



tips for off-season maintenance

In some parts of the U.S., boaters prepare boats for the upcoming winter and freezing conditions. We're lucky it doesn't get that cold in most areas of California. However, many boaters in otherwise mild climates are often surprised to find their boats damaged from the cold. It only takes one night of below freezing temperatures to crack a block or split a water pipe in a boat that's not winterized. Despite our mild winters, California reports the most freeze damage insurance claims in the U.S., as reported by BoatUS. Here are some general tips for protecting your boat during the winter. If you're not comfortable winterizing your boat yourself, hire a professional. Check your owner's manual for recommendations on winterizing your boat and its' systems.

Interior



Clean boats inside and out and cover when stored, even indoors. Allow air circulation under cover to prevent mildew. Consider using shrink wrap to protect your boat.

Make sure boat is ventilated during storage. Open drawers and lockers.

Hang life jackets in a ventilated area.

Turn cushions up on edge or store in climate controlled environment

Turn off, empty, and clean fridge and freezer. Leave doors open.

Use odor and moisture absorbing products or install a dehumidifier.

Clean and check safety items (flares, life jackets, and fire extinguishers).

Remove valuables and electronics.

Fuel

Fill fuel tanks: Full fuel tanks are not subject to condensation. Avoid contamination; add biocide to diesel. Add fuel stabilizer and change fuel filters and water separators.

Bilges



Clean and dry bilges. If boat is stored on a trailer, remove the boat drain plug. Remember to replug!

Fresh Water System

Drain fresh water tank, water system, and hot water heater.

Non-toxic antifreeze works well in potable water systems.

Head

Properly empty out holding tanks and port-a-pottys. Non-toxic antifreeze works well in holding tank systems and heads.



Electrical

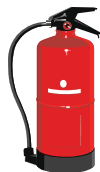


Check batteries and keep charged during off-season. Clean battery terminals and spray with marine battery terminal protector.

Examine the tires, bulbs, and electrical contacts of the boat trailer.



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Shrink Wrapped Boats



Our Playground, Their World...

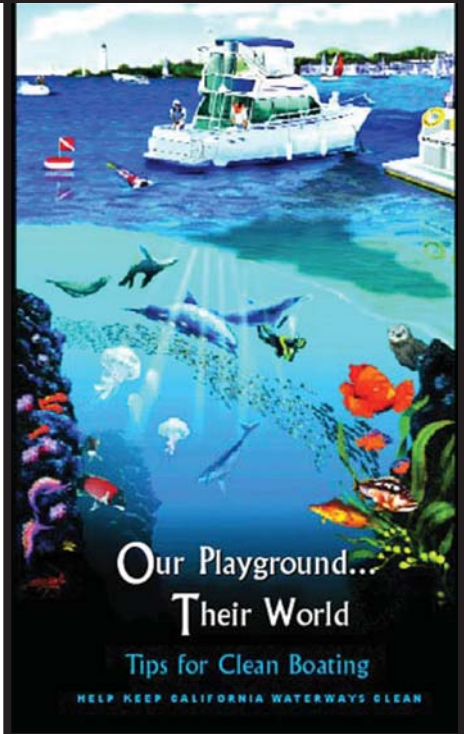
Re-released and Updated on DVD!

With the end of the 2007 boating season, Project-GreenWorks hopes that boaters everywhere will take the time to learn something new. Boaters can make a difference by educating themselves about topics like boat generated pollution or the bilge pad exchange program.

To assist boaters, Project-GreenWorks has re-released the *Our Playground, Their World...* 30 minute boating DVD originally produced by the Santa Monica Bay Restoration Foundation in 2000. The DVD addresses several issues (i.e., oil & fuel, hazardous waste, gray water, sewage, and marine debris) and explains the relationship to boating. Facts regarding the effect on the marine environment and tips to reduce

the amount of pollutants introduced into the ocean are provided. Thanks to a Proposition 13 grant funded by the State Water Resources Control Board, Project-GreenWorks has added a section concerning urban runoff. The free DVD has a \$5 shipping fee and can be ordered by emailing projectgreenworks@gmail.com.

Living in Southern California, we are fortunate to have days even during the off-season that are great for boating. We'd like to encourage everyone to commit to make a difference by continuing to learn how to be an environmentally sound boater.



Wrap it Up!

Marina shrink wrap is used to protect boats from cold weather, sunshine, and other conditions. Unfortunately, shrink wrap is non-biodegradable and can be a serious waste disposal problem for both the marine industry and landfills. On the brighter side, the plastic is made from 100% virgin resins so sits high on the plastics food chain. This means it can be recycled into many new products such as plastic bags, guardrail blocks, wheel chocks, lawn edging, plastic banners, and plastic lumber.

Some marinas provide shrink wrap recycling programs for boaters. Many recycling companies have devised simple methods for boaters to recycle their shrink wrap scraps and entire covers. These companies provide bags with cover removal directions, closure devices for the bag, and a prepaid UPS return label for boaters to ship used shrink wrap for recycling.

Check to see if your marina has a shrink wrap recycling program. If not, start requesting this service!



photo by Alan Sharp, Big Bear Marina

A Day on the Dock

2008 Southern California Dockwalker Events

Education is the key to clean water! Join our Dockwalker team and become a clean boating educator.

In 2008, the Southern California chapter of the California Clean Boating Network will be supporting two Dockwalker Trainings: Newport Beach and Marina del Rey.

Project Greenworks, Association for Santa Monica Bay Yacht Clubs, Womens Sailing Association, Fairwind Yacht Club, and the Santa Monica Windjammers Yacht Club will be working together this year to support the California Coastal Commission and Cal Boating efforts to make the Dockwalkers program a success.

The Dockwalker program trains volunteers about environmentally sound boating practices and trains them how to teach others about clean boating. While visiting marinas, launch ramps, and boating events, certified Dockwalkers distribute tote bags filled with information about safe and clean boating. This year, the 100% organic



cotton tote bags will include an oil absorbent pillow, a ski flag, and a floating key chain.

The success of the Dockwalker program has resulted in training 500 Dockwalkers statewide, distributing over 60,000 boater kits since 2000.

Truly, the success of this outreach and education campaign lies in the volunteers and their hard work in recruiting other boaters and teaching others how to be environmentally conscientious boaters.

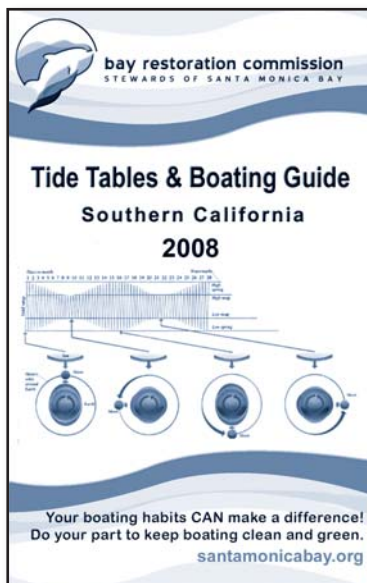
DOCKWALKER

Save the Date!

March 1, 2008: Newport Beach
(for more information:
projectgreenworks@gmail.com)

March 29, 2008: Marina del Rey
(for more information:
glee@waterboards.ca.gov)

Seminars last 1.5 hours with an optional dockwalking activity after the training.



The Tides are in!

Do you need a pocket-size 2008 Southern California tidebook? If so, you're in luck! The Santa Monica Bay Restoration Foundation, with grant funding from the California Integrated Waste Management Board and Cal Boating, recently published the "Tide Tables & Boating Guide, Southern California 2008." The tidebooks contain information on tides and currents for Southern California as well as a chart of important radio

channels, distance tables for various locations on the Southern California coast, and times for 2008 sunrise and sunsets. You will also have access to easy tips for Boating Clean and Green and maps of local environmental services such as sewage and bilge pumpout stations, used oil collection centers, bilge pad exchange sites, and fuel docks. The maps cover all major harbors from Santa Barbara to Punto Morro, Baja.

If you would like your free copy, please contact Grace Lee at glee@waterboards.ca.gov.
Marine businesses are encouraged to order multiple copies so you can distribute tidebooks to your patrons.

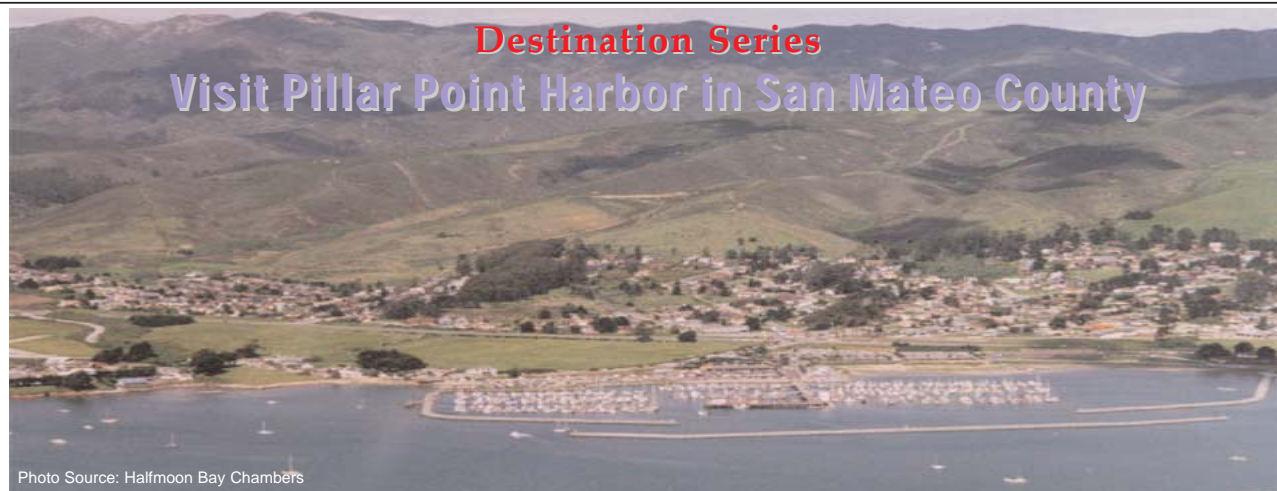


Photo Source: Halfmoon Bay Chambers

Destination Series Visit Pillar Point Harbor in San Mateo County

Located 25 miles south of San Francisco off of Pacific Coast Highway, this quaint little fishing village and harbor is filled with history. Sheltered by Pillar Point and the northern end of the "bight" that is Half Moon Bay, it is the only protected harbor between San Francisco and Santa Cruz.

Originally the home of Coastal Ohlone Indians, the harbor has provided protection from the elements and played host to an 1860's whaling station used by sailors from the Azores, rum runners during the prohibition era, and over 100 years of commercial fishing. The fishing industry is still going strong, with deliveries averaging around 4,000,000 lbs of seafood product per year. Breakwaters were added in 1960 and 1985 enhancing safety and allowing for the construction of the marina.

Today Pillar Point Harbor is a modern facility, yet the ambience is one of a relaxed, traditional marine center. The area is scenic, quiet and somewhat remote and rural - far removed from the bustle of the nearby city (San Francisco).

Boating in Pillar Point Harbor

The 369 berth marina is operated 24/7 by the San Mateo County Harbor District. There is a 6 lane launch ramp, 40 outer harbor moorings, accommodations for transient vessels, fuel, ice, groceries, pub, restaurants, restrooms, showers, kayak lessons and rentals, sport fishing charters and fishing supplies. The Half Moon Bay Yacht club (www.hmbyc.org) hosts sailing regattas and social events, whale watching and eco-tour boats are available. The Harbor

Patrol can be reached on VHF channel 16/74, by phone (650) 726-4382, or at www.smharbor.com

Services for Environmentally Sound Boating in Pillar Point Harbor

Environmental services for boaters are available at the fuel dock and include an oily bilge water pump out, a sewage pump out, and receptacles for oil absorbents, oil filters, used oil containers, and used oil. There is a recycling center located at the foot of Johnson Pier, and trash receptacles are at the head of each dock. A special dumpster for fish cleaning waste is located near the fish cleaning station at the launch ramp. Public transportation to the Harbor is available.



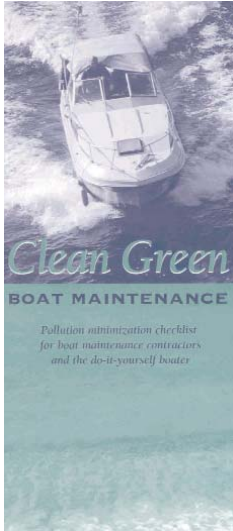
Enjoying Pillar Point Harbor
Photo Source: Pillar Point Harbor

Nearby

Grey whales can be seen from the bluffs above the harbor as they migrate along the coast. The Pillar Point Marsh is a small unique fresh and saltwater marsh. Nearly 20% of all North American bird species have been sighted here. By following the trail around to the point, you come upon the breakwater and tide pools, where California sea lions frolic in the kelp beds or bask on the offshore rocks while surfers catch the famous Mavericks waves just west of Pillar Point. Many restaurants, shops and hotels are within walking distance. The coastside trail leads south along the water to the historic town of Half Moon Bay.



FREE Clean & Green Boat Maintenance Checklist



The California Coastal Commission and the California Department of Boating and Waterways' Boating Clean and Green is distributing FREE Clean Green Boat Maintenance Checklist.

This FREE 17-page booklet will assist those who conduct boat cleaning, repair, and maintenance activities outside of a boat repair facility to identify ways to prevent pollutants

from entering California waterways.

The Campaign recommends displaying this publication at:

- ✓ Boatyard offices (where do-it-yourselfers are permitted to work)
- ✓ Marina and yacht club offices
- ✓ Marina docks
- ✓ Marine supply shops

For more information about the Clean and Green Boat Maintenance Checklist and to place your order contact Vivian Matuk at (415)904-6905 or vmatuk@coastal.ca.gov

Maximum order is 100 Checklists per order

Partnerships Chart New Horizons for the **DOCKWALKER** Program in Santa Cruz Harbor

Partnership forged a rejuvenation of the DockWalker program in Santa Cruz Harbor this Spring. **Save Our Shores, the US Coast Guard Auxiliary, the California Coastal Commission and the California Department of Boating and Waterways' Boating Clean and Green Campaign** made a commitment to boater education during the summer boating season. This partnership hosted a handful of harbor events aimed at teaching boaters to reduce chemical contamination of our ocean sanctuary.



Photo By: Kate Purcell. Dockwalkers at Santa Cruz Harbor during National Safe Boating Week

National Safe Boating Week on May 19 was a perfect opportunity to join forces and encourage boaters to protect themselves and the ocean. The Coast Guard Auxiliary and Save Our Shores vol-

unteers spent the day providing free advice and materials to people launching boats from the Santa

Cruz Harbor. Boaters received clean boating kits that emphasized the use of oil absorbents to prevent oil and fuel from entering into the water as well as other clean and safe boating messages.

Boaters were more receptive than ever to the messages, demonstrating that years of boater outreach have begun to change the tides. Boaters are now more enthusiastic about protecting the environment and they are familiar with the tools to do so.



Photo By: Save Our Shores

contact Save Our Shores at (831) 462-5660.

These changing habits will go a long way to ensure the quality, beauty and safety of our waterways. If you live near the Monterey Bay and would like to participate, please con-





Keep the Delta Clean Phase II The Delta Boating Program



Readers of the Spring 2007 issue of *The Changing Tide* may remember the article announcing the Phase II expansion of the Keep the Delta Clean (KDC) program. We are happy to report that the program is making great progress: 25 marinas are now formally participating--an increase of over 400% from Phase I!

The program team is partnering with our invaluable volunteer Dockwalkers, supportive marina and yacht club operators, and caring California Clean Boating Network members to get the word out about how important it is to keep the Delta waters clean and safe, and how easy it is to locate the current and soon-to-be-installed environmental services (such as recycling of oil, filters, and absorbents).

How will the Phase II KDC program spread the word, and what's the status on those great boater kits? The KDC team is busy printing 2,800 clean and safe boating posters. We are also assembling 15,000 free boater kits. These kits will contain a large organic canvas tote bag, waterproof *Sacramento-San Joaquin Delta Map for Recreational Boating*, bright safety flag, oil absorbent bilge pillow, and important educational Department of Boating and Waterways materials.

A comprehensive Delta boater website is also in the works. The site is slated to host a searchable database of boater services locations, as well as up to date weather, water and tidal information. Look for the www.KeepTheDeltaClean.com Web site, boater kits and posters in early December.

For more information, contact Dan Jordan at (925) 313-2013 or djord@pw.cccounty.us. To become a Dockwalker contact Vivian Matuk at (415) 904-6905 or vmatuk@coastal.ca.gov. Written by Janet Smartt.

Information Center Will Help Californians Discover the Delta

By Tom Martens, Interim Executive Director of the Discover the Delta Foundation

"The Delta is a place of great beauty, and for generations it has been a great natural resource and destination ... It has a regional economy and a regional culture as old as any in California, consisting of communities, farming and recreational activities."

That's how Gov. Arnold Schwarzenegger's Blue Ribbon Task Force described the Sacramento-San Joaquin Delta in its draft vision for protecting and restoring the 1,000 miles of its waterways.

Despite the glowing description and importance, the Delta is one of the state's best kept secrets. Few outside the boating and fishing communities know about this unique place, through which much of the water for the state flows. Concerned about this lack of awareness at a critical period for the estuary, Delta residents created the Discover the Delta Foundation in July 2006, with a mission of increasing the awareness and protecting the area.

It's a critical period, because state agencies and a stakeholder's group will be developing strategies in 2008 for achieving the vision of the governor's task force. These strategies are expected to cost billions and will need widespread awareness and support from all California residents.

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

The foundation started increasing the awareness of the Delta's boundaries by placing signs welcoming visitors along county roads and state highways.



The centerpiece of the foundation's long-term work is to build the Discover the Delta Information Center at highways 12 and 160 just east of Rio Vista. The center will include a staffed information kiosk and displays on agriculture, levees, energy, water resources, recreation, geology, history, culture and the environment. It will also include a meeting room, an area for arranging tours and computer center.

Contact the foundation via www.discoverthedelta.org, (916) 777-4442 or info@discoverthedelta.org.

Visit Bethel Harbor in the Heart of the California Delta

Located in the northern side of Bethel Island in the beautiful Sacramento-San Joaquin Delta, Bethel Harbor history started in the 1940's. Family owned and family



Bethel Harbor in the 1940's.

oriented since the beginning, Bethel Harbor began as a destination for the public to rent wooden fishing skiffs.

Don't be mistaken by Bethel Harbor's quiet and relaxing atmosphere; today the facility is bustling with boaters. The marina has grown into a large, full service location with 100 covered berths, a 400-boat dry-storage system with an elevator for quick, safe, boat launching, camp-

ing, a complete parts and service department, and a sewage pump-out facility is coming soon.

Along with the surrounding suburban area, Bethel Island is growing in popularity, bringing an increasing number of boaters to the area. In addition to fishing, today's pastimes include cruising, water skiing and wakeboarding. Bethel Harbor is ideally located near superb water skiing and wakeboarding sloughs, with local water skiing clubs and several private yacht clubs nearby.

With such a beautiful, convenient, and popular location comes a responsibility to help keep the natural surroundings and water clean and enjoyable for current and future generations of anglers, skiers, boarders and cruisers. Fortunately, the Delta boating community benefits from many environmental and recycling services available to boaters and marinas.

Bethel Harbor is one of six pilot marinas to participate in the first phase of the "Keep the Delta Clean Program". In partnership with the program, they encourage clean and green boating practices by educating boaters and providing free environmental facilities. Used battery, oil and filter collection is conveniently provided on site. The marina also features easy access to shore-side recycling bins for aluminum, glass, plastic and paper. Every Bethel Harbor tenant welcome packet includes educational environmental and safety literature, and boaters are given spill prevention information at the fuel dock. Clean restrooms and free showers are available to the boating public as well.

Bethel Harbor strives to provide a full range of marine services to the boating community while protecting and preserving the beautiful and important ecosystem of the Sacramento-San Joaquin Delta. Bethel Harbor encourages other local marinas to join in the Keep the Delta Clean Program. For more information about Bethel Harbor visit www.BethelHarbor.com.



tips for off-season maintenance

(continued from front cover)



Inboard Engines

Change oil and oil filters. If boat is out of the water, flush engine(s) with fresh water and drain completely from drain plug. Drain manifolds using drain plugs or remove hoses. Check coolant in closed cooling systems



Check spark plugs.

Wipe engine down with fogging oil.

Outboard Engines

Flush engine with fresh water.

Change oil in the lower unit.

Disconnect fuel hose and run engine until it stops.

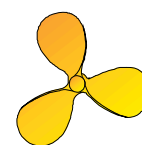
Store engine upright to reduce improper water draining.

Stern Drives

Inspect stern drive and remove growth from lower unit. Discard removed growth in a trash can.

Drain and refill lower unit, check for leaking seals, cracks, pinholes, and signs of water.

Grease all fittings and check fluid levels in hydraulic steering and lift pumps.



Contributing writers: John Cruger-Hansen (Antioch Marina harbormaster)




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A SMBRF, CCC, DBW, and Keep the Delta Clean Program Publication for the California Clean Boating Network

www.santamonicabay.org ⚓ www.coastal.ca.gov ⚓ www.dbw.ca.gov ⚓ www.keepthedeltaclean.org

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