Integrated Planning for Sustainable Marine and Coastal Area Management in Antigua and Barbuda CHALLENGES



Expert Group Meeting on Implementing Rio 20+: Integrated Planning for Sustainable Marine and Coastal Area Management in the Caribbean 17 – 18 March 2014

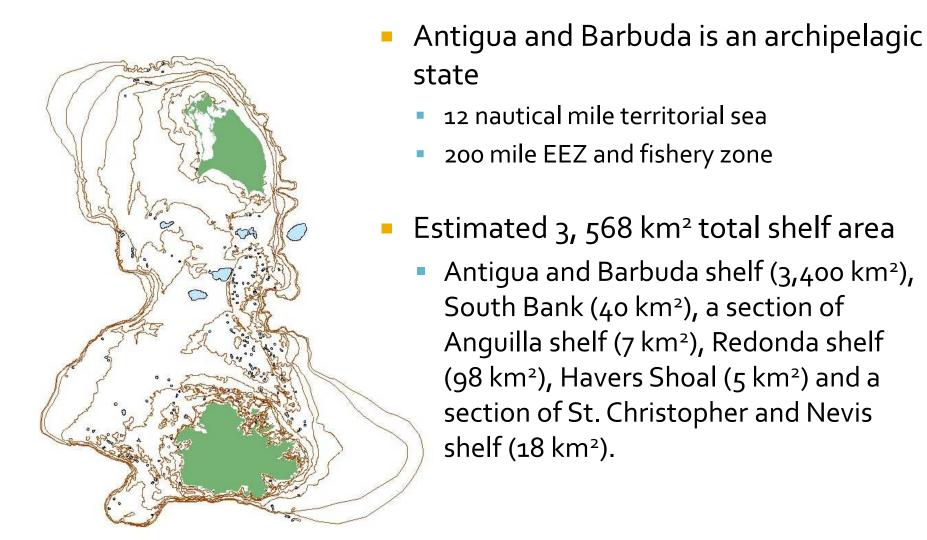
Presentation Outline

- Profile of the Physical Environment (Marine and Coastal)
- Use of the Coastal and Marine Areas (Antigua and Barbuda)
- Changing Coastal and Marine Environment
- Antigua and Barbuda's Coast: Conflicting Uses
- Critical Habitats Antigua and Barbuda
- Natural Threats
- Human related Threats
- Legal and Institutional Issues
- Desirable Changes for the Future





Profile of the Physical Environment (Marine and Coastal)



Use of the Coastal and Marine Areas (Antigua and Barbuda)

- Coastal zone is the most heavily populated area of Antigua and Barbuda
- Marine and coastal areas also location of most industrial activity and often conflicting uses
 - Tourism
 - Fishing
 - Sailing/Marinas
 - Military operations
 - Power generation
 - Water production
- Also area of some of the most critical habitats and ecosystems (Coral Reefs, Sea Grass, Beaches, Mangroves)

Changing Coastal and Marine Environment

- Over the past 3 decades Antigua and Barbuda's coastline has undergone a significant transformation
- Severe destruction of key habitats
- User conflicts

Antigua and Barbuda's Coast: Conflicting Uses



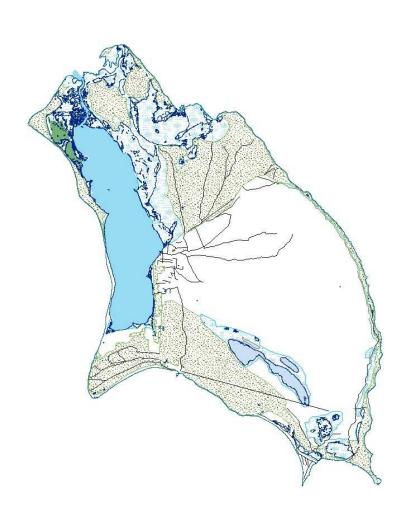




Critical Habitats Antigua



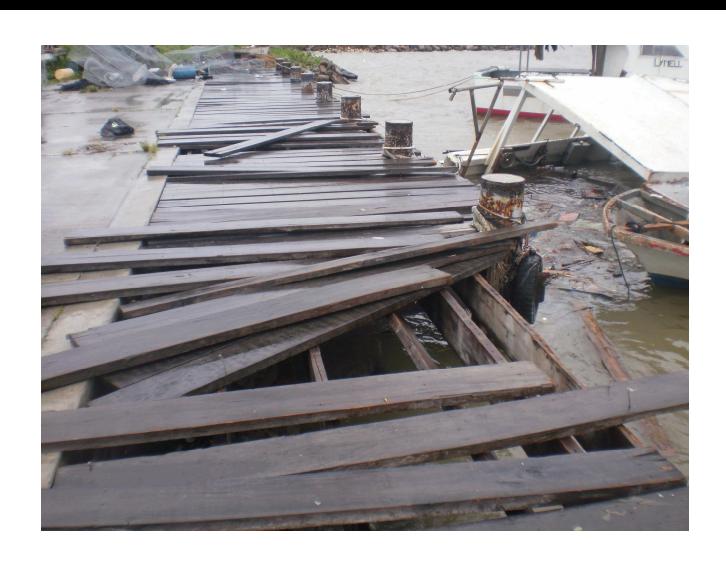
Critical Habitats in Barbuda



Natural Threats

- Climate Change
 - Physical damage from hurricanes and storms
 - Flooding
 - Increases sediment loading
 - Water pollution
 - Impact coral reefs, sea grass, mangroves
- Coastal Erosion

Physical damage from hurricanes and storms



Flooding



Coastal Erosion



Human-Related Threats

- Pollution and Effluent Discharge
- Habitat Alteration and Destruction
- Poor Fishing Practices
- Introduction of Invasives
- Legal and institutional issues

Marine Pollution and Effluent discharge



Complete Habitat Destruction



Coral Reef Degradation



Poor Fishing Practices / Bycatch



Alien Invasive Species



Legal and Institutional Issues

- Several Agencies Involved
- Agencies mandated by Different Legislations
- Foci of Agencies Differ
- Relatively Weak
 Cooperation /
 Collaboration between
 agencies

National Parks Authority
Fisheries Division
Tourism Department
Development Control Authority
Environment Division
Barbuda Local Gov't Council
Forestry Unit
Port and Airport Authorities

Various Line Ministries

Desirable Changes for the Future

- Need for a PA Capacity Assessment and Development
- Development of a Workable Policy Framework for Coastal and Marine Areas:
 - Integrated Management Plan for coastal and marine areas
 - National Strategy to implement the Plan
- Establish a Centralised / Coordinating Agency for Coastal and Marine Areas
- Develop a Funding Mechanism to support the agency