

# (AC)<sup>3</sup> IRTG – Winter school on 'Causes, contributions, and trends to Arctic Amplification' 23 – 29 March 2025



## School schedule

time		Sun	Mon	Tue	Wed	Thu	Fri	Sat
start	end	23 March	24 March	25 March	26 March	27 March	28 March	29 March
7:30	8:30		BREAKFAST	BREAKFAST	BREAKFAST	BREAKFAST	BREAKFAST	BREAKFAST
8:30	9:45		<b>Manfred Wendisch</b> <i>Airborne energy budget measurements over different surfaces</i>	<b>Manuela van Pinxteren</b> <i>The Interconnection of Oceans, Aerosols, and Clouds in the Climate System</i>	<b>Susanne Crewell</b> <i>The Arctic atmospheric water cycle – insights from observations</i>	<b>Annette Rinke</b> <i>Atmosphere-ice-ocean interactions related to cyclones</i>	<b>Heike Kalesse-Los</b> <i>Synergistic remote-sensing of the Arctic atmosphere with active and passive remote-sensing instrumentation</i>	Departure to Helsinki: 10:00
10:00	11:15		<b>Claire Pettersen</b> <i>High-latitude cloud and precipitation processes</i>	<b>Silvia Calderón</b> <i>Understanding aerosol-cloud interactions with an aerosol-aware large eddy simulation model</i>	<b>Dmitri Moissev</b> <i>Characterizing falling ice particles and link to cloud properties</i>	<b>Sandro Dahlke</b> <i>Synoptic-scale drivers of Arctic boundary layer processes and surface energy fluxes</i>	<b>Gunnar Spreen</b> <i>Ocean - Sea Ice Interactions in the Arctic – A Satellite Perspective</i>	
11:15	12:00		LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	
12:00	13:30		Project work in WG	Project work in WG	Project work in WG	Project work in WG	Presentations by participants	
13:30	14:00		COFFEE	COFFEE	COFFEE	COFFEE	COFFEE	
14:00	15:30		Free time for outside activities	Tour of SMEAR II	Free time for outside activities	Free time for outside activities	Free time for outside activities	
15:30	16:30		Project work in WG	Project work in WG	Project work in WG	Project work in WG	Presentations by participants	
16:30	17:30	Departure to Hyytiälä: 16:30 from Helsinki city center (railway station) 17:00 from Airport	DINNER	DINNER	DINNER	DINNER	Wrap-up & school feedback	
18:00			Project work in WG	Project work in WG	Project work in WG	Project work in WG		
19:00							Conference dinner & party	
20:00		Welcome and Presentation of school goals and project work						

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## Working groups

WG 1	Application of the Virga-Sniffer Tool	Andreas Foth
WG 2	Exploring mid- and high-latitude precipitation properties and processes using a comprehensive Northern Hemisphere particle microphysics dataset	Claire Pettersen
WG 3	The beauty of snow: field work, microwave emission modeling and spaceborne observations of snow on ground	Janna Rückert
WG 4	Application of an atmospheric feature tracking tool to understand future changes in Arctic cyclones	Lars Aue & Annette Rinke
WG 5	Unraveling the secrets of snow and aerosols: A dynamic mix of theory and hands-on training in lab and field	Manuela van Pinxteren
WG 6	Exploring Arctic Cloud Properties: A study Leveraging Remote Sensing data from the HALO-(AC) <sup>3</sup> campaign	Marcus Klingebiel
WG 7	Marine Cold Air Outbreaks in the Arctic: Investigating aspects and changes from recent to future climates based on CMIP6 and ICON simulations	Sandro Dahlke
WG 8		HEL?

Working groups' materials: <https://cloud.ac3-tr.de/index.php/s/D3FZWZ2Xd4MbtN9>

For further information, please visit the IRTG webpage ([ac3-tr.de/phd/](https://ac3-tr.de/phd/)) or contact the IRTG coordinator Christa Genz ([irtg@ac3-tr.de](mailto:irtg@ac3-tr.de)).