

**California MLPA South Coast Project**  
**Habitat Calculations for Draft MPA Proposal 0 (Existing MPAs)**  
*Document Revision Date June 16 , 2009*

	How Measured	Total Available Habitat	Refugio SMCA	Goleta Slough SMP	Big Sycamore Canyon SMR	Abalone Cove SMP	Point Fermin SMP	Bolsa Chica SMP	Upper Newport Bay SMP
<b>MPA ID</b>			5812	5816	5811	5819	5813	5814	5818
<b>MPA Designation</b>			SMCA	SMP	SMR	SMP	SMP	SMP	SMP
<b>Level of Protection</b>			Low	Low	Very High	moderate low	moderate low	Low	Low
<b>SAT Evaluation Bioregion</b>			North Mainland	North Mainland	North Mainland	South Mainland	South Mainland	South Mainland	South Mainland
<b>Area</b>	sq miles	2,350.88	1.03	0.25	2.22	0.10	0.07	0.25	1.10
<b>Alongshore Span</b>	miles	NA	2.6	N/A	2.5	0.8	0.6	N/A	N/A
<b>ESI Shoreline</b>	miles	1,046.45	2.62	3.48	0.00	1.10	0.54	4.40	9.42
<b>Min Depth</b>	feet	0.00	0.00	0.00	0.00	0.00	0.00	N/A	N/A
<b>Max Depth</b>	feet	3,938.00	51.00	10.00	130.00	10.00	20.00	N/A	N/A
<b>Beaches</b>	miles	379.63	1.14	0.15	0.00	0.71	0.00	0.00	0.00
<b>Rocky Shores</b>	miles	280.72	1.48	0.00	0.00	0.40	0.54	0.00	0.00
<b>Hardened Shores</b>	miles	297.85	0.00	0.00	0.00	0.00	0.00	0.92	0.04
<b>Coastal Marsh</b>	miles	59.49	0.00	2.76	0.00	0.00	0.00	2.49	7.24
<b>Coastal Marsh (area)</b>	sq miles	6.11	0.00	0.19	0.00	0.00	0.00	0.08	0.74
<b>Tidal Flats</b>	miles	28.76	0.00	0.56	0.00	0.00	0.00	0.99	2.15
<b>Surfgrass</b>	miles	72.43	1.76	0.00	0.00	0.39	0.00	0.00	0.00
<b>Eelgrass</b>	sq miles	4.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Estuary</b>	sq miles	43.30	0.00	0.25	0.00	0.00	0.00	0.25	1.10
<b>soft 0 - 30m</b>	sq miles	437.18	0.71	0.00	1.85	0.01	0.00	0.00	0.00
<b>soft 0 - 30m proxy</b>	miles	362.57	1.72	0.00	2.18	0.10	0.00	0.00	0.00
<b>soft 30 - 100m</b>	sq miles	672.06	0.00	0.00	0.38	0.00	0.00	0.00	0.00
<b>soft 100 - 200m</b>	sq miles	158.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>soft 200 - 3000m</b>	sq miles	234.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>hard 0 - 30m</b>	sq miles	111.73	0.25	0.00	0.00	0.05	0.07	0.00	0.00
<b>hard 0 - 30m proxy</b>	miles	191.62	0.80	0.00	0.00	0.10	0.00	0.00	0.00
<b>hard 30 - 100m</b>	sq miles	47.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>hard 100 - 200m</b>	sq miles	3.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>hard 200 - 3000m</b>	sq miles	2.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>unknown 0 - 30m</b>	sq miles	153.85	0.07	0.25	0.00	0.03	0.00	0.25	1.10
<b>unknown 30 - 100m</b>	sq miles	213.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>unknown 100 - 200 m</b>	sq miles	113.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>unknown 200 - 3000m</b>	sq miles	201.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Maximum kelp (linear)</b>	miles	336.55	1.90	0.00	0.00	0.12	0.00	0.00	0.00
<b>Kelp (linear)</b>	miles	182.61	0.85	0.00	0.00	0.01	0.11	0.00	0.00

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	<b>Robert E Badham SMCA</b>	<b>Crystal Cove SMCA</b>	<b>Irvine Coast SMCA</b>	<b>Heisler Park SMR</b>	<b>Laguna Beach SMCA</b>	<b>South Laguna Beach SMCA</b>	<b>Niguel SMCA</b>	<b>Dana Point SMCA</b>
<b>MPA ID</b>	5820	5821	5822	5808	5823	5824	5825	5826
<b>MPA Designation</b>	SMCA	SMCA	SMCA	SMR	SMCA	SMCA	SMCA	SMCA
<b>Level of Protection</b>	moderate low	Low	moderate low	Very High	moderate low	moderate low	moderate low	moderate low
<b>SAT Evaluation Bioregion</b>	South Mainland	South Mainland	South Mainland	South Mainland	South Mainland	South Mainland	South Mainland	South Mainland
<b>Area</b>	0.02	1.80	0.35	0.04	0.53	0.05	0.49	0.20
<b>Alongshore Span</b>	0.6	3.1	3.1	0.4	4.4	0.4	2.0	0.8
<b>ESI Shoreline</b>	0.72	3.32	3.30	0.40	5.15	0.47	2.32	1.06
<b>Min Depth</b>	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Max Depth</b>	10.0	136.00	14.00	11.00	41.00	22.00	53.00	34.00
<b>Beaches</b>	0.10	2.42	2.43	0.21	2.94	0.26	1.80	0.15
<b>Rocky Shores</b>	0.62	0.89	0.87	0.19	2.11	0.21	0.52	0.68
<b>Hardened Shores</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
<b>Coastal Marsh</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Coastal Marsh (area)</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Tidal Flats</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Surfgrass</b>	0.00	0.04	0.01	0.00	0.48	0.00	0.56	0.45
<b>Eelgrass</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Estuary</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>soft 0 - 30m</b>	0.00	0.75	0.02	0.00	0.04	0.01	0.07	0.16
<b>soft 0 - 30m proxy</b>	0.00	2.50	0.00	0.00	0.56	0.09	0.40	0.00
<b>soft 30 - 100m</b>	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00
<b>soft 100 - 200m</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>soft 200 - 3000m</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>hard 0 - 30m</b>	0.00	0.13	0.00	0.01	0.08	0.00	0.10	0.02
<b>hard 0 - 30m proxy</b>	0.00	0.63	0.00	0.00	0.19	0.00	0.00	0.00
<b>hard 30 - 100m</b>	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
<b>hard 100 - 200m</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>hard 200 - 3000m</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>unknown 0 - 30m</b>	0.02	0.40	0.33	0.03	0.41	0.04	0.32	0.02
<b>unknown 30 - 100m</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>unknown 100 - 200 m</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>unknown 200 - 3000m</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Maximum kelp (linear)</b>	0.00	0.08	0.00	0.00	0.39	0.00	0.00	0.00
<b>Kelp (linear)</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	Doheny SMCA	Doheny Beach SMCA	Agua Hedionda Lagoon SMR	Batiquitos Lagoon SMP	Encinitas SMCA	Cardiff-San Elijo SMCA	San Elijo Lagoon SMP	San Dieguito Lagoon SMP
<b>MPA ID</b>	5828	5827	5810	5829	5815	5830	5831	5832
<b>MPA Designation</b>	SMCA	SMCA	SMR	SMP	SMCA	SMCA	SMP	SMP
<b>Level of Protection</b>	Low	moderate low	Very High	moderate low	moderate low	Low	moderate low	moderate low
<b>SAT Evaluation Bioregion</b>	South Mainland	South Mainland	South Mainland	South Mainland	South Mainland	South Mainland	South Mainland	South Mainland
<b>Area</b>	0.14	0.19	0.04	0.28	0.11	1.21	0.44	0.19
<b>Alongshore Span</b>	1.1	1.2	N/A	N/A	0.9	2.1	N/A	N/A
<b>ESI Shoreline</b>	1.40	0.04	0.00	0.00	0.92	2.18	3.86	1.03
<b>Min Depth</b>	0.00	0.00	N/A	0.00	0.00	0.00	N/A	N/A
<b>Max Depth</b>	10.00	14.00	N/A	10.00	10.00	59.00	N/A	N/A
<b>Beaches</b>	1.12	0.00	0.00	0.00	0.46	1.40	0.00	0.00
<b>Rocky Shores</b>	0.14	0.00	0.00	0.00	0.43	0.77	0.00	0.00
<b>Hardened Shores</b>	0.04	0.13	0.00	0.00	0.04	0.00	0.00	0.27
<b>Coastal Marsh</b>	0.00	0.00	0.00	0.00	0.00	0.01	3.86	0.55
<b>Coastal Marsh (area)</b>	0.00	0.00	0.01	0.02	0.00	0.00	0.23	0.06
<b>Tidal Flats</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
<b>Surfgrass</b>	0.00	0.00	0.00	0.00	0.26	1.00	0.00	0.00
<b>Eelgrass</b>	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
<b>Estuary</b>	0.00	0.00	0.04	0.28	0.00	0.00	0.44	0.19
<b>soft 0 - 30m</b>	0.11	0.15	0.00	0.01	0.08	0.77	0.00	0.00
<b>soft 0 - 30m proxy</b>	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.00
<b>soft 30 - 100m</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>soft 100 - 200m</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>soft 200 - 3000m</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>hard 0 - 30m</b>	0.03	0.04	0.00	0.00	0.03	0.43	0.00	0.00
<b>hard 0 - 30m proxy</b>	0.00	0.00	0.00	0.00	0.00	0.81	0.00	0.00
<b>hard 30 - 100m</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>hard 100 - 200m</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>hard 200 - 3000m</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>unknown 0 - 30m</b>	0.00	0.00	0.04	0.27	0.00	0.01	0.44	0.19
<b>unknown 30 - 100m</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>unknown 100 - 200 m</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>unknown 200 - 3000m</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Maximum kelp (linear)</b>	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00
<b>Kelp (linear)</b>	0.00	0.00	0.00	0.00	0.00	0.74	0.00	0.00

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	San Diego-Scripps SMCA	La Jolla SMCA	Mia J Tegner SMCA	Catalina Marine Science Center SMR	Farnsworth Bank SMCA	Lover's Cove SMCA	Richardson Rock SMR
<b>MPA ID</b>	5833	5817	5834	5809	5835	5836	5795
<b>MPA Designation</b>	SMCA	SMCA	SMCA	SMR	SMCA	SMCA	SMR
<b>Level of Protection</b>	moderate low	High	Low	Very High	Low	Low	very high
<b>SAT Evaluation Bioregion</b>	South Mainland	South Mainland	South Mainland	East Channel Islands	East Channel Islands	East Channel Islands	West Channel Islands
<b>Area</b>	0.11	0.77	0.02	0.06	1.68	0.02	40.69
<b>Alongshore Span</b>	0.5	1.1	0.6	0.8	1.2	0.3	6.3
<b>ESI Shoreline</b>	0.52	2.03	0.69	1.22	0.00	0.08	0.00
<b>Min Depth</b>	0.00	0.00	0.00	0.00	135.00	0.00	95.00
<b>Max Depth</b>	10.00	214.00	10.00	111.00	403.00	10.00	558.00
<b>Beaches</b>	0.40	1.12	0.19	0.08	0.00	0.03	0.00
<b>Rocky Shores</b>	0.12	0.91	0.50	1.10	0.00	0.05	0.00
<b>Hardened Shores</b>	0.00	0.10	0.00	0.05	0.00	0.00	0.00
<b>Coastal Marsh</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Coastal Marsh (area)</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Tidal Flats</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Surfgrass</b>	0.52	0.99	0.70	0.17	0.00	0.00	0.00
<b>Eelgrass</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Estuary</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>soft 0 - 30m</b>	0.10	0.45	0.00	0.03	0.00	0.00	0.00
<b>soft 0 - 30m proxy</b>	0.05	1.04	0.00	0.35	0.00	0.18	0.00
<b>soft 30 - 100m</b>	0.00	0.19	0.00	0.01	1.11	0.01	0.52
<b>soft 100 - 200m</b>	0.00	0.00	0.00	0.00	0.14	0.00	0.09
<b>soft 200 - 3000m</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>hard 0 - 30m</b>	0.00	0.11	0.02	0.02	0.00	0.01	0.00
<b>hard 0 - 30m proxy</b>	0.00	0.07	0.00	0.28	0.00	0.14	0.00
<b>hard 30 - 100m</b>	0.00	0.01	0.00	0.00	0.42	0.00	0.20
<b>hard 100 - 200m</b>	0.00	0.00	0.00	0.00	0.01	0.00	0.04
<b>hard 200 - 3000m</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>unknown 0 - 30m</b>	0.00	0.01	0.00	0.00	0.00	0.00	0.03
<b>unknown 30 - 100m</b>	0.00	0.00	0.00	0.00	0.00	0.00	52.40
<b>unknown 100 - 200 m</b>	0.00	0.00	0.00	0.00	0.00	0.00	12.15
<b>unknown 200 - 3000m</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Maximum kelp (linear)</b>	0.00	0.06	0.00	0.20	0.00	0.32	0.44
<b>Kelp (linear)</b>	0.00	0.00	0.00	0.23	0.00	0.14	0.00

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	Judith Rock SMR	Harris Point SMR	South Point SMR	Carrington Point SMR	Skunk Point SMR	Painted Cave SMCA
<b>MPA ID</b>	5806	5796	5805	5798	5804	5799
<b>MPA Designation</b>	SMR	SMR	SMR	SMR	SMR	SMCA
<b>Level of Protection</b>	very high	very high	very high	very high	very high	moderate low
<b>SAT Evaluation Bioregion</b>	West Channel Islands	West Channel Islands	West Channel Islands	West Channel Islands	West Channel Islands	Mid Channel Islands
<b>Area</b>	4.55	25.35	13.05	12.76	1.39	1.78
<b>Alongshore Span</b>	1.2	5.4	3.5	4.0	2.2	1.9
<b>ESI Shoreline</b>	2.19	9.28	4.79	6.16	2.51	3.05
<b>Min Depth</b>	0.00	0.00	0.00	0.00	0.00	0.00
<b>Max Depth</b>	487.00	557.00	1071.00	211.00	83.00	291.00
<b>Beaches</b>	0.48	1.81	1.45	0.81	1.77	0.00
<b>Rocky Shores</b>	1.71	7.48	3.34	5.35	0.74	3.05
<b>Hardened Shores</b>	0.00	0.00	0.00	0.00	0.00	0.00
<b>Coastal Marsh</b>	0.00	0.00	0.00	0.00	0.00	0.00
<b>Coastal Marsh (area)</b>	0.00	0.00	0.00	0.00	0.00	0.00
<b>Tidal Flats</b>	0.00	0.00	0.00	0.00	0.00	0.00
<b>Surfgrass</b>	0.00	2.32	1.74	4.39	0.11	0.00
<b>Eelgrass</b>	0.00	0.00	0.00	0.00	0.00	0.00
<b>Estuary</b>	0.00	0.00	0.00	0.00	0.00	0.00
<b>soft 0 - 30m</b>	0.21	1.80	1.22	7.15	0.71	0.05
<b>soft 0 - 30m proxy</b>	0.46	5.60	1.70	3.32	2.09	1.96
<b>soft 30 - 100m</b>	1.56	15.93	3.51	3.82	0.00	0.12
<b>soft 100 - 200m</b>	0.00	2.54	5.34	0.00	0.00	0.00
<b>soft 200 - 3000m</b>	0.00	0.00	0.05	0.00	0.00	0.00
<b>hard 0 - 30m</b>	0.48	0.86	0.55	1.35	0.08	0.04
<b>hard 0 - 30m proxy</b>	0.80	1.96	2.05	1.97	0.18	0.01
<b>hard 30 - 100m</b>	0.07	2.40	0.26	0.27	0.00	0.00
<b>hard 100 - 200m</b>	0.00	0.25	0.01	0.00	0.00	0.00
<b>hard 200 - 3000m</b>	0.00	0.00	0.00	0.00	0.00	0.00
<b>unknown 0 - 30m</b>	0.04	1.18	0.06	0.16	0.61	0.28
<b>unknown 30 - 100m</b>	0.32	0.17	0.02	0.00	0.00	2.15
<b>unknown 100 - 200 m</b>	2.02	0.05	0.25	0.00	0.00	0.00
<b>unknown 200 - 3000m</b>	0.00	0.00	1.79	0.00	0.00	0.00
<b>Maximum kelp (linear)</b>	1.22	4.12	3.67	3.68	1.00	0.24
<b>Kelp (linear)</b>	0.96	2.30	3.25	1.24	0.67	0.00

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	<b>Gull Island SMR</b>	<b>Scorpion SMR</b>	<b>Footprint SMR</b>	<b>Anacapa Island SMCA</b>	<b>Anacapa Island SMR</b>	<b>Santa Barbara Island SMR</b>
<b>MPA ID</b>	5797	5800	5803	5801	5802	5807
<b>MPA Designation</b>	SMR	SMR	SMR	SMCA	SMR	SMR
<b>Level of Protection</b>	very high	very high	very high	moderate low	very high	very high
<b>SAT Evaluation Bioregion</b>	Mid Channel Islands	Mid Channel Islands	Mid Channel Islands	Mid Channel Islands	Mid Channel Islands	Mid Channel Islands
<b>Area</b>	19.91	9.62	7.05	7.30	11.54	12.76
<b>Alongshore Span</b>	4.8	2.6	4.7	2.0	3.1	1.0
<b>ESI Shoreline</b>	3.98	4.65	0.00	3.68	7.17	1.17
<b>Min Depth</b>	0.00	0.00	171.00	0.00	0.00	0.00
<b>Max Depth</b>	2205.00	769.00	1656.00	490.00	709.00	1655.00
<b>Beaches</b>	2.10	0.67	0.00	0.19	0.79	0.15
<b>Rocky Shores</b>	1.88	3.98	0.00	3.49	6.38	1.02
<b>Hardened Shores</b>	0.00	0.00	0.00	0.00	0.00	0.00
<b>Coastal Marsh</b>	0.00	0.00	0.00	0.00	0.00	0.00
<b>Coastal Marsh (area)</b>	0.00	0.00	0.00	0.00	0.00	0.00
<b>Tidal Flats</b>	0.00	0.00	0.00	0.00	0.00	0.00
<b>Surfgrass</b>	1.15	0.00	0.00	1.29	3.64	0.92
<b>Eelgrass</b>	0.00	0.00	0.00	0.00	0.00	0.00
<b>Estuary</b>	0.00	0.00	0.00	0.00	0.00	0.00
<b>soft 0 - 30m</b>	1.90	0.37	0.00	0.23	0.87	0.47
<b>soft 0 - 30m proxy</b>	2.77	2.28	0.00	1.74	2.59	0.72
<b>soft 30 - 100m</b>	3.77	4.88	1.16	6.21	7.25	1.69
<b>soft 100 - 200m</b>	3.20	0.18	0.27	0.18	0.78	0.42
<b>soft 200 - 3000m</b>	1.43	0.00	0.00	0.00	0.00	0.02
<b>hard 0 - 30m</b>	0.78	0.17	0.00	0.11	0.27	0.11
<b>hard 0 - 30m proxy</b>	2.36	0.69	0.00	0.54	0.65	0.36
<b>hard 30 - 100m</b>	0.12	0.33	0.11	0.03	0.10	0.10
<b>hard 100 - 200m</b>	0.13	0.01	0.02	0.00	0.00	0.02
<b>hard 200 - 3000m</b>	0.00	0.00	0.00	0.00	0.00	0.00
<b>unknown 0 - 30m</b>	0.09	0.04	0.00	0.02	0.01	0.00
<b>unknown 30 - 100m</b>	0.00	0.01	0.13	0.01	0.00	0.15
<b>unknown 100 - 200 m</b>	0.21	2.05	1.53	0.52	1.48	1.28
<b>unknown 200 - 3000m</b>	8.28	1.58	3.90	0.00	0.77	8.58
<b>Maximum kelp (linear)</b>	3.29	2.00	0.00	0.61	1.46	0.76
<b>Kelp (linear)</b>	1.88	0.05	0.00	0.00	0.65	0.10