

MAP INTRODUCTION

The purpose of this map is to help boaters and the general public conveniently find environmental services within the central and southern areas of the Sacramento and San Joaquin Delta (Delta). These services are an important means of preventing pollution at the source to preserve and protect the Delta's water quality, so that everyone can continue to enjoy it for many generations. Comprehensive map including all the marinas in the Delta. Some marinas are included due to lack of information, a request for anonymity, having a boat capacity of less than ten slips, or not being open to the general public.

The Delta, A Precious Resource

The Delta ecological system is the largest estuary on the Pacific Coast of the United States and is a critical center for many Delta's residents, both locally and for people throughout the state. The Delta is the physical hub of California's two largest water distribution systems, supplying drinking water to two-thirds of the state's population, irrigation water for over 7 million acres of farmland and supporting many recreational activities. The most popular recreational activities in the Delta are boating, fishing, leisure cruising, water boarding, skiing, swimming and bird watching. The Delta is also home to hundreds of different wildlife species and is a part of the Pacific Flyway, providing critical habitat for thousands of migratory birds.

The population of the six counties adjoining the Delta (Alameda, Contra Costa, Sacramento, San Joaquin, Solano and Yolo) is expected to continue to increase over the coming years, with growing suburban development. Thus, the number of boaters recreating in the Delta is also expected to increase well beyond the Delta Counties' current level of 170,400 registered boaters.

To preserve the Delta's precious resources while accommodating its growing popularity with recreators, local marina operators and caring boaters are working with the Contra Costa County Public Works Department, Sacramento County Environmental Management Department, San Joaquin County Department of Public Works, Solano and Yolo Counties, City of Davis, California Coastal Commission, and Department of Boating and Waterways to implement a marina and recreational boating program called "Keep the Delta Clean" (funded by the Delta Water Resources Control Board). The program uses education and pollution prevention services to preserve and protect water quality, opportunities for recreational activities and environmental health in the Delta. Please read below to learn more about how you can help keep the Delta safe and clean for all.

OTHER MAP RESOURCES

Below are other navigation and map resources you can use to learn more about Delta underwater topography, fishing locations, recreational facilities, Delta history, ferry details and annual events.

NOAA Navigational Charts

18652 SC, San Francisco Bay to Antioch
18659, Mallard Island to Antioch
18669, San Joaquin River (lower Sacramento River)
18662 SC, Sacramento (Antioch Island to Sacramento)
18664, Sacramento River (Sacramento to Colusa)

For more information about NOAA Navigational Services, please call (301)713-2732 x160 or visit <http://www.charts.noaa.gov/OnLineViewer/PacificCoastViewerTable.shtml>

MAP RESOURCE LIST

Consult these organizations to learn more about clean and safe boating.



California State Parks Division of Boating and Waterways
(888) 326-2822
www.parks.ca.gov



California Coastal Commission
(800) COAST4U (262-7848)
www.coast4u.org



California Professional Divers Association
(818) 600-0444
www.prodivers.org



University of California Cooperative Extension
(858) 822-7802
ucanr.edu/sites/coast



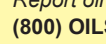
Earth 911
(800) CLEANUP (253-2687)
www.earth911.org



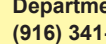
San Francisco Estuary Project
(510) 622-2465
www.slep.org



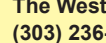
BoatU.S. Foundation
The Boater's Toolbox
(800) BOAT-USA (262-8872)
www.boaters.com



Department of Resources Recycling and Recovery (CalRecycle)
(916) 341-4000
www.calrecycle.ca.gov/



The Western Regional Panel on Aquatic Nuisance Species
(303) 236-4515
www.fws.gov/ianwst/



Report sightings of invasive species toll-free to:
(877) STOP ANS (786-7267)



California Department of Fish and Wildlife
(916) 445-6411
www.dfg.ca.gov

Preventive Engine Maintenance

- Practice preventive engine maintenance. Keep the engine well tuned and operating efficiently.
- Choose Coast Guard-approved alcohol-resistant fuel lines.
- Avoid using solvents or toxic chemicals to clean engine parts.
- Use mechanical means (such as hand-scraping caked oil) or less toxic solvents (water-based). Do not let solvents run into the bilge.
- Transfer and remove fluids with care using funnels, pumps and absorbents to eliminate drips and spills. Do not let fluids and solvents run into the bilge.
- Use oil/fuel-only absorbents in the bilge to capture unexpected leaks.

Report Oil and Chemical Spills

Report spills of oil or chemicals to the National Response Center:
(800) 424-8802, California Office of Emergency Services - (800) OILS911 (645-7911) and to the marina office.

Spill-Proof Your Oil Changes and Recycle Used Oil

- If you change your own oil, use a closed system – a portable vacuum oil change pump that drains into a container that is closed to prevent spills during transfer of oil (available at most marine supply stores).
- Do not mix used oil with other waste. Keep it separated for recycling.
- Recycle used motor oil and oil filters at a certified used oil collection center or marina providing this service. See [this](#) on the map for locations near you.

Use Safe, Spill-Proof Fueling Practices

- Prevent fires while fueling by shutting motors, lights and electrical equipment. Extinguish cigarettes and any other sources of ignition. Keep fuel-soaked absorbents away from sources of ignition. Close doors, hatches, ports and entryways and turn off blowers.
- Maintain nozzle contact with the fill pipe to prevent static sparks and spills.
- Fill tanks slowly to prevent overflows from the air vent. Avoid "topping off" the tank. Automatic shut-off nozzles do not shut in time to prevent spills.
- Know the capacity of your tank and leave it at least 10 percent empty, because fuel expands.
- Use an absorbent fuel bib or hold an absorbent sheet under the nozzle to catch drips. Properly dispose of fuel-soaked bibs and absorbents as hazardous waste.

Department of Resources Recycling and Recovery (CalRecycle)
(916) 341-4000
www.calrecycle.ca.gov/

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Report sightings of invasive species toll-free to:
(877) STOP ANS (786-7267)

California Department of Fish and Wildlife
(916) 445-6411
www.dfg.ca.gov

Report oil, fuel and chemical spills to all numbers below:
(800) 424-8802 – National Response Center
(800) OILS911 (645-7911) – CalEMA

BOAT SEWAGE

Over one hundred different intestinal pathogens such as viruses, parasites and bacteria can be found in sewage that may harm humans, wildlife and drinking water quality.

Look for [this](#) on the map for marinas with sewage pumpout facilities or visit www.dbw.ca.gov/Pumpouts

It is illegal to discharge any sewage, treated or untreated, into the Sacramento-San Joaquin Delta (East of Chippis Island) as stated in the Clean Water Act. The entire Delta is considered a rivers system that does not support interstate traffic. (CFR § 33 and 40)

- Always use shore-side restrooms when docked and before casting off.
- Visit a marina with a sewage pumpout and/or port-a-potty dump station to properly dispose of sewage. For assistance in properly operating a sewage pumpout, contact the marina operator or staff. See [this](#) on the map for locations near you.

All boats with installed toilets must have a Coast Guard-approved Marine Sanitation Device (MSD) if operating in U.S. navigational waters.

Avoid holding tank disinfectants and deodorizers that contain chlorine, quaternary ammonia, formaldehyde or other chemicals that can be harmful to aquatic organisms.

If you have a Y-valve with a through-hull fitting that allows direct overboard discharge, it must be secured in the closed position (using a padlock or non-releasable wire tie).

American Red Cross Sierra-Delta Chapter
(916) 993-7070 or visit www.redcross.org/ca/sacramento

Equip your boat with a first aid kit that contains, at a **minimum**, the following first aid supplies:

- Adhesive bandages in various sizes
- Rolled bandages (1 and 3 inches)
- Fingertip bandages
- Triangular bandages
- Sterile pads
- Antiseptic
- Medical adhesive tape
- Scissors and tweezers
- Gloves
- Germsicidal hand wipes
- Butterfly closures
- Eye wash cup
- Sterile eye pad
- Cold compress
- First aid guide
- Calamine lotion
- Aspirin or non-aspirin pain relievers
- Motion sickness medication or patches
- Antibiotic ointment

TRASH AND MARINE DEBRIS

Trash, fishing gear and debris in the water, and on levees and beaches has detrimental effects on wildlife, boater safety, and on the quality of recreation in the Delta.

- Bring it all back. Designate a permanent on-board trash bin. Properly stash all containers and trash on board to prevent items from being blown overboard.
- Put empty cans and bottles back in your cooler to recycle on-shore.
- Remove product packaging at home or pack food from home in a reusable container to eliminate packaging waste on board. REMEMBER! Reduce, Reuse and Recycle.
- Take used monofilament fishing line back to recycling bins at your marina or tackle shop, or send it directly to: Pure Fishing, 1900 19th Street, Spitt Lake, IA 51950-1069, (801) 237-5250.

Participate in a local marina or beach cleanup – call (800) COAST4U (262-7848), or visit the California Coastal Commission Website at: www.coast4u.org.

For detailed advice on more Delta fish for consumers of all ages, go to www.oehha.ca.gov/fishinfo_calindex.html or call (916) 327-3219 (Sacramento) or (510) 622-3170 (Oakland). Safer fish from the Delta include salmon, trout, and American shad. These fish are both low in mercury and high in healthy omega-3 fatty acids.

American Red Cross June 2010. www.redcross.org

California Coastal Commission 2004. *The California Clean Marina Toolkit*.

California Department of Fish and Game 2003. *Atlas of the Biodiversity of California*.

Office of Environmental Health Hazard Assessment 2010. *Delta Fish Consumption Advisory*. www.oehha.ca.gov/fish html

California Department of Motor Vehicles 2010. *Total Vessel Registration by County* *As of December 31, 2009*.

Department of Boating and Waterways 2010. *ABCs of the California Boating Law*.

Lauritzen Yacht Harbor, September 2010. www.lauritzen.com

National Research Council (NRC), 1993. *Managing Wastewater in Coastal Urban Areas*. National Academy Press, Washington, DC.

Santa Monica Bay Restoration Foundation, 2002. *A Quick and Easy Guide to Using Oil Absorbents*.

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FIRST AID

It is recommended that every boater take an American Red Cross or other approved first aid course. It is important to know what to do in the event of an emergency or injury for your own safety and the safety of your passengers and other boaters who are enjoying the Delta. To learn about the first aid courses offered by the American Red Cross, please contact:

American Red Cross Sierra-Delta Chapter
(916) 993-7070 or visit www.redcross.org/ca/sacramento

Equip your boat with a first aid kit that contains, at a **minimum**, the following first aid supplies:

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- Triangular bandages
- Sterile pads
- Antiseptic
- Medical adhesive tape
- Scissors and tweezers
- Gloves
- Germsicidal hand wipes
- Butterfly closures
- Eye wash cup
- Sterile eye pad
- Cold compress
- First aid guide
- Calamine lotion
- Aspirin or non-aspirin pain relievers
- Motion sickness medication or patches
- Antibiotic ointment

SAFER FISH CONSUMPTION

Eating fish is good for your health, but some fish caught in the Delta, including striped bass, contain high levels of mercury. Mercury can negatively affect how the brain develops in unborn babies and children. Therefore, women 18-45, especially those who are pregnant, and children 1-17 should limit their consumption of high mercury fish.

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LIFE JACKETS

Children under the age of 13 are now required to wear a life jacket.

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