

ARMNET CAN HELP RISK REDUCTIONS

Arctic Risk Management (ARMNet) Network aims to link Practitioners and Researchers across the Arctic Regions to improve Risk, Emergency and Disaster Preparedness and Mitigation through comparative analysis and applied research.



Arctic Risk Management Network

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What is ARMNet?



**Applied Research, Education, and
Public Outreach : Transdisciplinary
Approach**



Arctic Risk Management Model (ARMNet)

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Aims and Origin

The Arctic Risk Management Network (ARMNet) is a transdisciplinary hub designed to encourage and facilitate greater cooperation, communication and exchange among EM practitioners, volunteer Responders, agencies, and researchers actively engaged in the study, management and mitigation of risks, emergencies, and disasters in small, remote communities throughout the circumpolar

Arctic. ARMNet aims to support and assist community EM managers, decision-makers, and responders, and encourage greater interoperability in the mitigation and response to local incidents and disasters through the sharing of:

- new and applied research
- best practices and lessons learned
- greater interoperability
 - case studies and forums in an interactive website
 - presentations, webinars, and meetings
 - newsletters and videos

Since IPY 2007, Applied Research in Environmental Sciences Nonprofit, Inc. (ARIES) has worked with the North Slope Borough Emergency Management (NSB EMO) and other NSB community organizations to improve risk reduction capability in communities in Alaska. The idea of an Arctic Risk Management Network (ARMNET) emerged from this work as an ARIES initiative in partnership with the NSB EMO ARIES joined forces with the co-Chair of Canadian Munk-Gordon Arctic Security Program's Emergency Management Pillar in Canada to expand and promote the concept of a bilateral Arctic EM Network, based on the assumption that Arctic communities across the North American Arctic had more in common with each other than with their southern counterparts. In 2017 an international specialist in Arctic data management and a co-lead on the IASC Arctic Data Committee (<https://arcticdc.org/>), joined the team, bringing greater capacity to develop information networks that are user friendly and timely to access hazard research.

In 2020, the Arctic Athabaskan Council (AAC), a Permanent Participant of the Arctic Council representing First Nations and Tribal communities throughout Northern Canada and Alaska, partnered in the project and in 2021, sponsored the ARMNet project at the Emergency Prevention, Preparedness, and Response (EPPR) Working Group of the Arctic Council, where it was unanimously accepted as an EPPR Project by all states and Permanent Participants, taking the scope of the network circumpolar.

Partners

The ARMNET community seeks, and is open to, further collaboration with Arctic Emergency Management Offices (EMOs), local Responders and hazard monitors, Arctic academics and researchers, Arctic-based corporations, military, Coast Guard, northern police forces, Search and Rescue (SAR) associations, and remote communities of the Arctic.

Inter-operable Communications



Collaboration among EMO, SAR, hazard researchers, and community groups will be facilitated through improved networking by an interactive website, joint trainings, conference workshops, teleconferences, roundtables, and virtual communications to increase inter-operability and communication redundancy across far North regions and local communities.

Disaster Risk Reduction Information

Most importantly, ARMNet strives to provide a user-friendly information network related to risk reduction of the frequent hazards of Arctic climate and geography in North America, including new and emerging challenges arising from:

- climate change,
- increased maritime polar traffic
- expanding economic development in the region.

Sponsors and Funding

ARMNet is an outcome of the Arctic Observing Network (AON) for Long Term Observations, Governance, and Management Discussions, www.arcus.org/searchprogram. The AON goals continue with the Regional Cooperation, Operability and Organizational Partnerships (RECOOP), and coastal erosion research (led by the North Slope Borough Emergency Management Office (NSB EMO) with collaboration from Applied Research in Environmental Sciences). Presentations in support of the development of ARMNet at three Canadian conferences (SARScene, Canadian Risk and Hazards Network, and ArcticNet) in the fall of 2015 were made possible through funding from the US Embassy in Ottawa and administrative support from the Canadian Risk and Hazards Network ([CHRNET](#)). From 2018-2020, [Alaska Sea Grant](#) funding continued the coastal erosion research as an ARMNet case study of collaboration among the NSB EMO, hazard researchers, and community-based monitors. This ARMNet collaboration continues from 2019 to 2024 with a National Science Foundation grant in the Navigating the New Arctic program about [Arctic Impacts and Reverberations of the Global Maritime Trade Routes](#). This funding allows expansion of ARMNet with international partners for a scoping study, an interactive website, and risk assessment workshops among small and remote Arctic communities. Current financial support from the Arctic Athabaskan Council and in-kind support from the Canadian Coast Guard and Benoit Associates, Inc. will assist in furthering the Network's objectives.

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