



(AC)³ General Assembly Bremen

September 15 – 17, 2026

Institute for Environmental Physics (IUP), University of Bremen,
Otto-Hahn-Allee 1, 28359 Bremen, Germany

[Zoom Link](#)

Agenda

TUESDAY, 15 September 2026

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| 13:00 – 13:30 | <i>Registration desk</i> |
| 13:30 – 14:00 | Welcome & Introduction – <i>Manfred Wendisch (Leipzig University), HS2</i> |
| 14:00 – 16:00 | <u>Strategic Questions (SQs)</u>
Cluster speakers present project contributions to SQs (20 min each)
General discussion (20 min) |
| 16:00 – 16:30 | <i>Coffee break</i> |
| 16:30 – 18:00 | <u>Poster Session I</u> (see Poster list, Studierhaus) |
| 19:00 | <i>Dinner at Schüttinger Gasthausbrauerei (Hinter dem Schütting 12-13, 28195 Bremen) – (AC)³ covers the cost of a main course from the menu and 2 soft drinks, binding registration required</i> |





Wednesday, 16 September 2026

- 09:00 – 11:00 **Roundtable Discussions of SQs – parallel sessions**
SQ1 chaired by Gunnar Spreen (HS1)
SQ2 chaired by Kerstin Ebell (HS2)
SQ3 chaired by Manfred Wendisch (S1260)
- 11:00 – 11:30 *Coffee break*
- 11:30 – 12:30 **Cross-Cutting Activities I** (20 min each, HS2)
CCA1: Convection – *Johannes Quaas (Leipzig University)*
CCA2: Surface parameterizations – *Evi Jäkel (Leipzig University)*
General Discussion
- 12:30 – 13:30 *Lunch break*
- 13:30 – 18:00 **Workshops** (incl. Coffee break 15:30 – 16:00)
For details please see attachment "Workshop descriptions", registration required
Workshop 1 - "Body Language & Rhetoric for Women in Science" (S1260)
Workshop 2 - "Academic Talent Recruitment with Gender Sensitivity" (S1330)
Workshop 3 - "Wenn Wissenschaft wirkt – Rhetorik und Rezepte für überzeugende Vorträge" (S1270)
Workshop 4 - "Steps towards more digital independence" (S1360)

THURSDAY, 17 September 2026

- 09:00 – 10:30 **Poster Session II** (see Poster list, Studierhaus)
- 10:30 – 11:00 *Coffee break*
- 11:00 – 12:00 **Cross-Cutting Activities II** (20 min each, HS2)
CCA3: Arctic mixed-phase clouds – *Vera Schemann (University of Cologne)*
CCA4: Air mass transport & transformation – *NN (University of Cologne)*
General Discussion
- 12:00 **Closing remarks & End of meeting**



(AC)³ is going to cover the dinner and non-alcoholic drinks on Tuesday, as well as all coffee and lunch breaks during the GA meeting via the central project Z01. Childcare is covered via the (AC)³ equal opportunity funds (please forward your requests).





Poster Session I (Studierhaus)

- #1 "Airborne Studies on Arctic and Antarctic New Particle Formation" – *David Simon et al. (TROPOS)*
- #2 "Seasonal Evolution of Carbohydrates in Arctic Seawater and Sea Ice: Their Story Before They Become Bioaerosols" – *Sebastian Zeppenfeld et al. (TROPOS)*
- #3 "Increased precipitation from low-level coupled clouds" – *Hannes Griesche et al. (TROPOS)*
- #4 "The changing role of convection in the Arctic" – *Sophie Vliegen et al. (Leipzig University)*
- #5 "Effect of aerosols on clouds during atmospheric rivers" – *Fathima cherichi purayil et al. (Leipzig University)*
- #6 "Variability of Current-Induced Shear Around a Sea-Ice Ridge" – *Yeon Choi et al. (University of Bremen)*
- #7 "Evaluating CAMS BrO model data as a potential stratospheric correction for satellite BrO retrievals" – *Bianca Zilker et al. (University of Bremen)*
- #8 "IOP4H2O: investigating water vapor, clouds and precipitation in an unusually warm winter month at AWIPEV station" – *Sabrina Schnitt et al. (University of Cologne)*
- #9 "Assessing EarthCARE Cloud Profiling Radar Observations in Arctic Clouds Using Coordinated Airborne Radar and Lidar Underflights" – *Lars van Gelder et al. (University of Cologne)*
- #10 "Projected Changes in Northern Hemisphere Weather Regimes Using a Deep Learning–Based Classification Approach" – *Abdellah Bizdaz et al. (Leipzig University)*
- #11 "Light transmission through sea ice: from observations to parameterization" – *Florian Zimmer et al. (AWI Bremerhaven)*
- #12 "A decade of Arctic airborne observations (2017-2026): A preliminar evaluation of kilometer scale ICON simulations across campaigns" – *José Vicencio et al. (University of Cologne)*
- #13 "Balloon-borne assessment of ICON-simulated thermodynamic and radiative states within the Arctic atmospheric boundary layer during transition events" – *Henning Dorff et al. (Leipzig University)*
- #14 "Patterns and trends in Arctic aerosol loading as seen from satellite remote sensing" – *Neha Mehendale et al. (University of Bremen)*
- #15 "Diagnosing Moisture Transport and Structure of an Atmospheric River Using Water Vapour Isotopes: Insights from Model Simulations and Observations" – *Angel Ignatious et al. (University of Bremen)*
- #16 "Retrieving Arctic Summer Sea Ice Thickness below Melt Ponds" – *Maximilian Ringel et al. (University of Bremen)*



- #17 "Modulation of temperature inversions in the ABL derived from radiative transfer simulations forced by balloon-borne observations" – *Komal Navale et al. (TROPOS)*
- #18 "Svalbard's atmosphere is moistening faster than expected by Clausius-Clapeyron response to warming" – *Phillip Eisenhuth et al. (AWI Potsdam)*
- #19 "Validation of Satellite Retrieval of Aerosol Optical Depth over Snow" – *Linus Andrae et al. (University of Bremen)*
- #20 "(AC)³ Data: Current Status and Plan for the Final Year" – *Johannes Röttenbacher et al. (University of Bremen)*
- #21 "Evaluation of mcao snowfall from reanalyses using estimates from flight observations" – *Awadhesh Pant et al. (University of Cologne)*
- #22 "Retrieving Capacitance and Ventilation Factor Using Observations of Sublimating Snowfall" – *Beril Aydin et al. (Leipzig University)*



Poster Session II (Studierhaus)

- #23 "New melt pond fraction parametrization for HIRHAM-NAOSIM" – *Patrizia Schoch et al. (Leipzig University)*
- #24 "Characterizing the Evolution of Cloud Streets During Arctic Marine Cold Air Outbreaks Using Satellite Observations" – *Hannah Sundermann et al. (TROPOS)*
- #25 "Airborne Studies on Arctic and Antarctic New Particle Formation" – *Lara Aschenbeck et al. (University of Bremen)*
- #26 "Investigation of sublimation with active ground-based remote sensing in Ny-Ålesund" – *Andreas Foth et al. (Leipzig University)*
- #27 "Evolution of cloud-top radiative cooling and entrainment during Arctic cold air outbreaks" – *Michael Schäfer et al. (Leipzig University)*
- #28 "The anomalously warm summer of 2023 over Greenland as compared to previous record melt summers of 2012 and 2019" – *Alexander Mchedlishvili et al. (University of Bremen)*
- #29 "Cloud and Thermodynamic Signatures of Continuous and Stepwise Moistening/Drying Events at Ny-Ålesund" – *Christian Buhren et al. (University of Cologne)*
- #30 "Assessment of cloud representation in ICON compared to airborne measurements during COMPEX" – *James Panton et al. (University of Cologne)*
- #31 "Cloud fraction driven thermal-infrared radiative effects of Arctic low-level clouds in marine cold air outbreaks" – *Sophie Rosenberg et al. (Leipzig University)*
- #32 "Impact of lead-resolving sea-ice concentration as lower boundary condition in km-scale NWP" – *Florian Gebhardt, Joshua Müller et al. (AWI Potsdam, Leipzig University)*
- #33 "Radiative Impact of Cold Air Outbreak Clouds" – *Marcus Klingebiel et al. (Leipzig University)*
- #34 "Exploring aerosol-cloud interactions in Arctic mixed-phase clouds using ICON-LEM" – *Lena Bruder et al. (University of Cologne)*
- #35 "Eurasian Winter Temperature Response to Barents–Kara Sea Ice Variability and Ural Blocking" – *Ernest Agyemang-Okro et al. (Leipzig University)*
- #36 "A Dynamical View of Arctic Sea Ice: Sea Ice Deformation and Its Changes Over the Last Decades" – *Linxin Zhang et al. (University of Bremen)*
- #37 "Representing sea-ice heterogeneities and the Arctic boundary-layer using a thermal heterogeneity parameter" – *Ilga Staudinger et al. (University of Cologne)*
- #38 "Change in ocean circulation in Barents Sea associated with rapid ice change events" – *Ufuk Özkan et al. (AWI Bremerhaven)*
- #39 "Kilometer-scale modeling of boreal wildfire smoke" – *Swetlana Paul et al. (TROPOS)*



- #40 "Sources and Sinks of the Cold Halocline Layer in the Arctic Ocean" – *Khaled Al Hajjar et al.* (Leipzig University)
- #41 "VAMPIRE dataset - Arctic clouds, water vapor and sea ice emissivity" – *Linnu Bühler et al.* (University of Cologne)
- #42 "The effect of improved turbulence parametrization in ICON-NWP on simulations of Arctic winter stable-boundary layers" – *Florian Gebhardt et al.* (AWI Potsdam)
- #43 "Evaluation of the isotope enhanced ICON-ART climate model" – *Hannah Marie Eichholz et al.* (Leipzig University)