

CARICOOS: Fishers and MPAs

Manuel Valdés Pizzini
Puerto Rico Sea Grant
&
Interdisciplinary Center for Coastal Studies
(CIEL)



Areas of Need





 Marine Protected Areas

 Fisheries







 The Caribbean as Regions and as a Large Marine Ecosystem



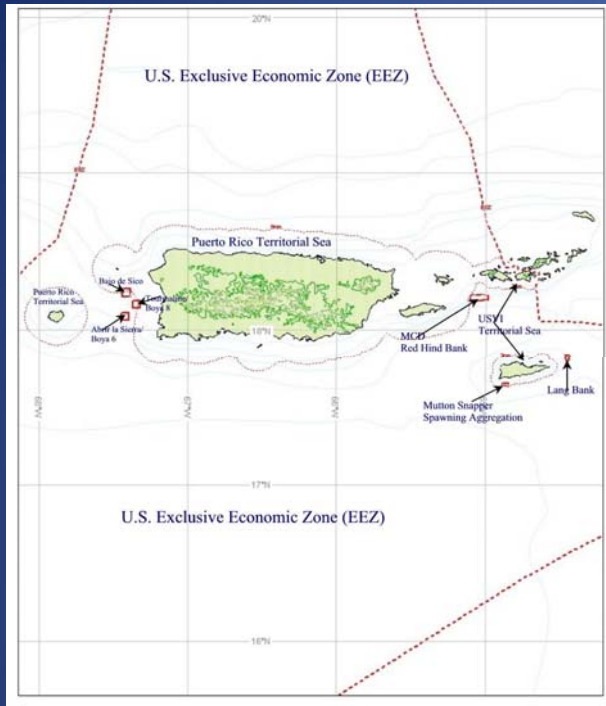
Marine Protected Areas

-  Measurements of coral cover
-  Temperatures and vulnerability of coral reef populations
-  Models of currents, wave action
-  Models of larval dispersal and transfer of volumes of plankton

Marine Protected Areas

-  Monitoring of oceanographic conditions in spawning of fishes and corals
-  Status of MPAs (research, conservation and political dimensions of the information)
 -  How is your MPA doing?
 -  Indicators, physical parameter and success
 -  Management
-  Specific regional observations (the Mona Passage) and the potential for the understanding of the ecosystem

Mona Passage



Oceanic islands

Currents and temperatures

Sea mounds

Fishing grounds

Biodiversity and depth of coral reefs

Spawning areas

Navigation lanes

Connectivity

Recreation

MPA and Closures

Fishing communities



Oceanographic conditions in the
Mona Passage



Currents and weather






Nutrients and pelagic fishes for
both,

recreational and commercial fishers



Monitoring vulnerability

Fishing communities

-  Water quality and sediment load
-  Traditional Ecological Knowledge,
Science and CARICOOS
-  Erosion rates and prediction of loss
and impacts to coastal communities

Potential media for dissemination

-  *Marejada* (The Swell)
-  *Fuete y Verguilla* (The Vertical Line)
-  UPR Sea Grant Web Page
<http://seagrantspr.org>
-  CIEL Weblog:
<http://amp-pr.org/ciel>
-  The Human Dimension Blog
(In the process of changing address)