

**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%

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