AIMS

The conference will summarize the scientific results obtained within the Transregional Collaborative Research Center TR 172 on Arctic Amplification (AC)³, and discuss them in context with the international research community. Distinguished guest speakers will talk about recent highlights and current hypotheses in the field of Arctic climate research accompanied by talks from our early career scientists in three sessions. Posters will be presented in six sessions corresponding to the (AC)³ clusters. The (AC)³ „Best Poster Prize“ will be awarded. The conference is supposed to promote scientific exchange and identify key tasks to be addressed in near-future Arctic climate research. It is open to scientists presenting (AC)³ relevant topics, also beyond the framework of (AC)³.
On behalf of the Transregional Collaborative Research Center TR 172 on Arctic Amplification: Climate Relevant Atmospheric and Surface Processes, and Feedback Mechanisms (AC³) we cordially invite you to attend the 3rd (AC³)³ Science Conference which will take place in Potsdam, Germany from 25 to 27 October 2021.

**PROGRAM**

### Monday, 25 October 2021

Meet & Mingle
Icebreaker

### Tuesday, 26 October 2021

**Session I**
Aerosols & Clouds
Invited Speaker: Ann Fridlind (NASA, Goddard Institute for Space Studies) - “High-latitude cloud processes in models: Challenges and strategies”

**Session II**
Sea Ice
Invited Speaker: Julienne Stroeve (UCLA Earth Sciences) - “Sea ice & Arctic amplification”

**Crosscutting Activities (CCA):** Breakout sessions
CCA1 - Lapse rate feedback
CCA2 - Surface processes
CCA3 - Arctic mixed-phase clouds
CCA4 - Air mass transport and transformation

**Evening Talk**
Invited Speaker: Esther Horvath “Impressions from the MOSAiC Expedition”

### Wednesday, 27 October 2021

**Poster Session A, B (Group I), C**

**Poster Session B (Group II), D, E**

**DEADLINES & REGISTRATION**

Abstract submission:
until 06 September 2021
to admin@ac3-tr.de

Conference registration:
until 13 September 2021
at http://ac3-tr.de/meetings

**POSTER SESSIONS**

A  Fluxes in the Arctic Boundary Layer
B  Clouds; Aerosols & Water Vapour
C  Ocean, Atmosphere & Sea Ice Interaction
D  Atmospheric Circulation & Transport
E  Integration & Synthesis