

How to Address Environmental Impacts to Infrastructure:

Introduction

Five Recommendations

Three Examples

Alaska Tribal Conference on Environmental Management
November 20, 2019

Max Neale
Center for Environmentally Threatened Communities



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TRIBAL HEALTH
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Purpose

Share lessons learned, case studies, and best practices for developing and implementing solutions to environmental threats

Agenda

1. Five recommendations + three examples – Max Neale
2. Measuring change – Jaci Overbeck
3. Local leadership and capacity – Malinda Chase
4. BIA Tribal Resilience Program– Rachael Novak
5. Discussion - everyone





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OUR VISION:

Alaska Native people are the healthiest people in the world.

Center for Environmentally Threatened Communities

We support residents of rural Alaskan communities who are experiencing infrastructure impacts due to flooding, erosion, and permafrost degradation

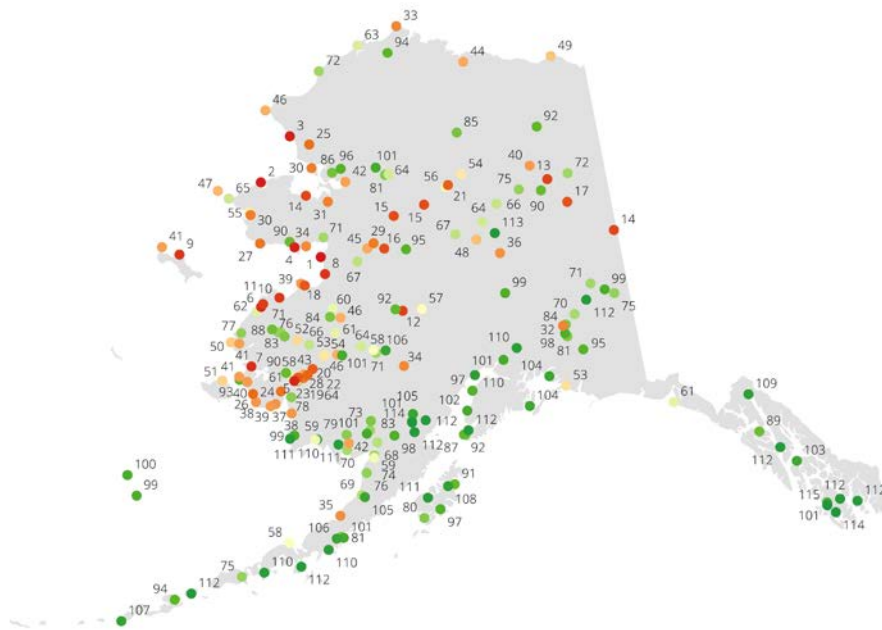


Project development, strategy, and coordination
Grant writing
Technical assistance
Training



- Supported 22 communities since 2017
- 56 awarded projects totaling \$10.5 million
- We focus on supporting the most threatened communities to understand risk and implement solutions

Recommendation 1: Read the Statewide Threat Assessment



Why?

- Chapter 3: Information on erosion, flooding and permafrost
- Chapter 5: Relative level of risk in your community
- Chapter 6: Recommended actions
- Appendix B, C, D: erosion, flood, permafrost assessment scopes of work can be adapted for your community

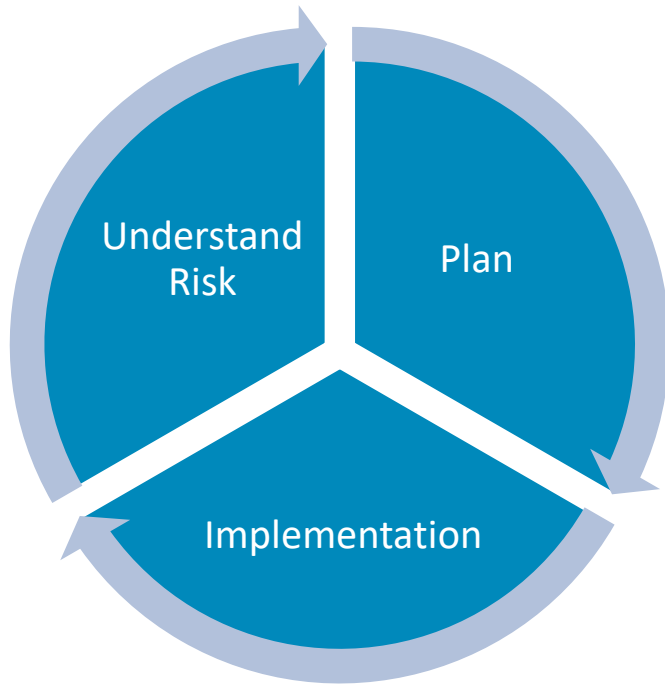
<https://www.denali.gov/wp-content/uploads/2019/11/Statewide-Threat-Assessment-Final-Report-November-2019-1-2.pdf>

Recommendation 2: Call At Least Five People

1. **Lessons learned from other communities:** Call communities in Group 1 of the Statewide Threat Assessment
2. **Statewide resources:** Malinda Chase, Aleutian Pribilof Islands Association / Alaska Climate Science Center: 474-2768
3. **Statewide resources:** Sally Cox, State of Alaska Community Resilience Program: 269-4588
4. **Data collection and monitoring:** Jaci Overbeck, State of Alaska Coastal Hazards Program: 451-5026
5. **Funding:** Max Neale, Alaska Native Tribal Health Consortium: 729-4521



Recommendation 3: Consider a Third-Party Risk Assessment



Why?

- Documents the threats
- Informs solutions
- Supports community planning
- Enables you to seek outside funding for solutions

How?

- See appendix B,C, and D in the Statewide Threat Assessment
- Call Jaci Overbeck at 451-5026



Recommendation 4: Consider These Funding Sources

Data collection, risk assessments, planning:

- BIA Tribal Resilience Program
- FEMA Pre-Disaster Mitigation “Advanced Assistance”
- FEMA Hazard Mitigation Grant Program (HMGP)

Design and construction:

- State of Alaska Community Development Block Grant (CDBG)
- HUD Indian Community Development Block Grant (ICDBG)
- HUD Imminent Threat
- FEMA Pre-Disaster Mitigation “project”
- FEMA Hazard Mitigation Grant Program (HMGP)
- National Fish and Wildlife Foundation’s National Coastal Resilience Fund



Recommendation 5: Subscribe to our Newsletter

no images: [click here](#)

Center for Environmentally Threatened Communities Newsletter

Issue 21, February 2019

Usteq: When Three Threats Become One



A block of ice-rich permafrost collapses along Drew Point, Alaska – a dramatic example of usteq. Source: U.S. Geologic Survey

As part of the Arctic, Alaska is [warming faster than any other state in the country](#) and is already facing serious impacts associated with a changing climate. For many communities in Alaska, increased erosion, flooding, and permafrost degradation threaten infrastructure, livelihoods, and a way of life.



Permafrost, which is found to some extent beneath nearly [80 percent of Alaska](#), provides a stable foundation for infrastructure as long as the temperature of the ground is below freezing. When permafrost thaws, land can subside, causing damage to the infrastructure above. The higher the ice content of the permafrost, the more the ground collapses when the ice melts. What can cause ice to melt especially quickly? Answer: water, the enemy of ice.

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www.anthc.org/cetc

Why?

- Successes and challenges statewide
- Resources
- Trainings
- Events
- Relevant news



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Example 1: Shaktoolik

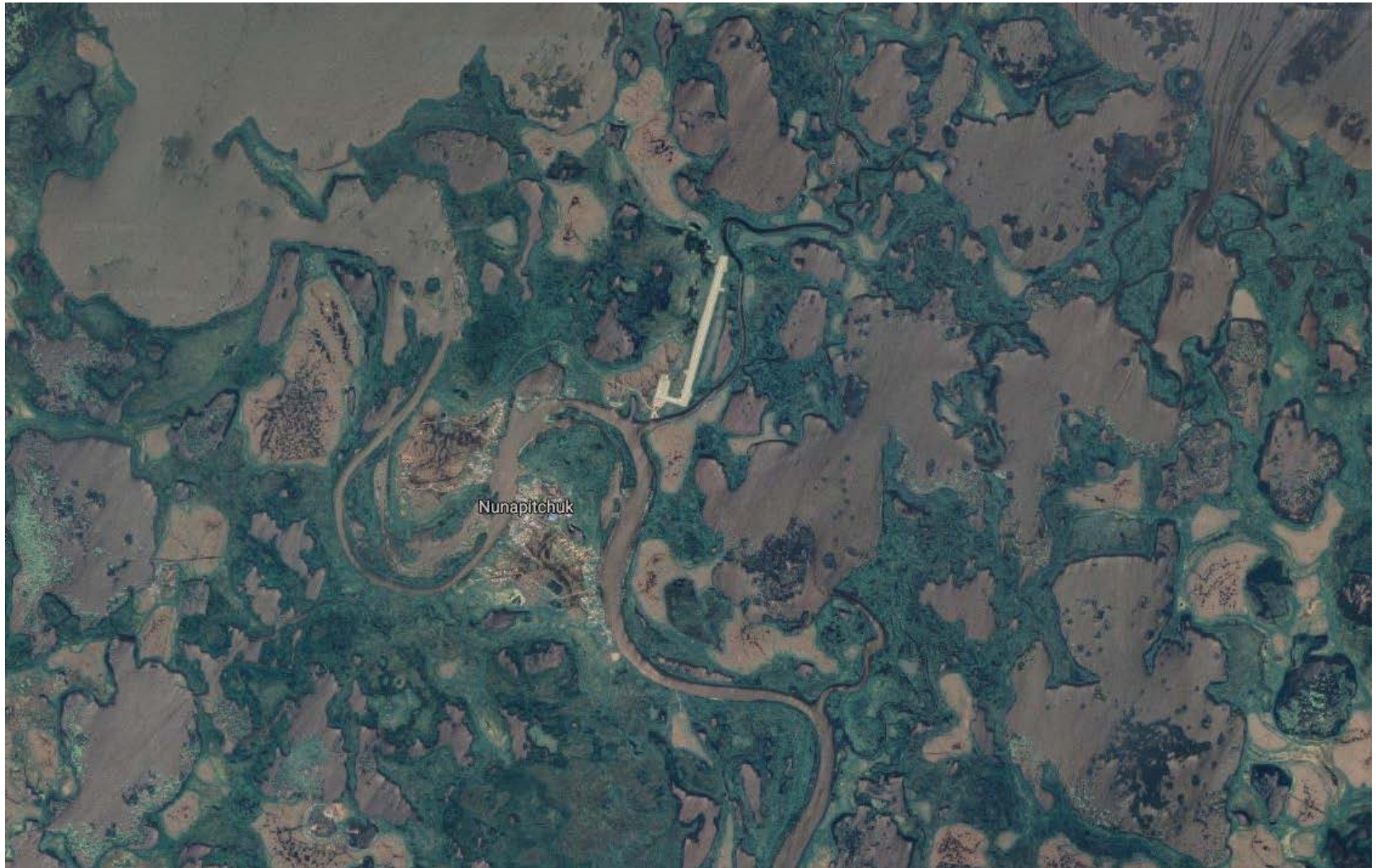


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Example 2: Fort Yukon



Example 3: Nunapitchuk



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Thank you

Reach out any time:
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