



**CALIFORNIA MARINE LIFE PROTECTION ACT INITIATIVE, CENTRAL COAST PROJECT  
DRAFT ANALYSIS OF HABITAT REPRESENTATION IN MPA PACKAGES**

*January 20, 2006*

<b>MPA Package 0 (Existing MPAs)</b>	<b>How measured ?</b>	<b>Total Amount in Study Region</b>	<b>Total Percent of Study Region</b>	<b>Amount in Existing State Marine Reserves</b>	<b>Percent of Total in Existing SMRs</b>	<b>Amount in Existing State Marine Parks</b>	<b>Percent of Total in Existing SMPs</b>	<b>Amount in Existing State Marine Conservation Areas</b>	<b>Percent of Total in Existing SMCAs</b>	<b>Amount in Existing Special Closures</b>	<b>Percent of Total in Existing SCs</b>	<b>Amount in all Existing MPAs in Study Region</b>	<b>Percent of Total in Existing MPAs</b>	<b>Spatial Data Source</b>
Average Kelp	<b>Area (mi2)</b>	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
Persistent Kelp	<b>Area (mi2); present in 3 of 4 years</b>	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	<b>Area (mi2)</b>	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	<b>Area (mi2)</b>	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	<b>Area (mi2)</b>	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	<b>Area (mi2)</b>	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)

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

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DRAFT ANALYSIS OF HABITAT REPRESENTATION IN MPA PACKAGES**

*January 20, 2006*

**PACKAGE NAME: CCRSG Package #1 (12/15/05 version)**

Note these habitat amounts are relative to Proposed MPA Designations not SAT Levels of Protection

CCRSG Package 1	How measured?	Total amount in Study Region	Total percent of Study Region	Amount in Proposed State Marine Reserves	Percent of Total in Proposed SMRs	Amount in Proposed State Marine Parks	Percent of Total in Proposed SMPs	Amount in Proposed State Marine Conservation Area	Percent of Total in Proposed SMCAs	Amount in all Proposed MPAs in region	Percent of Total in Proposed MPAs	Spatial Data Source
Area	Area (mi2)	1150.01		49.42	4.30%	4.48	0.39%	148.05	12.87%	201.94	17.56%	GIS analysis
Number of MPAs				17		2		14		33		
<b>HABITATS</b>												
Sandy or gravel beaches	Linear (mi)	223.66	60.3%	37.80	16.90%	3.68	1.65%	14.17	6.34%	55.65	24.88%	NOAA ESI 2002
Rocky intertidal and cliff	Linear (mi)	209.21	56.4%	53.37	25.51%	3.22	1.54%	5.79	2.77%	62.38	29.82%	NOAA ESI 2002
Coastal marsh	Linear (mi)	36.53	9.8%	20.47	56.04%	0.38	1.04%	5.26	14.40%	26.11	71.48%	NOAA ESI 2002
Tidal flats	Linear (mi)	23.48	6.3%	14.03	59.76%	0.15	0.64%	5.20	22.15%	19.38	82.55%	NOAA ESI 2002
Surfgrass	Linear (mi)	161.09	43.4%	47.48	29.47%	3.88	2.41%	4.48	2.78%	55.84	34.66%	Minerals Management Service / Tenera Inc.
Eelgrass	Area (mi2)	1.07	0.1%	0.03	2.80%	0.00	0.00%	1.04	96.92%	1.07	99.71%	Elkhorn Slough Foundation; Morro Bay National Estuary Program
Estuary	Area (mi2)	9.83	0.9%	3.27	33.27%	0.02	0.20%	3.05	31.03%	6.34	64.50%	Combined layer w/ data from NOAA ESI; National Wetlands Inventory; CNDDDB; USGS
Soft 0-30	Area (mi2)	270.34	23.5%	26.35	9.75%	3.14	1.16%	12.25	4.53%	41.74	15.44%	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%	13.38	2.38%	0.18	0.03%	41.61	7.40%	55.17	9.81%	same as above
Soft 100-200	Area (mi2)	57.83	5.0%	0.00	0.00%	0.00	0.00%	17.93	31.00%	17.93	31.00%	same as above
Soft >200	Area (mi2)	105.52	9.2%	0.00	0.00%	0.00	0.00%	45.12	42.76%	45.12	42.76%	same as above
Hard 0-30	Area (mi2)	73.60	6.4%	7.32	9.95%	1.15	1.56%	5.56	7.55%	14.03	19.06%	same as above
Hard 30-100	Area (mi2)	40.30	3.5%	1.34	3.33%	0.00	0.00%	2.71	6.72%	4.05	10.05%	same as above
Hard 100-200	Area (mi2)	14.64	1.3%	0.00	0.00%	0.00	0.00%	9.96	68.05%	9.96	68.05%	same as above
Hard >200	Area (mi2)	16.16	1.4%	0.00	0.00%	0.00	0.00%	11.68	72.29%	11.68	72.29%	same as above

**CALIFORNIA MARINE LIFE PROTECTION ACT INITIATIVE, CENTRAL COAST PROJECT  
DRAFT ANALYSIS OF HABITAT REPRESENTATION IN MPA PACKAGES**

*January 20, 2006*

<b>CCRS Package 1</b>	<b>How measured?</b>	<b>Total amount in Study Region</b>	<b>Total percent of Study Region</b>	<b>Amount in Proposed State Marine Reserves</b>	<b>Percent of Total in Proposed SMRs</b>	<b>Amount in Proposed State Marine Parks</b>	<b>Percent of Total in Propose d SMPs</b>	<b>Amount in Proposed State Marine Conserva tion Area</b>	<b>Percent of Total in Proposed SMCAs</b>	<b>Amount in all Proposed MPAs in region</b>	<b>Percent of Total in Propose d MPAs</b>	<b>Spatial Data Source</b>
Average Kelp	Area (mi2)	10.83	0.94%	1.50	13.83%	0.47	4.32%	0.67	6.19%	2.64	24.34%	Average of DFG aerial survey years: '89, '99, '02, '03
Persistent Kelp	Area (mi2); present in 3 of 4 years	3.18	0.3%	0.80	25.17%	0.21	6.61%	0.25	7.87%	1.26	39.64%	Kelp present in 3 of 4 DFG survey years
Canyon 0-30	Area (mi2)	0.56	0.0%	0.01	1.77%	0.00	0.00%	0.17	30.09%	0.18	31.86%	Coarse-scale substrata data (Greene et al 2004)
Canyon 30-100	Area (mi2)	4.42	0.4%	0.04	0.90%	0.00	0.00%	0.23	5.20%	0.27	6.11%	Coarse-scale substrata data (Greene et al 2004)
Canyon 100-200	Area (mi2)	6.06	0.5%	0.00	0.00%	0.00	0.00%	1.61	26.57%	1.61	26.57%	Coarse-scale substrata data (Greene et al 2004)
Canyon >200	Area (mi2)	42.77	3.7%	0.00	0.00%	0.00	0.00%	27.00	63.12%	27.00	63.12%	Coarse-scale substrata data (Greene et al 2004)

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

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DRAFT ANALYSIS OF HABITAT REPRESENTATION IN MPA PACKAGES**

January 20, 2006

**PACKAGE NAME: CCRSG Package #2 (12/15/05 version)**

Note these habitat amounts are relative to Proposed MPA Designations not SAT Levels of Protection

CCRSG Package 2	How measured?	Total Amount in Study Region	Total Percent of Study Region	Amount in Proposed State Marine Reserves	Percent of Total in Proposed SMRs	Amount in Proposed State Marine Parks	Percent of Total in Proposed SMPs	Amount in Proposed State Marine Conservation Area	Percent of Total in Proposed SMCAs	Amount in All Proposed MPAs in Study Region	Percent of Total in Proposed MPAs	Spatial Data Source
Area	Area (mi2)	1150.01		162.02	14.09%	17.45	1.52%	95.56	8.31%	275.03	23.92%	GIS analysis
Number of MPAs				22		1		9		32		
<b>HABITATS</b>												
Sandy or gravel beaches	Linear (mi)	223.66	60.3%	57.38	25.65%	6.52	2.92%	7.84	3.51%	71.74	32.07%	NOAA ESI 2002
Rocky intertidal and cliff	Linear (mi)	209.21	56.4%	70.56	33.73%	4.79	2.29%	11.39	5.44%	86.74	41.46%	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%	59.04	36.65%	5.6	3.48%	12.31	7.64%	76.95	47.77%	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%	4.24	43.13%	0.02	0.20%	2.1	21.36%	6.36	64.70%	Combined layer w/ data from NOAA ESI; National Wetlands Inventory; CNDDB; USGS
Soft 0-30	Area (mi2)	270.34	23.5%	32.36	11.97%	6.26	2.32%	3.96	1.46%	42.58	15.75%	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%	73.3	13.03%	9.07	1.61%	41.6	7.40%	123.97	22.04%	same as above
Soft 100-200	Area (mi2)	57.83	5.0%	5.91	10.22%	0	0.00%	10.46	18.09%	16.37	28.31%	same as above
Soft >200	Area (mi2)	105.52	9.2%	11.89	11.27%	0	0.00%	25.07	23.76%	36.96	35.03%	same as above
Hard 0-30	Area (mi2)	73.60	6.4%	23.82	32.37%	1.44	1.96%	1.84	2.50%	27.1	36.82%	same as above
Hard 30-100	Area (mi2)	40.30	3.5%	8.89	22.06%	0.69	1.71%	4.32	10.72%	13.9	34.49%	same as above
Hard 100-200	Area (mi2)	14.64	1.3%	2.31	15.78%	0	0.00%	4.03	27.54%	6.34	43.32%	same as above
Hard >200	Area (mi2)	16.16	1.4%	2.05	12.69%	0	0.00%	3.88	24.02%	5.93	36.70%	same as above

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*January 20, 2006*

<b>CCRS Package 2</b>	<b>How measured?</b>	<b>Total Amount in Study Region</b>	<b>Total Percent of Study Region</b>	<b>Amount in Proposed State Marine Reserves</b>	<b>Percent of Total in Proposed SMRs</b>	<b>Amount in Proposed State Marine Parks</b>	<b>Percent of Total in Proposed SMPs</b>	<b>Amount in Proposed State Marine Conservat ion Area</b>	<b>Percent of Total in Proposed SMCAs</b>	<b>Amount in All Proposed MPAs in Study Region</b>	<b>Percent of Total in Propose d MPAs</b>	<b>Spatial Data Source</b>
Average Kelp	<b>Area (mi2)</b>	10.83	0.94%	3.34	30.83%	0.62	5.75%	0.82	7.60%	4.78	44.18%	Average of DFG aerial survey years: '89, '99, '02, '03
Persistent Kelp	<b>Area (mi2); present in 3 of 4 years</b>	3.18	0.3%	0.73	22.97%	0.37	11.64%	0.45	14.16%	1.55	48.77%	Kelp present in 3 of 4 DFG survey years
Canyon 0-30	<b>Area (mi2)</b>	0.56	0.0%	0.18	31.86%	0	0.00%	0.03	5.31%	0.21	37.17%	Coarse-scale substrata data (Greene et al 2004)
Canyon 30-100	<b>Area (mi2)</b>	4.42	0.4%	0.44	9.95%	0	0.00%	0.8	18.09%	1.24	28.04%	Coarse-scale substrata data (Greene et al 2004)
Canyon 100-200	<b>Area (mi2)</b>	6.06	0.5%	0.47	7.76%	0	0.00%	1.4	23.11%	1.87	30.86%	Coarse-scale substrata data (Greene et al 2004)
Canyon >200	<b>Area (mi2)</b>	42.77	3.7%	6.31	14.75%	0	0.00%	10.46	24.45%	16.77	39.21%	Coarse-scale substrata data (Greene et al 2004)

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

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*January 20, 2006*

**PACKAGE NAME: CCRSG Package #3 (12/15/05 version)**

Note these habitat amounts are relative to Proposed MPA Designations not SAT Levels of Protection

<b>CCRSG Package 3</b>	<b>How measured?</b>	<b>Total Amount in Study Region</b>	<b>Total Percent of Study Region</b>	<b>Amount in Proposed State Marine Reserves</b>	<b>Percent of Total in Proposed SMRs</b>	<b>Amount in Proposed State Marine Parks</b>	<b>Percent of Total in Proposed SMPs</b>	<b>Amount in Proposed State Marine Conservation Areas</b>	<b>Percent of Total in Proposed SMCAs</b>	<b>Amount in All Proposed MPAs in Study Region</b>	<b>Percent of Total in Proposed MPAs</b>	<b>Spatial Data Source</b>
<b>Area</b>	<b>Area (mi2)</b>	1150.01		109.21	9.50%	7.54	0.66%	81.17	7.06%	197.93	17.21%	GIS analysis
<b>Number of MPAs</b>				18		3		10		31		
<b>HABITATS</b>												
Sandy or gravel beaches	<b>Linear (mi)</b>	223.66	60.3%	47.23	21.12%	10.38	4.64%	5.2	2.32%	62.81	28.08%	NOAA ESI 2002
Rocky intertidal and cliff	<b>Linear (mi)</b>	209.21	56.4%	60.72	29.02%	8.14	3.89%	4.77	2.28%	73.63	35.19%	NOAA ESI 2002
Coastal marsh	<b>Linear (mi)</b>	36.53	9.8%	3.61	9.88%	0	0.00%	2.21	6.05%	5.82	15.93%	NOAA ESI 2002
Tidal flats	<b>Linear (mi)</b>	23.48	6.3%	11.45	48.77%	0.15	0.64%	4.7	20.02%	16.3	69.43%	NOAA ESI 2002
Surfgrass	<b>Linear (mi)</b>	161.09	43.4%	53.23	33.04%	7.29	4.53%	4.86	3.02%	65.38	40.59%	Minerals Management Service / Tenera Inc.
Eelgrass	<b>Area (mi2)</b>	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	<b>Area (mi2)</b>	9.83	0.9%	3.36	34.18%	0.02	0.20%	2.38	24.21%	5.76	58.60%	Combined layer w/ data from NOAA ESI; National Wetlands Inventory; CNDDB; USGS
Soft 0-30	<b>Area (mi2)</b>	270.34	23.5%	39.94	14.77%	5.38	1.99%	3.35	1.24%	48.67	18.00%	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	<b>Area (mi2)</b>	562.38	48.9%	30.85	5.49%	0.4	0.07%	38.64	6.87%	69.89	12.43%	same as above
Soft 100-200	<b>Area (mi2)</b>	57.83	5.0%	1.27	2.20%	0	0.00%	10.87	18.80%	12.14	20.99%	same as above
Soft >200	<b>Area (mi2)</b>	105.52	9.2%	14.4	13.65%	0	0.00%	9.98	9.46%	24.38	23.11%	same as above
Hard 0-30	<b>Area (mi2)</b>	73.60	6.4%	17.48	23.75%	1.76	2.39%	0.81	1.10%	20.05	27.24%	same as above
Hard 30-100	<b>Area (mi2)</b>	40.30	3.5%	3.9	9.68%	0	0.00%	6.36	15.78%	10.26	25.46%	same as above
Hard 100-200	<b>Area (mi2)</b>	14.64	1.3%	0.08	0.55%	0	0.00%	6.14	41.95%	6.22	42.50%	same as above

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*January 20, 2006*

<b>CCRS Package 3</b>	<b>How measured?</b>	<b>Total Amount in Study Region</b>	<b>Total Percent of Study Region</b>	<b>Amount in Proposed State Marine Reserves</b>	<b>Percent of Total in Proposed SMRs</b>	<b>Amount in Proposed State Marine Parks</b>	<b>Percent of Total in Proposed SMPs</b>	<b>Amount in Proposed State Marine Conservat ion Areas</b>	<b>Percent of Total in Proposed SMCAs</b>	<b>Amount in All Proposed MPAs in Study Region</b>	<b>Percent of Total in Proposed MPAs</b>	<b>Spatial Data Source</b>
Hard >200	<b>Area (mi2)</b>	16.16	1.4%	0.05	0.31%	0	0.00%	4.48	27.73%	4.53	28.04%	same as above
Average Kelp	<b>Area (mi2)</b>	10.83	0.94%	2.83	26.16%	0.67	6.14%	0.43	3.97%	3.93	36.28%	Average of DFG aerial survey years: '89, '99, '02, '03
Persistent Kelp	<b>Area (mi2); present in 3 of 4 years</b>	3.18	0.3%	0.78	24.54%	0.38	11.96%	0.2	6.29%	1.36	42.79%	Kelp present in 3 of 4 DFG survey years
Canyon 0-30	<b>Area (mi2)</b>	0.56	0.0%	0.17	30.09%	0	0.00%	0.04	7.08%	0.21	37.17%	Coarse-scale substrata data (Greene et al 2004)
Canyon 30- 100	<b>Area (mi2)</b>	4.42	0.4%	0.27	6.11%	0	0.00%	0.22	4.98%	0.49	11.08%	Coarse-scale substrata data (Greene et al 2004)
Canyon 100- 200	<b>Area (mi2)</b>	6.06	0.5%	0.33	5.45%	0	0.00%	0.99	16.34%	1.32	21.79%	Coarse-scale substrata data (Greene et al 2004)
Canyon >200	<b>Area (mi2)</b>	42.77	3.7%	5.23	12.23%	0	0.00%	6.34	14.82%	11.57	27.05%	Coarse-scale substrata data (Greene et al 2004)

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



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*January 20, 2006*

**PACKAGE NAME: External Package AC (12/15/05 version)**

**Note these habitat amounts are relative to Proposed MPA Designations not SAT Levels of Protection**

<b>External Package AC</b>	<b>How measured?</b>	<b>Total Amount in Study Region</b>	<b>Total Percent of Study Region</b>	<b>Amount in Proposed State Marine Reserves</b>	<b>Percent of Total in Proposed SMRs</b>	<b>Amount in Proposed State Marine Parks</b>	<b>Percent of Total in Proposed SMPs</b>	<b>Amount in Proposed State Marine Conservation Areas</b>	<b>Percent of Total in Proposed SMCAs</b>	<b>Amount in All Proposed MPAs in Study Region</b>	<b>Percent of Total in Proposed MPAs</b>	<b>Spatial Data Source</b>
<b>Area</b>	<b>Area (mi2)</b>	1150.01		202.28	17.59%	12.33	1.07%	99.10	8.62%	313.71	27.28%	GIS analysis
<b>Number of MPAs</b>				19		3		8		30		
<b>HABITATS</b>												
Sandy or gravel beaches	<b>Linear (mi)</b>	223.66	60.3%	52.08	23.28%	8.62	3.85%	6.40	2.86%	67.10	30.00%	NOAA ESI 2002
Rocky intertidal and cliff	<b>Linear (mi)</b>	209.21	56.4%	73.54	35.15%	5.90	2.82%	7.15	3.42%	86.59	41.39%	NOAA ESI 2002
Coastal marsh	<b>Linear (mi)</b>	36.53	9.8%	16.26	44.51%	0.38	1.04%	0.00	0.00%	16.64	45.55%	NOAA ESI 2002
Tidal flats	<b>Linear (mi)</b>	23.48	6.3%	10.90	46.43%	0.15	0.64%	0.00	0.00%	11.05	47.07%	NOAA ESI 2002
Surfgrass	<b>Linear (mi)</b>	161.09	43.4%	56.79	35.25%	7.36	4.57%	3.50	2.17%	67.65	41.99%	Minerals Management Service / Tenera Inc.
Eelgrass	<b>Area (mi2)</b>	1.07	0.1%	0.35	32.62%	0.00	0.00%	0.00	0.00%	0.35	32.62%	Elkhorn Slough Foundation; Morro Bay National Estuary Program
Estuary	<b>Area (mi2)</b>	9.83	0.9%	3.42	34.79%	0.08	0.81%	0.00	0.00%	3.50	35.61%	Combined layer w/ data from NOAA ESI; National Wetlands Inventory; CNDDB; USGS
Soft 0-30	<b>Area (mi2)</b>	270.34	23.5%	43.79	16.20%	5.06	1.87%	5.59	2.07%	54.44	20.14%	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	<b>Area (mi2)</b>	562.38	48.9%	95.15	16.92%	4.03	0.72%	44.94	7.99%	144.12	25.63%	same as above
Soft 100-200	<b>Area (mi2)</b>	57.83	5.0%	8.27	14.30%	0.00	0.00%	10.02	17.33%	18.29	31.62%	same as above
Soft >200	<b>Area (mi2)</b>	105.52	9.2%	14.16	13.42%	0.00	0.00%	23.25	22.03%	37.41	35.45%	same as above
Hard 0-30	<b>Area (mi2)</b>	73.60	6.4%	23.30	31.66%	2.61	3.55%	3.16	4.29%	29.07	39.50%	same as above
Hard 30-100	<b>Area (mi2)</b>	40.30	3.5%	9.11	22.61%	0.18	0.45%	4.44	11.02%	13.73	34.07%	same as above

**CALIFORNIA MARINE LIFE PROTECTION ACT INITIATIVE, CENTRAL COAST PROJECT  
DRAFT ANALYSIS OF HABITAT REPRESENTATION IN MPA PACKAGES**

*January 20, 2006*

<b>External Package AC</b>	<b>How measured?</b>	<b>Total Amount in Study Region</b>	<b>Total Percent of Study Region</b>	<b>Amount in Proposed State Marine Reserves</b>	<b>Percent of Total in Proposed SMRs</b>	<b>Amount in Proposed State Marine Parks</b>	<b>Percent of Total in Proposed SMPs</b>	<b>Amount in Proposed State Marine Conservation Areas</b>	<b>Percent of Total in Proposed SMCA's</b>	<b>Amount in All Proposed MPAs in Study Region</b>	<b>Percent of Total in Proposed MPAs</b>	<b>Spatial Data Source</b>
Hard 100-200	<b>Area (mi2)</b>	14.64	1.3%	2.64	18.04%	0.00	0.00%	3.78	25.83%	6.42	43.87%	same as above
Hard >200	<b>Area (mi2)</b>	16.16	1.4%	2.27	14.05%	0.00	0.00%	3.37	20.86%	5.64	34.91%	same as above
Average Kelp	<b>Area (mi2)</b>	10.83	0.94%	3.03	27.94%	0.86	7.97%	0.26	2.36%	4.14	38.26%	Average of DFG aerial survey years: '89, '99, '02, '03
Persistent Kelp	<b>Area (mi2); present in 3 of 4 years</b>	3.18	0.3%	0.85	26.74%	0.41	12.90%	0.05	1.57%	1.31	41.22%	Kelp present in 3 of 4 DFG survey years
Canyon 0-30	<b>Area (mi2)</b>	0.56	0.0%	0.23	40.71%	0.00	0.00%	0.00	0.00%	0.23	40.71%	Coarse-scale substrata data (Greene et al 2004)
Canyon 30-100	<b>Area (mi2)</b>	4.42	0.4%	0.50	11.31%	0.01	0.23%	1.05	23.75%	1.56	35.28%	Coarse-scale substrata data (Greene et al 2004)
Canyon 100-200	<b>Area (mi2)</b>	6.06	0.5%	0.69	11.39%	0.00	0.00%	1.58	26.08%	2.27	37.46%	Coarse-scale substrata data (Greene et al 2004)
Canyon >200	<b>Area (mi2)</b>	42.77	3.7%	4.76	11.13%	0.00	0.00%	10.84	25.34%	15.60	36.47%	Coarse-scale substrata data (Greene et al 2004)

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