

California MLPA North Central Coast Project
Narrative Rationale for the North Central Coast Regional Stakeholder
Group (NCCRSG) Marine Protected Area (MPA)
Proposal 1-3 (March 19, 2008 version)
Revised March 27, 2008

NCCRSG MPA Proposal 1-3 is the product of a cross-interest work team drawn largely from work groups 1 (former Emerald) and 3 (former Turquoise). Our goal was to fulfill the MLPA Blue Ribbon Task Force (BRTF) mandate for a backbone of marine reserves and MPAs with a "high" level of protection, an emphasis on MPAs that meet "preferred" size and spacing, and satisfaction of MLPA Master Plan Science Advisory Team (SAT) and California Department of Fish and Game guidelines. As the only work group continuously developing and designing MPAs with participation from across the spectrum of interest groups, we are confident that this proposal meets the BRTF directive to garner cross-interest support.

Specifically, the key objectives were to:

- Address feasibility and SAT guideline issues with draft MPA proposals 1 and 3,
- Retain and attract cross-interest support by blending proposals 2-XA and 4, and
- Draw on the best ideas of what the NCCRSG has designed to date in all proposals.

The "Lucky 13" work team was comprised of diverse interests, including a commercial fisherman, a pier and shore angling representative, a party boat operator, conservation representatives, non-consumptive and consumptive divers, marine mammal and bird docents, a former commercial abalone diver, a kayak fisherman, a high school marine biology teacher (former ranger/naturalist), California State Parks and the Gulf of the Farallones National Marine Sanctuary representatives, among others. The team thoroughly addressed these diverse interests by discussing areas and often voting to decide specific shapes, regulations and special closures. The final product is an MPA network that incorporates selections, tradeoffs and new design ideas of the group.

Proposal 1-3 has a strong network of very high and high protection sites; it succeeds in offering an array of seven MPA clusters that meet the minimum size guideline at the high protection level. Proposal 1-3 also has five preferred size MPA clusters: two at the very high protection level, one at the high protection level, one at moderate high and one at the moderate protection level. Although some MPA clusters are moderate high or lower due to cross interest participation in the group, these decisions were discussed and considered carefully, and explanations are provided for the socioeconomic considerations and the reasons why the MPAs still help achieve MLPA goals.

**California MLPA North Central Coast Project, Regional Stakeholder Group (NCCRSG)
Marine Protected Area (MPA) Proposal 1-3 (March 19, 2008 version)
Revised April 10, 2008**

Name of NCCRSG MPA proposal: Proposal 1-3 (March 19 version)

Number / types of MPAs: 12 SMR 1 SMP 10 SMCA 23 Total # MPAs

Number / types of other closures: 0 SMRMA 7 Special closures

Narrative rationale: See attached document for narrative rationale

SMCA = state marine conservation area SMP = state marine park
SMR = state marine reserve SMRMA = state marine recreational management area

MPA Name	Type	GIS ID#	Exact MPA Boundaries ¹	Proposed Regulations	SAT Assigned Level of Protection	Regional Goals/ Objectives [Format: "G103" for Goal 1, Objective 3]
Point Arena SMR	SMR	aa20	North boundary: N 38 59 South boundary: N 38 56.4 West boundary: W 123 46 East boundary: Off Point Arena. 123 44.5 and East boundary to the south of Mean high tide line	All take is prohibited.	Very High	G101, G102, G103, G104, G105 G201, G202, G203, G204 G301, G302 G402 G501, G503 G6 Meets all design considerations
Point Arena SMCA	SMCA	aa1	North boundary: N 38 59 South boundary: N 38 56.4 West boundary: State waters East boundary: W123'46	All take is prohibited, EXCEPT recreational and commercial salmon trolling	High	G101, G102, G103, G104, G105, G201, G202, G203, G204, G301, G302 G402 G501, G503 Meets all design considerations

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Point Arena SMR	Protect diverse species & unique & complex habitats (pinnacles, wash rocks, caverns, clefts, honeycomb formation, undercut & vertical rock walls, cobbles, deep sand, kelp), fueled by persistent upwelling.(G4O2) Restoration potential for declining yelloweye, canary & china rockfish populations. (G2 O1, O2) Leaves open for fishing the harbor, popular fishing and diving spots north & south of harbor, most of Manchester Beach crab grounds, shore fishing on Manchester, extensive salmon fishing areas & cultural uses near Garcia River mouth & Manchester Beach (G3 O1) Improves fish productivity in SMR to benefit local rockfish fishing outside MPA (G3 O2) Iconic place.(G3 O3) Port representatives were consulted to design high protection cluster of minimum size with smallest socioeconomic impact.	Rationale for northern floating corner: to allow shore-based fishing and cultural uses along Manchester Beach, preserve commercial crabbing opportunities west and southwest of Manchester. Shifted 1/2 minute west to accommodate crab inshore and to compensate for moving western boundary west to W 123 46 from W 123 45. Rationale for the 56.4'N southern boundary is that it aligns with a visible landmark, a hedge and access road, and was approved by DFG staff on March 4.	Know that the SMR is less than 9 sq mi, but smaller to accommodate socioeconomic concerns. Entire cluster is of minimum size and counts as High Protection because western boundary of SMR was moved west to W 123 46, which leaves only deeper water salmon trolling occurring in the SMCA, giving it an "SMCA High" ranking.	
Point Arena SMCA	Extend protection to state boundary to encompass deeper habitat & associated species in regional center of high productivity (see above). G101, G102, G103, G201 and G202, and G402 • Protect nearshore reef species & habitats on which they depend while allowing commercial and/or recreational harvest of migratory, highly mobile, or other species where appropriate through the use of SMCA. (G2O4, G5O1)			

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Saunders Reef SMCA	SMCA	aa3	North boundary: 38° 52' N.; South boundary: 38° 50' N.; West boundary: Three nautical mile offshore boundary (state waters line); East boundary: Mean high tide line.	All take is prohibited, EXCEPT recreational and commercial salmon trolling, commercial urchin, and recreational abalone and recreational take of finfish by hook and line from shore and recreational spear fishing from shore. Diving from a boat for spear fishing is not allowed.	Mod-low	G102, G103 G201, G202, G203 G402, G501, G502, G503 Meets all design considerations
Del Mar Landing SMP	SMP	aa25	Existing boundaries, but square off. From hedgerow at (123 30.75, 38 44.48) out to (123 30.95, 38 44.32) to (123 30.56, 38 44.21) to hedgerow at (123 30.3, 38 44 .44)	All take is prohibited, EXCEPT recreational take of finfish by hook and line or spear	Mod-low	G203, G302, G501
Rocky Point to Horseshoe Point SMR	SMR	aa18	North boundary: N 38 40 South boundary: 38 36 West boundary: State waters East boundary: Mean high tide	All take is prohibited.	Very High	G101, G102, G103, G104, G105 G202, G203 G303 G402 G501, G503 G6 Meets all design considerations

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Saunders Reef SMCA	Protects complex and highly productive rocky reef and kelp habitat including one of the largest stands of bull kelp in the north central coast, and associated species, while attempting to minimize socioeconomic impacts to the area. (G4 O2, G2 O2, G5 O1)		Regulations reflect attempt to protect valuable habitat & associated species, including groundfish, while mitigating socioeconomic impacts. At "Low Protection," does not attempt to count for size and spacing guidelines, but proponents believe it will have value in protecting large kelp reef habitat & associated species. Southern boundary moved up .5 minutes to accommodate take of rockfish at Trigger Reef to south. Saunders Reef SMCA is paired with Pt. Arena SMR for network viability.	This shape has the same outer boundaries as 1 and 3, but without the diagonal line splitting two SMCAs. Shape was made smaller to accommodate take of rockfish near Sail Rock.
Del Mar Landing SMP	Control area for abalone studies, enhances consumptive recreation, community importance/stewardship and support for keeping this SMP as a heritage site. (G3O2, G3O3)	Does not meet boundary guidelines, but its existing boundaries, marked by hedgerows that are clearly visible from the water, are well-known and residents are very familiar with them.	Is too small to count for size and spacing, but maintains an existing heritage MPA that is important to the community.	
Rocky Point to Horseshoe Point SMR	Provides highest protection to complex rocky habitat, large kelp area, coves, wash rocks, shelves, walls, cobble & boulders & dependent species within SAT preferred-size range reserve. (G1O1, G1O3, G1O4, G1O5, G4O2) Includes area with relatively steep depth gradient and high relief near shore. (G4O2) Provides very high level of protection from shoreline to state waters line to ensure connectivity in protection of habitat from shoreline to deep water. (G1O5) Protects area offshore Salt Point State Park boundaries to establish natural age structure & populations for non-consumptive users & to enhance fishing experience to south of reserve through larval & adult movement.(G3O2) Sustain or increase reproduction by species most likely to benefit from MPAs through retention of large, mature individuals. (G2O2)			

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Gerstle Cove SMR	SMR	aa26	Existing SMCA boundaries: North boundary: mean high tide South boundary: approximately N 38 33.9, marked onshore West boundary: mean high tide East boundary: mean high tide	All take is prohibited.	Very High	G101, G103, G103 G201, G202 G301, G302, G402 G501, G502
Russian River SMR	SMR	aa24	North boundary: mean high tide South boundary: mean high tide West boundary: W 123 7.8 East boundary: W 123 06 In Estuary	All take is prohibited.	Very High	G105, G201, G301, G302, G303, G401, G402, G502 Considers all design criteria
Russian River SMCA	SMCA	aa4	North boundary: mean high tide South boundary: line from goat rock at approx N 38 26.35 West boundary: W 123 8.5 East boundary: mean high tide including up to SMR boundary at W 123 7.8	All take is prohibited, EXCEPT recreational and commercial take of Dungeness crab by trap and recreational take of surf smelt by hand beach nets/dip nets.	Moderate	G105, G301, G302, G303, G401, G402, G502 Considers all design criteria
Bodega Head SMR	SMR	aa5	North boundary: N 38 21 South boundary: N 38 18 West boundary: state waters East boundary: mean high tide	All take is prohibited	Very High	G101, G102, G103, G104, G105 G202, G204 G301, G303 G402 G501, G503 G6 Meets all design considerations

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Gerstle Cove SMR	Protects intertidal habitat in an existing MPA that appears to be working for resident species, including abalone. (G4O2) Enhances biodiversity protection from existing MPA via proximity to Rocky Pt -Horseshoe Pt. SMR. G1O1) Preserves traditional site for educational and non-consumptive recreation; This SMR is a heritage site.. (G3O2)		Does not count for SAT size and spacing guidelines, but maintains an existing MPA and provides opportunities for education.	Current SMCA regulation allowing commercial finfish & algae harvest reflects DFG's historic lack of authority to regulate commercial take in MPAs. There was broad cross interest support to convert SMCA to full SMR protection.
Russian River SMR	1.) Protect nursery ground habitat. 2.) Protect communities associated with areas of diverse estuarine habitats including open channels, mud flats, eel grass beds, etc. Protects estuary, steelhead, Russian River Chinook & Coho salmon, birds, mammals etc. Protects salmonid resources subject to fishing impacts when balled up at mouth of estuary when closed.		Does not count for SAT size and spacing guidelines, but has value in protecting aggregations of salmonids.	
Russian River SMCA	Protect Russian River Chinook and Coho salmon (Evolutionary Significant Units), at localized estuarine collection point.		Does not count for SAT size and spacing guidelines, but has value in protecting aggregations of salmonids and protects representative estuarine habitat.	
Bodega Head SMR	Protect multiple rocky reefs of varying depths, high relief rocky habitat at the north end, and high energy headlands. (G1O2, G1O5, G4O2) Protects currently fished areas with restoration potential. (G1O5, G2O2) Include rock and sand habitat types in close proximity to each other.(G1O2) Improves fish productivity in the SMR to benefit local rockfish fishing outside the MPA (G3O2) Close proximity to Bodega Marine Lab provides enhanced research opportunities. (G3O3, G3O4)			This MPA cluster leaves reef and sand habitat outside its boundaries for research opportunities on "spillover effect."

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Bodega Head SMCA	SMCA	aa6	North boundary: N 38 18 West boundary: state waters; Southeast boundary: From the light on bodega head, southwest through whistle buoy, directly out to state waters	All take is prohibited, EXCEPT recreational and commercial take of pelagic finfish by hook and line (salmon by troll only), and Dungeness crab by trap.	Mod-high	G101, G102, G103, G104, G105 G202, G204 G301, G303 G402 G501, G503 G6 Meets all design considerations
Estero Americano SMR	SMR	aa22	North boundary: mean high tide South boundary: mean high tide West boundary: mouth of the estuary East boundary: W 122 59.25	All take is prohibited	Very High	G101, G102, G103, G104, G105 G201, G203, G204 G301, G303 G401, G402 G501, 502, G503 G6 Meets all design considerations
Estero de San Antonio SMR	SMR	aa23	North boundary: mean high tide South boundary: mean high tide West boundary: mouth of the estuary East boundary: W 122 58	All take is prohibited	Very High	G101, G102, G103, G104, G105 G201, G203, G204 G301, G303 G401, G402 G501, 502, G503 G6 Meets all design considerations

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Bodega Head SMCA	Extend protection to include deeper water and varied habitat including a reef that extends to the state water boundary. (G1O2, G1O5, G4O2) Improves fish productivity in the SMR to benefit local rockfish fishing outside the MPA (G3 O2) Protect near shore reef species and the habitats on which they depend while allowing the commercial and/or recreational harvest of migratory, highly mobile, or other species where appropriate through the use of a state marine conservation area. (G2O4)	The purpose of the angled line is to protect the Bodega Head reef in its extension to the state water boundary, while allowing more room for small boats to fish outside the SMCA which has socioeconomic benefits. Angled line goes from point, through the Whistle Buoy (colored red and numbered "12"), to the state water line. DFG staff on site said it was enforceable.	Preferred size cluster of Moderate High Protection, due to socioeconomic considerations.	MPA cluster leaves reef & sand habitat outside its boundaries for research opportunities on "spillover effect." Stakeholders prefer a broader bait "take" allowance under title of "coastal pelagics" in order to allow fishermen to make bait, troll with bait & transit through SMCA with bait fish (dead or alive). Based on SAT determination it would lower protection level, we removed the original wording.
Estero Americano SMR	A) Protect nursery ground habitat. B.) Protect communities associated with areas of diverse estuarine habitats including open channels, mud flats, eel grass beds, etc. Goals: 1,2,4 Protect unique estuary habitat with Tidewater goby, migratory birds, rare nudibranch, sea cucumbers, and high biodiversity			Flag water quality as an issue in this area. Despite current waterfowl hunting activities, did not designate as an SMRMA because proponents did not want to codify duck hunting.
Estero de San Antonio SMR	A.) Protect nursery ground habitat. B.) Protect communities associated with areas of diverse estuarine habitats including open channels, mud flats, eel grass beds, etc. Goals: 1,2,4 Protect unique estuary habitat with Tidewater goby, migratory birds, rare nudibranch, sea cucumbers, & high biodiversity. One of most natural Mediterranean climate-type estuary remaining in California with salinity from 10-44 ppt. Supports CA freshwater shrimp. Endangered species; Historical robust steelhead fishery;			Flag water quality as an issue in this area. Despite current waterfowl hunting activities, did not designate as an SMRMA because proponents did not want to codify duck hunting.

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Point Reyes SMR	SMR	aa27	Northwest boundary: N 37 59.9 West boundary: W 123 02 East boundary: Diagonal line anchored at: W 122 57.4, N 37 59, extending to shore at: 122 55, 38 01.7. South Boundary: N 37 59	All take is prohibited	Very High	G101, G102, G103, G104, G105 G201, G202, G203, G204 G301, G302 G402 G503, G6 Meets all design considerations
Point Reyes SMCA	SMCA	aa7	North boundary: N 37 59 South boundary: state waters West boundary: W 123 02 East boundary: W 122 57.4	All take is prohibited, EXCEPT recreational and commercial salmon trolling and take of Dungeness crab by trap.	Mod-high	G101, G102, G103, G104, G201, G202, G203, G204 G301, G302 G402 G503 G6 Meets all design considerations
Drakes and Limantour Estero SMR	SMR	aa9	North boundary: N 38 02.66 in the Drakes arm and mean high tide line in Limantour arm. South boundary: mouth of the estuary West boundary: mean high tide East boundary: mean high tide	All take is prohibited.	Very High	G101, G103, G104, G105 G201, G202, G203 G301, G303 G401, G402 G503 Meets all design considerations

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Point Reyes SMR	<p>Protects diverse fish, seabird & marine mammals associated with multiple habitats including exposed high energy rocky shoreline, sand & gravel beaches, offshore islets, surf grass, soft & hard substrates set against oceanic features of major headlands at receiving end of coastal upwelling system of global significance. (G4, O2)</p> <p>Protects natural tropic & natural ecosystem structure & function with minimal human-induced changes. (G1, O4 and O5)</p> <p>Protects larval retention zone of regional import for many fish & invertebrate species. (G2, O2)</p> <p>Reduces disturbances to major mainland seabird colonies & elephant seal rookeries within study region. (G2, O3)</p> <p>Preserves an iconic place. (G3, O1)</p> <p>Include areas with diverse habitat types within one MPA cluster. (G1, O2). Leverage National seashore for monitoring, enforcement & education. (Design guidelines 6 & 9).</p>	<p>Angled line goes to a buoy and anchors to a major line of latitude on shore. Minimizes socioeconomic impacts while maintaining a minimum size MPA complex. A composite of major socioeconomic considerations dictated the shape of this SMR: commercial and recreational interests in crab, salmon, rockfish and halibut fisheries all were significant in design considerations.</p>		
Point Reyes SMCA	<p>SMCA extends protection offshore to state boundary for diverse fish, seabird & marine mammal species in deeper hard & soft bottom. G101, G102, G301, G402, G503, G6</p> <ul style="list-style-type: none"> • Protect near shore reef species & habitats on which they depend while allowing commercial and/or recreational harvest of migratory, highly mobile, or other species where appropriate through use of SMCA. (G2O4). Helps protect diversity of species, including fish & mammals. Covers diversity of bottom habitats & oceanographic/wind conditions. 		<p>A composite of major socioeconomic considerations dictated the shape of this MPA cluster: commercial and recreational interests in crab, salmon, rockfish and halibut fisheries all were significant in design considerations.</p>	
Drakes and Limantour Estero SMR	<p>Expands on long-term protections of Limantour Estero for complex estuarine habitats & dependent species, including eelgrass beds & mudflat ecosystems. (G1O1, G1O4, G1O5, G2O3, G4O1)</p> <p>While not evaluated as one MPA, SMR is contiguous to Point Reyes SMR, providing connectivity between tributaries & tidal marshes & diverse near-shore habitats. (G1O5, G2O3, G4O1)</p> <p>Significant nursery area for Dungeness crab, & numerous rockfish & flatfish species. (G2O3)</p> <p>Essential habitat for Black Brandt geese & a key foraging area for shorebirds, coastal waterfowl & brown pelicans. (G2O3)</p> <p>In designated federal wilderness area (G1O1, G3O2)</p> <p>Leverage National seashore for monitoring, enforcement & education. (Design guidelines 6 and 9).</p> <p>Supports current NPS coho salmon & steelhead trout migration habitat restoration projects on multiple tributaries. (G2O1)</p> <p>Protect major harbor seal pupping & haul-out sites. (G2O3)</p>			

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Drakes Estero SMCA	SMCA	aa8	North boundary: mean high tide South boundary: N 38 02.66 West boundary: mean high tide East boundary: mean high tide	All take is prohibited, EXCEPT shellfish mariculture and recreational clamming until the mariculture leases/reservations of use expire	Low	G101, G103, G104, G105 G201, G202, G203 G301, G303 G401, G402 G503 Meets all design considerations
Double Point SMCA	SMCA	aa11	North boundary: N 37 57 South boundary: N 37 54.3 West boundary: state waters East boundary: mean high tide	All take is prohibited, EXCEPT recreational and commercial salmon, Dungeness crab by trap, and hook and line halibut. Allows take and possession of coastal pelagics (sardines, anchovy, herring, mackerel, croaker, and smelt) by hook and line (maximum 5 size 10 hooks with a 8 oz weight).	Moderate	G102, G201, G202, G203, G204, G302, G401
Duxbury Reef SMCA	SMCA	aa12	North boundary: N 37 54.3 South boundary: extent of existing SMCA West boundary: 200 ft offshore from mean low low water East boundary: mean high tide	All take is prohibited, EXCEPT recreational finfishing by hook and line from shore. Take of invertebrates and algae, alive or dead, is prohibited.	Moderate	G301, G302, G402

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Drakes Estero SMCA	Protects estuarine habitats while allowing existing aquaculture activities as well as recreational clamming to continue. The proposal recognizes the unique ecosystem of the estuary and recommends that this MPA be given full SMR protection when the leases/reservations of use expires in 2012. When turned into an SMR, it will fulfill the objectives outlined for the Drakes Estero and Limantour SMR			Allowing clamming may lead to harbor seal disturbance - be managed thru education and docents
Double Point SMCA	Protects diverse habitats from rock & sandy inter-tidal to rocky reef near-shore with mosaic of hard & soft-substrates & kelp beds & their respective species & ecosystems. Includes portion of one of largest shale reefs in state (G1O1, G4O2) Allow commercial and/or recreational harvest of migratory, highly mobile species through use of SMCA. (G2, O4) Dispersal of groundfish species associated with reef ecosystem should benefit fishing opportunities on balance of reef area in vicinity, as well as provide additional research opportunities for size & population studies.(G2O4,G3O2, G3O3) Protect contiguous area with diverse benthic, kelp & intertidal habitats (G1, O2) Sustain or increase reproductive reproduction by species most likely to benefit from MPAs through retention of large demersal fish (G2, O2)	Socioeconomic constraints in the designs of the adjacent Point Reyes MPA cluster limited the amount of rocky reef and hard substrate habitats that could be protected west and SE of the proposed Point Reyes SMR. The Double Point MPA was specifically designed to balance that deficiency. Justification for moderate protection MPA at Double Point is to provide protection for a part of the reef for restoration. The SMCA will help the port of Bolinas and allow fishing interests limited take in an economically and historically important area.	Reason for moderate level of protection: Intended to protect ground fish and associated ecosystems, while minimizing socioeconomic impacts	Intent with allowing the coastal pelagics is to allow fishermen to make bait and transit the MPA with bait. This will be dropped in total or in part if it lowers the LOP designation. Intent by proponents is not to alter protection level of SMCA by adding unevaluated species, but simply to accommodate for fishermen and ensure we don't create a situation where carrying and using live bait unintentionally creates enforcement problems.
Duxbury Reef SMCA	Retains a heritage site with strong community and educational interest and support (G3 O1)□ Protect intertidal habitat, algae and intertidal invertebrates, especially mussel beds, in a portion of one of largest shale reefs in state and diverse intertidal habitats fueled by upwelling and near the Sacramento River plume (G4 O2) Replicates, to an extent, diverse intertidal and subtidal rock and sand habitats at Fitzgerald reef. (G4 O2) By allowing shore based hook and line fishing, preserves accessible family fishing location (G3 O2) Leverage adjacent land protection and enhance reserve protection and enforcement by establishing a State Marine Reserve adjacent to Agate Beach County Park. (Design guidelines 6 and 9).	Maintains portion of existing SMCA as heritage site. Duxbury Reef SMCA replaces existing MPA & improves clarity of rules & adds greater degree of protection for numerous species. In proposed rules, onshore fin fishing allowed with no take of invertebrates & algae from shore, of which protection of mussel beds is highest priority. Duxbury Reef is important educational site & long term research site thus important to continue to protect area. Existing county park. Takes advantage of long monitoring -- PISCO sites at Duxbury Reef & Bolinas Point, educational use of Duxbury Reef, long term studies by College of Marin & GFNMS, & GFNMS planning docent program.	Does not meet SAT size and spacing guidelines; maintains a portion of an existing MPA as a heritage site	Portion of existing Duxbury SMCA Revisit boundaries with Susan/Bryan - 200 ft? Suggest to the Fisheries Management Council to waive the requirement for a VMS for groundfish when transiting Federal Waters for Bolinas.

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Fitzgerald SMR	SMR	aa17	North boundary: N 37 33 South boundary: N 37.29.75 (Pillar Point) West boundary: state waters East boundary: mean high tide	All take is prohibited	Very High	G101, G102, G103, G104, G105 G201, G202, G203, G204 G301, G302, G303, G304 G402 G501, G502, G503 G6 Meets all design considerations
Fitzgerald SMR (continued)	SMR	aa17				

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Fitzgerald SMR	<p>Protect many representative habitat types found in CA including rocky intertidal, rocky subtidal, shale reefs, granite reefs and boulders, soft sediment (sand and gravel), rocky cobble areas, sea grass beds of ~ 20 acres, bull kelp beds of > 100 acres, giant kelp beds of ~ one acre, rocky pinnacles, coralline algae beds & benthic subtidal drift algae. (G4 O2)</p> <p>Protect areas of high species diversity associated with the habitat complexity. (G1 O1)</p> <p>Protect integrated ecosystem from shore to state water boundary in order to allow system to function with minimum of human disturbance. (G1 O3, 4, 5)</p> <p>Protect larval source & enhance reproductive capacity of intertidal invertebrate species such as abalone, limpets, mussels & other invertebrates. (G2, O2)</p> <p>Sustain or increase reproduction by nearshore fishery management species most likely to benefit from MPAs through retention of large, mature individuals. (G2, O2)</p>			This SMR leaves reef habitat outside SMR boundary to the south for research opportunities on "spillover effect."
Fitzgerald SMR (continued)	<p>Protect a contiguous area with diverse habitats (G1, O2)</p> <p>Protect rare & endemic species - 6 endemics plus listed species. (G2 O1)</p> <p>Protect breeding & resting seabirds & marine mammals from disturbance by fishing activities. (G1, O1 and G2, O2)</p> <p>Improve scientific research such as LiMPETS student monitoring program & university research (G3 O3)</p> <p>Protect & enhance educational & non consumptive recreational uses; MPA already has volunteer programs, some of which have been in place since 1972 (G3 O1, O4)</p> <p>Leverage adjacent land protection & enhance reserve protection & enforcement by establishing a SMR adjacent to county park. (Design guidelines 6 and 9).</p>			

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MPA Name	Type	GIS ID#	Exact MPA Boundaries¹	Proposed Regulations	SAT Assigned Level of Protection	Regional Goals/ Objectives [Format: "G103" for Goal 1, Objective 3]
Montara SMCA	SMCA	aa16	North boundary: N 37 35 South boundary: N 37 33 West boundary: state waters East boundary: mean high tide	All take is prohibited, EXCEPT recreational and commercial salmon trolling, recreational and commercial Dungeness crab by trap, wetfish, and recreational and commercial halibut by hook and line.	Moderate	G101, G102, G103, G104, G105 G201, G202, G203, G204 G301, G302, G303, G304 G402 G501, G502, G503 G6 Meets all design considerations
North Farallon Islands SMR	SMR	aa13	North boundary: state waters line South boundary: 37° 45.7'N West boundary: 123° 07'W East boundary: state waters line	All take of living marine resources is prohibited	Very High	G101, G102, G103, G104, G105 G201, G202, G203, G204 G301, G302, G303 G401, G402 G501, G502, G503 Meets all design considerations
Southeast Farallon Islands SMR	SMR	aa14	North boundary: 37° 42.6'N South boundary: 37° 40.5'N West boundary: 123° 02'W East boundary: 122° 59.5'N	All take of living marine resources is prohibited	Very High	G101, G102, G103, G104, G105, G202, G203, G204, G301, G302, G303, G401, G402, G502, G503, G601, G602 Considers all design criteria

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MPA Name	MPA Specific Objectives	DFG Feasibility Guidance: Justification if MPA does not follow guidance	SAT Guidelines: Justification if MPA does not meet guidelines	Other Comments/Clarification
Montara SMCA	<p>Protect diverse area with mix of sand & rock. (G4O2) Protect nearshore species & habitats on which they depend while allowing commercial and/or recreational harvest of migratory, highly mobile, or other species where appropriate through use of a SMCA. (G2, O4) Extend protection of reef habitat north of Fitzgerald SMR. (G4 O2) Sustain or increase reproduction by nearshore fishery management species most likely to benefit from MPAs through retention of large, mature individuals. (G2, O2) Protect contiguous area with diverse habitats (G1, O2) Protect breeding & resting seabirds & marine mammals from disturbance by fishing activities. (G1, O1 and G2, O2)</p>		<p>The work group recognizes that by permitting a halibut fishery in this MPA that the LOP for this cluster falls to moderate, significantly affecting the score of this Fitzgerald cluster. Consensus on the final design of this MPA cluster reflects true cross interest support.</p>	<p>Intention is to have a moderate level of protection.</p>
North Farallon Islands SMR	<p>Include a portion of unique tidal, subtidal, benthic a&pelagic habitat of Farallones (G4 O1) Help protect concentrations of prey & foraging predators—fish & breeding colonies of seabirds & marine mammals—at highly productive & unique mix of habitats. Further objectives of reserve to protect natural diversity & structure (G1, O1) & function of unique marine ecosystem (G1, O5), help assure continued recovery of ground fish (G2, O1), enhance reproductive success of seabirds & marine mammals using islands (G2, O3), & increase supply of large adults & larval fish which can disperse to adjacent areas for fisheries harvest outside MPA (G3 O2) Protects globally significant biological site. G101, G102, G103, G104, G105 G201, G203, G204, G401</p>			
Southeast Farallon Islands SMR	<p>Purpose of SMR is to allow natural ecosystem function in key portion of subregion. (G1, O5) Include portion of unique tidal, subtidal, benthic & pelagic habitat of Farallones (G 4, O1) Further objectives of reserve are to protect natural diversity & structure (G1, O1) & function of unique marine ecosystem, increase rockfish larval production (G2, O1, O2), help assure continued recovery of ground fish (G2, O1), enhance reproductive success of seabirds & marine mammals using islands (G2, O3), & increase supply of large adults & larval fish which can disperse to adjacent areas for fisheries harvest outside MPA (G3 O2) Protects globally significant biological site.</p>			<p>In creating an SMR around South East Farallon Island it is understood that this designation might be reconsidered by a future Commission to change the designation to an SMCA allowing commercial abalone harvest as part of the Abalone Recovery Plan process.</p>

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Southeast Farallon Islands SMCA	SMCA	aa15	North boundary: 37 42.5'N South boundary: state waters line West boundary: state waters line East boundary: 122 59.5N The SE. Farallon SMR is in the Northeast quadrant of the SMCA	All take of living marine resources is prohibited EXCEPT recreational and commercial salmon trolling	High	G1O1, G1O2, G1O3, G1O4, G1O5, G2O2, G2O3, G2O4, G3O1, G3O2, G3O3, G4O1, G4O2, G5O2, G5O3, G6O1, G6O2 Considers all design criteria

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MPA Name	MPA Specific Objectives	DFG Feasibility Guidance: Justification if MPA does not follow guidance	SAT Guidelines: Justification if MPA does not meet guidelines	Other Comments/Clarification
Southeast Farallon Islands SMCA	Protects deeper habitats SE of Farallon Islands. Area connects with drop to deep habitat to SW of islands. Protect benthic habitat & forage base for fish, birds & mammals at islands, while allowing salmon trolling G101, G102, G105, G203, G204, G302, G401, G501 Improves fish productivity in SMR to benefit local rockfish fishing outside MPA (G3 O2) <ul style="list-style-type: none"> • Protect nearshore reef species & habitats on which they depend while allowing commercial and/or recreational harvest of migratory, highly mobile, or other species where appropriate through use of a SMCA. (G204) 			

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Consideration of Marine Bird and Mammal Protection: Within this MPA proposal, certain areas may warrant increased protection of marine birds and/or marine mammals though the use of "no disturbance" zones or special closures. Note that the shoreside boundary is the mean high tide line and the seaward boundary is measured from mean low low water.

Area	GIS ID	Boundaries	Focus Species	Seasonality (Year round or what season)	Comments, Questions or Important Information
Point Reyes	5	1000 ft	Nine nesting seabird species, more than 43,000 birds. Largest and most species diverse seabird colony on the mainland in the entire NCCSR subregion. Common murre, pelagic cormorants, Brandt's cormorants, pigeon guillemots, western gulls, rhinoceros auklets, ashly storm-petrels, roosting brown pelicans (>100 pelicans). Bird colonies from tip of Chimney Rock to west of the lighthouse. Elephant seal rookery. Whole headland is important.	Year round	Highest mainland priority due to size of seabird colonies & marine mammal diversity. Proposal 1-3 has SMR in this location which limits socioeconomic impact of special closure to fishermen. Seabird monitoring already being conducted by USFWS. Safe navigation concern for rounding Point Reyes Headland on west side during stormy conditions. Use existing SMCA boundary but with West edge cut straight south at 123 01 to accommodate safe passage around point. Eastern boundary should be east-west to incorporate Chimney Rock & provide buffer around it.
Point Resistance	2	500 ft	Large common murre colony on rock from waterline up to peak of rock. Currently 4 nesting seabird species with 7 historically (pre-1989). Cormorants in cove and pigeon guillemots in caves. More than 100 roosting brown pelicans.	Year round	Limits potential flushing, get to higher level of protection. People access beach here by going off-trail in Pt Reyes National Seashore so would need signage. Line would be drawn from mean low low water (not affect any landward trail). Make it 500 ft, centered on rock.
Stormy Stack	9	300 ft	About 700-1000 harbor seals in haul-out & breed along beach; California sea lions haul out on islets. Stormy Stack/Double Pt is 2nd largest breeding colony in subregion with 16,000 breeding birds, almost entirely Murre on Stormy Stack. Murre, Brandt's cormorants, pelagic cormorants, pigeon guillemots, & Ashly storm petrels. Roosting brown pelicans (>100 pelicans).	Year round	A priority mainland closure due to number and diversity of breeding birds plus harbor seal colony. Protect against flushing (boats from surfers). Seabird monitoring already being conducted by USFWS.
Egg Rock (Devil's Slide Rock)	12	1000 ft circle	Common murre & Brandt's cormorant colony on Devil's Slide, or "Egg", Rock. Pigeon guillemots, pelagic cormorants, western gulls & black oystercatcher colonies extend south along mainland to Gray Whale Beach. Roosting brown pelicans on rock & mainland (>100 pelicans).	Year round	A priority because this is site of multi-million dollar and multi-year common murre restoration project managed by USFWS.

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Bean Hollow	14	300 ft	Harbor seal rookery and haul out	Seasonal: Feb thru Aug	Present harbor seal population & use as a rookery site being limited by low persistent disturbance especially by shore fishing, kayak angling & walking on rocky intertidal. Marine mammal guidelines suggest 300 ft. buffers. Rookery close to bluff provides great educational & recreation (wildlife viewing, photography) benefit. Move up 100 yards further north in southern boundary.
North Farallon Islands	1	1000 ft 300 ft closure around North Island and Isle of St. James	Important Steller sea lion haul out on N. Farallon Island. More than 72,000 nesting seabirds in the island cluster including Isle of St. James. common murre, pelagic cormorants, Brandt's cormorants, pigeon guillemots, western gulls, Cassin's auklets	Year round	Very high priority due to threatened Steller Sea Lion & seabird use. Proposal 1-3 has SMR in this location which means that special closure does not add much socioeconomic impact for fishermen. 1000 ft around N island protects Steller's sea lions but 300 ft around other islands allows for a wider transit zone between N. Island & Isle of St. James.
Southeast Farallon Island	18	300 ft (per GFNMS option)	Steller sea lions haul out & rookery on West End Island & formerly on SE Farallon and Saddle Rock; Northern fur seals breed on West End, Northern elephant seals breed on both islands, California sea lions haul out on both islands. More than 180,000 seabirds. Nesting seabirds include common murre, pelagic cormorants, Brandt's	Year round	Highest priority special closure due to the largest breeding bird colonies and diverse marine mammal use. Proposal 1-3 SMR in this location which means that a special closure does not add much socioeconomic impact for fishermen. Include existing noise abatement and speed limit regs. 300 ft around except Fishermen's Bay and East Landing to retain access to anchorages

*SMCA = state marine conservation area SMP = state marine park SMR = state marine reserve SMRMA = state marine recreational management area
GFNMS = Gulf of the Farallones National Marine Sanctuary USFWS = U.S. Fish and Wildlife Service PRBO = PRBO Conservation Science*

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Consideration of Existing State MPAs in Proposal 1-3 (March 19 version). An identification of whether each existing north central coast marine protected area is proposed to be retained, modified or removed.

Existing MPA	Retain (no changes to boundaries or regulations)	Modify (included with boundary or regulation change)	Remove (not included)
Manchester and Arena Rock State Marine Conservation Area		MODIFY* (A small portion of this MPA is included within the Point Arena SMR/SMCA MPAs.)	
Del Mar Landing State Marine Park		MODIFY (Adjusted boundaries to meet DFG guidance, regulations were not changed)	
Salt Point State Marine Conservation Area			REMOVE. California State Parks requested new design for marine park, but it was not selected in this round. Previous rounds did include a state marine park in proposals 1 and 3.
Gerstle Cove State Marine Conservation Area		MODIFY (Same boundaries with SMR designation)	
Fort Ross State Marine Conservation Area			REMOVE
Sonoma Coast State Marine Conservation Area		MODIFY (A portion included in Bodega Head SMR)	
Bodega Head State Marine Reserve		MODIFY (Replaced by Bodega Head SMR/ mod-high SMCA complex with new boundaries)	
Tomales Bay State Marine Park			REMOVE
Point Reyes State Marine Conservation Area		MODIFY (Replaced by Pt. Reyes SMR/ moderate-high SMCA complex with new boundaries)	
Estero de Limantour State Marine Conservation Area		MODIFY (Replaced by Drakes and Limantour Estero SMR/ Drakes Estero SMCA complex with new boundaries)	
Duxbury Reef State Marine Conservation Area		MODIFY (Replaced by Duxbury SMCA with new boundaries and regs. Raised LOP to moderate)	
James V. Fitzgerald State Marine Park		MODIFY (Replaced by Montara moderate SMCA/ Fitzgerald SMR complex with new boundaries)	
Farallon Islands State Marine Conservation Area		MODIFY (Replaced by North Farallon SMR and Southeast Farallon SMR/high SMCA complex with new boundaries)	

SMCA= state marine conservation area SMP= state marine park SMR= state marine reserve LOP= level of protection

* Text submitted by proponents indicates that this MPA has been removed, but for consistency with other proposals staff have changed to "modify"