

MAMA - MIP

Ideas for a proposal

Rome, 6 June 2003

Marine Research project

- Mediterranean and Black Sea
- Focus on needs of coastal states
- Mainly in coastal seas
- Embedded seamlessly in whole basin
- Develop new technologies
- Apply them to local problems

Types of user needs

- Chronic pollution
- Acute pollution - accidents
- Fish stock depletion
- Aquaculture
- Coastal development
- Dredging
- Coastal erosion
- Coastal conservation

Requirement

- To provide scientific advice to decision-makers
- Focus on a particular problem in a coastal state
- Identify options for action
 - Including no action (Business as usual)
- Run Mediterranean model adjusted for this problem
- Set of runs with scenario adjusted for each action
- Identify consequences of each action
 - Including secondary effects

PrEMed

Predicting the Ecosystem of the Mediterranean

Advanced technology ocean ecosystem model

What-if? prediction

to support local managers

Ecosystem

Biological primitive equations

Resolution varying in space and time

According to local needs

Seamless from open ocean to coastal zone

Not based on nesting

MAMA

- Established community of all Mediterranean
- Combined human resources for PrEMed
- Local user needs
- Working together to specify PrEMed
- Communications with decision-makers

Using Virtual Plankton Ecology for environmental impact assessments

Chronic pollution
Acute pollution
Fish stock decline
Dredging
Coastal develop.
Coastal erosian



Specify products

PROBLEM

Proposed action

Proposed action

Proposed action

Options

