

Tribes and The National Climate Assessment

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National Climate Assessment Development and
Advisory Committee

<http://assessment.globalchange.gov>



Discussion Overview

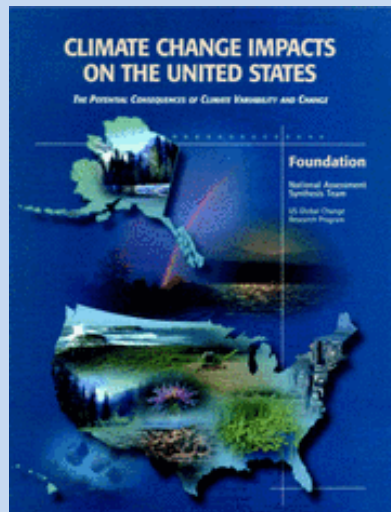
- National Climate Assessment Background
- National Climate Assessment Structure and Process
- Outline and Structure of the 2013 Report
- Assessment Activities to Date
- Tribal and Indigenous input into the Climate Assessment
- Timeline
- Contacts
- Questions and Answers

Global Change Research Act (1990), Section 106

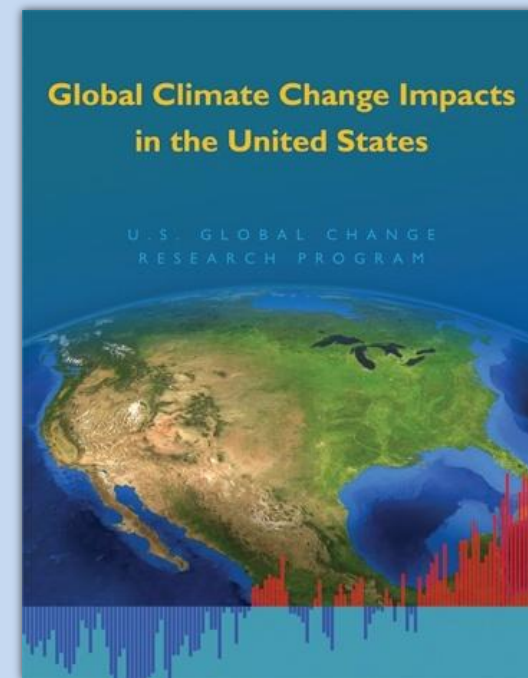
- **...not less frequently than every 4 years, the Council... shall prepare... an assessment which –**
 - integrates, evaluates, and interprets the findings of the Program and discusses the scientific uncertainties associated with such findings;
 - analyzes the effects of global change on the natural environment, agriculture, energy production and use, land and water resources, transportation, human health and welfare, human social systems, and biological diversity; and
 - analyzes current trends in global change, both human-induced and natural, and projects major trends for the subsequent 25 to 100 years.

Previous National Climate Assessments

Climate Change Impacts on the United States (2000)



Climate Change Impacts in the United States (2009)



Target date for next NCA: 2013

NCA Goal and Vision

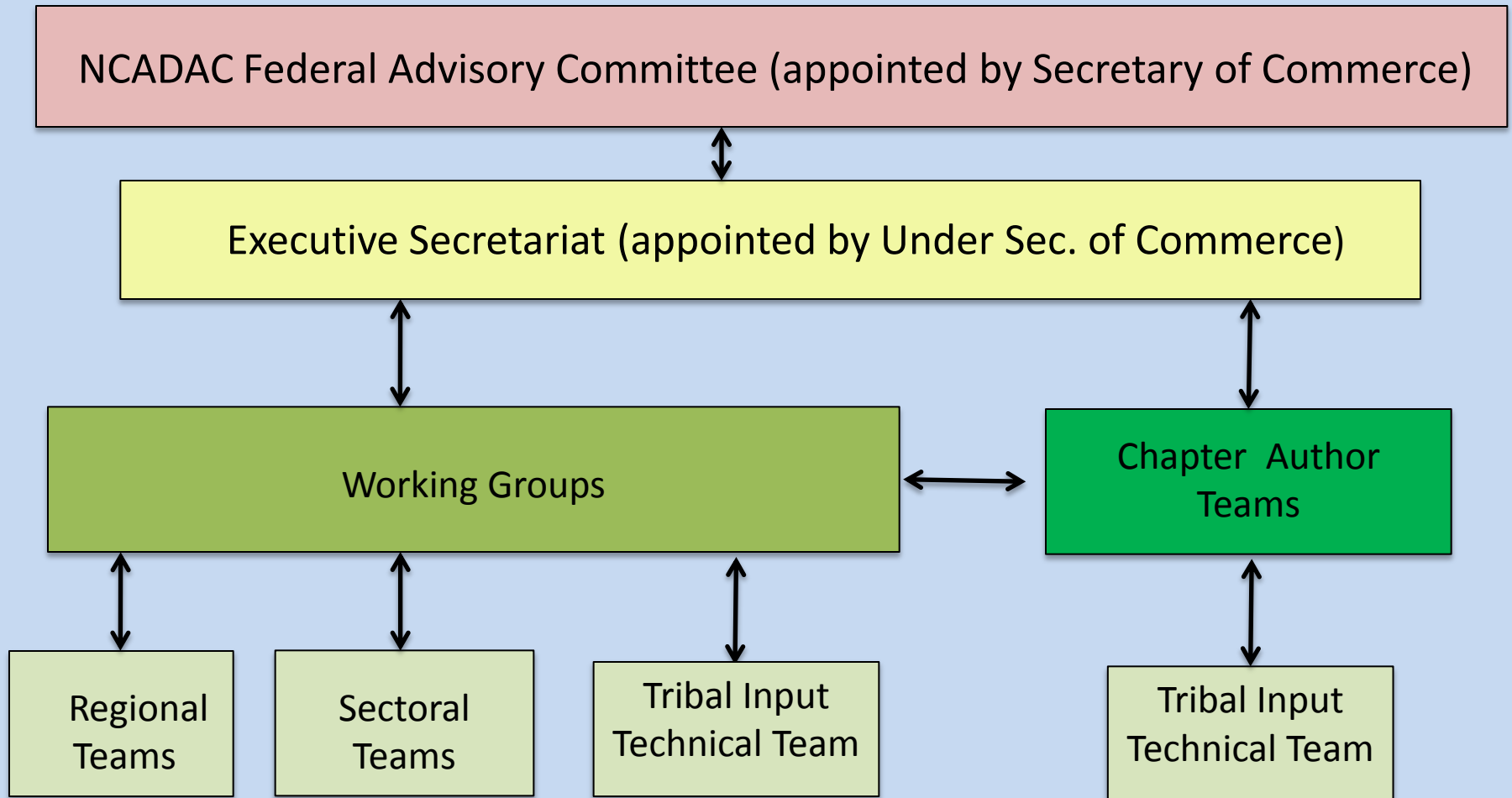
- The overarching **goal** is to *enhance the ability of the United States to anticipate, mitigate and adapt to changes in the global environment.*
- The **vision** is to *advance an inclusive, broad-based, and sustained process for assessing and communicating scientific knowledge of the impacts, risks and vulnerabilities associated with a changing global climate in support of decision-making across the United States.*

National Climate Assessment

Development and Advisory Committee

- **60 member** federal advisory committee, including 45 non-federal members and 16 federal ex-officio representatives
 - Chair: Jerry Melillo, Marine Biological Laboratory
 - Vice Chairs: T.C. Richmond, Gordon Derr, LLP and Gary Yohe, Wesleyan University
 - 13 member Executive Secretariat
- Wide variety of expertise and perspectives
- Providing advice on both the 2013 Report AND on the ongoing process
- Responsible for authoring the Assessment report(s) to the USGCRP that will be the basis of the report to the President and Congress

NCA Structure (*cont.*)



The Next National Climate Assessment (NCA)

- **Sustainable process** with multiple products over time
- New topics, **cross-sectoral studies**
- Consistent national matrix of **indicators**
- Central coordination, multiple **partners**
- Regional and sectoral **networks** building assessment **capacity**
- Recognizes **international context**
- Engagement and communications focus
- Web-based data and **tools for decision support**
- Process workshops to establish **methodologies**

Products of the NCA

- Periodic **report or reports to Congress**
- Dynamic **web-based** data and products
- Regional, sectoral and institutional **adaptation and assessment capacity**
- **Methodologies** for conducting assessments at multiple scales
- **Ongoing national evaluations** of changes in climate trends, impacts and risks
- Process **documentation**
- **Communications and information** products

Outline for 2013 Report

- The scientific basis for climate change
- Sectors and sectoral cross-cuts
- Regions and biogeographical cross-cuts
- Mitigation and adaptation
- Agenda for climate change science
- The NCA long-term process

Sectors

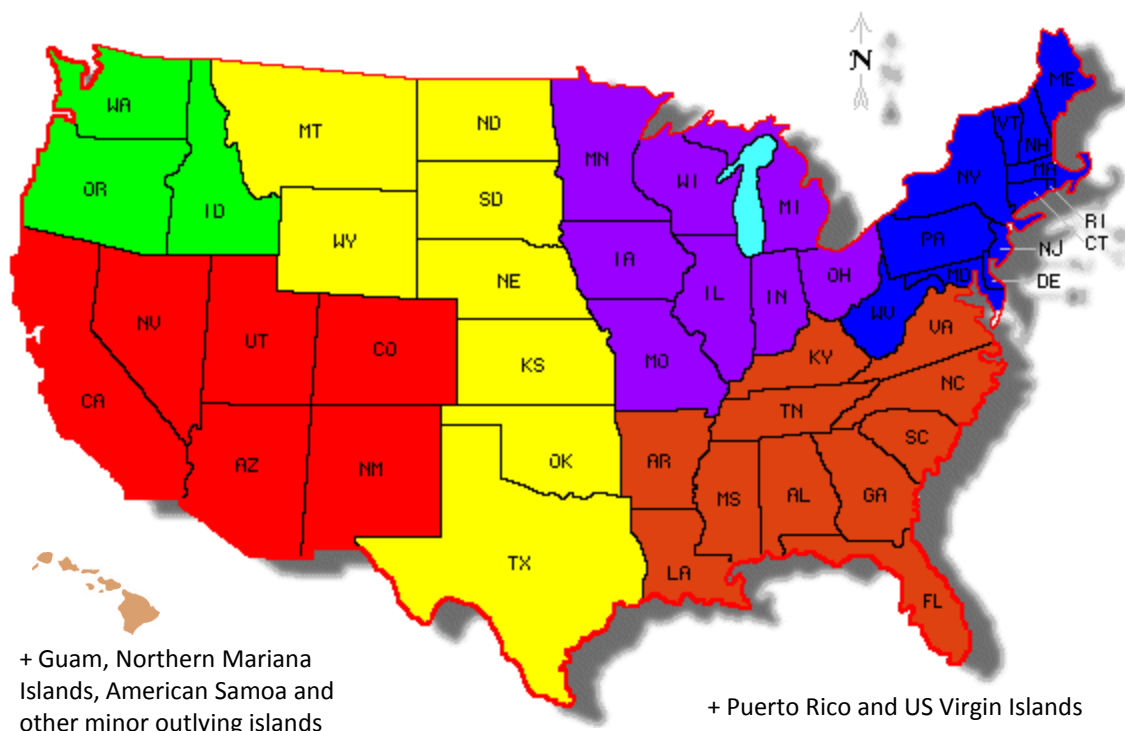
- Water resources
- Energy supply and use
- Transportation
- Agriculture
- Forestry
- Ecosystems and biodiversity
- Human health

Sectoral Cross-Cuts

- Water, energy, and land use
- Urban/infrastructure/vulnerability
- Impacts of climate change on tribal, indigenous, and native lands and resources
- Land use and land cover change
- Rural communities, agriculture, and development
- Impacts on biogeochemical cycles

Regions

- Northeast
- Southeast and Caribbean
- Midwest
- Great Plains
- Northwest
- Southwest
- Alaska and Arctic
- Hawaii and Pacific Islands



**National
Climate
Assessment**

U.S. Global Change Research Program

Biogeographical Cross-Cuts

- Oceans and marine resources
- Coastal zone, development, and ecosystems, with case studies including
 - SF Bay Delta
 - Chesapeake
 - Gulf Coast
- Drainage basins, with case studies including
 - Great Lakes
 - Colorado River
 - Columbia River

Assessment Activities to Date

- **Interagency National Climate Assessment (INCA)** team established
 - 18 staff from Federal agencies have met biweekly since spring 2010 to produce inputs for NCADAC consideration
- **Draft strategic plan, outline, and work plan** prepared
 - Strategic planning workshops (February 2010)
 - Development through INCA TF (2010-2011)
 - Discussions with four National Academies panels (Spring/Summer 2010)
 - Request for comments through Federal Register (September 2010)
 - Revision by NCA Development and Advisory Committee (May 2011)
- **Agency staffing and budget plan completed** (October 2010)
- **14 process workshops** completed (February 2010 - April 2011)
- NOAA-sponsored **NCA Development and Advisory Committee** appointed
 - Meetings April 4-6, May 20, August 16-18, November 14-15, 2011
 - Chapter Convening Author Meeting Tucson AZ January 16-18. 2012
- **Request for Information** published in Federal Register (July 13, 2011)
- **Regional and Sectoral Input Workshops** (Ongoing)

Steps Forward

- Prioritize near-term activities to support the 2013 report while developing long-term strategy and capacity
- Deploy regional, sectoral, and cross-cutting assessments
 - NCADAC-formed teams
 - Agency-led teams
 - External teams (Request for Information)
 - Expressions of interest due **October 1, 2011**
 - Technical inputs due **March 1, 2012**
- Inventory existing assessments and data sources
- Develop indicator and scenarios strategies
- Network building and engagement

Tribal Input into NCA

How can Tribes and Indigenous People input into the NCA Report?

How can Tribes and Indigenous People input into the NCA Process?

Tribal Input Technical Team

- **Beau Mitchell** – Sustainable Development Institute / College of Menominee Nation
- **Steve Crawford** – Passamaquoddy Tribe
- **Sue Wotkyns** – Institute for Tribal Environmental Professionals
- **Kathy Lynn** – Pacific Northwest Tribal Climate Change Network, U of Oregon
- **Jose Aguto** – National Congress of American Indians
- **Garrit Voggeser** – National Wildlife Federation
- **Bob Gough** – Intertribal Council on Utility Policy
- **Pat Spears** – Intertribal Council on Utility Policy
- **Doug Kluck** – Central Region Climate Services Center / NOAA
- **Nancy Maynard** – IPCC / NASA
- **Carl Hild** – Alaska Pacific University
- **Victoria Hykes Steere** – Inupiat
- **Michelle Davis** – Region 10 EPA
- **Ralph Cantral** – US Global Change Research Program / NCADAC
- **Bull Bennett** – Kiksapa Consulting, LLC / NCADAC

Tribal Input Technical Team: Roles and Responsibilities

- Engagement: Get the word out to Indian Country
- Provide Tribal Technical Inputs
- Coordinate Tribal Technical Inputs
- Assist the NCADAC in organizing Tribal Technical Inputs
- Provide feedback on the Inputs
- Provide feedback on Chapter structure and content

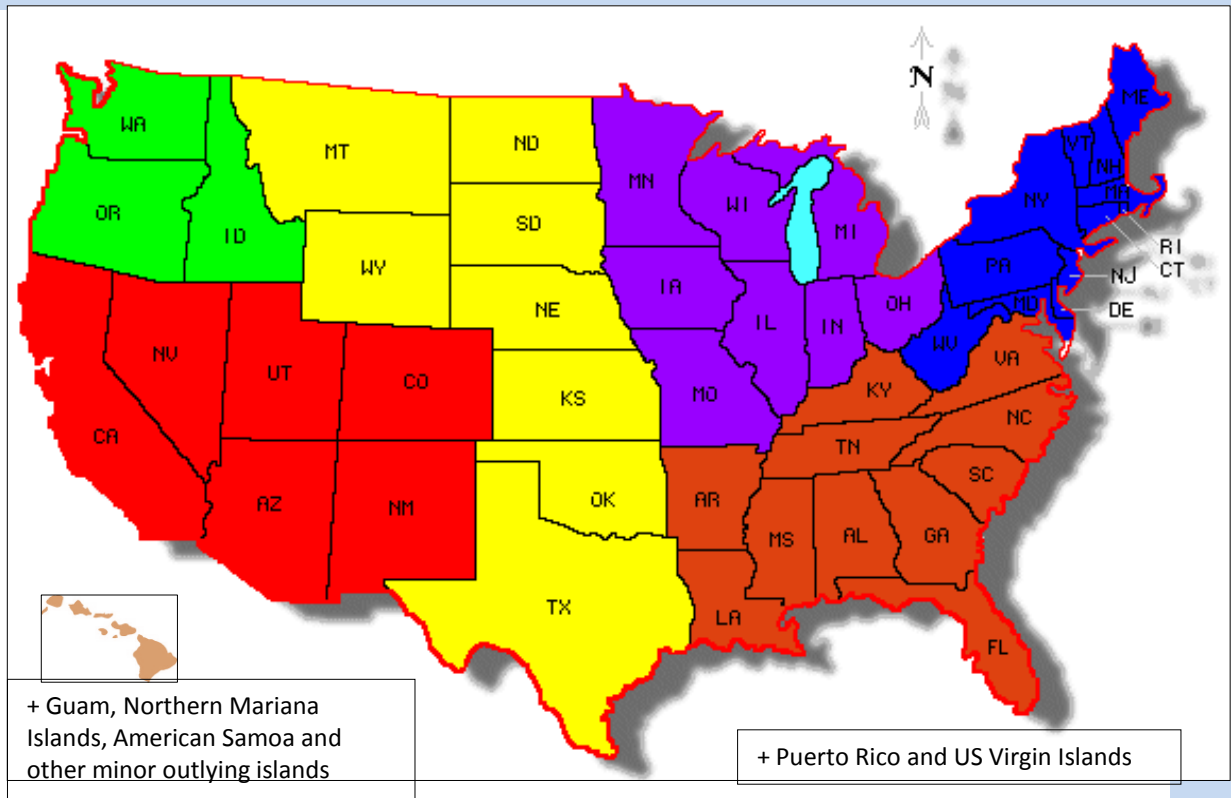
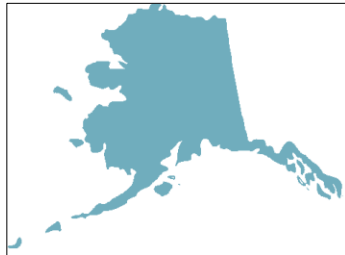
Sectoral Cross-Cuts

- Water, energy, and land use
- Urban/infrastructure/vulnerability
- **Impacts of climate change on tribal, indigenous, and native lands and resources**
- Land use and land cover change
- Rural communities, agriculture, and development
- Impacts on biogeochemical cycles

Organization of the Tribal Technical Inputs

Tribal Input

- Northeast
- Southeast and Caribbean
- Midwest
- Great Plains
- Northwest
- Southwest
- Alaska and Arctic
- Hawaii and Pacific Islands

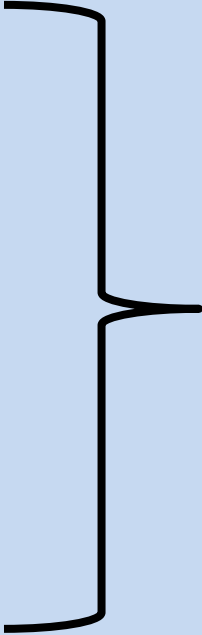


**National
Climate
Assessment**

U.S. Global Change Research Program

Sectors

- Water resources
- Energy supply and use
- Transportation
- Agriculture
- Forestry
- Ecosystems and biodiversity
- Human health



Tribal input from a regional perspective

Regional Technical Input Coordinators

- **Northeast** – Steve Crawford
- **Southeast and Caribbean** – Steve Crawford
- **Midwest** – Doug Kluck, Beau Mitchell
- **Great Plains** – Bob Gough, Pat Spears, Bull Bennett
- **Southwest** – Sue Wotkyns, Sophi Beym
- **Northwest** – Kathy Lynn, Michelle Davis
- **Alaska and Arctic** – Carl Hild, Victoria Hykes Steere, Michelle Davis
- **Hawaii and Pacific Islands** – Bull Bennett, Jose Aguto
- **National** – Jose Aguto, Garrit Voggesser, Nancy Maynard, Bull Bennett

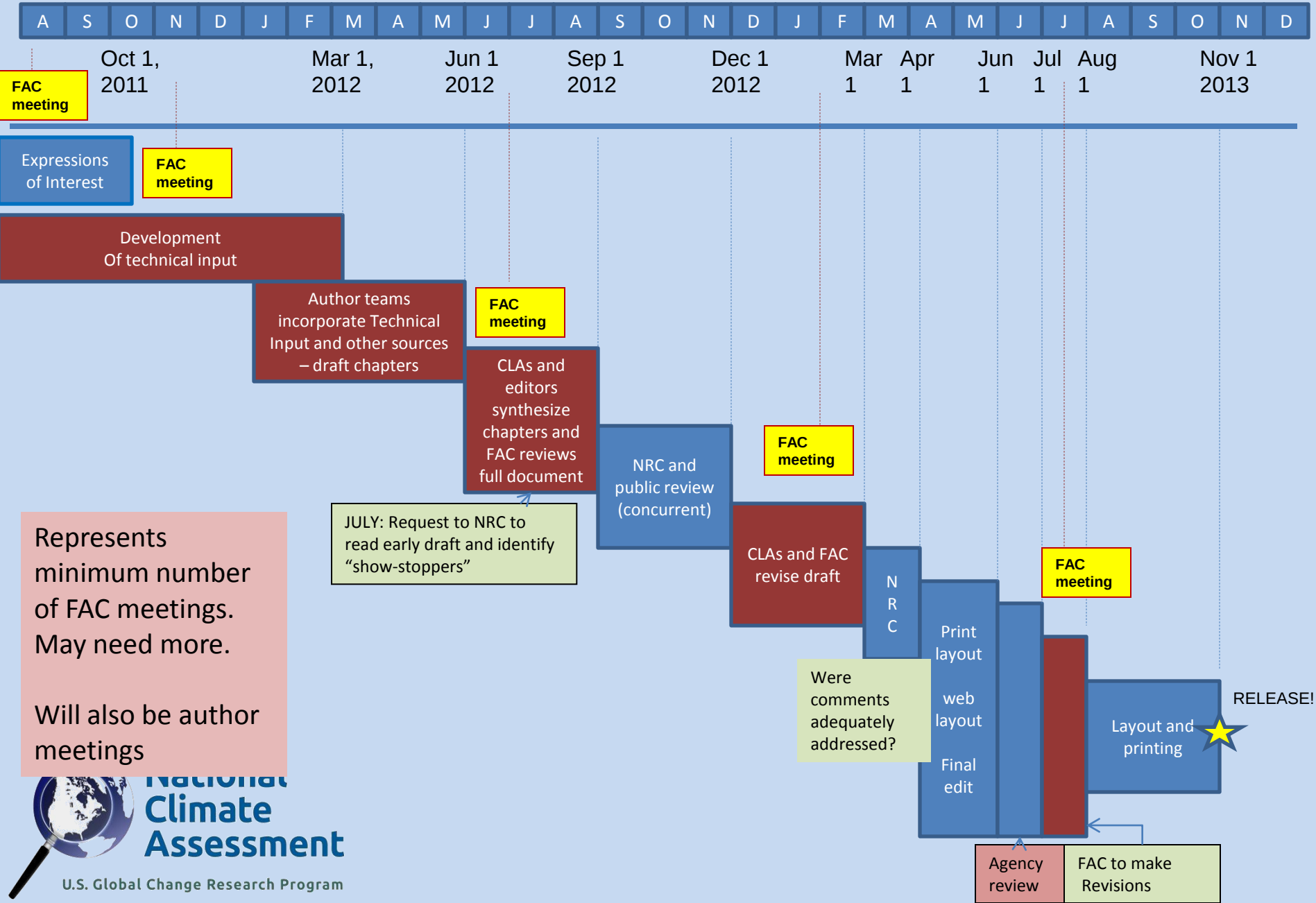
Opportunities for Participation

- Request for Information (July 13 Federal Register Notice)
 - Developing technical inputs, e.g.,
 - Literature reviews, discussion papers, and other review papers
 - Case studies
 - Modeling results, interpretation of data, and topical reports
 - Providing assessment capacity
 - Hosting meetings and workshops
 - Supporting indicator systems
 - Network partners – linking the Assessment to their constituents
- Participating in assessment activities hosted by technical input teams
- Responding to public comment and public review requests

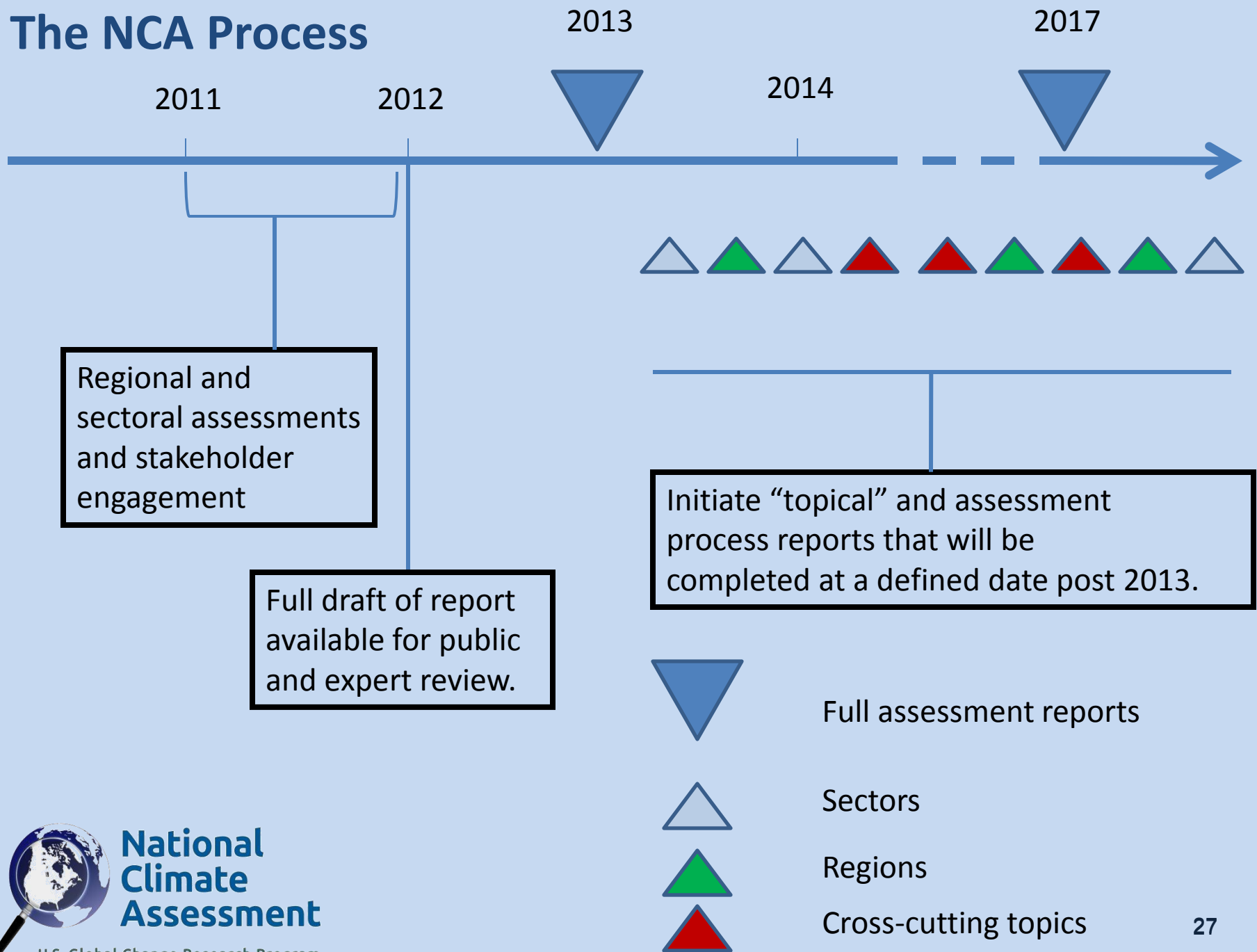
How to Input into the National Assessment

- Respond to Request for Information – Submit Expression of Interest (Tribal Input Technical Team; Oct, 2011)
- Peer reviewed literature
- Workshop proceedings / findings
- Elder testimony – traditional / cultural knowledge
- Source Information:
 - Background Information about the Source: Who, What, When, Where
 - Describe Impacts on resources important to indigenous peoples
 - Primary Point of Contact (Phone, Email, Website, Address)
 - Specific NCA topic(s) of interest
 - Source Informant: what makes them qualified
- **Funding Available** to support Tribal Input workshops!!!

"Production" Timeline for NCA



The NCA Process



Get Involved!

- Contact your Regional Technical Input Coordinators
 - Northeast – Steve Crawford
 - Southeast – Steve Crawford
 - Midwest – Beau Mitchell, Doug Kluck
 - Great Plains – Bob Gough, Pat Spears, Bull Bennett
 - Southwest – Sue Wotkyns, Sophi Beym
 - Northwest – Kathy Lynn, Michelle Davis
 - Alaska and Arctic – Carl Hild, Victoria Hykes Steere, Michelle Davis
 - Hawaii and Pacific Islands – Jose Aguto, Garrit Voggesser, Bull Bennett
 - National – Jose Aguto, Nancy Maynard, Garrit Voggesser, Bull Bennett, Ralph Cantral

Tribal Input Coordinators Contact Information

- Jose Aguto - Jose_Aguto@NCAI.org
- Steve Crawford - stevecrawford@wabanaki.com
- Garrit Voggesser - voggesser@nwf.org
- Carl Hild - child@alaskapacific.edu
- Victoria Hykes Steere - vhsteere@alaskapacific.edu
- Michelle Davis - davis.michelle@epa.gov
- Sue Wotkyns - Susan.Wotkyns@nau.edu
- Beau Mitchell - bmittchell@menominee.edu
- Bob Gough - gough.bob@gmail.com
- Sophi Beym - sophi.beym@gmail.com
- Doug Kluck - Doug.Kluck@noaa.gov
- Kathy Lynn - kathy@uoregon.edu
- Nancy Maynard - nancy.g.maynard@nasa.gov
- Bull Bennett – bbennett@kiksapa.com
- Ralph Cantral - rcantral@usgcrp.gov

For more information, please visit
<http://assessment.globalchange.gov>

