
NCA4 Contributor Webinar

US Global Change Research Program National Coordination Office Staff

September 2016



U.S. Global Change
Research Program

Who We Are:

USGCRP's NCA Team



Ben DeAngelo
Deputy Executive Director
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Tess Carter
NCA Program Coordinator



Fred Lipschultz
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**MEMBER AGENCIES
OF THE UNITED STATES
GLOBAL CHANGE
RESEARCH PROGRAM**



U.S. Global Change Research Program

- USGCRP began as a Presidential Initiative in 1989
- Mandated by Congress in the Global Change Research Act of 1990 (P.L. 101-606), “to assist the Nation and the world to **understand, assess, predict and respond** to human-induced and natural process of global change”



National Climate Assessment: GCRA (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 (USGCRP) 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.**

National Climate Assessment Vision

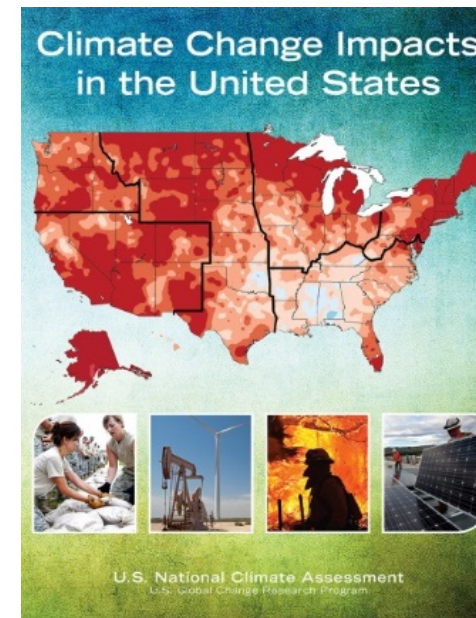
To advance an **inclusive, broad-based, and sustained** process for assessing and communicating scientific knowledge of the impacts, risks, and vulnerabilities associated with a changing global climate in support of decision-making across the United States



NCA1

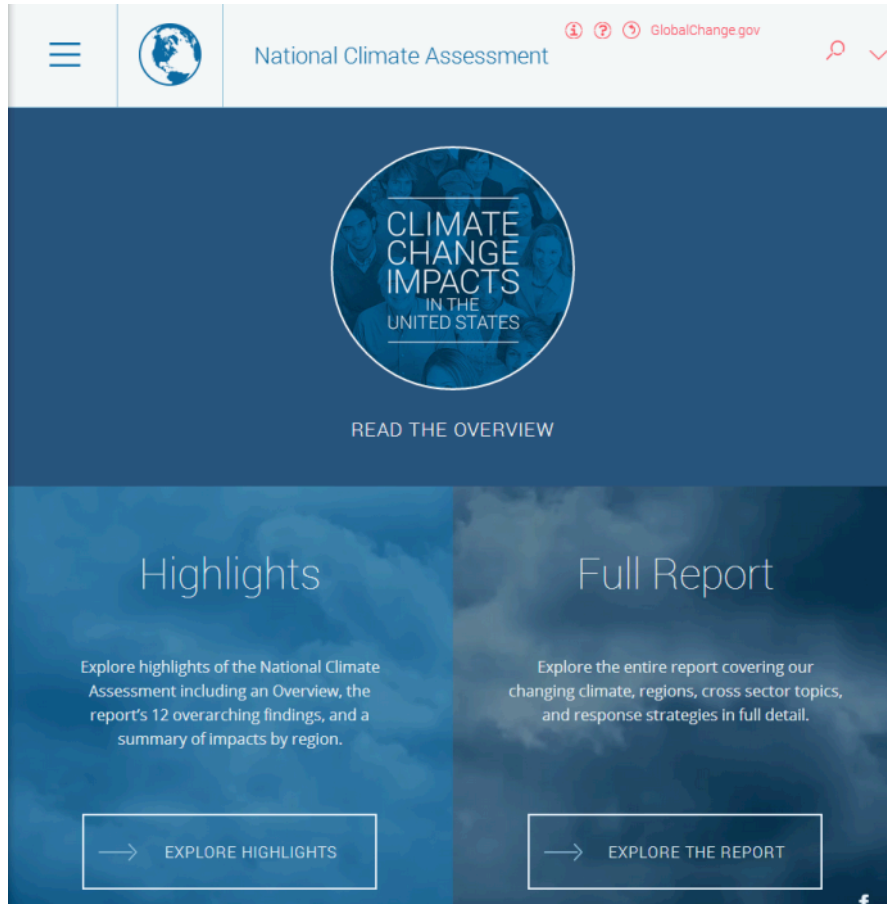


NCA2



NCA3

Building on NCA3's Success



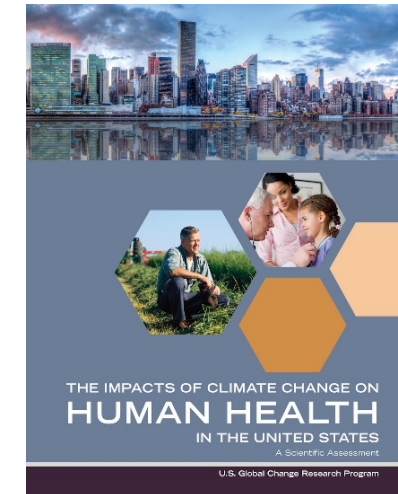
Five aspects of NCA3 were crucial to its success:

- Assessment based on broad scientific and technical inputs
- Stakeholder engagement
- Clear communication principles
- Transparency of process and information
- An extensive review process

Sustaining Assessments

Topical Reports and Special Assessments

- Climate Science Special Report (underway)
- Second State of the North American Carbon Cycle Report (underway)
- Climate and Health Assessment (April 2016)
- Food Security Assessment (December 2015)



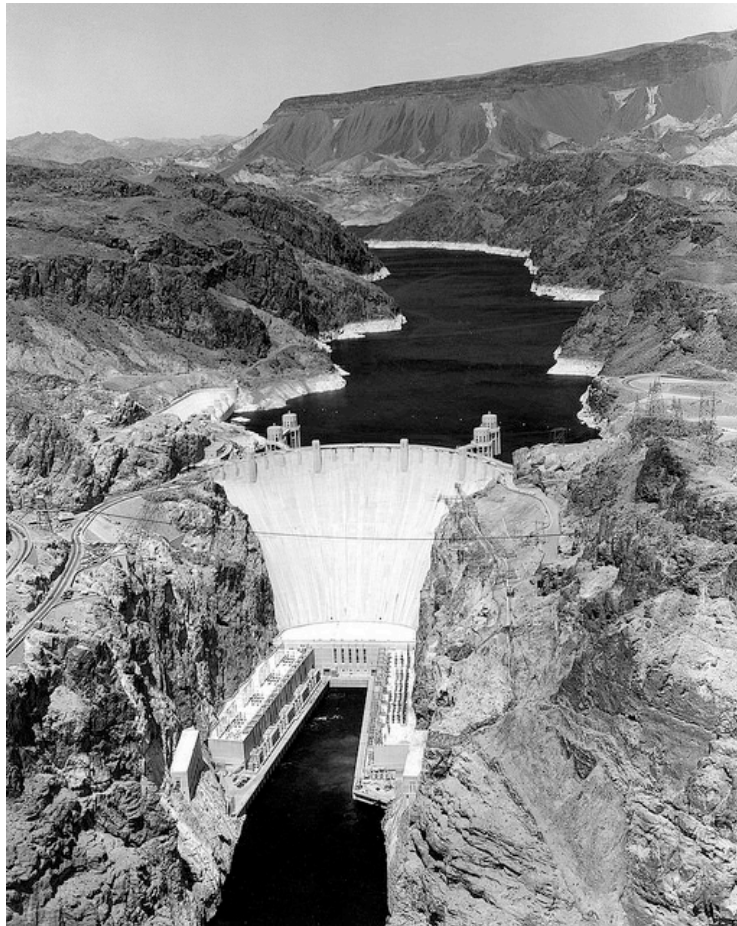
Moving Forward with NCA4

- Planned release in late 2018
- NCA4 is led by a Federal Steering Committee
- NCA4 will continue the strong engagement with the non-Federal community
- Climate Science Special Report underway to provide scientific foundation
- Authorship model developed with NOAA (as administrative agency)
- We had an initial public comment on NCA4 draft outline (closed July 29)
 - 40 comments received from a wide variety of stakeholders

NCA4 Chapters

- **I: Overview**
- **II: Our Changing Climate**
- **III: National Analyses**
 - Water
 - Energy
 - Ecosystems, Ecosystem Services, and Biodiversity
 - Oceans and Marine Resources
 - Coastal Effects
 - Agriculture and Food Production
 - Forests
 - Land Cover and Land Use Change
 - Transportation
 - Built Environment, Urban Systems, and Cities
 - Human Health
 - Air Quality
 - Energy, Water, Land Nexus
 - Tribal and Indigenous Communities
 - North American and Other International Effects
- **IV: Regional Analyses**
 - Northeast
 - Southeast and Caribbean
 - Midwest
 - Northern Plains
 - Southern Plains
 - Northwest
 - Southwest
 - Alaska
 - Hawai`i and Pacific Islands
- **V: Response**
 - Near-term Adaptation Needs and Increased Resiliency
 - Mitigation: Avoiding and Reducing Long-term Risks

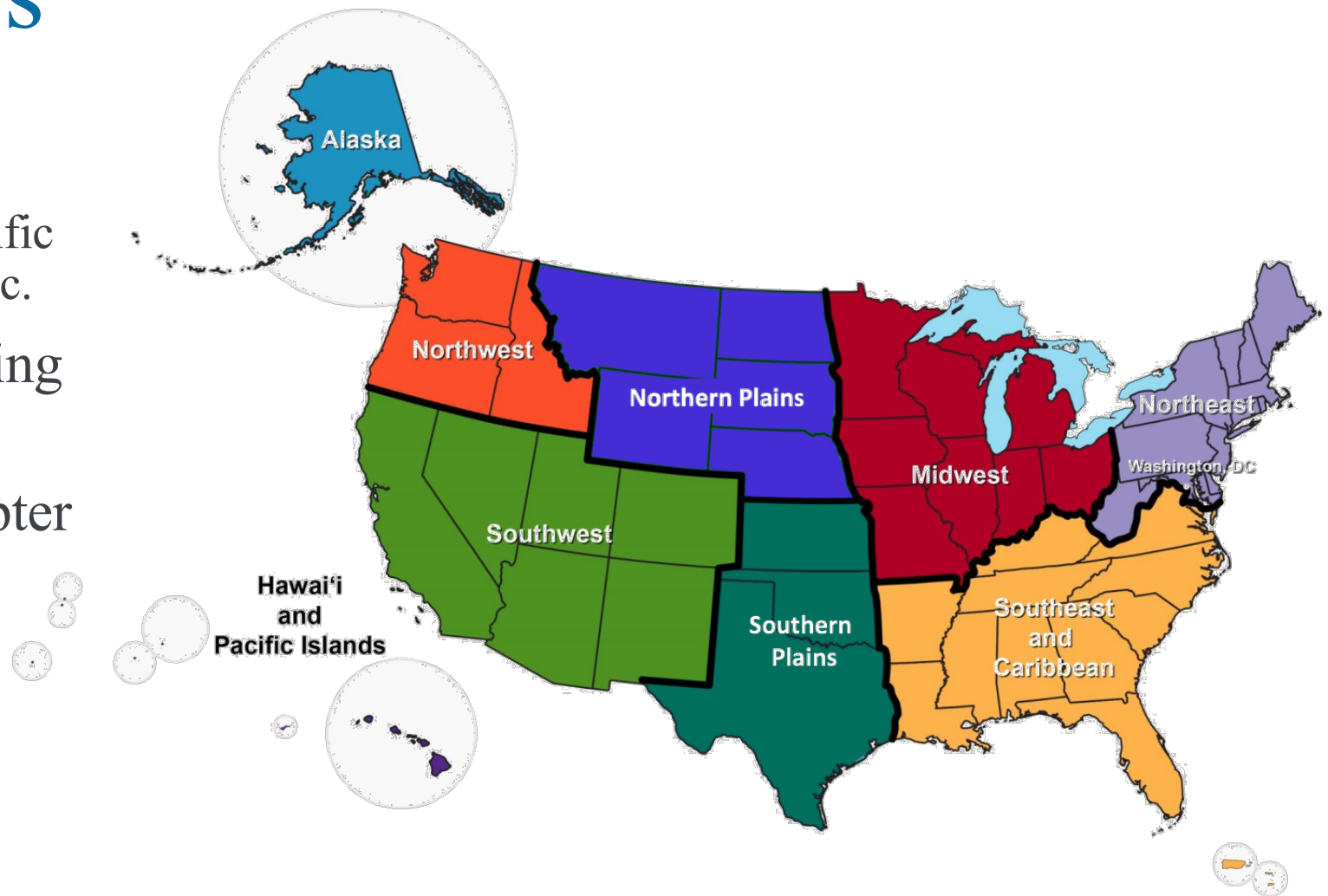
Sectoral (and Response) Chapters



- Short National Overviews
 - ~6 pages, covering issues of national importance
 - Can link back to region-specific issues/examples
- Overseen by Federal CLA
- Led by one or more agencies
 - Agencies have flexibility in their development of the report (consistent with FACA, of course)
 - Non-fed participation is encouraged
- We're in discussions re: response chapters, which will likely be longer

Regional Chapters

- The “main course” of NCA4
 - ~20 pages/region, with region-specific sectoral focus areas, case studies, etc.
- Overseen by a Federal Coordinating Lead Author (CLA)
- Driven by non-fed Regional Chapter Leads



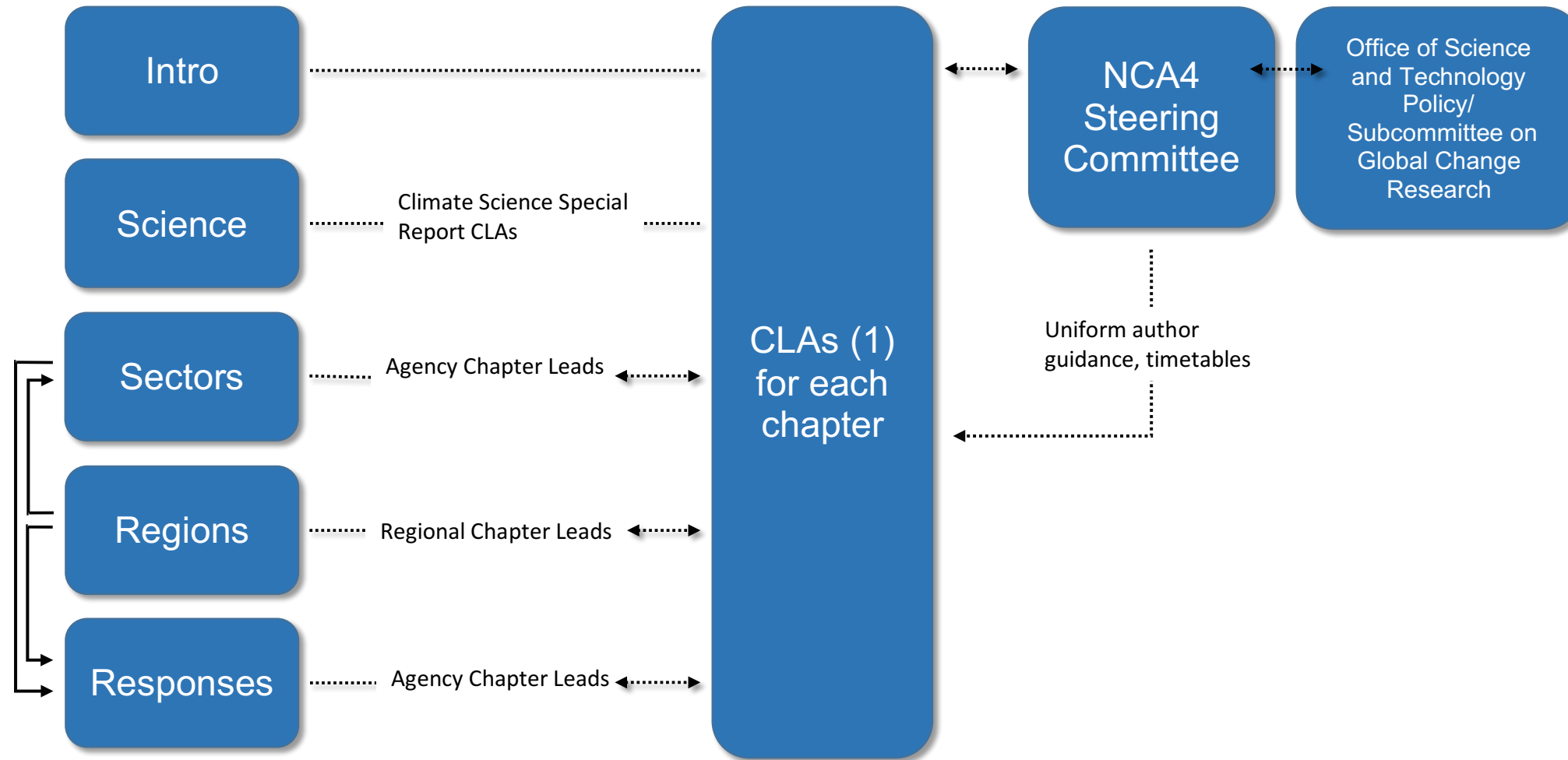
Regional Chapter Outline

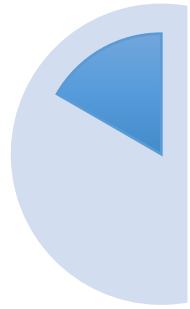
- Key Findings
 - With Traceable Accounts
- Background and State of the Science
- Observed Risks, Impacts, and Potential Benefits
- Projected Risks, Impacts, and Potential Benefits
- Emerging Issues
- Research Needs
- References
- Topics to consider/include where appropriate:
 - Case Studies
 - Populations of Concern
 - Urban/Rural Considerations
 - Decision Support
 - Social Sciences
 - Economics
 - Quantitative risk metrics
 - Coastal concerns

Regional Chapter Leads (RCLs)

- A single person (**not** a Federal employee) tasked with leading a regional chapter
- Will be able to select and direct regional Chapter Authors
 - Suggestions will be available
- Will work closely with a Federal Coordinating Lead Author
- Must be nominated at contribute.globalchange.gov by September 30th
- Will be selected by the Federal Steering Committee

NCA4 Authorship Model





2016

Sep: Call for Authors

Sep: Regional Informational Webinars

Sep: Fed CLAs Selected

Oct: Regional Chapter Leads Selected, CLA Meeting

Oct-Dec: Author Meetings/Drafting



2017

Jan: Release Chapter Outlines

Jan: Technical Inputs are Due

Jan-Mar: Regional Engagement Workshops

Jan-Jun: Drafting and Internal Reviews

Jul-Dec: Report Aggregation and Reviews



2018

Public and National Academies Reviews and Response

Layout and Production

Release and Engagement



Federal Register Notice

- Call for Authors and Technical Inputs
 - Author nominations open until September 30
 - Regional Chapter Leads must come from call
 - Other nominations will be suggested to chapter leads
 - Technical inputs accepted until January 15
 - For best consideration, submit by November 1
 - **SHARE WIDELY**
- <https://federalregister.gov/a/2016-20982>
 - <http://www.globalchange.gov/notices>
 - <https://contribute.globalchange.gov/>



FEDERAL REGISTER
The Daily Journal of the United States Government

United States Global Change Research Program (USGCRP)

A Notice by the National Oceanic and Atmospheric Administration on 08/31/2016

Technical Inputs

- New in-depth reports are not necessarily required for every chapter so soon after NCA3
- New peer-reviewed literature on topics
 - Publications don't necessarily need to be through the entire review process
- “Gray” literature also accepted and considered

- All referenced literature must meet Information Quality Act standards



Building a network of partners (NCAnet)

- Connecting the NCA to 190+ partner organizations' members and stakeholders
- Building long-term capacity
- Cultivating partnerships
- Monthly conversations
- “Affinity groups” model
- Sharing ideas, wisdom, and best practices
- Translating NCA for a variety of audiences

<http://ncanet.usgcrp.gov>

Questions?

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Connect with us:



@usgcrp



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<http://www.globalchange.gov/notices>

