	DAY 1 - Tuesday 13th June 2023					
Time (UTC)	Time (Kiel)	Speaker - Title				
		Chair: Stephanie Fiedler				
07:00	9:00	Stephanie Fiedler Aim & logistics of CACTI workshop 2023				
07:10	9:10	Bill Collins What did we achieve in AerChemMIP?				
07:30	9:30	Michael Schulz histSST-piAer or histSST-piNTCF or piClim-histaer or piClim-spAer-histaer or hist-piAer or hist-aer or hist-piNTCF or hist-spAer-aer or hist-spAer-all or historical or histSST				
07:45	9:45	Alkiviadis Kalisoras Decomposing the Effective Radiative Forcing of anthropogenic aerosols based on seven CMIP6 Earth System Models				
08:00	10:00	Øivind Hodnebrog, Gunnar Myhre Earth's energy imbalance trend strengthened by recent aerosol emission reductions				
08:15	10:15	Naga Oshima Contributions of anthropogenic aerosol forcing to mid-20th century Arctic cooling/ Changes in dust emissions in the Gobi Desert due to global warming				
08:30	10:30	BREAK				
		Chair: Fiona O'Connor				
09:00	11:00	Pierre Nabat Impact of updated aerosol anthropogenic emission inventories on aerosol radiative forcing				
09:15	11:15	Laura Wilcox Aerosol in AerChemMIP: looking back to look forward				
09:30	11:30	Chris Rentsch and Gunnar Myhre Fingerprint of CO2 and other gases on the greenhouse effect from direct satellite observation				
09:45	11:45	Bill Collins Past and future climate forcing from ozone depleting substances				
10:00	12:00	Natalie Mahowald The importance of historical and paleoclimate aerosol radiative effects				
10:15	12:15	LUNCH				
11:30	13:30	Discussion Groups B and J				
13:00	15:00	BREAK & POSTER SESSION				
		Chair: Steven Turnock				
14:00	16:00	Dan Westervelt Preliminary results of the RAMIP simulations in NASA GISS ModelE				
14:15	16:15	Joonsuk Kang Anthropogenic aerosols have significantly weakened Northern Hemisphere summertime storminess in the post-satellite era				
14:30	16:30	Robert J. Allen Anthropogenic aerosol impacts on Pacific Coast precipitation in CMIP6 models				
14:45	16:45	Ruth Digby How well do Earth System Models reproduce observed aerosol changes during the Spring 2020 COVID-19 Lockdowns?				
15:00	17:00	ONLINE END & ICE BREAKER				

	DAY 2 - Wednesday 14th June 2023				
Time (UTC)	Time (Kiel)	Speaker - Title			
		Chair: Michael Schulz			
07:00	9:00	Tim Butler Global chemistry-climate modelling for assessment of Hemispheric Transport of Air Pollution			
07:20	9:20	Fiona M. O'Connor The role of an interactive methane cycle in climate sensitivity and climate feedbacks			
07:35	9:35	Marianne T. Lund Implications of differences between recent anthropogenic aerosol emission inventories on diagnosed AOD and radiative forcing from 1990 to 2019			
07:50	9:50	Vaishali Naik The World Avoided: Air Quality and Climate Impacts of the U.S. Clean Air Act			
08:05	10:05	Toshihiko Takemura Simulation of climate change due to reducing regional anthropogenic aerosol emissions using a coupled atmosphere-ocean model			
08:20	10:20	BREAK			
09:00	11:00	Discussion Groups A and R			
10:15	12:15	LUNCH			
		Chair: Vaishali Naik			
11:30	13:30	Alex Archibald Ace in the hole or a house of cards: Will a DeCK experiment help atmospheric chemistry?			
11:45	13:45	Lee T. Murray Forecasted climate penalties and benefits to ozone and PM2.5 across the 21st century under different SSP scenarios			
12:00	14:00	Qindan Zhu Characterizing continental-scale OH trends in CESM2-WACCM6 climate model			
12:15	14:15	Bjørn H. Samset Regional and seasonal responses to rapid mitigation of absorbing aerosol emissions			
12:30	14:30	Matt Kasoar The Rapidly Changing Pattern of Fire and its Impact on Future Climate			
12:45	14:45	САСТІ РНОТО			
13:00	15:00	BREAK			
13:30	15:30	Discussion Groups F and T			
15:00	17:00	END - Optional visit of GEOMAR aquarium on West Shore (free entry for workshop attendees, closes at 18:00)			
15:00	17:00	CACTI COMMITTEE MEETING			
	20:00	JOINT DINNER - Cotidiano Kiellinie, Reventlouallee 2, 24105 Kiel			

	DAY 3 - Thursday 15th June 2023					
Time (UTC)	Time (Kiel)	Speaker - Title				
		Chair: Matt Kasoar				
07:00	9:00	Vaishali Naik CMIP7 update				
07:20	9:20	Lee T. Murray The Chemistry Climate Model Initiative (CCMI): Current activities and future plans				
07:35	9:35	Franziska Winterstein Project IRFAM-ClimS: Estimating the Impact of the Radiative Feedback from Atmospheric Methane on Climate Sensitivity				
07:50	9:50	Birgit Hassler Earth System Model Evaluation Tool (ESMValTool): analyzing CMIP data made easy				
08:05	10:05	Laura Wilcox The Regional Aerosol Model Intercomparison Project				
08:20	10:20	BREAK				
		Chair: Paul Griffiths				
09:00	11:00	Dirk Olivié Lessons from covid-19 emission reduction simulations with NorESM2				
09:15	11:15	Olaf Morgenstern Comparison of Arctic and Antarctic Stratospheric Climates in Chemistry Versus No-Chemistry Climate Models				
09:30	11:30	James Weber Chemistry-albedo feedbacks offset up to a third of forestation's CO2 removal benefits.				
09:45	11:45	Ben Johnson Self-lofting increases altitude and long-range transport of absorbing aerosols in UKESM1				
10:00	12:00	Ryan Kramer Plans for the Future of RFMIP				
10:15	12:15	LUNCH				
		Chair: Bill Collins				
11:30	13:30	Group rapporteurs 10 minute reports plus 5 minute questions on outcomes from discussion groups				
13:00	15:00	BREAK				
13:30	15:30	Stephanie Fiedler, Fiona O'Connor, Duncan Watson-Parris Overall discussion and our way forward for CMIP7				
15:00	17:00	END				

Discussion groups				
	Discussion leads	Topic		
Group J	James Weber	Changes to SLCFs and the climatic impact from plausible CDR strategies		
Group T	Tim Butler	Coordinating activities between CACTI and HTAP		
Group A	Paul Griffith, Lee T. Murray	Ace in the hole or a house of cards: Will a DeCK experiment help atmospheric chemistry?		
Group B	Bob Allen, Laura Wilcox (online lead)	Aerosol in AerChemMIP: looking back to look forward		
Group R	Ryan Kramer, Tim Andrews, Chris Smith (online lead)	Rearranging the DECK chairs: What should RFMIP look like for CMIP7?		
Group F	Fiona O'Connor, Paul Griffith, Stephanie Fiedler, Duncan Watson-Parris	Scientific goals of AerChemMIP2		

	Posters
Muhammad Zeeshaan Shahid	Long-Term Variability of Aerosol Concentrations and Optical Properties over the Indo-Gangetic Plain in South Asia
Steven Turnock	Drivers of the Ozone health burden over the historical period
Vidya Varma	Response of the ITCZ to anthropogenic aerosol patterns in CMIP6 historical simulations
Wenjuan Huo	Can the radiative solar forcing play a role in decadal climate variability and predictability?
Sabine Bischof	Surface response to extreme events in the stratosphere under different global warming thresholds
Ove Haugvaldstad	Global and regional impacts of mineral dust aerosols in CMIP6 Earth system models
Franz Kanngießer	Al-assisted cloud removal in satellite-based aerosol observations: A mineral dust case-study
Sedat Gozlet	Unraveling the Jet Stream Patterns: A Thermal Wind Perspective in a Warming Climate
Glen Chua	Climate and Atmospheric Composition Effects of Hydrogen Leakage under Different Methane Emission Scenarios