IMPLEMENTATION UPDATE

Climate Science Centers

Providing the Science for Natural and Cultural Resource
Adaptation to Climate Change

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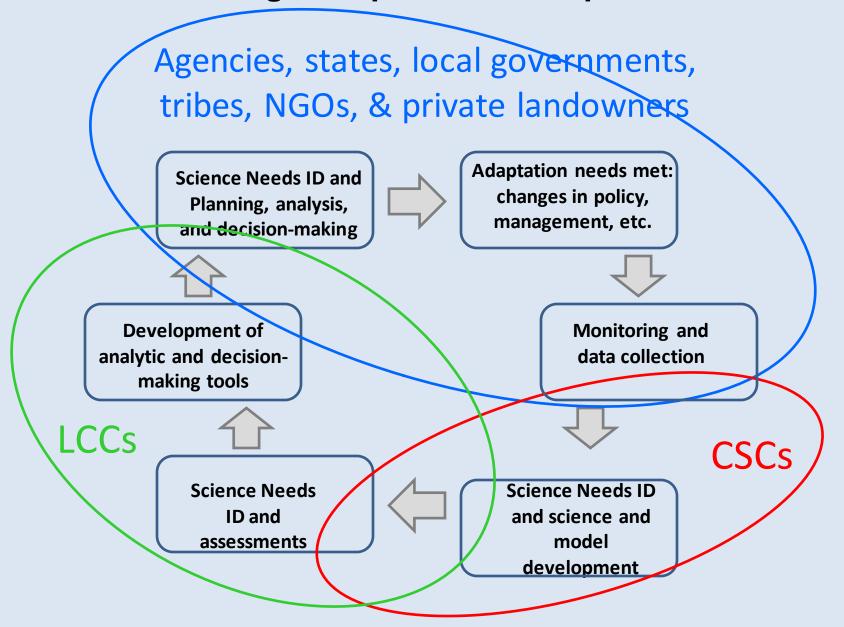
National Climate Change & Wildlife Science Center – The Big Picture -- Mission

- 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

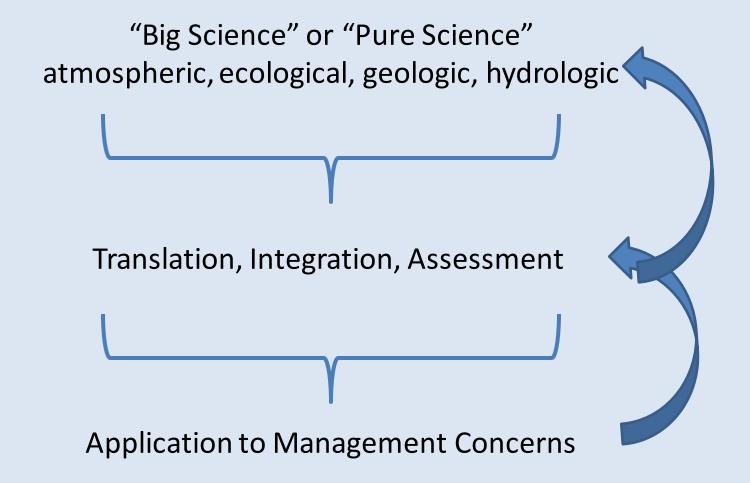
Big Picture – Goals

- Partnerships with natural resource managers to address their highest priority science needs
- Partnerships with the scientific community to develop needed information and tools
- Delivery of robust tools and information at applicable scales directly to resource managers
- Focus on climate change adaptation and on climate change in context of other actions and stresses.

Climate Change Adaptation Conceptual Model



Center Role of the Climate Science Centers



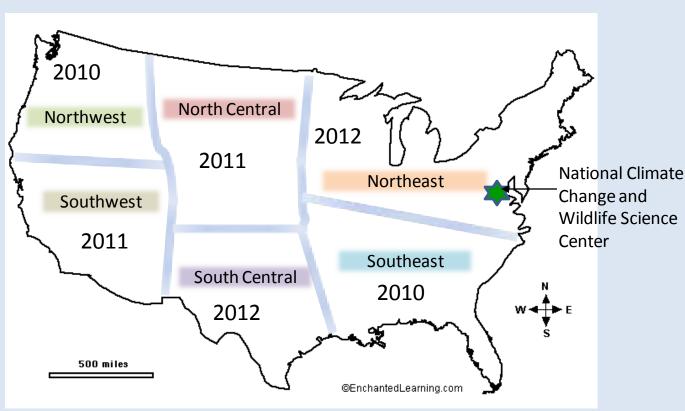
*AND development of Strategic Science Tools for Management!



Climate Science Centers—Regions – All in Place











Northeast DOI Climate Science Center – Consortium Members

- University of Massachusetts Amherst
- College of the Menominee Nation
- Columbia University
- Marine Biological Laboratory. Woods Hole, MA
- University of Minnesota
- University of Missouri, Columbia
- University of Wisconsin, Madison

The Institutional and Geographic Scope of the DOI NE- CSC



- "About" 22 states (fuzzy boundaries)
- Over 1/3 of the Nation's population
- Two USGS and FWS Regions (28 USGS Science Centers)
- Most Urban CSC.
- Multiple Ecosystems including two coastlines

Key CSC Characteristics

- University/federal cooperative access capabilities feds don't have
- Training of grad students pipeline
- Small federal staff
 - Filling regional gaps
 - Synthesis / assessment / aggregation
- \$3-4 m/year, majority in flexible federal funds
- Will build significant cyber infrastructure network
 - At each CSC: university federal node
 - Eight nodes plus NCCWSC
 - Feeding LCCs and other application-oriented efforts (e.g. designed for more than researchers)



LCCS and management partners identify science priorities

Multiple LCCs & mgmt partners

CSC

LCCs and Other Partners Identify Regional Priorities

Teams Among Partners

CSC identifies best research

CSC identifies best research

Users to deliver information and tools

Research Teams



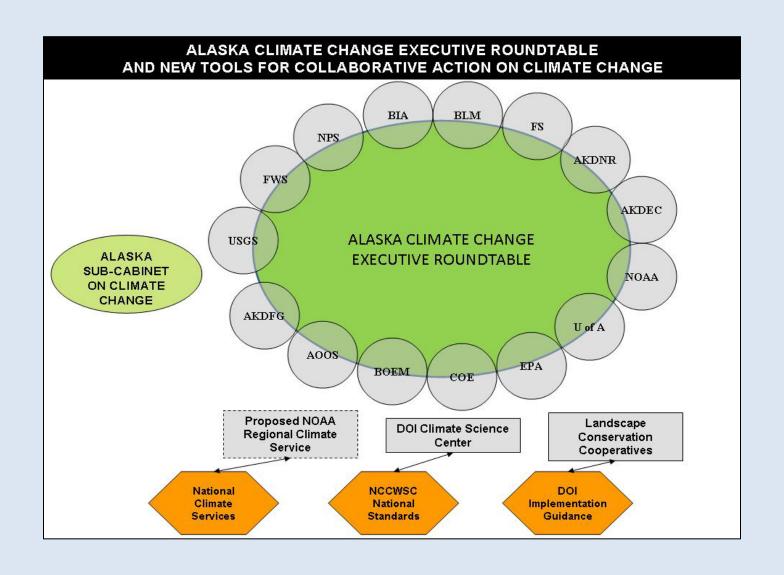
Initial Tasks

- Establish Start Up Team "Kitchen Cabinet"
- Begin Process for Identifying and Creating Steering Committee and Advisory Board
- Outreach to Partners to Determine Science Needs from Partners (such as LCCs)
- Use this information to establish Science Plan
- Establish small team of permanent USGS
 Management and Science Staff
- Time Frame 9 months

CSC Stakeholder Advisory Committees

Pay to Play – NO

Leveraging, Coordinating, Identifying Key Priorities – YES



A new model

- Collaborative priority setting
- Strong management linkages
- Translational science
- Collaborative science planning
- Nimble design, flexible resources
- Collaboration is an assigned task

Points of Contact

Points of Contact for DOI – NE –CSC:

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On the web -- http://www.cns.umass.edu/neclimate/doi-csc/section-4-1



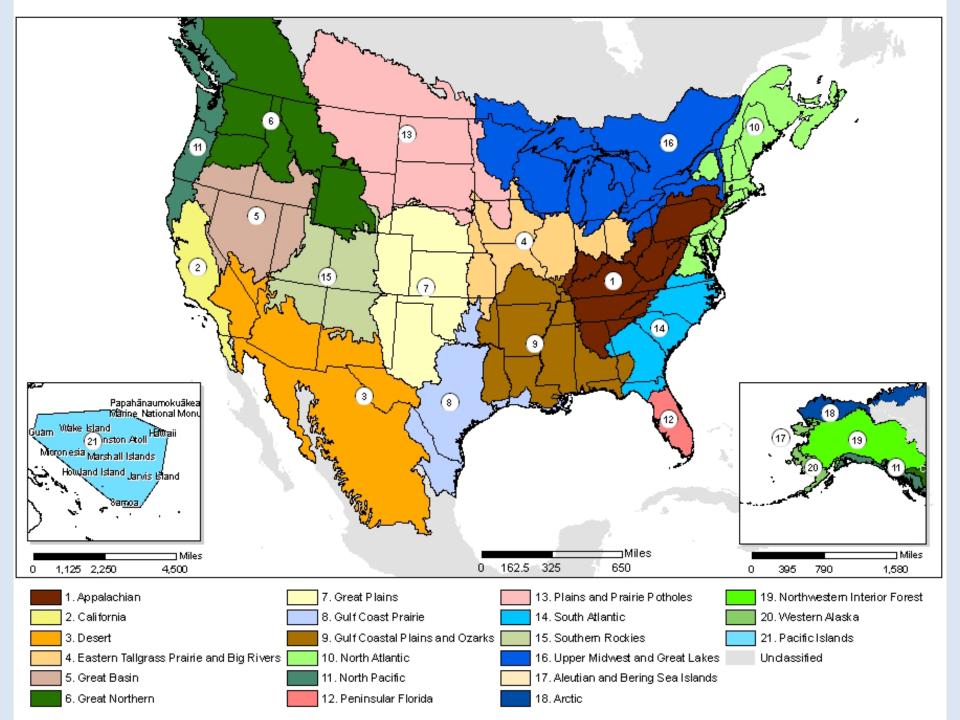
Landscape Conservation Cooperatives What are they?

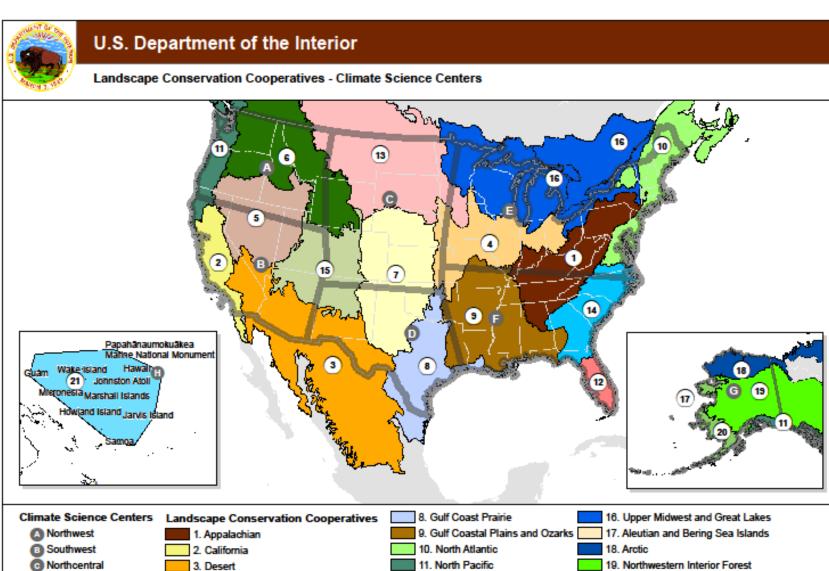
Applied conservation science partnerships. Partners include federal and state agencies, Tribes, conservation organizations, and universities within a geographically defined area

<u>Fundamental units of planning and adaptive science</u> that inform conservation actions on the ground

A national and international network of land, water, wildlife and cultural resource managers and interested public and private organizations



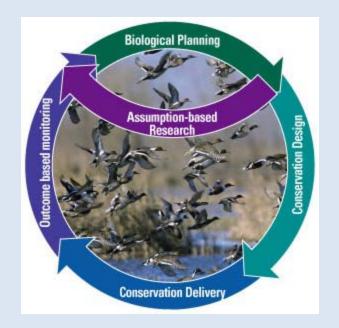






Landscape Conservation Cooperatives What do they do?

- Identify common goals and priorities
- Link science and conservation delivery
- Support biological planning, conservation design and adaptive management
- Evaluate the effectiveness of scientific information and conservation actions





Landscape Conservation Cooperatives

Key Components

- A steering committee of partners
- LCC coordinator
- Planning and technical staff
- GIS capability and other scientific expertise
- Communications



istock

