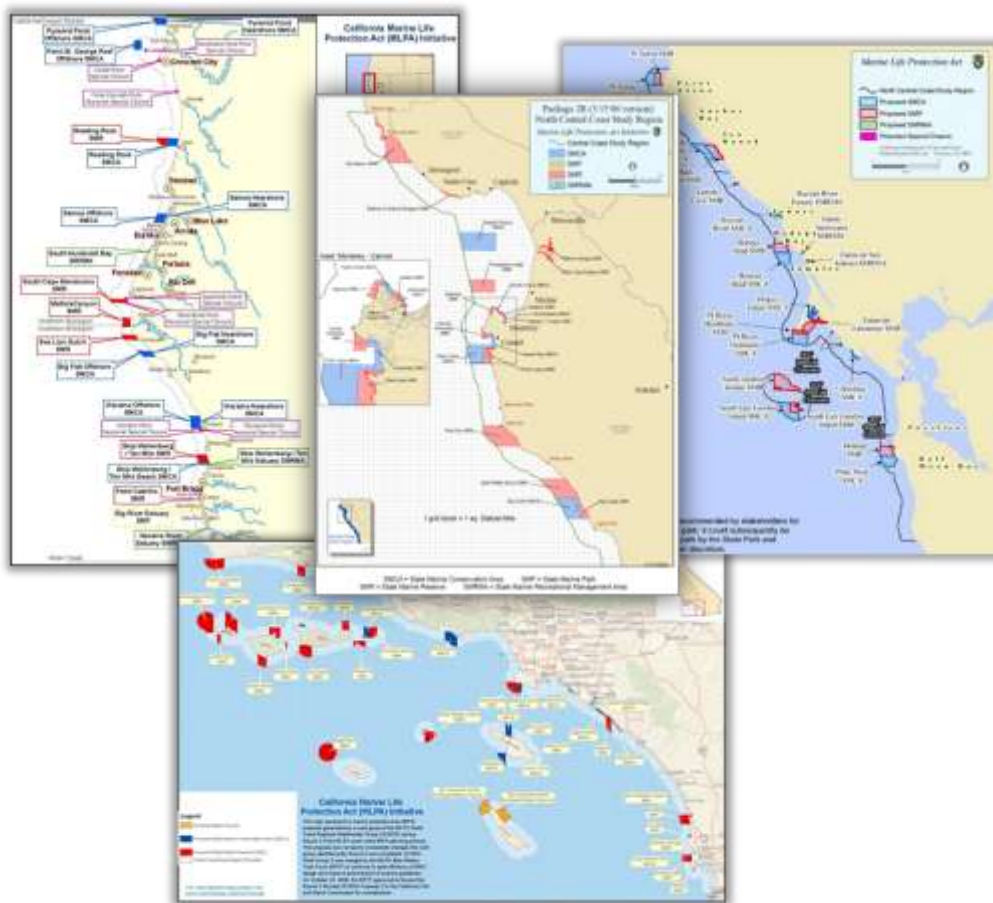


Overview of Alternative Marine Protected Area Proposals: The Marine Life Protection Act Initiative (2004 – 2012)

California Department of Fish and Wildlife
Informational Report



August 21, 2015

Purpose of This Document

This document is intended to serve as a historical record for alternative marine protected area proposals considered and reviewed by the California Fish and Game Commission, but not selected following the Marine Life Protection Act Initiative planning process from 2004 to 2012 to redesign California’s system of marine protected areas. This document builds upon Appendix P of the draft [2008 California Marine Life Protection Act Master Plan for Marine Protected Areas](#), and provides an important source of summarized information for the management of California’s marine protected areas going forward.

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Background

The [Marine Life Protection Act](#) (MLPA) was passed in 1999 by the California Legislature, directing the California Department of Fish and Wildlife (CDFW) to redesign California's existing system of marine protected areas (MPAs) to increase its coherence and effectiveness for protecting the state's marine life, habitats, and ecosystems. From 2004 to 2012, the MLPA Initiative (a public-private partnership between CDFW, the California Natural Resources Agency, and Resources Legacy Fund Foundation) directed and informed four regional science guided and stakeholder driven MPA design and siting processes.

The four regions for which MPA planning commenced were called "[study regions](#)". In each study region, an iterative MPA design process was implemented that incorporated multiple rounds of MPA design, evaluation, and redesign. A Regional Stakeholder Group (RSG) developed regional alternative MPA proposals over multiple rounds that were reviewed and evaluated by a Science Advisory Team (SAT), CDFW, MLPA Initiative staff, and a policy-level Blue Ribbon Task Force (BRTF). California Department of Parks and Recreation (CDPR) staff also reviewed and evaluated alternative MPA proposals over multiple rounds in the south coast study region and north coast study region. In addition to the RSG, another group of stakeholders, the Statewide Interests Group, provided an additional broader forum to improve public involvement in the process. Following each regional MPA planning process, the BRTF forwarded the range of alternative MPA proposals along with their recommendations to the California Fish and Game Commission (Commission)¹. The Commission had the final decision, and ultimately selected a regional network of MPAs following a separate regulatory process in each of four regions; collectively resulting in a [statewide network of MPAs](#) across the entire California coast.

Alternative MPA proposals in each study region considered by the Commission were evaluated for compliance with the Administrative Procedures Act and California Environmental Quality Act (CEQA). This document primarily summarizes those alternatives not selected by the Commission during the regulatory process. To access complete planning records, regulatory and environmental review process documents for all study regions, and their rationale, visit the [CDFW website](#) and the [Commission website](#).

Summaries of the alternative MPA proposals in this document are organized from north to south: the north coast study region, the north central coast study region, the central coast study region, and the south coast study region².

¹ An exception was during the first regional MPA planning process, the Central Coast, where the BRTF forwarded a range of alternative MPA proposals to CDFW. CDFW then forwarded alternative MPA proposals to the Commission. See Chapter 3 for more information.

² The actual chronological order of study regions implemented during the MLPA Initiative was the central coast study region, north central coast study region, south coast study region, and north coast study region.

Chapter 1: North Coast Study Region

The north coast regional MPA design and siting process occurred from 2009 to 2012, and was the last of the four study regions completed through the MLPA Initiative. This region covers approximately 1,027 square miles (sq mi) of state waters³ from the California/Oregon border south to Alder Creek near Point Arena (Mendocino County). In October 2010, the BRTF received one MPA proposal developed by the North Coast Regional Stakeholder Group (NCRSG) called the Revised Round 3 NCRSG MPA Proposal (RNCP), and separate NCRSG special closure recommendations. The BRTF also developed an MPA proposal in October 2010 called the BRTF North Coast Enhanced Compliance Alternative (ECA). In February 2011, the BRTF forwarded the RNCP, NCRSG special closure recommendations, ECA, and additional BRTF recommendations to the Commission. CDFW identified unresolved feasibility issues for MPAs in the RNCP, and the Commission directed their staff to work with CDFW, MLPA Initiative staff, and CDPR to develop additional options for the Commission to consider. In June 2011, the Commission developed the Proposed Regulation with regulatory sub-options at various geographies and directed CDFW to prepare a regulatory package using the Proposed Regulation as its preferred alternative. In June 2012, the Commission adopted a [regional network](#) of 6 state marine reserves (SMRs), 13 state marine conservation areas (SMCAs), 1 state marine recreational management area (SMRMA), and 7 special closures that were implemented December 19, 2012, covering approximately 137 sq mi of state waters or about 13% of the north coast region.

Alternative MPA proposals considered by the Commission, but not ultimately selected, during the formal regulatory process included Alternative 1 (the BRTF ECA) and the No Change Alternative (existing MPAs). Summaries of each alternative are described briefly below, including proposed MPA locations, allowed take, habitat representation, and other descriptive information. Alternatives were completely analyzed and compared in the CEQA environmental impact report for the regulatory process ([State Clearinghouse #2011092029](#)). Additionally, many early proposals and alternatives were discussed during the lengthy stakeholder process leading to the Commission's formal review. To access complete north coast regulatory and environmental review process documents, and their rationale, visit the [CDFW website](#) and the [Commission website](#).

1.1 Alternative 1 (BRTF North Coast Enhanced Compliance Alternative)

Alternative 1 was developed by the BRTF as the North Coast Enhanced Compliance Alternative (ECA). This alternative used the same geographies as the MPAs in the Proposed Project, but incorporated tribal uses into four proposed State Marine Conservation Areas (SMCAs) while addressing feasibility and enforcement concerns in some MPA locations. To accomplish this, four SMCAs were divided into two MPAs: (1) a nearshore SMCA (to approximately 1,000 feet seaward) and (2) an offshore SMCA. Under the ECA, MPAs would have been designated as shown in Figure 1 and Tables 1 and 2. Proposed allowed take in MPAs would have been as described in Table 3. The representation of different habitat types

³ The boundary of California state waters is from mean high tide to three nautical miles offshore of all intertidal rocks and mouths of embayments, including large open bays. This method of measurement creates instances where the state water boundary is further offshore than three nautical miles (e.g., Monterey Bay and the area around Reading Rock).

would have been as described in Table 4. The NCRSG developed special closures separately from MPA proposals. The BRTF forwarded the NCRSG special closures recommendations to be linked to both the ECA and the RNCP.

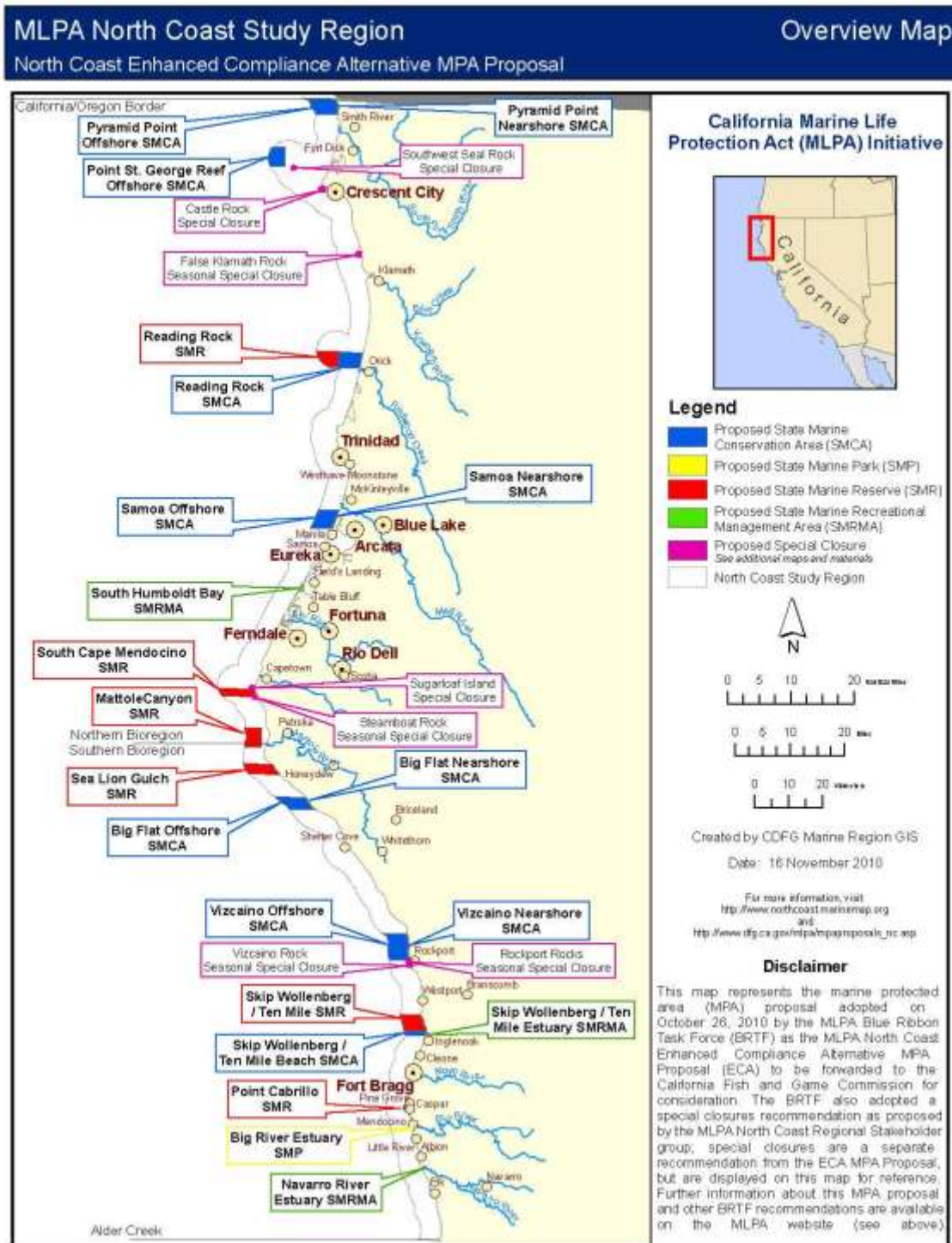


Figure 1. Alternative 1 (BRTF North Coast Enhanced Compliance Alternative).

Table 1. Overall Summary of Alternative 1 (BRTF North Coast Enhanced Compliance Alternative).

Type of MPA	Total Proposed	Area (Square Miles)	Percent of Study Region
State Marine Reserve (SMR)	6	51.17	5.0
State Marine Recreational Management Area (SMRMA)	3	1.03	0.1
State Marine Park (SMP)*	1	0.12	<0.1
State Marine Conservation Area (SMCA)	11	81.86	8.0
All MPAs	21	134.18	13.1

* One area was recommended by stakeholders and the BRTF as an SMP with restrictions consistent with this designation. Pursuant to the California Fish and Game Commission authority (Public Resources Code, Section 36725[a]), it would have been adopted as an SMCA, although it could have subsequently been designated as an SMP at the discretion of the State Park and Recreation Commission, the designating authority for SMPs.

Table 2. Individual MPAs in Alternative 1 (BRTF North Coast Enhanced Compliance Alternative).

MPA Name	Size (Square Miles)	Alongshore Span (Miles) ^a	Depth Range (Feet)
Pyramid Point Offshore SMCA*	13.13	2.9	12-124
Pyramid Point Nearshore SMCA	0.88	2.9	0-12
Point St. George Reef Offshore SMCA*	9.52	3.5	176-399
Reading Rock SMR*	9.57	2.9	147-253
Reading Rock SMCA	11.84	2.9	0-165
Samoa Offshore SMCA	12.08	3.6	8-158
Samoa Nearshore SMCA	0.93	3.6	0-8
South Humboldt Bay SMRMA	0.79	N/A	N/A
South Cape Mendocino SMR	9.06	1.4	0-277
Mattole Canyon SMR*	9.76	3.5	82-1,646
Sea Lion Gulch SMR	10.37	2.0	0-375
Big Flat Offshore SMCA*	10.73	2.5	26-1,110
Big Flat Nearshore SMCA	0.78	2.5	0-31
Vizcaino Offshore SMCA*	16.79	4.9	28-391
Vizcaino Nearshore SMCA	1.66	4.9	0-69
Skip Wollenberg/Ten Mile SMR	11.97	3.1	0-343
Skip Wollenberg/Ten Mile Beach SMCA	3.53	0.9	0-288
Skip Wollenberg/Ten Mile Estuary SMRMA	0.18	N/A	N/A
Point Cabrillo SMR	0.44	0.9	0-40
Big River Estuary SMP	0.12	N/A	N/A
Navarro River Estuary SMRMA	0.06	N/A	N/A

^a Alongshore span is measured in miles (mi) as direct line from one end of the MPA to the other, roughly paralleling the coastline. An alongshore span is not calculated for estuarine MPAs.

* Indicates this MPA does not have a boundary that contacts the shore (alongshore span was measured along the westernmost boundary to approximately its north-south span).

Table 3. Allowed Take for Individual MPAs in Alternative 1 (BRTF North Coast Enhanced Compliance Alternative).

MPA Name	Proposed Take Allowed
Pyramid Point Offshore SMCA	Recreational take of pelagic finfish except salmon by spearfishing, and surf and night smelt by dip net or cast net. Recreational take intended to accommodate tribal uses of surf smelt, herring, and anchovy by dip net or cast net.
Pyramid Point Nearshore SMCA	Recreational take of pelagic finfish except salmon by spearfishing, and surf and night smelt by dip net or cast net. Recreational take intended to accommodate tribal uses of finfish by hook and line from shore only; shiner surfperch, surf smelt, top smelt, herring, anchovy, and sculpin by dip net or cast net; surf smelt by beach net; marine invertebrates (includes clams, mussels, other bivalves, sea urchins) by hand; and marine aquatic plants except for sea palm by hand.
Point St. George Reef Offshore SMCA	Commercial take of salmon by troll and Dungeness crab by trap. Recreational take of pelagic finfish except salmon by spearfishing, salmon by troll, and Dungeness crab by trap.
Reading Rock SMR	Take of all living marine resources is prohibited.
Reading Rock SMCA	Commercial take of salmon by troll, and surf and night smelt by dip net or cast net. Recreational take of pelagic finfish except salmon by spearfishing, salmon by troll, Dungeness crab by trap, hoop net, or diving, and surf and night smelt by dip net or cast net. Recreational take intended to accommodate tribal uses of Pacific lamprey by hook and line or bow and arrow; trout except steelhead rainbow trout by hook and line; pelagic finfish (including anchovy), sardine, mackerel, salmon, and billfishes (6 species) by troll; California halibut, other flatfish (7 species), billfishes (6 species), and Pacific lamprey by spearfishing; anchovy, sardine, mackerel (2 species), and Pacific lamprey by hand; sharks (7 species), ray, and skates (2 species) by spear, harpoon, or bow and arrow.
Samoa Offshore SMCA	Commercial take of salmon by troll, Dungeness crab by trap, and surf and night smelt by dip net or cast net. Recreational take of pelagic finfish except salmon by troll; Dungeness crab by trap, hoop net, or diving; and surf and night smelt by dip net or cast net. Recreational take intended to accommodate tribal uses of coastal pelagic finfish and Pacific lamprey by hook and line; pelagic finfish except salmon and Pacific lamprey by spearfishing; sharks (2 species) by spear or harpoon; anchovy by dip net or cast net; eulachon by dip net; and Dungeness crab by trap or hoop net.

Samoa Nearshore SMCA	Commercial take of salmon by troll, Dungeness crab by trap, and surf and night smelt by dip net or cast net. Recreational take of pelagic finfish except salmon by spearfishing; salmon by troll; Dungeness crab by trap, hoop net, or diving; and surf and night smelt by dip net or cast net. Recreational take intended to accommodate tribal uses of rockfish, cabezon, lingcod, greenling (2 species), California halibut, flatfishes (5 species), white sturgeon, sharks (2 species) ray and skates (2 species), pelagic finfish, and Pacific lamprey by hook and line; redbtail surfperch and other surfperch by hook and line from shore only; rockfish, cabezon, lingcod, greenling (2 species), pelagic finfish except salmon, and Pacific lamprey by spearfishing; sharks (2 species), and rays and skates (2 species) by spear or harpoon; shiner surfperch, surf smelt, and anchovy by dip net or cast net; eulachon by dip net; intertidal snails, clams (3 species), and cockles (2 species) by hand; and Dungeness crab by trap or hoop net.
South Humboldt Bay SMRMA	Take of all living marine resources is prohibited except recreational hunting of waterfowl is allowed unless otherwise restricted by hunting regulations (sections 502, 550, 551, and 552).
South Cape Mendocino SMR	Take of all living marine resources is prohibited.
Mattole Canyon SMR	Take of all living marine resources is prohibited.
Sea Lion Gulch SMR	Take of all living marine resources is prohibited.
Big Flat Offshore SMCA	Commercial take of salmon by troll and Dungeness crab by trap. Recreational take of pelagic finfish except salmon by spearfishing; salmon by troll; and Dungeness crab by trap, hoop net, or diving. Recreational take intended to accommodate tribal uses of salmon by troll; Pacific lamprey by spearfishing or bow and arrow; surf smelt and herring by dip net or cast net; and eulachon by dip net.
Big Flat Nearshore SMCA	Commercial take of salmon by troll and Dungeness crab by trap. Recreational take of pelagic finfish except salmon by spearfishing; salmon by troll; and Dungeness crab by trap, hoop net, or diving. Recreational take intended to accommodate tribal uses of rockfish, cabezon, lingcod, sculpin, salmon, and stickleback by hook and line; Pacific lamprey by spearfishing or bow and arrow; surf smelt, shiner surfperch, and herring by dip net or cast net; eulachon by dip net; octopus (3 species), purple shore crab, and bay and ghost shrimp by hand; red abalone, black and brown turban snails, limpets (3 species), clams and cockles, mussels, oysters, scallops, and urchin (2 species) by hand; and giant kelp, bull kelp, and other marine aquatic plants except for sea palm by hand.
Vizcaino Offshore SMCA	Commercial take of salmon by troll and Dungeness crab by trap. Recreational take of pelagic finfish except salmon by spearfishing; salmon by troll; and Dungeness crab by trap, hoop net, or diving. Recreational take intended to accommodate tribal uses of Pacific lamprey by hook and line, spearfishing, or bow and arrow; trout except steelhead rainbow trout by hook and line; salmon by troll; surf smelt, herring, and anchovy by dip net or cast net; eulachon by dip net; anchovy, sardine, and mackerel (2 species) by hand; market squid by dip net or cast net; and Dungeness crab by trap or hoop net.

Vizcaino Nearshore SMCA	Commercial take of salmon by troll and Dungeness crab by trap. Recreational take of pelagic finfish except salmon by spearfishing; salmon by troll; and Dungeness crab by trap, hoop net, or diving. Recreational take intended to accommodate tribal uses of rockfish, cabezon, greenling (2 species), lingcod, sculpin, California halibut, Pacific halibut, salmon, stickleback, trout except steelhead rainbow trout, and Pacific lamprey by hook and line; redbay surfperch and other surfperch by hook and line from shore only; shiner surfperch, surf smelt, herring, and anchovy by dip net or cast net; eulachon by dip net; anchovy, sardine, and mackerel (2 species) by hand; Pacific lamprey by spearfishing or bow and arrow; red abalone, black and brown turban snails, limpets (2 species), clams (11 species), and cockles (2 species), mussels, oysters, scallops, and urchin (2 species) by hand; market squid by dip net or cast net; Dungeness crab, other crabs (yellow, rock, red, slender, and purple shore) by trap or hoop net; coonstripe shrimp and spot prawn by trap; octopus (3 species) and bay and ghost shrimp by hand; and giant kelp, bull kelp, turf-forming and foliose algae except for sea palm by hand.
Skip Wollenberg/Ten Mile SMR	Take of all living marine resources is prohibited.
Skip Wollenberg/Ten Mile Beach SMCA	Commercial take of Dungeness crab by trap. Recreational take of pelagic finfish except salmon by spearfishing and Dungeness crab by trap, hoop net, or diving. Recreational take intended to accommodate tribal uses of rockfish, cabezon, greenling (2 species), lingcod, sculpin, California halibut, Pacific halibut, stickleback, trout except steelhead rainbow trout, and Pacific lamprey by hook and line; shiner surfperch, surf smelt, herring, and anchovy by dip net or cast net; eulachon by dip net; anchovy, sardine, and mackerel (2 species) by hand; Pacific lamprey by spearfishing or bow and arrow; and octopus (3 species) and bay and ghost shrimp by hand.
Skip Wollenberg/Ten Mile Estuary SMRMA	Take of all living marine resources is prohibited. Waterfowl hunting allowed.
Point Cabrillo SMR	Take of all living marine resources is prohibited.
Big River Estuary SMP	Recreational take of surfperch by hook and line from shore only, and Dungeness crab by hoop net or diving. Recreational take intended to accommodate tribal uses of Pacific lamprey by spearfishing or bow and arrow; eulachon by dip net; surf smelt, anchovy, and herring by dip net or cast net; anchovy, sardine, and mackerel (2 species) by hand; Dungeness crab by hoop net or trap; and market squid by dip net or cast net.
Navarro River Estuary SMRMA	Recreational take of salmon by hook and line and salmonids by hook and line. Recreational take intended to accommodate tribal uses of Pacific lamprey by spearfishing or bow and arrow; eulachon by dip net; surf smelt, anchovy, and herring by dip net or cast net; anchovy, sardine, and mackerel (2 species) by hand; Dungeness crab by hoop net or trap, and market squid by dip net or cast net.

Table 4. Habitat Representation in Alternative 1 (BRTF North Coast Enhanced Compliance Alternative).

Habitat	SMR		SMRMA		SMP		SMCA		Total MPAs	
	Area	%	Area	%	Area	%	Area	%	Area	%
Intertidal										
Beaches*	2.55	1	0.41	<1	0.25	<1	15.20	8	18.42	10
Rocky shores*	12.62	8	1.21	1	0.77	<1	4.96	3	19.56	12
Hardened shores*	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Coastal marsh*	0.00	0	4.41	5	1.29	1	0.00	0	5.70	6
Coastal marsh	0.00	0	0.09	3	0.02	1	0.00	0	0.11	3
Tidal flats*	0.00	0	0.36	1	0.28	<1	0.00	0	0.64	1
Seagrass										
Humboldt Eelgrass	0.00	0	0.23	3	0.00	0	0.00	0	0.23	3
Estuarine										
Estuary	0.00	0	1.03	2	0.12	<1	0.00	0	1.15	3
Hard										
0–30 meters	0.92	3	0.00	0	0.00	0	1.54	5	2.46	8
0–30 meters proxy*,a	2.09	4	0.00	0	0.00	0	1.88	4	3.97	8
30–100 meters	6.91	21	0.00	0	0.00	0	0.48	1	7.39	22
100–200 meters	0.25	36	0.00	0	0.00	0	0.01	1	0.26	37
>200 meters	0.02	28	0.00	0	0.00	0	0.01	14	0.03	42
Soft										
0–30 meters proxy*,a	5.43	3	0.00	0	0.00	0	16.41	9	21.83	12
0–30 meters	4.61	2	0.00	0	0.00	0	27.54	9	32.15	11
30–100 meters	30.94	7	0.00	0	0.00	0	37.38	8	68.32	15
100–200 meters	3.33	5	0.00	0	0.00	0	6.89	11	10.22	16
>200 meters	1.61	21	0.00	0	0.00	0	0.59	8	2.20	29
Unknown										
0-30 meters	2.54	2	1.03	1	0.12	<1	7.14	6	10.83	8
30-100 meters	0.01	<1	0.00	0	0.00	0	0.28	9	0.29	9
100-200 meters	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
>200 meters	0.02	10	0.00	0	0.00	0	0.00	0	0.02	10
Other										
Offshore rocks*	3.17	6	0.00	0	0.00	0	2.12	4	5.29	10
Canyon	1.51	20	0.00	0	0.00	0	0.67	9	2.18	29
Linear kelp*	3.10	6	0.00	0	0.00	0	1.75	3	4.85	9

* Habitats are measured as an area (mi²) except for those with an asterisk (*) notation. Habitats with an asterisk (*) notation are expressed in linear units (mi).

^a A linear measurement of substrate in the 0–30 meter zone, called the 0–30 meter proxy line was developed to address the limited fine scale data for the nearshore habitat. The proxy line is drawn roughly parallel to shore at 12–15 meter depth and is divided into short segments and the estimated proportion of hard and soft bottom in the 0-30 meter zone is associated with each segment.

1.2 No Change Alternative (Existing MPAs)

Under the No Change Alternative, existing MPAs would have remained unchanged as shown in Figure 2 and Tables 5 and 6. Allowed take in MPAs would have remained unchanged as described in Table 7. The representation of different habitat types would have remained unchanged as described in Table 8.

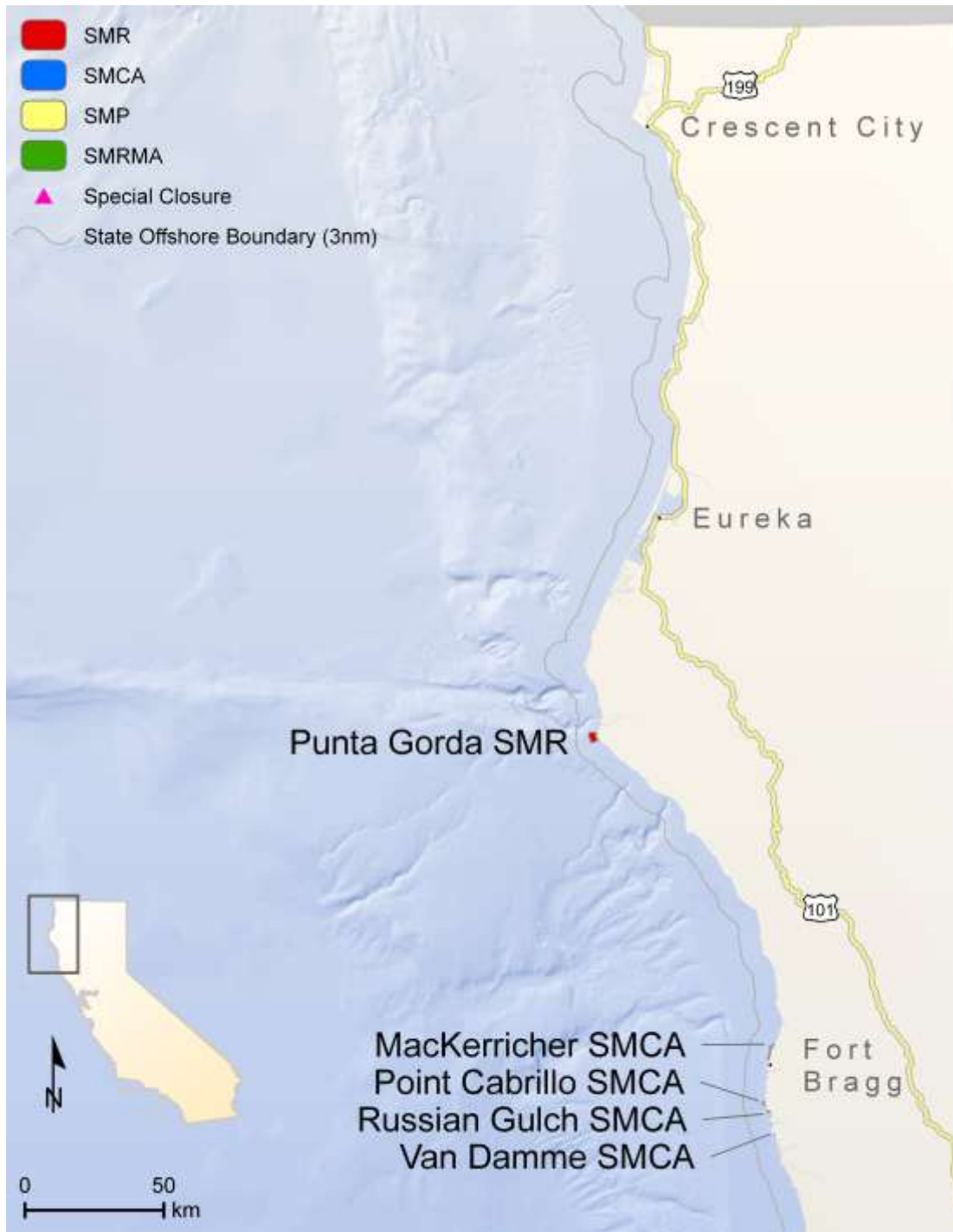


Figure 2. No Change Alternative (Existing MPAs).

Table 5. Overall Summary of No Change Alternative (Existing MPAs).

Type of MPA	Total Proposed	Area (Square Miles)	Percent of Study Region
State Marine Reserve (SMR)	1	2.07	0.2
State Marine Recreational Management Area (SMRMA)	0	0.00	0.0
State Marine Park (SMP)	0	0.00	0.0
State Marine Conservation Area (SMCA)	4	1.06	0.1
All MPAs Combined	5	3.13	0.3

Table 6. Individual MPAs in No Change Alternative (Existing MPAs).

MPA Name	Size (Square Miles)	Alongshore Span (Miles)	Depth Range (Feet)
Punta Gorda SMR	2.07	1.6	15 – 184
MacKerricher SMCA	0.72	3.0	0 – 38
Point Cabrillo SMCA	0.22	0.9	0 – 20
Russian Gulch SMCA	0.09	0.7	0 – 3
Van Damme SMCA	0.02	0.2	0 – 11

Table 7. Allowed Take for Individual MPAs in No Change Alternative (Existing MPAs).

MPA Name	Proposed Take Allowed
Punta Gorda SMR	Take of all living marine resources is prohibited.
MacKerricher SMCA	The take of all living marine resources is prohibited except: 1. The recreational take of Finfish, red abalone, chiones, clams, cockles, rock scallops, native oysters, crabs, lobster, ghost shrimp, sea urchins, mussels and marine worms except that no worms may be taken in any mussel bed unless taken incidentally to the take of mussels.. 2. The commercial take of Finfish, crabs, ghost shrimp, jackknife clams, sea urchins, squid, algae except giant kelp and bull kelp and worms except that no worms may be taken in any mussel bed, nor may any person pick up, remove, detach from the substrate any other organisms, or break up, move or destroy any rocks or other substrate or surfaces to which organisms are attached.
Point Cabrillo SMCA	The take of all living marine resources is prohibited except: 1. The recreational take: none 2. The commercial take of Finfish and marine aquatic plants.
Russian Gulch SMCA	The take of all living marine resources is prohibited except: 1. The recreational take of Finfish, red abalone, chiones, clams, cockles, rock scallops, native oysters, crabs, lobster, ghost shrimp, sea urchins, mussels and marine worms except that no worms may be taken in any mussel bed unless taken incidentally to the take of mussels. 2. The commercial take of Finfish, crabs, ghost shrimp,

	jackknife clams, sea urchins, algae except giant kelp and bull kelp and worms except that no worms may be taken in any mussel bed, nor may any person pick up, remove, detach from the substrate any other organisms, or break up, move or destroy any rocks or other substrate or surfaces to which organisms are attached.
Van Damme SMCA	The take of all living marine resources is prohibited except: 1. The recreational take of Finfish, red abalone, chiones, clams, cockles, rock scallops, native oysters, crabs, lobster, ghost shrimp, sea urchins, mussels and marine worms except that no worms may be taken in any mussel bed unless taken incidentally to the take of mussels. 2. The commercial take of Finfish, crabs, ghost shrimp, jackknife clams, sea urchins, algae except giant kelp and bull kelp and worms except that no worms may be taken in any mussel bed, nor may any person pick up, remove, detach from the substrate any other organisms, or break up, move or destroy any rocks or other substrate or surfaces to which organisms are attached.

Table 8. Habitat Representation in No Change Alternative (Existing MPAs).

Habitat	Area and Percentage (%) of Habitat in Each Type of MPA				
	SMR	SMRMA	SMP	SMCA	Total
Intertidal					
Sandy or gravel beach*	0.00 (0%)	0.00 (0%)	0.00 (0%)	1.92 (1%)	1.92 (1%)
Rocky shores*	0.00 (0%)	0.00 (0%)	0.00 (0%)	7.84 (5%)	7.84 (5%)
Hardened Shores*	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)
Coastal marsh*	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)
Coastal marsh	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)
Tidal flats*	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)
Seagrass					
Humboldt Eelgrass	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)
Estuarine					
Estuary	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)
Soft Bottom					
0 – 30 meters	0.27 (1%)	0.00 (0%)	0.00 (0%)	0.16 (1%)	0.44 (1%)
0 – 30 meters proxy*, ^a	0.81 (2%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.81 (2%)
30 – 100 meters	0.26 (1%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.26 (1%)
100 – 200 meters	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)
>200 meters	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)
Hard Bottom					

0 – 30 meters	0.44 (<1%)	0.00 (0%)	0.00 (0%)	0.07 (<1%)	0.51 (<1%)
0 – 30 meters proxy ^a	0.77 (<1%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.77 (<1%)
30 – 100 meters	1.00 (<1%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	1.00 (<1%)
100 – 200 meters	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)
>200 meters	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)
Unknown					
0 – 30 meters	0.10 (<1%)	0.00 (0%)	0.00 (0%)	0.82 (<1%)	0.92 (1%)
30 – 100 meters	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)
100 – 200 meters	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)
>200 meters	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)
Other					
Offshore Rocks*	0.00 (0%)	0.00 (0%)	0.00 (0%)	6.49 (4%)	6.49 (4%)
Canyon	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)
Linear Kelp*	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.23 (<1%)	0.23 (<1%)

* Habitats are measured as an area (mi²) except for those with an asterisk (*) notation. Habitats with an asterisk (*) notation are expressed in linear units (mi).

^a A linear measurement of substrate in the 0-30 meter (m) zone, called the 0-30m proxy line was developed to address the limited fine scale data for the nearshore habitat. The proxy line is drawn roughly parallel to shore at 12-15m depth and is divided into short segments and the estimated proportion of hard and soft bottom in the 0-30m zone is associated with each segment.

Chapter 2: North Central Coast Study Region

The north central coast regional MPA design and siting process occurred from 2007 to 2010, and was the second of the four study regions completed through the MLPA Initiative. This region covers approximately 763 sq mi of state waters from Alder Creek near Point Arena (Mendocino County) south to Pigeon Point (San Mateo County). In April 2008, the BRTF received three MPA proposals developed by the North Central Coast Regional Stakeholder Group (NCCRSG), and developed their own integrated preferred alternative proposal (referred to as the BRTF IPA) by incorporating, and in some cases modifying, proposed MPAs from all three NCCRSG proposals. In June 2008, the BRTF forwarded all three NCCRSG proposals, the BRTF IPA, and a “no action” alternative proposal (existing MPAs) to the Commission. The Commission directed CDFW to prepare a regulatory package using the BRTF IPA as its preferred alternative. In August 2009, the Commission adopted a [regional network](#) of 10 SMRs, 12 SMCAs, 3 SMRMAs, and 6 special closures that were implemented May 1, 2010, covering approximately 152 sq mi of state waters or about 20% of the north central coast region.

Alternative MPA proposals considered by the Commission, but not ultimately selected, during the formal regulatory process included Alternative 1 (referred to as Proposal 1-3), Alternative 2 (referred to as Proposal 2X-A), Alternative 3 (referred to as Proposal 4), and the No Change Alternative (existing MPAs). Summaries of each alternative are described briefly below, including proposed MPA locations, allowed take, habitat representation, and other descriptive information. Alternatives were completely analyzed and compared in the CEQA environmental impact report for the regulatory process ([State Clearinghouse #2008062028](#)). Additionally, many early proposals and alternatives were discussed during the lengthy stakeholder process leading to the Commission’s formal review. To access complete north central coast regulatory and environmental review process documents, and their rationale, visit the [CDFW website](#) and the [Commission website](#).

2.1 Alternative 1 (Proposal 1-3)

Alternative 1 was developed by the NCCRSG and known as proposal 1-3. Under Alternative 1, MPAs would have been designated as shown in Figure 3 and Tables 9 and 10. Proposed allowed take in MPAs would have been as described in Table 11. The representation of different habitat types would have been as described in Table 12. Special closures would have been as described in Table 13. Alternative 1 would have designated slightly more of the study region as MPAs than the Commission preferred alternative.

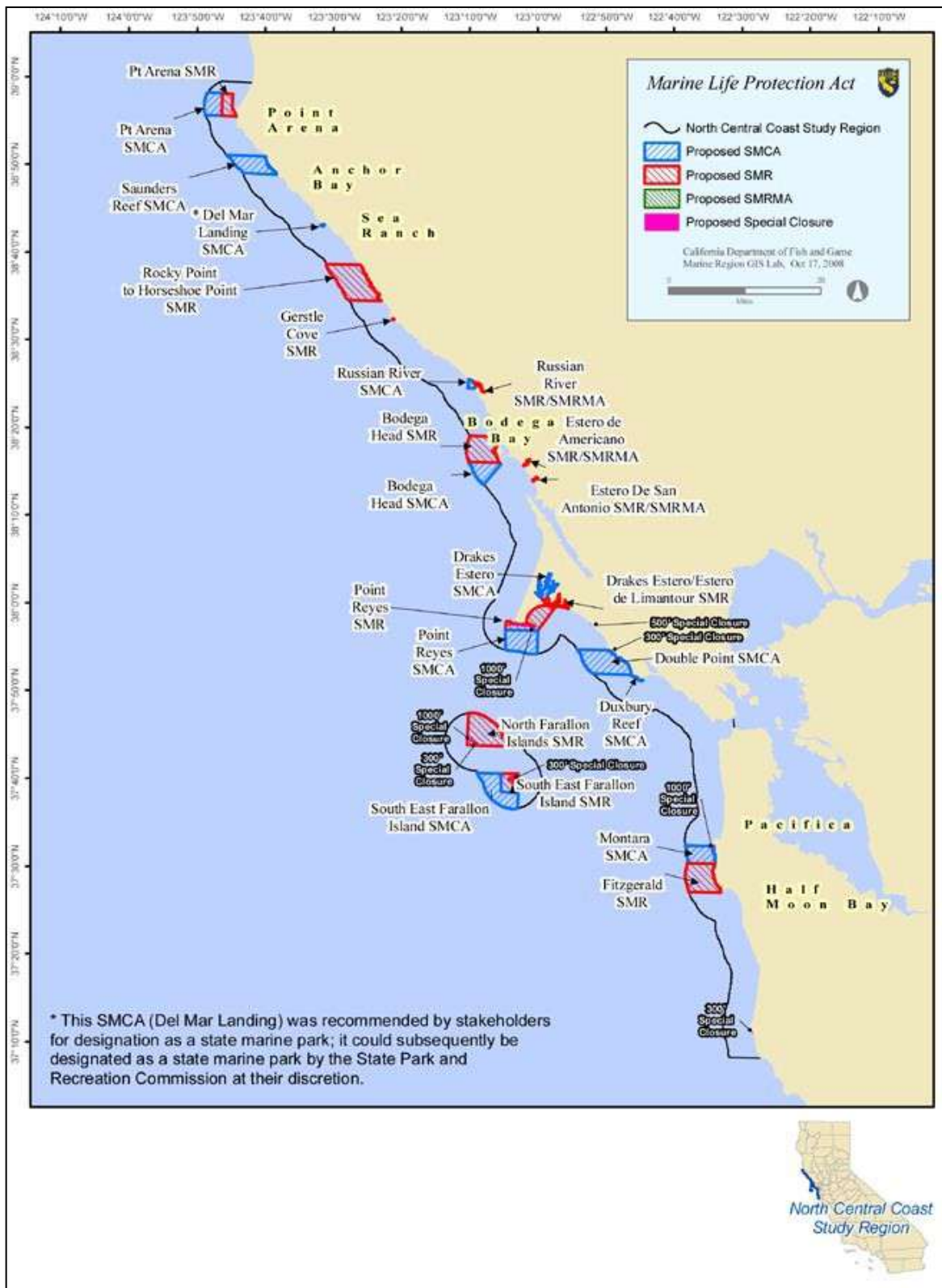


Figure 3. Map of Alternative 1 (Proposal 1-3).

Table 9. Overall Summary of Alternative 1 (Proposal 1-3).

Type of MPA	Total Proposed	Area (Square Miles)	Percent of Study Region
State Marine Reserve	12	87.2	11.4
State Marine Conservation Area*	1	0.1	<0.1
State Marine Conservation Area	10	77.3	10.1
Special Closures	7	---	<1
All MPAs and SMRMA Combined	30	164.6	21.6

* This area, recommended by stakeholders to become an SMP, was designated as an SMCA, and could subsequently be designated also as an SMP at the discretion of the State Park and Recreation Commission.

Table 10. Individual MPAs in Alternative 1 (Proposal 1-3).

MPA Name	Size (Square Miles)	Alongshore Span (Miles)	Depth Range (Feet)
Point Arena SMR	4.38	3.0	0-173
Point Arena SMCA	6.73	3.0	153-324
Saunders Reef SMCA	10.52	3.0	0-276
Del Mar Landing SMCA*	0.10	0.3	0-55
Rocky Pt to Horseshoe Pt SMR	20.50	5.4	0-294
Gerstle Cove SMR	0.01	0.2	0-10
Russian River SMR	0.35	1.8	0-10
Russian River SMCA	0.86	1.0	0-57
Bodega Head SMR	13.23	3.5	0-266
Bodega Head SMCA	6.82	2.0	0-267
Estero Americano SMR	0.14	1.2	0-10
Estero de San Antonio SMR	0.08	0.7	0-10
Point Reyes SMR	9.38	7.5	0-132
Point Reyes SMCA	12.11	4.2	51-217
Drakes & Limantour Estero SMR	1.49	5.3	0-10
Drakes Estero SMCA	2.55	5.6	0-10
Double Point SMCA	16.25	3.9	0-150
Duxbury Reef SMCA	0.08	1.8	0-10
Fitzgerald SMR	14.24	2.3	0-170
Montara SMCA	8.42	3.8	0-134
North Farallon Islands SMR	18.09	N/A	0-275

Southeast Farallon Islands SMR	5.34	N/A	0-238
Southeast Farallon Islands SMCA	12.95	N/A	130-382

* This area, recommended by stakeholders to become an SMP, was designated as an SMCA, and could subsequently be designated also as an SMP at the discretion of the State Park and Recreation Commission.

Table 11. Allowed Take for Individual MPAs in Alternative 1 (Proposal 1-3).

MPA Name	Proposed Take Allowed
Point Arena SMR	Take of all living marine resources is prohibited.
Point Arena SMCA	Recreational take of salmon by trolling. Commercial take of salmon by troll fishing gear.
Saunders Reef SMCA	Recreational take of salmon by trolling; abalone, and finfish ^a by hook-and-line or by spear from shore only. Commercial take of salmon by troll fishing gear, and urchin.
Del Mar Landing SMCA ^b	Recreational take of finfish ^a by hook-and-line or spear.
Rocky Point to Horseshoe Point SMR	Take of all living marine resources is prohibited.
Gerstle Cove SMR	Take of all living marine resources is prohibited.
Russian River SMR (Option 1)	Take of all living marine resources is prohibited.
Russian River SMRMA (Option 2)	Take of all living marine resources is prohibited except recreational hunting of waterfowl is allowed unless otherwise restricted by hunting regulations (sections 502, 550, 551, and 552).
Russian River SMCA	Recreational take of Dungeness crab by trap, and surf smelt by hand-held dip net or beach net from shore only. Commercial take of Dungeness crab by trap.
Bodega Head SMR	Take of all living marine resources is prohibited.
Bodega Head SMCA	Recreational and commercial take of pelagic finfish ^c by hook-and-line (recreational salmon take by trolling and commercial salmon take with troll fishing gear only), and Dungeness crab by trap.
Estero Americano SMR (Option 1)	Take of all living marine resources is prohibited.
Estero Americano SMRMA (Option 2)	Take of all living marine resources is prohibited except recreational hunting of waterfowl is allowed unless otherwise restricted by hunting regulations (sections 502, 550, 551, and 552).
Estero de San Antonio SMR (Option 1)	Take of all living marine resources is prohibited.
Estero de San Antonio SMRMA (Option 2)	Take of all living marine resources is prohibited except recreational hunting of waterfowl is allowed unless otherwise restricted by hunting regulations (sections 502, 550, 551, and 552).
Point Reyes SMR	Take of all living marine resources is prohibited.
Point Reyes SMCA	Recreational take of salmon by trolling, and Dungeness crab by trap.
	Commercial take of salmon by troll fishing gear, and Dungeness crab by trap.

Drakes & Limantour Estero SMR	Take of all living marine resources is prohibited.
Drakes Estero SMCA	Recreational take of clams. Commercial aquaculture of shellfish pursuant to a valid State Water Bottom Lease and permit.
Double Point SMCA	Recreational and commercial take of salmon (recreational salmon take by trolling and commercial salmon take with troll fishing gear), Dungeness crab by trap, halibut by hook-and-line, and coastal pelagic species ^d except market squid.
Duxbury Reef SMCA	Recreational take of finfish ^a by hook-and-line from shore only.
Fitzgerald SMR	Take of all living marine resources is prohibited.
Montara SMCA	Recreational take of salmon by trolling, Dungeness crab by trap, and coastal pelagic species ^d by hook-and-line. Commercial take of salmon with troll fishing gear, Dungeness crab by trap, and coastal pelagic species ^d by hook-and-line.
North Farallon Islands SMR	Take of all living marine resources is prohibited.
Southeast Farallon Islands SMR	Take of all living marine resources is prohibited.
Southeast Farallon Islands SMCA	Take of all living marine resources is prohibited EXCEPT: the recreational take of salmon by trolling and commercial take of salmon with troll fishing gear.

^a Finfish are defined in subsection 632(a)(2) as: any species of bony fish or cartilaginous fish (sharks, skates and rays). Finfish do not include amphibians, invertebrates, plants or algae. The definition of finfish provided in Section 159 does not apply to this Section.

^b This area, recommended by stakeholders to become an SMP, was designated as an SMCA, and could subsequently be designated also as an SMP at the discretion of the State Park and Recreation Commission.

^c Pelagic Finfish are defined as: northern anchovy (*Engraulis mordax*), barracudas (*Sphyraena spp.*), billfishes* (family Istiophoridae), dolphinfish (*Coryphaena hippurus*), Pacific herring (*Clupea pallasii*), jack mackerel (*Trachurus symmetricus*), Pacific mackerel (*Scomber japonicus*), salmon (*Oncorhynchus spp.*), Pacific sardine (*Sardinops sagax*), blue shark (*Prionace glauca*), salmon shark (*Lamna ditropis*), shortfin mako shark (*Isurus oxyrinchus*), thresher sharks (*Alopias spp.*), swordfish (*Xiphias gladius*), tunas (family Scombridae), and yellowtail (*Seriola lalandi*). *Marlin is not allowed for commercial take.

^d Coastal pelagic species are defined in Section 1.39 as: northern anchovy (*Engraulis mordax*), Pacific sardine (*Sardinops sagax*), Pacific mackerel (*Scomber japonicus*), jack mackerel (*Trachurus symmetricus*), and market squid (*Loligo opalescens*).

Table 12. Habitat Representation in Alternative 1 (Proposal 1-3).

Habitat	Area and Percentage (%) of Habitat in Each Type of MPA			
	SMR ^a	SMCA ^b	SMCA	Total
Intertidal				
Sandy or gravel beaches*	13.65 (11%)	0.00 (0%)	4.33 (4%)	17.98 (15%)
Rocky intertidal and cliff*	32.80 (20%)	0.45 (0%)	18.31 (11%)	51.56 (31%)
Coastal marsh	0.23 (15%)	0.00 (0%)	0.21 (14%)	0.45 (29%)
Tidal Flats*	4.74 (26%)	0.00 (0%)	9.51 (14%)	22.70 (33%)
Seagrass beds (0-30 meters): Surfgrass*	13.19 (19%)	0.00 (0%)	9.51 (14%)	22.70 (33%)
Seagrass beds (0-30 meters): Eelgrass	1.43 (24%)	0.00 (0%)	2.53 (39%)	3.78 (63%)
Estuary	1.87 (10%)	0.00 (0%)	2.52 (13%)	4.38 (23%)
Soft Bottom				
0 – 30 meters*	5.32 (5%)	0.00 (0%)	6.11 (6%)	11.44 (11%)
30 – 100 meters	55.77 (13%)	0.00 (0%)	49.38 (12%)	105.15 (25%)
100 – 200 meters	N/A	N/A	N/A	N/A
>200 meters	N/A	N/A	N/A	N/A
Hard Bottom				
0 – 30 meters*	20.25 (25%)	0.00 (0%)	5.07 (6%)	25.32 (31%)
30 – 100 meters	9.35 (18%)	0.00 (0%)	6.24 (12%)	15.60 (30%)
100 – 200 meters	N/A	N/A	N/A	N/A
>200 meters	N/A	N/A	N/A	N/A
Substrate < 50 m deep				
Hard Substrate	11.06 (18%)	0.01 (0%)	6.27 (10%)	17.34 (28%)
Soft Substrate	17.83 (7%)	0.00 (0%)	23.76 (9%)	41.59 (15%)
Kelp Forest				
Average kelp (1989, 1999, 2002, 2003, 2004, 2005)*	6.91 (20%)	0.00 (0%)	2.14 (6%)	9.06 (26%)

* Habitats are measured as an area (mi²) except for those with an asterisk (*) notation. Habitats with an asterisk (*) notation are expressed in linear units (mi).

^a The SMR category groups together SMRs and SMRMAs.

^b This area, recommended by stakeholders to become an SMP, was designated as an SMCA, and could subsequently be designated also as an SMP at the discretion of the State Park and Recreation Commission.

Table 13. Special Closures in Alternative 1 (Proposal 1-3).

Geography	Boundaries	Species Intended to Protect	Seasonality
Point Reyes	1000 foot closure.	Common Murre, Pelagic Cormorant, Western Gull, Brandt's cormorant, Pigeon Guillemot, Rhinoceros Auklet, Ashy storm-petrel, roosting Brown Pelican (>100 pelicans), Elephant seal rookery.	Year Round
Point Resistance	500 foot closure.	Common Murre, Cormorant, Pigeon Guillemots, Roosting Brown Pelican (>100 pelicans).	Year Round
Stormy Stack	300 foot closure.	Second largest breeding colony in north central coast (~ 16,000 breeding birds): Common Murres, Brandt's cormorants, Pelagic cormorant, and Ashy storm-petrel. Roosting brown pelicans (>100 pelicans). Harbor seals (700-1,000#) haul-out and breeding along beach; California sea lions haul-out on islets.	Year Round
Egg Rock (Devil's Slide)	1,000 foot closure.	Common Murre, Brandt's cormorant, Pigeon guillemot, pelagic cormorants, western gull, black oystercatcher, and roosting brown pelicans (>100 pelicans).	Year Round
Bean Hollow	300 foot closure.	Harbor seal rookery and haul-out.	Seasonal (Feb-Aug)
North Farallon Islands	1,000 foot closure around North Farallon Island; 300 foot closure around Isle of St. James.	< 72,000 nesting seabirds including Common Murre, Pigeon Guillemot, Pelagic Cormorant, Brandt's cormorant, Western Gull, ad Cassin's Auklet; Steller sea lion haul-out.	Year Round
Southeast Farallon Islands	300 foot closure around Southeast Farallon Island excluding Fisherman's Bay and East Landing.	<180,000 nesting seabirds including Common murre, pelagic cormorant, Brandt's cormorant, Double-crested cormorant, pigeon guillemot, western gull, tufted puffins, Cassin's auklets, rhinoceros aukley, and Ashy storm-petrels. Steller sea lion haul-out and rookery; California sea lion haul-out; Northern elephant seal breeding.	Year Round

2.2 Alternative 2 (Proposal 2-XA)

Alternative 2 was developed by the NCCRSR and known as proposal 2-XA. Under Alternative 2, MPAs would have been designated as shown in Figure 4 and Tables 14 and 15. Proposed allowed take in MPAs would have been as described in Table 16. The representation of different habitat types would have been as described in Table 17. Special closures would have been as described in Table 18. Alternative 2 would have designated the smallest number and area of MPAs.

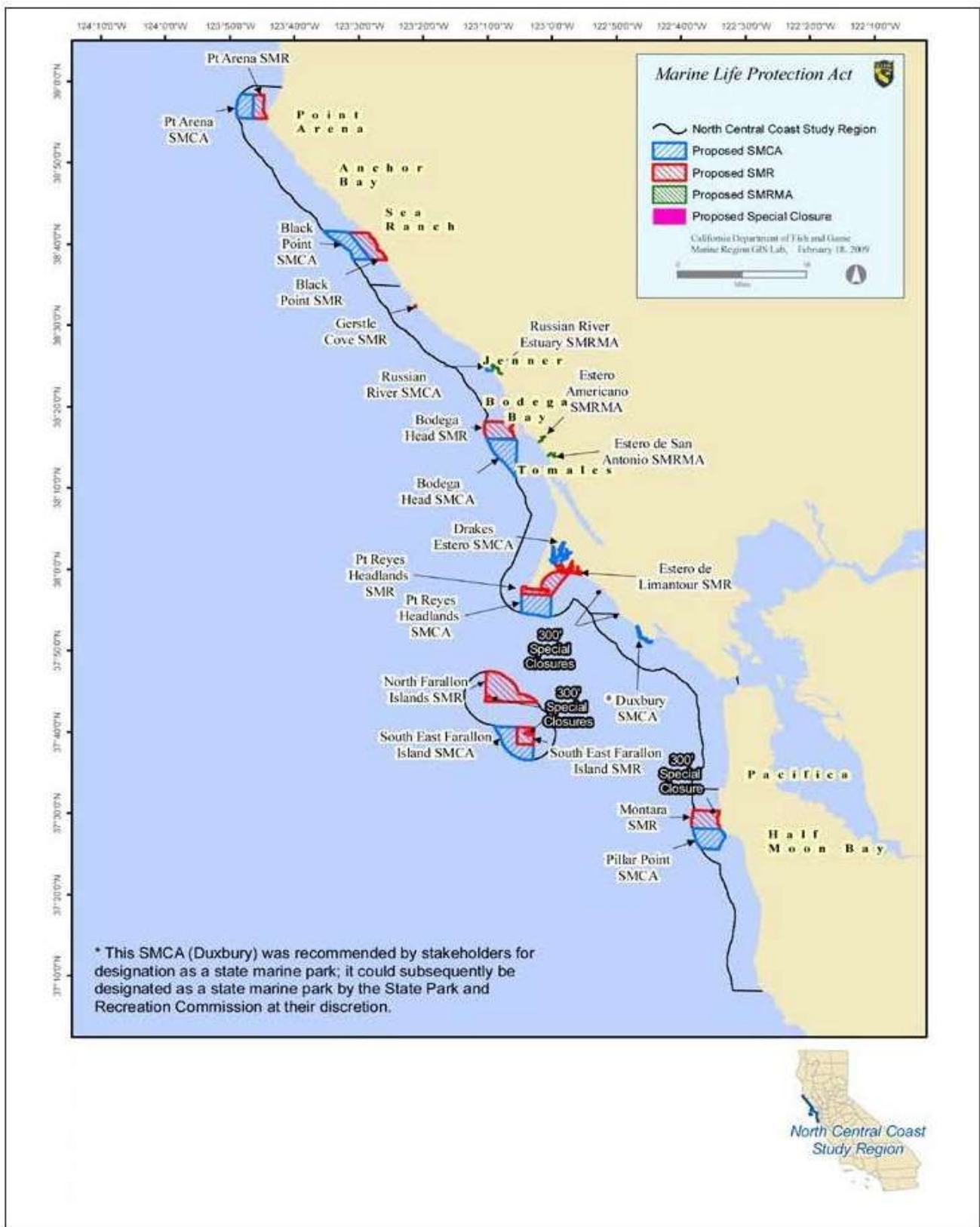


Figure 4. Map of Alternative 2 (Proposal 2-XA).

Table 14. Overall Summary of Alternative 2 (Proposal 2-XA).

Type of MPA	Total Proposed	Area (Square Miles)	Percent of Study Region
State Marine Reserve	12	67.41	8.8
State Marine Conservation Area*	1	0.7	0.1
State Marine Conservation Area	8	68.9	9.0
State Marine Recreational Management Area (SMRMA)	3	0.59	<1
Special Closures	5	---	<1
All MPAs and SMRMA Combined	29	137.5	18.0

* This area, recommended by stakeholders to become an SMP, was designated as an SMCA, and could subsequently be designated also as an SMP at the discretion of the State Park and Recreation Commission.

Table 15. Individual MPAs in Alternative 2 (Proposal 2-XA).

MPA Name	Size (Square Miles)	Alongshore (Miles)	Depth Range (Feet)
Point Arena SMR	5.05	3.5	0-176
Point Arena SMCA	7.42	3.5	153-324
Black Point SMR	9.61	5.0	0-240
Black Point SMCA	9.89	5.0	229-298
Gerstle Cove SMR	0.01	0.2	0-10
Russian River Estuary SMRMA	0.35	1.8	0-10
Russian River SMCA	0.35	1.0	0-57
Bodega Head SMR	9.30	2.5	0-266
Bodega Head SMCA	12.34	3.8	0-267
Estero Americano SMRMA	0.15	1.2	0-10
Estero de San Antonio SMRMA	0.09	1.0	0-10
Point Reyes Headlands SMR	9.29	7.5	0-132
Point Reyes Headlands SMCA	11.99	4.2	51-217
Estero de Limantour SMR	1.51	5.0	0-10
Drakes Estero SMCA	2.55	5.9	0-10
Duxbury SMCA*	0.66	3.0	0-10
Montara SMR	9.28	2.6	0-165
Pillar Point SMCA	10.41	2.8	0-174

North Farallon Islands SMR	18.09	N/A	0-275
Southeast Farallon Islands SMR	5.33	N/A	0-238
Southeast Farallon Islands SMCA	12.97	N/A	130-382

* This area, recommended by stakeholders to become an SMP, was designated as an SMCA, and could subsequently be designated also as an SMP at the discretion of the State Park and Recreation Commission.

Table 16. Allowed Take for Individual MPAs in Alternative 2 (Proposal 2-XA).

MPA Name	Proposed Take Allowed
Point Arena SMR	Take of all living marine resources is prohibited.
Point Arena SMCA	Recreational take of pelagic finfish ^a by hook-and-line (salmon by trolling only). Commercial take of pelagic finfish ^a by hook-and-line (salmon by troll fishing gear only), and coastal pelagic species ^b except market squid, by pelagic seine.
Black Point SMR	Take of all living marine resources is prohibited.
Black Point SMCA	Recreational take of pelagic finfish ^a by hook-and-line (salmon by trolling only). Commercial take of pelagic finfish ^a by hook-and-line (salmon by troll fishing gear only), and coastal pelagic species ^b except market squid, by pelagic seine
Gerstle Cove SMR	Take of all living marine resources is prohibited.
Russian River Estuary SMRMA	Take of all living marine resources is prohibited except recreational hunting of waterfowl is allowed unless otherwise restricted by hunting regulations (sections 502, 550, 551, and 552).
Russian River SMCA	Recreational and commercial take of marine invertebrates and finfish [subsection 632(a)(2)] EXCEPT: Chinook salmon.
Bodega Head SMR	Take of all living marine resources is prohibited.
Bodega Head SMCA	Recreational take of pelagic finfish ^a by trolling, and Dungeness crab by trap. Commercial take of pelagic finfish ^a by troll fishing gear or pelagic seine, Dungeness crab by trap, and market squid by pelagic seine.
Estero Americano SMR	Take of all living marine resources is prohibited except recreational hunting of waterfowl is allowed unless otherwise restricted by hunting regulations (sections 502, 550, 551, and 552).
Estero de San Antonio SMRMA	Take of all living marine resources is prohibited except recreational hunting of waterfowl is allowed unless otherwise restricted by hunting regulations (sections 502, 550, 551, and 552).
Point Reyes Headlands SMR	Take of all living marine resources is prohibited.

Point Reyes Headlands SMCA	Recreational take of pelagic finfish ^a by hook-and-line (salmon by trolling only), and Dungeness crab by trap. Commercial take of pelagic finfish ^a by hook-and-line (salmon with troll fishing gear only), coastal pelagic species ^b by pelagic seine, and Dungeness crab by trap.
Estero de Limantour SMR	Take of all living marine resources is prohibited.
Drakes Estero SMCA	Recreational take of clams. Commercial aquaculture of shellfish pursuant to a valid State Water Bottom Lease and permit.
Duxbury SMCA ^c	Recreational take of finfish ^d from shore only, and the recreational take of abalone.
Montara SMR	Take of all living marine resources is prohibited.
Pillar Point SMCA	Recreational take of pelagic finfish ^a by trolling, and Dungeness crab by trap, Commercial take of pelagic finfish ^a with troll fishing gear or pelagic seine, Dungeness crab by trap and market squid by pelagic seine.
North Farallon Islands SMR	Take of all living marine resources is prohibited.
Southeast Farallon Islands SMR	Take of all living marine resources is prohibited.
Southeast Farallon Islands SMCA	Recreational take of pelagic finfish ^a by hook-and-line (salmon by trolling only) and coastal pelagic species ^b except market squid. Commercial take of pelagic finfish ^a by hook-and-line (salmon with troll fishing gear only) and coastal pelagic species ^b except market squid, by pelagic seine.

^a Pelagic Finfish are defined as: northern anchovy (*Engraulis mordax*), barracudas (*Sphyraena spp.*), billfishes* (family Istiophoridae), dolphinfish (*Coryphaena hippurus*), Pacific herring (*Clupea pallasii*), jack mackerel (*Trachurus symmetricus*), Pacific mackerel (*Scomber japonicus*), salmon (*Oncorhynchus spp.*), Pacific sardine (*Sardinops sagax*), blue shark (*Prionace glauca*), salmon shark (*Lamna ditropis*), shortfin mako shark (*Isurus oxyrinchus*), thresher sharks (*Alopias spp.*), swordfish (*Xiphias gladius*), tunas (family Scombridae), and yellowtail (*Seriola lalandi*). *Marlin is not allowed for commercial take.

^b Coastal pelagic species are defined in Section 1.39 as: northern anchovy (*Engraulis mordax*), Pacific sardine (*Sardinops sagax*), Pacific mackerel (*Scomber japonicus*), jack mackerel (*Trachurus symmetricus*), and market squid (*Loligo opalescens*).

^c This area, recommended by stakeholders to become an SMP, was designated as an SMCA, and could subsequently be designated also as an SMP at the discretion of the State Park and Recreation Commission.

^d Finfish are defined in subsection 632(a)(2) as: any species of bony fish or cartilaginous fish (sharks, skates and rays). Finfish do not include amphibians, invertebrates, plants or algae. The definition of finfish provided in Section 159 does not apply to this Section.

Table 17. Habitat Representation in Alternative 2 (Proposal 2-XA).

Habitat	Area and Percentage (%) of Habitat in Each Type of MPA			
	SMR ^a	SMCA ^b	SMCA	Total
Intertidal				
Sandy or gravel beaches*	12.56 (11%)	0.22 (<1%)	1.67 (1%)	14.46 (12%)
Rocky intertidal and cliff*	29.98 (18%)	1.64 (1%)	7.14 (4%)	38.76 (23%)
Coastal marsh	0.25 (17%)	0.00 (0%)	0.21 (14%)	0.48 (31%)
Tidal Flats*	4.78 (26%)	0.00 (0%)	1.44 (10%)	6.23 (34%)
Seagrass beds (0-30 meters): Surfgrass*	12.00 (17%)	3.39 (5%)	1.44 (2%)	16.83 (24%)
Seagrass beds (0-30 meters): Eelgrass	1.43 (24%)	0.00 (0%)	2.35 (39%)	3.79 (63%)
Estuary	1.90 (10%)	0.00 (0%)	2.52 (13%)	4.42 (23%)
Soft Bottom				
0 – 30 meters*	6.36 (6%)	0.00 (0%)	1.37 (1%)	7.73 (8%)
30 – 100 meters	40.47 (10%)	0.00 (0%)	51.73 (13%)	92.19 (22%)
100 – 200 meters	N/A	N/A	N/A	N/A
>200 meters	N/A	N/A	N/A	N/A
Hard Bottom				
0 – 30 meters*	16.32 (20%)	0.00 (0%)	3.06 (4%)	19.39 (24%)
30 – 100 meters	8.07 (15%)	0.00 (0%)	6.34 (12%)	14.41 (28%)
100 – 200 meters	N/A	N/A	N/A	N/A
>200 meters	N/A	N/A	N/A	N/A
Substrate < 50 m deep				
Hard Substrate	8.65 (14%)	0.00 (0%)	4.59 (7%)	13.25 (21%)
Soft Substrate	15.86 (6%)	0.00 (0%)	10.11 (4%)	25.97 (9%)
Kelp Forest				
Average kelp (1989, 1999, 2002, 2003, 2004, 2005)*	5.02 (14%)	0.00 (0%)	0.29 (1%)	5.31 (15%)

* Habitats are measured as an area (mi²) except for those with an asterisk (*) notation. Habitats with an asterisk (*) notation are expressed in linear units (mi).

^a The SMR category groups together SMRs and SMRMAs.

^b This area, recommended by stakeholders to become an SMP, was designated as an SMCA, and could subsequently be designated also as an SMP at the discretion of the State Park and Recreation Commission.

Table 18. Special Closures in Alternative 2 (Proposal 2-XA).

Geography	Boundaries	Species Intended to Protect	Seasonality
Point Resistance	300 foot closure.	Common murre and brown pelican.	Year Round
Egg Rock (Devil's Slide)	300 foot closure.	Common murre, Brandt's cormorant, and brown pelican.	Year Round
Stormy Stack	300 foot closure.	Harbor seal, California sea lion, Common murre, Brandt's cormorant, pelagic cormorant, pigeon guillemot, Ashy storm-petrel, brown pelican.	Year Round
North Farallon Islands	300 foot closure around North Farallon Island and Isle of St. James.	Steller sea lion, common murre, pelagic cormorant, Brandt's cormorant, pigeon guillemot, western gull, and Cassin's auklet.	Year Round
Southeast Farallon Islands	300 foot closure around Southeast Farallon Island except in lee of island between and including Sugarloaf and East Landing.	Steller sea lion, Northern fur seal, Northern elephant seal, California sea lion, common murre, pelagic cormorant, Brandt's cormorant, Double-crested cormorant, pigeon guillemot, western gull, tufted puffin, Cassin's Auklet, Rhinoceros auklet, Ashy storm petrel, Leach's storm petrel, black oystercatcher, and brown pelican.	Year Round

2.3 Alternative 3 (Proposal 4)

Alternative 3 was developed by the NCCRSR known as proposal 4. Under Alternative 3, MPAs would have been designated as shown in Figure 5 and Tables 19 and 20. Proposed allowed take in MPAs would have been as described in Table 21. The representation of different habitat types would have been as described in Table 22. Special closures would have been as described in Table 23. Alternative 3 would have designated the largest number and area of MPAs.

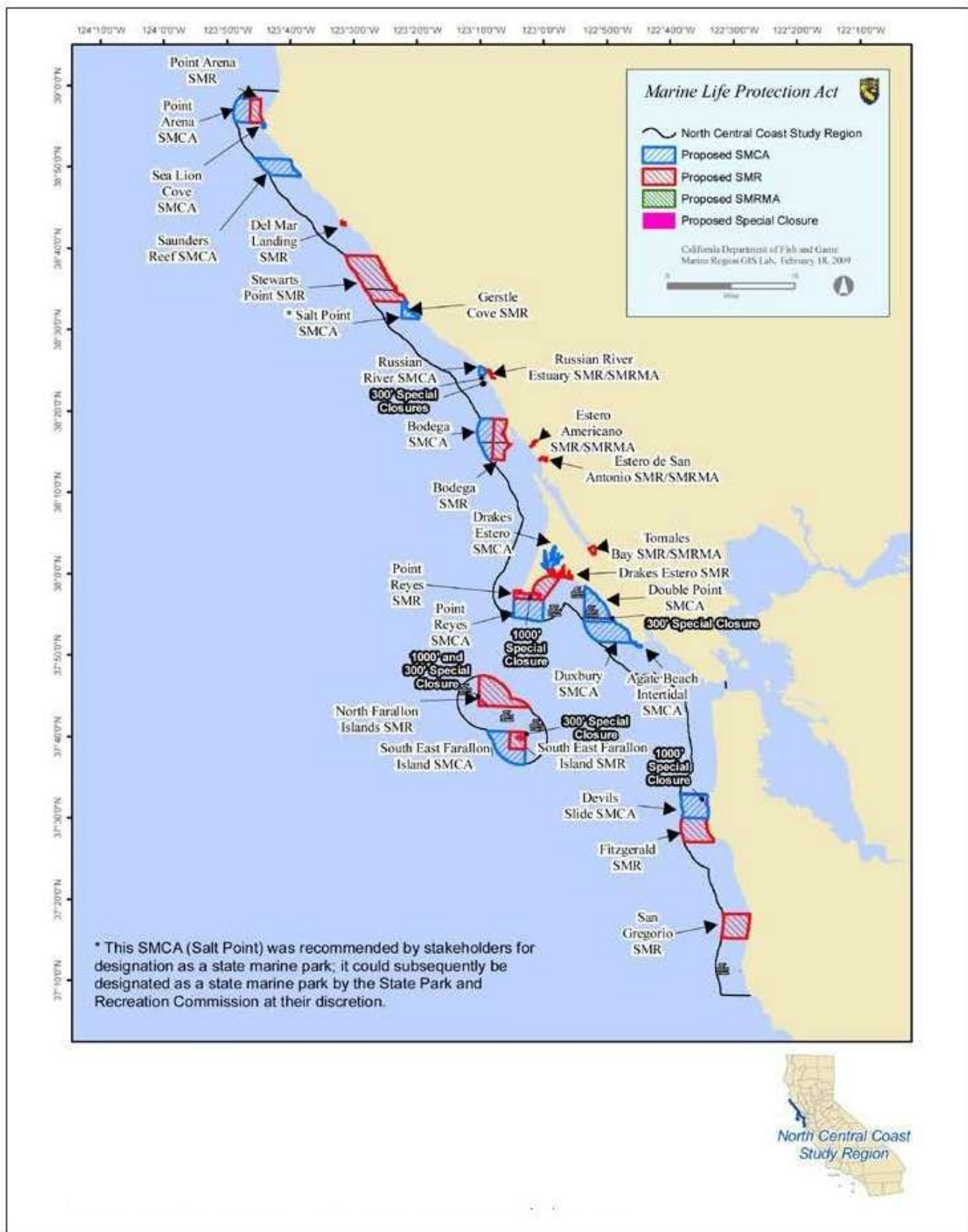


Figure 5. Map of Alternative 3 (Proposal 4).

Table 19. Overall Summary of Alternative 3 (Proposal 4).

Type of MPA	Total Proposed	Area (Square Miles)	Percent of Study Region
State Marine Reserve	15	105.0	13.8
State Marine Conservation Area*	1	2.9	0.4
State Marine Conservation Area	12	97.1	12.7
Special Closures	7	---	<1
All MPAs and SMRMA Combined	35	204.9	26.9

* This area, recommended by stakeholders to become an SMP, was designated as an SMCA, and could subsequently be designated also as an SMP at the discretion of the State Park and Recreation Commission.

Table 20. Individual MPAs in Alternative 3 (Proposal 4).

MPA Name	Size (Square Miles)	Alongshore Span (Miles)	Depth Range (Feet)
Point Arena SMR	5.05	3.4	0-175
Point Arena SMCA	7.42	3.4	153-324
Sea Lion Cove SMCA	0.22	0.7	0-39
Saunders Reef SMCA	10.50	3.0	0-276
Del Mar Landing SMCA	0.22	0.6	0-87
Stewarts Point SMR	28.52	7.6	0-298
Salt Point SMR*	2.86	2.3	0-241
Gerstle Cove SMR	0.01	0.2	0-10
Russian River Estuary SMR	0.35	1.8	0-10
Russian River SMCA	0.86	1.0	0-57
Bodega SMR	9.99	5.8	0-222
Bodega SMCA	10.49	5.8	141-267
Estero de Americano SMR	0.15	1.2	0-10
Estero de San Antonio SMR	0.09	1.0	0-10
Tomales Bay SMR	0.66	1.2	0-10
Point Reyes SMR	9.44	7.5	0-132
Point Reyes SMCA	12.14	4.2	51-217
Drakes Estero SMR	1.49	5.3	0-10
Drakes Estero SMCA	2.55	5.6	0-10

Double Point SMCA	12.29	4.9	0-139
Duxbury SMCA	15.50	3.6	0-150
Agate Beach Intertidal SMCA	0.26	1.1	0-10
Devil's Slide SMCA	11.89	3.2	0-143
Fitzgerald SMR	13.01	3.4	0-170
San Gergorio SMR	12.53	3.5	0-140
North Farallon Islands SMR	18.13	N/A	0-275
Southeast Farallon Islands SMR	5.31	N/A	0-238
Southeast Farallon Islands SMCA	12.94	N/A	130-382

* This area, recommended by stakeholders to become an SMP, was designated as an SMCA, and could subsequently be designated also as an SMP at the discretion of the State Park and Recreation Commission.

Table 21. Allowed Take for Individual MPAs in Alternative 3 (Proposal 4).

MPA Name	Proposed Take Allowed
Point Arena SMR	Take of all living marine resources is prohibited.
Point Arena SMCA	Recreational take of salmon by trolling only. Commercial take of salmon with troll fishing gear only.
Sea Lion Cove SMCA	Recreational and commercial take of invertebrates and marine aquatic plants is prohibited. Take of all other species is allowed.
Saunders Reef SMCA	Recreational take of salmon by trolling. Commercial take of salmon with troll fishing gear, and urchin.
Del Mar Landing SMR	Take of all living marine resources is prohibited.
Stewarts Point SMR	Take of all living marine resources is prohibited.
Salt Point SMCA ^a	Recreational take of finfish ^b , and abalone.
Gerstle Cove SMR	Take of all living marine resources is prohibited.
Russian River Estuary SMR (Option 1)	Take of all living marine resources is prohibited.
Russian River Estuary SMRMA (Option 2)	Take of all living marine resources is prohibited except recreational hunting of waterfowl is allowed unless otherwise restricted by hunting regulations (sections 502, 550, 551, and 552).
Russian River SMCA	Recreational take of Dungeness crab, and surf smelt by hand-held dip net or beach net from shore only. Commercial take of Dungeness crab.
Bodega SMR	Take of all living marine resources is prohibited.
Bodega SMCA	Recreational take of salmon by trolling only. Commercial take of salmon with troll fishing gear only.

Estero Americano SMR (Option 1)	Take of all living marine resources is prohibited.
Estero Americano SMRMA (Option 2)	Take of all living marine resources is prohibited except recreational hunting of waterfowl is allowed unless otherwise restricted by hunting regulations (sections 502, 550, 551, and 552).
Estero de San Antonio SMR (Option 1)	Take of all living marine resources is prohibited.
Estero de San Antonio SMRMA (Option 2)	Take of all living marine resources is prohibited except recreational hunting of waterfowl is allowed unless otherwise restricted by hunting regulations (sections 502, 550, 551, and 552).
Tomales Bay SMR (Option 1)	Take of all living marine resources is prohibited.
Tomales Bay SMRMA (Option 2)	Take of all living marine resources is prohibited except recreational hunting of waterfowl is allowed unless otherwise restricted by hunting regulations (sections 502, 550, 551, and 552).
Point Reyes SMR	Take of all living marine resources is prohibited.
Point Reyes SMCA	Recreational take of salmon by trolling, and Dungeness crab by trap. Commercial take of salmon with troll fishing gear, and Dungeness crab by trap.
Drakes Estero SMR	Take of all living marine resources is prohibited.
Drakes Estero SMCA	Commercial aquaculture of shellfish pursuant to a valid State Water Bottom Lease and permit.
Double Point SMCA	Recreational take of salmon by trolling. Commercial take of salmon with troll fishing gear.
Duxbury SMCA	Recreational take of salmon by trolling, Dungeness crab by trap, halibut, and finfish ^b by hook-and-line from shore only. Commercial take of salmon with troll fishing gear, Dungeness crab by trap, and halibut.
Agate Beach Intertidal SMCA	Recreational take of salmon by trolling, Dungeness crab by trap, halibut, and finfish ^b by hook-and-line from shore only. Commercial take of salmon with troll fishing gear, Dungeness crab by trap, and halibut.
Devil's Slide SMCA	Recreational take of salmon by trolling, Dungeness crab by trap, market squid, and coastal pelagic species ^c by hook-and-line. Commercial take of salmon with troll fishing gear, Dungeness crab by trap, market squid, and coastal pelagic species ^c by hook-and-line or pelagic seine.
Fitzgerald SMR	Take of all living marine resources is prohibited.
San Gregorio SMR	Take of all living marine resources is prohibited.
North Farallon Islands SMR	Take of all living marine resources is prohibited.
Southeast Farallon Islands SMR	Take of all living marine resources is prohibited.
Southeast Farallon Islands SMCA	Recreational take of salmon by trolling. Commercial take of salmon with troll fishing gear.

^a This area, recommended by stakeholders to become an SMP, was designated as an SMCA, and could subsequently be designated also as an SMP at the discretion of the State Park and Recreation Commission.

^b Finfish are defined in subsection 632(a)(2) as: any species of bony fish or cartilaginous fish (sharks, skates and rays). Finfish do not include amphibians, invertebrates, plants or algae. The definition of finfish provided in Section 159 does not apply to this section.

^c Coastal pelagic species are defined in Section 1.39 as: northern anchovy (*Engraulis mordax*), Pacific sardine (*Sardinops sagax*), Pacific mackerel (*Scomber japonicus*), jack mackerel (*Trachurus symmetricus*), and market squid (*Loligo opalescens*).

Table 22. Habitat Representation in Alternative 3 (Proposal 4).

Habitat	Area and Percentage (%) of Habitat in Each Type of MPA			
	SMR ^a	SMCA ^b	SMCA	Total
Intertidal				
Sandy or gravel beaches*	17.61 (15%)	0.45 (0%)	10.25 (9%)	28.31 (24%)
Rocky intertidal and cliff*	38.49 (23%)	4.35 (3%)	21.75 (13%)	64.59 (39%)
Coastal marsh	0.70 (45%)	0.00 (0%)	0.21 (14%)	0.92 (59%)
Tidal Flats*	4.93 (27%)	0.00 (0%)	1.44 (8%)	6.38 (35%)
Seagrass beds (0-30 meters): Surfgrass*	14.38 (21%)	0.00 (0%)	15.46 (22%)	29.84 (43%)
Seagrass beds (0-30 meters): Eelgrass	1.43 (24%)	0.00 (0%)	2.35 (39%)	3.79 (63%)
Estuary	2.54 (13%)	0.00 (0%)	2.52 (13%)	5.06 (26%)
Soft Bottom				
0 – 30 meters*	8.86 (9%)	0.30 (0%)	11.50 (11%)	20.67 (20%)
30 – 100 meters	56.92 (14%)	1.31 (0%)	63.57 (15%)	121.80 (29%)
100 – 200 meters	N/A	N/A	N/A	N/A
>200 meters	N/A	N/A	N/A	N/A
Hard Bottom				
0 – 30 meters*	23.98 (30%)	2.94 (4%)	4.97 (6%)	31.88 (40%)
30 – 100 meters	13.91 (27%)	0.67 (1%)	4.15 (8%)	18.74 (36%)
100 – 200 meters	N/A	N/A	N/A	N/A
>200 meters	N/A	N/A	N/A	N/A
Substrate < 50 m deep				
Hard Substrate	15.27 (25%)	0.77 (1%)	5.81 (9%)	21.85 (35%)
Soft Substrate	24.73 (9%)	0.11 (0%)	25.23 (13%)	60.07 (22%)
Kelp Forest				
Average kelp (1989, 1999, 2002, 2003, 2004, 2005)*	9.43 (27%)	3.20 (9%)	2.73 (8%)	15.37 (44%)

* Habitats are measured as an area (mi²) except for those with an asterisk (*) notation. Habitats with an asterisk (*) notation are expressed in linear units (mi).

^a The SMR category groups together SMRs and SMRMAs.

^b This area, recommended by stakeholders to become an SMP, was designated as an SMCA, and could subsequently be designated also as an SMP at the discretion of the State Park and Recreation Commission.

Table 23. Special Closures in Alternative 3 (Proposal 4).

Geography	Boundaries	Species Intended to Protect	Seasonality
Arched Rock	300 foot closure.	Brandt's cormorant, pelagic cormorant, pigeon guillemot, and western gull.	Year Round
Gull Rock	300 foot closure.	Double crested cormorant, Brandt's cormorant, pelagic cormorant, pigeon guillemot, western gull, black oystercatcher, brown pelican, harbor seal.	Year Round
Pt. Reyes Headlands	1,000 foot closure.	Common murre, pelagic cormorants, Brandt's cormorant, pigeon guillemot, western gull, rhinoceros auklet, brown pelican, elephant seal.	Year Round
Egg Rock (Devil's Slide)	1,000 foot closure (from big rock in the middle)	Common murre, Brandt's cormorant, Pigeon guillemot, pelagic cormorant, western gull, black oystercatcher, brown pelicans.	Year Round
Stormy Stack	300 foot closure.	Common murre and brown pelican.	Year Round
North Farallon Islands	1,000 foot. 300 foot closure around North Farallon Island and Isle of St. James.	Steller sea lion, common murre, pelagic cormorant, Brandt's cormorant, pigeon guillemot, western gull, and Cassin's auklet.	Year Round
Southeast Farallon Islands	300 foot closure (except Fisherman's Bay and East Landing).	Steller sea lion	Year Round

2.4 No Change Alternative (Existing MPAs)

Under the No Change Alternative, existing MPAs would have remained unchanged as shown in Figure 6 and Tables 24 and 25. Allowed take in MPAs would have remained unchanged as described in Table 26. The representation of different habitat types would have remained unchanged as described in Table 27.

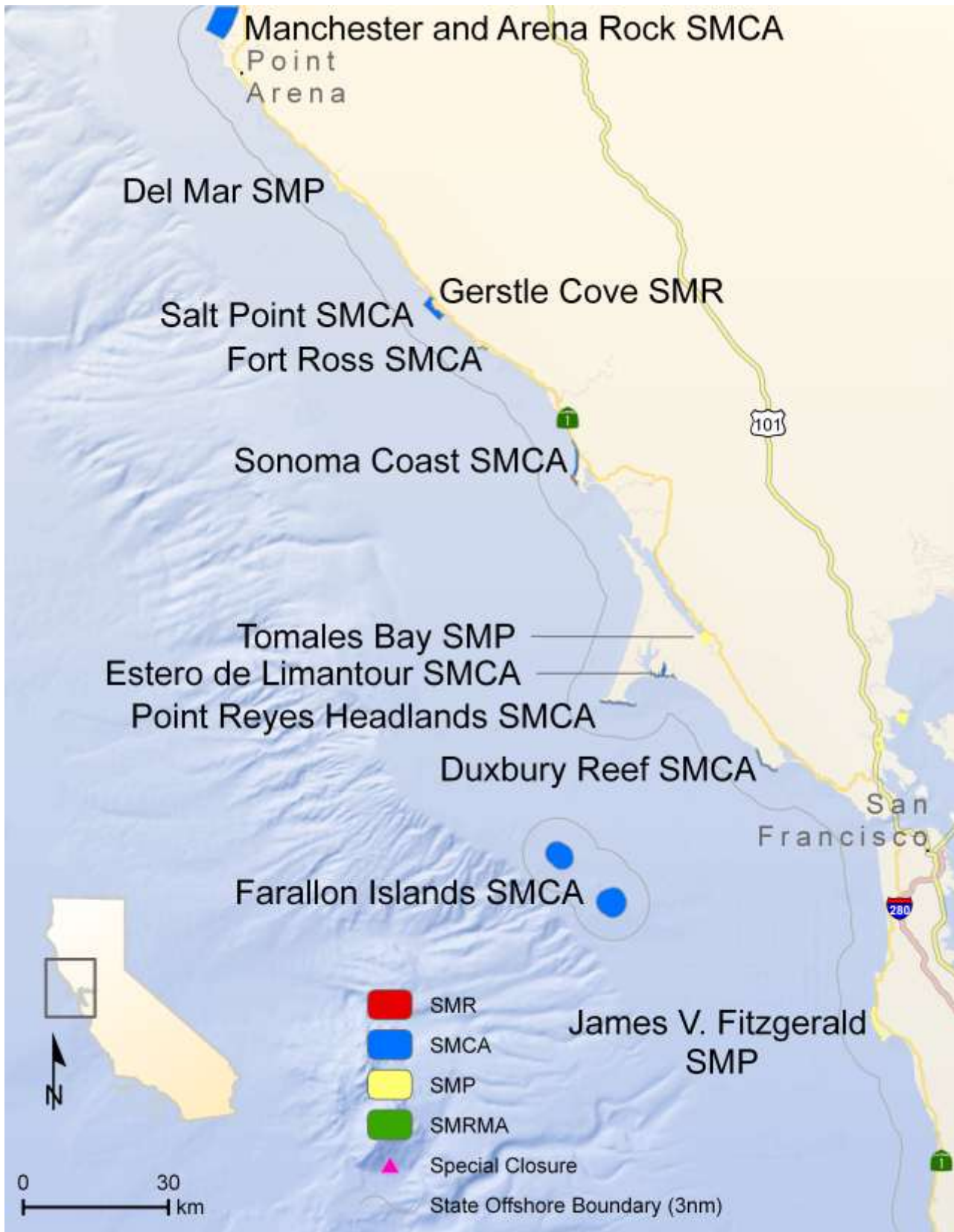


Figure 6. No Change Alternative (Existing MPAs).

Table 24. Overall Summary of No Change Alternative (Existing MPAs).

Type of MPA	Total Proposed	Area (Square Miles)	Percent of Study Region
State Marine Reserve	1	0.3	<0.1%
State Marine Park	2	0.8	0.1%
State Marine Conservation Area	10	25.7	3.4%
All MPAs Combined	13	26.8	3.5%

Table 25. Individual MPAs in No Change Alternative (Existing MPAs).

MPA Name	Size (Square Miles)	Alongshore Span (Miles)	Depth Range (Feet)
Manchester and Arena Rock SMCA	6.71	3.0	0 – 141
Del Mar Landing SMP	0.09	0.3	0 – 55
Salt Point SMCA	1.63	2.2	0 – 182
Gerstle Cove SMCA	0.01	0.1	0 – 10
Fort Ross SMCA	0.11	0.9	0 – 32
Sonoma Coast SMCA	0.91	3.3	0 – 14
Bodega SMR	0.29	1.1	0 – 30
Tomales Bay SMP	0.66	1.2	0 – 10
Point Reyes Headlands SMCA	0.82	3.1	0 – 80
Estero de Limantour SMCA	0.79	3.1	0 – 10
Duxbury Reef SMCA	0.67	3.0	0 – 10
James V Fitzgerald SMCA	0.78	3.4	0 – 31
Farallon Islands SMCA	13.34	5.1	0 – 244

Table 26. Allowed Take for Individual MPAs in No Change Alternative (Existing MPAs).

MPA Name	Take Allowed
Manchester & Arena Rock SMCA	<p>Only the following species may be taken recreationally: finfish^a, red abalone, chiones, clams, cockles, rock scallops, native oysters, crabs, lobster, ghost shrimp, sea urchins, and marine worms except that no worms may be taken in any mussel bed unless taken incidentally to the take of mussels.</p> <p>Only the following species may be taken commercially: finfish^a, crabs, ghost shrimp, jackknife clams, sea urchins, algae except giant kelp and bull kelp and worms except that no worms may be taken in any mussel bed, nor may any person pick up, remove, detach from the substrate any other organisms, or break up, move or destroy any rocks or other substrate or surfaces to which organisms are attached.</p>

Del Mar Landing SMP ^b	Take of all living marine resources is prohibited, except the recreational take of finfish ^a by hook-and-line or spear.
Salt Point SMCA	<p>Only the following species may be taken recreationally: finfish^a, red abalone, chiones, clams, cockles, rock scallops, native oysters, crabs, lobsters, ghost shrimp, sea urchins, mussels and marine worms.</p> <p>Only the following species may be taken commercially: finfish^a, crabs, ghost shrimp, jackknife clams, sea urchins, algae (except giant kelp and bull kelp), and worms.</p> <p>No person may pick-up, remove, or detach from substrate any organisms, nor break-up, move, or destroy any rocks or other substrate/surfaces to which organisms are attached.</p>
Gerstle Cove SMCA	Take of all living marine resources is prohibited except the commercial take of finfish ^a and algae except giant kelp and bull kelp.
Fort Ross SMCA	<p>Only the following species may be taken recreationally: finfish^a, red abalone, chiones, clams, cockles, rock scallops, native oysters, crabs, lobster, ghost shrimp, sea urchins, mussels and marine worms except that no worms may be taken in any mussel bed unless taken incidentally to the take of mussels.</p> <p>The commercial take of all species other than giant kelp (<i>Macrocystis pyrifera</i>) and bull kelp (<i>Nereocystis spp.</i>) is allowed.</p>
Sonoma Coast SMCA	<p>Only the following species may be taken recreationally: finfish^a, red abalone, chiones, clams, cockles, rock scallops, native oysters, crabs, lobster, ghost shrimp, sea urchins, mussels and marine worms except that no worms may be taken in any mussel bed unless taken incidentally to the take of mussels.</p> <p>The commercial take of all species other than giant kelp (<i>Macrocystis pyrifera</i>) and bull kelp (<i>Nereocystis spp.</i>) is allowed.</p>
Bodega SMR	Take of all living marine resources is prohibited.
Tomales Bay SMP ^b	Take of all living marine resources is prohibited except the recreational hook-and-line take of species other than marine aquatic plants.
Point Reyes Headlands SMCA	Take of all living marine resources is prohibited except the commercial take of finfish ^a and algae other than giant kelp (<i>Macrocystis pyrifera</i>) and bull kelp (<i>Nereocystis spp.</i>).

^a Finfish are defined in subsection 632(a)(2) as: any species of bony fish or cartilaginous fish (sharks, skates and rays). Finfish do not include amphibians, invertebrates, plants or algae. The definition of finfish provided in Section 159 does not apply to this section.

^b This area, recommended by stakeholders to become an SMP, was designated as an SMCA, and could subsequently be designated also as an SMP at the discretion of the State Park and Recreation Commission.

Table 27. Habitat Representation in No Change Alternative (Existing MPAs).

Habitat	Area and Percentage (%) of Habitat in Each Type of MPA			
	SMR ^a	SMP ^b	SMCA	Total
Intertidal				
Sandy or gravel beaches*	0.23 (0%)	0.32 (0%)	10.40 (9%)	10.95 (9%)
Rocky intertidal and cliff*	1.51 (1%)	0.45 (0%)	24.57 (15%)	26.53 (16%)
Coastal marsh	0.00 (0%)	0.44 (28%)	0.03 (2%)	0.46 (30%)

Tidal flats*	0.00 (0%)	0.15 (1%)	1.17 (6%)	1.32 (7%)
Seagrass beds (0–30 meters): Surfgrass*	1.24 (2%)	0.00 (0%)	13.91 (20%)	15.15 (22%)
Seagrass beds (0–30 meters): Eelgrass	0.00 (0%)	0.00 (0%)	0.77 (13%)	0.77 (13%)
Estuary	0.00 (0%)	0.64 (3%)	0.73 (4%)	1.36 (7%)
Soft bottom				
0–30 meters*	0.00 (0%)	0.00 (0%)	4.15 (4%)	4.15 (4%)
30–100 meters	0.00 (0%)	0.00 (0%)	8.05 (2%)	8.05 (2%)
100–200 meters	N/A	N/A	N/A	N/A
>200 meters	N/A	N/A	N/A	N/A
Hard bottom				
0–30 meters*	0.00 (0%)	0.00 (0%)	9.60 (12%)	9.60 (12%)
30–100 meters	0.00 (0%)	0.00 (0%)	6.98 (13%)	6.98 (13%)
100–200 meters	N/A	N/A	N/A	N/A
>200 meters	N/A	N/A	N/A	N/A
Hard Substrate < 50 m deep				
Hard Substrate	0.11 (0%)	0.01 (0%)	4.37 (7%)	4.48 (7%)
Soft Substrate	0.00 (0%)	0.33 (0%)	6.09 (2%)	6.42 (2%)
Kelp forest				
Average kelp (1989, 1999, 2002, 2003, 2004, 2005)*	0.00 (0%)	0.01 (0%)	3.10 (9%)	3.11 (9%)

* Habitats are measured as an area (mi²) except for those with an asterisk (*) notation. Habitats with an asterisk (*) notation are expressed in linear units (mi).

^a The SMR category groups together SMRs and SMRMAs.

^b This area, recommended by stakeholders to become an SMP, was designated as an SMCA, and could subsequently be designated also as an SMP at the discretion of the State Park and Recreation Commission.

Chapter 3: Central Coast Study Region

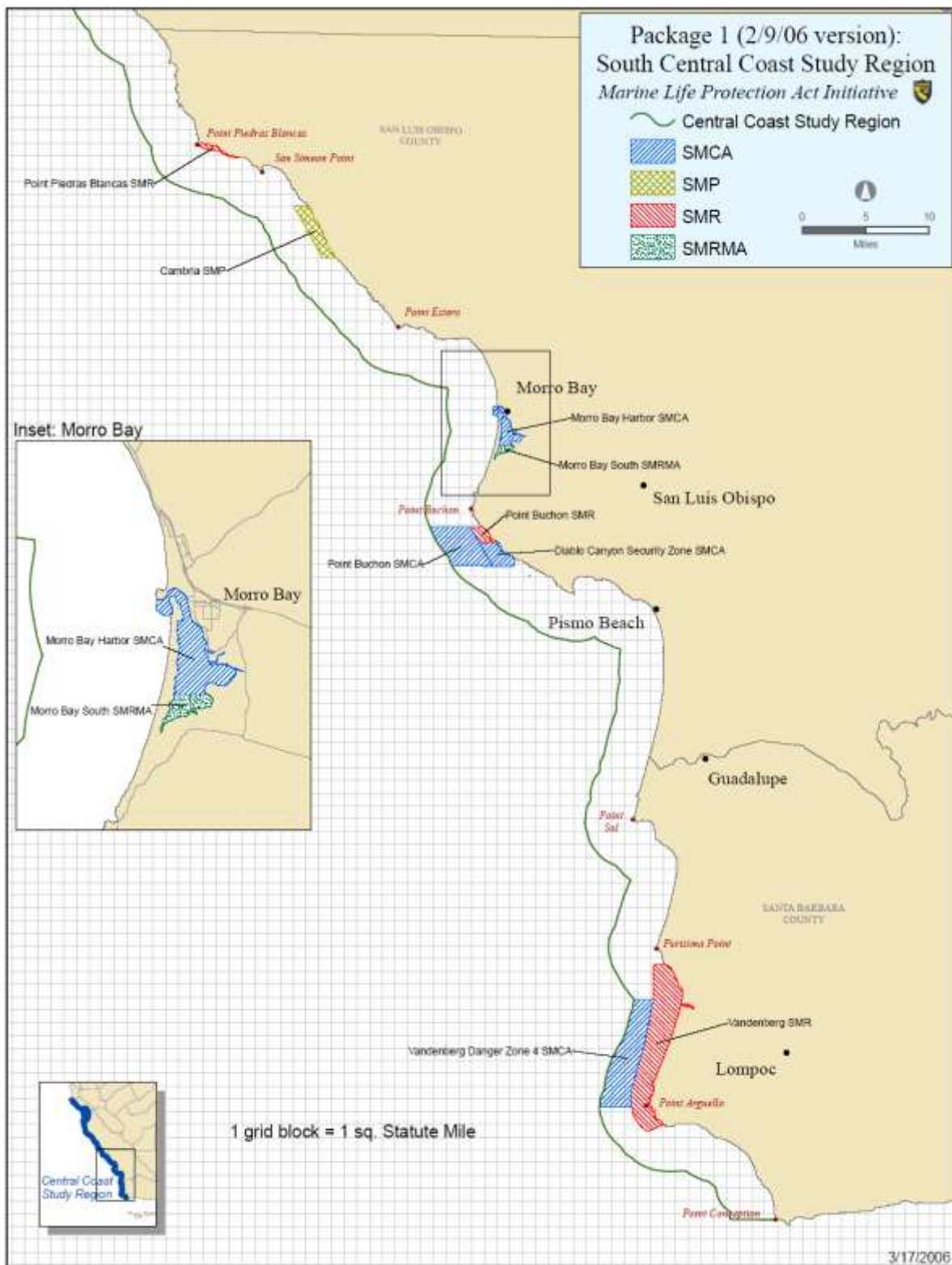
The central coast regional MPA design and siting process occurred from 2005 to 2007, and was the first of the four study regions completed through the MLPA Initiative. This region encompasses approximately 1,144 sq mi of state waters from Pigeon Point (San Mateo County) south to Point Conception (Santa Barbara County). In December 2005, the BRTF received three proposals (referred to as Packages 1, 2, and 3) developed by the Central Coast Regional Stakeholder Group (CCRSG). In March 2006, the BRTF slightly modified Packages 2 and 3 (referred to as Packages 2R and 3R), selected Package 3R as their preferred alternative, and then forwarded Package 1 (unchanged from the CCRSG proposal), 2R, and 3R to CDFW. In June 2006, CDFW developed its own preferred alternative, which was based on Package 3R and referred to as Package P. CDFW forwarded Packages 1, 2R, 3R, and P to the Commission in June 2006. In August 2006, the Commission developed its initial preferred alternative (referred to as the Proposed Regulation or Commission Preferred) using Package 3R as the basis and integrating recommendations from multiple packages, and directed CDFW to prepare a regulatory package using the Proposed Regulation as its preferred alternative. In April 2007, the Commission adopted a [regional network](#) of 13 SMRs, 14 SMCA, 1 SMCA/SMP⁴, and 1 SMRMA that were implemented September 21, 2007, covering approximately 207 sq mi of state waters or about 18% of the central coast region.

Alternative MPA proposals considered by the Commission, but not ultimately selected, during the formal regulatory process included Alternative 1 (referred to as Package 1), Alternative 2 (referred to as Package 2R), and the No Change Alternative (existing MPAs). Summaries of each alternative are described briefly below, including proposed MPA locations, allowed take, habitat representation, and other descriptive information. Alternatives were completely analyzed and compared in the CEQA environmental impact report for the regulatory process ([State Clearinghouse #2006072060](#)). Additionally, many early proposals and alternatives were discussed during the lengthy stakeholder process leading to the Commission's formal review. To access complete central coast regulatory and environmental review process documents, and their rationale, visit the [CDFW website](#) and the [Commission website](#).

3.1 Alternative 1 (Package 1)

Alternative 1 was developed by CCRSG members representing recreational and commercial fishing interests and was called Package 1 in the stakeholder process. Under Alternative 1, MPAs would have been designated as shown in Figures 7 and 8 and Tables 28 and 29. Proposed allowed take in MPAs would have been as described in Table 30. The representation of different habitats in Alternative 1 would have been as shown in Table 31. Of the various alternatives, Alternative 1 would have designated the smallest number and area of MPAs.

⁴ The California Fish and Game Commission designated Cambria SMCA, which was subsequently also adopted as Cambria SMP by the State Park and Recreation Commission (August 2010) with the same boundaries and no change to regulations.



SMCA = State Marine Conservation Area SMP = State Marine Park
 SMR = State Marine Reserve SMRMA = State Marine Recreational Management Area

Figure 8. Map of the Southern Half of Alternative 1 (Package 1).

Table 28. Overall Summary of Alternative 1 (Package 1).

Type of MPA*	Number Proposed	Area (Square Miles)	Percent of Study Region
State Marine Reserve	15	59.56	5.18
State Marine Park	1	4.41	0.38
State Marine Conservation Area	13	107.37	9.34
All MPAs Combined	29	171.33	14.90

* The proposed Morro Bay South SMRMA was included with the SMRs for the above summary and the CEQA document.

Table 29. Individual MPAs in Alternative 1 (Package 1).

MPA Name	Size (Square Miles)	Alongshore Span (Miles) ^a	Depth Range (Feet)
Año Nuevo SMR	0.53	4.7	0-7
Greyhound Rock SMCA	10.93	2.9	0-209
Greyhound Rock SMR (second analysis)	3.64	4.0	0-138
Elkhorn Slough SMR	1.59	7.0	0-10
Moro Cojo Estuary SMR	0.74	7.6	0-10
Monterey Submarine Canyon No Bottom Contact SMCA	16.93	6.5	496-4,838
Ed Ricketts SMCA	0.15	0.7	3-56
Hopkins SMR	0.31	1.0	3-71
Pacific Grove - Monterey SMCA	3.67	3.3	0-237
Carmel Pinnacles SMR	0.47	0.9	69-223
Carmel Bay SMCA	2.10	3.1	3-471
Point Lobos SMCA	11.81	5.6	228-1,858
Point Lobos SMR	3.67	4.0	0-404
Point Sur Deep Reef SMCA	10.25	7.9	162-359
Julia Pfeiffer Burns SMR	6.14	5.1	3-496
Julia Pfeiffer Burns Offshore SMR	6.18	2.6	206-1,975
Julia Pfeiffer Burns Offshore SMR	7.13	2.6	226-2,227
Big Creek SMR	2.26	2.4	0-264
Alder Creek SMR	6.51	5.4	0-192

Alder Creek SMCA	13.23	5.4	131-1,316
Point Piedras Blancas SMR	0.72	3.3	0-55
Cambria SMP	4.41	4.7	0-102
Morro Bay Harbor SMCA	2.64	7.0	0-22
Morro Bay South SMRMA	0.66	3.4	0-10
Point Buchon SMR	1.36	1.6	3-139
Point Buchon SMCA	9.72	3.5	141-377
Diablo Canyon Security Zone SMCA	3.16	2.3	0-174
Vandenberg SMR	23.83	13.3	0-96
Vandenberg Danger Zone 4 SMCA	16.60	8.6	95-235

^a Alongshore span measured as direct line from one end of the MPA to the other.

Table 30. Allowed Take for Individual MPAs in Alternative 1 (Package 1).

MPA Name	Proposed Take Allowed
Año Nuevo SMR	Take of all living marine resources is prohibited.
Greyhound Rock SMCA	Recreational and commercial take of pelagic finfish ¹ , squid, Dungeness crab, and salmon. Salmon may not be taken shallower than 25 fathoms.
Greyhound Rock SMR	Take of all living marine resources is prohibited.
Elkhorn Slough SMR	Take of all living marine resources is prohibited.
Moro Cojo Estuary SMR	Take of all living marine resources is prohibited.
Monterey Submarine Canyon No Bottom Contact SMCA	Pelagic finfish ¹ and squid.
Ed Ricketts SMCA	Recreational finfish by hook and line, and commercial take of kelp by hand north of 36° 38.83' North Latitude.
Hopkins SMR	Take of all living marine resources is prohibited.
Pacific Grove-Monterey SMCA	Recreational finfish, Dungeness crab, and squid. Commercial Dungeness crab, pelagic finfish ¹ , squid, and kelp.
Carmel Pinnacles SMR	Take of all living marine resources is prohibited.
Carmel Bay SMCA	Recreational finfish and commercial kelp and squid.
Point Lobos SMR	Take of all living marine resources is prohibited.
Point Lobos SMCA	Recreational and commercial salmon and commercial spot prawns.
Point Sur Deep Reef SMCA	Pelagic Finfish ¹
Julia Pfeiffer Burns Offshore SMR	Take of all living marine resources is prohibited.
Julia Pfeiffer Burns SMR	Take of all living marine resources is prohibited.
Julia Pfeiffer Burns Offshore SMCA	Salmon and spot prawn.
Big Creek SMR	Take of all living marine resources is prohibited.
Alder Creek SMR	Take of all living marine resources is prohibited.
Alder Creek SMCA	Pelagic Finfish ¹

MPA Name	Proposed Take Allowed
Point Piedras Blancas SMR	Take of all living marine resources is prohibited.
Cambria SMCA (SMP) ²	All recreational take.
Morro Bay Harbor SMCA	Recreational take, commercial bait fish receiving, and commercial aquaculture by permit.
Morro Bay South SMRMA	No commercial or sport take except recreational hunting of waterfowl unless otherwise prohibited.
Point Buchon SMR	Take of all living marine resources is prohibited.
Point Buchon SMCA	Recreational and commercial salmon.
Diablo Canyon Security Zone SMCA	No commercial or sport take.
Vandenberg SMR	Take of all living marine resources is prohibited.
Vandenberg Danger Zone 4 SMCA	Recreational and commercial salmon and crabs.

¹ Pelagic Finfish are defined as: northern anchovy (*Engraulis mordax*), barracudas (*Sphyraena spp.*), billfishes* (family Istiophoridae), dolphinfish (*Coryphaena hippurus*), Pacific herring (*Clupea pallasii*), jack mackerel (*Trachurus symmetricus*), Pacific mackerel (*Scomber japonicus*), salmon (*Oncorhynchus spp.*), Pacific sardine (*Sardinops sagax*), blue shark (*Prionace glauca*), salmon shark (*Lamna ditropis*), shortfin mako shark (*Isurus oxyrinchus*), thresher sharks (*Alopias spp.*), swordfish (*Xiphias gladius*), tunas (family Scombridae), and yellowtail (*Seriola lalandi*). *Marlin is not allowed for commercial take.

² This area was initially designated as a SMCA, though the regulations allowed later change to SMPs by the State Park and Recreation Commission.

Table 31. Habitat Representation in Alternative 1 (Package 1).

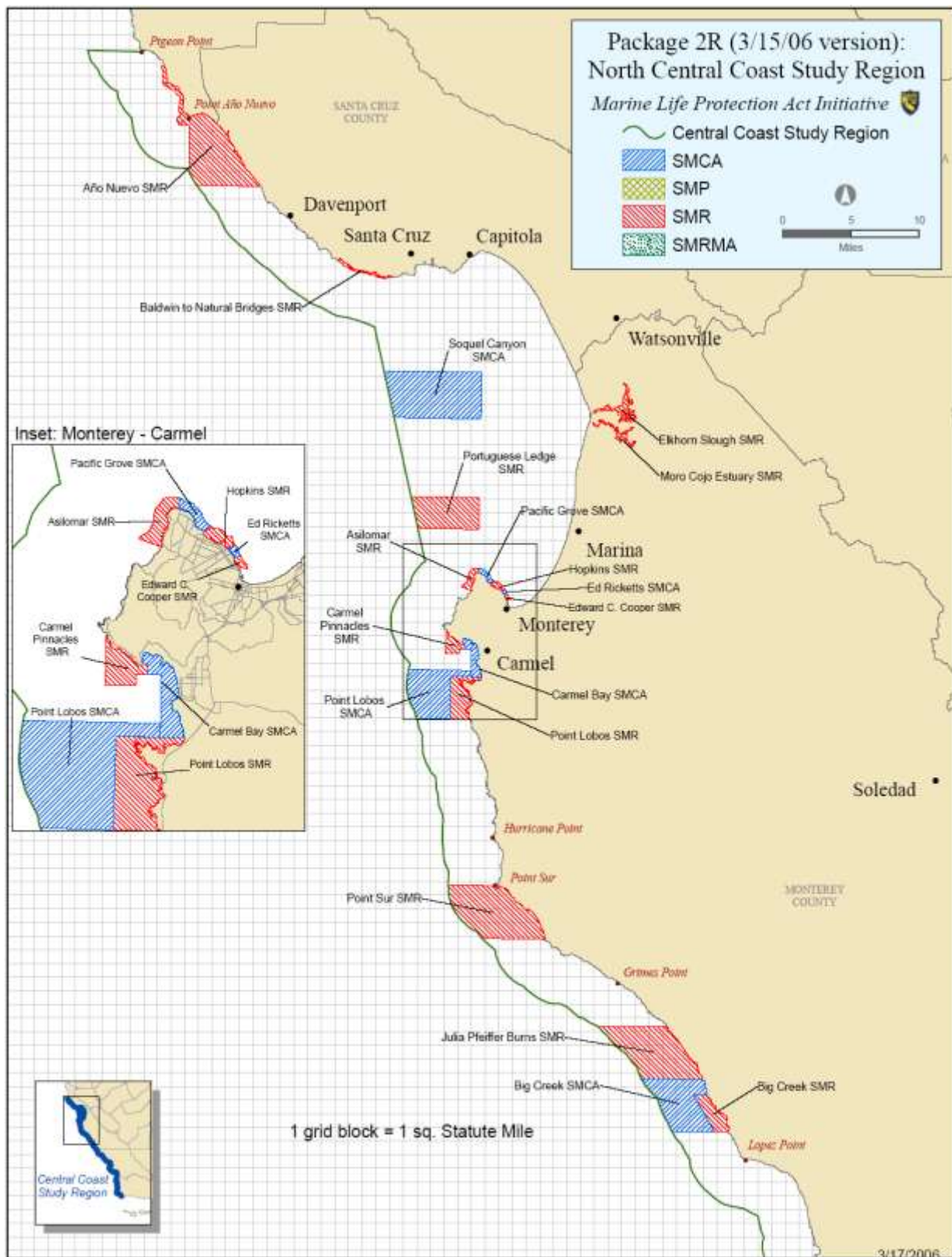
Habitat	Percentage (%) of Habitat in Each Type of MPA			
	SMR ^a	SMP	SMCA	Total
Intertidal				
Sandy or gravel beaches	14.33	1.57	5.61	21.51
Rocky intertidal and cliff	22.27	1.41	5.87	29.56
Coastal marsh	54.28	1.04	12.84	68.16
Tidal Flats	58.61	0.64	23.26	82.51
Seagrass beds (0-30 meters): Surfgrass	25.01	2.16	5.33	32.50
Seagrass beds (0-30 meters): Eelgrass	25.16	0.00	73.62	98.78
Estuary	31.43	0.20	26.85	58.49
Soft Bottom				
0 – 30 meters	10.66	1.15	2.53	14.34
30 – 100 meters	2.36	0.03	8.35	10.75
100 – 200 meters	0.81	0.00	17.88	18.69
>200 meters	5.86	0.00	24.50	30.36

Hard Bottom				
0 – 30 meters	11.79	1.55	7.20	20.54
30 – 100 meters	3.20	0.00	9.40	12.61
100 – 200 meters	0.27	0.00	11.82	12.09
>200 meters	0.99	0.00	32.06	33.05
Kelp Forest				
Average kelp (1989, 1999, 2002, 2003)	14.62	4.13	5.84	24.59
Persistent Kelp	26.74	6.29	6.92	39.96
Submarine Canyon				
0 – 30 meters	8.85	0.00	26.55	35.40
30 – 100 meters	3.39	0.00	0.90	4.30
100 – 200 meters	4.46	0.00	3.14	7.59
>200 meters	4.96	0.00	26.04	31.00

^a The Morro Bay South SMRMA was included as an SMR for the analysis.

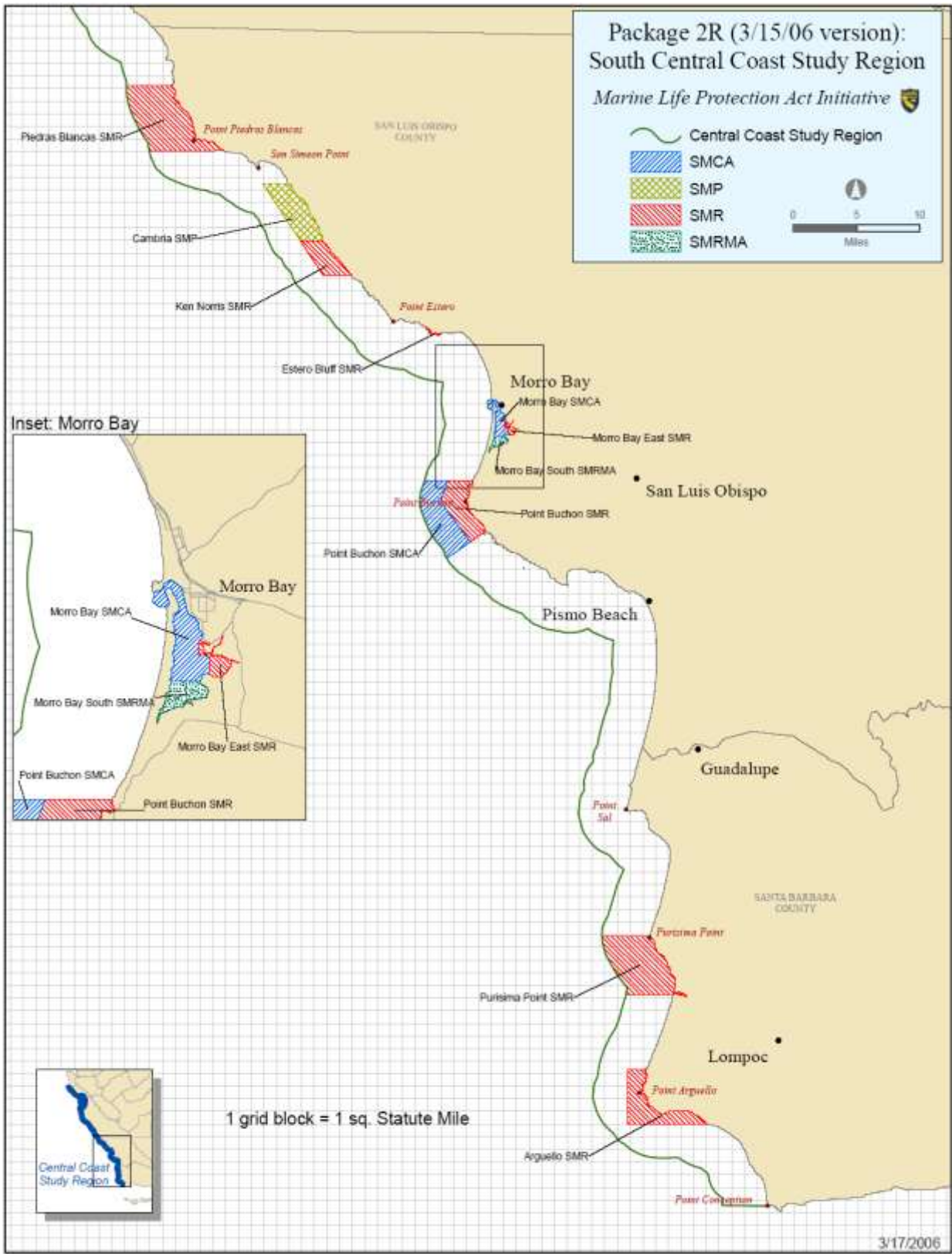
3.2 Alternative 2 (Package 2R)

Alternative 2 was developed by CCRSG members representing non-consumptive users. It was known as Package 2 and was modified as Package 2R by the BRTF. Under Alternative 2, MPAs would have been designated as shown on Figures 9 and 10 and Tables 32 and 33. Proposed allowed take in MPAs would have been as described in Table 34. The representation of different habitats in Alternative 2 would have been as shown in Table 35. Of the various alternatives, Alternative 2 would have designated the largest number and area of MPAs.



SMCA = State Marine Conservation Area SMP = State Marine Park
SMR = State Marine Reserve SMRMA = State Marine Recreational Management Area

Figure 9. Map of the Northern Half of Alternative 2 (Package 2R).



SMCA = State Marine Conservation Area SMP = State Marine Park
 SMR = State Marine Reserve SMRMA = State Marine Recreational Management Area

Figure 10. Map of the Southern Half of Alternative 2 (Package 2R).

Table 32. Overall Summary of Alternative 2 (Package 2R).

Type of MPA*	Total Proposed	Area (Square Miles)	Percent of Study Region
State Marine Reserve	21	147.68	12.84
State Marine Park	1	9.84	0.86
State Marine Conservation Area	8	63.93	5.56
All MPAs Combined	30	221.45	19.26

*The proposed Morro Bay SMRMA was included with the SMRs for the above summary and for the analysis.

Table 33. Individual MPAs in Alternative 2 (Package 2R).

MPA Name	Size (Square Miles)	Alongshore Span (Miles) ^a	Depth Range (Feet)
Año Nuevo SMR (second analysis)	18.99	11.5	0-209
Baldwin to Natural Bridges SMR	0.59	4.1	0-21
Elkhorn Slough SMR	1.56	7.0	0-10
Moro Cojo Estuary SMR	0.74	7.6	0-10
Soquel Canyon SMCA	23.41	7.8	247-2,113
Portuguese Ledge SMR	10.90	5.4	302-4,838
Edward C. Cooper SMR	0.11	0.6	4-54
Ed Ricketts SMCA	0.09	0.4	3-56
Hopkins SMR	0.35	1.0	3-71
Pacific Grove SMCA	0.41	1.2	0-59
Asilomar SMR	0.85	1.5	0-63
Carmel Pinnacles SMR	1.25	1.8	3-223
Carmel Bay SMCA	1.71	3.1	3-471
Point Lobos SMR	4.36	4.8	0-320
Point Lobos SMCA	11.28	5.2	227-2,111
Point Sur SMR	19.48	5.4	3-624
Julia Pfeiffer Burns SMR	18.03	4.8	3-2,227
Big Creek SMR	3.24	3.1	0-314
Big Creek SMCA	12.97	4.3	3-2,393
Piedras Blancas SMR	22.09	7.0	0-337
Cambria SMP	9.84	5.3	0-150

Ken Norris SMR (second analysis)	5.50	3.6	0-187
Estero Bluff SMR	0.14	1.4	0-10
Morro Bay SMCA	2.10	7.0	0-22
Morro Bay East SMR	0.40	2.4	0-10
Morro Bay SMRMA	0.79	3.4	0-10
Point Buchon SMR	8.38	4.6	0-217
Point Buchon SMCA	11.96	4.6	167-377
Purisma Point SMR	19.27	5.0	0-190
Pointn Arguello SMR	10.66	8.2	0-189

^a Alongshore span measured as a direct line from one end of the MPA to the other.

Table 34. Allowed Take for Individual MPAs in Alternative 2 (Package 2R).

MPA Name	Proposed Take Allowed
Año Nuevo SMR	Take of all living marine resources is prohibited.
Baldwin to Natural Bridges SMR	Take of all living marine resources is prohibited.
Elkhorn Slough SMR	Take of all living marine resources is prohibited.
Moro Cojo Estuary SMR	Take of all living marine resources is prohibited.
Soquel Canyon SMCA	Salmon and albacore.
Portuguese Ledge SMR	Take of all living marine resources is prohibited.
Edward C. Cooper SMR	Take of all living marine resources is prohibited.
Ed Ricketts SMCA	November 1 through the end of February, the commercial take of kelp north of 36° 36.83' N. lat. by hand only. Not more than 15 tons of kelp may be harvested from the portion of Administrative Kelp Bed 220 within the Ed Ricketts State Marine Conservation Area in the open time period.
Hopkins SMR	Take of all living marine resources is prohibited.
Pacific Grove SMCA	Finfish may be taken recreationally in the area between the seaward extension of Esplanade Street and boundary of the Hopkins State Marine Reserve by hook and line or spear. Take is prohibited by use of poke-pole gear. Take is prohibited for any competition involving two or more persons in which persons are ranked, or winners are determined, based on size, weight, number of species, type of species, or number of fish taken by means of spearfishing. Commercial take prohibited except kelp harvesting allowed by hand harvest with restrictions to limit take approximately to existing levels.
Asilomar SMR	Take of all living marine resources is prohibited.
Carmel Pinnacles SMR	Take of all living marine resources is prohibited.
Carmel Bay SMCA	Recreational finfish by hook and line or spear except poke-pole gear is prohibited. Take is prohibited for any competition involving two or more persons in which persons are ranked, or winners are determined, based on size, weight, number of species, type of species, or number of fish taken by means of spearfishing. Commercial take of kelp by hand.
Point Lobos SMR	Take of all living marine resources is prohibited.

MPA Name	Proposed Take Allowed
Point Lobos SMCA	Recreational and commercial salmon, albacore, and spot prawn.
Point Sur SMR	Take of all living marine resources is prohibited.
Julia Pfeiffer Burns SMR	Take of all living marine resources is prohibited.
Big Creek SMCA	Recreational and commercial salmon, albacore, and spot prawn deeper than 50 fathoms.
Big Creek SMR	Take of all living marine resources is prohibited.
Piedras Blancas SMR	Take of all living marine resources is prohibited.
Cambria SMCA (SMP) ¹	All recreational take.
Ken Norris SMR	Take of all living marine resources is prohibited.
Estero Bluff SMR	Take of all living marine resources is prohibited.
Morro Bay SMCA	Recreational take and commercial receiving of finfish for bait and permitted aquaculture of oysters.
Morro Bay SMRMA	No-Take. Waterfowl hunting under DFG regulations is allowed.
Morro Bay East SMR	Take of all living marine resources is prohibited.
Point Buchon SMR	Take of all living marine resources is prohibited.
Point Buchon SMCA	Recreational and commercial salmon and albacore.
Purisima Point SMR	Take of all living marine resources is prohibited.
Point Arguello SMR	Take of all living marine resources is prohibited.

¹ This area was initially designated as a SMCA, though the regulations allowed later change to SMPs by the State Park and Recreation Commission.

Table 35. Habitat Representation in Alternative 2 (Package 2R).

Habitat	Percentage (%) of Habitat in Each Type of MPA			
	SMR^a	SMP	SMCA	Total
Intertidal				
Sandy or gravel beaches	23.46	2.34	2.39	28.19
Rocky intertidal and cliff	33.94	1.42	2.68	38.05
Coastal marsh	57.16	1.29	4.05	62.50
Tidal Flats	64.24	0.64	18.83	83.70
Seagrass beds (0-30 meters): Surfgrass	35.27	2.52	3.90	41.68
Seagrass beds (0-30 meters): Eelgrass	32.62	0.00	67.10	99.71
Estuary	36.72	0.10	21.36	58.19
Soft Bottom				
0 – 30 meters	13.34	1.79	1.17	16.30
30 – 100 meters	10.96	0.67	4.38	16.00
100 – 200 meters	8.97	0.00	14.37	23.34
>200 meters	11.20	0.00	15.46	26.66

Hard Bottom				
0 – 30 meters	28.02	1.71	1.54	31.26
30 – 100 meters	19.41	0.02	9.58	29.01
100 – 200 meters	11.48	0.00	26.37	37.85
>200 meters	9.47	0.00	12.87	22.34
Kelp Forest				
Average kelp (1989, 1999, 2002, 2003)	30.60	4.94	4.83	40.36
Persistent Kelp	29.58	9.75	7.55	46.88
Submarine Canyon				
0 – 30 meters	1.77	0.00	35.40	37.17
30 – 100 meters	4.07	0.00	8.82	12.89
100 – 200 meters	3.80	0.00	17.00	20.79
>200 meters	11.50	0.00	14.12	25.62

^a The proposed Morro Bay SMRMA was included with the SMR totals.

3.3 No Change Alternative (Existing MPAs)

Under the No Change Alternative, existing MPAs and a special closure would have remained unchanged as shown in Figure 11 and Tables 36 and 37. Allowed take in MPAs and a special closure would have remained unchanged as described in Table 38. The representation of different habitat types would have remained unchanged as described in Table 39.

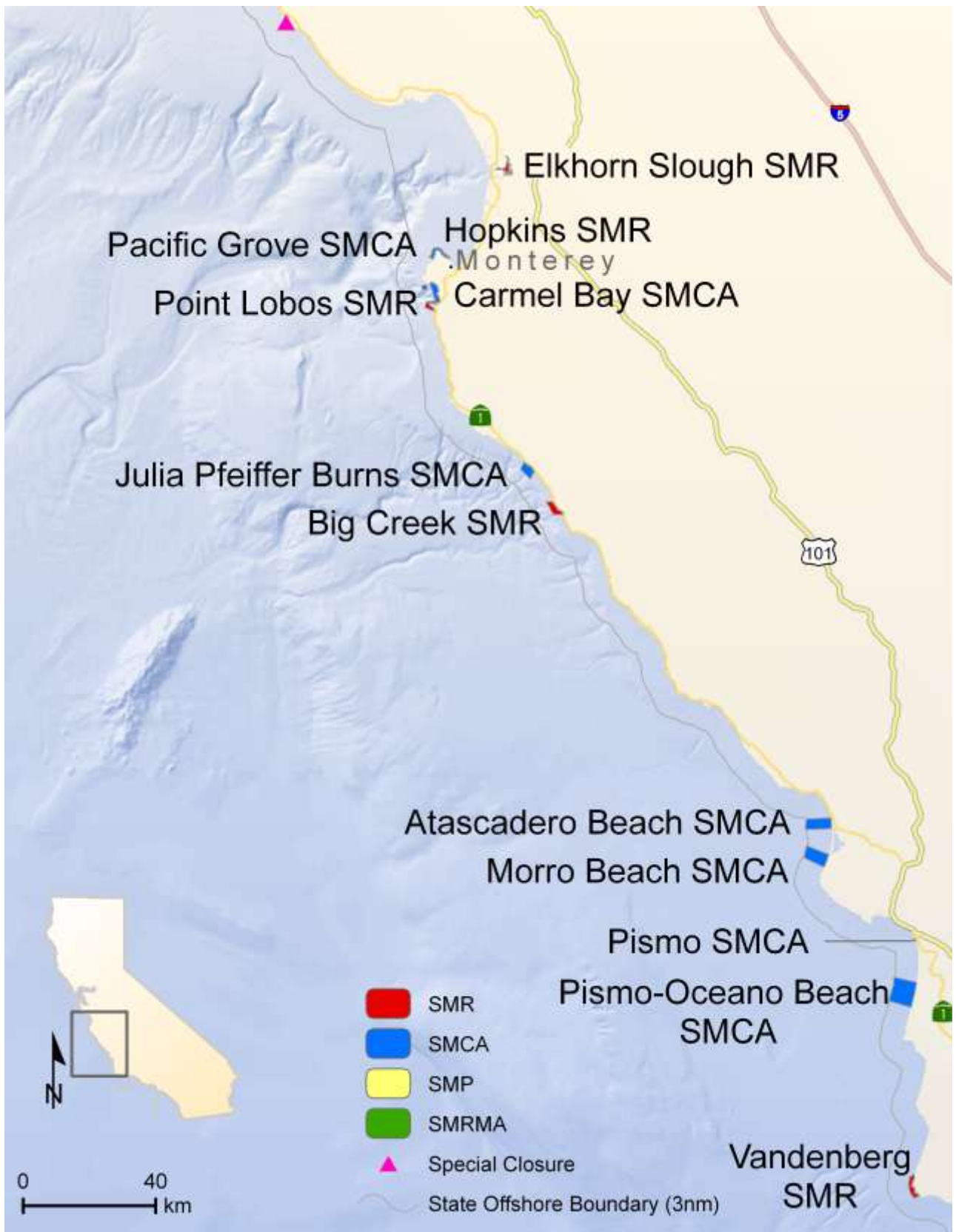


Figure 11. No Change Alternative (Existing MPAs).

Table 36. Overall Summary of No Change Alternative (Existing MPAs).

Type of MPA	Total Existing	Area (Square Miles)	Percent of Study Region
State Marine Conservation Area	7	33.50	2.91
State Marine Reserve	5	7.45	0.65
Special Closure	1	2.20	0.19
All MPAs Combined	13	43.15	3.75

Table 37. Individual MPAs and Special Closure in No Change Alternative (Existing MPAs).

MPA Name	Size (Square Miles)	Along-Shore Span (Miles)	Depth Range (Feet)
Special Closure: Año Nuevo Invertebrate Area	2.20	5.52	0–55
Elkhorn Slough SMR	1.36	3.16	0–10
Hopkins SMR	0.15	0.52	3–71
Pacific Grove SMCA	1.54	3.45	0–65
Carmel Bay SMCA	2.80	3.11	0–471
Point Lobos SMR	1.19	1.96	0–203
Julia Pfeiffer Burns SMCA	2.65	2.07	3–628
Big Creek SMR	2.27	2.19	0–264
Atascadero Beach SMCA	6.33	1.61	0–234
Morro Beach SMCA	6.82	1.96	0–232
Pismo SMCA	0.08	0.38	3–17
Pismo-Oceano SMCA	13.29	3.80	0–133
Vandenberg SMR	2.48	3.68	3–65

Table 38. Allowed Take for Individual MPAs and Special Closure in No Change Alternative (Existing MPAs).

MPA Name	Take Allowed
Año Nuevo Special Closure	All except invertebrates between November 30 and April 30.
Elkhorn Slough SMR	No commercial or sport take.
Hopkins SMR	No commercial or sport take.
Pacific Grove SMCA	Recreational finfish, and invertebrates other than mollusks or crustaceans. Commercial sardines, mackerel, anchovies, squid, and herring by ring net, lampara net, or bait net.
Carmel Bay SMCA	Recreational finfish by hook-and-line or spear and commercial kelp under specific conditions.
Point Lobos SMR	No commercial or sport take.

Julia Pfeiffer Burns SMCA	Recreational finfish, chiones, clams, cockles, rock scallops, native oysters, crabs, lobsters, ghost shrimp, sea urchins, mussels and marine worms (except no worms may be taken in any mussel bed unless taken incidentally to the take of mussels). Commercial finfish, crabs, ghost shrimp, jackknife clams, sea urchins, squid, kelp and worms (except no worms may be taken in any mussel bed, nor may any person pick up, remove, detach from the substrata any other organisms, or break up, move or destroy any rocks or other substrata or surfaces to which organisms are attached).
Big Creek SMR	No commercial or sport take.
Atascadero Beach SMCA	All except clams.
Morro Beach SMCA	All except clams and commercial take of giant kelp and bull kelp.
Pismo SMCA	All finfish and the commercial take of algae other than giant and bull kelp.
Pismo-Oceano Beach SMCA	All except clams and commercial take of giant kelp and bull kelp.
Vandenberg SMR	No commercial or sport take.

Table 39. Habitat Representation for Individual MPAs and Special Closure (SC) in No Change Alternative (Existing MPAs).

Habitat	Percentage (%) of Habitat in Each Type of MPA			
	SC	SMCA	SMR	Total
Intertidal				
Sandy or gravel beaches	2.71	6.45	2.36	11.51
Rocky intertidal and cliff	1.30	6.07	7.99	15.36
Coastal marsh	0.00	0.00	25.08	25.08
Tidal flats	0.00	0.00	39.02	39.02
Seagrass beds (0–30 meters): Surfgrass	2.85	7.34	6.05	16.23
Seagrass beds (0–30 meters): Eelgrass	0.00	0.00	2.80	2.80
Estuary	0.00	0.61	13.84	14.45
Soft Bottom				
0–30 meters	0.70	5.48	1.67	7.85
30–100 meters	0.00	2.63	0.23	2.86
100–200 meters	0.00	0.03	0.00	0.03
>200 meters	0.00	0.00	0.00	0.00
Hard Bottom				
0–30 meters	0.45	2.88	1.41	4.74
30–100 meters	0.00	1.79	0.69	2.48
100–200 meters	0.00	0.00	0.00	0.00
>200 meters	0.00	0.00	0.00	0.00
Kelp Forest				
Average kelp (1989, 1999, 2002, 2003)	0.02	6.23	3.35	9.61

Persistent kelp	0.00	6.61	6.29	12.90
Submarine Canyon				
0–30 meters	0.00	31.86	0.00	31.86
30–100 meters	0.00	1.58	0.00	1.58
100–200 meters	0.00	0.17	0.00	0.17
>200 meters	0.00	0.00	0.00	0.00

Chapter 4: South Coast Study Region

The south coast regional MPA design and siting process occurred from 2008 to 2012, and was the third of the four study regions completed through the MLPA Initiative. This region encompasses approximately 2,351 sq mi of state waters from Point Conception (Santa Barbara County) south to the California/Mexico border, including state waters around the Channel Islands. In October 2009, the BRTF received three MPA proposals developed by the South Coast Regional Stakeholder Group (SCRSG). In November 2009, the BRTF developed their own integrated preferred alternative proposal (referred to as the BRTF IPA) by incorporating, and in some cases modifying, proposed MPAs from all three SCRSG proposals. Also in November 2009, the BRTF resolved several outstanding feasibility issues the CDFW had identified in the three SCRSG proposals when developing the BRTF IPA. The BRTF forwarded all three SCRSG proposals, and recommended the Commission select the BRTF IPA as the regulatory preferred alternative. The Commission received the BRTF recommendations in December 2009, and directed CDFW to prepare a regulatory package using the BRTF IPA as its preferred alternative. In December 2010, the Commission adopted a [regional network](#) (including 13 previously established by the Commission in 2003 at the northern Channel Islands) of 19 SMRs, 21 SMCAs, 10 no-take SMCAs, and 2 special closures that were implemented January 1, 2012, covering approximately 355 sq mi of state waters or about 15% of the south coast region.

Alternative MPA proposals considered by the Commission, but not ultimately selected, during the formal regulatory process included Alternative 1 (referred to as Proposal 1R), Alternative 2 (referred to as Proposal 2R), Alternative 3 (referred to as Proposal 3R), and the No Change Alternative (existing MPAs). Summaries of each alternative are described briefly below, including proposed MPA locations, allowed take, habitat representation, and other descriptive information. Alternatives were completely analyzed and compared in the CEQA environmental impact report for the regulatory process ([State Clearinghouse #2010071012](#)). Additionally, many early proposals and alternatives were discussed during the lengthy stakeholder process leading to the Commission's formal review. The 13 existing MPAs that lie within the Channel Islands National Marine Sanctuary were retained without change and included in all MPA proposals. To access complete south coast regulatory and environmental review process documents, and their rationale, visit the [CDFW website](#) and the [Commission website](#).

4.1 Alternative 1 (Proposal 1R)

Alternative 1 was developed by the SCRSG Work Group 1 as Round 3 Revised SCRSG Proposal 1 and known as Proposal 1R. The SCRSG Work Group 1 was tasked with developing an MPA proposal that met the SAT's guidelines while achieving a high level of cross-interest support. Under Alternative 1, MPAs would have been designated as shown in Figure 12 and Tables 40 and 41. Proposed allowed take in MPAs would have been as described in Table 42. The representation of different habitat types would have been as described in Table 43.



Figure 12. Map of Alternative 1 (Proposal 1R).

Table 40. Overall Summary of Alternative 1 (Proposal 1R).

Type of MPA	Number of MPAs	Area (Square Miles)	Percent of Study Region
State Marine Reserve	33	307.76	13.1
State Marine Recreational Management Area	0	0.00	0.0
State Marine Park	1	1.53	0.1
State Marine Conservation Area	16	51.58	2.2
Undesignated*	2	36.68	1.6
All MPAs Combined	52	397.54	16.9

*The “Undesignated” were pending military closures.

Table 41. Individual MPAs in Alternative 1 (Proposal 1R).

MPA Name	Size (Square Miles)	Alongshore Span (Miles)	Depth Range^a (Feet)
Richardson Rock SMR ^b	40.69	6.3	95-558
Judith Rock SMR ^b	4.55	1.2	0-487
Harris Point SMR ^b	25.35	5.4	0-557
South Point SMR ^b	13.05	3.5	0-1,071
Carrington Point SMR ^b	12.76	4.0	0-211
Skunk Point SMR ^b	1.39	2.2	0-83
Painted Cave SMCA ^b	1.78	1.9	0-291
Gull Island SMR ^b	19.91	4.8	0-2,205
Scorpion SMR ^b	9.62	2.6	0-769
Footprint SMR ^b	7.05	4.7	171-1,656
Anacapa Island SMCA ^b	7.30	2.0	0-490
Anacapa Island SMR ^b	11.54	3.1	0-709
Santa Barbara Island SMR ^b	12.76	1.0	0-1,655
Point Conception SMR	22.51	5.3	0-489
Kashtayit SMP	1.53	1.4	0-160
Mikiw SMCA	2.58	1.9	0-162
Helo SMR	11.78	3.1	0-701
Devereux Lagoon SMR	0.09	N/A	N/A
Goleta Slough SMR	0.25	N/A	N/A
Carpinteria Salt Marsh SMR	0.28	N/A	N/A
Sumo SMCA	16.72	4.5	0-2,023
Lisigsihi SMR	6.54	1.7	0-1,976
Palos Verdes SMR	17.20	4.0	0-2,640
Point Fermin SMCA	0.16	0.7	0-29
Povuu'nga Komiik SMR	0.72	N/A	N/A
Upper Newport Bay SMCA	1.09	N/A	N/A
Umuqpat SMCA	3.18	3.5	0-242
Laguna SMR	10.45	3.1	0-1,433
Dana Point SMCA	4.15	5.0	0-152
Batiquitos Lagoon SMR	0.48	N/A	N/A

San Elijo Lagoon SMR	0.44	N/A	N/A
Del Mar SMR	13.30	3.8	0-1,095
San Dieguito Lagoon SMR	0.52	N/A	N/A
Los Penasquitos Marsh SMR	0.35	N/A	N/A
La Jolla Cove SMR	0.77	1.1	0-214
La Jolla South SMR	2.11	0.9	0-144
La Jolla South SMCA	2.79	1.0	0-176
Famosa Slough SMR	0.11	N/A	N/A
Ocean Beach SMR	9.00	2.5	0-336
Ocean Beach Pier SMCA	0.08	0.1	0-35
Cabrillo SMR	0.38	1.3	0-30
Tijuana River Mouth SMCA	1.91	1.6	0-55
Blue Cavern SMR	10.28	2.3	0-2,616
Emerald Bay SMCA	0.22	1.3	0-108
Cat Harbor SMCA	0.25	0.5	0-186
Long Point SMR	3.54	3.0	0-988
Farnsworth SMCA	9.28	2.6	0-1,909
Casino Point SMCA	0.01	0.1	0-73
Lover's Cove SMCA	0.06	0.4	0-188
Begg Rock SMR	37.96	6.9	219-374
San Clemente Pending Military Closure 1	17.44	3.9	0-1,682
San Clemente Pending Military Closure 2	19.24	5.4	0-3,938

^a Comprehensive bathymetric data for all estuaries is not available. Though bathymetric data do exist in portions of some estuaries, depth ranges are not provided for estuarine MPAs for consistency in evaluations.

^b State MPAs around the Northern Channel Islands are to be part of all proposals, as directed by the California Fish and Game Commission.

Table 42. Allowed Take for Individual MPAs in Alternative 1 (Proposal 1R).

MPA Name	Proposed Take Allowed
Point Conception SMR	Take of all living marine resources is prohibited.
Kashtayit SMP	Recreational take of all finfish, marine invertebrates except for rock scallops and mussels, giant kelp by hand harvest.
Mikiw SMCA	Recreational take of finfish by spearfishing. Commercial take of giant kelp by mechanical harvest.
Helo SMR	Take of all living marine resources is prohibited.
Devereux Lagoon SMR	Take of all living marine resources is prohibited.
Goleta Slough SMR	Take of all living marine resources is prohibited.
Carpinteria Salt Marsh SMR	Take of all living marine resources is prohibited.
Sumo SMCA	Recreational take of pelagic finfish, Pacific bonito, and white seabass by spearfishing. Commercial take of coastal pelagic finfish by pelagic round haul nets, market squid by pelagic round haul nets; market squid by dip net; and swordfish by harpoon.
Lisiqsihi SMR	Take of all living marine resources is prohibited.
Palos Verdes SMR	Take of all living marine resources is prohibited.
Point Fermin SMCA	Recreational take of lobster by diving; shorefishing (any target) by hook and line; finfish by hook and line; and finfish by spearfishing. Commercial take of lobster by trap, and urchin by diving.
Povuu'nga Komiik SMR	Take of all living marine resources is prohibited.
Upper Newport Bay SMCA	Recreational take of catch and release from shore (any target) by hook and line (single barbless hooks and artificial
Umuqpat SMCA	Recreational take of lobster by hoop net; lobster by diving; urchin by diving; finfish by hook and line; and finfish by spearfishing. Commercial take of lobster by trap; urchin by diving; coastal pelagic finfish by pelagic round haul nets; and market squid by pelagic round haul nets. Allow recreational take of all finfish except sheephead.
Laguna SMR	Take of all living marine resources is prohibited.
Dana Point SMCA	Recreational take of lobster by hoop net; lobster by diving; urchin by diving; finfish by hook and line; and finfish by spearfishing. Commercial take of lobster by trap; urchin by diving; coastal pelagic finfish by pelagic round haul nets; and market squid by pelagic round haul nets. Allow recreational take of all finfish except sheephead.
Batiquitos Lagoon SMR	Take of all living marine resources is prohibited.
San Elijo Lagoon SMR	Take of all living marine resources is prohibited.
Del Mar SMR	Take of all living marine resources is prohibited.
San Dieguito Lagoon SMR	Take of all living marine resources is prohibited.
Los Penasquitos Marsh SMR	Take of all living marine resources is prohibited.
La Jolla Cove SMR	Take of all living marine resources is prohibited.
La Jolla South SMR	Take of all living marine resources is prohibited.

La Jolla South SMCA	Recreational take of kelp bass and barred sand bass by hook and line; lobster by diving; pelagic finfish by hook and line; urchin by diving; Pacific bonito by hook and line; white seabass by spearfishing; and white seabass by hook and line. Commercial take of lobster by trap, and urchin by diving.
Famosa Slough SMR	Take of all living marine resources is prohibited.
Ocean Beach SMR	Take of all living marine resources is prohibited.
Ocean Beach Pier SMCA	Recreational take of pier fishing (any target) by hook and line.
Cabrillo SMR	Take of all living marine resources is prohibited.
Tijuana River Mouth SMCA	Recreational take of coastal pelagic finfish by dip net, and pier fishing (any target) by hook and line. Commercial take of coastal pelagic finfish by pelagic round haul nets.
Blue Cavern SMR	Take of all living marine resources is prohibited.
Emerald Bay SMCA	Recreational take of all finfish.
Cat Harbor SMCA	Recreational take of lobster by hoop net; lobster by diving; urchin by diving; finfish by hook and line; finfish by spearfishing; and squid by jigging. Commercial take of sea cucumber by diving; lobster by trap; and urchin by diving. Mariculture for white sea bass and yellow tail.
Long Point SMR	Take of all living marine resources is prohibited.
Farnsworth SMCA	Recreational take of pelagic finfish by spearfishing; Pacific bonito by spearfishing; coastal pelagic finfish by dip net; jumbo squid by hook and line; striped marlin by hook and line; and market squid by dip net. Commercial take of coastal pelagic finfish by pelagic round haul nets; coastal pelagic finfish by dip net; jumbo squid by hook and line; market squid by pelagic round haul nets; market squid by dip net; and swordfish by harpoon.
Casino Point SMCA	Recreational take of urchin by diving.
Lover's Cove SMCA	Recreational take of pier fishing (any target) by hook and line.
Begg Rock SMR	Take of all living marine resources is prohibited.
San Clemente Pending Military Closure 1	Managed and enforced by the U.S. Navy as a federal Safety Zone, this area will be restricted to military training only. Due to access restrictions resulting from the Safety Zone, the marine environments will not be exposed to any take other than that resulting from military training operations.
San Clemente Pending Military Closure 2	Managed and enforced by the U.S. Navy as a federal Safety Zone, this area will be restricted to military training only. Due to access restrictions resulting from the Safety Zone, the marine environments will not be exposed to any take other than that resulting from military training operations.
Richardson Rock SMR	Take of all living marine resources is prohibited.
Judith Rock SMR	Take of all living marine resources is prohibited.
Harris Point SMR	Take of all living marine resources is prohibited.
South Point SMR	Take of all living marine resources is prohibited.
Carrington Point SMR	Take of all living marine resources is prohibited.
Skunk Point SMR	Take of all living marine resources is prohibited.

Painted Cave SMCA	Recreational take of lobster by hoop net, lobster by diving, and pelagic finfish by spearfishing. Commercial take of lobster by trap.
Gull Island SMR	Take of all living marine resources is prohibited.
Scorpion SMR	Take of all living marine resources is prohibited.
Footprint SMR	Take of all living marine resources is prohibited.
Anacapa Island SMCA	Recreational take of lobster by hoop net, lobster by diving, and pelagic finfish by spearfishing. Commercial take of lobster by trap.
Anacapa Island SMR	Take of all living marine resources is prohibited.
Santa Barbara Island SMR	Take of all living marine resources is prohibited.

Table 43. Habitat Representation in Alternative 1 (Proposal 1R).

Habitat	Area and Percentage (%) of Habitat in Each Type of MPA					
	SMR	SMRMA	SMP	SMCA	Undesignated	Total
Intertidal						
Sandy or gravel beach*	30.75 (8%)	0.00 (0%)	0.43 (<1%)	17.37 (5%)	6.04 (2%)	54.58 (14%)
Rocky shores*	50.64 (18%)	0.00 (0%)	0.97 (<1%)	16.65 (6%)	1.82 (1%)	70.06 (25%)
Hardened shores*	2.89 (1%)	0.00 (0%)	0.02 (<1%)	0.99 (<1%)	0.11 (<1%)	4.01 (1%)
Coastal marsh*	14.49 (24%)	0.00 (0%)	0.00 (0%)	7.24 (12%)	0.00 (0%)	21.73 (37%)
Coastal marsh	1.78 (29%)	0.00 (0%)	0.00 (0%)	0.74 (12%)	0.00 (0%)	2.51 (41%)
Tidal flats*	2.28 (8%)	0.00 (0%)	0.00 (0%)	2.30 (8%)	0.00 (0%)	4.59 (16%)
Seagrass						
Surfgrass*	33.50 (15%)	0.00 (0%)	0.80 (<1%)	12.24 (6%)	2.74 (1%)	49.28 (22%)
Eelgrass	0.19 (5%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.19 (5%)
Estuarine						
Estuary	3.23 (7%)	0.00 (0%)	0.00 (0%)	1.09 (3%)	0.00 (0%)	4.33 (10%)
Soft Bottom						
0 – 30 meters	25.85 (6%)	0.00 (0%)	1.02 (<1%)	9.05 (2%)	0.01 (<1%)	35.93 (8%)
0 – 30 meters proxy* ^a	38.83 (11%)	0.00 (0%)	1.43 (<1%)	17.87 (5%)	1.30 (<1%)	59.44 (16%)
30 – 100 meters	106.77 (16%)	0.00 (0%)	0.15 (<1%)	21.00 (3%)	0.96 (<1%)	128.87 (19%)
100 – 200 meters	37.81 (24%)	0.00 (0%)	0.00 (0%)	3.30 (2%)	0.00 (0%)	41.11 (26%)
>200 meters	28.25 (12%)	0.00 (0%)	0.00 (0%)	7.52 (3%)	0.00 (0%)	35.77 (15%)
Hard Bottom						
0 – 30 meters	12.46 (11%)	0.00 (0%)	0.08 (<1%)	4.44 (4%)	1.79 (2%)	18.76 (17%)

0 – 30 meters proxy ^{*,a}	24.97 (13%)	0.00 (0%)	0.00 (0%)	9.07 (5%)	7.02 (4%)	41.05 (21%)
30 – 100 meters	9.41 (20%)	0.00 (0%)	0.00 (0%)	0.89 (2%)	1.07 (2%)	11.38 (24%)
100 – 200 meters	0.90 (23%)	0.00 (0%)	0.00 (0%)	0.01 (<1%)	0.00 (0%)	0.91 (23%)
>200 meters	0.87 (40%)	0.00 (0%)	0.00 (0%)	0.04 (2%)	0.00 (0%)	0.91 (42%)
Unknown						
0 – 30 meters	3.67 (2%)	0.00 (0%)	0.28 (<1%)	2.36 (2%)	0.46 (<1%)	6.77 (4%)
30 – 100 meters	31.44 (15%)	0.00 (0%)	0.00 (0%)	1.30 (1%)	5.89 (3%)	38.63 (18%)
100 – 200 meters	21.40 (19%)	0.00 (0%)	0.00 (0%)	0.52 (<1%)	6.42 (6%)	28.34 (25%)
>200 meters	25.39 (13%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	20.05 (10%)	45.45 (22%)
Kelp						
Maximum Kelp*	41.67 (12%)	0.00 (0%)	1.08 (<1%)	12.10 (4%)	8.43 (3%)	63.28 (19%)
Kelp Persistence*	20.01 (11%)	0.00 (0%)	0.00 (0%)	5.96 (3%)	7.02 (4%)	32.99 (18%)

* Habitats are measured as an area (mi²) except for those with an asterisk (*) notation. Habitats with an asterisk (*) notation are expressed in linear units (mi).

^a There is limited fine scale data for nearshore habitat, shallower than 10-20 meters depth, in the south coast study region. A proxy for this area was created using a line parallel to the coast and classifying the substrate as either hard or soft substrate depending on the dominant habitat type in that area based on available data.

4.2 Alternative 2 (Proposal 2R)

Alternative 2 was developed by the SCRSG Work Group 2 as Round 3 Revised SCRSG Proposal 2 and known as Proposal 2R. SCRSG Work Group 2 intended their proposals to meet design guidelines while balancing them with socioeconomic impacts. Under Alternative 2, MPAs would have been designated as shown in Figure 13 and Tables 44 and 45. Proposed allowed take in MPAs would have been as described in Table 46. The representation of different habitat types would have been as described in Table 47.



Figure 13. Map of Alternative 2 (Proposal 2R).

Table 44. Overall Summary for Alternative 2 (Proposal 2R).

Type of MPA	Number of MPAs	Area (Square Miles)	Percent of Study Region
State Marine Reserve	25	282.77	12.0
State Marine Recreational Management Area	0	0.00	0.0
State Marine Park	0	0.00	0.0
State Marine Conservation Area	12	58.82	2.5
Undesignated*	2	36.68	1.6
All MPAs Combined	39	378.27	16.1

* The "Undesignated" are the pending military closures.

Table 45. Individual MPAs in Alternative 2 (Proposal 2R).

MPA Name	Size (Square Miles)	Alongshore Span (Miles)	Depth Range^a (Feet)
Richardson Rock SMR ^b	40.69	6.3	95-558
Judith Rock SMR ^b	4.55	1.2	0-487
Harris Point SMR ^b	25.35	5.4	0-557
South Point SMR ^b	13.05	3.5	0-1,071
Carrington Point SMR ^b	12.76	4.0	0-211
Skunk Point SMR ^b	1.39	2.2	0-83
Painted Cave SMCA ^b	1.78	1.9	0-291
Gull Island SMR ^b	19.91	4.8	0-2,205
Scorpion SMR ^b	9.62	2.6	0-769
Footprint SMR ^b	7.05	4.7	171-1,656
Anacapa Island SMCA ^b	7.30	2.0	0-490
Anacapa Island SMR ^b	11.54	3.1	0-709
Santa Barbara Island SMR ^b	12.76	1.0	0-1,655
Point Conception SMR	26.11	6.2	0-489
Campus Point SMR	10.36	2.9	0-748
Goleta Slough SMR	0.25	N/A	N/A
Point Dume SMCA	19.96	5.3	0-2,203
Point Vicente SMR	15.12	3.7	0-2,640
Abalone Cove SMCA	4.75	1.2	0-2,181
Bolsa Chica SMCA	0.72	N/A	N/A
Upper Newport Bay SMCA	1.28	N/A	N/A
Laguna North SMCA	2.23	4.8	0-125
Laguna SMR	9.18	2.1	0-1,801
Laguna South SMCA	1.43	6.6	0-58
Del Mar SMR	12.78	3.6	0-1,057
San Dieguito Lagoon SMR	0.52	N/A	N/A
La Jolla SMR	0.77	1.1	0-214
Famosa Slough SMR	0.03	N/A	N/A
Sunset Cliffs SMR	9.27	2.6	0-336
Ocean Beach Pier SMCA	0.15	0.2	0-28

Cabrillo SMR	0.38	1.3	0-30
Bird Rock SMCA	8.97	2.3	75-2,616
Blue Cavern SMR	1.34	2.3	0-691
Farnsworth SMCA	10.18	3.0	125-3,499
Casino Point SMCA	0.01	0.1	0-73
Lover's Cove SMCA	0.06	0.4	0-188
Begg Rock SMR	37.96	6.9	219-374
San Clemente Pending Military Closure 1	17.44	3.9	0-1,682
San Clemente Pending Military Closure 2	19.24	5.4	0-3,938

^a Comprehensive bathymetric data for all estuaries is not available. Though bathymetric data do exist in portions of some estuaries, depth ranges are not provided for estuarine MPAs for consistency in evaluations.

^b State MPAs around the Northern Channel Islands are to be part of all proposals, as directed by the California Fish and Game Commission.

Table 46. Allowed Take for Individual MPAs in Alternative 2 (Proposal 2R).

MPA Name	Proposed Take Allowed
Point Conception SMR	Take of all living marine resources is prohibited.
Campus Point SMR	Take of all living marine resources is prohibited.
Goleta Slough SMR	Take of all living marine resources is prohibited.
Point Dume SMCA	Recreational take of pelagic finfish by spearfishing; Pacific bonito by spearfishing; white seabass by spearfishing; coastal pelagic finfish by dip net; jumbo squid by hook and line; and market squid by dip net. Commercial take of Pacific bonito by pelagic round haul nets; coastal pelagic finfish by pelagic round haul nets; coastal pelagic finfish by dip net; jumbo squid by hook and line; market squid by pelagic round haul nets; market squid by dip net; and swordfish by harpoon.
Point Vicente SMR	Take of all living marine resources is prohibited.
Abalone Cove SMCA	Recreational take of pelagic finfish by spearfishing; Pacific bonito by spearfishing; white seabass by spearfishing; coastal pelagic finfish by dip net; jumbo squid by hook and line; and market squid by dip net. Commercial take of Pacific bonito by pelagic round haul nets; coastal pelagic finfish by pelagic round haul nets; coastal pelagic finfish by dip net; jumbo squid by hook and line; market squid by pelagic round haul nets; market squid by dip net; and swordfish by harpoon.
Bolsa Chica SMCA	Recreational take of shore fishing (any target) by hook and line.
Upper Newport Bay SMCA	Recreational take of shore fishing (any target) by hook and line, and finfish by hook and line.

Laguna North SMCA	Recreational take of lobster by hoop net; lobster by diving; rock crab by hoop net; finfish by hook and line; and finfish by spearfishing. Commercial take of sea cucumber by diving; urchin by diving; rock crab by trap; and finfish by hook and line. Allows commercial nearshore trap of finfish and incidental take of kellet's whelks.
Laguna SMR	Take of all living marine resources is prohibited.
Laguna South SMCA	Recreational take of lobster by hoop net; lobster by diving; rock crab by hoop net; finfish by hook and line; and finfish by spearfishing. Commercial take of sea cucumber by diving; lobster by trap; urchin by diving; rock crab by trap; and finfish by hook and line. Allows commercial nearshore trap of finfish and kellet whelks.
Del Mar SMR	Take of all living marine resources is prohibited.
San Dieguito Lagoon SMR	Take of all living marine resources is prohibited.
La Jolla SMR	Take of all living marine resources is prohibited.
Famosa Slough SMR	Take of all living marine resources is prohibited.
Sunset Cliffs SMR	Take of all living marine resources is prohibited.
Ocean Beach SMCA	Recreational take of pier fishing (any target) by hook and line; pier fishing (any target) by hoop net; and pier fishing (any target) by dip net. Specifically allows pier fishing from Ocean Beach pier.
Cabrillo SMR	Take of all living marine resources is prohibited.
Bird Rock SMCA	Recreational take of pelagic finfish by hook and line; pelagic finfish by spearfishing; Pacific bonito by spearfishing; white seabass by spearfishing; coastal pelagic finfish by dip net; jumbo squid by hook and line; and market squid by dip net. Commercial take of pelagic finfish by hook and line; coastal pelagic finfish by dip net; jumbo squid by hook and line; market squid by dip net; and swordfish by harpoon.
Blue Cavern SMR	Take of all living marine resources is prohibited.
Farnsworth SMCA	Recreational take of pelagic finfish by hook and line; pelagic finfish by spearfishing; Pacific bonito by hook and line; Pacific bonito by spearfishing; white seabass by hook and line; white seabass by spearfishing; coastal pelagic finfish by dip net; jumbo squid by hook and line; and market squid by dip net. Commercial take of pelagic finfish by hook and line; Pacific bonito by hook and line; Pacific bonito by pelagic round haul nets; white seabass by hook and line; coastal pelagic finfish by pelagic round haul nets; coastal pelagic finfish by dip net; jumbo squid by hook and line; market squid by pelagic round haul nets; market squid by dip net; and swordfish by harpoon.
Casino Point SMR	Take of all living marine resources is prohibited.
Lover's Cove SMCA	Recreational take of pier fishing (any target) by hook and line. Commercial take of giant kelp by hand harvest, and finfish by hook and line.
Begg Rock SMR	Take of all living marine resources is prohibited.

San Clemente Pending Military Closure 1	Managed and enforced by the U.S. Navy as a federal Safety Zone, this area will be restricted to military training only. Due to access restrictions resulting from the Safety Zone, the marine environments will not be exposed to any take other than that resulting from military training operations.
San Clemente Pending Military Closure 2	Managed and enforced by the U.S. Navy as a federal Safety Zone, this area will be restricted to military training only. Due to access restrictions resulting from the Safety Zone, the marine environments will not be exposed to any take other than that resulting from military training operations.
Richardson Rock SMR	Take of all living marine resources is prohibited.
Judith Rock SMR	Take of all living marine resources is prohibited.
Harris Point SMR	Take of all living marine resources is prohibited.
South Point SMR	Take of all living marine resources is prohibited.
Carrington Point SMR	Take of all living marine resources is prohibited.
Skunk Point SMR	Take of all living marine resources is prohibited.
Painted Cave SMCA	Recreational take of lobster by hoop net, lobster by diving, and pelagic finfish by spearfishing. Commercial take of lobster by trap.
Gull Island SMR	Take of all living marine resources is prohibited.
Scorpion SMR	Take of all living marine resources is prohibited.
Footprint SMR	Take of all living marine resources is prohibited.
Anacapa Island SMCA	Recreational take of lobster by hoop net, lobster by diving, and pelagic finfish by spearfishing. Commercial take of lobster by trap.
Anacapa Island SMR	Take of all living marine resources is prohibited.
Santa Barbara Island SMR	Take of all living marine resources is prohibited.

Table 47. Habitat Representation in Alternative 2 (Proposal 2R).

Habitat	Area and Percentage (%) of Habitat in Each Type of MPA					
	SMR	SMRMA	SMP	SMCA	Undesignated	Total
Intertidal						
Sandy or gravel beach*	24.70 (7%)	0.00 (0%)	0.00 (0%)	15.01 (4%)	6.04 (2%)	45.75 (12%)
Rocky shores*	44.08 (16%)	0.00 (0%)	0.00 (0%)	13.79 (5%)	1.82 (1%)	59.69 (21%)
Hardened shores*	0.77 (<1%)	0.00 (0%)	0.00 (0%)	3.17 (1%)	0.11 (<1%)	4.05 (1%)
Coastal marsh*	3.50 (6%)	0.00 (0%)	0.00 (0%)	10.88 (18%)	0.00 (0%)	14.38 (24%)
Coastal marsh	0.36 (6%)	0.00 (0%)	0.00 (0%)	1.36 (21%)	0.00 (0%)	1.61 (27%)
Tidal flats*	1.22 (4%)	0.00 (0%)	0.00 (0%)	4.45 (15%)	0.00 (0%)	5.67 (20%)
Seagrass						
Surfgrass*	28.25 (13%)	0.00 (0%)	0.00 (0%)	12.36 (6%)	2.74 (1%)	43.35 (20%)
Eelgrass	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)

Estuarine						
Estuary	0.80 (2%)	0.00 (0%)	0.00 (0%)	2.01 (5%)	0.00 (0%)	2.80 (6%)
Soft Bottom						
0 – 30 meters	24.76 (6%)	0.00 (0%)	0.00 (0%)	4.95 (1%)	0.01 (<1%)	29.72 (7%)
0 – 30 meters proxy ^{*,a}	32.58 (9%)	0.00 (0%)	0.00 (0%)	16.92 (5%)	1.30 (<1%)	50.81 (14%)
30 – 100 meters	101.49 (15%)	0.00 (0%)	0.00 (0%)	18.60 (3%)	0.96 (<1%)	121.04 (18%)
100 – 200 meters	34.43 (22%)	0.00 (0%)	0.00 (0%)	5.17 (3%)	0.00 (0%)	39.60 (25%)
>200 meters	19.71 (8%)	0.00 (0%)	0.00 (0%)	21.33 (9%)	0.00 (0%)	41.04 (18%)
Hard Bottom						
0 – 30 meters	10.21 (9%)	0.00 (0%)	0.00 (0%)	1.06 (1%)	1.79 (2%)	13.06 (12%)
0 – 30 meters proxy ^{*,a}	21.80 (11%)	0.00 (0%)	0.00 (0%)	3.53 (2%)	7.02 (4%)	32.35 (17%)
30 – 100 meters	8.98 (19%)	0.00 (0%)	0.00 (0%)	0.61 (1%)	1.07 (2%)	10.65 (22%)
100 – 200 meters	0.86 (22%)	0.00 (0%)	0.00 (0%)	0.02 (<1%)	0.00 (0%)	0.88 (23%)
>200 meters	0.04 (2%)	0.00 (0%)	0.00 (0%)	0.34 (16%)	0.00 (0%)	0.39 (18%)
Unknown						
0 – 30 meters	3.14 (2%)	0.00 (0%)	0.00 (0%)	2.21 (1%)	0.46 (<1%)	5.81 (4%)
30 – 100 meters	31.51 (15%)	0.00 (0%)	0.00 (0%)	1.32 (1%)	5.89 (3%)	38.72 (18%)
100 – 200 meters	21.60 (19%)	0.00 (0%)	0.00 (0%)	0.52 (<1%)	6.42 (6%)	28.55 (25%)
>200 meters	24.93 (12%)	0.00 (0%)	0.00 (0%)	0.60 (<1%)	20.05 (10%)	45.59 (23%)
Kelp						
Maximum Kelp*	35.40 (11%)	0.00 (0%)	0.00 (0%)	4.57 (1%)	8.43 (3%)	48.40 (14%)
Kelp Persistence*	18.28 (10%)	0.00 (0%)	0.00 (0%)	1.64 (1%)	7.02 (4%)	26.94 (15%)

* Habitats are measured as an area (mi²) except for those with an asterisk (*) notation. Habitats with an asterisk (*) notation are expressed in linear units (mi).

^a There is limited fine scale data for nearshore habitat, shallower than 10-20 meters depth, in the south coast study region. A proxy for this area was created using a line parallel to the coast and classifying the substrate as either hard or soft substrate depending on the dominant habitat type in that area based on available data.

4.3 Alternative 3 (Proposal 3R)

Alternative 3 was developed by the SCRSG Work Group 3 as Round 3 Revised SCRSG Proposal 3 and known as Proposal 3R. SCRSG Work Group 3 intended to achieve preferred SAT science guidelines as requested by the BRTF. Under Alternative 3, MPAs would have been designated as shown in Figure 14 and Tables 48 and 49. Proposed allowed take in

MPAs would have been as described in Table 50. The representation of different habitat types would have been as described in Table 51.



Figure 14. Alternative 3 (Proposal 3R).

Table 48. Overall Summary of Alternative 3 (Proposal 3R).

Type of MPA	Number of MPAs	Area (Square Miles)	Percent of Study Region
State Marine Reserve	30	291.10	12.4
State Marine Recreational Management Area	1	1.85	0.1
State Marine Park	0	0.00	0.0
State Marine Conservation Area	9	57.85	2.5
Undesignated*	3	61.87	2.6
All MPAs Combined	43	412.67	17.6

* The "Undesignated" are the pending military closures.

Table 49. Individual MPAs in Alternative 3 (Proposal 3R).

MPA Name	Size (Square Miles)	Alongshore Span (Miles)^b	Depth Range^a (Feet)
Richardson Rock SMR ^b	40.69	6.3	95-558
Judith Rock SMR ^b	4.55	1.2	0-487
Harris Point SMR ^b	25.35	5.4	0-557
South Point SMR ^b	13.05	3.5	0-1,071
Carrington Point SMR ^b	12.76	4.0	0-211
Skunk Point SMR ^b	1.39	2.2	0-83
Painted Cave SMCA ^b	1.78	1.9	0-291
Gull Island SMR ^b	19.91	4.8	0-2,205
Scorpion SMR ^b	9.62	2.6	0-769
Footprint SMR ^b	7.05	4.7	171-1,656
Anacapa Island SMCA ^b	7.30	2.0	0-490
Anacapa Island SMR ^b	11.54	3.1	0-709
Santa Barbara Island SMR ^b	12.76	1.0	0-1,655
Point Conception SMR	29.41	7.5	0-489
Naples SMR	2.57	1.9	0-162
UCSB SMR	10.42	2.9	0-748
Goleta Slough SMR	0.25	N/A	N/A
Mishopsno SMCA	14.86	3.7	0-140
Mugu Lagoon SMRMA	1.85	N/A	N/A
Lachusa SMCA	14.06	3.7	0-2,018
Point Dume SMCA	11.28	2.7	0-2,203
Palos Verdes SMR	16.33	5.9	0-2,239
Bolsa Chica SMCA	0.72	N/A	N/A
Upper Newport Bay SMCA	1.10	N/A	N/A
Newport Coast SMCA	2.37	4.1	0-136
Laguna Beach SMR	15.16	4.1	0-1,635
Dana Point SMCA	2.35	2.8	0-125
Batiquitos Lagoon SMR	0.67	N/A	N/A
Swami's SMCA	9.67	2.7	0-979

San Elijo Lagoon SMR	0.44	N/A	N/A
San Dieguito Lagoon SMR	0.52	N/A	N/A
San Diego-Scripps Coastal SMCA	1.41	1.1	0-366
Matlahuayl SMR	1.10	1.2	0-331
Cabrillo SMR	0.43	1.8	0-30
Tijuana River Mouth SMCA	4.04	3.4	0-55
North Catalina SMR	14.05	3.9	0-2,035
Blue Cavern SMR	1.85	2.3	0-854
Long Point SMR	1.67	2.0	0-749
Farnsworth SMCA	14.45	7.5	0-2,495
San Nicolas Alpha Area Military Closure	25.20	6.3	0-288
San Clemente Pending Military Closure 1	17.44	3.9	0-1,682
San Clemente Pending Military Closure 2	19.24	5.4	0-3,938

^a Comprehensive bathymetric data for all estuaries is not available. Though bathymetric data do exist in portions of some estuaries, depth ranges are not provided for estuarine MPAs for consistency in evaluations.

^b State MPAs around the Northern Channel Islands are to be part of all proposals, as directed by the California Fish and Game Commission.

Table 50. Allowed Take for Individual MPAs in Alternative 3 (Proposal 3R).

MPA Name	Proposed Take Allowed
Point Conception SMR	Take of all living marine resources is prohibited.
Naples SMR	Take of all living marine resources is prohibited.
UCSB SMR	Take of all living marine resources is prohibited.
Goleta Slough SMR	Take of all living marine resources is prohibited.
Mishopsno SMCA	Commercial take of coastal pelagic finfish by pelagic round haul nets.
Mugu Lagoon SMRMA	All commercial and recreational take is prohibited except current allowed waterfowl hunting.
Lachusa SMCA	Recreational take of pelagic finfish by spearfishing; Pacific bonito by spearfishing; white seabass by spearfishing; coastal pelagic finfish by dip net; and market squid by dip net. Commercial take of swordfish by harpoon.
Point Dume SMR	Take of all living marine resources is prohibited.
Palos Verdes SMR	Take of all living marine resources is prohibited.
Bolsa Chica SMR	Take of all living marine resources is prohibited.
Upper Newport Bay SMR	Take of all living marine resources is prohibited.

Newport Coast SMCA	Commercial and recreational take of sheephead, rockfish, rays, sharks, marine plants and invertebrates is prohibited, except the recreational take of lobster and urchin is allowed; the commercial take of lobster including incidental catch taken under the authority of a lobster permit (current allowed incidental catch includes FGC 8250.5(b) crab [other than Dungeness], Kellet's whelk, and octopus); and urchin is allowed. The take of species not mentioned above and allowed under general take regulations is allowed, however, when fishing from the Newport Bay East Jetty the take of all species allowed under general take regulations is allowed.
Laguna Beach SMR	Take of all living marine resources is prohibited.
Dana Point SMCA	Commercial and recreational take of sheephead, rockfish, rays, sharks, marine plants and invertebrates is prohibited, except the recreational take of lobster and urchin is allowed; the commercial take of lobster including incidental catch taken under the authority of a lobster permit (current allowed incidental catch includes FGC 8250.5(b) crab [other than Dungeness], Kellet's whelk, and octopus); and urchin is allowed. The take of species not mentioned above and allowed under general take regulations is allowed.
Batiquitos Lagoon SMR	Take of all living marine resources is prohibited.
Swami's SMCA	Recreational take of pelagic finfish by spearfishing.
San Elijo Lagoon SMR	Take of all living marine resources is prohibited.
San Dieguito Lagoon SMR	Take of all living marine resources is prohibited.
San Diego-Scripps Coastal SMCA	Recreational take of coastal pelagic finfish by hook and line. Purpose is to allow the taking of bait fish by hook and line in the Scripps Pier shadows where they congregate. This location is a primary kayak fishermen's bait source for La Jolla fishing trips.
Matlahuayl SMR	Take of all living marine resources is prohibited.
South La Jolla SMR	Take of all living marine resources is prohibited.
Cabrillo SMR	Take of all living marine resources is prohibited.
Tijuana River Mouth SMCA	Recreational take of pier fishing (any target) by hook and line; pier fishing (any target) by hoop net; and pier fishing (any target) by dip net.
North Catalina SMR	Take of all living marine resources is prohibited.
Blue Cavern SMR	Take of all living marine resources is prohibited.
Long Point SMR	Take of all living marine resources is prohibited.
Farnsworth SMR	Take of all living marine resources is prohibited.
San Nicolas Alpha Area Military Closure	Take of all living marine resources is prohibited.
San Clemente Pending Military Closure 1	Managed and enforced by the U.S. Navy as a federal Safety Zone, this area will be restricted to military training only. Due to access restrictions resulting from the Safety Zone, the marine environments will not be exposed to any take other than that resulting from military training operations.

San Clemente Pending Military Closure 2	Managed and enforced by the U.S. Navy as a federal Safety Zone, this area will be restricted to military training only. Due to access restrictions resulting from the Safety Zone, the marine environments will not be exposed to any take other than that resulting from military training operations.
Richardson Rock SMR	Take of all living marine resources is prohibited.
Judith Rock SMR	Take of all living marine resources is prohibited.
Harris Point SMR	Take of all living marine resources is prohibited.
South Point SMR	Take of all living marine resources is prohibited.
Carrington Point SMR	Take of all living marine resources is prohibited.
Skunk Point SMR	Take of all living marine resources is prohibited.
Painted Cave SMCA	Recreational take of lobster by hoop net, lobster by diving, and pelagic finfish by spearfishing. Commercial take of lobster by trap.
Gull Island SMR	Take of all living marine resources is prohibited.
Scorpion SMR	Take of all living marine resources is prohibited.
Footprint SMR	Take of all living marine resources is prohibited.
Anacapa Island SMCA	Recreational take of lobster by hoop net, lobster by diving, and pelagic finfish by spearfishing. Commercial take of lobster by trap.
Anacapa Island SMR	Take of all living marine resources is prohibited.
Santa Barbara Island SMR	Take of all living marine resources is prohibited.

Table 51. Habitat Representation in Alternative 3 (Proposal 3R).

Habitat	Area and Percentage (%) of Habitat in Each Type of MPA					
	SMR	SMRMA	SMP	SMCA	Undesignated	Total
Intertidal						
Sandy or gravel beach*	40.47 (11%)	1.00 (<1%)	0.00 (0%)	20.40 (5%)	7.43 (2%)	69.30 (18%)
Rocky shores*	58.33 (21%)	0.00 (0%)	0.00 (0%)	12.80 (5%)	5.39 (2%)	76.53 (27%)
Hardened shores*	1.30 (<1%)	0.05 (<1%)	0.00 (0%)	0.95 (<1%)	0.11 (<1%)	2.42 (1%)
Coastal marsh*	17.46 (29%)	9.36 (16%)	0.00 (0%)	0.01 (<1%)	0.00 (0%)	26.83 (45%)
Coastal marsh	1.93 (32%)	1.09 (18%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	3.02 (50%)
Tidal flats*	4.13 (14%)	0.90 (3%)	0.00 (0%)	0.03 (<1%)	0.00 (0%)	5.05 (18%)
Seagrass						
Surfgrass*	41.25 (19%)	0.00 (0%)	0.00 (0%)	13.64 (6%)	5.47 (2%)	60.36 (27%)
Eelgrass	0.21 (5%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	0.21 (5%)
Estuarine						
Estuary	3.70 (9%)	1.85 (4%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	5.55 (13%)
Soft Bottom						
0 – 30 meters	29.02 (7%)	0.00 (0%)	0.00 (0%)	18.16 (4%)	0.29 (<1%)	47.46 (11%)

0 – 30 meters proxy ^{*,a}	47.31 (13%)	0.00 (0%)	0.00 (0%)	20.26 (6%)	4.07 (1%)	71.63 (20%)
30 – 100 meters	98.92 (15%)	0.00 (0%)	0.00 (0%)	19.27 (3%)	14.56 (2%)	132.76 (20%)
100 – 200 meters	28.21 (18%)	0.00 (0%)	0.00 (0%)	4.23 (3%)	0.00 (0%)	32.44 (20%)
>200 meters	29.28 (12%)	0.00 (0%)	0.00 (0%)	5.94 (3%)	0.00 (0%)	35.22 (15%)
Hard Bottom						
0 – 30 meters	14.74 (13%)	0.00 (0%)	0.00 (0%)	3.66 (3%)	6.18 (6%)	24.58 (22%)
0 – 30 meters proxy ^{*,a}	31.08 (16%)	0.00 (0%)	0.00 (0%)	9.07 (5%)	8.85 (5%)	49.00 (26%)
30 – 100 meters	6.84 (14%)	0.00 (0%)	0.00 (0%)	0.15 (<1%)	7.79 (16%)	14.78 (31%)
100 – 200 meters	0.68 (18%)	0.00 (0%)	0.00 (0%)	0.02 (<1%)	0.00 (0%)	0.70 (18%)
>200 meters	0.87 (40%)	0.00 (0%)	0.00 (0%)	0.01 (<1%)	0.00 (0%)	0.87 (40%)
Unknown						
0 – 30 meters	4.10 (3%)	0.00 (0%)	0.00 (0%)	4.55 (3%)	0.46 (<1%)	9.11 (6%)
30 – 100 meters	28.39 (13%)	0.00 (0%)	0.00 (0%)	1.30 (1%)	5.89 (3%)	35.57 (17%)
100 – 200 meters	21.21 (19%)	0.00 (0%)	0.00 (0%)	0.52 (<1%)	6.42 (6%)	28.15 (25%)
>200 meters	24.87 (12%)	0.00 (0%)	0.00 (0%)	0.00 (0%)	20.05 (10%)	44.93 (22%)
Kelp						
Maximum Kelp*	54.72 (16%)	0.00 (0%)	0.00 (0%)	9.61 (3%)	14.04 (4%)	78.37 (23%)
Kelp Persistence*	27.38 (15%)	0.00 (0%)	0.00 (0%)	3.65 (2%)	10.79 (6%)	41.83 (23%)

* Habitats are measured as an area (mi²) except for those with an asterisk (*) notation. Habitats with an asterisk (*) notation are expressed in linear units (mi).

^a There is limited fine scale data for nearshore habitat, shallower than 10-20 meters depth, in the south coast study region. A proxy for this area was created using a line parallel to the coast and classifying the substrate as either hard or soft substrate depending on the dominant habitat type in that area based on available data.

4.4 No Change Alternative (Existing MPAs)

Under the No Change Alternative, existing MPAs and a special closure would have remained unchanged as shown in Figure 15 and Tables 52 and 53. Allowed take in MPAs and a special closure would have remained unchanged as described in Table 54. The representation of different habitat types would have remained unchanged as described in Table 55.

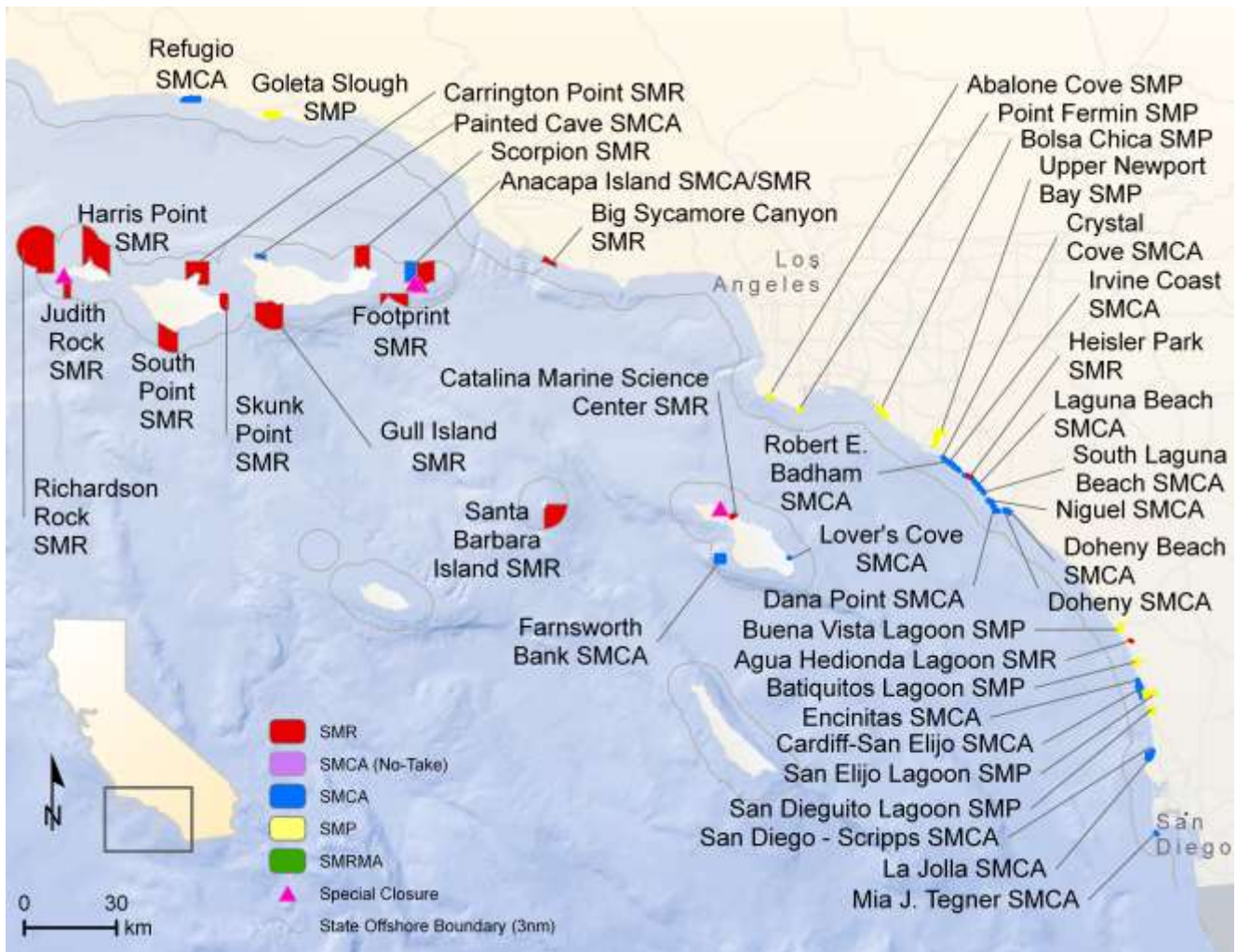


Figure 15. No Change Alternative (Existing MPAs).

Table 52. Overall Summary of No Change Alternative (Existing MPAs).

Type of MPA	Total Proposed	Area (Square Miles)	Percent of Study Region
State Marine Reserve	15	161.0	6.9
State Marine Park	8	2.7	0.1
State Marine Conservation Area	19	17.8	0.8
All MPAs Combined	42	181.5	7.7

Table 53. Individual MPAs in No Change Alternative (Existing MPAs).

MPA Name	Size (Square Miles)	Alongshore Span (miles)	Depth Range (Feet)
Richardson Rock SMR	40.69	6.3	95 - 558
Judith Rock SMR	4.55	1.2	0 - 487
Harris Point SMR	25.35	5.4	0 - 557
South Point SMR	13.05	3.5	0 - 1071

Carrington Point SMR	12.76	4.0	0 - 211
Skunk Point SMR	1.39	2.2	0 - 83
Painted Cave SMCA	1.78	1.9	0 - 291
Gull Island SMR	19.91	4.8	0 - 2205
Scorpion SMR	9.62	2.6	0 - 769
Footprint SMR	7.05	4.7	171 - 1656
Refugio SMCA	1.03	2.6	0 - 51
Goleta Slough SMP	0.25	N/A	N/A
Big Sycamore Canyon SMR	2.22	2.5	0 - 130
Abalone Cove SMP	0.10	0.8	0 - 10
Point Fermin SMP	0.07	0.6	0 - 20
Bolsa Chica SMP	0.25	N/A	N/A
Upper Newport Bay SMP	1.10	N/A	N/A
Robert E Badham SMCA	0.02	0.6	0 - 10
Crystal Cove SMCA	1.80	3.1	0 - 136
Irvine Coast SMCA	0.35	3.1	0 - 14
Heisler Park SMR	0.04	0.4	0 - 11
Laguna Beach SMCA	0.77	4.4	0 - 41
South Laguna Beach SMCA	0.05	0.4	0 - 22
Niguel SMCA	0.49	2.0	0 - 53
Dana Point SMCA	0.20	0.8	0 - 34
Doheny SMCA	0.14	1.1	0 - 10
Doheny Beach SMCA	0.19	1.2	0 - 14
Agua Hedionda Lagoon SMR	0.04	N/A	N/A
Batiquitos Lagoon SMP	0.28	N/A	N/A
Encinitas SMCA	0.11	0.9	0 - 10
Cardiff-San Elijo SMCA	1.21	2.1	0 - 59
San Elijo Lagoon SMP	0.44	N/A	N/A
San Dieguito Lagoon SMP	0.19	N/A	N/A
San Diego-Scripps SMCA	0.11	0.5	0 - 10
La Jolla SMCA	0.53	1.1	0 - 214
Mia J Tegner SMCA	0.02	0.6	0 - 10
Catalina Marine Science Center SMR	0.06	0.8	0 - 111
Farnsworth Bank SMCA	1.68	1.2	135 - 403
Lover's Cove SMCA	0.02	0.3	0 - 10

Table 54. Allowed Take for Individual MPAs in No Change Alternative (Existing MPAs).

MPA Name	Proposed Take Allowed
Richardson Rock SMR	Take of all living marine resources is prohibited.
Judith Rock SMR	Take of all living marine resources is prohibited.
Harris Point SMR	Take of all living marine resources is prohibited.
South Point SMR	Take of all living marine resources is prohibited.
Carrington Point SMR	Take of all living marine resources is prohibited.
Skunk Point SMR	Take of all living marine resources is prohibited.
Painted Cave SMCA	Prohibits all recreational take except for lobster and pelagic finfish. Prohibits all commercial take.
Gull Island SMR	Take of all living marine resources is prohibited.
Scorpion SMR	Take of all living marine resources is prohibited.
Footprint SMR	Take of all living marine resources is prohibited.
Refugio SMCA	Prohibits all recreational take except for chiones, clams, cockles, rock scallops, native oysters, crabs, lobsters, ghost shrimp, sea urchins, mussels, worms, and finfish.

	Prohibits all commercial take except for algae (except giant kelp and bull kelp); crabs, ghost shrimp, jackknife clams, sea urchins, worms, and finfish.
Goleta Slough SMP	Prohibits all recreational take except for hook and line take of species other than marine aquatic plants. Prohibits all commercial take.
Big Sycamore Canyon SMR	Take of all living marine resources is prohibited.
Abalone Cove SMP	Prohibits all recreational take except for finfish by hook and line or spear. Prohibits all commercial take.
Point Fermin SMP	Prohibits all recreational take except lobster; rockfish (family Scorpaenidae), greenling, lingcod, cabezon, yellowtail, mackerel, bluefin tuna, kelp bass, spotted sand bass, barred sand bass, sargo, croaker, queenfish, corbina, white seabass, opaleye, halfmoon, surfperch (family Embiotocidae), blacksmith, barracuda, California sheephead, bonito, California halibut, sole, turbot and sanddab. Finfish shall only be taken by hook and line or spear. Prohibits all commercial take.
Bolsa Chica SMP	Prohibits take of all living marine resources is prohibited except the recreational hook and line take of species other than marine aquatic plants from designated areas around outer Bolsa Bay.
Upper Newport Bay SMP	Prohibits all recreational take except hook and line take of species other than kelp. Prohibits all commercial take.
Robert E Badham SMCA	Prohibits all recreational take except lobster; rockfish (family Scorpaenidae), greenling, lingcod, cabezon, yellowtail, mackerel, bluefin tuna, kelp bass, spotted sand bass, barred sand bass, sargo, croaker, queenfish, corbina, white seabass, opaleye, halfmoon, surfperch (family Embiotocidae), blacksmith, barracuda, California sheephead, bonito, California halibut, sole, turbot and sanddab. Finfish shall only be taken by hook and line or spear. Prohibits all commercial take except lobster.
Crystal Cove SMCA	Prohibits all recreational take except chiones, clams, cockles, rock scallops, native oysters, crabs, lobsters, ghost shrimp, sea urchins, mussels, worms, and finfish. Prohibits all commercial take except algae (except giant kelp and bull kelp); crabs, ghost shrimp, jackknife clams, sea urchins, and worms, and finfish.
Irvine Coast SMCA	Prohibits all recreational take except lobster; rockfish (family Scorpaenidae), greenling, lingcod, cabezon, yellowtail, mackerel, bluefin tuna, kelp bass, spotted sand bass, barred sand bass, sargo, croaker, queenfish, corbina, white seabass, opaleye, halfmoon, surfperch (family Embiotocidae), blacksmith, barracuda, California sheephead, bonito, California halibut, sole, turbot and sanddab. Finfish shall be taken only by hook and line or by spear. Prohibits all commercial take except lobster.
Heisler Park SMR	Take of all living marine resources is prohibited.
Laguna Beach SMCA	Prohibits all recreational take except lobster; rockfish (family Scorpaenidae), greenling, lingcod, cabezon, yellowtail, mackerel, bluefin tuna, kelp bass, spotted sand bass, barred sand bass, sargo, croaker, queenfish, corbina, white seabass, opaleye, halfmoon, surfperch (family Embiotocidae), blacksmith, barracuda, California sheephead, bonito, California halibut, sole,

	turbot and sanddab. Finfish shall be taken only by hook and line or by spear. Prohibits all commercial take except lobster.
South Laguna Beach SMCA	Prohibits all recreational take except lobster; rockfish (family Scorpaenidae), greenling, lingcod, cabezon, yellowtail, mackerel, bluefin tuna, kelp bass, spotted sand bass, barred sand bass, sargo, croaker, queenfish, corbina, white seabass, opaleye, halfmoon, surfperch (family Embiotocidae), blacksmith, barracuda, California sheephead, bonito, California halibut, sole, turbot and sanddab. Finfish may only be taken by hook and line or by spear. Prohibits all commercial take except lobster.
Niguel SMCA	Prohibits all recreational take except lobster; rockfish (family Scorpaenidae), greenling, lingcod, cabezon, yellowtail, mackerel, bluefin tuna, kelp bass, spotted sand bass, barred sand bass, sargo, croaker, queenfish, corbina, white seabass, opaleye, halfmoon, surfperch (family Embiotocidae), blacksmith, barracuda, California sheephead, bonito, California halibut, sole, turbot and sanddab. Finfish may only be taken by hook and line or by spear. Prohibits all commercial take except lobster.
Dana Point SMCA	Prohibits all recreational take between mean high-tide and the low-lower water mark. Below the low-lower water mark the following species may be taken recreationally: 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, California halibut, sole, turbot, and sanddab. Finfish may only be taken by hook and line or by spear. Prohibits all commercial take except lobster.
Doheny SMCA	Prohibits all recreational take except chiones, clams, cockles, rock scallops, native oysters, crabs, lobsters, ghost shrimp, sea urchins, mussels, and worms, and finfish. Commercial take is allowed.
Doheny Beach SMCA	Prohibits all recreational take except lobster; rockfish (family Scorpaenidae), greenling, lingcod, cabezon, yellowtail, mackerel, bluefin tuna, kelp bass, spotted sand bass, barred sand bass, sargo, croaker, queenfish, corbina, white seabass, opaleye, halfmoon, surfperch (family Embiotocidae), blacksmith, barracuda, California sheephead, bonito, California halibut, sole, turbot and sanddab. Finfish may only be taken by hook and line or by spear. Prohibits all commercial take except lobster.
Agua Hedionda Lagoon SMR	Take of all living marine resources is prohibited.
Batiquitos Lagoon SMP	Prohibits all recreational take except finfish by hook and line from shore. Prohibits all commercial take.
Encinitas SMCA	Prohibits all recreational take except finfish. Prohibits all commercial take except for finfish.
Cardiff-San Elijo SMCA	Prohibits all recreational take except chiones, clams, cockles, rock scallops, native oysters, crabs, lobsters, ghost shrimp, sea urchins, mussels, and worms and finfish. Allows all commercial take.
San Elijo Lagoon SMP	Prohibits all recreational take except finfish by hook and line from shore. Prohibits all commercial take.

San Dieguito Lagoon SMP	Prohibits all recreational take except finfish by hook and line from shore and the Grand Avenue bridge. Prohibits all commercial take.
San Diego-Scripps SMCA	Prohibits all recreational take except finfish. Prohibits all commercial take except finfish.
La Jolla SMCA	Prohibits all recreational take. Prohibits all commercial take except for squid for the purpose of bait by hand-held scoop net west of a line drawn due north from Goldfish Point.
Mia J Tegner SMCA	Prohibits all recreational take except finfish. Prohibits all commercial take except for finfish and marine aquatic plants.
Catalina Marine Science Center SMR	Take of all living marine resources is prohibited.
Farnsworth Bank SMCA	Prohibits recreational and commercial take of purple coral (<i>Styaster californicus</i>).
Lover's Cove SMCA	Prohibits all recreational take. Prohibits all commercial take except for kelp and finfish.

Table 55. Habitat Representation in No Change Alternative (Existing MPAs).

Habitat	Area and Percentage (%) of Habitat in Each Type of MPA									
	SMR		SMRMA		SMP		SMCA		Total MPAs	
	Area	%	Area	%	Area	%	Area	%	Area	%
Intertidal										
Sandy or gravel beach*	10.32	3%	0.00	0%	0.86	<1%	16.15	4%	27.34	7%
Rocky shores*	33.16	12%	0.00	0%	0.94	<1%	16.86	6%	50.95	18%
Hardened shores*	0.05	<1%	0.00	0%	1.23	<1%	0.55	<1%	1.82	1%
Coastal marsh*	0.00	0%	0.00	0%	16.91	28%	0.01	<1%	16.92	28%
Coastal marsh	0.01	<1%	0.00	0%	1.31	21%	0.00	0%	1.32	22%
Tidal flats*	0.00	0%	0.00	0%	3.91	14%	0.00	0%	3.91	14%
Seagrass beds										
Surfgrass*	14.27	20%	0.00	0%	0.00	0%	1.29	2%	15.56	21%
Eelgrass	0.00	0%	0.00	0%	0.06	1%	0.00	0%	0.06	1%
Estuarine										
Estuary	0.04	<1%	0.00	0%	2.51	6%	0.00	0%	2.55	6%
Soft bottom										
0-30 meters	16.57	4%	0.00	0%	0.02	<1%	3.71	1%	20.30	5%
0-30 meters proxy*, ^a	24.06	7%	0.00	0%	0.10	<1%	11.55	3%	35.71	10%
30-100 meters	44.48	7%	0.00	0%	0.00	0%	8.14	1%	52.62	8%
100-200 meters	12.83	8%	0.00	0%	0.00	0%	0.32	<1%	13.15	8%
>200 meters	1.49	1%	0.00	0%	0.00	0%	0.00	0%	1.49	1%
Hard bottom										
0-30 meters	4.67	4%	0.00	0%	0.12	<1%	1.38	1%	6.17	6%
0-30 meters proxy*, ^a	11.30	6%	0.00	0%	0.10	<1%	3.19	2%	14.59	8%
30-100 meters	3.95	8%	0.00	0%	0.00	0%	0.49	1%	4.44	9%
100-200 meters	0.47	12%	0.00	0%	0.00	0%	0.01	<1%	0.48	12%
>200 meters	0.00	0%	0.00	0%	0.00	0%	0.00	0%	0.00	0%
Unknown										
0-30 meters	2.25	1%	0.00	0%	0.03	<1%	1.94	1%	4.22	3%
30-100 meters	28.34	13%	0.00	0%	0.00	0%	1.30	1%	29.64	14%

100-200 meters	21.03	19%	0.00	0%	0.00	0%	0.52	<1%	21.55	19%
>200 meters	24.90	12%	0.00	0%	0.00	0%	0.00	0%	24.90	12%
Kelp forest										
Maximum kelp*	21.84	6%	0.00	0%	0.12	0%	4.22	1%	26.17	8%
Kelp persistence*	11.33	6%	0.00	0%	0.12	0%	1.73	1%	13.17	7%

* Habitats are measured as an area (mi²) except for those with an asterisk (*) notation. Habitats with an asterisk (*) notation are expressed in linear units (mi).

^a There is limited fine scale data for nearshore habitat, shallower than 10-20 meters depth, in the south coast study region. A proxy for this area was created using a line parallel to the coast and classifying the substrate as either hard or soft substrate depending on the dominant habitat type in that area based on available data.