February 1, 2010

Mr. Ken Wiseman
Executive Director
Marine Life Protection Act Initiative
1416 Ninth Street, Suite 1311
Sacramento, CA 95814

Re: Submittal of the North Coast Local Interest Marine Protected Area (MPA) Work Group MPA Array Proposal.

Dear Mr. Wiseman,

The North Coast Local Interest MPA Work Group (Work Group) was formed by a resolution of the Humboldt Bay Harbor District on February 26, 2009. Through a memorandum of agreement; the County of Humboldt, County of Del Norte, City of Fort Bragg, Crescent City Harbor District and Shelter Cove Resort Improvement District are now members of the Work Group, as are numerous individuals from Mendocino, Humboldt and Del Norte Counties. Furthermore, the Bear River Tribe, Round Valley Tribe, Potter Valley Tribe, Trinidad Rancheria, and Resighini Tribe have formalized resolutions establishing partnerships with the Work Group. Other key partners in developing this array included the Mendocino Ocean Community Alliance, Del Norte MPA Workgroup, Trinidad Rancheria and Traditional Fisheries Coalition, Humboldt Area Saltwater Anglers, Open Beaches and Trails Group, Albion Harbor Regional Alliance, and the Humboldt Bay Oyster Growers. We are proud to submit an array which will become an important part of the State's MPA System while minimizing social and economic impacts to our communities.

Sincerely, North Coast Local Interest MPA Work Group

Primary Contacts
Mendocino County: Dr. Jeanine Pfiefer, (707) 962-4560, jmpfeiffer@mindspring.com
Humboldt County: Adam Wagschal, (707) 496-2088, adam@portofhumboldtbay.org
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North Coast Local Interest MPA Work Group
External MPA Array Proposal Narrative

The North Coast Local Interest Marine Protected Area (MPA) Workgroup's external MPA array proposal was collaboratively developed by various interest groups from Del Norte, Humboldt and Mendocino Counties. A series of well attended "Tri-County" meetings were held to facilitate regional communication and to integrate MPA design ideas from 18 external MPA array proposal proponents. We were successful in our effort to engage the entire region and combine ideas to minimize the number of proposals submitted from the North Coast Study Region. The following assumptions were generally agreed upon by the Tri-County Group and are reflected in the North Coast Local Interest MPA proposal:

- Traditional Native American uses of coastal marine resources for ceremonial, customary, and subsistence purposes have occurred for thousands of years and are de minimis;
- MPA designations outside 10 mile "port safety zones" will reduce fuel consumption and hazards to fishermen and limit economic and social impacts to our communities;
- Levels of Protection afforded by fisheries involving smelt, surfperch, coonstripe shrimp and Pacific halibut should be considered "moderate high" or "high";
- Existing resource management regulations are effective;
- Current economic and social systems may be significantly impacted by the MLPA Initiative.

Based upon the above points, it is in the interest of the public to establish a MPA array which meets the goals of the MLPA, but does not pose economic or social risks to our communities. We recognize that the proposed array does not conform fully to existing science advisory guidelines. However, it will contribute substantially to the State's MPA system and Marine Life Protection Act (MLPA) goals, while minimizing impacts to our communities. Scientists and fishermen on the North Coast are eager to conduct research which will provide information regarding the role of MPAs on the North Coast. Improved information will allow for more detailed conservation goals to be developed, which will be pursued through adaptive management.

In our current situation, the precautionary principle applies to the well-being of our already fragile economic and social systems, not our vibrant natural ecosystems. The proposed array will fully implement the goals of the MLPA, while creating ample research opportunities to allow for future MPA adaptive management. As such, the proposed array is an appropriate balance of conservation, economic and social interests and we are confident that the MLPA Initiative will recognize the need for this balance.

February 1, 2010

California Marine Life Protection Act Initiative
MLPA North Coast Study Region: Round 1 Evaluations
Staff Summary of Area and Habitats in External Proposed MPA Array G
Date Created: March 5, 2010

Table 1. Summary of MPAs by Designation for External Proposed MPA Array G

Type of MPA[a]	# of MPAs	Area (mi^2)	% of Study Region
State Marine Reserve (SMR)	7	61.17	6.0%
State Marine Recreational Managed Area (SMRMA)	1	1.84	0.2%
State Marine Park (SMP)	0	0.00	0.0%
State Marine Conservation Area (SMCA)	5	26.24	2.6%
All MPAs combined	13	89.25	8.7%

[a] These are proposed marine protected area (MPA) designations, NOT levels of protection assigned by the MLPA Master Plan Science Advisory Team (SAT). SMRMA is not an MPA designation, but rather a marine managed area designation.

Table 2. Summary of MPAs by Level of Protection for External Proposed MPA Array G

Level of Protection (LOP)	# Proposed	Area (mi^2)	% of Study Region
Very High[b]	8	63.01	6.1%
High	1	0.20	0.0%
Moderate-High	3	25.75	2.5%
Moderate	0	0.00	0.0%
Low[c]	1	0.29	<0.1%
Total	13	89.25	8.7%

[b] The “Very High” category includes MPAs with SMR designation, as well as SMRMA designations.

[c] The “Low” category groups together MPAs that are assigned a moderate-low and low level of protection.

Table 3. Individual MPAs in External Proposed MPA Array G

MPA Name	Size[d] (mi^2)	Alongshore Span[e] (mi)	Depth Range[f] (ft)
Pyramid Point SMR[g]	20.99	4.7	0 - 124
Pyramid Point SMCA[g]	0.20	3.4	0 - 3
Reading Rock SMR[g]	11.38	2.5	90 - 247
Reading Rock SMCA[g]	9.88	3.1	0 - 101
Humboldt Bay SMRMA[g]	1.84	N/A	Depth data not available
Eel River SMCA[g]	13.20	3.7	0 - 120
Punta Gorda SMR[g]	19.36	4.9	0 - 1667
Ten Mile SMR[g]	8.81	2.3	0 - 335
Ten Mile Beach SMCA[g]	2.67	0.7	0 - 288
Ten Mile Estuary SMR[g]	0.19	N/A	Depth data not available
Point Cabrillo SMCA[g]	0.29	0.5	0 - 23
Point Cabrillo SMR[g]	0.30	0.7	0 - 40
Navarro River Estuary SMR[g]	0.14	N/A	Depth data not available

[d] Statue mile is the unit of measurement used for this analysis.

[e] Alongshore span measured as direct line from one end of the MPA to the other, roughly paralleling the coastline. An alongshore span is not calculated for estuarine MPAs

[f] Comprehensive bathymetric data for all estuaries is not available. Though bathymetric data do exist in portions of some estuaries, depth ranges are not provided for estuarine MPAs for consistency in evaluations.

[g] Tribal uses are proposed in this MPA. However, pending further policy guidance, these uses are not currently considered in assigning the level of protection for this MPA.

Table 4. Habitat Representation in External Proposed MPA Array G

	SMR		SMRMA		SMP		SMCA		Total MPAs	
Habitat[h]	Area	%	Area	%	Area	%	Area	%	Area	%
Intertidal										
Sandy or gravel beach*	5.24	3%	0.00	0%	0.00	0%	11.43	6%	16.67	9%
Rocky shores*	10.59	7%	0.28	<1%	0.00	0%	2.16	1%	13.02	8%
Hardened shores*	0.00	0%	0.00	0%	0.00	0%	0.00	0%	0.00	0%
Coastal marsh*	2.94	3%	1.90	2%	0.00	0%	0.00	0%	4.84	5%
Coastal marsh	0.06	2%	0.04	1%	0.00	0%	0.00	0%	0.10	3%
Tidal flats*	0.36	1%	0.98	1%	0.00	0%	0.00	0%	1.34	2%
Seagrass beds										
Humboldt Eelgrass	0.00	0%	0.57	8%	0.00	0%	0.00	0%	0.57	8%
Estuarine										
Estuary	0.33	1%	1.84	4%	0.00	0%	0.00	0%	2.17	5%
Hard bottom										
0-30 meters proxy*[,i]	3.10	6%	0.00	0%	0.00	0%	0.00	0%	3.10	6%
0-30 meters	2.52	6%	0.00	0%	0.00	0%	0.12	<1%	2.64	6%

	SMR		SMRMA		SMP		SMCA		Total MPAs	
Habitat[h]	Area	%	Area	%	Area	%	Area	%	Area	%
30-100 meters	1.66	4%	0.00	0%	0.00	0%	0.00	0%	1.66	4%
100-200 meters	0.23	23%	0.00	0%	0.00	0%	0.00	0%	0.23	23%
>200 meters	0.05	52%	0.00	0%	0.00	0%	0.00	0%	0.05	52%
Soft bottom										
0-30 meters proxy*, [i]	9.46	6%	0.00	0%	0.00	0%	3.84	2%	13.30	8%
0-30 meters	17.85	7%	0.00	0%	0.00	0%	8.76	3%	26.61	11%
30-100 meters	27.75	7%	0.00	0%	0.00	0%	1.97	0%	29.72	7%
100-200 meters	3.06	5%	0.00	0%	0.00	0%	0.00	0%	3.06	5%
>200 meters	2.40	31%	0.00	0%	0.00	0%	0.00	0%	2.40	31%
Unknown										
0-30 meters proxy*, [i]	0.00	0%	0.00	0%	0.00	0%	3.77	20%	3.77	20%
0-30 meters	5.32	3%	1.84	1%	0.00	0%	14.37	9%	21.53	13%
30-100 meters	0.30	1%	0.00	0%	0.00	0%	1.03	4%	1.33	5%
100-200 meters	0.00	0%	0.00	0%	0.00	0%	0.00	0%	0.00	0%
>200 meters	0.02	10%	0.00	0%	0.00	0%	0.00	0%	0.02	10%
Other										
Offshore rocks*	7.22	5%	0.00	0%	0.00	0%	1.25	1%	8.46	6%
Linear kelp*	2.55	5%	0.00	0%	0.00	0%	0.45	1%	2.99	6%

[h] Note:Habitats are measured as an area (mi^2) except for those with a * notation. Habitats with a * notation are expressed in linear units (mi).

[i] There is limited fine scale data for nearshore habitat, shallower than 10-20 meters depth, in the north coast study region. A proxy for this area was created using a line parallel to the coast and classifying the substrate as either hard or soft substrate depending on the dominant habitat type for the 0-30 meter depth zone in that area based on available fine-scale substrate data, shoreline type, kelp abundance, and expert knowledge.

MLPA North Coast Study Region
Round 1- North Coast External Proposed MPA Array G

California Marine Life Protection Act (MLPA) Initiative

0 5 10 20 Nautical Miles
0 5 10 20 Statute Miles
0 5 10 20 Kilometers
N

Projection Information:
Name: NAD 1983 California Teale Albers
Projection: Albers
Datum: North American 1983

Printing Date: February 16, 2010
Created by Marine Map Cartographic Division, UCSB.
For more information, visit http://www.northcoast.marinemap.org/marinemap/

Disclaimer:

This map represents a proposed external marine protected area (MPA) array that has been submitted by a north coast community group or groups for consideration in the MLPA planning process. This external MPA array is under review; it is NOT a recommendation to the California Fish and Game Commission.

California MLPA North Coast Study Region
Description of Marine Protected Areas (MPAs) in Array G
Document Updated March 5, 2010

Name of Array: North Coast External Proposed MPA Array G (ExG)
Author: North Coast Local Interest (NCLI) MPA Workgroup

Bioregions:
Northern: Oregon/California border to Mattole River
Southern: Mattole River to Alder Creek near Point Arena

Total number of MPAs:	**13**
Number of SMRs:	7
Number of SMCAs:	5
Number of SMPs:	0
Number of SMRMAs:	1
Number proposing tribal uses	13

MPA Name	MPA ID	Bioregion	MPA Boundaries (Exact or Approximate)	Designation	Level of Protection*	Propose Tribal Uses?	Proposed Take Regulations	Other Proposed Regulations
Pyramid Point SMR	73897	Northern Bioregion	State waters from the Oregon Border(42 00') southward to rocks immediately south of the Smith River mouth(41 56')(not including the Smith River), from, 42 00.00N/124 12.800W SSE to 41 59.700N/124 12.600W, S to 41 59.400N/ 124 12.600W, SSE to 41 59.200N/124 12.400W, S to 41 57.700N/124 12.400W, SSW to 41 57.700N/124 12.500W, SSW to 41 57.200N/124 12.700W, W to 41 57.200N/124 12.600W, S to 41 57.100N/124 12.600W, W to 41 57.100N/124 12.700W, to 41 57.00N/124 12.600W, SSE to 41 56.900N/124 12.500W, S to 41 56.700N/124 12.500, SSE to 41 56.00N/124 12.600W,41 56.700N/124 12.500 to 41 56.00N/124 12.300.	SMR	Very high	Yes	Take of all living marine resources is prohibited.	Traditional Tribal subsistence, gathering and ceremonial uses should not be regulated in the MLPA Process.

SMCA=state marine conservation area SMP=state marine park SMRMA=state marine recreational management area SMR=state marine reserve TBD=to be determined
** Levels of protection assigned do not take into account proposed Tribal uses.*

California MLPA North Coast Study Region
Description of Marine Protected Areas (MPAs) in Array G
Document Updated March 5, 2010

MPA Name	Regional Goals/Objectives	Site-specific Rationale	Other Considerations
Pyramid Point SMR	N/A	G1,G2,G3,G4,G5,G6: Clustered with Pyramid Point SMCA to protect a diversity of coastal marine species and habitats from the Oregon Border to the Smith River, seaward to federal waters. Includes rocky shore, beach, shallow reef, soft bottom, and kelp habitats, and a large off-shore island (Prince Island), and several off-shore rocks important for sea bird colonies and Aleutian Canada geese. Together the cluster provides 21 square miles of protected forage habitat for pinnipeds and cetaceans.	Provides clear and enforceable boundaries with abundant coastal access and vantage points. Provides nearby vessel access (Port of Brookings, OR) for study and enforcement. Reduces distance from Crescent City to fishing grounds thereby improving safety of Crescent City fishers. Reduces economic impacts to sport and commercial fisheries in California's highest poverty level area.

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Pyramid Point SMCA	73896	Northern Bioregion	From the Oregon Border south, and from the eastern boundary of Pyramid Point SMR shoreward along a line from: 42 00.00N/124 12.800W SSE to 41 59.700N/124 12.600W, S to 41 59.400N/ 124 12.600W, SSE to 41 59.200N/124 12.400W, S to 41 57.700N/124 12.400W, SSW to 41 57.700N/124 12.500W, SSW to 41 57.200N/124 12.700W, W to 41 57.200N/124 12.600W, S to 41 57.100N/124 12.600W, W to 41 57.100N/124 12.700W, to 41 57.00N/124 12.600W, SSE to 41 56.900N/124 12.500W, S to 41 56.700N/124 12.500, SSE to 41 56.00N/124 12.600W.	SMCA	High	Yes	Take of all living marine resources is prohibited.	Native American gathering for ceremonial, customary, and subsistence purposes are allowed. Commerical, sport, or other consumptive uses are not allowed.
Reading Rock SMR	73887	Northern Bioregion	MPA boundaries: North: 41 24.000 minutes to state water lboundary (Extension of inland MPA) then following state water boundary. West: Following state water line South: 41 21.300 minutes North East: 124 08.000 minutes (West boundary of Inland MPA)	SMR	Very high	Yes	Take of all living marine resources is prohibited.	Traditional Tribal subsistence, gathering and ceremonial uses should not be regulated in the MLPA Process.

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MPA Name	Regional Goals/Objectives	Site-specific Rationale	Other Considerations
Pyramid Point SMCA	N/A	G1,G2,G3,G4,G5,G6: The Pyramid Point SMCA is clustered with the Pyramid Point SMR to protect intertidal species and habitats and recognize Native American ceremonial, customary, and subsistence gathering uses along intertidal zones of Tolowa ancestral territory.	Provides easy and efficient enforcement via various public access and vantage points. Native American uses of this area, including beach or nearshore gathering for subsistence and ceremonial purposes, have occurred since time immemorial. Those uses should be considered de minimis. Enforcement officials can maintain lawful gathering by way of Native American card or other official identification.
Reading Rock SMR	N/A	Combined with the Reading Rock SMCA, this reserve protects diverse habitats including beaches, soft and hard bottom habitats. Note that anecdotal accounts indicate more rocky habitat present than is depicted in MarineMap. This will be assessed in the near future. Contributes to goals 1-6 of the MLPA.	Minimizes social and economic impacts while combining with the Reading Rock SMCA to form a 21 square mile MPA cluster which will substantially contribute to the State MPA System.

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MPA Name	MPA ID	Bioregion	MPA Boundaries (Exact or Approximate)	Designation	Level of Protection*	Propose Tribal Uses?	Proposed Take Regulations	Other Proposed Regulations
Reading Rock SMCA	73898	Northern Bioregion	MPA boundaries: North: 41 24.000 minutes (Approximation of parking lot at end of road) West: 124 08.000 minutes (Approximation of 3nm state water boundary) South: 41 21.400 minutes (Approximation of Lagoon and Creek entrance) East: Mean high tide line	SMCA	Moderate high	Yes	The take of all living marine resources is prohibited except: 1. The recreational take of Dungeness crab by hoop net; Dungeness crab by diving; and Dungeness crab by trap. 2. The commercial take of Dungeness crab by trap.	Traditional Tribal subsistence, gathering and ceremonial uses should not be regulated in the MLPA Process. Traditional commercial surf fishing as defined and allowed by H.R. 233 (Northern California Coastal Wild Heritage Wilderness Act) should be allowed. The uses defined by this Act should be assigned a high level of protection by the MLPA Initiative. Staff Note: For Round 1, traditional commercial surf fishing was not taken into consideration when levels of protection were assigned because the LOP for this use conflicted with the stated intentions of array proponents. In future rounds, this proposed activity will be assigned an LOP of moderate in all MPAs where it is allowed.
Humboldt Bay SMRMA	73886	Northern Bioregion	MPA boundaries: These boundaries are all inside Humbolt Bay. North: 40 42.700 minutes West: Mean high tide line South: Mean high tide line East: 124 14.100 minutes (Wilderness area boundary)	SMRMA	Very high	Yes	Take of all living marine resources is prohibited.	Hunting shall be permitted. Traditional Tribal subsistence, gathering and ceremonial uses should not be regulated in the MLPA Process.

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MPA Name	Regional Goals/Objectives	Site-specific Rationale	Other Considerations
Reading Rock SMCA	N/A	Combined with the Reading Rock SMR, this SMCA protects diverse habitats including beaches, soft and hard bottom habitats. Note that anecdotal accounts indicate more rocky habitat than is depicted in MarineMap. This will be assessed in the near future. Contributes to goals 1-6 of the MLPA.	Minimizes social and economic impacts while combining with the Reading Rock SMR to form a 21 square mile MPA cluster which will substantially contribute to the State MPA System.
Humboldt Bay SMRMA	N/A	The MPA contains a significant proportion of Humboldt Bay's eelgrass. The Humboldt Bay Harbor District has an ongoing eelgrass monitoring program in Humboldt Bay and would expand that program to include this MPA if adopted. Comparison of this MPA with other areas would allow for a meaningful comparison of areas where clamming is allowed verses restricted.	The MPA is designed to overlap with portions of the Humboldt Bay National Wildlife Refuge.

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MPA Name	MPA ID	Bioregion	MPA Boundaries (Exact or Approximate)	Designation	Level of Protection*	Propose Tribal Uses?	Proposed Take Regulations	Other Proposed Regulations
Eel River SMCA	73889	Northern Bioregion	MPA boundaries: North: 40 39.000 minutes West: State waters boundary South: 40 36.000 minutes East: Mean high tide line to beach not including any part of the Eel River)	SMCA	Moderate high	Yes	The take of all living marine resources is prohibited except: 1. The recreational take of Dungeness crab by hoop net; Dungeness crab by diving; and Dungeness crab by trap. 2. The commercial take of Dungeness crab by trap.	Traditional Tribal subsistence, gathering and ceremonial uses should not be regulated in the MLPA Process.
Punta Gorda SMR	73888	Northern Bioregion	MPA boundaries: North: 40 20.000 minutes West: State waters boundary South: 40 15.700 minutes (Approximation of visible point and rock in water) East: Mean high tide line to beach not including any part of the Mattole River)	SMR	Very high	Yes	Take of all living marine resources is prohibited.	Traditional Tribal subsistence, gathering and ceremonial uses should not be regulated in the MLPA Process.

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MPA Name	Regional Goals/Objectives	Site-specific Rationale	Other Considerations
Eel River SMCA	N/A	This unique location attracts feed for numerous pinnipeds,porpoise, whales, birds, and fish like salmon. The combination of river mouth with a nearby canyon make this a highly diverse and productive area with lots of krill and small fish present for much of the year.	This SMCA is a little south of the river mouth to better avoid recreational salmon fishing which occurs in this area.
Punta Gorda SMR	N/A	This SMR enlarges an already existing SMR at Punta Gorda continuing to protect natural ecosystem structure and function with minimal human-induced changes. It will maintain high benthic species abundance and biodiversity which is characteristic of the north coast region. Protects natural trophic structure & food webs, including pelagic finfish that serve as prey for other fish, marine birds & marine mammals. Provides protection to an area that contains one of most persistent & important upwelling plumes along entire California Coast & provides for significant downstream larval dispersal. Protects larval sources & enhance reproductive capacity of shelf species including rockfishes. Protects benthic habitat and forage base for fish, birds and mammals at islands. Increases supply of large adults & larval fish which can disperse to adjacent areas for fisheries harvest outside MPAs.	None specified

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MPA Name	MPA ID	Bioregion	MPA Boundaries (Exact or Approximate)	Designation	Level of Protection*	Propose Tribal Uses?	Proposed Take Regulations	Other Proposed Regulations
Ten Mile SMR	73894	Southern Bioregion	Southern Boundary: 39.33.3 Northern boundary: 39.35.2 out to the 3-mile limit	SMR	Very high	Yes	Take of all living marine resources is prohibited.	It is not the intention of the array proponents to prohibit traditional native tribal access, harvest, or uses, or to interfere with their sovereignty on their ancestral lands. Retrieval of recreational and commercial crab traps permitted. Removal of invasive species permitted.
Ten Mile Beach SMCA	73895	Southern Bioregion	39.33.3 northern boundary (first washrock north of the Ten Mile River mouth 39.32.7 southern boundary	SMCA	Moderate high	Yes	The take of all living marine resources is prohibited except: 1. The recreational take of Dungeness crab by trap. 2. The commercial take of Dungeness crab by trap.	No wave energy projects or oil exploration/leases. It is not the intention of the array proponents to prohibit traditional native tribal access, harvest, or uses, or to interfere with their sovereignty on their ancestral lands.
Ten Mile Estuary SMR	73893	Southern Bioregion	Estuary extends from the mouth of Ten Mile River to an area upstream of approximately 1.7 miles.	SMR	Very high	Yes	Take of all living marine resources is prohibited.	No waterfowl hunting. It is not the intention of the array proponents to prohibit traditional native tribal access, harvest, or uses, or to interfere with their sovereignty on their ancestral lands. Retrieval of recreational and commercial crab traps permitted. Removal of invasive species permitted.

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MPA Name	Regional Goals/Objectives	Site-specific Rationale	Other Considerations
Ten Mile SMR	N/A	This SMR helps maintain biodiversity in fish, invertebrates, seabirds and marine mammals associated with the protection of the ecosystem. This MPA has great diversity in unique marine habitats including; exposed high energy rocky shoreline, sand and gravel beaches, offshore islets, surf grass, kelp beds, hard and soft substrates, while interfacing with the complex estuarine habitats consisting of eelgrass beds, marshlands and mudflat ecosystems. (G1, G2,G3)	According to the Ecotrust information, this area has a low economic impact on crab and commercial rockfish fisheries. This MPA is adjacent to the mouth of the Ten Mile estuary (proposed SMR). Located at the North end of this MPA is an established marine monitoring site, that along with numerous coastal access points makes it easy for research, recreation and enforcement possible. (G5) This MPA is clustered with an adjacent Ten Mile SMR. (G1,G3, G3)
Ten Mile Beach SMCA	N/A	Adds protection for soft bottom habitat to the adjacent SMR proposed to the north. Connects the estuarine reserve to the offshore SMR while allowing for commercial and recreational crabbing. Serves as an enforcement "buffer" for the "Randy's Rock" Reserve - a kind of "warden's rumble strip" as vessels approach the SMR.	Extremely important crabbing area for the private recreational and commercial passenger fishing vessel fleet out of Fort Bragg. This area must remain open to crabbing.
Ten Mile Estuary SMR	N/A	Estuary protection (Goals 1-5) Estuaries not only support local fish and shellfish populations that are harvested commercially and recreationally, but these waters also serve as spawning and nursery grounds for populations that are harvested offshore. Estuaries rank along with tropical rainforests and coral reefs as the world's most productive ecosystems, more productive than both the rivers and the ocean that influence them from either side. Supports current DFG coho and steelhead salmon habitat conservation projects while protecting essential habitat for federal and state listed threatened anadromous fish including coho, Chinook and steelhead salmon. Habitat for osmoregulation and acclimation for critical life phases of anadromous fish; important transportation corridor for adult salmon spawners; rearing habitat for juvenile salmonids, rockfish, flatfish, and tidewater gobies and habitat for smoltification of juvenile salmonids; migratory corridor for spawning lampreys.(G2)	None specified

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Document Updated March 5, 2010

MPA Name	MPA ID	Bioregion	MPA Boundaries (Exact or Approximate)	Designation	Level of Protection*	Propose Tribal Uses?	Proposed Take Regulations	Other Proposed Regulations
Ten Mile Estuary SMR (continued)								
Point Cabrillo SMCA	73892	Southern Bioregion	From a visible landmark at the south Caspar Headlands, to include all of Frolic Cove, an important archaeological site. The existing Point Cabrillo SCMA bisects this cove, making it difficult to enforce.	SMCA	Moderate low	Yes	The take of all living marine resources is prohibited except the recreational take of red abalone by free-diving; and urchin by diving. Only allow the take of urchin and abalone for studies of adaptive management.	It is not the intention of the array proponents to prohibit traditional native tribal access, harvest, or uses, or to interfere with their sovereignty on their ancestral lands.
Point Cabrillo SMR	73891	Southern Bioregion	None specified	SMR	Very high	Yes	Take of all living marine resources is prohibited.	It is not the intention of the array proponents to prohibit traditional native tribal access, harvest, or uses, or to interfere with their sovereignty on their ancestral lands.

SMCA=state marine conservation area SMP=state marine park SMRMA=state marine recreational management area SMR=state marine reserve TBD=to be determined
** Levels of protection assigned do not take into account proposed Tribal uses.*

California MLPA North Coast Study Region
Description of Marine Protected Areas (MPAs) in Array G
Document Updated March 5, 2010

MPA Name	Regional Goals/Objectives	Site-specific Rationale	Other Considerations
Ten Mile Estuary SMR (continued)		All species protected. Prime shorebird and waterfowl habitat; feeding area for pinnipeds; critical habitat and transportation corridor for river otters. This SMR protects larval source and enhance reproductive capacity of numerous invertebrate species such as dungeness crabs, clams, ghost shrimp, eel grass etc. (G1, G2, G4); and expands on long-term protections for complex estuarine habitats, including eelgrass beds, marshlands and mudflat ecosystems.(G1, G2) Almost the entire stretch of this array is close to population centers, with numerous coastal access points making it easy for research, long- term monitoring, recreation and enforcement. (G3, G5)	
Point Cabrillo SMCA	N/A	Allows for research opportunities to study the ecosystem relationships between abalone, algae and sea urchins. Side by side with an SMR, the biodiversity can be compared with an adjacent conservation area that allows harvest of both abalone and sea urchin. No take of kelp/algae. This study area will additionally provide a opportunity to study the relationship between understory canopy and benthic layer turf algae.	Easy access for research. This has area is part of a larger area closed to sea commercial urchin harvest (only) since 1992(?). Ongoing studies occur here. By reopening this area to recreational abalone harvest and commercial and recreational sea urchin harvest, biologists can learn about how the adjacent area (Pt. Cabrillo SMR) replenishes an adjacent fished area.
Point Cabrillo SMR	N/A	This proposed SMR contains high-quality invertebrate habitat and has been closed to commercial and recreational take of invertebrates since 1975, and the area was also closed to recreational take of finfish while allowing commercial take of finfish. This SMR would replace the existing Pt. Cabrillo SMCA and make the boudaries more feasible. Local biologists say this area is large enough to conduct studies on sea urchins and abalone. Along with the adjacent SMCA to the north, this cluster will provide side by side study opportunity of a no-take zone and an area of sustainable harvests of abalone and urchins.	Increases feasibility using easily distinguishable landmarks. Adjacent to a state park for recreational non-extractive activities such as scuba diving. Very accessible for research. Maintains a long time series of data from previous studies. We have proposed to local tribal councils that they adopt these regulations for their members, but pending government-to-government consultations, any regulations affecting tribal members must be passed by both the California Fish & Game Commission and the tribal councils concurrently, similar to the creation of a State Marine Park. This is a perfect area for study that could allow for the development of adaptive management, and collaborative research with the local fishing community, biologists and the tribes.

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** Levels of protection assigned do not take into account proposed Tribal uses.*

California MLPA North Coast Study Region
Description of Marine Protected Areas (MPAs) in Array G
Document Updated March 5, 2010

MPA Name	MPA ID	Bioregion	MPA Boundaries (Exact or Approximate)	Designation	Level of Protection*	Propose Tribal Uses?	Proposed Take Regulations	Other Proposed Regulations
Navarro River Estuary SMR	73890	Southern Bioregion	Mouth of the Navarro River to 3.450 miles inland in estuary waters seasonally affected by the tidal influence.	SMR	Very high	Yes	Take of all living marine resources is prohibited.	It is not the intention of the array proponents to prohibit traditional native tribal access, harvest, or uses, or to interfere with their sovereignty on their ancestral lands. Retrieval of recreational and commercial crab traps permitted. Removal of invasive species permitted. Vessels permitted.

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** Levels of protection assigned do not take into account proposed Tribal uses.*

California MLPA North Coast Study Region
Description of Marine Protected Areas (MPAs) in Array G
Document Updated March 5, 2010

MPA Name	Regional Goals/Objectives	Site-specific Rationale	Other Considerations
Navarro River Estuary SMR	N/A	Estuary protection (Goals 1.2.3.4 & 6) Anadromous fish refugia: habitat for osmoregulation and acclimation for critical life phases of anadromous fish; important transportation corridor for adult salmon spawners; provides rearing habitat for juvenile salmonids, rockfish, flatfish, and tidewater gobies and habitat for smoltification of juvenile salmonids; migratory corridor for spawning lampreys. All species protected. Prime shorebird and waterfowl habitat; feeding area for pinnipeds; critical habitat and transportation corridor for river otters.	Recreational kayaking and canoeing destination. Close proximity to Navarro Beach Campground [part of the Navarro River Redwoods SP] and shorebird and mammal viewing. Easily accessible to the public; no negative socio-economic impact on fishing, sea urchin or seaweed harvesting industries or related businesses.

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** Levels of protection assigned do not take into account proposed Tribal uses.*

California Marine Life Protection Act Initiative
North Coast Study Region
Consideration of Existing Marine Protected Areas
Revised January 12, 2010

Please indicate how each to the five existing marine protected areas (MPAs) in the MLPA North Coast Study Region listed below should be addressed. You may propose that the existing MPA be retained without change, be retained with changes to either the boundaries or regulations, or removed. Please also describe the rationale for your proposed action in the space provided. For your reference, the existing regulations and boundaries for these MPAs are included in Tables 1 and 2.

Existing MPA	**Retain** (no changes to boundaries or regulations)	**Modify** (included with boundary or regulation change)	**Remove** (not included)	**Rationale for Decision**
Punta Gorda SMR		Modified and expanded into SMR		The New Punta Gorda SMR provides more protection conforming to MLPA requirements for a network MPA.
MacKerricher SMCA			Remove	The current SMCA provided little ecosystem protection and expanding protection or making it meet feasibility guidelines may result in substantial economic and social impacts.
Point Cabrillo SMCA		Included in Pt Cabrillo SMR		Protection was increased and lines were made to conform with DFG feasibility guidelines. Research area for goal 3.
Russion Gulch SMCA			Remove	The current SMCA provided little ecosystem protection and expanding protection or making it meet feasibility guidelines may result in substantial economic and social impacts.
Van Damme SMCA			Remove	The current SMCA provided little ecosystem protection and expanding protection or making it meet feasibility guidelines may result in substantial economic and social impacts.

SMR = State Marine Reserve, SMCA = State Marine Conservation Area

Table 1. Regulation summary for existing state MPAs in the north coast study region.

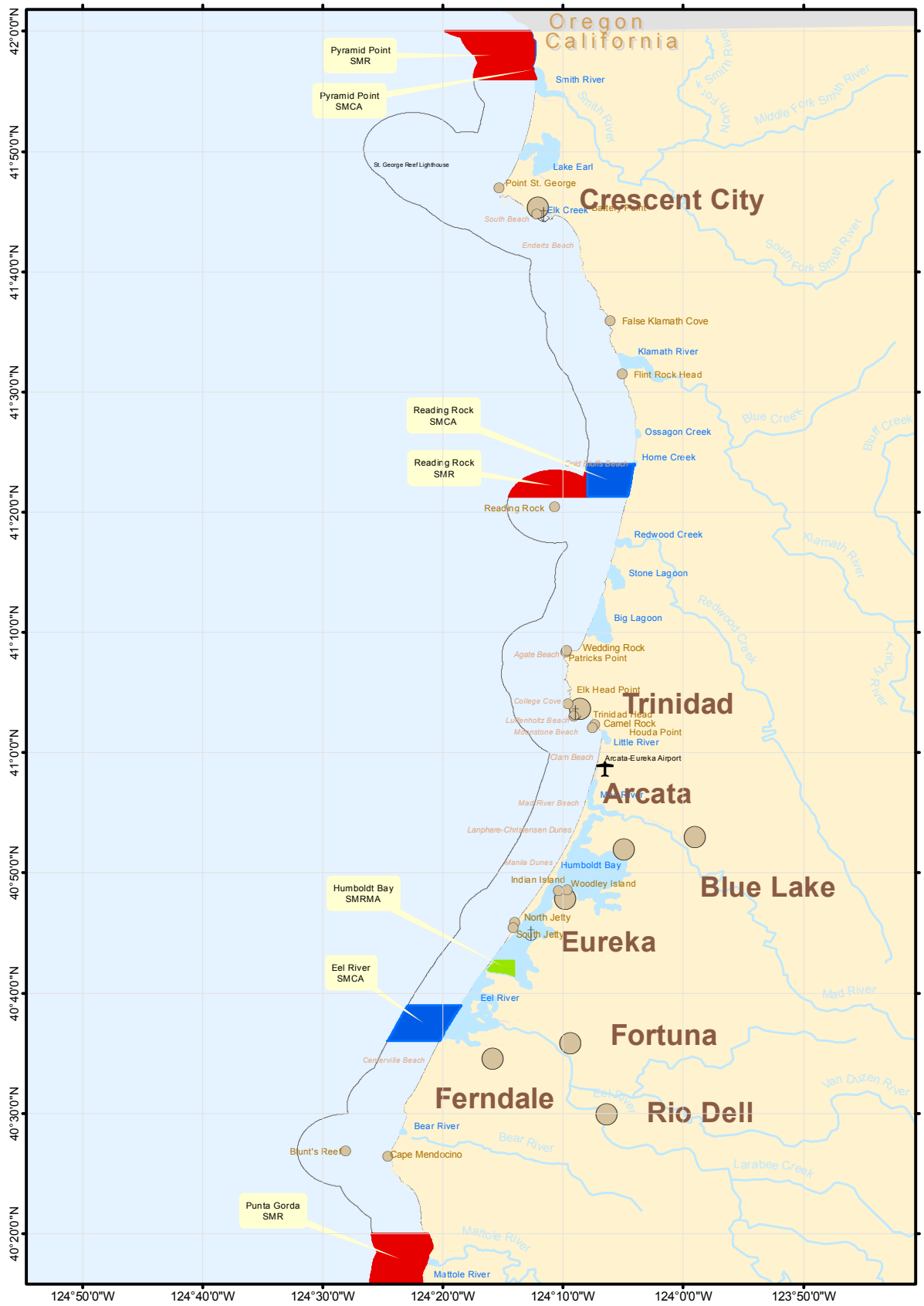
MPA Name	Allowed Take: Recreational	Allowed Take: Commercial	Other Restrictions
Punta Gorda SMR	Take of all living marine resources is prohibited.	Take of all living marine resources is prohibited.	Other restrictions exist regarding: swimming, boating, firearms, public entry, pesticides, herbicides and other regulated chemicals, litter, aircraft, pets, potential memorandums of understanding, and scientific research.
MacKerricher SMCA	Finfish, red abalone, chiones, clams, cockles, rock scallops, native oysters, crabs, lobster, ghost shrimp, sea urchins, mussels and marine worms except that no worms may be taken in any mussel bed unless taken incidentally to the take of mussels.	Finfish, crabs, ghost shrimp, jackknife clams, sea urchins, squid, algae except giant kelp and bull kelp and worms except that no worms may be taken in any mussel bed, nor may any person pick up, remove, detach from the substrate any other organisms, or break up, move or destroy any rocks or other substrate or surfaces to which organisms are attached.	None
Point Cabrillo SMCA	None	Finfish and marine aquatic plants.	None
Russian Gulch SMCA	Finfish, red abalone, chiones, clams, cockles, rock scallops, native oysters, crabs, lobster, ghost shrimp, sea urchins, mussels and marine worms except that no worms may be taken in any mussel bed unless taken incidentally to the take of mussels.	Finfish, crabs, ghost shrimp, jackknife clams, sea urchins, algae except giant kelp and bull kelp and worms except that no worms may be taken in any mussel bed, nor may any person pick up, remove, detach from the substrate any other organisms, or break up, move or destroy any rocks or other substrate or surfaces to which organisms are attached.	None
Van Damme SMCA	Finfish, red abalone, chiones, clams, cockles, rock scallops, native oysters, crabs, lobster, ghost shrimp, sea urchins, mussels and marine worms except that no worms may be taken in any mussel bed unless taken incidentally to the take of mussels.	Finfish, crabs, ghost shrimp, jackknife clams, sea urchins, algae except giant kelp and bull kelp and worms except that no worms may be taken in any mussel bed, nor may any person pick up, remove, detach from the substrate any other organisms, or break up, move or destroy any rocks or other substrate or surfaces to which organisms are attached.	None

Table 2. Boundaries for existing state MPAs in the north coast study region.

MPA Name	Boundaries
Punta Gorda SMR	This area is bounded by the three-fathom inshore depth contour, the 30- fathom depth contour and the following points: 40o 16.43' N. lat. 124o 22.00' W. long.; 40o 16.43' N. lat. 124o 23.50' W. long.; 40o 14.83' N. lat. 124o 23.18' W. long.; and 40o 15.23' N. lat. 124o 21.62' W. long.
MacKerricher SMCA	This area is bounded by the mean high tide line, the 3-fathom depth contour and the following points: 39o 29.81' N. lat. 123o 47.50' W. long.; 39o 29.95' N. lat. 123o 47.80' W. long.; 39o 27.62' N. lat. 123o 48.80' W. long.; and 39o 27.55' N. lat. 123o 48.52' W. long.
Point Cabrillo SMCA	This area is bounded by the mean high tide line, a distance of 1000 feet seaward of mean lower low water, and the following points: 39o 21.24' N. lat. 123o 49.25' W. long.; 39o 21.33' N. lat. 123o 49.64' W. long.; 39o 20.66' N. lat. 123o 49.68' W. long.; and 39o 20.57' N. lat. 123o 49.27' W. long.
Russian Gulch SMCA	This area is bounded by the mean high tide line, the 3-fathom depth contour and the following points: 39o 19.86' N. lat. 123o 48.84' W. long.; 39o 19.85' N. lat. 123o 48.89' W. long.; 39o 19.52' N. lat. 123o 48.46' W. long.; and 39o 19.52' N. lat. 123o 48.23' W. long.
Van Damme SMCA	This area is bounded by the mean high tide line, the 3-fathom depth contour and the following points: 39o 16.45' N. lat. 123o 47.60' W. long.; 39o 16.355' N. lat. 123o 47.60' W. long.; 39o 16.27' N. lat. 123o 47.545' W. long.; and 39o 16.27' N. lat. 123o 47.43' W. long.

MLPA North Coast Study Region Round 1 - North Coast External Proposed MPA Array G

Northern Bioregion (Oregon/California border to Mattole River)



California Marine Life Protection Act (MLPA) Initiative

0 2.5 5 10 Nautical Miles

0 3.5 7 14 Statute Miles

0 3.5 7 14 Kilometers

N

Date: 16 February 2010

Created by:
Marine Map Cartographic Division, UCSB.

For more information visit:
http://www.northcoast.marinemap.org/marinemap/

marine map

www.marinemap.org

Disclaimer:

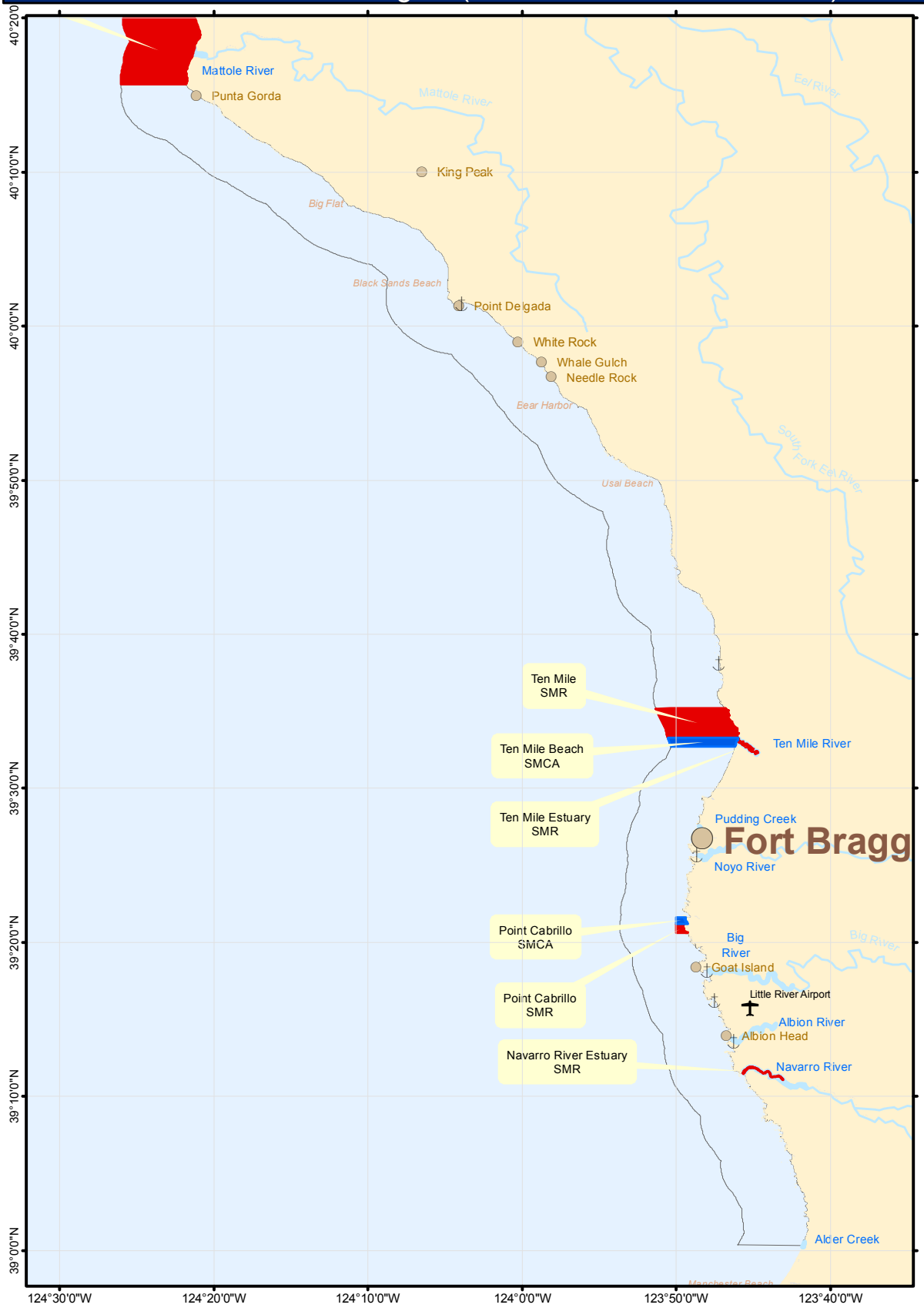
This map represents a proposed external marine protected area (MPA) array that has been submitted by a north coast community group or groups for consideration in the MLPA planning process. This external MPA array is under review; it is NOT a recommendation to the California Fish and Game Commission.

Legend

- North Coast Study Region Boundary
- Proposed Marine Protected Area Array
  - Proposed State Marine Reserve (SMR)
  - Proposed State Marine Conservation Area (SMCA)
  - Proposed State Marine Park (SMP)
  - Proposed State Marine Recreational Management Area (SMRMA)
- Estuaries
- Rivers
- Lighthouse
- Airport
- Coastal Point
- Major City
- Ports

MLPA North Coast Study Region Round 1 - North Coast External Proposed MPA Array G

Southern Bioregion (Mattole River to Alder Creek)



California Marine Life Protection Act (MLPA) Initiative

0 2 4 8 Nautical Miles

0 2.5 5 10 Statute Miles

0 2.5 5 10 Kilometers

N

Date: 16 February 2010

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Legend

- North Coast Study Region Boundary

Proposed Marine Protected Area Array

- Proposed State Marine Reserve (SMR)
- Proposed State Marine Conservation Area (SMCA)
- Proposed State Marine Park (SMP)
- Proposed State Marine Recreational Management Area (SMRMA)

- Estuaries
- Rivers

- Lighthouse
- Airport
- Coastal Point
- Major City
- Ports

California MLPA North Coast Project
Habitat Calculations for North Coast External Proposed MPA Array G (ExG)
Document Revised on: March 3, 2010

	How Measured	Total Available Habitat	Pyramid Point SMR	Pyramid Point SMCA	Reading Rock SMR	Reading Rock SMCA	Humboldt Bay SMRMA	Eel River SMCA
MPA ID			73897	73896	73887	73898	73886	73889
MPA Designation			SMR	SMCA	SMR	SMCA	SMRMA	SMCA
Level of Protection			Very high	High	Very high	Moderate high	Very high	Moderate high
SAT Evaluation Bioregion			Northern	Northern	Northern	Northern	Northern	Northern
Area	sq miles	1,027.23	20.99	0.20	11.38	9.88	1.84	13.20
Alongshore Span	miles	NA	4.66	3.45	2.49	3.10	N/A	3.71
ESI Shoreline	miles	516.66	1.38	3.97	0.00	3.16	3.16	3.75
Min Depth	feet	0.00	0.00	0.00	90.00	0.00	N/A	0.00
Max Depth	feet	1,667.00	124.00	3.00	247.00	101.00	N/A	120.00
Beaches	miles	180.42	0.20	3.77	0.00	3.16	0.00	3.75
Rocky Shores	miles	159.08	1.18	0.19	0.00	0.00	0.28	0.00
Hardened Shores	miles	22.10	0.00	0.00	0.00	0.00	0.00	0.00
Coastal Marsh	miles	88.60	0.00	0.00	0.00	0.00	1.90	0.00
Coastal Marsh (area)	sq miles	3.51	0.00	0.00	0.00	0.00	0.04	0.00
Tidal Flats	miles	66.46	0.00	0.00	0.00	0.00	0.98	0.00
Humboldt Eelgrass	sq miles	7.07	0.00	0.00	0.00	0.00	0.57	0.00
Estuary	sq miles	43.49	0.00	0.00	0.00	0.00	1.84	0.00
Offshore Rocks	miles	140.73	2.53	0.35	0.00	0.00	0.00	0.00
Linear Kelp	miles	52.10	0.00	0.00	0.00	0.00	0.00	0.00
Hard (0 - 30m) Proxy	miles	54.01	0.43	0.00	0.00	0.00	0.00	0.00
Hard (0 - 30m)	sq miles	42.32	0.99	0.00	0.00	0.00	0.00	0.00
Hard (30 - 100m)	sq miles	45.08	0.00	0.00	0.05	0.00	0.00	0.00
Hard (100 - 200m)	sq miles	0.99	0.00	0.00	0.00	0.00	0.00	0.00
Hard (> 200m)	sq miles	0.09	0.00	0.00	0.00	0.00	0.00	0.00
Soft (0 - 30m) Proxy	miles	159.39	4.21	0.00	0.00	3.14	0.00	0.00
Soft (0 - 30m)	sq miles	252.26	14.80	0.00	0.21	8.20	0.00	0.00
Soft (30 - 100m)	sq miles	420.79	2.53	0.00	11.10	0.12	0.00	0.00
Soft (100 - 200m)	sq miles	62.48	0.00	0.00	0.00	0.00	0.00	0.00
Soft (> 200m)	sq miles	7.67	0.00	0.00	0.00	0.00	0.00	0.00
Unknown (0 - 30m) Proxy	miles	19.10	0.00	0.00	0.00	0.00	0.00	3.77
Unknown (0 - 30m)	sq miles	164.96	2.39	0.20	0.00	1.55	1.84	12.17
Unknown (30 - 100m)	sq miles	26.74	0.28	0.00	0.02	0.00	0.00	1.03
Unknown (100 - 200m)	sq miles	0.15	0.00	0.00	0.00	0.00	0.00	0.00
Unknown (> 200m)	sq miles	0.20	0.00	0.00	0.00	0.00	0.00	0.00

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California MLPA North Coast Project
Habitat Calculations for North Coast External Proposed MPA Array G (ExG)
Document Revised on: March 3, 2010

	Punta Gorda SMR	Ten Mile SMR	Ten Mile Beach SMCA	Ten Mile Estuary SMR	Point Cabrillo SMCA	Point Cabrillo SMR	Navarro River Estuary SMR
MPA ID	73888	73894	73895	73893	73892	73891	73890
MPA Designation	SMR	SMR	SMCA	SMR	SMCA	SMR	SMR
Level of Protection	Very high	Very high	Moderate high	Very high	Moderate low	Very high	Very high
SAT Evaluation Bioregion	Northern	Southern	Southern	Southern	Southern	Southern	Southern
Area	19.36	8.81	2.67	0.19	0.29	0.30	0.14
Alongshore Span	4.95	2.25	0.67	N/A	0.51	0.69	N/A
ESI Shoreline	5.47	5.03	0.76	3.24	1.95	2.18	1.85
Min Depth	0.00	0.00	0.00	N/A	0.00	0.00	N/A
Max Depth	1667.00	335.00	288.00	N/A	23.00	40.00	N/A
Beaches	3.30	1.20	0.75	0.42	0.00	0.00	0.12
Rocky Shores	2.17	3.83	0.02	0.51	1.95	2.18	0.72
Hardened Shores	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coastal Marsh	0.00	0.00	0.00	2.30	0.00	0.00	0.64
Coastal Marsh (area)	0.00	0.00	0.00	0.05	0.00	0.00	0.01
Tidal Flats	0.00	0.00	0.00	0.00	0.00	0.00	0.36
Humboldt Eelgrass	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Estuary	0.00	0.00	0.00	0.19	0.00	0.00	0.14
Offshore Rocks	0.98	2.44	0.01	0.00	0.89	1.28	0.00
Linear Kelp	0.38	1.86	0.00	0.00	0.45	0.31	0.00
Hard (0 - 30m) Proxy	1.81	0.66	0.00	0.00	0.00	0.19	0.00
Hard (0 - 30m)	1.03	0.38	0.00	0.00	0.12	0.12	0.00
Hard (30 - 100m)	1.42	0.20	0.00	0.00	0.00	0.00	0.00
Hard (100 - 200m)	0.23	0.00	0.00	0.00	0.00	0.00	0.00
Hard (> 200m)	0.05	0.00	0.00	0.00	0.00	0.00	0.00
Soft (0 - 30m) Proxy	3.49	1.59	0.70	0.00	0.00	0.17	0.00
Soft (0 - 30m)	1.45	1.31	0.54	0.00	0.01	0.08	0.00
Soft (30 - 100m)	7.91	6.21	1.84	0.00	0.00	0.00	0.00
Soft (100 - 200m)	2.96	0.10	0.00	0.00	0.00	0.00	0.00
Soft (> 200m)	2.40	0.00	0.00	0.00	0.00	0.00	0.00
Unknown (0 - 30m) Proxy	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown (0 - 30m)	1.89	0.62	0.28	0.19	0.16	0.10	0.13
Unknown (30 - 100m)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown (100 - 200m)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown (> 200m)	0.02	0.00	0.00	0.00	0.00	0.00	0.00

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