

USGS Climate Change Science

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Nebraska City, Nebraska

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**Deputy Regional Executive
USGS Rocky Mountain Area**

Secretarial Order 3289

Addressing the Impacts of Climate Change on America's Water, Land, and Other Natural and Cultural Resources (9/14/09)

- **Department-wide Climate Change Response Council**
- **Landscape Conservation Cooperatives**
- **National Climate Change & Wildlife Science Center**
- **Regional Climate Science Centers**
- **Carbon Sequestration (Biological, Geological)**
- **DOI's Carbon Footprint**



Connecting Climate Change to Resource

Management

Global Climate Models

Describe likely climate changes at a very large scale
Produced by agencies, universities, and research centers

Local / Regional Climate Information

Describe likely climate changes at a regional or local scale. Downscaled from global models or produced from regional models.

Ecological Understanding

Describe basic ecological processes (hydrology, population biology, ecosystem functions, processes, and services)

Forecasts of Ecological Response

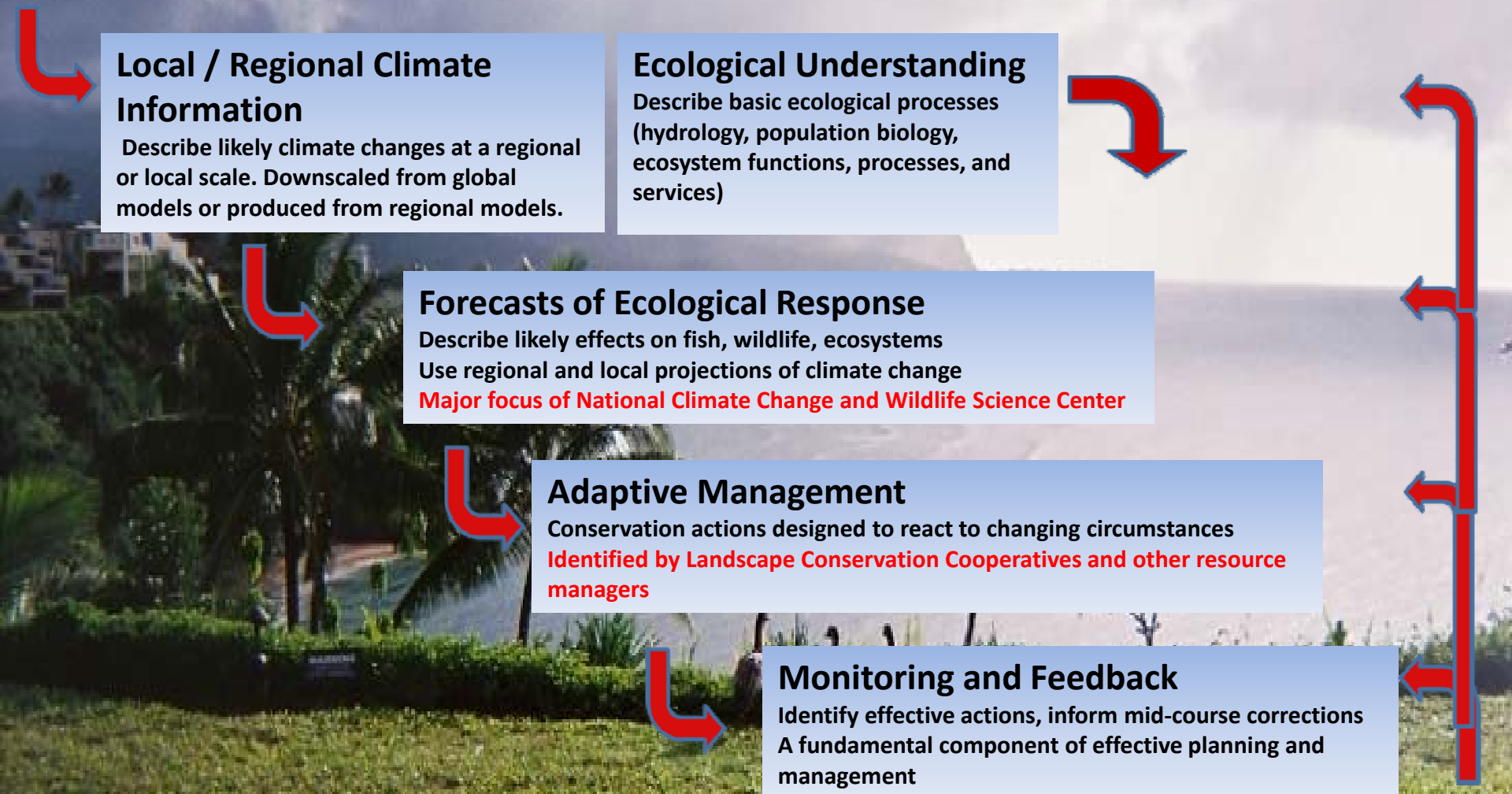
Describe likely effects on fish, wildlife, ecosystems
Use regional and local projections of climate change
Major focus of National Climate Change and Wildlife Science Center

Adaptive Management

Conservation actions designed to react to changing circumstances
Identified by Landscape Conservation Cooperatives and other resource managers

Monitoring and Feedback

Identify effective actions, inform mid-course corrections
A fundamental component of effective planning and management



National Climate Change & Wildlife Science Center

Mission - Provide **natural resource managers** with the **tools and information** they need to **develop and execute management strategies** that address the impacts of **climate change on fish, wildlife, and their habitats**

Goals

- Partnerships with natural resource managers
- Partnerships with the scientific community
- Delivery of information at appropriate scales to resource managers

Overview

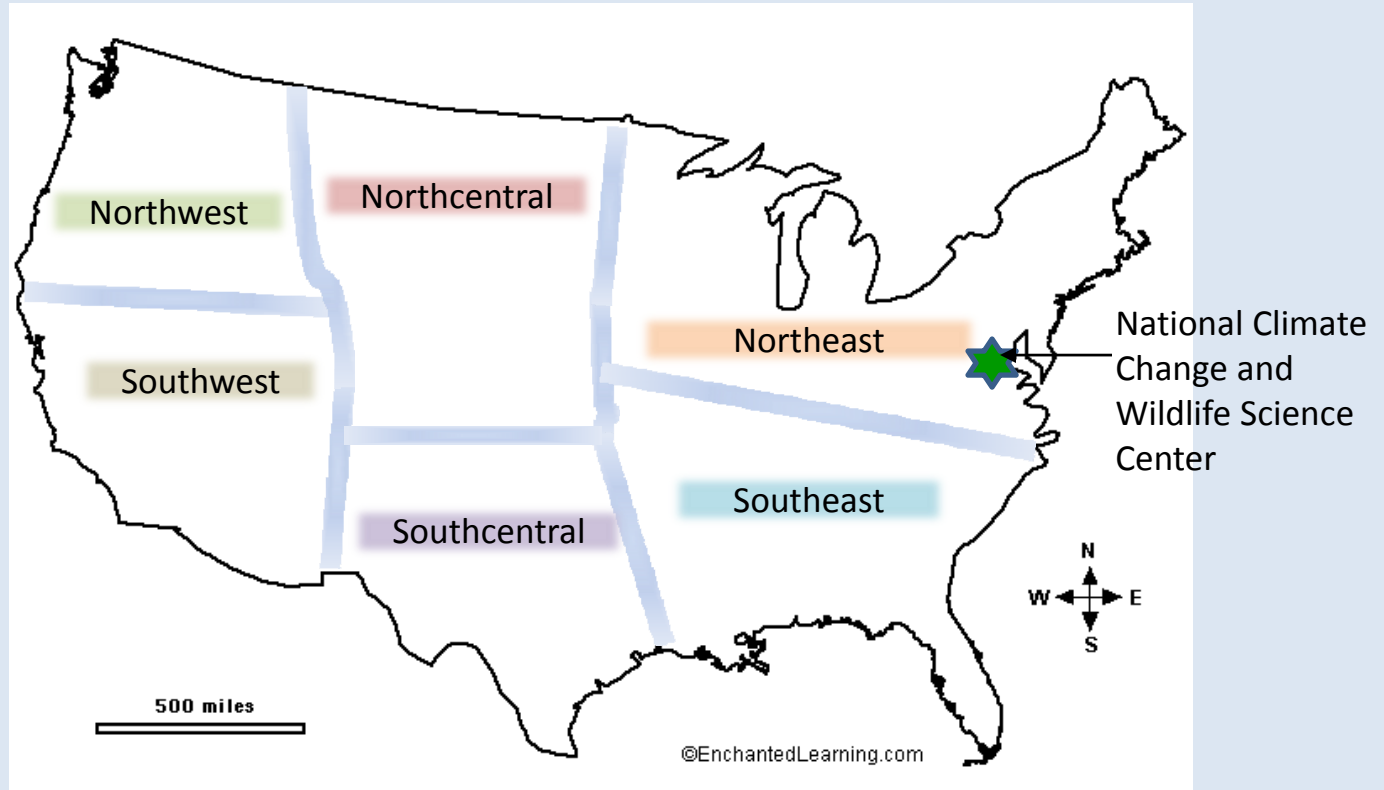
- Focus on adaptation to climate change
- Focus on climate change in context of other actions and stressors

Climate Science Centers--Regions

Alaska



Pacific Islands



“Fuzzy Boundaries”

