MPA Decision Support Tools

North Central Coast Regional Stakeholder Group
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Mary Gleason, Principal Planner • California MLPA Initiative
Tools and Support Available

- Hardcopy maps, charts
- Internet map service site (view all data layers at [www.marinemap.org/mlpa](http://www.marinemap.org/mlpa))
- Doris – MPA decision support tool (view data layers, draw candidate MPAs or candidate arrays of MPAs)
- MLPA Initiative team – planning support, GIS analysis, facilitation
- SAT – scientific input and evaluation
- BRTF – policy and guidance
A decision support tool can be anything that helps to inform and support good decision-making.

Some specific software / Internet tools available for your use:

- Internet mapping service site – view data layers
- Doris (MPA decision support tool)
- California coastline aerial photos at www.californiacostline.org
- Google Earth – imagery of study region
Presentations at August 16, 2007 SAT meeting:
  • Marxan/Marzone – optimization software to identify areas to meet specific goals (A. Scholz)
  • Single-species fisheries models (R. Hilborn, C. Walters)
  • Population sustainability models (L. Botsford)
  • Biological-economic models (C. Costello)

Utility of other models in proposal evaluation being discussed at future SAT meetings
Doris: MPA Decision Support Tool

• Doris – web-based tool
  – View data layers
  – Draw candidate MPAs and “Arrays”
  – Get reports on features captured
• Developed during central coast process
• Funding
  – MLPA Initiative
  – National MPA Science Center
  – Monterey Bay Sanctuary Foundation
• Developed by
  – IM Systems Group, Inc.
  – MLPA Initiative, state, and federal staff
“Doris” is a sea nymph from Greek mythology who represented the bountiful ocean.
Instructions

Step 1: Choose a Study Area
Select a study area. This will default the map to the area of interest.

Step 2: Add Map Layers
Add the map layers that you are interested in capturing in your candidate Marine Protected Area (MPA).

Step 3: Draw your MPA
Draw your own MPA or add existing candidate MPAs.

Step 4: Create a system or array of MPAs
Create and name a new system of MPAs. Add you new MPAs or existing MPAs to your array.

Step 5: Create or Load a Report
Select from existing reports or create a report based on your layers that you selected.

Step 6: View Reports
View statistics and compare percentages to determine if your MPA(s) provided the desired outcome.
Select Study Area
Add, Remove, Display Layers
Create Candidate MPAs

MPAs drawn outside the regional boundary can be “clipped”
Create Candidate MPAs
Candidate MPAs can be kept private (only viewable with your password) or shared ("published") so others who log on can see...
Adding MPA Details

Dôris MARINE PROTECTED AREAS DECISION SUPPORT TOOL

MPA Details

View or Edit information about the selected MPA. Click the “Save” button to save changes or click “Cancel” to close window without saving changes.

Name: TestMPA_002

Designation of MPA:
- Marine Conservation Area
- Marine Reserve
- Marine Park
- Other
- New Designation

Description: This area needs further consideration

Boundaries: Northern boundary at well defined point near Sydney, California, southern boundary through existing buoy

Allowable Uses: Need to consider this further, come back to area later

Save  Cancel
Combining Candidate MPAs into “Arrays”

Selecting candidate MPAs to include in an “array”. Editing candidate arrays.
Building Reports
Viewing Reports

Only selected candidate MPAs or arrays will appear in a report.
Types of Reports

- Habitat
- Select species
- Recreational fisheries
- Commercial fisheries
- Cultural
Summary

• Doris (and the IMS site) will be updated with new information as it becomes available
  – We will notify you of updates
• New report formats and improvements still underway
  – We welcome your suggestions
• Individual passwords provided
• Breakout session for closer look at tool