Update on MLPA Master Plan
Science Advisory Team (SAT) Activities

Presentation to the MLPA Blue Ribbon Task Force

Mary Gleason, Principal Planner • MLPA Initiative
April 22, 2008, BRTF • San Rafael, CA
SAT Meetings

Prior Meetings -
• June 26, 2007
• August 16, 2007
• September 17, 2007
• October 1, 2007
• November 13, 2007
• January 8, 2008
• January 23, 2008
• April 3, 2008 - update

Upcoming Meeting -
• May 30, 2008
April 3, 2008 SAT Meeting Agenda

- Species likely to benefit from MPAs
- SAT evaluation methods
- Review of SAT evaluation of NCCRSG MPA proposals
- Review of modeling results (NCCRSG proposals)
- Science questions
Species Likely to Benefit List

Added new species to list for north central coast:

• Barred surfperch

Discussed these species, but decided not to add to list of species likely to benefit:

• Flat abalone
• Northern abalone
• White shark
SAT Evaluation Methods

Review of SAT portion of Evaluation Methods document

• Level of Protection (LOP)
  – Discussed how to operationalize salmon trolling in <50m
  – Included pelagic finfish (hook and line) within the High (at >50m depth) and Mod/High (at <50m depth) LOP
  – Assigned depth rule to coastal pelagic finfish (pelagic seine)
  – Croaker by any hook and line method and smelt by any hook and line method and hand/dip nets assigned “Moderate”

• Mariculture
  – Discussed revisions to document text on mariculture based on new information received
  – Retained existing level of protection assignment for mariculture (using existing methods)

• Socioeconomics
  – Discussed incorporating some text revisions on Ecotrust analysis
# Levels of Protection

<table>
<thead>
<tr>
<th>Level of Protection</th>
<th>MPA Types</th>
<th>Activities associated with this protection level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very high</td>
<td>SMR</td>
<td>No take</td>
</tr>
<tr>
<td>High</td>
<td>SMCA</td>
<td>In water depth &gt; 50m: <em>pelagic finfish by hook and line</em> (salmon by troll only); coastal pelagic finfish by seine</td>
</tr>
<tr>
<td>Moderate-high</td>
<td>SMCA</td>
<td>In water depth &lt; 50m: <em>pelagic finfish by hook and line</em> (salmon by troll only); <em>coastal pelagic finfish by seine</em>; Dungeness crab (traps/pots), squid (pelagic seine)</td>
</tr>
<tr>
<td>Moderate</td>
<td>SMCA SMP</td>
<td>salmon (non-troll H&amp;L); abalone (diving); halibut, white seabass, shore-based finfish, <em>croaker</em>, and flatfishes (H&amp;L); <em>smelt (H&amp;L and hand/dip nets)</em>; clams (hand harvest); giant kelp (hand harvest)</td>
</tr>
<tr>
<td>Moderate-low</td>
<td>SMCA SMP</td>
<td>Urchin (diving); lingcod, cabezon, greenling, rockfish, and other reef fish (H&amp;L); surfperches (H&amp;L)</td>
</tr>
<tr>
<td>Low</td>
<td>SMCA SMP</td>
<td>bull kelp and mussels (any method); all trawling; giant kelp (mechanical harvest); mariculture (<em>existing</em> methods)</td>
</tr>
</tbody>
</table>
SAT reviewed presentations on evaluations of:

- Habitat Representation & Replication (Goals 1 and 4)
- Size and Spacing (Goals 2 and 6)
- Marine Birds and Mammals (Goal 2)
- Socioeconomics
SAT reviewed presentations and synthesis document on results of using two models to evaluate NCCRSRG MPA proposals:

- Equilibrium Delay-difference Optimization Model (Costello, Walters, Hilborn)
- Population Sustainability and Yield Model (Botsford)

Discussed work group recommendations to BRTF on use of models for planning and evaluation
Science Questions

- SAT approved responses to final science questions from NCCRSRG
- SAT discussed some potential MLPA South Coast Study Region science questions
Next Steps

• Finalize evaluation methods document
• Finalize SAT evaluations of north central coast proposals forwarded to the California Fish and Game Commission, as needed
• Department of Fish and Game director has asked current SAT members about their interest in serving on the SAT for south coast