

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

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

Type of MPA <sup>1</sup>	# of MPAs	Area (mi <sup>2</sup> )	% of Study Region
State Marine Reserve (SMR)	24	214.3	9.1%
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)	15	222.6	9.5%
Undesignated <sup>2</sup>	3	59.4	2.5%
<b>All MPAs combined</b>	<b>48</b>	<b>498.7</b>	<b>21.2%</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 a 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 Opal A**

Level of Protection (LOP)	# Proposed	Area (mi <sup>2</sup> )	% of Study Region
Very High <sup>3</sup>	27	273.7	11.6%
High	2	23.0	1.0%
Moderate-High	0	0.0	0.0%
Moderate	0	0.0	0.0%
Low <sup>4</sup>	19	201.9	8.6%
<b>Total</b>	<b>48</b>	<b>498.7</b>	<b>21.2%</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 Opal 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
Santa Barbara Island SMR <sup>5</sup>	12.76	1.0	0 - 1655

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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>
UCSB_SMR_OPA_A_1	9.86	2.7	0 - 701
Goleta Slough_SMP_OPA_A_1	0.25	N/A	0 - 10
Point Mugu Sycamore_SMCA_OPA_A_1	11.13	3.1	0 - 1680
Big Sycamore SMR_OPA_A_1	11.13	3.0	0 - 1186
Point Mugu Estuary_SMR_OPA_A_1	0.71	N/A	N/A
Malibu SMR_OPA_A_1	10.08	2.7	0 - 499
Santa Monica Bay SMCA_OPA_A_1	81.44	22.5	0 - 1181
Portugese Bend SMCA_OPA_A_1	11.88	3.2	0 - 2270
Point Fermin_SMP_OPA_A_1	0.07	0.6	0 - 20
Bolsa Chica_SMP_OPA_A_1	0.25	N/A	N/A
Upper Newport Bay_SMP_OPA_A_1	1.10	N/A	N/A
CrystalCove_SMCA_OPA_A_1	0.72	3.5	0 - 62
Laguna to Newport Beach SMR OPA_A_1	11.46	2.7	0 - 1871
LagunaCoast_SMCA_OPA_A_1	0.40	1.6	0 - 49
DanaPoint_SMCA_OPA_A_1	1.05	2.6	0 - 63
DohenyBeach_SMCA_OPA_A_1	0.20	0.9	0 - 13
Agua Hedionda Lagoon_SMR_OPA_A_1	0.04	N/A	N/A
Batiquitos Lagoon_SMP_OPA_A_1	0.28	N/A	0 - 10
Encinitas_SMCA_OPA_A_1	0.11	0.9	0 - 10
Cardiff-San Elijo_SMCA_OPA_A_1	1.21	2.1	0 - 59
San Elijo Lagoon_SMP_OPA_A_1	0.44	N/A	N/A
Del Mar SMR_OPA_A_1	10.51	3.0	0 - 1057
San Digueito SMR_OPA_A_1	0.52	N/A	N/A
Penasquitos_SMR_OPA_A_1	0.35	N/A	N/A
San Diego-Scripps SMCA_OPA_A_1	0.11	0.5	0 - 10
La Jolla SMR_OPA_A_1	0.77	1.1	0 - 214
Mia J Tegner_SMR_OPA_A_1	0.02	0.6	0 - 10
Santa Catalina Island SMCA_OPA_A_1	103.42	27.0	0 - 2735
Catalina Marine Science Center_SMR_OPA_A_1	0.15	1.3	0 - 187
Farnsworth Bank_SMCA_OPA_A_1	1.74	1.1	135 - 344
Casino Point SMR_OPA_A_1	0.01	0.1	73 - 73
Lovers' Cove SMCA_OPA_A_1	0.05	0.3	96 - 125
Pending Military Closure SNI_01	25.08	7.0	0 - 287
Pending Military Closures SCI 1_01	17.27	3.9	0 - 1682
Pending Military Closures SCI 2_01	17.09	4.7	0 - 3938

<sup>5</sup> 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.

<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 Opal 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*	30.89	8%	0.00	0%	0.15	<1%	53.55	14%	84.59	22%
Rocky shores*	43.35	15%	0.00	0%	0.54	<1%	26.87	10%	70.76	25%
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*	9.68	16%	0.00	0%	16.35	27%	0.01	<1%	26.04	44%
Coastal marsh	0.80	13%	0.00	0%	1.25	20%	0.00	0%	2.05	34%
Tidal flats*	1.44	5%	0.00	0%	3.70	13%	0.23	1%	5.37	19%
<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%	0.00	0%	0.06	1%
<b>Estuary</b>										
Estuary	1.62	4%	0.00	0%	2.32	5%	0.00	0%	3.94	9%
<b>Soft bottom</b>										
0-30 meters	25.86	6%	0.00	0%	0.01	<1%	40.02	9%	65.88	15%
0-30 meters proxy*, <sup>11</sup>	38.50	11%	0.00	0%	0.00	0%	50.44	14%	88.94	25%
30-100 meters	82.39	12%	0.00	0%	0.00	0%	65.52	10%	147.91	22%
100-200 meters	20.36	13%	0.00	0%	0.00	0%	26.89	17%	47.25	30%
>200 meters	9.94	4%	0.00	0%	0.00	0%	70.77	30%	80.72	34%
<b>Hard bottom</b>										
0-30 meters	12.23	11%	0.00	0%	0.07	<1%	4.63	4%	16.92	15%
0-30 meters proxy*, <sup>11</sup>	23.74	12%	0.00	0%	0.00	0%	16.76	9%	40.50	21%
30-100 meters	11.92	25%	0.00	0%	0.00	0%	0.91	2%	12.82	27%
100-200 meters	0.66	17%	0.00	0%	0.00	0%	0.02	1%	0.68	17%
>200 meters	0.01	<1%	0.00	0%	0.00	0%	0.57	27%	0.58	27%
<b>Unknown</b>										
0-30 meters	5.21	3%	0.00	0%	2.31	2%	9.85	6%	17.37	11%
30-100 meters	34.29	16%	0.00	0%	0.00	0%	1.34	1%	35.63	17%
100-200 meters	27.60	24%	0.00	0%	0.00	0%	0.58	1%	28.17	25%
>200 meters	43.07	21%	0.00	0%	0.00	0%	1.44	1%	44.51	22%
<b>Kelp forest</b>										
Average kelp (area)	2.32	11%	0.00	0%	0.02	<1%	0.48	2%	2.81	14%
Kelp*	24.31	13%	0.00	0%	0.11	<1%	10.23	6%	34.64	19%

<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.