



High-latitude Fires, Arctic Climate, Environment, and Health (HiFACE workshop)

Monday 28th March, 09:00-18:00 (UTC+2), Tromsø/Online

Organised by the Leverhulme Centre for Wildfires, Environment and Society, ACROBEAR and Arctic Voices (University of Leeds), and PACES.

Agenda

08:00-09:00 **Registration**

09:00-09:15 **Welcome and Introduction - HiFACE Organisers** (Adriana Ford, Steve Arnold, Marianne Tronstad Lund and James Ford)

Theme 1 Measuring and monitoring high-latitude fire and fire impact trends – past and present

(Chair - Marianne Tronstad Lund)

09:15-09:30 **Martin Wooster** (King's College London/Leverhulme Wildfires) *"A New EO method for quantifying high latitude fire emissions"*

09:30-09:45 **Mikhail Sofiev** (Finnish Meteorological Institute) - *"Fire activity for past and future climate: a new high-resolution fire predicting model"* (virtual)

09:45-10:00 **Jesús San-Miguel-Ayanz** (European Commission Joint Research Centre) *"Global Wildfire Information System (GWIS) as support to policies in the Arctic"* (virtual)

10:00-10:15 **Evgeny Kadantsev** (Finnish Meteorological Institute) *"Modelling natural fire ignitions by lightning"* (virtual)

10:15-10:30 *Theme 1 Discussion*

— COFFEE 10:30-11:00—

Theme 2 Drivers of high-latitude fires and fire risk

(Chair- Steve Arnold)

- 11:00-11:15** **Marianne Tronstad Lund** (CICERO, Oslo, Norway) *“Projected changes in variability of fire weather in boreal regions under different levels of global warming”*
- 11:15-11:30** **Jessica McCarty** (Miami University, Oxford, Ohio, USA) *“Uncertainties for Predicting Future Arctic Fires” (virtual)*
- 11:30-11:45** *Theme 2 Discussion*

Theme 3 Climate–vegetation-fire interactions, feedback and responses

(Chair- Steve Arnold)

- 11:45-12:00** **Jeremy Littell** (United States Geological Survey, Alaska Climate Adaptation Science Center) *“Landscape fire projections for boreal and Arctic Alaska: regional variation in climate-fire futures and implications for adaptation” (virtual)*
- 12:00-12:15** **Matt Kasoar** (Imperial College London/Leverhulme Wildfires) *“Future high-latitude fire emissions under CMIP6 scenarios, and implications for aerosol radiative forcing”*
- 12:15-12:30** **Katie Blackford** (Imperial College London/Leverhulme Wildfires) *“Representing peat fires in the Northern High Latitudes in INFERNO”*
- 12:30-12:45** *Theme 3 Discussion*
- 12:45-13:00** *General Discussion*

— LUNCH 13:00-14:00 —

Theme 4 Societal vulnerability, health impacts and responses to high latitude fire

(Chair- James Ford)

- 13:00-13:15** **Ivan Villaverde Canosa** (University of Leeds) *“The human-fire-climate nexus: unpacking community vulnerability and resilience to high-latitude fires”*
- 13:15-13:30** **James Whitehead** (University of Northern British Columbia) *“Living with Fire: Community Resilience to Wildfire Risk in Northern Canada” (virtual)*
- 13:30-13:45** **Vito Vitale** (CNR-ISP) *“Addressing wildfires in the Arctic: the Integrated Fire Risk Management (INFRA) Service”*
- 13:45-14:00** *Theme 4 Discussion*

14:00-18:00 Developing a Position Paper and Interdisciplinary Research Agenda

(Chair- Adriana Ford)

14:00-14:15 Introduction to workshop activities

In this part of the workshop, we will discuss the overarching question - “What are the unique dimensions of high-latitude fire?” and begin mapping out a position paper and research agenda. Discussion items will include risks, impacts, policies, research needs, and methodological approaches and research design. We will use live-sharing documents during this session.

14:15-14:45 1. Climate

14:45-15:15 2. Health

15:15-15:30 *Discussion*

— COFFEE 15:30-16:00—

16:00-16:30 3. Society

17:00-17:30 *What can we learn from high-latitude fires for a global perspective?*

17:30-18:00 Open Discussion on the position paper/agenda

18:00 END