

Marine Protected Areas of  
Washington, Oregon, and California

compiled by

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## **Introduction**

This document begins to identify for the Pacific Fishery Management Council (PFMC) some of the protected areas or sites of special designation that could affect the marine environment off the states of California, Oregon, and Washington. It reflects only the information which could be collected in the time available under this contract. The listed sites include those specifically designated for some level of protection, as well as those which might be considered “de facto” protected areas. “De facto” protected areas are those where fishing access could be affected by regulations implemented for other purposes, or by the presence of man-made obstacles or hazards to navigation. While all of these sites are coastal, they may include a variety of subtidal and/or intertidal zones, and limitations on fishing (if any) vary at each site.

## **Designated Sites**

### National Marine Sanctuaries

The Marine Protection, Research and Sanctuaries Act of 1972 authorizes the Secretary of Commerce to designate discrete areas as national marine sanctuaries to promote comprehensive management of their special conservation, recreation, ecological, historical, research, educational, or aesthetic resources. National marine sanctuaries may be designated in coastal and ocean waters, in submerged lands and in the Great Lakes, and their connecting waters. To date, 12 national marine sanctuaries have been designated, including nearshore coral reefs and open ocean. They range in size from less than one to over 5,300 square miles. The sanctuaries are administered by the National Oceanic and Atmospheric Administration (NOAA), and the relevant regulations are published in 15 CFR 922. Sites located in California, Oregon, or Washington are listed in Table 1, and the general locations are depicted in Figure 1.

### National Wildlife Refuges and Wilderness Areas

The mission of the National Wildlife Refuge System is to preserve a national network of lands and waters for the conservation and management of fish, wildlife, and plant resources of the United States for the benefit of present and future generations. The system is managed by the US Fish and Wildlife Service (USFWS) pursuant to the National Wildlife Refuge System Administration Act of 1966 and other authorities. The first refuge was established in 1903, and the system now includes more than 500 refuges totaling more than 92 million acres. Public use of a refuge, including wildlife-dependent recreation, is allowed only where the use is compatible with the mission of the system and purpose of the individual refuge. Sites adjoining the coastal waters of California, Oregon, or Washington are listed in Table 2, and the general locations are depicted in Figure 2.

### National Parks and Monuments

The National Park Service (NPS), Department of the Interior, was created in 1916 to protect the 40 national parks and monuments then in existence and those yet to be established. Its purpose is to conserve the scenery and the natural and historic objects and the wildlife in these parks, and to provide for their enjoyment in a manner that will leave them unimpaired for the enjoyment of future generations. Authority for 63 national monuments and military sites was transferred to the

NPS in 1933. The National Park System of the United States now comprises 376 areas covering more than 83 million acres. Additions to the system are made through acts of Congress. Pacific coastal sites are presented in Table 3 and Figure 3.

#### State and Local Government Designations

State and local governments may assign special designations or regulations to areas to further a variety of management, planning, or educational purposes. These have been documented by McArdle (1997) for California, and by Murray (1998) for the Puget Sound region of Washington. Protected areas in Oregon are documented in the sport fishing regulations for the Marine Zone published by the Oregon Department of Fish and Wildlife. Sites in California are listed in Table 4, those in Oregon are listed in Table 5, and those in Washington are listed in Table 6. These sites are numerous and many are small, so no general location maps are provided here. Site maps are generally included in the above reference documents, and each of the states is (or has been) involved in mapping programs to identify the boundaries of these sites. Preliminary ArcView shapefiles that have been collected are being provided as part of this completion report.

#### National Estuarine Research Reserve System

The National Estuarine Research Reserve System was established under Section 315 of the Coastal Zone Management Act of 1972. Under the system, healthy estuaries that typify different regions of the United States are designated and managed as sites for long term research, and used as a base for estuarine education and interpretation programs. The system also provides a framework through which research results and techniques for estuarine education and interpretation can be shared. Pacific coast sites are listed in Table 7, and their locations are depicted in Figure 4.

#### National Estuary Program

The National Estuary Program (NEP) was established in 1987 by amendments to the Clean Water Act to identify, restore, and protect nationally significant estuaries of the United States. The Environmental Protection Agency (EPA) administers the NEP, but program decisions and activities are carried out by communities of local government officials, private citizens, and representatives from other federal agencies, academic institutions, industry, and estuary user-groups. The NEP is designed to encourage local communities to take responsibility for managing their own estuaries. Each NEP is made up of representatives from federal, state, and local government agencies responsible for managing the estuary's resources, as well as members of the local community. The objective of each NEP is to create and implement a Comprehensive Conservation and Management Plan that addresses the whole range of environmental problems facing the estuary, as well as the economic and social values of the estuary. Sites located in California, Oregon, or Washington are listed in Table 8, and the general locations are depicted in Figure 5.

#### Biosphere Reserves

Biosphere Reserves are areas of terrestrial and coastal ecosystems which are internationally recognized within the framework of the United Nations Educational, Scientific and Cultural Organization (UNESCO) Man and the Biosphere (MAB) Programme. They are nominated by national governments and must meet a minimal set of criteria and adhere to a minimal set of

conditions before being admitted into the World Network. Each Biosphere Reserve is intended to fulfill three basic functions: (1) a conservation function, to contribute to the conservation of landscapes, ecosystems, species, and genetic variation; (2) a development function, to foster economic and human development which is socio-culturally and ecologically sustainable; and (3) a logistic function, to provide support for research, monitoring, education and information exchange related to local, national, and global issues of conservation and development. Individual Biosphere Reserves remain under the sovereign jurisdiction of the countries in which they are situated. While some countries establish these reserves through specific legislation, in many cases they take advantage of areas already protected under national law. A number of Biosphere Reserves simultaneously encompass areas protected under other systems (like national parks or nature reserves). The core areas of Biosphere Reserves are mostly public land, but they may also be privately owned or belong to non-governmental organizations. Sites affecting the coastal waters of California, Oregon, or Washington are listed in Table 9, and the general locations are depicted in Figure 6.

### **“De Facto” Protected Areas**

#### Undersea Cables

Pursuant to the International Convention of 1884 For the Protection of Submarine Cables and the United States Submarine Cable Act (47 USC 21-23), it is a criminal offense to willfully and wrongfully break or injure a submarine cable in such a manner as might interrupt service. It is also a misdemeanor to break or injure a cable through culpable negligence. Penalties upon conviction include fine and/or imprisonment. In addition, civil action may be taken by the cable system owners to recover damages. While there are no government regulations that prohibit fishing in the vicinity of marine cables, AT&T advises fishing gear be kept a distance of one nautical mile (1NM) from both sides of the charted location of all submarine cables. While most of these cables extend for miles offshore, only the nearshore segments are listed in Table 10; coordinates for these segments are listed in Table 11. Figure 7 depicts the general locations of these segments.

#### Offshore Drilling Platforms

The Minerals Management Service (MMS), a bureau of the U.S. Department of the Interior, manages the mineral resources of the Outer Continental Shelf. All of the 24 oil and gas production facilities in the Pacific OCS region are located off the coast of California. The State of California, Department of Conservation, Oil and Gas Division oversees the construction, operation and closure of additional wells in state waters. There are no regulations that specifically prohibit fishing in the vicinity of these structures, but some are protected by regulations that restrict access to the general vicinity by large vessels or by vessels in tow (33 CFR 147). While the superstructures have been removed at some of these sites in recent years, underwater debris that remains may be a hazard to some fishing gears. These sites are listed in Table 12, and their locations are depicted in Figure 8.

### Weather and Scientific Buoys

A variety of buoys are permanently moored in coastal waters to monitor weather conditions and for other scientific purposes. While there are no regulations that specifically prohibit fishing in the vicinity of these moorages, NOAA advises vessels to give weather buoys a wide berth to avoid entangling the buoy's mooring or other equipment that may be suspended from it. The agency recommends that vessels trailing gear allow 500 yards clearance, and that all others allow at least 20 yards. The Ocean Data Acquisition System (ODAS) coordinates listed in Table 13 reflect current position of active buoys according to the NOAA National Oceanic Data Center. Buoy sites are depicted in Figure 9.

### Regulated Navigation Areas

US Coast Guard regulations restrict navigation in the vicinity of military reservations, or in areas with high levels of vessel traffic. Relevant regulations are published in 33 CFR 165. The areas are listed in Table 14, and the coordinates are listed in Table 15. Since these areas are generally small and are widely distributed, no general location maps are provided here. ArcView shapefiles for all but one of these areas (listed in 33 CFR 165.1102, a security zone in inner San Diego Bay) are provided as part of this completion report.

### Danger Zones and Restricted Areas

Waters in the vicinity of military installations may be closed under the Department of the Army, Corps of Engineers on either a temporary or permanent basis. The reasons for these closures include station security, or as a safety precaution when military operations are underway. Relevant regulations are published in 33 CFR 334. The areas are listed in Table 16, and the coordinates are listed in Table 17. Since these areas are generally small and are widely distributed, no general location maps are provided here. ArcView shapefiles for most of these areas are provided as part of this completion report. Fifteen sites in inner harbors of San Diego Bay, Anaheim Bay, San Francisco Bay, and San Pablo Bay were not mapped due to inadequate location referencing information available at this time.

## **Suggestions for Future Work**

The PFMC, or a designated committee, should review the listed categories of marine protected areas and determine which are most appropriate for Council purposes. The original reasons why each of these sites received their special designations vary, and the utility of these sites to the PFMC as marine protected areas must be evaluated on an individual basis. Future efforts may then focus on obtaining additional information for relevant sites. Once focus areas have been identified, additional information can be collected and more detailed location mapping considered.

### **Literature Cited**

McArdle, D. 1997. California Marine Protected Areas. University of California: California Sea Grant College System. 268 pp.

Murray, M.R. 1998. The status of marine protected areas in Puget Sound. Puget Sound/Georgia Basin Environmental Report Series No. 8. 397 pp.

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Table 1. National marine sanctuaries of California, Oregon, and Washington.

<b>Site Name</b>	<b>Established</b>	<b>State</b>	<b>Managing Agency</b>	<b>Regulations</b>
Cordell Bank NMS	1989	CA	NOAA; CDFG	Recreational and commercial fishing are allowed, but benthic invertebrates or algae located on Cordell Bank or within the 50 fathom isobath may not be taken.
Gulf of the Farallones NMS	1981	CA	NOAA; CDFG	Recreational and commercial fishing are allowed
Monterey Bay NMS	1992	CA	NOAA; CDFG	Recreational and commercial fishing are allowed
Channel Islands NMS	1980	CA	NOAA; CDFG	Recreational and commercial fishing are allowed
Olympic Coast NMS	1994	WA	NOAA	Recreational and commercial fishing are allowed
NOAA = National Oceanic & Atmospheric Administration CDFG = California Department of Fish and Game				

Table 2. National Wildlife Refuges and Wilderness Areas of coastal California, Oregon, and Washington.

Site Name	State	Managing Agency	Zone	Regulations
Castle Rock NWR	CA	USFWS	I	No public access
Farallon NWR	CA	USFWS	I	No public access
Humboldt Bay NWR	CA	USFWS	S, I	
Marin Islands NWR	CA	USFWS		
Salinas River NWR	CA	USFWS	S, I	Saltwater fishing allowed
San Francisco Bay NWR	CA	USFWS	S, I	Saltwater fishing allowed
San Pablo Bay NWR	CA	USFWS	S, I	Saltwater fishing allowed
Seal Beach NWR	CA	USFWS	I	Public use is severely restricted
Sweetwater Marsh NWR	CA	USFWS	I	
Tijuana Slough NWR	CA	USFWS	S, I	
Bandon Marsh NWR	OR	USFWS	I	
Cape Meares NWR	OR	USFWS	I	
Nestucca Bay NWR	OR	USFWS		
Oregon Islands NWR	OR	USFWS	I	No public access
Siletz Bay NWR	OR	USFWS		
Three Arch Rocks NWR	OR	USFWS	I	No public access
Lewis & Clark NWR	OR/WA	USFWS	S, I	Saltwater fishing allowed
Copolis NWR	WA	USFWS	I	No public access
Flattery Rocks NWR				
Quillayute Needles NWR				
Washington Islands Wilderness Area				
Dungeness NWR	WA	USFWS	I	Saltwater fishing and shellfishing are restricted in four marine zones by zone and time of year
Grays Harbor NWR	WA	USFWS	I	
Nisqually NWR	WA	USFWS	I	Saltwater fishing allowed
Protection Island NWR	WA	USFWS	S, I	No public access
San Juan Islands NWR	WA	USFWS	I	No public access
Willapa NWR	WA	USFWS	I	Fishing, crabbing, and clamming are allowed
USFWS = US Fish & Wildlife Service I = Intertidal S = Subtidal				

Table 3. National parks and monuments of coastal California, Oregon, and Washington.

Site Name	Established	State	Managing Agency	Regulations
Redwood National Park	1968	CA	NPS; CDFG	To 1000 feet offshore, finfish and these invertebrates may be taken: abalone(RC), chiones(R), clams(R), cockles(R), rock scallops(R), native oysters(R), crabs(RC), lobsters(RC), ghost shrimp(RC), sea urchins(RC), jackknife clams(C), squid(C), worms(RC)
Pt. Reyes National Seashore	1962	CA	NPS; CDFG	To 1000 feet offshore, finfish and these invertebrates may be taken: abalone(RC), chiones(R), clams(R), cockles(R), rock scallops(R), native oysters(R), crabs(RC), lobsters(RC), ghost shrimp(RC), sea urchins(RC), jackknife clams(C), squid(C), worms(RC)
Pt. Reyes Headlands National Research Natural Area	1972	CA	NPS; CDFG	Recreational and commercial fishing are allowed
Golden Gate National Recreation Area	1972	CA	NPS; CDFG	To 1000 feet offshore, finfish and these invertebrates may be taken: abalone(RC), chiones(R), clams(R), cockles(R), rock scallops(R), native oysters(R), crabs(RC), lobsters(RC), ghost shrimp(RC), sea urchins(RC), jackknife clams(C), squid(C), worms(RC)
San Francisco Maritime National Historical Park	1988	CA	NPS	
Channel Islands National Park	1980	CA	NPS; CDFG	To 1000 feet offshore, finfish and these invertebrates may be taken: abalone(RC), chiones(R), clams(R), cockles(R), rock scallops(R), native oysters(R), crabs(RC), lobsters(RC), ghost shrimp(RC), sea urchins(RC), jackknife clams(C), squid(C), worms(RC)
Santa Monica Mountains National Recreational Area	1978	CA	NPS; CDPR	
Cabrillo National Monument	1913	CA	NPS; CDFG	Recreational and commercial fishing are allowed, but no invertebrates may be taken and finfish may only be taken by hook-and-line
Ebey's Landing National Historical Reserve	1978	WA	NPS; WPRC	No harvest of non-game invertebrates; no algae harvest (includes Fort Casey and Fort Ebey state parks)
San Juan Island National Historical Park	1966	WA	NPS	
Olympic National Park	1938	WA	NPS	Recreational fishing is allowed; park boundary is at lower low water.

Table 3, continued.

CDFG = California Department of Fish and Game  
CDPR = California Department of Parks and Recreation  
NPS = National Park Service  
WPRC = Washington State Parks & Recreation Commission  
C = Commercial Fishing  
R = Recreational fishing

Table 4. Marine protected areas designated by state and local governments in California

Site Name	Established	State	Managing Agency	Regulations
Redwood National Park ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Kelp Beds at Trinidad Head ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Kings Range MRPA Ecological Reserve	1994	CA	CDFG	Recreational (R) and commercial (C) fishing prohibited
King Range Nat'l Conserv. Area ASBS	1974	CA	CWRCB	Recreational (R) and commercial (C) fishing allowed
MacKerricher State Park	1970	CA	CDPR; CDFG; SLC	To 1000 feet offshore, finfish and these invertebrates may be taken: abalone(RC), chiones(R), clams(R), cockles(R), rock scallops(R), native oysters(R), crabs(RC), lobsters(RC), ghost shrimp(RC), sea urchins(RC), jackknife clams(C), squid(C), worms(RC)
Pygmy ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Pt. Cabrillo Reserve	1975	CA	CDFG	Recreational fishing prohibited; Commercial fishing allowed for finfish and the following invertebrates: lobster, abalone, crab.
Russian Gulch State Park	1970	CA	CDPR; CDFG; SLC	To 1000 feet offshore, finfish and these invertebrates may be taken: abalone(RC), chiones(R), clams(R), cockles(R), rock scallops(R), native oysters(R), crabs(RC), lobsters(RC), ghost shrimp(RC), sea urchins(RC), jackknife clams(C), squid(C), worms(RC)
Van Damme State Park	1970	CA	CDPR; CDFG; SLC	To 1000 feet offshore, finfish and these invertebrates may be taken: abalone(RC), chiones(R), clams(R), cockles(R), rock scallops(R), native oysters(R), crabs(RC), lobsters(RC), ghost shrimp(RC), sea urchins(RC), jackknife clams(C), squid(C), worms(RC)
Manchester State Park	1970	CA	CDPR; CDFG; SLC	To 1000 feet offshore, finfish and these invertebrates may be taken: abalone(RC), chiones(R), clams(R), cockles(R), rock scallops(R), native oysters(R), crabs(RC), lobsters(RC), ghost shrimp(RC), sea urchins(RC), jackknife clams(C), squid(C), worms(RC)

Site Name	Established	State	Managing Agency	Regulations
Arena Rock Natural Preserve	1987	CA	CDPR; CDFG; SLC	No person shall drive, operate, place, land, taxi, takeoff, or stop a motor vehicle, motorboat, or aircraft within the boundaries
Kelp Beds at Saunders Reef ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Del Mar Landing Ecological Reserve ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Del Mar Landing Ecological Reserve	1972	CA	CDFG	Recreational fishing allowed for finfish only; Commercial fishing prohibited
Salt Point State Park	1970	CA	CDPR; CDFG; SLC	To 1000 feet offshore, finfish and these invertebrates may be taken: abalone(RC), chiones(R), clams(R), cockles(R), rock scallops(R), native oysters(R), crabs(RC), lobsters(RC), ghost shrimp(RC), sea urchins(RC), jackknife clams(C), squid(C), worms(RC)
Gerstle Cove ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Gerstle Cove Reserve	1971	CA	CDFG	Recreational fishing prohibited; Commercial fishing allowed for finfish and the following invertebrates: lobster, abalone, crab.
Fort Ross State Historic Park	1970	CA	CDPR; CDFG; SLC	Commercial fishing allowed; To 1000 feet offshore, recreational fishing for finfish and the following invertebrates: abalone, chiones, clams, cockles, rock scallops, native oysters, crabs, lobsters, ghost shrimp, sea urchins
Sonoma Coast State Beach	1970	CA	CDPR; CDFG; SLC	Commercial fishing allowed; To 1000 feet offshore, recreational fishing for finfish and the following invertebrates: abalone, chiones, clams, cockles, rock scallops, native oysters, crabs, lobsters, ghost shrimp, sea urchins
Bodega Marine Life Refuge ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Bodega Marine Life Refuge	1965	CA	CDFG	Recreational (R) and commercial (C) fishing allowed only for finfish
Central California Biosphere Reserve	1988	CA	Multiple;	Recreational (R) and commercial (C) fishing allowed
Bird Rock ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Pt. Reyes Headlands Reserve and Extension Area ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Pt. Reyes Headlands Reserve	1972	CA	CDFG;	Recreational fishing prohibited; Commercial fishing allowed for finfish and the following invertebrates: lobster, abalone, crab.

Site Name	Established	State	Managing Agency	Regulations
Double Point ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Duxbury Reef ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Duxbury Reef Reserve	1971	CA	CDFG	Commercial fishing allowed; recreational fishing only for: abalone, D. crab, rock crab, rockfish, lingcod, cabezon, surfperch, halibut, flounder, sole, turbot, salmon, kelp greenling, striped bass, steelhead, monkey-faced eel, wolf-eel, smelt, silversides
Farallon Island ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Farallon Islands Game Refuge	1971	CA	CDFG	Recreational (R) and commercial (C) fishing allowed
James V Fitzgerald Marine Reserve ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
James V Fitzgerald Marine Reserve	1969	CA	CDFG	Recreational fishing only for abalone, rockfish, lingcod, surfperch, monkey-faced eel, rock eel, white croaker, halibut, cabezon, kelp greenling, and smelt. Finfish taken only by hook-and-line or spearfishing. Commercial fishing only by holders of species-specific CDFG permits; To 1000 feet offshore, only the following invertebrates may be taken: lobster, abalone, crab. Abalone may be taken in waters 20 feet or more in depth.
Ano Nuevo Point and Island ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Pacific Grove Marine Gardens Fish Refuge and Hopkins Marine Life Refuge ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Hopkins Marine Life Refuge	1984	CA	CDFG	Recreational (R) and commercial (C) fishing prohibited
Pacific Grove Marine Gardens Fish Refuge	1984	CA	CDFG	Recreational fishing allowed, but mollusks and crustaceans may not be taken; Commercial fishing allowed, but only sardines, mackerel, anchovies, squid, and herring may be taken by ring net, lampara net, or bait net.
Carmel Bay Ecological Reserve ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Carmel Bay Ecological Reserve	1976	CA	CDFG	Recreational fishing allowed for finfish only; Commercial fishing prohibited

Site Name	Established	State	Managing Agency	Regulations
California Sea Otter Game Refuge	1959	CA	CDFG	Recreational (R) and commercial (C) fishing allowed
Point Lobos Ecological Reserve ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Point Lobos Ecological Reserve	1973	CA	CDFG	Recreational (R) and commercial (C) fishing prohibited
Point Lobos Reserve	1963	CA	CDPR; CDFG; SLC	To 1000 feet offshore, finfish and these invertebrates may be taken: abalone(RC), chiones(R), clams(R), cockles(R), rock scallops(R), native oysters(R), crabs(RC), lobsters(RC), ghost shrimp(RC), sea urchins(RC), jackknife clams(C), squid(C), worms(RC)
Julia Pfeiffer Burns Underwater Park ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Julia Pfeiffer Burns State Park	1970	CA	CDPR; CDFG; SLC	To 1000 feet offshore, finfish and these invertebrates may be taken: abalone(RC), chiones(R), clams(R), cockles(R), rock scallops(R), native oysters(R), crabs(RC), lobsters(RC), ghost shrimp(RC), sea urchins(RC), jackknife clams(C), squid(C), worms(RC)
Big Creek MRPA Ecological Reserve	1994	CA	CDFG	Recreational (R) and commercial (C) fishing prohibited
Ocean Area Surrounding the Mouth of Salmon Creek ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Atascadero Beach Pismo Clam Preserve (Clam Refuge)	1985	CA	CDFG	Recreational (R) and commercial (C) fishing allowed, but no clams may be taken
Morro Beach Pismo Clam Preserve (Clam Refuge)	1985	CA	CDFG	Recreational (R) and commercial (C) fishing allowed, but no clams may be taken
Pismo Invertebrate Reserve	1977	CA	CDFG	Recreational fishing is allowed only for finfish; Commercial fishing is allowed for finfish and the following shellfish: lobster, abalone, crab
Pismo-Oceano Beach Pismo Clam Preserve (Clam Refuge)	1985	CA	CDFG	Recreational (R) and commercial (C) fishing allowed, but no clams may be taken
Vandenberg MRPA Ecological Reserve	1994	CA	CDFG; Vandenberg AFB	Recreational (R) and commercial (C) fishing prohibited
Channel Islands Biosphere Reserve	1976	CA	Multiple	Recreational (R) and commercial (C) fishing allowed
Santa Barbara Channel Ecological Preserve	1969	CA	MMS; CDFG; SLC	Recreational (R) and commercial (C) fishing allowed
San Miguel Island Ecological Reserve	1977	CA	CDFG	Recreational fishing by hook-and-line, spear gun, or hand-held implements in areas open



Site Name	Established	State	Managing Agency	Regulations
				to boating; Commercial fishing under permit for abalone, lobster, or sea urchin, or using hook-and-line or traps for rock crab, only in areas open to boating. Other gear/species fishermen must apply for and obtain permit
Santa Barbara Island Ecological Reserve	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Anacapa Island Ecological Reserve	1978	CA	CDFG	Recreational and commercial fishing allowed, but: Nothing taken in Natural area on north side of East Anacapa Is.; no invertebrates taken in closures on south side of West Anacapa Is. on north side of Middle Anacapa Is; No net or trap used in waters less than 20 feet depth; No entry to closed area on north side of West Anacapa Is. Jan. 1 to Oct. 31
Samta Barbara Island Ecological Reserve	1978	CA	CDFG	Recreational and commercial fishing allowed, but: no invertebrates taken in special closure on eastern side of island, and no net or trap used in that area
Santa Barbara and Anacapa Islands ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
San Nicolas and Begg Rock ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Big Sycamore Canyon MRPA Ecological Reserve	1994	CA	CDFG	Recreational (R) and commercial (C) fishing prohibited
Mugu Lagoon to Latigo Point ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Abalone Cove Ecological Reserve	1977	CA	CDFG	Recreational fishing for finfish only; Commercial fishing prohibited
Point Fermin Marine Life Refuge	1969	CA	CDFG	Recreational fishing only for abalone, lobster, rockfish, greenling, lingcod, cabezon, yellowtail, mackerel, bluefin tuna, kelp bass, spotted sand bass, barred sand bass, sargo, croaker, queenfish, corbina, white seabass, opaleye, halfmoon, surfperch, blacksmith, barracuda, sheephead, bonito, CA halibut, sole, turbot, and sanddab. Finfish taken only by hook-and-line or spearfishing. Commercial fishing only by holders of species-specific CDFG permits; To 1000 feet offshore, only the following invertebrates may be taken: lobster, abalone, crab.
Santa Catalina Island-Subarea One	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed

Site Name	Established	State	Managing Agency	Regulations
Catalina Science Marine Life Refuge	1988	CA	CDFG	Recreational (R) and commercial (C) fishing prohibited
Santa Catalina Island-Subarea Two	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Farnsworth Bank Ecological Reserve	1972	CA	CDFG	Recreational (R) and commercial (C) fishing allowed, but no purple coral or geological specimens may be taken
Santa Catalina Island-Subarea Three	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Lovers Cove Reserve	1974	CA	CDFG	Recreational fishing prohibited; Commercial fishing allowed for finfish and the following invertebrates: lobster, abalone, crab.
Santa Catalina Island-Subarea Four	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
San Clemente Island ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Newport Marine Life Refuge	1968	CA	CDFG	Recreational fishing only for abalone, lobster, rockfish, greenling, lingcod, cabezon, yellowtail, mackerel, bluefin tuna, kelp bass, spotted sand bass, barred sand bass, sargo, croaker, queenfish, corbina, white seabass, opaleye, halfmoon, surfperch, blacksmith, barracuda, sheephead, bonito, CA halibut, sole, turbot, and sanddab. Finfish taken only by hook-and-line or spearfishing. Commercial fishing only by holders of species-specific CDFG permits; To 1000 feet offshore, only the following invertebrates may be taken: lobster, abalone, crab.
Newport Marine Life Refuge ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Crystal Cove State Park	1982	CA	CDPR; CDFG; SLC	To 1000 feet offshore, finfish and these invertebrates may be taken: abalone(RC), chiones(R), clams(R), cockles(R), rock scallops(R), native oysters(R), crabs(RC), lobsters(RC), ghost shrimp(RC), sea urchins(RC), jackknife clams(C), squid(C), worms(RC)
Irvine Coast Marine Life Refuge	1971	CA	CDFG	Recreational fishing only for abalone, lobster, rockfish, greenling, lingcod, cabezon, yellowtail, mackerel, bluefin tuna, kelp bass, spotted sand bass, barred sand bass, sargo, croaker, queenfish, corbina, white seabass, opaleye, halfmoon, surfperch, blacksmith, barracuda, sheephead, bonito,

Site Name	Established	State	Managing Agency	Regulations
				CA halibut, sole, turbot, and sanddab. Finfish taken only by hook-and-line or spearfishing. Commercial fishing only by holders of species-specific CDFG permits; To 1000 feet offshore, only the following invertebrates may be taken: lobster, abalone, crab.
Irvine Coast Marine Life Refuge ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Laguna Beach Marine Life Refuge	1968	CA	CDFG	Recreational fishing only for abalone, lobster, rockfish, greenling, lingcod, cabezon, yellowtail, mackerel, bluefin tuna, kelp bass, spotted sand bass, barred sand bass, sargo, croaker, queenfish, corbina, white seabass, opaleye, halfmoon, surfperch, blacksmith, barracuda, sheephead, bonito, CA halibut, sole, turbot, and sanddab. Finfish taken only by hook-and-line or spearfishing. Commercial fishing only by holders of species-specific CDFG permits; To 1000 feet offshore, only the following invertebrates may be taken: lobster, abalone, crab.
Heisler Park Ecological Reserve	1973	CA	CDFG	Recreational (R) and commercial (C) fishing prohibited
Heisler Park Ecological Reserve ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
South Laguna Beach Marine Life Refuge	1968	CA	CDFG	Recreational fishing only for abalone, lobster, rockfish, greenling, lingcod, cabezon, yellowtail, mackerel, bluefin tuna, kelp bass, spotted sand bass, barred sand bass, sargo, croaker, queenfish, corbina, white seabass, opaleye, halfmoon, surfperch, blacksmith, barracuda, sheephead, bonito, CA halibut, sole, turbot, and sanddab. Finfish taken only by hook-and-line or spearfishing. Commercial fishing only by holders of species-specific CDFG permits; To 1000 feet offshore, only the following invertebrates may be taken: lobster, abalone, crab
Niguel Marine Life Refuge	1971	CA	CDFG	Recreational fishing only for abalone, lobster, rockfish, greenling, lingcod, cabezon, yellowtail, mackerel, bluefin tuna, kelp bass, spotted sand bass, barred sand bass, sargo, croaker, queenfish, corbina, white seabass, opaleye, halfmoon, surfperch, blacksmith, barracuda, sheephead, bonito, CA halibut, sole, turbot, and sanddab.

Site Name	Established	State	Managing Agency	Regulations
				<p>Finfish taken only by hook-and-line or spearfishing.</p> <p>Commercial fishing only by holders of species-specific CDFG permits; To 1000 feet offshore, only the following invertebrates may be taken: lobster, abalone, crab.</p>
Dana Point Marine Life Refuge	1971	CA	CDFG	<p>Recreational fishing only for abalone, lobster, rockfish, greenling, lingcod, cabezon, yellowtail, mackerel, bluefin tuna, kelp bass, spotted sand bass, barred sand bass, sargo, croaker, queenfish, corbina, white seabass, opaleye, halfmoon, surfperch, blacksmith, barracuda, sheephead, bonito, CA halibut, sole, turbot, and sanddab.</p> <p>Finfish taken only by hook-and-line or spearfishing.</p> <p>Commercial fishing only by holders of species-specific CDFG permits; To 1000 feet offshore, only the following invertebrates may be taken: lobster, abalone, crab. No species may be taken in the intertidal zone.</p>
Doheny State Beach	1970	CA	CDPR; CDFG; SLC	<p>To 1000 feet offshore, finfish and these invertebrates may be taken: abalone(RC), chiones(R), clams(R), cockles(R), rock scallops(R), native oysters(R), crabs(RC), lobsters(RC), ghost shrimp(RC), sea urchins(RC), jackknife clams(C), squid(C), worms(RC)</p>
Doheny Marine Life Refuge	1969	CA	CDFG	<p>Recreational fishing only for abalone, lobster, rockfish, greenling, lingcod, cabezon, yellowtail, mackerel, bluefin tuna, kelp bass, spotted sand bass, barred sand bass, sargo, croaker, queenfish, corbina, white seabass, opaleye, halfmoon, surfperch, blacksmith, barracuda, sheephead, bonito, CA halibut, sole, turbot, and sanddab.</p> <p>Finfish taken only by hook-and-line or spearfishing.</p> <p>Commercial fishing only by holders of species-specific CDFG permits; To 1000 feet offshore, only the following invertebrates may be taken: lobster, abalone, crab.</p>
City of Encinitas Marine Life Refuge	1989	CA	CDFG	<p>Recreational fishing only for abalone, lobster, rockfish, greenling, lingcod, cabezon, yellowtail, mackerel, bluefin tuna, kelp bass, spotted sand bass, barred sand bass, sargo, croaker, queenfish, corbina, white seabass, opaleye, halfmoon, surfperch, blacksmith, barracuda, sheephead, bonito, CA halibut, sole, turbot, and sanddab.</p> <p>Finfish taken only by hook-and-line or</p>

Site Name	Established	State	Managing Agency	Regulations
				spearfishing. Commercial fishing only by holders of species-specific CDFG permits; To 1000 feet offshore, only the following invertebrates may be taken: lobster, abalone, crab.
Cardiff and Elijo State Beaches	1989	CA	CDPR; CDFG; SLC	Commercial fishing allowed; To 1000 feet offshore, recreational fishing for finfish and the following invertebrates: abalone, chiones, clams, cockles, rock scallops, native oysters, crabs, lobsters, ghost shrimp, sea urchins
San Diego-La Jolla City Underwater Park	1970	CA	LJDPR; CDFG; SLC	Recreational (R) and commercial (C) fishing allowed
San Diego Marine Life Refuge	1957	CA	CDFG	Recreational (R) and commercial (C) fishing allowed only for finfish
Scripps Coastal Reserve	1965	CA	UC; CDFG	Recreational (R) and commercial (C) fishing prohibited
San Diego Marine Life Refuge ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
San Diego-La Jolla Ecological Reserve	1971	CA	CDFG	Recreational fishing prohibited; Commercial fishing allowed only for bait squid using a hand-held scoop net.
San Diego-Lajolla Ecological Reserve ASBS	1974	CA	CWRCB; RWQCB; CDFG	Recreational (R) and commercial (C) fishing allowed
Point Loma Reserve	1978	CA	CDFG; NPS	Recreational fishing for finfish only; Commercial fishing for finfish, with restrictions on invertebrates. To 1000 feet offshore, only the following invertebrates may be taken commercially: lobster, abalone, crab.
California Coastal Sanctuary	1995	CA	SLC; Multiple	Recreational (R) and commercial (C) fishing allowed
ASBS - Area of Special Biological Significance MMS = Minerals Management Service CDFG = California Department of Fish and Game CDPR = California Department of Parks and Recreation CWRCB = California Water Resources Control Board LJDPR = La Jolla Department of Parks and Recreation RWQCB = Regional Water Quality Control Boards SLC = California State Lands Commission UC = University of California				

Table 5. Marine protected areas designated by state and local governments in Oregon.

Site Name	Established	State	Managing Agency	Zone	Regulations
Haystack Rock Marine Garden		OR	ODFW	I	Closed to take of shellfish and marine invertebrates, except single mussels may be taken for bait
Cape Kiwanda Marine Garden	1997	OR	ODFW	I	Closed to take of shellfish and marine invertebrates, except single mussels may be taken for bait
Otter Rock Marine Garden		OR	ODFW	I	Closed to take of shellfish and marine invertebrates, except single mussels may be taken for bait
Yaquina Head Marine Garden		OR	ODFW	I	Closed to take of shellfish and marine invertebrates, except single mussels may be taken for bait
Yachats Marine Garden	1997	OR	ODFW	I	Closed to take of shellfish and marine invertebrates, except single mussels may be taken for bait
Cape Perpetua Marine Garden		OR	ODFW	I	Closed to take of shellfish and marine invertebrates, except razor clams may be taken and single mussels may be taken for bait
Harris Beach Marine Garden		OR	ODFW	I	Closed to take of shellfish and marine invertebrates, except single mussels may be taken for bait
Netarts Bay Shellfish Reserve		OR	ODFW	S, I	Closed to the taking of clams
Yaquina Bay Shellfish Reserve		OR	ODFW	S, I	Closed to the taking of clams
Pyramid Rock		OR	ODFW	S	Closed to the taking of marine fish, shellfish, and invertebrates from 1000 feet around and including Pyramid Rock May 1-Aug.31.
Pirates Cove Subtidal Research Reserve		OR	ODFW	S	Closed to the taking of shellfish and marine invertebrates
Gregory Point Subtidal Research Reserve		OR	ODFW	S	Closed to the taking of shellfish and marine invertebrates
Boiler Bay Intertidal Research Reserve		OR	ODFW	I	Closed to the taking of shellfish and marine invertebrates, except abalone, clams, Dungeness crab, red rock crab, mussels, piddocks, scallops, and shrimp may be taken.
Neptune State Park Intertidal Research Reserve		OR	ODFW	I	Closed to the taking of shellfish and marine invertebrates, except abalone, clams, Dungeness crab, red rock crab, mussels, piddocks, scallops, and shrimp may be taken.

Site Name	Established	State	Managing Agency	Zone	Regulations
Cape Arago Intertidal Research Reserve		OR	ODFW	I	Closed to the taking of shellfish and marine invertebrates, except abalone, clams, Dungeness crab, red rock crab, mussels, piddocks, scallops, and shrimp may be taken.
Brookings Intertidal Research Reserve		OR	ODFW	I	Closed to the taking of shellfish and marine invertebrates, except abalone, clams, Dungeness crab, red rock crab, mussels, piddocks, scallops, and shrimp may be taken.
Whale Cove Intertidal Research Reserve		OR	ODFW	S	Closed to the taking of marine fish, shellfish, and invertebrates.
Three Arch Rocks		OR	OMB	S	Closed to boats within 500 feet around main rocks May 1-Sept. 1
<p>ODFW = Oregon Dept. Fish and Wildlife  OMB = Oregon Marine Board  I = Intertidal  S= Subtidal</p>					

Table 6. Marine protected areas designated by state and local governments in Washington.

Site Name	Established	State	Managing Agency	Zone	Regulations
Friday Harbor to Point Caution	1990	WA	WDFW; FHL	S, I	No take of shellfish, bottomfish or food fish, except herring, and except salmon for commercial purposes
Yellow and Low Islands	1990	WA	WDFW; FHL	S, I	No take of shellfish, bottomfish or food fish, except herring, and except salmon for commercial purposes
False Bay	1990	WA	WDFW; FHL	S, I	No take of shellfish, bottomfish or food fish, except herring, and except salmon for commercial purposes
Argyle Lagoon	1990	WA	WDFW; FHL	S, I	No take of shellfish, bottomfish or food fish, except herring, and except salmon for commercial purposes
SW Shaw Island	1990	WA	WDFW; FHL	S, I	No take of shellfish except crab in Parks Bay. No take of bottomfish or food fish, except herring, and except salmon for commercial purposes
San Juan County/ Cypress I.	1923	WA	FHL	S, I	No take of marine biological materials, except for food, kelp, or with permission of the Director, Friday Harbor Marine Laboratories
Edmonds Underwater Park	1970	WA	City of Edmonds	S, I	No take of foodfish or shellfish
Sund Rock	1994	WA	WDFW	S, I	No take of shellfish, except shrimp; no take of food fish, except salmon and trout
Haro Strait	1979-1987	WA	WDFW	S, I	Closed to commercial harvest of sea urchins and sea cucumbers
San Juan & Upright Channel	1972	WA	WDFW	S, I	Closed to commercial harvest of sea urchins and sea cucumbers
Point Lawrence	1997	WA	San Juan County	S, I	Voluntary no-take of bottomfish
Bell Island	1997	WA	San Juan County	S, I	Voluntary no-take of bottomfish
Charles Island	1997	WA	San Juan County	S, I	Voluntary no-take of bottomfish
Pile Point	1997	WA	San Juan County	S, I	Voluntary no-take of bottomfish
Lime Kiln Lighthouse	1997	WA	San Juan County	S, I	Voluntary no-take of bottomfish
Kellett Bluff	1997	WA	San Juan County	S, I	Voluntary no-take of bottomfish
Gull Rock	1997	WA	San Juan County	S, I	Voluntary no-take of bottomfish
Bare Island	1997	WA	San Juan County	S, I	Voluntary no-take of bottomfish



Site Name	Eatablished	State	Managing Agency	Zone	Regulations
Dabob Bay	1987	WA	DNR	I	Open to approved scientific research projects and educational functions, but closed to all other public activities
Kennedy Creek	1990	WA	DNR	I	Open to approved scientific research projects and educational functions, but closed to all other public activities
Skookum Inlet	1986	WA	DNR	I	Open to approved scientific research projects and educational functions, but closed to all other public activities
Zella M. Schultz / Protection Island	1975	WA	WDFW; USFWS	S, I	Closed to public access
Tongue Point	1989	WA	Clallam County	S, I	Removal of any marine life by permit only, except fish caught by sport fishing or clams, crabs, or mussels gathered in season.
Yellow Island	1980	WA	TNC	I	No collection of plants or animals, no fishing while on preserve property; limited public access
Chuckanut Island	1972	WA	TNC	I	No collection of plants or animals, no fishing while on preserve property; limited public access
Foulweather Bluff	1966	WA	TNC	I	No collection of plants or animals, no fishing while on preserve property; limited public access
Goose Island	1975	WA	TNC	I	No public access
Deadman Island	1975	WA	TNC	I	No public access
Sentinel Island	1979	WA	TNC	I	No public access
Waldron Island	1968	WA	TNC	I	No collection of plants or animals, no fishing while on preserve property; limited public access
Lummi Island	199?	WA	WDFW	I	Generally closed to public access, although not enforced at this site
Kimball Preserve, Decatur Island	1985	WA	SJPT	I	No public access
South Puget Sound	1988	WA	WDFW	I	Non-consumptive recreational and educational use only
Titlow Beach	1994	WA	METRO/Tacoma	S, I	No take of shellfish or food fish, except salmon with artificial lures.
Cypress Island	1987	WA	DNR	I	None
Woodard Bay	1987	WA	DNR	I	No access in sensitive intertidal areas; access discouraged at sensitive adjacent subtidal areas.
Skagit	1948-1992	WA	WDFW	I	None at this time. Pending management plan may prohibit commercial clamming.
Sequim Bay State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Fort Flagler State Park		WA	WPRC	S, I	No harvest of non-game invertebrates
Fort Worden State Park		WA	WPRC	S, I	No harvest of non-game invertebrates

Site Name	Established	State	Managing Agency	Zone	Regulations
Mystery Bay Marine State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Old Fort Townsend State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Pleasant Harbor State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Triton Cove State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Dash Point State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Saltwater State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Blake Island State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Fay-Bainbridge State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Camano Island State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Fort Ward State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Harper State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Illahee State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Kitsap Memorial State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Manchester State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Old Man House State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Scenic Beach State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Belfair State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Harstine Island State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Hope Island (S.) Marine State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Deception Pass State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Jarrell Cove State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
McMicken Is. Marine State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Potlach State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Squaxin Island State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Stretch Point State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest

Site Name	Established	State	Managing Agency	Zone	Regulations
Twanoh State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Cutts Island Marine State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Eagle Island Marine State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Joemma Beach State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Kopachuch State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Ebey's Landing		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Penrose Point State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Blind Island Marine State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Clark Island Marine State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Doe Island Marine State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
James Island Marine State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Jones Island Marine State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Lime Kiln State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Matia Island Marine State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Moran State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Patos Island Marine State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Fort Casey State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Posev Island Marine State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Spencer Spit State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Stuart Island Marine State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Sucia Island Marine State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Turn Island Marine State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Bay View State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Larrabee State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Saddlebag Island Marine State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest

Site Name	Established	State	Managing Agency	Zone	Regulations
Mukilteo State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Tolmie State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Fort Ebey State Park		WA	WPRC	S, I	No harvest of non-game invertebrates
Birch Bay State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Joseph Whidbey State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
South Whidbey State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Dosewallips State Park		WA	WPRC	S, I	No harvest of non-game invertebrates; no algae harvest
Pacific Beach State Park		WA	WPRC		
Griffiths-Priday State Park		WA	WPRC		
Ocean City State Park		WA	WPRC		
Wethaven State Park		WA	WPRC		
Westport Light State Park		WA	WPRC		
Twin Harbors State Park		WA	WPRC		
Grayland Beach State Park		WA	WPRC		
Leadbetter Point State Park		WA	WPRC		
Pacific Pines State Park		WA	WPRC		
Loomis Lake State Park		WA	WPRC		
Fort Canby State Park		WA	WPRC		
Fort Columbia State Park		WA	WPRC		
Washington State Seashore Conservation Area		WA	WPRC		
Elk River Natural Resources Conservation Area		WA	DNR		
Bone River Natural Area Preserve		WA	DNR		
Goose Island Natural Area Preserve		WA	DNR		
Gunpowder Island Natural Area Preserve		WA	DNR		
Niawiakum River Natural Area Preserve		WA	DNR		

<b>Site Name</b>	<b>Eatablished</b>	<b>State</b>	<b>Managing Agency</b>	<b>Zone</b>	<b>Regulations</b>
Sand Island Natural Area Preserve		WA	DNR		
Whitcomb Flats		WA	DNR		
<p>DNR = Washington Dept. of Natural Resources  Ecology = Washington Dept. of Ecology  TNC = The Nature Conservancy  SJPT = San Juan Preservation Trust  FHL = UW Friday Harbor Laboratories  USFWS = US Fish &amp; Wildlife Service  WDFW = Washington Dept. of Fish and Wildlife  METRO/Tacoma = Metorpolitan Park District of Tacoma  WPRC = Washington State Parks &amp; Recreation Commission</p>					

Table 7. National Estuarine Research Reserves of coastal California, Oregon, and Washington.

Site Name	Established	State	Agency	Zone	Regulations
Tijuana River NERR	1982	CA	USFWS; CDPR	I	Recreational and commercial fishing prohibited
Elkhorn Slough NERR	1979	CA	CDFG; NOAA	I	
South Slough NERR	1974	OR	SSMC; NOAA	I	Recreational clamming and bait gathering allowed; commercial oyster culture limited to the 100 acres as provided in the OCZM grant.
Padilla Bay NERR	1980	WA	Ecology; NOAA	S, I	Public access restricted and discouraged in sensitive marsh areas
<p>USFWS = US Fish &amp; Wildlife Service            CDFG = California Department of Fish and Game            SSMC = South Slough NERR Management Commission            Ecology = Washington Dept. of Ecology            I = Intertidal            S = Subtidal</p>					

Table 8. National Estuary Program sites of coastal California, Oregon, and Washington.

<b>Site Name</b>	<b>Established</b>	<b>State</b>	<b>Managing Agency</b>	<b>Zone</b>	<b>Regulations</b>
Santa Monica NEP	1988	CA	EPA	S,I	No fisheries-specific regulations
Morro Bay NEP	1995	CA	EPA	S,I	No fisheries-specific regulations
San Francisco NEP	1987	CA	EPA	S,I	No fisheries-specific regulations
Tillamook Bay NEP	1992	OR	EPA	S,I	No fisheries-specific regulations
Lower Columbia River NEP	1995	OR, WA	EPA	S,I	No fisheries-specific regulations
Puget Sound NEP	1987	WA	EPA	S,I	No fisheries-specific regulations
EPA = Environmental Protection Agency I = Intertidal S = Subtidal					

Table 9. UNESCO MAB Biosphere Reserve sites of coastal California, Oregon, and Washington.

<b>Site Name</b>	<b>Established</b>	<b>State</b>	<b>Managing Agency</b>	<b>Regulations</b>
Channel Islands MAB Reserve	1976	CA	NOAA, NPS	Recreational and commercial fishing are allowed.
Central California Coast MAB Reserve	1988	CA	NOAA, NPS	Recreational and commercial fishing are allowed.
Cascade Head MAB Reserve	1976	OR	USFS	No fisheries-specific regulations
Olympic MAB Reserve	1976	WA	NPS	Recreational fishing is allowed; national park boundary is at lower low water
<p>MAB = Man and the Biosphere                      NOAA = National Oceanic and Atmospheric Administration                      NPS = National Park Service                      UNESCO = United Nations Educational, Scientific and Cultural Organization                      USFS = US Forest Service</p>				



Table 10. Nearshore submarine cable segments off the coasts of California, Oregon, and Washington.

<b>Cable</b>	<b>Agency</b>	<b>In-Service Date</b>	<b>Status</b>
ATOC Pillar Point	APL	1995	Scientific
ATOC San Simeon Wet Storage 1	APL		Scientific
ATOC San Simeon Wet Storage 2	APL		Scientific
AZCAN	Teleglobe	1983	Retired
COMPAC (Retired 1983)	AT&T	1963	Retired
HAW-1 East West	AT&T	1957	Retired, Scientific
HAW-1 West East	AT&T	1957	Retired, Scientific
HAW-3	AT&T	1974	Retired, Scientific
HAW-4	AT&T	1989	In-Service
HAW-5	AT&T	1993	In-Service
NPC Pacific City	NPC	1991	In-Service
NPS, Sur Ridge to Point Sur	NPS		Scientific
TPC-4	AT&T	1992	In-Service
TPC-4 Canada	AT&T	1992	In-Service
TPC-5 Bandon	AT&T	1996	In-Service
TPC-5 Hawaii	AT&T	1996	In-Service
TPC-5 Japan	AT&T	1996	In-Service
TPC-5 Morro Bay	AT&T	1996	In-Service
Washington-Alaska (N-S) (Retired 1977)	AT&T	1956	Retired
Washington-Alaska (S-N) (Retired 1977)	AT&T	1956	Retired
<p>APL = Applied Physics Laboratory, University of Washington            ATOC = Acoustic Thermometry of Ocean Climate            AZCAN = Australia-New Zealand-Canada            COMPAC = Commonwealth Pacific Cable            HAW = Hawaii            NPC = North Pacific Cable            NPS = Naval Postgraduate School            TPC = Trans-Pacific Cable</p>			

Table 11. Coordinates (decimal degrees) of nearshore submarine cable segments off the coasts of California, Oregon, and Washington.

Location	Sequence	Latitude	Longitude
ATOC Pillar Point			
WP	1	37.3425	123.4452
WP	2	37.3457	123.4437
WP	3	37.3755	123.4183
WP	4	37.3917	123.3832
WP	5	37.3912	123.3373
WP	6	37.3783	123.2083
WP	7	37.3917	123.1683
WP	8	37.4117	123.1018
WP	9	37.4117	123.0583
WP	10	37.4263	123.0417
WP	11	37.4283	123.0295
WP	12	37.4230	123.0068
WP	13	37.4565	122.9500
WP	14	37.4693	122.9167
WP	15	37.4845	122.7167
WP	16	37.4890	122.6438
WP	17	37.4912	122.6112
WP	18	37.4973	122.5612
WP	19	37.4977	122.5525
WP	20	37.4973	122.5242
WP	21	37.4952	122.5173
WP	22	37.4952	122.5112
WP	23	37.5012	122.5072
LP	24	37.4997	122.4995
ATOC San Simeon Wet Storage 1			
WP	1	35.8572	121.7685
WP	2	35.6833	121.7500
ATOC San Simeon Wet Storage 2			
WP	1	35.5245	121.6647
WP	2	35.5073	121.6080
AZCAN			
WP	1	48.7708	125.2657
WP	2	48.6859	125.2440
WP	3	48.5000	125.3116
WP	4	48.4022	125.4469
WP	5	48.3365	125.5459
WP	6	48.3333	125.5942
WP	7	48.2981	125.7536
WP	8	48.2147	125.9324
WP	9	48.1811	125.9903

Location	Sequence	Latitude	Longitude
COMPAC			
WP	1	48.7628	125.2560
WP	2	48.7163	125.2585
WP	3	48.5048	125.3406
WP	4	48.3782	125.5121
WP	5	48.2788	125.6473
WP	6	48.2163	125.7440
WP	7	48.1474	125.8502
WP	8	48.1346	126.0000
HAW-1 East West			
WP	1	38.9803	123.7075
WP	2	38.9937	123.7325
WP	3	39.0012	123.7478
WP	4	39.0028	123.7513
WP	5	38.9995	123.7712
WP	6	38.9942	123.7917
WP	7	38.9883	123.8103
WP	8	38.9842	123.8288
WP	9	38.9825	123.8530
WP	10	38.9770	123.8733
WP	11	38.9683	123.8933
WP	12	38.9645	123.9033
WP	13	38.9333	124.0200
WP	14	38.9183	124.0542
WP	15	38.9000	124.1208
WP	16	38.8333	124.5737
HAW-1 West East			
LP	1	38.9803	123.7075
WP	2	38.9830	123.7163
WP	3	38.9925	123.7450
WP	4	38.9937	123.7480
WP	5	38.9867	123.7655
WP	6	38.9762	123.7803
WP	7	38.9667	123.8000
WP	8	38.9483	123.8342
WP	9	38.9397	123.8513
WP	10	38.9322	123.8695
WP	11	38.9238	123.8870
WP	12	38.9142	123.9062
WP	13	38.8933	123.9333
WP	14	38.9250	123.9950
WP	15	38.7300	124.2417
WP	16	38.6583	124.3700

Location	Sequence	Latitude	Longitude
HAW-3			
LP	1	35.2942	120.8775
WP	2	35.2933	120.8863
WP	3	35.2930	120.9303
WP	4	35.2933	120.9400
WP	5	35.2547	120.0153
WP	6	35.2350	120.0317
WP	7	35.0883	121.1233
WP	8	35.0400	121.1400
WP	9	34.9467	121.2033
WP	10	34.8067	121.2950
WP	11	34.6583	121.3950
HAW-4			
LP	1	38.9812	123.7040
WP	2	38.9812	123.7042
WP	3	38.9815	123.7038
WP	4	38.9858	123.7123
WP	5	38.9988	123.7350
WP	6	39.0003	123.7368
WP	7	39.0027	123.7410
WP	8	39.0983	123.8615
WP	9	39.1017	123.8782
WP	10	39.0492	123.9892
WP	11	39.0433	124.1432
WP	12	39.0413	124.1740
WP	13	39.0410	124.1667
WP	14	39.0365	124.1817
WP	15	39.0267	124.2263
HAW-5			
LP	1	35.3003	120.8725
WP	2	35.3042	120.8860
WP	3	35.3053	120.8878
WP	4	35.3082	120.8913
WP	5	35.3092	120.8920
WP	6	35.3090	120.8922
WP	7	35.3130	120.8985
WP	8	35.3185	120.9070
WP	9	35.3225	120.9155
WP	10	35.3252	120.9252
WP	11	35.3272	120.9410
WP	12	35.3273	120.9427
WP	13	35.3312	120.9753
WP	14	35.3338	120.9970
WP	15	35.3342	121.0078
WP	16	35.3333	121.2698
WP	17	35.3333	121.6535
WP	18	35.2083	122.0483

Location	Sequence	Latitude	Longitude
HAW-5, continued.			
WP	19	35.0083	122.3850
WP	20	34.9583	123.3167
WP	21	34.7267	124.9167
North Pacific Cable (NPC) Pacific City			
LP	1	45.2034	123.9840
WP	2	45.2020	124.2000
WP	3	45.2805	124.5528
WP	4	45.2873	124.5832
WP	5	45.3544	124.8740
WP	6	45.4071	124.9638
WP	7	45.3821	125.0301
WP	8	45.3972	125.1162
WP	9	45.4300	125.2528
WP	10	45.4131	125.2869
WP	11	45.4116	125.2881
WP	12	45.3998	125.3672
WP	13	45.4084	125.4344
WP	14	45.9814	126.4838
WP	15	46.9501	128.2848
NPS Sur Ridge to Point Sur			
WP	1	36.3167	122.3977
WP	2	36.2992	122.3938
WP	3	36.2667	122.3878
WP	4	36.2500	122.3743
WP	5	36.2483	122.3345
WP	6	36.2667	122.1677
WP	7	36.2833	122.0012
WP	8	36.2945	121.9177
WP	9	36.2992	121.8902
LP	10	36.3033	121.8885
TPC-4			
LP	1	38.9812	123.7042
WP	2	38.9858	123.7123
WP	3	38.9923	123.7207
WP	4	39.1023	123.8393
WP	5	39.1132	123.8575
WP	6	39.1192	123.8792
WP	7	39.1593	124.2660
WP	8	39.1605	124.2773
WP	9	39.1620	124.2858
WP	10	39.1650	124.3217
WP	11	39.1667	125.3833
WP	12	39.0833	126.4083
WP	13	39.1167	126.9167
WP	14	39.1967	128.2467
WP	15	39.8983	129.7717

Location	Sequence	Latitude	Longitude
TPC-4 Canada			
WP	1	48.5667	125.2475
WP	2	48.5167	125.2667
WP	3	48.4958	125.2833
WP	4	48.4660	125.3173
WP	5	48.3833	125.4000
WP	6	48.3223	125.4493
WP	7	48.3170	125.5912
WP	8	48.2800	125.7485
WP	9	48.1780	125.9583
WP	10	48.1383	125.9967
WP	11	47.9495	125.9993
WP	12	47.8822	125.9533
WP	13	47.8645	125.9753
WP	14	47.8268	126.0330
WP	15	47.7967	126.0833
WP	16	47.6817	126.2383
TPC-5 Bandon			
LP	1	43.2512	124.3845
WP	2	43.2512	124.4150
WP	3	43.2473	124.4333
WP	4	43.2115	124.5250
WP	5	43.2068	124.6688
WP	6	43.1982	124.9653
WP	7	43.1967	125.0150
WP	8	43.1600	125.2167
WP	9	43.1307	125.3058
TPC-5 Hawaii			
WP	1	35.3003	120.8725
WP	2	35.3022	120.9500
WP	3	35.3022	120.9532
WP	4	35.3017	120.9718
WP	5	35.3000	121.0800
WP	6	35.2923	121.2833
WP	7	35.2850	121.3333
WP	8	35.2798	121.4133
WP	9	35.2720	121.6875
WP	10	35.2583	121.7200
WP	11	35.2443	121.7582
WP	12	35.2017	121.8600
WP	13	35.1200	122.0500
WP	14	34.9450	122.4167

Location	Sequence	Latitude	Longitude
TPC-5 Japan			
LP	1	43.2512	124.3845
WP	2	43.2533	124.4012
WP	3	43.2533	124.4130
WP	4	43.2498	124.4300
WP	5	43.2183	124.5100
WP	6	43.2152	124.5250
WP	7	43.2150	124.6833
WP	8	43.2200	124.7600
WP	9	43.2288	125.0308
WP	10	43.2500	125.3333
TPC-5 Morro Bay			
WP	1	35.3003	120.8725
WP	2	35.3047	120.8852
WP	3	35.3303	120.9167
WP	4	35.3362	120.9248
WP	5	35.3422	120.9363
WP	6	35.3513	120.9548
WP	7	35.3532	120.9605
WP	8	35.3545	120.9757
WP	9	35.3567	121.0037
WP	10	35.3577	121.0167
WP	11	35.3592	121.0887
WP	12	35.3667	121.1483
WP	13	35.3950	121.3950
WP	14	35.4092	121.5583
WP	15	35.4133	121.6050
WP	16	35.4050	121.8417
WP	17	35.4033	121.8617
WP	18	35.3950	121.9050
WP	19	35.3367	122.3617
Washington-Alaska (N-S)			
WP	1	48.4551	124.7343
WP	2	48.4503	124.8237
WP	3	48.4343	124.8792
WP	4	48.4295	124.9082
WP	5	48.3365	125.3140
WP	6	48.3894	125.3551
WP	7	48.4022	125.4469
WP	8	48.4151	125.5169
WP	9	48.4263	125.5966
WP	10	48.4968	125.7560
WP	11	48.5321	125.8937
WP	12	48.5737	126.1667

<b>Location</b>	<b>Sequence</b>	<b>Latitude</b>	<b>Longitude</b>
Washington-Alaska (S-N)			
WP	1	48.4375	124.7367
WP	2	48.4119	124.9106
WP	3	48.3157	125.2101
WP	4	48.2901	125.2536
WP	5	48.2901	125.3237
WP	6	48.3269	125.3768
WP	7	48.3189	125.4130
WP	8	48.3333	125.4227
WP	9	48.4087	125.5966
WP	10	48.4087	125.6498
WP	11	48.4327	125.7536
WP	12	48.4423	125.8213
WP	13	48.4471	125.8889
WP	14	48.4551	125.9034
WP	15	48.4760	126.0242
WP	16	48.5096	126.1667
LP = Land Point			
WP = Water Point			

Table 12. Offshore drilling platforms of coastal California, Oregon, and Washington (coordinates in decimal degrees).

Ref.	Structure	Operator	Regulations	Authority	Latitude	Longitude
1	Platform GRACE	Chevron, U.S.A.	500 meter Safety Zone - access only to vessels less than 100 feet in length that are not engaged in towing	33 CFR 147.1102	34.1797	119.4681
2	Platform GINA	Nuevo Energy Co.	500 meter Safety Zone - access only to vessels less than 100 feet in length that are not engaged in towing	33 CFR 147.1103	34.1172	119.2764
3	Platform ELLEN	Aera Energy LLC	500 meter Safety Zone - access only to vessels less than 100 feet in length that are not engaged in towing	33 CFR 147.1104	33.5825	118.1283
4	Platform ELLY	Aera Energy LLC	500 meter Safety Zone - access only to vessels less than 100 feet in length that are not engaged in towing	33 CFR 147.1104	33.5833	118.1278
5	Platform HONDO	Exxon Company, U.S.A.	500 meter Safety Zone - access only to vessels less than 100 feet in length that are not engaged in towing	33 CFR 147.1105	34.3908	120.1206
6	Exxon Santa Ynez offshore storage and treatment vessel mooring (removed 1994)	Exxon Company, U.S.A.	1,108 meter Safety Zone - access only to vessels less than 100 feet in length that are not engaged in towing	33 CFR 147.1106	34.4053	120.1000
7	Platform GILDA	Nuevo Energy Co.	500 meter Safety Zone - access only to vessels less than 100 feet in length that are not engaged in towing	33 CFR 147.1107	34.1822	119.4186
8	Platform EDITH	Nuevo Energy Co.	500 meter Safety Zone - access only to vessels less than 100 feet in length that are not engaged in towing	33 CFR 147.1108	33.5958	118.1408
9	Platform HERMOSA	Chevron, U.S.A.	500 meter Safety Zone - access only to vessels less than 100 feet in length that are not engaged in towing	33 CFR 147.1109	34.4553	120.6464
10	Platform HARVEST	Chevron, U.S.A.	500 meter Safety Zone - access only to vessels less than 100 feet in length that are not engaged in towing	33 CFR 147.1110	34.4693	120.6795
11	Platform EUREKA	Aera Energy LLC	500 meter Safety Zone - access only to vessels less than 100 feet in length that are not engaged in towing	33 CFR 147.1111	33.5639	118.1167

<b>Ref. Structure</b>	<b>Operator</b>	<b>Regulations</b>	<b>Authority</b>	<b>Latitude</b>	<b>Longitude</b>
12 Platform HIDALGO	Chevron, U.S.A.	500 meter Safety Zone - access only to vessels less than 100 feet in length that are not engaged in towing	33 CFR 147.1112	34.4950	120.7022
13 Platform GAIL	Chevron, U.S.A.	500 meter Safety Zone - access only to vessels less than 100 feet in length that are not engaged in towing	33 CFR 147.1113	34.1250	119.4003
14 Platform HARMONY	Exxon Company, U.S.A.	500 meter Safety Zone - access only to vessels less than 100 feet in length that are not engaged in towing	33 CFR 147.1114	34.3767	120.1675
15 Platform HERITAGE	Exxon Company, U.S.A.	500 meter Safety Zone - access only to vessels less than 100 feet in length that are not engaged in towing	33 CFR 147.1115	34.3503	120.2792
16 Platform IRENE	Torch Operating Company	500 meter Safety Zone - access only to vessels less than 100 feet in length that are not engaged in towing	33 CFR 147.1116	34.6104	120.7294
17 Platform HOGAN	Pacific Operators Offshore, Inc.			34.3377	119.5415
18 Platform HOUCHIN	Pacific Operators Offshore, Inc.			34.3350	119.5521
19 Platform HABITAT	Nuevo Energy Co.			34.2866	119.5881
20 Platform HENRY	Nuevo Energy Co.			34.3333	119.5604
21 Platform HILLHOUSE	Nuevo Energy Co.			34.3313	119.6032
22 Platform A	Nuevo Energy Co.			34.3319	119.6125
23 Platform B	Nuevo Energy Co.			34.3323	119.6215
24 Platform C	Nuevo Energy Co.			34.3329	119.6308
25 Platform HEIDI (removed)	Chevron, U.S.A.			34.3424	119.5186
26 Platform HOPE (removed)	Chevron, U.S.A.			34.3408	119.5308
27 Platform HILDA (removed)	Chevron, U.S.A.			34.3888	119.5950
28 Platform HAZEL (removed)	Chevron, U.S.A.			34.3832	119.5670
29 Platform EMMY	Shell Oil Corp.			33.6613	118.0448
30 Platform ESTHER	Chevron, U.S.A.			33.7247	118.1167
31 Platform EVA	Unocal			33.6623	118.0615
32 Platform WHITE	Thums Tract			33.7526	118.159
33 Platform GRISSOM	Thums Tract			33.7591	118.182
34 Platform BELMONT	Exxon Company, U.S.A.			33.7216	118.125

<b>Ref. Structure</b>	<b>Operator</b>	<b>Regulations</b>	<b>Authority</b>	<b>Latitude</b>	<b>Longitude</b>
35 Platform FREEMAN	Thums Tract			33.7412	118.162
36 Platform CHAFFEE	Thums Tract			33.7397	118.139
37 Platform HOLLY	Mobil, Corp.			34.3913	119.9052



Table 13. Active weather and scientific buoy sites located off California, Oregon, and Washington (coordinates in decimal degrees).

<b>Buoy</b>	<b>Site Name</b>	<b>Agency</b>	<b>Latitude</b>	<b>Longitude</b>
ODAS 46002	Oregon	NOAA	42.5269	130.2603
ODAS 46005	Washington	NOAA	46.0833	131.0000
ODAS 46006	SE Papa	NOAA	40.8425	137.4861
ODAS 46011	Santa Maria, CA	NOAA	34.8808	120.8694
ODAS 46012	Santa Cruz, CA	NOAA	37.3933	122.7181
ODAS 46013	Bodega, CA	NOAA	38.2269	123.3286
ODAS 46014	Point Arena, CA	NOAA	39.2167	123.9658
ODAS 46022	Eel River, CA	NOAA	40.7408	124.5128
ODAS 46023	Point Conception, CA	NOAA	34.7139	120.9667
ODAS 46025	Catalina Ridge, CA	NOAA	33.7467	119.0758
ODAS 46026	San Francisco, CA	NOAA	37.7589	122.8333
ODAS 46027	St Georges, CA	NOAA	41.8517	124.3817
ODAS 46028	Cape San Martin, CA	NOAA	35.7356	121.8864
ODAS 46029	Columbia River Bar	NOAA	46.1167	124.5000
ODAS 46030	Blunts Reef, CA	NOAA	40.4228	124.5253
ODAS 46041	Cape Elizabeth	NOAA	47.4197	124.5269
ODAS 46042	Monterey, CA	NOAA	36.7531	122.4225
ODAS 46045	Long Beach, CA	NOAA	33.8386	118.4467
ODAS 46050	Stonewall Bank	NOAA	44.6211	124.5283
ODAS 46053	Santa Barbara E	NOAA	34.2361	119.8467
ODAS 46054	Santa Barbara W	NOAA	34.2689	120.4483
ODAS 46059	California Coast	NOAA	37.9833	129.9969
MBARI M1		MBARI	36.7475	122.0238
MBARI M2		MBARI	36.6900	122.3950
MBARI M3		MBARI	36.5680	122.9568
MBARI S1		MBARI	36.6670	122.3753
MBARI S2		MBARI	36.4998	122.9335

MBARI = Monterey Bay Aquarium Research Institute  
NOAA = National Oceanic and Atmospheric Administration  
ODAS = Ocean Data Acquisition System

Table 14. Restricted navigation areas located off California, Oregon, and Washington.

<b>Site Name</b>	<b>Agency</b>	<b>Authority</b>	<b>Regulations</b>
Security Zone: San Diego Bay, California.	USCG	33 CFR 165.1102	Area closed; access permission required
Security Zone: San Diego Bay, California	USCG	33 CFR 165.1103	Area closed; access permission required
Security Zone: San Diego Bay, California	USCG	33 CFR 165.1104	Area closed; access permission required
Security Zone: San Diego Bay, California.	USCG	33 CFR 165.1105	Area closed; access permission required
Security Zone: San Diego Bay, California	USCG	33 CFR 165.1106	Area closed; access permission required
San Diego Bay, California -safety zone	USCG	33 CFR 165.1107	Transit allowed with permission, but no anchoring or stopping
San Diego Bay, California.	USCG	33 CFR 165.1108	Mariners transiting within the regulated navigation area shall proceed at a speed that generates no wake from their vessel, and comply with USCG orders during submarine docking/undocking.
San Pedro Bay, California - Los Angeles Pilot Area	USCG	33 CFR 165.1109 (b)(1)	Entry or departure from LA Main Channel via the LA Harbor Entrance only; no stopping or loitering except to disembark a pilot; leave LA Approach Lighted Bell Buoy "LA" to port when entering or departing LA Main Channel
San Pedro Bay, California - Long Beach Pilot Area	USCG	33 CFR 165.1109 (b)(2)	Entry or departure via Long Beach Harbor Entrance only; no stopping or loitering except to disembark a pilot; leave Long Beach Approach Lighted Whistle Buoy "LB" to port when entering or departing Long Beach Channel
San Pedro Bay, California - Regulated Navigation Area	USCG	33 CFR 165.1109 (e)(4)	Transit only area for vessels over 30 meters in length, towing vessels over 8 meters in length, vessels over 100 gross tons carrying passengers for hire while navigating, and dredges and floating plants.
Los Angeles Harbor; San Pedro Bay, CA. - Pier 400 Safety Zone	USCG	33 CFR 165.1110 (a)(1)	Area closed; access permission required
Los Angeles Harbor; San Pedro Bay, CA. - Shallow Water Habitat Extension	USCG	33 CFR 165.1110 (a)(2)	Area closed; access permission required
Security Zone: Wilson Cove, San Clemente Island, California	USCG	33 CFR 165.1111	Area closed; access permission required
San Francisco Bay, California-- Regulated Navigation Area.	USCG	33 CFR 165.1114 (c)(1)(i)	Regulations govern use of traffic lanes
Puget Sound and Adjacent Waters	USCG	33 CFR 165.1301 (c)(3)	Vessels engaged in fishing, including

<b>Site Name</b>	<b>Agency</b>	<b>Authority</b>	<b>Regulations</b>
in Northwestern Washington—Regulated Navigation Area.			gillnet and purse seine fishing, are prohibited in the Prohibited Fishing Area
Bangor Naval Submarine Base, Bangor, WA security zone	USCG	33 CFR 165.1302 (a)	Area closed; access permission required
Bangor Naval Submarine Base, Bangor, WA security zone anchorage Area No. 2	USCG	33 CFR 165.1302 (b)	Area closed; access permission required
Bellingham Bay, Bellingham, WA. safety zone	USCG	33 CFR 165.1304	Area closed; access permission required annually on July fourth from 9:30 p.m. to 11 p.m.
Commencement Bay, Tacoma, WA. safety zone	USCG	33 CFR 165.1305	Area closed; access permission required
Lake Union, Seattle, WA. Safety zone	USCG	33 CFR 165.1306	Area closed; access permission required annually on July fourth from 9:30 p.m. to 11 p.m.
Elliott Bay, Seattle, WA. Safety zone	USCG	33 CFR 165.1307	Area closed; access permission required
Columbia River, Vancouver, WA. safety zone	USCG	33 CFR 165.1308	Area closed; access permission required
USCG = U.S. Coast Guard			

Table 15. Coordinates (decimal degrees) of restricted navigation areas off California, Oregon, and Washington.

Sequence	Latitude	Longitude
1	33 CFR 165.1102	Security Zone: San Diego Bay, California.
2	32.6868	117.1183
3	32.6849	117.1349
4		thence southeasterly along the U.S. Pierhead Line to the south side of Pier 13
1	32.6868	thence northeasterly along the south side of Pier 13 to the shoreline of the Naval Station 117.1183 (return along shore)
1	33 CFR 165.1103	Security Zone: San Diego Bay, California
2	32.6994	117.2382
3	32.6989	117.2361
4	32.7011	117.2346
5	32.7028	117.2335
6	32.7041	117.2339
7	32.7063	117.2349
8	32.7079	117.2357
1	32.7079	117.2360
1	32.6994	117.2382 (return along shore)
1	33 CFR 165.1104	Security Zone: San Diego Bay, California
2	32.6864	117.2325
3	32.6922	117.2335
1	32.6901	117.2385
1	32.6864	117.2325 (return along shore)
1	33 CFR 165.1105	Security Zone: San Diego Bay, California.
2	32.7132	117.1903
3	32.7144	117.1893
4	32.7124	117.1864
5	32.7086	117.1879
6	32.7059	117.1790
1	32.7036	117.1799
1	32.7132	117.1903 (return along shore)
1	33 CFR 165.1106	Security Zone: San Diego Bay, California
2	32.6981	117.2260
3	32.6981	117.2279
4	32.6928	117.2279
4	32.6928	117.2261
1	33 CFR 165.1107	San Diego Bay, California -safety zone
2	32.7270	117.1792
3	32.7267	117.1782
4	32.7223	117.1804 (then along the shoreline to #4)
5	32.7238	117.1846
1	32.7266	117.1832
1	32.7270	117.1792 (return along shore)

<b>Sequence</b>	<b>Latitude</b>	<b>Longitude</b>
33 CFR 165.1108 San Diego Bay, California.		
1	32.6902	117.2394
2	32.6928	117.2329
3	32.6928	117.2270 (then along the shoreline to #4)
4	32.6864	117.2254
5	32.6864	117.2329
1	32.6902	117.2394 (return along shore)
33 CFR 165.1109 (b)(1) San Pedro Bay, California - Los Angeles Pilot Area		
1	33.7083	118.2517
2	33.7117	118.2450
3	33.6934	118.2295
4	33.6872	118.2487
1	33.7083	118.2517
33 CFR 165.1109 (b)(2) San Pedro Bay, California - Long Beach Pilot Area		
1	33.7233	118.1867
2	33.7233	118.1800
3	33.7025	118.1739
4	33.7025	118.1932
1	33.7233	118.1867
33 CFR 165.1109 (e)(4) San Pedro Bay, California - Regulated Navigation Area		
1	33.7117	118.2450 (then eastward along the middle breakwater to #2)
2	33.7233	118.1867
3	33.7181	118.1876
4	33.7181	118.2044 (then southwesterly parallel to the breakwater to #5)
5	33.7083	118.2378
1	33.7117	118.2450
33 CFR 165.1110 (a)(1) Los Angeles Harbor; San Pedro Bay, CA. - Pier 400 Safety Zone		
1	33.7414	118.2381
2	33.7300	118.2331
3	33.7176	118.2366
4	33.7125	118.2513
5	33.7167	118.2583
6	33.7228	118.2615
7	33.7292	118.2586
8	33.7329	118.2457
9	33.7344	118.2407
1	33.7414	118.2381
33 CFR 165.1110 (a)(2) Los Angeles Harbor; San Pedro Bay, CA. - Shallow Water Habitat Extension		
1	33.7089	118.2500
2	33.7138	118.2615
3	33.7131	118.2662
4	33.7069	118.2566
1	33.7089	118.2500

<b>Sequence</b>	<b>Latitude</b>	<b>Longitude</b>
	33 CFR 165.1111	Security Zone: Wilson Cove, San Clemente Island, California
1	33.0236	118.5619
2	33.0364	118.5371
3	32.9779	118.4876
4	32.9650	118.5214
1	33.0236	118.5619 (return along shore)
	33 CFR 165.1114 (c)(1)(i)	San Francisco Bay, California--Regulated Navigation Area.
1	37.7883	122.5061
2	37.8153	122.5281 (then along the shoreline to #3)
3	37.8439	122.4769
4	37.8497	122.4667
5	37.8625	122.4578
6	37.8828	122.4350
7	37.8647	122.4161
8	37.8647	122.4000
9	37.8611	122.3967
10	37.8228	122.3967
11	37.8056	122.3700
12	37.7839	122.3592
13	37.7839	122.3844
1	37.7883	122.5061 (return along shore)
	33 CFR 165.1301 (c)(3)	Puget Sound and Adjacent Waters in Northwestern Washington--Regulated Navigation Area.
1		The Hood Canal Bridge, to include the waters within a one-half nautical mile radius of the center of the main ship channel draw span during the immediate approach and transit of the draw by public vessels of the United States.
	33 CFR 165.1302 (a)	Bangor Naval Submarine Base, Bangor, WA security zone
1	47.7214	122.7456
2	47.7256	122.7444
3	47.7306	122.7444
4	47.7400	122.7394
5	47.7631	122.7228
6	47.7731	122.7117
7	47.7731	122.7056
8	47.7722	122.7033
1	47.7214	122.7456 (return along shore)
	33 CFR 165.1302 (b)	Bangor Naval Submarine Base, Bangor, WA security zone anchorage Area No. 2 - a circle of 1,000 yards diameter centered on the following point
1	47.7739	122.7136
	33 CFR 165.1304	Bellingham Bay, Bellingham, WA. safety zone - a circle with a radius of 1000 yards centered on the following point
1	48.7489	122.4944

<b>Sequence</b>	<b>Latitude</b>	<b>Longitude</b>
	33 CFR 165.1305	Commencement Bay, Tacoma, WA. safety zone
1	47.2928	122.4767
2	47.2850	122.4611
3	47.2783	122.4683
4	47.2861	122.4839
1	47.2928	122.4767
	33 CFR 165.1306	Lake Union, Seattle, WA. safety zone
1	47.6422	122.3428
2	47.6422	122.3300
3	47.6361	122.3292
4	47.6361	122.3400
1	47.6422	122.3428
	33 CFR 165.1307	Elliott Bay, Seattle, WA. safety zone
1	47.6228	122.3683
2	47.6183	122.3625
3	47.6150	122.3681
4	47.6189	122.3742
1	47.6228	122.3683
	33 CFR 165.1308	Columbia River, Vancouver, WA. Safety zone
1	45.6214	122.6728
2	45.6175	122.6756
3	45.6078	122.6431
4	45.6117	122.6431
1	45.6214	122.6728 (return along shore)

Table 16. Danger zones and restricted areas located off California, Oregon, and Washington.

<b>Site Name</b>	<b>Agency</b>	<b>Authority</b>	<b>Regulations</b>
San Diego Bay, California, Naval Amphibious Base; restricted area.	COE	33 CFR 334.860	Closed to fishing
San Diego Harbor, Calif.; restricted area at Bravo Pier, Naval Air Station	COE	33 CFR 334.870 (a)	Closed to fishing
San Diego Harbor, Calif.; U.S. Naval Degaussing Station restricted area	COE	33 CFR 334.870 (b)	Transit allowed; no loitering; no anchoring; no introduction of external magnetic field sources within the area
San Diego Harbor, Calif.; restricted area between Ballast Point and Zuniga Point	COE	33 CFR 334.870 (c)	Transit allowed; no loitering; closed to fishing; no anchoring
San Diego Harbor, Calif.; restricted area at the Naval Supply Center Pier	COE	33 CFR 334.870 (d)	Transit allowed; no loitering; closed to fishing; no anchoring
San Diego Harbor, Calif.; naval restricted area adjacent to Point Loma.	COE	33 CFR 334.880	Transit allowed; no anchoring
Pacific Ocean off Point Loma, Calif.; naval restricted area.	COE	33 CFR 334.890	No anchoring; no dredging, dragging, seining, and other similar operations
Pacific Ocean, U.S. Marine Corps Base, Camp Pendleton, California; restricted area.	COE	33 CFR 334.900	No anchoring; closed to fishing; transit allowed; no loitering
Pacific Ocean, Offshore of Camp Pendleton, California; Fallbrook restricted area.	COE	33 CFR 334.905	No anchoring; closed to fishing; transit allowed; no loitering
Pacific Ocean, Camp Pendleton Boat Basin, U.S. Marine Corps Base, Camp Pendleton, Calif.; restricted area.	COE	33 CFR 334.910	No access without permission
Pacific Ocean off the east coast of San Clemente Island, Calif.; naval restricted area.	COE	33 CFR 334.920	Closed to dredging, dragging, seining or other fishing operations
Pacific Ocean at San Clemente Island, Calif.; naval restricted area.	COE	33 CFR 334.921	No anchorage
Anaheim Bay Harbor, Calif.; Naval Weapons Station, Seal Beach.	COE	33 CFR 334.930	Transit only; recreational craft and any activity involving persons in the water are specifically prohibited; smoking; open flames and barbecues in boats are prohibited during the transit
Federal Correctional Institution, Terminal Island, San Pedro Bay, California; restricted	COE	33 CFR 334.938	Access prohibited



<b>Site Name</b>	<b>Agency</b>	<b>Authority</b>	<b>Regulations</b>
area.			
Pacific Ocean in vicinity of San Pedro, Calif.; practice firing range for United States Army Reserve, National Guard, and Coast Guard units.	COE	33 CFR 334.940	Area closed only when in use
Pacific Ocean at San Clemente Island, California; Navy shore bombardment areas.	COE	33 CFR 334.950	Area closed only when in use; no anchoring
Pacific Ocean, San Clemente Island, Calif.; naval danger zone off West Cove.	COE	33 CFR 334.960	Area closed only when in use
Pacific Ocean, San Clemente Island, California, naval danger zone off the northwest shore.	COE	33 CFR 334.961	Area closed only when in use
Pacific Ocean; around San Nicolas Island, Calif., naval restricted area - ALPHA section	COE	33 CFR 334.980 (b)(1)	Seaplanes prohibited; dredging, dragging, seining, anchoring and other fishing operations are prohibited
Pacific Ocean; around San Nicolas Island, Calif., naval restricted area - BRAVO section	COE	33 CFR 334.980 (b)(2)	Seaplanes prohibited; area closed only when in use
Pacific Ocean; around San Nicolas Island, Calif., naval restricted area - CHARLIE section	COE	33 CFR 334.980 (b)(3)	Seaplanes prohibited; area closed only when in use
Long Beach Harbor, Calif.; naval restricted area.	COE	33 CFR 334.990	Area closed
San Francisco Bay in vicinity of Hunters Point; naval restricted area	COE	33 CFR 334.1010	Area closed
San Francisco Bay and Oakland Inner Harbor; restricted area #1 in vicinity of Naval Air Station, Alameda	COE	33 CFR 334.1020 (a)(1)	Area closed
San Francisco Bay and Oakland Inner Harbor; restricted area #2 in vicinity of Naval Air Station, Alameda	COE	33 CFR 334.1020 (a)(2)	Area closed
Oakland Inner Harbor adjacent to Alameda Facility, Naval Supply Center, Oakland; restricted area.	COE	33 CFR 334.1030	Area closed
Oakland Harbor in vicinity of Naval Supply Center, Oakland; restricted area and navigation.	COE	33 CFR 334.1040	Area closed

<b>Site Name</b>	<b>Agency</b>	<b>Authority</b>	<b>Regulations</b>
Oakland Outer Harbor adjacent to the Military Ocean Terminal, Bay Area, Pier No. 8 (Port of Oakland Berth No. 10); restricted area.	COE	33 CFR 334.1050	Area closed
Oakland Outer Harbor adjacent to the Oakland Army Base; restricted area.	COE	33 CFR 334.1060	Area closed
San Francisco Bay between Treasure Island and Yerba Buena Island; naval restricted area.	COE	33 CFR 334.1070	Area closed
San Francisco Bay adjacent to northeast corner of Treasure Island; naval restricted area.	COE	33 CFR 334.1080	Area closed
San Francisco Bay in vicinity of the NSC Fuel Department, Point Molate restricted area.	COE	33 CFR 334.1090	Area closed
San Pablo Bay, Carquinez Strait, and Mare Island Strait in vicinity of U.S. Naval Shipyard, Mare Island; restricted area.	COE	33 CFR 334.1100	Area closed
Suisun Bay at Naval Weapons Station, Concord; restricted area.	COE	33 CFR 334.1110	Area closed
Pacific Ocean in the vicinity of Point Mugu, Calif.; naval small arms firing range.	COE	33 CFR 334.1120	Area closed only when in use
Pacific Ocean Naval Air Weapons Station, Point Mugu, Small Arms Range, Ventura County, California; danger zone.	COE	33 CFR 334.1125	Area closed only when in use
Pacific Ocean, Western Space and Missile Center (WSMC), Vandenberg AFB, Calif.; danger zones - Zone 1	COE	33 CFR 334.1130 (a)(1)(i)	Area closed only when in use
Pacific Ocean, Western Space and Missile Center (WSMC), Vandenberg AFB, Calif.; danger zones - Zone 2	COE	33 CFR 334.1130 (a)(1)(ii)	Area closed only when in use
Pacific Ocean, Western Space and Missile Center (WSMC), Vandenberg AFB, Calif.; danger zones - Zone 3	COE	33 CFR 334.1130 (a)(1)(iii)	Area closed only when in use
Pacific Ocean, Western Space and Missile Center (WSMC), Vandenberg AFB, Calif.; danger zones - Zone 4	COE	33 CFR 334.1130 (a)(1)(iv)	No stopping or loitering; area closed only when in use

<b>Site Name</b>	<b>Agency</b>	<b>Authority</b>	<b>Regulations</b>
Pacific Ocean, Western Space and Missile Center (WSMC), Vandenberg AFB, Calif.; danger zones - Zone 5	COE	33 CFR 334.1130 (a)(1)(v)	Area closed only when in use
Pacific Ocean, Western Space and Missile Center (WSMC), Vandenberg AFB, Calif.; danger zones - Zone 6	COE	33 CFR 334.1130 (a)(1)(vi)	Area closed only when in use
Pacific Ocean, Western Space and Missile Center (WSMC), Vandenberg AFB, Calif.; danger zones - Zone 7	COE	33 CFR 334.1130 (a)(1)(vii)	Area closed only when in use
Pacific Ocean, Western Space and Missile Center (WSMC), Vandenberg AFB, Calif.; danger zones - Zone 8	COE	33 CFR 334.1130 (a)(1)(viii)	Area closed only when in use
Pacific Ocean, Western Space and Missile Center (WSMC), Vandenberg AFB, Calif.; danger zones - Zone 9	COE	33 CFR 334.1130 (a)(1)(ix)	Area closed only when in use
Pacific Ocean at San Miguel Island, Calif.; naval danger zone.	COE	33 CFR 334.1140	Area closed only when in use
Monterey Bay, Calif. : Firing range, Fort Ord, Calif - short range	COE	33 CFR 334.1150 (a)(1)(ii)	Area closed between dawn and midnight from Monday through Friday and between dawn and dusk on Saturday and Sunday
Monterey Bay, Calif. : Firing range, Fort Ord, Calif - long range	COE	33 CFR 334.1150 (a)(1)(ii)	Area closed only when in use
Monterey Bay, Calif. : Navy mining operations area	COE	33 CFR 334.1150 (b)(1)	Area closed only when in use
San Pablo Bay, Calif.; target practice area, Mare Island Naval Shipyard, Vallejo.	COE	33 CFR 334.1160	Area closed only when in use
San Pablo Bay, Calif.; gunnery range, Naval Inshore Operations Training Center, Mare Island, Vallejo.	COE	33 CFR 334.1170	Area closed only when in use
Strait of Juan de Fuca, Washington; air-to-surface weapon range, restricted area.	COE	33 CFR 334.1180	Area closed only when in use
Hood Canal, Wash.; naval non-explosive torpedo testing area	COE	33 CFR 334.1190 (a)	Area closed only when in use
Dabob Bay, Wash.; naval non-explosive torpedo testing area	COE	33 CFR 334.1190 (b)	Area closed to trawling or dragging; no anchoring in water deeper than 10 fathoms; no excess noise generated during testing periods

<b>Site Name</b>	<b>Agency</b>	<b>Authority</b>	<b>Regulations</b>
Strait of Juan de Fuca, eastern end; off the westerly shore of Whidbey Island; naval restricted areas: Area No. 1	COE	33 CFR 334.1200 (a)	Access at own risk
Strait of Juan de Fuca, eastern end; off the westerly shore of Whidbey Island; naval restricted areas: (a) Area No. 2	COE	33 CFR 334.1200 (b)	Access at own risk
Admiralty Inlet, entrance; naval restricted area.	COE	33 CFR 334.1210	Use of any equipment such as anchors, fishing gear, grapnels, etc., which may foul underwater installations within the restricted area, is prohibited. Dumping of any non-buoyant objects in this area is prohibited
Hood Canal, Bangor; naval restricted areas - Area No. 1	COE	33 CFR 334.1220 (a)(1)	Area closed
Hood Canal, Bangor; naval restricted areas - Area No. 2 (a circle of 1,000 yards diameter centered on the following point)	COE	33 CFR 334.1220 (a)(2)	Area closed only when in use; use of any equipment such as anchors, grapnels, etc., which may foul underwater installations within the restricted area, is prohibited at all times
Port Orchard; naval restricted area.	COE	33 CFR 334.1230	No vessel shall anchor or tow a drag of any kind in this area
Sinclair Inlet; naval restricted areas - Area No. 1 (all waters of Sinclair Inlet westerly of a line between the following points)	COE	33 CFR 334.1240 (a)(1)	Area closed to vessels of more than 100 gross tons
Sinclair Inlet; naval restricted areas - Area No. 2 (all waters of Sinclair Inlet north and west of a line between the following points)	COE	33 CFR 334.1240 (a)(2)	Area closed
Carr Inlet, naval restricted areas.	COE	33 CFR 334.1250	Closed when in use; no use of explosives at any time; no approach within 100 yards of hydrophone buoys; no anchoring or towing a drag of any kind within 1,000 yards of the buoy testing area
Dabob Bay, Whitney Point, Naval Restricted Area.	COE	33 CFR 334.1260	No anchoring; no towing a drag of any kind
Port Townsend, Indian Island, Walan Point, naval restricted area.	COE	33 CFR 334.1270	Closed when in use
COE = US Army Corps of Engineers			

Table 17. Coordinates (decimal degrees) of danger zones and restricted areas off California, Oregon, and Washington.

Sequence	Latitude	Longitude
	33 CFR 334.860	San Diego Bay, Calif., Naval Amphibious Base; restricted area.
1	32.6758	117.1673
2	32.6763	117.1650
3	32.6794	117.1623
4	32.6833	117.1568
5	32.6722	117.1435
6	32.6667	117.1500
7	32.6550	117.1458
8	32.6544	117.1468
	33 CFR 334.870(a)	San Diego Harbor, Calif.; restricted area
1	32.6976	117.2261
2	32.6976	117.2296
3	32.6954	117.2306
4	32.6933	117.2300
5	32.6933	117.2264
	33 CFR 334.870(b)	U.S. Naval Degaussing Station restricted area (rectangular coordinates refer to U.S. Coast and Geodetic Survey station "Old Town" as their origin)
1	S. 18,738.80	W. 16,299.50
2	S. 18,817.60	W. 15,791.30
3	S. 19,376.09	W. 14,270.73
4	S. 20,023.15	W. 14,462.94
5	S. 21,080.24	W. 14,333.14
6	S. 22,074.40	W. 16,371.48
	33 CFR 334.870(c)	Restricted area between Ballast Point and Zuniga Point
1	32.6881	117.2328
2	32.6886	117.2268
3	32.6836	117.2261
4	32.6831	117.2319
5	32.6842	117.2322
1	32.6881	117.2328
	33 CFR 334.870(d)	Restricted area at the Naval Supply Center Pier
1	32.7139	117.1736
2	32.7139	117.1772
3	32.7150	117.1772
4	32.7150	117.1736
	33 CFR 334.880	San Diego Harbor, Calif.; naval restricted area adjacent to Point Loma. San Diego Bay southerly of Ballast Point, exclusive of the southwesterly portion of the restricted area described in Sec. 334.612(b) westerly of the entrance channel,
1		
2		bounded on the west by the shoreline at Point Loma,
3		bounded on the east by the entrance channel west project line
4		bounded on the south by latitude 32 deg.40'.

<b>Sequence</b>	<b>Latitude</b>	<b>Longitude</b>
	33 CFR 334.890	Pacific Ocean off Point Loma, Calif.; naval restricted area
1	32.6650	117.2217
2	32.5753	117.1614
3	32.5753	117.2778
4	32.6650	117.2778
1	32.6650	117.2217
	33 CFR 334.900	Pacific Ocean, U.S. Marine Corps Base, Camp Pendleton, Calif.; restricted area
1	33.2194	117.4053
2	33.2133	117.4156
3	33.2089	117.4122
4	33.2131	117.4047
5	33.2161	117.4025
1	33.2194	117.4053
	33 CFR 334.905	Pacific Ocean, offshore of Camp Pendleton, California; Fallbrook restricted area (circular, 9,000 foot radius)
1	33.3100	117.5333
	33 CFR 334.910	Pacific Ocean, Camp Pendleton Boat Basin, U.S. Marine Corps Base, Camp Pendleton, Calif.; restricted area (water north of a line described by the following points)
1	33.2061	117.4019
2	33.2081	117.3986
	33 CFR 334.920	Pacific Ocean off the east coast of San Clemente Island, Calif.; naval restricted area
1	32.9950	118.5483
2	33.0050	118.5183
3	32.9767	118.5000
4	32.9650	118.5217
	33 CFR 334.921	Pacific Ocean at San Clemente Island, Calif.; naval restricted area
1	33.0144	118.6050
2	32.9917	118.6250
3	32.9889	118.6439
4	32.9625	118.6439
5	32.9750	118.6111
6	33.0111	118.5908
	33 CFR 334.930	Anaheim Bay Harbor, Calif.; Naval Weapons Station, Seal Beach restricted area
1		Anaheim Bay Harbor between the east and west jetties at the United States Naval Weapons Station, Seal Beach, California, and the contiguous tidal channel and basin as far east as the Anaheim Bay bridge
	33 CFR 334.938	Federal Correctional Institution, Terminal Island, San Pedro Bay, California; restricted area
1	33.7293	118.2672
2	33.7269	118.2661
3	33.7243	118.2651

<b>Sequence</b>	<b>Latitude</b>	<b>Longitude</b>
	33 CFR 334.940	Pacific Ocean in vicinity of San Pedro, Calif.; practice firing range for U.S. Army Reserve, National Guard, and Coast Guard units
1	33.7417	118.4100
2	33.7283	118.4233
3	33.7750	118.4517
4	33.7483	118.4117
	33 CFR 334.950	Pacific Ocean at San Clemente Island, California; Navy shore bombardment areas
1	32.8452	118.4880
2	32.8182	118.5140
3	32.7710	118.4257
4	32.7980	118.3253
5	32.8300	118.3092
6	32.9158	118.4177
7	32.8923	118.4418
	33 CFR 334.960	Pacific Ocean, San Clemente Island, Calif.; naval danger zone off West Cove
1	33.0111	118.5958
2	32.9611	118.5736
3	32.9528	118.5944
4	33.0028	118.6167
5	33.0111	118.5958
	33 CFR 334.961	Pacific Ocean, San Clemente Island, California, naval danger zone off the northwest shore
1	33.0272	118.6056
2	33.0197	118.6236
3	33.0031	118.6167
4	33.0014	118.6481
5	33.0486	118.6514
6	33.0736	118.6281
7	33.0340	118.5981
	33 CFR 334.980 (b)(1)	Pacific Ocean; around San Nicolas Island, Calif., naval restricted area - ALPHA section
1	33.3194	119.6194
2	33.3361	119.5194
3	33.3050	119.4414
4	33.2619	119.4778
5	33.2750	119.5111
6	33.3194	119.6194

<b>Sequence</b>	<b>Latitude</b>	<b>Longitude</b>
	33 CFR 334.980(b)(2)	Pacific Ocean; around San Nicolas Island, Calif., naval restricted area - BRAVO section
1	33.2750	119.5111
2	33.2194	119.4944
3	33.1694	119.4944
4	33.1694	119.5194
5	33.2000	119.5917
6	33.2389	119.6278
7	33.2778	119.6361
8	33.3194	119.6194
1	33.2750	119.5111
	33 CFR 334.980(b)(3)	Pacific Ocean; around San Nicolas Island, Calif., naval restricted area - CHARLIE section
1	33.2194	119.4944
2	33.1694	119.4944
3	33.1694	119.4056
4	33.2306	119.3639
5	33.2944	119.4139
6	33.3050	119.4414
7	33.2619	119.4778
1	33 CFR 334.990	Long Beach Harbor, Calif.; naval restricted area. All the waters between the Navy mole and Terminal Island to the westward of longitude 118 deg.13'10"
1	33 CFR 334.1010	San Francisco Bay in vicinity of Hunters Point; naval restricted area Beginning at a point on the northerly shore of the Shipyard bearing 292 deg.40', 950 yards, from Hunters Point Light; thence 35 deg.27', 730 yards to the U.S. Pierhead Line; thence 142 deg.55', 1,300 yards, along the Pierhead Line; thence 180 deg., 2,450 yards, to the San Francisco-San Mateo County Line; thence 270 deg., 430 yards, along the County Line; thence 305 deg.27', 1,313 yards, to and along the southwesterly side of South Basin; and thence due north, 413 yards, to the southwesterly shore of the Shipyard
	33 CFR 334.1020(a)(1)	San Francisco Bay restricted areas in vicinity of Naval Air Station, Alameda
1	37.7992	122.3286
2	37.7981	122.3325
3	37.7961	122.3333
4	37.7947	122.3311
5	37.7803	122.3311
6	37.7803	122.3244
7	37.7794	122.3225
8	37.7792	122.3181
9	37.7772	122.3164
10	37.7717	122.3181
11	37.7667	122.3078
12	37.7667	122.3061
13	37.7675	122.3061
14	37.7667	122.2911
15	37.7675	122.2906



<b>Sequence</b>	<b>Latitude</b>	<b>Longitude</b>
1	33 CFR 334.1020(a)(2)	Oakland Inner Harbor restricted areas in vicinity of Naval Air Station, Alameda The waters of the entrance channel to Oakland Inner Harbor (San Antonio Estuary) between the westerly end of the rock wall on the south side of the channel and the easterly boundary of the Naval Air Station
1	33 CFR 334.1030	Oakland Inner Harbor adjacent to Alameda Facility, Naval Supply Center, Oakland; restricted area The area within 100 feet of the Alameda Facility wharf
1	33 CFR 334.1040	Oakland Harbor in vicinity of Naval Supply Center, Oakland; restricted area and navigation Beginning at a point on the north shore located at about latitude 37 deg.48'26", 122 deg.19'34"; thence 225 deg.12', 290 yards; and thence 173 deg.10', 620 yards to a point on the south shore at about latitude 37 deg.48'02", longitude 122 deg.19'39".
1	33 CFR 334.1050	Oakland Outer Harbor adjacent to the Military Ocean Terminal, Bay Area, Pier No. 8 (Port of Oakland Berth No. 10); restricted area The area. Within 100 feet of the pier
1	33 CFR 334.1060	Oakland Outer Harbor adjacent to the Oakland Army Base; restricted area The area within 100 feet of the wharves, piers or shore
1	33 CFR 334.1070	San Francisco Bay between Treasure Island and Yerba Buena Island; naval restricted area All the water of the cove bounded by the south shore of Treasure Island, the north shore of Yerba Buena Island, and the connecting causeway, west of a line extending from the southeast corner of the most southerly of the four finger piers along the east side of Treasure Island, at about latitude 37 deg.49'11", longitude 122 deg.21'40", approximately 153 deg.20' to the northeasterly point of Yerba Buena Island, at about latitude 37 deg.48'55", longitude 122 deg.21'30"
1	33 CFR 334.1080	San Francisco Bay adjacent to northeast corner of Treasure Island; naval restricted area Beginning at the intersection of Pier 21 and the bulkhead line, thence northwesterly along the bulkhead to the northernmost point of Treasure Island; thence 288 deg. true, 290 yards; thence 26 deg. true, 475 yards; thence 115 deg. 30' true, 520 yards; thence 152 deg. true, 500 yards to Pier 21; thence along the pier to the point of beginning
1	33 CFR 334.1090	San Francisco Bay in vicinity of the NSC Fuel Department, Point Molate restricted area Bounded by the easterly shore of upper San Francisco Bay and the following lines: Beginning at a point on shore bearing 17 deg. 800 yards, from "Tree" at Molate Point thence 270 deg., 870 yards; thence 189 deg. 1,100 yards; and thence 123 deg. to the shore

<b>Sequence</b>	<b>Latitude</b>	<b>Longitude</b>
1	33 CFR 334.1100	San Pablo Bay, Carquinez Strait, and Mare Island Strait in vicinity of U.S. Naval Shipyard, Mare Island; restricted area The waters of San Pablo Bay, Carquinez Strait, and Mare Island Strait, within 100 yards of the shore of that part of the Navy Yard, Mare Island, south of the causeway between the City of Vallejo and Mare Island and extending continuously therefrom southeasterly, southwesterly, and northwesterly around the Navy Yard to its northwesterly limit on the waters of San Pablo Bay, and the waters within 50 yards of any part of the berthing piers at the Navy Yard
1	33 CFR 334.1110	Suisun Bay at Naval Weapons Station, Concord; restricted area Beginning at a point on the shore and on the easterly side of the mouth of a small slough (known as Hastings Slough) bearing 189 deg., 2,412 yards from Tripson at Preston Point on Roe Island; thence 340 deg.30', 400 yards, to the shore line of the westerly of the two Seal Islands; thence 60 deg.30', 940 yards; thence 75 deg., 1,650 yards; thence 102 deg., 1,850 yards; thence 99 deg., 1,880 yards; thence 180 deg., 435 yards, to the shore line; thence following the high water shore line in a general westerly direction to the point of beginning
1 2 3 1	33 CFR 334.1120  34.0922 34.0728 34.0836 34.0922	Pacific Ocean in the vicinity of Point Mugu, Calif.; naval small arms firing range 119.0658 119.0986 119.1047 119.0658
1 2 3 4 5 6	33 CFR 334.1125  34.0967 34.0556 34.0531 34.0950 34.0947 34.0958	Pacific Ocean Naval Air Weapons Station, Point Mugu, Small Arms Range, Ventura County, California; danger zone 119.1175 119.1378 119.1275 119.1164 119.1142 119.1144
1 2 3 4 5	33 CFR 334.1130(a)(2)(i)  34.9022 34.9022 34.8800 34.8333 34.8333	Pacific Ocean, Western Space and Missile Center (WSMC), Vandenberg AFB, Calif.; danger zones - Zone 1 120.6708 120.7333 120.7333 120.6750 120.6083
1 2 3 4	33 CFR 334.1130(a)(2)(ii)  34.8333 34.8333 34.7578 34.7578	Pacific Ocean, Western Space and Missile Center (WSMC), Vandenberg AFB, Calif.; danger zones - Zone 2 120.6083 120.6750 120.7014 120.6375

<b>Sequence</b>	<b>Latitude</b>	<b>Longitude</b>
	33 CFR 334.1130(a)(2)(iii)	Pacific Ocean, Western Space and Missile Center (WSMC), Vandenberg AFB, Calif.; danger zones - Zone 3
1	34.7578	120.6375
2	34.7578	120.7014
3	34.7472	120.7042
4	34.6972	120.6700
5	34.6972	120.6056
	33 CFR 334.1130(a)(2)(iv)	Pacific Ocean, Western Space and Missile Center (WSMC), Vandenberg AFB, Calif.; danger zones - Zone 4
1	34.6972	120.6056
2	34.6972	120.6700
3	34.5867	120.7125
4	34.5756	120.7042
5	34.5756	120.6508
	33 CFR 334.1130(a)(2)(v)	Pacific Ocean, Western Space and Missile Center (WSMC), Vandenberg AFB, Calif.; danger zones - Zone 5
1	34.5756	120.6508
2	34.5756	120.7042
3	34.5500	120.6847
4	34.5111	120.6247
5	34.5542	120.6247
	33 CFR 334.1130(a)(2)(vi)	Pacific Ocean, Western Space and Missile Center (WSMC), Vandenberg AFB, Calif.; danger zones - Zone 6
1	34.5542	120.6247
2	34.5111	120.6247
3	34.5111	120.5028
	33 CFR 334.1130(a)(2)(vii)	Pacific Ocean, Western Space and Missile Center (WSMC), Vandenberg AFB, Calif.; danger zones - Zone 7
1	34.5111	120.5028
2	34.5111	120.6247
3	34.4489	120.5517
4	34.4489	120.4694
	33 CFR 334.1130(a)(2)(viii)	Pacific Ocean, Western Space and Missile Center (WSMC), Vandenberg AFB, Calif.; danger zones - Zone 8
1	34.4489	120.4694
2	34.4489	120.5517
3	34.4050	120.5000
4	34.3928	120.4514
5	34.4489	120.4694
	33 CFR 334.1130 (a)(2)(ix)	Pacific Ocean, Western Space and Missile Center (WSMC), Vandenberg AFB, Calif.; danger zones - Zone 9
1	34.4489	120.4694
2	34.3928	120.4514
3	34.4058	120.4111
4	34.4556	120.4111

Sequence	Latitude	Longitude
1	33 CFR 334.1140 34.0256	Pacific Ocean at San Miguel Island, Calif.; naval danger zone 120.3881
2	33.9800	120.3881
3	33.9800	120.2500
4	34.0472	120.2500
5	34.0958	120.2903
6	34.1167	120.3347
7	34.1550	120.3881
8	34.0525	120.3881
	33 CFR 334.1150(a)(1)(ii)	Monterey Bay, Calif. : (a) Firing range, Fort Ord, Calif - short range
1	36.6297	121.8411
2	36.6550	121.8819
3	36.7244	121.8492
4	36.6992	121.8083
	33 CFR 334.1150(a)(1)(ii)	Monterey Bay, Calif. : (a) Firing range, Fort Ord, Calif - long range
1	36.6550	121.8819
2	36.6700	121.9067
3	36.7394	121.8739
4	36.7244	121.8492
1	33 CFR 334.1150(b)(1)	Navy mining operations area Shoreward of a line beginning at the stack at about latitude 36 deg.58'06", longitude 121 deg.54'06"; thence 230 deg. true, 6.0 miles; thence 140 deg. true, 7.5 miles; thence 50 deg. true to the shore.
	33 CFR 334.1160	San Pablo Bay, Calif.; target practice area, Mare Island Naval Shipyard, Vallejo.
1		A sector in San Pablo Bay adjacent to the westerly shore of Mare Island with a radius of 4,700 yards, centered at a point bearing 316 deg. true, 3,605 yards, from Mare Island Strait Light 1, with limiting true bearings from that center of 266 deg.30' and 222 deg.
	33 CFR 334.1170	San Pablo Bay, Calif.; gunnery range, Naval Inshore Operations Training Center, Mare Island, Vallejo
1	38.0356	122.4214
2	38.0392	122.3819
3	38.0967	122.3261
4	38.1294	122.3897
	33 CFR 334.1180	Strait of Juan de Fuca, Wash.; air-to-surface weapon range, restricted area (a circular area immediately west of Smith Island with a radius of 1.25 nautical miles having its center at the following point)
1	48.3197	122.9033
	33 CFR 334.1190 (a)	Hood Canal, Wash.; naval non-explosive torpedo testing area
1		All waters of Hood Canal between latitude 47 deg.46'00" and latitude 47 deg.42'00", exclusive of navigation lanes one-fourth nautical mile wide along the west shore and along the east shore south from the town of Bangor (latitude 47 deg.43'28").

Sequence	Latitude	Longitude
1	33 CFR 334.1190 (b) 47.6575	Dabob Bay, Wash.; naval non-explosive torpedo testing area 122.8728
2	47.6719	122.8361
3		thence northeasterly to a point on the mean high water line at Takutsko Pt.;
4		thence northerly along the mean high water line to latitude 47 deg.48'00"
5		thence west on latitude 47 deg.48'00" to the mean high water line on the Bolton Peninsula;
6		thence southwesterly along the mean high water line of the Bolton Peninsula to a point on longitude 122 deg.51'06";
7		thence south on longitude 122 deg.51'06" to the mean high water line at Whitney Pt.;
8		thence along the mean water line to a point on longitude 122 deg.51'15";
9		thence southwesterly to the point of beginning.
1	33 CFR 334.1200 (a) 48.3492	Strait of Juan de Fuca, eastern end; off the westerly shore of Whidbey Island; naval restricted areas: Area No. 1 122.6775
2	48.3444	122.7164
3	48.3553	122.7172
4	48.3536	122.6739
1	33 CFR 334.1200 (b) 48.3647	Strait of Juan de Fuca, eastern end; off the westerly shore of Whidbey Island; naval restricted areas: (a) Area No. 2 122.6667
2	48.3867	122.6881
3	48.3914	122.6728
4	48.3725	122.6639
1	33 CFR 334.1210 48.2500	Admiralty Inlet, entrance; naval restricted area Beginning at Point Wilson Light
2		thence southwesterly along the coast line to latitude 48 deg.07' N
3		123.0000
4		thence due east to Whidbey Island
5		thence southerly along the coast line to latitude 48 deg.12.5' N.
1	33 CFR 334.1220 (a)(1) 47.7244	Hood Canal, Bangor; naval restricted areas - Area No. 1 on the east shore of Hood Canal at latitude 47 deg.43'28" N 122.7444
2	47.7244	122.7444
3	47.7306	122.7444
4	47.7400	122.7394
5	47.7631	122.7228
6	47.7731	122.7117
7	47.7731	122.7056
8		thence 125 deg. true to the high tide line;

Sequence	Latitude	Longitude
1	33 CFR 334.1220 (a)(2) 47.7739	Hood Canal, Bangor; naval restricted areas - Area No. 2(a circle of 1,000 yards diameter centered on the following point) 122.7136
1	33 CFR 334.1230 (a) 47.7003	Port Orchard; naval restricted area 122.6150
2		thence 90 deg., approximately 190 yards, to a point 350 yards from stack
3		thence 165 deg., 6,000 yards, to a point bearing 179 deg., 1,280 yards, from Battle Point Light
4		thence westerly to the shoreline at latitude 47 deg.39'08" (approximate location of the Brownsville Pier)
1	33 CFR 334.1240 (a) (1) 47.5633	Sinclair Inlet; naval restricted areas - Area No. 1 (all waters of Sinclair Inlet westerly of a line between the following points) 122.6231
2	47.5478	122.6161
1	33 CFR 334.1240 (a) (2) 47.5619	Sinclair Inlet; naval restricted areas - Area No. 2 (all waters of Sinclair Inlet north and west of a line between the following points) 122.6253
2	47.5608	122.6242
3	47.5564	122.6292
4	47.5553	122.6367
5	47.5528	122.6386
6	47.5519	122.6414
7	47.5519	122.6494
8	47.5511	122.6519
9	47.5511	122.6614
1	33 CFR 334.1250	Carr Inlet, naval restricted areas bounded on the southeast by a line running from Gibson Point on Fox Island to Hyde Point on McNeil Island
2		on the northwest by a line running from Green Point (at latitude 47 deg.16'54" N, longitude 122 deg.41'33" W) to Penrose Point
3		plus that portion of Pitt Passage extending from Carr Inlet to Pitt Island
4		and that portion of Hale Passage extending from Carr Inlet southeasterly to a line drawn perpendicular to the channel 500 yards northwesterly of the Fox Island Bridge
1	33 CFR 334.1260	Dabob Bay, Whitney Point; naval restricted area Beginning at the high water line along the westerly shore of Dabob Bay, 100 yards northerly of the Naval control building located at approximately N. Latitude 47 deg.45'36" and W. longitude 122 deg.51'00"
2		thence S. 89 deg.59' E. 2000 yards
3		thence to S. 00 deg. 01' W. 200 yards
4		thence N. 89 deg.59' W. approximately 2000 yards to the high water line 100 yards southerly of the control building.

<b>Sequence</b>	<b>Latitude</b>	<b>Longitude</b>
	33 CFR 334.1270	Port Townsend, Indian Island, Walan Point; naval restricted area
1	48.0781	122.7406
2	48.0794	122.7481
3	48.0719	122.7514
4	48.0708	122.7467
5	48.0717	122.7467

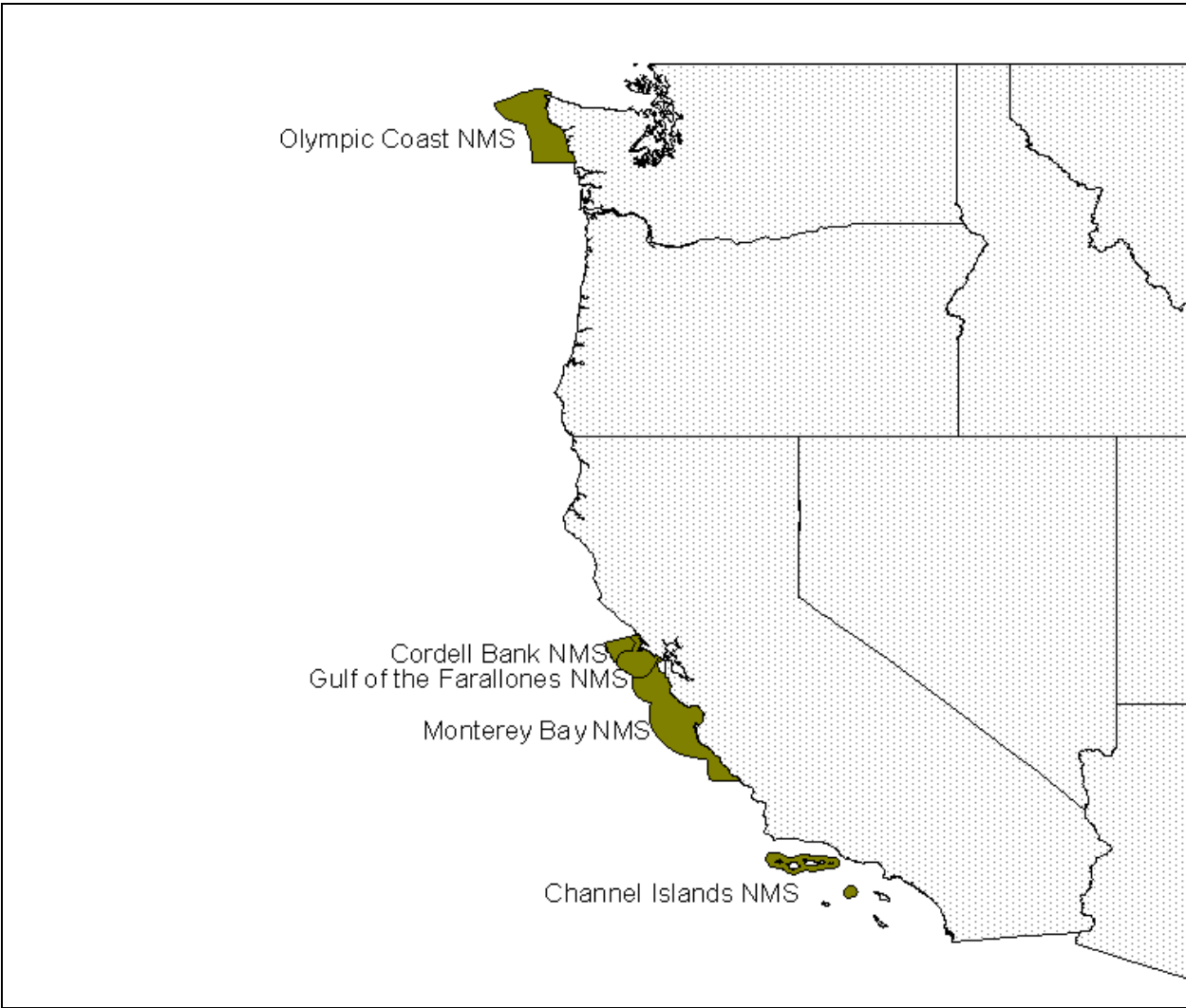


Figure 1. National Marine Sanctuaries off the coasts of California, Oregon, and Washington.



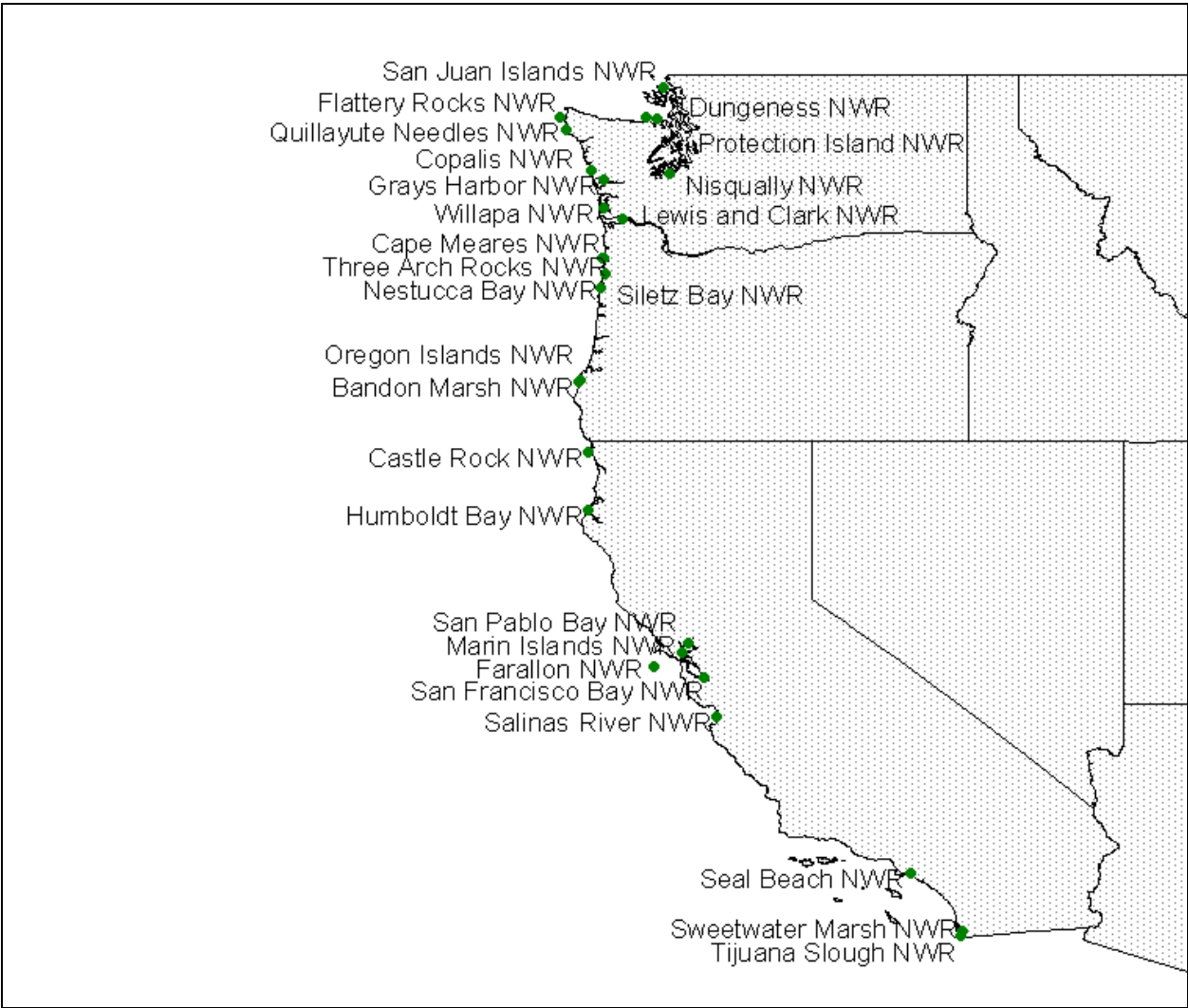


Figure 2. National Wildlife Refuges of coastal California, Oregon, and Washington.

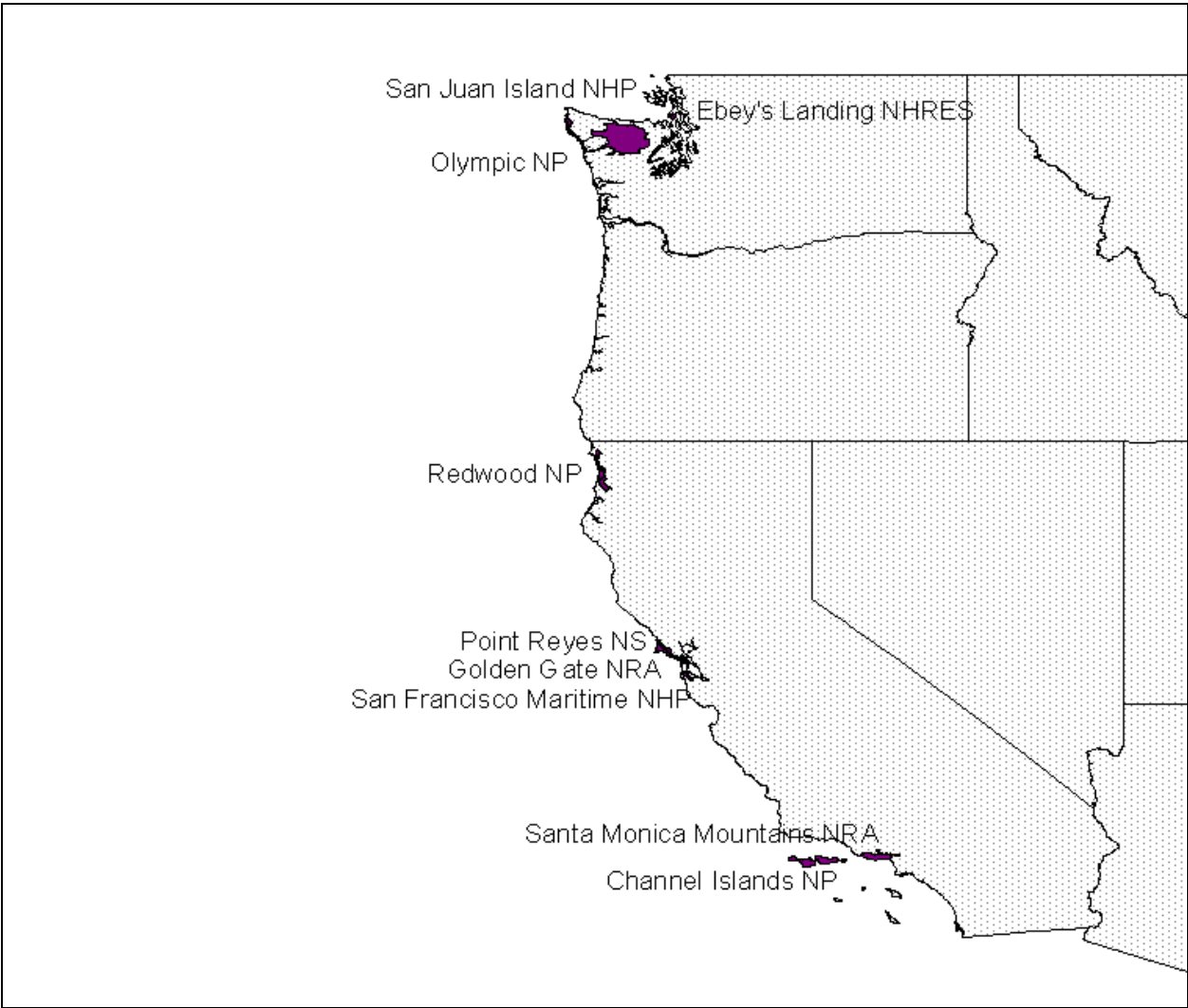


Figure 3. National Parks and monuments of coastal California, Oregon, and Washington.

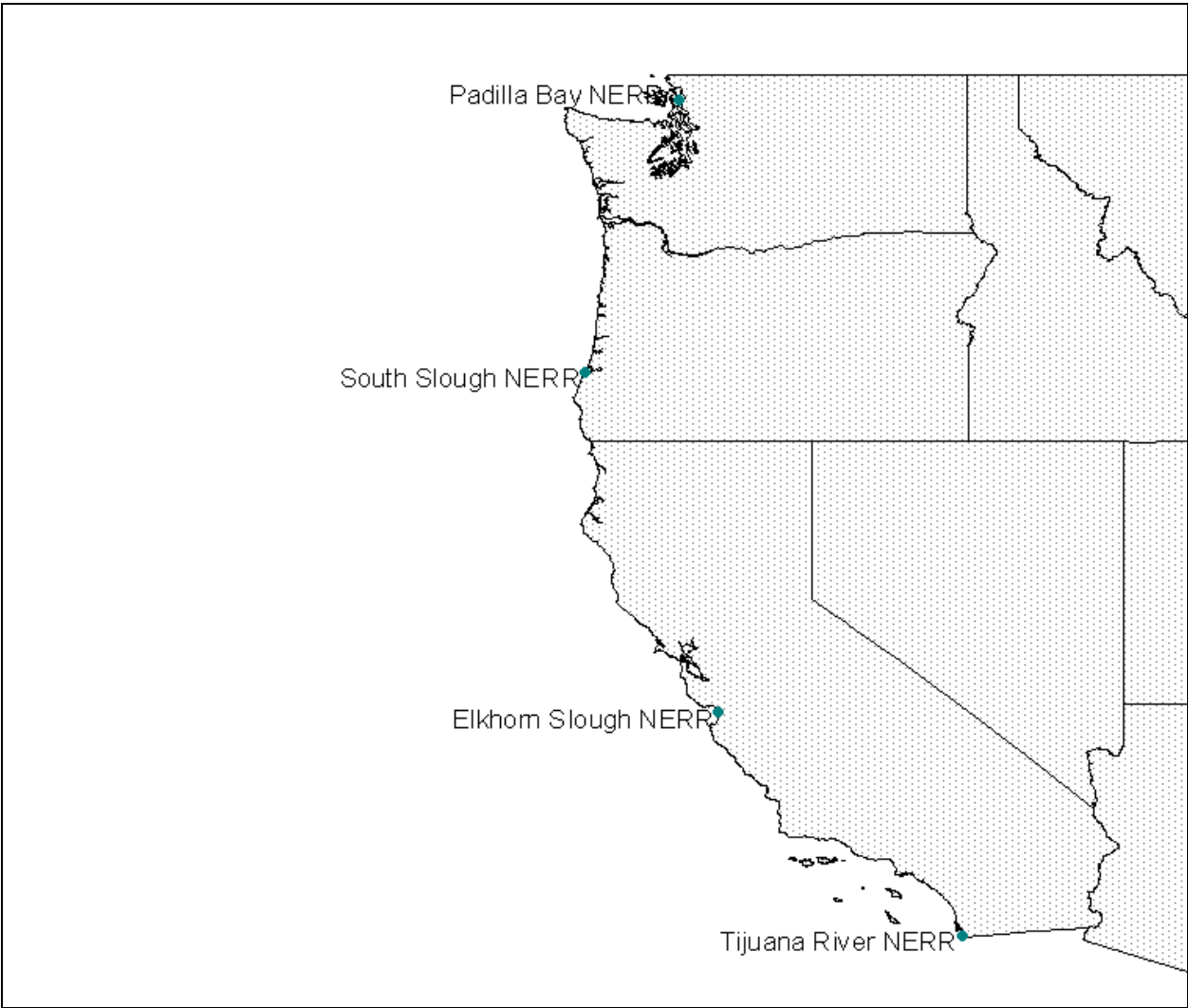


Figure 4. National Estuarine Research Reserves of coastal California, Oregon, and Washington.



Figure 5. National Estuary Program sites of coastal California, Oregon, and Washington.

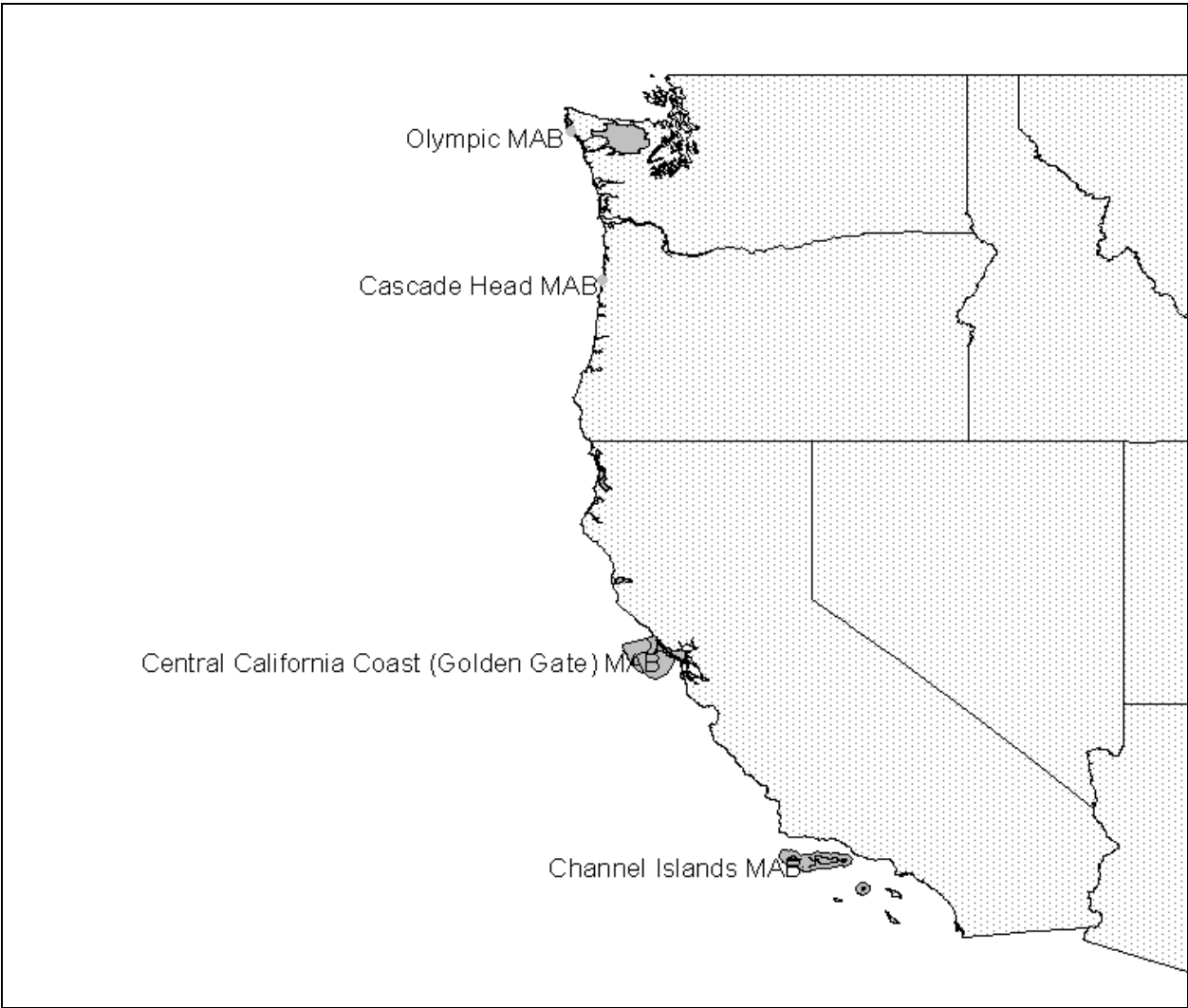


Figure 6. UNESCO Man and the Biosphere Reserve sites of coastal California, Oregon, and Washington.

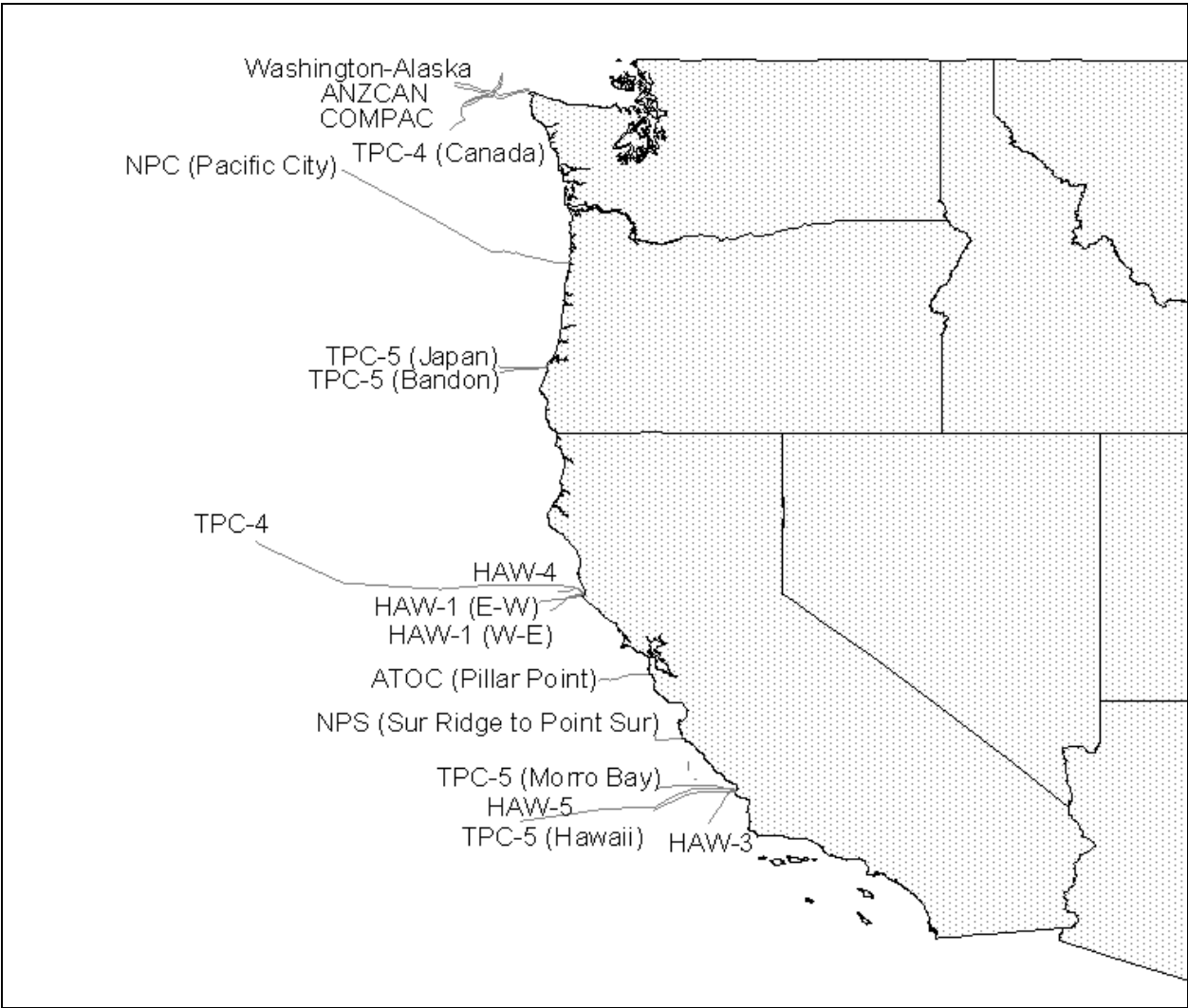


Figure 7. Nearshore segments of undersea communications and scientific cables located of the coasts of California, Oregon, and Washington.

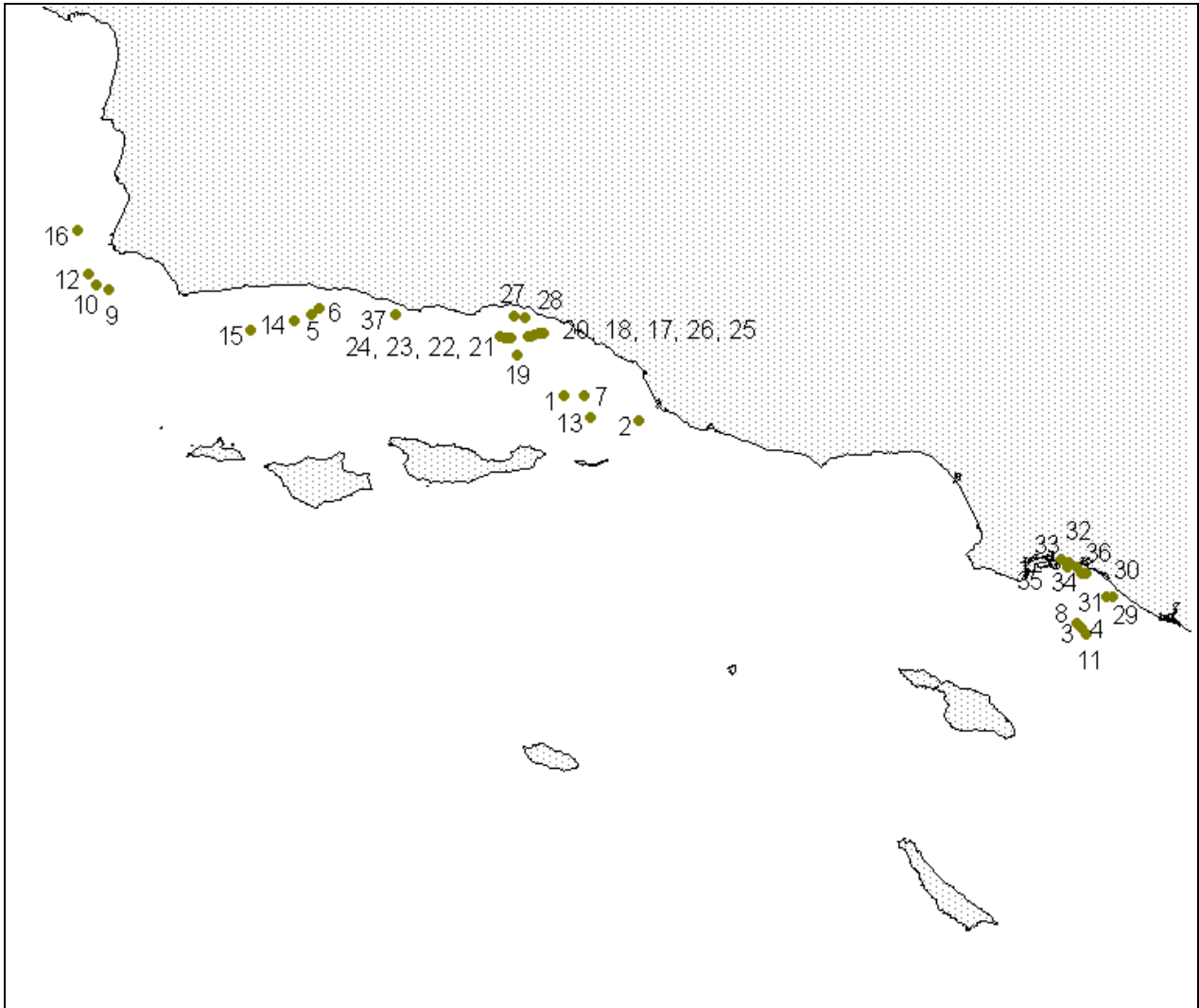


Figure 8. Offshore drilling platforms located off the coast of California (see Table 12 for reference numbers).

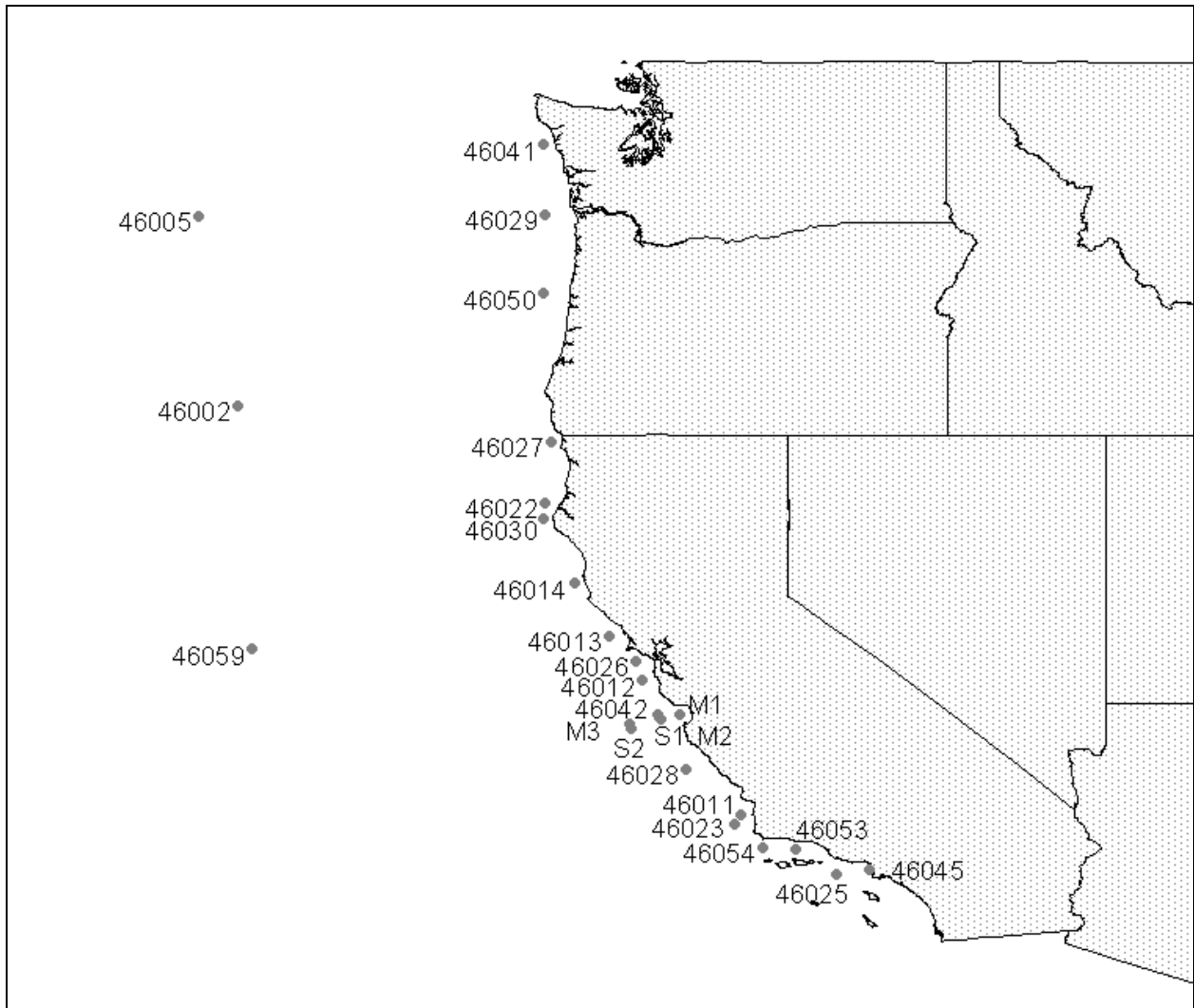


Figure 9. Weather and scientific buoys moored off the coasts of California, Oregon, and Washington.



Appendix A. List of ArcView shapefiles compiled and submitted under this contract

<b>File(s)</b>	<b>Contents</b>
Subdirectory \PFMC 12-98	
Buoys.(dbf, shp,shx)	Weather and scientific buoys
CA1.(dbf, shp,shx)	California state marine protected area shapefiles
CA2.(dbf, shp,shx)	Descriptive information on California state marine protected areas
Cables.(dbf, shp,shx)	Nearshore communications and scientific underwater cables
ConUS.(dbf, shp,shx)	Continental United States shapefile (1:250,000 from NOAA)
MAB.(dbf, shp,shx)	UNESCO Man and the Biosphere shapefiles
MAB_pt.(dbf, shp,shx)	UNESCO Man and the Biosphere point locations
NEP.(dbf, shp,shx)	National Estuary Program shapefiles
NEP_pt.(dbf, shp,shx)	National Estuary Program point locations
NERR.(dbf, shp,shx)	National Estuarine Research Reserve shapefiles
NERR_pt.(dbf, shp,shx)	National Estuarine Research Reserves point locations
NMS.(dbf, shp,shx)	National Marine Sanctuary shapefiles
NWR_pt.(dbf, shp,shx)	National Wildlife Refuges point locations
Oregon.(dbf, shp,shx)	Oregon state marine protected area point locations
Parks.(dbf, shp,shx)	National Parks and Monuments
Platform.(dbf, shp,shx)	Offshore drilling platform point locations
33CFR165.(dbf, shp,shx)	Regulated Navigation area shapefiles
33CFR334.(dbf, shp,shx)	Danger Zone and Restricted Area shapefiles
Subdirectory \MPA	
	Preliminary shapefiles of Marine Protected Areas in Puget Sound (provided by Dale Gombert, WDFW)
ARC	
ARX	
BND.DBF	
CNT	
CNX	
LAB	
NRF	
PAL	
PAT.DBF	
PAX	
PRF	
TIC.DBF	
TOL	
TXT	
TXX	

<b>File(s)</b>	<b>Contents</b>
Subdirectory \MPA_SJB ARC ARX BND.DBF CNT CNX LAB NRF PAL PAT.DBF PAX PRF TIC.DBF TOL TXT TXX	Preliminary shapefiles of Marine Protected Areas in the San Juan Borough (provided by Dale Gombert, WDFW)
Subdirectory \USGS AAT.DBF ARC ARF ARX BND.DBF CNT CNX LAB NRF PAL PAT.DBF PAX PRF TIC.DBF TOL TXT TXX	Washington and Oregon coast shapefiles, 1:100,000 (provided by Dale Gombert, WDFW)