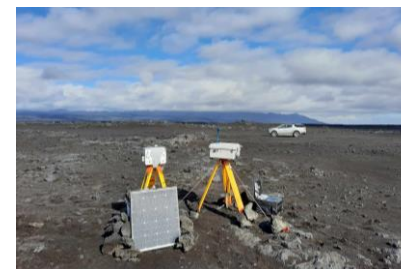


## High Latitude Dust field campaigns 2023

**Country:** Iceland (2 campaigns):  
**Location:** NE Iceland - Dyngjúsandur  
**Time period:** 20.8.2023-1.9.2023  
**Campaign's goal:** Atmospheric dust measurements for CAMS product and DREAM model validation  
**Campaign participants:** Agricultural University of Iceland, National Land Survey of Iceland  
**Instruments:** Dusttrak DRX, LOAC  
**Contact person:** Pavla Dagsson-Waldhauserova



**Location:** NE Iceland - Modrudalur  
**Time period:** 1.9.2023 - ongoing  
**Campaign's goal:** Atmospheric dust measurements for CAMS product and DREAM model validation  
**Campaign participants:** Agricultural University of Iceland, National Land Survey of Iceland  
**Instruments:** Dusttrak DRX, LOAC  
**Contact person:** Pavla Dagsson-Waldhauserova



**Country:** Canada  
**Location:** SW Yukon  
**Time period:** Ongoing - visited in May 2023  
**Campaign's goal:** Wind model validation and dust measurements  
**Campaign participants:** Université de Montréal  
**Instruments:** Cimel, Purple Air  
**Contact person:** James King



**Country:** Greenland (4 campaigns)  
**Location:** W Greenland - Kangerlussuaq  
**Time period:** Ongoing - visited in August 2023  
**Campaign's goal:** Monitoring of High Latitude Dust  
**Campaign participants:** Aarhus University  
**Instruments:** Passive and active high volume samplers  
**Contact person:** Christian Juncher Jørgensen



**Location:** S Greenland - Vatnahverfi  
**Time period:** 1. 2. 2023 – 15.1. 2026  
**Campaign's goal:** Quantification of HLD annual fluxes and sources, including effects of HLD on soil properties (soil structure and functions, water retention, microbial diversity) to improve perennial grassland productivity and animal health  
**Campaign participants:** Aarhus University and University of Göttingen, Germany  
**Instruments:** Weather stations ATMOS 41, hall deposition traps, Alphasense OPC-N3, MWAC, soil water content sensors (Meter ECH20 EC-5), soil matric potential and temperature sensors (Meter TEROS21), vegetations plots (triplicates)  
**Contact person:** Trine Nørgaard

**Location:** NE Greenland - Mestersvig  
**Time period:** 1.-31.8. 2023  
**Campaign's goal:** Monitoring of High Latitude Dust and geochemical composition of dust sources, affected by legacy mine tailings since the late 1950's  
**Campaign participants:** Aarhus University  
**Instruments:** Passive and active high volume samplers  
**Contact person:** Christian Juncher Jørgensen



**Location:** E Greenland - Ittoqqortoormiit  
**Time period:** Ongoing  
**Campaign's goal:** Monitoring of aerosol size distribution and collection of aerosol samples

Campaign participants: Technische Universität Darmstadt  
Instruments: Optical particle spectrometers, active low-volume sampler  
Contact person: Konrad Kandler

**Country: Svalbard (2 campaigns)**

Location: Adventtdalen  
Time period: 1.-30.9. 2023  
Campaign's goal: Monitoring and characterizing High Latitude Dust from both natural and mining sources and to link the current dust deposition rates to paleoclimatic archives in permafrozen Loess deposits.

Campaign participants: Aarhus University  
Instruments: Passive and active high volume samplers  
Contact person: Christian Juncher Jørgensen

Location: Hornsund Polish Arctic Station  
Time period: Ongoing  
Campaign's goal: Monitoring of aerosol size distribution and collection of aerosol samples  
Campaign participants: Technische Universität Darmstadt  
Instruments: Optical particle spectrometers, active low-volume sampler  
Contact person: Konrad Kandler

