

# 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

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# 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)

# Update of Fishing Grounds Analysis

- 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