Marine Life Protection Act Initiative
North Central Coast Project
Staff Summary of Area and Habitats in Draft Proposal 2 (JD)
February 1, 2008

Overall Summary for Draft Proposal 2 (JD) *(12/12/07 version)*

Type of MPA[1]	# Proposed	Area (mi^2)	% of Study Region
State Marine Reserve (SMR)	11	33.11	4.34%
State Marine Park (SMP)	2	3.48	0.46%
State Marine Conservation Area (SMCA)	9	98.76	12.94%
All MPAs combined	22	135.35	17.74%

[1] *Note: These are proposed marine protected areas (MPA) designations, NOT levels of protection assigned by the MLPA Master Plan Science Advisory Team (SAT).*

Summary of SMCAs by Protection Level for Draft Proposal 2 (JD) *(12/12/07 version)*

SMCA Protection Level	# Proposed	Area (mi^2)	% of Study Region
High Protection	1	9.92	1.30%
Moderate-High Protection	6	83.77	10.98%
Moderate Protection	0	0.00	0.00%
Low Protection	2	5.07	0.66%
All SMCAs combined	9	98.76	12.94%

Individual MPAs in Draft Proposal 2 (JD) *(12/12/07 version)*

MPA Name	Size (mi^2)	Along-shore span (mi)[A]	Depth range (ft)
Point Arena SMR	5.23	3.4	0-175
Point Arena SMCA	7.60	3.4	153-324
Saunders Reef Inshore SMCA	4.21	3.7	0-130
Saunders Reef Offshore SMCA	9.19	3.7	87-276
Black Point SMR	6.45	4.3	0-223
Black Point SMCA	11.71	4.3	198-298
Salt Point SMP	2.82	5	0-153
Gerstle Cove SMR	0.01	0.2	0-10
Russian River SMR	0.35	1	0-10
Russian River SMCA	0.86	1.8	0-57
Bodega Head SMR	5.60	3.9	0-199
Bodega Head SMCA	18.88	6.7	0-267
Estero Americano SMR	0.15	1.2	0-10
Estero de San Antonio SMR	0.09	1.2	0-10
Tomales Bay SMP	0.66	1.6	0-10
Point Reyes SMR	3.18	4.2	0-118
Point Reyes SMCA	28.19	7.6	0-244
Drakes Bay SMR	4.02	7.2	0-10
Fitzgerald SMR	5.00	3.4	0-131
Fitzgerald SMCA	8.20	3.4	87-172
South East Farallon Island SMR	3.03	NA	0-238
South East Farallon Island SMCA	9.92	NA	161-382

[A] *Note: Alongshore span measured as direct line from one end of the MPA to the other.*

Habitat Representation in Draft Proposal 2 (JD) *(12/12/07 version)*

	Area[1] (mi^2) and percentage of mapped habitat in proposed MPA designations in the study region [2]			
Habitat	**SMR**	**SMP**	**SMCA**	**Total MPAs**
Intertidal				
Sandy or gravel beach	7.91 (7%)	1.14 (1%)	5.23 (4%)	14.28 (12%)
Rocky intertidal & cliff	32.4 (19%)	7.60 (5%)	6.33 (4%)	46.33 (28%)
Coastal marsh	21.7 (42%)	6.10 (12%)	0.00 (0%)	27.80 (54%)
Tidal flats	5.71 (31%)	0.15 (1%)	0.00 (0%)	5.86 (32%)
Seagrass beds: Surfgrass	13.13 (19%)	0.00 (0%)	0.69 (1%)	13.81 (20%)
Seagrass beds: Eelgrass	3.78 (62%)	0.00 (0%)	0.00 (0%)	3.78 (62%)
Estuary	4.42 (23%)	0.64 (3%)	0.00 (0%)	5.06 (26%)
Soft bottom				
0-30 meters	7.23 (5%)	0.70 (0%)	1.17 (1%)	9.10 (6%)
30-100 meters	10.56 (3%)	0.51 (0%)	74.50 (18%)	85.56 (21%)
100-200 meters[3]	NA	NA	NA	NA
>200 meters[3]	NA	NA	NA	NA
Hard bottom				
0-30 meters	4.40 (13%)	1.05 (3%)	2.74 (8%)	8.19 (24%)
30-100 meters	5.17 (10%)	0.67 (1%)	9.12 (17%)	14.97 (29%)
100-200 meters[3]	NA	NA	NA	NA
>200 meters[3]	NA	NA	NA	NA
Kelp forest				
Kelp 1989	0.33 (10%)	0.32 (10%)	0.67 (21%)	1.31 (41%)
Kelp 1999	0.17 (9%)	0.11 (6%)	0.29 (16%)	0.56 (32%)
Kelp 2002	0.13 (7%)	0.42 (23%)	0.00 (0%)	0.55 (30%)
Kelp 2003	0.10 (8%)	0.10 (8%)	0.20 (16%)	0.39 (33%)
Kelp 2004	0.10 (7%)	0.17 (12%)	0.17 (12%)	0.44 (31%)
Kelp 2005	0.09 (11%)	0.03 (4%)	0.23 (26%)	0.36 (40%)
Average kelp	0.15 (9%)	0.19 (11%)	0.26 (15%)	0.60 (35%)

[1] Note: Area expressed as mi^2 except for Intertidal habitats and Surfgrass bed, which are expressed in mi.
[2] Note: These are proposed MPA designations, NOT levels of protection assigned by the SAT
[3] Note: The "NA" notation is due to the fact that these habitats are not found or are only found in small areas in this study region.

California Marine Life Protection Act Initiative
Habitat Calculations for Draft Proposal 2 (JD), December 12, 2007 version
Revised December 21, 2007

	How Measured	Point Arena SMR	Point Arena SMCA	Saunders Reef Inshore SMCA	Saunders Reef Offshore SMCA	Black Point SMR	Black Point SMCA	Salt Point SMP	Gerstle Cove SMR	Russian River SMR	Russian River SMCA	Bodega Head SMR	Bodega Head SMCA
GIS Identification Number		JD1	JD2	JD3	JD4	JD5	JD6	JD8	JD7	JD9	JD10	JD11	JD12
MPA Classification		SMR	SMCA	SMCA	SMCA	SMR	SMCA	SMP	SMR	SMR	SMCA	SMR	SMCA
SAT Level of Protection		10	6	2	6	10	6	4	10	10	2	10	6
SAT Evaluation Subregion		North	North	North	North	North	North	North	North	North	North	North	North
SAT Cluster ID		JD_C1	JD_C1	JD_C2	JD_C2	JD_C3	JD_C3	JD_C4	JD_C4	JD_C5	JD_C5	JD_C6	JD_C6
Area	Area (mi2)	5.23	7.60	4.21	9.19	6.45	11.71	2.82	0.01	0.35	0.86	5.60	18.88
Alongshore Span	Linear (mi)	3.4	3.4	3.7	3.7	4.3	4.3	5	0.2	1	1.8	3.9	6.7
ESI Shoreline Length	Linear (mi)	2.12	0.00	5.72	0.00	7.90	0.00	8.42	0.42	3.92	1.86	3.00	0.61
Minimum Depth	Feet	0	153	0	87	0	198	0	0	0	0	0	0
Maximum Depth	Feet	175	324	130	276	223	298	153	10	10	57	199	267
Sandy or gravel beaches	Linear (mi)	0.05	0.00	0.54	0.00	1.14	0.00	0.82	0.04	1.88	1.22	0.33	0.19
Rocky intertidal and cliff	Linear (mi)	2.07	0.00	5.19	0.00	6.77	0.00	7.60	0.38	0.00	0.53	2.67	0.47
Coastal marsh	Linear (mi)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.27	0.00	0.00	0.00
Tidal flats	Linear (mi)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Surfgrass	Linear (mi)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.51	0.67
Eelgrass	Area (mi2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Estuary	Area (mi2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00
soft 0 - 30m	Area (mi2)	0.03	0.00	0.03	0.00	0.29	0.00	0.05	0.00	0.35	0.00	1.08	0.08
soft 30 - 100m	Area (mi2)	2.09	7.25	0.01	7.35	4.36	11.65	0.51	0.00	0.00	0.00	0.40	11.80
soft 100 - 200m	Area (mi2)	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
soft 200 - 3000m	Area (mi2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hard 0 - 30m	Area (mi2)	0.31	0.00	1.58	0.00	0.59	0.00	1.05	0.00	0.00	0.02	1.83	0.98
hard 30 - 100m	Area (mi2)	1.58	0.27	0.52	1.79	0.33	0.06	0.67	0.00	0.00	0.00	1.88	5.88
hard 100 - 200m	Area (mi2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hard 200 - 3000m	Area (mi2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
unknown 0 - 30m	Area (mi2)	1.20	0.00	2.06	0.00	0.87	0.00	0.48	0.01	0.00	0.84	0.42	0.06
unknown 30 - 100m	Area (mi2)	0.02	0.00	0.00	0.05	0.01	0.00	0.04	0.00	0.00	0.00	0.00	0.09
unknown 100 - 200m	Area (mi2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
unknown 200 - 3000m	Area (mi2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hard substrate at 20m isobath	Linear (mi)	2.50	0.00	3.55	0.00	2.19	0.00	4.77	0.00	0.00	0.00	2.91	1.60
soft substrate at 20m isobath	Linear (mi)	0.39	0.00	0.23	0.00	2.51	0.00	0.61	0.00	0.00	0.00	1.14	0.01
Kelp 1989	Area (mi2)	0.10	0.00	0.67	0.00	0.22	0.00	0.32	0.00	0.00	0.00	0.00	0.00
Kelp 1999	Area (mi2)	0.11	0.00	0.29	0.00	0.06	0.00	0.11	0.00	0.00	0.00	0.00	0.00
Kelp 2002	Area (mi2)	0.00	0.00	0.00	0.00	0.12	0.00	0.42	0.00	0.00	0.00	0.00	0.00
Kelp 2003	Area (mi2)	0.00	0.00	0.20	0.00	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00
Kelp 2004	Area (mi2)	0.03	0.00	0.17	0.00	0.06	0.00	0.17	0.00	0.00	0.00	0.00	0.00
Kelp 2005	Area (mi2)	0.05	0.00	0.23	0.00	0.05	0.00	0.03	0.00	0.00	0.00	0.00	0.00
Average Kelp	Area (mi2)	0.05	0.00	0.26	0.00	0.10	0.00	0.19	0.00	0.00	0.00	0.00	0.00

California Marine Life Protection Act Initiative
Habitat Calculations for Draft Proposal 2 (JD), December 12, 2007 version
Revised December 21, 2007

	Estero Americano SMR	Estero de San Antonio SMR	Tomales Bay SMP	Point Reyes SMR	Point Reyes SMCA	Drakes Bay SMR	Fitzgerald SMR	Fitzgerald SMCA	South East Farallon Island SMR	South East Farallon Island SMCA
GIS Identification Number	JD13	JD14	JD15	JD16	JD17	JD18	JD19	JD20	JD21	JD22
MPA Classification	SMR	SMR	SMP	SMR	SMCA	SMR	SMR	SMCA	SMR	SMCA
SAT Level of Protection	10	10	2	10	6	10	10	6	10	8
SAT Evaluation Subregion	North	North	North	South	South	South	South	South	Farallones	Farallones
SAT Cluster ID	JD_C7	JD_C8	JD_C9	JD_C10	JD_C10	JD_C11	JD_C12	JD_C12	JD_C13	JD_C13
Area	0.15	0.09	0.66	3.18	28.19	4.02	5.00	8.20	3.03	9.92
Alongshore Span	1.2	1.2	1.6	4.2	7.6	7.2	3.4	3.4	NA	NA
ESI Shoreline Length	1.27	1.94	6.57	7.19	3.44	31.82	4.59	0.00	3.29	0.00
Minimum Depth	0	0	0	0	0	0	0	87	0	161
Maximum Depth	10	10	10	118	244	10	131	172	238	382
Sandy or gravel beaches	0.41	0.57	0.32	1.85	3.29	0.84	0.76	0.00	0.03	0.00
Rocky intertidal and cliff	0.44	0.46	0.00	5.34	0.14	7.18	3.84	0.00	3.26	0.00
Coastal marsh	0.42	0.00	6.10	0.00	0.00	19.02	0.00	0.00	0.00	0.00
Tidal flats	0.00	0.92	0.15	0.00	0.00	4.79	0.00	0.00	0.00	0.00
Surfgrass	0.00	0.00	0.00	6.78	0.01	0.00	3.84	0.00	0.00	0.00
Eelgrass	0.10	0.00	0.00	0.00	0.00	3.67	0.00	0.00	0.00	0.00
Estuary	0.14	0.09	0.64	0.00	0.00	3.85	0.00	0.00	0.00	0.00
soft 0 - 30m	0.15	0.09	0.65	0.79	0.99	3.97	0.43	0.06	0.07	0.00
soft 30 - 100m	0.00	0.00	0.00	0.97	22.42	0.00	0.96	7.77	1.78	6.25
soft 100 - 200m	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.67
soft 200 - 3000m	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hard 0 - 30m	0.00	0.00	0.00	0.17	0.10	0.00	1.10	0.06	0.40	0.00
hard 30 - 100m	0.00	0.00	0.00	0.09	0.31	0.00	0.52	0.30	0.78	0.00
hard 100 - 200m	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hard 200 - 3000m	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
unknown 0 - 30m	0.00	0.00	0.01	1.16	4.35	0.03	1.99	0.00	0.00	0.00
unknown 30 - 100m	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.01	0.00	0.00
unknown 100 - 200m	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
unknown 200 - 3000m	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hard substrate at 20m isobath	0.00	0.00	0.00	1.54	0.41	0.00	3.06	0.00	1.56	0.00
soft substrate at 20m isobath	0.00	0.00	0.00	1.49	2.00	0.00	1.05	0.00	0.07	0.00
Kelp 1989	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kelp 1999	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kelp 2002	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kelp 2003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kelp 2004	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Kelp 2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Kelp	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

California MLPA North Central Coast Project
Draft Proposal 2 (JD) - *December 12, 2007 version*

Name of Draft MPA Proposal: **Draft Proposal 2 (JD) (December 12, 2007 version)**

Number and Type of MPAs in revised MPA proposal: __11__ SMR___2__ SMP___9__ SMCA___22___ Total # MPAs

Narrative rationale: This draft proposal was developed in a collaborotive process by a cross-interest workgroup of the NCC Regional Stakeholder Group at the December 11-12, 2007 NCCRSG meeting. This draft proposal aims to meet and address the guidance received from the MLPA Blue Ribbon Task Force, Master Plan Science Advisory Team, and California Department of Fish and Game. This draft proposal builds on initial options identified by the regional stakeholder work groups and draft external proposals and incorporates, to the extent possible, the many comments received from stakeholders and the general public.

Draft Proposal 2 (JD) (December 12, 2007 version)

MPA Name	Type	GIS ID #	General MPA Boundaries	Allowed or Disallowed Uses	SAT Assigned Level of Protection	Regioinal Goals/ Objectives/ Design Criteria this MPA Contributes Toward [Format: "G1O3" for Goal 1, Objective 3)	MPA Specific Objectives [Short narrative on the main intent of this MPA]	Comments, Questions or Important Information
Point Arena SMR	SMR	JD1	Eastern: 123°44.4'W or mean high tide, Western: 123°46'W, Northern: 38°59.3'N, Southern: 38°56.3'N	No take	Very High	G1O1, G1O2, G1O3, G1O4, G1O5, G2O2, G2O3, G2O4, G3O1, G3O3, G4O2, G5O2, G5O3, G6O1, G6O2 Considers all design criteria	1.) Protect an area of high benthic species diversity and maintain benthic species diversity and abundance by monitoring appropriate indicator species. 2.) Protect an area that contains a persistent upwelling plume well suited to provide larval dispersal. 3). Incease abundance and diversity of benthic species to unfished levels. 4). Protect area of marine natural heritage.	Availability of local BLM rangers would enhance enforcement ability.
Point Arena SMCA	SMCA	JD2	Eastern 123° 46'W, Western: 3nm state waters, Northern: 38° 59.3N, Southern: 3°8 56.3N	Allowed Uses: Salmon trolling; anchovy, sardine, herring; dungeness crab; (All applies to commercial and recreational)	Mod-High	G1O1, G1O2, G1O3, G1O4, G1O5, G2O2, G2O3, G2O4, G3O1, G3O3, G4O2, G5O2, G5O3, G6O1, G6O2 Considers all design criteria	1.) Protect an area of high benthic species diversity and maintain benthic species diversity and abundance by monitoring appropriate indicator species. 2.) Protect an area that contains a persistent upwelling plume well suited to provide larval dispersal. 3). Incease abundance and diversity of benthic species to unfished levels. 4). Protect area of marine natural heritage.	Salmon fishing in deeper water would continue.
Saunders Reef Inshore SMCA	SMCA	JD3	Eastern: mean high tide, Western: line connecting 38° 52.5'N / 123° 42'W and 38° 50'N / 123 39°W, Northern: 38° 52.5', Southern: 38° 50'	Allowed Uses: Salmon trolling; anchovy, sardine, herring; dungeness crab; urchin, abalone, shore-based hook and line angling (All applies to commercial and recreational)	Low-Mod	G1O1, G1O2, G1O3, G1O4, G1O5, G2O2, G2O3, G2O4, G3O1, G3O3, G4O2, G5O2, G5O3, G6O1, G6O2 Considers all design criteria	1.) Protect an area of high benthic species diversity and maintain benthic species diversity and abundance by monitoring appropriate indicator species. 2.) Protect an area that contains a persistent upwelling plume well suited to provide larval dispersal.	Allows continued urchin fishery and abalone diving .

Saunders Reef Offshore SMCA	SMCA	JD4	Eastern: line connecting 38°52.5'N / 123°42'W and 38°50'N / 123°39', Western: 3nm state waters, Northern: 38°52.5', Southern: 38°50'	Allowed Uses: Salmon trolling; anchovy, sardine, herring; dungeness crab; (All applies to commercial and recreational)	Mod-High		1.) Protect an area of high benthic species diversity and maintain benthic species diversity and abundance by monitoring appropriate indicator species. 2.) Protect an area that contains a persistent upwelling plume well suited to provide larval dispersal.	Salmon fishing in deeper water would continue.
Black Point SMR	SMR	JD5	Eastern: mean high tide, Western: line connecting 38° 43' N /123° 30' W and 38° 40' N / 123° 27', Northern: 38° 43' N, Southern: 38° 40' N	No take	Very High	G1O1, G1O2, G1O3, G1O4, G1O5, G2O2, G2O3, G2O4, G3O1, G3O3, G4O2, G5O2, G5O3, G6O1, G6O2 Considers all design criteria	1.) Protect an area of high benthic species diversity and maintain benthic species diversity and abundance by monitoring appropriate indicator species. 2.) Protect an area that contains a persistent upwelling plume well suited to provide larval dispersal. 3.) Establish a MPA complex that meets the preferred size. 3). Incease abundance and diversity of benthic species to unfished levels.	Establishes a large MPA that protects a complex rocky habitat and a variety of species most likely to benefit.
Black Point SMCA	SMCA	JD6	Eastern: line connecting 38° 43' N / 123° 30'W and 38° 40' N /123° 27' W, Western: 3nm state waters, Northern: 38° 43' N, Southern: 38° 40' N	Allowed Uses: Salmon trolling; anchovy, sardine, herring; dungeness crab (All applies to commercial and recreational)	Mod-High	G1O1, G1O2, G1O3, G1O4, G1O5, G2O2, G2O3, G2O4, G3O1, G3O3, G4O2, G5O2, G5O3, G6O1, G6O2 Considers all design criteria	1.) Protect an area of high benthic species diversity and maintain benthic species diversity and abundance by monitoring appropriate indicator species. 2.) Protect an area that contains a persistent upwelling plume well suited to provide larval dispersal. 3.) Establish a MPA complex that meets the preferred size. 3). Incease abundance and diversity of benthic species to unfished levels.	Salmon fishing in deeper water would continue.
Salt Point SMP	SMP	JD8	Eastern: mean high tide, Western: line connecting 38° 37' N /123° 23.2' W and 38° 33.5' N /123° 20' W, Northern: 38° 37' N, Southern: 38° 33.5' N	Allowed Uses: Recreational abalone, finfish.	Moderate	G3O1, G3O2, G3O4, G5O1, G5O2, G5O3 Considers all design criteria	1.) Establish a MPA near a terrestrial state park with a nearby PISCO monitoring site. 2.) Provide for traditional recreational consumptive and non-consumptive uses while offering some protection due to the prohibition of commercial fishing. 3.) Protect an area of high benthic species diveristy and maintain benthic species diversity and abundance by monitoring appropriate indicator species.	Enlarges size of existing SMP.
Gerstle Cove SMR	SMR	JD7	Existing boundaries of currently designated MPA boundary	No take	Very High		Achieve and maintain an area of abundance and natural diversity of abalone and other low-mobility species.	No change to current size.
Russian River SMR	SMR	JD9	All estuarine waters to mean high tide (or extent of DFG study area boundary) eastward of the mouth of the Russian River or at approximately 38° 27.1' N / 123° 7.8' W (see shapefile)	No take	Very High		1.) Protect nursery ground habitat. 2.) Protect communities associated with areas of diverse estuarine habitats including open channels, mud flats, eel grass beds, etc.	

Russian River SMCA	SMCA	JD10	Eastern: mouth of Russian River (same boundary as Russian River SMR) and mean high tide, Western: 123° 8.6' W, Northern: mean high tide, Southern: 38 26.4	Allowed Uses: All recreational and commercial take allowed except salmon	Low-Mod	G1O5, G3O1, G3O2, G3O3, G4O1, G4O2, G5O2 Considers all design criteria	Protect Russian River salmonid Evolutionary Significant Unit's at localized estuarine collection point.	
Bodega Head SMR	SMR	JD11	Eastern: 123° 4.6'W and mean high tide, Western: 123° 6'W, Northern: 38° 21.4' N, Southern: 38° 18' N	No take	Very High	G1O1, G1O2, G1O3, G1O4, G1O5, G2O2, G2O3, G2O4, G3O1, G3O3, G4O2, G5O2, G5O3, G6O1, G6O2 Considers all design criteria	1.) Protect an area of high benthic species diversity and maintain benthic species diversity and abundance by monitoring appropriate indicator species. 2.) Protect an area that contains a persistent upwelling plume well suited to provide larval dispersal. 3.) Establish a MPA complex that meets the preferred size. 4). Designation of a no-take SMR adjacent to a marine science and educational institution (U.C. Davis Bodega Marine Lab).	Close to Bodega Marine Institute for monitoring and enforcement.
Bodega Head SMCA	SMCA	JD12	Eastern: (north of 38° 18' N) 123° 6' mean high tide and 123° 4', Western: 3nm state waters, Northern: 38° 21.4', Southern: 38° 15.5'	Allowed Uses: Salmon trolling; anchovy, sardine, herring; dungeness crab (All applies to commercial and recreational)	Mod-High	G1O1, G1O2, G1O3, G1O4, G1O5, G2O2, G2O3, G2O4, G3O1, G3O3, G4O2, G5O2, G5O3, G6O1, G6O2 Considers all design criteria	1.) Protect an area of high benthic species diversity and maintain benthic species diversity and abundance by monitoring appropriate indicator species. 2.) Protect an area that contains a persistent upwelling plume well suited to provide larval dispersal. 3.) Establish a MPA complex that meets the preferred size. 4). Protect benthic species while continuing to allow fishing forother recreationally and commercially important species.5). Include an area of lesser levels of protection in an area adjacent to a marine science and educational institution (U.C. Davis Bodega Marine Lab) and an SMR.	See shapefile for further description of boundaries.
Estero Americano SMR	SMR	JD13	Across mouth of estero	No take SMR	Very High		1.) Protect nursery ground habitat. 2.) Protect communities associated with areas of diverse estuarine habitats including open channels, mud flats, eel grass beds, etc.	
Estero San Antonio SMR	SMR	JD14	Across mouth of estero	No take	Very High		1.) Protect nursery ground habitat. 2.) Protect communities associated with areas of diverse estuarine habitats including open channels, mud flats, eel grass beds, etc.	

Tomales Bay SMP	SMP	JD15	Existing boundaries of currently designated MPA	Take of all living marine resources is prohibited except the recreational hook and line take of species other than marine aquatic plants. Only lightweight, hand-carried boats may be launched or operated within the Park.	Low-Mod		1.) Protect nursery ground habitat. 2.) Protect communities associated with areas of diverse estuarine habitats including open channels, mud flats, eel grass beds, etc.	Existing regulations remain unchanged.
Point Reyes SMR	SMR	JD16	Eastern: 122° 57.4' W, Western: 123° 2' W, Northern: 38° 00' N and mean high tide, Southern: 37° 59.1' N	No take	Very High	G1O1, G1O2, G1O3, G1O4, G1O5, G2O2, G2O3, G2O4, G3O1, G3O2, G3O3, G4O2, G5O2, G5O3, G6O1, G6O2 Considers all design criteria	1.) Protect an area of high benthic species diversity and maintain benthic species diversity and abundance by monitoring appropriate indicator species. 2.) Protect an area that contains a persistent upwelling plume well suited to provide larval dispersal. 3.) Establish a MPA complex that meets the preferred size. 4). Protect area of marine natural heritage.	Protects a major headland area and will protect forage breeding and nesting areas for mammals and birds.
Point Reyes SMCA	SMCA	JD17	Eastern: 3nm state waters, Western: 122° 56.5' W, Northern: 37° 59.1' N and boundary of SMR (JD16), Southern: 3nm state waters	Allowed Uses: Salmon trolling; anchovy, sardine, herring; dungeness crab; squid (All applies to commercial and recreational)	Mod-High	G1O1, G1O2, G1O3, G1O4, G1O5, G2O2, G2O3, G2O4, G3O1, G3O2, G3O3, G4O2, G5O2, G5O3, G6O1, G6O2 Considers all design criteria	1.) Protect an area of high benthic species diversity and maintain benthic species diversity and abundance by monitoring appropriate indicator species. 2.) Protect an area that contains a persistent upwelling plume well suited to provide larval dispersal. 3.) Establish a MPA complex that meets the preferred size. 4). Protect area of marine natural heritage. 5). Protect benthic species while continuing to allow fishing for other recreationally and commercially important species.	Reduces social-economic impact by allowing continued Salmon and crab fisheries.
Drakes Estero SMR	SMR	JD18	Entire Drakes Estero and Estero de Limantour area	No take. (Oyster farming can continue until the lease ends in 2012)	Very High	G1O1, G1O3, G1O4, G1O5, G2O2, G2O3, G3O1, G3O2, G3O3, G4O1, G5O2Considers all design criteria	1.) Protect nursery ground habitat. 2.) Protect communities associated with areas of diverse estuarine habitats including open channels, mud flats, eel grass beds, etc.	
Fitzgerald SMR	SMR	JD19	Eastern: mean high tide, Western: 122° 32.3' W, Northern: 37° 32.7' N, Southern: 37° 29.7' N	No take	Very High	G1O1, G1O2, G1O3, G1O4, G1O5, G2O2, G2O3, G2O4, G3O1, G3O3, G4O2, G5O2, G5O3, G6O1, G6O2 Considers all design criteria	1.) Protect an area of high benthic species diveristy and maintain benthic species diversityand abundance by monitoring appropriate indicator species.	

Fitzgerald SMCA	SMCA	JD20	Eastern: 122° 32.3' W, Western: 3nm state waters, Northern: 37° 32.7' N, Southern: 37° 29.7' N	Allowed Uses: Salmon trolling; anchovy, sardine, herring; dungeness crab (All applies to commercial and recreational)	Mod-High	G1O1, G1O2, G1O3, G1O4, G1O5, G2O2, G2O3, G2O4, G3O1, G3O3, G4O2, G5O2, G5O3, G6O1, G6O2 Considers all design criteria	1.) Protect an area of high benthic species diversity and maintain benthic species diversity and abundance by monitoring appropriate indicator species.	Reduces social-economic impact by allowing continued salmon and crab fisheries.
South East Farallon Island SMR	SMR	JD21	Eastern: 123° 00' W, Western: 123° 2' W, Northern: 37° 42' N, Southern: 37° 40.5' N	No take	Very High	G1O1, G1O2, G1O3, G1O4, G1O5, G2O2, G2O3, G2O4, G3O1, G3O2, G3O3, G4O1, G4O2, G5O2, G5O3, G6O1, G6O2 Considers all design criteria	1.) Protect an area of high benthic species diversity and maintain benthic species diversity and abundance by monitoring appropriate indicator species. 2.) Protect an area that contains a persistent upwelling plume well suited to functioning as a larval sink. 3.) Protect natural heritage, including protection of representative and unique marine life habitats.	
South East Farallon Island SMCA	SMCA	JD22	Eastern: 123° and 123° 2', Western: 3nm state waters, Northern: 37° 42' and 37° 40.5', Southern: 3nm state waters	Allowed Uses: Salmon trolling (applies to commercial and recreational)	High	G1O1, G1O2, G1O3, G1O4, G1O5, G2O2, G2O3, G2O4, G3O1, G3O2, G3O3, G4O1, G4O2, G5O2, G5O3, G6O1, G6O2 Considers all design criteria	1.) Protect an area of high benthic species diversity and maintain benthic species diversity and abundance by monitoring appropriate indicator species. 2.) Protect an area that contains a persistent upwelling plume well suited to provide larval dispersal. 3.) Include shallow hard and soft bottom within a state marine conservation area, adjacent to the shelf. 4). Protect important forage area for nearby breeding colonies of listed marine birds by prohibiting the harvest of pelagic finfish other than salmon. (G2O1)	

Consideration of Marine Bird and Mammal Protectionand Mammal Protection**:** Within this MPA array, certain areas may warrant increased protection of marine birds and/or marine mammals though the use of "no disturbance" zones or special closures. If special closures are proposed, please include all of the information requested below (with the exception of the GIS ID). Note that the MLPA staff suggests sparing use of this designation.

Area	GIS ID	Bound-aries	Focus Species	Seasonality (Year round or what season)	Comments, Questions or Important Information

California MLPA North Central Coast Project
Draft Proposal 2 (JD) - ***December 12, 2007 version***

Consideration of Existing State MPAs in Draft Proposal 2 (JD) (December 12, 2007 version). Please indicate how existing North Central Coast MPAs are considered within the draft proposal.

Existing MPA	Included Without Changes (retained)	Included with Boundary or Regulation Change	Not Included (eliminated)
Manchester and Arena Rock SMCA		A portion may be included in the Point Arena SMR/SMCA complex.	
Del Mar Landing SMR			Not included
Salt Point SMCA		Included in Salt Point Concept.	
Gerstle Cove SMR		Included as SMR	
Fort Ross SMCA			Not included
Tomales Bay SMP	No change		
Point Reyes SMCA		Included in Point Reyes concept.	
Estero de Limantour SMCA		Included in Drakes Estero concept.	
Duxbury Reef SMCA			Not included
Sonoma Coast SMCA		Included in Bodega Head concept.	
Bodega SMR		Included in Bodega Head concept.	
Fitzgerald SMP		Iincluded in Fitzgerald concept.	
Farallon Islands SMCA		Included in Farallon Islands concept.	