

**California MLPA Initiative**  
**MLPA North Coast Study Region: Round 2 Evaluations**  
**Staff Summary of Area and Habitats in Sapphire Draft MPA Proposal 1**  
*Document Created: June 17, 2010*

**Table 1. Summary of MPAs by Designation for Sapphire Draft MPA Proposal 1**

Type of MPA <sup>a</sup>	# of MPAs	Area (mi <sup>2</sup> )	% of Study Region
State Marine Reserve (SMR)	6	74.45	7.2%
State Marine Recreational Managed Area (SMRMA)	2	4.35	0.4%
State Marine Park (SMP)	1	0.16	<0.1%
State Marine Conservation Area (SMCA)	11	67.06	6.5%
<b>All MPAs combined</b>	<b>20</b>	<b>146.02</b>	<b>14.2%</b>

<sup>a</sup> 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.

**Table 2. Summary of MPAs by Level of Protection for Sapphire Draft MPA Proposal 1**

Level of Protection (LOP)	# of MPAs	Area (mi <sup>2</sup> )	% of Study Region
Very High <sup>b</sup>	6	74.45	7.2%
High	0	0.00	0.0%
Moderate-High	2	39.97	3.9%
Moderate	0	0.00	0.0%
Low <sup>c</sup>	1	2.02	0.2%
Undetermined <sup>d</sup>	11	29.57	2.9%
<b>Total</b>	<b>20</b>	<b>146.02</b>	<b>14.2%</b>

<sup>b</sup> The "Very High" category includes MPAs with SMR designation, as well as SMRMA designations that do not propose tribal uses.

<sup>c</sup> The "Low" category groups together MPAs that are assigned a moderate-low and low level of protection.

<sup>d</sup> The "Undetermined" category includes MPAs that propose traditional, non-commercial, tribal uses, but do not identify the species and gear types. These MPAs may or may not have additional proposed allowed uses.

**Table 3. Individual MPAs in Sapphire Draft MPA Proposal 1**

MPA Name	Size <sup>e</sup> (mi <sup>2</sup> )	Alongshore Span <sup>f</sup> (mi)	Depth Range <sup>g</sup> (ft)
Pyramid Point SMR	14.62	3.5	11 - 124
Pyramid Point SMCA <sup>h</sup>	1.68	3.5	0 - 31
Wilson Rock SMCA <sup>h</sup>	11.65	2.6	0 - 121
Reading Rock SMR	15.38	2.9	87 - 252
Reading Rock SMCA <sup>h</sup>	8.80	2.9	0 - 101
North Humboldt Bay SMRMA <sup>h</sup>	1.91	N/A	Depth data not available
South Humboldt Bay SMRMA <sup>h</sup>	2.44	N/A	Depth data not available
South Cape Mendocino SMR	10.47	1.6	0 - 277
Mattole Canyon Offshore SMR	11.30	3.5	41 - 1646
Petrolia Lighthouse SMR	15.69	3.3	0 - 375
Big Flat SMCA	15.76	3.4	0 - 1110
Vizcaino SMCA	24.22	6.4	0 - 395
Ten Mile SMR	6.98	2.3	78 - 335
Ten Mile SMCA <sup>h</sup>	2.07	2.3	0 - 92
Ten Mile Estuary SMCA <sup>h</sup>	0.19	N/A	Depth data not available
MacKerricher SMCA	2.02	3.1	0 - 106
Point Cabrillo SMCA <sup>h</sup>	0.54	1.0	0 - 76
Big River Estuary SMP <sup>h</sup>	0.16	N/A	Depth data not available
Albion River Estuary SMCA <sup>h</sup>	0.05	N/A	Depth data not available
Navarro River Estuary SMCA <sup>h</sup>	0.09	N/A	Depth data not available

<sup>e</sup> Size is measured in square statute miles.

<sup>f</sup> Alongshore span measured as direct line from one end of the MPA to the other, roughly paralleling the coastline. An alongshore span is not calculated for estuarine MPAs.

<sup>g</sup> 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.

<sup>h</sup> Tribal uses are proposed in this MPA.

**Table 4. Habitat Representation in Sapphire Draft MPA Proposal 1**

Habitat <sup>i</sup>	SMR		SMRMA		SMP		SMCA		Total MPAs	
	Area	%	Area	%	Area	%	Area	%	Area	%
Intertidal										
Sandy or gravel beach*	0.98	1%	0.00	0%	0.00	0%	19.00	11%	19.98	11%
Rocky shores*	5.27	3%	0.28	<1%	0.44	<1%	19.08	12%	25.06	16%

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Habitat <sup>i</sup>	SMR		SMRMA		SMP		SMCA		Total MPAs	
	Area	%	Area	%	Area	%	Area	%	Area	%
Hardened shores*	0.00	0%	0.00	0%	0.00	0%	0.00	0%	0.00	0%
Coastal marsh*	0.00	0%	5.48	6%	3.44	4%	2.94	3%	11.86	13%
Coastal marsh	0.00	0%	0.23	7%	0.03	1%	0.06	2%	0.33	9%
Tidal flats*	0.00	0%	3.31	5%	0.01	<1%	0.33	<1%	3.64	5%
Seagrass beds										
Humboldt Eelgrass	0.00	0%	0.92	13%	0.00	0%	0.00	0%	0.92	13%
Estuarine										
Estuary	0.00	0%	4.35	10%	0.16	<1%	0.33	1%	4.83	11%
Hard bottom										
0-30 meters proxy (original)* <sup>j</sup>	2.10	4%	0.00	0%	0.00	0%	5.70	10%	7.79	14%
0-30 meters proxy (revised)* <sup>j</sup>	2.01	4%	0.00	0%	0.00	0%	4.90	10%	6.91	14%
15 meter isobath* <sup>j</sup>	2.02	4%	0.00	0%	0.00	0%	5.50	11%	7.52	15%
0-30 meters <sup>j</sup>	1.61	5%	0.00	0%	0.00	0%	2.72	8%	4.33	13%
30-100 meters	7.99	24%	0.00	0%	0.00	0%	0.20	1%	8.18	24%
100-200 meters	0.25	37%	0.00	0%	0.00	0%	0.01	1%	0.26	38%
>200 meters	0.02	28%	0.00	0%	0.00	0%	0.01	14%	0.03	42%
Soft bottom										
0-30 meters proxy (original)* <sup>j</sup>	7.77	4%	0.00	0%	0.00	0%	15.86	9%	23.63	13%
0-30 meters proxy (revised)* <sup>j</sup>	7.86	4%	0.00	0%	0.00	0%	16.66	9%	24.52	13%
15 meter isobath* <sup>j</sup>	8.65	5%	0.00	0%	0.00	0%	16.36	9%	25.01	13%
0-30 meters <sup>j</sup>	16.36	5%	0.00	0%	0.00	0%	21.55	7%	37.91	13%
30-100 meters	40.32	9%	0.00	0%	0.00	0%	26.19	6%	66.50	15%
100-200 meters	3.47	6%	0.00	0%	0.00	0%	7.86	13%	11.33	18%
>200 meters	1.58	21%	0.00	0%	0.00	0%	0.59	8%	2.17	28%
Unknown										
0-30 meters	2.57	2%	4.35	3%	0.16	<1%	7.91	6%	14.99	12%
30-100 meters	0.28	9%	0.00	0%	0.00	0%	0.02	1%	0.30	10%
100-200 meters	0.00	0%	0.00	0%	0.00	0%	0.00	0%	0.00	0%
>200 meters	0.00	0%	0.00	0%	0.00	0%	0.00	0%	0.00	0%
Other										
Offshore rocks*	2.07	4%	0.00	0%	0.00	0%	6.07	11%	8.13	15%
Canyon	1.48	20%	0.00	0%	0.00	0%	0.67	9%	2.15	28%

Habitat <sup>i</sup>	SMR		SMRMA		SMP		SMCA		Total MPAs	
	Area	%	Area	%	Area	%	Area	%	Area	%
Linear kelp*	0.19	<1%	0.00	0%	0.00	0%	6.61	13%	6.81	13%

<sup>i</sup> Habitats are 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>j</sup> Four measurements for hard and soft substrate within the 0-30 meter zone have been included here for reference. The MLPA Master Plan Science Advisory Team (SAT) Habitat Work Group is recommending to the full SAT that the revised 0-30 meter proxy line is most appropriate measure for use in the habitat analyses; this approach will be discussed at the June 29-30, 2010 SAT meeting.