

**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 MPA ¹	# Proposed	Area (mi ²)	% 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 (mi ²)	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