

Workshop-1 - Pilot-Nro 1: Short-living climate forcers in the Arctic and Eurasia

Conceptual design aimed: to analyse short-living climate forcers (SLCF), anthropogenic and biogenic emissions, physical and chemical processes of aerosols formation and forcing in the Arctic regions. Develop and apply integrated multi-scale modelling tools for studies of BC/OC, ozone, methane and sulphur reduction effects on the environment and climate. Elaborate recommendations and mitigation strategies.

Overall schedule: August 18. (Monday) 18:00 to August 20 (Wednesday) 16:00

Detailed objective of the workshop: Enhance collaboration between Nordic and Russian collaborators in modeling and measurements of short-lived climate forcers in the arctic regions. Planning of joint projects and publications.

Agenda combined with UK workshop and UHEL summer school

Time	Monday, August 18	Tuesday, August 19	Wednesday, August 20
08:00-09:00		Breakfast	Breakfast
09:00-11:00		Session 2: SLCFs in the Arctic	Joint session 1 with summer school
			Petäjä: Tutorial on PEEX and BAECC
11:00-12:00	Lunch	Lunch	Lunch
12:00-13:30		Discussion	Joint session 2 with summer school
			Spracklen: Tutorial on global
			modeling
13:30-14:00	Coffee break	Coffee break	Coffee break
14:00-16:00		Session 3:	Session 5:
			Visit to SMEAR II station

			adjourn by 16:00
16:00-17:00	Dinner	Break (30 min)	
18:00-20:00	Session 1: 120 min	Session 4 (150 min)	
	Theme: Large research initiatives	Summary and concluding remarks,	
	and activities in the Arctic	next steps	
20:00 -	Sauna and evening snack	Boreal dinner and sauna	

Session 1: (120 min), Chair: Petäjä

Theme: Large research initiatives and activities in the Arctic

Kulmala / Petäjä: Opening words

Lappalainen: General PEEX framework and current status

Joakim Langner (Arnold) - Source contributions to SLCPs in the Arctic Steven Arnold: Lessons from the POLMIP Arctic model intercomparison

Kerminen: Feedbacks in PEEX domain based on observations

Session 2: Theme: SLCF in the Arctic, Chair: Arnold

Spracklen: Aerosol at boreal high latitudes

Makkonen: global modeling Asmi: Tiksi and Pallas results

Petroy - New aircraft activities in Russian Arctic

Open discussion, Chair Arnold

Ongoing and planned joint activities in EU/UK/Russia collaboration

measurement / modeling / applications

education

infrastructures

funding opportunities

publications

Session 3: Theme: SLCF emissions, Chair: Lappalainen

Klimont Zbigniew (Paasonen): IIASA results

Korhonen: Climate impacts of changing aerosol emissions since 1996

Lihavainen: BC in the arctic based on MACEB results

Laaksonen: Fennoscandian BC emissions

Paasonen: anthropogenic and biogenic emissions of aerosols in PEEX domain

Popovicheva: Observations and characterization of aerosols from Siberian boreal forest wildfires

Session 4: Theme: SLCF emissions, feedbacks and effects, Chair: Arnold

Monks: TBA

Yang: Introduction to DMI research activities in PEEX domian

Terzhevik: Methanogenesis in shallow boreal lakes: Physical-biochemical background

Riipinen (remote): Long term trends in BVOC emissions (15 + 5)

Boreal dinner starting at 18:45

Joint session 1: 90 min

Petäjä: Tutorial on PEEX and BAECC

Joint session 2: 90 min

Spracklen: Tutorial on global modeling

Session 5:

Visit to SMEAR II station

PARTICIPANT LIST

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1.	Yang	Xiaohua	DMI	DK			
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18. Monks	Sarah	Univ.Leeds	UK		