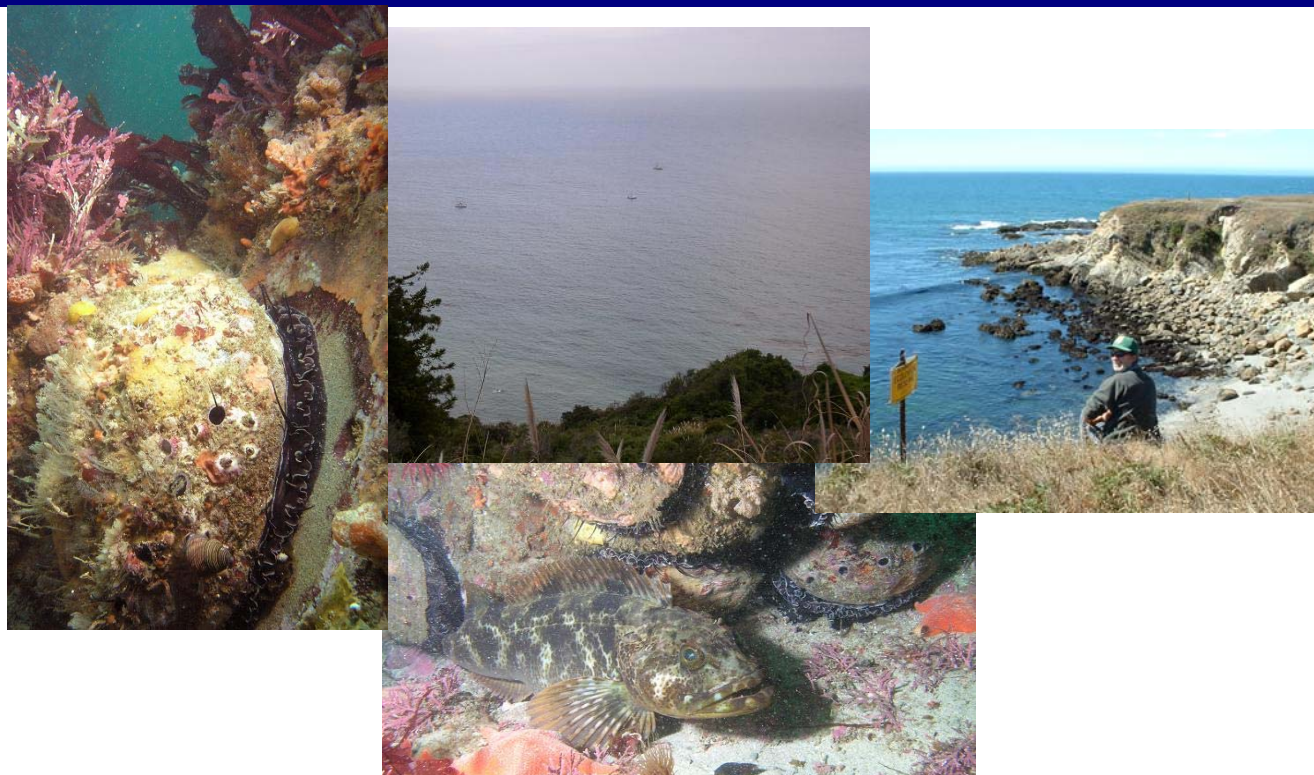




Marine Life Protection Act



Preliminary Evaluation of Existing North Central Coast Study Region Marine Protected Areas

Presentation to the North Central Coast Regional Stakeholder Group

July 10-11, 2007 • Pacifica, CA

Jason Vasques – Associate Marine Biologist
Marine Region

California Department of Fish and Game



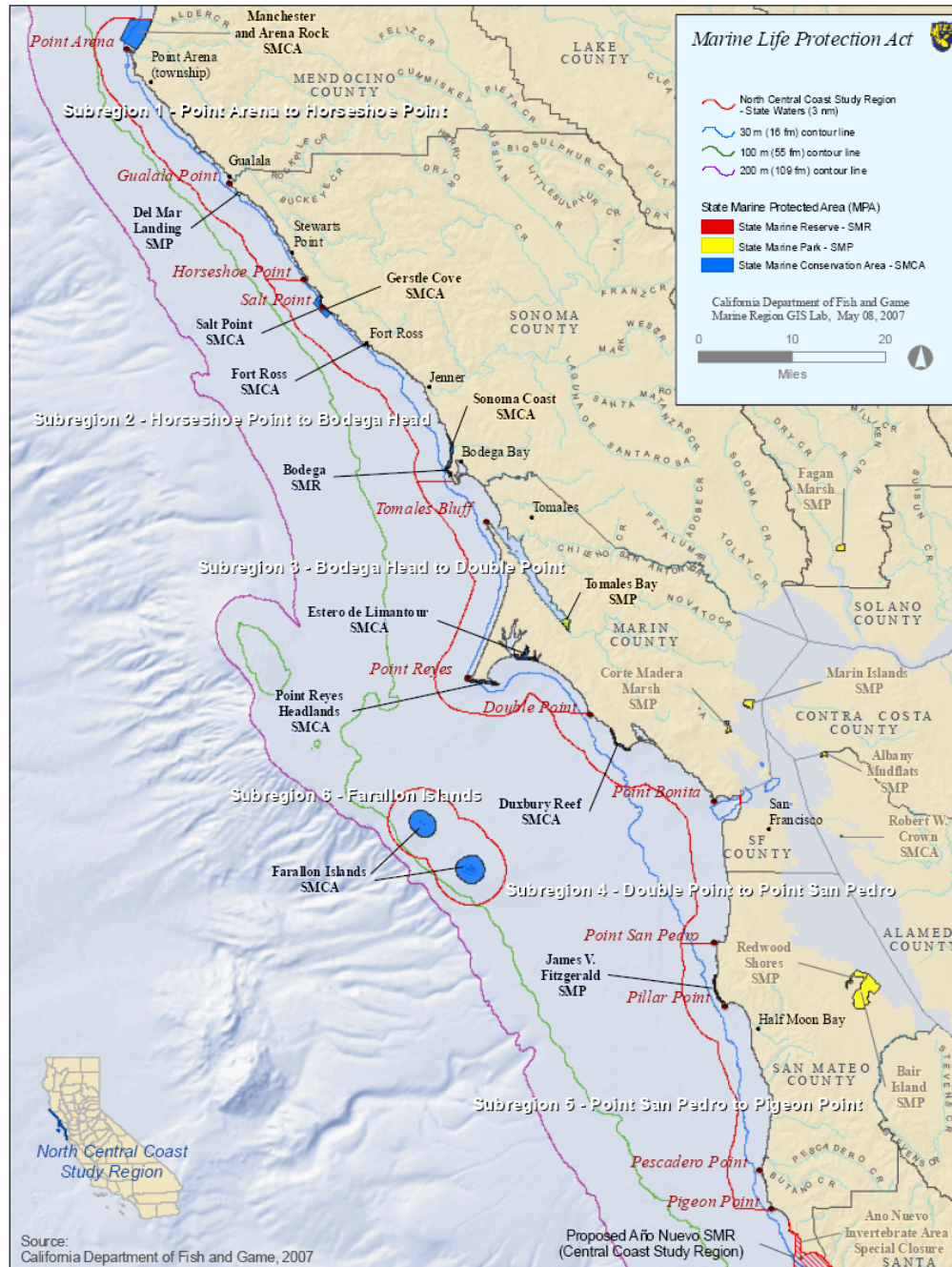
Summary of MPAs in the NCCSR

Type of MPA	# MPA	Area (mi ²)	% of Study Region
State Marine Reserve (SMR)	1	0.28 mi ²	0.04%
State Marine Park (SMP)	3	1.49 mi ²	0.19%
State Marine Conservation Area (SMCA)	9	25.12 mi ²	3.29%
All MPAs Combined	13	26.88 mi²	3.52%

NCCSR = North Central Coast Study Region



Map of Existing NCCSR MPAs

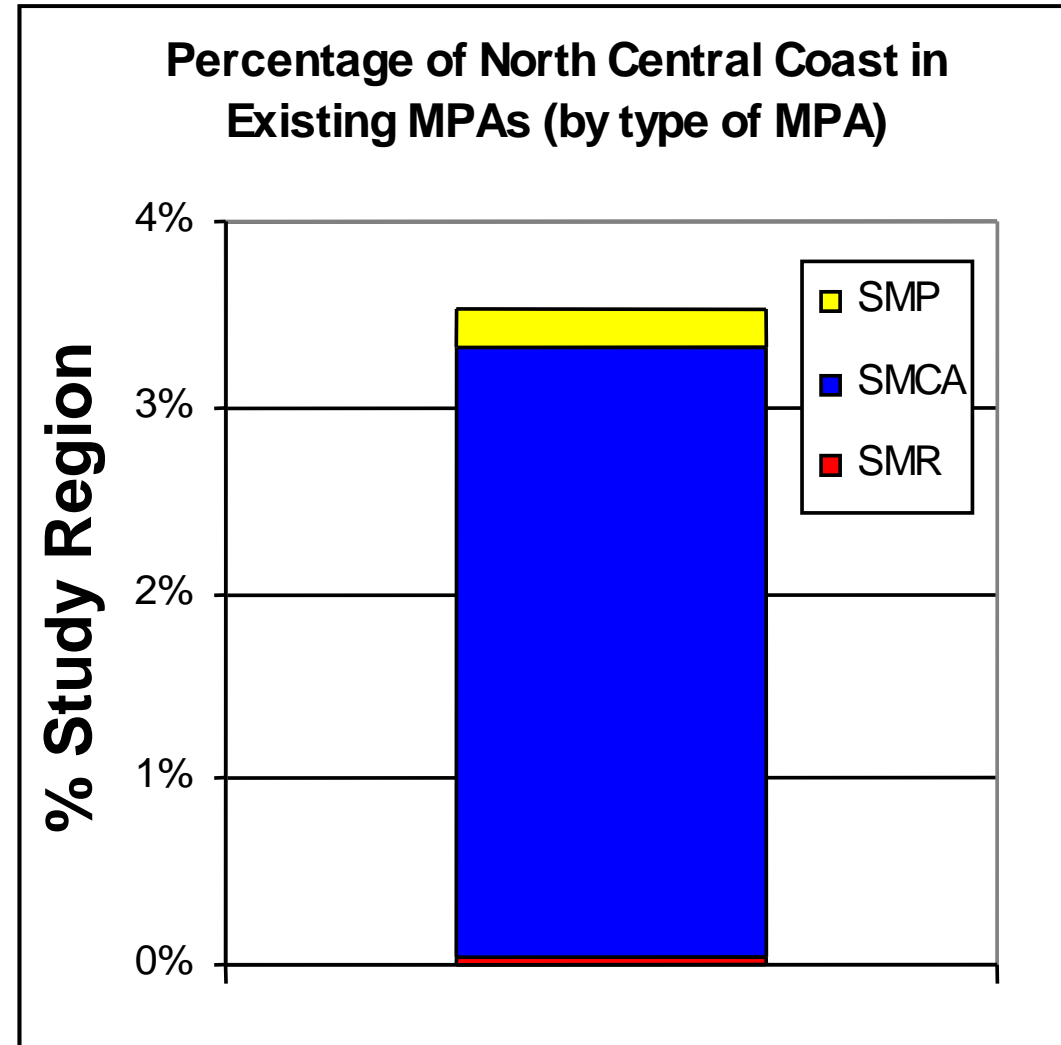




Percent by MPA Type

Types of MPAs:

- State Marine Reserve (SMR)
- State Marine Park (SMP)
- State Marine Conservation Area (SMCA)





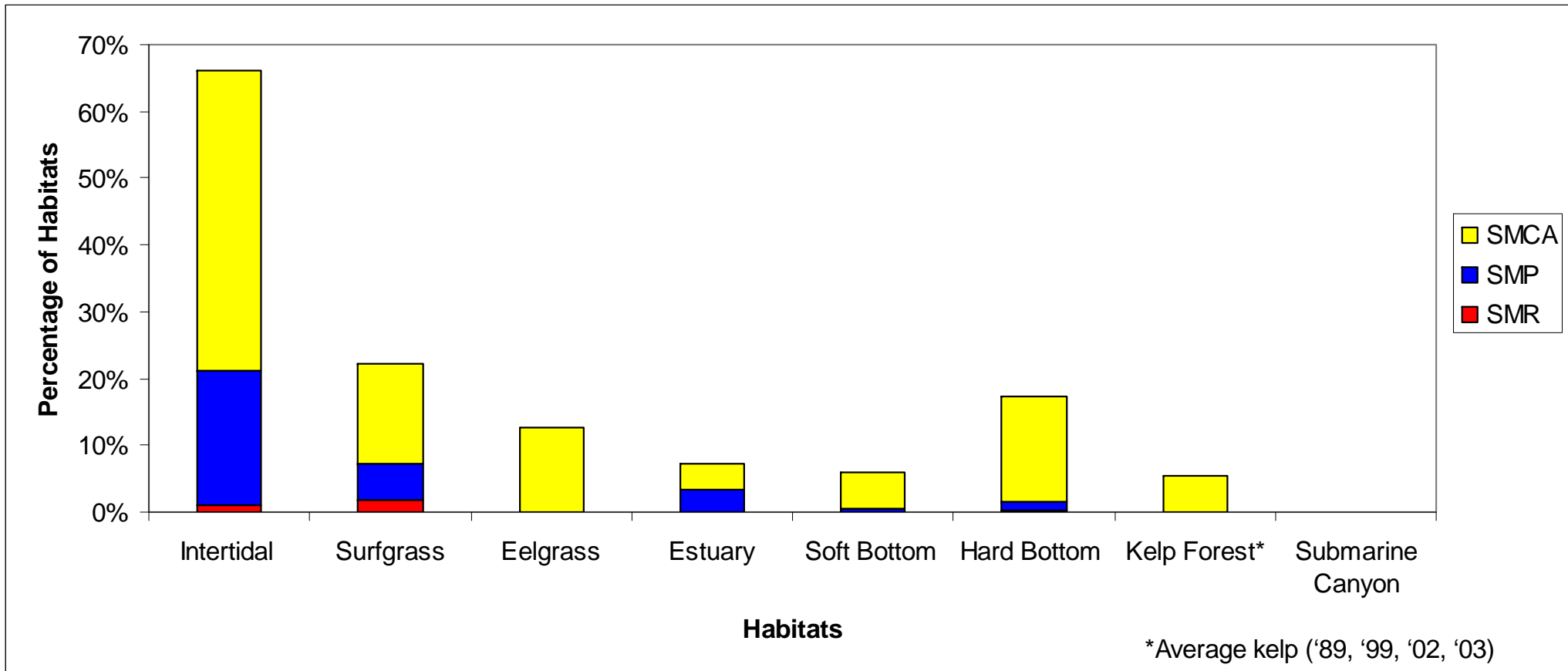
NCCSR MPAs - Size and Depth

MPA Name	Size (mi ²)	Along-shore Span (mi) ^A	Depth Range (ft)
Manchester and Arena Rock SMCA	6.68 mi ²	3.0 mi	0-141 ft
Del Mar Landing SMP	0.09 mi ²	0.3 mi	0-55 ft
Salt Point SMCA	1.63 mi ²	2.2 mi	0-182 ft
Gerstle Cove SMCA	0.01 mi ²	0.1 mi	0-3 ft
Fort Ross SMCA	0.11 mi ²	0.9 mi	0-32 ft
Sonoma Coast SMCA	0.89 mi ²	3.3 mi	0-14 ft
Bodega SMR	0.28 mi ²	1.1 mi	0-30 ft
Tomales Bay SMP	0.63 mi ²	1.2 mi	0-3 ft
Point Reyes Headlands SMCA	0.79 mi ²	3.1 mi	0-80 ft
Estero de Limantour SMCA	0.86 mi ²	3.1 mi	0-3 ft
Duxbury Reef SMCA	0.66 mi ²	3.0 mi	0-6 ft
James V. Fitzgerald SMP	0.76 mi ²	3.4 mi	0-31 ft
Farallon Islands SMCA	13.51 mi ²	5.1 mi	0-244 ft



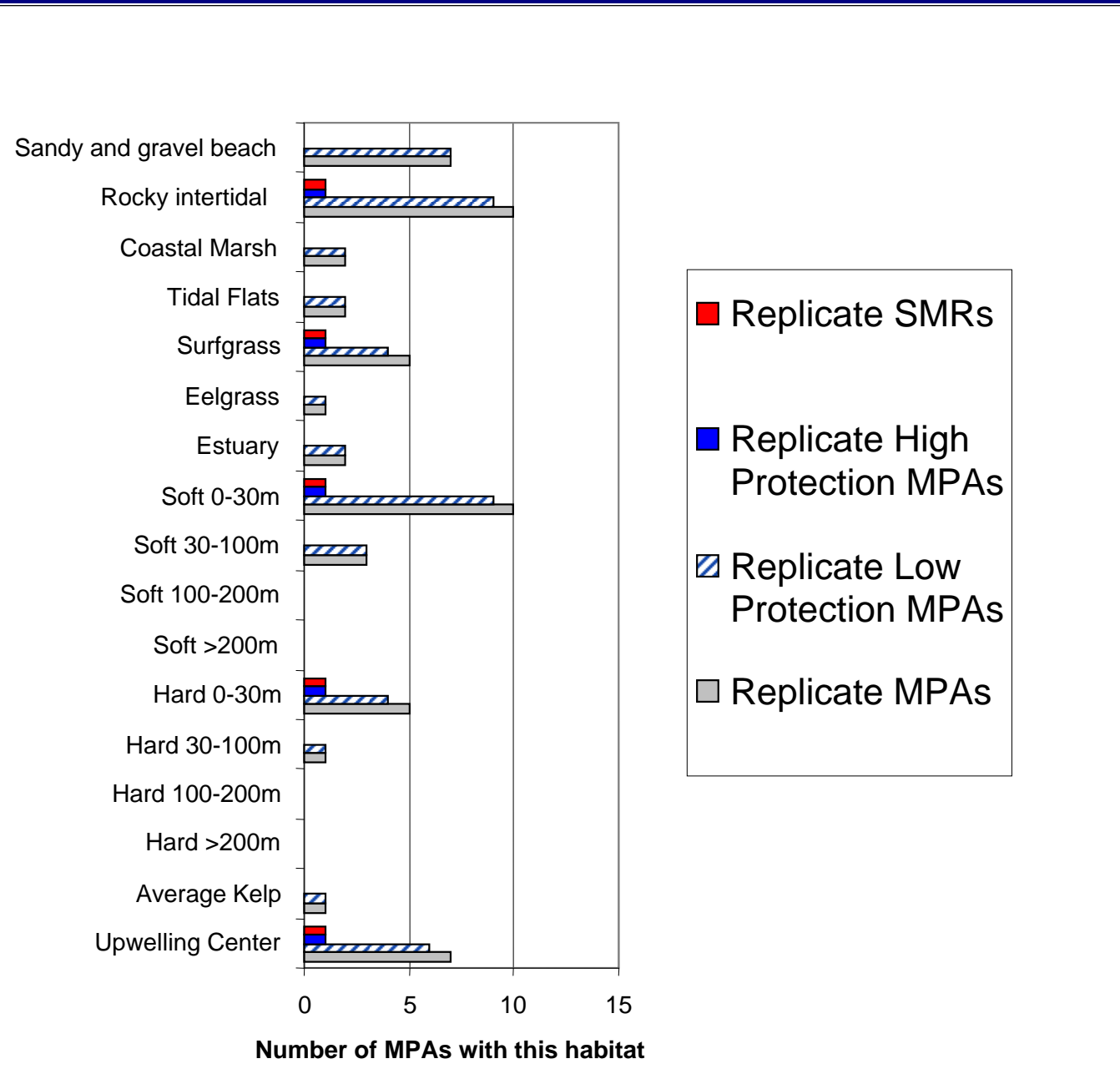
Habitat Protection

Percentage of habitats included in the existing NCCSR MPAs





Habitats in NCCSR MPAs





DFG Feasibility Guidelines

- MPA effectiveness is influenced by boundary design
 - can boundaries be feasibly implemented
 - understood by the public
 - enforced
- DFG provided feasibility guidelines in the Statement of Feasibility Criteria



DFG Feasibility Guidelines

Design elements that **increase** feasibility include:

- Boundaries
 - Straight lines
 - Easily recognizable landmarks
 - Multiple zoning of adjacent areas
- Regulatory simplicity
- Accessibility
- Siting within, adjacent to, or near special management areas



Summary of Feasibility Analysis

Design elements that **decrease** MPA feasibility are :

- MPAs which do not extend protection offshore into adjacent subtidal waters
- The use of depth contours or distance offshore as boundary delineations
- Complex regulations
- Differing levels of protection within a protected area (i.e. doughnut zones)
- Boundary points at areas which are not readily recognizable (such as landmarks or points of easily recognized latitude and longitude)



DFG Feasibility Guidelines

Intertidal and shallow nearshore MPAs:

- MPAs which include only intertidal or nearshore waters that do not extend offshore into the adjacent subtidal waters are not recommended



Summary of Feasibility Analysis

None of the existing MPAs in the NCCSR meet all of the feasibility criteria outlined in the DFG Statement of Feasibility

Type of MPA	Boundary Issues*	Complicated Regulations*	Accessibility Issues*	Intertidal MPAs*
State Marine Reserve (SMR)	1 (1)	1 (1)	0 (1)	1 (1)
State Marine Park (SMP)	2 (3)	2 (3)	1 (3)	2 (3)
State Marine Conservation Area (SMCA)	8 (9)	9 (9)	2 (9)	8 (9)
All MPAs Combined	11 (13)	12 (13)	3 (13)	11 (13)

*Total number of MPAs are in parentheses

