

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

Table 1. Summary of MPAs by Designation for Ruby Draft MPA Proposal 2

Type of MPA ^a	# of MPAs	Area (mi ²)	% of Study Region
State Marine Reserve (SMR)	4	40.95	4.0%
State Marine Recreational Managed Area (SMRMA)	1	0.65	0.1%
State Marine Park (SMP)	1	0.30	<0.1%
State Marine Conservation Area (SMCA)	6	44.44	4.3%
All MPAs combined	12	86.36	8.4%

^a 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 Ruby Draft MPA Proposal 2

Level of Protection (LOP)	# of MPAs	Area (mi ²)	% of Study Region
Very High ^b	4	40.95	4.0%
High	0	0.00	0.0%
Moderate-High	2	40.90	4.0%
Moderate	0	0.00	0.0%
Low ^c	0	0.00	0.0%
Undetermined ^d	6	4.50	0.4%
Total	12	86.36	8.4%

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

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

^d 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 Ruby Draft MPA Proposal 2

MPA Name	Size ^e (mi ²)	Alongshore Span ^f (mi)	Depth Range ^g (ft)
Pyramid Point SMR	12.54	2.9	16 - 124
Pyramid Point SMCA ^h	1.47	2.9	0 - 32
Reading Rock Offshore SMCA	17.47	2.9	32 - 244
Reading Rock Nearshore SMCA ^h	1.68	2.9	0 - 41
South Humboldt Bay SMRMA ^h	0.65	N/A	Depth data not available
South Cape Mendocino SMR	9.60	1.6	0 - 277
Mattole Canyon SMR	9.69	3.5	82 - 1646
Petrolia Lighthouse SMR	9.12	1.8	0 - 374
Vizcaino SMCA	23.43	6.3	0 - 395
Ten Mile Estuary SMCA ^h	0.19	N/A	Depth data not available
Big River Estuary SMP ^h	0.30	N/A	Depth data not available
Navarro River Estuary SMCA ^h	0.20	N/A	Depth data not available

^e Size is measured in square statute miles.

^f 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.

^g 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.

^h Tribal uses are proposed in this MPA.

Table 4. Habitat Representation in Ruby Draft MPA Proposal 2

Habitat ⁱ	SMR		SMRMA		SMP		SMCA		Total MPAs	
	Area	%	Area	%	Area	%	Area	%	Area	%
Intertidal										
Sandy or gravel beach*	0.84	<1%	0.00	0%	0.19	<1%	9.77	5%	10.80	6%
Rocky shores*	3.33	2%	0.27	<1%	0.73	<1%	5.33	3%	9.66	6%
Hardened shores*	0.00	0%	0.00	0%	0.00	0%	0.00	0%	0.00	0%
Coastal marsh*	0.00	0%	1.51	2%	3.55	4%	2.94	3%	8.00	9%
Coastal marsh	0.00	0%	0.04	1%	0.05	1%	0.06	2%	0.15	4%
Tidal flats*	0.00	0%	0.12	<1%	0.28	<1%	0.36	1%	0.76	1%
Seagrass beds										
Humboldt Eelgrass	0.00	0%	0.06	1%	0.00	0%	0.00	0%	0.06	1%
Estuarine										
Estuary	0.00	0%	0.65	2%	0.30	1%	0.39	1%	1.35	3%

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Habitat ⁱ	SMR		SMRMA		SMP		SMCA		Total MPAs	
	Area	%	Area	%	Area	%	Area	%	Area	%
Hard bottom										
0-30 meters proxy (original) ^{*j}	1.20	2%	0.00	0%	0.00	0%	2.53	5%	3.72	7%
0-30 meters proxy (revised) ^{*j}	1.13	2%	0.00	0%	0.00	0%	1.96	4%	3.08	6%
15 meter isobath ^{*j}	1.20	2%	0.00	0%	0.00	0%	2.14	4%	3.34	7%
0-30 meters ^j	0.94	3%	0.00	0%	0.00	0%	1.00	3%	1.94	6%
30-100 meters	5.39	16%	0.00	0%	0.00	0%	0.16	<1%	5.56	17%
100-200 meters	0.23	33%	0.00	0%	0.00	0%	0.00	0%	0.23	33%
>200 meters	0.02	28%	0.00	0%	0.00	0%	0.00	0%	0.02	28%
Soft bottom										
0-30 meters proxy (original) ^{*j}	5.72	3%	0.00	0%	0.00	0%	6.64	4%	12.36	7%
0-30 meters proxy (revised) ^{*j}	5.79	3%	0.00	0%	0.00	0%	7.21	4%	13.00	7%
15 meter isobath ^{*j}	5.84	3%	0.00	0%	0.00	0%	7.16	4%	13.00	7%
0-30 meters ^j	12.38	4%	0.00	0%	0.00	0%	11.65	4%	24.02	8%
30-100 meters	15.67	3%	0.00	0%	0.00	0%	23.28	5%	38.95	9%
100-200 meters	2.57	4%	0.00	0%	0.00	0%	3.92	6%	6.49	10%
>200 meters	1.61	21%	0.00	0%	0.00	0%	0.00	0%	1.61	21%
Unknown										
0-30 meters	1.85	1%	0.65	1%	0.30	<1%	4.39	3%	7.20	6%
30-100 meters	0.28	9%	0.00	0%	0.00	0%	0.04	1%	0.32	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 [*]	1.30	2%	0.00	0%	0.00	0%	1.95	4%	3.25	6%
Canyon	1.50	20%	0.00	0%	0.00	0%	0.00	0%	1.50	20%
Linear kelp [*]	0.19	<1%	0.00	0%	0.00	0%	2.17	4%	2.37	5%

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

^j 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.