

California MLPA North Central Coast Project
Habitat Calculations for the Northern Bioregion MPAs in the North Central Coast
Integrated Preferred Alternative (IPA)
Created on: April 23, 2008

	How Measured	Total Available Habitat	Point Arena SMR	Point Arena SMCA	Sea Lion Cove SMCA
GIS Identification Number			aa20	aa1	DD46
MPA Classification			SMR	SMCA	SMCA
SAT Level of Protection			Very High	High	Mod-low
SAT Evaluation Subregion			North	North	North
Area	Area (mi ²)	762.99	4.38	6.73	0.22
Alongshore Span	Linear (mi)	161.20	3.00	3.00	0.70
ESI Shoreline Length	Linear (mi)	367.49	1.63	0.00	2.33
Min Depth	Feet		0.00	153.00	0.00
Max Depth	Feet		173.00	324.00	39.00
Sandy or gravel Beaches	Linear (mi)	119.35	0.00	0.00	0.07
Rocky intertidal and cliff	Linear (mi)	167.17	1.63	0.00	2.26
Coastal marsh	Linear (mi)	51.33	0.00	0.00	0.00
Coastal marsh	Area (mi ²)	1.56	0.00	0.00	0.00
Tidal flats	Linear (mi)	18.23	0.00	0.00	0.00
Surfgrass	Linear (mi)	68.77	0.00	0.00	0.00
Eelgrass	Area (mi ²)	6.05	0.00	0.00	0.00
Estuary	Area (mi ²)	19.47	0.00	0.00	0.00
soft 0 - 30m	Area (mi ²)	148.74	0.00	0.00	0.00
soft 0 - 30m	Linear (mi)	101.34	0.29	0.00	0.00
soft 30 - 100m	Area (mi ²)	414.05	1.54	6.42	0.00
soft 100 - 200m	Area (mi ²)	5.46	0.00	0.07	0.00
soft 200 - 3000m	Area (mi ²)	0.00	0.00	0.00	0.00
hard 0 - 30m*	Area (mi ²)	34.18	0.26	0.00	0.05
hard 0 - 30m	Linear (mi)	80.55	2.39	0.00	0.00
hard 30 - 100m	Area (mi ²)	52.15	1.47	0.24	0.00
hard 100 - 200m	Area (mi ²)	0.00	0.00	0.00	0.00
hard 200 - 3000m	Area (mi ²)	0.00	0.00	0.00	0.00
unknown 0 - 30m	Area (mi ²)	106.45	1.07	0.00	0.17
unknown 30 - 100m	Area (mi ²)	1.42	0.02	0.00	0.00
unknown 100 - 200m	Area (mi ²)	0.00	0.00	0.00	0.00
unknown 200 - 3000m	Area (mi ²)	0.00	0.00	0.00	0.00
Hard substrate < 50m deep	Area (mi ²)	62.11	1.59	0.00	0.05
Soft substrate < 50m deep	Area (mi ²)	273.91	1.51	0.18	0.00
Unknown substrate < 50m deep	Area (mi ²)	103.43	1.09	0.00	0.14
Kelp 1989	Area (mi ²)	3.21	0.09	0.00	0.02
Kelp 1999	Area (mi ²)	1.77	0.10	0.00	0.01
Kelp 2002	Area (mi ²)	1.84	0.00	0.00	0.00
Kelp 2003	Area (mi ²)	1.20	0.00	0.00	0.01
Kelp 2004	Area (mi ²)	1.40	0.02	0.00	0.01
Kelp 2005	Area (mi ²)	0.89	0.03	0.00	0.00
Average Kelp	Area (mi ²)	1.72	0.04	0.00	0.01
Average Kelp	Linear (mi)	35.11	1.68	0.00	0.26

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	How Measured	Saunders Reef SMCA	Del Mar Landing SMR	Stewarts Point SMR	Salt Point SMP
GIS Identification Number		RQ1	DD8	RQ2	RQ3
MPA Classification		SMCA	SMR	SMR	SMP
SAT Level of Protection		Mod-low	Very High	Very High	Mod-low
SAT Evaluation Subregion		North	North	North	North
Area	Area (mi ²)	9.35	0.22	25.22	3.12
Alongshore Span	Linear (mi)	3.00	0.60	7.00	2.4
ESI Shoreline Length	Linear (mi)	4.64	1.05	12.69	5.89
Min Depth	Feet	0.00	0.00	0.00	0.00
Max Depth	Feet	276.00	87.00	294.00	241.00
Sandy or gravel Beaches	Linear (mi)	0.36	0.00	1.26	0.63
Rocky intertidal and cliff	Linear (mi)	4.28	1.05	11.43	5.26
Coastal marsh	Linear (mi)	0.00	0.00	0.00	0.00
Coastal marsh	Area (mi ²)	0.00	0.00	0.00	0.00
Tidal flats	Linear (mi)	0.00	0.00	0.00	0.00
Surfgrass	Linear (mi)	0.00	0.00	0.00	0.00
Eelgrass	Area (mi ²)	0.00	0.00	0.00	0.00
Estuary	Area (mi ²)	0.00	0.00	0.00	0.00
soft 0 - 30m	Area (mi ²)	0.03	0.00	0.11	0.03
soft 0 - 30m	Linear (mi)	0.19	0.00	0.65	0.48
soft 30 - 100m	Area (mi ²)	5.26	0.00	21.94	1.32
soft 100 - 200m	Area (mi ²)	0.00	0.00	0.00	0.00
soft 200 - 3000m	Area (mi ²)	0.00	0.00	0.00	0.00
hard 0 - 30m*	Area (mi ²)	1.03	0.04	1.30	0.73
hard 0 - 30m	Linear (mi)	2.52	0.34	6.42	3.22
hard 30 - 100m	Area (mi ²)	1.65	0.02	0.95	0.68
hard 100 - 200m	Area (mi ²)	0.00	0.00	0.00	0.00
hard 200 - 3000m	Area (mi ²)	0.00	0.00	0.00	0.00
unknown 0 - 30m	Area (mi ²)	1.38	0.16	0.87	0.34
unknown 30 - 100m	Area (mi ²)	0.01	0.00	0.04	0.01
unknown 100 - 200m	Area (mi ²)	0.00	0.00	0.00	0.00
unknown 200 - 3000m	Area (mi ²)	0.00	0.00	0.00	0.00
Hard substrate < 50m deep	Area (mi ²)	2.14	0.05	1.88	0.93
Soft substrate < 50m deep	Area (mi ²)	0.40	0.00	1.45	0.15
Unknown substrate < 50m deep	Area (mi ²)	1.36	0.10	0.68	0.29
Kelp 1989	Area (mi ²)	0.51	0.01	0.43	0.23
Kelp 1999	Area (mi ²)	0.11	0.00	0.12	0.07
Kelp 2002	Area (mi ²)	0.00	0.01	0.42	0.32
Kelp 2003	Area (mi ²)	0.18	0.00	0.14	0.06
Kelp 2004	Area (mi ²)	0.15	0.00	0.13	0.14
Kelp 2005	Area (mi ²)	0.21	0.01	0.02	0.01
Average Kelp	Area (mi ²)	0.20	0.01	0.21	0.14
Average Kelp	Linear (mi)	1.11	0.17	6.21	3.84

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	How Measured	Gerstle Cove SMR	Russian River SMR	Russian River SMCA	Bodega Head SMR
GIS Identification Number		aa26	aa24	aa4	XX3
MPA Classification		SMR	SMR	SMCA	SMR
SAT Level of Protection		Very High	Very High	Moderate	Very High
SAT Evaluation Subregion		North	North	North	North
Area	Area (mi ²)	0.01	0.35	0.86	9.30
Alongshore Span	Linear (mi)	0.2	1.8	1.0	2.5
ESI Shoreline Length	Linear (mi)	0.42	4.14	1.92	4.05
Min Depth	Feet	0.00	0.00	0.00	0.00
Max Depth	Feet	10.00	10.00	57.00	266.00
Sandy or gravel Beaches	Linear (mi)	0.04	1.87	1.23	1.32
Rocky intertidal and cliff	Linear (mi)	0.38	0.00	0.53	2.73
Coastal marsh	Linear (mi)	0.00	2.27	0.00	0.00
Coastal marsh	Area (mi ²)	0.00	0.07	0.00	0.00
Tidal flats	Linear (mi)	0.00	0.00	0.00	0.00
Surfgrass	Linear (mi)	0.00	0.00	0.00	2.59
Eelgrass	Area (mi ²)	0.00	0.00	0.00	0.00
Estuary	Area (mi ²)	0.00	0.34	0.00	0.00
soft 0 - 30m	Area (mi ²)	0.00	0.35	0.00	0.24
soft 0 - 30m	Linear (mi)	0.00	0.00	0.00	0.26
soft 30 - 100m	Area (mi ²)	0.00	0.00	0.00	5.37
soft 100 - 200m	Area (mi ²)	0.00	0.00	0.00	0.00
soft 200 - 3000m	Area (mi ²)	0.00	0.00	0.00	0.00
hard 0 - 30m*	Area (mi ²)	0.00	0.00	0.02	1.17
hard 0 - 30m	Linear (mi)	0.00	0.00	0.00	2.26
hard 30 - 100m	Area (mi ²)	0.00	0.00	0.00	1.84
hard 100 - 200m	Area (mi ²)	0.00	0.00	0.00	0.00
hard 200 - 3000m	Area (mi ²)	0.00	0.00	0.00	0.00
unknown 0 - 30m	Area (mi ²)	0.01	0.00	0.84	0.64
unknown 30 - 100m	Area (mi ²)	0.00	0.00	0.00	0.04
unknown 100 - 200m	Area (mi ²)	0.00	0.00	0.00	0.00
unknown 200 - 3000m	Area (mi ²)	0.00	0.00	0.00	0.00
Hard substrate < 50m deep	Area (mi ²)	0.00	0.00	0.02	2.14
Soft substrate < 50m deep	Area (mi ²)	0.00	0.08	0.00	0.34
Unknown substrate < 50m deep	Area (mi ²)	0.00	0.00	0.82	0.49
Kelp 1989	Area (mi ²)	0.00	0.00	0.00	0.00
Kelp 1999	Area (mi ²)	0.00	0.00	0.00	0.00
Kelp 2002	Area (mi ²)	0.00	0.00	0.00	0.00
Kelp 2003	Area (mi ²)	0.00	0.00	0.00	0.00
Kelp 2004	Area (mi ²)	0.00	0.00	0.00	0.00
Kelp 2005	Area (mi ²)	0.00	0.00	0.00	0.00
Average Kelp	Area (mi ²)	0.00	0.00	0.00	0.00
Average Kelp	Linear (mi)	0.00	0.00	0.00	0.00

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	How Measured	Bodega Head SMCA	Estero Americano SMRMA	Estero de San Antonio SMRMA
GIS Identification Number		XX7	JD13	JD14
MPA Classification		SMCA	SMRMA	SMRMA
SAT Level of Protection		Mod-high	Very High	Very High
SAT Evaluation Subregion		North	North	North
Area	Area (mi ²)	12.34	0.15	0.09
Alongshore Span	Linear (mi)	3.8	1.2	1.0
ESI Shoreline Length	Linear (mi)	0.29	1.27	1.94
Min Depth	Feet	0.00	0.00	0.00
Max Depth	Feet	267.00	10.00	10.00
Sandy or gravel Beaches	Linear (mi)	0.00	0.41	0.57
Rocky intertidal and cliff	Linear (mi)	0.29	0.44	0.46
Coastal marsh	Linear (mi)	0.00	0.42	0.00
Coastal marsh	Area (mi ²)	0.00	0.00	0.05
Tidal flats	Linear (mi)	0.00	0.00	0.92
Surfgrass	Linear (mi)	0.31	0.00	0.00
Eelgrass	Area (mi ²)	0.00	0.10	0.00
Estuary	Area (mi ²)	0.00	0.14	0.09
soft 0 - 30m	Area (mi ²)	0.03	0.15	0.09
soft 0 - 30m	Linear (mi)	0.00	0.00	0.00
soft 30 - 100m	Area (mi ²)	6.33	0.00	0.00
soft 100 - 200m	Area (mi ²)	0.00	0.00	0.00
soft 200 - 3000m	Area (mi ²)	0.00	0.00	0.00
hard 0 - 30m*	Area (mi ²)	0.77	0.00	0.00
hard 0 - 30m	Linear (mi)	1.33	0.00	0.00
hard 30 - 100m	Area (mi ²)	5.12	0.00	0.00
hard 100 - 200m	Area (mi ²)	0.00	0.00	0.00
hard 200 - 3000m	Area (mi ²)	0.00	0.00	0.00
unknown 0 - 30m	Area (mi ²)	0.04	0.00	0.00
unknown 30 - 100m	Area (mi ²)	0.06	0.00	0.00
unknown 100 - 200m	Area (mi ²)	0.00	0.00	0.00
unknown 200 - 3000m	Area (mi ²)	0.00	0.00	0.00
Hard substrate < 50m deep	Area (mi ²)	2.82	0.00	0.00
Soft substrate < 50m deep	Area (mi ²)	0.08	0.00	0.00
Unknown substrate < 50m deep	Area (mi ²)	0.03	0.00	0.00
Kelp 1989	Area (mi ²)	0.00	0.00	0.00
Kelp 1999	Area (mi ²)	0.00	0.00	0.00
Kelp 2002	Area (mi ²)	0.00	0.00	0.00
Kelp 2003	Area (mi ²)	0.00	0.00	0.00
Kelp 2004	Area (mi ²)	0.00	0.00	0.00
Kelp 2005	Area (mi ²)	0.00	0.00	0.00
Average Kelp	Area (mi ²)	0.00	0.00	0.00
Average Kelp	Linear (mi)	0.00	0.00	0.00