

Detailed Conference Programme

10 September 2025 Wednesday



Time	No.	Title	Presenting Author
08:00 - 08:45		On-site registration	
08:50 - 09:00		Welcome & Info	

Session 1: Lidar technology advances			
51 Chairs: Doina Nicolae (INOE), Renaud Matthey (Univ. of Bern)			
09:00 - 09:15	#78	LUCE: A Pioneering Lidar Mission for Earth Sciences	Paolo Di Girolamo (Unibas)
09:15 - 09:30	#64	From Peaks to Seas: Introducing the DECIPHER and LAMP Measurement Campaigns	Marco Di Paolantonio (CNR-ISMAR)
09:30 - 09:45	#85	Newest 18-channel PollyNET lidar with Rotational Raman, Fluorescence, and three-wavelength depolarization measurement capabilities	Ronny Engelman (TROPOS)
09:45 - 10:00	#31	New capabilities for Fluorescence Lidar Observations at CIAO Observatory	Benedetto De Rosa (CNR-IMAA)
10:00 - 10:15	#73	CE710-LIFE fluorescence lidar: first results at ATOLL, Lille, France	Ioana Popovici (Univ. of Lille)
10:15 - 10:30	#103	Mapping of the water vapor structure of the tropical and sub-tropical Atlantic using airborne DIAL measurements during the PERUSION campaign	Martin Wirth (DLR)
10:30 - 11:00		Coffee break & Poster Session 1	
Chairs: Silke Groß (DLR), Tiemo Mathijssen (KNMI)			
11:00 - 11:15	#15	Design Considerations for a Bistatic Camera Lidar	John Barnes (BJE Env. Optics)
11:15 - 11:30	#19	Dual-Field-of-View Depolarization approach using the PollyXT Raman Lidar: Characterization of aerosol-cloud interactions in the semi-arid climate of Cyprus	Constantinos Chrysostomou (ECoE)
11:30 - 11:45	#71	A methodology to measure the GHK factors using atmospheric regions where the volume linear depolarization ratio is known. Challenges and limitations	Nikolaos Siomos (LMU)
11:45 - 12:00	#75	POLIS1064 – A polarization Raman lidar with state-of-the-art recorders for minimizing analogue signal distortions	Michael Haimerl (LMU)
12:00 - 12:15	#89	High spatial resolution of lidar signals - how far can we get?	Mateusz Winkowski (UW)
12:15 - 12:30		Discussion	
12:30 - 13:30		Lunch break	

Session 2: Lidar algorithms and data products			
52 Chairs: Eleni Marinou (NOA), Juan Luis Guerrero-Rascado (UGR)			
13:30 - 13:45	#96	ATLID - one year after first light - performance, results and validation	Georgios Tzeremes (ESA-ESTEC)
13:45 - 14:00	#49	A correlation study between ground-based lidar systems from the ACTRIS-EARLINET network and L2A data from the ATLID instrument	Stefan Nicolae (INOE)
14:00 - 14:15	#20	Assessment of ATLID Level 2A aerosol products using ACTRIS/EARLINET observations	Christina-Anna Papanikolaou (CNR-IMAA)
14:15 - 14:30	#29	Evaluation of the EarthCARE aerosol classification scheme using ACTRIS/EARLINET observations	Kalliopi Artemis Voudouri (NOA)
14:30 - 14:45	#21	Validation of EarthCARE L2a products using ground-based PollyNET lidar measurements at Cabo Verde, Tajikistan, Germany and on the Atlantic Ocean	Holger Baars (TROPOS)
14:45 - 15:00	#93	Stationary and Mobile Lidars for Validation of ATLID in Urban and Rural Environment	Afwan Hafiz (UW)
15:00 - 15:30		Coffee break & Poster Session 2	
Chairs: Lucia Mona (CNR-IMAA), Horatiu Stefanie (BBU)			
15:30 - 15:45	#33	Using the ground-based ESA eVe reference lidar for the validation of Aeolus and EarthCARE lidar products	Peristera Paschou (NOA)
15:45 - 16:00	#51	The EARLINET Single Calculus Chain Module for the Retrieval of Optical Products at Multiple Wavelengths – Update on ELDAmwl	Ina Mattis (DWD)
16:00 - 16:15	#10	A Generalized Lidar Retrieval Algorithm for Mineral Dust Using Scattering Models Accounting for Particle Non-Sphericity	Yuyang Chang (Univ. of Lille)
16:15 - 16:30	#45	Machine Learning Techniques for the Estimation of Aerosol Particle Depolarization Ratio at 355 nm from ACTRIS-EARLINET	Andrei-Valentin Dandocsi (INOE)
16:30 - 16:45		Discussion	
16:45 - 17:00		Discussion	

18:00 - 19:30 Guided tour in the Warsaw Old Town (Gathering at Sigismund's Column, Plac Zamkowy)

11 September 2025 Thursday

Time	No.	Title	Presenting Author
08:00 - 08:45		On-site registration	
08:50 - 09:00		Welcome & Info	

Session 3: Lidar applications in atmospheric sciences			
53 Chairs: Mika Komppula (FMI), Hannes Vogelmann (KIT)			
09:00 - 09:15	#59	Observation of a mixed dust and BBA layer with RAMSES, ALV, and ATLID over the Lindenberg Meteorological Observatory on 4–5 April 2025	Jens Reichardt (DWD)
09:15 - 09:30	#23	Characteristics of the smoke aerosol layers as observed by the EARLINET lidar stations in 2015-2023	Doina Nicolae (INOE)
09:30 - 09:45	#18	Investigating smoke optical properties in Eastern Mediterranean: Lidar observations in Cyprus	Maria Poutli (ECoE)
09:45 - 10:00	#26	Long range transport complexity of mixed biomass burning aerosols over the southwest Indian Ocean: a case study in September 2017	Dominique Gantois (LACy)
10:00 - 10:15	#5	Identifying Source Regions for Arctic Smoke Layers and Characterizing Their Optical Properties using CALIPSO observations	Maria Filioglou (FMI)
10:15 - 10:30	#9	Annual aerosol and dust cycle observed by lidar in Central Asia, Dushanbe, Tajikistan	Georg Müller (TROPOS)
10:30 - 11:00	Coffee break & Poster Session 3		
Chairs: Tsvetina Evgenieva (IE-BAS), Michael Sicard (LACy)			
11:00 - 11:15	#38	Exeptionally intensive Saharan dust tranposrt over Warsaw, Poland in April 2024	Dominika Szczepanik (UW)
11:15 - 11:30	#50	The Change of the lidar ratio with hygroscopic growth – A lidar study at 355, 532 and 1064 nm for continental aerosol	Moritz Haarig (TROPOS)
11:30 - 11:45	#6	A 15-year climatology of solar background calibrated temperature profiles measured by the Raman Lidar for Meteorological Observations	Gianni Martucci (MeteoSwiss)
11:45 - 12:00	#68	Lidar-derived Vertical Aerosol Fluxes in the Boundary Layer	Maciej Karasewicz (UW)
12:00 - 12:15	#76	Aircraft wake vortex measurements using a Doppler wind lidar at Amsterdam Airport	Tiemo Mathijssen (KNMI)
12:15 - 12:30	Discussion		
12:30 - 13:30	Lunch break		

Session 4: Lidar applications in ocean sciences			
54 Chairs: Davide Dionisi (CNR-ISMAR), Cedric Jamet (LOG)			
13:30 - 13:45	#102	Satellite LiDAR applications for ocean studies across dynamic environments	Kelsey Bisson (OSU)
13:45 - 14:00	#32	Consistency Analysis of Diffuse Attenuation Coefficients from ICESat-2 and MODIS in Marginal Seas: Implications for Ocean Optical Observations	Zhenhua Zhang (Guangzhou)
14:00 - 14:15	#65	Sea Surface pCO ₂ and CO ₂ Flux in the Arctic Ocean Using Spaceborne LiDAR	Siqi Zhang (SOED)
14:15 - 14:30	#34	Simulating oceanic lidar observational capabilities: PROTEO project in the Luce mission	Lorenza Masi (CNR-ISMAR)
14:30 - 14:45	#80	15 years of experience in remote measurement of suspended particulate matter in water using laser-induced fluorescence shipborne LiDAR	Aleksandr Molkov (LiFeLiDAR)
14:45 - 15:00	Discussion		
15:00 - 15:30	Coffee break & Poster Session 4		

16:30 - 18:00 **Guided tour in the Warsaw Old Town** (Gathering at Sigismund's Column, Plac Zamkowy)

19:00 - 23:00 **Social dinner**

12 September 2025 Friday

Time	No.	Title	Presenting Author
08:00 - 08:45		On-site registration	
08:50 - 09:00		Welcome & Info	
Session 5: Lidar synergy with other instruments			
55 Chairs: Rodanthi Elisavet Mamouri (ECoE), Holger Baars (TROPOS)			
09:00 - 09:15	#8	<i>A UAV-based and Lidar Synergistic Approach for Estimating Dust Volume-to-Extinction Ratios</i>	Alkistis Papetta (The Cyprus Institute)
09:15 - 09:30	#37	<i>Towards Accurate Aerosol Characterisation: Integrative Analysis Using Remote and In-situ Techniques</i>	Anca Nemuc (INOE)
09:30 - 09:45	#57	<i>Quantifying dust concentration and internal mineralogical mixture, by combining remote sensing and airborne in-situ observations, during ASKOS</i>	Maria Tschla (NOA)
09:45 - 10:00	#62	<i>High-Resolution Monitoring of Particulate Pollution in Urban Environments Using Doppler Lidar</i>	Pablo Ortiz-Amezcuca (UGR)
10:00 - 10:15	#88	<i>Decoding Urban Air Quality: A Multidimensional Exploration of Pollution Dynamics in Wrocław, Poland</i>	Anetta Drzeniecka-Osiadacz (UWr)
10:15 - 10:30	#104	<i>Synergy of lidar and hot air balloon observations: aerosol size distribution</i>	Mariola Jabłońska (US-ULAC)
10:30 - 11:00		Coffee break & Poster Session 5	
Chairs: Iwona Stachlewska (UW), Alexander Geiß (LMU)			
11:00 - 11:15	#17	<i>Synergistic Exploitation of Aerosol Products from Active and Passive Polar-Orbiting Satellites for Wildfire Monitoring: The Los Angeles Case, January 2025</i>	Konstantinos Michailidis (AUTH)
11:15 - 11:30	#30	<i>Assessing the influence of anthropogenic aerosols on climate by combining remote sensing data with atmospheric models</i>	Camelia Talianu (INOE)
11:30 - 11:45	#41	<i>Synergistic Retrieval of Aerosol Properties Using GRASP/GARRLiC: Case Studies of Long-Range Transported Dust and Smoke</i>	Camelia Gînsă (BBU)
11:45 - 12:00	#66	<i>Recent advances in lidar studies of airborne birch pollen in Finland</i>	Mika Komppula (FMI)
12:00 - 12:15	#69	<i>Smoke in the Valleys, Data on the Peaks: Remote Sensing of Wildfire Aerosols in the Alps</i>	Michał Posyniak (KIT)
12:15 - 12:30	#12	<i>Observation and evaluation of a huge smoke transport event in September 2020 using Aeolus Baseline16 data and multi-platform data</i>	Kangwen Sun (TROPOS)
12:30 - 13:30		Lunch break	
13:30 - 15:00		OPEN FORUM	
15:00 - 15:30		Coffee break	
15:30 - 17:00		OPEN FORUM	

17:30 - 19:00 **Guided tour in the Warsaw Old Town** (Gathering at Sigismund's Column, Plac Zamkowy)

List of poster presentations

No.	Title	Presenting Author
S1 Poster Session 1: Lidar technology advances Wednesday, 10 September 2025, 10:30-11:00		
1	#22 <i>Telecover tests for ceilometers of type CHM</i>	Alexander Geiß (LMU)
2	#24 <i>Comparative Analysis of Fluorescence Lidar Measurements using 44 nm and 100 nm Interference Filters: A Case Study of a Saharan Dust Event over Thessaloniki</i>	Georgia Peletidou (AUTH)
3	#28 <i>Development of an Optical Lab for Lidar Applications (OLALA)</i>	Esha Semwal (TROPOS)
4	#35 <i>Design and Implementation of a Near-Field Telescope for ACTRIS Lidar Systems Compliant with NF Performance Criteria</i>	Livio Belegante (INOE)
5	#36 <i>Recent advances from the observational platform lidar at Atmospheric Rome joint supersite (ARTE)</i>	Giovanni Giuliano (CNR-ISMAR)
6	#42 <i>Boosting Data Availability in a Six-Beam Doppler Lidar</i>	Mohammadreza Manami (DTU)
7	#54 <i>A new advanced solution for high power lidar systems: the CLASS dual mode acquisition board</i>	Giovanni Maresca (Unina)
8	#55 <i>Characterization of atmospheric aerosol particles by combination of multi-wavelength Raman and spectroscopic lidar techniques</i>	Sol Fernández-Carvelo (UGR)
9	#67 <i>First calibration results from a new rotational Raman lidar for thermodynamic profiling at the CIAO atmospheric observatory</i>	Michail Mytilinaios (CNR-IMAA)
10	#70 <i>Upgrade of the MeteoSwiss Raman lidar RALMO for depolarisation measurements</i>	Renaud Matthey (Univ. of Bern)
11	#74 <i>Side-by-Side Intercomparison of Water Vapor Profiles from the Vaisala DIAL and Purple Pulse Raman Lidar</i>	Hannes Vogelmann (KIT)
S2 Poster Session 2: Lidar algorithms and data products Wednesday, 10 September 2025, 15:00-15:30		
1	#3 <i>Intercomparison of EarthCARE ATLID L2 Products with Ground-based Lidar Observations at El Arenosillo Station (Southwestern Iberian Peninsula): Preliminary Results on Selected Case Studies of Aerosol and Cloud Scenarios</i>	Carmen Cordoba-Jabonero (INTA)
2	#16 <i>Towards a Standardization of the Quality of Lidar Signals and Derived Optical Products at the LALINET stations in Medellín and La Paz</i>	Juan Luis Guerrero-Rascado (UGR)
3	#27 <i>Climatology of aerosol vertical distribution over 4 Mediterranean sites based on Level 3 EARLINET data products</i>	Anastasia Pantazi (AUTH)
4	#40 <i>Automated Aerosol Classification via Neural Networks: Application of NATALi Software to Lidar Data in Cluj-Napoca</i>	Horia Camarasan (BBU)
5	#44 <i>Calibration of the water vapor vibro-rotational Raman channel using ground-based meteorological measurements</i>	José Luis Gómez-Amo (UV)
6	#46 <i>Validating ATLID Level 1B Nominal Track Products Against High-Resolution Ground-Based Lidar Data</i>	Gabriela Ciocan (INOE)
7	#52 <i>ACTRIS/EARLINET Level 3 dataset: 20-years European aerosol vertical profile climatology</i>	Lucia Mona (CNR-IMAA)
8	#53 <i>NRT provision of ACTRIS aerosol profiles</i>	Aldo Amodeo (CNR-IMAA)
9	#56 <i>Aerosol Typing Using Multiwavelength Lidar and Machine Learning Applied to EARLINET Stations</i>	Lucas Alados-Arboledas (UGR)
10	#90 <i>Best Practice Protocol for the Validation of Aerosol, Cloud, and Precipitation Profiles (ACPPV) and its application for the validation of the EarthCARE lidar products</i>	Eleni Marinou (NOA)
11	#94 <i>PollyNet - A lidar network</i>	Birgit Heese (TROPOS)
12	#98 <i>Airborne lidar measurements to validate EarthCARE's Atmospheric Lidar (ATLID)</i>	Silke Gross (DLR)

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S3 Session 3: Lidar applications in atmospheric sciences Thursday, 11 September 2025, 10:30-11:00			
1	#4	Experimental assessment of the CNRM-ALADIN64 model with lidar and passive measurements during the dust and heatwave event in the Iberian Peninsula in July 2019	Alejandro Rodríguez-Gómez (UPC)
2	#43	Seasonal Variability of Planetary Boundary Layer Height (PBLH) Over the Mediterranean Region (ACTRIS Potenza Station)	Zeeshan Ali (Unina)
3	#47	Identification of Soil CO ₂ and Rn Ventilation with Doppler-Lidar Derived Turbulence over Mediterranean Drylands	Jesús Abril-Gago (UGR)
4	#48	First considerations about APINA (Aerosol Properties by Integrated measurements in Naples Area) multi-parametric measurement campaign	Matteo Manzo (Unina)
5	#58	Water Vapor Mixing Ratio Lidar Profiles Related to Atmospheric Conditions During an Intensive Measurements WaLiNeAs Period in Burjassot Site	Carmen Dameto (UV)
6	#61	Comparison of PSC measurements with the ALV and RAMSES lidars of the Lindenberg Meteorological Observatory and ATLID onboard the EarthCARE satellite	Jens Reichardt (DWD)
7	#63	Aerosol-optical and fluorescence properties of stratospheric volcanic sulfate over Leipzig	Benedikt Gast (TROPOS)
8	#72	Pollen Observations with Multiwavelength Mie-Raman Lidar over Warsaw: What we learned from a decade of measurements?	Artur Tomczak (UW)
9	#91	Models, In situ, and Remote sensing of Aerosols (MIRA) — An International Working Group	Eleni Marinou (NOA)
10	#92	Lidar-Based Characterization of Desert Dust and Biomass Burning Aerosol Mixtures over Warsaw (PollyXT) and Wrocław (EMORAL) in August 2024	Lucja Janicka (UW)
11	#97	Extreme Saharan Dust Event over Europe of the Spring 2024 as Observed above Sofia, Bulgaria	Tsvetina Evgenieva (IE-BAS)
12	#99	Forecasting and analysing wildfire plumes in the European atmosphere, demonstrated by the case of Canadian wildfire plumes in June 2025	Sabine Eckhardt (NILU)

S4 Session 4: Lidar applications in ocean sciences Thursday, 11 September 2025, 15:00-15:30			
1	#79	Evaluation of CALIOP derived backscattering coefficient (bbp(532)) product over contrasted oceanic waters	Cédric Jamet (LOG/ULCO)
2	#81	Synergy of LIF LiDAR, radiometric, and Sentinel-2/MSI, -3/OLCI Data for Regional Bio-Optical Modeling: Case Study on Lake Issyk-Kul	Ekaterina Koltsova (LIFeLiDAR)
3	#86	New LIFL-11 portable fluorescence LiDAR for multi-parameter measurements of water column bio-optical properties	Vadim Pelevin (LIFeLiDAR)
4	#87	Investigating Decay of Underwater Laser Signal as Measure of Water Properties for Ocean Lidar – Experimental Study	Nikola Wierzbicka-Mróz (UW)

S5 Session 5: Lidar synergy with other instruments Friday, 12 September 2025, 10:30-11:00			
1	#1	The Dust Doctoral Network	Franco Marengo (The Cyprus Institute)
2	#7	Retrieval of the aerosol optical and microphysical properties derived from GRASPpac	Mariana Adam (INOE)
3	#11	Evaluation of a satellite dust optical depth product using using lidar measurements in Thessaloniki, Greece	Christodoulos Biskas (AUTH)
4	#13	Comparison of ABLH estimates in the frame of the BELLA-ABL Campaign in Southern Italy	Donato Summa (CNR-IMAA)
5	#14	Combining micropulse lidar and photometer for aerosol monitoring over oceans: TRANSAMA ship-based campaign	Maria Fernanda Sanchez-Barrero (Univ. of Lille)
6	#25	Arabian and Saharan Dust Optical and Microphysical Properties: Synergy of CARO Limassol PollyXT Lidar, and Sun Photometer observations using GRASP algorithm	Rodanthi Mamouri (ECOE)
7	#39	Establishing a Dual-Component ACTRIS Site in Cluj-Napoca: From Technical Integration to Scientific Potential in Aerosol and Cloud Remote Sensing	Alexandra Câțu (BBU)
8	#60	The potential of the ERATOSTHENES CARO National Facility in the EMMENA region: An Holistic Approach for aerosol and cloud profiling over Limassol, Cyprus	Rodanthi Mamouri (ECOE)
9	#101	Multi-Platform Vertical Profiling of Aerosol Optical Properties Using Lidar, UAS, and Tethered Balloon at ACTRIS-PL site in Strzyżów	Krzysztof Markowicz (UW)