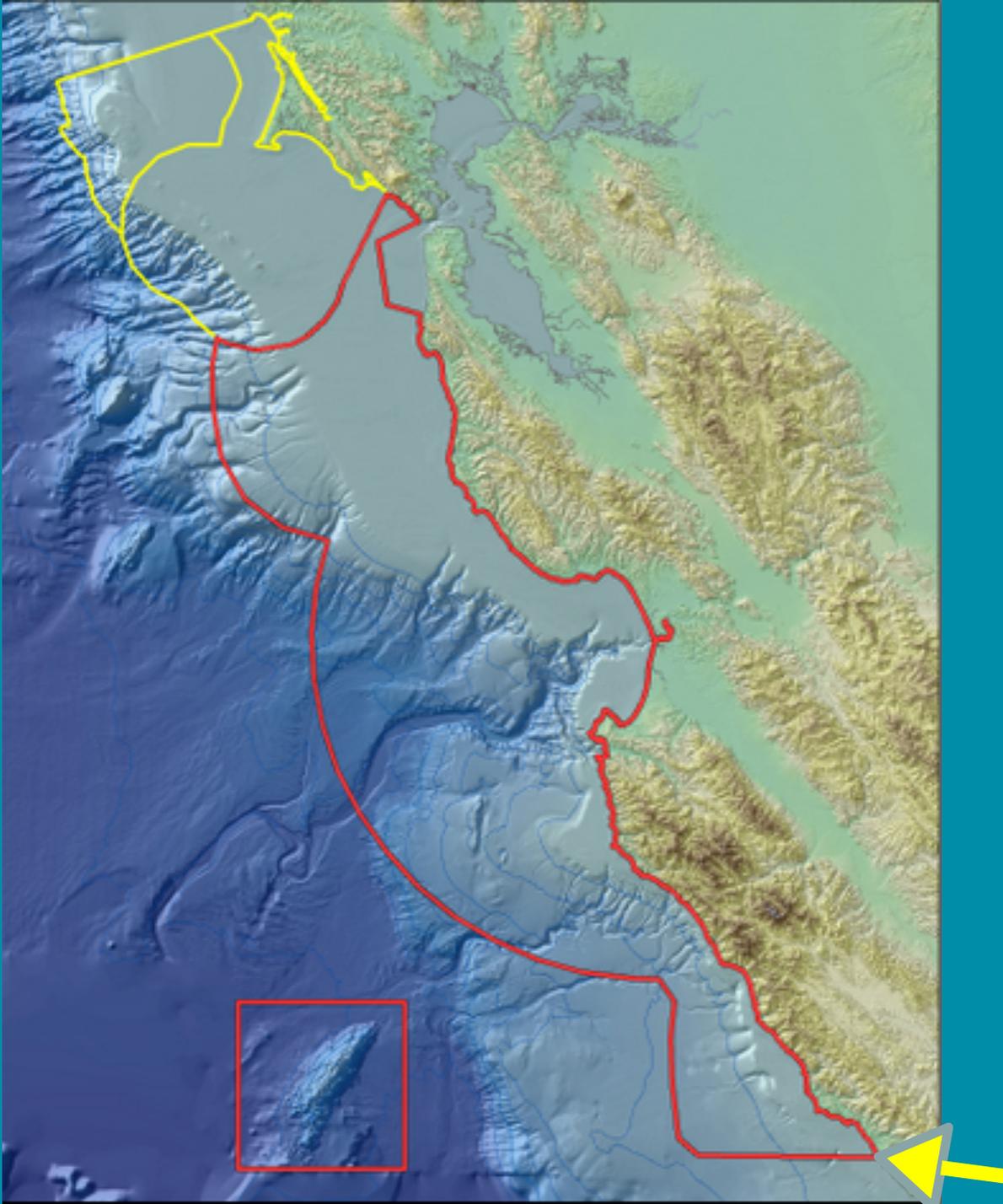




Monterey Bay National Marine Sanctuary & Coastal Discovery Center Update - 2018

Overview

- *Sense of place
- *CDC programs
- *Partnerships
- *Operations

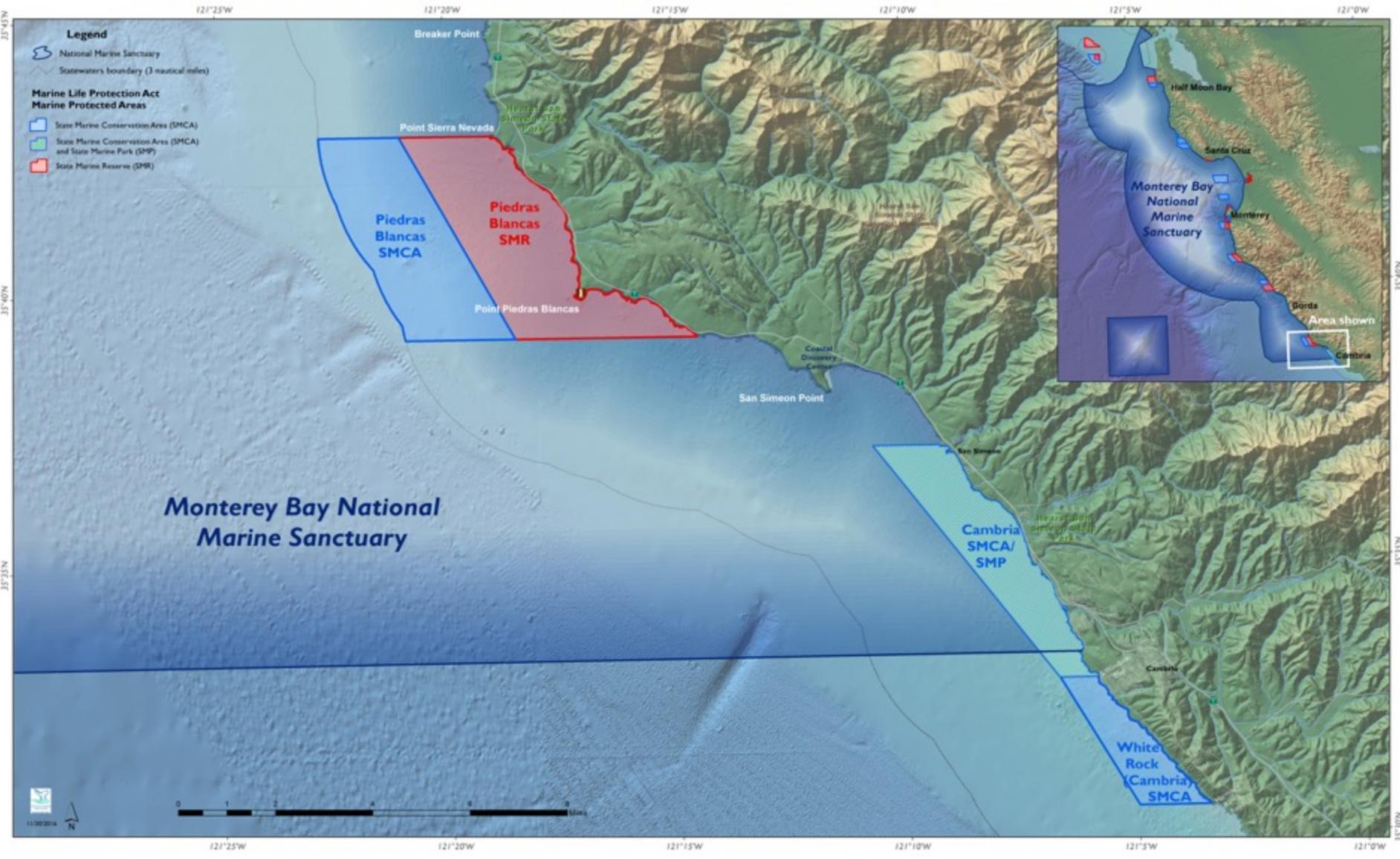


Big Sur





Marine Protected Areas in Monterey Bay National Marine Sanctuary



Our Living Marine Resources

**BLM/CA Coastal
National Monument**

**BLM/Piedras Blancas
Light Station**



POINTS of INTEREST

Coastal Discovery Center at San Simeon Bay (805) 927-6575



BLM
PBLs

State
Parks

Hearst
Day use

SLO County

Hearst

Kayak
tours

Coastal
Discovery
Center

State Parks

Hearst
Castle

CA State waters (to 3 mi)

Monterey Bay National Marine Sanctuary



Our Living Marine Resources

Marine Mammals: 36 sp

Seabirds/shorebirds: 180+ sp

Fish: 525 species

Turtles: 4 species

Invertebrates: 31 phyla

Marine algae: 450 species



Our Living Marine Resources



The interface of land and sea is unique, drawing people for its rich bounty, economic opportunity, recreation and inspiration. Protection of these special places preserves them for use and enjoyment for generations to come.



Coastal Discovery Center Services

Education and Outreach

- School groups
- Public programs
- Center interactive exhibits
- Docent training/enrichments
- Jr Ranger Guide program
- Interpretive signage (20)
- Outside ocean mural, shore whaling
- Updated information kiosks
- Resource for species ID
- Host visitors and VIPs



Citizen Science Monitoring

- CDHS Harmful Algal Bloom
- Beach COMBERS
- LiMPETS Rocky Intertidal
- Water quality – Snapshot Day
- Beach Clean-ups



Coastal Discovery Center Services

Park Safety/ Enhancement

- Liaison for agencies and NGOs
- Address visitor concerns and emergencies
- Alert CSP to potential public hazards
- School program beach cleanups
- CSP Foundation Earth Day project
- Native gardens and back education area
- Post CDHS and NOAA signs



Wildlife Protection

- Assist the Marine Mammal Center
- Assist Pacific Wildlife Care
- Field MBNMS regulatory questions
- Assist researchers

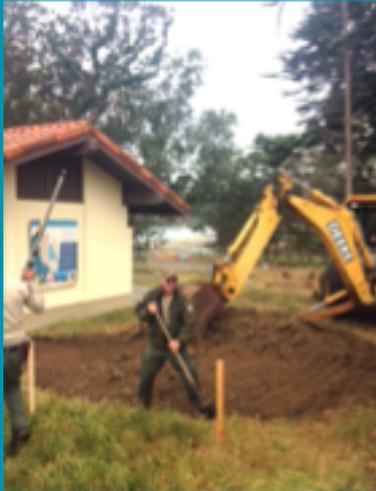
Coastal Discovery Center Exhibits



- Agency partnership
- Watersheds/steelhead
- Plankton
- Ocean exploration
- Wildlife viewing
- History of SS Bay

Coastal Discovery Center Exhibits

Shore whaling



Coastal Discovery Center

Education Programs

Guided:

Schools and special groups

- Watersheds
- Pier oceanography
- Plankton monitoring
- Marine mammals
- Whales/ shore whaling
- Tidepool communities
- Beach exploration
- Marine debris
- LIMPETS
- History of SS Bay

Discovery Saturdays

- Similar to above

Self-guided:

- Junior Ranger Adventure Guide
- Litter Getter
- Binocular check-out



Docents



- Ambassadors to CSP and MBNMS
- Educate over 16,000 visitors/yr
- Teach school students
- Outreach, Ocean Fair
- Citizen scientists



Schools



600-1,000 students/yr

10,000 students to date

Schools

Leffingwell High School 9 years and counting...



Schools

(quotes from Leffingwell HS)

"Opportunities like the marine biology class is what opened my eyes to see the community around me." Kelly Wolf, Valedictorian

"I loved the Marine Biology program. It was better to have the hands-on experience than reading about it in a textbook in class. I felt I learned more by being taught outside near the ocean and seeing/doing it myself. Each activity was always fun." - Faith Romero

"Being able to learn other than in a classroom, and having the opportunity to be outside being taught nature with what's actually in front of my eyes, was a very exciting experience. I would want to take this class again." Alex Campos

"This program was great because it was more than just marine biology. It gave me insight into history, chemistry, and biology." - Daniel Wedel

"Local kids that live in San Simeon never went to the beach until they took this class, let alone be in the water kayaking. They would not take the initiative were it not for this class." Nina Margo, Instructional Aide

"These kids work in town and are now interpreters for their local beaches and ocean, They have even volunteered as Elephant seal ambassadors." Grant Phillips

"This is the type of program we would like to see more of. It is one of the most popular programs in LHS, and we can see why. Please keep it going." Western Association of Schools and Colleges for California



Vision: Every Child Deserves a Place to Grow

NOAA BWET

Since, 2014, OCE has received funding through the NOAA BWET (Bay Watershed Education and Training) Program to provide a **10 session intensive watershed education experience for over 2000 students from 2014 to 2017** in Paso Robles, Arroyo Grande, Nipomo and Oceano. The program responds to local water issues including drought and groundwater overdraft.

NOAA Marine Debris Program

In 2016, OCE was awarded a Marine Debris Program grant **to work with 17 schools in Atascadero and Paso Robles school districts**. Each school participated in a multi-part education program, including a waste audit, school assemblies, special presentations to lead classrooms, teacher trainings, field trips to the ocean, and the setup and operation of a zero waste program to reduce marine debris.

Schools

UC CA Naturalist Program
<http://coastalinstitute.org/calnat/>



Outreach



Outreach

Earth Day w/ Greenspace





Mermaid month –Cayucos Library



BLM – Natl Conservation lands 15th Anniversary.



Cambria Middle School at Santa Cruz Isl



Cal Poly open house



NATIONAL MARINE
SANCTUARIES

Get INTO YOUR Sanctuary

The central graphic features a large, stylized white outline of a teardrop shape. Inside this shape is a white silhouette of a whale breaching the water. Below the whale, the words "NATIONAL MARINE SANCTUARIES" are written in a clean, sans-serif font. A blue paddle is positioned horizontally across the middle of the teardrop. Below the teardrop, a blue scuba fin and a blue key are also visible. The word "Get" is written in a large, white, cursive font, "INTO YOUR" is in a smaller, white, sans-serif font, and "Sanctuary" is in a large, white, cursive font. The entire graphic is set against a teal background.

Outreach

Ocean Fair (Aug 25th)



Citizen Science





Docent Field Trips

SeaLife Stewards, Morro Bay
Visits Team Ocean and SEC



Docent Field Trips



Partners

in coastal and marine conservation

*Bruce Gibson's office * CA State Parks and Recreation * State Water Resources Control Board * California Department of Fish & Game * National Marine Fisheries Service * U.S. Geological Survey * U.S. Fish & Wildlife Service *CA Dept of Fish and Wildlife *BLM/PBLS *CA Coastal National Monument * California Coastal Commission * OSPR * Morro Bay NEP

* California State University, Santa Barbara * Cal Poly *UC System * Camp Ocean Pines * Camp Keep *One Cool Earth *Central Coast Aquarium * Cambria Education Foundation * Cuesta College * Leffingwell HS * Coast HS *Cambria Middle School *Cayucos Public Library * Paso Robles Public Library

* Marine Mammal Center * Pacific Wildlife Care * Friends of the Elephant Seal * SLO County Partners for Water Quality * Coastal Salmon Enhancement * Seabird Protection Network * Friends of Fiscalini Ranch Reserve * Seaforyourself Kayaks *Sea Otter Savvy *Greenspace

* CA Marine Sanctuary Foundation * Friends of Hearst Castle * San Simeon Tourism Association * County Business Improvement District (SLO County) * Cambria Tourism Board * Hearst Theater * The Cambrian/SLO Tribune *Sebastians *Hearst Winery *Hearst Corp.

Whale Trail Signage

Donna Sandstrom w/ MBNMS, CSP, CBID, SSTA

Whale Trail logo

Welcome to The Whale Trail Cayucos

California Whale Trail Sites

Cayucos is home to many species of marine wildlife, and the pier is one of the best spots to see them! Watch sea birds, dive, others float, or dolphins surf. Scan the horizon for whale spouts or breaches. Listen for sea lions barking on Whose Rock.

Keep birds, to the left, provide protection and food for marine mammals. Explore the tide pools to the north and see more wildlife including starfish, sea anemones, crabs, or sea urchins.

Be a wildlife steward. Give animals the space they need to eat, rest, and socialize. Keep your distance and please do not touch, feed, or chase wildlife. Enjoy and help protect this diverse and fragile marine environment.

Orca (Killer Whale)
Adult length: 26-32 feet
Orcas live in tightly bonded families called pods, and roam the Pacific Coast in search of prey such as grey whales or seals.

Gray Whale Adult length: 25-30 feet
Look for gray whales close to shore during winter and spring, as they travel between summer feeding grounds in the Arctic to winter calving lagoons in Mexico.

Humpback Whale Adult length: 40-60 feet
Commonly seen from spring through fall, humpbacks feed on schools of anchovies, sardines or fish. They often leap clear of the water, landing with a thunderous splash.

Blue Whale Adult length: 85-100 feet
Blue whales can move along the entire California coastline during summer and fall searching for their prey—great swarms of krill.

Bottlenose Dolphin Adult length: 8-12 feet
Bottlenose dolphins are year-round residents and usually stay close to shore along sandy beaches, traveling just outside the breakers.

Harbor Seal Adult length: 3-6 feet
Shy and curious, harbor seals rest on offshore rocks and often watch people on the shore. In spring, they congregate on protected beaches to give birth and nurse their young.

Northern Elephant Seals Adult length: 10-12 feet
Although they spend a lot of time feeding offshore, elephant seals come to beaches to breed, pup or rest. In winter, huge males battle to create territories of females, while new pups are born.

Southern Sea Otter Adult length: 3.3-4.3 feet
Sea otters use small rocks to crack open shells, abalone and sea urchins. They rest wrapped in kelp to keep from drifting away and spend hours grooming to keep their fur waterproof.

California Sea Lion Adult length: 6-7.5 feet
Noisy sea lions pack onto rocks or rest together in the water in "rafts," sleep and eat, they haul offshore for fishes and squid.

CAYUCOS logo

Discover more at www.thewhaletrail.org
Learn more about coastal events, activities, wildlife viewing tips, and accessibility at WhaleTrail.org/our-visit

Partners

Tourism



SAN SIMEON
VisitSanSimeonCA.com

*"Where the Pines
meet the Sea"*



CAMBRIA CHAMBER OF COMMERCE

767 MAIN STREET, CAMBRIA, CA 93428

Explore California's

Highway 1 Discovery Route

of San Luis Obispo County



Big Sur Coast National Scenic Byway
Ragged Point



Pristine beaches, scenic landscapes and regional wines form the perfect backdrop for the ultimate road trip through Coastal San Luis Obispo County.



Customize
Your Vacation

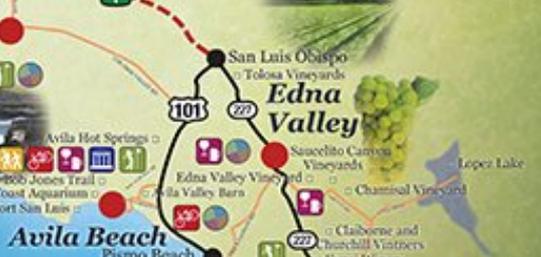


Where to find sage local advice? Visit Highway1DiscoveryRoute.com to create specialized itineraries for your interests: great dining, romance, history, wine tasting, farm touring, and outdoor adventures. You'll find a complete list of hotels, motels, bed and breakfasts and vacation rentals as well as a calendar of events. Look for meaningful Stewardship Travel activities and ways to contribute.



**Los Osos/
Baywood Park**

Montaña De Oro State Park



Avila Beach

Pismo Beach

Edna Valley

Edna Valley Vineyard

Arroyo Grande Valley

Laetitia Winery

Nipomo

Black Lake Golf Resort

- Hiking
- Biking
- Wine & Beer Tasting
- ATV Access
- Historic/Museums
- Golf
- Stewardship Travel

VISIT
Highway1DiscoveryRoute.com

Scan this code for
fantastic lodging options:





Coastal Discovery Center at San Simeon Bay (Monterey Bay National Marine Sanctuary)

#11 of 12 things to do in San Simeon

○○○○○ 21 reviews

"Great stop" 09/22/2015

"Beautiful Area" 09/01/2015

Specialty Museums



Carolyn Skinder
Program Coordinator, Coastal Discovery Center

A screenshot of a TripAdvisor travel page for the Coastal Discovery Center. The page header includes the "California Highway 1 Discovery Route" logo and navigation links for "STAY", "PLAY", "EAT", "EVENTS", "TOURS & ITINERARIES", "VIDEO GALLERY", and "TRAVEL BLOG". Below the header is a search bar with the text "Home - Carmel" and a "GO" button. The main content area features a blue banner with the title "Stewardship through Citizen Science at the Coastal Discovery Center". Below this is a social media share icon, a date "Mar 31 2015", and the author's name "Carolyn Skinder" with her title "Southern Regional Program Coordinator, NOAA Monterey Bay National Marine Sanctuary, Director Coastal Discovery Center". A large photograph shows a man in a blue shirt kneeling on a wooden pier, interacting with three children. Below the photo is the caption "Stewardship through Citizen Science at the Coastal Discovery Center". A smaller photograph shows a woman and a child looking at a computer monitor in a museum setting. The text below describes the Coastal Discovery Center as an interpretive center run by the Monterey Bay National Marine Sanctuary (MBNMS) in collaboration with California State Parks. It offers interactive exhibits and education programs that highlight the natural and cultural history of the area and promote stewardship through hands-on experiences such as the plankton citizen science program. The text explains that participants help MBNMS staff collect water samples off of San Simeon Pier, along with chemical and physical measurements, then go back to the Center to examine life in a drop of water using a video microscope. Once magnified, tiny algae and animals come to life, and the beginning of the ocean food chain is realized for the first time. The text concludes by stating that in addition to their important role in the food chain and as producers of oxygen world-wide, some plankton can produce a toxin harmful to wildlife and humans. For this reason the California Department of Public Health is interested in the data our citizen scientists collect, and results and samples are sent to a laboratory to be further analyzed. A small photograph of a family is visible in the bottom right corner of the page.

Ocean Stewardship



Local Ocean Heroes



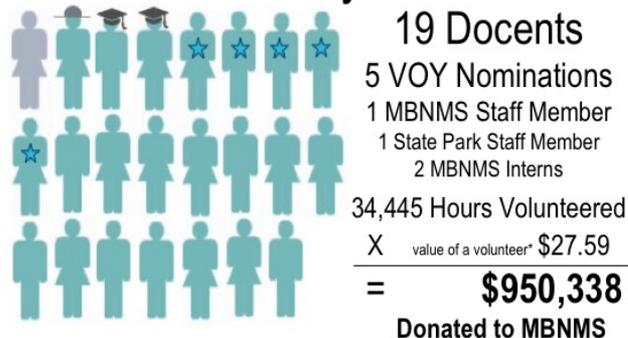
Local Ocean Heroes



MONTEREY BAY NATIONAL MARINE SANCTUARY

Coastal Discovery Center 2006-2018

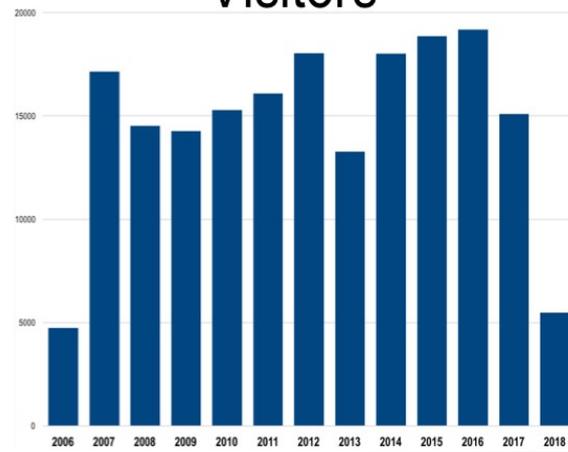
Coastal Discovery Center Team



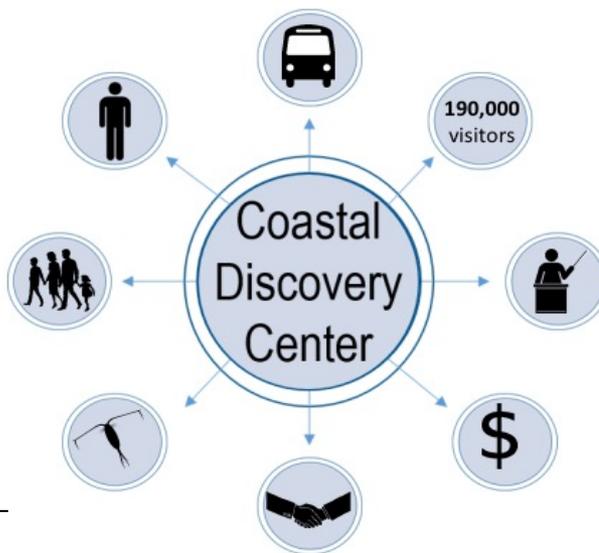
School Groups



Visitors



Outreach Events



MBNMS Lecture Series



Citizen Science Projects



Partners in Protection



Funding



*The value of a volunteer hour in 2018 as determined by the Independent Sector.

