



# Monitoring 4 MGT

A Local Example of  
Community Based Monitoring



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- Projects
- Stakeholders
- Communities
- Partners
- Achievements

# Overview



## ECOMAR

- Coral Watch
- Lionfish Project
- Reef Rally
- Turtle Watch
- Whale Watch



# Projects

# Unifying Themes

- Conservation through Education
- Monitoring Impacts – Climate Change, Invasive Species, Anthropogenic
- Collaboration with partners



- What's Monitored?
- Goals
- Activities





# Coral Watch

## What's Monitored?

- Volunteers submit Coral Watch reports
- Biologists conduct detailed survey

## Goals

- Monitor Impacts of Climate Change on Coral Reefs
- Identify Resilient Reefs
- Incorporate into Mgt Plan for MPAs
- Engage Marine Guides, Scientists & Visitors

## Activities

- Production & Distribution of Materials
- Outreach Workshops
- Prepare Response Plan



# Lionfish Project

## What's Monitored?

- Size & distribution
- Prey

## Project Goals

- Increase awareness of lionfish and dispel myths
- Manage by remove
- Engage fishermen, marine guides, visitors

## Activities

- Prepare & distribute materials
- Outreach workshops
- Monthly Tournaments
- Produce Mgt Plan



# BELIZE TURTLE WATCH



# Turtle Watch

## What's Monitored?

- Inwater – Species, abundance, size, distribution
- Nesting – location, species, success
- Stranded
- Illegal Take
- Lay persons Adopt A Beach or Reef and submit observations
- Biologists conduct in-water surveys & monitor nesting beaches

## Goals

- Identify impacts of Climate Change
- Establish baseline data for sea turtle abundance
- Engage coastal residents, marine guides, fishermen, visitors

## Activities

- Produce & distribute materials
- Workshops
- Produce Updated STRAP

- Marine Guides
- Fishermen
- General public – emphasis in coastal communities
- Visitors
- Scientists
- Hotels
- Dive Centers
- Resorts



# Stakeholders



# Coastal Towns & Villages



- Sarteneja
- Chunox
- Copperbank
- San Pedro
- Caye Caulker
- Belize City
- Dangriga
- Hopkins
- Seine Bight
- Placencia
- Monkey River
- Punta Gorda

# Communities

Government &  
Non-Government  
Members of Conservation Networks  
(Belize Sea Turtle Conservation Network &  
Belize Coral Reef Monitoring Network)  
Donors  
Private Sector



# Partners





- Fisheries Department
- Coastal Zone Management Authority & Institute



**Government**

# Non-Gov't Orgs

## MPA Comanagers

- Belize Audubon Society
- Southern Environment Association (SEA)
- Toledo Institute for Development & Environment (TIDE)

## International Conservation NGOs

- Blue Ventures
- Wider Caribbean Sea Turtle Conservation Network
- Wildlife Conservation Society

## Educational Institutions

- University of Belize

## Tourism Associations

- Tour guide
- Tour operator
- Hotels

## Fishermen Cooperatives





# DONORS

- COMPACT
  - SGP
  - GEF
  - UNDP
  - United Nations Foundation
- Gulf & Caribbean Fisheries Institute
  - CaMPAM
  - CAR-SPAW-RAC
  - CEP
  - UNEP
- Protected Areas Conservation Trust (PACT)
- Private Individuals
- The Nature Conservancy (TNC)
- World Wildlife Fund (WWF)

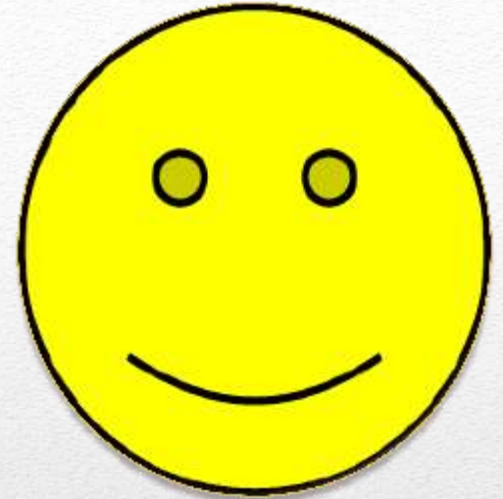
# Private Sector

- Hotels
- Dive Centers
- Restaurants
- Individuals





- Collaboration
- Increased Awareness
- Management/Response Plans



# Achievements

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# Collaboration

## Strengthen Coral & Turtle Networks

- Nationwide Monitoring for Coral Bleaching
- Increased data collected on sea turtles
- Online Database for Coral Bleaching and Sea Turtles established at University Belize
- Marine Science List-Serve at UB
- Production of management plans

Achieving common goals!





# Increased Awareness

- Impacts of **CLIMATE CHANGE** on coral reefs and sea turtles
- Impacts of **INVASIVE SPECIES** on native populations, myths dispelled, promote mgt through consumption
- **ENGAGED STAKEHOLDERS** take actions to protect *their* resources



Conserve target species...  
*Conservation through Education*



# Mgt / Response Plans

## CONTENTS

- Overview
- Protocols
- Recommendations

## DOCUMENTS

- **Coral Bleaching** Response Plan (in prep)
- **Lionfish** Management Plan
- Update **Sea Turtle** Recovery Action Plan (STRAP)(in prep)







**Thank  
you!**

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**Gracias**

**Salamat**

**Dank u**

**Merci**

**Dankie**

**Questions?**