara presentation the regional rotary club member invited the sanctuary to provide similar presentations to the 24 regional rotary clubs.

MANAGEMENT PLAN REVIEW

Working closely with the National Marine Sanctuary Program's (NMSP) West Coast Region office, sanctuary staff are nearing completion on responding to all 674 comments received on the Draft Management Plan/Draft Environmental Impact Statement (DMP/DEIS). As staff move ahead with drafting responses to remaining comments, the draft documents are being modified into a Final Management Plan/Final Environmental Impact Statement. In late July, staff engaged in an intensive "management plan week" work process that helped to address several issues and many documentation tasks.

As previously reported, to more fully address graywater and sewage discharge issues from large vessels (greater than 300 gross registered tons), the NMSP plans to issue a Supplemental Notice of Proposed Rulemaking and Supplemental Draft Environmental Impact Statement as a necessary step toward completion of the management plan revision process. CINMS staff finalized the supplemental environmental documents in May, and have since been revising documents as reviewer

comments are submitted. Thus far, staff have addressed comments from: the NMSP West Coast Region, NMSP headquarters staff, and NMSP leadership. Comments have just been received from the NOAA Office of General Counsel, and still to come are reviews from the NOAA Office of Program Planning and Integration and the Department of Commerce. The supplemental documents will be released in order to ensure that the public has adequate information and opportunity to comment on the possibility of sanctuary regulation of graywater and sewage discharges from large vessels. The supplemental documents will be made available for public review and comment, and comments received will be considered and integrated into the Final Management Plan/Final Environmental Impact Statement, and a Final Rule.

Sanctuary staff will continue to provide updates on the Supplemental Notice of Proposed Rulemaking, Supplemental Draft Environmental Impact Statement, Final Management Plan, Final Environmental Impact Statement, and Final Rule at upcoming Sanctuary Advisory Council meetings and via the sanctuary's recently updated management plan web page: channelislands.noaa.gov/manplan/overview.html.

Sanctuary Intern Completes Thesis and Publishes Article on Underwater Noise

Angela Haren, former sanctuary management plan intern, successfully developed her sanctuary experiences into a master's thesis (University of California Los Angeles, School of Public Affairs) and a recently published article in the *Journal of International Wildlife Law and Policy*. Her article, *Reducing Noise Pollution from Commercial Shipping in the Channel Islands National Marine Sanctuary: A Case Study in Marine Protected Area Management of Underwater Noise* provides a policy analysis and offers a set of management recommendations for proactively addressing potential threats to marine life from shipping traffic noise. The paper is on line at <http://www.informaworld.com/smpp/title~content=t713778527>. Reflecting on her experiences, Angela has stated that working with the sanctuary on this project was "truly the highlight of [her] time in grad school."

SANCTUARY ADVISORY COUNCIL

Sanctuary Advisory Council endorses Final Report on Open Ocean Aquaculture

On July 20, the Sanctuary Advisory Council (Advisory Council) voted unanimously (15-0) to endorse a comprehensive report and set of management recommendations contained within their Conservation Working Group's final draft report: *Open Ocean Aquaculture in the Santa Barbara Channel: An emerging challenge for the Channel Islands National Marine Sanctuary*. The eighty-page report, developed by members of the Conservation Working Group over the last two years, compiles information on the potential environmental implications and regulatory framework for open ocean fin fish aquaculture with the intent of providing sanctuary managers and stakeholders with a tool for evaluating future aquaculture project proposals in the Santa Barbara Channel. The report proposes ten precautionary recommendations related to environmental standards for open ocean aquaculture and sanctuary involvement in policy development and rulemaking processes. To download a copy of the final report, visit <http://channelislands.noaa.gov/sac/pdf/7-27-07.pdf>.

VESSEL & AIRCRAFT OPERATIONS

Vessel Program Support

During the reporting period (June 23 through August 24) research vessel (R/V) *Shearwater* completed the following undertakings:

Research and Monitoring

- Xantus's murrelet monitoring at Anacapa Island and Cassin's Auklet monitoring at Scorpion Rock, Santa Cruz Island with researchers from the California Institute of Environmental Studies and the U.S. Geological Survey (USGS), 6 July.
- Ambient noise-level monitoring and marine mammal observations with researchers from the Scripps Institute of Oceanography, 11-12 July.
- Partnership for Interdisciplinary Studies of Coastal Oceans (PISCO) dive project with researchers from the University of California Santa Barbara (UCSB), 17-19 July, 23-26 July.

- On-going water quality monitoring in the Santa Barbara Channel with scientists from UCSB, 27 July.
- Sonar surveys of the seafloor and habitat characterization with researchers from USGS, 6-18 August.

Social Science Monitoring

- Private boater surveys, tracking use-patterns in the sanctuary, 14 July.

Channel Islands Hi-Definition Film Project

- Collection of video footage, using SCUBA, for a hi-definition film about the Channel Islands, 26-29 June, 01-03 August.

Education and Public Outreach

- Channel Islands resource training and orientation for the staff of the Ty Warner Sea Center, 09 July.

Vessel Maintenance

Shearwater spent approximately three days at the Ventura Harbor Boat Yard to repair a malfunction in her steering gear. The vessel returned to work promptly, resulting in the loss of only two operational days.

For details on any of the projects listed above, please refer to the relevant section of this Superintendent's Report.

Aircraft Operations

The Sanctuary utilized contract aircraft to conduct all aerial monitoring during the current reporting period. See *Research and Monitoring* (below) for more details about aerial monitoring.

RESEARCH & MONITORING

Research Grant News

Researchers Receive \$100,000 Grant to Study Passive Acoustic Monitoring in the Sanctuary
NOAA's Ocean Acoustics Program (NOAA Fisheries, Office of Science and Technology) and the sanctuary (National Ocean Service, NMSP) are collaborating with researchers from the Scripps Institute of Oceanography to deploy passive acoustic sensing technologies off of

southern California. With a recent grant award of \$100,000 from NOAA's Ocean Acoustics Program, and in-kind support from the NMSP, Scripps will deploy additional sophisticated listening devices from the sanctuary's research vessel *Shearwater* for approximately six months at a time, continuously recording the natural and human sounds in and around the sanctuary. The study aims to identify noise sources (biological and anthropogenic) within the Santa Barbara Channel shipping lanes and the sanctuary, including which ship types produce the most dominant and pervasive noise, temporal and spatial patterns of noise. The study will also attempt to detect vocal responses to shipping noise by cetaceans. This collaboration is part of a broader effort within NOAA to expand the use of passive acoustic technologies to address issues relating to basic marine biology, human impacts on marine ecosystems, and public education and outreach on ocean sound. For more information, contact Brandon Southall (Brandon.Southall@noaa.gov) or Danielle Lipski (danielle.lipski@noaa.gov) with NOAA, or Megan McKenna with the Scripps Institute of Oceanography (megan.mckenna@gmail.com).

Research and Monitoring Activities

Marine Mammal Acoustics Research at the Channel Islands

Researchers from Scripps Institution of Oceanography and staff from CINMS are continuing their partnership to study how marine mammals are affected by ship noise. On July 12 and 13, PhD student Megan McKenna, Dr. John Hildebrand, and sanctuary staff surveyed for marine mammals and deployed acoustic equipment in and around the sanctuary on the R/V *Shearwater*. The team recovered and deployed a High-frequency Acoustic Recording Package (HARP) near Point Conception, and deployed a new HARP near Santa Cruz Island. They also used a hydrophone array to record marine mammal vocalizations while surveying for marine mammals.

Sanctuary Aerial Monitoring & Spatial Analysis Program (SAMSAP)

Sanctuary staff recently conducted the first two SAMSAP flights of 2007. CINMS contracted a Partenavia Observer high wing, twin-engine aircraft from Aspen Helicopters of Oxnard, and conducted aerial surveys for vessel use at the four northern Channel Islands in mid-July. Staff recorded high visitor use on



the south sides of Anacapa and Santa Cruz islands, including many recreational boaters, sport fishermen, and sport divers. They were also able to support a concurrent CINMS on-the-water socioeconomic survey by directing R/V *Shearwater* to high-use areas.

During the second SAMSAP flight of 2007, in mid-August, sanctuary staff surveyed Santa Barbara Island. Staff recorded several boats at Landing Cove, and pods of common and Risso's dolphins along transects between Santa Barbara and Anacapa islands. In addition to collecting data, staff completed surveillance transects and took photos at Anacapa Island and the southeastern end of Santa Cruz Island. One notable photo captured a party fishing boat "fishing the line" at the edge of Anacapa Island State Marine Reserve. Regular aerial surveys are planned through the rest of the fiscal year via contract aircraft while the CINMS assigned aircraft, NOAA-64, is down for repair.

Aerial Sea Lion Surveys Completed at Sanctuary

Mark Lowry of NOAA's Southwest Fisheries Science Center completed an aerial census of sea lions in the sanctuary. Dani Lipski (Sanctuary Research Assistant) assisted with the surveys in a Partenavia Observer high wing, twin-engine aircraft. Many pinnipeds were observed at San Miguel Island, which historically has high abundances of sea lions, harbor seals, and elephant seals. The annual surveys have been conducted for approximately 20 years and have recorded fluctuations in the sea lion population.

Xantus's Murrelets Experiencing a Late but Productive Breeding Season at the Channel Islands

Researchers are observing a later breeding season than normal, but a high number of nesting attempts for Xantus's murrelets at the Channel Islands. Darrell Whitworth (California Institute for Environmental Studies Wildlife Biologist) and sanctuary staff were on board the sanctuary's R/V *Shearwater* to check the status of nests in sea caves and on cliffs at Anacapa Island on July 6. Xantus's murrelets are a California state seabird species of special concern and the Channel Islands are just one of a few places in California and Mexico where they are known to breed. Two more trips are planned this summer to document the nesting success of this species.

USGS Completes Habitat Mapping at Santa Rosa Island
USGS scientists led by Dr. Guy Cochrane completed nine days of side-scan sonar habitat mapping in August at Santa Rosa Island. The team surveyed the southwestern side of the island, despite weather and mechanical delays, filling in a gap in completed maps between the southern sides of San Miguel and Santa Rosa islands. Interesting features, such as sand deposition areas were revealed. With approximately just 18% of the sanctuary mapped at high resolution, completing this and other mapping projects is a sanctuary priority.

MARK YOUR CALENDARS! SYMPOSIUMS IN 2008

Sanctuary staff are planning for the California Islands Symposium and the Channel Islands Marine Reserves Symposium in February 2008 at the Mandalay Bay Resort in Oxnard. The California Island Symposium is a forum for the presentation of natural and cultural resource information collected on any of the California Islands, including Baja, and their surrounding marine environments and will be held Tuesday, February 5 through Thursday, February 8, 2008. Abstracts are now being accepted. Please visit <http://californiaislands.org/wsn/page2.html> for more information. Registration information, including fees, will be posted soon.

The Channel Islands Marine Reserves Symposium will feature invited speakers for a five-year review of education, enforcement, socioeconomics, and biological monitoring of the state marine reserves established in 2003 at the Channel Islands. This special symposium will take place the evening of Thursday, February 7 (education, enforcement, socioeconomics) and all day Friday, February 8 (biological monitoring). This symposium will be free and open to the public. Please mark your calendars and plan to attend these important events.

Channel Islands Naturalist Corp (CINC) Volunteer Research and Citizen Science

State of California Harmful Algal Bloom Study

CINC volunteers continue to conduct plankton tows on board the R/V *Shearwater* as part of a statewide study on harmful algal blooms. Volunteers conduct the tows during Plumes and Blooms research cruises, scheduled throughout the year.

Anacapa Island Larval Settlement Study

Several CINC volunteers have been trained by Michael Moss (Park Biologist), to assist with a benthic larval settlement study in conjunction with the Park and UCSB. They collect samples two times per month at Anacapa Island.

Spatial Analysis and Assessment of Non-consumptives Uses of California's Marine Sanctuaries

From May through September, ten CINC volunteers have served as survey enumerators for a multi-year socioeconomic study: *Spatial Analysis and Assessment of Non-consumptives Uses of California's Marine Sanctuaries*. The volunteers are working from the R/V *Shearwater* to conduct intercept surveys of private boaters in the Channel Islands during weekends. As part of the study, CINC volunteers also assisted with boater postcard surveys at launch ramps in Santa Barbara, Ventura, and Channel Islands harbors on busy weekends through Labor Day.

Blue and Humpback Whale Photographic Identification

CINC volunteers are continuing participation in photographic identification of blue and humpback whales on select whale watch boats out of Santa Barbara and Ventura harbors. Volunteers collect this data in cooperation with Cascadia Research Collective, the primary source for population and distribution trends of blue and humpback whales in California waters.

Marine Mammal Sightings

CINC volunteers continue to update the sanctuary's online Marine Mammal Sightings Database with sightings reports of area endangered or scarce marine mammals. Sightings are also shared in partnership with other organizations such as: Journey North, A Global Study of Wildlife Migration and Seasonal Change

(<http://journeynorth.org/>); The Otter Project in Marin, California (<http://www.otterproject.org/>); and the USGS Western Ecological Research Center in Santa Cruz, California (<http://www.werc.usgs.gov/>). Visit our sightings database here:

<http://www.cisanctuary.org/mammals/>.

To read about other CINC activities please see p. 8.

EDUCATION, VOLUNTEER, & OUTREACH

Special Events

2007 From Shore To Sea Lecture Series

The 2007 lecture series continues to feature fascinating Channel Islands topics. On July 10 and 11, Dr. Christy Pattengill-Semmens (Reef Environmental Education Foundation or REEF, Director of Science) gave an overview of the history of REEF, and presented the value of citizen monitoring in understanding fish and invertebrate populations around the Channel Islands. A study will be published about these populations in 2008.

On August 14 and 15, Dr. Satie Airame (PISCO Policy Coordinator) provided a lecture on PISCO and Marine Reserve Monitoring. She discussed current monitoring efforts and summarized our knowledge about ecological changes in the Channel Islands MPAs.

The sanctuary, park, and Santa Barbara Maritime Museum jointly sponsor the "From Shore to Sea" lecture series in an effort to further the understanding of science and history of the Channel Islands and surrounding waters. The programs are free and open to the public. The lectures take place at 7:00 p.m. on one Tuesday and Wednesday per month, with Tuesday lectures at the Santa Barbara Maritime Museum's Munger Theatre, and Wednesday lectures at the Channel Islands National Park Robert J. Lagomarsino Visitor Center. For upcoming lectures please refer to the sanctuary calendar on p. 17, or for the complete schedule of 2007 lectures please visit the sanctuary's From Shore to Sea web page: <http://www.channelislands.noaa.gov/edu/shoretosea.html>

You can watch the monthly From Shore to Sea Lectures on Ventura's Public Access Channel 15!
Visit <http://www.capstv.org> for programming information.



MPA Education

Updating and Revising Outreach Tools to Show New Channel Islands MPA Network

CINMS education and outreach staff are working to create new map graphics that will accurately show the new Channel Islands MPA designations and boundaries. These graphics will be used in all interpretive enforcement brochures, signs and exhibits. Efforts are currently underway to retool the *Protecting Your Channel Islands* brochure, and provide an updated reprint by early 2008.

Meetings

Channel Islands Live!

On August 6, Julie Bursek (Sanctuary Education Coordinator) participated in a *Channel Islands Live!* planning meeting with Ventura County Office of Education and CINP. At the meeting, Ventura County Office of Education Technology Services staff discussed next steps in infrastructure upgrades to support *Channel Islands Live!* programming in participating Ventura County schools, and future broadcasts to a larger network of schools in California and the nation. Funding requirements to support a fully interactive system for underwater broadcasts were also discussed. The *Channel Islands Live!* underwater dive program supports the JASON XIV From Shore To Sea curriculum on kelp forest monitoring and marine reserves. A major goal of this program is to have classroom students interact in real time with divers in the kelp forest community of the Anacapa Marine Reserve. This experience will allow students to see firsthand what a kelp forest community looks like, and how researchers monitor the health of this important habitat. Meeting participants identified dates for a series of live, underwater broadcast pilot programs involving County partners, the NMSP, and California Science Teachers Association Conference participants. A preliminary date has been set to pilot the underwater program live link at Blackstock Elementary School in Port Hueneme, one of the Bay Watershed Education and Training program (B-WET) grant participants in *Channel Islands Live!*

Channel Islands Symposium Education Strand

On August 8, Julie Bursek and Laura Francis (Sanctuary Education Coordinator) coordinated a conference call with local education partners including UCSB and CINP, to plan the educational strand and poster session

at the upcoming California Islands Symposium in 2008. The planning team will be soliciting participation from regional education partners whose programs focus on the Channel Islands and surrounding waters. The evening poster session will be an opportunity for the K-12 community to interact with informal education partners and researchers who have resources and programming available for classroom use.

California Sign Plan

On August 10, Julie Bursek and Laura Francis met with designer Leslie Stone (Leslie Stone and Associates), and park interpretation staff to discuss content and design for new signs that highlight the Channel Islands MPA network, and agency roles in protecting resources. The NMSP and the National Park Service are developing a dual design approach that takes into consideration branding criteria of both programs. These signs will be installed at the landing coves of Anacapa, Santa Barbara, Santa Cruz, and Santa Rosa islands, and at the dock entrances of Island Packers and Truth Aquatics island concession operations. The signs will be completed and installed in fiscal year 2007, which ends September 30.

Workshops

Sea Center Staff and Volunteers to Learn About the Sanctuary

On July 9, staff from the Santa Barbara Museum of Natural History Ty Warner Sea Center took a research trip to Santa Rosa Island to learn about the sanctuary and park. CINP volunteer Lee Fleischer led the group on a guided island hike. Trip participants previously attended a required lecture to learn about the sanctuary and park, current research efforts, marine plants and animals, geology, geography, marine protected areas, natural history and maritime heritage resources.

Multicultural Education for Resource Issues Threatening Oceans (MERITO)

Oxnard City Council and Mayor Recognize MERITO Academy Students for Their Environmental Efforts

On July 10, the Oxnard City Council recognized the efforts of 65 fifth and sixth grade students from Drifill Elementary for their restoration efforts at Ormond Beach wetlands as part of the pilot MERITO Academy program. On behalf of the City Council, Oxnard Mayor Dr. Thomas E. Holden presented certificates of commendation to the two participating teachers, and to

Rocío Lozano-Knowlton (Sanctuary Bilingual Education and Outreach Specialist) and Shannon Newby (MERITO Academy Program Manager) for the coordination and management of the program. Each student met and shook hands with Mayor Holden and City Council members during the live broadcast of the City Council meeting. The ceremony can be viewed at the City Council's archive:

http://oxnard.granicus.com/ViewPublisher.php?view_id=3.



65 fifth and sixth grade students from Driffill Elementary received their CINMS MERITO Academy graduation certificates (June 2007). Photo: Shannon Newby.

MERITO Staff Member Serves as Role Model at First Annual Southern California Minority Youth Environmental Training Institute

From July 17-18, Rocío Lozano-Knowlton joined the National Hispanic Environmental Council (NHEC) to share her knowledge of the CINMS environment, career and life experiences, and heritage with 30 minority students aged 16-18 as part of the first annual Southern California Minority Youth Environmental Training Institute. On July 17, Lozano-Knowlton led the students on a wildlife-viewing trip around Anacapa Island, and provided a presentation on CINMS biogeography and potential career opportunities with NOAA. On July 18, Lozano-Knowlton gave a presentation on her life experiences as a marine scientist. The Youth Environmental Training Institute is an intensive, science-based, residential six-day program for talented teens, designed to create the environmental leaders of tomorrow. The Institute serves mainly Latino/minority teens given the severe under representation of Latinos in environmental fields. For more information visit <http://www.nheec.org/MYETI-SC-2007/index.html>.

Channel Islands Naturalist Corps (CINC) Volunteer Program

July and August Whale Watch Vessel Excursions

CINC volunteers provided interpretation on 38 whale watching trips in July, and 47 in August. Santa Barbara's *Condor Express*, Santa Barbara Sailing Center's *Double Dolphin*, and Island Packers were the whale watch operators offering trips in July and August. The *Condor Express* ran whale watching trips once daily in July and August, with double trips five days in August. The *Double Dolphin* offered a varied schedule with seven trips in July, and six in August. Island Packers ran six trips in July and seven in August.

Blue whales are here in abundance! See the CINC Field Report on p. 10 for more information.

July and August Island Programs

CINC island hike naturalists participated in five Island Packers trips in July, and five in August from Ventura, and 14 Island Packer trips in July and 16 in August from Channel Islands. In addition, there were 22 trips in July to Scorpion Anchorage, Santa Cruz Island and 16 in August. There were five naturalist led trips to Santa Rosa Island in July and five in August.

CINC volunteers provided vital support to the *Channel Islands Live!* underwater dive program with topside interpretation and diver support on Tuesdays, Wednesdays, and Thursdays throughout the summer season. The program was broadcast from the Landing Cove on Anacapa Island, educating the public about the kelp forest, ecology, and marine reserves. Thousands of island visitors and school children experienced the program during July and August.

Sanctuary Renews Five-Year Agreement with Local Whale Watch Operators

On June 27, the sanctuary finalized the renewal of a five-year agreement with local whale watch and sight-seeing vessels to provide education and interpretation about sanctuary resources to passengers. The original Memorandum of Agreement was established in 2001, and enables the sanctuary to work with eight operators to schedule specially trained CINC volunteers on whale watch trips and island hike trips with the park throughout the year.

IN MEMORIAM

Robert (Bob) Rydgig

Channel Islands Naturalist Corps 2001, Photo Identification 2002, Certified Island Hike Naturalist 2003, Channel Islands Live! Underwater Dive Program 2005

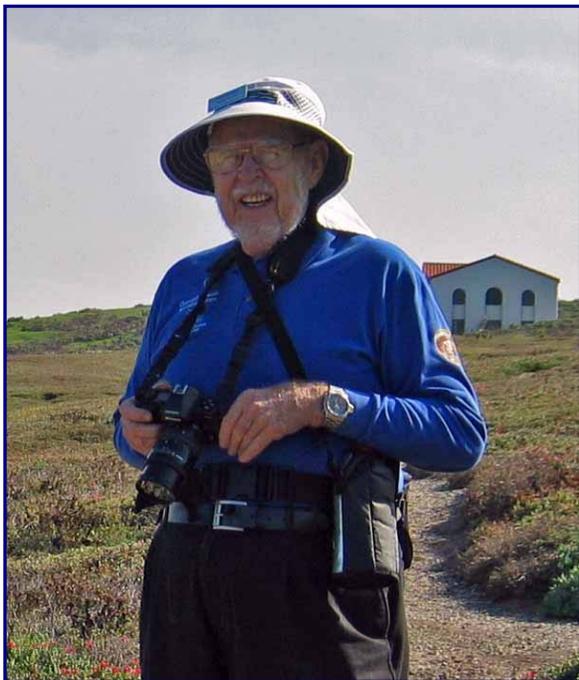
"We at the Channel Islands National Marine Sanctuary are deeply saddened by the loss of our volunteer, Bob Rydgig. He enjoyed sharing his passion for the ocean and SCUBA diving with our staff, volunteers and the public. We will all miss him." --Chris Mobley, Sanctuary Superintendent

A dedicated, long-term volunteer for Channel Islands National Park and Channel Islands National Marine Sanctuary, Robert (Bob) Rydgig, died on Wednesday, August 15, 2007, of a heart attack following a dive at Anacapa Island. Immediate rescue and resuscitation efforts by National Park Service staff and Channel Islands Naturalist Corps (CINC) volunteers, Island Packers and Paddlesports concessionaires, and by Channel Islands visitors trained in the medical profession were unsuccessful.

Since 2001, Bob had been an enthusiastic and very active participant in the CINC, contributing over 1500 hours. As a naturalist he shared the wonders of the rich marine environment of the Channel Islands with thousands of visitors who accompanied him on whale watch trips. Bob also represented the sanctuary and park at community events, often sharing his love of the ocean and diving. For the park and sanctuary, he served as a topside line tender during the live underwater interpretive program in the kelp forests at Anacapa Island.

Bob was a very caring and kind person and was well loved by all who worked with him. He was very helpful to his fellow naturalists and appreciated by the visitors as well. As a true life-long learner, Bob cared deeply about protecting the marine environment and regularly expanded his knowledge by attending lectures and training sessions.

As an avid diver for over 50 years, Bob logged numerous dives in the Channel Islands, often diving twice each week. Since his retirement over ten years ago from a career as an electrical engineer for the Jet Propulsion Lab



in Pasadena, California, he lived in Ventura County and had been an active member of the diving community and the Channel Islands Dive Club. Bob was a founding member of a Los Angeles area dive club, an active volunteer for the Reef Environmental Education Foundation and also a past dive instructor.

As a beloved member of National Marine Sanctuary and National Park families, Bob will be sorely missed by staff and volunteers alike. They find solace in knowing that he died following an activity he loved, surrounded by people who cared for him, and in an environment he was devoted to protecting.

He is survived by two daughters and their husbands who reside in Ventura County, three grandchildren and four great grandchildren.

At the CINC monthly meeting on August 21, as well as at the volunteer recognition dinner on September 18, staff and volunteers took time to reflect on and celebrate Bob's wonderful life.

SPOTLIGHT ON VOLUNTEERS

Channel Islands Naturalist Corps Volunteer Field Report: July, 2007

July 7th was a day to remember. I wasn't certain whether I should laugh or cry - I was that ecstatic. Island Packers' *Island Adventurer* Captain Evan, crew, naturalist Elan and I spotted some 21 blue whales!!!!!!! It was almost like a "pod" of blue whales. They were spouting, fluking, cruising top speed at the surface, and pooping (yup, we even got up close and personal to blue whale poop) just about every where we turned. There were so many it was hard to keep track of them, and all 51 passengers (sans the seasick ones) were very excited. Not to be outdone, several pods of common dolphins entertained us when the whales were not fluking and coming up alongside the boat about 20 feet away to have a look. That was the second time I cried. The first was when I saw my first fluke and huge tail stalk of a blue whale. I also spotted a *Mola mola*. The vessels *Condor Express* and *Double Dolphin* were also on scene for part of the time.

The other exciting part of the trip (which one tourist said was the best part - go figure) was a kayak rescue at Santa Cruz Island. When the wind came up a couple of kayakers were out of their element. Island Packers came to the rescue in a very professional way.

I never thought I would see a blue whale, let alone its fluke and so many blue whales at one time. I saw two blues years back when they were first spotted at the Channel Islands, but only from a distance. My emotional response to the blue whale sightings is not unjustified. I have been a marine biologist for 34 years. When I first started out in this field researchers told us the blue whale was "for all intents and purposes" considered an extinct species. The scientists back then estimated there were maybe 200 blue whales left, and believed this was below the carrying capacity for the species to be able to reproduce. This was reported at the 1973 Endangered Species Act conference that I attended in Washington, D.C., which was hosted by Marlin Perkins of Mutual of Omaha's Wild Kingdom (some of you may remember this show). I knew then this is why I wanted to be in the environmental business. Though I have not spent my career saving blue whales, the sights we saw last Saturday just point out how successful the Endangered Species Act, International Whaling Commission (though in 1975 they were still looking at protecting whales as "stocks" for consumption), and Marine Mammal Protection Act have been. What a success story, and may it continue with the support of all of you and the CINC!!!!



Blue whale (*Balaenoptera musculus*)

- *Dr. Kathleen S. Roos, Naval Facilities Institute
Channel Islands Naturalist Corps Volunteer (2007)*

Note from the Sanctuary Volunteer and Outreach Coordinator: Another fabulous report from the field from one of our 2007 whale watch volunteers. This is an illustration of the quality of volunteers in our program, and of the excellent training provided with tax-payer dollars!

Island Hike Training

A total of 36 naturalists have been trained and certified to lead hikes at the Channel Islands. The remaining naturalists who attended this year's training continue to "shadow" seasoned volunteers on island hikes as part of the certification process. The sanctuary and park continue to increase CINC volunteers trained to lead island hikes to improve coverage during the busy spring and summer season with Island Packers and Truth Aquatics.

Monthly In-Service Meetings

On July 17, CINC volunteers attended a monthly in-service training meeting on the natural history and biology of pinnipeds (seals and sea lions). Dr. Charles Rennie, III, an expert in marine mammalogy from the Santa Barbara Museum of Natural History, conducted the training.

On August 21, the monthly in-service training meeting featured two educational videos. CINC volunteer Bill Weinerth presented the first video: an interview with the late CINC volunteer Bob Rydgig about the kelp forests at Landing Cove, Anacapa Island. This video highlights Rydgig's experiences diving in the islands for over 50 years. The video was a memorial tribute to Rydgig, who passed away on August 15. Please read more about Rydgig's lifelong passion for the ocean on p. 9. The second video, "Restoring the Balance," chronicles the eradication of the non-native black rat from Anacapa Island several years ago. It is a great example of what multiple agencies can do together in an effort to restore an island ecosystem and protect native species.

Volunteer Recognition

On September 18, the sanctuary and park will honor CINC volunteers and Volunteers in Parks, at a joint volunteer recognition event. The annual event will be held at park headquarters in Ventura.

Public Outreach

Sanctuary Participates in Channel Islands Live! Underwater Video Program

On July 17, Laura Francis and Dani Lipski (Sanctuary Research Assistant) participated in the *Channel Islands Live!* underwater video program at Anacapa Island. Using an Aga mask with a two-way audio system, Francis provided an audience of approximately seventy summer camp students from Ventura with underwater

interpretation about the kelp forest and marine reserves. Students asked questions about marine life encountered during the dive, and learned how they are connected to the ocean and what they can do to protect it. Lipski served as line tender for the program. The park originally conceived of the underwater video program, which is now evolving into a broader "telepresence" program conducted in partnership among the park, the sanctuary, and the Ventura County School District. We are working to extend the program's reach to students around the country via Internet 2.

CINMS and NOAA Ocean Media Center Divers Capture Footage for High-Definition Documentary



Jessie Altstatt (Santa Barbara Channelkeeper Science Director) is interviewed on board the *Shearwater* for the CINMS high-definition documentary. Photo: Robert Schwemmer.

John Brooks and Paul Hillman (with NOAA's National Ocean Service, Ocean Media Center) have been working with CINMS staff to produce a high-definition documentary about the sanctuary, currently scheduled for completion in the summer of 2008. From June 25-29, NOAA divers Laura Francis, Robert Schwemmer (Sanctuary Maritime Heritage Coordinator), Brooks, and Hillman conducted dive operations from the R/V *Shearwater* to capture high definition footage. Jessie Altstatt (Santa Barbara Channelkeeper Science Director and Biologist) also participated in the trip. The focus of the trip was to obtain footage of eelgrass habitat and restoration efforts, and the landscape above and below the water's surface. Divers documented sites on eastern Santa Cruz and Anacapa islands. From August 1-3, Brooks, Hillman, Chris Mobley, and Dr. Carl Gwinn (UCSB) conducted additional dive operations from the R/V *Shearwater* to get more underwater shots "in the can." The August trip focused on small creatures, such

as sea urchins and brittle stars, filming on rock walls and ledges, and searching for the elusive giant sea bass, off of Anacapa and Santa Cruz islands.



John Brooks films Jessie Altstatt (Santa Barbara Channelkeeper Science Director) surveying an eelgrass bed for the CINMS high-definition documentary. Photo: Robert Schwemmer.

Ventura County Fair

The sanctuary, park, Santa Monica Mountains National Recreation Area, and California State Parks joined together to design a “Partners in Preservation” exhibit space at the 132nd Ventura County Fair, held August 1-12. The booth won first place for the best natural resources and agricultural exhibit. This year’s theme focused on the “old fashioned,” and several exhibits related to the ranching era of the Channel Islands, including an exhibit developed by Robert Schwemmer on the “Shipwrecks that Built San Miguel Island.” CINC volunteers provided coverage at 20 shifts during the ten-day event. Over 300,000 people were estimated in attendance at the fair, and over 12,000 thousand fair-goers visited the sanctuary booth.

National Marina Day

On August 11, the sanctuary hosted a booth at Ventura Harbor’s First Annual National Marina Day. The event celebrates “America’s Gateways to Boating” and is “geared toward the education of politicians, civic leaders and the public about the important role the marina industry plays in cities and towns across the nation as family-friendly gateways to boating and stewards of the environment.” Several hundred people were in attendance at the event.

Presentations

On August 8, a CINC volunteer gave a presentation about the sanctuary and park at the Camarillo Fishing Club’s monthly meeting. The club has over 60 members who often organize fishing trips to the Channel Islands.

On August 18 and 25, a CINC volunteer gave a campfire presentation on “Marine Mammals of Our CINMS” for Carpinteria State Beach visitors.

MARITIME HERITAGE PROGRAM

Education and Outreach

Robert Schwemmer participated in a four-day film project in the sanctuary on board the R/V *Shearwater*, providing dive support to film director John Brooks (please see *CINMS and NOAA Ocean Media Center Divers Capture Footage for High-Definition Documentary* on p. 11). During one of the dives off Anacapa Island, while searching for giant sea bass, the team located what they believe is concreted wreckage of a shipwreck, possibly associated with the wreck of the *Winfield Scott*. The California Gold-Rush passenger steamer was lost at Middle Anacapa Island in 1853. Follow-up dives are planned in October during the shipwreck reconnaissance expedition aboard the *Shearwater* to further examine the site. For more information about the *Winfield Scott* please visit <http://channelislands.noaa.gov/shipwreck/dbase/cinms/winfieldscott1.html>.

On July 10, CINMS installed a new interpretive kiosk at the Santa Barbara Maritime Museum. The kiosk features current weather condition in the Santa Barbara Channel, and updated information on CINMS projects, education, outreach and resource protection programs, maritime heritage resources, and extensive information on sanctuary species, habitats, and trends. The kiosk will be expanded to include the online shipwreck database curriculum and underwater video of the shipwreck *Cuba*, a passenger cargo steamer lost at San Miguel Island in 1923. The kiosk information on the *Cuba* will complement an existing museum exhibit, featuring a six-foot model of the *Cuba* pre-loss, an underwater diorama of the present wreck site, and historic artifacts recovered at the time of loss. For more information about the Santa Barbara Maritime Museum

please visit <http://www.sbmm.org/>. For more information about the shipwreck *Cuba* please visit <http://channelislands.noaa.gov/shipwreck/dbase/cinms/cuba1.html>.

Regional Maritime Heritage Program



Brad Barr and Robert Schwemmer recently traveled to Wainwright, Alaska to find remains of a whaling fleet lost in the 1870s. Photo: Robert Schwemmer.

Alaska Expedition to Research Lost 1871 Whaling Fleet
In July, Schwemmer joined Brad Barr (NMSP Senior Policy Advisor to the Director) in Barrow and Wainwright, Alaska to conduct interviews with expedition partners and Inupiat elders. Building upon previous efforts with the State of Alaska and working with the Barrow Arctic Science Consortium, NMSP researchers are planning to conduct a unique archaeological survey to find elements of the whaling fleets lost in the 1870s. NOAA maritime heritage efforts in Alaska continue an established nationwide program of research, exploration, education, long-term protection and management of America's underwater historical treasures. In August 1871, a fleet of 32 whaling ships arrived to hunt bowhead whales in Alaska's remote Chukchi Sea. The pack ice, being close to shore that year, left little room for the vessels. The whaling captains counted on a wind shift from the east to drive the pack out to sea. Instead, the moving ice trapped the fleet against the coast, and 1,219 men, women, and children made their way to the southwest in open boats in search of rescue. The archaeological remains of this fleet are windows into this tragic event. During a flight

CHANNEL ISLANDS: STORIES FROM THE PAST

One-hundred fifteen years ago this month, the Los Angeles Times reported on September 14, 1892 [in part] the following story. "GOING TO PIECES. A British Ship Ashore on Santa Rosa Island. San [sic] Barbara. – The British ship *Golden Horn* went ashore off the south end of Santa Rosa Island at 8 o'clock last night. The crew numbered twenty-eight. No lives were lost. The vessel will probably be a complete wreck. She was seventy-two days out from Newcastle, N. S. W., and was loaded with coal for San Pedro.

The officers and crew arrived here at 6 o'clock this evening. Capt. Dunn, the master of the vessel, was seen, and gave the following particulars of the wreck: The ship was sailing though a heavy fog when the outlook reported "Land ahead." Every effort was made to get out of the place, but the wind seemed to lull, and before the ship would answer her helm, her bow struck the bottom. Finding it would be impossible to get her off, and the vessel aft sinking rapidly, the men put off in small boats. When they left her she was completely gutted aft, a heavy sea breaking over her."

Russell and Co. of Greenock, England built the *Goldenhorn* for J.R. de Wolf and Son in 1883. The *Goldenhorn's* home port was Liverpool. *Goldenhorn* was the middle of three sister ships, preceded by the *Matterhorn* in 1882, and followed by the *Silberhorn* in 1884. These three vessels were built to the same plan, with relatively minor improvements effected in the later versions. Originally ship rigged, *Goldenhorn* became a bark by 1886. *Silberhorn* vanished at sea in 1907, and *Matterhorn* foundered off Umatilla Reef, now part of the Olympic Coast National Marine Sanctuary, in 1909.



The British ship *Goldenhorn* wrecked on the south side of Santa Rosa Island in 1893. For more information on the *Goldenhorn* please visit the following web pages:

<http://channelislands.noaa.gov/shipwreck/dbase/cinms/goldenhorn.html>
<http://channelislands.noaa.gov/shipwreck/dbase/cinms/goldenhorn1.html>

from Barrow to Wainwright, Schwemmer located a 19th century shipwreck in the surf zone. The following day, a team of archaeologists and local bear guards traveled in all-terrain-vehicles to the wreck site to document the remains.



A 19th century shipwreck located from the air by Robert Schwemmer and subsequently documented by archaeologists during a recent expedition to Alaska. Photo: Robert Schwemmer.

Central Coast National Marine Sanctuaries

During August, Schwemmer traveled to San Francisco to help develop the Gulf of the Farallones National Marine Sanctuary (GFNMS) Condition Report. This report will describe the status and trends of water quality, habitat, living resources, and maritime archaeological resources and the human activities that affect them, within GFNMS. While in the region, Schwemmer met with GFNMS staff to discuss the upcoming expedition to locate the remains of the 1871 lost whaling fleet and the fleet's linkages to San Francisco, and conducted research on the whaling fleet at the J. Porter Shaw maritime library. Schwemmer also visited museum staff at Moffett Airfield where the USS *Macon* was once housed in Hanger No. 1 before being lost off Point Sur, now part of the Monterey Bay National Marine Sanctuary (MBNMS). Other site visits included Pigeon Point Lighthouse, where staff recently installed new sanctuary maritime heritage exhibits, and a meeting with a local sport fisherman to discuss the possible discovery of the shipwreck *San Juan* in MBNMS. As a result of a collision with the tanker *SCT Dodd* in 1929, only 42 passengers and crew survived of the 115 on board the *San Juan*. For more information on the 2006 USS

Macon expedition please visit

<http://sanctuaries.noaa.gov/missions/2006macon/welcome.html>. For more information on the *San Juan* please visit

<http://montereybay.noaa.gov/reports/2003/eco/site.html>.



The dirigible USS *Macon* was once housed in Hanger No. 1 (pictured here) before being lost off Point Sur (now part of the Monterey Bay National Marine Sanctuary), in 1935. Photo: Robert Schwemmer.

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

Recent Updates

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

Check out the Marine Reserves web section for the Final Environmental Impact Statement and Final Rule for the establishment of marine reserves and marine conservation areas now in effect. Updates to the Marine Reserves home page, as well as supplemental documents are now available online at <http://channelislands.noaa.gov/marineres/main.html> and <http://channelislands.noaa.gov/marineres/supplemental.html>.

The MERITO Academy website is now available online at <http://channelislands.noaa.gov/edu/merito.html>.

The Teacher at Sea web site has been updated to offer the 2007 remotely operated vehicle (ROV) field season at <http://channelislands.noaa.gov/edu/tas.html>.

The Management Plan area of the site has been updated to host new updates to the overview, process / future steps and current status pages:

<http://channelislands.noaa.gov/manplan/overview.html>
http://channelislands.noaa.gov/manplan/cur_status.html
<http://channelislands.noaa.gov/manplan/futuresteps.html>



The Advisory Council area of the site now features new member status, along with updated meeting minutes and highlights at:

<http://channelislands.noaa.gov/sac/minutes.html>
<http://channelislands.noaa.gov/sac/member.html>

Don't forget to check out our calendar of events to find out what's happening locally:

<http://channelislands.noaa.gov/focus/calendar.html>.

Upcoming Modifications

Upcoming Modifications

Discussions are in progress to facilitate the installation of three interactive touch screen kiosks in Santa Barbara Harbor, the Oxnard California Welcome Center, and Island Packers. Management Plan updates, and the final shipwreck database coordinates posting are on deck for September.

Please take a few moments to peruse the site. Your feedback is greatly appreciated. Comments and suggestions can be sent to amy.cale@noaa.gov.



NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) AND NATIONAL MARINE SANCTUARY PROGRAM (NMSP) NEWS



California "Thank You Ocean" Campaign Notified of 2007 Coastal America Partnership Award

The California "Thank You Ocean" campaign and team are the recipients of a 2007 Coastal America Partnership Award, "for outstanding efforts to restore and protect the coastal environment." The award, one of eight in the country, recognizes the team's efforts to instill in Californians a sense of personal connection and responsibility to their ocean and coast. The "Thank You Ocean" team's approach to communicating the challenges facing ocean and coastal environments was outlined as "unique and exemplify[ing] a holistic aquatic ecosystem restoration approach." The Aquarium of the Pacific nominated the campaign for the partnership award, "Recognizing outstanding efforts to protect, preserve and restore coastal resources and to increase public awareness and education." For more information visit www.coastalamerica.gov and www.thankyouocean.org.

Historic Changes to Boston Shipping Lanes Will Protect Whales

For the first time in the Nation's history, shipping lanes in and out of Boston were shifted on July 1 to reduce the threat of ship strikes on critically endangered right whales and other species in and around the Stellwagen Bank National Marine Sanctuary. Thanks in large part to extensive research conducted by NMSP staff, the International Maritime Organization approved the decision to shift the heavily traveled shipping lanes slightly to the northeast—a move that will reduce the risk of ship collisions with right whales by up to 58 percent, and other whale species by up to 81 percent. More information is available in a June 28 press release available at: http://stellwagen.noaa.gov/news/newsreleases/2007_06_28_TSS.pdf.

New Geographic Information System (GIS) Technique Helps Identify Wounds on Entangled Marine Mammals

Researchers from the National Centers for Coastal Ocean Science (NCCOS) are using ArcGIS software from Environmental Systems Research Institute, Inc. to identify wound markings on the skin of entangled marine mammals. The markings are “mapped” and compared to simulated impressions from various fishing gear, nets, and lines. This allows the researchers to match the actual wound patterns to the unique characteristics of specific fishing gear. When animals are found stranded but no gear is attached to their bodies, the technique can be used to identify the type of fishing gear that entangled them.

National Geographic Society Highlights National Marine Sanctuaries

The National Geographic Society's JASON Foundation for Education will feature two national marine sanctuaries and the Papahānaumokuākea Marine National Monument in their upcoming aquatic ecology curriculum. The curriculum presents representative aquatic ecosystems around the world featuring oceans, lakes, rivers, and estuaries to highlight the complexity and richness of living systems in water. Students will contrast and compare the ecosystems, and learn about the importance of maintaining ecologically healthy bodies of water.

NOAA-funded Alternative to Animal Testing Proposed for Shellfish Safety

Researchers at the University of North Carolina at Wilmington have developed a new method to detect harmful algal bloom toxins. The method—called ELISA, for enzyme-linked immunosorbent assay—could serve as an alternative to the current method of using live mice to test shellfish for the toxins that cause neurotoxic shellfish poisoning (NSP). NOAA's NCCOS funded the research. Neurotoxic shellfish poisoning is one of several extremely harmful food poisonings of global distribution caused by the ingestion of algal toxins that can accumulate in shellfish. The mouse bioassay is currently the National Shellfish Sanitation Program's approved regulatory method for detecting NSP-causing toxins in mollusks. The proposed ELISA is a more accurate, efficient, and sensitive test.

Sanctuary Superintendent Administers Oath of Federal Service to Famed Underwater Cinematographer John Brooks

John Brooks started his new job as a NOAA federal employee with the National Ocean Service's Ocean Media Center on August 5. Brooks had previously been working for the Ocean Media Center while on loan from the US Fish and Wildlife Service. Chris Mobley had the distinct honor of “swearing in” Brooks on behalf of the National Ocean Service. Mr. Brooks has worked on numerous public and private underwater films and has advanced underwater cinematographic technology, working with famous directors such as James Cameron (Titanic), and with major studios such as Disney.

Maritime Heritage Program Launches *Hassler* Expedition Website

The NMSP has launched the 2007 *Hassler* Expedition website, at <http://sanctuaries.noaa.gov/maritime/expeditions/hassler>. The *Hassler*, an iron ship built in 1871, was, in its day, the most technologically advanced science and survey vessel in the U.S. Coast Survey fleet. At the wreck site in southeastern Alaska, researchers documented the ship's architectural details through still photography, video, and sketches, studied the wreck as a feature of a larger maritime cultural landscape, and compiled sufficient data to support the nomination of the wreck to the National Register of Historic Places. The expedition was a joint project between NMSP, the Alaska Office of History and Archaeology, the NOAA Office of Ocean Exploration, NOAA Office of Coast Survey, and the Sea Education Association of Woods Hole Oceanographic Institution. The study of the wreck provides an important look at a transitional era in American shipbuilding and illuminates the role of the U.S. Coast Survey in furthering knowledge of U.S. geography.

Web Site Addresses Human Dimensions and Natural Resource Management

The NOAA Coastal Services Center joined with federal, academic, and nongovernmental partners to launch a new interagency Web portal as part of a workshop at the International Symposium on Society and Resource Management in Park City, Utah. The portal, HD.gov will serve as a one-stop shop for human dimensions information related to natural resource management.

THREE-MONTH CHANNEL ISLANDS NATIONAL MARINE SANCTUARY CALENDAR

SEPTEMBER	
Sep. 11, 12	<p><i>From Shore to Sea Lecture Series:</i> Marla Daily, Santa Cruz Island Foundation <i>Carey Stanton's Santa Cruz Island, 1937-1987</i> Tuesday: 7:00 pm Santa Barbara Maritime Museum (113 Harbor Way in Santa Barbara) Wednesday: 7:00 pm Channel Islands National Park Visitor Center (1901 Spinnaker Drive in Ventura)</p>
Sep. 15	<p><i>23rd Annual Coastal Cleanup Day 9:00 a.m. to 12:00 p.m.</i> Channel Islands National Marine Sanctuary Sponsored Beaches: Santa Barbara: Chase Palm Park Beach Ventura: Emma Wood State Beach For more information: http://www.coastal.ca.gov/publiced/ccd/ccd.html</p>
Sep. 21	<p><i>Sanctuary Advisory Council Meeting</i> Casa Las Palmas (323 E. Cabrillo Blvd. in Santa Barbara) An agenda, directions and more information will be posted at: channelislands.noaa.gov/sac/announcement.html</p>
OCTOBER	
Oct. 9, 10	<p><i>From Shore to Sea Lecture Series:</i> Chris LaFranchi, Natural Equity <i>Understanding Boater Use of the Channel Islands</i> Tuesday: 7:00 pm Santa Barbara Maritime Museum (113 Harbor Way in Santa Barbara) Wednesday: 7:00 pm Channel Islands National Park Visitor Center (1901 Spinnaker Drive in Ventura)</p>
Oct. 13	<p><i>Santa Barbara Harbor & Seafood Festival</i> Santa Barbara Harbor 10 am to 5 pm For more information: http://www.santabarbaraca.gov/Visitor/Things/Waterfront/Harbor And Seafood Festival.htm</p>
NOVEMBER	
Nov. 6, 8	<p><i>Channel Islands Naturalist Corps Volunteer Orientation Meetings</i> Tuesday, Nov. 6, 6:30 pm at Chase Palm Park, 236 E. Cabrillo Blvd., Santa Barbara Thursday, Nov. 8, 6:30 pm, Channel Islands National Park Headquarters, 1901 Spinnaker Drive, Ventura. For more info. please visit: http://channelislands.noaa.gov/edu/edu_sessions.html, or contact shauna.bingham@noaa.gov (805) 382-6149 x102</p>
Nov. 13, 14	<p><i>From Shore to Sea Lecture Series:</i> Russell Galipeau, Channel Islands National Park & Chris Mobley, Channel Islands National Marine Sanctuary <i>Changes on the Channel Islands and Surrounding Waters</i> Tuesday: 7:00 pm Santa Barbara Maritime Museum (113 Harbor Way in Santa Barbara) Wednesday: 7:00 pm Channel Islands National Park Visitor Center (1901 Spinnaker Drive in Ventura)</p>
Nov. 16	<p><i>Sanctuary Advisory Council Meeting</i> Channel Islands National Park Visitor Center (1901 Spinnaker Drive in Ventura) An agenda, directions and more information will be posted at: channelislands.noaa.gov/sac/announcement.html</p>
Select September – November Nature Sightings	<p>Blue Whales (late-May through September), Pink-Footed Shearwaters and Sooty Shearwaters (May through October) and Red-necked Phalaropes (August – October), Ashy and Black Storm Petrels (mid-May to mid-October), jellies (August through November).</p> <p>For more nature sightings information visit: http://channelislands.noaa.gov/seasons/september.html. You can also record data about your own mammal sightings, as well as learn about past mammal sightings using our marine mammal sightings database: http://www.cisanctuary.org/mammals/.</p>

CINMS Staff

Santa Barbara Harbor Office

Christopher Mobley – *Superintendent*
Todd Jacobs – *Deputy Superintendent*
Amy Cale – *Web Developer*
Laura Francis – *Education Coordinator*
Sean Hastings – *Resource Protection Coordinator*
Steve Katz – *Research Coordinator*
Charles Lara – *Vessel Operator*
Dani Lipski – *Research Assistant*
Sarah MacWilliams – *Management Plan Specialist*
Michael Murray – *Advisory Council and
Management Plan Coordinator*
Luman Moody – *Vessel Captain*
LTJG Kate Peet – *Operations Officer*
Robert Schwemmer – *Regional Maritime Heritage Coordinator*
Natalie Senyk – *Scientific Advisor*
Terrence Shinn – *Vessel Captain*
Ben Waltenberger – *Physical Scientist*
Rebecca Young – *Inventory/Database Coordinator*

Ventura County Field Office

Shauna Bingham – *Volunteer Program and Outreach
Coordinator*
Julie Bursek – *Education Coordinator*
Clare Fritzsche – *CINMS Volunteer Program & Administrative
Assistant*
Lorri Herr – *Program Support Specialist*
Rocío Lozano de Knowlton – *Bilingual Education & Outreach
Specialist*
Tina Reed – *Administrative Support Coordinator*

CINMS Interns

Michael S. Henry – *Policy, Planning, and Resource Protection
Intern*

NMSP West Coast Region Staff

William Douros – *Regional Superintendent*
Matt Brookhart – *Policy Coordinator*
Nicole Capps – *Management Support Specialist*
Dave Lott – *Operations Coordinator*

NMSP Staff

Columbine Culberg – *Ocean Etiquette Program Manager /
Liaison to Aquarium of the Pacific*
Claire Fackler – *West Coast Education Liaison*
Sarah Marquis – *West Coast Media Coordinator*

Channel Islands Marine Sanctuary Foundation

Kelly Darnell – *Acting Executive Director*

Learn More About Your Sanctuary

The Channel Islands National Marine Sanctuary produces the Sanctuary Superintendent's Report in conjunction with bi-monthly Sanctuary Advisory Council meetings. To learn more about the sanctuary please visit our web site at: <http://channelislands.noaa.gov>.

To learn more about the Sanctuary Advisory Council please visit:

<http://channelislands.noaa.gov/sac/main.html>.

The National Marine Sanctuary Program

The National Marine Sanctuary System consists of 14 marine protected areas that encompass more than 150,000 square miles of marine and Great Lakes waters from Washington State to the Florida Keys, and from Lake Huron to American Samoa. The system includes 13 national marine sanctuaries and the Northwestern Hawaiian Islands Marine National Monument." The NMSP, which manages the system, was established under the National Marine Sanctuaries Act of 1972. Visit the NMSP web site at: <http://sanctuaries.noaa.gov/>.

Channel Islands National Park

To learn about Channel Islands National Park visit their web site at: <http://www.nps.gov/chis/homepage.htm>.

GET INVOLVED AND STAY INFORMED!

To learn how to get involved in the sanctuary visit:

<http://channelislands.noaa.gov/focus/involved.html>

Sign up for the CINMS listserv to receive email notices about upcoming sanctuary events, and public meetings of the Sanctuary Advisory Council and its working groups:

<http://channelislands.noaa.gov/focus/list.html>

- CONTACT INFORMATION -

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