



Order of Lightning Talks & Project Reports

1. [Bridging the Atomistic Deformation Mechanism to the Microscopic Adhesive-to-Cohesive Fracture at the Ice-Metal Interfaces](#)
2. [Arctic Urban Risks and Adaptations \(AURA\)](#)
3. [Emergency Response in the Arctic](#)
4. [Pursuing Opportunities for Long-term Arctic Resilience for Infrastructure and Society \(POLARIS\)](#)
5. [ANCHOR - Arctic Network for Coastal Community Hazards, Observations, and Integrated Research](#)
6. [Rain on Snow and Extreme Precipitation Events Across the Arctic and their Impacts on Social-Ecological Systems](#)
7. [Integrating Language Documentation and Computational Tools for Yupik, an Alaska Native Language](#)
8. [Co-production of Shorefast Ice Knowledge in Uummannaq Bay, Greenland](#)
9. [Sustainably Navigating Arctic Pollution - Through Engaging Communities \(SNAP-TEC\)](#)
10. [Peat Expansion in Arctic Tundra - Pattern, Process, and the Implication for the Carbon Cycle \(TundraPEAT\)](#)
11. Dynamic Vehicle Terrain Modeling and Control of Lightweight Ground Robots in Snow and Sand (project report only)
12. [Navigating Disturbance Regimes in the New Arctic](#)
13. [Maritime Transportation in a Changing Arctic: Navigating Climate and Sea Ice Uncertainties](#)
14. [Developing Arctic Village Resilience to Future Water Cycle, River System, and Coastal Change](#)
15. [Preparing for a Northwest Passage: A Workshop on the Role of New England in Navigating the New Arctic](#)



16. [Unangam Ulaa Project: Culturally-informed Adaptation of the Ancient Aleutian Semi-subterranean Dwelling for Sustainable and Resilient Arctic Housing](#)
17. [The Integrated Characterization of Clouds, Energy, Atmospheric state, and Precipitation at Summit, Aerosol-Cloud Experiment \(ICECAPS-ACE\)](#)
18. [Closing the Water Vapor Exchange Budget Between the Ice Sheets and Free Atmosphere](#)
19. [Interactions of Environmental and Land Surface Change, Animals, Infrastructure, and Peoples of the Arctic](#)
20. [Modeling Risk from Black Carbon in a Coupled Natural-Human System at the Arctic Ice Edge](#)
21. [Planning for Climate Resiliency Amid Changing Culture, Technology, Economics, and Governance](#)
22. [Innovations in Energy Technologies and Empowerment in Arctic Fishing Communities](#)
23. [Responding to the Housing Crisis in the Arctic: A Transdisciplinary Approach Across Physical, Natural, and Social Systems](#)
24. [Indigenous Foods Knowledges Network](#)
25. [Advanced Technology for Persistent, Long-Range, Autonomous Under-Ice Observations of Arctic Change](#)
26. [Interactions of the Microbial Iron and Methane Cycles in the Tundra Ecosystem](#)
27. [The Climate Impacts on Alaskan and Yukon Rivers, Fish, and Communities as Told Through Co-produced Scenarios](#)
28. Atautchikkun Ilitchisukluta (Coming Together to Learn): Co-producing Knowledge Across the Northwest Passage (project report only)
29. [Origin and Fate of Harmful Algal Blooms in the Warming Chukchi Sea](#)
30. [The Permafrost Discovery Gateway: Navigating the New Arctic Tundra Through Big Data, Artificial Intelligence, and Cyberinfrastructure](#)



The following projects have publicly available lightning talks but not project reports:

- [Permafrost Coastal Erosion & Its Socioecological Impacts in the Arctic Research Coordination Network](#)
- [Resilience and Adaptation to the Effects of Permafrost Degradation Induced Coastal Erosion](#)