

California Marine Life Protection Act Initiative
South Coast Study Region: Round 2 Evaluation
Staff Summary of Area and Habitats in Lapis 1 Draft MPA Proposal
June 9, 2009

Summary of MPAs by Designation for Lapis 1 Draft MPA Proposal

Type of MPA ¹	# of MPAs	Area (mi ²)	% of Study Region
State Marine Reserve (SMR)	34	287.6	12.2%
State Marine Recreational Managed Area (SMRMA)	1	1.8	0.1%
State Marine Park (SMP)	4	6.4	0.3%
State Marine Conservation Area (SMCA)	13	62.4	2.7%
Undesignated	2	36.7	1.6%
All MPAs combined	54	394.9	16.8%

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 rather a marine managed area designation. The "Undesignated" are the pending military closures.

Summary of MPAs by Level of Protection for Lapis 1 Draft MPA Proposal

Level of Protection (LOP)	# Proposed	Area (mi ²)	% of Study Region
Very High ²	35	289.4	12.3%
High	2	20.3	0.9%
Moderate-High	4	27.0	1.1%
Moderate	0	0.0	0.0%
Low ³	11	21.4	0.9%
Not applicable ⁴	2	36.7	1.6%
Total	54	394.9	16.8%

² Note: The "Very High" category includes MPAs with SMR designation, as well as MPAs with a SMRMA designation.

³ Note: The "Low" category groups together MPAs that are assigned a moderate-low and lower level of protection.

⁴ Note: These are the pending military closures. These are not assigned a level of protection.

Individual MPAs in Lapis 1 Draft MPA Proposal

MPA Name	Size (mi ²)	Along-shore Span ⁶ (mi)	Depth Range ⁷ (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

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MPA Name	Size (mi²)	Along-shore Span⁶ (mi)	Depth Range⁷ (ft)
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
Santa Barbara Island SMR ⁵	12.76	1.0	0 - 1655
Point Conception/Humqag SMR	26.05	6.2	0 - 489
Coal Oil Point SMR	10.10	2.7	0 - 701
Goleta Slough SMR	0.25	N/A	N/A
Carpinteria Estuary SMR	0.28	N/A	N/A
Mugu Lagoon SMRMA	1.85	N/A	N/A
Lachusa SMCA	11.73	3.1	0 - 2007
Point Dume SMR	14.51	3.6	0 - 2023
Malibu Creek Estuary SMR	0.05	N/A	N/A
Palos Verdes SMR	10.33	2.9	0 - 1267
Point Fermin SMP	0.07	0.6	0 - 20
Bolsa Chica SMP	0.25	N/A	N/A
Upper Newport Bay SMP	1.11	N/A	N/A
Newport Beach SMCA	2.55	3.7	0 - 165
Laguna Beach SMR	8.99	3.5	0 - 1378
SoLag Dana SMCA	5.09	2.3	0 - 707
Dana Point SMR	0.53	1.0	0 - 55
Doheny SMCA	0.34	1.1	0 - 14
Agua Hedionda Lagoon SMR	0.04	N/A	N/A
Batiquitos Lagoon SMR	0.28	N/A	N/A
Swami's-San Elijo SMCA	10.95	3.0	0 - 979
San Elijo Lagoon SMR	0.44	N/A	N/A
San Dieguito Lagoon SMR	0.20	N/A	N/A
Penasquitos Lagoon SMR	0.35	N/A	N/A
San Diego-Scripps SMCA	0.11	0.5	0 - 10
La Jolla SMR 1	0.95	1.1	0 - 325
La Jolla SMR 2	6.47	2.9	0 - 171
San Diego River SMCA	0.42	N/A	N/A
Famosa Slough SMR	0.03	N/A	N/A
Point Loma SMCA	8.19	2.3	0 - 332
Ha Sil (South San Diego Bay) SMP	4.97	N/A	N/A
Tijuana River Mouth SMCA	2.91	2.3	0 - 55
Tijuana Estuary SMR	0.75	N/A	N/A
Arrow Point SMCA	2.42	2.2	0 - 680
Blue Cavern SMCA	8.59	2.3	162 - 2616
Blue Cavern SMR	1.73	2.3	0 - 761
Farnsworth Bank SMR	8.58	2.3	0 - 1167
Avalon Dive Park SMR	0.02	0.2	0 - 50
Lover's Cove SMR	0.02	0.3	0 - 10
Begg Rock SMR	37.96	6.9	219 - 374
San Clemente Pending Military Closure 1	17.44	3.9	0 - 1682

MPA Name	Size (mi²)	Along-shore Span⁶ (mi)	Depth Range⁷ (ft)
San Clemente Pending Military Closure 2	19.24	5.4	0 - 3938

⁵ Note: State MPAs around the Northern Channel Islands are to be part of all proposals, as directed by the California Fish and Game Commission and are notated by the footnote.

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.

⁷ Note: Comprehensive bathymetric data for all estuaries is not available. Though bathymetric data do exist in portions of some estuaries, depth ranges are not provided for estuarine MPAs for consistency in evaluations.

Habitat Representation in Lapis 1 Draft MPA Proposal

Habitat ⁸	SMR		SMRMA		SMP		SMCA		Undesignated		Total MPAs	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
Intertidal												
Sandy or gravel beach*	29.19	8%	1.00	<1%	2.59	1%	16.68	4%	6.04	2%	55.49	15%
Rocky shores*	50.37	18%	0.00	0%	0.54	<1%	16.55	6%	1.82	1%	69.27	25%
Hardened shores*	0.67	<1%	0.05	<1%	12.15	4%	4.37	1%	0.11	<1%	17.36	6%
Coastal marsh*	21.58	36%	9.36	16%	11.24	19%	0.01	<1%	0.00	0%	42.20	71%
Coastal marsh	1.60	26%	1.09	18%	1.03	17%	0.10	2%	0.00	0%	3.83	63%
Tidal flats*	2.10	7%	0.90	3%	4.13	14%	1.10	4%	0.00	0%	8.23	29%
Seagrass beds												
Surfgrass*	30.44	42%	0.00	0%	0.00	0%	7.54	10%	3.09	4%	41.07	57%
Eelgrass	0.06	1%	0.00	0%	1.67	36%	0.00	0%	0.00	0%	1.73	37%
Estuarine												
Estuary	2.66	6%	1.85	4%	6.32	15%	0.42	1%	0.00	0%	11.25	26%
Soft bottom												
0-30 meters	23.25	5%	0.00	0%	0.00	0%	10.34	2%	0.01	<1%	33.60	8%
0-30 meters proxy*. ⁹	37.01	10%	0.00	0%	0.00	0%	15.97	4%	1.30	<1%	54.29	15%
30-100 meters	108.83	16%	0.00	0%	0.00	0%	21.58	3%	0.96	<1%	131.37	20%
100-200 meters	35.59	22%	0.00	0%	0.00	0%	5.79	4%	<1%	0%	41.38	26%
>200 meters	13.13	6%	0.00	0%	0.00	0%	12.25	5%	<1%	0%	25.38	11%
Hard bottom												
0-30 meters	13.47	12%	0.00	0%	0.07	<1%	4.76	4%	1.79	2%	20.09	18%
0-30 meters proxy*. ⁹	25.47	13%	0.00	0%	0.00	0%	9.77	5%	7.02	4%	42.26	22%
30-100 meters	10.79	23%	0.00	0%	0.00	0%	0.44	1%	1.07	2%	12.30	26%
100-200 meters	0.75	19%	0.00	0%	0.00	0%	0.01	<1%	0.00	0%	0.76	20%
>200 meters	0.84	39%	0.00	0%	0.00	0%	0.01	<1%	0.00	0%	0.85	39%
Unknown												
0-30 meters	6.38	4%	1.84	1%	6.32	4%	2.31	1%	0.46	<1%	17.31	11%
30-100 meters	28.38	13%	0.00	0%	0.00	0%	3.87	2%	5.89	3%	38.13	18%
100-200 meters	21.23	19%	0.00	0%	0.00	0%	0.54	<1%	6.42	6%	28.20	25%
>200 meters	24.91	12%	0.00	0%	0.00	0%	0.49	<1%	20.08	10%	45.47	23%
Kelp forest												

Habitat ⁸	SMR		SMRMA		SMP		SMCA		Undesignated		Total MPAs	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
Maximum kelp*	42.23	13%	0.00	0%	0.00	0%	11.22	3%	8.43	3%	61.88	18%
Kelp persistence*	20.91	11%	0.00	0%	0.11	<1%	5.80	3%	7.02	4%	33.83	19%

⁸ Note: Habitats measured as an area (mi²) except for those with a * notation. Habitats with a * notation are expressed in linear units (mi).

⁹ 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.