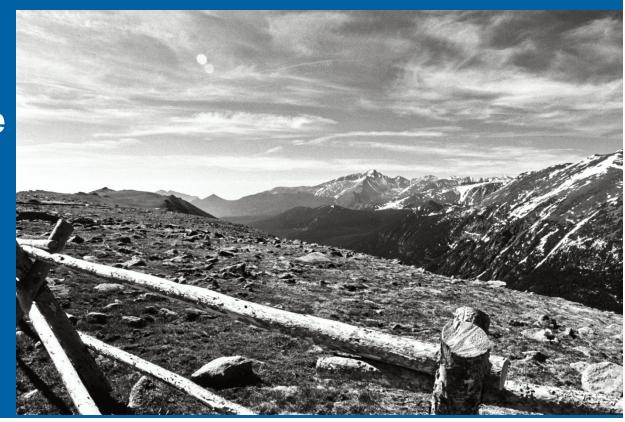


Human Dimensions of climate Change (HDCC)

An Interagency Collaborative for Natural Resource Management



U.S. Department of the Interior U.S. Geological Survey

Challenge to Natural Resource Management Agencies

- Natural resource agencies are challenged not only by climate change impacts on terrestrial and marine resources, but also by related effects on human communities that depend on these lands and waters.
- Effects include:
 - economic activity, subsistence practices, demographic trends, human health, recreation, infrastructure, and community resilience, and others



Focus of HDCC 1

- We will approach the issues across federal agencies, disciplines, and non-federal institutions.
- Develop a framework for identifying human impacts of climate change and opportunities for adaptation
 - useful for resource management
 - sufficiently flexible to meet the needs of multiple federal agencies.





Focus of HDCC 2

- The overall objective for the project is to focus on producing scientifically valid and consistent methods of analyzing human system resilience and vulnerabilities in an uncertain climate.
- A guiding principle of this project is to link social science and social systems with the natural science to understand the impacts of climate change.



Structure of HDCC 1

- Scoped as a 3 year project
- Core Project Team
 - establish primary framework & guidance

	Affiliation
Karen Blakney	BLM
Trish Clay	NOAA
Tom Fish	NPS
Joel Larson	BLM
Jessica Montag	BLM
John Primo	BOEM
Rudy Schuster	USGS
Natalie Sexton	FWS
Ben Simon	DOI Office of Policy Analysis
Rob Winthrop	BLM
Kurt Johnson	FWS
Dan Williams	U.S. Forest Service



Structure of HDCC 2

- Primary Working group
 - ~15 social science climate change experts from agencies and key partners
 - Mix of researchers and managers
 - Provide input in process, refine framework, create products
- Extended Working Group
 - Review, provide data etc., refine, provide input, disseminate products,



Objective 1

- Interagency Coordination:
 - Sustain a community of practice on the human dimensions of climate change that facilitates sharing of information and experience among scientists, managers, and community members.
 - At a national scale





Objective 2

Provide an interagency forum to apply and evaluate practices, data sets, and indicators concerning the human dimensions of climate change





Objective 3

- Using this information, develop a common framework across agencies for assessing and responding to the human effects of climate change relevant to resource management.
 - Assessment protocols?





(photo: www.boston.com)

Identify key questions on the human dimensions of climate change to prioritize information needs.





- Climate Change Case Studies:
 - Understand the suite of human systems impacts and relationships with natural resources in a specific context
 - First target area is open for discussion!
 - Will choose other areas to represent diversity
 - resources, agencies, human systems, etc.
 - Make relevant to other Climate Change response efforts

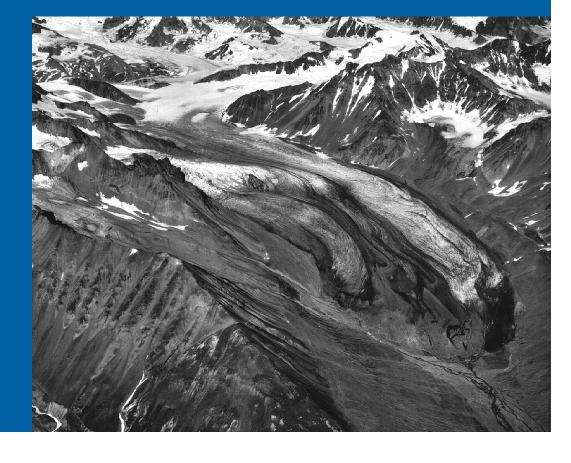




Photograph of Gulkana Glacier on August 31, 1967, USGS, #67L3-85.

- Social-Economic Project Database:
 - Current and completed federal land management, domestic non-federal, and international socialeconomic climate change projects
 - Information will be used to feed a collaborative network (e.g. LCC & Climate Science Centers)
 - Allow researchers to interact, enter their data, and query the database





Photograph of Gulkana Glacier, Alaska on August 25, 1987. Photograph by Bob Krimmel, USGS, #87R3-218.



Photograph of Gulkana Glacier on August 31, 1967, USGS, #67L3-85.

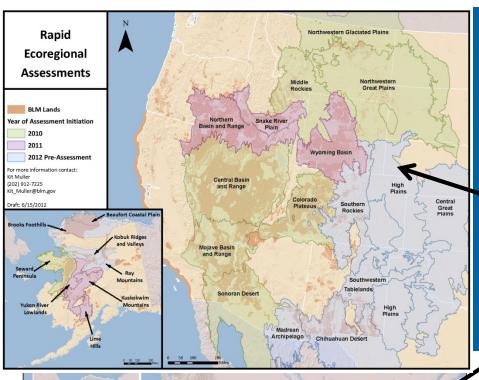
Photograph of Gulkana Glacier, Alaska on August 25, 1987. Photograph by Bob Krimmel, USGS, #87R3-218.





- Principles & Guidelines Document:
 - on the use of social science methods to inform resource management decisions related to climate change
 - Modeled on the widely-used Principles and Guidelines for Social Impact Assessment (1994)
 - Accessible guide for both social scientists and resource managers.
 - This document will be a synthesis of results from the other tasks in this project as well as other sources





Make relevant to other **Climate Change** response efforts

Rapid Ecoregional Assessments

> Climate Science Centers

Landscape Conservation Cooperatives



Northwest CSC

Southwest CSC

6. Oregon State University
7. University of Idaho
8. University of Washington

University of Arizona
 Desert Research Institute (Nevada)

National Climate Change and Wildlife Science Center CSC Lead Institutions CSC Institutions

Alaska CSC

- Pacific Islands CSC
- 5. University of Guam

University of Hawaii at Manoa
 University of Hawaii at Hilo

EXPLANATION

North Central CSC

- 16. Colorado School of Mines
- 17. Iowa State University 18. Kansas State University 19. Montana State University
- 20. University of Montana 21. University of Nebraska Lincoln 22. University of Wyoming 11. University of California - Davis 12. University of California - Los Angeles
- 13. Scripps Institute of Oceanography
- 14 University of Colorado South Central CSC
 - 23. University of Oklahoma 24. Texas Tech University
 - 25. Oklahoma State University 26. Chickasaw Nation 27. Choctaw Nation of Oklahoma

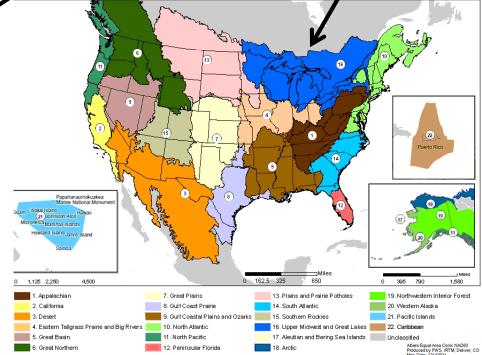
 - 28. Louisiana State University
 29. NO AA Geophysical Fluid Dynamics Laboratory

Northeast CSC

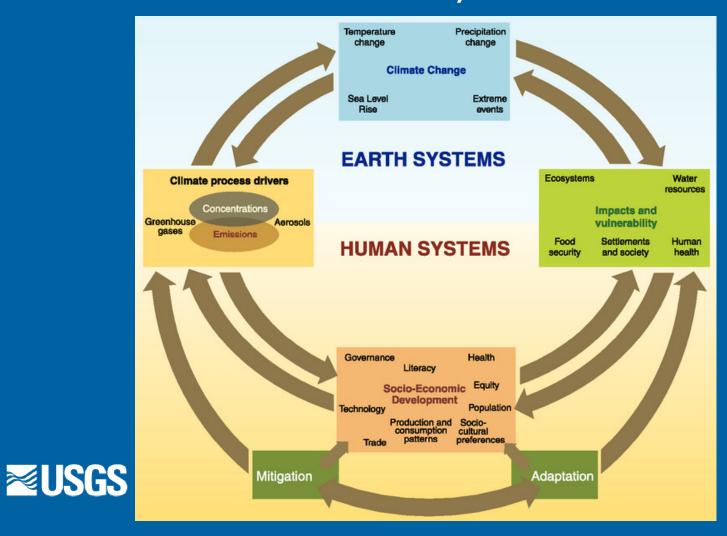
30. University of Massachusetts Amherst 31. University of Minnesota 32. College of Menominee Nation

University of Wisconsin - Madison
 University of Missouri Columbia
 Columbia University

36. Marine Biological Laboratory Southeast CSC

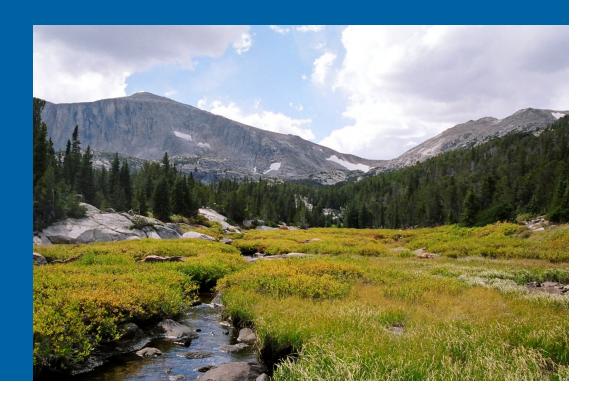


Schematic framework of anthropogenic climate change drivers, impacts and responses in the Social-Ecological System (adopted from IPCC 2007)



Current Status

- Many Committee meetings
- Term Hire
- PhD Student Hire





Questions



