

**California Marine Life Protection Act Initiative**  
**North Central Coast Project**  
**Staff Summary of Area and Habitats in Proposal 0 (Existing MPAs)**  
*February 1, 2008*

**Overall Summary for Proposal 0 (12/21/07 version)**

Type of MPA <sup>1</sup>	# Proposed	Area (mi <sup>2</sup> )	% of Study Region
State Marine Reserve (SMR)	1	0.29	0.04%
State Marine Park (SMP)	2	0.75	0.10%
State Marine Conservation Area (SMCA)	10	25.78	3.38%
<b>All MPAs combined</b>	<b>13</b>	<b>26.82</b>	<b>3.51%</b>

<sup>1</sup> Note: These are proposed marine protected area designations, NOT levels of protection assigned by the MLPA Master Plan Science Advisory Team.

**Summary of SMCAs by Protection Level for Proposal 0 (12/21/07 version)**

SMCA Protection Level	# Proposed	Area (mi <sup>2</sup> )	% of Study Region
High Protection	0	0.00	0.00%
Moderate-High Protection	0	0.00	0.00%
Moderate Protection	0	0.00	0.00%
Low Protection	10	25.78	3.38%
<b>All SMCAs combined</b>	<b>10</b>	<b>25.78</b>	<b>3.38%</b>

**Individual MPAs in Proposal 0 (12/21/07 version)**

MPA Name	Size (mi <sup>2</sup> )	Along-shore span (mi) <sup>A</sup>	Depth range (ft)
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
Tomaes 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

<sup>A</sup> Note: Alongshore span measured as direct line from one end of the MPA to the other.

**Habitat Representation in Proposal 0 (12/21/07 version)**

Habitat	Area <sup>1</sup> (mi <sup>2</sup> ) and percentage of mapped habitat in proposed MPA designations in the study region <sup>2</sup>			
	SMR	SMP	SMCA	Total MPAs
<b>Intertidal</b>				
Sandy or gravel beach	0.23 (0%)	0.32 (0%)	10.48 (9%)	11.03 (9%)
Rocky intertidal & cliff	1.51 (1%)	0.45 (0%)	21.56 (13%)	23.52 (14%)
Coastal marsh	0.00 (0%)	6.10 (12%)	5.22 (10%)	11.32 (22%)
Tidal flats	0.00 (0%)	0.15 (1%)	1.17 (6%)	1.32 (7%)
<b>Seagrass beds: Surfgrass</b>	1.24 (2%)	0.00 (0%)	13.96 (20%)	15.20 (22%)
<b>Seagrass beds: Eelgrass</b>	0.00 (0%)	0.00 (0%)	0.77 (13%)	0.77 (13%)
<b>Estuary</b>	0.00 (0%)	0.64 (3%)	0.73 (4%)	1.36 (7%)
<b>Soft bottom</b>				
0-30 meters	0.00 (0%)	0.65 (0%)	2.51 (2%)	3.16 (2%)
30-100 meters	0.00 (0%)	0.00 (0%)	8.05 (2%)	8.05 (2%)
100-200 meters <sup>3</sup>	NA	NA	NA	NA
>200 meters <sup>3</sup>	NA	NA	NA	NA
<b>Hard bottom</b>				
0-30 meters	0.11 (0%)	0.01 (0%)	1.54 (5%)	1.66 (5%)
30-100 meters	0.00 (0%)	0.00 (0%)	6.98 (13%)	6.98 (13%)
100-200 meters <sup>3</sup>	NA	NA	NA	NA
>200 meters <sup>3</sup>	NA	NA	NA	NA
<b>Kelp forest</b>				
Kelp 1989	0.00 (0%)	0.00 (0%)	0.16 (5%)	0.16 (5%)
Kelp 1999	0.00 (0%)	0.00 (0%)	0.04 (3%)	0.05 (3%)
Kelp 2002	0.00 (0%)	0.00 (0%)	0.23 (13%)	0.23 (13%)
Kelp 2003	0.00 (0%)	0.00 (0%)	0.05 (4%)	0.05 (4%)
Kelp 2004	0.00 (0%)	0.00 (0%)	0.12 (9%)	0.13 (9%)
Kelp 2005	0.00 (0%)	0.00 (0%)	0.01 (2%)	0.02 (2%)
Average kelp	0.00 (0%)	0.00 (0%)	0.10 (6%)	0.11 (6%)

<sup>1</sup> Note: Area expressed as mi<sup>2</sup> except for Intertidal habitats and Surfgrass bed, which are expressed in mi.

<sup>2</sup> Note: These are proposed MPA designations, NOT levels of protection assigned by the SAT

<sup>3</sup> 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.

**Marine Life Protection Act Initiative  
North Central Coast Project  
Staff Summary of Area and Habitats in Draft Proposal 1 (EC)  
February 1, 2008**

**Overall Summary for Draft Proposal 1 (EC) (12/12/07 version)**

Type of MPA <sup>1</sup>	# Proposed	Area (mi <sup>2</sup> )	% of Study Region
State Marine Reserve (SMR) <sup>2</sup>	15	96.28	12.62%
State Marine Park (SMP)	2	1.65	0.22%
State Marine Conservation Area (SMCA)	9	92.85	12.17%
<b>All MPAs combined</b>	<b>26</b>	<b>190.78</b>	<b>25.00%</b>

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

<sup>2</sup> Note: The SMR category groups together MPAs that are designated as SMR or SMRMA.

**Summary of SMCAs by Protection Level for Draft Proposal 1 (EC) (12/12/07 version)**

SMCA Protection Level	# Proposed	Area (mi <sup>2</sup> )	% of Study Region
High Protection	3	31.82	4.17%
Moderate-High Protection	4	41.34	5.42%
Moderate Protection	1	14.19	1.86%
Low Protection	1	5.50	0.72%
<b>All SMCAs combined</b>	<b>9</b>	<b>92.85</b>	<b>12.17%</b>

**Individual MPAs in Draft Proposal 1 (EC) (12/12/07 version)**

MPA Name	Size (mi <sup>2</sup> )	Along-shore span (mi) <sup>A</sup>	Depth range (ft)
Point Arena SMR	2.57	3.0	0-122
Point Arena SMCA	9.42	3.0	59-324
Saunder's Reef inshore SMCA	5.50	3.7	0-167
Saunder's Reef offshore SMCA	7.79	3.7	143-278
Del Mar Landing SMP	0.09	0.3	0-55
Sea Ranch to Salt Point SMR	37.15	9.5	0-298
Salt Point SMP	1.56	1.9	0-226
Russian River SMR	0.68	2.4	0-43
Bodega Head SMR	6.94	4.0	0-199
Bodega Head SMCA	10.13	4.5	111-266
Estero de Americano SMRMA	0.14	1.2	0-10
Estero De San Antonio SMRMA	0.08	0.7	0-10
Clam Island SMRMA	0.22	0.3	0-15
Tomales Bay South SMRMA	1.47	2.5	0-10
Point Reyes Headland SMR	5.56	3.7	0-139
Point Reyes Headland SMCA	10.42	3.7	57-217
Drakes - Limantour Estero SMR	3.96	7.2	0-10
Double Point SMR	4.01	4.1	0-92
Double Point SMCA	11.02	4.1	62-150
Duxbury Reef SMCA	14.19	3.8	0-146
Bolinas Lagoon SMR	1.74	2.3	0-10

Fitzgerald SMR	10.33	3.7	0-163
Devil's Slide SMCA	10.48	3.4	0-125
N Farallon Island SMR	17.66	NA	0-275
SE Farallon SMR	3.78	NA	0-188
SE Farallon SMCA	13.90	NA	129-382

<sup>A</sup> Note: Alongshore span measured as direct line from one end of the MPA to the other.

### Habitat Representation in Draft Proposal 1 (EC) (12/12/07 version)

Habitat	Area <sup>1</sup> (mi <sup>2</sup> ) and percentage of mapped habitat in proposed MPA designations in the study region <sup>2</sup>			
	SMR <sup>3</sup>	SMP	SMCA	Total MPAs
<b>Intertidal</b>				
Sandy / gravel beach	17.89 (15%)	0.44 (0%)	4.42 (4%)	22.76 (19%)
Rocky intertidal & cliff	49.24 (30%)	3.83 (2%)	11.65 (7%)	64.72 (39%)
Coastal marsh	35.48 (69%)	0.00 (0%)	0.00 (0%)	35.48 (69%)
Tidal flats	9.69 (53%)	0.00 (0%)	0.00 (0%)	9.69 (53%)
<b>Seagrass beds: Surfgrass</b>	18.63 (27%)	0.00 (0%)	7.21 (11%)	25.84 (38%)
<b>Seagrass beds: Eelgrass</b>	3.89 (64%)	0.00 (0%)	0.00 (0%)	3.89 (64%)
<b>Estuary</b>	7.76 (40%)	0.00 (0%)	0.00 (0%)	7.76 (40%)
<b>Soft bottom</b>				
0-30 meters	13.52 (9%)	0.01 (0%)	8.26 (6%)	21.79 (15%)
30-100 meters	57.69 (14%)	0.36 (0%)	63.18 (15%)	121.22 (29%)
100-200 meters <sup>4</sup>	NA	NA	NA	NA
>200 meters <sup>4</sup>	NA	NA	NA	NA
<b>Hard bottom</b>				
0-30 meters	6.66 (20%)	0.44 (1%)	4.62 (14%)	11.73 (34%)
30-100 meters	8.07 (16%)	0.53 (1%)	5.58 (11%)	14.18 (27%)
100-200 meters <sup>4</sup>	NA	NA	NA	NA
>200 meters <sup>4</sup>	NA	NA	NA	NA
<b>Kelp forest</b>				
Kelp 1989	0.69 (22%)	0.14 (4%)	0.62 (19%)	1.45 (45%)
Kelp 1999	0.29 (16%)	0.04 (3%)	0.23 (13%)	0.56 (32%)
Kelp 2002	0.64 (35%)	0.19 (10%)	0.01 (0%)	0.83 (45%)
Kelp 2003	0.23 (19%)	0.02 (2%)	0.19 (16%)	0.44 (37%)
Kelp 2004	0.25 (18%)	0.08 (6%)	0.16 (11%)	0.49 (35%)
Kelp 2005	0.08 (10%)	0.00 (0%)	0.23 (26%)	0.31 (35%)
Average kelp	0.36 (21%)	0.08 (5%)	0.24 (14%)	0.68 (40%)

<sup>1</sup> Note: Area expressed as m<sup>2</sup> except for Intertidal habitats and Surfgrass bed, which are expressed in mi.

<sup>2</sup> Note: These are proposed MPA designations, NOT levels of protection assigned by the SAT

<sup>3</sup> Note: The SMR category groups together MPAs that are designated as SMR or SMRMA.

<sup>4</sup> 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.

**Marine Life Protection Act Initiative  
North Central Coast Project  
Staff Summary of Area and Habitats in Draft Proposal 2 (JD)  
February 1, 2008**

**Overall Summary for Draft Proposal 2 (JD) (12/12/07 version)**

Type of MPA <sup>1</sup>	# Proposed	Area (mi <sup>2</sup> )	% of Study Region
State Marine Reserve (SMR)	11	33.11	4.34%
State Marine Park (SMP)	2	3.48	0.46%
State Marine Conservation Area (SMCA)	9	98.76	12.94%
<b>All MPAs combined</b>	<b>22</b>	<b>135.35</b>	<b>17.74%</b>

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

**Summary of SMCAs by Protection Level for Draft Proposal 2 (JD) (12/12/07 version)**

SMCA Protection Level	# Proposed	Area (mi <sup>2</sup> )	% of Study Region
High Protection	1	9.92	1.30%
Moderate-High Protection	6	83.77	10.98%
Moderate Protection	0	0.00	0.00%
Low Protection	2	5.07	0.66%
<b>All SMCAs combined</b>	<b>9</b>	<b>98.76</b>	<b>12.94%</b>

**Individual MPAs in Draft Proposal 2 (JD) (12/12/07 version)**

MPA Name	Size (mi <sup>2</sup> )	Along-shore span (mi) <sup>A</sup>	Depth range (ft)
Point Arena SMR	5.23	3.4	0-175
Point Arena SMCA	7.60	3.4	153-324
Saunders Reef Inshore SMCA	4.21	3.7	0-130
Saunders Reef Offshore SMCA	9.19	3.7	87-276
Black Point SMR	6.45	4.3	0-223
Black Point SMCA	11.71	4.3	198-298
Salt Point SMP	2.82	5	0-153
Gerstle Cove SMR	0.01	0.2	0-10
Russian River SMR	0.35	1	0-10
Russian River SMCA	0.86	1.8	0-57
Bodega Head SMR	5.60	3.9	0-199
Bodega Head SMCA	18.88	6.7	0-267
Estero Americano SMR	0.15	1.2	0-10
Estero de San Antonio SMR	0.09	1.2	0-10
Tomales Bay SMP	0.66	1.6	0-10
Point Reyes SMR	3.18	4.2	0-118
Point Reyes SMCA	28.19	7.6	0-244
Drakes Bay SMR	4.02	7.2	0-10
Fitzgerald SMR	5.00	3.4	0-131
Fitzgerald SMCA	8.20	3.4	87-172
South East Farallon Island SMR	3.03	NA	0-238
South East Farallon Island SMCA	9.92	NA	161-382

<sup>A</sup> Note: Alongshore span measured as direct line from one end of the MPA to the other.

### Habitat Representation in Draft Proposal 2 (JD) (12/12/07 version)

	Area <sup>1</sup> (mi <sup>2</sup> ) and percentage of mapped habitat in proposed MPA designations in the study region <sup>2</sup>			
Habitat	SMR	SMP	SMCA	Total MPAs
<b>Intertidal</b>				
Sandy or gravel beach	7.91 (7%)	1.14 (1%)	5.23 (4%)	14.28 (12%)
Rocky intertidal & cliff	32.4 (19%)	7.60 (5%)	6.33 (4%)	46.33 (28%)
Coastal marsh	21.7 (42%)	6.10 (12%)	0.00 (0%)	27.80 (54%)
Tidal flats	5.71 (31%)	0.15 (1%)	0.00 (0%)	5.86 (32%)
<b>Seagrass beds: Surfgrass</b>	13.13 (19%)	0.00 (0%)	0.69 (1%)	13.81 (20%)
<b>Seagrass beds: Eelgrass</b>	3.78 (62%)	0.00 (0%)	0.00 (0%)	3.78 (62%)
<b>Estuary</b>	4.42 (23%)	0.64 (3%)	0.00 (0%)	5.06 (26%)
<b>Soft bottom</b>				
0-30 meters	7.23 (5%)	0.70 (0%)	1.17 (1%)	9.10 (6%)
30-100 meters	10.56 (3%)	0.51 (0%)	74.50 (18%)	85.56 (21%)
100-200 meters <sup>3</sup>	NA	NA	NA	NA
>200 meters <sup>3</sup>	NA	NA	NA	NA
<b>Hard bottom</b>				
0-30 meters	4.40 (13%)	1.05 (3%)	2.74 (8%)	8.19 (24%)
30-100 meters	5.17 (10%)	0.67 (1%)	9.12 (17%)	14.97 (29%)
100-200 meters <sup>3</sup>	NA	NA	NA	NA
>200 meters <sup>3</sup>	NA	NA	NA	NA
<b>Kelp forest</b>				
Kelp 1989	0.33 (10%)	0.32 (10%)	0.67 (21%)	1.31 (41%)
Kelp 1999	0.17 (9%)	0.11 (6%)	0.29 (16%)	0.56 (32%)
Kelp 2002	0.13 (7%)	0.42 (23%)	0.00 (0%)	0.55 (30%)
Kelp 2003	0.10 (8%)	0.10 (8%)	0.20 (16%)	0.39 (33%)
Kelp 2004	0.10 (7%)	0.17 (12%)	0.17 (12%)	0.44 (31%)
Kelp 2005	0.09 (11%)	0.03 (4%)	0.23 (26%)	0.36 (40%)
Average kelp	0.15 (9%)	0.19 (11%)	0.26 (15%)	0.60 (35%)

<sup>1</sup> Note: Area expressed as mi<sup>2</sup> except for Intertidal habitats and Surfgrass bed, which are expressed in mi.

<sup>2</sup> Note: These are proposed MPA designations, NOT levels of protection assigned by the SAT

<sup>3</sup> 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.

**Marine Life Protection Act Initiative  
North Central Coast Project  
Staff Summary of Area and Habitats in Draft Proposal 3 (TC)  
February 1, 2008**

**Overall Summary for Draft Proposal 3 (TC) (12/12/07 version)**

Type of MPA <sup>1</sup>	# Proposed	Area (mi <sup>2</sup> )	% of Study Region
State Marine Reserve (SMR)	14	78.07	10.23%
State Marine Park (SMP)	2	7.26	0.95%
State Marine Conservation Area (SMCA)	14	168.82	22.13%
<b>All MPAs combined</b>	<b>30</b>	<b>254.15</b>	<b>33.31%</b>

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

**Summary of SMCAs by Protection Level for Draft Proposal 3 (TC) (12/12/07 version)**

SMCA Protection Level	# Proposed	Area (mi <sup>2</sup> )	% of Study Region
High Protection	4	34.27	4.49%
Moderate-High Protection	6	69.97	9.17%
Moderate Protection	0	0.00	0.00%
Low Protection	4	64.58	8.46%
<b>All SMCAs combined</b>	<b>14</b>	<b>168.82</b>	<b>22.13%</b>

**Individual MPAs in Draft Proposal 3 (TC) (12/12/07 version)**

MPA Name	Size (mi <sup>2</sup> )	Along-shore span (mi) <sup>A</sup>	Depth range (ft)
Point Arena SMR	4.67	3.4	0-180
Point Arena SMCA	7.65	3.4	153-324
Saunder's Reef inshore SMCA	5.50	3.9	0-165
Saunder's Reef offshore SMCA	7.78	3.9	143-278
Del Mar Landing SMP	0.09	0.3	0-55
Black Point SMR	11.88	6.5	0-240
Salt Point SMP	7.17	4.2	0-240
Black Salt SMCA	21.10	10.7	231-300
Gerstle Cove SMCA	0.01	0.2	0-10
Russian River SMCA	9.55	8	0-120
Charter Beach SMCA	0.25	1.4	0-12
Bodega Head SMR	13.76	5	0-258
Bodega Head SMCA	5.74	5	192-266
Estero de Americano SMR	0.15	1.2	0-10
Estero De San Antonio SMR	0.11	1.2	0-10
Tomales Bay SMR	1.51	2.5	0-10
Point Reyes SMR	8.49	4.5	0-139
Point Reyes SMCA	13.20	4.5	51-217
Drakes Estero SMR	4.05	7.2	0-10
Duxbury SMR	5.11	4.3	0-92
Duxbury SMCA	11.91	4.3	75-150
Bolinas Lagoon SMR	1.74	2.3	0-10
Moss Beach SMR	10.08	4.9	0-150
Moss Beach SMCA	8.48	4.9	98-170
Pescadero Estuary SMR	0.06	1.2	0-10
N Farallon SMR	11.00	NA	0-275
N Farallon SMCA	7.04	NA	218-261

SE Farallon SMR	5.45	NA	0-199
SE Farallon SMCA	11.80	NA	171-382
Farallones SMCA	58.81	NA	78-372

<sup>A</sup> Note: Alongshore span measured as direct line from one end of the MPA to the other.

### Habitat Representation in Draft Proposal 3 (TC) (12/12/07 version)

Habitat	Area <sup>1</sup> (mi <sup>2</sup> ) and percentage of mapped habitat in proposed MPA designations in the study region <sup>2</sup>			
	SMR	SMP	SMCA	Total MPAs
<b>Intertidal</b>				
Sandy or gravel beach	17.92 (15%)	0.62 (1%)	6.89 (6%)	25.44 (21%)
Rocky intertidal & cliff	42.77 (26%)	6.79 (4%)	13.00 (8%)	62.56 (37%)
Coastal marsh	37.62 (73%)	0.00 (0%)	2.27 (4%)	39.89 (78%)
Tidal flats	9.73 (53%)	0.00 (0%)	0.00 (0%)	9.73 (53%)
<b>Seagrass beds: Surfgrass</b>	20.36 (30%)	0.00 (0%)	1.59 (2%)	21.95 (32%)
<b>Seagrass beds: Eelgrass</b>	3.91 (65%)	0.00 (0%)	0.00 (0%)	3.91 (65%)
<b>Estuary</b>	7.35 (38%)	0.00 (0%)	0.34 (2%)	7.69 (40%)
<b>Soft bottom</b>				
0-30 meters	14.75 (10%)	0.05 (0%)	4.47 (3%)	19.27 (13%)
30-100 meters	32.04 (8%)	4.91 (1%)	140.04 (34%)	176.98 (43%)
100-200 meters <sup>3</sup>	NA	NA	NA	NA
>200 meters <sup>3</sup>	NA	NA	NA	NA
<b>Hard bottom</b>				
0-30 meters	6.96 (20%)	0.91 (3%)	1.96 (6%)	9.82 (29%)
30-100 meters	11.51(22%)	0.86 (2%)	10.40 (20%)	22.77 (44%)
100-200 meters <sup>3</sup>	NA	NA	NA	NA
>200 meters <sup>3</sup>	NA	NA	NA	NA
<b>Kelp forest</b>				
Kelp 1989	0.41 (13%)	0.28 (9%)	0.62 (19%)	1.31 (41%)
Kelp 1999	0.18 (10%)	0.08 (5%)	0.23 (13%)	0.49 (28%)
Kelp 2002	0.38 (21%)	0.33 (18%)	0.09 (5%)	0.80 (44%)
Kelp 2003	0.13 (11%)	0.08 (6%)	0.19 (16%)	0.40 (33%)
Kelp 2004	0.12 (8%)	0.11 (8%)	0.16 (12%)	0.39 (28%)
Kelp 2005	0.01 (1%)	0.03 (3%)	0.23 (25%)	0.27 (30%)
Average kelp	0.20 (12%)	0.15 (9%)	0.25 (15%)	0.61 (35%)

<sup>1</sup> Note: Area expressed as mi<sup>2</sup> except for Intertidal habitats and Surfgrass bed, which are expressed in mi.

<sup>2</sup> Note: These are proposed MPA designations, NOT levels of protection assigned by the SAT

<sup>3</sup> 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.

**Marine Life Protection Act Initiative  
North Central Coast Project  
Staff Summary of Area and Habitats in Draft Proposal 4 (JC)  
February 1, 2008**

**Overall Summary for Draft Proposal 4 (JC) (12/12/07 version)**

Type of MPA <sup>1</sup>	# Proposed	Area (mi <sup>2</sup> )	% of Study Region
State Marine Reserve (SMR) <sup>2</sup>	15	119.18	15.62%
State Marine Park (SMP)	1	2.11	0.28%
State Marine Conservation Area (SMCA)	9	93.86	12.30%
<b>All MPAs combined</b>	<b>25</b>	<b>215.16</b>	<b>28.20%</b>

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

<sup>2</sup> Note: The SMR category groups together MPAs that are designated as SMR or SMRMA.

**Summary of SMCAs by Protection Level for Draft Proposal 4 (JC) (12/12/07 version)**

SMCA Protection Level	# Proposed	Area (mi <sup>2</sup> )	% of Study Region
High Protection	3	28.80	3.77%
Moderate-High Protection	4	45.84	6.01%
Moderate Protection	1	14.35	1.88%
Low Protection	1	4.87	0.64%
<b>All SMCAs combined</b>	<b>9</b>	<b>93.86</b>	<b>12.30%</b>

**Individual MPAs in Draft Proposal 4 (JC) (12/12/07 version)**

MPA Name	Size (mi <sup>2</sup> )	Along-shore span (mi) <sup>A</sup>	Depth range (ft)
Point Arena SMR	5.44	3.0	0-173
Point Arena SMCA	6.95	3.0	153-324
Sea Lion Cove SMR	0.12	NA	0-34
Saunders Reef SMCA	4.87	3.7	0-167
Saunders Reef SMCA (offshore)	8.48	3.7	131-278
Del Mar Landing SMR	0.09	0.3	0-55
Black to Salt Point SMR	36.26	9.6	0-300
Salt Point SMP	2.11	1.6	0-241
Gerstle Cove SMR	0.01	0.2	0-10
Russian River SMR	1.28	2.7	0-59
Bodega SMR	14.35	5.2	0-258
Bodega SMCA	9.84	6.7	113-267
Tomales Bay SMRMA	1.47	2.5	0-10
Point Reyes SMR	4.83	4.4	0-132
Point Reyes SMCA	13.19	4.4	51-217
Drakes Estero SMR	4.04	7.2	0-10
Double Point SMR	3.81	4.1	0-90
Double Point SMCA	11.04	4.1	62-150
Duxbury SMCA	14.35	3.5	0-146
Fitzgerald - Devils Slide SMR	14.10	7.3	0-150
Fitzgerald - Devils Slide SMCA	13.13	7.3	92-172

San Gregorio SMR	12.53	3.4	0-140
Farallon North SMR	11.69	NA	0-275
Southeast Farallon SMR	9.16	NA	0-284
Southeast Farallon SMCA	12.01	NA	160-382

<sup>A</sup> Note: Alongshore span measured as direct line from one end of the MPA to the other.

### Habitat Representation in Draft Proposal 4 (JC) (12/12/07 version)

Habitat	Area <sup>1</sup> (mi <sup>2</sup> ) and percentage of mapped habitat in proposed MPA designations in the study region <sup>2</sup>			
	SMR <sup>3</sup>	SMP	SMCA	Total MPAs
<b>Intertidal</b>				
Sandy / gravel beach	21.50 (18%)	0.24 (0%)	0.92 (1%)	22.67 (19%)
Rocky intertidal & cliff	55.74 (33%)	2.53 (2%)	8.91 (5%)	67.18 (40%)
Coastal marsh	28.19 (55%)	0.00 (0%)	0.00 (0%)	28.19 (55%)
Tidal flats	5.55 (30%)	0.00 (0%)	0.00 (0%)	5.55 (30%)
<b>Seagrass beds: Surfgrass</b>	23.23 (34%)	0.00 (0%)	3.19 (5%)	26.42 (38%)
<b>Seagrass beds: Eelgrass</b>	3.81 (63%)	0.00 (0%)	0.00 (0%)	3.81 (63%)
<b>Estuary</b>	5.63 (29%)	0.00 (0%)	0.00 (0%)	5.63 (29%)
<b>Soft bottom</b>				
0-30 meters	21.02 (14%)	0.00 (0%)	3.86 (3%)	24.88 (17%)
30-100 meters	58.72 (14%)	1.22 (0%)	69.56 (17%)	129.51 (31%)
100-200 meters <sup>4</sup>	NA	NA	NA	NA
>200 meters <sup>4</sup>	NA	NA	NA	NA
<b>Hard bottom</b>				
0-30 meters	7.91 (23%)	0.28 (1%)	4.50 (13%)	12.70 (37%)
30-100 meters	14.82 (28%)	0.46 (1%)	6.22 (12%)	21.50 (41%)
100-200 meters <sup>4</sup>	NA	NA	NA	NA
>200 meters <sup>4</sup>	NA	NA	NA	NA
<b>Kelp forest</b>				
Kelp 1989	0.73 (23%)	0.08 (2%)	0.62 (19%)	1.43 (45%)
Kelp 1999	0.31 (17%)	0.03 (2%)	0.24 (13%)	0.57 (32%)
Kelp 2002	0.70 (38%)	0.15 (8%)	0.01 (0%)	0.85 (46%)
Kelp 2003	0.19 (16%)	0.03 (3%)	0.19 (16%)	0.41 (34%)
Kelp 2004	0.25 (18%)	0.09 (7%)	0.16 (11%)	0.50 (35%)
Kelp 2005	0.08 (9%)	0.00 (0%)	0.23 (25%)	0.31 (35%)
Average kelp	0.38 (22%)	0.06 (4%)	0.24 (14%)	0.68 (40%)

<sup>1</sup> Note: Area expressed as mi<sup>2</sup> except for Intertidal habitats and Surfgrass bed, which are expressed in mi.

<sup>2</sup> Note: These are proposed MPA designations, NOT levels of protection assigned by the SAT

<sup>3</sup> Note: The SMR category groups together MPAs that are designated as SMR or SMRMA.

<sup>4</sup> 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.

**Marine Life Protection Act Initiative  
North Central Coast Project  
Staff Summary of Area and Habitats in Draft External Proposal A (XA)  
February 1, 2008**

**Overall Summary for Draft External Proposal A (XA) (1/2/08 version)**

Type of MPA <sup>1</sup>	# Proposed	Area (mi <sup>2</sup> )	% of Study Region
State Marine Reserve (SMR)	12	34.11	4.47%
State Marine Park (SMP)	0	0.00	0.00%
State Marine Conservation Area (SMCA)	7	84.75	11.11%
<b>All MPAs combined</b>	<b>20</b>	<b>120.60</b>	<b>15.81%</b>

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

**Summary of SMCAs by Protection Level for Draft External Proposal A (XA) (1/2/08 version)**

SMCA Protection Level	# Proposed	Area (mi <sup>2</sup> )	% of Study Region
High Protection	1	7.60	1.00%
Moderate-High Protection	5	74.04	9.70%
Moderate Protection	1	3.11	0.41%
Low Protection	0	0.00	0.00%
<b>All SMCAs combined</b>	<b>7</b>	<b>84.75</b>	<b>11.11%</b>

**Individual MPAs in Draft External Proposal A (XA) (1/2/08 version)**

MPA Name	Size (mi <sup>2</sup> )	Along-shore span (mi) <sup>A</sup>	Depth range (ft)
Arena Rock SMR	5.23	3.4	0-175
Arena Rock SMCA	7.60	3.4	153-324
Black Point SMR	5.34	6.86	0-174
Black Point SMCA	22.35	6.7	27-298
Gerstle Cove SMR	0.01	0.2	0-10
Russian River SMR	1.28	2.7	0-59
Bodega Head SMR	5.60	3.9	0-199
Bodega Head SMCA	18.88	6.7	0-267
Estero Americano SMR	0.15	1.2	0-10
Estero San Antonio SMR	0.09	1.2	0-10
Tomales Bay SMR	1.62	5.2	0-10
Point Reyes SMR	4.83	4.2	0-132
Point Reyes SMCA	13.19	7.6	51-217
Drakes Bay SMCA	3.11	15.2	0-10
Limantour SMR	0.91	7.5	0-10
Bolinas Lagoon SMR	1.74	2.3	0-10
Fitzgerald SMR	5.00	3.4	0-131
Fitzgerald SMCA	8.20	3.4	87-172
Southeast Farallone SMR	4.04	3.2	0-176
Southeast Farallone SMCA	11.42	0.4	45-382

<sup>A</sup> Note: Alongshore span measured as direct line from one end of the MPA to the other.

**Habitat Representation in Draft External Proposal A (XA) (1/2/08 version)**

Habitat	Area <sup>1</sup> (mi <sup>2</sup> ) and percentage of mapped habitat in proposed MPA designations in the study region <sup>2</sup>			
	SMR	SMP	SMCA	Total MPAs
<b>Intertidal</b>				
Sandy or gravel beach	11.36 (10%)	0.00 (0%)	0.69 (1%)	12.05 (10%)
Rocky intertidal & cliff	33.57 (20%)	0.00 (0%)	6.61 (4%)	40.18 (24%)
Coastal marsh	16.86 (33%)	0.00 (0%)	12.40 (24%)	29.26 (57%)
Tidal flats	4.35 (24%)	0.00 (0%)	2.07 (11%)	6.42 (35%)
<b>Seagrass beds: Surfgrass</b>	13.80 (20%)	0.00 (0%)	0.67 (1%)	14.47 (21%)
<b>Seagrass beds: Eelgrass</b>	1.05 (17%)	0.00 (0%)	2.86 (47%)	3.91 (65%)
<b>Estuary</b>	2.98 (15%)	0.00 (0%)	3.02 (16%)	6.01 (31%)
<b>Soft bottom</b>				
0-30 meters	6.47 (4%)	0.00 (0%)	4.08 (3%)	10.54 (7%)
30-100 meters	8.94 (2%)	0.00 (0%)	67.66 (16%)	76.60 (19%)
100-200 meters <sup>3</sup>	NA	NA	NA	NA
>200 meters <sup>3</sup>	NA	NA	NA	NA
<b>Hard bottom</b>				
0-30 meters	4.93 (14%)	0.00 (0%)	1.36 (4%)	6.29 (18%)
30-100 meters	5.83 (11%)	0.00 (0%)	8.33 (16%)	14.16 (27%)
100-200 meters <sup>3</sup>	NA	NA	NA	NA
>200 meters <sup>3</sup>	NA	NA	NA	NA
<b>Kelp forest</b>				
Kelp 1989	0.37 (12%)	0.00 (0%)	0.01 (0%)	0.38 (12%)
Kelp 1999	0.18 (10%)	0.00 (0%)	0.00 (0%)	0.18 (10%)
Kelp 2002	0.18 (10%)	0.00 (0%)	0.00 (0%)	0.18 (10%)
Kelp 2003	0.17 (14%)	0.00 (0%)	0.00 (0%)	0.17 (14%)
Kelp 2004	0.16 (11%)	0.00 (0%)	0.00 (0%)	0.16 (11%)
Kelp 2005	0.15 (17%)	0.00 (0%)	0.00 (0%)	0.15 (17%)
Average kelp	0.20 (12%)	0.00 (0%)	0.00 (0%)	0.20 (12%)

<sup>1</sup> Note: Area expressed as mi<sup>2</sup> except for Intertidal habitats and Surfgrass bed, which are expressed in mi.

<sup>2</sup> Note: These are proposed MPA designations, NOT levels of protection assigned by the SAT

<sup>3</sup> 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.