



Marine Life Protection Act



California Department of Fish and Game Feasibility Analysis of Draft MPA Proposals

North Central Coast Regional Stakeholder Group Meeting

February 21, 2008 • San Rafael, CA

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California Department of Fish and Game



Feasibility Evaluation - Draft MPA Proposals

- Evaluations completed for North Central Coast
 - 4 draft MPA proposals (Proposals 1-4)
 - 1 revised external MPA proposal (Proposal XA)
- Outcomes: Greatly improved feasibility from first round of MPA proposals
- Evaluation contents for each draft MPA proposal:
 - Part 1: Special Conditions and general suggestions
 - Part 2: MPA images with comments, guidance
 - Part 3: Feasibility checklist tables by MPA proposal



Part 1 - Special conditions, general suggestions

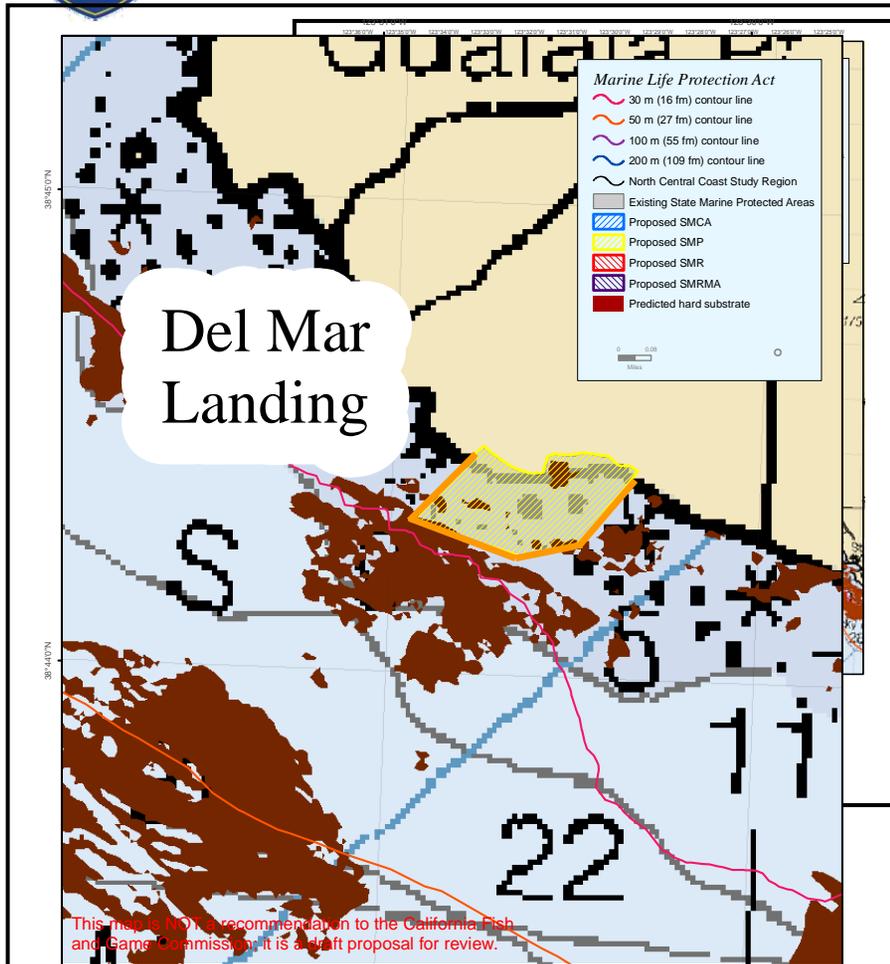
- Existing aquaculture leases – Propose SMCA
 1. Drakes-Limantour Estero SMR (Proposal 1)
 2. Drakes Estero SMR (Proposals 2, 3, 4)
 3. Tomales Bay SMR (Proposal XA)

- Waterfowl hunting – Propose SMRMA
 - Tomales Bay SMP (Proposal 2)
 - Tomales Bay SMR (Proposals 3, XA)
 - Estero Americano SMR (Proposals 2, 3, XA)
 - Estero San Antonio SMR (Proposals 2, 3, XA)

- Existing MPAs included in proposals
 - Review boundaries relative to DFG feasibility criteria
 - Simplify/clarify complex or vague regulations (DFG can assist)



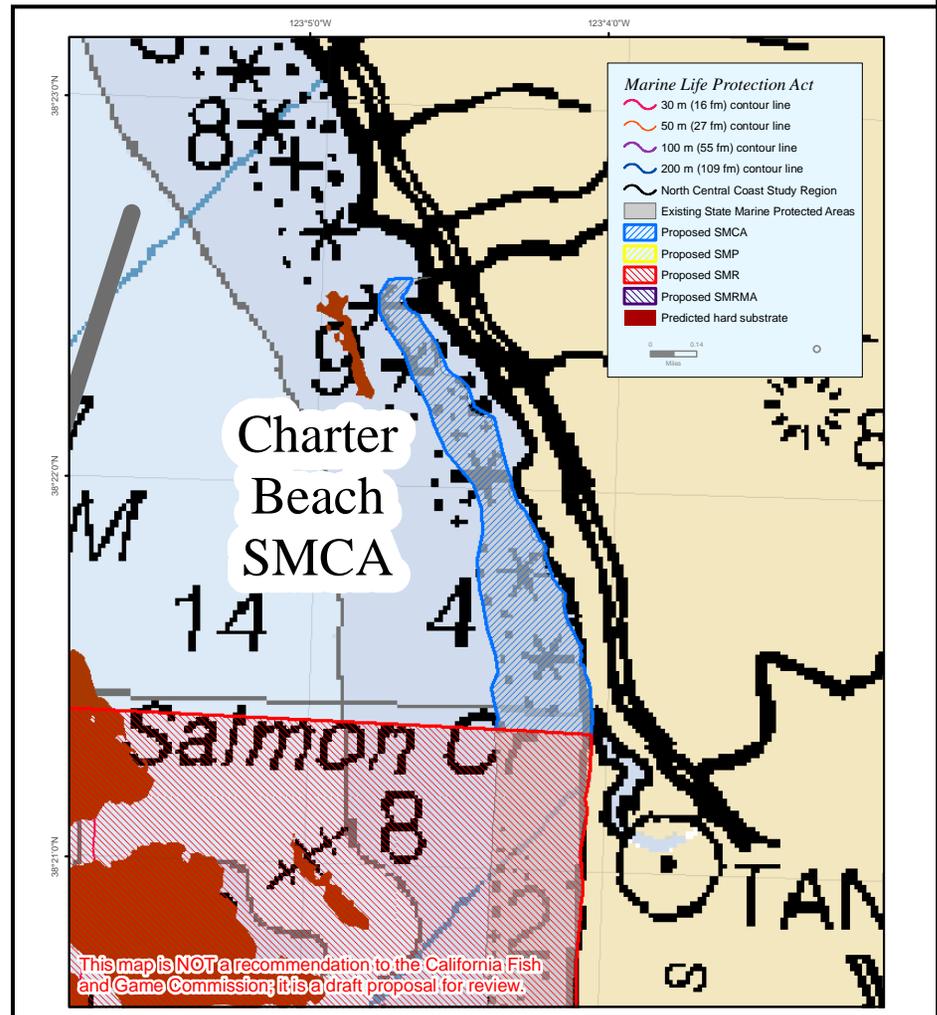
Examples: Boundary Issues in Existing MPAs



Subregion 1 - Alder Creek to Horseshoe Point

Draft Proposal 1 (EC)

This draft marine protected area (MPA) proposal was captured during the California Marine Life Protection Act North Central Coast Project Regional Stakeholder meeting on December 12, 2007. Further information on each proposed MPA concept can be found in the corresponding text document under the name of the MPA.



Subregion 1 & 2 - Alder Creek to Horseshoe Point & Horseshoe Point to Bodega Head

Draft Proposal 3 (TC)

This draft marine protected area (MPA) proposal was captured during the California Marine Life Protection Act North Central Coast Project Regional Stakeholder meeting on December 12, 2007. Further information on each proposed MPA concept can be found in the corresponding text document under the name of the MPA.



Example: Complex Regulations

Existing MPA - Salt Point SMCA (North Central Coast)

(B) Take of all living marine resources is prohibited except:

1. Only the following species may be taken recreationally: finfish, red abalone, chiones, clams, cockles, rock scallops, native oysters, crabs, lobsters, 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.
2. Only the following species may be taken commercially: 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.



Example: Complex Regulations

Existing MPA - Salt Point SMCA (North Central Coast)

Problems:

- Too many exceptions
- Minor differences between sport and commercial not readily noticed
- Awkward allowances



Example: Vague Proposed Regulations

Draft Proposed MPA – Duxbury SMCA (North Central Coast, Proposal 4)

Take of all living marine resources is prohibited
except ... **shore-based angling.**

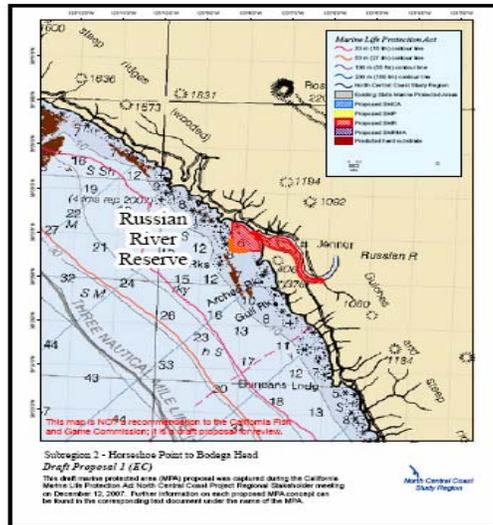
Problems:

- Does not specify species
- Does not specify allowed modes

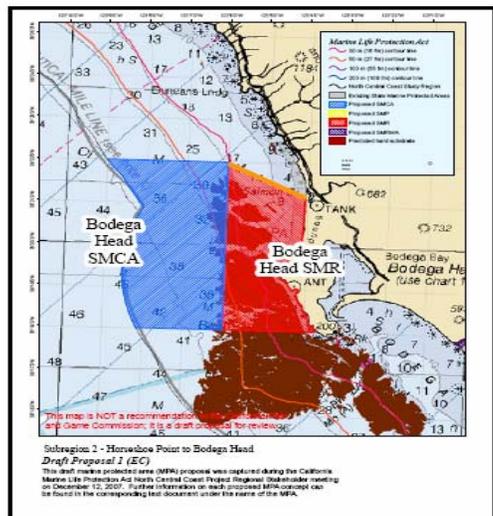


Part 2 - MPA images, comments, guidance

California Department of Fish and Game
 North Central Coast Study Region
 DRAFT- Feasibility Evaluation of Draft MPA Proposals
 February 5, 2008



Russian River Reserve SMR: A floating corner was created in the south-western corner of the SMR (see External Proposal A (round 2) for a similar sized/ positioned MPA using coordinates that meet feasibility guidelines). Offshore corners should be located at whole minute lines of latitude and longitude (see: general suggestions for improving the feasibility of the draft proposals; bullet #2).



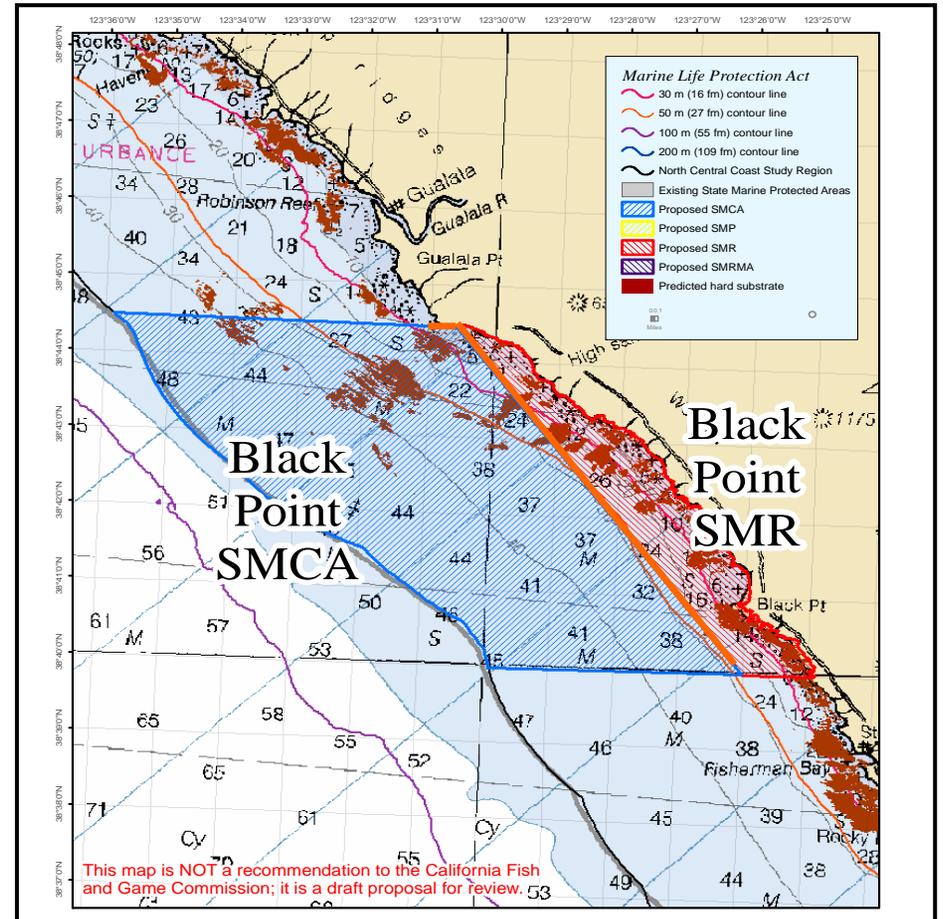
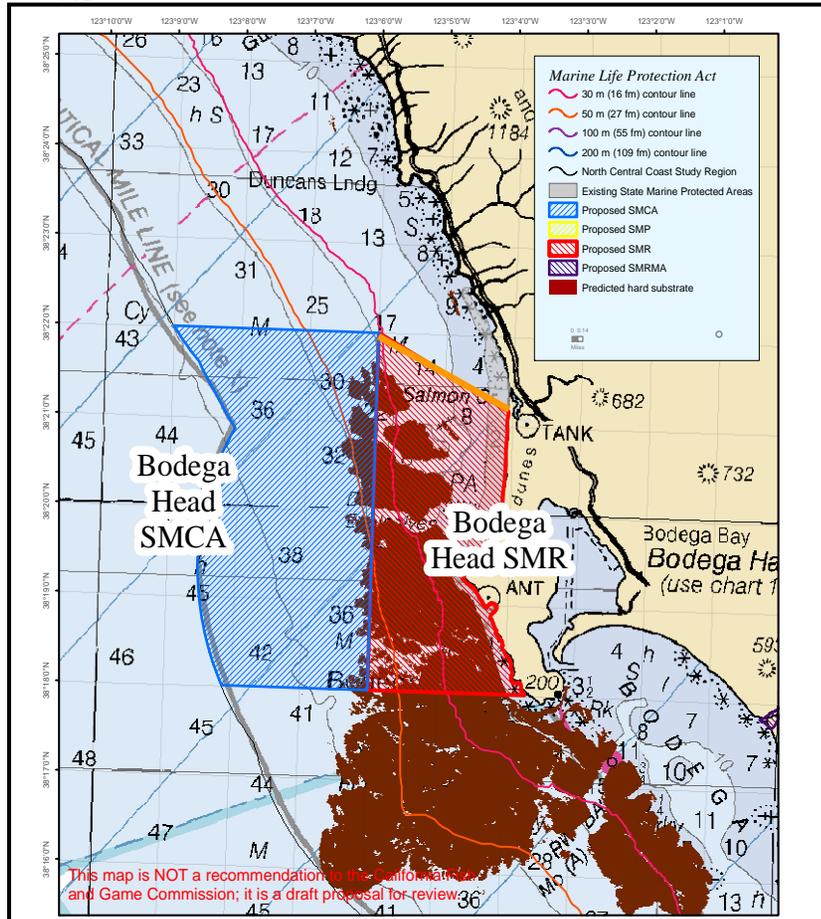
Bodega Head SMR: The northern boundary of the SMR is a diagonal line that does not follow the angle of the coastline. The landmark utilized in the north-eastern corner of the SMR ("the tanks") is not considered a permanent landmark.

Additional Comments from CDFG Enforcement:

- The diagonal northern boundary of the SMR would be difficult to enforce and prosecute in a court of law.

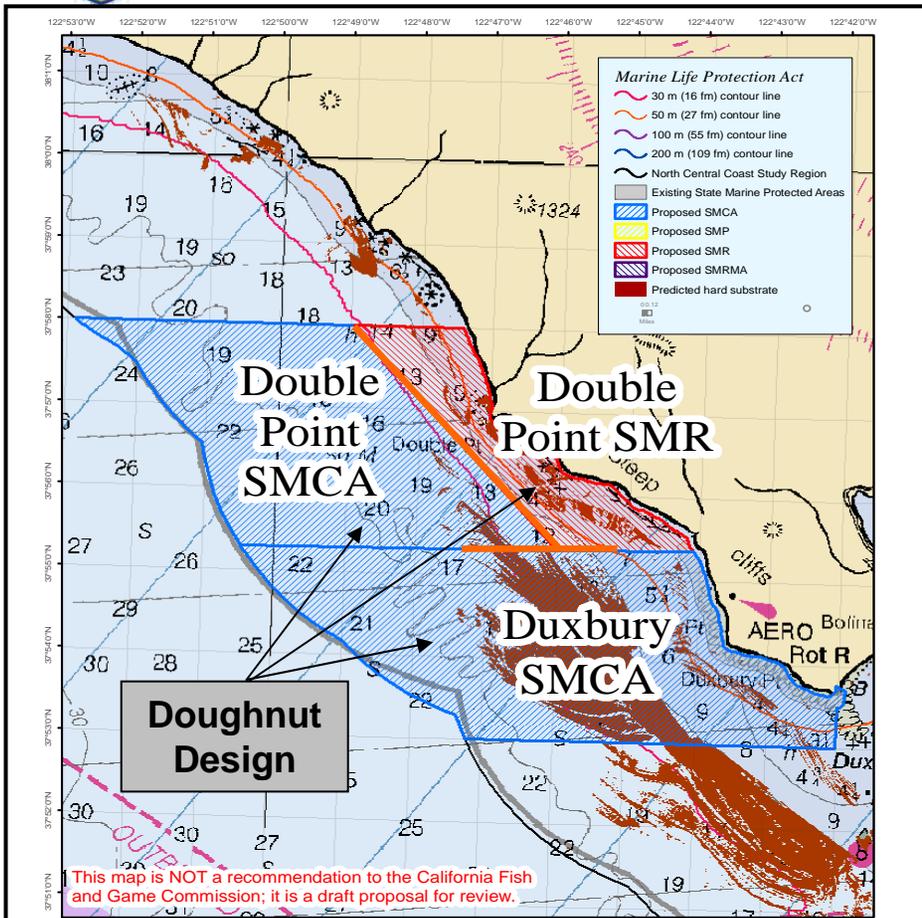


Examples: Unanchored Lines





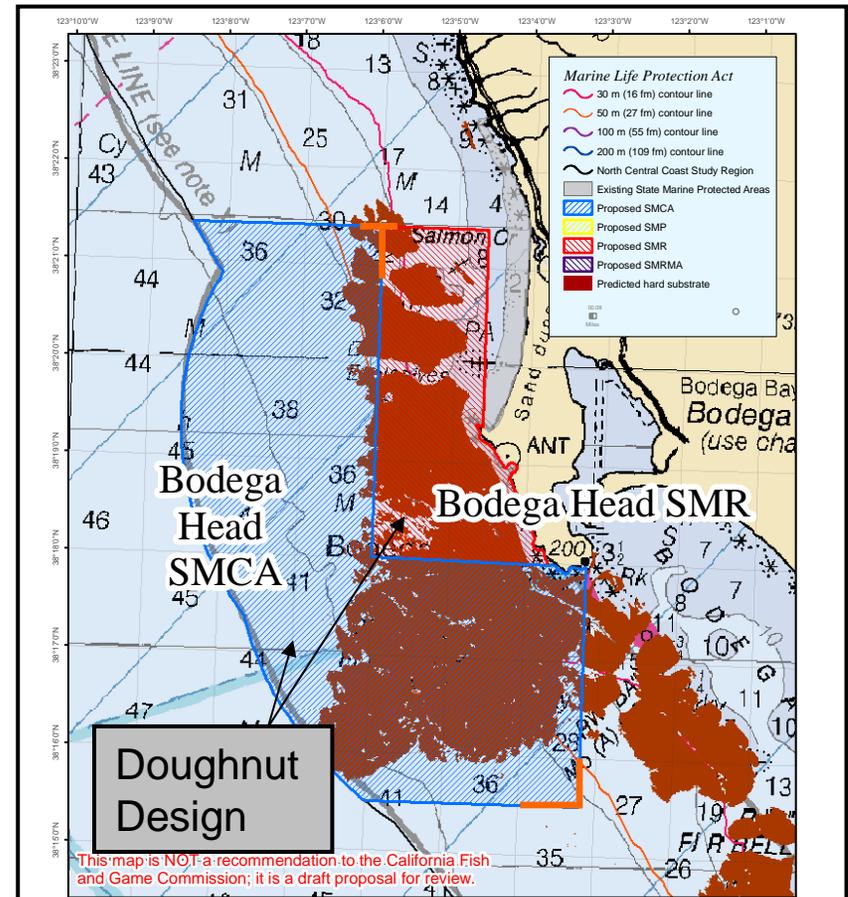
Examples: Doughnut Designs



Subregion 3 - Bodega Head to Double Point

Draft Proposal 4 (JC)

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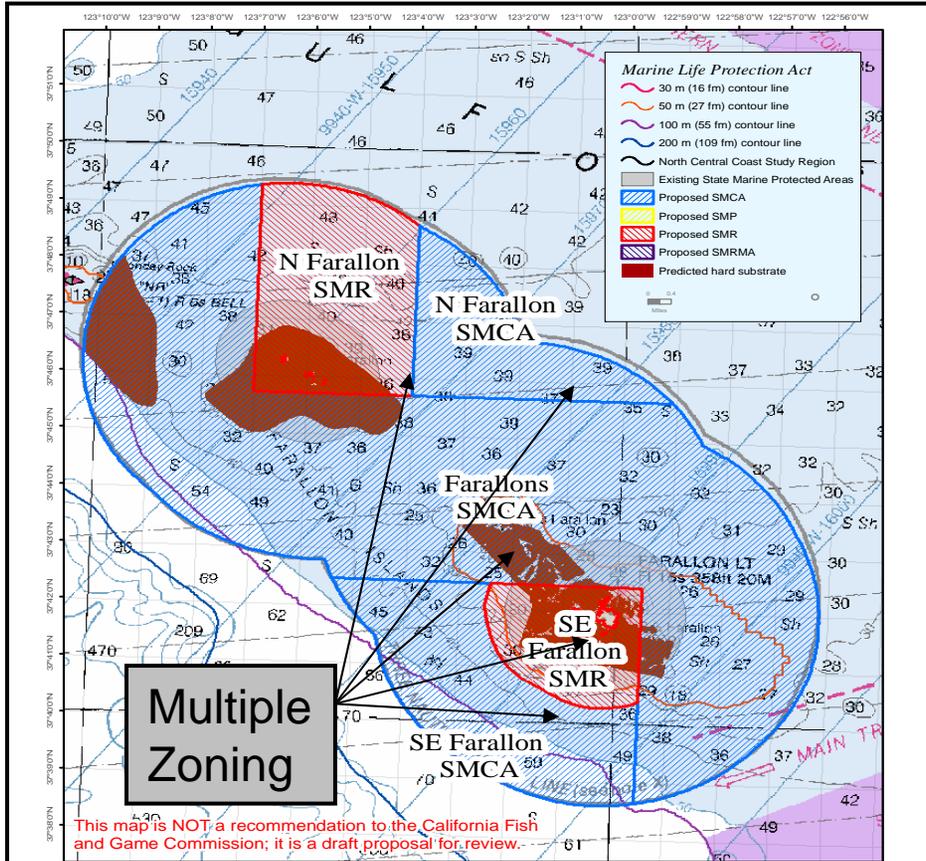
Subregion 2 - Horseshoe Point to Bodega Head

External Proposal A

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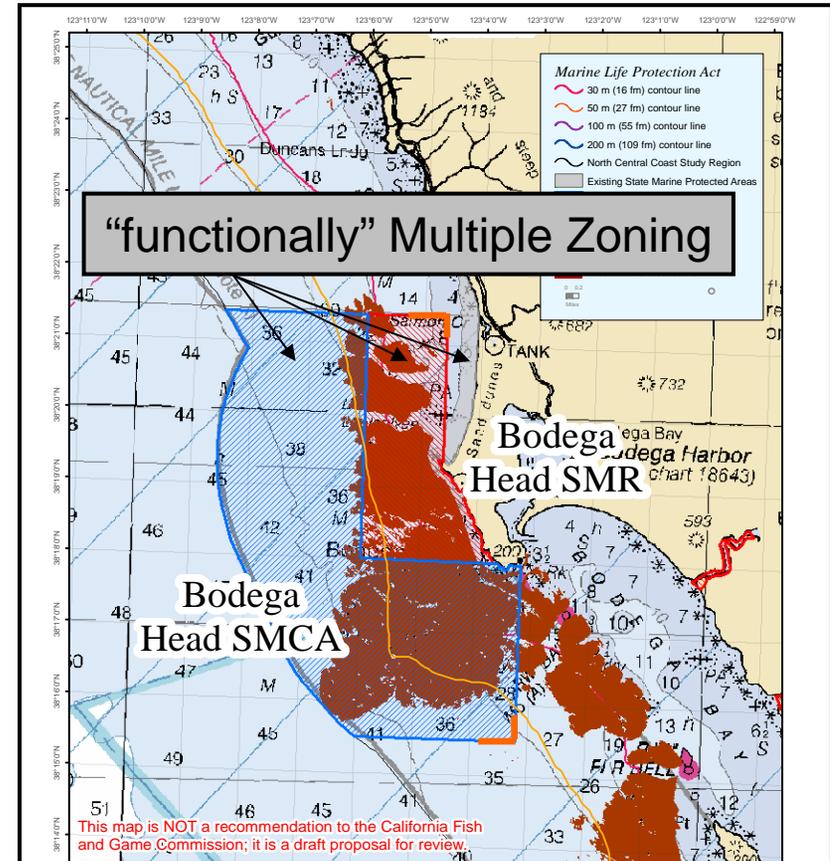
Examples: Multiple Zoning



Subregion 6 - Farallon Islands

Draft Proposal 3 (TC)

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Subregion 2 - Horseshoe Point to Bodega Head

Draft Proposal 2 (JD)

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Part 3 – Feasibility Checklist Tables

MPA Name	Boundaries Meet Guidelines	Frequently observed boundary types that do not meet feasibility guidelines					Boundary Descriptions Clearly Stated	Goals & Objectives Stated	Simple & Clear Regulations
		Doughnut Design	Multiple Zoning	Floating Corners	Unanchored Diagonal Lines	Other			
Pt Arena SMR				X			Y	Y	Y
Pt Arena SMCA				X			Y	Y	Y
Saunder's Reef inshore SMCA					X		Y	Y	N
Saunder's Reef offshore SMCA					X		Y	Y	Y
Del Mar Landing SMP						X	Y	Y	Y
Sea Ranch to Salt Point SMR	X						Y	Y	Y
Salt Point SMP	X						Y	Y	Y
Russian River SMR				X			Y	Y	Y
Bodega Head SMR					X		Y	Y	Y
Bodega Head SMCA	X						Y	Y	Y
Estero de Americano SMRMA	X						Y	Y	Y
Estero de San Antonio SMRMA	X						Y	Y	Y
Clam Island SMRMA						X	Y	Y	Y
Tomales Bay South SMRMA	X						Y	Y	Y
Point Reyes Headland SMR	X						Y	Y	Y
Point Reyes Headland SMCA	X						Y	Y	Y
Drakes - Limantour Estero SMR	X						Y	Y	Y
Double Point SMR		X	X		X		Y	Y	Y
Double Point SMCA		X	X		X		Y	Y	Y
Duxbury Reef SMCA		X	X				Y	Y	Y
Bolinas Lagoon SMR	X						Y	Y	Y
Fitzgerald SMR				X			Y	Y	Y
Devil's Slide SMCA				X			Y	Y	Y
N Farallon Island SMR	X						Y	Y	Y



Summary of Feasibility Elements (High % Desirable) – Draft MPA Proposals

Array Name	Total # of MPAs	Goals Defined (%)	Objectives Defined (%)	Simple & Clear Regulations (%)	Meets Boundary Guidelines (%)
Proposal 1 (EC)	26	100%	100%	96%	50%
Proposal 2 (JD)	22	73%	73%	100%	36%
Proposal 3 (TC)	30	100%	100%	93%	43%
Proposal 4 (JC)	25	100%	96%	92%	36%
External A	20	95%	95%	95%	40%
Average	25	94%	93%	95%	41%



Summary of Feasibility Elements (Low % Desirable) – Draft MPA Proposals

Array Name	Total # of MPAs	MPA's with Multiple Zoning or Doughnut Designs (%)	MPAs with Floating Corners (%)
Proposal 1 (EC)	26	12%	19%
Proposal 2 (JD)	22	27%	36%
Proposal 3 (TC)	30	27%	17%
Proposal 4 (JC)	25	28%	32%
External A	20	20%	35%
Average	25	23%	28%



Recommendations for Final MPA Proposals

1. Templates should describe boundaries, intentions to include or not include areas, trade-offs considered, reason guideline not followed (if applicable)
2. Template boundaries should match MPA images in GIS or charting software
3. Update new MPA designations
 - Existing aquaculture leases
 - Waterfowl hunting
4. Update existing MPAs incorporated into proposals
 - Boundaries
 - Regulations