

California Marine Life Protection Act Initiative
North Central Coast Project
Staff Summary of Area and Habitats in the
Integrated Preferred Alternative (IPA) MPA Proposal
Revised April 23, 2008
(MPA names updated October 16, 2008)

Overall Summary for the Integrated Preferred Alternative (IPA) (April 23, 2008 version)

Type of MPA ^{1,2}	# Proposed	Area (mi ²)	% of Study Region
State Marine Reserve (SMR) ³	13	85.8	11.2%
State Marine Park (SMP)	2	3.8	0.5%
State Marine Conservation Area (SMCA)	9	63.8	8.4%
All MPAs combined	24	153.3	20.1%

¹ Note: These are proposed marine protected area (MPA) designations, NOT levels of protection assigned by the Master Plan Science Advisory Team (SAT).

² Note: SMCA = state marine conservation area, SMP = state marine park, SMR = state marine reserve and SMRMA = state marine recreational management area.

³ Note: The SMR category groups together SMRs and SMRMAs.

Summary of MPAs by Level of Protection for IPA (April 23, 2008 version)

Level of Protection (LOP)	# Proposed	Area (mi ²)	% of Study Region
Very High	13	85.8	11.2%
High	2	19.7	2.6%
Moderate-High	3	31.1	4.1%
Moderate	2	1.5	0.2%
Low ⁴	4	15.2	2.0%
Total	24	153.3	20.1%

⁴ Note: The Low category groups together MPAs that are assigned a moderate-low or low LOP.

Individual MPAs in IPA (April 23, 2008 version) (names updated October 16, 2008)

MPA Name	Size (mi ²)	Along-shore span ⁵ (mi)	Depth range (ft)
Point Arena SMR	4.38	3.0	0-173
Point Arena SMCA	6.73	3.0	153-324
Sea Lion Cove SMCA	0.22	0.7	0-39
Saunders Reef SMCA	9.35	3.0	0-276
Del Mar Landing SMR	0.22	0.6	0-87
Stewarts Point SMR	25.22	7.0	0-294
Salt Point SMP*	3.12	2.4	0-241
Gerstle Cove SMR	0.01	0.2	0-10
Russian River SMRMA	0.35	1.8	0-10
Russian River SMCA	0.86	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 SMR	9.38	7.5	0-132
Point Reyes SMCA	12.11	4.2	51-217
Estero de Limantour SMR	1.49	5.3	0-10

PREFERRED ALTERNATIVE (IPA) California Marine Life Protection Act Initiative, North Central Coast Project
Staff Summary of Area and Habitats MPA the Integrated Preferred Alternative (IPA) (April 23, 2008 version)

Drakes Estero SMCA	2.55	5.6	0-10
Duxbury SMP*	0.66	3.0	0-10
Montara SMR	11.76	3.1	0-168
Pillar Point SMCA	6.66	1.9	0-174
North Farallon Islands SMR	18.09	NA	0-275
Southeast Farallon Islands SMR	5.34	NA	0-238
Southeast Farallon Islands SMCA	12.95	NA	130-382

⁵ Note: Alongshore span measured as direct line from one end of the MPA to the other.

* Note: This area will initially be designated as an SMCA, though its regulations allow later change to SMP by the State Park and Recreation Commission.

Habitat Representation in IPA (April 23, 2008 version)

Habitat	Area ⁶ (mi ²) and percentage of mapped habitat in proposed MPA designations in the study region ⁷			
	SMR ⁸	SMP	SMCA	Total MPAs
Intertidal				
Sandy or gravel beach *	12.08 (10%)	0.85 (1%)	1.90 (2%)	14.83 (12%)
Rocky intertidal & cliff *	36.02 (22%)	6.90 (4%)	12.67 (8%)	55.60 (33%)
Coastal marsh	0.26 (17%)	0.00 (0%)	0.21 (14%)	0.48 (31%)
Tidal flats*	4.78 (26%)	0.00 (0%)	1.44 (8%)	6.23 (34%)
Seagrass beds				
Surfgrass*	12.77 (19%)	3.39 (5%)	0.66 (1%)	16.83 (24%)
Eelgrass	1.43 (24%)	0.00 (0%)	2.35 (39%)	3.79 (63%)
Estuary				
Estuary	1.90 (10%)	0.00 (0%)	2.52 (13%)	4.42 (23%)
Soft bottom				
0-30 meters*	4.49 (4%)	0.48 (< 1%)	1.24 (1%)	6.20 (6%)
30-100 meters	56.32 (14%)	1.32 (< 1%)	43.98 (11%)	101.63 (25%)
100-200 meters ⁹	NA	NA	NA	NA
>200 meters ⁹	NA	NA	NA	NA
Hard bottom				
0-30 meters*	21.35 (27%)	3.22 (4%)	4.80 (6%)	29.37 (36%)
30-100 meters	8.96 (17%)	0.68 (1%)	7.72 (15%)	17.37 (33%)
100-200 meters ⁹	NA	NA	NA	NA
>200 meters ⁹	NA	NA	NA	NA
Substrate < 50 m deep				
Hard substrate	10.29 (17%)	0.94 (2%)	6.13 (10%)	17.35 (28%)
Soft substrate	15.98 (6%)	0.15 (< 1%)	8.38 (3%)	24.71 (9%)
Kelp forest				
Kelp 1989	0.52 (16%)	0.23 (7%)	0.54 (17%)	1.29 (40%)
Kelp 1999	0.22 (12%)	0.07 (4%)	0.13 (7%)	0.41 (23%)
Kelp 2002	0.44 (24%)	0.32 (18%)	0.00 (0%)	0.76 (42%)
Kelp 2003	0.15 (12%)	0.06 (5%)	0.19 (16%)	0.40 (33%)
Kelp 2004	0.17 (12%)	0.14 (10%)	0.16 (11%)	0.47 (34%)
Kelp 2005	0.06 (7%)	0.01 (1%)	0.22 (24%)	0.29 (32%)
Average Kelp*	8.61 (25%)	3.84 (11%)	1.36 (4%)	13.82 (39%)

⁶ Note: Habitats measured as an area (mi²) except for those with a * notation. Habitats with a * notation are expressed in linear units (mi).

⁷ Note: These are proposed MPA designations, NOT levels of protection assigned by the SAT

⁸ Note: The SMR category groups together SMRs and SMRMAs.

⁹ Note: The "NA" notation is due to the fact that these habitats are not found or are only found in small areas in this study region.

Special Closures in IPA (April 23, 2008 version)

Geography	Boundary	Area (mi²)	Seasonality	Species Intended to Protect
Point Reyes Headlands	1000 ft	0.67	Year round	Intended to protect the largest and most diverse seabird colony on the mainland in the entire study region (e.g. Common Murre, Pelagic Cormorant, Western Gull, Brandt's cormorant, Pigeon Guillemot, Rhinoceros Auklet, Ashy storm-petrel, Brown Pelican).
Point Resistance Rock	300 ft	0.01	Year round	Intended to protect breeding Common Murre and roosting Brown Pelican.
Stormy Stack	300 ft	0.02	Year round	Intended to protect 2nd largest seabird breeding colony in the southern subregion (e.g. murre, Brandt's cormorant, Pelagic Cormorant, Pigeon Guillemot, Ashy storm-petrel and Brown Pelicans). Harbor seals haul-out and breed along beach; California sea lions haul out on islets.
Egg (Devil's Slide) Rock to Devil's Slide	300 ft around Egg (Devil's Slide) Rock, and also includes the area between Egg Rock and the mainland as defined by two points. No transit allowed between Egg Rock and mainland.	0.05	Year round	Intended to protect Common Murre and Brandt's cormorant colony on Egg Rock. Site of a significant seabird recovery project by US Fish & Wildlife Service. Roosting Brown Pelicans on rock and mainland.
North Farallon Islands	1000ft closure around N. Island. 300ft closure around Isle of St. James.	0.21	Year round	Intended to protect Steller sea lion haul out and > 72,000 nesting seabirds (e.g. Common Murre, Pigeon Guillemot, Pelagic Cormorant, Brandt's cormorant, Western Gull, Cassin's Auklet).
Southeast Farallon Islands	300 ft around Southeast Farallon, excluding Fishermen Bay and East Landing.	0.19	Year round, except a seasonal closure (12/1- 9/14) between Fishermen Bay and East Landing, and from east landing to southwest side of Saddle Rock.	Intended to protect Steller (haul out and rookery) and California sea lions (haul out), Northern fur (breeding) and Northern elephant seals (breeding), and more than 180,000 seabirds.

California Marine Life Protection Act Initiative
North Central Coast Project
Staff Summary of Area and Habitats in MPA Proposal 1-3 (Alternative 1)
Revised April 10, 2008
(MPA names updated October 16, 2008)

Overall Summary for Proposal 1-3 (March 19, 2008 version)

Type of MPA ^{1,2}	# Proposed	Area (mi ²)	% of Study Region
State Marine Reserve (SMR) ³	12	87.2	11.4%
State Marine Park (SMP)	1	0.1	<0.1%
State Marine Conservation Area (SMCA)	10	77.3	10.1%
All MPAs combined	23	164.6	21.6%

¹ Note: These are proposed marine protected area (MPA) designations, NOT levels of protection assigned by the MLPA Master Plan Science Advisory Team (SAT).

² Note: SMCA = state marine conservation area, SMP = state marine park, SMR = state marine reserve and SMRMA = state marine recreational management area.

³ Note: The SMR category groups together SMRs and SMRMAs.

Summary of MPAs by Level of Protection for Proposal 1-3 (March 19, 2008 version)

Level of Protection (LOP)	# Proposed	Area (mi ²)	% of Study Region
Very High	12	87.2	11.4%
High	2	19.7	2.6%
Moderate-High	2	18.9	2.5%
Moderate	4	25.6	3.4%
Low ⁴	3	13.2	1.7%
Total	23	164.6	21.6%

⁴ Note: The Low category groups together MPAs that are assigned a moderate-low or low LOP

Individual MPAs in Proposal 1-3 (March 19, 2008 version)

MPA Name	Size (mi ²)	Along-shore span ⁵ (mi)	Depth range (ft)
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 SMP	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	2.1	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

Individual MPAs in Proposal 1-3 (continued)

Fitzgerald SMR	14.25	2.3	0-170
Montara SMCA	8.42	3.8	0-134
North Farallon Islands SMR	18.09	NA	0-275
Southeast Farallon Islands SMR	5.34	NA	0-238
Southeast Farallon Islands SMCA	12.95	NA	130-382

⁵ Note: Alongshore span measured as direct line from one end of the MPA to the other.

* Note: An option is provided in the proposed regulations for designation as a state marine recreational management area (SMRMA) to allow for the recreational hunting of waterfowl.

Habitat Representation in Proposal 1-3 (March 19, 2008 version)

Habitat	Area ⁶ (mi ²) and percentage of mapped habitat in proposed MPA designations in the study region ⁷			
	SMR ⁸	SMP	SMCA	Total MPAs
Intertidal				
Sandy or gravel beach *	13.65 (11%)	0.00 (0%)	4.33 (4%)	17.98 (15%)
Rocky intertidal & 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%)	1.44 (8%)	6.19 (34%)
Seagrass beds				
Surfgrass*	13.19 (19%)	0.00 (0%)	9.51 (14%)	22.70 (33%)
Eelgrass	1.43 (24%)	0.00 (0%)	2.35 (39%)	3.78 (63%)
Estuary				
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 ⁹	NA	NA	NA	NA
>200 meters ⁹	NA	NA	NA	NA
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 ⁹	NA	NA	NA	NA
>200 meters ⁹	NA	NA	NA	NA
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				
Kelp 1989	0.40 (12%)	0.00 (0%)	0.54 (17%)	0.94 (29%)
Kelp 1999	0.16 (9%)	0.00 (0%)	0.14 (8%)	0.30 (17%)
Kelp 2002	0.33 (18%)	0.00 (0%)	0.06 (3%)	0.39 (21%)
Kelp 2003	0.10 (8%)	0.00 (0%)	0.19 (16%)	0.29 (24%)
Kelp 2004	0.12 (9%)	0.00 (0%)	0.17 (12%)	0.30 (21%)
Kelp 2005	0.03 (4%)	0.00 (0%)	0.22 (25%)	0.26 (29%)
Average Kelp*	6.91 (20%)	0.00 (0%)	2.14 (6%)	9.06 (26%)

⁶ Note: Habitats measured as an area (mi²) except for those with a * notation. Habitats with a * notation are expressed in linear units (mi).

⁷ Note: These are proposed MPA designations, NOT levels of protection assigned by the SAT

⁸ Note: The SMR category groups together SMRs and SMRMAs.

⁹ Note: The "NA" notation is due to the fact that these habitats are not found or are only found in small areas in this study region.

Special Closures in Proposal 1-3 (March 19, 2008 version)

Geography	Boundary	Area (mi²)	Seasonality	Species Intended to Protect
Point Reyes	1000 ft.	0.65	Year round	Intended to protect the largest and most diverse seabird colony on the mainland in the entire study region (e.g. Common Murre, Pelagic Cormorant, Western Gull, Brandt's cormorant, Pigeon Guillemot, Rhinoceros Auklet, Ashy storm-petrel, Brown Pelican).
Point Resistance Rock	500 ft.	0.03	Year round	Intended to protect 4 nesting seabird species, including: Common Murre, Brown Pelican, Pelagic Cormorant, and Pigeon Guillemot.
Stormy Stack	300 ft.	0.02	Year round	Intended to protect 2nd largest seabird breeding colony in the southern subregion (e.g. murre, Brandt's cormorant, Pelagic Cormorant, Pigeon Guillemot, Ashy storm-petrel and Brown Pelicans). Harbor seals haul-out and breed along beach; California sea lions haul out on islets.
Egg (Devil's Slide) Rock	1000 ft.	0.12	Year round	Intended to protect Common Murre and Brandt's cormorant colony on Egg Rock. Site of a significant seabird recovery project by US Fish & Wildlife Service. Roosting Brown Pelicans on rock and mainland.
Bean Hollow	300 ft.	0.04	Seasonal (Feb-Aug)	Intended to protect harbor seal rookery and haul out.
North Farallon Islands	1000 ft 300 ft (around North Island and Isle of St. James)	0.21	Year round	Intended to protect Steller sea lion haul out and > 72,000 nesting seabirds (e.g. Common Murre, Pigeon Guillemot, Pelagic Cormorant, Brandt's cormorant, Western Gull, Cassin's Auklet).
Southeast Farallon Islands	300 ft (except Fisherman's Bay and East Landing)	0.19	Year round	Intended to protect Steller (haul out and rookery) and California sea lions (haul out), Northern fur (breeding) and Northern elephant seals (breeding), and more than 180,000 seabirds.

**California Marine Life Protection Act Initiative
North Central Coast Project
Staff Summary of Area and Habitats in MPA Proposal 2-XA (Alternative 2)
Revised May 1, 2008
(MPA names updated October 16, 2008)**

Overall Summary for Proposal 2-XA (March 19, 2008 version)

Type of MPA ^{1,2}	# Proposed	Area (mi ²)	% of Study Region
State Marine Reserve (SMR) ³	12	68.1	8.9%
State Marine Park (SMP)	1	0.7	0.1%
State Marine Conservation Area (SMCA)	8	68.4	9.0%
All MPAs combined	21	137.2	18.0%

¹ Note: These are proposed marine protected area (MPA) designations, NOT levels of protection assigned by the Master Plan Science Advisory Team (SAT).

² Note: SMCA = state marine conservation area, SMP = state marine park, SMR = state marine reserve, and SMRMA = state marine recreational management area.

³ Note: The SMR category groups together SMRs and SMRMAs.

Summary of MPAs by Level of Protection for Proposal 2-XA (March 19, 2008 version)

Level of Protection (LOP)	# Proposed	Area (mi ²)	% of Study Region
Very High	12	68.1	8.9%
High	3	30.3	4.0%
Moderate-High	3	34.7	4.6%
Moderate	1	0.7	0.1%
Low ⁴	2	3.4	0.4%
Total	21	137.2	18.0%

⁴ Note: The Low category groups together MPAs that are assigned a moderate-low or low LOP.

Individual MPAs in Proposal 2-XA (March 19, 2008 version)

MPA Name	Size (mi ²)	Along-shore span ⁵ (mi)	Depth range (ft)
Pt Arena SMR	5.05	3.5	0-176
Pt 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	0.85	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
Pt Reyes Headlands SMR	9.29	7.5	0-132
Pt 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 SMP*	0.66	3.0	0-10
Montara SMR	9.28	2.6	0-165

Individual MPAs in Proposal 2-XA (continued)

Pillar Point SMCA	10.41	2.8	0-174
North Farallon SMR	18.09	NA	0-275
SE Farallon SMR	5.33	NA	0-238
SE Farallon SMCA	12.97	NA	130-382

⁵ Note: Alongshore span measured as direct line from one end of the MPA to the other.

* Note: This area will initially be designated as an SMCA, though its regulations allow later change to SMP by the State Park and Recreation Commission.

Habitat Representation in Proposal 2-XA (March 19, 2008 version)

Habitat	Area ⁶ (mi ²) and percentage of mapped habitat in proposed MPA designations in the study region ⁷			
	SMR ⁸	SMP	SMCA	Total MPAs
Intertidal				
Sandy or gravel beach *	12.56 (11%)	0.22 (< 1%)	1.67 (1%)	14.46 (12%)
Rocky intertidal & cliff *	29.98 (18%)	1.64 (1%)	7.14 (4%)	38.76 (23%)
Coastal marsh	0.26 (17%)	0.00 (0%)	0.21 (14%)	0.48 (31%)
Tidal flats*	4.78 (26%)	0.00 (0%)	1.44 (8%)	6.23 (34%)
Seagrass beds				
Surfgrass*	12.00 (17%)	3.39 (5%)	1.44 (2%)	16.83 (24%)
Eelgrass	1.43 (24%)	0.00 (0%)	2.35 (39%)	3.79 (63%)
Estuary				
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 (12%)	92.19 (22%)
100-200 meters ⁹	NA	NA	NA	NA
>200 meters ⁹	NA	NA	NA	NA
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 ⁹	NA	NA	NA	NA
>200 meters ⁹	NA	NA	NA	NA
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				
Kelp 1989	0.35 (11%)	0.00 (0%)	0.00 (0%)	0.35 (11%)
Kelp 1999	0.17 (10%)	0.00 (0%)	0.00 (0%)	0.17 (10%)
Kelp 2002	0.15 (8%)	0.00 (0%)	0.01 (< 1%)	0.16 (9%)
Kelp 2003	0.12 (10%)	0.00 (0%)	0.00 (0%)	0.12 (10%)
Kelp 2004	0.10 (7%)	0.00 (0%)	0.01 (< 1%)	0.10 (7%)
Kelp 2005	0.08 (8%)	0.00 (0%)	0.00 (0%)	0.08 (8%)
Average Kelp*	5.02 (14%)	0.00 (0%)	0.29 (1%)	5.31 (15%)

⁶ Note: Habitats measured as an area (mi²) except for those with a * notation. Habitats with a * notation are expressed in linear units (mi).

⁷ Note: These are proposed MPA designations, NOT levels of protection assigned by the SAT

⁸ Note: The SMR category groups together SMRs and SMRMAs.

⁹ Note: The "NA" notation is due to the fact that these habitats are not found or are only found in small areas in this study region.

ALTERNATIVE 2*California Marine Life Protection Act Initiative, North Central Coast Project**Staff Summary of Area and Habitats MPA the Integrated Preferred Alternative (IPA) (April 23, 2008 version)**Revised May 1, 2008***Special Closures in Proposal 2-XA (March 19, 2008 version)**

Geography	Boundary	Area (mi²)	Seasonality	Species Intended to Protect
Point Resistance Rock	300 ft.	0.01	Year round	Intended to protect breeding Common Murre and roosting Brown Pelican.
Egg (Devil's Slide) Rock	300 ft.	0.01	Year round	Intended to protect breeding Common Murre, Brandt's cormorant, and roosting Brown Pelican.
Stormy Stack	300 ft.	0.02	Year round	Intended to protect harbor seals in haul out and breeding, California sea lions in haul out and 2nd largest seabird breeding colony in the subregion (e.g Ashy storm-petrel, murre, Brown Pelican, Brandt's cormorant, Pelagic Cormorant, Pigeon Guillemot).
North Farallon Islands	300 ft (around North Island and Isle of St. James)	0.08	Year round	Intended to protect Stellar sea lion haul out and > 72,000 nesting seabirds (e.g. Common Murre, Pigeon Guillemot, Pelagic Cormorant, Brandt's cormorant, Western Gull, Cassin's Auklet).
Southeast Farallon Islands	300 ft (except Fisherman's Bay and East Landing)	0.17	Year round	Intended to protect Steller sea lions (haul out and rookery) and California sea lions (haul out), Northern fur and Northern elephant seals (both breeding), and more than 180,000 seabirds.

California Marine Life Protection Act Initiative
North Central Coast Project
Staff Summary of Area and Habitats in MPA Proposal 4 (Alternative 3)
Revised April 10, 2008
(MPA names updated October 16, 2008)

Overall Summary for Proposal 4 (March 19, 2008 version)

Type of MPA ^{1,2}	# Proposed	Area (mi ²)	% of Study Region
State Marine Reserve (SMR) ³	15	105.0	13.8%
State Marine Park (SMP)	1	2.9	0.4%
State Marine Conservation Area (SMCA)	12	97.1	12.7%
All MPAs combined	28	204.9	26.9%

¹ Note: These are proposed marine protected area (MPA) designations, NOT levels of protection assigned by the Master Plan Science Advisory Team (SAT).

² Note: SMCA = state marine conservation area, SM P= state marine park, SMR = state marine reserve and SMRMA = state marine recreational management area.

³ Note: The SMR category groups together SMRs and SMRMAs.

Summary of MPAs by Level of Protection for Proposal 4 (March 19, 2008 version)

Level of Protection (LOP)	# Proposed	Area (mi ²)	% of Study Region
Very High	15	105.0	13.8%
High	3	30.9	4.0%
Moderate-High	3	36.3	4.8%
Moderate	3	16.6	2.2%
Low ⁴	4	16.1	2.1%
Total	28	204.9	26.9%

⁴ Note: The Low category groups together MPAs that are assigned a moderate-low or low LOP.

Individual MPAs in Proposal 4 (March 19, 2008 version)

MPA Name	Size (mi ²)	Along-shore span ⁵ (mi)	Depth range (ft)
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 SMR	0.22	0.6	0-87
Stewarts Point SMR	28.52	7.6	0-298
Salt Point SMP*	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

Individual MPAs in Proposal 4 (continued)

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 Gregorio SMR	12.53	3.5	0-140
North Farallon SMR	18.13	NA	0-275
Southeast Farallon SMR	5.31	NA	0-238
Southeast Farallon SMCA	12.94	NA	130-382

⁵ Note: Alongshore span measured as direct line from one end of the MPA to the other.

* Note: This area will initially be designated as an SMCA, though its regulations allow later change to SMP by the State Park and Recreation Commission.

** Note: An option is provided in the proposed regulations for designation as a state marine recreational management (SMRMA) to allow for the recreational hunting of waterfowl.

Habitat Representation in Proposal 4 (March 19, 2008 version)

Habitat	Area ⁶ (mi ²) and percentage of mapped habitat in proposed MPA designations in the study region ⁷			
	SMR ⁸	SMP	SMCA	Total MPAs
Intertidal				
Sandy or gravel beach *	17.61 (15%)	0.45 (0%)	10.25 (9%)	28.31 (24%)
Rocky intertidal & 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				
Surfgrass*	14.38 (21%)	0.00 (0%)	15.46 (22%)	29.84 (43%)
Eelgrass	1.43 (24%)	0.00 (0%)	2.35 (39%)	3.79 (63%)
Estuary				
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 ⁹	NA	NA	NA	NA
>200 meters ⁹	NA	NA	NA	NA
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 ⁹	NA	NA	NA	NA
>200 meters ⁹	NA	NA	NA	NA
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%)	35.23 (13%)	60.07 (22%)
Kelp forest				
Kelp 1989	0.59 (18%)	0.17 (5%)	0.56 (17%)	1.32 (41%)
Kelp 1999	0.25 (14%)	0.05 (3%)	0.15 (8%)	0.45 (25%)
Kelp 2002	0.52 (28%)	0.24 (13%)	0.08 (4%)	0.84 (46%)
Kelp 2003	0.17 (14%)	0.03 (3%)	0.20 (17%)	0.41 (34%)
Kelp 2004	0.21 (15%)	0.10 (7%)	0.19 (13%)	0.50 (35%)
Kelp 2005	0.07 (8%)	0.00 (0%)	0.23 (25%)	0.30 (33%)
Average Kelp*	9.43 (27%)	3.20 (9%)	2.73 (8%)	15.37 (44%)

ALTERNATIVE 3*California Marine Life Protection Act Initiative, North Central Coast Project**Staff Summary of Area and Habitats MPA the Integrated Preferred Alternative (IPA) (April 23, 2008 version)**Revised April 10, 2008*

⁶ Note: Habitats measured as an area (mi²) except for those with a * notation. Habitats with a * notation are expressed in linear units (mi).

⁷ Note: These are proposed MPA designations, NOT levels of protection assigned by the SAT

⁸ Note: The SMR category groups together SMRs and SMRMAs.

⁹ Note: The "NA" notation is due to the fact that these habitats are not found or are only found in small areas in this study region.

Special Closures in Proposal 4 (March 19, 2008 version)

Geography	Boundary	Area (mi²)	Seasonality	Species Intended to Protect
Arched Rock	300 ft.	0.02	Year round	Intended to protect four breeding species of seabirds (e.g. Brandt's cormorant, Western Gull, Pelagic Cormorant, Pigeon Guillemot).
Gull Rock	300 ft.	0.02	Year round	Intended to protect 6 breeding species of seabirds (e.g. Brandt's cormorant, Pigeon Guillemot, Pelagic Cormorant, Western Gull, Black Oystercatcher, Double-crested Cormorant). Also protects a large harbor seal haul out and rookery.
Pt. Reyes Headlands	1000 ft	0.65	Year round	Intended to protect the third largest seabird colony in the north central coast, including nine nesting seabird species (e.g. Pelagic Cormorant, Common Murre, Western Gull, Brandt's cormorant, Brown Pelican Pigeon Guillemot, Rhinoceros Auklet) Also protects elephant seal rookery.
Stormy Stack	300 ft	0.02	Year round	Intended to protect 2nd largest seabird breeding colony in the southern subregion (e.g. Common Murre, Brandt's cormorant, Pelagic Cormorant, Pigeon Guillemot, Ashy storm-petrel and roosting Brown Pelican). Harbor seals haul-out and breed along beach; California sea lions haul out on islets.
Egg (Devil's Slide) Rock	1000 ft	0.12	Year round	Intended to protect Common Murre and Brandt's cormorant colony on Egg Rock. Site of a significant seabird recovery project by USFWS. Roosting Brown Pelicans on rock and mainland.
North Farallon Islands	1000 ft (around North Island) 300 ft (around North Island & Isle of St. James.	0.21	Year round	Intended to protect Steller sea lions haul out. More than 72,000 nesting seabirds that include: Common Murre, Pelagic Cormorant, Brandt's cormorant, Pigeon Guillemot, Western Gull, Cassin's Auklet
Southeast Farallon Islands	300 ft (except Fisherman's Bay and East Landing)	0.19	Year round	Intended to protect Steller sea lions haul out and rookery, as well as more than 180,000 seabirds.