

California Marine Life Protection Act Initiative
Analysis of Habitat Representation in MPA Packages
March 29, 2006

Package 0 (Existing Central Coast MPAs 2005)

	<i>How measured</i>	<i>Total Amount in Study Region</i>	<i>Total Percent of Study Region</i>	<i>Amount in Existing SMRs</i>	<i>Percent of Total in Existing SMRs</i>	<i>Amount in Existing SMPs</i>	<i>Percent of Total in Existing SMPs</i>	<i>Amount in Existing SMCAs</i>	<i>Percent of Total in Existing SMCAs</i>	<i>Amount in Existing SCs</i>	<i>Percent of Total in Existing SCs</i>	<i>Amount in all Existing MPAs in Region</i>	<i>Percent of Total in Existing MPAs</i>	<i>Spatial Data Source</i>
Area	Area (mi2)	1150.01		7.45	0.65%	0.00	0.00%	33.50	2.91%	2.20	0.19%	43.15	3.75%	GIS analysis
Number of MPAs				5		0		7		1		13		
HABITAT TYPE														
Sandy or gravel beaches	Linear (mi)	223.66	60.3%	5.27	2.36%	0.00	0.00%	14.42	6.45%	6.06	2.71%	25.75	11.51%	NOAA ESI 2002
Rocky intertidal and cliff	Linear (mi)	209.21	56.4%	16.71	7.99%	0.00	0.00%	12.69	6.07%	2.73	1.30%	32.13	15.36%	NOAA ESI 2002
Coastal marsh	Linear (mi)	36.53	9.8%	9.16	25.08%	0.00	0.00%	0.00	0.00%	0.00	0.00%	9.16	25.08%	NOAA ESI 2002
Tidal flats	Linear (mi)	23.48	6.3%	9.16	39.02%	0.00	0.00%	0.00	0.00%	0.00	0.00%	9.16	39.02%	NOAA ESI 2002
Surfgrass	Linear (mi)	161.09	43.4%	9.74	6.05%	0.00	0.00%	11.82	7.34%	4.59	2.85%	26.15	16.23%	Minerals Management Service / Tenera Inc.
Eelgrass	Area (mi2)	1.07	0.1%	0.03	2.80%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.03	2.80%	Elkhorn Slough Foundation; Morro Bay National Estuary Program
Estuary	Area (mi2)	9.83	0.9%	1.36	13.84%	0.00	0.00%	0.06	0.61%	0.00	0.00%	1.42	14.45%	Combined layer w/ data from NOAA ESI; National Wetlands Inventory; CNDDDB; USGS
Soft 0-30	Area (mi2)	270.34	23.5%	4.52	1.67%	0.00	0.00%	14.82	5.48%	1.88	0.70%	21.22	7.85%	Substrata_Proxy Layer (DFG 2005) based on fine scale (high res); coarse-scale (low res); union of all kelp as proxy for rock; CPFV rockfish fishing effort as proxy for rock
Soft 30-100	Area (mi2)	562.38	48.9%	1.32	0.23%	0.00	0.00%	14.78	2.63%	0.00	0.00%	16.10	2.86%	same as above
Soft 100-200	Area (mi2)	57.83	5.0%	0.00	0.00%	0.00	0.00%	0.02	0.03%	0.00	0.00%	0.02	0.03%	same as above
Soft >200	Area (mi2)	105.52	9.2%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	same as above
Hard 0-30	Area (mi2)	73.60	6.4%	1.04	1.41%	0.00	0.00%	2.12	2.88%	0.33	0.45%	3.49	4.74%	same as above
Hard 30-100	Area (mi2)	40.30	3.5%	0.28	0.69%	0.00	0.00%	0.72	1.79%	0.00	0.00%	1.00	2.48%	same as above
Hard 100-200	Area (mi2)	14.64	1.3%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	same as above
Hard >200	Area (mi2)	16.16	1.4%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	same as above
Average kelp	Area (mi2)	10.83	0.94%	0.36	3.35%	0.00	0.00%	0.68	6.23%	0.00	0.02%	1.04	9.61%	Average of DFG aerial survey years: '89, '99, '02, '03

California Marine Life Protection Act Initiative
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Package 0 (Existing Central Coast MPAs 2005)

	<i>How measured</i>	<i>Total Amount in Study Region</i>	<i>Total Percent of Study Region</i>	<i>Amount in Existing SMRs</i>	<i>Percent of Total in Existing SMRs</i>	<i>Amount in Existing SMPs</i>	<i>Percent of Total in Existing SMPs</i>	<i>Amount in Existing SMCA's</i>	<i>Percent of Total in Existing SMCA's</i>	<i>Amount in Existing SCs</i>	<i>Percent of Total in Existing SCs</i>	<i>Amount in all Existing MPAs in Region</i>	<i>Percent of Total in Existing MPAs</i>	<i>Spatial Data Source</i>
Area	Area (mi ²)	1150.01		7.45	0.65%	0.00	0.00%	33.50	2.91%	2.20	0.19%	43.15	3.75%	GIS analysis
Number of MPAs				5		0		7		1		13		
HABITAT TYPE														
Persistent kelp	Area (mi ²); present in 3 of 4 yrs	3.18	0.3%	0.20	6.29%	0.00	0.00%	0.21	6.61%	0.00	0.00%	0.41	12.90%	Kelp present in 3 of 4 DFG survey years
Canyon 0-30	Area (mi ²)	0.56	0.0%	0.00	0.00%	0.00	0.00%	0.18	31.86%	0.00	0.00%	0.18	31.86%	Coarse-scale substrata data (Greene et al 2004)
Canyon 30-100	Area (mi ²)	4.42	0.4%	0.00	0.00%	0.00	0.00%	0.07	1.58%	0.00	0.00%	0.07	1.58%	Coarse-scale substrata data (Greene et al 2004)
Canyon 100-200	Area (mi ²)	6.06	0.5%	0.00	0.00%	0.00	0.00%	0.01	0.17%	0.00	0.00%	0.01	0.17%	Coarse-scale substrata data (Greene et al 2004)
Canyon >200	Area (mi ²)	42.77	3.7%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	Coarse-scale substrata data (Greene et al 2004)

SC = special closure; SMCA = state marine conservation area; SMP = state marine park; SMR = state marine reserve
The total shoreline length, as measured by NOAA-ESI data, is 371mi.

California Marine Life Protection Act Initiative
Analysis of Habitat Representation in MPA Packages
March 29, 2006

Package 1 (2/9/06 version)

Note that these habitat amounts are relative to proposed MPA designations, not SAT assigned levels of protection

	<i>How measured</i>	<i>Total amount in Study Region</i>	<i>Total percent of Study Region</i>	<i>Amount in Proposed SMRs</i>	<i>Percent of Total in Proposed SMRs</i>	<i>Amount in Proposed SMPs</i>	<i>Percent of Total in Proposed SMPs</i>	<i>Amount in Proposed SMCA's</i>	<i>Percent of Total in Proposed SMCA's</i>	<i>Amount in all Proposed MPAs in Region</i>	<i>Percent of Total in Proposed MPAs</i>	<i>Spatial Data Source</i>
Area	Area (mi2)	1150.01		59.56	5.18%	4.41	0.38%	107.37	9.34%	171.33	14.90%	GIS analysis
Number of MPAs				21		1		7		29		
HABITAT TYPE												
Sandy or gravel beaches	Linear (mi)	223.66	60.3%	32.05	14.33%	3.52	1.57%	12.55	5.61%	48.12	21.51%	NOAA ESI 2002
Rocky intertidal and cliff	Linear (mi)	209.21	56.4%	46.59	22.27%	2.96	1.41%	12.29	5.87%	61.84	29.56%	NOAA ESI 2002
Coastal marsh	Linear (mi)	36.53	9.8%	19.83	54.28%	0.38	1.04%	4.69	12.84%	24.90	68.16%	NOAA ESI 2002
Tidal flats	Linear (mi)	23.48	6.3%	13.76	58.61%	0.15	0.64%	5.46	23.26%	19.37	82.51%	NOAA ESI 2002
Surfgrass	Linear (mi)	161.09	43.4%	40.29	25.01%	3.48	2.16%	8.59	5.33%	52.36	32.50%	Minerals Management Service / Tenera Inc.
Eelgrass	Area (mi2)	1.07	0.1%	0.27	25.16%	0.00	0.00%	0.79	73.62%	1.06	98.78%	Elkhorn Slough Foundation; Morro Bay National Estuary Program
Estuary	Area (mi2)	9.83	0.9%	3.09	31.43%	0.02	0.20%	2.64	26.86%	5.75	58.49%	Combined layer w/ data from NOAA ESI; National Wetlands Inventory; CNDDB; USGS
Soft 0-30	Area (mi2)	270.34	23.5%	28.82	10.66%	3.10	1.15%	6.84	2.53%	38.76	14.34%	Substrata_Proxy Layer (DFG 2005) based on fine scale (high res); coarse-scale (low res); union of all kelp as proxy for rock; CPFV rockfish fishing effort as proxy for rock
Soft 30-100	Area (mi2)	562.38	48.9%	13.30	2.36%	0.18	0.03%	46.98	8.35%	60.46	10.75%	same as above
Soft 100-200	Area (mi2)	57.83	5.0%	0.47	0.81%	0.00	0.00%	10.34	17.88%	10.81	18.69%	same as above
Soft >200	Area (mi2)	105.52	9.2%	6.18	5.86%	0.00	0.00%	25.85	24.50%	32.03	30.36%	same as above
Hard 0-30	Area (mi2)	73.60	6.4%	8.68	11.79%	1.14	1.55%	5.30	7.20%	15.12	20.54%	same as above
Hard 30-100	Area (mi2)	40.30	3.5%	1.29	3.20%	0.00	0.00%	3.79	9.40%	5.08	12.61%	same as above
Hard 100-200	Area (mi2)	14.64	1.3%	0.04	0.27%	0.00	0.00%	1.73	11.82%	1.77	12.09%	same as above
Hard >200	Area (mi2)	16.16	1.4%	0.16	0.99%	0.00	0.00%	5.18	32.06%	5.34	33.05%	same as above
Average kelp	Area (mi2)	10.83	0.94%	1.58	14.62%	0.45	4.13%	0.63	5.84%	2.66	24.59%	Average of DFG aerial survey years: '89, '99, '02, '03

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March 29, 2006

Package 1 (2/9/06 version)

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	<i>How measured</i>	<i>Total amount in Study Region</i>	<i>Total percent of Study Region</i>	<i>Amount in Proposed SMRs</i>	<i>Percent of Total in Proposed SMRs</i>	<i>Amount in Proposed SMPs</i>	<i>Percent of Total in Proposed SMPs</i>	<i>Amount in Proposed SMCA's</i>	<i>Percent of Total in Proposed SMCA's</i>	<i>Amount in all Proposed MPAs in Region</i>	<i>Percent of Total in Proposed MPAs</i>	<i>Spatial Data Source</i>
Area	Area (mi²)	1150.01		59.56	5.18%	4.41	0.38%	107.37	9.34%	171.33	14.90%	GIS analysis
Number of MPAs				21		1		7		29		
HABITAT TYPE												
Persistent kelp	Area (mi²); present in 3 of 4 yrs	3.18	0.3%	0.85	26.74%	0.20	6.29%	0.22	6.92%	1.27	39.96%	Kelp present in 3 of 4 DFG survey years
Canyon 0-30	Area (mi²)	0.56	0.0%	0.05	8.85%	0.00	0.00%	0.15	26.55%	0.20	35.40%	Coarse-scale substrata data (Greene et al 2004)
Canyon 30-100	Area (mi²)	4.42	0.4%	0.15	3.39%	0.00	0.00%	0.04	0.90%	0.19	4.30%	Coarse-scale substrata data (Greene et al 2004)
Canyon 100-200	Area (mi²)	6.06	0.5%	0.27	4.46%	0.00	0.00%	0.19	3.14%	0.46	7.59%	Coarse-scale substrata data (Greene et al 2004)
Canyon >200	Area (mi²)	42.77	3.7%	2.12	4.96%	0.00	0.00%	11.14	26.04%	13.26	31.00%	Coarse-scale substrata data (Greene et al 2004)

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The total shoreline length, as measured by NOAA-ESI data, is 371mi.

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	<i>How measured</i>	<i>Total Amount in Study Region</i>	<i>Total Percent of Study Region</i>	<i>Amount in Proposed SMRs</i>	<i>Percent of Total in Proposed SMRs</i>	<i>Amount in Proposed SMPs</i>	<i>Percent of Total in Proposed SMPs</i>	<i>Amount in Proposed SMCA's</i>	<i>Percent of Total in Proposed SMCA's</i>	<i>Amount in All Proposed MPAs in Region</i>	<i>Percent of Total in Proposed MPAs</i>	<i>Spatial Data Source</i>
Area	Area (mi2)	1150.01		147.68	12.84%	9.84	0.86%	63.93	5.56%	221.45	19.26%	GIS analysis
Number of MPAs				21		1		8		30		
HABITAT TYPE												
Sandy or gravel beaches	Linear (mi)	223.66	60.3%	52.48	23.46%	5.23	2.34%	5.34	2.39%	63.05	28.19%	NOAA ESI 2002
Rocky intertidal and cliff	Linear (mi)	209.21	56.4%	71.01	33.94%	2.98	1.42%	5.61	2.68%	79.6	38.05%	NOAA ESI 2002
Coastal marsh	Linear (mi)	36.53	9.8%	20.88	57.16%	0.47	1.29%	1.48	4.05%	22.83	62.50%	NOAA ESI 2002
Tidal flats	Linear (mi)	23.48	6.3%	15.08	64.24%	0.15	0.64%	4.42	18.83%	19.65	83.70%	NOAA ESI 2002
Surfgrass	Linear (mi)	161.09	43.4%	56.81	35.27%	4.06	2.52%	6.28	3.90%	67.15	41.68%	Minerals Management Service / Tenera Inc.
Eelgrass	Area (mi2)	1.07	0.1%	0.35	32.62%	0	0.00%	0.72	67.10%	1.07	99.71%	Elkhorn Slough Foundation; Morro Bay National Estuary Program
Estuary	Area (mi2)	9.83	0.9%	3.61	36.72%	0.01	0.10%	2.1	21.36%	5.72	58.19%	Combined layer w/ data from NOAA ESI; National Wetlands Inventory; CNDDB; USGS
Soft 0-30	Area (mi2)	270.34	23.5%	36.05	13.34%	4.84	1.79%	3.17	1.17%	44.06	16.30%	Substrata_Proxy Layer (DFG 2005) based on fine scale (high res); coarse-scale (low res); union of all kelp as proxy for rock; CPFV rockfish fishing effort as proxy for rock
Soft 30-100	Area (mi2)	562.38	48.9%	61.63	10.96%	3.74	0.67%	24.61	4.38%	89.98	16.00%	same as above
Soft 100-200	Area (mi2)	57.83	5.0%	5.19	8.97%	0	0.00%	8.31	14.37%	13.5	23.34%	same as above
Soft >200	Area (mi2)	105.52	9.2%	11.82	11.20%	0	0.00%	16.31	15.46%	28.13	26.66%	same as above
Hard 0-30	Area (mi2)	73.60	6.4%	20.62	28.02%	1.26	1.71%	1.13	1.54%	23.01	31.26%	same as above
Hard 30-100	Area (mi2)	40.30	3.5%	7.82	19.41%	0.01	0.02%	3.86	9.58%	11.69	29.01%	same as above
Hard 100-200	Area (mi2)	14.64	1.3%	1.68	11.48%	0	0.00%	3.86	26.37%	5.54	37.85%	same as above
Hard >200	Area (mi2)	16.16	1.4%	1.53	9.47%	0	0.00%	2.08	12.87%	3.61	22.34%	same as above
Average kelp	Area (mi2)	10.83	0.94%	3.31	30.60%	0.54	4.94%	0.52	4.83%	4.37	40.36%	Average of DFG aerial survey years: '89, '99, '02, '03

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March 29, 2006

Package 2R (3/15/06 version)

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Area	Area (mi2)	1150.01		147.68	12.84%	9.84	0.86%	63.93	5.56%	221.45	19.26%	GIS analysis
Number of MPAs				21		1		8		30		
HABITAT TYPE												
Persistent kelp	Area (mi2); present in 3 of 4 yrs	3.18	0.3%	0.94	29.58%	0.31	9.75%	0.24	7.55%	1.49	46.88%	Kelp present in 3 of 4 DFG survey years
Canyon 0-30	Area (mi2)	0.56	0.0%	0.01	1.77%	0	0.00%	0.2	35.40%	0.21	37.17%	Coarse-scale substrata data (Greene et al 2004)
Canyon 30-100	Area (mi2)	4.42	0.4%	0.18	4.07%	0	0.00%	0.39	8.82%	0.57	12.89%	Coarse-scale substrata data (Greene et al 2004)
Canyon 100-200	Area (mi2)	6.06	0.5%	0.23	3.80%	0	0.00%	1.03	17.00%	1.26	20.79%	Coarse-scale substrata data (Greene et al 2004)
Canyon >200	Area (mi2)	42.77	3.7%	4.92	11.50%	0	0.00%	6.04	14.12%	10.96	25.62%	Coarse-scale substrata data (Greene et al 2004)

SC = special closure; SMCA = state marine conservation area; SMP = state marine park; SMR = state marine reserve
The total shoreline length, as measured by NOAA-ESI data, is 371mi.

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Revised May 15, 2006

Package 3R (3/15/06 version)

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Area	Area (mi2)	1150.01		110.00	9.56%	7.54	0.66%	80.84	7.03%	198.38	17.25%	GIS analysis
Number of MPAs				18		3		10		31		
HABITAT TYPE												
Sandy or gravel beaches	Linear (mi)	223.66	60.3%	49.25	22.02%	10.38	4.64%	5.54	2.48%	65.17	29.14%	NOAA ESI 2002
Rocky intertidal and cliff	Linear (mi)	209.21	56.4%	65.27	31.20%	8.14	3.89%	4.93	2.36%	78.34	37.45%	NOAA ESI 2002
Coastal marsh	Linear (mi)	36.53	9.8%	13.77	37.69%	0	0.00%	2.21	6.05%	15.98	43.74%	NOAA ESI 2002
Tidal flats	Linear (mi)	23.48	6.3%	11.38	48.48%	0.15	0.64%	4.7	20.02%	16.23	69.13%	NOAA ESI 2002
Surfgrass	Linear (mi)	161.09	43.4%	50.62	31.42%	7.29	4.53%	5.01	3.11%	62.92	39.06%	Minerals Management Service / Tenera Inc.
Eelgrass	Area (mi2)	1.07	0.1%	0.27	25.16%	0	0.00%	0.8	74.55%	1.07	99.71%	Elkhorn Slough Foundation; Morro Bay National Estuary Program
Estuary	Area (mi2)	9.83	0.9%	3.26	33.16%	0.02	0.20%	2.32	23.60%	5.6	56.97%	Combined layer w/ data from NOAA ESI; National Wetlands Inventory; CNDDB; USGS
Soft 0-30	Area (mi2)	270.34	23.5%	34.7	12.84%	5.38	1.99%	3.58	1.32%	43.66	16.15%	Substrata_Proxy Layer (DFG 2005) based on fine scale (high res); coarse-scale (low res); union of all kelp as proxy for rock; CPFV rockfish fishing effort as proxy for rock
Soft 30-100	Area (mi2)	562.38	48.9%	35.06	6.23%	0.4	0.07%	41.66	7.41%	77.12	13.71%	same as above
Soft 100-200	Area (mi2)	57.83	5.0%	1.11	1.92%	0	0.00%	11.27	19.49%	12.38	21.41%	same as above
Soft >200	Area (mi2)	105.52	9.2%	12.83	12.16%	0	0.00%	7.44	7.05%	20.27	19.21%	same as above
Hard 0-30	Area (mi2)	73.60	6.4%	20.44	27.77%	1.76	2.39%	0.93	1.26%	23.13	31.43%	same as above
Hard 30-100	Area (mi2)	40.30	3.5%	4.72	11.71%	0	0.00%	6.63	16.45%	11.35	28.17%	same as above
Hard 100-200	Area (mi2)	14.64	1.3%	0.07	0.48%	0	0.00%	5.43	37.10%	5.5	37.58%	same as above
Hard >200	Area (mi2)	16.16	1.4%	0.05	0.31%	0	0.00%	3.31	20.49%	3.36	20.80%	same as above
Average kelp	Area (mi2)	10.83	0.94%	3.09	28.54%	0.67	6.14%	0.44	4.04%	4.19	38.73%	Average of DFG aerial survey years: '89, '99, '02, '03

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Note that these habitat amounts are relative to proposed MPA designations, not SAT assigned levels of protection

	<i>How measured</i>	<i>Total Amount in Study Region</i>	<i>Total Percent of Study Region</i>	<i>Amount in Proposed SMRs</i>	<i>Percent of Total in Proposed SMRs</i>	<i>Amount in Proposed SMPs</i>	<i>Percent of Total in Proposed SMPs</i>	<i>Amount in Proposed SMCA's</i>	<i>Percent of Total in Proposed SMCA's</i>	<i>Amount in All Proposed MPAs in Region</i>	<i>Percent of Total in Proposed MPAs</i>	<i>Spatial Data Source</i>
Area	Area (mi2)	1150.01		110.00	9.56%	7.54	0.66%	80.84	7.03%	198.38	17.25%	GIS analysis
Number of MPAs				18		3		10		31		
HABITAT TYPE												
Persistent kelp	Area (mi2); present in 3 of 4 yrs	3.18	0.3%	0.79	24.86%	0.38	11.96%	0.2	6.29%	1.37	43.10%	Kelp present in 3 of 4 DFG survey years
Canyon 0-30	Area (mi2)	0.56	0.0%	0.05	8.85%	0	0.00%	0.15	26.55%	0.2	35.40%	Coarse-scale substrata data (Greene et al 2004)
Canyon 30-100	Area (mi2)	4.42	0.4%	0.17	3.84%	0	0.00%	0.06	1.36%	0.23	5.20%	Coarse-scale substrata data (Greene et al 2004)
Canyon 100-200	Area (mi2)	6.06	0.5%	0.17	2.81%	0	0.00%	0.75	12.38%	0.92	15.18%	Coarse-scale substrata data (Greene et al 2004)
Canyon >200	Area (mi2)	42.77	3.7%	4.33	10.12%	0	0.00%	4.11	9.61%	8.44	19.73%	Coarse-scale substrata data (Greene et al 2004)

SC = special closure; SMCA = state marine conservation area; SMP = state marine park; SMR = state marine reserve
The total shoreline length, as measured by NOAA-ESI data, is 371mi.