

Marine Life Protection Act Initiative



Staff Methods for Evaluating Draft Marine Protected Area Proposals

Presentation to the
California Fish and Game Commission and the MLPA Blue Ribbon Task Force
February 13, 2008 • Pacifica, CA
Mary Gleason, Principal Planner, MLPA Initiative

Staff Role in Evaluations

- Compile guidance from Marine Life Protection Act (MLPA), master plan for marine protected areas (MPAs), task force, science team, and California Department of Fish and Game (DFG)
- Work with regional stakeholders to ensure submittals are acceptable and accurately reflect intent
- Provide science team with basic statistics of habitats captured, size of MPAs, and spacing between MPAs
- Generate maps and summary documents
- Conduct evaluation of components not addressed in master plan science guidelines (e.g., MLPA Goal 3 and fishery impacts)
- Coordinate quality control reviews

Evaluation/Summary Documents

Document	Source
Proposal Descriptions ("templates")	Staff/RSG
Habitat Calculations	Staff
Staff Summaries	Staff
Area Histograms	Staff
Maps and Proposed Regulations	Staff/RSG
Goal 3 Analysis	Staff
Feasibility Analysis	DFG
Abalone Analysis	DFG
Commercial/ Recreational Analysis (Ecotrust)	DFG
Goals 1 & 4 Analysis (Habitat Representation)	SAT
Goals 2 & 6 Analysis (Size and Spacing)	SAT
Birds and Mammals Analysis	SAT

Evaluation/Summary Documents

Document	Source
Proposal Descriptions ("templates")	Staff/RSG
Habitat Calculations	Staff
Staff Summaries	Staff
Area Histograms	Staff
Maps and Proposed Regulations	Staff/RSG
Goal 3 Analysis	Staff
Feasibility Analysis	DFG
Abalone Analysis	DFG
Commercial/ Recreational Analysis (Ecotrust)	DFG
Goals 1 & 4 Analysis (Habitat Representation)	SAT
Goals 2 & 6 Analysis (Size and Spacing)	SAT
Birds and Mammals Analysis	SAT

Proposal Descriptions

- Capture basic information for draft proposals:
 - Proponents and rationale for proposal
 - Proposed disposition of existing MPAs (retain, modify, eliminate)
- For each proposed MPA:
 - MPA name
 - MPA boundaries
 - Allowed/disallowed uses
 - SAT level of protection (assigned by SAT)
 - Regional goals and objectives MPA contributes toward
 - MPA-specific objectives

Habitat Calculations

Amount of habitat captured within each MPA

California Marine Life Protection Act Initiative
Habitat Calculations for Draft Proposal 2 (JD), December 12 version
Revised December 21, 2007

	How Measured	Pt Arena SMR	Pt Arena SMCA	Saunders Reef Inshore SMCA
GIS Identification Number		JD1	JD2	JD3
MPA Classification		SMR	SMCA	SMCA
SAT Level of Protection		10	6	2
SAT Evaluation Subregion		North	North	North
SAT Cluster ID		JD C1	JD C1	JD C2
Area	Area (mi2)	5.23	7.60	4.21
Alongshore Span	Linear (mi)	3.4	3.4	3.7
ESI Shoreline Length	Linear (mi)	2.12	0.00	5.72
Minimum Depth	Feet	0	153	0
Maximum Depth	Feet	175	324	130
Sandy or gravel Beaches	Linear (mi)	0.05	0.00	0.54
Rocky intertidal and cliff	Linear (mi)	2.07	0.00	5.19
Coastal marsh	Linear (mi)	0.00	0.00	0.00
Tidal flats	Linear (mi)	0.00	0.00	0.00
Surfgrass	Linear (mi)	0.00	0.00	0.00
Eelgrass	Area (mi2)	0.00	0.00	0.00
Estuary	Area (mi2)	0.00	0.00	0.00
soft 0 - 30m	Area (mi2)	0.03	0.00	0.03

Staff Summaries/Area Histograms

Basic summary statistics

Individual MPAs in Draft Proposal 3 (TC) (12/12/07 version)

MPA Name	Size (mi ²)	Along-shore span (mi) ^A	Depth range (ft)
Point Arena SMR	4.67	3.4	0-180
Point Arena SMCA	7.65	3.4	153-324
Saunders's Reef inshore SMCA	5.50	3.9	0-165
Saunders's Reef offshore SMCA	7.78	3.9	143-278
Del Mar Landing SMP	0.09	0.3	0-55
Black Point SMR	11.88	6.5	0-240

Draft MPA Proposals and Existing MPAs (Proposal 0) by Designation

Draft MPA Proposals and Existing MPAs (Proposal 0) by SAT Level of Protection

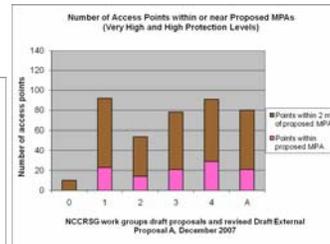
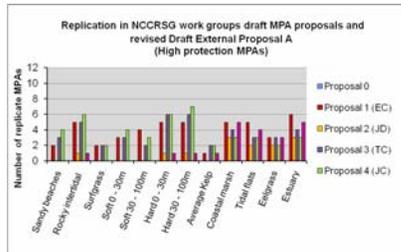
Maps and Proposed Regulations

Comparison across draft MPA proposals

Point San Pedro to Pigeon Point (alongshore)	Draft Proposal 3 (TC) (12/12/07 version)		Draft Proposal 4 (JC) (12/12/07 version)		Draft External Proposal A (01/02/08 version)	
	MPA Name (Level of Protection)	Proposed Regulations	MPA Name (Level of Protection)	Proposed Regulations	MPA Name (Level of Protection)	Proposed Regulations
	Moos Beach State Marine Reserve (Very High)	No take	Fitzgerald-Devils Slide State Marine Reserve (Very High)	No take	Fitzgerald State Marine Reserve (Very High)	No take
	Moos Beach State Marine Conservation Area	Salmon trolling, crab, and squid, commercial and recreational	Fitzgerald-Devils Slide State Marine Conservation Area	Salmon trolling, crab, coastal pelagics and squid (commercial & recreational)	Fitzgerald State Marine Conservation Area	Salmon trolling, anchovy, sardine, herring, dungeness crab (All applies)

Goal 3 Analysis

Recreational, educational, and study opportunities



Summary

- Staff analyses and summaries present basic information and statistics
- Provide basis for other evaluations
- Goal 3 analysis addresses MLPA goal not evaluated by SAT