ILRC 32

32nd International Laser Radar Conference

Hiroshima, Japan 5-10 July 2026

32nd International Laser Radar Conference (ILRC32)

Program

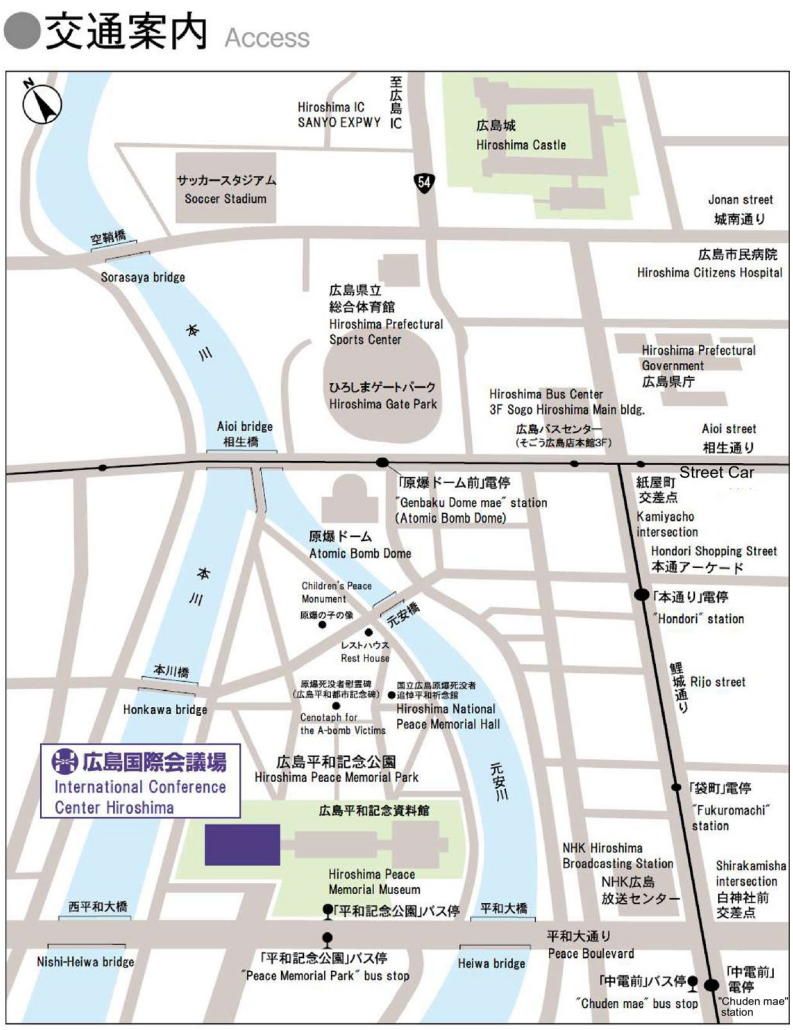
Venue: International Conference Center Hiroshima
Date: 5-10 July 2026
5 July: Lidar Tutorials
6-10 July: Oral and Poster Presentations, Exhibitions

Hosted by:

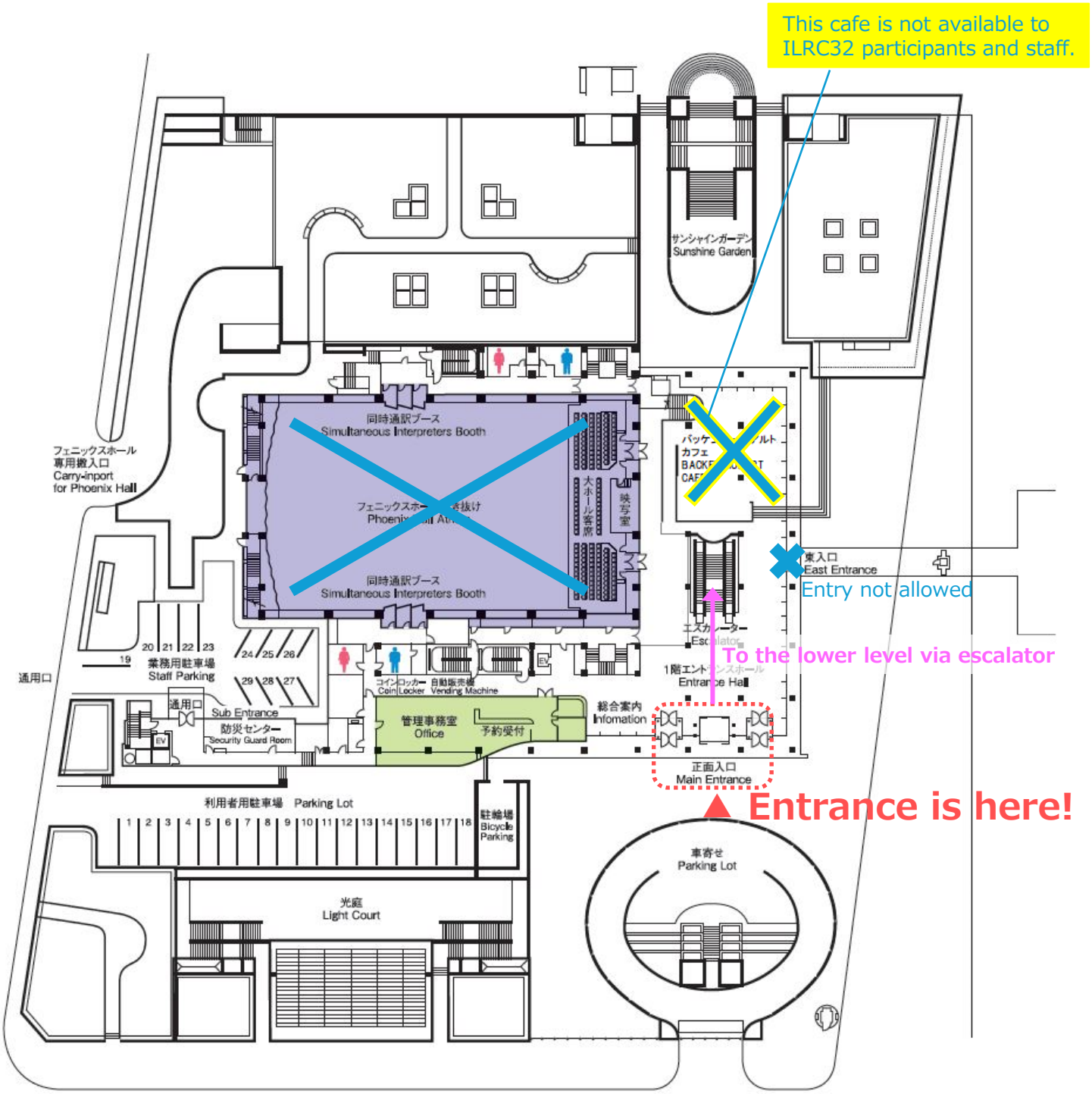
- *Laser Radar Society of Japan (LRSJ)*
- *International Coordination Group on Laser Atmospheric Studies (ICLAS)*
- *Research Institute for Applied Mechanics (RIAM), Kyushu University*
- *National Institute for Environmental Studies (NIES)*
- *Institute for Laser Technology (ILT)*

Venue

International Conference Center Hiroshima



ILRC32 Floor Guide【1F】



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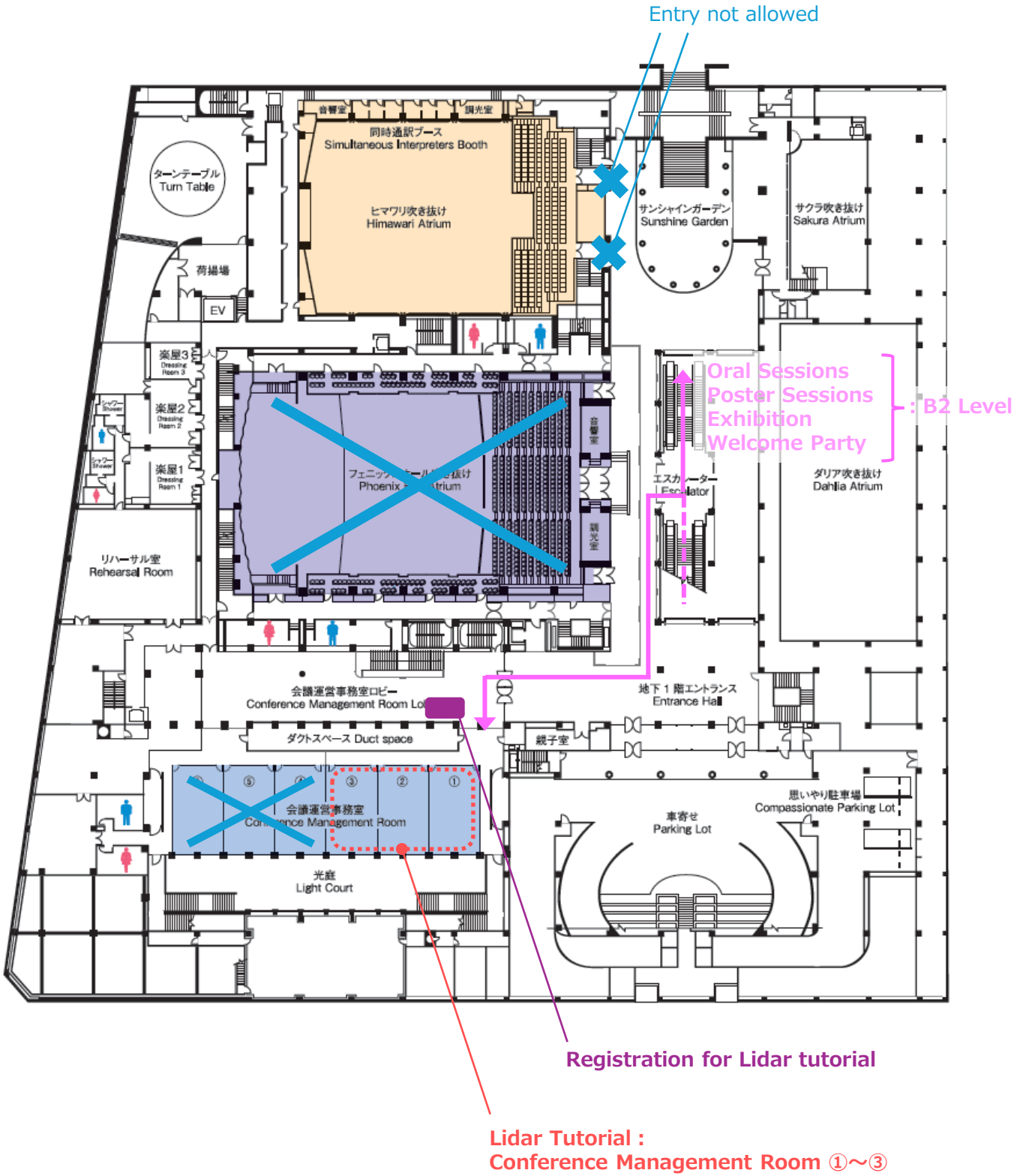

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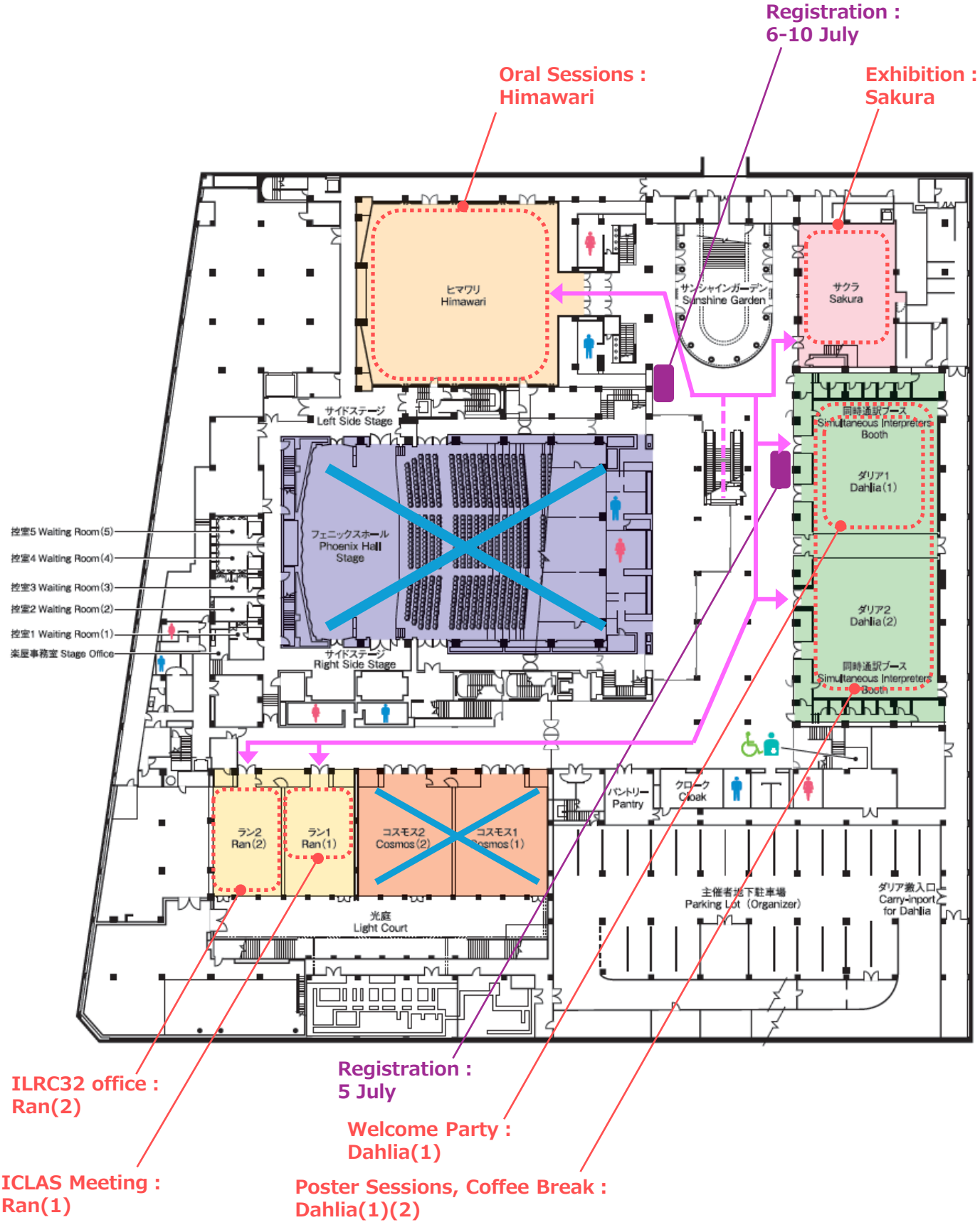


Keynote Speakers

Keynote 1: JAXA Earth Observation Progress and Prospect

Monday, 6 July 2026, from 9:15 to 9:45 AM

Speaker: Osamu Ochiai (Japan Aerospace Exploration Agency)

Biography

Osamu Ochiai plays a leading role in directing JAXA's Earth observation research activities and climate change initiatives, focusing on water cycle management, greenhouse gas (GHG) monitoring, and forest observation. He holds an M.Sc. in Atmospheric Science (Geophysics) from Hokkaido University.

Keynote 2: ATLID: Status of the L1 Processing after 1.5 Years in Orbit

Tuesday, 7 July 2026, from 9:00 to 9:30 AM

Speaker: David Donovan (Royal Netherlands Meteorological Institute (KNMI))

Biography

Dr. David Donovan obtained his Phd. under Dr. Allen Carswell at York University in Toronto, Canada in 1996. The subject of his thesis was lidar measurements of Stratospheric Ozone and Aerosols. in 1998 he arrived at the Royal Netherlands Meteorological Institute (KNMI) where became involved with multi-instrument cloud and aerosol remote sensing. He became a member of the ESA/JAXA Earth Clouds, Aerosol and Radiation Explorer mission advisory group in the early 2000's. He has developed and continues to maintain and improve key aerosol and cloud retrieval algorithms for ATLID (the lidar onboard EarthCARE). In addition, he serves as the co-chair of the ATLID instrument working group responsible for the quality of the ATLID L1 data.

Keynote 3: Improvements and Analysis in the Data Processing and Retrieval Algorithms of ACDL/DQ-1

Tuesday, 7 July 2026, from 2:00 to 2:30 PM

Speaker: Songhua Wu (Ocean University of China)

Biography

Songhua Wu is currently the Deputy Dean of College of Marine Technology, group leader of lidar laboratory at Ocean University of China, Qingdao, which develop the Doppler wind lidar, HSRL, Raman and Polarization LIDAR for marine and atmosphere dynamics and environmental research. He got his PhD degree in 2004 in laser remote sensing. He is the PI of several international and national research projects supported by MOST, NSFC and ESA-MOST, etc. Songhua Wu served as full Professor at OUC since 2010, DAAD visiting senior scientist in German Space Agency DLR/IPA in 2013, and served as Topical Editor for Applied Optics published by OSA. He is the founder of the Leice-Lidar company for meteorology, wind energy and aviation service.

Keynote 4: Emerging Hyperspectral Lidar for Ecology

Wednesday, 8 July 2026, from 9:00 to 9:30 AM

Speaker: Mikkel Brydegaard (Lund University)

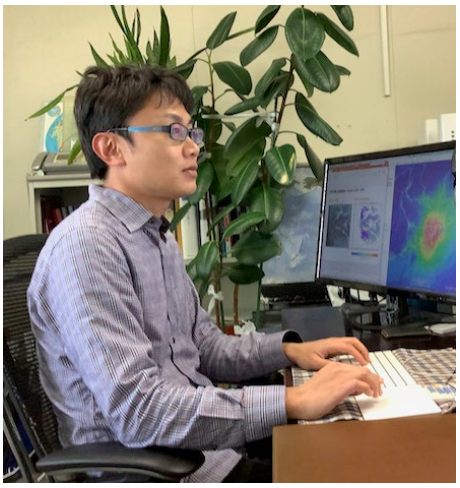
Biography

Mikkel Brydegaard, born Copenhagen 1980. MSc. Electrical Engineering and PhD in Atomic Physics, both from LTH, Lund. Brydegaard is an optical spectroscopist specializing in biophotonics and remote sensing. Hi is the inventor of Scheimpflug lidar, the hyperspectral Scheimpflug lidar, and recipient of the Inaba prize and two European Research Council grants for these topics. In particular he developed entomological lidar and advanced statistical signal analysis which he developed more than a decade. Brydegaard have been active developing physics across West Africa and the Andean nations, he holds several patents and co-founded multiple companies. Currently senior lecturer at Physics Department, Lund, senior researcher at Norsk Elektro Optikk and affiliated research with Biology department in Lund.

Keynote 5: Integrating Ground- and Space-Borne Lidar Observations into Aerosol Data Assimilation: Progress, Challenges, and Perspectives

Thursday, 9 July 2026, from 9:00 to 9:30 AM

Speaker: Keiya Yumimoto (Kyushu University)



Biography

Keiya Yumimoto is a professor at Kyushu University, Japan. His research focuses on atmospheric aerosol modeling, satellite data assimilation, and the integration of lidar and passive satellite observations for understanding aerosol distributions and transport. He has contributed to the development of aerosol reanalysis and forecasting systems using chemical transport models.

Keynote 6: Adventures in Airborne High-Spectral-Resolution Lidar: Combining Atmospheric and Ocean Profiling for Satellite Validation and Science Applications

Thursday, 9 July 2026, from 2:00 to 2:30 PM

Speaker: Chris Hostetler (NASA Langley Research Center)

Biography

Dr. Hostetler is the Senior Scientist for Active Remote Sensing at NASA Langley Research Center and has over 35 years of experience in ground-, aircraft-, and space-based lidar. He received his Ph.D. degree in Electrical Engineering in 1993 at the University of Illinois in Urbana-Champaign, where he conducted mesospheric studies with sodium lidar. He joined NASA in 1993, where he has focused on aerosol, cloud, and ocean lidar technology and measurements, including participation in the development of the CALIPSO space mission, the development and science deployment of airborne high-spectral-resolution lidars, and the advancement of technologies for spaceborne high-spectral-resolution lidars.

Lecturers for Lidar Tutorial

Shoken Ishii (Tokyo Metropolitan University)

Biography

Dr. Shoken Ishii is a Professor in the Department of Aeronautics and Astronautics at Tokyo Metropolitan University, where he leads the Aerospace Fundamental Sensing Laboratory. Since 2020, he has spearheaded research within the Faculty of System Design, focusing on the strategic integration of optical sensing and optical communications for aerospace applications. His work specializes in the research and development of wind lidars, including feasibility studies for space-based Doppler Wind Lidar and the validation of the ESA Aeolus mission. Since earning his Ph.D. from Nagoya University in 2001, Dr. Ishii has consistently driven innovation in the field of optical engineering. Beyond the laboratory, he holds a leadership role as a Director of the Laser Radar Society of Japan (LRSJ). His global influence is further reflected in his service on the Advisory Board for the Coherent Laser Radar Conference (CLRC) since 2018, as well as his tenure as a member of the International Committee for Laser Atmospheric Studies (ICLAS) from 2017 to 2024.

Nobuo Sugimoto (National Institute for Environmental Studies)

Biography

Nobuo Sugimoto currently is a visiting researcher at the National Institute for Environmental Studies (NIES) of Japan. He received a Bachelor of Engineering and a Master of Engineering from Osaka University, and received his Ph.D. in Science from the University of Tokyo in 1985. His achievements at NIES include the development of a stratospheric ozone lidar; laser long-path absorption experiments for trace gas measurements; the construction of the aerosol lidar network in East Asia (AD-Net). His recent work focuses on the validation of EarthCARE ATLID using AD-Net.

Hiroaki Kuze (Chiba University)

Biography

Hiroaki Kuze is currently a professor emeritus at Chiba University in Japan. He received his Dr.Sc. degree in physics from the University of Tokyo in 1982. After working at Shizuoka University, he began studying remote sensing at the newly established research center, CEReS (the Center for Environmental Remote Sensing) at Chiba University. He served as the director of CEReS from 2010 to 2014 and from 2018 to 2020. From 2014 to 2016, he served as president of the Remote Sensing Society of Japan (RSSJ). His achievements at CEReS include publications on the topic of optical remote sensing of the atmospheric environment, including lidar observations of aerosols in relation to in situ and satellite observations.

Scott Spuler (National Center for Atmospheric Research)

Biography

Scott Spuler is a Senior Engineering Scientist at the National Center for Atmospheric Research (NCAR) in Boulder, Colorado. He has over 20 years of experience in the design and development of lidar instrumentation for atmospheric research. His work in lidar engineering covers a range of techniques, including the development of volume-imaging aerosol lidar and airborne Doppler lidar for wind measurement. His recent research focuses on the advancement of Differential Absorption Lidar (DIAL) and High Spectral Resolution Lidar (HSRL) techniques. He has specifically led the development of micro-pulse, diode-laser-based architectures designed for autonomous, continuous profiling of water vapor, temperature, and aerosols. Spuler's work centers on transitioning complex laser-based remote sensors into robust, high-duty-cycle instruments for long-term field observations.

Andreas Behrendt (University of Hohenheim)

Biography

Andreas Behrendt is presently an Akademischer Oberrat (associate professor) at the University of Hohenheim, Institute of Physics and Meteorology in Stuttgart, Germany. There, he serves as head of the remote sensing group. He is also the co-founder and CEO of Purple Pulse Lidar Systems, the first company to sell a lidar system which exceeds the WMO breakthrough requirements for water-vapor and temperature measurements in the lower troposphere. Previously, he was a postdoctoral researcher at the University of Hohenheim, a postdoctoral researcher at the Radio Atmospheric Science Center for Space and Atmosphere at Kyoto University, Japan, and a researcher at the GKSS Research Center in Geesthacht, Germany. Dr. Behrendt received his Doctoral degree in natural sciences and his Diploma degree in physics both from the University of Hamburg, Germany.

Conference Schedule

5 July (Sunday)		6 July (Monday)	7 July (Tuesday)	8 July (Wednesday)	9 July (Thursday)	10 July (Friday)
	8:30	Registration open				
	9:00-10:30	Opening Ceremony Oral session	Oral session	Oral session	Oral session	Oral session
	10:30-11:00	Coffee break				
Registration 13:00-20:00	**11:00-12:30**	Oral session	Oral session	Oral session	Oral session	Oral session
Lidar tutorials 10:00-18:00	**12:30-14:00**	Lunch		Group Photo (12:00-12:30) Excursion (12:30-17:30) Banquet (17:30-20:30)	Lunch	Lunch ICLAS meeting
ICLAS meeting 15:00-17:00	**14:00-15:30**	Oral session	Oral session		Oral session	Closing Ceremony
Welcome party 18:00-20:00	**15:30-16:00**	Coffee break			Coffee break	
	16:00-17:30	Oral session	Oral session		Oral session	**ILRC32 futsal game** (16:30-18:30)
	17:30-20:00	Poster Session	Poster Session		Poster Session	

Sunday, 5 July 2026

Lidar Tutorial		
10:00 – 10:15	Welcome and Opening Remarks	Hajime Okamoto
10:15 – 10:35	Introduction	Shoken Ishii
10:35 – 11:15	Basic tutorial 1: Lidar equation, Mie-lidar inversion methods, etc., for tropospheric aerosol measurements	Nobuo Sugimoto
11:15 – 11:55	Basic tutorial 2: Rayleigh and Mie scattering, aerosol composition, lidar vs. sampling data, typical aerosol models, and related topics	Hiroaki Kuze
12:00 – 13:30	Lunch Break	
13:30 – 14:30	Polarization Lidar	Nobuo Sugimoto
14:30 – 15:30	DIAL and HSRL	Scott Spuler
15:30 – 16:00	(Break)	
16:00 – 17:00	Wind Lidar	Shoken Ishii
17:00 – 18:00	Raman Lidar	Andreas Behrendt

15:00-17:00 ICLAS meeting

18:00-20:00 Welcome Party

Monday, 6 July 2026

9:00-9:15 Opening Ceremony

Hajime Okamoto (Research Institute for Applied Mechanics, Kyushu University), Fred Moshary (City College of New York)

Keynote 1

9:15 – 9:45	Keynote 1	JAXA Earth Observation Progress and Prospect	Osamu Ochiai(Japan Aerospace Exploration Agency)

Session O1
Advances in lidar techniques and methodologies

Chairpersons: Daisuke Sakaizawa (JAXA), Yoshitaka Jin (National Institute for Environmental Studies), Dave Donovan (KNMI)

9:45 – 10:45	O1-1	GENERALIFE: Synergistic Raman Lidar and Fluorescence Spectroscopy for Enhanced Aerosol Typing	Maria Soledad Fernandez-Carvelo(IISTA, University of Granada, Spain)
	O1-2	Design and construction of a hyperspectral Scheimpflug Raman lidar for aerosolized soot ranging and characterization	Kim Cuong Le(Lund University)
	O1-3	Raman Source Using A Hollow-Core Fiber For Ozone Monitoring In The Lower Troposphere	Joris Weinzaepflen(CIMEL Electronique)
	O1-4	Dual-wavelength High Spectral Resolution Lidar	Ilya Razenkov(University of Wisconsin - Madison)

(10:45-11:15 Coffee Break)

Session O1
Advances in lidar techniques and methodologies

Chairpersons: Daisuke Sakaizawa (JAXA), Yoshitaka Jin (National Institute for Environmental Studies), Dave Donovan (KNMI)

11:15 – 12:30	O1-5	Spectrometric fluorescence and Raman lidar at ARTE site for advanced tropospheric studies	Giovanni Giuliano(Institute of Marine Sciences, (CNR-ISMAR))
	O1-6	High-Spectral-Resolution Lidar Using Multimode Laser for Measuring Aerosol Fine-Scale Distribution	Yoshitaka Jin(National Institute for Environmental Studies)
	O1-7	Advancements and Performance Modeling of Diode-Laser-Based High Spectral Resolution Lidar	Bryce Garby(NSF NCAR)
	O1-8	Laboratory Measurement of the Depolarization Ratio of Fine Mode Aerosol Particles for Lidar Applications	Esha Semwal(Leibniz Institute for Tropospheric Research, Leipzig, Germany)
	O1-9	Tackling the spectral slope of the particle depolarization ratio for mineral dust	Moritz Haarig(Leibniz Institute for Tropospheric Research (TROPOS), Germany)

(12:30-14:00 Lunch)

Session O1
Advances in lidar techniques and methodologies

Chairpersons: Daisuke Sakaizawa (JAXA), Yoshitaka Jin (National Institute for Environmental Studies), Dave Donovan (KNMI)

14:00 – 15:30	O1-10	MicroPulse DIAL: Integrating Advanced Processing and Multi-Pulse-Length Technology for Next-Generation Thermodynamic Profiling	Scott Spuler(NSF National Center for Atmospheric Research)
	O1-11	Development of aerosol composition product from EarthCARE/ATLID	Rei Kudo(Meteorological Research Institute, Japan Meteorological Agency)
	O1-12	Introducing A Deep Learning Approach to Atmospheric Lidar Denoising	Willem Marais(SSEC, University of Wisconsin Madison)
	O1-13	Efficient Near-Infrared Lidar for Weak Aerosol and Thin Cloud Detection Using Superconducting Nanowire Single-Photon Detectors	Weijie Zou(Wuhan University)
	O1-14	Car lidars for monitoring rotating wind turbine blades	Liqin Jin(Technical University of Denmark)
	O1-15	Development of an Ultra-Violet Rayleigh Temperature Lidar System Using a Resonant Cesium Filter	Robert Randolph(Texas A&M University)

(15:30-16:00 Coffee Break)

Session O2
Coherent and incoherent wind lidar technologies and applications

Chairpersons: Upendra Singh (NASA Langley Research Center), Fabien Gibert (LMD/CNRS, Ecole Polytechnique, France)

16:00 – 17:15	O2-1	UV electro-optic frequency comb compatibility with dual-wave interferometer for high altitude wind lidar	Jonathan Franck Pouillaude(DOTA, ONERA)
	O2-2	Development of a Coherent Doppler Wind Lidar using Long-Duration Frequency-Modulated Waveforms	Shoken Ishii(Tokyo Metropolitan University)
	O2-3	High-speed near-field measurements in a wind tunnel using Coherent Doppler Lidar	William Patino(ONERA, France)
	O2-4	532 nm heterodyne high-spectral-resolution Doppler lidar: Signal calibration, validation, and remaining challenges	Felix Fritzsch(Leibniz Institute for Tropospheric Research (TROPOS))
	O2-5	Doppler Lidar Development and Measurements from Moving Airborne and Ground-based Platforms for Boundary Layer Science	Brian Carroll(CIRES, University of Colorado Boulder, U.S.)

(Break)

17:30-20:00 Poster Flash Talk: P-001– P-061

Poster Session 1

17:30 – 20:00	P-001	Development of Water Vapor Differential Absorption Lidar Using Superconducting Nanostrip Single-photon Detector	Makoto Aoki(National Institute of Information and Communications Technology)
	P-003	Ground Based Demonstration of an Airborne Temperature High Spectral Resolution Lidar	Madison Hetlage(NASA Postdoctoral Program, Oak Ridge Associated Universities)
	P-004	A Multi-Wavelength Lidar for Aerosol, Cloud, and Thermodynamic Profile Measurements	Tong Lu(Wuhan University)
	P-006	Raman LIDAR project for CTAO-North	Darko Kolar(University of Nova Gorica, Slovenia)
	P-008	SHORT-WAVE INFRARED HYPERSPECTRAL ATMOSPHERIC LIDAR WITH A SUPERCONTINUUM LIGHT SOURCE	Hugo Engman(Department of Physics, Lund University)
	P-009	Chemical Characterization of Atmospheric Dust with Spectroscopic Lidar	Avinash Yadav(University of Hertfordshire, UK)
	P-010	Ammonia Visualization with UV Absorption Imaging Lidar	Yuji Ichikawa(Shikoku Research Institute)
	P-011	Development of a Compact Lidar for Trace Ammonia Measurement Using the Resonance Raman Effect	Masakazu Ogita(Shikoku Research Institute Inc.)
	P-012	Remote sensing of H2S using lidar-integrated TDLAS	Keito Arifuku(Mitsubishi Electric Corporation)
	P-013	Flash IPDA Lidar for Two-Dimensional Humidity Distribution Measurement	Kazuki Sato(Tokyo Metropolitan University)
	P-014	Research on Remote Detection of Explosives Using the Resonant Raman Effect	Takehiro Kawasaki(Shikoku Research Institute)
	P-015	Single Aperture, Mirror Based Optical System Enabling Deep-Ultraviolet Spectroscopy and Lider for Remote Hazardous Substance Detection	Shuzo Eto(Central Research Institute of Electric Power Industry)
	P-016	Long-range and High-resolution LiDAR based on a Stacked SPAD Depth Sensor for Automotive LiDAR Applications	Shunpei Suzuki(Sony Semiconductor Solutions Corporation)
	P-017	Consideration of Scattering Characteristics on LED mini-lidar	Tatsuo Shiina(Chiba University)
	P-018	Advances on Automation of Wavelength Tuning for High Spectral Resolution Lidar	Facundo Nahuel Galvagno(Argentine National Meteorological Service (SMNA))
	P-019	New acquisition system for continuous ultrafine-resolution lidar	Iwona Stachlewska(University of Warsaw, Faculty of Physics)
	P-020	Laser beam intensity distribution measured on a 1064 lidar system with a triggered camera	Nikolaos Siomos(Ludwig-Maximilians University of Munich, Germany)
	P-021	Optimal Slant Angle for Spaceborne Doppler Wind Lidar: A Sensitivity Study for Horizontal Line-of-Sight Wind Measurements	Trismono Candra Krisna(European Space Agency (ESA))
	P-023	Ultra-high-resolution Doppler lidar utilizing CDMA technology	kuniaki higashi(MetroWeather)
	P-025	Development of 2 μm short-coherence Doppler lidar for high resolution wind sensing	Kosuke Okubo(National Institute of Information and Communications Technology)
	P-027	Development of a Ho:YLF Ring Laser Intracavity-Pumped by a Standing-Wave Tm:YLF Laser	Atsushi Sato(Tohoku Institute of Technology)

P-028	Maturation of UV molecular wind lidar in the UPWing project: status and test at the Zugspitze (3000 m altitude)	David Michel(ONERA (the French Aerospace Lab), France)
P-029	Feasibility of Measuring Vertical Wind Speed in Clouds Using a Direct Detection Doppler Lidar with an Iodine Absorption Filter	Nobuo Sugimoto(National Institute for Environmental Studies)
P-030	Signal-to-noise ratio increase in coherent Doppler wind lidar using increased SBS threshold, compression gradient fiber amplifier	Laurent Lombard(ONERA/DOTA, Université Paris Saclay, F-91123 Palaiseau, France)
P-031	Autocorrelation-Based Conceptual Methods for Averaged Radial Velocity Variance Estimation Using Pulsed Doppler Lidars	Mohammadreza Manami(Technical University of Denmark)
P-032	Wind Retrieval According to Beam Geometry in Doppler Vertical Lidar	ANSEOK YU(Pukyong National University)
P-033	Roadmap for Lidar-Derived Aerosol Fluxes in the Urban Atmospheric Boundary Layer Across European Cities	Lucja Janicka(University of Warsaw)
P-035	Actual wind field measurement using Low Coherence Doppler Lidar	Yudai Hara(Chiba Univ.)
P-037	Lidar-derived non-equilibrium turbulence decay in the atmospheric boundary layer	Iwona Stachlewska(University of Warsaw, Faculty of Physics)
P-038	Multi-Sources Observational Analysis of Wind Field Evolution within the Atmospheric Boundary Layer During the Transit of Typhoon Doksuri	Xiaoye Wang(Qingdao Institute of Marine Meteorology) (Cancelled)
P-039	Mobile and Fixed Doppler Wind Lidars Reveal Lee-Vortex Control on Boundary-Layer Height over Southwestern Taiwan	Wei-Nai Chen(Research Center for Environmental Changes, Academia Sinica)
P-044	Water Vapor DIAL for Improving Forecast Skill of Stationary Linear Mesoscale Convective Systems: Development, Adjustment, and Experimental/Field Observations	Masahide Nishihashi(Meteorological Research Institute)
P-045	Notable Characteristics of Three-Wavelength CO2 DIAL for Stable Temperature Measurement in the Lower Atmosphere	Yasukuni Shibata(Tokyo Metropolitan University)
P-046	Development and Validation of a Prototype MicroPulse DIAL for Simultaneous Water Vapor and Temperature Profiling	Yuichi Uchiho(EKO Instruments)
P-047	Validation of Ship-based Coherent DIAL for Simultaneous Measurement of Water Vapor and Wind Vertical Distribution	Tetsu Sakai(Meteorological Research Institute, Japan Meteorological Agency)
P-048	First demonstration of an offshore field experiment using a coherent differential absorption lidar for simultaneous measurement of wind and water vapor	Takahiro Suzuki(Mitsubishi Electric Corporation)
P-049	Calibration of Raman Lidar water vapor profiles by radiosonde meteorological data and AERONET photometer observations	Georgia Peletidou(Aristotle University of Thessaloniki)
P-050	Comparison of Water Vapor Vertical Profiles Observed by Ground-based Raman Lidar and Microwave Radiometer	Eiji Oikawa(Meteorological Research Institute)
P-051	Towards Automated Long-Term Accurate Water Vapour Monitoring Using Raman Lidar	Arlett Diaz-Zurita(Andalusian Institute for Earth System Research (IISTA-UGR))
P-052	Towards Operational Monitoring of Tropospheric Water Vapour with the Dual-Field Raman Lidar ALHAMBRA	Victor M Naval-Hernandez(Andalusian Institute for Earth System Research (IISTA-UGR))
P-053	Preliminary results from the Lidar-based Atmospheric Measurement at Pianosa (LAMP) field campaign	Marco Di Paolantonio(Institute of Marine Sciences (CNR-ISMAR))
P-054	Evaluation of Temperature and Water Vapor Profiles from a Mesoscale Model Using Raman Lidar Observations over the Western Coast Islands of Kyushu	Kazuto Matsuki(EKO Instruments Co., Ltd.)
P-055	Error induced by aerosol spectral attenuation differences in temperature and water vapor retrievals for Raman lidar	Zhenping Yin(Wuhan University)
P-057	Study of a micro-joule Raman lidar for airborne temperature and density measurements	Gabriel Cynober(ONERA, DOTA)
P-059	Noise Reduction of Satellite-Borne Lidar Signals Using a Two-Stage CAENN with Unsupervised Learning	Shuhei Kamogawa(Tokyo Metropolitan University)
P-061	Comparison of Cloud Top Height Retrieval Methods from EarthCARE/ATLID: Operational Product versus Deep Learning–Based Semantic Segmentation	Adrian Canella-Ortiz(IISTA - University of Granada)

Tuesday, 7 July 2026

Keynote 2

9:00 – 9:30	Keynote 2	ATLID: Status of the L1 Processing after 1.5 years in Orbit	David Donovan(Royal Netherlands Meteorological Institute (KNMI))

Session O3
Space-based lidar applications in Earth science and planetary exploration and studies

Chairpersons: Hajime Okamoto (Research Institute for Applied Mechanics, Kyushu University), Paolo Di Girolamo (Department of Heath Sciences, University of Basilicata) , Ulla Wandinger (Leibniz Institute for Tropospheric Research (TROPOS))

9:30 – 10:30	O3-1	Study of stratospheric aerosols from wildfires and volcanic eruptions using CALIPSO and ground-based lidars.	Oceane Soares(Sorbonne Université)
	O3-2	Aerosol Optical Properties of the 2022 Hunga Plume Using CALIOP	Clair Duchamp(Laboratoire de Météorologie Dynamique (LMD-IPSL))
	O3-3	Stratospheric aerosols from volcanic eruptions and wildfires observed by EarthCARE/ATLID and ground-based lidars	Sergey Khaykin(LATMOS/IPSL, UVSQ, Sorbonne Université)
	O3-4	Long-term (2006–2023) Trends and Zonal Variations in Tropospheric Aerosols from CALIPSO	Kwonho Lee(Kangwon National University)

(10:30-11:00 Coffee Break)

Session O3
Space-based lidar applications in Earth science and planetary exploration and studies

Chairpersons: Hajime Okamoto (Research Institute for Applied Mechanics, Kyushu University), Paolo Di Girolamo (Department of Heath Sciences, University of Basilicata) , Ulla Wandinger (Leibniz Institute for Tropospheric Research (TROPOS))

11:00 – 12:30	O3-5	Comparison of EarthCARE Products A-ICE and ACM-CAP with the Results of CiPPRaL, a Lidar-only Retrieval Method Based on Ice Water Content Measurements	Jens Reichardt(Deutscher Wetterdienst /)
	O3-6	EarthCARE cloud products from ATLID, CPR and MSI	Hajime Okamoto(Research Institute for Applied Mechanics, Kyushu University)
	O3-7	EarthCARE/ATLID ice habits and microphysics retrieval	Kaori Sato(Research Institute for Applied Mechanics, Kyushu University)
	O3-8	PERCUSION – Persistent EarthCARE underflight studies of the ITCZ and organized convection	Silke Gross(German Aerospace Center (DLR))
	O3-9	Ground-Based Sunphotometer and Lidar Assessment of EarthCARE Aerosol Products from MSI and ATLID	Aspasia Pallikaridou(ERATOSTHENES Centre of Excellence)
	O3-10	From EarthCARE Aerosol Classification to Global CCN and INP Concentrations	Ulla Wandinger(Leibniz Institute for Tropospheric Research (TROPOS))

(12:30-14:00 Lunch)

Keynote 3

14:00 – 14:30	Keynote 3	Improvements and analysis in the data processing and retrieval algorithms of ACDL/DQ-1	Songhua Wu(College of Marine Technology, Ocean University of China)

Session O3
Space-based lidar applications in Earth science and planetary exploration and studies

Chairpersons: Hajime Okamoto (Research Institute for Applied Mechanics, Kyushu University), Paolo Di Girolamo (Department of Heath Sciences, University of Basilicata) , Ulla Wandinger (Leibniz Institute for Tropospheric Research (TROPOS))

14:30 – 15:15	O3-11	Recent Comparisons of NASA and ESA Satellites using NASA LaRC's Second Generation High Spectral Resolution Lidar	Johnathan Hair(Coherent Applications Inc - Psionic LLC)
	O3-12	Determining Cloud Particle Types During the IMPACTS Field Campaign Using a Probabilistic Classification Framework	Joseph Finlon(University of Maryland)
	O3-13	Linking Aeolus Instrument Performance and Wind Data Quality: Assessment of the First Doppler Lidar Mission in Space	Oliver Lux(German Aerospace Center)

15:15-15:30 Poster Flash Talk: P-062–P-076

(15:30-16:00 Coffee Break)

Session O3
Space-based lidar applications in Earth science and planetary exploration and studies

Chairpersons: Hajime Okamoto (Research Institute for Applied Mechanics, Kyushu University), Paolo Di Girolamo (Department of Heath Sciences, University of Basilicata) , Ulla Wandinger (Leibniz Institute for Tropospheric Research (TROPOS))

16:00 – 17:15	O3-14	Cluster analysis of fluorescence lidar observations in South China	Zhekai Li(Nanjing University of Information Science and Technology)
	O3-15	From Aeolus to EPS-Aeolus: Performance investigations with End-to-End simulations	Stefanie Knobloch(German Aerospace Center (DLR))
	O3-16	Development of MOLI flight model	Daisuke Sakaizawa(JAXA)
	O3-17	LUCE: A multi-disciplinary space lidar mission for Earth Sciences	Paolo Di Girolamo(Department of Health Sciences, University of Basilicata)
	O3-18	Conceptual Study Overview of JAXA's Satellite-based LiDAR Altimeter Mission	Ko Hamamoto(Japan Aerospace Exploration Agency)

(Break)

17:30-20:00 Poster Flash Talk: P-077– P-123, P-150, P-160

Poster Session 2

17:30 – 20:00	P-062	Monitoring Long-Range Wildfire Smoke Plumes Using Aerosol Layer Height: Synergy of EarthCARE/ATLID and LEO/GEO Passive Satellite Observations	Konstantinos Michailidis(Aristotle University of Thessaloniki, Greece)
	P-064	Synergistic Ground-Based Retrieval of Radiative Properties of Natural and Contrail-Induced Cirrus Clouds over Toulouse, France	Andres Bedoya(ONERA)
	P-065	Assessing Aerosol and Cloud Geometrical Features and Types over the Mediterranean: Insights from CALIPSO, CLOUDSAT and EarthCARE Missions	Kalliopi Artemis Voudouri(National Observatory of Athens)
	P-066	The lidar ratio from space – ATLID observations of a stratospheric smoke plume	Moritz Haarig(Leibniz Institute for Tropospheric Research (TROPOS), Germany)
	P-067	Optical characterization of Asian dust–biomass-burning aerosol mixtures during the March 2025 South Korean wildfire event using ATLID, ground-based HSRL, and numerical simulations	Yukari Hara(Research Institute for Applied Mechanics)
	P-068	Evaluation of the JAXA L2 Algorithms for Retrieving Aerosol and Cloud Properties from the Space-borne Lidar ATLID	Tomoaki Nishizawa(National Institute for Environmental Studies)
	P-069	Exploring Near-Range and Sensitivity Trade-Offs in Diode-Laser-Based DIAL using Multi-Pulse-Length Observations	Robert Stillwell(NSF National Center for Atmospheric Research)
	P-070	EarthCARE ATLID L2 products vs. lidar-derived optical properties of aerosols and ice clouds from El Arenosillo station (Southwestern Iberian Peninsula): First validation results regarding different baselines	Noe Rodriguez-Rivas(Instituto Nacional de Tecnica Aeroespacial (INTA))
	P-071	Ground Track Verification of the Atmospheric Lidar Onboard EarthCARE Using Ground-Based Astroparticle Observatories	Oliver Lux(German Aerospace Center)
	P-072	ATLID and ACDL intercomparison over the PANGEA station	Andreas Karipis(IAASARS, National Observatory of Athens, Greece)
	P-074	Snow Depth Retrieval From ICESat-2 Lidar	Xiaomei Lu(NASA)
	P-075	Enhancing ICESat-2 Atmospheric Capabilities Through a New Research Data Product	Kenneth Christian(University of Maryland)
	P-076	Multi-Photon Counting with MPPCs for Space-borne LiDAR: Detection Performance and Readout Circuit Design	Tsugumi Sakae(Japan Aerospace Exploration Agency)
	P-077	Profiling Water Vapor in Low Atmosphere on Mars	Zhaoyan Liu(NASA Ames Research Center)
	P-078	Assessment of the multi-scattering correction in cirrus clouds for the ATLID space-borne lidar using airborne measurements during the PERCUSION field campaign	Martin Wirth(German Aerospace Center DLR)
	P-079	An airborne thermo-hygrometric Raman lidar in the framework of MAESTRO	Patrick Chazette(Laboratoire des Sciences du Climat et de l'Environnement (LSCE))
	P-080	17 years of lidar research on board the UK's FAAM Airborne Laboratory	Hugo Ricketts(National Centre for Atmospheric Science)

P-083	Synergistic lidar and satellite observation of ozone, aerosols and transport impacts on air quality during a heat-wave period in the New York City area	Fred Moshary(City College of New York, New York, NY, USA)
P-084	ACTRIS: A Pan-European Research Infrastructure for Harmonised Lidar Observations and Beyond	Giulia Saponaro(ACTRIS ERIC)
P-085	TAMARIN: an automated Rayleigh-Mie-Raman lidar to monitor water vapor and aerosols up to the tropical stratosphere from Reunion Island (21,1°S) for ACTRIS	Julien Totems(LSCE (CEA-CNRS-UVSQ))
P-086	Investigating the Effects of Multiple Scattering in Cirrus Clouds in ACTRIS-SCC Retrievals for the Validation of ATLID L2 Optical Products	Diego Alves Gouveia(Royal Netherlands Meteorological Institute (KNMI))
P-087	Lidar Processing Pipeline Software for Elastic Lidar Retrieval in LALINET network	Juan Vicente Pallotta(CITEDEF (UNIDEF-MINDEF))
P-088	EARLICOST - European Atmospheric Research LIdar COoperation on Science and Technology	Iwona Stachlewska(University of Warsaw, Faculty of Physics)
P-089	Regional Aerosol Lidar Ratios in East Asia: Long-Term Characterization Using Sky Radiometer Constraints	Man-Hae Kim(Seoul National University)
P-090	China Aerosol Raman Lidar Network: Multi- station Observations of Mongolian Dust Transport	Yubin Wei(Wuhan University)
P-091	Estimation of the Total Dust Mass in the Taklimakan Desert by the MECF method	Kenji Kai(Graduate School of Environmental Sciences, Nagoya University)
P-092	Development of the GAONet segment in Tomsk: from operational analysis to a unified software architecture	Natalia Kustova(V.E. Zuev Institute of Atmospheric Optics SB RAS)
P-093	Arctic Tropospheric and Stratospheric Wind Field Observations by a Compact Mobile Multi-field of View Doppler Lidar	Pablo Saavedra Garfias(Leibniz Institute of Atmospheric Physics)
P-094	Precise Ozone Profiling with Differential Absorption Lidar Advanced Correction of Temperature and Atmospheric Transmittance	xiangyu dong(Wuhan University)
P-095	Accurate Ozone Profiling with Differential Absorption Lidar, Detection-Wavelength Optimization and Spectral-Attenuation Correction	xiangyu dong(Wuhan University)
P-096	Landfill Methane Measurement using an Integrated DIAL-Drone System based on the Targeting Method	Yunki Mun(Pukyong National University)
P-097	Advanced Mid-Infrared KTA Optical Parametric Oscillator DIAL for Urban Methane Monitoring and Diurnal Dynamics	Taieb Gasmi(Saint Louis University-Madrid Campus)
P-098	Development of the Portable Scanning DIAL for CO2 Emission observation of Large-Scale Sources	Makoto Abo(Tokyo Metropolitan University)
P-102	Detection of Benzene Emission Sources in Petrochemical Complexes using mobile DIAL	SEOGJUN KIM(Pukyong National University)
P-103	Development of a gas visualization system using near-infrared absorption technique	Toshihiro Somekawa(Institute for Laser Technology)
P-105	Normalized Na-Density Monthly-Composite Method for Revealing Hidden Ionosphere–Thermosphere–Mesosphere (ITM) Structures with Na Doppler Lidar Observations over Boulder	Yingfei Chen(University of Colorado Boulder)
P-106	A Rapid and High-Precision Bisection-Based Iterative Algorithm for Retrieving Temperature and Wind from Sodium Wind/Temperature Lidar Data	Xu Zou(Hainan Normal University)
P-107	Saturation Effects in Ca/Ca+ Resonance Lidar Measurements	Christopher Geach(German Aerospace Center (DLR))
P-108	Temperature and velocity observations of Ca and Ca+ in the MLT with a Ti:sapphire resonance scattering lidar	Ayaka Hashimoto(University of Electro-Communications)
P-113	Development of reflection high-energy electron diffraction and infrared reflection absorption spectroscopy for characterization of vapor-deposited ice under mesospheric temperature and water vapor conditions	Reo Sato(Tokushima University)
P-114	OCEAN project: Ocean Color EarthCARE ANalysis	Davide Dionisi(Italian National Research Council - Institute of Marine Sciences)
P-115	Ocean Lidar Study (OLiS): A future blue-green oceanic lidar space mission	Cedric Jamet(LOG)
P-116	Oceanic Capabilities of the Luce Lidar Mission	Lorenza Masi(Università di Napoli "Parthenope")
P-117	Time-Resolved Monte Carlo-Based Framework for Oceanic Lidar	Tycjan Kossowski-Kolodziej(University of Warsaw, Institute of Geophysics)
P-118	Full-Link Modeling and Numerical Analysis of Underwater LiDAR Using Optical Vortex	Yifan Zhou(Hubei University)

	P-119	Measurement of Raman Scattering from Dissolved CO2 in Seawater and Development of sea-drone based Compact Lidar	Seiya Okamura(Chiba University)
	P-120	Remote Measurements of CO2 Dissolved in Water Using Hyperspectral Raman Imaging Lidar	Shusuke Isogai(Institute for Laser Technology)
	P-121	Active Fluorescence LiDAR for Marine Plastic Litter Detection Using Laser-Diode Excitation and Machine Learning	Jumar Cadondon(University of the Philippines Visayas)
	P-122	Advancement of pollen period in Seoul: Evidence from two decades of ground-based polarization lidar observations	Wooijn Hwang(Seoul National University)
	P-123	Detection and Vertical Profiling of Airborne Pollen Using Fluorescence Lidar Measurements	Georgia Peletidou(Aristotle University of Thessaloniki)

Wednesday, 8 July 2026

Keynote 4			
9:00 – 9:30	Keynote 4	Emerging Hyperspectral Lidar for Ecology	Mikkel Brydegaard(Lund University)

Session O4
Forest, ocean, land surface and biological lidar applications

Chairpersons: Toshihiro Somekawa (Institute for Laser Technology) , Natalie Midzak (NASA NPP)

9:30 – 10:30	O4-1	Assessing the Ocean Color Capabilities of an Airborne Atmospheric Lidar	Rafael Avila Simao(LOG)
	O4-2	Compact Dual-Band Entomological Lidar for Biodiversity Assessment	Timotej Zuntar(Lund University)
	O4-3	The Concurrent Artificially-intelligent Spectrometry and Adaptive Lidar System (CASALS)	John Yorks(NASA Goddard Space Flight Center)
	O4-4	A Synergy of Six Scanning Lidars for Studying Land-Atmosphere Feedback Processes	Andreas Behrendt(University of Hohenheim)

(10:30-11:00 Coffee Break)

Session O5
Lidar observations in the mesosphere and thermosphere

Chairpersons: Xinzhao Chu (University of Colorado Boulder), Takuji Nakamura (National Institute of Polar Research)

11:00 – 12:00	O5-1	Advanced Lidar Measurements of Mesospheric Aerosols and Space Debris Smoke: Operational Status and Future Deployment	Thorben Hendrik Lueke-Mense(Leibniz Institute of Atmospheric Physics)
	O5-2	Observations of Atmospheric Waves above McMurdo, Station by Two Lidar Systems using Novel Processing Methods	Jackson Jandreau(University of Colorado Boulder, CIRES)
	O5-3	Ti:sapphire laser based resonance-scattering Ca/Ca+ lidar; simultaneous observations of Ca and Ca+ density distributions, including temperatures, velocities, and their relationships to a wave-like motion of the upper atmosphere	Masayuki Katsuragawa(University of Electro-Communications)
	O5-4	Race in the Detection of Atmospheric-Space Metal Species Pushing LIDAR Technologies Forward	Xinzhao Chu(University of Colorado Boulder)

(12:00-12:30 Group Photo)

(12:30-17:30 Excursion)

(17:30-20:30 Banquet)

Thursday, 9 July 2026

Keynote 5			
9:00 – 9:30	Keynote 5	Integrating Ground-and Space-Borne Lidar Observations into Aerosol Data Assimilation: Progress, Challenges, and Perspectives	Keiya Yumimoto(Kyushu University)

Session O6 Lidar studies of clouds, aerosols and their interactions			
Chairpersons: Iwona Stachlewska (University of Warsaw - Faculty of Physics), Fred Moshary (City College of New York), Atsushi Shimizu (National Institute for Environmental Studies), Tetsu Sakai (MRI/JMA)			
9:30 – 10:30	O6-1	Resolving Fine-Scale Cloud Structure and Hydrometeors Using Ultra-High-Resolution Lidar	Grant Kirchhoff(University of Colorado Boulder)
	O6-2	Impact of elevated layers on shallow trade-wind clouds	Gabriela Ciocan(INOE 2000, Magurele, Romania)
	O6-3	Deep Learning Hydrometeor Classification for the E-Profile Network Using Cloudnet Data	Ana del Aguila(Andalusian Institute for Earth System Research (IISTA))
	O6-4	The ScIce-2025 database for light scattering on cirrus ice crystals for lidar applications	Alexander Konoshonkin(National Research Tomsk State University)

(10:30-11:00 Coffee Break)

Session O6 Lidar studies of clouds, aerosols and their interactions			
Chairpersons: Iwona Stachlewska (University of Warsaw - Faculty of Physics), Fred Moshary (City College of New York), Atsushi Shimizu (National Institute for Environmental Studies), Tetsu Sakai (MRI/JMA)			
11:00 – 12:30	O6-5	Smoke-cirrus interaction: combined fluorescence lidar and cloud radar observations of INPC and ICNC	Benedikt Gast(Leibniz Institute for Tropospheric Research (TROPOS))
	O6-6	Combining Airborne Lidar and Radar Measurements to Study Microphysics of Ice Clouds in the Arctic	Georgios Dekoutsidis(Institute of Atmospheric Physics, German Aerospace Center (DLR))
	O6-7	Quantification of the radiative forcing of contrails embedded in cirrus clouds	Matthias Tesche(Leipzig University)
	O6-8	On the wavelength dependence of cirrus cloud PLDR: continuity of CALIPSO and EarthCARE observations	Qiang Li(German Aerospace Center - DLR)
	O6-9	In-Cirrus Contrail properties using Airborne Lidar-Radar Remote Sensing	Mahshad Soleimanpour(Leipzig University)
	O6-10	Projected Influence of Cirrus Clouds on the Earth--Atmosphere Radiative Budget Using Two Decades of NASA MPLNET Lidar Observations and CMIP6 Climate Forecasts at GSFC	Simone Lolli(CNR IMAA, Tito Scalo (PZ), 85050, Italy)

(12:30-14:00 Lunch)

Keynote 6			
14:00 – 14:30	Keynote 6	Adventures in Airborne High-Spectral-Resolution Lidar: Combining Atmosphere and Ocean Profiling for Satellite Validation and Science Applications	Chris Hostetler(NASA Langley Research Center)

Session O6 Lidar studies of clouds, aerosols and their interactions			
Chairpersons: Iwona Stachlewska (University of Warsaw - Faculty of Physics), Fred Moshary (City College of New York), Atsushi Shimizu (National Institute for Environmental Studies), Tetsu Sakai (MRI/JMA)			
14:30 – 15:15	O6-11	The Potential of Lidar and MAX-DOAS Synergy for Quantitative Aerosol Typing	Christodoulos Biskas(Aristotle University of Thessaloniki)
	O6-12	Saharan Dust PLDR, Using Realistic Shapes, Sizes and Refractive Indices	Alexandra Tsekeri(IAASARS, National Observatory of Athens, Athens, Greece)
	O6-13	Reproducing Dust Spectral Backscatter Using Simple Shape Mixtures	Anna Gialitaki(IAASARS, National Observatory of Athens, Athens, Greece)

15:15-15:30 Poster Flash Talk: P-124–P-138

(15:30-16:00 Coffee Break)

Session O6
Lidar studies of clouds, aerosols and their interactions

Chairpersons: Iwona Stachlewska (University of Warsaw - Faculty of Physics), Fred Moshary (City College of New York), Atsushi Shimizu (National Institute for Environmental Studies), Tetsu Sakai (MRI/JMA)

16:00 – 17:15	O6-14	Synergy Between Fluorescence and Multiwavelength Lidar Measurements for Atmospheric Aerosol Characterization	Jens Reichardt(Deutscher Wetterdienst)
	O6-15	Lidar observations of stratospheric aerosols at Tsukuba (Japan) and Lauder (New Zealand) and their impact on climate	Osamu Uchino(Meteorological Research Institute)
	O6-16	Dust and Non-dust Transport Flux Structure Impact on local Air Quality over Beijing a Case Study of Lidar Observations	Longlong Wang(Zhejiang Normal University)
	O6-17	Lidar-derived aerosol hygroscopicity and its relationship with CAMS products	Frederic Laly(ADDAIR)
	O6-18	China Aerosol Raman Lidar Network (CARLNET): Development and Application	Nan Shao(CMA Meteorological Observation Centre)

(Break)

17:30-20:00 Poster Flash Talk: P-139–P-192

Poster Session 3

17:30 – 20:00	P-124	Investigation of Cloud Dynamics and Microphysics Using High Resolution Observations and Numerical Modeling	Hengheng Zhang(Research Institute for Applied Mechanics, Kyushu University)
	P-125	Cloud Microphysical Properties Derivation through Multi-Sensor Synergy: Joint Lidar-Radar Retrievals	Konstantinos Chrysostomou(ERATOSTHENES Centre of Excellence)
	P-126	Complementary Use of Doppler Lidar and Cloud Radar to Evaluate Cloud Vertical Dynamics	Allabakash Shaik(RIAM, Kyushu University)
	P-129	Year-Long Profiling of Cloud Base Optical Parameters for Future Integration with Nighttime Sky Images	Nofel Lagrosas(School of Engineering, Kyushu University)
	P-130	Cirrus Observations by Joint Ground-Based Lidar and Balloon Sounding in the Tropical Western Pacific	Xiaoyu Sun(University of Bremen)
	P-131	Observations of ice cloud dynamics using a scanning polarization lidar and an all-sky camera	Victor Shishko(V.E. Zuev Institute of Atmospheric Optics SB RAS)
	P-132	Analysis of the convergence of the physical optics method in light scattering on atmospheric ice crystals to improve the accuracy of retrieving the position of GLONASS satellites	Victor Shishko(National Research Tomsk State University)
	P-133	Combination of geometrical and physical optics for light scattering on atmospheric ice particles for lidar applications	Natalia Kustova(National Research Tomsk State University)
	P-134	Physical optics method for solving the problem of light scattering on non-spherical atmospheric ice crystals	Anastasiia Babinovich(National Research Tomsk State University)
	P-135	Study of Color Ratio of Atmospheric Ice Particles for Estimation of their Characteristic Size in Laser Sensing Problem	Natalia Kustova(V.E. Zuev Institute of Atmospheric Optics SB RAS)
	P-136	Two-beam polarization lidar	Natalia Kustova(V.E. Zuev Institute of Atmospheric Optics SB RAS)
	P-137	Comparative Study of Vertical Lidar and Ceilometer in a UAM Testbed	Yeonung Jung(Pukyong National University)
	P-138	CCN- and INP-relevant parameters retrieved for marine aerosols using AERONET-based conversion factors	Carmen Cordoba-Jabonero(Instituto Nacional de Técnica Aeroespacial (INTA))
	P-139	Vertically resolved dust and marine boundary layer lidar ratio and extinction over Barbados from multi-year scanning high spectral resolution lidar observations	Dongwei Fu(Space Science and Engineering Center, University of Wisconsin)
	P-140	Potential of Dual-Wavelength Depolarization Ratios for Aerosol Typing	Xiaoxia Shang(Finnish Meteorological Institute, Kuopio, Finland)
	P-141	Evaluation of Smoke Mass Concentration from Observations of Fluorescence Lidar with Five Discreete Channels	Igor Veselovskii(Lille University, Laboratoire d'Optique Atmosphérique, France)
	P-142	Detection of Forest Fire Plumes Using the Sapporo Lidar in AD-Net	Atsushi Shimizu(National Institute for Environmental Studies)

P-143	Long-range smoke transport from North America: Optical characterization of smoke layers over the Eastern Mediterranean by means of PollyXT lidar	Maria Poutli(Cyprus University of Technology)
P-144	Detection of Canadian biomass burning aerosols over Transylvania, Romania by lidar and sunphotometer	Horatiu Stefanie(Babeș-Bolyai University of Cluj-Napoca)
P-145	Fresh and aged smoke aerosol particles observed at 1565 nm with a HALO Doppler lidar	Maria Filioglou(Finnish Meteorological Institute)
P-146	Variations of aged smoke optical properties and MLH observed by NASA airborne HSRL and ground-based lidar in the New York City area	Yonghua Wu(the City College of New York)
P-149	Properties and Transport Paths of Two Heavy Dust Events	PEI CHEN MA(National Sun Yat-sen University)
P-150	Volume-to-extinction ratio: An important property relating lidar and gravimetric observations of dust	Alkistis Papetta(The Cyprus Institute)
P-151	A Backscattering Parameterization for Lidar-based Remote Sensing of Mineral Dust Properties	Masanori Saito(University of Wyoming)
P-152	Numerical Modeling of Light Scattering by Cosmic Dust Particles and Its Application to Zodiacal Emission	Natalia Kustova(V.E. Zuev Institute of Atmospheric Optics SB RAS)
P-154	Clustering Raman Lidar Optical Properties to Identify Arctic Aerosol Regimes	Christoph Ritter(Institute of Oceanology, IOPAN, Poland)
P-156	Above-Clouds Polarimetric Retrievals of Stratospheric Aerosol Properties	Anna Gialitaki(IAASARS, National Observatory of Athens, Athens, Greece)
P-157	Data Rescue of Stratospheric Aerosol Lidar Observations: Motivations, Results and An Application Demonstration.	Juan-Carlos Antuna-Marrero(Instituto de Geociencias (IGEO), CSIC - UCM, Madrid, Spain)
P-158	Synergistic characterization of aerosol hygroscopic growth using multi-instrument observations at the Évora Atmospheric Sciences Observatory (EVASO)	Daniele Bortoli(University of Évora, School of Sciences and Technology)
P-159	Aerosol vertical profiling through the atmosphere from the near surface with synergetic ground-based observations of sun-sky photometer, spectrometer and lidar	Masahiro Momoi(University of Warsaw, Faculty of Physics)
P-160	Measurement and Validation of Saharan Dust Optical Properties with Low-Cost 780 nm HSRL	Zachary Buckholtz(University of Wisconsin - Madison)
P-161	Dust-Anthropogenic Pollutant Interplay: Aerosol Scavenging versus SO_2 Heterogeneous Conversion	Yubing Pan(Institute of Urban Meteorology, Beijing, China) (Cancelled)
P-168	Fog and Near-Surface Aerosol Profiling Using a Portable Mie-Scattering Lidar in a Highland Environment	Mark Nickole Tabafa(De La Salle University)
P-172	Aerosol profile in Central Europe: Case Studies Using Ceilometer Backscatter Profiles	Jan Pacner(Czech Hydrometeorological Institute)
P-173	Identification of Vertical Aerosol Distributions and Retrieval of PBL Height Using a Ceilometer	Mingyoung Park(Pukyong National University)
P-175	Short-Range Lidar Characterization of Aircraft Engine Particulate Emissions	Romain Ceolato(ONERA)
P-176	Real-time monitoring of particulate matter (PM) emission from ships using scanning LiDAR	SUNGJO KIM(AICT)
P-177	Identification of PM Hot-spots using Scanning LiDAR System	Min kyung Sung(Advanced Institute of Convergence Technology (AICT))
P-178	Simultaneous Detection of Fire-Related Smoke and Industrial Particulate Matter Using a Horizontally Scanning Dual-Wavelength Polarization LiDAR	Kwanchul Kim(Advanced Institute of Convergence Technology)
P-179	Analysis of Fire Events and Aerosol Optical Properties for Wildfire Detection	Sea-Ho Oh(Advanced Institute of Convergence Technology (AICT))
P-180	Eye-Safe Scanning Polarization Lidar for Early Detection and Pre-Classification of Aerosol-Hotspots	Oliver Kliebisch(DLR)
P-181	Near-surface multiscale turbulent coherent structures observed by the REAL at M2HATS	Shane Mayor(California State University Chico)
P-182	Determination of Size-segregated Mass Extinction Efficiency for Enhancing LiDAR-based PM Retrieval Accuracy in Urban Areas	Jihyun Yoon(Pukyong National University)
P-183	AE–DP simulation based hydrometeor correction algorithm using scanning Lidar	hyojeong choi(Pukyong National University)
P-184	Altitude Correction Algorithm for RHI-Mode Lidar with Rayleigh Scattering Uncertainty Analysis	Inyeop Kim(Pukyong National University)
P-186	Assessment of relative- and absolute-calibration lidar elastic inversion algorithms for high-resolution particle-aerosol optical properties retrieval	Samuel Villalba Torres(Andalusian Institute for Earth System Research)

	P-187	How well do High Spectral Resolution Lidar error estimates explain observational spread? And does it matter?	Robert Stillwell(NSF National Center for Atmospheric Research)
	P-188	Investigation of multiple scattering effects with ESA eVe lidar measurements from the ASKOS campaign	Peristera Paschou(IAASARS, National Observatory of Athens, Greece)
	P-189	Bayesian Retrieval and Uncertainty Quantification of Aerosol Microphysical Properties from Multi-wavelength Lidar	Yinan Wang(Institute of Atmospheric Physics, Chinese Academy of Sciences) (Cancelled)
	P-190	On the Role of Wavelength-Dependent Refractive Index Assumptions in Forward Modeling of Bimodal Particle Size Distributions for Multi-Wavelength Raman Lidar	Weijie Zou(Wuhan University)
	P-191	ATLAS2.0 for the retrieval of non-spherical particle microphysical parameters from 3beta+2alpha+3delta lidar measurements	alexei kolgotin(PIC)
	P-192	Assessing the Impact of Volume Depolarization Ratio on GRASP Aerosol Retrievals: A comparative study using PollyXT Raman Lidar and Sun-photometer Data in Limassol, Cyprus	Athina Savva(Eratosthenes Centre of Excellence)

Friday, 10 July 2026

Session O7
Water vapor, temperature and wind measurements

Chairpersons: Andreas Behrendt (University of Hohenheim), Makoto Abo (Tokyo Metropolitan University)

9:00 – 10:30	O7-1	Lidar-monitoring of atmospheric fluctuations for millimeter-wave astronomical observations	Jacques Delabrouille(Centre Pierre Binetruy)
	O7-3	Observations of the marine atmospheric boundary layer using multiple lidar on board the research vessel Mirai: A case study	Masaki Katsumata(Japan Agency for Marine-Earth Science and Technology (JAMSTEC))
	O7-4	Assessment of the IPDA HDO measurement capability of the airborne lidar LEMON during its first deployment campaign	Tancrede Esnouf(ONERA)
	O7-5	Identification of aircraft wake vortices using coherent Doppler wind lidar at high viewing angles at Amsterdam Schiphol Airport	Tiemo Mathijssen(Royal Netherlands Meteorological Institute (KNMI))
	O7-6	Turbulence Spectra in the Atmospheric Surface Layer Using REAL and Doppler Lidars	Chenning Tong(Clemson University)

(10:30-11:00 Coffee Break)

Session O8
Greenhouse and trace gases monitoring

Chairpersons: Yasukuni Shibata (Tokyo Metopolitan University), Silke Groß (German Aerospace Center (DLR))

11:00 – 12:30	O8-1	A Method for Identifying and Mitigating Nonlinear Instrumental Bias in Multi-Wavelength Coherent DIAL	Nikita Kikilich(Tampere University)
	O8-2	Measurements of methane mixing ratio profiles using an Er:YAG laser–based DIAL	Dimitri Edouart(Laboratoire de Météorologie Dynamique (LMD))
	O8-3	MERLIN laser transmitter – Laser performance for critical mission objectives and outlook for future missions	Jana Ammersbach(Fraunhofer Institute for Laser Technology)
	O8-4	Automated Scanning Raman Lidar for CO2 Profiling	Moritz Schumacher(University of Hohenheim)
	O8-5	Lidar in Climate Reference Instruments and Measurements for Upper-air (COST CRIM)	Arnoud Apituley(KNMI)
	O8-6	Review of different methods to measure scalar turbulent fluxes in the atmosphere using Lidars	Fabien Gibert(LMD/CNRS, Ecole Polytechnique, Palaiseau, France)

(12:30-14:00 Lunch)

14:00-15:30 Closing Ceremony

Fred Moshary (City College of New York), Hajime Okamoto (Research Institute for Applied Mechanics, Kyushu University)

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