

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

Overall Summary for Draft External Proposal A (XA) (1/2/08 version)

Type of MPA ¹	# Proposed	Area (mi ²)	% of Study Region
State Marine Reserve (SMR)	12	34.11	4.47%
State Marine Park (SMP)	0	0.00	0.00%
State Marine Conservation Area (SMCA)	7	84.75	11.11%
All MPAs combined	20	120.60	15.81%

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

Summary of SMCAs by Protection Level for Draft External Proposal A (XA) (1/2/08 version)

SMCA Protection Level	# Proposed	Area (mi ²)	% of Study Region
High Protection	1	7.60	1.00%
Moderate-High Protection	5	74.04	9.70%
Moderate Protection	1	3.11	0.41%
Low Protection	0	0.00	0.00%
All SMCAs combined	7	84.75	11.11%

Individual MPAs in Draft External Proposal A (XA) (1/2/08 version)

MPA Name	Size (mi ²)	Along-shore span (mi) ^A	Depth range (ft)
Arena Rock SMR	5.23	3.4	0-175
Arena Rock SMCA	7.60	3.4	153-324
Black Point SMR	5.34	6.86	0-174
Black Point SMCA	22.35	6.7	27-298
Gerstle Cove SMR	0.01	0.2	0-10
Russian River SMR	1.28	2.7	0-59
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 San Antonio SMR	0.09	1.2	0-10
Tomales Bay SMR	1.62	5.2	0-10
Point Reyes SMR	4.83	4.2	0-132
Point Reyes SMCA	13.19	7.6	51-217
Drakes Bay SMCA	3.11	15.2	0-10
Limantour SMR	0.91	7.5	0-10
Bolinas Lagoon SMR	1.74	2.3	0-10
Fitzgerald SMR	5.00	3.4	0-131
Fitzgerald SMCA	8.20	3.4	87-172
Southeast Farallone SMR	4.04	3.2	0-176
Southeast Farallone SMCA	11.42	0.4	45-382

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

Habitat Representation in Draft External Proposal A (XA) (1/2/08 version)

Habitat	Area ¹ (mi ²) and percentage of mapped habitat in proposed MPA designations in the study region ²			
	SMR	SMP	SMCA	Total MPAs
Intertidal				
Sandy or gravel beach	11.36 (10%)	0.00 (0%)	0.69 (1%)	12.05 (10%)
Rocky intertidal & cliff	33.57 (20%)	0.00 (0%)	6.61 (4%)	40.18 (24%)
Coastal marsh	16.86 (33%)	0.00 (0%)	12.40 (24%)	29.26 (57%)
Tidal flats	4.35 (24%)	0.00 (0%)	2.07 (11%)	6.42 (35%)
Seagrass beds: Surfgrass	13.80 (20%)	0.00 (0%)	0.67 (1%)	14.47 (21%)
Seagrass beds: Eelgrass	1.05 (17%)	0.00 (0%)	2.86 (47%)	3.91 (65%)
Estuary	2.98 (15%)	0.00 (0%)	3.02 (16%)	6.01 (31%)
Soft bottom				
0-30 meters	6.47 (4%)	0.00 (0%)	4.08 (3%)	10.54 (7%)
30-100 meters	8.94 (2%)	0.00 (0%)	67.66 (16%)	76.60 (19%)
100-200 meters ³	NA	NA	NA	NA
>200 meters ³	NA	NA	NA	NA
Hard bottom				
0-30 meters	4.93 (14%)	0.00 (0%)	1.36 (4%)	6.29 (18%)
30-100 meters	5.83 (11%)	0.00 (0%)	8.33 (16%)	14.16 (27%)
100-200 meters ³	NA	NA	NA	NA
>200 meters ³	NA	NA	NA	NA
Kelp forest				
Kelp 1989	0.37 (12%)	0.00 (0%)	0.01 (0%)	0.38 (12%)
Kelp 1999	0.18 (10%)	0.00 (0%)	0.00 (0%)	0.18 (10%)
Kelp 2002	0.18 (10%)	0.00 (0%)	0.00 (0%)	0.18 (10%)
Kelp 2003	0.17 (14%)	0.00 (0%)	0.00 (0%)	0.17 (14%)
Kelp 2004	0.16 (11%)	0.00 (0%)	0.00 (0%)	0.16 (11%)
Kelp 2005	0.15 (17%)	0.00 (0%)	0.00 (0%)	0.15 (17%)
Average kelp	0.20 (12%)	0.00 (0%)	0.00 (0%)	0.20 (12%)

¹ Note: Area expressed as mi² 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 MLPA North Central Coast Project
Draft External Proposal A (January 2, 2008 version)**

Proposal name: Draft External Proposal A: FMABB Plan

Proposal contributors: Fishermen's Marketing Association of Bodega Bay

Number and Type of MPAs in Initial MPA proposal: __13__ SMR__0__ SMP__7__ SMCA__20__ Total # MPAs

Narrative Rationale:

Draft MPA Proposal

Proposal Name: Draft External Proposal A (January 2, 2008 version)

MPA Name	Type	GIS ID #	General MPA Boundaries	Allowed or Disallowed Uses	Regional Goals/ Objectives/ Design Criteria [Format: "G103" for Goal 1, Objective 3)	MPA Specific Objectives [Short narrative on the main intent of this MPA]	Comments, Questions or Important Information
Arena Rock SMR	SMR		Eastern boundry 123*44'500" W above Pt. Arena and to the shoreline MHWL below the Point. North boundry 38*59'300" N; West boundry 123*46' W; South boundry 38*56' 300" N	No Take	G101;G102;G103;G104;G105;G202;G203;G301;G303;G402;G503;G6; Considers all design criteria	Protects diverse species and unique habitats (wash rocks, pinnacles, deep sand, kelp) fueled by persistant upwelling. Restoration potential for Yelloweye, Canary and sebastes complex rockfish populations(G2, 01,02). Leaves open for fishing the harbor, and popular fishing spot north and south of the harbor, most of the Manchester Beach crab grounds and cultural uses near the Garcia River mouth and Manchester Beach.	Rational for floating corner. To allow shorebased fishing and cultural uses along Manchester Beach, preserve commercial crabbing opportunities west and southwest of Manchester Beach without risking stray crab traps entering SMR, Garcia River left open to fishing.

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Arena Rock SMCA	SMCA		Eastern; 123'46W Western; 3 NM state waters Northern; 38'59.3N Southern; 38'56.3N	Allows recreational and commercial Salmon trolling only	G101;G102;G103;G104; G105;G202;G203;G204; G301;G303;G402;G503; G6 Considers all design criteria	This is a diverse habitat near the northern boundary of the study region. Restoration potential for all deeper sebastes complex rockfish as well as high protection for deeper soft substrate. Realizing that this cluster alone does not meet the required amount of 30-100 meter soft bottom this component is intended to work in conjunction with the Saunder's Reef offshore component to accomplish this requirement.	Provides high protection for all nearshore species to reach offshore waters while allowing the traditional harvest of commercial and recreational troll caught salmon. Provides protection of forage base.
Black Point SMR	SMR		South boundry 38* 40' W; West boundry from shore along South boundry for 1 nm , then straight line (5.673 nm. 306* mag.) to Del Mar Point	No Take	G101;G102GG103;G104; G105;G202;G203;G204; G301;G302;G402;G503	Retains Del Mar MPA, southern third protects unexploited abalone stocks and nearshore sebastes populations.	The southern half of this MPA is private property with very limited public access. Northern half borders private poperty with a much higher public impact.
Black Point SMCA	SMCA		Shares West, South, and North boundries of inshore component then out to the state waters boundry line.	Allows commercial and recreational Salmon and crab. No Take for any Sebastes Complex rockfish, Ling Cod, Cabazon, or Kelp Greenling	G101;G102;G103;G104; G105;G201;G202;G204; G402;G501;G503;G6	Helps to rebuild bethnic populations of softer substrate Sebastes species (Brown rockfish, Quillback) and creates a complex with the Black Point SMR	
Gerstle Cove SMR	SMR		Boundaries as existing	NO Take.	G101;G102;G103;G104; G105;G202;G203;G204; G301;G302;G402;G503	Further protects nearshore marine life that benefits from this pre-existing reserve.	

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Russian River SMR	SMR		Box around the Russian River Estuary mouth. North boundry 38* 27' 500" N; South boundry 38*26' 500" N; West boundry 123* 08' 500" W; East boundry shoreline and up into the Russian River to the Hwy 1 bridge.	No Take	G101;G102;G103;G104;G105;G201;G202;G203;G204;G303;G401	Protects estuary and river plume habitat, as well as Coho, Chinook, and Steelhead aggregations. Protects foraging and breeding areas for harbor seals and seabird colonies.	
Bodega Head SMR	SMR		Eastern 123 4.6 and mean high tide, Western 123 6, Northern 38 21.4, Southern 38 18	No Take	G101;G102;G103;G104;G105;G201;G202;G203;G301;G303;G402;G503;G6	Protects representative and unique marine life habitats including rocky habitat and associated ecosystem. Captures soft bottom habitat and associated species. Enhances Bodega Bay Marine Laboratory Reserve by providing a more realistic study area, provides protection for sea birds and mammals, protects forage base and foraging area popular for local and visiting bird life. Will protect the natural diversity and function of the marine ecosystem. Will help sustain and restore marine life populations. Allows for clear objectives, effective management, adequate enforcement, and sound science.	Loss of abalone fishing site and access to 3 of 56 sites in study region. Concensus to design MPA at Bodega Head instead of Tomales Bluff. Provides vast improvement to the Bodega Marine Lab study area.
Bodega Head SMCA	SMCA		Eastern (north of 38 18) 123 6 mean high tide and 123 4, Western 3nm state waters, Northern 38 21.4, Southern 38 15.5	Allows commercial and recreational Salmon and crab.	G101;G102;G103;G104;G105;G201;G202;G203;G204;G301;G303;G402;G501;G503;G6	Protects offshore soft and hard bottom habitat and the species associated with this habitat as well as forage base found in this cluster.	Provides connectivity of inshore component to benthic habitat for multispecies transit during life stages. Adds protective element to the Bodega Bay Lab study criteria by allowing protection of transit species.

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Estero Americano SMR	SMR		Across mouth of estero, east to headwaters lacking tidal influence	No Take	G101;G102;G103;G104;G105;G201;G202;G203;G301;G303;G401	Protects nursery habitat for halibut, perch, starry flounder. Protects communities associated with areas of diverse estuarine habitats including open channels, mud flats and eel grass beds.	
Estero San Antonio SMR	SMR		Across mouth of estero, east to headwaters lacking tidal influence	No Take		Protects nursery habitat for halibut, perch, starry flounder. Protects communities associated with areas of diverse estuarine habitats including open channels, mud flats and eel grass beds.	
Tomales Bay SMR	SMR		From the most southerly point of Millerton Point (36°06.345' N 122° 50' 973" W) westerly(236°mag) to the point of land adjacent to the Inverness Yacht Club (38° 06'.228"N 122°51' 438" W) and all the waters bounded by the shoreline to Railroad Point.	No Take	G101;G103;G104;G105;G201;G303;G401	This SMR provides a high level of protection to eel grass beds and the bird life that flourishes in this region.	Note that various agencies and local groups are in a restoration phase for part of this SMR.
Point Reyes SMR	SMR		Northern boundry on West side of headland 38°00 500N; Northern boundry to East side of headland 38°.00' N; East boundry 122°57' W; West boundry 123°02W ;South boundry 37° 59' N	No Take	G101;G102;G103;G104;G105;G201;G202;G203;G303;G304;G402;G501;G503;G6	Little commercial use inshore, avoids significant recreational rockfish impacts on rocks west of headlands and Chimney Rock. Avoids significant impact to commercial crab and salmon in waters greater than 20 fathoms and avoids salmon trolling east-west tacks below headlands	Protects a major headland area and will protect forage breeding and nesting areas for mammals and birds.

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Point Reyes SMCA	SMCA		North boundry 37*59' N; South boundry 3 mile state line; West boundry 123* 02' W ; East boundry 122* 57' W	Commercial and recreational salmon trolling, dungeness crab fishing with traps, anchovy, sardine, herring and squid	G101;G102;G103;G10 4;G105;G201;G202;G 203;G204;G301;G302; G303;G402;G501;G50 3;G6	Protects offshore rock and soft bottom habitats, rockfish, and retention areas in Drakes Bay. Protects Chimney Rock area In SMR component.	Reduces the socio-economic impact of the MLPAl by allowing much of the traditional commercial and recreational salmon and crab harvest in one of Bodega Bays most valuable and productive areas.
Limantour SMR	SMR		That part of the estero complex to the East of Drake's Estero, all it's tidal lands and minor tributaries known as Limantour Estero.	No Take	G101;G102;G103;G10 4;G105;G201;G202;G 203;G303;G401;GG	Protects unique esurarian habitat in remote setting; helps to rebuild species that use this estuarian environment for nursery and juvenile foraging ares; provides protection and forage area for sea and land based wildlife such as harbor seals and seabirds; provides safe haul out for harbor seals during heavy surf along coast; allows local adult finfish populations full protection.	This part of the Drake's Estero complex is intended to be a full protection component. It is the intention of this proposal to include this SMR into the outcome of the current litigation with the traditional aquaculture business in Drake's Estero.
Drakes Bay	SMCA		Includes all waters, sand bars, marsh land, and shoreline inside the mouth of the Drakes and Limontour seaward opening.	Oyster aquaculture only. See notes	G101;G102;G103;G10 4;G203G303;G401;G5 01;G6	Realizing that there are current negotiations pertaining to renewal of existing aquaculture permits and leases past the 2012 year termination time, we recognize that an effective SMCA allowing only oyster aquaculture is effective for accomplishing significant protection for all other species in the estuary. Note that it is the intention of this proposal that if the request for extension of the current leases and permits are denied and all recourse is exhausted, that this SMCA become a full SMR and become a part of the Pt. Reyes Wilderness program.	The importance of oyster aquaculture in the area is significant on a global scale. A high quality oyster is produced and has been for 100 years. These oysters are enjoyed by people around the world. The oyster producers are turning water into food. Protection for mammals, sea birds, and many juvenile fin fish as well as many species of adult finfish.

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Bolinas Lagoon	SMR		Includes all waters, sand bars, marshland, and mud islands inside the mouth of the Lagoon to the mean high tide mark.	No Take	G101;G103;G104;G105;G202;G203;G303;G401;G6	Very high level of protection for harbor seals, sea birds, various finfish, and juvenile finfish.	A local small boat fleet uses the Lagoon adjacent to Bolinas for safe harbor. It is the intention of this proposal to allow the traditional use of this harbor and its access to the open sea.
Fitzgerald S	SMR		Eastern mean high tide, Western 122 32.3, Northern 37 32.7, Southern 37 29.7	No Take	G101;G102;G103;G104;G105;G201;G202;G203;G301;G302;G303;G402;G503;G6	Very high protection and greatly enhances Fitzgerald State Park, one of the most biodiverse regions in the state. Protect a portion of the offshore reefs in support of the Nearshore FMP. Improves fish productivity in the surrounding similar habitat. Protects a mix of sand, rock, bull kelp, and surfgrass habitat as well as seabird and mammal sites.	Will have impact on small boat rockcod harvest. Will have some impact on local economy in harbor due to loss of small boat access to close fishing grounds, but by making this cluster large will avoid any sites further South.
Fitzgerald S	SMCA		Eastern 122 32.3, Western 3nm state waters, Northern 37 32.7, Southern 37 29.7	Allowed Uses: Salmon trolling; anchovy, sardine, herring; dungeness crab (All applies to commercial and recreational)	G101;G102;G103;G104;G105;G201;G202;G203;G204;G301;G302;G303;G501;G6	Will enhance the existing Fitzgerald State Park with added offshore protection of groundfish access to deeper waters offshore. Will allow traditional small boat access to very popular troll salmon and crab grounds while providing protection for seabastes, and other unusual species found here and inshore.	Reduces social-economic impact by allowing continued Salmon and crab fisheries.
Southeast Farallone SMR	SMR		Northern boundary 37*43' N; Southern boundary 37*41' N; East boundary 123*59' W; West boundary 123*01' W	No Take	G101;G102;G103;G104;G105;G201;G202;G203;G302;G401;G402;G503G6	Very high protection for unique assemblages of algae, finfish, sea birds, mammals, and inter and subtidal sealife and the unique sealife found in the water column.	A monument to all sealife. This SMR will help to seed the surrounding populations of finfish not included in the SMR or SMCA component. Will impact popular recreational rockfish harvest at Hurst Shoal and deeper waters.

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Southeast Farallone SMCA	SMCA		Northern boundry 37°42' 500"N; Southwesterly boundry is the state waters line at 3 nm continuous to longitude line 123°01' W and back to point of origin.	Allows the commercial and recreational harvest of troll caught salmon only.	G101;G102;G103;G104;G105;G201;G202;G203;G204;G30301;G302;G303;G401;G402;G501;G6	High protection of many species of rock fish and forage fish and the unique sealife found in the water column. Provide protected connectivity to benthic habitat in close proximity to the Island.	This SMCA will help seed the adjacent similar habitat that is found nearby and provide connectivity to the benthic areas found in close proximity to the Island while providing traditional access to commercial and recreational troll caught salmon harvest. Will provide a great starting point for Sanctuary MPA that piggybacks and goes seaward.
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**California MLPA North Central Coast Project
Draft External Proposal A (January 2, 2008 version)**

Consideration of Existing State MPAs MPA Proposal Name: Draft External Proposal A Please indicate how existing MLPA 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			Remove
Del Mar Landing SMP		Enhanced in Black Point	
Salt Point SMCA	X		
Gerstle Cove SMCA		X	
Fort Ross SMCA			X
Tomales Bay SMP		Enlarged	
Point Reyes SMCA		Enlarged	
Estero de Limantour		X	
Duxbury Reef SMCA			X
Sonoma Coast SMCA		Reduced and included in Bodega Bay cluster	
Bodega SMR		Enlarged	
Fitzgerald SMP		Enlarged	
Farallon Islands SMCA		Enlarged	

Consideration of Marine Bird and Mammal Protection (OPTIONAL) 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. This is being discussed by a special team to consider its inclusion in the process.

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