

Promoting Coastal Resilience and Adaptation in Coastal Arctic Alaska

A collaborative project sponsored by three Alaska Landscape Conservation Cooperatives and Aleutian Pribilof Islands Association.

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Partnerships

























Aleutian Pribilof Islands Association (APIA)

Our Mission: to provide selfsufficiency an independence of the Unangan by advocacy, training, technical assistance and economic enhancement

Tribes

- Akutan
- Atka
- Belkofski
- False Pass
- King Cove
- Nelson Lagoon
 - Nikolski
 - Pauloff Harbor
- Sand Point
- St George
- St. Paul
- Unalaska
- Unga



What is a Landscape Conservation Cooperative or "LCC"?

- Public-Private partnerships focused on conservation
- Tackling BIG issues like climate change that are too large for any one entity to handle alone
- Largely funded by the U.S. Fish and Wildlife Service
- Over 130 member organizations including agencies, Tribes, NGOs, and universities participating in the 5 LCCs in Alaska

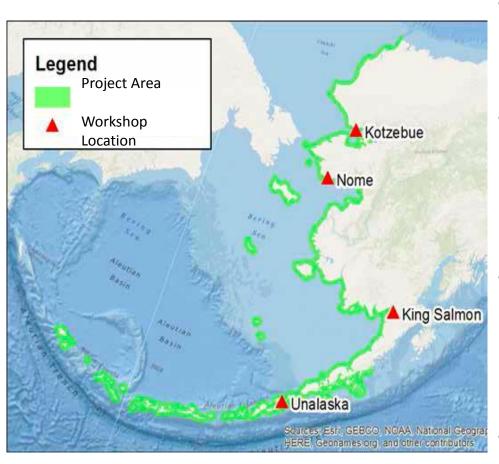




Alaska's 5 LCCs



Workshops: A 2-Way Dialogue



- Bering Strait Region,
 Nome: May 10-11, 2016
- Aleutian Life Forum,
 Unalaska: Aug 13-20,
 2016
- Bristol Bay Region, King Salmon: Sep 21-22, 2016
- Northwest Arctic Region, Kotzebue: Dec 7-8, 2016

Engaging Managers & Stakeholders in Unalaska in 2014...



What is Changing In Alaska?









What do we care about?

- Fish and Commercial Fisheries
- Marine Mammals
- Seabirds
- Community Sustainability
- Subsistence
- Cultural Resources
- The extreme productivity of the region...





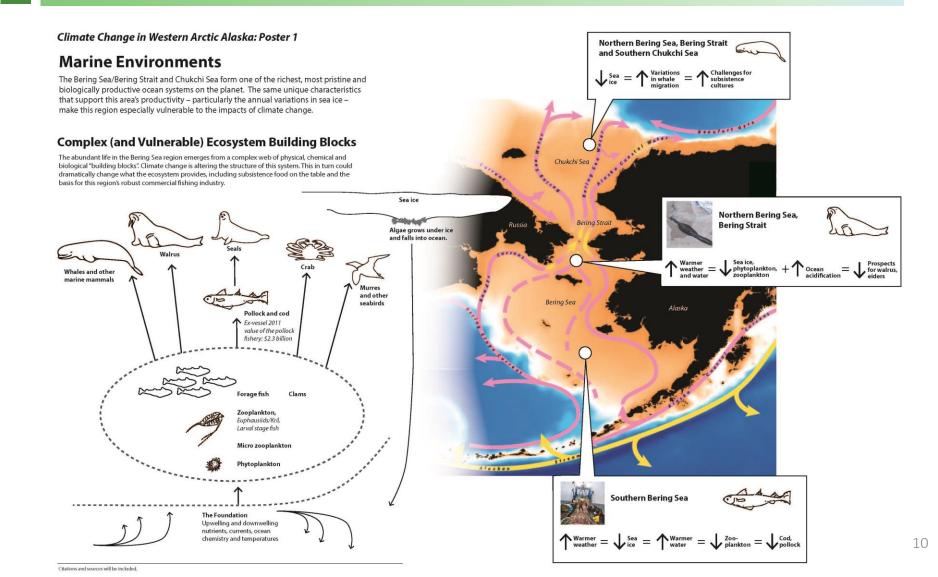








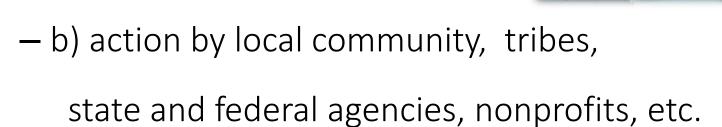
Integrated Impacts of Change



Resilience + Adaptation Strategies

Response is critical - this project aims for more than talk:

- Friday: think about and commit to resilience actions:
 - a) individual action



• Saturday morning: focus on how to work together to make these actions happen.

Overall Project Goal

Provide regional residents and resource managers with the information and tools they need to better respond to coastal climate change challenges, and to support healthy habitats and resilient communities.



Project Objectives

- Establish a network of community and agency professionals working on climate change responses.
- Keep two-way information exchange going regionally and statewide.
- Work together to leverage resources and complete actions.
- Document efforts in a useful, meaningful way; don't just add to the pile!

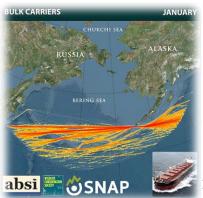


Deliverable: "Toolbox" for Adaptation

- links to information sources on the changes expected
- Posters that illustrate what changes mean in term of impacts to communities and habitats
- Case studies of local and regional action strategies that promote resilience







Additional Capacity...

- The BIA Climate Science Liaison will help integrate:
 - what we learn from this project,
 - similar workshops around the state and
 - current Climate Adaptation Planning efforts.
 - Aiming to create a Climate Adaptation Working Group.
- A Regional Coalition?
 - of tribes, cities, state and federal agencies, etc.
 - Next steps to sustain this coalition?



Promoting Coastal Resilience and Adaptation in the Bering Strait Region



- May 6 & 7th
- Awesome local hosts!
- 70 + participants
- 16 Tribal Communities
- 11 Federal and State Agencies
- Non-governmental organizations

Workshop Approach: what we heard

Climate Drivers of change

 Temp, precip, change in freshwater dynamics, sea ice melt, permafrost thaw, fire

Impacts of climate change

 Erosion, flooding, species shifts, dangerous ice travel

Adaptation actions

 Bering Watch program, Bering Sea Response Teaching Tool, erosion monitoring

See: www.northernlatitudes.org





Bering Strait Workshop continued

- Bering Strait, Aleutians & Pribilofs, Bristol Bay, Northwest Arctic
- Audience of land & resource managers, Tribes, other decision makers
- Reference "Toolbox" finalized in 2017
- Networking, sharing, learning
- Outreach to experts on issues raised



What is changing...

- Midwinter rain melts nearshore ice, making it less stable for travel, and contributing to earlier breakup
- Ice is forming later and has been going out early
- Floods have increased in number and magnitude--"five 100-year events in the last 10 years"



"...for us, it's like someone moved the calendar by a month and nobody told us. We wonder what it must be like for the animals, plants and fish."

Adaptation Ideas from Nome...

- Give communities a stronger voice at the local level and be more flexible about regulations and land exchanges
- Build mold-resistant, energy-neutral houses that can withstand the weather and be moved if necessary
- Participants urged agencies to coordinate efforts, creating network(s) with fewer points of contact
- Centralized communication network that allows sharing of traditional knowledge, local community observations, data collection, and research



"People know how ocean conditions affect the food web; animals have to eat. The animals are adapting and we are having to catch up."

Key Take-homes from Nome...

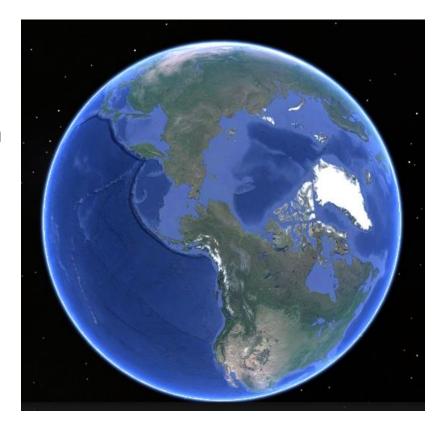
- Sustain health of and powerful link to place, to culture, to tradition.
- Tell our story: expand recognition and respect for validity and value of subsistence and traditional life.
- Manage changing landscapes and resources to keep up with environmental changes.
- Maintain and expand economy; create new job opportunities.
- Expand local power/voice in management and in research with Greater coproduction of knowledge
- Synthesize the outcomes of individual 'scientific' research projects, and between 'science' and local observation – tell the integrated story—the "so what"

Sharing the Conversation Beyond Nome... facebook.com/northlatitudes



Looking at ahead...

- LCCs and project partners will continue this discussion throughout the project and after hub workshops
 - 2016: Alaska Tribal Conference on Environmental Management
 - 2016: BIA Providers' Conference
 - 2017: Alaska Forum on the Environment
- More workshops?
 - e.g., in Utqiagvik (Barrow),
 Bethel



Thank You

Ideas or questions? Contact us.

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