



Channel Islands National Marine Sanctuary Sanctuary Superintendent's Report



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A report for the Sanctuary Advisory Council

November 2011

ABOUT THIS REPORT

The Sanctuary Superintendent's Report highlights recent accomplishments and activities from program areas at the Channel Islands National Marine Sanctuary (CINMS or sanctuary). This report is provided to the Sanctuary Advisory Council (SAC) in March, July, and November, and is also available online at channelislands.noaa.gov.

Launch of Channel Islands Sanctuary Foundation Announced

At a public meeting of the Channel Islands National Marine Sanctuary Foundation on September 23rd, 2011, Dennis Long announced that operation of the Channel Islands Sanctuary Foundation will soon begin. Dennis, who is Executive Director of the Monterey Bay Sanctuary Foundation (MBSF), has made arrangements for the MBSF to expand and begin also doing business as the Channel Islands Sanctuary Foundation. The news was greeted with enthusiasm by the advisory council and several members of the public attending the meeting. As a next step, Dennis will be recruiting for a liaison position within the Santa Barbara and Ventura county area. The purpose would be to advise the MBSF Board on opportunities and needs to help advance the Channel Islands Sanctuary Foundation. The new Foundation will work to compliment the umbrella role of the National Marine Sanctuary Foundation, as is done with the MBSF. Media coverage included a positive article in the weekly Santa Barbara Independent:

<http://www.independent.com/news/2011/sep/21/helping-government-help-channel-islands/>.

Sanctuaries' Acting Deputy Director Visits Channel Islands National Marine Sanctuary
NOAA Office of National Marine Sanctuaries Acting Deputy Director Bill Douros spent two days (Oct. 13-14) meeting with staff from the CINMS. In addition to sharing with all staff a number of announcements and developments from ONMS headquarters, Mr. Douros met with staff from each of the office program areas: vessel operations, facilities planning, education and outreach, resource protection, and research. Douros also toured the construction site of the new sanctuary office building at UC Santa Barbara, and joined a planning meeting with partners at the UCSB Marine Science Institute concerning the funding and development of the future Outreach Center for Teaching Ocean Science (OCTOS). The main reason for Douros' visit

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 approximately 1,470 square miles adjacent to the following islands and offshore rocks: San Miguel Island, Santa Cruz Island, Santa Rosa Anacapa Island, Island, Santa Barbara Island, Richardson Rock, and Castle Rock, extending seaward to a distance of approximately 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, invertebrates, marine mammals and sea birds. The sanctuary also contains 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. Sanctuary staff coordinate research, monitoring, education, outreach, emergency response, and community involvement programs, as well as the enforcement of regulations, to promote long term resource protection and compatible human use within the CINMS.

was to participate in the groundbreaking ceremony for the Channel Islands Boating Center (see other “Groundbreaking Ceremony” below).

Department of Commerce Budget Office Representative Visits Channel Islands National Marine Sanctuary

Steve Brescia, an analyst with the Department of Commerce Budget Office’s Division of Technology and Environment Programs, was given a tour of CINMS on October 27, 2011. While in town to attend a NOAA satellite launch at Vandenberg Air Force Base, Mr. Brescia made time for a friendly visit to his first sanctuary site to see what it is like and learn more about our vessels, facilities and education programs. He was hosted and accompanied by sanctuary superintendent Chris Mobley, deputies Todd Jacobs and Michael Murray, education coordinator Laura Francis, Luke Nachbar (NOS Constituent Affairs), and Dave Lott of the ONMS West Coast Regional Office. After an initial tour of the Santa Barbara Harbor office, an orientation discussion about sanctuaries, and visits to nearby interpretive signs in the harbor, Mr. Brescia rode on the sanctuary small boat SHARK CAT to rendezvous with the sanctuary research vessel SHEARWATER, which was conducting an oceanography expedition in the Santa Barbara Channel. Mr. Brescia was able to briefly discuss the domoic acid research project with the chief scientist and get a quick tour of the vessel and its capabilities. From there, Mr. Brescia was taken up to the UC Santa Barbara campus and given a tour of the new building currently under construction. One wing of the building will house the sanctuary’s new administrative offices, and the other wing will house an education and outreach center to be run in partnership by the sanctuary and university. Mr. Brescia met with the university’s construction project managers and with Dr. Mark Brezinski, Director of the university’s Marine Science Institute. Finally, Mr. Brescia was taken to nearby Coal Oil Point, where he observed junior college students conducting a LIMPETS field research project. LiMPETS (Long-term Monitoring Program and Experiential Training for Students) is an environmental monitoring and education program for students, educators, and volunteer groups developed to help monitor the ocean and coastal ecosystems of California’s National Marine Sanctuaries.

EDUCATION, OUTREACH, AND VOLUNTEERS

Groundbreaking Ceremony for new Channel Islands Boating Center

On Friday, October 14, 2011 the Ventura County Board of Supervisors and the Channel Islands Harbor Foundation celebrated the official groundbreaking for the new Channel Islands Boating Center in Oxnard, California. Bill Douros, Office of National Marine Sanctuaries Acting Deputy Director, was a featured speaker at the ceremony, along with several local elected officials and other distinguished guests. NOAA’s Office of National Marine Sanctuaries has provided support to develop exhibits for the new Boating Center. The Boating Center’s exhibits will promote responsible visitor use of the Channel Islands National Marine Sanctuary by providing information about ocean etiquette techniques, safety and awareness of the sanctuary’s regulations and marine protected area network. In addition, the exhibits will highlight the incredible biodiversity of the Channel Islands and Santa Barbara Channel from microscopic plankton to blue whales by focusing on the unique features of the islands’ remote, isolated position at the confluence of the two major ocean currents and prevailing weather patterns that support those conditions. Exhibits will also feature some of the more prominent shipwrecks of the Channel Islands and Santa Barbara Channel to bring attention to the natural hazards that exist around the Channel Islands. Ventura County is one of the fastest growing counties in California, with more than 144,000 K-12 students and 31,000 community college students. Currently, there is a lack of boating and marine science programming for youth in Ventura County, despite the fact that the county is home to three harbors and more than 22,000 registered boaters. The new Channel Islands Boating Center in Channel Islands Harbor will serve these audiences. It is estimated that more than 15,000 annual visitors will participate in programming at the new Center.

Channel Islands staff attends Climate 2020 Workshop at USC

Staff members from the CINMS attended a climate change workshop on October 19, 2011 hosted by the University of Southern California's (USC) Dornsife College of Letters, Arts, and Sciences in association with the USC Sea Grant program. The focus of the workshop was Integrating Science and Societal Implications in the Southern California Bight. Featured speakers were Dr. Reinhard "Ron" Flick who spoke about sea level rise; Dr. Daniel Mazmanian who spoke on California's climate change policy, Dr. Richard Feely of NOAA who spoke about ocean acidification, and Mr. Larry Pryor, who discussed effectively communicating climate change information to the public. Two panel discussions were held during the day to discuss how climate science can be integrated into public outreach and policy. CINMS staff attending were Julie Bursek, Team Leader for Education and Outreach; Laura Francis, Education Coordinator; and Dani Lipski, Research Specialist. CINMS has been proactive in creating climate and ocean acidification research and outreach initiatives. Connecting with the larger Southern California research and education community is key to confronting this global issue. More information can be found at: <http://dornsife.usc.edu/socal-climate-change/outreach/>.

Sanctuary Educator Provides Training for Docents at Santa Barbara Maritime Museum and Outdoor Santa Barbara Visitor Center

On November 2nd, CINMS Education Coordinator Laura Francis presented an overview of the sanctuary, including marine life, ocean currents, research, education and resource protection issues, to thirty volunteers and docents at the Santa Barbara Maritime Museum and Outdoors Santa Barbara Visitor Center. The docents were very engaged with the presentation and asked many excellent questions in order to better understand the role of the sanctuary in protecting the ocean environment.

Sanctuary Educator and Channel Islands Naturalist Corps Volunteer Participate in Teacher Open House at the Ty Warner Sea Center

On November 3rd, Sanctuary Education Coordinator Laura Francis and Channel Islands Naturalist Corps Volunteer Barbara Lacorte participated in an "After Hours at the Sea Center" open house and behind the scenes tour designed to provide teachers with information about local watershed education opportunities. Thirteen local organizations and more than 40 local teachers and educators, including CINMS, Channel Islands National Park, University of California Santa Barbara, Channel Islands Restoration and Santa Barbara Botanic Garden, participated in the event, which was put together by the Santa Barbara Watershed Education Team (SBWET) -- a network of local organizations that promote education and healthy watersheds in the Santa Barbara area. The CINMS Education Coordinator serves as an advisor for SBWET which is funded through the California Bay Watershed Education and Training (BWET) program.

21 Educators Enrolled for MERITO Academy Program in 2011-2012; 590 Students to be Reached

On November 4th and 5th, the CINMS MERITO (Multicultural Education for Resource Issues Threatening Oceans) Academy, in partnership with the Channel Islands Marine Resource Institute, trained 21 educators during the sixth MERITO Academy Educator's workshop, held at the Santa Monica Mountains National Recreation Area's Satwiwa Cultural Center, and at Santa Cruz Island. The 21 trained educators agreed to teach the MERITO Academy curriculum to their students during the school year, even though reduced funding availability may not allow for boat transportation to the Channel Islands. The educators accepted into the program will receive year-round support on use of the program curriculum, introductory in-class presentations, and instruction by MERITO Academy bilingual staff during coastal field experiences. This coming year 14 classes will receive sponsorship for bus transportation to two coastal sites, while six afterschool classes will pay for their own land transportation. One Fillmore school district high school teacher who listened-in will opt to teach the curriculum to her students on her own.

Through the academy, 590 minority students from six cities along the Santa Barbara Channel region will receive science programming integrated into 4th to 7th grade level public education and extended learning programs. This is down from a level of 900 students last year. All students are enrolled in Title 1 schools and after-school programs certified for low income families. The MERITO Academy is a marine education and conservation program partially funded by Amgen Foundation, the Channel Islands National Marine Sanctuary, and in-kind contributions by several organizations including City of Oxnard, City of Santa Barbara, Santa Monica Mountains National Recreation Area and US Fish and Wildlife Service. With strong demand and support from educators, the MERITO Academy program at CINMS continues to help meet the needs of students, schools and families in sanctuary communities. In a difficult budget climate the key to the program's ability to operate continues to be grants and partnership arrangements.

MARITIME HERITAGE

Channel Islands National Marine Sanctuary Completes Successful Shipwreck Expedition

During the first week of November a four-day shipwreck reconnaissance expedition on board the NOAA R/V *Shearwater* was completed at the Channel Islands National Marine Sanctuary. The expedition included recording the remains of a newly discovered shipwreck *George E. Billings* that was located in February of 2011 off Santa Barbara Island. The new discovery was not revealed until the site could be fully recorded during last week's expedition which involved a team of scientists from the sanctuary, Channel Islands National Park Service and the Coastal Maritime Archaeology Resources organization. This is the first shipwreck discovery at the Channel Islands during a NOAA sanctioned expedition. Although *George E. Billings* final days of service was as a commercial fishing barge off Southern California, the 5-masted schooner had a significant history in the Pacific maritime trade hauling lumber from the Pacific Northwest to Hawaii, Mexico, South America, Australia and Southern California. The vessel was one of only six 5-masted schooners built on the Pacific Coast during the half century of sailing ship construction prior to 1905 and was the last large sailing ship built by the Hall Brothers at Port Blakeley, Washington. While at Santa Barbara Island the team also searched for wreckage associated with the F/V *Dante Alighieri II* lost in 1938, but due to low visibility at the site the wreck was not relocated. The science team also searched for rigging reported off Santa Rosa Island that could be associated with the 3-masted lumber schooner *Dora Bluhm* that was lost at the island in 1910. The *Dora Bluhm*, along with 3-masted schooners *Comet* and *J. M. Colman* lost at San Miguel Island, and *Billings*, were all built by the prolific shipbuilding firm Hall Brothers. During the final day of the expedition, the team was able to gain access to the rarely visited shipwreck *Cuba*, a cargo-passenger steamship that was lost in 1923 at Point Bennett off San Miguel Island. Point Bennett is one of the most exposed locations off the northern Channel Islands, where large swells typically sweep over the wreck site. The dive team completed a visual survey of the *Cuba* recording still and video imagery that included the two large triple-expansion steam engines and boilers that still sit upright on the sea floor.

RESEARCH, MONITORING AND VESSEL OPERATIONS

First Phase of Shipyard Repairs and Upgrades Completed for R/V Shearwater

A significant repair and upgrade contract for the CINMS Research Vessel *Shearwater* was issued in July 2011. On September 26th phase one of three was completed at the Ventura Harbor Boat Yard. Upgrades included installation of a clean power system consisting of two 4kw inverterchargers, a power monitoring system, and a large battery bank. The new system is capable of delivering clean 110VAC uninterruptable power for sensitive electronics. The vessel was also fitted with hard points on the deck and outer shell plating to accommodate hydrophone poles. In addition to upgrades, a round of repairs was made to minor

cracks in the bow stringers and frames. A second phase is due to start the second week of November with the major item being a replacement of an outdated, partially functional closed circuit camera system.

Groeware Technologies teams up with Channel Islands National Marine Sanctuary to produce Mobile Marine Mammal Sightings Field Data Collection System

On November 9, Hrair Achkarian, President and CEO of Groeware Technologies, met with Natalie Senyk, Shauna Bingham, Ben Waltenberger and Mike Murray from the CINMS to advance work on a demonstration project of mutual interest. Groeware, in partnership with Verizon, has provided a few prototype touch-screen tablet devices loaded with an e-form version of the sanctuary's marine mammal sightings data collection sheet. Use of the e-form and tablet device, which could also be any smart phone or brand of tablet, holds the potential to significantly streamline, accelerate and improve the accuracy of the marine mammal data recording task tended to by Channel Islands Naturalist Corps volunteers. These volunteers survey for marine mammals while riding aboard local whale watch and marine tour vessels, recording over 1,000 sightings per year on paper data sheets. Through automated wireless transmission, the prototype product is also expected to significantly improve the data entry and data management tasks associated with post-processing of collected sightings forms. As vessel-based whale sightings data become more rapidly available, this can help staff detect when whale ship strike risk conditions might be on the rise in the Santa Barbara Channel shipping lanes, in turn triggering a series of local area notices to the shipping industry. During his visit, Mr. Achkarian also enjoyed learning about other sanctuary programs and data transmission needs, prompting discussions about the potential for additional product applications to improve oil spill and incident response as well as law enforcement reporting functions. Groeware is a private company based in Toronto that provides e-Form technology to automate data collection and management processes, and that can run on Android, iPhone, Blackberry or other devices.

Channel Islands Mooring System Maintained

Throughout fiscal year 2011, sanctuary research staff maintained a network of 14 mooring sites around the northern Channel Islands that record currents, temperature, and acoustic tag activity. Staff divers serviced the moorings from the R/V *Shearwater* and R/V *Sharkcat*. The data are used to characterize oceanographic conditions in the sanctuary, and have recorded tagged fish, such as sevengill sharks originally tagged in San Francisco Bay, indicating connectivity between west coast sanctuaries. This is an ongoing sanctuary partnership with the Partnership for Interdisciplinary Studies of Coastal Oceans (PISCO) and scientists from California State University, Long Beach.

United States Coast Guard Supports Shipping Lane Aerial Surveillance To Look for Endangered Whales

On October 5, 2011 the United States Coast Guard (USC) Los Angeles based Air Station supported a helicopter overflight of the Traffic Separation Scheme in the Santa Barbara Channel and CINMS with a sanctuary staff observer. No whales or ships were observed on this flight. The USCG provides aerial monitoring support from spring through fall to support NOAA's efforts to reduce the threat of ship strikes on endangered whales.

RESOURCE PROTECTION

U.S. Coast Guard Study recommends Modifying Vessel Traffic Lanes in and around Channel Islands National Marine Sanctuary to Protect Whales

On November 1, 2011 a notice of availability was published in the Federal Register for the U.S. Coast Guard's completed Port Access Route Study for vessel approaches to the ports of Los Angeles and Long Beach. Recommended vessel traffic modifications, which stem directly from NOAA input, call for:

- Creating traffic lanes south of the Channel Islands to increase predictability by providing a defined route for vessel traffic transiting south of the islands.
- Decreasing the width of the separation scheme in the Santa Barbara Channel to help in preserving the marine environment. The current separation scheme would be reduced from 4nm to 3nm, moving the southern inbound lane 1nm toward the northern lane, and reducing the separation zone between the lanes from 2nm to 1nm. The northern outbound lane would remain in place. Decreasing the width of the separation zone and shifting the southern lane 1nm to the north, will move vessel traffic away the Channel Islands National Marine Sanctuary.

Should the Coast Guard decide to move ahead with the proposed modifications, a federal rulemaking process will be conducted, to include consultations with NOAA (National Marine Fisheries Service and Office of National Marine Sanctuaries). Proposed shipping lane modifications would also require approval by the International Maritime Organization.

Earlier this year, staff from the Channel Islands National Marine Sanctuary (CINMS), NMFS Southwest Regional Office Protected Resources Division, and NMFS Southwest Regional Fisheries Science Center collaborated to provide the U.S. Coast Guard whale-related information and recommendations to be considered in the Port Access Route Study (PARS). Data provided included over a decade's worth of whale sightings in the Santa Barbara Channel collected by trained volunteers with the Channel Islands Naturalist Corps. The Sanctuary Advisory Council also provided a detailed comment letter and input at several Coast Guard briefings over the past two years.

Channel Islands National Marine Sanctuary participates in “Safe Passage for Whales and Ships in the Santa Barbara Channel,” a Workshop to Discuss Reducing Ship Strikes and Air Pollution

On September 28th, 2011, representatives from the CINMS, National Marine Fisheries Service (NMFS) Southwest Regional Office of Protected Resources, Santa Barbara County Air Pollution Control District, U.S. Coast Guard, and the Environmental Defense Center (EDC) participated in a workshop to discuss issues surrounding whales and shipping in the Santa Barbara Channel. The workshop was an opportunity to bring experts together to discuss the complex issue of shipping impacts on whales and air pollution. Sean Hastings spoke on behalf of CINMS efforts, highlighting past Sanctuary Advisory Council recommendations on the ship strike issue in the Santa Barbara Channel. Hastings also emphasized new research that may contribute to future efforts with outreach to the industry. Penny Ruvelas from NMFS discussed the complexity of the issue, both in terms of the varying behaviors of different whale species and addressing challenges of multiple user groups with overlapping interests. Brian Shafritz from the Air Pollution Control District spoke about the effects of vessel speed reduction on emissions, and connected the potential for benefits to both human health and protecting whales. Mike VanHouten from the U.S. Coast Guard discussed the recent Port Access Route Study that will address safe navigation of vessels in the region, the findings from which are expected at the end of October 2011. Brian Segee from the EDC provided information from a non-governmental organization perspective, pointing to the need for agencies to execute strategies to protect marine mammals as directed by the Endangered Species Act as well as the Marine Mammal Protection Act. In a common theme of the workshop, Hastings, Ruvelas and VanHouten all emphasized the need for collaboration among agencies, the shipping industry, Navy and all affected stakeholders involved in the issue.

Settlement Reached on Groundfish Violations in the Channel Islands National Marine Sanctuary

NOAA General Counsel for Law Enforcement has settled a 2007 case involving Magnuson-Stevens Fishery Conservation and Management Act fishing violations in the Channel Islands National Marine Sanctuary. The vessel owner/operator had one count of long line fishing in the Rockfish Conservation Area, two counts of bottom fishing in the Footprint Marine Reserve Essential Fish Habitat Conservation Area, and one count of bottom fishing in the Gull Island Marine Reserve Essential Fish Habitat Conservation Area. The owner/operator will pay \$5000 over six months, and will also be on probation for two years.

23-Foot Vessel Aground at Santa Rosa Island in Channel Islands National Marine Sanctuary

On October 28th sanctuary staff received a confirmed Coast Guard report of a partially submerged 23-foot fiberglass boat, the *Escape*, which ran aground off Santa Rosa Island (between east and skunk point). The vessel was reported anchored in 15 feet of water, with approximately 50 gallons of gasoline on board. The owner, who was reported to have vessel insurance, boarded a good Samaritan's vessel returning to Newport Harbor. Vessel Assist subsequently retrieved the vessel and removed it from the Park and Sanctuary.

Channel Islands National Marine Sanctuary meets prospective 2012 California Sea Grant Fellows

On November 9, 2011 CINMS staff participated in a workshop to match 2012 California State Sea Grant Fellow finalists with prospective agency hosts. Sanctuary representatives involved in the interview process included Kristen Hislop (2011 Sea Grant Fellow assigned to the sanctuary), Sean Hastings (Resource Protection Coordinator) and Mike Murray (Deputy Superintendent for Programs). The fellowship provides an educational opportunity for graduate students who are interested in marine policy. The program matches graduate students and recent graduates with hosts in State or Federal agencies in California for a 12-month full time paid fellowship. The 2012 class includes 12 finalists who will be placed with 11 State agencies and one Federal agency (CINMS). The fellow placed with CINMS will assist with in a variety of management issues on both the site and regional levels, working closely with Resource Protection Coordinator Sean Hastings along with the other California sites. The main focus for the 2012 fellowship will be ship strikes on whales along the California Coast. Staff look forward to working with the incoming fellow. Support for placing a Sea Grant fellow at CINMS in 2012 was provided by west coast regional and ONMS headquarters leadership back in August 2011, and will also be supported by the Channel Islands Marine Sanctuary Foundation and California Sea Grant. The California Sea Grant fellowship program not only provides opportunities for recent graduates to acquire "on the job" experience in the planning and implementation of marine and coastal resource policies and programs, but also helps host sites by providing a valuable resource that may not be possible without this type of collaborative funding.

Sanctuary Staff

Santa Barbara Offices

Christopher Mobley *Superintendent*
Todd Jacobs *Deputy Superintendent for
Administration and Operations*
Michael Murray *Deputy Superintendent for Programs*
Shauna Bingham – *Volunteer Program & Outreach Coordinator*
Amy Cale – *Web and Kiosk Developer*
LT Matt Davis – *Operations Officer*
Laura Francis – *Education Coordinator*
Matt Fulda - *Intern*
Sean Hastings – *Resource Protection Coordinator*
Kristen Hislop – *California Sea Grant Fellow, 2011*
Dr. Stephen Katz – *Research Coordinator*
Charles Lara – *Vessel Captain*
Dani Lipski – *Research Specialist*
Robert Schwemmer – *Regional Maritime Heritage Coordinator*
Natalie Senyk – *Physical Scientist*
Terrence Shinn – *Vessel Captain*
Ben Waltenberger – *Physical Scientist*
Rebecca Young – *Program Support Specialist*

Ventura County Field Office

Julie Bursek – *Team Leader for Education and Outreach*
Rocío Lozano de Knowlton – *MERITO Program Coordinator*

ONMS West Coast Region Staff

William Douros – *Regional Director*
Lisa Wooninck – *Policy Coordinator*
Nicole Capps – *Management Support Specialist*
Dave Lott – *Operations Coordinator*

Local ONMS Staff

Claire Fackler – *West Coast Education Liaison*
Sarah Marquis – *West Coast Media Coordinator*
Matt Pickett – *ONMS Aviation Coordinator*

Learn More About Your Sanctuary

The Channel Islands National Marine Sanctuary produces the Sanctuary Superintendent's Report in conjunction with every other bi-monthly Sanctuary Advisory Council meeting. 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>.

Office of National Marine Sanctuaries (ONMS)

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 Papahānaumokuākea Marine National Monument. The ONMS, which manages the system, was established under the National Marine Sanctuaries Act of 1972. Visit the ONMS 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>

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