

Invitation to the Arctic Council Wildland Fire Sharing Circle

Wildfires are increasing in frequency, severity, and area across the Arctic, bringing challenges as well as opportunities and requiring greater collaboration, knowledge sharing, and partnership.

Gwich'in Council International is leading two projects on Arctic wildland fires in EPPR and CAFF. Several other Arctic Council entities (AMAP, ACAP and EGBCM) as well as some non-Arctic Council groups also have activities that relate to wildland fires in the Arctic.

We are therefore organising a Sharing Circle scheduled for **17-18 November 2021** where projects and people can learn about others' work in this area.

Sessions will be held on Zoom and begin at 0600AKST/1000EST/1500GMT/1600CET/1700 Helsinki/1800 Moscow/2200 Krasnoyarsk each day.

Find attached the following documents:

- A concept note providing an overview of the Sharing Circle and desired outcomes; and
- An overview of wildland fire activities across the Arctic Council

Please share this invitation with the relevant people in your organisations and [register here by November 5](#). After Nov 5 a calendar invite with call-in details and the Sharing Circle agenda will be circulated to all participants.

Those people who are engaged in Arctic wildland fire initiatives are asked to [please submit here short details on the project and/or data platform they are representing](#). We will compile all submissions to share after the event.

Please let us know if you have any questions.

On behalf of the Event Organizing Committee:

- Edward Alexander and Devlin Fernandes, Gwich'in Council International
- Mike Young, USA
- Mia Rönkä and Tom Barry, CAFF
- Nina Ågren, EPPR
- Jessica McCarty, Miami University

Devlin Fernandes (she/her)
Executive Director, Gwich'in Council International
(+1) 778-884-0152
Yellowknife, Canada

Arctic Wildland Fire Sharing Circle



17-18 Nov 2021 on Zoom

Wildfires are increasing in frequency, severity, and area across the Arctic, bringing challenges as well as opportunities and requiring greater collaboration, knowledge sharing, and partnership. Gwich'in Council International (GCI) is leading two projects to advance work on wildland fires at the Arctic Council, in the CAFF and EPPR Arctic Council Working Groups. There are other Arctic Council Working Groups and Expert Groups with projects or activities related to fire in the Arctic, as well as non-Arctic Council projects focusing on fire with an Arctic scope.

EPPR and CAFF are organising a Sharing Circle scheduled for 17-18 November 2021 where projects and people can learn about work in progress. Sessions will be held on Zoom and begin at 0600AKST/1000EST/1500GMT/1600CET/1700 Helsinki/1800 Moscow/2200 Krasnoyarsk each day.

This document provides an overview of the event agenda, and registration instructions.

Concept

- Organize a virtual event to bring together projects and people related to Arctic wildland fires, consisting of two approximately 4-hour sessions spread over two days, with optional breakout sessions at the end of each day.
- Enable projects and organizations to share, through presentations and written materials, highlights of their work, driving questions, and opportunities for involvement.
- Enable people to learn about different projects to assess their interest and capacity to participate, identify synergies and potential alignment of priorities and/or activities, and avoid duplication of work.

Drivers

- Multiple existing projects led by Arctic Council working groups, with ongoing direction from the SAOs to work collaboratively
- Desire to engage Permanent Participants and incorporate Indigenous Knowledge in projects
- Awareness of non-Arctic Council-led projects related to fires in the Arctic, with overlapping involvement on project Steering Committees, and requests from some of these projects for involvement from Arctic States and Permanent Participants
- Limited capacity for everyone to participate in everything
- Desire to appropriately align resources and expertise with project goals

Audience

We anticipate a diverse audience, from those with little-to-no expertise in fires who are interested in learning about what is going on, to those with much expertise interested in sharing and understanding how their knowledge/work fits with existing/planned activities. We welcome:

- Arctic Council States, Permanent Participants, Working Groups and Observers
- Project Leads and Committee Members
- Organizations and institutions holding knowledge relevant to understanding fire

Desired outcomes

- Increase awareness and understanding of the ongoing work related to Arctic wildland fires
- Enable networking between projects where there are similar or overlapping objectives
- Identify if and how others can be involved and contribute to each other's work
- Produce a report containing a:
 - Summary of the workshop discussions (key points and suggestions); and
 - A summary of projects, including those presented at the meeting and others submitted to be shared

Registration

Please [register here](#) for the event by 5 Nov 2021

Translation

There will be translation for English-Russian for the main sessions (not breakouts) Nov 17 and 18. It is to be determined whether the workshop report will be translated.

Submissions

- We ask people participating on behalf of Arctic wildland fire initiatives to [please submit here](#) [short](#) details on the project and/or data platform they are representing
- We will compile all submissions to share after the event, and will follow up with submissions invited to present

Event Organizing Committee

- Edward Alexander and Devlin Fernandes, Gwich'in Council International
- Mike Young, USA
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Links for more info

- Gwich'in Council International: <https://gwichincouncil.com/wildland-fire>
- CAFF: <https://www.caff.is/arcticfire>
- EPPR: <https://eppr.org/projects/circumpolar-wildland-fire-project/>

Arctic Council Wildland Fire Projects *18/October/2021*

Wildland fires are increasing in frequency, severity, and area across the Arctic, bringing challenges as well as opportunities and requiring greater collaboration, knowledge sharing, and partnership. GCI is leading two projects in CAFF and EPPR to advance work on wildland fires at the Arctic Council. Projects usually have a Steering Committee, objectives, and intended uses, summarized below. Projects are connected through their overarching goal of addressing wildland fires in the Arctic with a circumpolar focus. Knowledge sharing is a key component of both projects, and a workshop is planned to bring people working in ecology, management, and response together and review draft project deliverables.

	CAFF	EPPR	AMAP ¹	ACAP
Sphere of impact	Management & mitigation of impacts Sharing knowledge systems	Operational readiness and response Economic development	Assessment of climate and air quality impacts of wildfires as a basis for science-based policy development .	Support efforts to improve air quality and minimize climate change and its impacts.
Objective(s)	Understand extent and impacts of wildland fires; Understand good practices for wildland fire management (to achieve social, ecological, cultural goals) from Western science and IK perspectives. Share practices and ongoing work and learnings.	Document and understand good practices for international cooperation agreements, targeting operational activities. Improve coordinated response by Arctic States and Permanent Participants and promote international cooperation. Create template for discussion of MOU for Arctic fire collaboration (response, training).	Estimating emissions associated with wildfires; developing scenarios for wildfire emissions; analysing the causes of wildfires; assessing climate change impacts on wildfires and associated climate feedbacks; Assessing societal impacts; smoke modelling in connection with air quality/human health impacts; Improvement of observing systems.	Understand the impacts of fire management practices on emissions of black carbon and other pollutants from wildland fire and share best practices.

¹ The content of the table reflecting AMAPs work is based on activities currently under consideration; decisions on precise specifications of eventual work have yet to be made.

Activities	<p>Map the extent and distribution of fires across the Arctic (look at data across jurisdictions and map key elements), currently and in the past.</p> <p>Review practices from states/different jurisdictions to compile how they manage fires.</p> <p>Invite PPs to document use of fire for management and impacts.</p> <p>Assess who is doing what work/projects around fire in the Arctic.</p> <p>Joint with EPPR</p> <p>Workshop to bring together fire ecologists, knowledge holders, and operational staff to share and discuss project work and deliverables across and within working groups.</p>	<p>Compile and assess instruments (agreements, MOUs, policies) that enable cross-border responses.</p> <p>Interview users, designers, and policy makers for what elements worked, recommendations for change, and what was most useful.</p> <p>Draft a template to include necessary elements for consideration when discussing cross-border fire response.</p> <p>Joint with CAFF</p> <p>Workshop to bring together fire ecologists, knowledge holders, and operational staff to share and discuss project work and deliverables across and within working groups.</p>	<p>Analysing results of GIS work to map fire occurrence (NB: mapping/GIS work using satellite remote sensing in this connection is already ongoing); GIS-based fire attribution and risk assessment; GIS-based work to identify fuel characteristics and calculate resulting emissions; Modelling of climate and air quality impacts, including smoke modelling.</p>	<p>Compile information on practices for wildland fire management across Arctic States.</p> <p>Assess the impact of various practices on emissions. This would include emissions resulting directly from management practices (for instance from a controlled burn), from wildland fires that occur (or are prevented) in areas where management practices are undertaken, and fires that occur in areas where no management is undertaken.</p> <p>This information could be used to help improve air pollution and GHG inventories and modelling and could also help to determine best practices for limiting emissions from wildland fires.</p>
Deliverables	<p>Map(s) of the extent and distribution of fires across the Arctic.</p> <p>Compilation of guidelines and best practices for Arctic fire</p>	<p>Compendium and assessment of instruments and best practices.</p> <p>Template with clauses relevant for wildfire response (including but not limited to operational and training response).</p>	<p>AMAP assessment products; fire mapping and analyses (GIS-based); Emissions models (scenarios); Smoke transport/impacts</p>	<p>Report on how various management practices impact emissions of black carbon and other air pollutants.</p>

	<p>ecology and forest management.</p> <p>Compilation, to be updated annually, of work on Arctic fire ecology and fire-related Indigenous knowledge products.</p>	<p>Summary of how each Arctic state manages operational response and what, if any, interagency/state agreements are in place.</p> <p>Summary of standard practices/training by state.</p>		<p>This report could include recommendations for best practices in fire management to limit air emissions.</p>
Audience	<p>Public –understand how fires impact the Arctic</p> <p>Ecologists – better understanding of management practices and options, including from Indigenous perspectives</p> <p>Policy makers –understand scope of issue and levers of impact</p> <p>Academics –understand current work and gaps</p> <p>PPs –enable knowledge transmission</p>	<p>Policy makers</p> <p>Operational fire managers</p> <p>Government resource managers and planners</p> <p>Local fire crews and communities</p> <p>PPs –enable co-production of knowledge</p>	<p>Scientific community; Policy- and decision-makers</p>	<p>Policy makers – understand how various management practices can be used to limit emissions.</p> <p>Scientific community – improve knowledge and use information on emissions from different management practices to refine and update emissions estimates, climate models, etc.</p> <p>Public – understand how wildfires and their management impact air quality, health, and climate</p>
Priorities	<p>Data compilation and standardization</p> <p>Ecological, management, social, cultural impacts, and knowledge transmission</p>	<p>Understanding context for international cooperation on fire response, and drafting template to advance discussion</p>	<p>Data compilation and analysis, incl. GIS-based analyses</p>	<p>Determining best practices for limiting emissions of black carbon and other air pollutants from wildland fires and fire management measures.</p>
Partners	<p>GCI</p> <p>CAFF Secretariat</p>	<p>GCI</p> <p>EPPR Secretariat</p>	<p>AMAP Secretariat</p> <p>AMAP Climate Expert Group</p>	<p>AMAP</p> <p>EGBCM</p>

	<p>Natural resource agencies & departments of Interior, Resource Management, Forestry</p> <p>Knowledge holders</p> <p>Academics</p> <p>GIS specialists</p>	<p>Wildland fire experts and managers (operations division)</p> <p>Law & policy specialists</p> <p>Training branches</p>	<p>AMAP Short-lived climate forcers Expert Group</p> <p>Miami University</p> <p>ICCI</p> <p>IIASA</p> <p>Remote sensing agencies (e.g., NASA, NOAA, ESA, IKI)</p>	<p>CAFF</p> <p>EPPR</p>
<p>How work is intended to be used</p>	<p>Reduce threats of catastrophic wildfires</p> <p>Increased options for mitigating and managing fires depending on desired outcomes</p> <p>Support cross-border conversations about management</p> <p>Advance Arctic conversation because extent of impact in Arctic is known</p>	<p>Enable cross border responses to fire, bringing more resources to bear and creating economic opportunities for crews that understand and are trained in Arctic fire response</p> <p>Create the framework for joint responses when fires cross borders</p> <p>Proactively have mechanism for sharing resources</p> <p>Enable international cooperation, training, and contracting of wildland fire resources across state boundaries</p>	<p>Provide input to AMAP assessments to understand the causes and implications of wildfires for climate and air quality, including related societal impacts. Develop science-based advice for policy-makers. Parts of the AMAP work will feed into joint AMAP-CAFF project work on <i>'Understanding climate change impacts on Arctic ecosystems and associated climate feedbacks'</i>.</p>	<p>Reduce impacts of fires on air quality and climate change.</p> <p>Provide recommendations for best practices to manage emissions from wildland fires according to local conditions.</p>
<p>Timing</p>	<p>Project approved September 2019</p> <p>Steering Committee established Nov 2019</p> <p>PSI Funding application submitted Feb 2020</p>	<p>Project approved January 2020</p> <p>Steering Committee to begin early summer 2020</p>	<p>2021-2023, and beyond, building on work reported in AMAP 2021 assessment products</p>	<p>The project is in a conceptual stage and is still in the scoping process. We are hopeful that we will be able to begin work in 2021.</p>