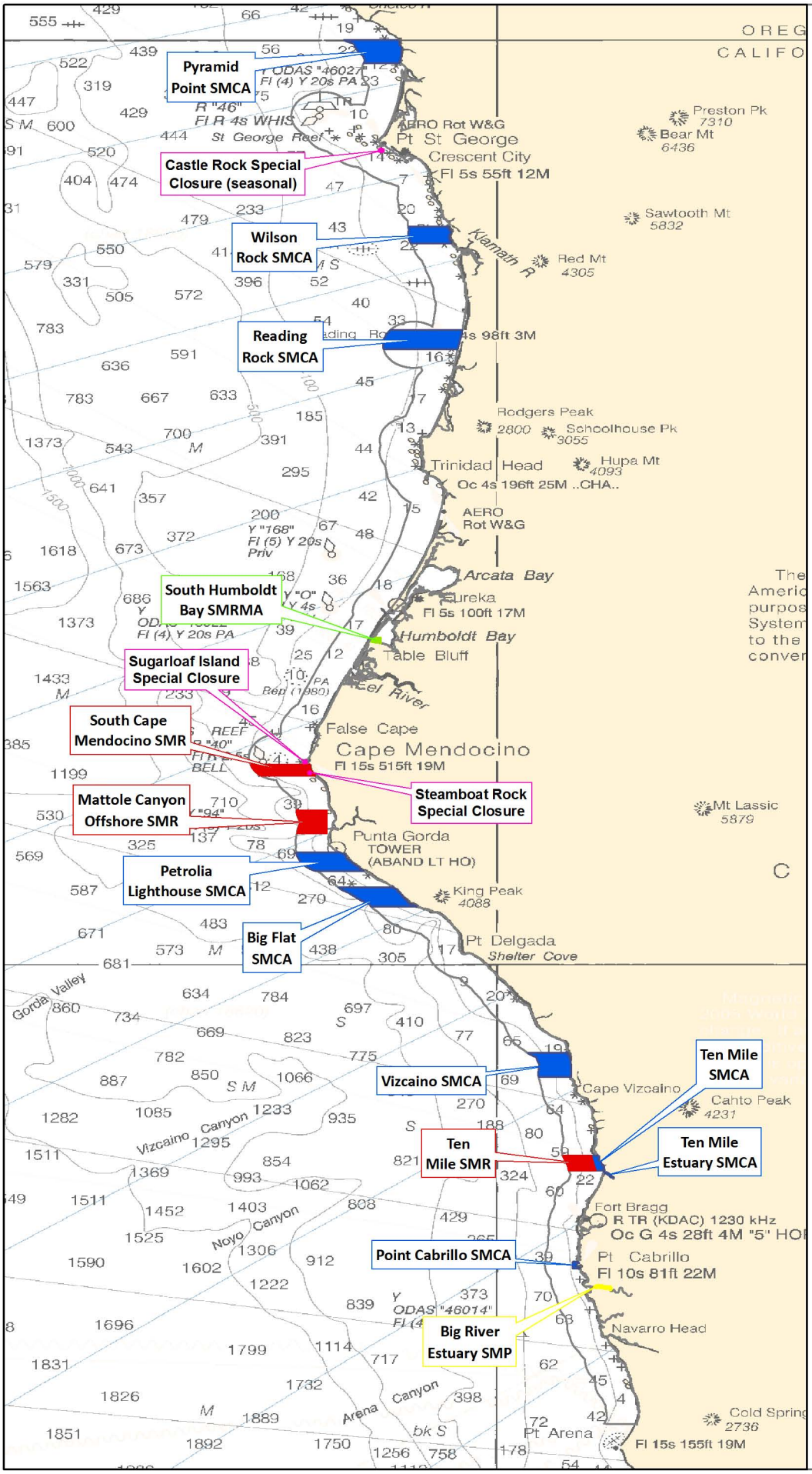
MLPA North Coast Study Region — Round 2 - Sapphire Draft MPA Proposal 2



California Marine Life Protection Act (MLPA) Initiative

Legend

- Proposed State Marine Conservation Area (SMCA)
- Proposed State Marine Park (SMP)
- Proposed State Marine Reserve (SMR)
- Proposed State Marine Recreational Management Area (SMRMA)
- Proposed Special Closure *See additional maps and materials.*
- North Coast Study Region Boundary

N

0 5 10 20 Nautical Miles

0 10 20 Statute Miles

0 10 20 Kilometers

Created by Marine Map Cartographic Division, UCSB.

Date: 03 June 2010

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

Disclaimer:
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California MLPA Initiative
MLPA North Coast Study Region: Round 2 Evaluations
Staff Summary of Area and Habitats in Sapphire Draft MPA Proposal 2
Document Created: June 17, 2010

Table 1. Summary of MPAs by Designation for Sapphire Draft MPA Proposal 2

Type of MPA[a]	# of MPAs	Area (mi^2)	% of Study Region
State Marine Reserve (SMR)	3	28.71	2.8%
State Marine Recreational Managed Area (SMRMA)	1	0.65	0.1%
State Marine Park (SMP)	1	0.16	<0.1%
State Marine Conservation Area (SMCA)	9	99.97	9.7%
All MPAs combined	14	129.49	12.6%

[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 Sapphire Draft MPA Proposal 2

Level of Protection (LOP)	# of MPAs	Area (mi^2)	% of Study Region
Very High[b]	3	28.71	2.8%
High	0	0.00	0.0%
Moderate-High	2	29.58	2.9%
Moderate	0	0.00	0.0%
Low[c]	0	0.00	0.0%
Undetermined[d]	9	71.20	6.9%
Total	14	129.49	12.6%

[b] The "Very High" category includes MPAs with SMR designation, as well as SMRMA designations that do not propose tribal uses.

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

[d] The "Undetermined" category includes MPAs that propose traditional, non-commercial, tribal uses, but do not identify the species and gear types. These MPAs may or may not have additional proposed allowed uses.

Table 3. Individual MPAs in Sapphire Draft MPA Proposal 2

MPA Name	Size[e] (mi^2)	Alongshore Span[f] (mi)	Depth Range[g] (ft)
Pyramid Point SMCA[h]	16.26	3.5	0 - 124
Wilson Rock SMCA[h]	11.65	2.6	0 - 121
Reading Rock SMCA[h]	24.11	2.9	0 - 252
South Humboldt Bay SMRMA[h]	0.65	N/A	Depth data not available
South Cape Mendocino SMR	10.49	1.6	0 - 277
Mattole Canyon Offshore SMR	11.24	3.5	41 - 1646
Petrolia Lighthouse SMCA[h]	15.57	3.3	0 - 375
Big Flat SMCA	15.76	3.4	0 - 1110
Vizcaino SMCA	13.82	3.7	0 - 370
Ten Mile SMR	6.98	2.3	78 - 335
Ten Mile SMCA[h]	2.06	2.3	0 - 92
Ten Mile Estuary SMCA[h]	0.19	N/A	Depth data not available
Point Cabrillo SMCA	0.54	1.0	0 - 76
Big River Estuary SMP[h]	0.16	N/A	Depth data not available

[e] Size is measured in square statue miles.

[f] 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

[g] 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.

[h] Tribal uses are proposed in this MPA.

Table 4. Habitat Representation in Sapphire Draft MPA Proposal 2

	SMR		SMRMA		SMP		SMCA		Total MPAs	
Habitat[i]	Area	%	Area	%	Area	%	Area	%	Area	%
Intertidal										
Sandy or gravel beach*	0.74	<1%	0.00	0%	0.00	0%	16.19	9%	16.92	9%
Rocky shores*	1.10	1%	0.27	<1%	0.44	<1%	16.45	10%	18.27	11%
Hardened shores*	0.00	0%	0.00	0%	0.00	0%	0.00	0%	0.00	0%
Coastal marsh*	0.00	0%	1.51	2%	3.44	4%	2.30	3%	7.25	8%
Coastal marsh	0.00	0%	0.04	1%	0.03	1%	0.05	1%	0.12	3%
Tidal flats*	0.00	0%	0.12	<1%	0.01	<1%	0.00	0%	0.13	<1%
Seagrass beds										
Humboldt Eelgrass	0.00	0%	0.06	1%	0.00	0%	0.00	0%	0.06	1%

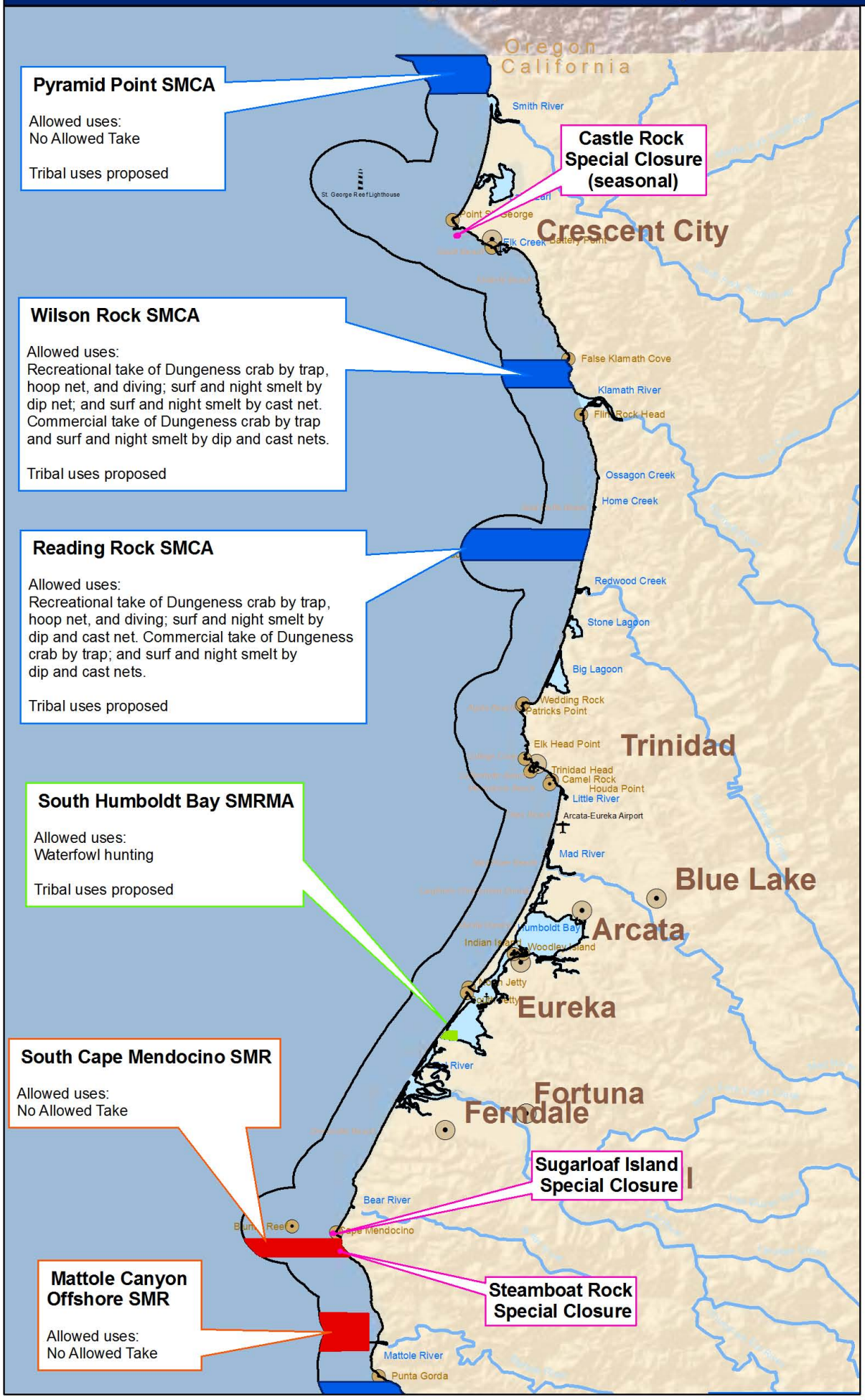
	SMR		SMRMA		SMP		SMCA		Total MPAs	
Habitat[i]	Area	%	Area	%	Area	%	Area	%	Area	%
Estuarine										
Estuary	0.00	0%	0.65	2%	0.16	<1%	0.19	<1%	1.00	2%
Hard bottom										
0-30 meters proxy (original)*[,j]	0.74	1%	0.00	0%	0.00	0%	4.02	7%	4.76	9%
0-30 meters proxy (revised)*[,j]	0.66	1%	0.00	0%	0.00	0%	3.68	8%	4.34	9%
15 meter isobath*[,j]	0.80	2%	0.00	0%	0.00	0%	4.41	9%	5.22	10%
0-30 meters [j]	0.55	2%	0.00	0%	0.00	0%	2.58	8%	3.13	10%
30-100 meters	3.73	11%	0.00	0%	0.00	0%	4.29	13%	8.02	24%
100-200 meters	0.13	19%	0.00	0%	0.00	0%	0.13	19%	0.26	38%
>200 meters	0.02	28%	0.00	0%	0.00	0%	0.01	14%	0.03	42%
Soft bottom										
0-30 meters proxy (original)*[,j]	1.62	1%	0.00	0%	0.00	0%	19.48	11%	21.10	12%
0-30 meters proxy (revised)*[,j]	1.70	1%	0.00	0%	0.00	0%	19.82	11%	21.52	12%
15 meter isobath*[,j]	2.11	1%	0.00	0%	0.00	0%	19.72	11%	21.84	12%
0-30 meters [j]	2.08	1%	0.00	0%	0.00	0%	33.88	11%	35.97	12%
30-100 meters	17.66	4%	0.00	0%	0.00	0%	43.69	10%	61.35	13%
100-200 meters	1.95	3%	0.00	0%	0.00	0%	6.35	10%	8.30	13%
>200 meters	1.57	20%	0.00	0%	0.00	0%	0.59	8%	2.16	28%
Unknown										
0-30 meters	1.01	1%	0.65	1%	0.16	0%	8.14	6%	9.96	8%
30-100 meters	0.00	0%	0.00	0%	0.00	0%	0.30	10%	0.30	10%
100-200 meters	0.00	0%	0.00	0%	0.00	0%	0.00	0%	0.00	0%
>200 meters	0.00	0%	0.00	0%	0.00	0%	0.00	0%	0.00	0%
Other										
Offshore rocks*	0.63	1%	0.00	0%	0.00	0%	5.86	11%	6.49	12%
Canyon	1.48	19%	0.00	0%	0.00	0%	0.67	9%	2.15	28%
Linear kelp*	0.00	0%	0.00	0%	0.00	0%	3.85	7%	3.85	7%

[i] Habitats are measured as an area (mi2) except for those with a * notation. Habitats with a * notation are expressed in linear units (mi).

[j] Four measurements for hard and soft substrate within the 0-30 meter zone have been included here for reference. The MLPA Master Plan Science Advisory Team (SAT) Habitat Work Group is recommending to the full SAT that the revised 0-30 meter proxy line is most appropriate measure for use in the habitat analyses; this approach will be discussed at the June 29-30, 2010 SAT meeting.

MLPA North Coast Study Region — Round 2 - Sapphire Draft MPA Proposal 2

Northern Bioregion (California/Oregon border to Mattole River)



Pyramid Point SMCA

Allowed uses:
No Allowed Take

Tribal uses proposed

Castle Rock Special Closure (seasonal)

Wilson Rock SMCA

Allowed uses:
Recreational take of Dungeness crab by trap, hoop net, and diving; surf and night smelt by dip net; and surf and night smelt by cast net. Commercial take of Dungeness crab by trap and surf and night smelt by dip and cast nets.

Tribal uses proposed

Reading Rock SMCA

Allowed uses:
Recreational take of Dungeness crab by trap, hoop net, and diving; surf and night smelt by dip and cast net. Commercial take of Dungeness crab by trap; and surf and night smelt by dip and cast nets.

Tribal uses proposed

South Humboldt Bay SMRMA

Allowed uses:
Waterfowl hunting

Tribal uses proposed

South Cape Mendocino SMR

Allowed uses:
No Allowed Take

Sugarloaf Island Special Closure

Steamboat Rock Special Closure

Mattole Canyon Offshore SMR

Allowed uses:
No Allowed Take

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0 2.5 5 10 Statute Miles

0 5 10 Kilometers

Created by MarineMap Cartographic Division, UCSB.

Date: 12 July 2010

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

Tribal uses proposed:

The NCRSG has proposed to allow "tribal uses" in some MPAs. However, current California law does not provide the legal framework for allowing exclusive "tribal uses" [http://www.dfg.ca.gov/mlpa/meeting_022510.asp]. To regulate take in MPAs, species and gear types must be identified and regulations apply to all users as specified.

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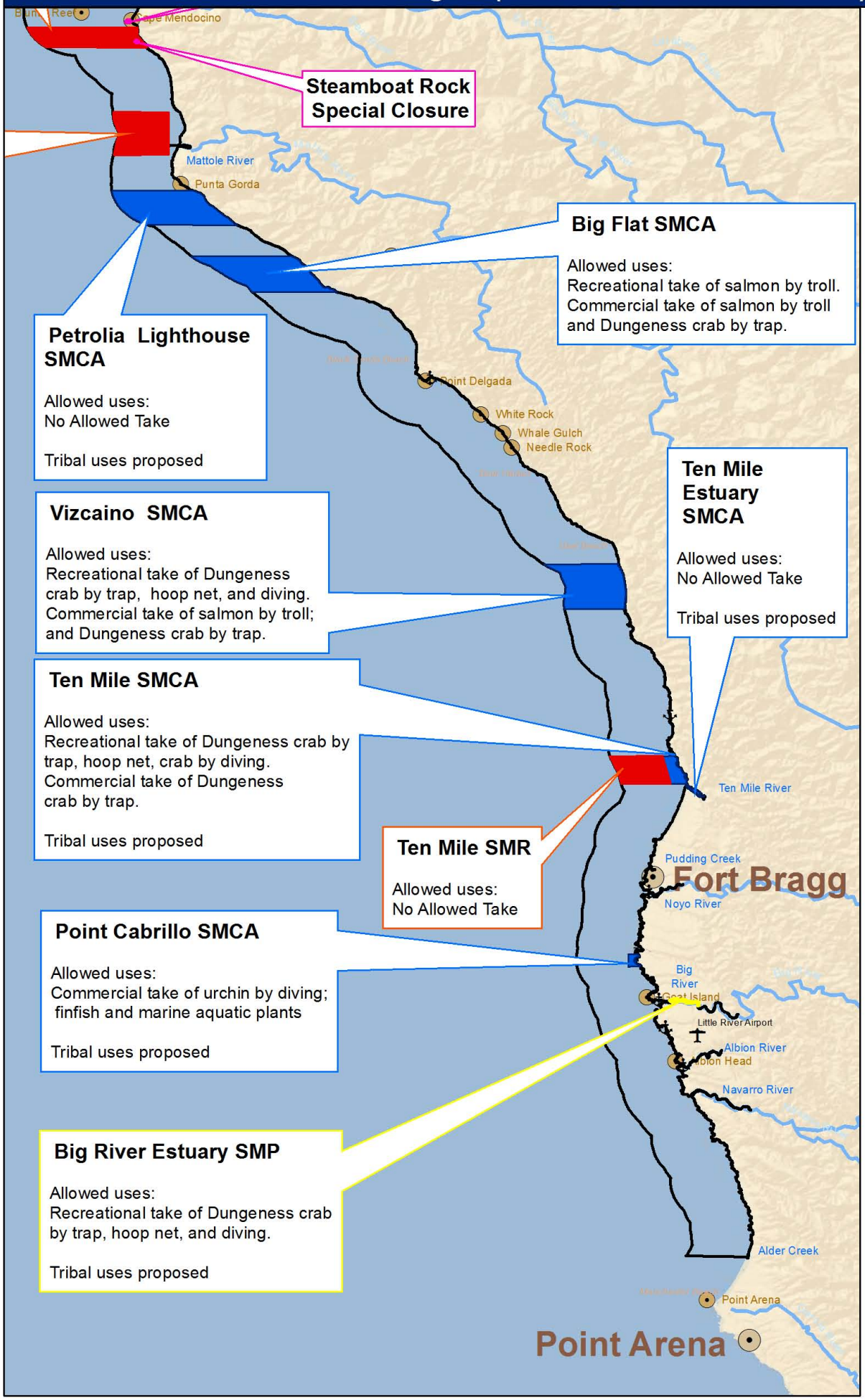
MLPA North Coast Study Region — Round 2 - Sapphire Draft MPA Proposal 2

Southern Bioregion (Mattole River to Alder Creek)



California Marine Life Protection Act (MLPA) Initiative

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California Marine Life Protection Act Initiative
North Coast Project

Description of MPAs Table for
Sapphire Draft MPA Proposal 2

This table contains the following information:

- Proposed MPA name and MPA ID
- Bioregion the MPA is located in (northern or southern bioregion)
- Description of boundaries
- Proposed designation type
- Proposed take regulations as well as other proposed regulations
- Site-specific rationale: Brief statement that explains main purpose of MPA
- Other design considerations: Key factors that influenced the design of the MPA
- A table of existing MPAs describing whether each will be retained, modified or removed (last page of this packet)

For more information on Round 2 draft MPA proposals, please visit:
http://www.dfg.ca.gov/mlpa/mpaproposals_nc.asp

California MLPA North Coast Study Region
Round 2: Description of Marine Protected Areas (MPAs) in Sapphire Draft MPA Proposal 2
Spreadsheet Created May 27, 2010

Name of Array: Sapphire Draft MPA Proposal 2
Author: NCRSG Sapphire Gem Group
Proposal Submitted: May 20, 2010

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

Total number of MPAs:	**14**
Number of SMRs:	3
Number of SMCAs:	9
Number of SMPs:	1
Number of SMRMAs:	1
Number proposing tribal us	9

MPA Name	MPA ID	Bioregion	MPA Boundaries (Exact or Approximate)	Designation	Preliminary Level of Protection*	Propose Tribal Uses?	Proposed Take Regulations
Pyramid Point SMCA	1001299	Northern	North: 42º 00.00' lat South: 41º 57.00' lat- South shore of Prince Island East: mean high tide line West: state waters	SMCA	Undetermined	Yes	Take of all living marine resources is prohibited except: 1. Traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities.
Wilson Rock SMCA	1001300	Northern	North: 41º 35.80' South: 41º 33.60' West: State Waters Boundary East: Mean High Tide Boundary	SMCA	Undetermined	Yes	The take of all living marine resources is prohibited except: 1. The recreational take of Dungeness crab by trap; Dungeness crab by hoop net; Dungeness crab by diving; surf and night smelt by dip net; and surf and night smelt by cast net. 2. The commercial take of Dungeness crab by trap; and surf and night smelt by dip net and cast net. 3. Traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities.
Reading Rock SMCA	1001545	Northern	North: 41º 22.50' lat South: 41º 20.00' lat West: the state water boundary East: Mean high tide line	SMCA	Undetermined	Yes	The take of all living marine resources is prohibited except: 1. The recreational take of Dungeness crab by trap; Dungeness crab by hoop net; Dungeness crab by diving; surf and night smelt by dip net; and surf and night smelt by cast net. 2. The commercial take of Dungeness crab by trap; and surf and night smelt by dip net and cast net. 3. Traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities.
South Humboldt Bay SMRMA	1001444	Northern	Designed so that the western and southern boundary are the bay shore and the northern and eastern boundary align with significant and visible shoreline breaks.	SMRMA	Undetermined	Yes	Take of all living marine resources is prohibited except: 1. Traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities.

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California MLPA North Coast Study Region
Round 2: Description of Marine Protected Areas (MPAs) in Sapphire Draft MPA Proposal 2
Spreadsheet Created May 27, 2010

MPA Name	Other Proposed Regulations	Site-specific Rationale	Other Considerations
Pyramid Point SMCA	Allow for co-management with tribes.	This SMCA captures beach, rocky shore, and shallow soft bottom replicates; the MPA is intended to be moderate high level of protection (TBD). Includes a unique off-shore island (Prince Island) and several off-shore rocks important for seabird colonies and Aleutian cackling geese. Contains virtually un-fished shallow rocky reef habitat. It also provides 16.28 square miles of protected forage habitat for pinnipeds and cetaceans.	Only allow traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities. Designed to meet DFG feasibility criteria. Maintains tribal resource uses and allows for co-management opportunities. Provides clear and enforceable boundaries with abundant coastal access and vantage points. Allows nearby vessel access (Port of Brookings, OR) for study/enforcement. Located on Oregon Border outside of 10-mile safety zone. Remote location substantially reduces socioeconomic impacts to sport and commercial fisheries in California's highest poverty level area.
Wilson Rock SMCA	Allow for co-management with the Yurok tribe.	Protects a variety of habitats for nearshore fish and invertebrates and decreases vessel activity near marine mammal haul out sites and bird colonies. Contains False Klamath Rock and is considered important for gray whale and pinniped foraging habitat. Sited within Redwood National Park boundaries and co-located with an Areas of Special Biological Significance. Current water quality monitoring and research activities occur on-site.	The intent is to allow both tribal uses and some commercial and recreational uses. The MPA poses disproportionate economic impacts to the commercial rockfish fishermen. The design is not well supported in Del Norte County, but is considered a "trade-off" regarding other proposals in the 10-mile safety zone. The north boundary of the MPA accommodates sport and commercial fishermen, edible seaweed harvesters and divers in light of otherwise limited access from Highway 101. The design considers the important Crescent City commercial crab fishery. Excludes False Klamath or Wilson Beach to the north because of otherwise limited and available coastal access for sport and commercial fishermen, edible seaweed harvesters and divers.
Reading Rock SMCA	Allow for co-management with the Yurok tribe.	Because this MPA proposes to allow only tribal uses and it intended to serve in the backbone. It captures beaches, and hard and soft 30-100 m habitats. Important for beach habitat spacing.	The intent is to allow both tribal uses and some commercial and recreational uses. Considers Yurok ancestral territory and cultural uses of Reading Rock and surrounding waters. Shape modified to conform with DFG feasibility criteria. Reduces socioeconomic impacts for the Crescent City Dungeness crab fishery and Trinidad Harbor commercial and sport rock fishermen and divers.
South Humboldt Bay SMRMA	Hunting is allowed. Allow for co-management with tribes. All activities with a primary purpose of habitat restoration or sea level rise adaptation are allowed.	This MPA meets or exceeds the science guidelines as follows: Eelgrass=.06 sq miles (Guideline=.04 sq miles). Coastal Marsh=.04 sq miles (Guideline=.04 sq miles).	The intent is to prohibit all extraction except tribal uses. Designed to exceed the science guidelines while minimizing impacts to recreational uses and uses by California Tribes and Tribal Communities.

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California MLPA North Coast Study Region
Round 2: Description of Marine Protected Areas (MPAs) in Sapphire Draft MPA Proposal 2
Spreadsheet Created May 27, 2010

MPA Name	MPA ID	Bioregion	MPA Boundaries (Exact or Approximate)	Designation	Preliminary Level of Protection*	Propose Tribal Uses?	Proposed Take Regulations
South Cape Mendocino SMR	1001331	Northern	North: 40º 26.00' (or mouth of river as landmark) South: 40º 24.50' West: State water boundary East: mean high tide line	SMR	Very High	No	Take of all living marine resources is prohibited.
Mattole Canyon Offshore SMR	1001354	Northern	North: 40º 20.00' West: the state water boundary South: 40º 17.00' East: 124º 22.00'	SMR	Very High	No	Take of all living marine resources is prohibited.
Petrolia Lighthouse SMCA	1001554	Southern	North: 40º 14.50' South: 40º 12.00' West: state water boundary East: Mean high tide line	SMCA	Undetermined	Yes	Take of all living marine resources is prohibited except: 1. Traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities.

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MPA Name	Other Proposed Regulations	Site-specific Rationale	Other Considerations
South Cape Mendocino SMR	None specified	Captures off shore rocks,rocky shores, soft bottom habits, beaches, 0-30 hard proxy, 30-100 hard/soft. Aids in protection of Pinnipeds haul outs and seabird colonies. Meets MLPA Goals 1, 2, 3, 4, 5, 6.	One of three MPAs in the bioregion divide area that strive for balance of meeting habitat guidelines for 'backbone', community input, cross interest support, and reductions of socioeconomic impacts. While neither the Mattole Canyon SMR or the Petrolia Lighthouse SMR are preferred size, the proximity of the two MPAs to each other should function effectively as a cluster. North boundary landmark River mouth, 'can live with' from fisherman - safety concerns addressed, furthest rocky fishing habitat from Eureka Harbor replaces alternative SMR proposal to north that had greater socioeconomic impacts & safety concerns for recreational fisherman. Southern boundary 'can live with' from Mattole/Petrolia community. Eastern offshore boundary allows for safe shore access for recreational and tribal uses. North of MPA, Sugar Loaf Rock proposed as Special closure. MPA close to meeting spacing guidelines, possible exception due to lg stretch of sandy areas and avoidance of significant socioeconomic impacts.
Mattole Canyon Offshore SMR	None specified	Captures 0-30 hard proxy, 15m hard, 30-100 hard, 100-200 hard, 100-200 hard/soft, >200 hard/soft meets MLPA Goals 1, 3, 4, 5, 6.	One of three MPAs in the bio-region divide area that strive for balance of meeting habitat guidelines for 'backbone', community input, cross interest RSG member support, and reductions of socio-economic impacts. While neither the South Cape Mendocino SMR or the Petrolia Lighthouse SMR MPAs are preferred size, the proximity of the South Cape Mendocino SMR and Petrolia Lighthouse SMR to each other should function effectively as a cluster. Captures unique canyon habitat, MPAenlarged to capture 0-30 proxy. Offshore East longitude line to allow for shore-based recreational and tribal uses, reducing socio-economic impacts while capturing key guideline habitats
Petrolia Lighthouse SMCA	Allow for co-management with tribes.	The Petrolia Lighthouse SMR protects rocky shores, captures kelp, hard 0-30m and 30-100m habitat, offshore rocks and includes all levels of soft habitat. Additionally, important seabird and sea lion rookeries are protected.	While neither the Mattole or the Petrolia Lighthouse MPA are preferred size, the proximity of the Mattole Canyon SMR and Petrolia Lighthouse SMR to each other should function effectively as a cluster. The intent is to prohibit all extraction except tribal uses.

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MPA Name	MPA ID	Bioregion	MPA Boundaries (Exact or Approximate)	Designation	Preliminary Level of Protection*	Propose Tribal Uses?	Proposed Take Regulations
Big Flat SMCA	1001310	Southern	North: 40º 10.00' South: 40º 07.50' East: Mean high tide line West: State waters	SMCA	Moderate High	No	The take of all living marine resources is prohibited except: 1. The recreational take of salmon by troll. 2. The commercial take of salmon by troll; and Dungeness crab by trap.
Vizcaino SMCA	1001526	Southern	North: 39º 48.50' lat South: 39º 45.50' lat West: State water boundary East: Mean high tide line	SMCA	Moderate High	No	The take of all living marine resources is prohibited except: 1. The recreational take of Dungeness crab by trap; Dungeness crab by hoop net; and Dungeness crab by diving. 2. The commercial take of salmon by troll; and Dungeness crab by trap.
Ten Mile SMR	1001572	Southern	North: 39º 35.20' South: River mouth approx 39º 33.23' West: State waters line	SMR	Very High	No	Take of all living marine resources is prohibited.
Ten Mile SMCA	1001573	Southern	North: 39º 35.20' South: River mouth approx 39º 33.23' East: Mean high tide line	SMCA	Undetermined	Yes	The take of all living marine resources is prohibited except: 1. The recreational take of Dungeness crab by trap; Dungeness crab by hoop net; and Dungeness crab by diving. 2. The commercial take of Dungeness crab by trap. 3. Traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities.

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MPA Name	Other Proposed Regulations	Site-specific Rationale	Other Considerations
Big Flat SMCA	None specified	Captures rocky shores, beaches, all levels of soft habitat, >200 hard. This SMCA is specifically designed to enhance and preserve rock fish habitat while at the same time posing, due to its remote location, little or no socioeconomic impacts to commercial or recreational fishermen. Meets MLPA goals 1, 2, 3, 4, 5, 6.	Remote location with little onshore fishing. Captures existing Essential Fish Habitat Conservation Area. Canyon upwelling exists here, as do rocky shorelines and kelp beds. Meets size guidelines and replicates hard bottom nearshore habitat to the south. Northern boundary 40 10"N recognized landmark in current regulations, aids to ease of enforcement feasibility. Southern boundary, placed off minute longitude line to give allowances for Rogers Break ~40.12'6 which minimizes socio-economic impacts, is approximately 10 miles safety zone from Shelter Cove harbor, and is a 'can live with' from Shelter Cove community, that strives for balance of meeting habitat guidelines to supplement 'backbone', community input, cross interest RSG member support, and reductions of socio-economic impacts. The intent is to prohibit all extraction except tribal uses. Surfing location. Area of significant biological significance.
Vizcaino SMCA	None specified	Protect an area that is rich in primarily rocky shore habitat with a high diversity of benthic species characteristic of the north coast. Captures Most habitats except deep rock and soft. Only kelp and hard 0-30m replicate in MPA array.	Socioeconomic impacts were considered when developing the level of protection to allow commercial crabbing and salmon trolling. Positioned near the center of the bioregion South of Gorda capturing and protecting several key habitats defined by the SAT
Ten Mile SMR	None specified	This area contains one of the widest possible ranges of habitat representation. 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. This SMR helps maintain biodiversity in fish, invertebrates, seabirds and marine mammals associated with the protection of the ecosystem.	Socioeconomic impact: significant negative impact to the sea urchin industry, moderate negative impact on live fishing and crabbing; potential negative impact on seaweed harvesting due to effort shift if other areas are closed to harvesting; minimal impact on abalone harvesting. Placing this reserve 41 miles N of the Pt. Arena SMR minimizes the cumulative effects. 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)
Ten Mile SMCA	Allow for co-management with tribes.	This area contains one of the widest possible ranges of habitat representation. 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. This SMR/SMCA cluster helps maintain biodiversity in fish, invertebrates, seabirds and marine mammals associated with the protection of the ecosystem.	The intent is to allow both tribal uses and some commercial and recreational uses. Sapphire members believe this MPA should capture hard 0-30 m Socioeconomic impact: significant negative impact to the sea urchin industry, moderate negative impact on live fishing and crabbing; potential negative impact on seaweed harvesting due to effort shift if other areas are closed to harvesting; minimal impact on abalone harvesting. Placing this reserve 41 miles N of the Pt. Arena SMR minimizes the cumulative effects. 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)

SMCA=state marine conservation area SMP=state marine park SMRMA=state marine recreational management area SMR=state marine reserve
* Preliminary LOPs are considered draft and may change based on the SAT's review of allowed uses.

California MLPA North Coast Study Region
Round 2: Description of Marine Protected Areas (MPAs) in Sapphire Draft MPA Proposal 2
Spreadsheet Created May 27, 2010

MPA Name	MPA ID	Bioregion	MPA Boundaries (Exact or Approximate)	Designation	Preliminary Level of Protection*	Propose Tribal Uses?	Proposed Take Regulations
Ten Mile Estuary SMCA	1001574	Southern	Headwaters of 10 mile starts on Valley Rancheria (Valerie's tribe). Estuary extends upstream 1.5 miles from the mouth of Ten Mile River.	SMCA	Undetermined	Yes	Take of all living marine resources is prohibited except: 1. Traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities.
Point Cabrillo SMCA	1001570	Southern	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: 39 21.24' N. lat. 123 49.25' W. long.; 39 21.33' N. lat. 123 49.64' W. long.; 39 20.66' N. lat. 123 49.68' W. long.; and 39 20.57' N. lat. 123 49.27' W. long. North and south boundaries match those of Pt. Cabrillo State Park.	SMCA	Undetermined	Yes	The take of all living marine resources is prohibited except: 1. The commercial take of urchin by diving; and finfish and marine aquatic plants. 2. Traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities.
Big River Estuary SMP	1001575	Southern	From the old bridge abutment (or kiosk ?), then upstream five miles.	SMP	Undetermined	Yes	The take of all living marine resources is prohibited except: 1. The recreational take of Dungeness crab by trap; Dungeness crab by hoop net; and Dungeness crab by diving. 2. Traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities.

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California MLPA North Coast Study Region
Round 2: Description of Marine Protected Areas (MPAs) in Sapphire Draft MPA Proposal 2
Spreadsheet Created May 27, 2010

MPA Name	Other Proposed Regulations	Site-specific Rationale	Other Considerations
Ten Mile Estuary SMCA	Allow for co-management with tribes.	Supports local fish and shellfish populations that are harvested commercially and recreationally. Serves as spawning and nursery grounds for populations that are harvested offshore. Protects larvae and enhances reproductive capacity of many invertebrate species such as Dungeness crab. Expands on long-term protections for complex estuarine habitats, including eelgrass beds, marshlands and mudflat ecosystems. Supports current DFG salmon conservation projects while protecting nursery for federal/state listed threatened anadromous fish including Coho, King and Steelhead salmon.	The intent is to prohibit all extraction except tribal uses. Has numerous coastal access points making it easy for research, long-term monitoring, recreation and enforcement.
Point Cabrillo SMCA	Allow for co-management with tribes.	Useful spot, view fish, people can get in the water to enjoy, goal 3 MPA	The intent is to allow both tribal uses and some commercial and recreational uses.
Big River Estuary SMP	Allow for co-management with tribes.	Estuary habitat preserved; pristine eel grass beds; anadromous fish refugia. Satisfies Goals 1,2,3,4,6.	The intent is to allow both tribal uses and some recreational uses. Within State Parks boundaries. Key recreational kayaking area. A boost to local economy because estuary is protected. Shorebird habitat protected. Historical steelhead fishing spot

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California MLPA Initiative

MLPA North Coast Study Region: Round 2 Evaluations
MPA Goals and Regional Objectives for Sapphire Draft MPA Proposal 2
Document created June 17, 2010

The marine protected area (MPA) design process includes setting goals and regional objectives that are consistent with the Marine Life Protection Act (MLPA). During Round 2 of the MLPA North Coast Project, goals were assigned during MPA deliberations and then the objectives were assigned and reviewed by North Coast Regional Stakeholder Group (NCRSG) members after Round 2 had been completed. The north coast goals are taken verbatim from the MLPA itself, and the regional objectives were developed by the NCRSG.[1] The following table includes the goals and regional objectives assigned to each MPA included in Sapphire Draft MPA Proposal 2. This document is designed to supplement the Round 2 Description of MPAs spreadsheets found on the Marine Life Protection Act Initiative's webpage (http://www.dfg.ca.gov/mlpa/mpaproposals_nc.asp).

Codes and acronyms used in the table:

G = Goal; O = Objective. Example: G1: (O-1, O-3) would stand for Goal 1, Objectives 1 and 3.
SMCA = state marine conservation area
SMP = state marine park
SMR = state marine reserve
SMRMA = state marine recreational management area

Proposed MPA Name	Goals Regional Objectives
Pyramid Point SMCA	G1: (O-2, O-3, O-4), G2: (O-1,O-2, O-3), G3: (O-1, O-2), G4: (O-1, O-2), G5: (O1, O2), G6: (O-1, O-2)
Wilson Rock SMCA	G1: (O-1, O-2, O-4), G2: (O-2 G3: (O-2), G4: (O-1, O-2), G5: (O-2, O-3) G6: (O-1, O-2)
Reading Rock SMCA	G1: (O-1, O-2, O-3, O-4), G2: (O-4)
South Humboldt Bay SMRMA	G1: (O-4, O-5), G2: (O-3)
South Cape Mendocino SMR	G1: (O-1, O-2, O-5), G5: (O-2) G6: (O-1, O-2)
Mattole Canyon Offshore SMR	G1: (O1, O-2, O-3), G3: (O-1) G4: (O-1), G5: (O-1, O-2, O-3), G6: (O-1)
Petrolia Lighthouse SMCA	G1: (O-1, O-2, O-5), G3: (O-1,O-2), G4: (O-1, O-2), G5: (O-3, O-4)
Big Flat SMCA	G1: (O-3, O-5), G2: (O-1, O-2), G3: (O-1), G4: (O-2, O-4), G5: (O-2), G6: (O-1, O-2)
Vizcaino SMCA	G1: (O-2, O-4), G2: (O-3), G3: (O-1, O-2), G4: (O-1, O-2), G5: (O-3, O-4), G6: (O-1, O-2)
Ten Mile SMR	G1: (O-2, O-3, O-5), G2: (O-2, O-3), G3: (O-1, O-2), G4: (O-1, O-2), G5: (O-2, O-3,), G6: (O-1, O-2)

[1] *Document Source: http://nrm.dfg.ca.gov/FileHandler.ashx?DocumentVersionID=33653*

Proposed MPA Name	Goals Regional Objectives
Ten Mile SMCA	G1: (O-2, O-3), G2: (O-2, O-4) G3: (O-1, O-2), G4: (O-1, O-2), G5: (O-2, O-3), G6: (O-1, O-2)
Ten Mile Estuary SMCA	G1: (O-4), G2: (O-3), G3: (O-1, O-3), G4: (O-2), G5: (O-2, O-3), G6: (O-2)
Point Cabrillo SMCA	G3: (O-1, O-3)
Big River Estuary SMP	G1: (O-4), G2: (O-3), G3: (O-1, O-3), G4: (O-2), G6: (O-2)

California Marine Life Protection Act Initiative

Proposed Recommendation from the Sapphire Work Group of the MLPA North Coast Regional Stakeholder Group

May 27, 2010

In Round 2 of the marine protected area (MPA) planning process for the north coast, Sapphire Work Group of the Marine Life Protection Act (MLPA) North Coast Regional Stakeholder Group developed a recommendation to the MLPA Blue Ribbon Task Force that the group suggests accompany any MPA recommendations to the State of California.

Recommendation

State waters, which extend from the shoreline (mean high tide line) to the boundary between state and federal waters (three nautical miles from shore), shall not be occupied by seafloor pipelines and/or sub-seabed slant holes to transport hydrocarbon products from offshore sedimentary basins.

Rationale

Recognizing that:

Significant hydrocarbon resources might be located in the Point Arena Sedimentary Basin on the continental shelf west of the MLPA North Coast Study Region's southern bioregion; and

The San Andreas Fault transects the shelf between the basin and state waters, and

The repetition period of a 1906-style earthquake, where the fault broke instantaneously 15 to 20 feet over a span from Shelter Cove to San Mateo County, is as short as 140 years;

Consideration of long-term protection of marine life precludes the installation across or underlying state waters of sea-floor pipelines and/or sub-seabed slanted wells that would bring oil and gas onshore, given that seismic truncation of pipelines and slant holes would cause discharge of hydrocarbon products instantaneously or ultimately directly into state waters.