



iCACGP-IGAC
Heraklion Crete Greece
2026

Atmospheric Chemistry within the Earth System:

Understanding Changes and Impacts 2026

Final Programme

**2026 iCACGP-IGAC
Joint Conference
6-11 Sept. 2026
Heraklion, Crete, Greece
www.icacgp-igac2026.org**

Professional Congress Organizer



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Atmospheric Chemistry within the Earth System:

Understanding Changes and Impacts 2026



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Stay updated in upcoming news and events related to innovation in atmospheric sciences!



Ubiquitous Particle Profiling

Gemma Bale + Sarah Bohndiek

Particulate matter is one of the least well-resolved features of the air around us, despite it having far reaching consequences for our environment and health. The same particles that trigger respiratory disease, cancer and premature death also influence cloud formation, alter rainfall and swing the planet's energy balance, and aerosol-cloud interactions remain the largest single uncertainty in our climate projections.

Today's measurement tools force a choice between low-cost sensors that tell us little more than how much particulate matter is present, and complex laboratory instruments that are too expensive and fragile for widespread use.

To close this gap, the programme will aim to make detailed particle profiling possible anywhere: compact, autonomous systems that read a particle's size, shape and composition in real time and trace it back to its source, turning invisible matter into actionable information.

Subject to approval, we will be accepting concept paper submissions from teams in late 2026.

Learn more in our
programme thesis:



Discover our
Opportunity Space:



Section 1: Scientific Program

Sunday, September 6, 2026

16:30-19:00

Registration

18:00-19:30

Ice Breaking

Monday, September 7, 2026

09:00-10:00

Opening Ceremony

10:00-10:45

Andreas & Maria Kalokairinou Hall

Keynote 1 : Vicki H. Grassian

Chair: Vinayak Sinha, Christian George

Atmospheric Chemistry at Interfaces

Vicki Grassian (United States of America)

10:45-11:10: Coffee Break

11:10-13:15

Andreas & Maria Kalokairinou Hall

Session 2, Morning: Fundamentals of Atmospheric Chemistry and Physics

Chair: Nicolas Huneeus, Sachin Kumar Mishra

Chemical and physical factors that influence ozone formation in Andean South America: Insights from surface measurements, ozone soundings, and modeling (Invited)

Maria Cazorla (Ecuador)

Molecular Insights into Gas-Particle Partitioning, Viscosity and Absorption of Atmospheric Aerosols

Yinon Rudich (Israel)

A Missing Pool of Photooxidants: Photochemistry of Methanol-Soluble Brown Carbon in Ambient Particles

Laura Heinlein (United States)

Recreating the breath of cities in the simulation chamber SAPHIR

Georgios Gkatzelis (Germany)

Functional groups with online aerosol mass spectrometry: OA aging processes and properties

Rachel E O'Brien (United States of America)

Nitrate Limitation and Influence of Air Mass Origins on Aerosol pH and ALWC in a Coal Mining City

Kumar Gaurav Mishra (India)

Biosphere-atmosphere interactions in a subtropical megacity : how do emissions of biogenic gaseous precursors shape secondary organic aerosol pollution ?

Agnès Borbon (France)

Evaluation of the role played by Bromine and Iodine emissions from polar sea-ice on Ozone Depletion Events over the Arctic and NH mid-Latitudes using the CESM2-SLH chemistry-climate model

Rafael Pedro Fernandez (Argentina)

13:15-14:00: Lunch Break

14:00-16:00

Poster Area

Poster Session 1

16:00-18:05

Andreas & Maria Kalokairinou Hall

Session 2, Afternoon: Fundamentals of Atmospheric Chemistry and Physics

Chair: Maria Angelaki, Sergey Nizkorodov

Molecular beams study of heterogeneous NO_x (photo)chemistry at the air-ice interface

Patrick Ayotte (Canada)

Slowing global warming - one molecule at the time

Ole John Nielsen (Denmark)

Heterogeneous chemistry of HNO₃ and HCl with calcite in the stratosphere

Célia Paolucci (Switzerland)

Unexpected Photosensitized Oxidation of Biomass Burning Tracers Initiated by S(IV) Photochemistry

Junjie Gu (Saudi Arabia)

Daytime HONO formation from multiphase photochemistry of Fe(III)-carboxylates

Lucia Iezzi (Germany)

Investigating Multi-phase Reaction Pathways and Product Distributions of Peroxy Radicals

Lexy Lemar (United States of America)

Variation of Surface Propensity of Halides, Alkali Ions and Ion-Pairing from Supercooling to Above Room Temperature

Styliani Consta (Canada)

Tuesday, September 8, 2026

09:00-09:45

Andreas & Maria Kalokairinou Hall

Keynote 2 : Cathy Clerbaux

Chair: Mary Barth

The contribution of the IASI satellite mission to the study of atmospheric composition

Cathy Clerbaux (France)

09:45-10:35

Andreas & Maria Kalokairinou Hall

Session 3, Morning : Emissions, Air Pollution and Impacts

Chair: Nestor Rojas, Flossie Brown

Top-down estimates of emergent and long-standing pollution sources in Sub-Saharan Africa to scrutinize inventories needed to inform air quality regulation (Invited)

Eloise Marais (United Kingdom)

Global emission trends of anthropogenic full-volatility-range organic compounds 1970-2020

Ruochong Xu (Switzerland)

A Decade of Evidence: Systematic Underestimation of Oil and Gas Industry Emissions in Regulatory Inventories

Detlev Helmig (United States of America)

10:35-11:10: Coffee Break

11:10-12:55

Andreas & Maria Kalokairinou Hall

Session 3, Morning - Part Two: Emissions, Air Pollution and Impacts

Chair: Nestor Rojas, Flossie Brown

Extreme ozone formation in the Middle East driven by unaccounted hydrocarbon sources

Efstratios Bourtsoukidis (Cyprus)

Super-resolution localization and quantification of SO₂ emissions over India and Middle East using TROPOMI observations

Yutao Chen (Netherlands)

Oxidative potential of PM_{2.5} as a health-relevant metric during biomass burning events in São Paulo, Brazil

Perola De Castro Vasconcellos (Brazil)

Chemical analysis of ambient urban environment and of brake-emissions from laboratory testing

Anna Breuninger (Germany)

Challenges in chasing tire and road wear particles via organic marker compounds

Anke Nölscher (Germany)

Sea spray aerosol as an overlooked source of gas-phase perfluoroalkyl substances (PFAS)

Sneha Aggarwal (Denmark)

Integrating FINNv2.5 peat emissions into MUSICAv0: implications for air quality and radiative impacts over the Maritime Continent

Shane Marie Visaga (United States of America)

12:55-14:00: Lunch Break

14:00-16:00

Poster Area

Poster Session 2

16:00-18:20

Andreas & Maria Kalokairinou Hall

Session 3, Afternoon: Emissions, Air Pollution and Impacts

Chair: Martin Otto Paul Ramacher, Liya Yu

From Smoke Chemistry to Public Safety: Bridging Fundamental Biomass Burning Research and Applied Fire Management Strategies (Invited)

Maximilien Desservettaz (Australia)

From Burn Chamber to Smoke Plumes: Comprehensive Characterization of Wildfire Emissions from Nevada Wildland Fuels

Andrey Khlystov (United States of America)

Bulk and Molecular Chemical Characterization of Aged Canadian Biomass Burning Aerosols from the 2023 Wildfires

Patrik Winiger (Switzerland)

Continental-scale mapping and short-range forecasting of atmospheric pollen using multimodal deep learning

Ron Sarafian (Israel)

Linking urban emissions, atmospheric processes and population exposure: application of an integrated modelling approach within the IMTECC project

Arthur Elessa Etuman (France)

Constraints on heterogeneous HONO formation in an urban atmosphere and its consequences for ozone and particulate nitrate

Junsu Gil (Republic of Korea)

Assessing the Health Outcomes Associated with PM2.5 Exposure in Gold Mining Adjacent Communities

Nomsa Thabethe (South Africa)

Synergistic exposure to PM2.5 and thermal Stress in Abidjan, Côte d'Ivoire: preliminary insights and health linkages

Madina Doumbia (Côte d'Ivoire)

Low-cost sensors to quantify activity-driven air pollution in indoor environments

Dylan Sanghera (United Kingdom)

18:20-20:00

Andreas & Maria Kalokairinou Hall

Panel Discussion

Wednesday, September 9, 2026

08:30-09:15

Andreas & Maria Kalokairinou Hall

Keynote 3 : Allison Steiner

Chair: Mary Barth

Over & Out: BVOC Chemistry from Forest Canopies to the Boundary Layer

Allison Steiner (United States of America)

09:15-10:35

Andreas & Maria Kalokairinou Hall

Session 1, Morning : The Changing Atmosphere: Interactions with Ocean, Ice, and Land

Chair: Lin Du, Garima Shukla

At The Interface of Atmospheric Chemistry and Vegetation (Invited)

Colette Heald (Switzerland)

Revisiting non-stomatal VOC dry deposition: ecosystem-scale insights into humidity and physicochemical controls

Clément Dumont (Belgium)

Type, concentrations and fluxes of biogenic volatile organic compound emissions of managed Swedish and pristine Alaskan boreal forests

Claudia Mohr (Switzerland)

Integrated in-situ and remote sensing observations and modelling to assess climate- and pollution impacts at a heavily N-influenced forest site

Laurens Ganzeveld (Netherlands)

Modeling Biogenic Isoprene Emissions under Climate Change and Extreme Events

Hui Wang (United States of America)

10:35-11:10: Coffee Break

11:10-12:45

Andreas & Maria Kalokairinou Hall

Session 1, Afternoon : The Changing Atmosphere: Interactions with Ocean, Ice, and Land

Chair: Julieta Juncosa, Katerina Sindelarova

The influence of short-lived halogens on atmospheric chemistry and climate (Invited)

Alfonso Saiz-Lopez (Spain)

The impact of land use updates and leaf temperature parametrization on BVOC emissions evaluated against satellite and in-situ observations

Jesse Bash (Norway)

Response of atmospheric oxidative capacity and its drivers to CMIP6 versus CMIP7 forcing datasets simulated by GFDL-ESM4.1

Vaishali Naik (United States of America)

Biomass burning plumes enhance air-sea Volatile Organic Compound (VOC) exchange in the Northeast Atlantic

Irene Monreal-Campos (United Kingdom)

The impacts of global fires on the Arctic environment

Cynthia Whaley (Canada)

Nighttime NO_x production in polar snow at Concordia station (Antarctica): How can it be?

Joel Savarino (France)

Thursday, September 10, 2026

09:00-11:05

Andreas & Maria Kalokairinou Hall

Session 4, Morning : Climate-Air Quality Interactions

Chair: Uz Shahid Zaman, Ruth Doherty

Key Processes and Mechanisms of the Interaction between Air Quality and Climate Change (Invited)

Hong Liao (China)

Mediterranean Warming Amplification Driven by Anthropogenic Aerosol Changes in CMIP6 Earth System Models

Prodromos Zanis (Greece)

Understanding drivers of BVOC emission increases under a global aerosol mitigation scenario

Yue Chen (United Kingdom)

Continuous and substantial reduction of black carbon emissions from China during 2009–2024: Estimates from observations at remote sites in Japan

Kohei Ikeda (Japan)

Multi-Year NO₂-CO Relationships and Pollution Enhancements Observed Using PANDORA and EM27/SUN in Tsukuba, Japan

Mahendar Chand Rajwar (Japan)

Impacts of Atmospheric Aerosols on Frontal Dynamics and Precipitation over East Asia

Lian Xue (China)

From the Saharan Oscillation Index to Urban PM₁₀ Extremes: Bridging Dust Dynamics and Air Quality in Morocco

Kenza Khomsi (Morocco)

Airborne Pollen Responses to Global Climate Change

Yingxiao Zhang (United States of America)

11:05-12:45

Poster Area

Poster Session 3

12:45-14:00: Lunch Break

14:00-16:20

Andreas & Maria Kalokairinou Hall

Session 4 Afternoon: Climate-Air Quality Interactions

Chair: Cybelli Barbosa, Stuart Piketh

Climate and air quality interactions: Current understanding, research gaps, and future challenges (Invited)

Fiona O'Connor (United Kingdom)

Evolution of Near-Term Atmospheric Methane and Associated Temperature Response Under Several Emission Scenarios

Ulas Im (Denmark)

Revised direct radiative forcing of airborne microplastics suggests warming

Laura Revell (New Zealand)

Sustained emission growth in Southeast Asia dominates the global tropospheric ozone increase from 2000 to 2019

Bin Luo (China)

Changes and trends in surface ozone over Central Chile since the 2000s: identifying drivers

Laura Gallardo (Chile)

Tracking Agro-Industrial CH₄ Sources in Türkiye via TROPOMI for 2019–2025

Ezgi Akyuz (Turkey)

A two-model study of the climate impact of present and future space flight

Kostas Tsigaridis (United States of America)

Regional Land–Atmosphere and Hydrological Responses to the 2024 South American Wildfires

Iulian-Alin Rosu (Greece)

16:20-18:20

Poster Area

Poster Session 4

Friday, September 11, 2026

09:00-10:35

Andreas & Maria Kalokairinou Hall

Session 5, Morning : Innovative Approaches to Observations and Modeling

Chair: Karn Vohra, Evelyne Touré

Tracing atmospheric nitrogen sources in non-urban regions of South Africa using stable isotopes (Invited)

Katye Altieri (South Africa)

Process-Level Quantification of Secondary Organic Aerosol through Integrated AMS and CIMS Observations

Yan Zheng (China)

Quantifying the role of chemistry, surface exchange, and transport on the hemispheric variability of mercury (Hg)

Eric Roy (USA)

First simultaneous observations of CO₂, CH₄ and NO₂ from space: New insights from the GOSAT-GW mission

Hiroshi Tanimoto (Japan)

Data-driven modelling of ozone dynamics in Asian megacities

Jairo Vazquez Santiago (Japan)

Tropospheric Ozone Trends: “Getting It Right” with 25 Years of Ground-based Observations

Anne Thompson (United States of America)

10:35-11:35: Coffee Break & Poster Viewing

11:35-12:20

Andreas & Maria Kalokairinou Hall

Keynote 4 : Spyros Pandis

Chair: Christian George, Vinayak Sinha

Chemical aging of atmospheric organic aerosol

Spyros Pandis (Greece)

12:20-12:50

Andreas & Maria Kalokairinou Hall

Session 5, Morning - Part Two : Innovative Approaches to Observations and Modeling

Chair: Karn Vohra, Evelyne Touré

Future directions in air quality research: A call for tighter coupling between chemical and meteorological observations.

James Crawford (United States of America)

Machine learning based attribution of tropical hydroxyl radical variability from a multi-species chemical data assimilation

Pieter Rijsdijk (Netherlands)

12:50-14:00: Lunch Break

14:00-15:20

Andreas & Maria Kalokairinou Hall

Session 5, Afternoon: Innovative Approaches to Observations and Modeling

Chair: Rebecca Garland, William Aponso

From Fingerprints and In-situ data to High Resolution Source Maps -Innovative Approaches for Air Pollution Source Apportionment in Complex Atmospheric Environments (Invited)

Baerbel Sinha (India)

Quantifying the impacts of anthropogenic hydrogen on atmospheric composition and climate

Hannah Bryant (United Kingdom)

Constraining spatial, seasonal and temporal variability in OH with ^{14}CO

Lee Murray (United States of America)

Intra-Airport Fine Particle Source Apportionment via PMF Receptor Modeling

Jingsha Xu (China)

High-Resolution Modeling of WUI Fire Impacts on Air Quality in Los Angeles during the January 2025 Fires

Julianna Christopoulos (United States of America)

15:20-14:00

Andreas & Maria Kalokairinou Hall

Student Awards

16:00-16:30

Andreas & Maria Kalokairinou Hall

Crutzen Award & Lecture

Unveiling the Mechanisms for Autoxidation of Organic Films under Environmental Conditions

Xinke Wang (China)

16:30-17:00

Andreas & Maria Kalokairinou Hall

Closing Ceremony

Section 2: Poster List

Slot 1: Monday-Wednesday

S1_P001 | The Photochemical Environmental Differences in BL and Their Impact on Air Photochemical Age

Bin Zhu (China)

S1_P002 | Quantifying the Underestimation of Photolysis Rates in Global Models using ground and aircraft based measurements

Jake Job (United Kingdom)

S1_P003 | Remote Marine Measurements of Nitrogen Oxides using Laser Induced Fluorescence (LIF)

Phin Petherick (United Kingdom)

S1_P004 | Sources, sinks and nonlinear controls of atmospheric ion concentrations at a background site in the eastern Mediterranean.

Spyridon Emmanouil Markoulakis (Greece)

S1_P005 | Investigating the evolution of organic aerosol in the downwind region

Mingfu Cai (China)

S1_P006 | Gas-aerosol partitioning of reactive nitrogen in a nitrogen dominated atmosphere

Pascale Ooms (Netherlands)

S1_P007 | Unknown OH sinks at an urban site in Manchester, UK

James Lee (United Kingdom)

S1_P008 | The chemical aging of organic aerosols in the atmosphere: Results from the POSEIDON campaign

Christina Vasilakopoulou (Greece)

S1_P009 | Stable Isotope Tracers Reveal Gas-Surface Interactions in a Real Office Space

Rachel Greene (United States of America)

S1_P010 | Characterizing radiation fog microphysics and radiative properties: from in situ and balloon observations to radiative closure using dual-level solar measurements

Katarzyna Nurowska (Poland)

S1_P011 | Satellite-Derived Vegetation (NDVI) and Air Pollutant Concentrations in a High-Traffic Urban Area of Kuala Lumpur

Murnira Othman (Malaysia)

S1_P012 | The elusive nitrate radical – Challenges of direct measurements of NO₃ and N₂O₅ in various European, forested environments at night.

Gunther N. T. E. Türk (Germany)

S1_P013 | Mapping NAT-Containing Polar Stratospheric Clouds in the Antarctic Stratosphere Using Nadir Infrared Radiance Observations

Manon Hermans (Belgium)

S1_P014 | Identifying gas- and particle-phase tracers to quantify chlorine oxidation in the remote troposphere

Seamus Frey (United States of America)

S1_P015 | Quantifying drivers of atmospheric formic acid evolution in large-scale South American wildfire plumes

Maria Paula Velásquez-García (United Kingdom)

S1_P016 | Ozone formation sensitivity based on the secondary formaldehyde-to-nitrogen dioxide ratio (FNR_{sec}) derived from ground-based remote sensing measurements and a chemical transport model

Nguyen Doan Thien Chi (Japan)

S1_P017 | Contribution of aerosols to ice-nucleating particles over the Arctic Ocean; focusing on bioaerosols from terrestrial ecosystems

Takeshi Kinase (Japan)

S1_P018 | Disentangling Vertical Transport and Oxidative Capacity as Drivers of Aerosol Variability at Jungfraujoeh

Julian Weng (Switzerland)

S1_P019 | A Molecular-Level View of Organic Aerosol Composition During Fog in the Italian Po Valley

Yvette Gramlich (Switzerland)

S1_P020 | Influencing Factors of High Nocturnal Atmospheric Chloride Aerosols at a Rural Site in the Pearl River Delta, China

Shan Huang (China)

S1_P021 | OH reactivity in the north-west Indo Gangetic Plain is controlled by alkenes and oxygenated VOCs

Sachin Kumar Mishra (India)

S1_P022 | Understanding Cloud Formation in Eastern Mediterranean Mountainous Environments

Olga Zografou (Switzerland)

S1_P023 | OH reactivity speciation, diurnal variability and seasonality in the megacity of Delhi quantified using PTR-TOF-MS, TD-GC-FID and CRDS measurements

(India)

S1_P024 | Novel heterogeneous halogen mechanisms inferred from ambient observations in a subtropical coastal city

Theodore K. Koenig (Hong Kong)

S1_P025 | The Chemical Fingerprint of PM₁₀ in the Eastern Mediterranean atmosphere

Kyriaki Papoutsidaki (Greece)

S1_P026 | Characteristics and Sources of Nitrous Acid (HONO) at a Coastal Site in Hong Kong

Zhong Jiali (Hong Kong)

S1_P027 | Seasonal Variability of Sugar Compounds in PM₁₀ in Artvin, Eastern Black Sea Region of Türkiye

D. Deniz Genc Tokgoz (Turkey)

S1_P028 | In Situ Observations of Reactive Chlorine in the Remote Marine Boundary Layer and its Implications for Methane Oxidation

Jake Vallow (United Kingdom)

S1_P029 | The Aerosols and fog in southern Africa: processes and impact on biogeochemistry (AEROFOG) project

Paola Formenti (France)

S1_P030 | Unravelling the Size-Dependent Formation Pathways and Light Absorption of Secondary Organic Aerosols in Inland and Coastal Indian Cities

Sathish Yasarapu (India)

S1_P031 | Towards harmonized measurements of aerosol precursors

Nina Sarnela (Finland)

S1_P032 | Long-term variability of black (BC) and brown carbon (BrC) absorption in the background Eastern Mediterranean

Anna Gkogkiasvili (Greece)

S1_P033 | Real-time field measurements of the heterogeneous uptake of HO₂ radicals onto ambient aerosols

Dwayne Heard (United Kingdom)

S1_P034 | A Detailed Study Calculating Hydroxyl Radical Concentration from Formaldehyde and VOC Measurements in the Marine Boundary Layer

Ambili Vallipparambil Babu (United Kingdom)

S1_P035 | Ten years of continuous aerosol filter sampling at the urban background Thissio Air Monitoring Station of the National Observatory of Athens in Greece: levels, composition and trends

Eleni Liakakou (Greece)

S1_P036 | Photochemical Evolution of Brown Carbon in Wildland–Urban Interface Fire Emissions

Sergey Nizkorodov (United States of America)

S1_P037 | Characterization and exposure risk of Polycyclic Aromatic Compounds (PACs) during multiple Wildfire (WFE) and Wildland–Urban Interface (WUI) events.

Irini Tsiodra (Greece)

S1_P038 | Photochemistry of Methylglyoxal and Methylglyoxal-NH₄⁺ Systems: Sources of Triplet Excited States Driving Organic Oxidation and Secondary BrC Formation

Chak Chan (Saudi Arabia)

S1_P039 | The Effect of Temperature on the Composition and Cloud Formation Activity of Secondary Organic Aerosol from Nighttime β -Caryophyllene Oxidation

Maria Angelaki (Denmark)

S1_P040 | Reactivity towards hydroxyl radicals and climate metrics of industrial 2-halobutanes, CH₃CHXCH₃CH₃ (X= F, Cl, Br, and I)

Elena Jiménez (Spain)

S1_P041 | Atmospheric Reactivity of Prenol, a Second-Generation Biofuel

Cécile Coeur (France)

S1_P042 | First Atmospheric Kinetic Study of the Cl Initiated Oxidation of 1,1,1-Trifluorobutane

Joan Pérez Pérez (Spain)

S1_P043 | Uptake of gaseous molecular iodine (I₂) by atmospheric droplets: an experimental and theoretical study

Enida Nushi (France)

S1_P044 | Slow bleaching of water-insoluble brown carbon from biomass burning: implication for direct radiative effect

Mikinori Kuwata (China)

S1_P045 | Gas-phase kinetics of octanal and nonanal: Reaction rate coefficients and aldehydic site branching ratio measurements

Maria Areti Spanoudaki (Greece)

S1_P046 | Ozonolysis induces liquid-liquid phase separation in aqueous trans-aconitic acid aerosol particles

Cynthia Antossian (Switzerland)

S1_P047 | Photons vs. radicals: Gas-phase degradation pathways of the aroma compound ethyl butyrate and its methylated derivatives

Finja Löher (United Kingdom)

S1_P048 | Rapid Aqueous-Phase Oxidation of An α -Pinene-Derived Organosulfate by Hydroxyl Radicals: A Potential Source of Some Unclassified Oxygenated and Small Organosulfates in the Atmosphere

Donger Lai (China)

S1_P049 | Kinetics of Atmospherically Relevant Hexenols with OH

Christin Fernholz (Germany)

S1_P050 | Chamber measurements of α -pinene SOA constituents using two different Extractive Electrospray Ionization (EESI) set-ups

Paula Senff (Germany)

S1_P051 | Identifying and Accessing Oxidant and Peroxy Radical Fates Relevant to Indoor Oxidation

Isabel Albores (United States of America)

S1_P052 | Direct observation of OH radicals desorbed from UV-irradiated goethite under water vapor conditions

Shota Saito (Japan)

S1_P053 | Chlorine-Driven Heterogeneous Aging of Isoprene-Derived Secondary Organic Aerosol: Insights from 2-Methyltetrol Oxidation

Guoyang Lei (Hong Kong)

S1_P054 | Bubbles Are Reactive: DMS Oxidation

Laurentiu-Gabriel Movila (France)

S1_P055 | Atmospheric Reactivity of First-Generation Terpene Oxidation Products (FGTOPs): Gas-phase Kinetics, Formation of Highly Oxygenated Molecules (HOMs), and Secondary Organic Aerosols (SOAs) from NO₃-Initiated Oxidation

Sandy Solaiman (France)

S1_P056 | Revealing Chemistry and Phase Behavior in Single Atmospheric Particles

Yeny Tobon (France)

S1_P057 | HCl Uptake on Silica Studied with a Knudsen Cell: Implications for Stratospheric Aerosol Injection

Anais Lostier (France)

S1_P058 | Aqueous-phase secondary organic aerosol formation on mineral dust

Zongbo Shi (United Kingdom)

S1_P059 | ACTRIS: a platform for advancing knowledge on short-lived atmospheric constituents

Giulia Saponaro (Finland)

S1_P060 | Kinetics and Spectra of Organic Peroxyl Radicals in the Aqueous Phase: A Laser-Based Study

Yimu Zhang (Germany)

S1_P061 | New Perspectives on Atmospheric Nitrogen Oxides Chemistry: The Role of the Air-Water Interface

Adrien Gandolfo (France)

S1_P062 | Simulation chamber study on the OH-initiated atmospheric oxidation of the biomass burning tracer syringol

Claudiu Roman (Ireland)

S1_P063 | Atmospheric Impacts of a Green Solvent - Ethyl Lactate

Salome Usakuhel Raymond (United Kingdom)

S1_P064 | Atmospheric Persistent Free Radical Chemistry of Pollen: Chemistry & Oxidative Stress

Stephanie Schneider (Canada)

S1_P065 | Decomposition of Hydrofluoroolefins in low NO_x environments

Matthew Taylor (Australia)

S1_P066 | Insufficient oxidation capacity in the photooxidation of aromatic VOCs reduces SOA yield: Smog chamber study

Tianzeng Chen (China)

S1_P067 | A comparison of ambient and chamber organic AMS spectra under varying R₀₂ regimes

Hannah Kenagy (United States of America)

S1_P068 | Atmospheric Aqueous-Phase Oxidation of Glyoxal and Methylglyoxal: A review on mechanistic pathways and kinetics comparison among radicals

Hao Wang (Hong Kong)

S1_P069 | Non-zero isotope fractionation coefficients in the CS₂ photo-oxidation reaction

Yuanzhe Li (Japan)

S1_P070 | Halogenated Olefins as HFC Alternatives: Atmospheric Implications of OH and Cl Reactions and the Need for Laboratory Studies

Vassileios Papadimitriou (Greece)

S1_P071 | Molecular level understanding of how aromatic hydrocarbons lead to particulate matter in urban environments

Siddharth Iyer (Finland)

S1_P072 | Resolving Aromatic Photo-Oxidation Mechanisms Using a Newly Developed Dual-Channel In Situ Sampling Systems

Yangang Ren (China)

S1_P073 | Impact of dissolved iron on atmospheric oxidation and secondary organic aerosols

Simon Rosanka (Germany)

S1_P074 | Impact of extended atmospheric aging on the hygroscopicity and cloud condensation nuclei activity of secondary organic aerosols from anthropogenic and biogenic origin

Supriya Dey (India)

S1_P075 | Online measurement of phase state changes in secondary organic aerosols from sabinene ozonolysis

Katja O. M. Åbom (Denmark)

S1_P076 | Iron Coordination Redirects Oxidant Formation in Aerosol Fenton-Like Chemistry

Daniele Scheres Firak (Germany)

S1_P077 | Secondary Organic Aerosol (SOA) formation through interconnected day- and night-time chemistry of α -Pinene

Peter Mettke (Germany)

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S1_P281 | Shipborne Eddy-Covariance Constraints on Arctic DMS Sea-Air Fluxes Across the Ice-sea Transition Zone

Yuqing Dai (United Kingdom)

Slot 2: Wednesday-Friday

S2_P282 | Globally influenced trends in trace gases over the tropical Atlantic Ocean: 20 years of measurements

Beth Nelson (United Kingdom)

S2_P283 | Coastal SMEAR- first results from a coastal Atmospheric Observatory in Tvärminne, Finland

Roseline Thakur (Finland)

S2_P284 | PAHs and trace metal deposition during the western Mediterranean MERITE cruise

Hanan Jafar (France)

S2_P285 | Impacts of Marine Halogens and Dimethyl Sulfide on Atmospheric Nitrate Aerosol Formation Mechanisms in China's Coastal Seas

Jianhua Qi (China)

S2_P286 | Spatiotemporal Patterns of non-Dust Fe in Marine Aerosol Revealed by Multiple Shipboard Online Measurements in the Northwest Pacific

Mei Zheng (China)

S2_P287 | Modelling the impact of sea salt aerosol on atmospheric HCl formation over the UK

Damaris Tan (United Kingdom)

S2_P288 | Connecting Field Observations and Numerical Model Representations of Marine Organic Aerosols in Pristine Southern Ocean Air Masses

Tiantian Zhu (United States)

S2_P289 | Biogenically driven marine organic aerosol production over the West Pacific Ocean

Yujue Wang (China)

S2_P290 | Modelling marine phytoplankton growth dynamics under varying nutrient regimes using machine learning

Chao Zhang (China)

S2_P291 | New Observational Insights into the Marine Sulfur Cycle from the NE Springtime Atlantic Ocean

Hugh Coe (United Kingdom)

S2_P292 | Chemical composition differences in gas- and particle-phase organic and DMS-derived oxidation products between a pristine marine environment and a wildfire-influenced marine air mass

Félix Sari Doré (Sweden)

S2_P293 | Iron-containing aerosols and mineral dust in the atmosphere of the Indian Ocean

Haseeb Hakkim (Germany)

S2_P294 | Oceanic iodine emissions and climate change

Ryan Pound (United Kingdom)

S2_P295 | Quantifying long-chain carbonyl emissions from abiotic oxidation of phytoplankton-derived lipids: Implications for marine Secondary Organic Aerosol formation

Carla Benischowski (Germany)

S2_P296 | Impact of sea-to-air DMS emission fluxes over the Eastern Mediterranean

Dimitrios Kourakos (Greece)

S2_P297 | Black Carbon and PAHs distributions in the open NE Mediterranean Sea: atmosphere-ocean dynamics and biogeochemical processes drive anthropogenic carbon sequestration to the deep sea

Ester Skylaki (Greece)

S2_P298 | Land-Sea Interactions Lead to Contrasting Fates of Aliphatic and Aromatic Intermediate Volatile Organic Compounds

Li Xu (China)

S2_P299 | Global CO emissions and drivers of atmospheric CO trends constrained by MOPITT satellite measurements

Zhe Jiang (China)

S2_P300 | Trends of rainwater ions (Na⁺, K⁺, Cl⁻) under the influence of the West African Monsoon in the wet savanna of Lamto, Côte d'Ivoire
Evelyne Touré (Côte D'Ivoire)

S2_P301 | Extreme weather events and their impacts on air quality
Yang Gao (China)

S2_P302 | Exploring the Global Absorption from Brown Carbon in Fire Smoke
Maximilian Harvey (Switzerland)

S2_P303 | Stress is in the Air: BVOC emissions from beech and oak trees under combined heat stress and herbivory feeding
Clémence Depp (Germany)

S2_P304 | Atmospheric Oxidative Capacity over Heterogeneous Urban Surfaces in the Greater Houston Metropolitan Area
Akinleye Folorunsho (United States of America)

S2_P305 | Increasing Wildfire Contributions to Ambient Polycyclic Aromatic Hydrocarbons across North America
Jun Meng (United States of America)

S2_P306 | The Controlled Combustion of Common Australian Hardwoods, Softwoods, and Grasses to Identify Unique Biomass Burning Marker Fingerprints
Harrison Stevens (Australia)

S2_P307 | Regional Methane Emissions: A comparison of different emission inventories and flux estimate techniques in strong emitting regions
Linda Ort (Germany)

S2_P308 | Chiral Volatile Organic Compound Fluxes from Soil in the Amazon Rainforest across seasons
Johanna Schüttler (Germany)

S2_P309 | Effects of Warm and Dry Conditions on Land–Atmosphere Exchange of Ozone and Biogenic VOCs
Eran Tas (Israel)

S2_P310 | Field and Laboratory Evidence of Enhanced Volatile Organic Compounds Emissions and New Particle Formation Following Organic Fertilizer Application
Raluca Ciuraru (France)

S2_P311 | Effective Parameterisations for Ozone Dry Deposition
Flossie Brown (Switzerland)

S2_P312 | Assessing the atmospheric processes affecting chemical communication channels within natural ecosystems
Sophie Auger (France)

S2_P313 | Dust-Induced Losses in Solar Photovoltaic Potential and Their Long-Term Changes over North Africa

Yawen Liu (China)

S2_P314 | Bridging atmospheric chemistry and terrestrial biogeochemistry to advance the understandings of nitrogen-climate interactions

Cheng Gong (Germany)

S2_P315 | Nocturnal vertical gradients in O₃, NO and NO₂ in a boreal forest: The role of chemical reactions, deposition and entrainment

Simone Thirstrup Andersen (Germany)

S2_P316 | Urban Ozone Trends in Europe and the USA 2000-2021

Will Drysdale (United Kingdom)

S2_P317 | Uncertainties in lightning prediction

Andrea Pozzer (Germany)

S2_P318 | How Acute Heat and Compound Stress Reshape the Temperature Sensitivity of Terpenoid Emissions: Experiment from Urban Tree Species Linden and Chestnut

Biplob Dey (Germany)

S2_P319 | Assessing biogenic fluxes and their influence on atmospheric composition: sensitivity to land-surface data and process parameterizations

Alba Badia (Spain)

S2_P320 | Boreal biogenic secondary organic aerosol exhibits transparent optical properties under pristine environment

Qianzhe Sun (Japan)

S2_P321 | BVOC measurements in the Amazon rainforest: Results from vertically resolved long term measurements

Achim Edtbauer (Germany)

S2_P322 | Volcanic Forcing, Climate Change, and Architectural Adaptation in Ancient China (3rd–6th CE)

Siyang Li (China)

S2_P323 | Comparison of a global BVOC emission inventory with measured fluxes over a mixed temperate forest

Jana Markova (Czech Republic)

S2_P324 | Top-down methanol emissions from spaceborne (IASI) columns and aircraft campaign data

Jean-Francois Muller (Belgium)

S2_P325 | Climate and environmental analysis in the EARTHONE project: Progress in multi-scale modelling and phenological assessment

Nikolaos Daskalakis (Germany)

S2_P326 | Beyond Tailpipes: Chemical Fingerprints of Asphalt and Tire Emissions in the Transitioning Urban Atmosphere

Antoine Roose (France)

S2_P327 | Mirror image molecules and low volatility organic compounds emissions expose state of rainforest stress

Joseph Byron (Germany)

S2_P328 | Disentangling Radiative and Biogeochemical Drivers of the Global Methane Cycle Under Idealised $\pm 1\%$ CO₂ Trajectories in UKESM1-ems

Gerd Folberth (United Kingdom)

S2_P329 | Modeling Hydrogen Soil Deposition Velocity Under Elevated H₂ Concentrations in the Sonoran Desert

Genevieve Porter (United States of America)

S2_P330 | Three Decades of Atmospheric Trace Gases at the Puy de Dôme Observatory (1995–2024): Long-term trends and variability

Aurélie Colomb (France)

S2_P331 | Sources and variability of volatile organic compounds and organic aerosols during the Integreen 2025 summer campaign in a public garden of Paris

Valerie Gros (France)

S2_P332 | Assessing the new MEGAN v3.2 drought stress algorithm for isoprene fluxes using field data and global CrIS observations

Beata Opacka (Belgium)

S2_P333 | Resolving In-Canopy Controls on VOC and Ozone Exchanges: a Multi-Layer Canopy Model Intercomparison Constrained by Above- and Below- Canopy Flux Observations

Bert Verreyken (Belgium)

S2_P334 | Uncertainty of the global biogenic VOC emissions: example of isoprene

Katerina Sindelarova (Czechia)

S2_P335 | Recent Trends in Total Column Methane in the Southern Hemisphere

Clare Murphy (Australia)

S2_P336 | Speciation of VOCs in the Alaskan Boreal Forest during the DENALI Summer Campaign in 2025

Eva R. Kjærgaard (Denmark)

S2_P337 | Characterising boreal forest fire aerosol: insights from field and laboratory measurements

Saara Peltokorpi (Finland)

S2_P338 | Investigations into the Degradation Processes and Atmospheric Interactions of Nanoplastics

Anna Murdoch (Finland)

S2_P339 | Multi-Year Simulations of the Global Atmosphere: The Effect of Biomass Burning Emissions

Konstantina Paraskevopoulou (Greece)

S2_P340 | Lake-Atmosphere VOC Exchange and Water Column Dynamics in Lake Geneva

Mehrshad Foroughan (Denmark)

S2_P341 | Mercury wet deposition at a regional site in the South African interior

Liezl Bredenkamp (South Africa)

S2_P342 | Hydroxyl (OH) interannual variability shows large impacts on estimation of regional methane emissions

Prabir Patra (Japan)

S2_P343 | Seasonal Dynamics and Micro-Scale Spatial Variability in Airborne Microplastic Particle Deposition

Myriam Younes (Germany)

S2_P344 | Sources and Physicochemical Properties of High Latitude Dust

Deepchandra Srivastava (United Kingdom)

S2_P345 | GFAS4HTAP - A comprehensive fire emission dataset for studying the atmospheric impact of vegetation fires during the MODIS era

Johannes Kaiser (Norway)

S2_P346 | Environmental Lipidomics: Application in atmospheric sciences

Kalliopi Violaki (Switzerland)

S2_P347 | Molecular Insights into Seasonal Formation of Organosulfates in the Mountain Atmosphere

Youwei Hong (China)

S2_P348 | Microplastic identification using a SwisensPoleno Jupiter: a Laboratory experiment to prove feasibility

Cyril Charriaud (Switzerland)

S2_P349 | Deep Learning-Based Estimation of PM_{2.5} Over the Bohai Sea: Implications for Land-to-Sea Atmospheric Transport

Huiwang Gao (China)

S2_P350 | Near real-time measurements of oxidized organics in cloud droplets highlight discrepancies from gas-droplet partitioning via Henry's Law

John Liggio (Canada)

S2_P351 | Advancing IGAC's Mission Through Open-Access Publishing: A Decade of Atmospheric Science in Elementa

Detlev Helmig (United States of America)

S2_P352 | Tropical cyclones drive enhanced inorganic iodine in the mid-latitude upper troposphere

Karolin Voss (Germany)

S2_P353 | Global budgets of atmospheric primary and secondary organic aerosols based on the simulation for full-volatility-range organic precursors

Ruqian Miao (China)

S2_P354 | Sources of aerosol water-soluble organic nitrogen at the Cape Point GAW station

Mishka Rawatlal (South Africa)

S2_P355 | Modelling of atmospheric phosphorus in the eastern Mediterranean atmosphere

Tania Liartsi (Greece)

S2_P356 | Tropospheric Budgets and Stratospheric Impacts of Iodinated Very Short-Lived Substances

Zihao Wang (United Kingdom)

S2_P357 | PIANO@Patras: Chamber experiments for studying the cloud-relevant properties of natural aerosol

Carolina Molina (Greece)

S2_P358 | History and Accomplishments of the World Meteorological Organization Global Atmospheric Watch Scientific Advisory Group on Reactive Gases

Detlev Helmig (United States of America)

S2_P359 | HTAP3-OPNS: Ozone, PM, Nitrogen and Sulphur Deposition - multi-model experiments to support the revision of the CLRTAP Gothenburg Protocol

Tim Butler (Germany)

S2_P360 | Tropospheric and stratospheric ozone: does Effective Radiative Forcing improve on the traditional Radiative Forcing measure?

William Collins (United Kingdom)

S2_P361 | A chemical bond-centred approach to the tropospheric ozone budget in CMIP6 historical simulations

Helena King (United Kingdom)

S2_P362 | Meteorological Modulation of Sea Spray Aerosol Impacts on Ozone Formation Over China: Heterogeneous Chlorine Reactions and Radiative Effects

Yingying Hong (China)

S2_P363 | Temporal Source Apportionment of Ozone Pollution over the Greater Bay Area in Southern China

Yiang Chen (China)

S2_P364 | Effects of climate warming and precursor emission changes on surface ozone air quality: a multi-model case study for Austria

Harald Rieder (Austria)

S2_P365 | From Continental to Street Scales: Climate Change Impacts on Atmospheric Composition over Europe, UK and London

Ruth Doherty (UK)

S2_P366 | How Heatwaves Reshape Ozone Budgets over the UK: Transport and Chemistry Interactions within the PBL

Andrea Mazzeo (United Kingdom)

S2_P367 | Quantifying the avoided tropospheric ozone radiative forcing from US air pollution controls

Stephanie Elkins (USA)

S2_P368 | Typhoon Subsidence Intensity Switches the Mechanism of Urban Surface-Ozone Spikes: Tall-Tower Flux Evidence from the Pearl River Delta

Xinming Wang (China)

S2_P369 | Summertime ozone sensitivity to temperature in China: observational evidence and mechanistic attribution in urban and rural areas in the Yangtze River Delta region

Chang Su (United Kingdom)

S2_P370 | Characterizing Surface Ozone in South Korea: Long-term Trends and Precursor Emission Analysis for National Reduction Strategies

Jihyun Han (Republic of Korea)

S2_P371 | Ozone interactions with climate change: drivers and long-term trends | key findings from the Tropospheric Ozone Assessment Report Phase-II

Owen Cooper (United States of America)

S2_P372 | How does a free-running thermodynamic variable configuration in a global chemical transport model alter the simulated chemical composition?

Aditya Nalam (Czech Republic)

S2_P373 | Tropospheric Ozone Assessment Report II: Past and present tropospheric ozone using satellite observations

Daan Hubert (Belgium)

S2_P374 | Contrasting air pollution trends and surface temperature in Asia from satellite observations over 2008-2025

Selviga Sinnathamby (France)

S2_P375 | WRF-Chem evaluation of ground-level O₃ and PM in urban environments for Germany under different NMVOC speciation profiles

Edward Chan (Germany)

S2_P376 | Climate-methane cycle feedback in the MIROC-ES2L-CHEM Earth system model

Takashi Sekiya (Japan)

S2_P377 | Quantifying Drivers of Tropospheric OH and Its Trends: Sensitivity to Atmospheric Processes and Implications for Methane Lifetime

Xuewei Hou (United Kingdom)

S2_P378 | Moving Beyond Prescribed Concentrations: Interactive CH₄ and H₂ in an Emission-Driven Earth System Model

Avelino Arellano (United States of America)

S2_P379 | Improving tropospheric chlorine for methane isotopologues in UKESM

Laura Stecher (United Kingdom)

S2_P380 | Climatic and air quality impacts from a range of scenarios limiting warming to 1.5 K.

Charlotte Alexander (United Kingdom)

S2_P381 | Quantifying contemporary OH and Cl radicals impacts on the CO and CH₄ budget during 2003-2022, the importance of chemical complexity

Benjamin Gaubert (US Virgin Islands)

S2_P382 | Climate Impact of Various Methane Removal Strategies in Atmosphere

Qimin Sun (United Kingdom)

S2_P383 | Role of methane mitigation in future climate change

Jacob Luke-Clements (United Kingdom)

S2_P384 | DMS uplift by tropical cyclones as a source of SO₂ in the upper troposphere

Sijia Lou (China)

S2_P385 | Evaluating chemistry-coupled regional climate simulations over Europe

Natália Machado Crespo (Czech Republic)

S2_P386 | Ammonia emissions in contiguous United States derived using CrIS observations combined with Bayesian inverse modelling

Nikolaos Evangeliou (Norway)

S2_P387 | Spatiotemporal Distribution of Ammonia and Its Affecting Factors Across Africa

Farhan Mustafa (Morocco)

S2_P388 | Leveraging WRF-Chem and IASI for seasonal insights into ammonia emissions over the Benelux and neighboring regions

Marco Hufnagel (Belgium)

S2_P389 | Data-Driven Approach to Estimate Ambient Ammonia Concentrations

Amitabha Govande (Netherlands)

S2_P390 | Gridded Inventory of Livestock Ammonia Emissions in Colombia Using a Process-Based Emissions Model

Saul Martinez Molina (Colombia)

S2_P391 | Impact of Meteorological Factors on Seasonal Agro-Industrial NH₃ Point Source Emissions

Serra Saraçoglu (Turkey)

S2_P392 | Impact of present-day and future agricultural ammonia emissions on atmospheric chemistry and climate

Maureen Beaudor (France)

S2_P393 | A super dust storm enhanced by radiative feedback

Yu Chen (China)

S2_P394 | Assessing the Global Radiative Forcing of Wildfire Emissions

Rafaila-Nikola Mourgela (Greece)

S2_P395 | Long-term tropospheric composition trends and wildfire-induced enhancements: insights from the NDACC ground-based FTIR and chemical transport models

Ivan Ortega (United States of America)

S2_P396 | Climate-Fire-Vegetation-Air Quality feedbacks from using an interactive Wildfire model within an Earth System Model

Steven Turnock (United Kingdom)

S2_P397 | Observed hemispheric influence of wildfire extremes on ozone air quality

Ke Li (China)

S2_P398 | The Australian 2019/2020 Wildfire Season and Climate-Chemistry Connections

Rebecca Buchholz (United States of America)

S2_P399 | Compound Events: Heatwaves, Wildfires and Air Quality for Present Day and Future

Reese Burrow (United Kingdom)

S2_P400 | From Flames to Lungs: Health effects of reactive fire plume pollutants in adults and children

Eleni Dovrou (Greece)

S2_P401 | Global Emissions Initiative (GEIA) – IGAC Activity

Brian McDonald (United States of America)

S2_P402 | Simulating Tropospheric CO Using Deep Learning

Belkis Asma Semcheddine (Germany)

S2_P403 | High-Resolution Spatial and Temporal Disaggregation of Chilean Transport Emissions (2015-2050): Comprehensive Modeling Framework for Road, Maritime and Aviation Sectors

David Bevilacqua (Chile)

S2_P404 | Atmospheric and Climate Impacts of Aviation NO_x Emissions

Tanusri Chakraborty (United Kingdom)

S2_P405 | The atmospheric impact of aviation NO_x emissions during COVID-19: UKESM modelling and observational constraints using CMIP7 historical emissions

Charlie Wartnaby (United Kingdom)

S2_P406 | The analysis of the NO_x emission in urban areas using recent satellite observations and a chemistry-transport model

Yousuke Yamashita (Japan)

S2_P407 | On the Roles of Local Controls and Global Drivers of air pollution health burdens: A case study for Austria

Monika Mayer (Austria)

S2_P408 | Greenhouse gases levels in port areas and open seas in Greece

Aikaterini Bougiatioti (Greece)

S2_P409 | Impacts of Northward Typhoons on Autumn Haze Pollution Over North China Plain

Ke Ding (China)

S2_P410 | Joint Impacts of Climate Change and Emissions Trajectories on Future Polycyclic Aromatic Hydrocarbon Chemistry and Exposure

Lexia Ciccone (USA)

S2_P411 | High Time Resolution PM₁ Monitoring Reveals Urban Pollution Episodes and Aerosol Dynamics in İstanbul, Türkiye

Fatma Ozturk (Turkey)

S2_P412 | Seasonal variation in hourly and daily CO₂ mixing ratio in the Metropolitan Area of São Paulo, Brazil

Bruna Lüdtke Paim (Brazil)

S2_P413 | Heterogeneous Ozonolysis of Biogenic VOCs on Mineral Surfaces: Kinetic Effects of Humidity, Surface Nature, and Particle Size

Mohamad Ghaleb Alossaily (France)

S2_P414 | Composition and sources of VOC gaseous precursors at a subtropical forested site in the megacity of São Paulo: strong regional anthropogenic signature shaped by atmospheric dynamics

Marie Bertrand (France)

S2_P415 | Urban VOCs in Berlin and Barcelona: Spatial and Seasonal Variability at Background and Traffic Sites

Madeleine Falkowski (Germany)

S2_P416 | Characterizing ambient volatile organic compounds in Southern Africa using continuous TD-GC-MS monitoring

Boitumelo K. Nokeri (South Africa)

S2_P417 | Global Overview of Volatile Organic Compounds (VOCs) in situ observations: Composition, Variability, and Research Gaps from a newly created public data directory

Pamela Dominutti (France)

S2_P418 | Explaining the variability and trends in spaceborne formaldehyde data in Africa for 2005-2020

Jenny Stavrakou (Belgium)

S2_P419 | Impact of combined stressors on SOA formation from oak emissions

Eva Y. Pfannerstill (Germany)

S2_P420 | How does pollution exposure reshape BVOC storage capacity and emission dynamics from urban vegetation?

Shahid Naqui (Cyprus)

S2_P421 | Evaluation of atmospheric gaseous passive samplers through comparison with active in situ measurements

Cara la Grange (South Africa)

S2_P422 | Investigating aerosol effects on tropospheric gas-phase photochemistry

Clara Nussbaumer (Switzerland)

S2_P423 | OMI and TROPOMI: multi-faceted, long-term data record for tracking global aerosol transport events

Deborah Stein Zweers (Netherlands)

S2_P424 | Decadal-Scale Observations of Trends in Sulfate and Radiation Over Northern Indian Ocean

Manoj Remani (Sweden)

S2_P425 | The overlooked high-frequency elevated aerosol layers and their impact on radiative forcing and air pollution

Xipeng Jin (China)

S2_P426 | High-resolution coastal AOD climatology for all littoral capitals in Northeast Brazil from MAIAC (2000–2023)

Judith Hoelzemann (Brazil)

S2_P427 | Geographical Characteristics of Raindrop Size Distribution in Warm Cloud Precipitation Across Western Taiwan

Chian-Yi Liu (Taiwan)

S2_P428 | Integrated assessment of aerosol variability over East Asia using an Earth system model and long-term observations

Ankan Sarkar (Japan)

S2_P429 | Ship emissions: the implementation of the International Maritime Organization (IMO) 2020 regulation and its environmental and climatic impact on the central Mediterranean Sea.

Silvia Becagli (Italy)

S2_P430 | Development of MRI-ESM3 and evaluation of black carbon in East Asia

Naga Oshima (Japan)

S2_P431 | Long term variability of carbonaceous aerosols in a West African savanna over a 15 year-period (Lamto, Côte d'Ivoire)

Arsène Ochou (Côte D'Ivoire)

S2_P432 | Observational Constraints on Atmospheric Black Carbon in the Climate System: 20-year investigation at the Maldives Climate Observatory Hanimaadhoo (MCOH) and Global Outlook

Örjan Gustafsson (Sweden)

S2_P433 | Optical and chemical characterization of brown carbon in the Eastern Mediterranean: source apportionment and radiative implications

Despina Paraskevopoulou (Greece)

S2_P434 | Transboundary aerosol amplification: how Indian pollution reaches China through climate feedbacks

Xinyang Guo (China)

S2_P435 | Beyond Mass: Intersecting Social Variables and Environmental Factors with the Carbonaceous Composition of Fine Particulate Matter in the Aburrá Valley.

Santiago Franco Carvajal (Colombia)

S2_P436 | On-Road Measurements and Characterization of Tire-wear Particle and Gaseous Emissions

Elizabeth Defrance (United States of America)

S2_P437 | Contribution of Road Traffic and Railway Emissions to the Oxidative Potential of PM10: A Multi-Site Study in Reims (France)

Ludovic Farnier (France)

S2_P438 | Three Decades of Urban Aerosol Evolution: Long-term Trends and Source Dynamics in Central Europe (1993–2026)

Zsafia Kertesz (Hungary)

S2_P439 | Assessment of OC and EC at the regional background site Welgegund in South Africa

Pieter Gideon Van Zyl (South Africa)

S2_P440 | Trends in the speciation of aerosols and gaseous air pollutants in Taiwan over two decades: Implications for the changing atmospheric composition in East Asia

Charles Chou (Taiwan)

S2_P441 | Projections of Particulate Matter Concentrations in Austria under Future Biomass Heating and Climate Scenarios using High-Resolution Chemistry-Transport-Model Simulations

Christian Schmidt (Austria)

S2_P442 | Comparative analysis of ultrafine particles across different sites in Berlin

Himanshu Setia (Germany)

S2_P443 | Chained Chemical and Radiative Impacts from Black Carbon Aging in Urban Atmosphere: Measurement-based evidence in the ASIA-AQ Campaign

Changdong Yun (Korea, Republic of)

S2_P444 | Impact of boreal biomass burning emissions on atmospheric composition and air quality

Zosia Staniaszek (Norway)

S2_P445 | Seasonal associations between PM₁₀ mass, carbonaceous fractions, and oxidative properties in an urban area in Morocco.

Nongma Kabore (Germany)

S2_P446 | Impact of Climate Change and Mitigation of Residential Emissions on Future Air Quality in Central-South Chile

Nicolas Huneeus (Chile)

S2_P447 | Investigating Drivers of Cloud Condensation Nuclei in the Baltimore, Maryland Area during the CoURAGE Campaign

Stephanie Jacoby (United States)

S2_P448 | Diurnal cycle of PM₁₀ over the Metropolitan Area of Porto Alegre, Brazil, using 23 years dataset from regulatory monitoring network.

Gabriel Bonow Münchow (Brazil)

S2_P449 | Understanding trends of ultrafine particles, black carbon and PM₁₀ concentrations at a suburban site in the southeastern Mediterranean region

Sofia Eirini Chatoutsidou (Greece)

S2_P450 | Long-term variations of chemical composition of PM_{2.5} in China

Qi Chen (China)

S2_P451 | Chemical characterization of non-refractory submicron (PM₁) aerosol particles at a coastal site in Namibia

Daniel Tetteh Quaye (Germany)

S2_P452 | Decadal Changes in PM₁ Chemical Composition and Organic Aerosol Sources at the Central European Background Station Melpitz (Germany)

Samira Atabakhsh (Germany)

S2_P453 | Assessment of particulate and gaseous pollutant emissions in Africa
Sekou Keita (Côte D'Ivoire)

S2_P454 | Future Climate Influence on PM_{2.5} and Ozone in India using WRF-Chem under CMIP6 Pathway SSP3-7.0
Vaishnavi Selvathirumal (India)

S2_P455 | Dual-isotope constraints ($\delta^{13}\text{C}/\Delta^{14}\text{C}$) on Delhi wintertime black carbon sources and health impacts
Sean Clarke (Sweden)

S2_P456 | Estimating public health and environmental justice co-benefits of decarbonization at local-to-hemispheric scale
Amir Hakami (Canada)

S2_P457 | Investigating the impacts of air pollution and heat in peri-urban areas in Africa
Rebecca Garland (South Africa)

S2_P458 | Cumulative effect of poor air quality and meteorological extremes (heatwaves, cold waves, and droughts) on public health in the Metropolitan Region of São Paulo
Rafaela Silva Ramos (Brazil)

S2_P459 | Assessment of the impact of anthropogenic emission mitigation strategies on air quality in 2035 in the city of Abidjan (Côte d'Ivoire)
Sylvain Gnamien (Côte d'Ivoire)

S2_P460 | The role of emissions and climate change in future Central European air-quality
Alvaro Patricio Prieto Perez (Spain)

S2_P461 | Co-occurring climate and air pollution extremes in China: mechanistic understanding and mitigation
Meng Gao (Hong Kong)

S2_P462 | Multi-source Remote Sensing Observation of Aerosol Composition and Simulation of Its Radiative Effects
Lei Li (China)

S2_P463 | Advancing Mineral-Resolved Dust Aerosol Modeling: METAL-WRF Capabilities for Chemistry, Radiation, and Ecosystem Coupling
Stavros Solomos (Greece)

S2_P464 | Improving the simulation of organic aerosol in an Earth System Model using the Volatility Basis Set
Stylianios Kakavas (Greece)

S2_P465 | Mainz Convective Transport and Scavenging: A step towards a comprehensive description of convection-chemistry-interaction in global chemistry-climate simulations

Adrienne Jeske (Germany)

S2_P466 | Stratospheric and Tropospheric Tracer Correlations in the Mid-Latitude UTLS During Wintertime

Jason Miech (United States of America)

S2_P467 | Transportation versus local production: A seasonal shift in Isoprene sources in a semi-arid Botswana woodland savanna

Yang Liu (Finland)

S2_P468 | NSF NCAR's Transition from WRF-Chem to MPAS-A with Chemistry and Aerosols

Mary Barth (United States of America)

S2_P469 | QUACS: A Scripting Framework for Next-Generation Atmospheric Chemistry Modeling Cyberinfrastructure

Avelino Arellano (United States of America)

S2_P470 | Identifying Spatially Structured Climate and Composition Changes from Satellite-Derived Observations

Lucie Gilbert (Belgium)

S2_P471 | Meteorological Drivers of Aerosol Chemical Composition Inside and Outside the Dense Urban Area of the Metropolitan Area of São Paulo (MASP): Insights from Interpretable Machine Learning

Lucas Chiari (Brazil)

S2_P472 | DispAtlas: A multi-mode framework for automated dispersal pathway analysis and exposure estimation of short-lived atmospheric pollutants

Alexandros Panagiotis Poulidis (Germany)

S2_P473 | Assessing the Impact of Temporal and Spatial Emission Variability on Air Quality Simulations Using MUSICAv0 and NASA TEMPO

Bianca Meotti (United States of America)

S2_P474 | CREDIT-Chem: NSF NCAR AI Foundation Model for Atmospheric Chemistry and Aerosol Prediction - Preliminary Results over CONUS

Alma Roux (United States of America)

S2_P475 | AI vs. CTM: New air quality forecast approaches for São Paulo

Andrea Orfanos-Cheuquela (Germany)

S2_P476 | Advancing Forecasting, Research, and Integrated Collaboration for African Air Quality (AFRICA-AQ)

Noribeth Mariscal (Germany)

S2_P477 | Modelling the inter-relationship between atmospheric methane and hydrogen

David Stevenson (United Kingdom)

S2_P478 | Calibrating a global chemistry transport model for tropospheric ozone and OH

Oliver Wild (United Kingdom)

S2_P479 | North America Working Group for Integrated Air Quality Research

Katherine Travis (United States of America)

S2_P480 | Thermal and spectral cameras: new tools to reduce environmental hazard.

Alexandre Roy (Canada)

S2_P481 | Model Evaluation of Iron-containing Aerosols from Anthropogenic and Lithogenic Sources Based on Observations from 2003 to 2022

Akinori Ito (Japan)

S2_P482 | Investigation of European atmospheric ammonia using modelling and satellite data

Matthew Alexander (United Kingdom)

S2_P483 | Understanding NO_x emission changes from 2019 to 2023 in the EMME region through variational inversions and satellite data

Rimal Abeed (Cyprus)

S2_P484 | Exploring current and future gas-fired power plant NO_x emissions and their impact on the ozone production regime in the Greater Toronto Area

Isabelle Renee Lao (Canada)

S2_P485 | Satellite-constrained NO_x emissions in the Netherlands from TROPOMI observations using a flux divergence approach.

Felipe Cifuentes (Netherlands)

S2_P486 | CO hourly changes over Europe and Africa as seen by satellite

Antoine Comiant (Belgium)

S2_P487 | Inverse analysis of atmospheric CO using NISMOM-CO and GOSAT-2

Yosuke Niwa (Japan)

S2_P488 | Deep Learning Retrieval of Tropospheric Ozone from High-Resolution Satellite Data

Noam Ginio (Israel)

S2_P489 | Evaluation of modelled versus observed urban NMVOC in Barcelona (Spain)

Kevin Oliveira (Spain)

S2_P490 | On the connections between modeled and observed tropospheric ozone distributions from the perspective of model validation and postprocessing

Jan Peiker (Czech Republic)

S2_P491 | Short-Range Ozone Forecasting Using a Message Passing Neural Network

Hannah E. Kessenich (New Zealand)

S2_P492 | Improving Air Quality Predictions with ASIA-AQ Observations of VOCs

Louisa Emmons (United States of America)

S2_P493 | Nitrous Acid (HONO) Retrieval Algorithm in Asian Wildfire Plumes using GEMS UV Spectra

Hyeji Cha (Republic of Korea)

S2_P494 | Improved modelling of biogenic emissions in human-disturbed forest edges and urban areas

Yanli Zhang (China)

S2_P495 | Revised global methane budget inferred from inverse analysis of integrated methane and isotope observations

Xiao Lu (China)

S2_P496 | Observation and modeling study of total peroxy radicals and OH reactivity in urban and rural areas of China

Weijun Zhang (China)

S2_P497 | Multi-model Investigation of Drivers of Surface Ozone and PM_{2.5} in Southeast Asia

Katherine Travis (United States of America)

S2_P498 | Integration of the Modal Aerosol Model (MAM) in the GEOS-Chem chemistry transport model: implementation, evaluation and impacts.

Fabien Solmon (Switzerland)

S2_P499 | Point-source plume forecasting for field campaigns: Comparison of ensemble members to a measured event during the CINDI-3 campaign.

Mihalis Vrekoussis (Germany)

S2_P500 | Multi-Model Evaluation of Air Quality Simulations Across South American Cities

Pablo Lichtig (Argentina)

S2_P501 | Physically Informed Machine Learning for Urban Air Quality Downscaling: Integrating CAMS Reanalysis and an Urban CTM

Martin Otto Paul Ramacher (Germany)

S2_P502 | Improving Forecast Skill for Delhi's PM_{2.5} During the Crop-Residue Burning Season and beyond

Prabir Patra (Japan)

S2_P503 | Modeling organic aerosol concentrations and oxidation state during the SPRUCE-22 field campaign

Petro Uruci (Greece)

S2_P504 | Mixing State and Morphology of Individual Aerosol Particle by UAV-Based Near-Source In-Plume Observations

Qi Yuan (China)

S2_P505 | Atmospheric organic aerosol age distribution over Europe during a period with intense wildfires

Petro Uruci (Greece)

S2_P506 | Comprehensive and highly time-resolved measurements of non-methane volatile organic compounds in the Tokyo metropolitan area of Japan

Satoshi Inomata (Japan)

S2_P507 | Development of a PM_{2.5} estimator over South Korea combining geostationary satellite information with a machine learning technique

Jeeho Kim (Republic of Korea)

S2_P508 | Spectroscopic investigations of mining residues drying kinetics to predict and prevent fugitive dust emission

Gilles-Alex Dessap Pefete (Canada)

S2_P509 | Hyperlocal PM_{2.5} exposure and health burden disparities revealed by a taxi-based mobile monitoring platform in Shenzhen

Zilin Guo (China)

S2_P510 | Multisite monitoring to better understand sources and impacts of VOCs in an industrial area in the South of France

Liselotte Tinel (France)

S2_P511 | Assessing PM₁ Spatial Variations and Community Sources in Taiwan with Research-grade Low-cost Sensors

Shih-Chun Lung (Taiwan)

S2_P512 | Enhancing sensor-based air quality monitoring through long-term performance evaluation, development of localised calibration models and real-time sensor data management

Emil Varghese (India)

S2_P513 | Airtox: A Next-Generation PTR-Based Instrument for Autonomous Long-Term VOC Monitoring

Spiro Jorga (Switzerland)

S2_P514 | Real-time measurements using GC-PTR-MS of common VCPs in an urban environment

Jillian Downey (Canada)

S2_P515 | Local Scale Multi-model Based Source Tracing Methods of Volatile Organic Compounds-Examples in Petrochemical Industrial Cluster

Xiang Che (China)

S2_P516 | Independent Sensor Measurements: a framework for more transparent air-quality sensor data products

Sebastian Diez (Chile)

S2_P517 | Allin-Wayra: small sensors for atmospheric science

Sebastian Diez (Chile)

S2_P518 | The Regional Air Quality Measurement Network in Crete: A Collaborative Initiative Between Academia and Regional Authorities

Nikos Kalivitis (Greece)

S2_P519 | Gold Nanomaterials for Low-Cost, Miniaturized Point-of-Need Sensors: Experimental Characterization and SCUFF-EM Modeling

Juan Francisco Galicia López (Mexico)

S2_P520 | Air pollution to photon: Engineering Blue-Emissive Carbon Nanomaterials from Atmospheric Particulate Matter for Sustainable Nanofertilizers and Clean Energy Applications

Nazrul Islam (India)

S2_P521 | Vacuum ultraviolet photoionization mass spectrometry and its applications in atmospheric chemistry

Nana Wei (China)

S2_P522 | Assessment of Linear and Non-linear Models for Field Calibrating of Particulate Matter Monitors in Airsens Air Quality Device

Clement Ajani (Morocco)

S2_P523 | Assessing Air Pollution Drivers in Asia Through Multi-Species Data Assimilation During NASA's ASIA-AQ Campaign

Jinkyul Choi (United States of America)

S2_P524 | Constraining Autoxidation and Multiphase Processing in Model Simulations of Biogenic SOA: Insights from AIDA Chamber Experiments

Laurie Novak (Netherlands)

S2_P525 | Southern Hemisphere Additional Ozonesondes (SHADOZ) Network Updates and Tropospheric Ozone Trends for the TOAR-II Activity

Debra Kollonige (United States of America)

S2_P526 | Earth's Atmosphere Through Multiple Lenses: NASA's Integrated Approach to Atmospheric Composition Research and Observation

Katherine Emma Knowland (United States of America)

S2_P527 | High Spatio-temporal Observations of Air Quality over Asia by Geostationary Environmental Monitoring Spectrometer (GEMS)

Jhoon Kim (Republic of Korea)

S2_P528 | The TOAR Data Infrastructure: Harmonizing Global Surface Ozone Observations for Open Science and Analysis

Sabine Schröder (Germany)

S2_P529 | Quantifying Ozone Formation Sources for Mitigation via Peroxy Radical Closure

Nana Wei (China)

S2_P530 | Nighttime chemistry of biomass burning organic aerosol concentrations over Europe

Evangelia Siouti ()

S2_P531 | Real-Time VOC Emissions from Modern Wall Paints and Implications for Indoor Secondary Organic Aerosol Formation

Lidia Kristia Alfanti (United Kingdom)

S2_P532 | Integrating radiocarbon observations reveals biospheric dominance of CO₂ in the Indo-Gangetic Plain

Vimal Jose Vazhathara (India)

S2_P533 | Development of CE method for ion analysis in aerosols with AI-supported data processing

David Istvan Gaspar (Hungary)

S2_P534 | Investigating Regional Halocarbon Emissions: The Seoul Tracer Release Experiment

Michelle Jessy Müller (Switzerland)

S2_P535 | Quantification of anthropogenic and natural emissions: challenges and uncertainties

Claire Granier (France)

S2_P536 | Improving Fire Emission Estimates over Southeast Asia Using Himawari-9 and Multi-VIIRS Sensor Integration: Implications for Regional Air Quality Modeling

Nattamon Maneenoi (USA)

S2_P537 | Ground-based hyperspectral imaging of NH₃ from industrial and agricultural sources

Marie Therese El Kattar (Belgium)

S2_P538 | Belgian Ammonia assessed using innovative Multi-scale Measurements and Modelling (BEAM)

Martin Van Damme (Belgium)

S2_P539 | Top-down estimates of fine-scale NO_x and CO₂ emissions over Japan with GOSAT-GW focus mode observations

Chia-Hua Hsu (Japan)

S2_P540 | 1D modelling of soil nitrogen cycling and gas emissions in West African savannas using CLM5

Adeola Michael Dahunsi (France)

S2_P541 | High-resolution retrieval of rocket launch NO_x emissions using space-based land-surveying instruments

Connor Barker (United Kingdom)

S2_P542 | Towards robust CH₄ global emissions: Using multiple data sources to improve constraints in remote regions

Santiago Parraguez Cerda (Germany)

S2_P543 | Methane budget in recent decades and its coupling to variations in atmospheric oxidation capacity

Sergey Gromov (Germany)

S2_P544 | An assessment of the atmospheric methane budget over the recent past using newly developed methane emissions-driven models

Fiona O'Connor (United Kingdom)

S2_P545 | Observation and Obfuscation: The Remote Sensing of Greenhouse Gases from Satellite and Aircraft Platforms

John Philip Burrows (Germany)

S2_P546 | Design of the Atmospheric Observatory of the Crete Copernicus Ocean Colour System Vicarious Calibration Site

Maria Kanakidou (Greece)

S2_P547 | Over 20 Years of Gas-Phase H₂SO₄ Observations at the GAW station Hohenpeißenberg, Southern Germany

Dagmar Kubistin (Germany)

Section 3: Side Meetings Program

Monday, September 7, 2026

13:00-14:00

Seminar A Hall

North American Working Group

13:00-14:00

Experimental Hall

ANGA

14:00-15:00

Andreas & Maria Kalokairinou Hall

IGAC MANGO

14:00-15:00

Concert Hall

Atmospheric Oxidative Capacity: Megan

18:05- 19:05

Andreas & Maria Kalokairinou

Open Discussion on Community Support for Atmospheric Chemistry Programs under Threat

18:00-19:00

Seminar A Hall

HTAP Butler

Tuesday, September 8, 2026

12:55-13:55

Andreas & Maria Kalokairinou Hall

Global CO budget

12:55-13:55

Seminar A Hall

PACES

12:55-13:55

Experimental Hall

AMERICAS

12:55-13:55

Concert Hall

TOAR III Quick Start

14:00-15:00

Seminar A Hall

GEIA VOC

14:00-15:00

Experimental Hall

ACAM

Thursday, September 10, 2026

11:05-12:05

Andreas & Maria Kalokairinou Hall

BBURNED

11:05-12:05

Concert Hall

GEIA SIDE MEETING

16:20-17:20

Andreas & Maria Kalokairinou Hall

AMIGO

18:00-19:00

Andreas & Maria Kalokairinou Hall

Revisiting ECR Challenges Together: "A new generation of Early Career Researchers in Atmospheric Chemistry"

Section 4: ECR Program

Monday, September 7, 2026

13:15-14:00

Concert Hall

EUMETSAT

18:00-19:00

Concert Hall

ECR-YIN-AI

19:00-20:00

Atrium

Icebreaking ECR

Tuesday, September 8, 2026

12:55–14:00

Exhibition Hall

ECR Meet the Experts – Lunch

Wednesday, September 9, 2026

15:00–20:00

ECR Excursions

Ag, Nikolaos | Arolithos | Rethymno

buses will depart from the venue

pick up time 14.45

Thursday, September 10, 2026

12:45–14:00

Concert Hall

ECR- Grant Writing

Friday, September 11, 2026

12:50–14:00

Concert Hall

ECR-Mental Health in Academia



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6–11 September 2026



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