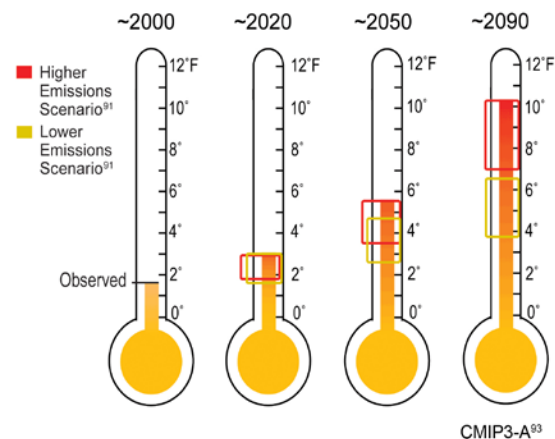


Southwest Climate Science Center

EPA – Regional Tribal Operations Committee

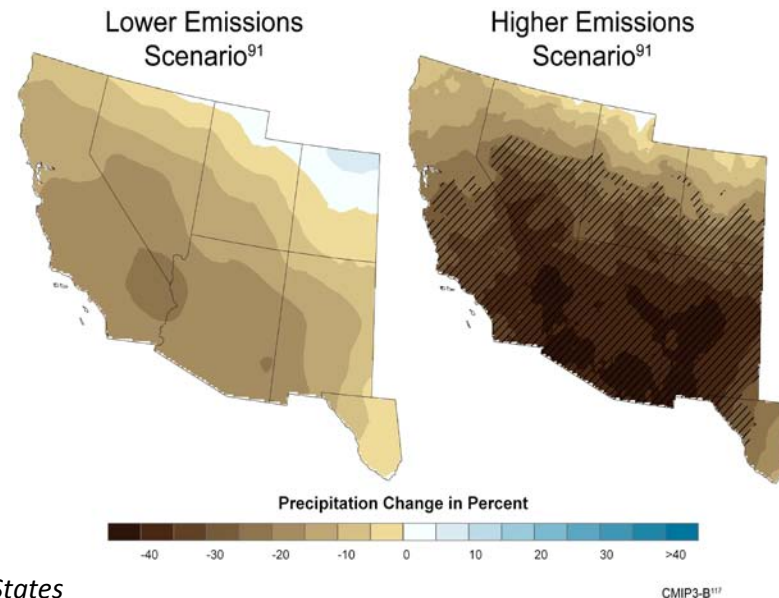
Dave Busch, Interim Director, SWCSC



The average temperature in the Southwest has already increased roughly 1.5°F compared to a 1960-1979 baseline period. By the end of the century, average annual temperature is projected to rise approximately 4°F to 10°F above the historical baseline, averaged over the Southwest region. The brackets on the thermometers represent the likely range of model projections, though lower or higher outcomes are possible.



Regional Highlights from
Global Climate Change Impacts in the United States
www.globalchange.gov/usimpacts



Percentage change in March-April-May precipitation for 2080-2099 compared to 1961-1979 for a lower emissions scenario⁹¹ (left) and a higher emissions scenario⁹¹ (right). Confidence in the projected changes is highest in the hatched areas.

Talking points

- Background: DOI climate response program
- Fundamentals: Climate Science Centers
- Formation of the Southwest CSC (SWCSC)
- Outreach to partners
- Questions / Discussion

<http://www.doi.gov/csc/southwest/>

dave_busch@usgs.gov

DOI - Secretarial Order 3289

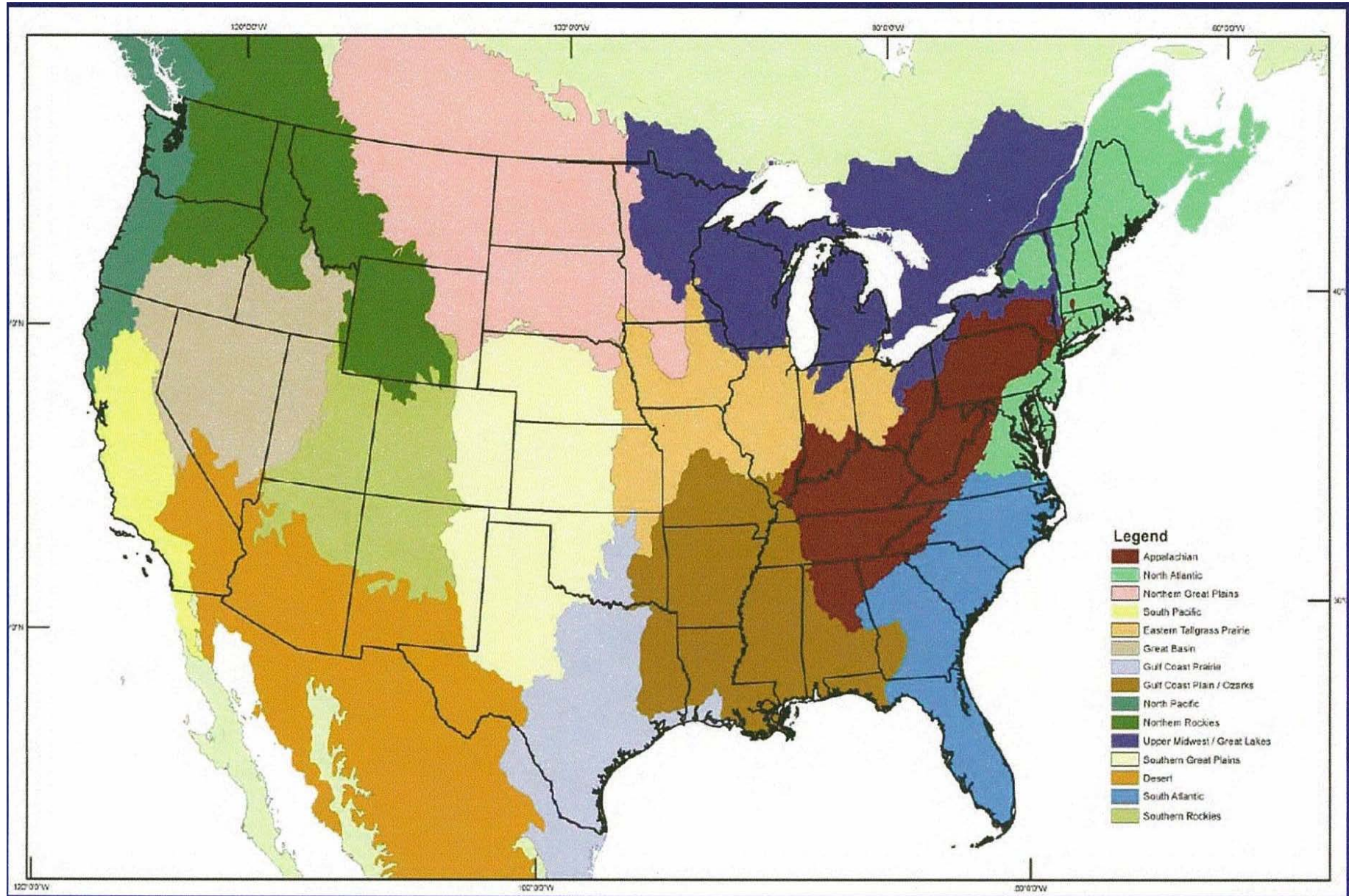
Addressing the Impacts of Climate Change on America's Water, Land, and Other Natural and Cultural Resources (9/14/09)

... the United States Geological Survey (USGS) has been developing regional science centers ... currently known as "regional hubs" of the National Climate Change and Wildlife Science Center...

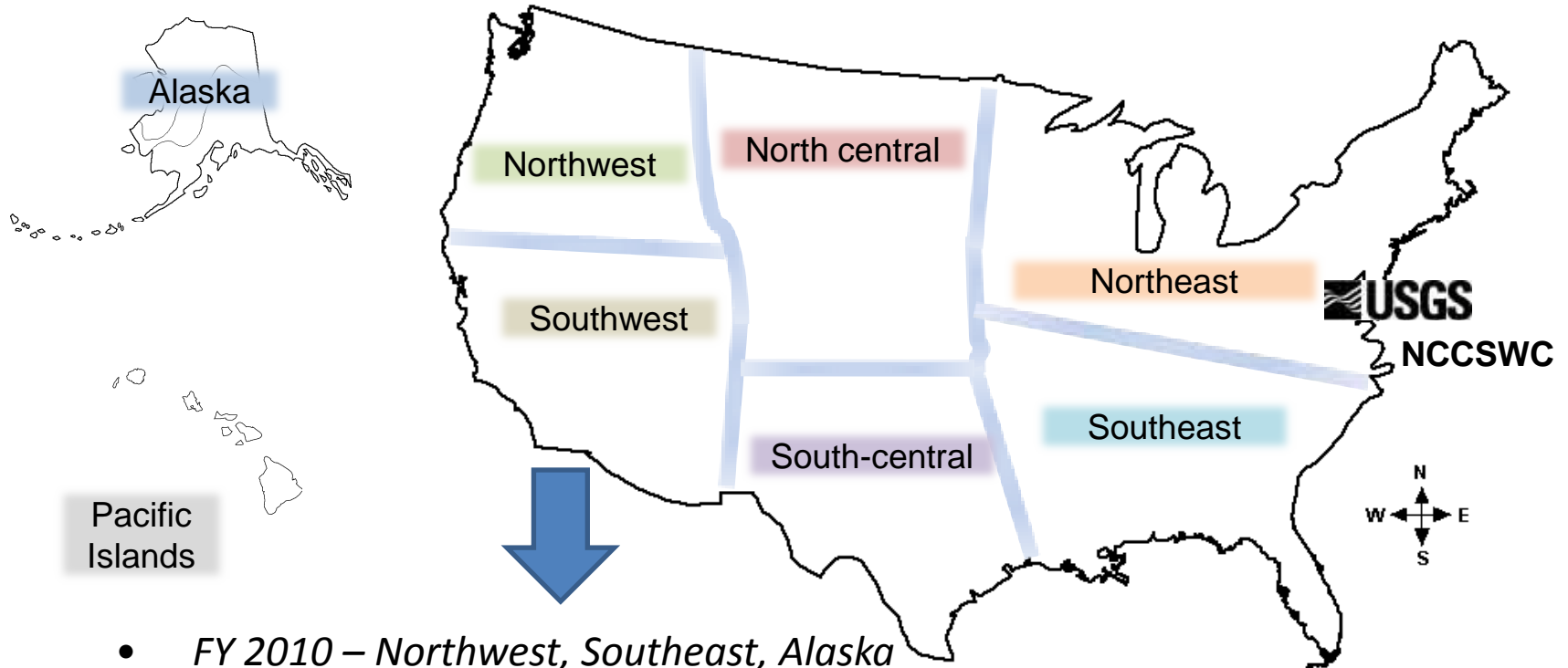
The **Climate Change & Energy Response Council** will work with USGS and other Department bureaus to rename these regional science centers as **Regional Climate Science Centers** and broaden their mandate ...



Landscape Conservation Cooperatives



Climate Science Centers



- *FY 2010 – Northwest, Southeast, Alaska*
- *FY 2011 – Southwest, North Central*
- *FY 2012 – Northeast, South Central, Pacific Island*

Climate Science Centers Consultation and Development

December 2008 – National Workshop

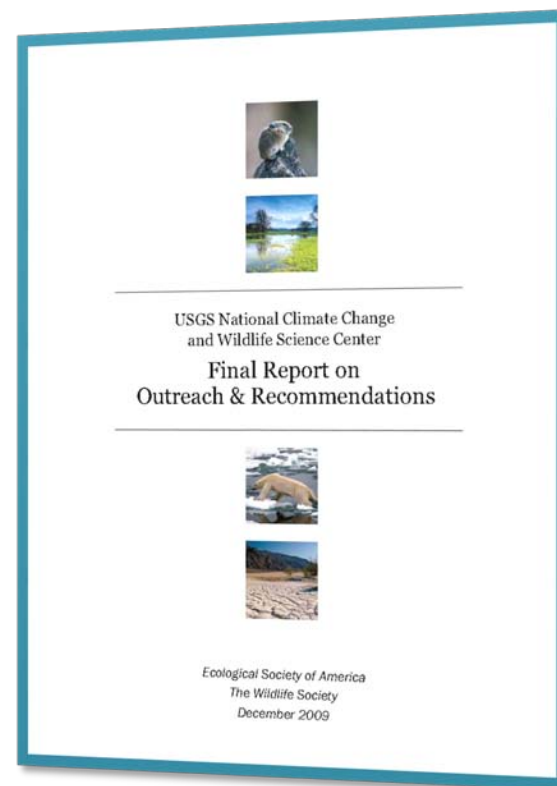
May 2009 – (Eastern region) Laurel, MD

June 2009 – (Western region) Seattle, WA

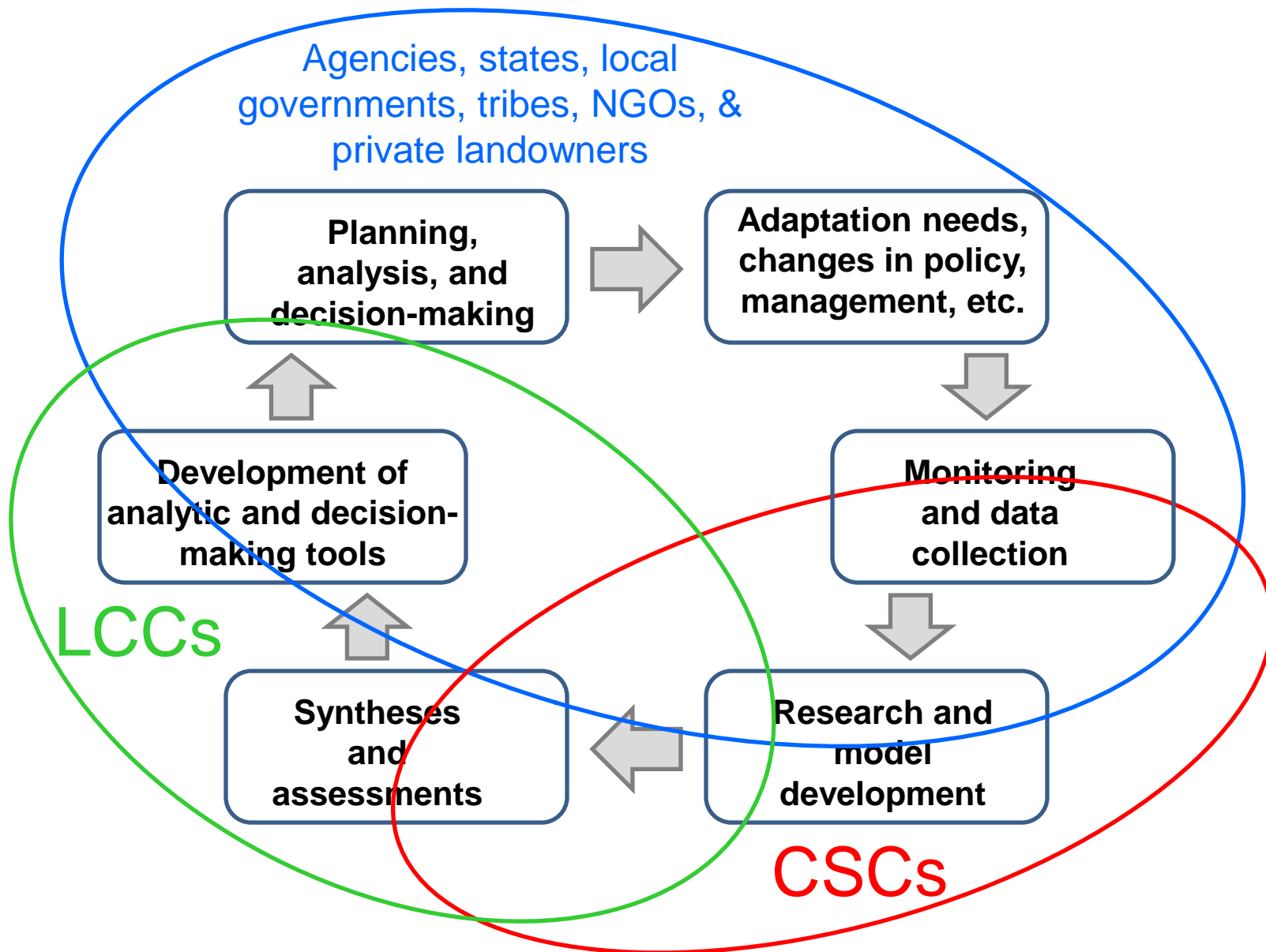
June 2009 – (Central region) Denver, CO

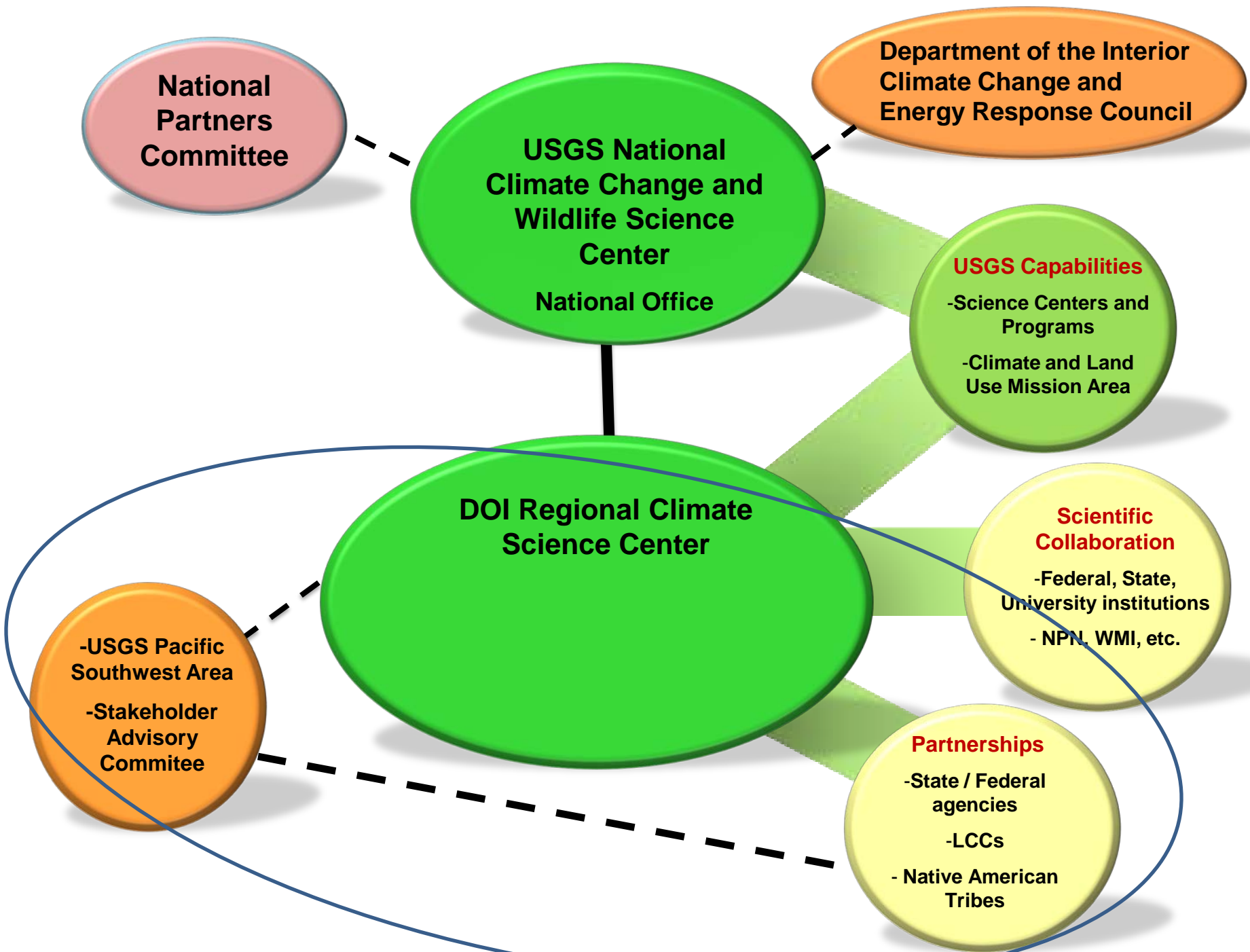
July 2009 – Meeting with national partners

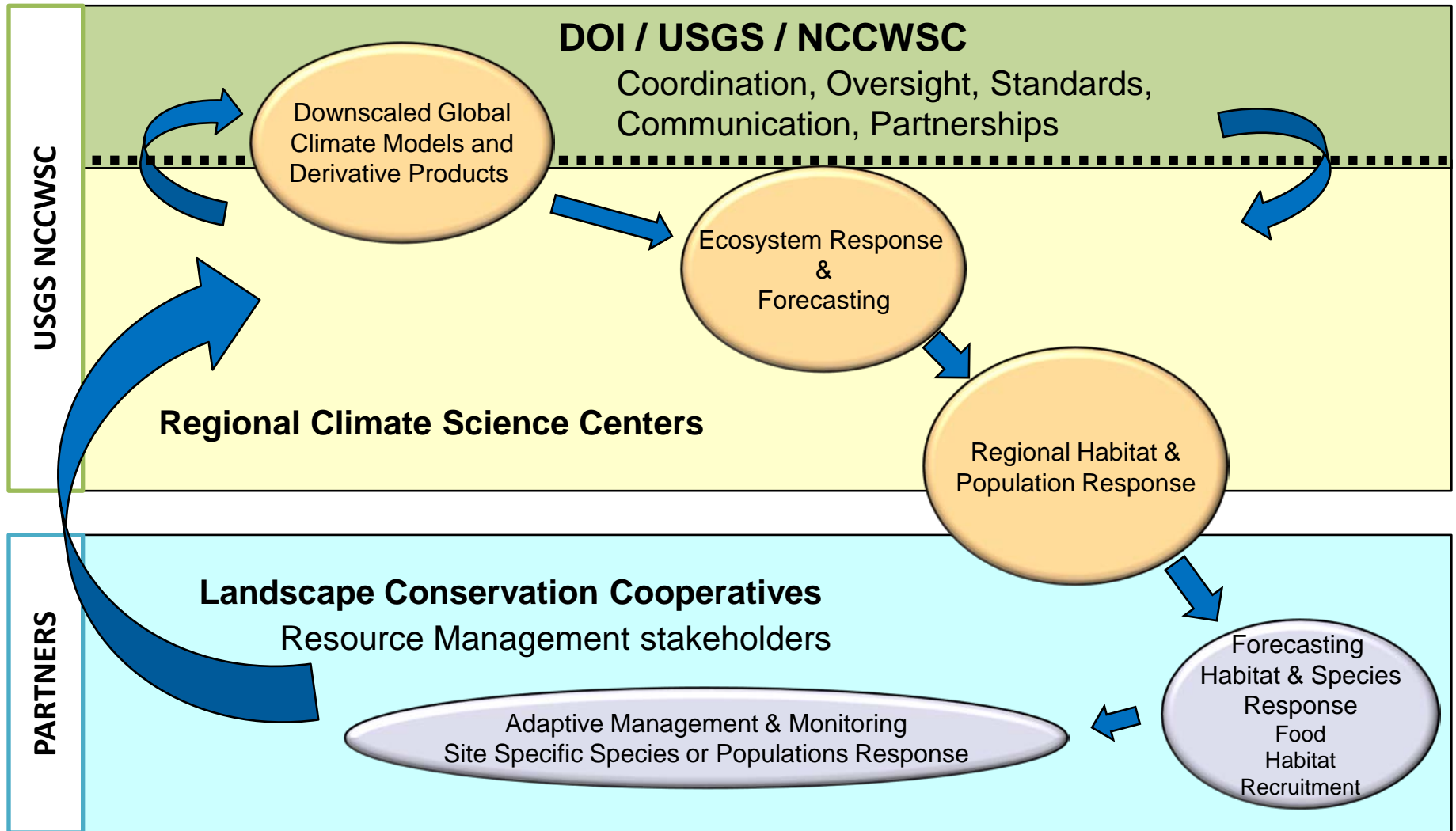
Reports available at www.nccw.usgs.gov
(includes TWS-ESA final report)



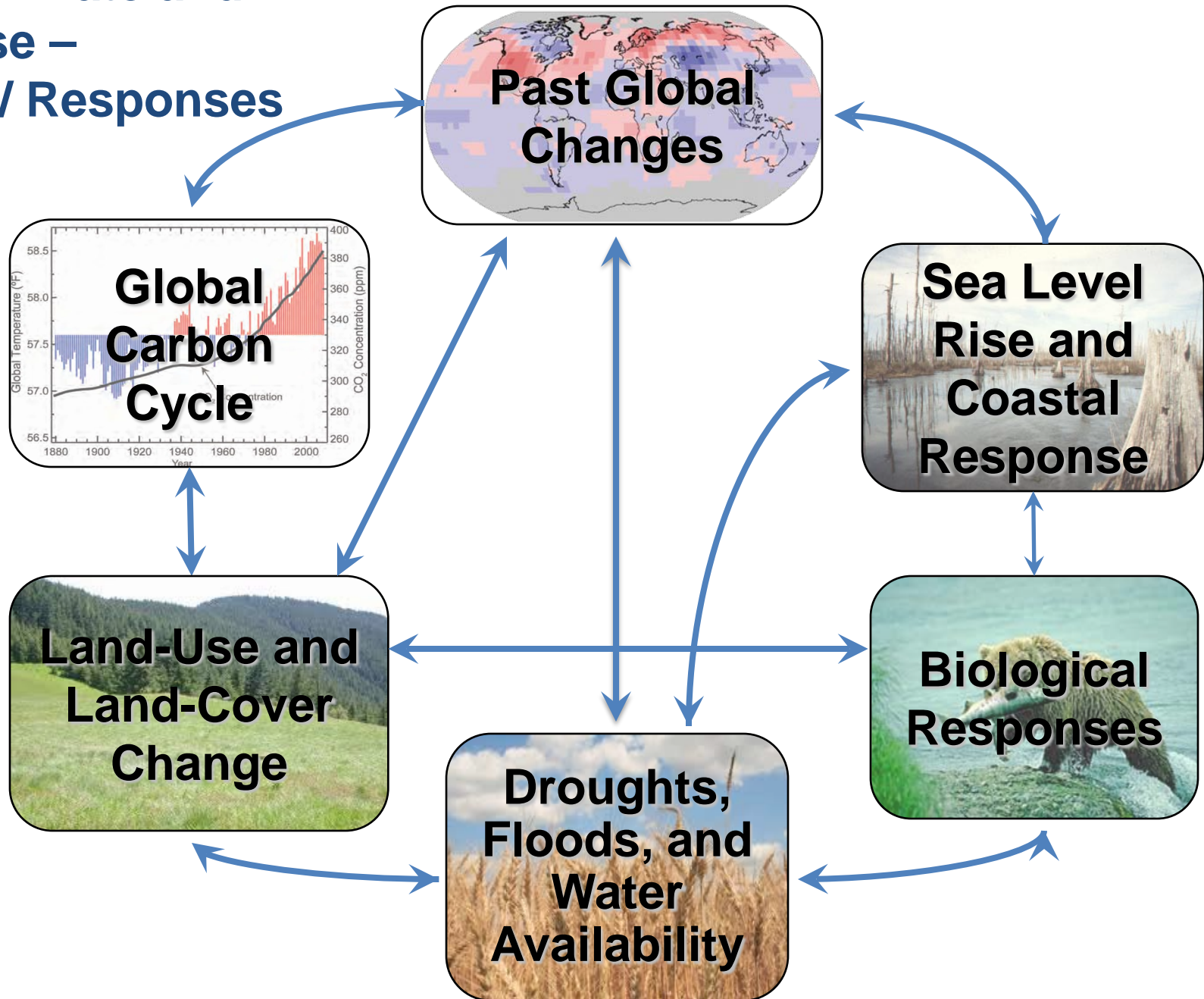
Climate Change Adaptation Conceptual Model







USGS Climate and Land Use – Drivers / Responses





DOI Climate Science Centers

- Regional management-driven science partnerships
- Expertise networks, research institution-based
- Focused on synthesis, modeling, assessment, integration, translation, and delivery
- Scope: broad range of natural and cultural resources
- \$3-4 million / year / center – with most of this as flexible research funds
- Competitively awarded to host institutions

Center Institution

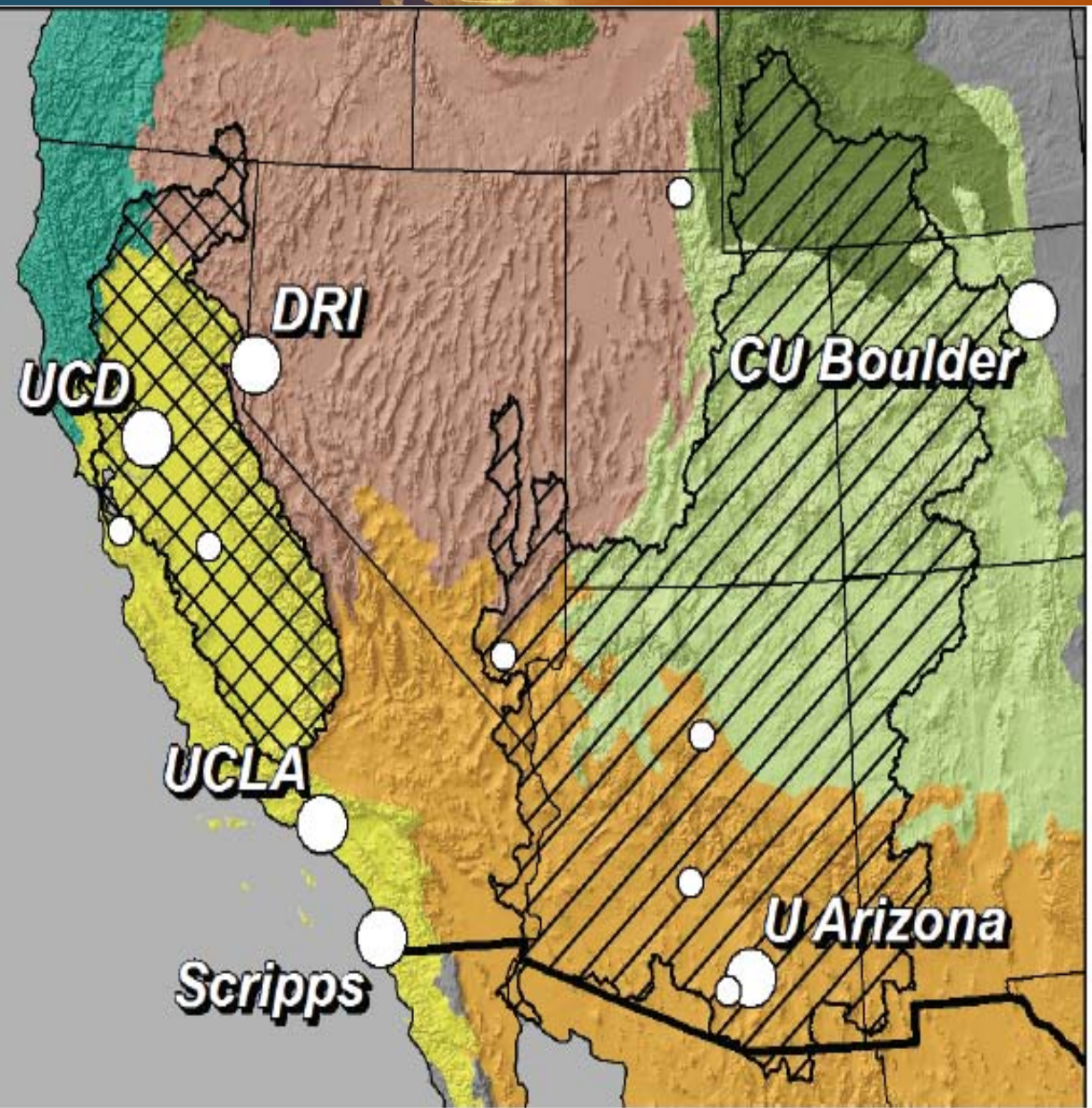
- Hosts
- Partners

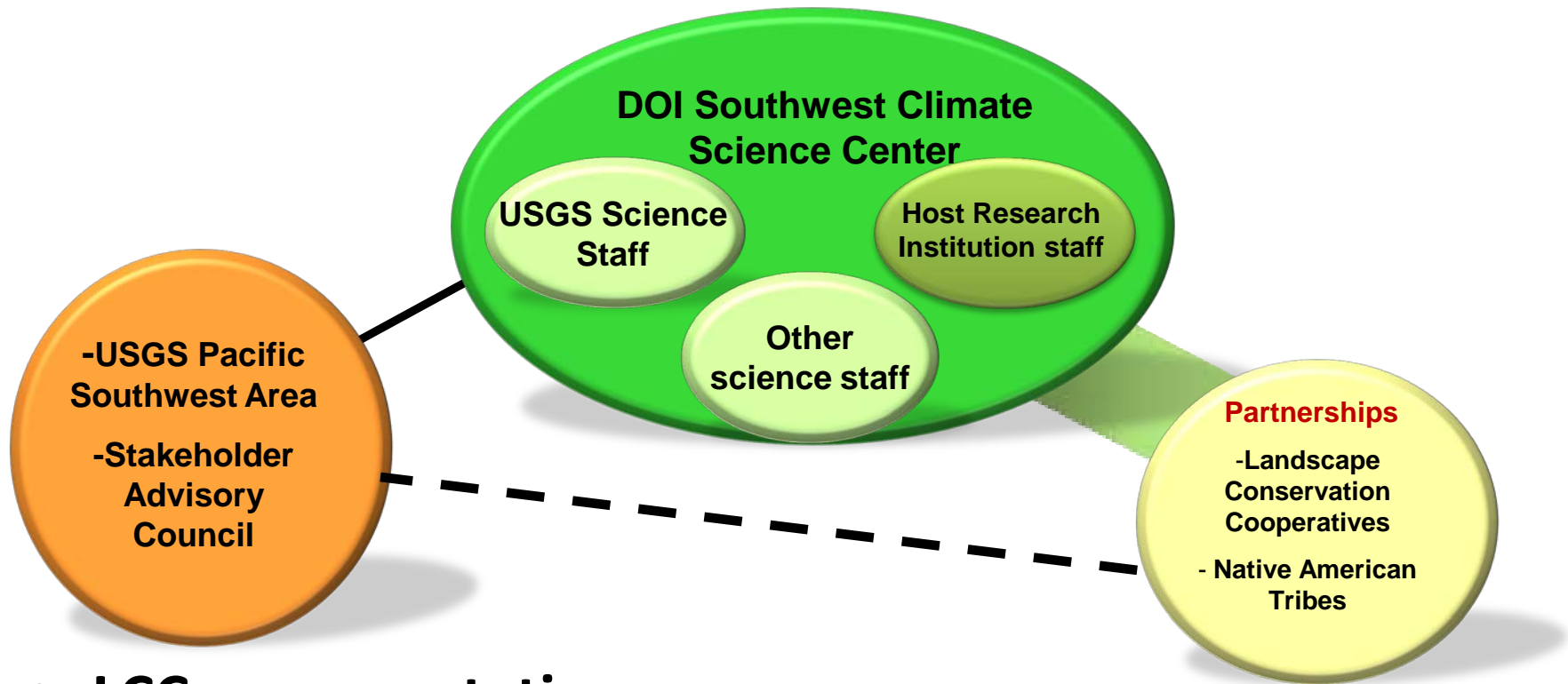
River Basins

-  Colorado
-  Sacramento-San Joaquin

Landscape Conservation Cooperatives

-  California
-  Desert
-  Great Basin
-  Great Northern
-  North Pacific
-  Southern Rockies





- LCC representation
- Agency participation
 - Federal and State
- Tribal governments



Across 4 LCCs, multiple regions and states



United States Department of the Interior

U.S. GEOLOGICAL SURVEY
Office of the Pacific Southwest Area Regional Executive
3020 State University Drive East
Modoc Hall, Suite 3005
Sacramento, CA 95819

On behalf of the Department of the Interior (DOI), I am seeking representatives for the executive-level Stakeholder Advisory Committee that will be advising the Southwest Climate Science Center on its research program.

Background on the Southwest Climate Science Center

In 2009, Secretary Salazar signed Secretarial Order 3289, calling for the establishment of a network of eight regional Climate Science Centers (CSCs) to provide scientific information needed by natural and cultural resource managers as they address the impacts of climate change. The US Geological Survey's National Climate Change and Wildlife Science Center in Reston, Virginia (NCCWSC, www.nccwsc.usgs.gov) is leading the development of these Centers. The order also called for the establishment of Landscape Conservation Cooperatives (LCCs) that bring together resource managers to plan for landscape scale conservation. LCCs offer another opportunity for involvement in climate adaptation planning. You may already be active with one or more LCCs in your area.

On October 20, 2010, DOI's Secretary Salazar announced the establishment of the Southwest Climate Science Center (SWCSC) to be one of eight Regional Climate Science Centers in a national network to help foster the research needed to understand regional implications of climate variability. The SWCSC is a federal-research institution partnership. With a director and small federal research staff, the SWCSC will integrate the expertise of a consortium of six research institution hosts and will be based in Tucson, Arizona (See below for list of institutions.) The specific research, monitoring, and data management activities of the SWCSC will be shaped by the needs of natural and cultural resource managers in the region. Information on the SWCSC is available on the internet at: www.doi.gov/csc/southwest

Stakeholder Advisory Committee meeting agenda:

- Introductions
- Review background for SWCSC formation and the SAC role
- What are the opportunities to shape the SWCSC mission?
- Is the SAC representation balanced and adequate on a geographic and organizational basis?
- How can we begin to communicate and synthesize our scientific priorities?
- How do we contribute to and guide development of the SWCSC Science Agenda?

FACING THE STORM

Indian Tribes, Climate-Induced Weather
Extremes, and the Future for Indian Country

NATIONAL WILDLIFE FEDERATION 2011



Native American Community Involvement:

- *Disproportionate Effects?*
- *SAC representation*
- *G-2-G Consultation*
- *LCCs as a venue*
- *AIAN Climate Change Working Group*
- *Southwest Climate Summit (June 11-14)*

dave_busch@usgs.gov

<http://www.doi.gov/csc/southwest/>

