

USDA Regional Hubs for Risk Adaptation and Mitigation to Climate Change



Today's Topics:

Climate Hub overview

Climate Hub regions & locations

Climate Hub Selection Process

What's next



What are the Climate Hubs?



Vision: Agricultural production and natural resources maintained and strengthened under increasing climate variability and environmental change

Mission: To develop and deliver science-based, region-specific information and technologies through USDA agencies to agricultural and natural resource managers that enable climate-smart decision-making.



USDA Regional Climate Hubs will provide:

- **Technical Support**
- **Assessments and Forecasts**
- **Outreach and Education**

USDA provides:

- Information Delivery
- Tools
- Research



USDA Regional Climate Hubs will provide:

- 1. Technical Support**
- 2. Assessments and Forecasts**
- 3. Outreach and Education**

USDA will work with Federal Partners:

- National Climate Assessment
- NOAA's Regional Integrated Sciences and Assessments Program
- DOI's Climate Science Centers
- DOI's Landscape Conservation Cooperatives

Conceptual Framework for a USDA Regional Hub

Science and Technology providers:

Federal Partners

NOAA RISA
USGS CSC
DOE
NASA
etc

USDA Intramural
Research
(ARS/FS/ERS/NRCS)

USDA Extramural
funded Research
(NIFA)

Non-Federal Partners

Agricultural
Experiment
Stations
Many others

Science
Coordination,
Synthesis, and
Tools

CLIMATE HUB

Links with other Hubs & National Coordinator

Technology Transfer providers:

Cooperative
Extension

USDA Service
Centers

Forest Service
Threat Centers

State
Climatologists

Others

Information and tools

Questions and feedback

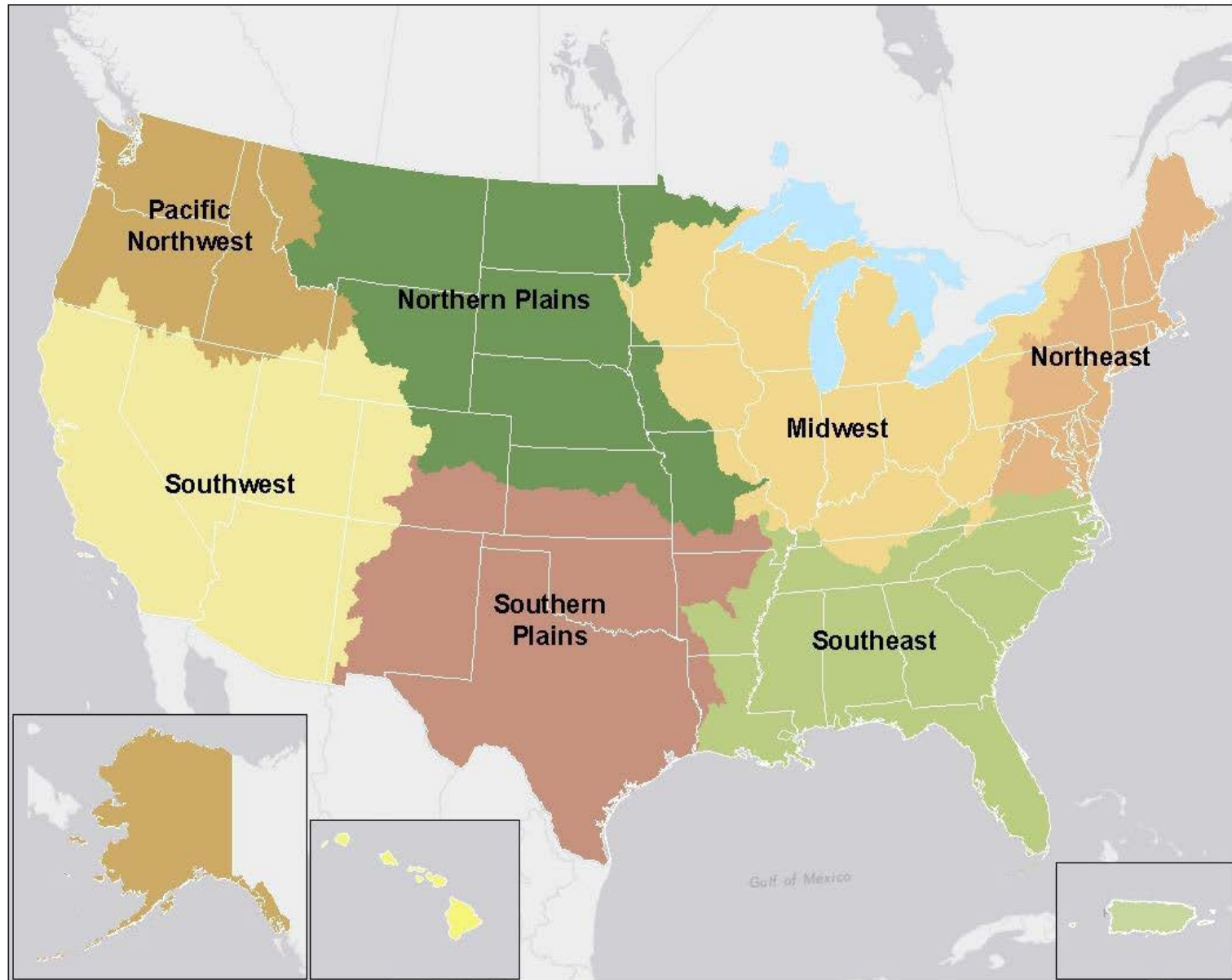
Stakeholders and Stakeholder group: Farmers / Ranchers / Forest Managers / Tribes / States / Feds / LCCs / Others



Where are the Climate Hubs?

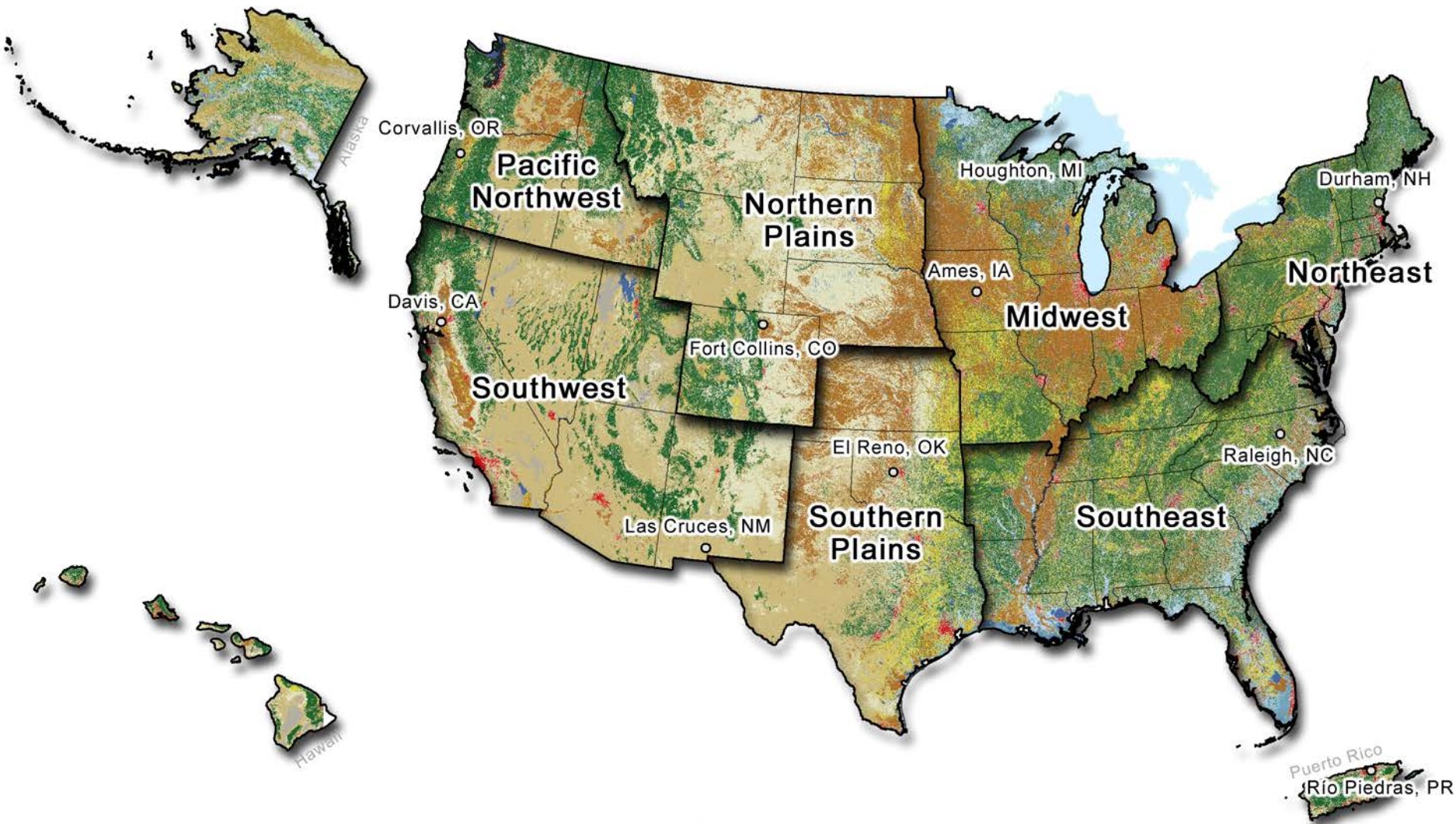


Original USDA Climate Hub Regions

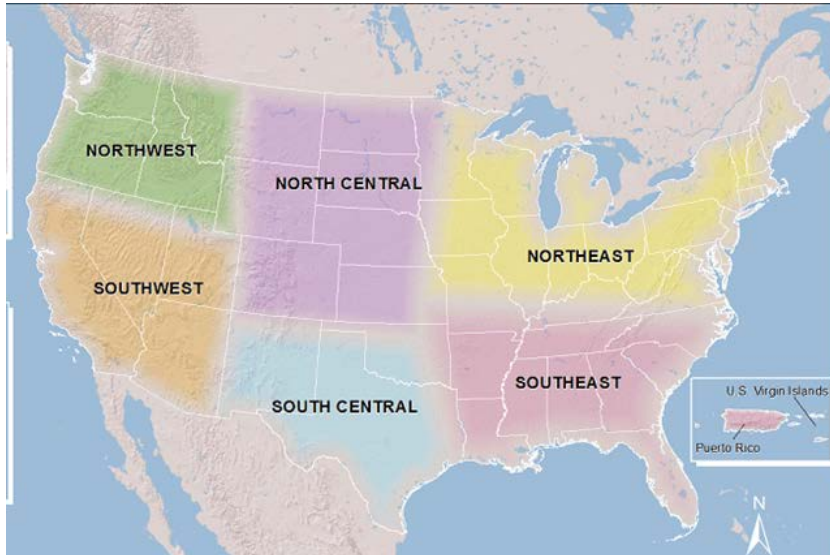




Revised USDA Climate Hub Regions

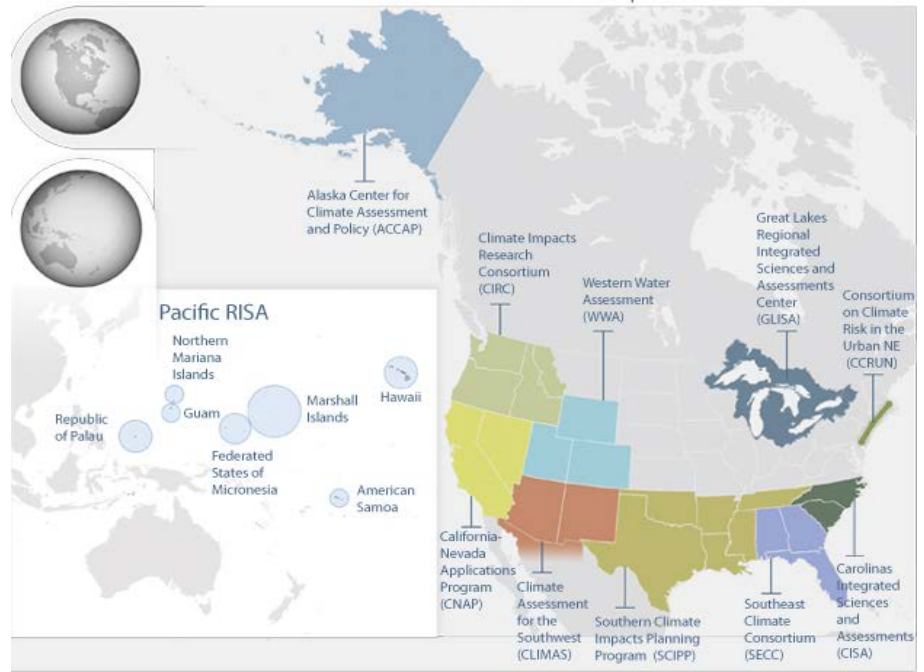


USGS Climate Science Centers

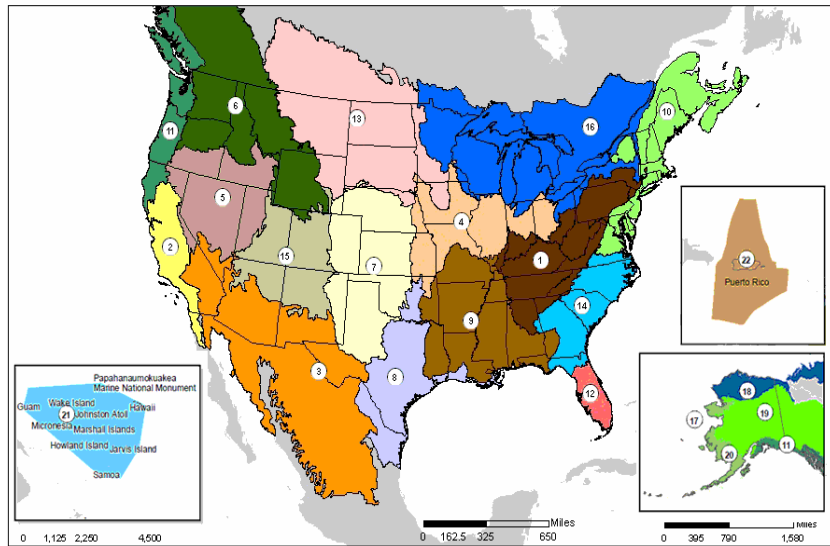


Other federal regional efforts associated with climate change

NOAA Regional Integrated Science and Assessments



FWS Landscape Conservation Cooperatives



- | | | | |
|---|-----------------------------------|-------------------------------------|----------------------|
| 1. Appalachian | 7. Great Plains | 13. Plains and Prairie Potholes | 19. Northwest Boreal |
| 2. California | 8. Gulf Coast Prairie | 14. South Atlantic | 20. Western Alaska |
| 3. Desert | 9. Gulf Coastal Plains and Ozarks | 15. Southern Rockies | 21. Pacific Islands |
| 4. Eastern Tallgrass Prairie and Big Rivers | 10. North Atlantic | 16. Upper Midwest and Great Lakes | 22. Caribbean |
| 5. Great Basin | 11. North Pacific | 17. Aleutian and Bering Sea Islands | Undesignated |
| 6. Great Northern | 12. Peninsular Florida | 18. Arctic | |
- Albers Equal Area Conic NAD83
Produced by FWS, IRFM, Denver, CO
Map Date: 12/4/2011



**What was the process
to choose the Hubs?**



June 2013

- Hubs announced

June-August
2013

- Internal, competitive process among USDA facilities to serve as a Hub

August 21, 2013

- Hub proposals due

September 2013-
January 2014

- Proposals reviewed by climate change experts (USDA, NOAA, CEQ, DOI)

February 5, 2014

- Hub locations announced



Proposals showed overwhelming support:

- **90** Universities
- **14** State Government Departments
- **5** Tribal Communities
- **3** Private Companies
- **34** NGO's
- **58** Partnerships with federal agencies, local offices, or federal initiatives



**Over 200
letters of
support**



What's next for the Hubs?



February- December 2014

- Work with partners and stakeholders to assess needs and capabilities
- Establish work plans
- Establish web presence
- Assess regional vulnerabilities to ID most pressing issues



Questions?