



AGENDA (Final, 11 Feb 2025, times in GMT – Icelandic time)

THE 9th HIGH LATITUDE DUST WORKSHOP *with dust-art exhibition*

In-situ measurements, modelling, remote sensing, long-range transport, impacts of HLD and low latitude dust/aerosols in the Arctic, and CAMS in Iceland.

12-13 FEB 2025

Agricultural University of Iceland in *Reykjavik*, in co-operation with the ICEDUST Association, Finnish Meteorological Institute, UArctic Thematic Network on HLD, Czech University of Life Sciences, University of Belgrade, and Republic Hydrometeorological Service of Serbia

Venue: Agricultural University of Iceland (AUI), Arleynir 22, Keldnaholt, Reykjavik, Iceland

Link to Workshop online: <https://eu01web.zoom.us/j/67960919426>

DAY 1

Session 1: 10:00-11:30 (GMT) Chair: Outi Meinander		HLD observations in the Arctic
10:00 – 10:05	Pavla Dagsson-Waldhauserova and Outi Meinander	Welcome to the Workshop
10:05 – 10:10	Christian Schulze Head of International Relations and Research of the AUI	Welcome speech
10:15 – 10:35	Christian Juncher Jørgensen, Denmark, on site	Monitoring of mineral dust in Greenland and Svalbard - 2025 Update
10:35 – 10:50	Silvia Becagli, Italy	Chemical composition of dust deposition on surface snow in northern Greenland: a case study of March 2024

10:50 – 11:05	Daniel Bellamy, Canada	Measuring and modelling mineral dust from Canadian proglacial valleys
11:05 – 11:20	Polly Foster, UK	DustDrone: Aerial Sampling of dust plumes over Iceland
11:20 – 11:30	<i>Coffee and discussions</i>	
11:45 - 12:45	Lunch	
Session 2: 12:45-13:50 (GMT) Chair: Pavla Dagsson-Waldhauserova		Impacts of dust/particulates on plants, cryosphere and clouds
12:45-13:05	Outi Meinander, Finland, on site	Dust observations from field work conducted in 2024 in Svalbard, Greenland, Lapland Finland, Iceland and Austrian Alps
13:05-13:20	Jan Kavan, Czech Republic / Iceland	Topography and atmospheric conditions controls the HLD deposition, James Ross Island, Antarctica
13:20-13:35	Ross Herbert, UK	Long lived dusts from low latitudes may dominate primary ice production in polar regions
13:35-13:50	Erin Raif, UK	High ice-nucleating particle concentrations associated with Arctic haze in springtime cold-air outbreaks
13:50 - 14:00	Short coffee break	
Session 3: 14:00-15:30 (GMT) Chairs: Christian Juncher		HLD around the Arctic and HLD networking / Dust in art
14:00 – 14:20	Piotr Owczarek, Poland	The wood anatomy of tundra plants reveals an increase in wind erosion rates in the Arctic
14:15 – 14:30	Pavla Dagsson-Waldhauserova, Iceland, on site	High Latitude Dust projects and networking in 2024
14:30 – 14:35	Justine Mommer, Netherlands and Svalbard	Past and present loess dynamics and the impact of anthropogenic activities in the Arctic (Svalbard)
14:35 – 14:45	DUST-ART EXHIBITION OPENING	
14:45 – 15:00	Emilia Telese, Iceland / UK, on site	Breathing Space (2025)*
15:00 – 15:15	Beata Katerina Spacilova, Czech Republic, on site	See You Tomorrow, Lost in the Dust!**
15:15 – 16:00	<i>Exhibition, coffee and discussions</i>	Exhibition available until closing
16:00-16:45	 Open meeting of the UARctic Thematic Network on HLD	Discussions on HLD research strategy, networking and funding
17:00	Workshop Day 1 Closing	Thank you for today!

DAY 2

Session 4: 10:00-12:05 Chair: Pavla Dagsson-Waldhauserova and Outi Meinander		HLD sources and modelling, global dust vs. HLD models, CAMS in Iceland
10:00 – 10:05	Outi Meinander and Pavla Dagsson-Waldhauserova	Welcome to the second day of the HLD Workshop
10:05 – 10:30	Alexander Baklanov, Denmark, on site	Multi-scale modelling of HLD atmospheric transport, feedbacks and mitigation
10:30 – 10:50	Olafur Arnalds, Iceland, on site	Sandy deserts in Iceland
10:50 - 11:10	Coffee break and discussions	Dust-art exhibition
11:10-11:30	Bojan Cvetkovic, Slobodan Nickovic and Ana Vukovic, Serbia and WMO SDS-WAS NAME-E, on site	Fully coupled high-resolution Icelandic dust transport model DREAM-Iceland - verification, plans and complementing the CAMS aerosol capabilities
11:30-11:50	Mark Parrington, ECMWF	Monitoring long-range pollution transport to Iceland and high northern latitudes with CAMS global products
11:55 - 12:55	Lunch	Dust-art exhibition
CAMS Session: 13:00-14:05 Chair: Alexander Baklanov		CAMS in Iceland and long-range transport, air quality monitoring
13:00-13:20	Samuel Remy, France	Ongoing work to represent high latitude dust sources in the global CAMS system
13:20-13:45	Cristina Anannaso, ECMWF	Overview of Copernicus Hubs for Health and Energy
13:45-14:00	Hlynur Arnason, Iceland, on site	New airquality.is page (loftgæði.is)
14:00-14:20	Coffee break	Dust-art exhibition
Session 5 14:20-15:30 Chair: Pavla Dagsson-Waldhauserova		Remote sensing and HLD research strategy
14:20-14:40	Seyed Ali Sayedain, Canada, on site	Remote sensing of local dust events over the Canadian Archipelago
14:40-14:55	Aldona Wiacek, Canada	Satellite-based evidence of dust emission over Northern Canada
14:55-15:15	Agnes Pant, Germany, on site	In-situ Aerosol Measurements and Observations
15:15-15:25	Alexander Baklanov, Denmark, on site	AASCO, PACES, WMO SDS-WAS and UN Coalition Combating Sand&Dust Storms activities and strategy (focus on HLD)
15:25-15:30	Pavla Dagsson-Waldhauserova, Iceland, onsite	IceDust Association and updates on <i>in situ</i> measurements of HLD
15:30 – 15:45	Coffee and discussions	Dust-art exhibition available until closing
15:45 – 16:15	IceDust Association meeting	Strategy and planning
18:00	Workshop + Exhibition Closing	Thank you for being with us!

About the artists

* **Emilia Telese**, University of Loughborough, UK, and Icelandic Printmaking Association, Iceland, instagram @emiliatelese.studio

Emilia Telese is a multimedia artist based in Iceland. She uses earth and loam from emotionally and environmentally significant and meaningful places to make work pushing boundaries of printmaking and performance. Her works including Icelandic dust will be part of the Workshop.

Breathing Space (2025) is a conceptual printmaking series by artist and scholar Emilia Telese exploring the interplay between materiality, temporality, and environmental degradation. Using volcanic and atmospheric dust collected by scientist Pavla Dagsson-Waldhauserova from Icelandic dust storms, Telese makes ink for her mezzotint etchings on copper plates following recipes from the XVI Century. The work engages with ecological themes, highlighting the impermanence of the environment and its regenerative cycles. Drawing on theories of hyperobjects (Morton) and vibrant matter (Bennett), the series examines the agency of seemingly insignificant materials. The modular nature of the prints reflects fragmentation and change, while the slow, deliberate process of etching echoes the passage of time. Ultimately, Breathing Space invites reflection on environmental decay, renewal, and human interaction with natural forces.

****Beata Katerina Spacilova**, ARTS and Masaryk University, Czech Republic

Beata Katerina Spacilova is a multimedia artist and university educator. She teaches at the Faculty of Fine Arts in Brno and at the Faculty of Informatics at Masaryk University. In addition to BRNO ŠIJE, she also founded an open screen printing workshop called BRNO TISKNE.

See You Tomorrow, Lost in the Dust!

The exhibition See You Tomorrow, Lost in the Dust! presents a unique collection of photographic prints created using a special acetone technique. A key element of this work is the use of volcanic dust sourced directly from the heart of Iceland's desert, which gives each piece its distinctive texture and atmosphere. The exhibition combines an experimental approach to photography with natural materials, capturing the transience and raw beauty of Icelandic landscapes.

We look forward to welcoming you!

Organizing team: Pavla Dagsson-Waldhauserova (Agricultural University of Iceland, contact: firstname@lbhi.is), Outi Meinander (Finnish Meteorological Institute, contact: firstname.lastname@fmi.fi), Alexander Baklanov (WMO and University of Denmark, contact: Alastname@wmo.int), and in co-operation with the IceDust Association, Iceland.