Marine Life Protection Act Initiative

Commercial Fishing Grounds and Socioeconomic Data Collection

Presentation to the North Central Coast Regional Stakeholder Group
November 28, 2007 • San Rafael, CA
Prepared by Dr. Sarah Kruse, Ecotrust
Outline

• Overview – Survey design
• Updated analysis of the fishing grounds
• Status and results
• Next steps
Commercial - Survey Design

• Identify 8 fisheries in the region
  – Differentiate in terms of practices (target strategy) and/or gear configurations

• Stratified study area into 5 geographic regions
  – Point Arena, Bodega Bay, Bolinas, San Francisco, & Half Moon Bay

• At least 50% of the total landings and/or ex-vessel revenue from 2000-2006 by fishery, gear type, and port complex

• At least 5 fishermen, except in cases where the sample population is fewer than 5
NCC Study Region Commercial Fisheries

- California Halibut
- Coastal Pelagics
- Market Squid
- Rockfish – Deeper Nearshore
- Rockfish – Nearshore
- Urchin
- Dungeness Crab
- Salmon
Analyzing the Fishing Grounds

• Same method of analysis as developed in central coast process – i.e. creating a weighted surface that represents the stated importance of different areas for each fishery

• Measure of weighting:
  – Multiply the values by the proportion of in-study region landings - ex-vessel revenue per fisherman, specific to each fishery/port (a crude revenue based measure)
In order to evaluate the potential economic impacts, we attribute a fisherman’s grounds to each port at which they have landed over the last 7 years (2000-06).

If Fisherman A has landed Salmon in both Bodega Bay and San Francisco:
- Then their shapes are used in both maps and weighted based on the percentage of their landings reported to each port over the last 7 years.
Update of Fishing Grounds Analysis

- Maps for each port now represent the fishermen who land there, not the fishermen whose homeport it is.

- Reason: Pounds and ex-vessel revenue are reported and attributed to where fish are landed, not by the homeport of the fishermen.

- Homeport information is captured during our interviews, but we don’t know what proportion of the total population interview participants represent.
Analyzing the Fishing Grounds

- Maps are in sets for each fishery (see handout)
  - One map of the fishery for the entire region
  - A map for each fishery specific to each landing port in which that fishery occurs
  - Both study region and port specific maps are available and should be considered
  - Total number of datasets – 34 (both study region and by port)
Review of the Fishing Grounds

• Maps have been as thoroughly reviewed as possible, verified by both select fishermen and groups of fishermen.
  – All maps are now available to RSG members through GIS workgroup sessions

• These are final maps (Please note, although not expected, some changes could still occur)
Next Steps

- Final report
  - Methods paper
  - Additional summary statistics
  - Port profiles