

### USVI Coral Reefs Workshop Update

- Workshop Goals & Objectives
- Workshop Content
- Workshop Outcomes
- USVI Issues
- Recommendations



- Target Audience
  - Local policy and decision makers
- Goals
  - Examine state of USVI coral reefs
  - Explore state of knowledge, current challenges, possible solutions and local initiatives
  - Capitalize on the opportunity to highlight territorial issues while federal and local policy makers are at the table

#### Objectives

- Engage in a solutionoriented discussion about the state of USVI coral reef ecosystems
- Foster discussion on ecological and management issues facing Caribbean coral reef ecosystems



## USVI Coral Reefs: Issues, Status and Solutions

Threats to Reefs

Status of Reefs



 Identifying Needs & Solutions



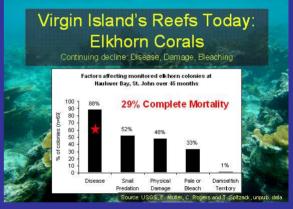
USVI Coral Reefs: Issues, Status and Solutions

Virgin Island's Reefs Today:

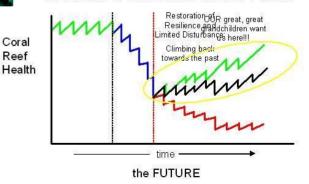
Threats to Reefs

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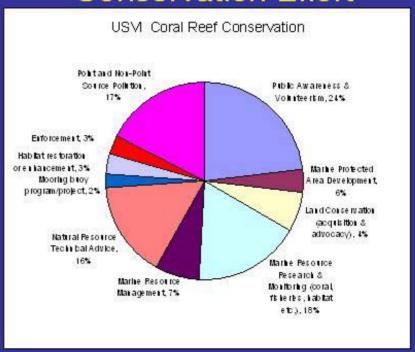
## USVI Coral Reefs: Issues, Status and Solutions

Threats to Reefs

Status of Reefs

 Identifying Needs & Solutions

## Percentage of USVI Conservation Effort



## USVI Marine Protected Areas: History, Status and Future

- Understanding MPAs
- MPAs in the USVI
- Are MPAs a Good
   Strategy for Protecting
   USVI Coral Reef
   Resources?

#### MPA Design Questions

- Why use MPA option? primary management objective
- What is the resource being managed?
- · Protection from what?
- · Management for whom?
- · Management by whom?
- · Will it work?

Understanding MP As

4

## USVI Marine Protected Areas: History, Status and Future

- Understanding MPAs
- MPAs in the USVI
- Are MPAs a Good Strategy for Protecting USVI Coral Reef Resources?

#### **Different Players**

- NOAA/NMFS CFMC
- National Park Service







#### Types of Territorial MPAs

- Fisheries Closures
- Marine Reserves & Wildlife Sanctuaries
- Areas of Particular Concern (APCs)
- Marine Parks



#### Big Questions (Roles as MPAs)

- Big/diverse enough to be effective?
- What are the effects of protection within VICR/BUIS? need local data to satisfy local concerns
- What are the ecological relationships between park units (VIIS/VICR and BUIS/EEMP)? NOAA, et al. starting fish movement study
- What are the benefits of no-take (VICR) to partial-take (VIIS)?
- What are the benefits of no-take (VICR/BUIS) to adjacent waters?

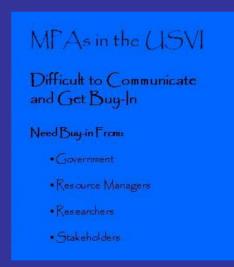
All these questions are being worked on by NPS, NOAA and university researchers.

#### Challenges to Effectiveness of Territorial MPAs

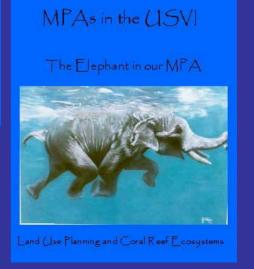
- Management of various designated areas within multiple governmental Divisions
- Mgmt of MRWS not assigned to any particular Division
- Division of Environmental Enforcement authorized enforcement agency for all of DPNR
- · Division of Fish & Wildlife operating with very limited support
- · Few formally adopted management plans
- Inadequate (nonspecific) goals / objectives for many areas
- Data needs (baseline and continued monitoring)
- · Effectiveness evaluations for areas needed
- Adaptive management not realized
- · Continued decline of resources

## USVI Marine Protected Areas: History, Status and Future MFAsinthe USVI

- Understanding MPAs
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# Did We Achieve the Workshop Goals & Objectives?

- Yes and No
- Generated discussion
- Whole other set of unforeseen issues arose
- Strategies to evaluate management effort were not addressed sufficiently
- Instead perception of inadequate management was discussed



## Management Effectiveness

- Current management strategies insufficient
- Disconnect between managers and scientists
- Insufficient understanding of economic value of reefs



## Stakeholder Engagement

- Inability to get appropriate messages out to stakeholders
- Need for consistent and meaningful stakeholder engagement
- Need to engage nontraditional stakeholders



## **Leadership Continuity**

- Every 4 years staff changes
- Compromised thread of continuity & institutional memory
- Risk abandoning processes that work
- Risk stalling program progress



### Recommendations

- Development of a Coral strategy for USVI
  - Interdisciplinary and comprehensive include research, community engagement, management, enforcement
  - Need for actual funded position(s)
  - Need for facilitation to begin the development of strategy
  - Strategy would address current efforts, vision, gaps
    - VI coral list
    - VI CRAB (technical advisory board/group) formalized
    - Some framework already exists (VINE, VICCC, VI EPSCoR ed/out, mechanism in place to distribute message)

## **Recommendations**

- Training/Assistance in conducting effectiveness assessments
- Replicate this workshop for decision makers



## <u>Acknowledgements</u>

- Workshop co-coordinators
- Workshop presenters and moderator
- NOAA
- DPNR, CZM
- colleagues

## Thank You

