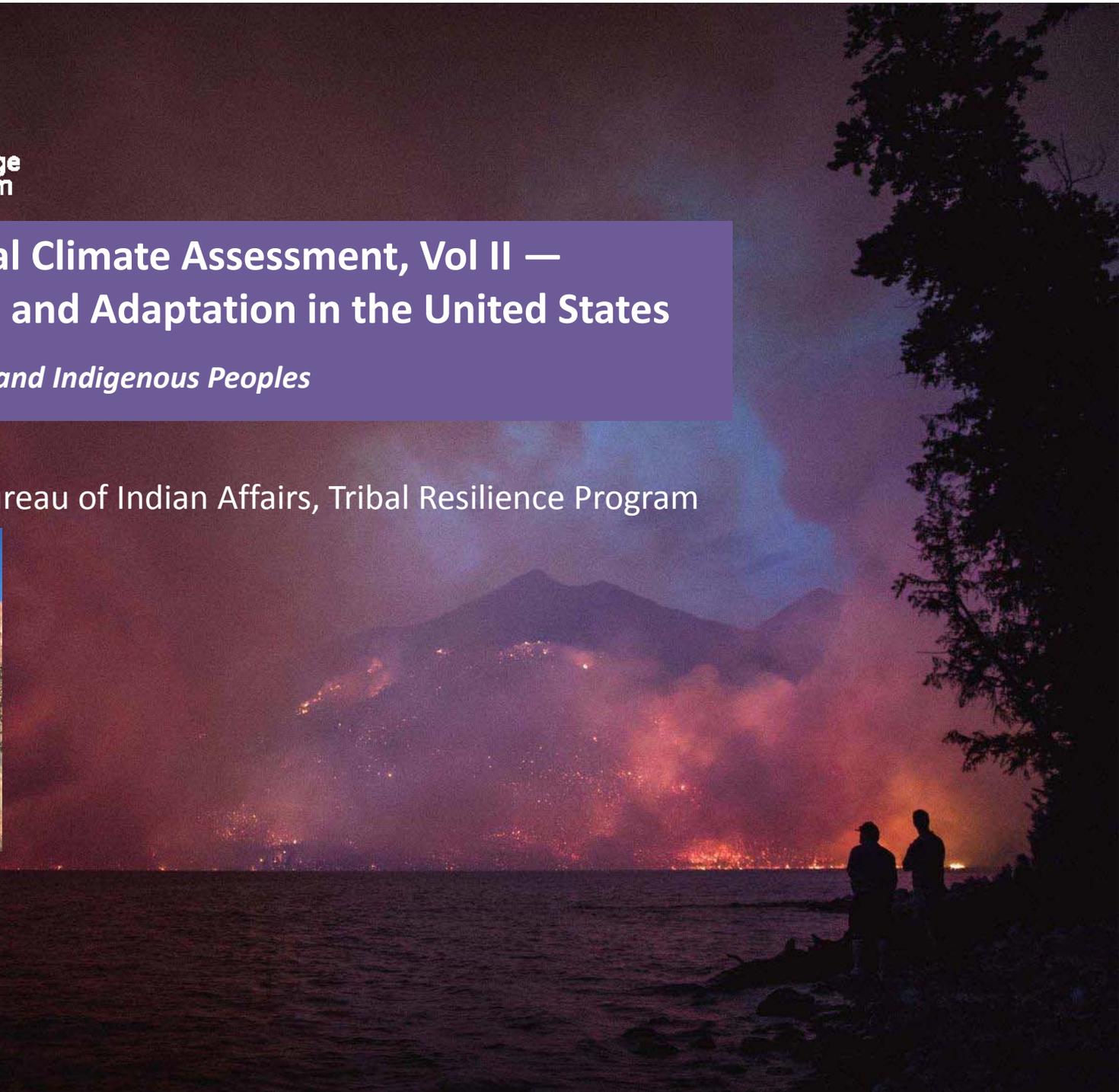




Fourth National Climate Assessment, Vol II — Impacts, Risks, and Adaptation in the United States

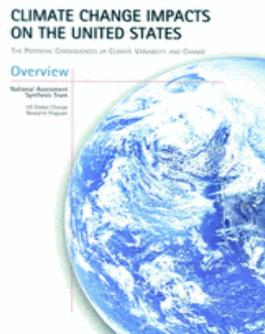
Chapter 15 | Tribes and Indigenous Peoples

Rachael Novak, Bureau of Indian Affairs, Tribal Resilience Program

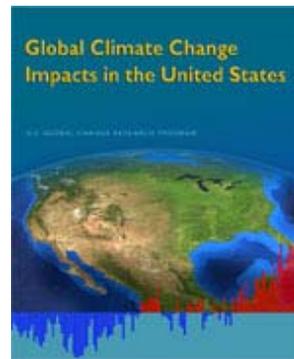


U.S. Global Change Research Program

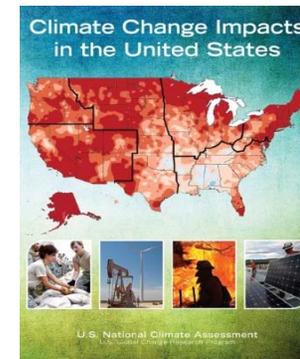
- USGCRP began as a Presidential Initiative in 1989
- Mandated by Congress in the Global Change Research Act of 1990 (P.L. 101-606), “to assist the Nation and the world to **understand, assess, predict, and respond** to human-induced and natural processes of global change”



NCA1

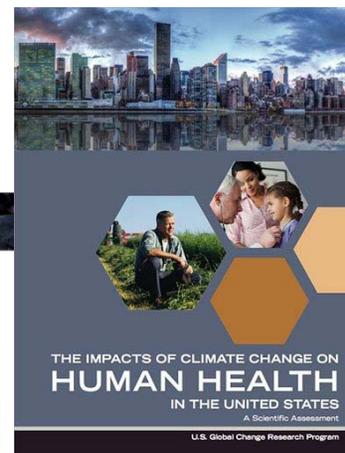
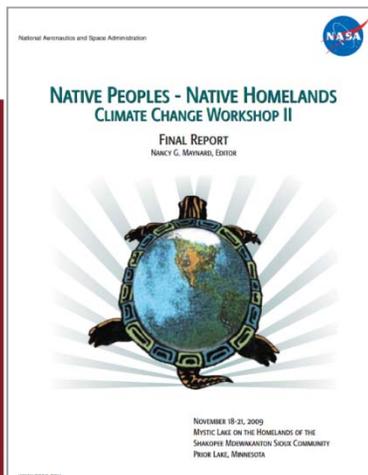
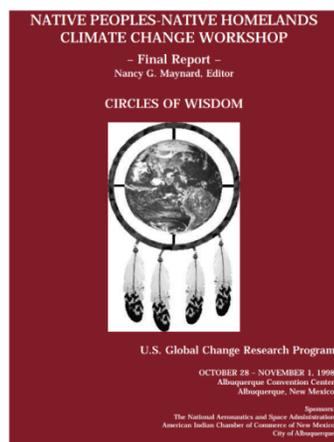
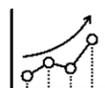


NCA2



NCA3

National Climate Assessment/ USGCRP Products prior to NCA4



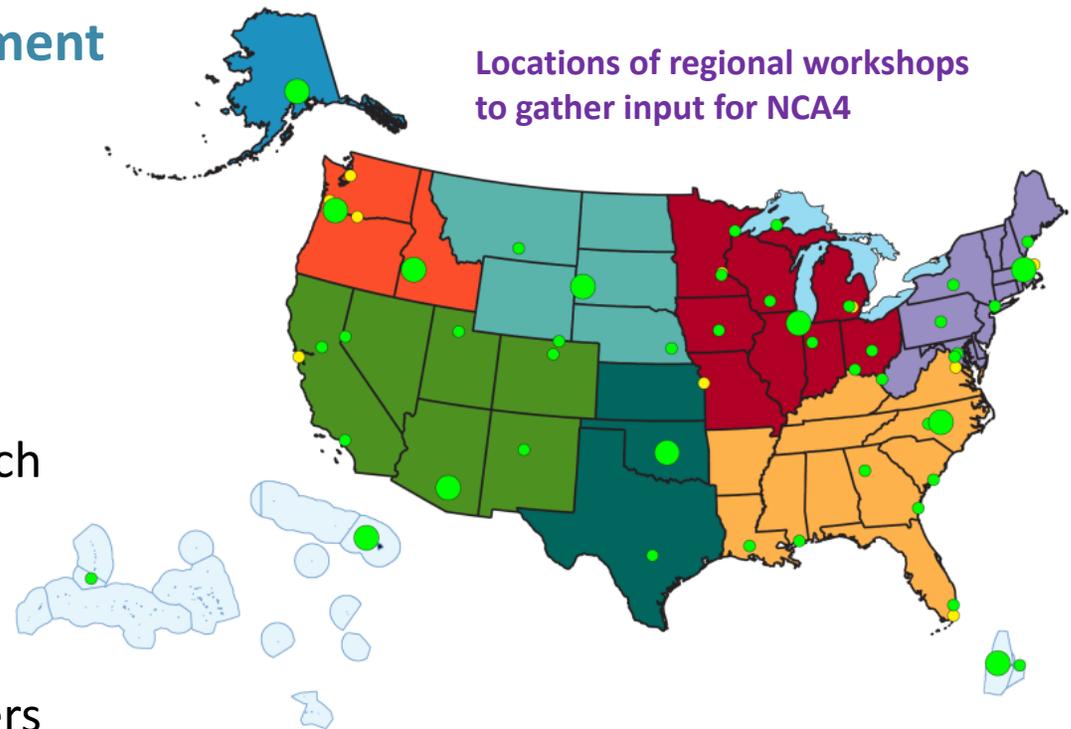
To download PDFs of these documents, please go to:

- <https://downloads.globalchange.gov/nca/nca1/native.pdf>
- <http://neptune.gsfc.nasa.gov/csb/index.php?section=278>
- nca2014.globalchange.gov
- health2016.globalchange.gov

15 NCA4 Development Process

Tribal and Indigenous Engagement

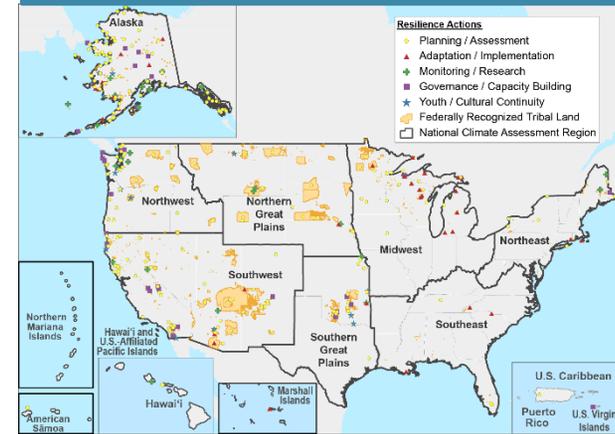
- Mini-grants for community meetings, fall 2016
- Travel support to Regional Engagement Workshops
- Meeting and conference outreach
- Webinars, listserves
- Indigenous perspectives embedded in all regional chapters



Recent Literature on Climate Risks & Impacts



New Database of Tribal Adaptation Actions



Key Messages

1) **Livelihoods and Economies**

2) **Indigenous Values-Based Health**

3) **Adaptation**

- Disaster management
- Displacement
- Community-led relocation

15 State of the Sector

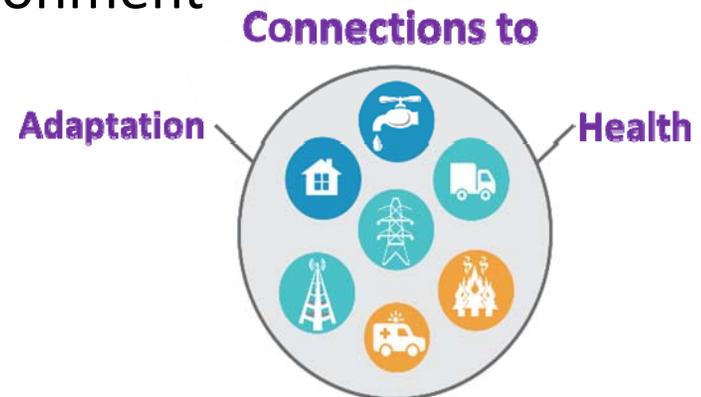
Setting the stage

- Diverse and distinct political and cultural groups and populations.
- May be affected by climate change in ways that are similar to others, but can also be affected uniquely and disproportionately.
- Histories and shared experience engender distinct knowledge about climate change impacts and adaptation strategies.
- Traditional knowledge systems can play a role in advancing understanding of climate change and in developing more comprehensive climate adaptation strategies.

15 Key Message #1

Indigenous Livelihoods and Economies at Risk

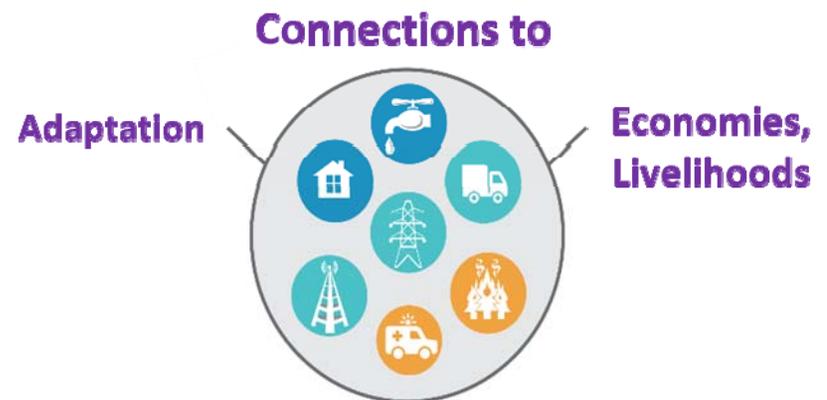
- Commercial and subsistence economies – including agriculture, hunting and gathering, fishing, forestry, energy, recreation, and tourism
- Self-determination and institutional barriers
- Infrastructure and the built environment



15 Key Message #2

Physical, Mental, and Indigenous Values-Based Health at Risk

- Interconnected social and ecological systems
- Cultural heritages and identities
- Physical and mental health



15 Key Message #3

Adaptation, Disaster Management, Displacement, and Community-Led Relocations

- Self-determination and institutional barriers
- Histories and shared experience engender distinct knowledge about climate change impacts and adaptation strategies.
- Traditional knowledge systems can play a role in advancing understanding of climate change and in developing more comprehensive climate adaptation strategies.

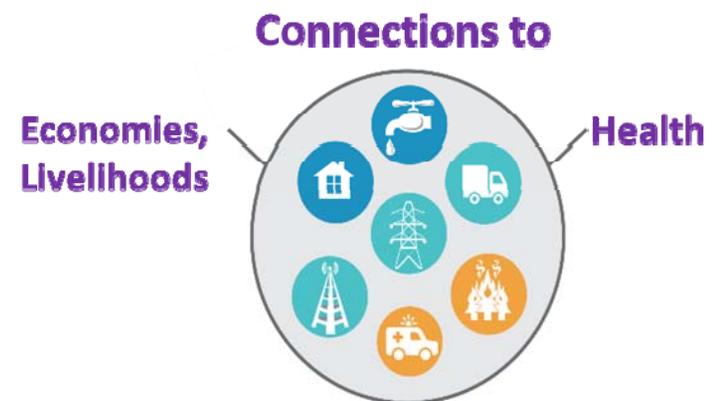




Fig. 15.3: Isle de Jean Charles, LA, and Kivalina, AK

These photos show aerial views of (left) Isle de Jean Charles, Louisiana, and (right) Kivalina, Alaska. As projections of sea level rise and coastal inundation are realized, many impacted communities are confronting political, ecological, and existential questions about how to adapt. Photo credits: (left) *Ronald Stine*; (right) *ShoreZone* ([CC BY 3.0](#)).



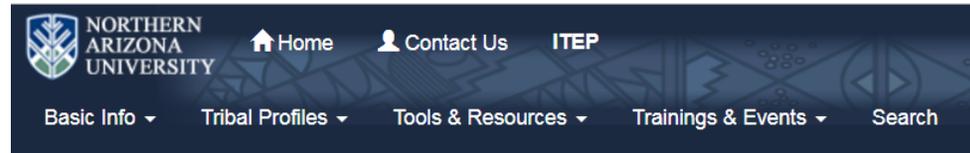
Fig. 15.4: Community Planning

Some tribal communities at risk of displacement from climate change are actively planning whole-community relocation strategies. As part of the resettlement of the tribal community of Isle de Jean Charles, residents are working with the Lowlander Center (a local, nongovernmental organization), the State of Louisiana, and others to finalize a plan that reflects the physical, sociocultural, and economic needs of the community. *Photo credit: Louisiana Office of Community Development.*

Indigenous Peoples Terminology for NCA4

The authors contributing to NCA4 content relating to Tribes and Indigenous Peoples and developed a glossary of terms to maintain consistency across the NCA4 and explain usage. Not definitive or exhaustive

Find more on the ITEP website:
<http://www7.nau.edu/itep/main/tcc/Mindmap/Reports>



Climate Change Reports and Case Studies

- [Indigenous Peoples Terminology for NCA4](#)

- Indigenous peoples
- Subsistence
- Indigenous Knowledges
- Frontline Communities
- Indian
- Sovereignty
- Tribal Lands
- Ceded Territories
- Self-determination
- Treaty Rights
- Colonialism
- Settler Colonialism
- Federal Indian Trust Responsibility
- Historical Trauma

Indigenous Peoples' Climate Initiatives and Plans

Search the online version of this map by activity type, region, and sector to find more information and links to each project: <https://biamaps.doi.gov/nca/>.



Indigenous Peoples' Climate Initiatives and Plans

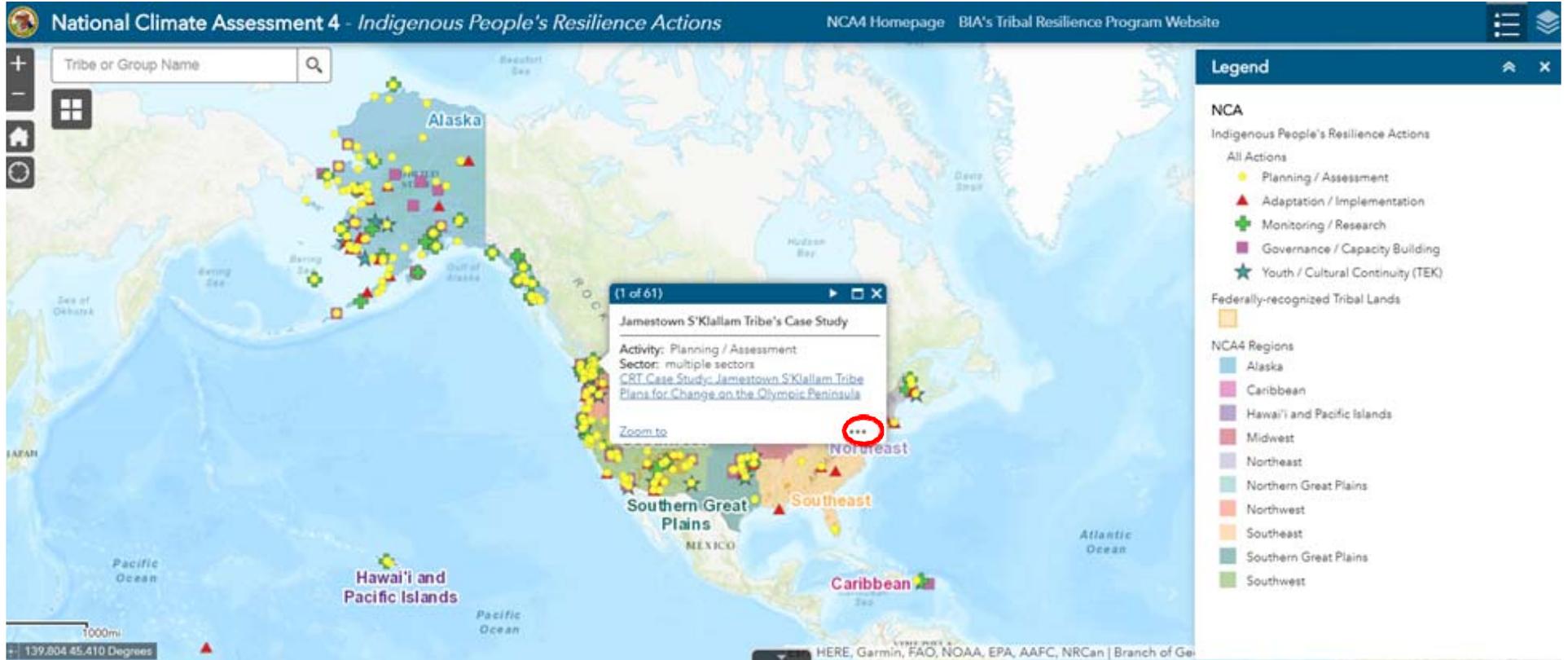


Search by tribe or group name or just click any action symbol on the map

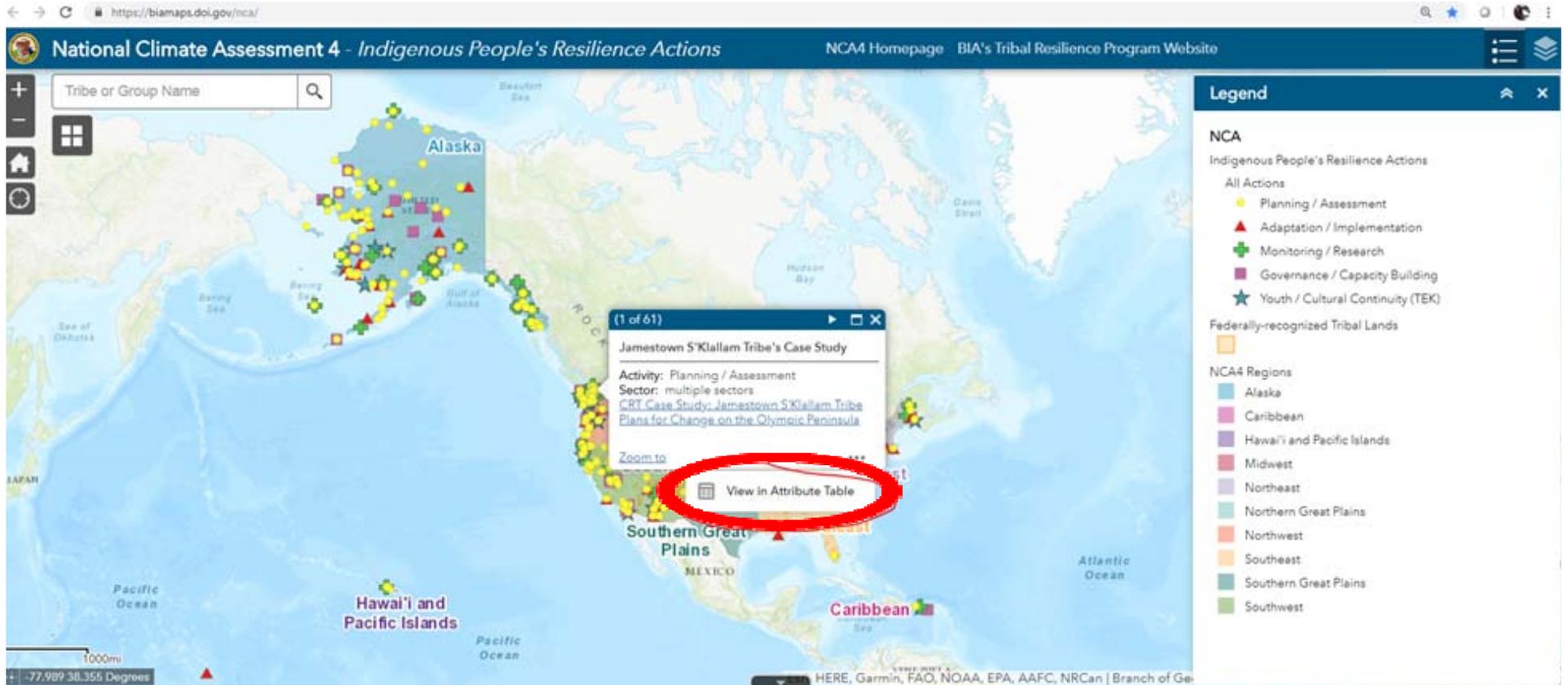
Indigenous Peoples' Climate Initiatives and Plans



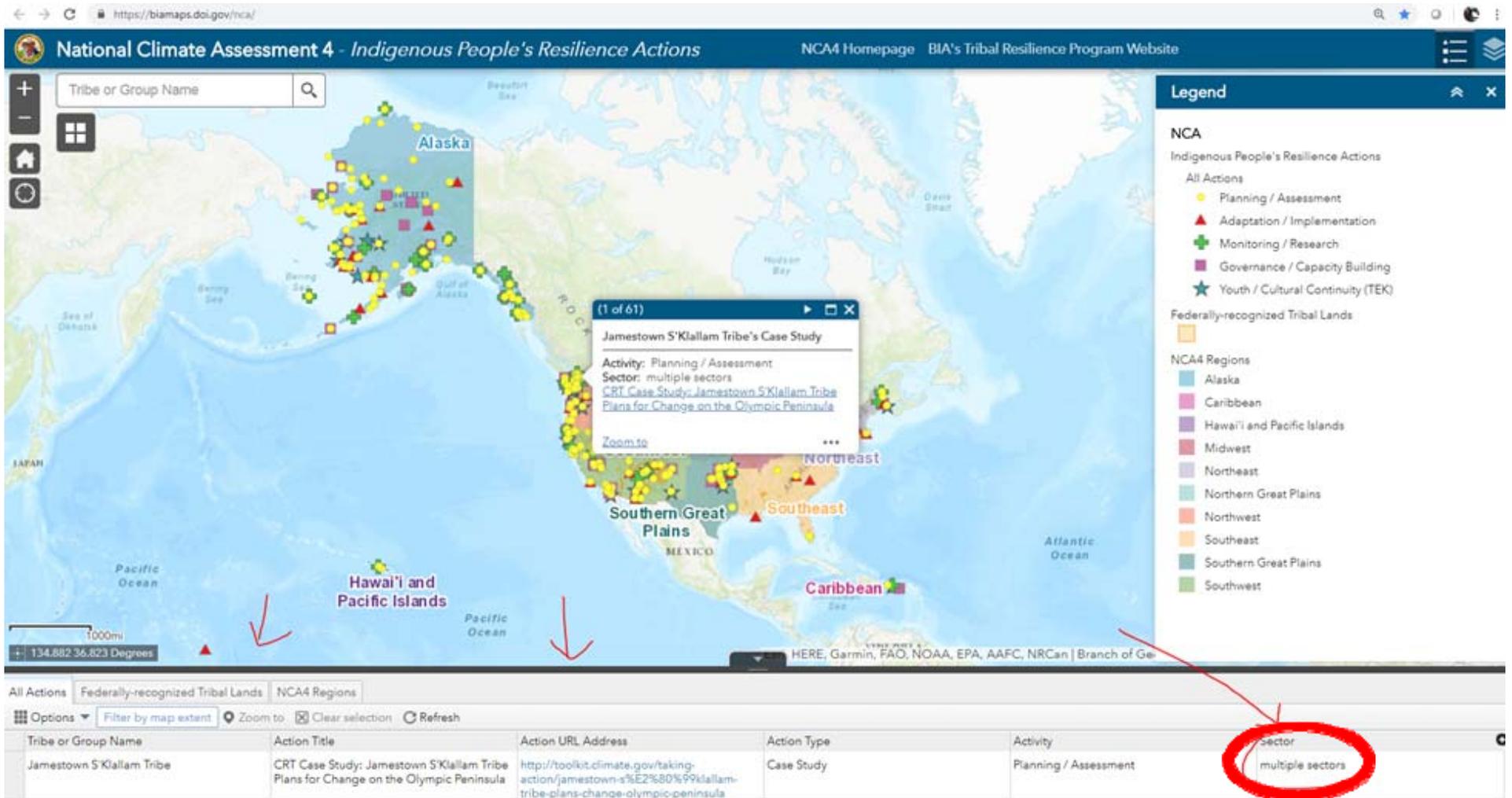
Indigenous Peoples' Climate Initiatives and Plans

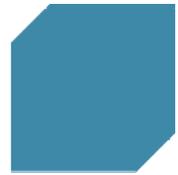


Indigenous Peoples' Climate Initiatives and Plans



Indigenous Peoples' Climate Initiatives and Plans





Reminder of Key Messages

KM1: Indigenous Livelihoods and Economies at Risk

KM2: Risks to Culture, Mental and Physical Health

KM3: Adaptation, Disaster Management,
Displacement, and Community-Led Relocations

15

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Ahe'hee!/THANK YOU!



U.S. Global Change
Research Program

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Read the full chapter

<https://nca2018.globalchange.gov/chapter/tribes>

nca2018.globalchange.gov

Questions?

NC4 Chapter 15: Tribes and Indigenous Peoples

<https://nca2018.globalchange.gov/chapter/15/>

Indigenous Peoples Terminology

<http://www7.nau.edu/itep/main/tcc/Mindmap/Reports>

BIA Tribal Climate Resilience:

<https://www.bia.gov/bia/ots/tribal-resilience-program>

Tribal Resilience Actions Map

<https://biamaps.doi.gov/nca/>

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