	June 2, 2025	June 3, 2025	June 4, 2025	June 5, 2025	June 6, 2025	June 7, 2025
	Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**	**Saturday**
		8:30-8:40	**8:30-8:40**	**8:30-8:40**	**8:30-8:40**	
		logistics	***logistics***	***logistics***	***logistics***	
		8:40-10:20	**8:40-10:30**	**8:40-10:30**	**8:40-10:20**	
AM-1		Boone - ACE-FTS aerosols, trends, etc.	**Khaykin - extreme events - invited**	**Montmessin - planetary - invited**	Friedl-Vallon - GLORIA-Lite	**9:00-16:00**
	10:00-11:00	Jeffery - OCTAV biases	Remai - OSIRIS aerosol aftter Hunga	Sofieva - O3 trends from ozone_CCI	Johansson - GLOIRA at ASCCI	
	Registration	Da Costa - meso limb T from OMPS	Loens - aerosol transport by streamer	Nath - ozone trends sensitivity	Trinkl - GLORIA CH2Cl2 + PAN	
	11:00-11:20	Sheese - 20 years of ACE-FTS T trends	Wallis - Hunga impact on NLCs	Auffarth - trends uncert. for TC/profile O3	Errera - UTLS OSSE for CAIRT	***APARC LOTUS meeting***
	IMKASF Director Jan Cermak address	Warnock - SASKTRAN	Khaykin - GSAW	Monsees - O3 changes & synop. MOSAiC	Bender - EPP-climate for CAIRT	*KIT Campus South*
	logistics	**Break**				*building 11.40*
AM-2	**11:20-13:00**	**10:50-12:50**	**11:00-12:30**	**11:00-12:00**	**11:00-12:00**	*room 231*
	Bourassa - OSIRIS overview	**Dekemper - ALTIUS - invited**	**Dube - UA trends in temp - invited**	Tegtmeier - AoA changes + strat Cl	Langille - ALI/SHOW suborbit	
	Walker - ACE validation results	**Degenstein - HAWC - invited**	Venugopal - MLS H2O/O3 QBO insight	Kerzenmacher - MIPAS trace trends QBO	Huang - overshooting convection	
	Gumbel - Odin & NLCs	**Chipperfield - CAIRT - invited**	Saunders - ACE-FTS mixing barrier stren.	Zou - ACE/MIPAS CFC trends	Weidmann - SOLSTICE	
	Arosio - OMPS O3 retr. surface reflectance	**Gerber - Keystone - invited**	Brehon - vert / merid. Transport MLS H2O	**POSTERS - 12:00 - 13:00**	**Closing remarks**	
	Harrison - spectroscopy at NCEO					
	LUNCH					
PM-1	**14:00-15:30**	**14:00-15:30**	**14:00-17:00**	**14:00-15:30**		
	Megner - MATS mission - invited	**Oman - STRIVE - invited**		**KIT Vice-President Oliver Kraft address**		
	Krasauskas - 3-D tomography for MATS	DeLand - ARGOS		Zawada - ALI retr. test with OMPS/OSIRIS		
	Szelag - Mesospheric O3 + T trends	Schneider - IASI/IASI-NG H2O bridging		Rosanov - particle size in OMPS-LP retr.		
	Himes - ML strato H2O from OMPS-LP	Zoppetti - limb nadir fusion		Pohl - aerosol ext. comps for OMPS		
	POSTERS - 15:30 - 16:30		*Social event: ZKM visit*	Leavor - ML for strat aerosol evolution		
	Break			**Break**		
PM-2	**16:30-17:40**	**16:00-16:10**		**16:00-17:40**		
	Damadeo - SAGE III/ISS - invited	*Group photo*		Taha - strat aerosol pertub by Ruang		
	Kramarova - OMPS-LP O3 retrievals	**16:10-17:40**		Ernest - SAGE III/ISS ext - particle size		
	Richards - OMPS-LP O3 validation	**Rosenlof - Hunga strat impacts - invited**		Flittner - SAGE III/ISS NO2		
		Petropavlovskikh - OCTAV sondes		McKee - SAGE III/ISS aerosol Hunga		
	20:00	Hubert - ozone_CCI gb assessment	**19:00**	Santee - chemical proc. SH post Hunga		
	Outreach talk by Christian von Savigny at Naturkundmuseum	Monge-Sanz - limb obs and forecasts	*Conference dinner at Badisch Brauhaus*			

Bold : invited	
Current and past instruments	virtual
Upcoming missions	virtual
Atmospheric composition	virtual
Aerosols and clouds	virtual
Applications	virtual
POSTERS	
welcome addresses / logistics	

Monday June 2, 2025 Poster session, 15:30-16:30			
Author	#	Title	Session
KELLMANN, Sylvia (KIT IMKASF)	20	*MIPAS IMK/IAA Data Version 8: An Overview*	*Current and past limb and occultation instruments: algorithms, products, validation*
KIEFER, Michael (KIT, IMKASF)	54	*TUNER compliant error reporting for IMK/IAA for MIPAS V8*	*Current and past limb and occultation instruments: algorithms, products, validation*
GLATTHOR, Norbert (KIT, IMKASF)	57	*Version 8 IMK/IAA MIPAS measurements of ClO*	*Current and past limb and occultation instruments: algorithms, products, validation*
TADDIA, Martina (UNIBO-DIFA/CNR-ISAC)	25	*The contribution of EE-11 CAIRT candidate to clouds*	*Upcoming Earth observation limb and occultation instruments*
ROSE, Kristof (BIRA)	10	*ALTIUS Primary Species Retrieval Algorithms in solar occultation mode*	*Upcoming Earth observation limb and occultation instruments*
BERTHELOT, Antonin (BIRA-IASB)	17	*ALTIUS Stellar Occultation Ozone and Aerosol*	*Upcoming Earth observation limb and occultation instruments*
SOTIRIADIS, Sotiris (BIRA-IASB)	48	*ALTIUS Ozone Retrieval Algorithm in Bright Limb Mode Validated using OMPS LP Observations*	*Upcoming Earth observation limb and occultation instruments*
WEIDMANN, Damien (Rutherford Appleton Laboratory)	77	*SOLSTICE, a constellation of cubesat-borne solar occultation limb sounders for atmospheric*	*Upcoming Earth observation limb and occultation instruments*
VON SAVIGNY, Christian (Institut für Physik, Universität Greifswald)	49	*Issues with the retrieval of particle size information*	Aerosol

Thursday June 5, 2025 Poster session, 12:00-13:00			
Author	**#**	**Title**	**Session**
POHL, Christine (Institute of Environmental Studies, University of Bremen, Germany)	44	*Arch effects and retrieval artifacts below the Hunga Tonga plume*	*Aerosol*
OP DE BEECK, Marc (BIRA-IASB)	70	*Review of the stratospheric CAMS products*	Applications
WETZEL, Gerald (KIT, IMKASF)	5	*Transcontinental stratospheric and upper tropospheric measurements with GLORIA-Lite instrument*	Applications
MINGANTI, Daniele (BIRA-IASB)	11	*Anomalous transport in the Northern Hemisphere*	Atmospheric composition (Earth and planets), chemistry and transport
STILLER, Gabriele (KIT, IMKASF)	30	*Seasonality of the tropical pipe position*	Atmospheric composition (Earth and planets), chemistry and transport
VERVALCKE, Sarah (Belgian Institute for Space Aeronomy)	52	*Comparison of mean age of air*	Atmospheric composition (Earth and planets), chemistry and transport
TOSO, Lavinia (School of Physics and Astronomy, University of Leicester, Leicester, UK	75	*Understanding trends and variability in inorganic chlorine*	Atmospheric composition (Earth and planets), chemistry and transport

Monday 2 June		
10:00	*Registration opens*	
11:00	Welcome from KIT IMKASF Director Prof Dr Jan Cermak	
11:10	*Logistics*	
Monday AM-1	**Current and past limb and occultation instruments - 5 reg.** *Chair: Björn-Martin Sinnhuber*	
11:20	Adam Bourassa	OSIRIS on Odin: The End of an Era
11:40	Kaley A. Walker	Latest Validation Results for the Atmospheric Chemistry Experiment (ACE)
12:00	Jörg Gumbel	Odin and Noctilucent Clouds –Thoughts about the Limb Analysis of Inhomogeneous Layers
12:20	Carlo Arosio	Mitigating the impact of surface reflectivity inhomogeneities on limb scattering ozone retrievals from OMPS
12:40	Jeremy Harrison	Recent progress in spectroscopy at the NCEO
LUNCH		
Monday PM-1	**Current and past limb and occultation instruments - 1 inv. + 3 reg.** *Chair: Kaley A. Walker*	
14:00	Linda Megner (invited)	The MATS mission: Locking back and looking forward
14:30	Lukas Krasauskas	3-D tomography for the MATS satellite mission
14:50	Monika Szelag	Mesospheric Ozone and Temperature trends derived using the merged METEOR merged datasets
15:10	Michael Himes	A machine learning approach to retrieving stratospheric water vapor from OMPS LP measurements
BREAK		
POSTER SESSION 15:30 - 16:30		
Monday PM-2	**Current and past limb and occultation instruments - 1 invited + 2 reg.** *Chair: Doug Degenstein*	
16:30	Robert Damadeo (invited)	SAGE III/ISS: Status Update, Science, and New Data
17:00	Natalya Kramarova	Ozone Profile Retrievals from Suomi NPP and NOAA-21 OMPS Limb Profilers: Operational Status and Improvements
17:20	Nigel Richards	Validation of OMPS Limb Profiler Ozone Retrievals

Tuesday 3 June		
8:30	*Logistics*	
Tuesday AM-1	**Current and past limb and occultation instruments - 5 reg.** *Chair: Christian von Savigny*	
8:40	Chris Boone	Aerosols, Trends, and Recent Results for the Atmospheric Chemistry Experiment (ACE)
9:00	Paul Jeffery	Assessment of instrument biases: ozone in the upper troposphere –lower stratosphere
9:20	Pedro Da Costa	Limb temperature observations in the mesosphere with OMPS
9:40	Patrick Sheese	Nearly two solar cycles of ACE-FTS temperatures in the stratosphere to lower thermosphere
10:00	Taran Warnock	The SASKTRAN Radiative Transfer Framework
BREAK		
Tuesday AM-2	**Upcoming Earth observations limb and occultation measurements - 4 inv.** *Chair: Linda Megner*	
10:50	Emmanuel Dekemper (invited)	ALTIUS: mission development status and performance
11:20	Doug Degenstein (invited)	HAWC –The High-altitude Aerosol, Water vapour and Cloud Mission, a Canadian Contribution to the NASA Atmosphere Observing System (AOS)
11:50	Bernd Funke (invited)	The Changing-Atmosphere Infra-Red Tomography Explorer CAIRT –a candidate mission for ESA's Earth Explorer 11
12:20	Daniel Gerber (invited)	Keystone: Exploring the mesosphere and lower thermosphere
LUNCH		
Tuesday PM-1-1	**Upcoming Earth observations limb and occultation measurements - 1 inv. + 1 reg.** *Chair: Jörg Gumbel*	
14:00	Luke Oman (invited)	Stratosphere Troposphere Response using Infrared Vertically-resolved light Explorer (STRIVE) Mission Concept
14:30	Matthew DeLand	The ARGOS Instrument for Stratospheric Aerosol Measurements
Tuesday PM-1-2	**Applications - 2 reg.** *Chair: Jörg Gumbel*	
14:50	Matthias Schneider	Investigating possible contributions of IASI/IASI-NG for briding the upcoming gap of stratospheric water vapour limb-sounding observations
15:10	Nicola Zoppetti	Synergy between atmospheric products with limb and nadir geometries: Comparison between MIPAS+IASI and MIPAS+GOME2 a posteriori fusion
BREAK		
Tuesday PM-2	**Applications - 1 inv. + 3 reg.** *Chair: Emmanuel Dekemper*	
16:00	Karen Rosenlof (invited)	Stratospheric impacts of the Hunga volcanic eruption: Overview and the importance of satellite measurements
16:30	Irina Petropavlovskikh	Understanding ozone-sonde trends and variability in UTLS: Using dynamical coordinates for consistent analysis of UTLS composition
16:50	Daan Hubert	Ground-based assessment of (merged) limb ozone profile data records used by ESA's Climate Change Initiative
17:10	Beatriz Monge-Sanz	How stratospheric composition Limb observations improve weather model forecasts

Wednesday 4 June		
8:30	*Logistics*	
Wednesday AM-1	**Aerosols and clouds - 1 inv. + 4 reg.** *Chair: Susann Tegtmeier*	
8:40	Sergey Khaykin (invited)	Stratospheric composition changes due to extreme events: insights from satellite limb and nadir observations
9:10	Cara Remai	The impact of particle size on OSIRIS aerosol retrievals after the Hunga eruption
9:30	Christian Loens	Aerosol transport of a stratospheric streamer towards high latitudes in spring 2017
9:50	Sandra Wallis	Did the 2022 Hunga eruption impact the noctilucent cloud season in 2023/24 and 2024?
10:10	Sergey Khaykin	Global Stratospheric Aerosol Watch (GSAW) –a web portal for NRT visualization and analysis of satellite and ground-based observations relevant to stratospheric aerosol
BREAK		
Wednesday AM-2	**Atmospheric composition - 1 inv. + 3 reg.** *Chair: Manuel López-Puertas*	
11:00	Kimberlee Dube (invited)	Trends in upper stratospheric temperatures and in the stratopause from satellite limb instruments
11:30	Venus Venugopal	Deciphering QBO and ENSO Influence on Stratospheric Transport with Ozone and Water Vapour from Aura MLS
11:50	Laura Saunders	Using ACE-FTS to assess mixing barrier strength in nudged chemistry-climate models
12:10	Meghan Brehon	Vertical and meridional stratospheric transport calculated from MLS water vapour
LUNCH / AFTERNOON OF FUN / CONFERENCE DINNER		

Thursday 5 June		
8:30	*Logistics*	
Thursday AM-1	**Atmospheric composition - 1 inv. + 4 reg.** *Chair: Didier Fussen*	
8:40	Franck Montmessin (invited)	Occultation and limb Observations of Terrestrial Atmospheres: Mars and Venus as Case Studies
9:10	Viktoria Sofieva	Ozone trends in the stratosphere derived using merged Ozone_CCI datasets
9:30	Oindrila Nath	Sensitivity of interannual and long-term changes in stratospheric ozone to predictor time series and trend model
9:50	Brian Auffarth	Assessment of trend uncertainties for long-term limb profile and total ozone datasets
10:10	Falco Monsees	On the relationship between synoptic events and ozone changes in the Arctic using observations from satellite instruments and the MOSAiC ship campaign
BREAK		
Thursday AM-2	**Atmospheric composition - 3 reg.** *Chair: Adam Bourassa*	
11:00	Susann Tegtmeier	Long-term changes in mean age of air and stratospheric chlorine
11:20	Tobias Kerzenmacher	Using MIPAS Tracer Measurements to Investigate the Quasi-Biennial Oscillation and Mean Meridional Circulation
11:40	Jiansheng Zou	Analyses and comparisons of the ACE-FTS and MIPAS CFC-11, CFC-12 and HCFC-22 data
POSTER SESSION 12:00 - 13:00		
LUNCH		
14:00	Welcome from KIT Vice President Prof Dr Oliver Kraft	
Thursday PM-1	**Aerosols and Clouds - 4 reg.** *Chair: Michael Höpfner*	
14:10	Daniel Zawada	The ALI Aerosol Retrieval Algorithm with Application to OMPS-LP and OSIRIS
14:30	Alexey Rosanov	Accounting for the aerosol particle size distribution in the retrieval of stratospheric aerosol extinction coefficients from OMPS-LP measurements
14:50	Christine Pohl	Aerosol extinction coefficients retrieved from OMPS limb scattering observations: Tackling the differences between three data products (NASA, USASK, UB)
15:10	Kevin Leavor	The Applicability of Machine Learning Techniques to Assessing the Evolution of Stratospheric Aerosol Properties
BREAK		
Thursday PM-2-1	**Aerosols and Clouds - 2 reg.** *Chair: Bernd Funke*	
16:00	Ghassan Taha	Stratospheric Aerosol Perturbations Caused by the 2024 Ruang Eruption
16:20	Nicolas Ernest	Inter-comparison study of stratospheric particle size distribution parameters derived from SAGE III/ISS extinction measurements
Thursday PM-2-2	**Atmospheric composition - 3 reg.** *Chair: Bernd Funke*	
16:40	David Flittner	Stratospheric Aerosol and Gas Experiment observations of stratospheric nitrogen dioxide
17:00	Mary Cate McKee	Using HYSPLIT with SAGE III/ISS Aerosol Observations to Model the Hunga Tonga-Hunga Ha'apai Plume
17:20	Michelle Santee	Chemical Processing and Ozone Loss in the Southern Hemisphere Stratosphere Following the Eruption of the Hunga Volcano

Friday 6 June		
8:30	*Logistics*	
Friday AM-1	**Upcoming Earth observations limb and occultation measurements - 5 reg.** *Chair: Daan Hubert*	
8:40	Felix Friedl-Vallon	The Novel Limb-imaging FTIR Sounder GLORIA-Lite
9:00	Sören Johansson	Airborne demonstration of the CAIRT measurement geometry with GLORIA observations during the ASCCI campaign 2025
9:20	Franziska Trinkl	GLORIA Observations of Dichloromethane and Peroxyacetyl Nitrate Filaments in the UTLS during PHILEAS 2023
9:40	Quentin Errera	Observing System Simulation Experiment of CAIRT limb profiles focusing on UTLS composition
10:00	Stefan Bender	EPP-climate link by reactive nitrogen polar winter descent: Science studies for the EE11 candidate mission CAIRT
BREAK		
Friday AM-2	**Upcoming Earth observations limb and occultation measurements - 3 reg.** *Chair: Gabriele Stiller*	
11:00	Jeffery Langille	Sub-orbital demonstration of coincident aerosol and water vapour measurements with the Aerosol Limb Imager and the Spatial Heterodyne Observations of Water instrument
11:20	Yi Huang	Observability of the lower stratospheric perturbations caused by overshooting convections
11:40	Damien Weidmann	SOLSTICE, a constellation of cubesat-borne solar occultation limb sounders for atmospheric composition profiling - instrument development and qualification
LUNCH / FAREWELL		

virtual	Current and past instruments
virtual	Upcoming missions
virtual	Atmospheric composition
virtual	Aerosols and clouds
virtual	Applications
	POSTERS
	welcome addresses / logistics