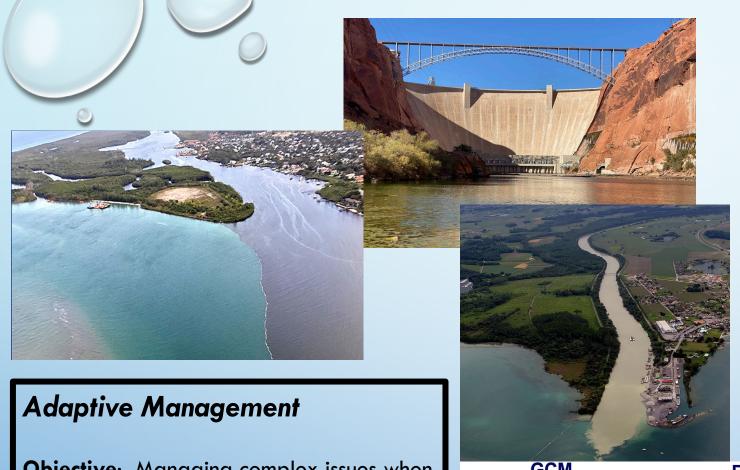
ADAPTIVE MANAGEMENT: IS IT ROBUST ENOUGH TO HANDLE CLIMATE CHANGE?

NATIONAL CONFERENCE ON ECOSYSTEM RESTORATION

ALBUQUERQUE, NM

APRIL 2024

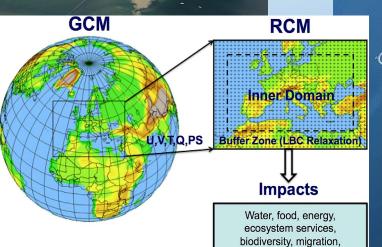




Objective: Managing complex issues when you don't have all the information

Strategy: Flexible, collaborative and science/information-based approach

Tactics: Science, Structured Decision Making, Collaboration, Constant Learning



coastal areas, tourism

ADAPTIVE MANAGEMENT: DESIGNED FOR FLEXIBILITY SOMETIMES

Why Adaptive Management?

- Complex problems
- Not enough data
- Diversity of interests

AM Design Components:

- Governance
- Agency Policies
- Science Plan with Metrics and Data
- Structured Decision Making Process

Implementing Success is Variable and dependent on:

- Agency History
- Developing Trust
- Transparency in Process
- Developing a "new"
 Culture for AM
- Unanticipated Challenges and Opportunities

Components of Adaptive Management

Governance: The authority to implement Adaptive Management

Policies: Agency direction to act and provide direction for implementation

Science Plan: Combination of monitoring, applied and theoretical research, modeling and data management/sharing

Structured Decision Making: Bringing the information and data into a process for making decisions in a transparent manner focused on achieving program goals.



Climate Change??

System Resilience to Change

Operations and Maintenance

Ecosystem Services











Climate Change impacts:

- At every level
- Is synergistic
- Is a force multiplier
- Temporally and spatially

Ecosystem Integrity

Infrastructure and Management Risk

Climate Change

Security – National, Food, Economic

Public and Social Health

The Everglades

Our Panel Today



Dr. Fred Sklar Everglades Foundation



Chesapeake Bay



Dr. Lorie Staver Univ. of Maryland



Climate change: Science and Adaptation

Grand Canyon & Colorado River



Dr. Kim Dribble USGS



Over the next 80 minutes or so:

- Roger Pulwarty will provide a brief description of the challenges presented by climate change in respect to governance, management and science
- Case Studies where Adaptive Management is being applied to particularly complex ecosystem and water management issues:
 - Fred Sklar The Everglades
 - Lorie Staver Chesapeake Bay
 - Kim Dribble Grand Canyon & the Colorado River

Panel Discussion Exploring the topic:

"Is Adaptive Management robust enough to handle the challenges of climate change"