



ARCTIC SCIENCE PARTNERSHIP

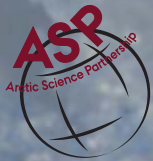
A leading scientific
collaboration between
Arctic research institutions

Arctic Science Partnership was launched in Nuuk, Greenland in July of 2012, where the presidents of the Greenland Institute of Natural Resources, University of Manitoba, and Aarhus University signed a Memorandum of Understanding to formalize the partnership and strengthen international research in the Arctic region.

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Joint research at the top of the world

The Arctic is under pressure. Climate change imposes critical challenges to its vulnerable ecosystems, communities and indigenous populations.

To study the full impact of the changes in the Arctic and the mechanisms behind these changes, the Arctic Science Partnership (ASP) was established in 2012 to facilitate and integrate active scientific and academic cooperation between leading research institutions carrying out Arctic research.

The partnership brings together internationally leading researchers from a wide variety of sciences, including oceanographers, sea ice specialists, geologists, statisticians, biologists and health scientists. This collaboration promotes synergy and continuous exchange of knowledge through the integration of cutting-edge results from both fundamental and applied research, and generation of data from monitoring programs across the Arctic.

Focus areas

Joint research campaigns are the cornerstones of ASP. During field periods, specialists from various disciplines and countries unite to carry out investigations in locations of mutual interest.

The Arctic Science Partnership is a leading consortium on climate, ice, ecosystems and human interactions. Across water, land and atmosphere, ASP investigates:

- Ongoing changes in ice-ocean interactions, snow and ice extent, permafrost thaw and their combined consequences for Arctic ecosystems and the benefits we receive from the systems
- Feedbacks between the Arctic and Earth climate systems
- Proxies for predicting future changes in ocean currents, weather systems and ecosystems
- Impact of climate change on the Arctic population's lifestyle and disease patterns
- Pollutant transport to the Arctic and exposure consequences on ecosystems and humans



International collaboration

Arctic Science Partnership (ASP) encompasses Greenland Institute of Natural Resources, University of Manitoba, Canada and Aarhus University, Denmark through a Memorandum of Understanding. Each of these institutions brings a number of international partners and associates to this partnership.

Paramount to ASP is a large-scale international and interdisciplinary collaboration with the purpose of ensuring a more coherent scientific effort in the Arctic region.

The ASP partnership fosters a critical exchange of knowledge and provides scientists with a joint logistical platform, drawing on the numerous facilities administered by each institution, including research vessels, field stations and laboratory facilities.

Education and Communication

Education and communication comprise two other focal points among the activities of Arctic Science Partnership.

Academic programs aimed at training the next generation of researchers, are designed to be anchored locally in Greenland, Denmark and Canada, respectively, enabling individual courses to grapple with topics and issues in the immediate surroundings and build local knowledge and expertise. The integration of academic programs is aimed at facilitating student exchanges between institutions and recognition of academic credits across these institutions. This collaboration also aims at creating strong curriculum to support the training of Arctic specialists.

The continuous dissemination of knowledge to the public, with the aim of promoting local ownership and community-level action in the context of irrevocable climate change is another key role for Arctic Science Partnership.