

**California Marine Life Protection Act Initiative, North Central Coast Project
Staff Summary of Area and Habitats in Draft MPA Array Emerald, Option A
Revised November 15, 2007**

Overall Summary for Emerald, Option A (10/19/07 version)

Type of MPA ¹	# proposed	Area (mi ²)	% of study region
State Marine Reserve (SMR)	16	88.64	11.62%
State Marine Park (SMP)	2	3.39	0.44%
State Marine Conservation Area (SMCA)	8	148.28	19.43%
All MPAs combined	26	240.30	31.50%

¹ Note: These are proposed MPA designations, NOT levels of protection assigned by the MLPA SAT.

Individual MPAs in Emerald, Option A (10/19/07 version)

MPA Name ^A	Size (mi ²)	Along-shore span (mi) ^B	Depth range (ft)
Pt. Arena/ Arena Rock SMR	4.46	3.8	0-164
Pt. Arena/ Arena Rock SMCA	18.75	5.1	0-324
Del Mar Landing SMP	0.09	0.3	0-55
Black Point to Salt Point SMR	11.30	8.1	0-231
Black Point to Salt Point SMCA	18.09	8.1	212-296
Salt Point SMP	3.30	2.9	0-221
Fort Ross SMCA	0.11	0.9	0-32
Russian River SMR	2.61	2.0	0-84
Russian River Estuary SMR	0.06	0.4	0-10
Bodega Head SMR	7.25	7.1	0-132
Bodega Head SMCA	21.66	7.1	54-267
Estero de Americano SMR	0.15	1.4	0-10
Estero de San Antonio SMR	0.11	2.0	0-10
Tom's Point SMR	1.74	2.2	0-10
Tomales Bay South SMR	1.68	3.2	0-10
Pt. Reyes Headlands Area SMR	8.19	7.9	0-125
Pt. Reyes Headlands Area SMCA	29.47	9.5	0-217
Drakes - Limantour Estero SMR	4.02	7.2	0-10
Duxbury Reef SMCA	0.66	3.4	0-10
Bolinas Lagoon SMR	1.74	4.1	0-10
Fitzgerald SMR	10.91	7.0	0-137
Fitzgerald SMCA	15.87	7.0	89-170
Pescadero Marsh SMR	0.06	1.5	0-10
Farallon South SMR	30.70	NA	0-382
North Farallon SMR	3.65	NA	0-242
Farallon SMCA	43.67	NA	173-372

^A Symbols following proposed MPA name indicate level of protection as determined by the MLPA Master Plan Science Advisory Team. (***) indicates SMCA High, (**) indicates SMCA Moderate, (*) indicates SMCA Low, and (^) indicates SMP Low. Level of protection was used in the SAT evaluation.

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

Habitat Representation in Emerald, Option A (10/19/07 version)

Habitat	Percentage of mapped habitat in proposed MPA designations in the study region ¹			
	SMR	SMP	SMCA	Total MPAs
Intertidal				
Sandy or gravel beaches	17.54%	0.44%	5.73%	32.91%
Rocky intertidal and cliff	28.84%	2.57%	1.50%	77.34%
Coastal marsh	77.34%	0.00%	0.00%	64.38%
Tidal flats	63.72%	0.00%	0.66%	32.52%
Seagrass beds (0-30m): Surfgrass	27.59%	0.00%	4.94%	77.26%
Seagrass beds (0-30m): Eelgrass	77.26%	0.00%	0.00%	47.79%
Estuary	47.79%	0.00%	0.00%	32.91%
Soft bottom				
0-30 meters	11.86%	0.02%	4.64%	16.52%
30-100 meters	8.73%	0.44%	28.97%	38.14%
100-200 meters	65.17%	0.00%	34.69%	99.85%
>200 meters	N/A	N/A	N/A	N/A
Hard bottom				
0-30 meters	21.44%	1.58%	2.29%	25.31%
30-100 meters	16.17%	1.20%	22.62%	39.99%
100-200m	N/A	N/A	N/A	N/A
>200 meters	N/A	N/A	N/A	N/A
Kelp forest				
Kelp 1989	20.93%	5.11%	0.65%	26.68%
Kelp 1999	16.42%	2.99%	0.35%	19.76%
Kelp 2002	29.23%	12.55%	1.83%	43.61%
Kelp 2003	16.20%	2.39%	2.16%	20.74%
Kelp 2004	15.27%	7.05%	1.75%	24.07%
Kelp 2005	12.33%	1.04%	1.01%	14.38%
Average kelp	19.89%	5.76%	1.18%	26.83%

¹Note: These are proposed MPA designations, NOT levels of protection assigned by the SAT

**California Marine Life Protection Act Initiative, North Central Coast Project
Staff Summary of Area and Habitats in Draft MPA Array Emerald, Option B
Revised November 15, 2007**

Overall Summary for Emerald, Option B (10/19/07 version)

Type of MPA¹	# Proposed	Area (mi²)	% of study region
State Marine Reserve (SMR)	14	67.22	8.81%
State Marine Park (SMP)	2	6.73	0.88%
State Marine Conservation Area (SMCA)	14	113.65	14.90%
All MPAs combined	31	193.47	25.36%

¹ Note: These are proposed MPA designations, NOT levels of protection assigned by the MLPA SAT.

Individual MPAs in Emerald, Option B (10/19/07 version)

MPA Name^A	Size (mi²)	Along-shore span (mi)^B	Depth range (ft)
Pt. Arena/ Arena Rock Inshore SMCA	4.46	3.8	0-164
Pt. Arena/ Arena Rock Offshore SMCA	18.75	5.1	0-324
Saunders Reef to Fish rocks SMR	6.34	3.7	0-237
Saunders Reef to Fish rocks SMCA	14.74	5.5	0-293
Del Mar Landing SMP	0.09	0.3	0-55
Stewarts Point SMCA	1.63	4.7	0-100
Black Point to Salt Point SMR	4.95	4.7	62-228
Black Point to Salt Point SMCA	10.32	4.7	220-289
Rocky Point to Salt Point SMP	6.64	5.6	0-222
Fort Ross SMCA	0.11	0.9	0-32
Russian River Estuary SMR	0.06	0.4	0-10
Bodega Head SMR	15.85	7.1	0-231
Bodega Head SMCA	13.09	7.1	149-267
Estero de Americano SMR	0.15	1.4	0-10
Estero De San Antonio SMR	0.11	2	0-10
Tom's Point SMCA	1.74	2.2	0-10
Tomales Bay South SMR	1.68	3.2	0-10
Point Reyes Headlands Area SMR	5.86	4.2	0-180
Existing Pt Reyes SMCA	0.83	4.2	0-80
Point Reyes Headlands Area SMCA	9.55	4.2	161-217
Drakes - Limantour Estero SMR	3.99	7.2	0-10
Duxbury Reef SMCA	0.66	3.4	0-10
Bolinas Lagoon SMR	1.74	4.1	0-10
Fitzgerald SMR	5.52	3.4	0-140
Fitzgerald SMCA	21.52	7.2	0-170
Pescadero SMR	20.10	5.2	0-210
Pescadero Marsh SMR	0.06	1.5	0-10
North Farallon SMR	3.65	NA	0-242

North Farallon SMCA	6.41	NA	232-275
Southeast Farallon SMR	3.02	NA	0-238
Southeast Farallon SMCA	9.83	NA	161-382

^A Symbols following proposed MPA name indicate level of protection as determined by the MLPA Master Plan Science Advisory Team. (***) indicates SMCA High, (**) indicates SMCA Moderate, (*) indicates SMCA Low, and (^) indicates SMP Low. Level of protection was used in the SAT evaluation.

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

Habitat Representation in Emerald, Option B (10/19/07 version)

Habitat	Percentage of mapped habitat in proposed MPA designations in the study region ¹			
	SMR	SMP	SMCA	Total MPAs
Intertidal				
Sandy or gravel beaches	9.37%	0.75%	8.61%	18.73%
Rocky intertidal and cliff	16.55%	5.35%	14.68%	36.57%
Coastal marsh	75.04%	0.00%	2.30%	77.34%
Tidal flats	52.14%	0.00%	8.95%	61.09%
Seagrass beds (0-30m): Surfgrass	18.55%	0.00%	17.04%	35.59%
Seagrass beds (0-30m): Eelgrass	64.29%	0.00%	12.49%	76.79%
Estuary	38.82%	0.00%	8.94%	47.75%
Soft bottom				
0-30 meters	8.87%	0.04%	6.52%	15.44%
30-100 meters	6.54%	0.87%	19.46%	26.88%
100-200 meters	0.00%	0.00%	69.01%	69.01%
>200 meters	N/A	N/A	N/A	N/A
Hard bottom				
0-30 meters	18.86%	3.32%	8.33%	30.51%
30-100 meters	19.47%	2.42%	14.33%	36.22%
100-200m	N/A	N/A	N/A	N/A
>200 meters	N/A	N/A	N/A	N/A
Kelp forest				
Kelp 1989	9.96%	10.67%	26.83%	47.46%
Kelp 1999	15.23%	6.39%	21.77%	43.39%
Kelp 2002	0.25%	24.80%	13.92%	38.97%
Kelp 2003	4.67%	8.66%	24.08%	37.42%
Kelp 2004	2.70%	14.02%	18.41%	35.12%
Kelp 2005	6.17%	3.71%	31.42%	41.31%
Average kelp	7.33%	12.27%	22.97%	42.56%

¹ Note: These are proposed MPA designations, NOT levels of protection assigned by the SAT

**California Marine Life Protection Act Initiative, North Central Coast Project
Staff Summary of Area and Habitats in Draft MPA Array Jade, Option A
Revised November 15, 2007**

Overall Summary for Jade, Option A (10/19/07 version)

Type of MPA ¹	# Proposed	Area (mi ²)	% of study region
State Marine Reserve (SMR)	13	80.91	10.60%
State Marine Park (SMP)	1	1.56	0.21%
State Marine Conservation Area (SMCA)	10	204.81	26.84%
All MPAs combined	24	287.28	37.65%

¹ Note: These are proposed MPA designations, NOT levels of protection assigned by the MLPA SAT.

Individual MPAs in Jade, Option A (10/19/07 version)

MPA Name ^A	Size (mi ²)	Along-shore span (mi) ^B	Depth range (ft)
Point Arena SMR	7.40	4.0	0-194
Point Arena SMCA	8.67	4.0	153-324
Saunders Reef Inshore SMCA	11.73	5.0	0-228
Saunders Reef Offshore SMCA	7.38	5.0	197-297
Del Mar SMR	0.09	0.3	0-55
Sonoma Coast SMR	30.94	8.3	0-298
Salt Point SMP	1.56	2.2	0-182
Gerstle Cove SMR	0.01	0.2	0-36
Russian River SMR	0.83	2.6	0-42
Bodega Head SMR	13.35	6.5	0-229
Bodega Head SMCA	11.46	6.5	144-267
Tomales Bay SMR	0.65	1.7	0-10
Point Reyes SMR	4.69	4.1	0-142
Point Reyes SMCA	38.68	10.2	0-244
Drakes Estero SMR	4.04	7.2	0-10
Duxbury Reef SMCA	25.30	6.2	0-136
Duxbury Existing SMCA	0.34	1.6	0-10
Redwood Creek SMR	0.10	0.7	0-21
Fitzgerald SMR	10.38	6.9	0-140
Fitzgerald SMCA	15.41	6.9	89-172
Farallon Islands SMCA	59.10	NA	78-372
SE Farallon SMCA	26.73	NA	79-382
North Farallon SMR	3.58	NA	0-237
SE Farallon SMR	4.85	NA	0-238
Point Arena SMR	7.40	4.0	0-194
Point Arena SMCA	8.67	4.0	153-324

^A Symbols following proposed MPA name indicate level of protection as determined by the MLPA Master Plan Science Advisory Team. (***) indicates SMCA High, (**) indicates SMCA Moderate, (*) indicates SMCA Low, and (^) indicates SMP Low. Level of protection was used in the SAT evaluation.

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

Habitat Representation in Jade, Option A (10/19/07 version)

Habitat	Percentage of mapped habitat in proposed MPA designations in the study region ¹			
	SMR	SMP	SMCA	Total MPAs
Intertidal				
Sandy or gravel beaches	12.46%	0.08%	7.46%	20.01%
Rocky intertidal and cliff	29.40%	0.43%	8.40%	38.22%
Coastal marsh	52.89%	0.00%	0.00%	52.89%
Tidal flats	27.58%	0.00%	2.27%	29.85%
Seagrass beds (0-30m): Surfgrass	26.55%	0.00%	14.65%	41.20%
Seagrass beds (0-30m): Eelgrass	60.77%	0.00%	0.04%	60.81%
Estuary	24.70%	0.00%	0.00%	24.70%
Soft bottom				
0-30 meters	8.23%	0.00%	5.13%	13.36%
30-100 meters	8.85%	0.10%	38.28%	47.23%
100-200 meters	0.00%	0.00%	100.00%	100.00%
>200 meters	N/A	N/A	N/A	N/A
Hard bottom				
0-30 meters	22.01%	1.25%	16.36%	39.62%
30-100 meters	28.40%	1.04%	24.48%	53.92%
100-200m	N/A	N/A	N/A	N/A
>200 meters	N/A	N/A	N/A	N/A
Kelp forest				
Kelp 1989	21.85%	4.18%	20.69%	46.72%
Kelp 1999	17.01%	2.43%	18.43%	37.86%
Kelp 2002	29.19%	10.00%	4.07%	43.26%
Kelp 2003	16.44%	1.87%	17.23%	35.54%
Kelp 2004	16.59%	5.12%	12.83%	34.55%
Kelp 2005	13.80%	0.21%	25.25%	39.26%
Average kelp	20.62%	4.50%	16.53%	41.65%

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

**California Marine Life Protection Act Initiative, North Central Coast Project
Staff Summary of Area and Habitats in Draft MPA Array Jade, Option B
Revised November 15, 2007**

Overall Summary for Jade, Option B (10/19/07 version)

Type of MPA ¹	# Proposed	Area (mi ²)	% of study region
State Marine Reserve (SMR)	10	39.84	5.22%
State Marine Park (SMP)	0	0.00	0.00%
State Marine Conservation Area (SMCA)	7	111.40	14.60%
All MPAs combined	17	130.00	19.82%

¹ Note: These are proposed MPA designations, NOT levels of protection assigned by the SAT.

Individual MPAs in Jade, Option B (10/19/07 version)

MPA Name ^A	Size (mi ²)	Along-shore span (mi) ^B	Depth range (ft)
Point Arena SMR	8.87	4.8	0-222
Point Arena SMCA	9.65	4.8	154-324
Black Point SMR	3.63	3.9	0-174
Black Point SMCA	11.92	3.9	146-294
Gerstle Cove SMR	0.01	0.2	0-36
Russian River SMR	0.83	2.6	0-42
Bodega Head SMR	6.18	4.1	0-179
Bodega Head SMCA	18.62	6.5	0-267
Tomales Bay SMR	0.65	1.7	0-10
Point Reyes SMR	3.78	4.1	0-131
Point Reyes SMCA	39.58	10.2	0-244
Drakes Estero SMR	4.04	7.2	0-10
Duxbury Existing SMCA	0.66	3.4	0-10
Fitzgerald SMR	7.00	4.4	0-140
Fitzgerald SMCA	18.78	6.8	0-172
SE Farallon SMR	4.85	NA	0-238
Farallon Island SMCA	12.19	NA	121-382

^A Symbols following proposed MPA name indicate level of protection as determined by the MLPA Master Plan Science Advisory Team. (***) indicates SMCA High, (**) indicates SMCA Moderate, (*) indicates SMCA Low, and (^) indicates SMP Low. Level of protection was used in the SAT evaluation.

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

Habitat Representation in Jade, Option B (10/19/07 version)

Habitat	Percentage of mapped habitat in proposed MPA designations in the study region ¹			
	SMR	SMP	SMCA	Total MPAs
Intertidal				
Sandy or gravel beaches	9.83%	0.00%	5.77%	15.60%
Rocky intertidal and cliff	23.31%	0.00%	2.44%	25.75%
Coastal marsh	52.89%	0.00%	0.00%	52.89%
Tidal flats	27.58%	0.00%	2.39%	29.97%
Seagrass beds (0-30m): Surfgrass	20.93%	0.00%	9.96%	30.89%
Seagrass beds (0-30m): Eelgrass	60.77%	0.00%	0.07%	60.84%
Estuary	24.70%	0.00%	0.00%	24.70%
Soft bottom				
0-30 meters	6.30%	0.00%	4.61%	10.91%
30-100 meters	2.53%	0.00%	20.31%	22.84%
100-200 meters	0.00%	0.00%	70.29%	70.29%
>200 meters	N/A	N/A	N/A	N/A
Hard bottom				
0-30 meters	16.92%	0.00%	3.21%	20.13%
30-100 meters	10.87%	0.00%	13.66%	24.53%
100-200m	N/A	N/A	N/A	N/A
>200 meters	N/A	N/A	N/A	N/A
Kelp forest				
Kelp 1989	13.42%	0.00%	0.00%	13.42%
Kelp 1999	14.95%	0.00%	0.00%	14.95%
Kelp 2002	7.36%	0.00%	0.21%	7.57%
Kelp 2003	9.59%	0.00%	0.00%	9.59%
Kelp 2004	8.29%	0.00%	0.14%	8.43%
Kelp 2005	17.42%	0.00%	0.00%	17.42%
Average kelp	12.00%	0.00%	0.06%	12.06%

¹Note: These are proposed MPA designations, NOT levels of protection assigned by the SAT

**California Marine Life Protection Act Initiative, North Central Coast Project
Staff Summary of Area and Habitats in Draft MPA Array Turquoise, Option A**
Revised November 15, 2007

Overall Summary for Turquoise, Option A (10/19/07 version)

Type of MPA ¹	# Proposed	Area (mi ²)	% of study region
State Marine Reserve (SMR)	11	52.83	6.92%
State Marine Park (SMP)	2	2.91	0.38%
State Marine Conservation Area (SMCA)	10	148.69	19.49%
All MPAs combined	23	204.43	26.79%

¹ Note: These are proposed MPA designations, NOT levels of protection assigned by the MLPA SAT.

Individual MPAs in Turquoise, Option A (10/19/07 version)

MPA Name ^A	Size (mi ²)	Along-shore span (mi) ^B	Depth range (ft)
Point Arena SMR	13.66	5.8	0-271
Del Mar Landing SMP	0.09	0.3	0-55
Black Point SMR	3.62	4.2	0-164
Black Point SMCA	12.98	4.2	142-294
Salt Point SMP	2.82	5.0	0-153
Gerstle Cove SMCA	0.01	0.2	0-10
Russian River SMCA	7.37	6.7	0-119
Bodega Head SMR	13.66	5.0	0-257
Bodega Head SMCA	5.70	5.0	192-266
Tomales Bay SMR	0.66	1.7	0-10
Pt Reyes Headland SMR	5.48	5.5	0-151
Pt Reyes Headland SMCA	36.16	9.0	0-222
Drakes Estero SMR	4.05	7.2	0-10
Duxbury Reef SMCA	16.23	5.6	0-133
Moss Beach SMR	5.77	5.4	0-122
Moss Beach SMCA	19.71	6.8	0-172
Pescadero Estuary SMR	0.08	1.9	0-10
Middle Farallon SMR	1.19	NA	78-189
North Farallon SMR	1.19	NA	0-207
SE Farallons SMCA	10.75	NA	126-382
SE Farallons SMR	3.47	NA	0-206
East Farallons SMCA	32.36	NA	138-276
Farallon Islands SMCA	7.44	NA	47-244

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

Habitat Representation in Turquoise, Option A (10/19/07 version)

Habitat	Percentage of mapped habitat in proposed MPA designations in the study region ¹			
	SMR	SMP	SMCA	Total MPAs
Intertidal				
Sandy or gravel beaches	7.82%	0.69%	13.10%	21.61%
Rocky intertidal and cliff	21.36%	4.81%	5.60%	31.78%
Coastal marsh	57.41%	0.00%	4.41%	61.82%
Tidal flats	27.43%	0.00%	2.73%	30.16%
Seagrass beds (0-30m): Surfgrass	23.04%	0.00%	13.16%	36.20%
Seagrass beds (0-30m): Eelgrass	60.85%	0.00%	0.11%	60.96%
Estuary	23.34%	0.00%	1.74%	25.09%
Soft bottom				
0-30 meters	5.96%	0.04%	8.87%	14.86%
30-100 meters	4.89%	0.12%	26.48%	31.49%
100-200 meters	0.00%	0.00%	59.75%	59.75%
>200 meters	N/A	N/A	N/A	N/A
Hard bottom				
0-30 meters	16.83%	3.10%	8.98%	28.90%
30-100 meters	19.70%	1.29%	10.80%	31.79%
100-200m	N/A	N/A	N/A	N/A
>200 meters	N/A	N/A	N/A	N/A
Kelp forest				
Kelp 1989	9.43%	10.07%	0.11%	19.61%
Kelp 1999	9.82%	5.98%	0.00%	15.80%
Kelp 2002	8.83%	23.13%	8.32%	40.28%
Kelp 2003	8.91%	8.04%	0.49%	17.45%
Kelp 2004	6.26%	12.34%	1.84%	20.43%
Kelp 2005	4.06%	3.62%	0.02%	7.70%
Average kelp	6.66%	11.39%	0.00%	18.04%

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**California Marine Life Protection Act Initiative, North Central Coast Project
Staff Summary of Area and Habitats in Draft MPA Array Turquoise, Option B
Revised November 15, 2007**

Overall Summary for Turquoise, Option B (10/19/07 version)

Type of MPA ¹	# Proposed	Area (mi ²)	% of study region
State Marine Reserve (SMR)	10	57.50	7.54%
State Marine Park (SMP)	1	0.09	0.01%
State Marine Conservation Area (SMCA)	11	219.92	28.82%
All MPAs combined	22	277.51	36.37%

¹ Note: These are proposed MPA designations, NOT levels of protection assigned by the MLPA SAT.

Individual MPAs in Turquoise, Option B (10/19/07 version)

MPA Name ^A	Size (mi ²)	Along-shore span (mi) ^B	Depth range (ft)
Point Arena SMR	9.38	4.3	0-244
Point Arena SMCA	11.17	5.9	105-324
Del Mar Landing SMP	0.09	0.3	0-55
Black Salt SMR	7.69	9.6	0-177
Black Salt SMCA	28.27	9.6	144-300
Russian River SMCA	8.97	8.2	0-119
Charter Beach SMCA	0.25	1.4	0-12
Bodega Head SMR	13.66	5.0	0-257
Bodega Head SMCA	5.70	5.0	192-266
Tomales Bay SMR	0.66	1.7	0-10
Pt Reyes Headland SMR	7.35	5.5	0-152
Pt Reyes Headland SMCA	35.32	9.0	0-222
Drakes Estero SMR	4.05	7.2	0-10
Duxbury Reef SMCA	25.01	5.6	0-136
Moss Beach SMR	6.94	6.8	0-118
Moss Beach SMCA	18.65	6.8	56-172
Pescadero Estuary SMR	0.08	1.9	0-10
North Farallon SMR	1.18	NA	0-207
SE Farallon SMR	6.50	NA	0-241
SE Farallon SMCA	13.75	NA	127-382
Farallon Subregion SMCA	65.88	NA	78-372
Farallon Islands SMCA	6.95	NA	82-244

^A Symbols following proposed MPA name indicate level of protection as determined by the MLPA Master Plan Science Advisory Team. (***) indicates SMCA High, (**) indicates SMCA Moderate, (*) indicates SMCA Low, and (^) indicates SMP Low. Level of protection was used in the SAT evaluation.

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

Habitat Representation in Turquoise, Option B (10/19/07 version)

Habitat	Percentage of mapped habitat in proposed MPA designations in the study region ¹			
	SMR	SMP	SMCA	Total MPAs
Intertidal				
Sandy or gravel beaches	10.48%	0.00%	12.43%	22.90%
Rocky intertidal and cliff	30.04%	0.27%	6.86%	37.17%
Coastal marsh	57.41%	0.00%	4.41%	61.82%
Tidal flats	27.43%	0.00%	2.73%	30.16%
Seagrass beds (0-30m): Surfgrass	25.53%	0.00%	13.27%	38.80%
Seagrass beds (0-30m): Eelgrass	60.85%	0.00%	0.11%	60.96%
Estuary	23.34%	0.00%	1.74%	25.09%
Soft bottom				
0-30 meters	6.44%	0.00%	8.95%	15.39%
30-100 meters	4.42%	0.00%	41.49%	45.91%
100-200 meters	0.00%	0.00%	100.00%	100.00%
>200 meters	N/A	N/A	N/A	N/A
Hard bottom				
0-30 meters	21.61%	0.03%	13.30%	34.94%
30-100 meters	22.73%	0.00%	19.54%	42.26%
100-200m	N/A	N/A	N/A	N/A
>200 meters	N/A	N/A	N/A	N/A
Kelp forest				
Kelp 1989	25.33%	0.09%	0.10%	25.53%
Kelp 1999	19.70%	0.04%	0.00%	19.74%
Kelp 2002	34.18%	0.10%	8.80%	43.08%
Kelp 2003	16.94%	0.09%	0.49%	17.52%
Kelp 2004	17.78%	0.07%	1.62%	19.47%
Kelp 2005	17.29%	0.11%	0.02%	17.42%
Average kelp	17.86%	0.08%	0.00%	17.95%

¹ Note: These are proposed MPA designations, NOT levels of protection assigned by the MLPA SAT

**California Marine Life Protection Act Initiative, North Central Coast Project
Staff Summary of Area and Habitats in Draft External Proposal A
Revised November 15, 2007**

Overall Summary for External Proposal A (10/19/07 version)

Type of MPA ¹	# Proposed	Area (mi ²)	% of study region
State Marine Reserve (SMR)	7	17.91	2.35%
State Marine Park (SMP)	1	0.63	0.08%
State Marine Conservation Area (SMCA)	8	107.17	14.05%
All MPAs combined	16	125.71	16.48%

¹ Note: These are proposed MPA designations, NOT levels of protection assigned by the SAT.

Individual MPAs in External Proposal A (10/19/07 version)

MPA Name ^A	Size (mi ²)	Along-shore span (mi) ^B	Depth range (ft)
Arena Rock SMR	4.62	4.0	0-166
Arena Rock SMCA	11.01	4.0	106-324
Richardson's Ranch SMR	2.19	2.0	0-203
Richardson's Ranch SMCA	20.17	5.4	0-300
Gerstle Cove SMCA	0.01	0.2	0-36
Bodega Head SMR	0.57	2.1	0-47
Bodega Head SMCA	17.12	4.3	0-266
Tomales Bay SMP	0.63	1.7	0-10
Point Reyes SMR	2.70	11.9	0-51
Point Reyes SMCA	25.38	5.1	0-208
Duxbury Reef SMR	3.73	5.5	0-56
Duxbury Reef SMCA	18.72	5.5	20-136
Pillar Point SMR	2.77	3.1	0-88
Pillar Point SMCA	8.45	3.1	63-172
Farallon Islands SMR	1.33	NA	0-145
Farallon Islands SMCA	11.03	NA	51-382

^A Symbols following proposed MPA name indicate level of protection as determined by the MLPA Master Plan Science Advisory Team. (***) indicates SMCA High, (**) indicates SMCA Moderate, (*) indicates SMCA Low, and (^) indicates SMP Low. Level of protection was used in the SAT evaluation.

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

Habitat Representation in External Proposal A (10/19/07 version)

Habitat	Percentage of mapped habitat in proposed MPA designations in the study region ¹			
	SMR	SMP	SMCA	Total MPAs
Intertidal				
Sandy or gravel beaches	6.95%	0.27%	2.00%	9.22%
Rocky intertidal and cliff	17.41%	0.00%	3.77%	21.18%
Coastal marsh	12.90%	10.14%	0.00%	23.04%
Tidal flats	18.90%	0.80%	0.77%	20.46%
Seagrass beds (0-30m): Surfgrass	22.94%	0.00%	1.11%	24.05%
Seagrass beds (0-30m): Eelgrass	15.31%	0.00%	0.00%	15.31%
Estuary	4.12%	3.15%	0.00%	7.27%
Soft bottom				
0-30 meters	1.47%	0.42%	3.45%	5.34%
30-100 meters	0.54%	0.00%	17.35%	17.89%
100-200 meters	0.00%	0.00%	53.26%	53.26%
>200 meters	N/A	N/A	N/A	N/A
Hard bottom				
0-30 meters	10.50%	0.00%	25.13%	35.63%
30-100 meters	3.82%	0.00%	16.85%	20.67%
100-200m	N/A	N/A	N/A	N/A
>200 meters	N/A	N/A	N/A	N/A
Kelp forest				
Kelp 1989	8.50%	0.00%	7.06%	15.55%
Kelp 1999	9.10%	0.00%	4.39%	13.48%
Kelp 2002	11.09%	0.00%	14.50%	25.59%
Kelp 2003	3.81%	0.00%	5.49%	9.30%
Kelp 2004	7.66%	0.00%	7.85%	15.51%
Kelp 2005	11.94%	0.00%	3.31%	15.25%
Average kelp	8.84%	0.00%	7.65%	16.49%

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

**California Marine Life Protection Act Initiative, North Central Coast Project
Staff Summary of Area and Habitats in Draft External Proposal B
Revised November 15, 2007**

Overall Summary for External Proposal B (10/19/07 version)

Type of MPA ¹	# Proposed	Area (mi ²)	% of Study Region
State Marine Reserve (SMR)	7	35.09	4.60%
State Marine Park (SMP)	1	2.83	0.37%
State Marine Conservation Area (SMCA)	7	106.85	14.00%
All MPAs combined	15	144.78	18.97%

¹ Note: These are proposed MPA designations, NOT levels of protection assigned by the MLPA SAT.

Individual MPAs in External Proposal B (10/19/07 version)

MPA Name ^A	Size (mi ²)	Along-shore span (mi) ^B	Depth range (ft)
Point Arena SMR	10.67	5.7	0-226
Point Arena SMCA	11.21	5.7	153-324
Sea Ranch SMR	3.62	4.3	0-164
Sea Ranch SMCA	12.98	4.3	142-294
Salt Point SMP	2.83	4.9	0-153
Russian River SMR	0.68	2.6	0-43
Bodega Head SMR	7.70	7.4	0-145
Bodega Head SMCA	21.13	7.4	61-267
Point Reyes SMR	3.18	4.2	0-118
Point Reyes SMCA	28.19	7.6	0-244
Drakes Estero SMCA	4.02	7.2	0-10
Fitzgerald SMR	6.21	4.3	0-131
Fitzgerald SMCA	19.40	6.8	0-172
South East Farallon Island SMR	3.03	NA	0-238
South East Farallon Island SMCA	9.92	NA	161-382

^A Symbols following proposed MPA name indicate level of protection as determined by the MLPA Master Plan Science Advisory Team. (***) indicates SMCA High, (**) indicates SMCA Moderate, (*) indicates SMCA Low, and (^) indicates SMP Low. Level of protection was used in the SAT evaluation.

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

Habitat Representation in External Proposal B (10/19/07 version)

Habitat	Percentage of mapped habitat in proposed MPA designations in the study region ¹			
	SMR	SMP	SMCA	Total MPAs
Intertidal				
Sandy or gravel beaches	8.73%	0.72%	4.90%	14.35%
Rocky intertidal and cliff	17.82%	4.78%	5.37%	27.97%
Coastal marsh	4.41%	0.00%	37.05%	41.47%
Tidal flats	0.00%	0.00%	26.27%	26.27%
Seagrass beds (0-30m): Surfgrass	22.26%	0.00%	4.13%	26.39%
Seagrass beds (0-30m): Eelgrass	0.00%	0.00%	60.76%	60.76%
Estuary	1.75%	0.00%	19.77%	21.52%
Soft bottom				
0-30 meters	3.42%	0.04%	6.47%	9.92%
30-100 meters	2.55%	0.12%	19.23%	21.90%
100-200 meters	0.00%	0.00%	68.97%	68.97%
>200 meters	N/A	N/A	N/A	N/A
Hard bottom				
0-30 meters	18.84%	3.08%	1.60%	23.52%
30-100 meters	8.63%	1.29%	15.20%	25.12%
100-200m	N/A	N/A	N/A	N/A
>200 meters	N/A	N/A	N/A	N/A
Kelp forest				
Kelp 1989	14.74%	9.98%	0.00%	24.72%
Kelp 1999	16.13%	5.94%	0.00%	22.07%
Kelp 2002	8.80%	23.03%	0.04%	31.87%
Kelp 2003	10.90%	7.95%	0.00%	18.86%
Kelp 2004	9.01%	12.48%	0.14%	21.63%
Kelp 2005	18.54%	3.51%	0.00%	22.05%
Average kelp	13.24%	11.34%	0.03%	24.60%

¹ Note: These are proposed MPA designations, NOT levels of protection assigned by the MLPA SAT

California Marine Life Protection Act Initiative, North Central Coast Project
Staff Summary of Area and Habitats in Draft External Proposal C
Revised November 15, 2007

Overall Summary for External Proposal C (10/19/07 version)

Type of MPA ¹	# Proposed	Area (mi ²)	% of study region
State Marine Reserve (SMR)	11	219.10	28.72%
State Marine Park (SMP)	0	0.00	0.00%
State Marine Conservation Area (SMCA)	8	79.76	10.45%
All MPAs combined	19	298.87	39.17%

¹ Note: These are proposed MPA designations, NOT levels of protection assigned by the MLPA SAT.

Individual MPAs in External Proposal C (10/19/07 version)

MPA Name ^A	Size (mi ²)	Along-shore span (mi) ^B	Depth range (ft)
Point Arena SMR	6.92	3.8	0-194
Point Arena SMCA	8.42	3.8	153-324
Mendocino Coast SMCA I	13.57	5.5	0-233
Mendocino Coast SMCA II	8.52	5.5	191-303
Sonoma Coast SMR	36.01	9.7	0-300
Russian River SMR	2.77	2.8	0-84
Bodega Head SMR	15.97	5.9	0-262
Bodega Head SMCA	6.87	5.9	192-267
Tomales Bluff SMR	11.29	5.0	0-175
Tomales Bluff SMCA	7.92	5.0	159-227
Point Reyes Headland SMR	5.52	4.2	0-162
Point Reyes Headland SMCA	10.46	4.2	105-217
Drakes-Limantour Estero SMR	4.04	7.2	0-10
Duxbury-Double Point SMR	14.12	3.3	0-136
Duxbury-Double Point SMCA	10.63	2.7	0-126
Fitzgerald-Devils Slide SMR	14.52	7.3	0-150
Fitzgerald-Devils Slide SMCA	13.37	7.3	92-172
Pescadero-Bean Hollow SMR	13.86	3.6	0-208
Farallon SMR	94.09	NA	0-382

^A Symbols following proposed MPA name indicate level of protection as determined by the MLPA Master Plan Science Advisory Team. (***) indicates SMCA High, (**) indicates SMCA Moderate, (*) indicates SMCA Low, and (^) indicates SMP Low. Level of protection was used in the SAT evaluation.

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

Habitat Representation in External Proposal C (10/19/07 version)

Habitat	Percentage of mapped habitat in proposed MPA designations in the study region ¹			
	SMR	SMP	SMCA	Total MPAs
Intertidal				
Sandy or gravel beaches	19.95%	0.00%	1.68%	21.63%
Rocky intertidal and cliff	33.86%	0.00%	7.47%	41.34%
Coastal marsh	47.72%	0.00%	0.00%	47.72%
Tidal flats	26.53%	0.00%	0.00%	26.53%
Seagrass beds (0-30m): Surfgrass	42.83%	0.00%	5.04%	47.86%
Seagrass beds (0-30m): Eelgrass	60.82%	0.00%	0.00%	60.82%
Estuary	20.77%	0.00%	0.00%	20.77%
Soft bottom				
0-30 meters	12.33%	0.00%	1.80%	14.13%
30-100 meters	34.00%	0.00%	14.59%	48.58%
100-200 meters	98.34%	0.00%	1.66%	100.00%
>200 meters	N/A	0.00%	N/A	N/A
Hard bottom				
0-30 meters	29.64%	0.00%	13.16%	42.80%
30-100 meters	50.25%	0.00%	10.72%	60.97%
100-200m	N/A	0.00%	N/A	N/A
>200 meters	N/A	0.00%	N/A	N/A
Kelp forest				
Kelp 1989	24.64%	0.00%	22.14%	46.77%
Kelp 1999	18.40%	0.00%	20.98%	39.38%
Kelp 2002	39.95%	0.00%	0.30%	40.25%
Kelp 2003	16.97%	0.00%	17.51%	34.49%
Kelp 2004	19.10%	0.00%	11.79%	30.89%
Kelp 2005	13.80%	0.00%	26.31%	40.11%
Average kelp	24.10%	0.00%	16.74%	40.84%

¹Note: These are proposed MPA designations, NOT levels of protection assigned by the MLPA SAT

**California Marine Life Protection Act Initiative, North Central Coast Project
Staff Summary of Area and Habitats in Draft External Proposal D
Revised November 15, 2007**

Overall Summary for External Proposal D (10/19/07 version)

Type of MPA ¹	# Proposed	Area (mi ²)	% of study region
State Marine Reserve (SMR)	13	47.13	6.18%
State Marine Park (SMP)	1	0.63	0.08%
State Marine Conservation Area (SMCA)	6	99.97	13.10%
All MPAs combined	20	147.74	19.36%

¹ Note: These are proposed MPA designations, NOT levels of protection assigned by the MLPA SAT.

Individual MPAs in External Proposal D (10/19/07 version)

MPA Name ^A	Size (mi ²)	Along-shore span (mi) ^B	Depth range (ft)
Point Arena SMR	7.29	4.3	0-205
Point Arena SMCA	14.16	5.9	98-324
Fish Rocks SMR	0.28	0.7	0-83
Gualala Point Island SMR	0.51	1.1	0-80
Black Point to Salt Point SMR	7.66	9.5	0-177
Black Point to Salt Point SMCA	27.88	9.5	149-300
Fort Ross SMR	0.12	0.5	0-75
Russian River SMR	1.49	2.7	0-50
Bodega Head SMR	12.65	6.5	0-229
Bodega Head SMCA	11.36	6.5	148-267
Tomales Bay SMP	0.63	1.7	0-10
Tomales Bluff/Bird Rock SMR	0.28	0.6	0-44
Point Reyes SMR	4.54	3.7	0-132
Point Reyes Offshore SMCA	28.85	6.8	0-212
Drakes Estero and Limantour SMR	4.04	7.2	0-10
Point San Pedro SMR	0.29	0.4	0-57
Devil's Slide SMR	0.17	0.4	0-45
Fitzgerald SMCA 1	4.70	2.7	0-101
Fitzgerald SMR	7.80	4.0	0-146
Fitzgerald SMCA 2	13.03	6.7	93-170

^A Symbols following proposed MPA name indicate level of protection as determined by the MLPA Master Plan Science Advisory Team. (***) indicates SMCA High, (**) indicates SMCA Moderate, (*) indicates SMCA Low, and (^) indicates SMP Low. Level of protection was used in the SAT evaluation.

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

Habitat Representation in External Proposal D (10/19/07 version)

Habitat	Percentage of mapped habitat in proposed MPA designations in the study region ¹			
	SMR	SMP	SMCA	Total MPAs
Intertidal				
Sandy or gravel beaches	12.38%	0.27%	5.35%	18.00%
Rocky intertidal and cliff	29.32%	0.00%	1.42%	30.75%
Coastal marsh	37.05%	10.14%	0.00%	47.19%
Tidal flats	26.58%	0.80%	2.63%	30.01%
Seagrass beds (0-30m): Surfgrass	23.30%	0.00%	4.75%	28.05%
Seagrass beds (0-30m): Eelgrass	60.84%	0.00%	0.09%	60.92%
Estuary	19.83%	3.15%	0.00%	22.98%
Soft bottom				
0-30 meters	5.54%	0.42%	4.73%	10.69%
30-100 meters	2.37%	0.00%	20.19%	22.56%
100-200 meters	0.00%	0.00%	1.66%	1.66%
>200 meters	N/A	N/A	N/A	N/A
Hard bottom				
0-30 meters	20.26%	0.00%	0.29%	20.55%
30-100 meters	20.52%	0.00%	3.69%	24.21%
100-200m	N/A	N/A	N/A	N/A
>200 meters	N/A	N/A	N/A	N/A
Kelp forest				
Kelp 1989	26.06%	0.00%	0.00%	26.06%
Kelp 1999	20.94%	0.00%	0.00%	20.94%
Kelp 2002	35.34%	0.00%	0.05%	35.39%
Kelp 2003	18.87%	0.00%	0.00%	18.87%
Kelp 2004	19.90%	0.00%	0.03%	19.92%
Kelp 2005	18.79%	0.00%	0.00%	18.79%
Average kelp	24.93%	0.00%	0.01%	24.94%

¹Note: These are proposed MPA designations, NOT levels of protection assigned by the MLPA SAT