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# Collaboration and Capacity Building

UNFCCC Expert Meeting on Adaptation for SIDS  
Kingston, Jamaica  
February 7, 2007

John Furlow  
USAID/Global Climate Change Team

[http://www.usaid.gov/our\\_work/environment/climate/index.html](http://www.usaid.gov/our_work/environment/climate/index.html)



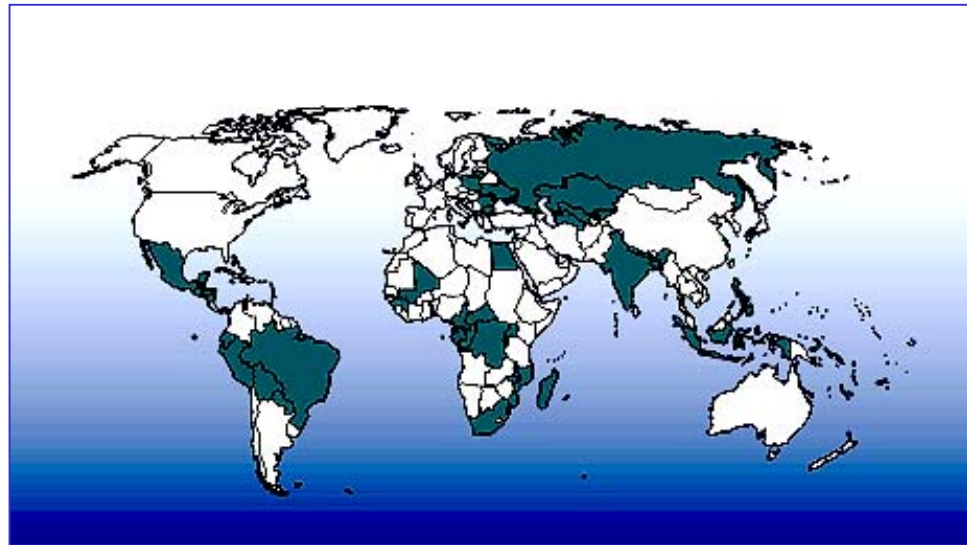
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# Key Countries and Focus Areas

## Climate Change Projects in over 40 Countries and Regions

### Four Focus Areas:

- **Climate Change Science for Decision Making**
- **Adapting to Climate Variability and Change**
- **Energy and Mitigation Technology**
- **Land Use and Forestry**





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# Science to Support Decision Making

- SERVIR
- CDERA
- MACC – NOAA supports Master's program
- IAI
- ACMAD
- AGRHYMET
  - Informs Famine Early Warning System
- CGIAR

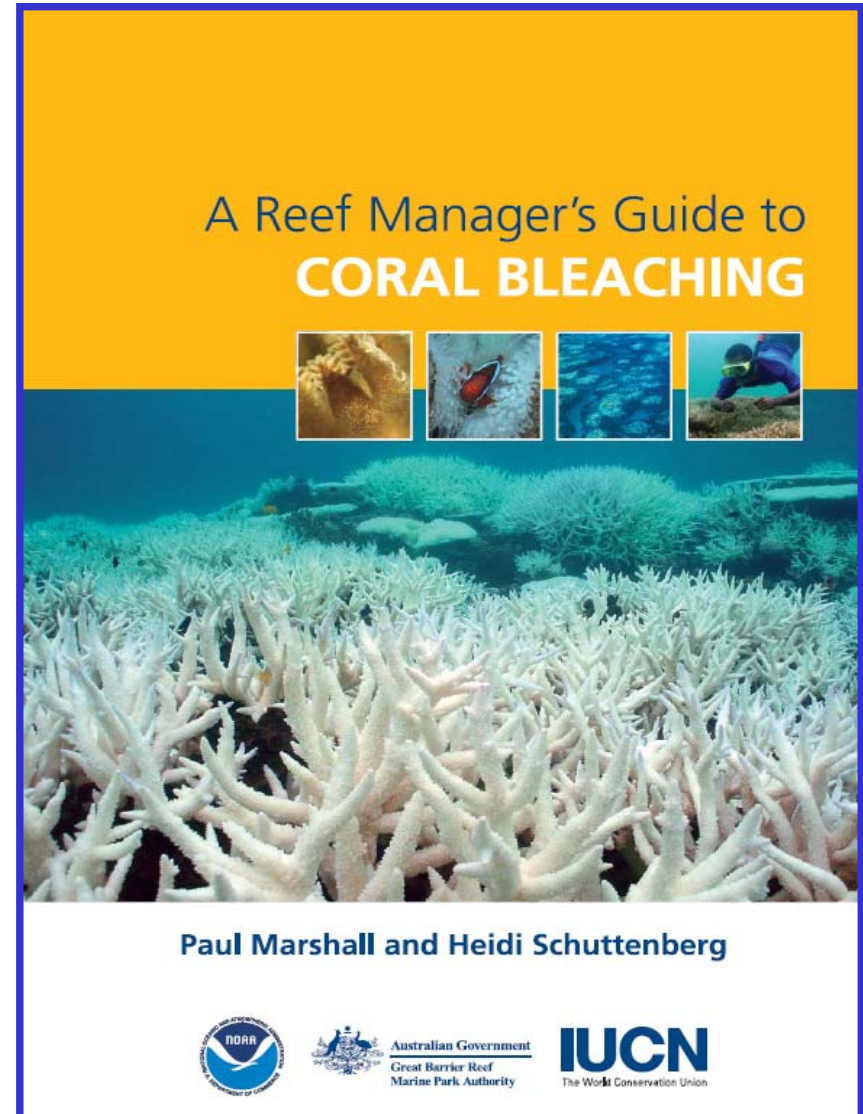


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# Informing Resource Management

## Reef Manager's Guide

- Synthesizes best scientific knowledge and management experience
- Represents collaboration between managers and researchers
- USAID supports this approach in its marine management programs





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# Adaptation to Climate Change

## Philosophy

- Improve Adaptive Capacity Through Economic Development
- Work at Project Level to Improve Resilience Through Design
- Stakeholder Involvement Essential
- Climate Change is a stressor, not a competing sector

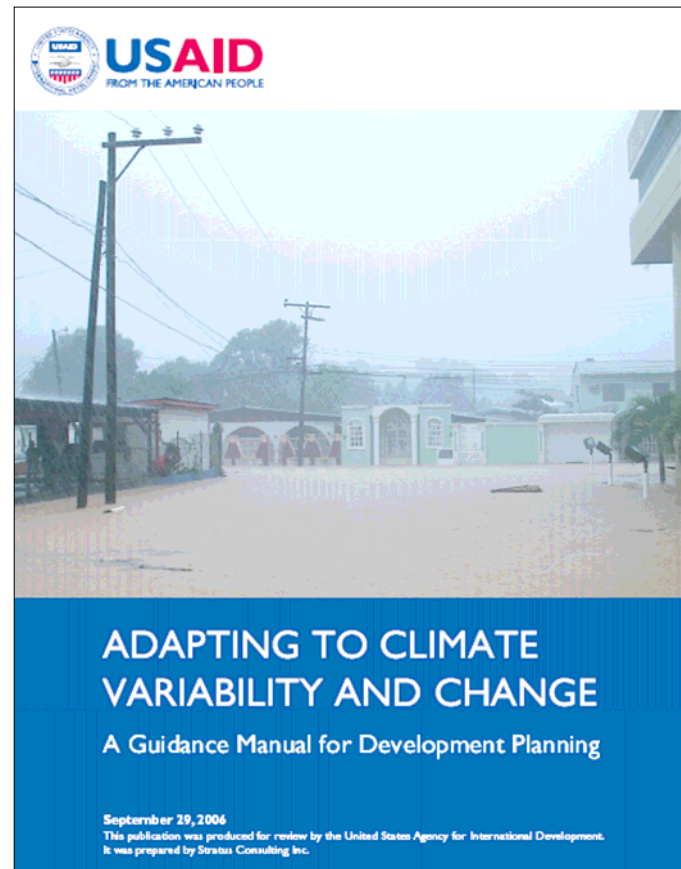
## Approach

- Identify Sensitivities To Climate Change
- Identify Adaptation Options
- Assess Impacts Of Climate Change, Feasibility Of Adaptation Options
- Develop Implementation Plan

# Adapting to Climate Variability and Change

## USAID Adaptation Goals:

- Educate project planners:
  - Provide climate change information for non-experts
- Increase resilience of projects
  - Identify opportunities for adaptation
- Improve planning processes
  - Incorporate adaptation into project planning
- Approach
  - Adaptation Guidance Manual





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# La Ceiba, Honduras

## Issue: Coastal Development

- Population: 100,000
- Vulnerable to Flooding And Storm Surge
- Redeveloping After Hurricane Mitch for Tourism
- Climate Change Could Exacerbate Storm Surge, Upland Flooding, Coastal Erosion





## Adaptation options

- **Coastal erosion/surge**
  - set-back zoning
  - beach renourishment
  - elevate buildings
- **Riverine flooding**
  - restore levees
  - reopen river channels to the ocean
- **Urban flooding**
  - improve storm drainage through sewer system and pumping
  - reopen channels to the river







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## Lessons learned

- Local Knowledge is critical to success
- Local Ownership is critical

## Gaps

- How much uncertainty in climate projections is acceptable to planners?
- How much of the process can partners take on?
- How costly?
- How time-consuming?



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# Thank You

John Furlow  
USAID Wasington  
[jfurlow@usaid.gov](mailto:jfurlow@usaid.gov)