

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

**Summary of MPAs by Designation for Draft MPA Array Lapis A**

Type of MPA <sup>1</sup>	# of MPAs	Area (mi <sup>2</sup> )	% of Study Region
State Marine Reserve (SMR)	24	227.6	9.7%
State Marine Recreational Managed Area (SMRMA)	0	0.0	0.0%
State Marine Park (SMP)	6	2.4	0.1%
State Marine Conservation Area (SMCA)	14	29.3	1.2%
Undesignated <sup>2</sup>	3	61.9	2.6%
<b>All MPAs combined</b>	<b>47</b>	<b>321.2</b>	<b>13.7%</b>

<sup>1</sup> 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.

<sup>2</sup> 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 A**

Level of Protection (LOP)	# Proposed	Area (mi <sup>2</sup> )	% of Study Region
Very High <sup>3</sup>	27	289.5	12.3%
High	1	0.8	0.0%
Moderate-High	0	0.0	0.0%
Moderate	0	0.0	0.0%
Low <sup>4</sup>	19	30.9	1.3%
<b>Total</b>	<b>47</b>	<b>321.2</b>	<b>13.7%</b>

<sup>3</sup> Note: Includes MPAs with SMR designation and pending military closures that were not assigned a designation.

<sup>4</sup> 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 A**

MPA Name	Size (mi <sup>2</sup> )	Along-shore Span <sup>6</sup> (mi)	Depth Range (ft)
Richardson Rock SMR <sup>5</sup>	40.69	6.3	95 - 558
Judith Rock SMR <sup>5</sup>	4.55	1.2	0 - 487
Harris Point SMR <sup>5</sup>	25.35	5.4	0 - 557
South Point SMR <sup>5</sup>	13.05	3.5	0 - 1071
Carrington Point SMR <sup>5</sup>	12.76	4.0	0 - 211
Skunk Point SMR <sup>5</sup>	1.39	2.2	0 - 83
Painted Cave SMCA <sup>5</sup>	1.78	1.9	0 - 291
Gull Island SMR <sup>5</sup>	19.91	4.8	0 - 2205
Scorpion SMR <sup>5</sup>	9.62	2.6	0 - 769
Footprint SMR <sup>5</sup>	7.05	4.7	171 - 1656
Anacapa Island SMCA <sup>5</sup>	7.30	2.0	0 - 490
Anacapa Island SMR <sup>5</sup>	11.54	3.1	0 - 709

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<b>MPA Name</b>	<b>Size (mi<sup>2</sup>)</b>	<b>Along-shore Span<sup>6</sup> (mi)</b>	<b>Depth Range (ft)</b>
Santa Barbara Island SMR <sup>5</sup>	12.76	1.0	0 - 1655
UCSB_SMR_LAP_A_1	8.61	2.4	0 - 635
Goleta_Slough_SMP_LAP_A_1	0.25	N/A	N/A
Carpinteria_Salt_Marsh_SMR_LAP_A_1	0.28	N/A	N/A
Big_Sycamore_Canyon_SMR_LAP_A_2	13.79	3.8	0 - 1551
Malibu_East_SMR_LAP_A_1	10.27	2.8	0 - 372
Portuguese_Bend_SMCA_LAP_A_1	10.87	2.9	0 - 2237
Point Fermin_SMP_LAP_A_1	0.07	0.6	0 - 20
Bolsa Chica_SMP_LAP_A_1	0.25	N/A	N/A
Upper Newport Bay_SMP_LAP_A_1	1.10	N/A	N/A
Irvine_Coast_SMCA_LAP_A_2	0.69	4.9	0 - 38
Laguna_SMR_LAP_A_1	22.78	5.9	0 - 1871
Niguel_SMCA_LAP_A_1	0.46	1.9	0 - 32
Doheny_SMCA_LAP_A_1	0.19	1.1	0 - 14
Doheny Beach_SMCA_LAP_A_1	0.14	1.2	0 - 10
Agua Hedionda Lagoon_SMCA_A_1	0.32	N/A	N/A
Agua Hedionda Lagoon_SMR_A_1	0.11	N/A	N/A
Batiquitos Lagoon_SMP_LAP_A_1	0.28	N/A	N/A
Encinitas_SMCA_LAP_A_1	0.11	0.9	0 - 10
Cardiff-San Elijo_SMCA_LAP_A_1	1.21	2.1	0 - 59
San Elijo Lagoon_SMP_LAP_A_1	0.44	N/A	N/A
Del_Mar_SMR_LAP_A_1	10.65	3.0	0 - 1057
San Dieguito Lagoon_SMR_LAP_A_1	0.19	N/A	N/A
San Diego-Scripps_SMCA_LAP_A_1	0.11	0.5	0 - 10
La Jolla_SMCA_LAP_A_1	0.77	1.1	0 - 214
Famosa_Slough_SMR_LAP_A_1	0.53	N/A	N/A
Mia J Tegner_SMCA_LAP_A_1	0.02	0.6	0 - 10
South_San_Diego_Bay_SMCA_LAP_A_1	5.29	N/A	N/A
Catalina Marine Science Center_SMR_LAP_A_1	0.06	0.8	0 - 111
Farnsworth_Bank_SMR_LAP_A_1	1.66	1.2	135 - 344
Avalon_Dive_Park_SMR_LAP_A_1	0.01	0.2	N/A
Lover's Cove_SMR_LAP_A_1	0.02	0.3	0 - 10
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

<sup>5</sup> 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. MPAs listed below the broken line are those being proposed.

<sup>6</sup> 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 A

Habitat	Area <sup>7</sup> (sq. mi) and Percentage of Mapped Habitat in Proposal									
	SMR <sup>8</sup>		SMRMA		SMP		SMCA		Total MPAs	
	Area	%	Area	%	Area	%	Area	%	Area	%
<b>Intertidal</b>										
Sandy or gravel beach*	30.56	8%	0.00	0%	0.13	<1%	14.87	4%	45.56	12%
Rocky shores*	43.23	15%	0.00	0%	0.54	<1%	14.16	5%	57.93	21%
Hardened shores <sup>*, 9, 10</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coastal marsh*	1.31	2%	0.00	0%	16.35	27%	2.69	5%	20.35	34%
Coastal marsh	0.43	7%	0.00	0%	1.25	20%	0.22	4%	1.89	31%
Tidal flats*	1.44	5%	0.00	0%	3.70	13%	2.10	7%	7.24	25%
<b>Seagrass beds</b>										
Surfgrass*	14.27	20%	0.00	0%	0.00	0%	1.29	2%	15.56	21%
Eelgrass	0.00	0%	0.00	0%	0.06	1%	1.72	37%	1.78	38%
<b>Estuary</b>										
Estuary	1.10	3%	0.00	0%	2.32	5%	5.62	13%	9.03	21%
<b>Soft bottom</b>										
0-30 meters	27.28	6%	0.00	0%	0.01	<1%	3.27	1%	30.56	7%
0-30 meters proxy <sup>*, 11</sup>	39.94	11%	0.00	0%	0.00	0%	9.00	2%	48.94	13%
30-100 meters	87.19	13%	0.00	0%	0.00	0%	9.24	1%	96.43	14%
100-200 meters	21.94	14%	0.00	0%	0.00	0%	1.32	1%	23.26	15%
>200 meters	15.18	6%	0.00	0%	0.00	0%	4.95	2%	20.12	9%
<b>Hard bottom</b>										
0-30 meters	12.16	11%	0.00	0%	0.07	<1%	1.38	1%	13.61	12%
0-30 meters proxy <sup>*, 11</sup>	24.62	13%	0.00	0%	0.00	0%	2.56	1%	27.18	14%
30-100 meters	12.40	26%	0.00	0%	0.00	0%	0.10	<1%	12.50	26%
100-200 meters	0.66	17%	0.00	0%	0.00	0%	0.00	0%	0.66	17%
>200 meters	0.01	<1%	0.00	0%	0.00	0%	0.21	10%	0.22	10%
<b>Unknown</b>										
0-30 meters	4.84	3%	0.00	0%	2.31	2%	6.98	5%	14.13	9%
30-100 meters	34.46	16%	0.00	0%	0.00	0%	1.30	1%	35.76	17%
100-200 meters	27.70	25%	0.00	0%	0.00	0%	0.52	<1%	28.22	25%
>200 meters	45.45	23%	0.00	0%	0.00	0%	0.00	0%	45.45	23%
<b>Kelp forest</b>										
Average kelp (area)	2.31	11%	0.00	0%	0.02	<1%	0.12	1%	2.44	12%
Kelp*	23.94	13%	0.00	0%	0.11	<1%	1.27	1%	25.32	14%

<sup>7</sup> Note: Habitats measured as an area (mi<sup>2</sup>) except for those with a \* notation. Habitats with a \* notation are expressed in linear units (mi).

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

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

<sup>10</sup> 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.

<sup>11</sup> 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.