

## **Appendix P. Alternative Recommendations for MPAs Considered in Each Study Region**

### **1. North Coast Region (California/Oregon border to Alder Creek near Point Arena)**

To be added upon region completion

## **2. North Central Coast Region (Alder Creek near Point Arena to Pigeon Point)**

To be added upon region completion

**3. San Francisco Bay Region (waters within the San Francisco Bay, from the Golden Gate Bridge northeast to Carquinez Bridge)**

To be added upon region completion

#### 4. Central Coast Region (Pigeon Point to Point Conception)

The Commission considered two alternatives for MPAs in the formal regulatory process. These alternatives are described briefly below and are completely analyzed and compared in the California Environmental Quality Act (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. Alternatives which were discussed but not considered in the formal regulatory process are included in the CEQA document.

##### Alternative 1

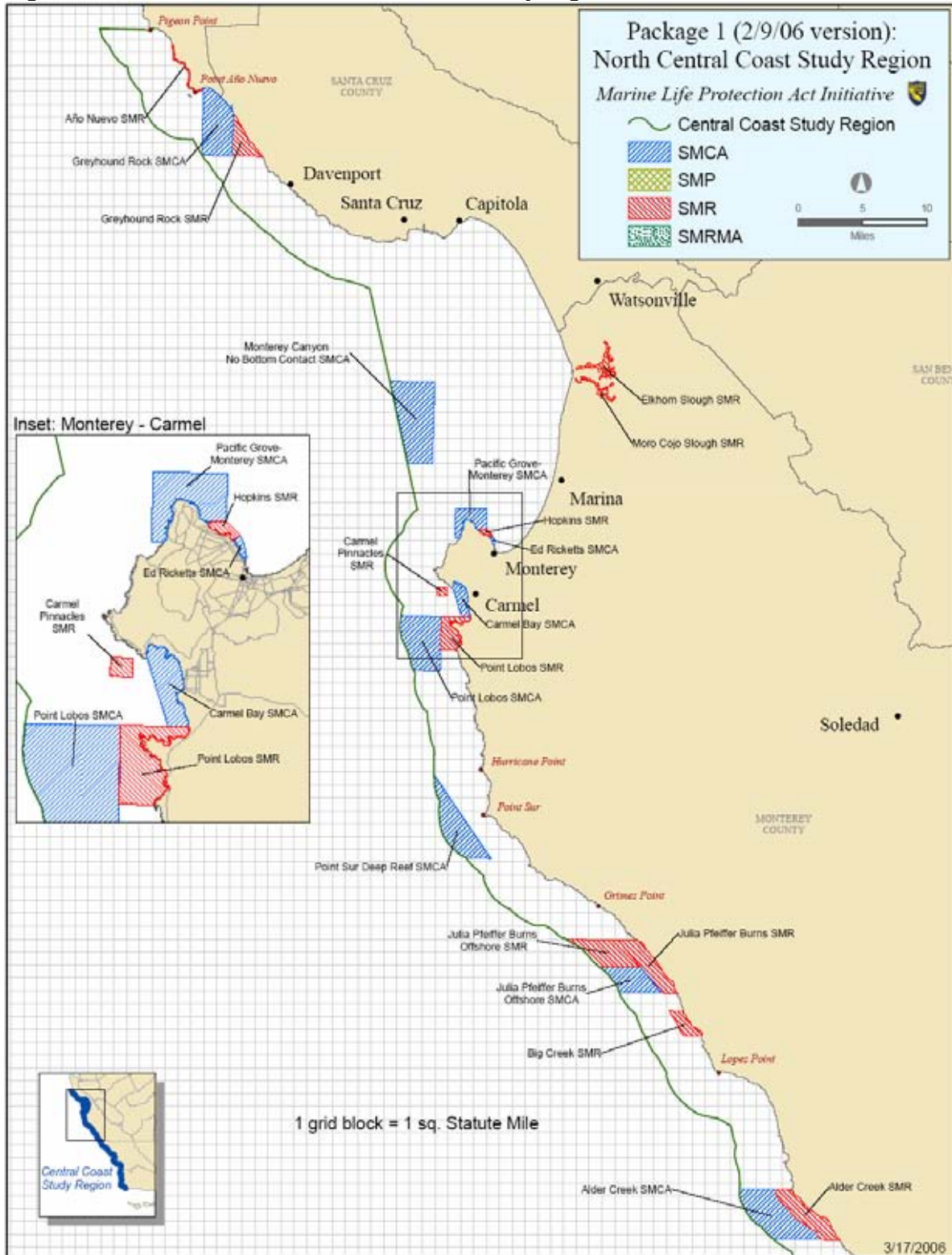
Alternative 1 was developed by CCRSG members representing recreational and commercial fishing interests and was called Package 1 in the stakeholder process. Under Alternative 1, MPAs would be designated as shown on Figures P-1 and P-2 and Tables P-1 and P-2. Some existing MPAs would be altered or eliminated. Proposed allowed take in MPAs would be as described in Table P-3. The representation of different habitats in Alternative 1 would be as shown in Table P-4. Of the various alternatives, Alternative 1 would have designated the smallest number and area of MPAs.

Table P-1. Overall Summary for Alternative 1

Type of MPA Proposed*	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
<b>All MPAs combined</b>	<b>29</b>	<b>171.33</b>	<b>14.90</b>

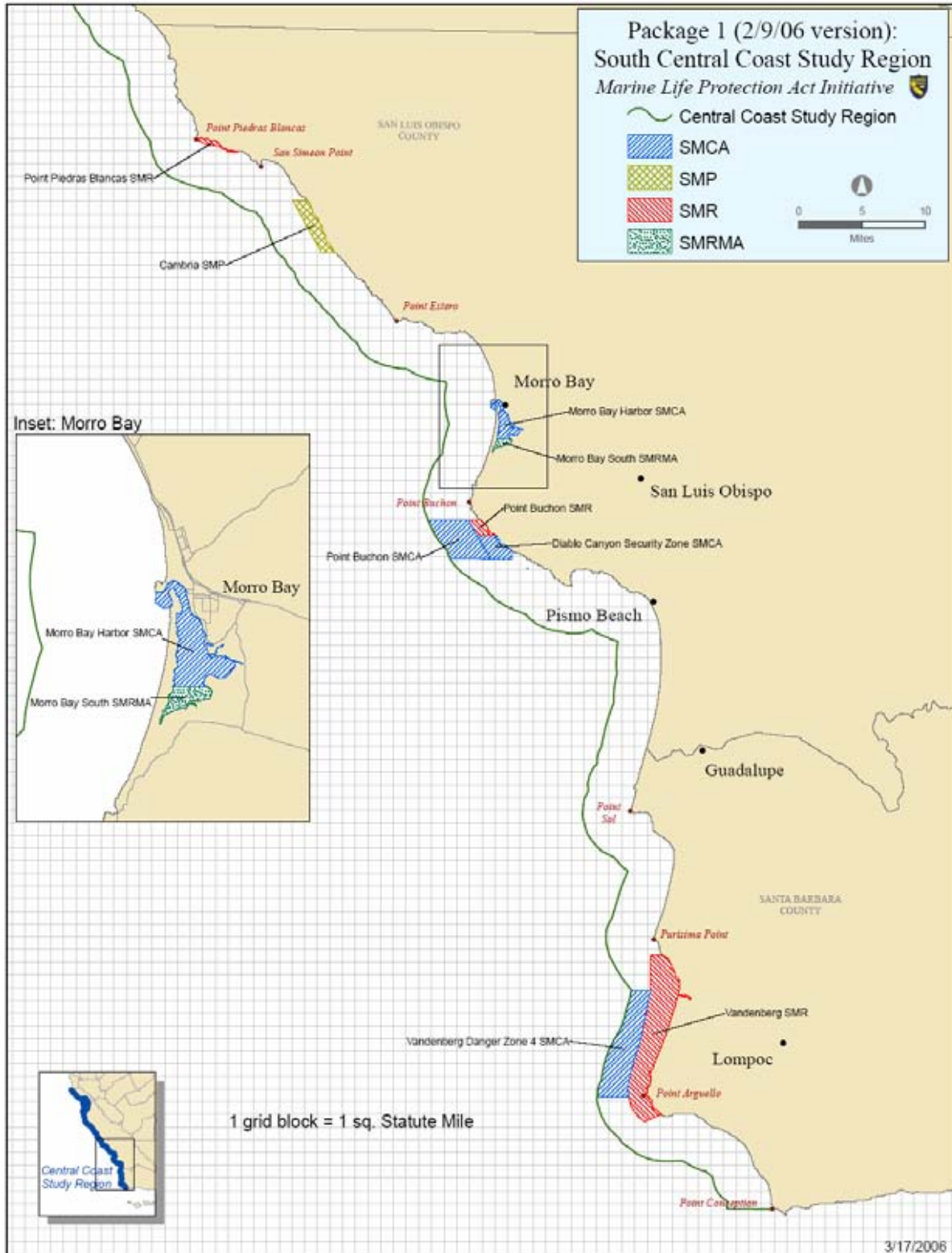
\*These are proposed MPA designations, not levels of protection assigned by the SAT. The proposed Morro Bay South SMRMA was included with the SMRs for the above summary and for the analysis.

Figure P-1. Alternative 1, northern half of study region



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

Figure P-2. Alternative 1, southern half of study region



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

Table P-2. Individual MPAs in Alternative 1

<b>MPA Name<sup>a</sup></b>	<b>Size (Square Miles)</b>	<b>Along-Shore Span (Miles)<sup>b</sup></b>	<b>Depth Range (Feet)</b>
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	3–498
Julia Pfeiffer Burns Offshore SMCA	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	0–98
Vandenberg Danger Zone 4 SMCA	16.60	8.6	95–235

<sup>a</sup> Listed north to south. Symbols following proposed MPA name indicate level of protection as determined by the SAT: 1 indicates SMCA High, 2 indicates SMCA Moderate, 3 indicates SMCA Low, and 4 indicates SMP Low. Level of protection was used in the SAT evaluation.

<sup>b</sup> Along-shore span measured as direct line from one end of the MPA to the other.

Table P-3. Allowed Take for Individual MPAs in Alternative 1

MPA Name <sup>a</sup>	Proposed Take Allowed
Año Nuevo SMR	No commercial or sport take.
Greyhound Rock SMCA	Recreational and commercial take of pelagic finfish <sup>1</sup> , squid, Dungeness crab, and salmon. Salmon may not be taken shallower than 25 fathoms.
Greyhound Rock SMR	No commercial or sport take.
Elkhorn Slough SMR	No commercial or sport take.
Moro Cojo Estuary SMR	No commercial or sport take.
Monterey Submarine Canyon No Bottom Contact SMCA	Pelagic finfish <sup>1</sup> 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	No commercial or sport take.
Pacific Grove-Monterey SMCA	Recreational finfish, Dungeness crab, and squid. Commercial Dungeness crab, pelagic finfish <sup>1</sup> , squid, and kelp.
Carmel Pinnacles SMR	No commercial or sport take.
Carmel Bay SMCA	Recreational finfish and commercial kelp and squid.
Point Lobos SMR	No commercial or sport take.
Point Lobos SMCA	Recreational and commercial salmon and commercial spot prawns.
Point Sur Deep Reef SMCA	Pelagic Finfish <sup>1</sup>
Julia Pfeiffer Burns Offshore SMR	No commercial or sport take.
Julia Pfeiffer Burns SMR	No commercial or sport take.
Julia Pfeiffer Burns Offshore SMCA	Salmon and spot prawn.
Big Creek SMR	No commercial or sport take.
Alder Creek SMR	No commercial or sport take.
Alder Creek SMCA	Pelagic Finfish <sup>1</sup>
Point Piedras Blancas SMR	No commercial or sport take.
Cambria SMCA (SMP) <sup>2</sup>	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	No commercial or sport take.
Point Buchon SMCA	Recreational and commercial salmon.
Diablo Canyon Security Zone SMCA	No commercial or sport take.
Vandenberg SMR	No commercial or sport take.
Vandenberg Danger Zone 4 SMCA	Recreational and commercial salmon and crabs.

<sup>a</sup> Listed north to south.

<sup>1</sup> 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.

<sup>2</sup> These areas will initially be designated as state marine conservation areas, though their regulations allow later change to state marine parks by the State Park and Recreation Commission.



Table P-4. Habitat Representation in Alternative 1

Habitat	Percentage of Habitat in Each Type of MPA*			
	SMR	SMP	SMCA	Total
<b>Intertidal</b>				
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	26.86	58.49
<b>Soft Bottom</b>				
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
<b>Hard Bottom</b>				
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
<b>Kelp Forest</b>				
Average kelp (1989, 1999, 2002, 2003)	14.62	4.13	5.84	24.59
Persistent kelp	26.74	6.29	6.92	39.96
<b>Submarine Canyon</b>				
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

\* These are proposed MPA designations, not levels of protection assigned by the SAT. The proposed Morro Bay South SMRMA was included with the SMRs for the analysis.

## Alternative 2

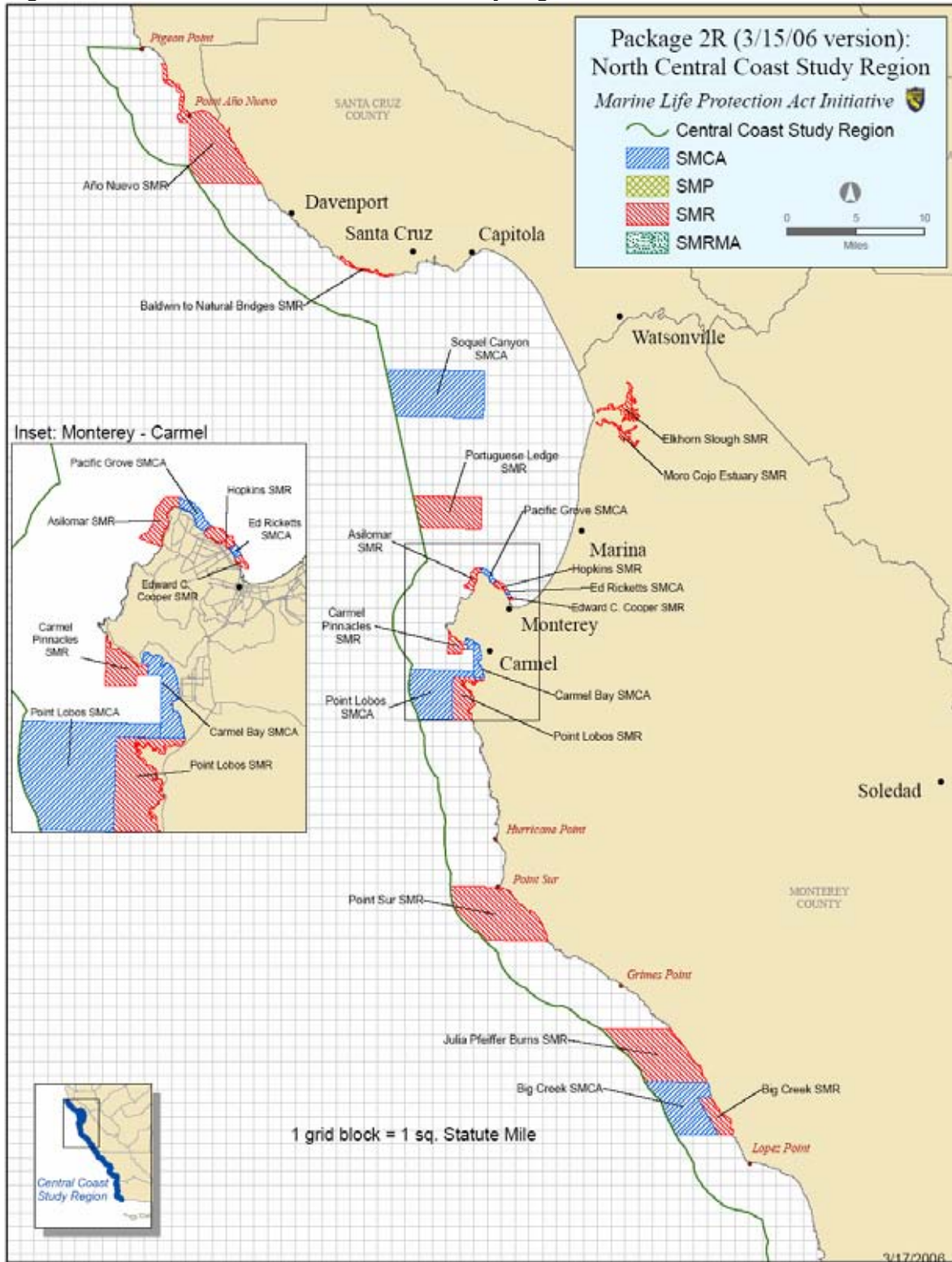
Alternative 2 was developed by CCRSG members representing nonconsumptive users. It was known as Package 2 and was modified as Package 2R by the BRTF. Under Alternative 2, MPAs would be designated as shown on Figures P-3 and P-4 and Tables P-5 and P-6. Some existing MPAs would have been altered or eliminated. Proposed allowed take in MPAs would be as described in Table P-7. The representation of different habitats in Alternative 2 would be as shown on Table P-8. Of the various alternatives, Alternative 2 would have designated the largest number and area of MPAs.

Table P-5. Overall Summary for Alternative 2

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
<b>All MPAs Combined</b>	<b>30</b>	<b>221.45</b>	<b>19.26</b>

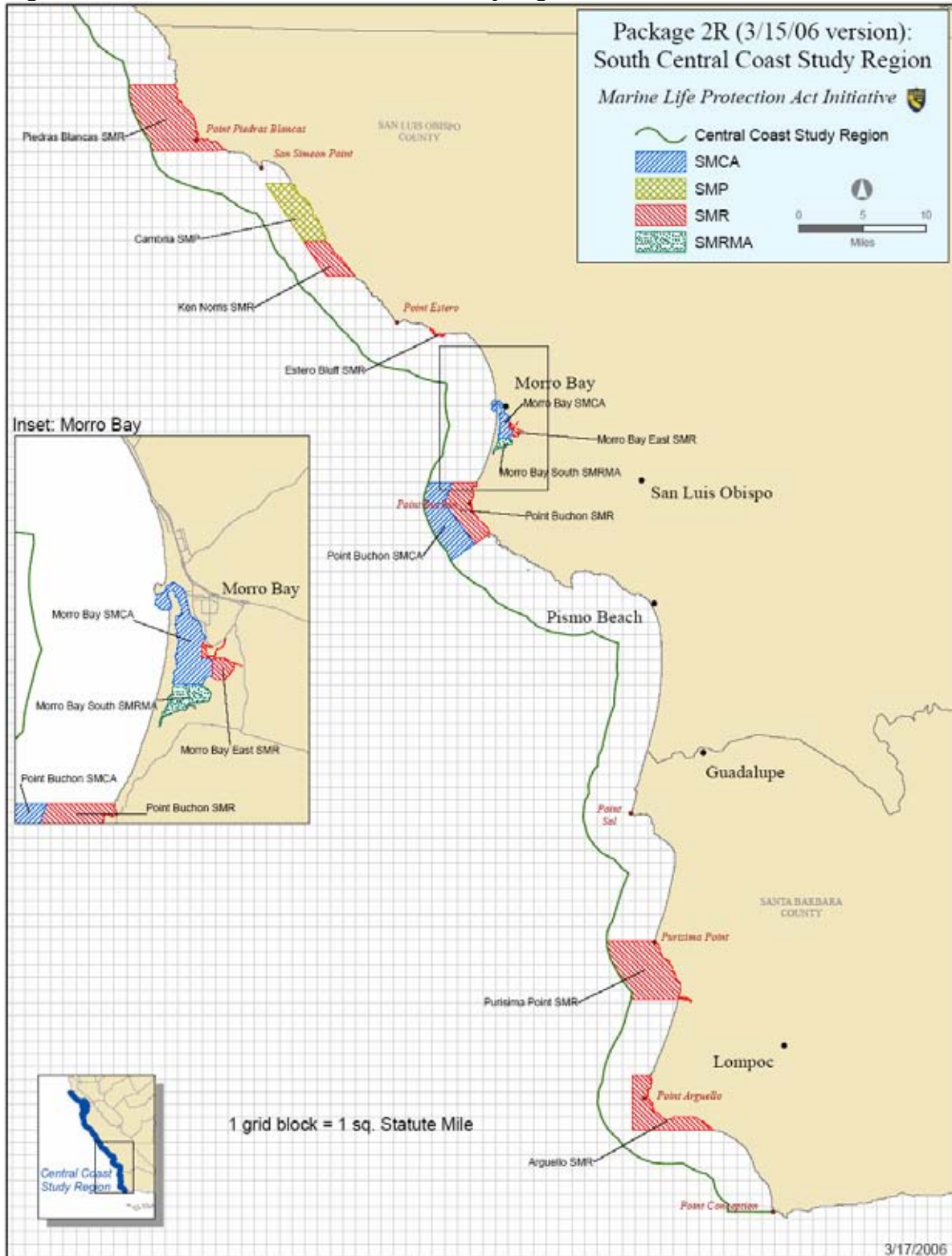
\* These are proposed MPA designations, not levels of protection assigned by the SAT. The proposed Morro Bay SMRMA was included with the SMRs for the above summary and for the analysis.

Figure P-3. Alternative 2, north half of study region.



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

Figure P-4. Alternative 2, south half of study region.



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

Table P-6. Individual MPAs in Alternative 2

<b>MPA Name<sup>a</sup></b>	<b>Size (Square Miles)</b>	<b>Along-Shore Span (Miles)<sup>b</sup></b>	<b>Depth Range (Feet)</b>
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
Morro Cojo Estuary SMR	0.74	7.6	0–10
Soquel Canyon SMCA	23.41	7.8	247–2113
Portuguese Ledge SMR	10.90	5.4	302–4838
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	227–2111
Point Sur SMR	19.48	5.4	3–624
Julia Pfeiffer Burns SMR	18.03	4.8	3–2227
Big Creek SMR	3.24	3.1	0–314
Big Creek SMCA	12.97	4.3	3–2393
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
Point Arguello SMR	10.66	8.2	0–189

<sup>a</sup> Listed north to south. Symbols following proposed MPA name indicate level of protection as determined by the SAT: 1 indicates SMCA High, 2 indicates SMCA Moderate, 3 indicates SMCA Low, and 4 indicates SMP Low. Level of protection was used in the SAT evaluation.

<sup>b</sup> Along-shore span measured as direct line from one end of the MPA to the other.

Table P-7. Allowed Take for Individual MPAs in Alternative 2

<b>MPA Name<sup>a</sup></b>	<b>Proposed Take Allowed</b>
Año Nuevo SMR	No commercial or sport take.
Baldwin to Natural Bridges SMR	No commercial or sport take.
Elkhorn Slough SMR	No commercial or sport take.
Moro Cojo Estuary SMR	No commercial or sport take.
Soquel Canyon SMCA	Salmon and albacore.
Portuguese Ledge SMR	No commercial or sport take.
Edward C. Cooper SMR	No commercial or sport take.
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	No commercial or sport take.
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	No commercial or sport take.
Carmel Pinnacles SMR	No commercial or sport take.
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	No commercial or sport take.
Point Lobos SMCA	Recreational and commercial salmon, albacore, and spot prawn.
Point Sur SMR	No commercial or sport take.
Julia Pfeiffer Burns SMR	No commercial or sport take.
Big Creek SMCA	Recreational and commercial salmon, albacore, and spot prawn deeper than 50 fathoms.
Big Creek SMR	No commercial or sport take.
Piedras Blancas SMR	No commercial or sport take.
Cambria SMCA (SMP) <sup>1</sup>	All recreational take.
Ken Norris SMR	No commercial or sport take.
Estero Bluff SMR	No commercial or sport take.
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	No commercial or sport take.
Point Buchon SMR	No commercial or sport take.
Point Buchon SMCA	Recreational and commercial salmon and albacore.
Purisima Point SMR	No commercial or sport take.
Point Arguello SMR	No commercial or sport take.

<sup>a</sup> Listed north to south.

<sup>1</sup> These areas will initially be designated as state marine conservation areas, though their regulations allow later change to state marine parks by the State Park and Recreation Commission.

Table P-8. Habitat Representation in Alternative 2

Habitat	Percentage of Habitat in Each Type of MPA*			
	SMR	SMP	SMCA	Total
<b>Intertidal</b>				
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
<b>Soft bottom</b>				
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
<b>Hard bottom</b>				
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
<b>Kelp forest</b>				
Average kelp (1989, 1999, 2002, 2003)	30.60	4.94	4.83	40.36
Persistent kelp	29.58	9.75	7.55	46.88
<b>Submarine canyon</b>				
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

\* These are proposed MPA designations, not levels of protection assigned by the SAT. The proposed Morro Bay SMRMA was included with the SMR totals.

## **5. South Coast Region (Point Conception to U.S./Mexico Border)**

To be added upon region completion