Marine Life Protection Act Initiative



Overview of Evaluation Methods for Potential Impacts to Commercial and Recreational Fisheries

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Project Overview

- Ecotrust contracted by the MLPA Initiative to:
 - Supplement existing data
 - Collect data on commercial and recreational fishing (use and values) to characterize the spatial extent and relative importance
 - Evaluate the maximum potential negative economic impact (gross and net) of alternative marine protected area (MPA) proposals
 - Focus is on the fisheries, and not on regional multipliers of economic impact

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Survey Summary Statistics

Commercial Fisheries

- 219 interviews resulting in 440 individual fishing grounds
- Sample representation: number of fishermen and percent (%) of total ex-vessel revenue, 2000-2008:
 - 1. Dungeness crab/trap: 141 fishermen (61%)
 - 2. Urchin/dive: 32 fishermen (59%)
 - 3. Salmon/troll: 86 fishermen (35%)
 - 4. Rockfish/fixed gear: 55 fishermen (68%)

Commercial Passenger Fishing Vessel (CPFV)

- 22 CPFV captains interviewed
- Approximately 73 individual fishing grounds



Survey Summary Statistics

Recreational fisheries:

- 574 fishermen completed on-line survey
- 1,592 individual fishing grounds (IFG)
- Fishermen could provide information for more than one user group
 - Dive: 140 fishermen (209 IFG)
 - Kayak: 20 fishermen (33 IFG)
 - Private vessel: 527 fishermen (1,305 IFG)



MPA Impact Analyses

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Commercial Fisheries

- Maximum potential impacts on fishing grounds (area and value)
- Maximum potential socioeconomic impacts (*gross and net)
- Disproportionate impacts to fisheries and *individuals
- Consideration for existing fishing closures

Recreational Fisheries

- Maximum potential impacts on fishing grounds (area and value)
- * Maximum gross potential economic impact and disproportionate impacts to individuals are not evaluated for CPFV fisheries



MPA Impact Analyses

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- Based on the fishing grounds and cost estimates derived from the data collection effort:
 - Distinguish between total fishing grounds and fishing grounds inside state waters
 - Determine percent area and value impacted
 - Consider or identify "outliers" i.e. fishermen or fisheries likely to experience disproportional impacts
 - Effect of existing fishery management area closures and other constraints on fishing grounds (rockfish conservation areas and existing MPAs)



Summary

Approval sought for:

- Evaluation and description of the evaluation methods which is to be inserted into the Methods Used to Evaluate MPA Proposals in the North Coast Study Region as Chapter 12 and Appendix C
- Evaluation will be applied to round 1 evaluation of external MPA arrays – and subsequent rounds of evaluation of MPA proposals