

NWT Cumulative Impact Monitoring Program

NORTH AND SOUTH SLAVE REGION 2017 SUMMARY



To watch and understand the land so it can be used respectfully forever.

2017 NWT CIMP-FUNDED PROJECTS IN THE NORTH AND SOUTH SLAVE REGIONS

NWT CIMP projects in the North and South Slave regions address key regional cumulative impact questions of regulators, governments and communities.

Last year, NWT CIMP provided **\$337,000** to support **13 projects in the North and South Slave regions**, 10 of which overlapped with other regions. Approximately **15% (\$70,000)** of this funding was provided directly to regional and community organizations. This year, five projects will be supported directly in the regions in addition to seven multi-region projects.

HIGHLIGHTED PROJECTS

Barren-ground caribou traditional knowledge mapping and analysis

CIMP171 – YEAR 3 OF 3

LEAD

Johanne Black, Yellowknives Dene First Nation
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PURPOSE

To make previously documented and current traditional knowledge of barren-ground caribou digitally available to community members, decision-makers, regulators and researchers.

WHY?

To capture traditional knowledge that will complement existing scientific data, providing useful information to further understand and protect caribou and their habitat.



A variety of sources of traditional knowledge information needing to be digitized for preservation.

Government of
Northwest Territories



Using the past to inform the future:
A paleoecological perspective of the impacts of
drought and fire on lakes and forests

CIMP174 – YEAR 3 OF 4

LEAD
Mike Pisaric, Brock University
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PURPOSE
To examine the cumulative impacts of two important agents of disturbance, drought and forest fires, and their effects on forests and aquatic systems in the southern NWT.

WHY?
To provide information to assist decision-makers in understanding and identifying management issues related to forest fire and drought in the NWT.

Integrated eco-monitoring and assessment of cumulative
impacts on Great Slave Lake fisheries ecosystems

CIMP132 – YEAR 7 OF 9

LEAD
Xinhua Zhu, Department of Fisheries and Oceans Canada
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PURPOSE
To establish a baseline for harvestable fish populations and biological characteristics, and to enhance community-based monitoring capacity.

WHY?
To provide baseline information on fish species that could lead to development of a standardized monitoring tool to detect changes in northern lake ecosystems.

The influence of forest fires on metal deposition to lakes and
peatlands in the North Slave region, NWT

CIMP177 – YEAR 2 OF 2

LEAD
John Chetelat, Environment and Climate Change Canada
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PURPOSE
To test the relationship between forest fire events and metal accumulation in lakes and peatlands of the North Slave region.

WHY?
To generate important new information on local and regional impacts of forest fires on metal deposition to lakes and peatlands to help with better decision-making.

The Northwest Territories Cumulative Impact Monitoring Program (NWT CIMP) provides important environmental information about cumulative impacts and environmental trends to decision-makers and communities. Cumulative impact monitoring is a requirement of settled land claim agreements in the NWT, and the *Mackenzie Valley Resource Management Act*.

Cumulative impacts are changes in the environment caused by human activities and natural processes that accumulate over space and time. It is important to understand both the environmental impacts of individual developments and the cumulative impacts of many developments in a region.



Peatland in North Slave region.

CONTACT INFORMATION

NWT CIMP is guided by a Steering Committee of Aboriginal, territorial and federal government representatives.

NORTH AND SOUTH SLAVE REGIONS REPRESENTATIVES
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FOR MORE PROJECT RESULTS, VISIT
nwtcimp.ca or search for the CIMP project number at nwtdiscoveryportal.enr.gov.ca

FOR GENERAL PROGRAM INQUIRIES, CONTACT
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