

**California Marine Life Protection Act Initiative
South Coast Study Region: Round 1 Evaluation
Staff Summary of Area and Habitats in
Draft MPA Array Opal B
Revised April 23, 2009**

Summary of MPAs by Designation for Draft MPA Array Opal B

Type of MPA ¹	# of MPAs	Area (mi ²)	% of Study Region
State Marine Reserve (SMR)	35	493.7	21.0%
State Marine Recreational Managed Area (SMRMA)	0	0.0	0.0%
State Marine Park (SMP)	5	114.7	4.9%
State Marine Conservation Area (SMCA)	12	145.1	6.2%
Undesignated ²	0	0.0	0.0%
All MPAs combined	52	753.5	32.1%

¹ Note: These are proposed marine protected area (MPA) designations, NOT levels of protection assigned by the MLPA Master Plan Science Advisory Team (SAT). SMRMA is not an MPA designation, but a marine managed area designation.

² Note: These are the pending military closures, if they were included in the proposal.

Summary of MPAs by Level of Protection for Draft MPA Array Opal B

Level of Protection (LOP)	# Proposed	Area (mi ²)	% of Study Region
Very High ³	35	493.7	21.0%
High	1	13.9	0.6%
Moderate-High	0	0.0	0.0%
Moderate	0	0.0	0.0%
Low ⁴	16	245.9	10.5%
Total	52	753.5	32.1%

³ Note: Includes MPAs with SMR designation and pending military closures that were not assigned a designation

⁴ Note: The Low category groups together MPAs that are assigned a moderate-low and lower level of protection.

Individual MPAs in Draft MPA Array Opal B

MPA Name	Size (mi ²)	Along-Shore Span ⁵ (mi)	Depth Range (ft)
Richardson Rock SMR ⁵	40.69	6.3	95 - 558
Judith Rock SMR ⁵	4.55	1.2	0 - 487
Harris Point SMR ⁵	25.35	5.4	0 - 557
South Point SMR ⁵	13.05	3.5	0 - 1071
Carrington Point SMR ⁵	12.76	4.0	0 - 211
Skunk Point SMR ⁵	1.39	2.2	0 - 83
Painted Cave SMCA ⁵	1.78	1.9	0 - 291
Gull Island SMR ⁵	19.91	4.8	0 - 2205
Scorpion SMR ⁵	9.62	2.6	0 - 769
Footprint SMR ⁵	7.05	4.7	171 - 1656
Anacapa Island SMCA ⁵	7.30	2.0	0 - 490
Anacapa Island SMR ⁵	11.54	3.1	0 - 709

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MPA Name	Size (mi ²)	Along-Shore Span ⁵ (mi)	Depth Range (ft)
Santa Barbara Island SMR ⁵	12.76	1.0	0 - 1655
Cojo Anchorage _SMR_OPA_B_1	36.47	10.2	0 - 570
Refugio_SMCA_OPA_B_1	1.03	2.6	0 - 51
Devereux- Naples SMCA_OPA_B_1	22.50	6.2	0 - 911
Campus Point SMR_OPA_B_1	4.72	1.3	0 - 499
Goleta Slough _SMR_OPA_B_1	0.25	N/A	N/A
Carpinteria Reef SMR_OPA_B_1	11.77	3.1	0 - 145
Lachuza SMR_OPA_B_1	14.28	3.9	0 - 1769
Little Dume SMCA_OPA_B_1	13.91	3.8	0 - 2023
Lunada Bay SMR_OPA_B_1	17.86	4.6	0 - 2177
Bolsa Chica Mouth SMR_OPA_B_1	1.82	1.5	0 - 41
Bolsa Chica _SMP_OPA_B_1	0.25	N/A	N/A
Upper Newport Bay _SMP_OPA_B_1	1.10	N/A	N/A
Laguna Coast SMCA_OPA_B_1	24.40	11.6	0 - 1069
Heisler Park _SMR_OPA_B_1	0.04	0.4	6 - 11
Dana Point _SMR_OPA_B_1	6.57	1.6	0 - 1623
Doheny _SMCA_OPA_B_1	0.34	1.1	0 - 14
Agua Hedionda Lagoon _SMR_OPA_B_1	0.04	N/A	N/A
North County Lagoons _SMR_OPA_B_1	27.17	7.7	0 - 1078
Batiquitos Lagoon SMP_OPA_B_1	0.67	N/A	N/A
San Elijo Lagoon SMR_OPA_B_1	0.44	N/A	N/A
San Dieguito Lagoon _SMP_OPA_B_1	0.19	N/A	N/A
La Jolla Coast SMR_OPA_B_1	25.34	6.2	0 - 908
Point Loma Kelp Forest SMR_OPA_B_1	8.41	2.3	0 - 328
Cabrillo SMR_OPA_B_1	0.37	1.3	0 - 30
San Diego Back Bay SMCA_OPA_B_1	5.26	N/A	N/A
TijuanaRiverEstuaryMouth _SMR_OPA_B_1	11.63	3.3	0 - 99
Santa Catalina Island SMP_OPA_B_1	112.47	29.6	0 - 2735
Eagle Rock SMR_OPA_B_1	11.57	3.0	0 - 1956
Lions Head to Arrow SMCA_OPA_B_1	0.59	2.6	0 - 162
Ship Rock SMCA_OPA_B_1	0.16	0.4	117 - 407
Catalina Science Center SMR_OPA_B_1	0.06	0.8	0 - 111
Back Catalina SMCA_OPA_B_1	67.55	17.8	0 - 3674
Catalina Harbor _SMCA_OPA_B_1	0.32	0.7	0 - 186
Church Rock SMR_OPA_B_1	20.28	5.5	0 - 3609
Begg Rock SMR_OPA_B_1	37.96	6.9	219 - 374
San Nicholas SMR_OPA_B_1	40.09	8.5	0 - 875
SWAT 1 SMR_OPA_B_1	17.44	3.9	0 - 1682
Wilson SMR_OPA_B_1	17.09	4.7	0 - 3938
China Point _SMR_OPA_B_1	23.31	5.8	0 - 1048

⁵ Note: The Northern Channel Islands MPAs are to be part of all proposals, as directed by the California Fish and Game Commission and are notated by the footnote. MPAs listed below the broken line are those being proposed.

⁶ Note: Alongshore span measured as direct line from one end of the MPA to the other. Estuarine MPAs are not given an alongshore span.

Habitat Representation in Draft MPA Array Opal B

Habitat	Area ⁷ (sq. mi) and Percentage of Mapped Habitat in Proposal									
	SMR ⁸		SMRMA		SMP		SMCA		Total MPAs	
	Area	%	Area	%	Area	%	Area	%	Area	%
Intertidal										
Sandy or gravel beach*	65.22	17%	0.00	0%	14.94	4%	35.02	9%	115.19	30%
Rocky shores*	68.89	25%	0.00	0%	9.28	3%	30.25	11%	108.41	39%
Hardened Shores ^{*, 9}	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coastal marsh*	6.71	11%	0.00	0%	10.28	17%	1.52	3%	18.51	31%
Coastal marsh	0.43	7%	0.00	0%	0.98	16%	0.24	4%	1.66	27%
Tidal flats*	0.56	2%	0.00	0%	3.48	12%	1.31	5%	5.35	19%
Seagrass beds										
Surfgrass*	14.27	20%	0.00	0%	0.00	0%	1.29	2%	15.56	21%
Eelgrass	0.00	0%	0.00	0%	0.20	4%	1.70	36%	1.90	41%
Estuary										
Estuary	0.73	2%	0.00	0%	2.20	5%	5.25	12%	8.18	19%
Soft bottom										
0-30 meters	55.34	13%	0.00	0%	1.75	<1%	13.81	3%	70.89	16%
0-30 meters proxy ^{*, 11}	58.19	16%	0.00	0%	68.81	19%	68.28	19%	195.28	54%
30-100 meters	156.49	23%	0.00	0%	18.93	3%	53.40	8%	228.82	34%
100-200 meters	49.10	31%	0.00	0%	21.52	14%	17.59	11%	88.22	56%
>200 meters	28.87	12%	0.00	0%	67.20	29%	43.34	18%	139.40	59%
Hard bottom										
0-30 meters	41.71	37%	0.00	0%	0.84	1%	3.91	3%	46.45	42%
0-30 meters proxy ^{*, 11}	64.69	34%	0.00	0%	40.49	21%	34.11	18%	139.29	73%
30-100 meters	25.50	53%	0.00	0%	0.19	<1%	1.03	2%	26.73	56%
100-200 meters	1.08	28%	0.00	0%	0.02	1%	0.05	1%	1.15	29%
>200 meters	0.51	24%	0.00	0%	0.36	17%	0.90	42%	1.78	82%
Unknown										
0-30 meters	8.33	5%	0.00	0%	2.69	2%	8.35	5%	19.37	13%
30-100 meters	43.14	20%	0.00	0%	0.03	<1%	1.34	1%	44.51	21%
100-200 meters	35.50	31%	0.00	0%	0.07	<1%	0.53	<1%	36.10	32%
>200 meters	48.00	24%	0.00	0%	1.08	1%	0.88	<1%	49.96	25%
Kelp forest										
Average kelp (area)	7.21	35%	0.00	0%	0.63	3%	1.15	6%	9.00	43%
Kelp*	64.10	35%	0.00	0%	30.55	17%	33.28	18%	127.92	70%

⁷ Note: Habitats measured as an area (mi²) except for those with a * notation. Habitats with a * notation are expressed in linear units (mi).

⁸ Note: Includes MPAs with SMR designation, as well as pending military closures that were not assigned a designation

⁹ Note: Habitat calculations for hardened shores will be generated in subsequent rounds of MPA proposal evaluation.

¹⁰ Note: The "NA" notation is due to the fact that either data is not available or these habitats are not found or are only found in small areas in this study region.

¹¹ Note: There is limited fine scale data for nearshore habitat, shallower than 10-20 meters depth, in the south coast study region. A proxy for this area was created using a line parallel to the coast and classifying the substrate as either hard or soft substrate depending on the dominant habitat type in that area based on available data.