

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

Summary of MPAs by Designation for Draft MPA Array Lapis B

Type of MPA ¹	# of MPAs	Area (mi ²)	% of Study Region
State Marine Reserve (SMR)	34	389.8	16.6%
State Marine Recreational Managed Area (SMRMA)	0	0.0	0.0%
State Marine Park (SMP)	7	28.2	1.2%
State Marine Conservation Area (SMCA)	13	89.2	3.8%
Undesignated ²	3	61.9	2.6%
All MPAs combined	57	569.1	24.2%

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 Lapis B

Level of Protection (LOP)	# Proposed	Area (mi ²)	% of Study Region
Very High ³	37	451.7	19.2%
High	0	0.0	0.0%
Moderate-High	0	0.0	0.0%
Moderate	0	0.0	0.0%
Low ⁴	20	117.5	5.0%
Total	57	569.1	24.2%

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 Lapis B

MPA Name	Size (mi ²)	Along-shore Span ⁶ (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

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MPA Name	Size (mi²)	Along-shore Span⁶ (mi)	Depth Range (ft)
Anacapa Island SMR ⁵	11.54	3.1	0 - 709
Santa Barbara Island SMR ⁵	12.76	1.0	0 - 1655
Point_Conception_SMR_LAP_B_1	21.88	6.0	0 - 449
Refugio_SMCA_LAP_B_1	1.03	2.6	0 - 51
Naples_Coal_Oil_Point_SMR_LAP_B_1	19.03	5.2	0 - 911
UCSB_SMCA_LAP_B_1	10.66	2.8	0 - 635
Goleta_Slough_SMR_LAP_B_1	0.25	N/A	N/A
Carpenteria_SMR_LAP_B_3	19.32	5.2	0 - 145
Carpinteria_Salt_Marsh_SMR_LAP_B_1	0.28	N/A	N/A
Mugu_SMCA_LAP_B_1	11.08	3.1	0 - 1680
Mugu_Lagoon_SMR_LAP_B_1	1.49	N/A	N/A
Big_Sycamore_Canyon_SMR_LAP_B_1	2.22	2.5	17 - 130
Point_Dume_SMR_LAP_B_1	16.83	4.2	0 - 2023
Malibu_SMCA_LAP_B_1	22.53	6.0	0 - 1870
Malibu_Creek_Estuary_SMR_LAP_B_1	0.05	N/A	N/A
Palos_Verdes_SMR_LAP_B_2	14.51	3.7	0 - 1267
Palos_Verdes_SMCA_LAP_B_3	9.30	2.5	0 - 2239
Point_Fermin_SMP_LAP_B_1	0.07	0.6	0 - 20
Bolsa_Chica_SMP_LAP_B_1	0.25	N/A	N/A
Newport_Beach_SMCA_LAP_B_1	4.20	4.1	0 - 387
Upper_Newport_Bay_SMR_LAP_B_1	1.10	N/A	N/A
Crystal_Cove_SMP_LAP_B_1	13.37	3.6	0 - 1584
Laguna_Dana_Point_SMR_LAP_B_1	21.51	5.7	0 - 1776
Dana_Point_SMCA_LAP_B_1	12.29	3.1	0 - 1871
Doheny_SMCA_LAP_B_1	0.19	0.8	0 - 14
Doheny_Beach_SMCA_LAP_B_1	0.14	1.1	0 - 10
San_Clemente_San_Onofre_SMP_LAP_B_1	0.76	2.9	0 - 25
Agua_Hedionda_Lagoon_SMCA_LAP_B_1	0.32	N/A	N/A
Agua_Hedionda_Lagoon_SMR_LAP_B_1	0.11	N/A	N/A
Ponto_Batequitos_Estuary_SMP_LAP_B_1	12.70	3.6	0 - 877
Batequitos_Lagoon_SMP_LAP_B_1	0.67	N/A	N/A
Swamis_San_Elijo_SMR_LAP_B_1	13.03	3.6	0 - 982
San_Elijo_Lagoon_SMP_LAP_B_1	0.43	N/A	N/A
San_Dieguito_SMCA_LAP_B_1	8.38	2.3	0 - 1095
San_Dieguito_River_Park_SMR_LAP_B_1	0.52	N/A	N/A
La_Jolla_SMR_LAP_B_1	28.19	7.0	0 - 1293
South_San_Diego_Bay_SMR_LAP_B_1	5.29	N/A	N/A
Tijuana_SMR_LAP_B_1	8.42	2.4	0 - 99
Blue_Cavern_SMR_LAP_B_1	8.97	2.0	0 - 2616
Farnsworth_Bank_SMR_LAP_B_2	10.14	2.7	0 - 1167
Avalon_Dive_Park_SMR_LAP_B_1	0.01	0.2	N/A
Lover's_Cove_SMR_LAP_B_1	0.02	0.3	0 - 10

MPA Name	Size (mi ²)	Along-shore Span ⁶ (mi)	Depth Range (ft)
Begg_Rock_SMR_LAP_B_1	37.96	6.9	219 - 374
San Nicolas Pending Military Closure	25.20	7.0	0 - 288
San Clemente Pending Military Closures 1	17.44	3.9	0 - 1682
San Clemente Pending Military Closures 2	19.24	5.4	0 - 3938

⁵ Note: State MPAs around the Northern Channel Islands MPAs are to be included in 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 Lapis 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*	59.11	16%	0.00	0%	8.15	2%	20.68	5%	87.94	23%
Rocky shores*	62.31	22%	0.00	0%	3.01	1%	12.13	4%	77.45	28%
Hardened shores*, 9, 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coastal marsh*	22.38	38%	0.00	0%	6.41	11%	1.16	2%	29.95	50%
Coastal marsh	2.33	38%	0.00	0%	0.41	7%	0.00	0%	2.74	45%
Tidal flats*	5.32	19%	0.00	0%	0.99	3%	1.17	4%	7.49	26%
Seagrass beds										
Surfgrass*	14.27	20%	0.00	0%	0.00	0%	1.29	2%	15.56	21%
Eelgrass	1.69	36%	0.00	0%	0.20	4%	0.03	1%	1.93	41%
Estuary										
Estuary	9.08	21%	0.00	0%	1.35	3%	0.32	1%	10.75	25%
Soft bottom										
0-30 meters	52.60	12%	0.00	0%	4.11	1%	14.52	3%	71.23	16%
0-30 meters proxy*, 11	59.08	16%	0.00	0%	5.52	2%	19.91	5%	84.51	23%
30-100 meters	154.22	23%	0.00	0%	6.68	1%	33.66	5%	194.55	29%
100-200 meters	41.79	26%	0.00	0%	6.06	4%	9.15	6%	57.00	36%
>200 meters	30.36	13%	0.00	0%	8.29	4%	22.11	9%	60.77	26%
Hard bottom										
0-30 meters	27.22	24%	0.00	0%	1.05	1%	3.58	3%	31.85	29%
0-30 meters proxy*, 11	43.32	23%	0.00	0%	1.92	1%	9.58	5%	54.82	29%
30-100 meters	20.06	42%	0.00	0%	0.10	<1%	0.34	1%	20.50	43%
100-200 meters	0.84	22%	0.00	0%	0.07	2%	0.17	4%	1.08	28%
>200 meters	0.88	41%	0.00	0%	0.02	1%	0.02	1%	0.92	43%
Unknown										
0-30 meters	15.80	10%	0.00	0%	1.86	1%	2.87	2%	20.53	13%
30-100 meters	20.06	9%	0.00	0%	0.10	<1%	0.34	<1%	20.50	10%

Habitat	Area ⁷ (sq. mi) and Percentage of Mapped Habitat in Proposal									
	SMR ⁸		SMRMA		SMP		SMCA		Total MPAs	
	Area	%	Area	%	Area	%	Area	%	Area	%
100-200 meters	27.76	25%	0.00	0%	0.00	0%	0.52	<1%	28.29	25%
>200 meters	45.53	23%	0.00	0%	0.00	0%	0.91	<1%	46.45	23%
Kelp forest										
Average kelp (area)	3.92	19%	0.00	0%	0.06	<1%	0.51	2%	4.49	22%
Kelp*	38.98	21%	0.00	0%	0.45	<1%	4.87	3%	44.30	24%

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.