



# THE CHANGING TIDE

Summer 2007

## Global Warming and You

We've heard it all before: Climate scientists agree that Earth's climate is warming. The main causes are emissions of greenhouse gases like carbon dioxide (CO<sub>2</sub>) from the burning of fuels. Some effects seen thus far are changes in the chemical composition and salinity of the oceans and other waterways, as well as changes in water temperature. These changes have a wide range of impacts, from pressure on ecosystems of fish and other species, to lower levels of available drinking water.

At first glance this information may sound like doomsday news. But here is the good news: everyone can take simple actions to turn the tide on global warming. We all have the power to make smart choices that make a difference.

Check out the boating tips on the back cover. Find out how boaters can save money on fuel, decrease CO<sub>2</sub>, and protect our recreational waterways for future generations.

## ★ HAPPY ★ CAL★BOATING BIRTHDAY

CALIFORNIA DEPARTMENT OF BOATING AND WATERWAYS ★ EST. 1957

The year 2007, marks the 50<sup>th</sup> anniversary of the Department of Boating and Waterways (Cal Boating). For 50 years Cal Boating has been serving California in its mission to provide safe and convenient public access to the millions of visitors who use California's navigable waterways.

Contributing \$16 billion to the economy annually, it comes as no surprise that recreational boating is a popular leisure time activity. In return, Cal Boating programs have aided boaters to enjoy California's beautiful and plentiful waterways.

Funded by vessel registration fees, boating fuel tax dollars, and boating facility construction loan payments, Cal Boating's programs include:

- ⚓ *Voluntary education for boaters of all ages*
- ⚓ *Aquatic weed control in the Sacramento-San Joaquin Delta*
- ⚓ *Coastal beach erosion control*
- ⚓ *Officer training, financial aid, and equipment grants for the more than 100 local and state agencies that provide boating law enforcement*
- ⚓ *Loans for the construction of marina and grants to build boat launching ramps*
- ⚓ *Vessel sewage pumpout station grants*
- ⚓ *Grants to local agencies for the removal of abandoned vessels.*



To celebrate Cal Boating's 50th anniversary, and its contributions to California, a new logo has been created.

This new logo will usher Cal Boating into the next 50 years of service to the boaters of California. It represents the leadership and guidance it has provided throughout the nation as both an innovator and an advocate for boating safety and access.

For more information, visit [www.dbw.ca.gov](http://www.dbw.ca.gov) or [www.BoatSmarter.com](http://www.BoatSmarter.com)



**bay restoration foundation**  
STEWARDS OF SANTA MONICA BAY



CALIFORNIA  
COASTAL  
COMMISSION



A California Clean Boating Network Publication Presented by the Santa Monica Bay Restoration Foundation, California Coastal Commission, and the Keep the Delta Clean Program in cooperation with the California Department of Boating and Waterways and the California Integrated Waste Management Board

# Southern California Chapter *Los Angeles, Orange, Riverside, Ventura & San Bernardino Counties*

## Are you emptying your holding tank successfully?

The Santa Monica Bay Restoration Foundation continues to run its Marina del Rey Boating Study, a project funded by Cal Boating.

This summer, SMBRF staff and volunteers are conducting intercept interviews at Marina del Rey pumpout stations. Boaters pulling up to pumpouts are asked to participate in this first of a kind study. Boaters will be interviewed about their experience with pumpouts, perceptions on sewage disposal in Marina del Rey, and personal characteristics.



How do boaters in Marina del Rey typically dispose of their sewage waste?



What has been their experience with public pumpout facilities in the harbor?



What do boaters in Marina del Rey know about sewage disposal?

We will better understand who is using the harbor and what activities they generally engage in. We will also begin to connect user attributes with sewage disposal habits. This knowledge will increase the ability of environmental educators to effectively reach their target population and elicit positive behavior changes towards improved environmental quality in Santa Monica Bay.

This study was made possible with the help from the following businesses and organizations. Thank you for your support!

Bay Club Marina  
California Yacht Club  
Dolphin Marina  
Fairwind Yacht Club  
Holiday Harbor Marina  
Marina City Club  
Marina Harbor Anchorage  
Neptune Marina  
Panay Way Marina  
Pier 44/Dock 77  
Santa Monica Windjammers  
Yacht Club  
Tahiti Marina  
The Boatyard Marina  
Villa del Mar Marina

### **RAFFLE PRIZE DONORS**

California Pizza Kitchen  
Casa Escobar  
Chipotle  
El Torito  
Magic Mountain  
Sport Chalet  
The Boat Yard  
The Ritz-Carlton  
The Warehouse Restaurant  
Tony P's Dockside Grill  
West Marine

## MARINA DEL REY Boating Study

Do you boat in Marina del Rey?

We need your expertise!  
Take 10 minutes to fill out and return the enclosed survey.  
Win a new handheld GPS and other prizes!



Presented by the Santa Monica Bay Restoration Foundation and California State University, Fullerton  
Funding provided by the Department of Boating and Waterways and the Environmental Protection Agency



As part of Santa Monica Bay Restoration Foundation's Boating study, this booklet was sent out to as many boaters in Marina del Rey as SMBRF could reach. Thanks to the help of marinas, yacht clubs, and boating organizations, SMBRF was able to distribute 3,800 booklets. Most boaters received the booklet with their monthly slip bills, but booklets may have been placed on boats.

In order for the information we collect to truly represent the boaters in Marina del Rey, it is important that each questionnaire be completed and returned. So, if you haven't completed and mailed your booklet, do it now! And sign up for the raffle!

If you would like a questionnaire, please contact Grace Lee at (213) 576-6648 or [glee@waterboards.ca.gov](mailto:glee@waterboards.ca.gov).



## Program Spyglass

*Many Programs Exist to Provide Cleaner, More Healthful Waterways; These are the Programs to Watch*



### **Port of Los Angeles Marina Oil Recovery Centers**

Used oil filters may contain hazardous material like lead, other heavy metals, and oil-based compounds. Used oil must be managed as hazardous waste.

Used oil filters can contain more than 45% used motor oil in weight when removed from the vessel.

The Port of Los Angeles now maintains nine Marina Oil Recovery Centers for the collection and recycling of used oil, oil filters, and oil absorbents. Once tenants of participating marinas change their oil, they simply bring it to the Marina Oil Recovery Center, obtain the key to the tank from the marina office, and dispose of the used oil, filter, or absorbent pad into the designated receptacle.

Please note, it is crucial boaters do not mix their used oil with gasoline, paint, solvent, water, or any other substances. Contaminated used motor oil cannot be re-refined and recycled. Find out if your marina has a oil recovery center! Also, tenants of these marinas may ask their marina operator for a free oil absorbent pad.

Zn

## Zinc Anodes; Soda Cans of the Sea

Too much zinc can make water too acidic and can seriously disrupt marine life and habitats according to studies done by the Bay Conservation and Development Commission in San Francisco and by Rand Afrikaans University.

Zinc anodes affixed to boat metal are the soda cans of boating. Boaters can recycle them and, if brought to a scrap metal recycling center or returned to the manufacturer, a boater can recoup some costs of purchasing the anodes.

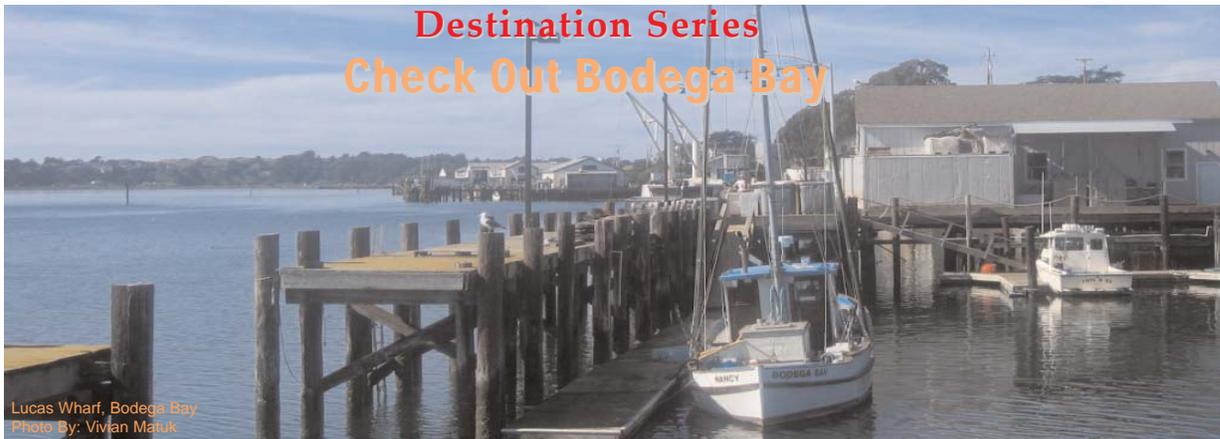
Boaters affix zinc anodes to their boats to absorb barraging electrical charges in sea water that lead to metal corrosion and electrolysis.

Once a zinc anode is corroded beyond a certain point, however, they serve no use as a barrier between electrically charged (“hot”) marina water and a boat’s metal parts. Even though they must be replaced, the old anodes aren’t junk - *They can be recycled.*

Most boaters hire divers to replace their used anodes, according to Tony Nash, dockmaster at the Santa Monica Yacht Club. Sometimes divers leave used anodes on the dock to show their work to their clients. Not knowing what to do with the used anodes, some boaters leave them on the docks or discard them into the water where the real damage is done.

Mike Dolan said that most boaters don’t care to see that anodes are replaced. Dolan, who owns Pro Tech Dive Service, one of the services that replace used zincs, says he sends used zincs he replaces back to the manufacturer to be recycled.

As of yet, no recycling containers exist for boaters to use in Southern California harbors, which can make recycling used zincs burdensome for some people. However, by recycling used zincs, the next time boaters go fishing and find fish to catch, they can have the peace of mind that they are helping keep fish abundant and making a few bucks doing it.



Lucas Wharf, Bodega Bay  
Photo By: Vivian Matuk

## Destination Series Check Out Bodega Bay

**Bodega Bay** is located on the Pacific Coast in Sonoma County, sixty-eight miles north of San Francisco. The area was first inhabited by the Olamentko (or Coast Miwok). The Bay is named after Don Juan Francisco de la Bodega y Quadra who visited the Harbor in October 1775. Bodega Bay's history is enriched by Russian, American, Mexican and European settlers and explorers who found the Bay's geography, weather and natural resources unique.

The Harbor is home to a large commercial fishing fleet and offers many activities for its visitors. If you want to enjoy fresh seafood, a close-up view of fishing boats at work, year-round fishing (salmon, halibut, rock cod, ling-cod among others) and the fish market (Lucas Wharf), Bodega Bay is the place to visit. The annual (late April) Fisherman's Festival is a fun, two-days community event that draws 25,000 visitors. More information about this festival can be found at [www.bbfishfest.com](http://www.bbfishfest.com)

Visitors can also enjoy the migration of the gray whales and see the sea lions and seals below the cliffs when visiting Bodega Head. North of Bodega Head you will find Campbell Cove where the 192-foot deep hole known as "Hole in the Head" is found. This pool was created for a nuclear power plant, but fierce opposition by local residents resulted in the pool becoming an area for wildlife. North of Campbell Cove is the Bodega Marine Laboratory and the Bodega State Marine Reserve. Guided tours at the lab feature numerous marine aquarium displays and an overview of the marine research laboratory ([www.bml.ucdavis.edu/](http://www.bml.ucdavis.edu/)).

Bodega Bay is very diverse. Bird Walk, Pinnacle Gulch or the Short Tail Gulch trails offer great wildlife

viewing. The Bay is also a popular camping destination. Campsites are found at Bodega Bay RV Park, Doran Regional Park, Sonoma Coast State Beach, Westside Regional Park and Porto Bodega Bodega Marina & RV Park. Other activities for visitors include kayaking, bicycling, wind surfing, horseback riding, as well as a variety of museums, shops and restaurants.



Map Resource: California Coastal Commission, 2005  
"Experience the California Coast A Guide to Beaches and Parks in the Northern California."

## Boating in Bodega Bay

Bodega Bay is a popular destination for year-round recreational boaters and visitors. There are three marinas in Bodega Bay that offer a variety of environmental services for the boating community (see the box below).

Contributing Writer: Vivian Matuk (Boating Clean & Green Campaign)

### Marinas in Bodega Bay

**SPUD POINT MARINA**  
Address: 1818 Westshore Road Bodega Bay, CA 94923  
(707) 875-3535

**ENVIRONMENTAL SERVICES**  
Used Oil Collection (Free)  
Oil Filter Collection (Free)  
Marine Battery Drop-off (Free)  
Bilge Pumpout (Free)  
Sewage pumpout (Free)  
Oil Absorbent Distribution (Fee involved) Used Oil Absorbent Collection (Free)  
Other Services: Showers, laundromat, boat yard, restrooms and boat launch ramp.

**MASON'S MARINA**  
Address: 1820 Westshore Road Bodega Bay, CA 94923  
(707) 875-3811

**ENVIRONMENTAL SERVICES**  
Used Oil Collection (free)  
Marine Battery Drop-off (free)  
Oil Absorbent Exchange Program (Distribution and Collection) Free  
Other Services: Gas, diesel and propane, quick market and nearby restaurants.

**PORTO BODEGA MARINA**  
Address: 1500 Bay Flat Road Bodega Bay, CA 94923  
(707) 875-2354

Services: Restrooms, showers, laundry, nearby restaurants.

Boat launch ramps are available at Doran Park and Westside Park

Save the  
Date!

August 18, 2007

Free Seminar at  
South Beach Harbor:  
Your Boat Hull, Water  
Quality & Invasive  
Species

You're invited to a free seminar to learn about:

- ✓ Invasive species that have been brought here on boat bottoms,
- ✓ Their impacts on California waterways,
- ✓ What you can do to prevent invasive species from being transported on your boat bottom, and
- ✓ Nontoxic bottom paints and their long-term performance results from a demonstration project.

The California Department of Boating and Waterways, University of California Sea Grant Extension Program, and California Coastal Commission will conduct the free seminar **on Saturday, August 18th at South Beach Harbor from 10:00 a.m. to Noon.**

*Refreshments provided by Sea Grant.*

**Location:** South Beach Harbor (Harbor Service Building), The Embarcadero at Pier 40, San Francisco, CA 94107.



For questions or to request accommodations for a disability, please contact: Jamie Gonzalez at [jagonzalez@ucdavis.edu](mailto:jagonzalez@ucdavis.edu) or (858) 694-3414

## California Seabirds Need Your Help

The Gulf of the Farallones  
National Marine Sanctuary's

"Seabird Colony Protection Program" aims to improve the survival of California's seabird populations by reducing human disturbances at their breeding and resting sites on the North-Central California Coast.

Seabirds can be found breeding and resting on cliffs or offshore rocks, or feeding or rafting on the ocean surface all throughout California. Some seabirds are burrow-nesting or nocturnal, so they are not always easy to spot. Seabirds are long-lived animals with low reproductive rates. To breed successfully and maintain populations, they have evolved to nest in areas that are inaccessible to most land predators.

All seabirds are highly susceptible to human disturbances, which can come from the land, air and sea. Activities



Common Murre

such as kayaking, boating, diving, wildlife viewing, hiking, flying planes and helicopters, and operating fisheries that fish or anchor near colonies, can cause a disturbance event. Boaters can help let seabirds thrive by following these tips:

- ✓ Avoid rocks, reefs, and islands where seabirds rest, feed and nest.
- ✓ Note bird behaviors such as head bobbing, calling, or fluttering. These are signs that you are too close.
- ✓ While fishing, keep all food and bait covered. Do not throw fishing line overboard, and use barbless hooks or artificial lures when possible.

For more information, please visit: [www.farallones.noaa.gov/boaters.html](http://www.farallones.noaa.gov/boaters.html) or contact us at [california.seabird@noaa.gov](mailto:california.seabird@noaa.gov)



Photo By: Gulf of the Farallones National Marine Sanctuary



## DOCKWALKER

### Get on Board!

This Summer Become a  
**DOCKWALKER** and Help Boating  
Be Clean, Safe and Fun!

The California Coastal Commission and the California Department of Boating and Waterway's **DOCKWALKERS** program trains volunteers about environmentally sound boating.

Dockwalkers distribute boater kits while visiting marinas, boat launch ramps, boat shows and events. The kits include oil absorbent pillow, information about safe and clean boating, a ski flag, a floating key chain and more. Dockwalkers talk to boaters and provide information on clean boating prac-

tices and the locations of local environmental services that help make it convenient to boat clean and green.

This program is dedicated to the idea that education is the key to improving boater practices. Marinas and our waterways benefit from Dockwalkers through their efforts to increase boaters' awareness about clean boating. There are over 500 Dockwalkers statewide who have distributed more than 60,000 boater kits since the year 2000.

This summer we will be conducting several trainings throughout the State. To learn more about the Dockwalkers program and upcoming trainings, visit our website at [www.coast4u.org](http://www.coast4u.org) (click on Boating Clean & Green) or contact Vivian Matuk at (415)904-6905 [vmatuk@coastal.ca.gov](mailto:vmatuk@coastal.ca.gov)



## Lauritzens Receive the 2006 Department of Boating and Waterways Distinguished Public Service Award

Chris and Margaret Lauritzen, the third generation owners and Harbor Masters operating Lauritzen's Yacht Harbor in Contra Costa County, received the 2006 Department of Boating and Waterways Distinguished Public Service Award. The Lauritzen's received the award in recognition of their outstanding contributions to Delta environment and recreational boating safety throughout California.

Their grandfather launched the business first as a ferry service across the Carquinez Straight in the Delta just before the 1906 earthquake. Today, the family business is a Delta institution and provides berths, dry storage, and services for about 400 boats. The Lauritzens put safety and environmental protection first in operating their marina. Each year they provide an extensive one-day boating class for new boaters who berth at their yacht harbor. They partner with the Coast Guard Auxiliary in this effort, ensuring that new boat operators have basic training in the boating laws of California.

The Lauritzens have been instrumental in the implementation of the "Keep the Delta Clean Program", a pollution prevention program designed to promote clean and safe boating and marina operations in the Delta. Their marina serves as a catalyst for change in the Delta as they are one of the five pilot marina demonstration sites. The demonstration sites showcase various environmental services as examples of responsible marina operations while actively fostering boater education among their customers. As a part of their ongoing commitment to increasing boater awareness, the Lauritzens also actively distribute Delta boater kits and post information about clean and safe boating throughout their marina.

California's boaters are extremely fortunate to benefit from the efforts of the Lauritzens who work hard to sustain the quality of Delta recreation.

## Head Honcho Mobile Marine Pumpout Service Brought to You by the DELTA DESTINATION SERIES



Article and photo by Matt Peterson

Matt Peterson launched Head Honcho Mobile Marine Pumpout Service in 2006 as a result of his involvement with the California Clean Boating Network. Having been in the boat maintenance business for 13 years - he also own FastBottoms Hull Diving, an underwater hull cleaning company - he was asked to participate in the Delta chapter of the CCBN prior to its inaugural meeting. Listening to harbormasters and boaters tell their stories during the subsequent meetings of the CCBN that first year, it became apparent to Matt that the Delta area lacked sufficient working pumpout stations to adequately fulfill the needs of the many thousands of boaters who use the Delta as their primary cruising

grounds. Thus, "Head Honcho" was formed to provide a convenient boat-to-boat holding tank pumpout service for boaters, eliminating the need for them to travel long distances searching for a pumpout station and also relieving the boat owner of an unpleasant chore.

*Continued Next Page*

# News from the Delta Chapter

The Delta Chapter is implemented with the support of: Contra Costa, Sacramento, San Joaquin, Solano, and Yolo Counties; City of Stockton; California Coastal Commission; and Department of Boating and Waterways

Clean water is important to all of us. Untreated sewage dumped overboard not only introduces disease-carrying microorganisms that can make humans sick by direct contact but can also build up in shellfish that may be eaten by humans. In addition, bacteria and other microorganisms in the water that break down untreated sewage use up oxygen that fish need to breathe. By providing the boater with an inexpensive, convenient pumpout service, Head Honcho helps reduce the possibility that untreated sewage is introduced into Delta waters.

Head Honcho Mobile Marine Pumpout Service empties holding tanks for boaters berthed or at anchor in Alameda, Contra Costa, San Joaquin and Sacramento counties.

For more information visit [www.head-honcho.net](http://www.head-honcho.net) or call (925) 429-4490.

## Eating Delta Fish Safely from the California Department of Health Services

Eating fish is good for your health. However, some fish are contaminated with mercury and other chemicals. Mercury bioaccumulates in fish at levels that may pose health risks to people who eat these fish, especially to babies and children whose brains are still developing. A CALFED-funded Fish Mercury Project has allowed for recent sampling of fish from the Delta. From this data, the Office of Environmental Health Hazard Assessment (OEHHA) is able to issue health advisories, also called "Safe Eating Guidelines." It is especially important for children and women of childbearing age to follow these guidelines to minimize exposure to mercury.

Recent data show that many fish caught in the South Delta (the areas south of the San Joaquin River) have less mercury than fish from other places in California. This finding contradicts earlier messages about Delta fish. According to the new advisory for the South Delta, women and children should continue to avoid eating striped bass and sturgeon because these fish do not always stay in the Delta and may contain more chemicals. Bluegill and other sun-

fish, catfish, clams, crayfish have the lowest levels of mercury, but consult the guidelines for specific recommendations. Multilingual signs posted in the South Delta by the CA Department of Health Services with the help of local agencies and organizations will reflect this new information. The full text of the updated advisory is available at OEHHA's website at: <http://www.oehha.ca.gov/fish.html>.

For more information about the signage project, please contact May Lynn Tan at [mtan@dhs.ca.gov](mailto:mtan@dhs.ca.gov).

Article by Jessica Kaslow and Alyce Ujihara

**AVISO** **WARNING** **CEEV FAAJ**

Some fish in the Delta have chemicals that may harm your health. Women age 18 – 45, pregnant or breastfeeding women, and children 17 years and under should not eat more than 1 meal of striped bass or sturgeon a month. Other adults should not eat more than 2 meals of striped bass or sturgeon a month.

**Health Advisory for Striped Bass and Sturgeon**

**STRIPED BASS** **STURGEON**

**1 MEAL A MONTH** **NO Striped Bass over 27 inches**

**Women age 18 - 45, breastfeeding or pregnant women, children, and teens**

**2 MEALS A MONTH** **NO Striped Bass over 35 inches**

**Other adults**

**GOOD CHOICES**

**BEST CHOICES**

Crappie, Carp, Largemouth and other Black Bass, Steelhead, Salmon, Bluegill, Sunfish, Catfish

**EAT DELTA FISH SAFELY**

# Global Warming and You

*There are many actions we can take to reduce and slow global warming. Use the following tips so you can protect the environment, save money, and save fuel!*

<b>Check Your Propeller</b>	A damaged propeller will increase drag and waste fuel. Keep propeller blades clean and in good condition.
<b>Watch Your Boat Weight</b>	The lighter your boat, the less horsepower required to propel it, and the more fuel you save.
<b>Plan Your Trip</b>	Any reduction in running time is better for the environment and is fuel and money saved.
<b>Check the Tides and the Weather</b>	Boating against the tides takes more effort and fuel. Save fuel by working with the tides to your advantage.
<b>Slow Down</b>	Travelling at moderate and steady speeds is safer and will reduce fuel consumption.
<b>Tune Up Your Engine</b>	Proper ignition timing and clean spark plugs will assure extra mileage and will help to reduce gas emissions.
<b>Whenever You Stop, Turn Off The Engine</b>	A warm engine restarts easily. Idling your engine for longer than a minute wastes fuel and is worse for air quality than starting up the engine again.
<b>Keep Your Hull Clean</b>	A rough hull can increase fuel consumption. Perform regular hull maintenance to prevent hard marine growth and reduce underwater drag.
<b>Check Your Car and Trailer</b>	Keep your trailer and car tires properly inflated to reduce fuel consumption. Don't overload or use too small a trailer.



santa monica bay restoration foundation  
320 w. 4th street, ste 200  
los angeles, ca 90013

A SMBRF, CCC, DBW, and Keep the Delta Clean Program Publication for the California Clean Boating Network  
[www.santamonicabay.org](http://www.santamonicabay.org)  [www.coastal.ca.gov](http://www.coastal.ca.gov)  [www.dbw.ca.gov](http://www.dbw.ca.gov)  [www.keepthedeltaclean.com](http://www.keepthedeltaclean.com)

*Printed on Recycled Paper*

Reference to products, processes, businesses, or services in the Changing Tide does not imply its endorsement or recommendation for use. The Santa Monica Bay Restoration Foundation, California Coastal Commission, CA Bay-Delta Program, their employees and contractors assume no responsibility and disclaim any liability for any injury or damage resulting from the use or effect of any product or information specified in this publication.