

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

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

Type of MPA <sup>1</sup>	# of MPAs	Area (mi <sup>2</sup> )	% of Study Region
State Marine Reserve (SMR)	36	438.6	18.7%
State Marine Recreational Managed Area (SMRMA)	0	0.0	0.0%
State Marine Park (SMP)	7	20.1	0.9%
State Marine Conservation Area (SMCA)	5	29.8	1.3%
Undesignated <sup>2</sup>	0	0.0	0.0%
<b>All MPAs combined</b>	<b>48</b>	<b>488.6</b>	<b>20.8%</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).

<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 Topaz A**

Level of Protection (LOP)	# Proposed	Area (mi <sup>2</sup> )	% of Study Region
Very High <sup>3</sup>	36	438.6	18.7%
High	1	9.1	0.4%
Moderate-High	0	0.0	0.0%
Moderate	0	0.0	0.0%
Low <sup>4</sup>	11	40.9	1.7%
<b>Total</b>	<b>48</b>	<b>488.6</b>	<b>20.8%</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 Topaz A**

MPA Name	Size (mi <sup>2</sup> )	Along-Shore Span <sup>5</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

MPA Name	Size (mi <sup>2</sup> )	Along-Shore Span <sup>5</sup> (mi)	Depth Range (ft)
Santa Barbara Island SMR <sup>5</sup>	12.76	1.0	0 - 1655
Point Conception SMR TopA 01	25.67	7.0	0 - 452
Refugio SMP TopA 01	1.94	4.9	0 - 64
Naples SMP TopA 01	15.07	4.1	0 - 911
Isla Vista SMR TopA 01	14.62	3.8	0 - 819
Deveraux_SMP_TopA_01	0.09	N/A	N/A
Goleta_SMP_TopA_01	0.25	N/A	N/A
Carp Reef_SMR_TopA_02	11.18	3.1	0 - 145
Carp Marsh_SMR_TopA_01	0.28	N/A	N/A
Muwu_SMP_TopA_01	1.44	N/A	N/A
Point Dume_SMR_TopA_01	19.84	5.2	0 - 1976
Palos Verdes SMR TopA 01	19.44	5.6	0 - 2239
Bolsa Chica_SMP_TopA_01	0.25	N/A	N/A
Upper Newport Bay_SMP_TopA_01	1.10	N/A	N/A
Laguna Coast SMR TopA 01	21.10	12.3	0 - 704
Agua Hedionda Lagoon SMR_TopA_01	0.05	N/A	N/A
Encinitas SMR TopA 01	13.01	3.6	0 - 982
La Jolla Shores SMR TopA 01	2.61	1.8	0 - 709
Pacific Beach SMR TopA 01	9.22	2.5	0 - 290
Point Loma SMR TopA 01	3.99	1.1	0 - 346
Cabrillo SMR TopA 01	0.36	1.4	0 - 22
South San Diego Bay_SMR_TopA_01	2.40	N/A	N/A
ImperialBeach_SMCA_TopA_01	10.49	2.9	0 - 99
TijuanaRiverEstuary_SMR_TopA_01	0.75	N/A	N/A
West End SMR TopA 01	13.61	3.7	0 - 2316
Northeast Catalina SMCA TopA 01	1.19	2.7	0 - 370
Blue Cavern SMR TopA 01	1.71	1.2	0 - 677
Long Point SMR TopA 01	3.01	2.9	0 - 729
Long Point_SMCA_TopA_01	9.07	3.5	629 - 2735
Avalon SMR TopA 01	0.47	1.2	0 - 281
Southwest Catalina SMR TopA 01	13.78	8.3	0 - 584
Begg Rock SMR_TopA	11.48	2.9	219 - 332
San Nicolas Island SMR_TopA	44.33	9.1	0 - 914
Castle Rock SMR TopA 01	25.64	5.9	0 - 3520
West San Clemente Island SMR TopA 01	12.31	6.1	0 - 984
Pyramid Head SMR TopA 01	9.11	7.1	0 - 2000

<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 Topaz 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*	69.42	18%	0.00	0%	5.82	2%	4.26	1%	79.50	21%
Rocky shores*	91.62	33%	0.00	0%	4.85	2%	9.01	3%	105.48	38%
Hardened Shores <sup>*,9</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coastal marsh*	11.45	19%	0.00	0%	21.85	37%	0.00	0%	33.30	56%
Coastal marsh	0.82	13%	0.00	0%	1.74	29%	0.00	0%	2.56	42%
Tidal flats*	1.75	6%	0.00	0%	4.60	16%	0.00	0%	6.35	22%
<b>Seagrass beds</b>										
Surfgrass*	14.27	20%	0.00	0%	0.00	0%	1.29	2%	15.56	21%
Eelgrass	0.75	16%	0.00	0%	0.00	0%	0.00	0%	0.75	16%
<b>Estuary</b>										
Estuary	3.47	8%	0.00	0%	3.13	7%	0.00	0%	6.60	15%
<b>Soft bottom</b>										
0-30 meters	45.87	10%	0.00	0%	4.18	1%	7.61	2%	57.67	13%
0-30 meters proxy <sup>*,11</sup>	66.89	18%	0.00	0%	5.44	1%	6.70	2%	79.02	22%
30-100 meters	150.27	22%	0.00	0%	9.84	1%	6.95	1%	167.05	25%
100-200 meters	35.31	22%	0.00	0%	0.82	1%	0.22	<1%	36.35	23%
>200 meters	22.08	9%	0.00	0%	0.17	<1%	8.81	4%	31.06	13%
<b>Hard bottom</b>										
0-30 meters	38.83	35%	0.00	0%	1.50	1%	3.38	3%	43.72	39%
0-30 meters proxy <sup>*,11</sup>	62.90	33%	0.00	0%	3.71	2%	3.39	2%	70.01	37%
30-100 meters	23.93	50%	0.00	0%	0.00	0%	0.05	<1%	23.99	50%
100-200 meters	1.02	26%	0.00	0%	0.00	0%	0.00	0%	1.02	26%
>200 meters	0.86	40%	0.00	0%	0.00	0%	0.06	3%	0.92	43%
<b>Unknown</b>										
0-30 meters	10.54	7%	0.00	0%	3.59	2%	0.75	<1%	14.87	10%
30-100 meters	40.58	19%	0.00	0%	0.00	0%	1.31	1%	41.89	20%
100-200 meters	31.65	28%	0.00	0%	0.00	0%	0.52	<1%	32.17	28%
>200 meters	37.54	19%	0.00	0%	0.05	<1%	0.17	<1%	37.75	19%
<b>Kelp forest</b>										
Average kelp (area)	7.77	37%	0.00	0%	0.33	2%	0.05	<1%	8.14	39%
Kelp*	62.50	34%	0.00	0%	3.63	2%	0.84	<1%	66.98	37%

<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.