# California MLPA North Central Coast Project
# Integrated Preferred Alternative Marine Protected Area (MPA) Proposal
# (adopted by the MLPA Blue Ribbon Task Force on April 23, 2008)
***Revised May 27, 2008***

**Name: Integrated Preferred Alternative (April 23, 2008)**

**Number / types of MPAs:** __11__ SMR __2__ SMP __9__ SMCA __22__ Total # MPAs

**Number / types of other closures:** __2__ SMRMA __6__ Special closures

*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 |
|---|---|---|---|---|---|---|
| **Point Arena SMR** | SMR | aa20 | North boundary: N 38 59<br>South boundary: N 38 56.4<br>West boundary: W 123 46<br>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<br>G201, G202, G203,<br>G301, G302, G303,<br>G501, G503<br>Meets all design considerations |
| **Point Arena SMCA** | SMCA | aa1 | North boundary: N 38 59<br>South boundary: N 38 56.4<br>West boundary: State waters<br>East boundary: W123'46 | All take is prohibited, EXCEPT recreational and commercial salmon trolling | High | G102, G103, G104,<br>G201, G202, G203, G204,<br>G301, G302,<br>G501, G503<br>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. 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). G102, G103, G201 and G202<br>• 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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| **Sea Lion Cove SMCA** | SMCA | DD46 | North boundary:38. 56.4'N. lat;<br>South boundary: 38. 55.79'N. lat (visible landmark is northern tip of Point located at 38. 58.79' by 123. 43.76')<br>West boundary: 123. 44'W. long;<br>East boundary: Mean high tide line. | Commercial and recreational take of invertebrates (including abalone), algae and other plants is prohibited. Take of all other species is allowed. | Mod-low | G201, G2O3,<br>G3O1, G302, G303 |
| **Saunders Reef SMCA** | SMCA | RQ1 | North boundary: 38° 51.8' N.;<br>South boundary: 38° 50' N lat (near Sail Rock);<br>West boundary: Three nautical mile offshore boundary (state waters line);<br>East boundary: Mean high tide line. | Take of all living marine resources is prohibited EXCEPT the commercial and recreational take of salmon by trolling and the commercial take of urchin . | Mod-low | G201, G2O2, G2O3, G204, G501 |
| **Del Mar Landing SMR** | SMR | DD8 | North boundary: Mean high tide line;<br>South boundary: 38° 44.2'N. lat;<br>West boundary: 123 31'W. long;<br>East boundary: 123 30.3'W long. | Take of all living marine resources is prohibited | Very High | G2O3,<br>G3O1, G302, G3O3 |
| **Stewarts Point SMR** | SMR | RQ2 | North boundary: 38° 40.5' N. lat;<br>South boundary:38° 35.6' N. lat; (moved boundary up 0.7 mile)<br>West boundary: Three nautical mile offshore boundary (state waters line);<br>East boundary: Mean high tide line | Take of all living marine resources is prohibited | Very High | G1O1, G1O2, G1O3, G1O4, G1O5,<br>G201, G2O2, G2O3,<br>G302,<br>G5O3 |

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| **Sea Lion Cove SMCA** | Contributes to the protection of vulnerable abalone populations and intertidal ecosystem. Creates opportunities for education and enjoyment related to intertidal areas and invertebrate communities in an unusually scenic spot. | | This MPA's regulations were designed intentionally to provide protection for vulnerable intertidal habitat, abalone nursery and invertebrates communities, in an area heavily impacted by recent opening of access. | We are trying to address concerns about rapid decline of vulnerable abalone and benthic invertebrate communities, while minimizing impacts on port. The boundaries were rearranged to enhance enforceability (which expanded the area) and proposed regulations were changed to an SMCA to allow fishing from shore and by boat. Adjacent SMR, SMCA, and open areas near shore provide opportunity to research comparative benefits of full protection, partial protection and no protection. |
| **Saunders Reef SMCA** | Protects complex and highly productive rocky reef and kelp habitat including part of an extensive stand of bull kelp, and associated species, including nearshore finfish and multiple abalone species. Protects deeper sand and rock habitat in a regional center of high productivity. | Moved southern boundary up to whole minute line, the preferred lat/long coordinates for feasibility. Merged cluster into a single SMCA, also to improve feasibility. | | Keeps open commercial urchin fishing at Saunders (important to Pt. Arena Harbor), fishing & diving areas north and south of Haven's Neck for abalone divers, shore fishermen, and small boats launched from Anchor Bay. Moved southern boundary up to whole minute line based on input from Anchor Bay and other local property owners. |
| **Del Mar Landing SMR** | Protects community of marine species and their habitat. Provides greater ecosystem protection at an existing MPA originally established as an "ecological reserve." | Changed boundaries (increased area) in response to the Department's recommendations and to improve enforceability. | | Existing MPA is modified with more enforceable boundaries and regulations of an SMR. |
| **Stewarts Point SMR** | Provides the highest protection to complex rocky habitat and kelp (including coves, wash rocks, shelves, walls, cobble and boulders), dependent communities and ecosystem functions within a preferred-size SMR. Includes area with a relatively steep depth gradient. Portion sited adjacent to Salt Point State Park provides opportunity for continuous land-sea protection and management of scenic area for natural heritage purposes. | By moving southern boundary up to the lat line just above Stump Beach, eliminated any impact on abalone index site near Salt Point. | | Moved the north boundary south to reduce impacts on fishing and consumptive diving from public access points and private lands. Moved south boundary up to stump beach to reduce potential impacts on two additional public access points. |

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| **Salt Point SMP** | SMP | RQ3 | North boundary: 38° 35.6' N. lat;<br>South boundary: 38° 33'N. lat;<br>West boundary: 123° 21'W. long;<br>East boundary: Mean high tide line.<br>Modification of existing MPA boundaries. Abuts Stewarts Point SMR in the north. | Take of all living marine resources is prohibited EXCEPT only the following species may be taken recreationally: abalone and finfish only. | Moderate-low | G3O1, G302,<br>G501 |
| **Gerstle Cove SMR** | SMR | aa26 | Existing Gerstle Cove SMCA boundaries. | Take of all living marine resources is prohibited | Very High | G101, G103, G103<br>G201, G202<br>G301, G302,<br>G501, |
| **Russian River SMR** | SMR | aa24 | North boundary: mean high tide<br>South boundary: mean high tide<br>West boundary: W 123 7.8<br>East boundary: W 123 06<br>In Estuary | All take is prohibited. | Very High | G1O5,<br>G201,<br>G3O1, G3O2, G3O3,<br>G4O1,<br>Considers all design criteria |
| **Russian River SMCA** | SMCA | aa4 | North boundary: mean high tide<br>South boundary: line from goat rock at approx N 38 26.35<br>West boundary: W 123 8.5<br>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 | G3O1, G3O2, G3O3,<br>G4O1<br>Considers all design criteria |

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| **Salt Point SMP** | Enhance recreational experience via proximity to Stewarts Point and Gerstle Cove SMRs. | Salt Point SMP/Gerstle Cove SMR creates a donut shape, but feasibility is enhanced by the fact that area proposed as Gerstle Cove SMR is a well-established and well-marked MPA. | | Modifies the boundaries of an existing MPA to enhance enforceability. |
| **Gerstle Cove SMR** | Protects intertidal habitat in an existing MPA that appears to be working for resident species, including abalone.<br>Enhances biodiversity protection from existing MPA via proximity to Rocky Pt -Horseshoe Pt. SMR. G1O1)<br>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.<br>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. | |

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| **Bodega Head SMR** | SMR | XX3 | This area is bounded by the mean high tide line and straight lines connecting the following points in the order listed except where noted: 38 20.1' N. lat. 123 4.04' W. long.; 38 20.1' N. lat. 123 8.38' W. long.; thence southward along the three nautical mile offshore boundary to 38 18.0' N. lat. 123 8.08' W. long.; and 38 18.0' N. lat. 123 3.64' W. long. | All take of living marine resources is prohibited | Very High | G1-O1, G1-O2, G1-O3, G1-O5, G2-O1, G2-O2, G2-O3, G3-O1, G3-O2, G3-O3, G3-O4, G5-01, G5-O3 |
| **Bodega Head SMR (continued)** | SMR | XX3 | | | | |

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| **Bodega Head SMR** | Ex of species most likely to benefit: nearshore, shelf & deeper nearshore rockfishes, lingcod, cabezon, kelp greenling, surfperches, kelp, Dungeness crab, murres, guillemots, cormorants, auklets, halibut, harbor seals, sealions, sharks, mussels, rays, forage fishes, invertebrates & algae.<br>1) Protect area of high benthic species diversity & maintain species diversity & abundance characteristic of north central coast region north of Point Reyes (G1-O1).<br>2) Monitor appropriate indicator species with focus on Nearshore & Deeper Nearshore Fishery Management Plan species (G1-O5).<br>3) Protect natural trophic structure & food webs, including prey for other fish, marine birds & marine mammals.<br>4) Provide protection to area that contains one of most persistent & important upwelling plumes along entire California Coast & provides for significant down stream larval dispersal (G1-O5).<br>5) Help restore depleted species, such as near shore & deeper nearshore species (G2-O1).<br>6) Protect larval sources & enhance reproductive capacity of shelf species including rockfishes (G2-O2). | Followed DFG Feasibility guidelines by using at least 1/10-minute resolution for all boundaries. | MPA meets SAT guidelines at the Very High level of protection. | This MPA is part of a MPA cluster designed with the specific purpose of providing scientific comparative analysis across a range of depths and habitats, within the same reef complex, using no-take State Marine Reserves, limited-take State Marine Conservation Areas, and areas without MPA designation. |
| **Bodega Head SMR (continued)** | 7) Protect area with diverse habitats & associated species including kelp forest ecosystems.<br>8) Protect natural heritage location while minimizing socioeconomic impacts to local communities (G5-O1).<br>9) Protect forage base for colonies of marine mammals & sea birds as well as protect colonies from disturbance.<br>10) Provide comparison analysis environment by providing SMR adjacent to SMCA across range of depths & fully accessible area within single reef complex in close proximity to Bodega Bay Marine Lab (G1-O2, G3-O1). | | | |

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| **Bodega Head SMCA** | SMCA | XX7 | This area is bounded by the mean high tide line and straight lines connecting the following points in the order listed except where noted: 38 18.0' N. lat. 123 3.64' W. long. at the intersection of mean high tide); 38 18.0' N. lat. 123 8.08' W. long.; thence southward along the three nautical mile offshore boundary to 38 13.35' N. lat. 123 3.44' W. long; and 38 17.93' N. lat. 123 3.49' W. long. | All take of living marine resources is prohibited except: 1). Only the following species may be taken commercially: pelagic finfish (including salmonids) by troll or pelagic seine, Dungeness crab by traps, market squid by pelagic seine, in accordance with state regulations. 2). Only the following species may be taken recreationally: pelagic finfish (including salmonids) by troll or pelagic seine, Dungeness crab by traps, and market squid by pelagic seine, in accordance with state regulations. | Mod-high | G1-O2, G1-O3, G2-O1, G2-O2, G2-O3, G2-O4, G3-O1, G3-O2, G3-O3, G3-O4, G5-O1, G5-O3 |
| **Bodega Head SMCA (continued)** | SMCA | XX7 | | | | |
| **Estero Americano SMRMA** | SMRMA | JD13 | This area consists of waters below mean high tide within Estero Americano lying east of the Pacific Ocean and west of longitude 122 59.2' W | All take of living marine resources is prohibited except recreational hunting of waterfowl is allowed unless otherwise restricted by hunting regulations (sections 502, 550, 551, and 552). | Very High | G1-01, G1-03, G1-04, G2-02, G2-03, G3-03, G4-01 |

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| **Bodega Head SMCA** | Ex of species most likely to benefit: nearshore, shelf & deeper nearshore rockfishes, lingcod, cabezon, kelp greenling, surfperches, kelp, murres, guillemots, cormorants, auklets, halibut, harbor seals, sealions, sharks, mussels, rays, forage fishes, invertebrates (except Dungeness crab) & algae.<br>1) Minimize effect of fishing on area of high benthic species diversity characteristic of north central coast region north of Point Reyes while allowing specific recreational and commercial harvest. (G5-O1).<br>2) Protect natural trophic structure & food webs, including prey for other fish, marine birds & marine mammals.<br>3) Help restore depleted species, such as near shore and deeper nearshore species (G2-O1).<br>4) Protect larval sources & enhance reproductive capacity of shelf species including rockfishes (G2-O2).<br>5) Protect area with diverse habitats and associated species including kelp forest ecosystems.<br>6) Protect natural heritage location while minimizing socioeconomic impacts to local communities (G5-O1). | Followed DFG Feasibility guidelines by using at least 1/10-minute resolution for all boundaries. | MPA was intentionally designed to meet Moderate-High level of protection. MPA is part of cluster designed with specific purpose of providing scientific comparative analysis across range of depths & habitats, within same reef complex, using no-take SMRs, limited-take SMCAs, & areas without MPA designation.<br>SMCA is also one of three critical salmon & crab locations for recreational & commercial users. Specifically, SMCA provides safe access to small-boat users originating from Bodega Harbor & Tomales Bay due to proximity just outside of these access points. | This area is an important fishing location located close to a major harbor that allows safe access for small boats including human powered vessels. MPA cluster is designed to meet a “Moderate-High” Level of Protection. Any species found in the definition of “pelagic finfish” should also meet the “Moderate-High” level of protection. Should allowing harvest of some species not meet this level of protection, it is intended that harvest of those species would not be allowed in this MPA. |
| **Bodega Head SMCA (continued)** | 7) Provide comparison analysis environment by providing SMCA adjacent to SMR across a range of depths and fully accessible area within single reef complex in close proximity of Bodega Bay Marine Lab (G1-O2, G3-O1, O3).<br>8) Protect one of rare hard bottom reef complexes in NCCSR that extend from shore seaward to state water boundary. | | Primary fisheries are troll salmon & Dungeness crab. For safety reasons it is extremely important that these sustainable & non-conflicting uses be allowed to continue in this SMCA. | |
| **Estero Americano SMRMA** | Ex of species most likely to benefit: Significant seabird aggregations, striped bass, starry flounder, gobies eelgrass, ghost shrimp, mud shrimp, & brackish water clams<br>1) Protect species diversity and abundance, trophic structure & food webs, natural age structure & genetic diversity in representative habitats (G1-O1,O3,O4)<br>2) Sustain or increase reproduction of species by protecting & retaining large individuals & protecting breeding, foraging, rearing & nursery areas (G2-O2,O3)<br>3) Enhance scientific validity with similar habitat replicated in close proximity (G3-O3) | | | Waterfowl hunting under existing regulations not expected to be impacted by the designation of this area as a State Marine Recreational Management Area. |

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| **Estero de San Antonio SMRMA** | SMRMA | JD14 | This area consists of waters below mean high tide within Estero de San Antonio lying east of the Pacific Ocean and west of longitude 122 57.4' W | All take of living marine resources is prohibited except recreational hunting of waterfowl is allowed unless otherwise restricted by hunting regulations (sections 502, 550, 551, and 552). | Very High | G1-01, G1-03, G1-04,<br>G2-02, G2-03,<br>G3-03,<br>G4-01 |
| **Point Reyes SMR** | SMR | aa27 | Northwest boundary: N 37 59.9<br>West boundary: W 123 02<br>East boundary: Diagonal line anchored at: W 122 57.4, N 37 59, extending to shore at: 122 55, 38 01.7.<br>South Boundary: N 37 59 | All take is prohibited | Very High | G101, G102, G103, G104, G105,<br>G201, G202, G203,<br>G301, G302,<br>G503,<br>Meets all design considerations |
| **Point Reyes SMCA** | SMCA | aa7 | North boundary: N 37 59<br>South boundary: state waters<br>West boundary: W 123 02<br>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 | G102, G103,<br>G201, G202, G203, G204<br>G301, G302,<br>G503<br>Meets all design considerations |

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| **Estero de San Antonio SMRMA** | Ex of species most likely to benefit: Significant seabird aggregations, striped bass, starry flounder, gobies eelgrass, ghost shrimp, mud shrimp, & brackish water clams.<br>1) Protect species diversity & abundance, trophic structure and food webs, natural age structure & genetic diversity in representative habitats (G1-O1,O3,O4).<br>2) Sustain or increase reproduction of species by protecting & retaining large individuals & protecting breeding, foraging, rearing & nursery areas (G2-O2,O3)<br>3) Enhance scientific validity with similar habitat replicated in close proximity (G3-O3). | | | Waterfowl hunting under existing regulations not expected to be impacted by the designation of this area as a state marine recreational management area. |
| **Point Reyes SMR** | 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.<br>Protects natural tropic & natural ecosystem structure & function with minimal human-induced changes. (G1, O4 and O5)<br>Protects larval retention zone of regional import for many fish & invertebrate species. (G2, O2)<br>Reduces disturbances to major mainland seabird colonies & elephant seal rookeries within study region. (G2, O3)<br>Preserves an iconic place. (G3, O1)<br>Include areas with diverse habitat types within one MPA cluster. (G1, O2). Leverage National seashore for monitoring, enforcement & education. (Design guidelines 6 & 9). | 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. | | |
| **Point Reyes SMCA** | SMCA extends protection offshore to state boundary for diverse fish, seabird & marine mammal species in deeper hard & soft bottom. G102, G301, G503<br>• 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. | | 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. | |

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| **Estero de Limantour SMR** | SMR | aa9 | North boundary: N 38 02.66 in the Drakes arm and mean high tide line in Limantour arm.<br>South boundary: mouth of the estuary<br>West boundary: mean high tide<br>East boundary: mean high tide | All take is prohibited. | Very High | G101, G103, G104, G105,<br>G201, G202, G203,<br>G301, G303,<br>G401,<br>G503<br>Meets all design considerations |
| **Drakes Estero SMCA** | SMCA | aa8 | North boundary: mean high tide<br>South boundary: N 38 02.66<br>West boundary: mean high tide<br>East boundary: mean high tide | All take is prohibited, EXCEPT shellfish mariculture and recreational clamming. If at any time, it becomes feasible to create an SMR at Drakes Estero, this proposal recommends doing so. | Low | G103,<br>G201, G202, G203,<br>G301, G303,<br>G401,<br>G503 |
| **Duxbury SMP** | SMP | EX1 | This area is bounded by the mean high tide line, a distance of 1000 feet offshore and the following points: 37° 55.52' N. lat. 122° 44.17' W. long.; 37° 55.42' N. lat. 122° 44.31' W. long.; 37° 53.65' N. lat. 122° 41.91' W. long.; and 37° 53.77' N. lat. 122° 42.02' W. long. | Take of all living marine resources is prohibited except: 1) Only the following species may be taken recreationally: finfish from shore and abalone. | Moderate | G2-O4,<br>G3-O1 |

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| **Estero de Limantour SMR** | Expands on long-term protections of Limantour Estero for complex estuarine habitats & dependent species, including eelgrass beds & mudflat ecosystems. (G1O1, G1O4, G1O5, G2O3, G4O1)<br>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)<br>Significant nursery area for Dungeness crab, & numerous rockfish & flatfish species. (G2O3)<br>Essential habitat for Black Brandt geese & a key foraging area for shorebirds, coastal waterfowl & brown pelicans. (G2O3)<br>In designated federal wilderness area (G1O1, G3O2)<br>Leverage National seashore for monitoring, enforcement & education. (Design guidelines 6 and 9).<br>Supports current NPS coho salmon & steelhead trout migration habitat restoration projects on multiple tributaries. (G2O1)<br>Protect major harbor seal pupping & haul-out sites. (G2O3) | | | |
| **Drakes Estero SMCA** | Protects estuarine habitats while allowing existing aquaculture activities as well as recreational clamming to continue. | | | Allowing clamming may lead to harbor seal disturbance - be managed thru education and docents |
| **Duxbury SMP** | Ex of species most likely to benefit include mussels and other invertebrates and algae.<br>1) Protect species while allowing traditional recreational access (G2-O4).<br>2) Protect an area of important marine natural heritage. | | Not intended to meet SAT guidelines for size and spacing. | It is the intention of this proposal to accept the guidance provided by the Dept. feasibility criteria for this MPA realizing that removal is the best solution. |

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| MPA Name | Type | GIS ID# | Exact MPA Boundaries[1] | Proposed Regulations | SAT Assigned Level of Protection | Regional Goals/ Objectives |
|---|---|---|---|---|---|---|
| **Montara SMR** | SMR | RQ7 | North boundary: 37° 32.7'N (Montara State Beach)<br>South boundary: 37° 30'N<br>West boundary: state waters line<br>East boundary: mean high tide line | All take of living marine resources is prohibited | Very High | G1-O1, G1-O2, G1-O3, G1-O4, G1-O5,<br>G2-O1, G2-O2, G2-O3,<br>G3-O1, G3-O2, G3-O3, G3-O4,<br>G5-01, G5-O3 |
| **Montara SMR (continued)** | SMR | RQ7 | | | | |

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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 SMR** | Ex of species most likely to benefit: nearshore, shelf and deeper nearshore rockfishes, lingcod, cabezon, kelp greenling, surfperches, prickleback eel, kelp, Dungeness crab, red crab, halibut, harbor seals, sharks, mussels, abalone, rays, forage fishes, invertebrates & algae, & other intertidal invertebrates.<br>1) Protect area of high benthic species diversity & maintain species diversity & abundance characteristic of north central coast region north of Point Reyes (G1-O1).<br>2) Monitor appropriate indicator species with focus on Nearshore and Deeper Nearshore Fishery Management Plan species (G1-O5).<br>3) Protect natural trophic structure & food webs, including species that serve as prey for other fish, marine birds & marine mammals (G1-O4).<br>4) Enhance non-consumptive recreational & educational experiences by protecting intertidal ecosystems by reducing congestion & increasing size & abundance of species most likely to benefit from MPAs (G3-O2).<br>5) Help restore depleted species, such as near shore & deeper nearshore species (G2-O1). | Followed DFG Feasibility guidelines by using at least 1/10-minute resolution for all boundaries. | MPA meets SAT guidelines at the Very High level of protection and exceeds the minimum size guideline. | This MPA is part of a MPA cluster designed with the specific purpose of providing scientific comparative analysis across a range of depths and habitats, within the same reef complex, using no-take SMRs, limited-take SMCAs, and areas without MPA designation.<br>The northern boundary of the SMR bisects Montara State Beach in an effort to provide consumptive and non-consumptive shore access. |
| **Montara SMR (continued)** | 6) Protect larval sources & enhance reproductive capacity of shelf species including rockfishes (G2-O2).<br>7) Protect area with diverse habitats and associated species including kelp forest ecosystems (G1-O2).<br>8) Protect natural heritage location while minimizing socioeconomic impacts to local communities (G5-O1).<br>9) Protect forage base for colonies of marine mammals as well as protect colonies from disturbance (G1-O5).<br>10) Provide comparison analysis environment by providing SMR adjacent to SMCA across range of depths. | | | |

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|---|---|---|---|---|---|---|
| **Pillar Point SMCA** | SMCA | RQ8 | North boundary: 37° 30'N<br>South boundary: 37° 28.3'N<br>West boundary: state waters line<br>East boundary: mean high tide line | All take of living marine resources is prohibited except: 1). Only the following species may be taken commercially: pelagic finfish (including salmonids) by troll or pelagic seine, Dungeness crab by trap, market squid by pelagic seine, in accordance with state regulations. 2). Only the following species may be taken recreationally: pelagic finfish (including salmonids) by troll or pelagic seine, Dungeness crab by trap, market squid by pelagic seine, in accordance with state regulations. | Mod-high | G1-O2, G1-O3,<br>G2-O1, G2-O2, G2-O3, G2-O4,<br>G3-O1, G3-O2, G3-O3, G3-O4,<br>G5-O1,G5-O3 |
| **Pillar Point SMCA (continued)** | SMCA | RQ8 | | | | |
| **North Farallon Islands SMR** | SMR | aa13 | North boundary: state waters line<br>South boundary: 37° 45.7'N<br>West boundary: 123° 07'W<br>East boundary: state waters line | All take of living marine resources is prohibited | Very High | G101, G102, G103, G104, G105,<br>G201, G202, G203,<br>G301, G302, G303,<br>G401,<br>G501, G503<br>Meets all design considerations |

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|---|---|---|---|---|
| **Pillar Point SMCA** | Ex of species most likely to benefit: nearshore, shelf & deeper nearshore rockfishes, lingcod, cabezon, kelp greenling, surfperches, prickleback eel, kelp, red crab, halibut, harbor seals, sharks, abalone, rays, forage fishes, invertebrates (except Dungeness crab) & algae.<br>1) Enhance non-consumptive recreational & educational experiences by protecting intertidal ecosystems by reducing congestion & increasing size & abundance of species most likely to benefit from MPAs (G3-O2).<br>2) Help restore depleted species, such as near shore & deeper nearshore species (G2-O1).<br>3) Protect larval sources & enhance reproductive capacity of shelf species including rockfishes (G2-O2). | Followed DFG Feasibility guidelines by using at least 1/10-minute resolution for all boundaries as well as buoys and prominent landmarks to facilitate ease of enforcement. | This MPA is part of a MPA cluster designed with the specific purpose of providing scientific comparative analysis across a range of depths and habitats, within the same reef complex, using no-take State Marine Reserves, limited-take State Marine Conservation Areas, and areas without MPA designation. | Small boat access was a major driver in the design of this MPA cluster. Small boaters, including human powered vessels, depart from Pillar Point and often spend time fishing for salmon and crab in this area. This design was the only alternative to adequately address safety concerns for a multitude of users dependent on this area to fish for salmon and crab within a safe distance of Pillar Point Harbor. MPA cluster is designed to meet a “Moderate-High” level of protection. |
| **Pillar Point SMCA (continued)** | 4) Protect area with diverse habitats & associated species including kelp forest ecosystems (G1-O2).<br>5) Protect natural heritage location while minimizing socioeconomic impacts to local communities (G5-O1).<br>6) Provide comparison analysis environment by providing SMR adjacent to SMCA across range of depths. | | | Any species found in the definition of “pelagic finfish” should also meet the “Moderate-High” level of protection. Should allowing harvest of some species not meet this level of protection, it is intended that harvest of those species would not be allowed in this MPA. |
| **North Farallon Islands SMR** | Include a portion of unique tidal, subtidal, benthic & pelagic habitat of Farallones. 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, G401 | | | |

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|---|---|---|---|---|---|---|
| **Southeast Farallon Island SMR** | SMR | aa14 | North boundary: 37° 42.6'N<br>South boundary: 37° 40.5'N<br>West boundary: 123° 02'W<br>East boundary: 122° 59.5'N | All take of living marine resources is prohibited | Very High | G1O1, G1O2, G1O3, G1O4, G1O5, G201, G2O2, G2O3, G3O1, G3O2, G3O3, G4O1, G5O3,<br>Considers all design criteria |
| **Southeast Farallon Island SMCA** | SMCA | aa15 | North boundary: 37 42.5'N<br>South boundary: state waters line<br>West boundary: state waters line<br>East boundary: 122 59.5N<br>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 | G1O2, G1O3, G1O4, G2O2, G2O3, G2O4, G3O1, G3O2, G3O3, G4O1, G501, G5O3<br>Considers all design criteria |

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|---|---|---|---|---|
| **Southeast Farallon Island SMR** | 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. | | | 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. |
| **Southeast Farallon Island 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 G102, G203, G204, G302, G401,G501 Improves fish productivity in SMR to benefit local rockfish fishing outside MPA (G3 O2) 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. (G2O4) | | | |

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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 murres, pelagic cormorants, Brandt's cormorants, pigeon guillemots, western gulls, rhinoceros auklets, ashy 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. |
| **Pt. Resistance** | | 300ft. around point | Common murres and brown pelicans. | Year-round | |
| **Stormy Stack** | DD56 | 300 ft. | see special closures notes (Pelican, murres) | Year round | Leaves spaces for safe passage for surfers and boat travel. 2nd largest breeding colony in subregion. |
| **Egg Rock (Devils Slide)** | DD52 | 300 ft around island and no transit in area between rock and mainland | Common murre and Brandt's cormorant colony on Devil's Slide, or "Egg", Rock. Pigeon guillemots, pelagic cormorants, western gulls, and black oystercatcher colonies extend south along mainland to Gray Whale Beach. Roosting brown pelicans on rock and mainland (>100 pelicans). | Year round | 1000 ft around rock but leaving area to south open. Covers transit issue. Year round closure would likely eliminate 91.4% of alarm behaviors & 95.2% of flushing behaviors. Has been identified by Seabird Colony Protection Program as significant seabird breeding area & is site of seabird restoration project. Will nearly eliminate boat disturbance on Devil's Slide (Egg) Rock & benefit birds & nesting areas on mainland cliffs. Recommend buoys be put in to help inform users of special closure. |
| **North Farallons** | DD57 | 1000ft closure around N. Island. 300ft closure around Isle of St. James. | Steller sea lions haul out on N. Farallon. More than 72,000 nesting seabirds including common murres, pelagic cormorants, Brandt's cormorants, pigeon guillemots, western gulls, Cassin's auklets | Year round | Retain existing noise abatement regulations |
| **Southeast Farallon** | DD58 | 300 ft around Southeast Farallon excluding Fisherman's Bay and East Landing. | Stellar sea lions | Year round (except seasonal closure between Fishermen's Bay and East Landing (including Shubrick) & from East Landing to southwest side of Saddle Rock from Dec 1 to Sept 14.) | 300 ft. closure around island, except Fisherman Bay and East Landing (exempted to provide safe harbor). Retain existing noise regulations.<br>Keep open important area during brief season for ecotourism. |

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**Consideration of Existing State MPAs in Integrated Preferred Alternative MPA Proposal, April 23, 2008.** 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** | | | REMOVE |
| **Del Mar Landing State Marine Park** | | MODIFY (Adjusted boundaries to meet DFG guidance, with SMR designation) | |
| **Salt Point State Marine Conservation Area** | | MODIFY (Modified boundaries and regulations, and changed MPA type to a SMP) | |
| **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 SMR/SMCA complex with new boundaries) | |
| **Tomales Bay State Marine Park** | | | REMOVE |
| **Point Reyes State Marine Conservation Area** | | MODIFY (Replaced by Pt. Reyes SMR/SMCA complex with new boundaries) | |
| **Estero de Limantour State Marine Conservation Area** | | MODIFY (Replaced by Drakes Estero SMR/SMCA complex with new boundaries) | |
| **Duxbury Reef State Marine Conservation Area** | | MODIFY (Replaced by Duxbury SMP) | |
| **James V. Fitzgerald State Marine Park** | | MODIFY (Replaced by Montara SMR/ Pillar Point SMCA complex with new boundaries) | |
| **Farallon Islands State Marine Conservation Area** | | MODIFY (Replaced by North Farallon Islands SMR and Southeast Farallon Island SMR/SMCA complex with new boundaries) | |

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