

Submission Id	Title	Presenting	Final Category	POSTER CODE
6	Transport of black carbon from the planetary boundary layer to free troposphere during the summer monsoon over South Asia	Prashant Singh	ACAM	ACAM-1A
40	The PM2.5 carbonaceous abundance and chemical constituents in ambient atmosphere of tropical urban city	Hanashriah Hassan	ACAM	ACAM-2B
175	Ozone and carbon monoxide over the northern Indian Ocean during winter and monsoon: influence of chemistry and dynamics	Imran Girach	ACAM	ACAM-3C
208	Photochemistry over an urban environment in India: Integration of measurements with box model	Meghna Soni	ACAM	ACAM-4A
217	Organic, inorganic and total bromine in the extratropical tropopause and lowermost stratosphere in fall 2017: Origins, transport pathways and consequences for ozone	Meike Rotermund	ACAM	ACAM-5B
221	Exploring potential impacts of Black Carbon on vertical mixing and overall air quality over Northern India	Prerita Agarwal	ACAM	ACAM-6C

257	Non-targeted screening of halogenated organosulfates in atmospheric particles	Ke Gao	ACAM	ACAM-7A
465	Accuracy assessment of TRMM precipitation product across different Agro-Climatic Zones of Tamil Nadu, India	VENKADESH SAMYKANNU	ACAM	ACAM-8B
502	Impacts of biomass burning over Southeast Asia on regional air quality, radiation, and meteorology	Jiawei Li	ACAM	ACAM-9C
527	Comparisons between satellite and CTM model derived total columns of ammonia over South and East-Asia	Pooja Pawar	ACAM	ACAM-10A
568	The substantial modulation of vertical mixing on new particle formation in Yangtze River Delta	Shiyi Lai	ACAM	ACAM-11B
586	Interannual variability of aerosol in the upper troposphere/lower stratosphere (UTLS): Connection to the climate variability, Asian summer monsoon strengths, and emissions	Mian Chin	ACAM	ACAM-12C
592	Storage stability of VOC in canisters under different conditions in HongKong	YUCHEN MAI	ACAM	ACAM-13A

596	Light Absorption Properties of Atmospheric Brown Carbon during Winter in Dhaka, Bangladesh.	ASFAY RAIHAN	ACAM	ACAM-14B
597	Combining Multi-Wavelength AERONET SSA Retrievals with an MIE Model and UV AI from OMI to Quantify the Global AAOD of BC and OC	Xinying Wang	ACAM	ACAM-15C
608	Linkage of water vapor distribution in the lower stratosphere to organized Asian summer monsoon convection	Bhupendra Bahadur Singh	ACAM	ACAM-16A
611	Light Absorption Properties of Brown Carbon from the Biomass Burning	Md. Islam	ACAM	ACAM-17B
614	Transport of air in the region of the Asian monsoon anticyclone and its impact on the stratosphere	Bärbel Vogel	ACAM	ACAM-18C
629	Atmospheric outflow of anthropogenic iron and its deposition to China adjacent seas	Xiaohuan Liu	ACAM	ACAM-19A
631	Intensified modulation of winter aerosol pollution in China by El Niño with short duration	Liangying Zeng	ACAM	ACAM-20B

653	Simultaneous trace gas measurements of the HALO aircraft: Widespread detection of HONO in excess of model predictions during the EMERGe-EU and -Asia campaigns and its possible formation mechanisms.	Benjamin Schreiner	ACAM	ACAM-21C
659	Oxygenated volatile organic compounds measurement using proton transfer reaction time-of-flight mass spectrometry in Hong Kong: characteristics, chemical reactivities, and source apportionment	Lirong HUI	ACAM	ACAM-22A
661	TCCON Nicosia: First ground-based FTIR greenhouse gas measurements in the Eastern Mediterranean and Middle East region	Constantina Rousogenous	ACAM	ACAM-23B
664	Carbon and health implications of trade restrictions	Lulu Chen	ACAM	ACAM-24C
670	Compositional Analysis of Cloud Droplet Residuals by High Resolution Time-of-Flight Aerosol Mass Spectrometry: A CAMP2Ex Case Study	Claire Robinson	ACAM	ACAM-25A

682	Observations of Regional Biomass Burning and Urban Trace Gas Enhancement Ratios in Southeast Asia and their Relationship with Aerosol Composition and Air Quality	Joshua DiGangi	ACAM	ACAM-26B
683	The Implication of Oil Production to Ozone Chemistry in the Oilfield Regions of Northern China	Tianshu Chen	ACAM	ACAM-27C
708	Airborne and Satellite Investigation of Asian Air Quality (ASIA-AQ): An Opportunity for International Collaboration	James Crawford	ACAM	ACAM-28A
740	Aerosol structure, absorption and interactions with the PBL and impact on surface pollution	Zhanqing Li	ACAM	ACAM-29B
754	Decadal trend of black carbon aerosols over the Central Himalayas: 17 years of ground observations	Priyanka Srivastava	ACAM	ACAM-30A
786	Quantitative Assessment of Black Carbon over Southern China During Springtime: Regional and Sectoral Sources and the Impacts of East Asian Summer Monsoon Onset	Chenwei Fang	ACAM	ACAM-31A

795	Aromatics derived oxygenated organic molecules in Hong Kong: Source, formation and impacts	Penggang ZHENG	ACAM	ACAM-32B
803	Aqueous production of secondary organic aerosol from fossil-fuel emissions in winter Beijing haze	Junfeng Wang	ACAM	ACAM-33C
838	Investigation of Dust Transportation Effects on Meteorological Parameters in Turkey: A Case Study in 2020	Umur Dinç	ACAM	ACAM-34A
848	Chemical formation pathways of secondary organic aerosols in the Beijing-Tianjin-Hebei region in wintertime	Jie Li	ACAM	ACAM-35B
34	Solar induced fluorescence and NO ₂ measurements from TROPOMI to constrain NO ₂ deposition fluxes to vegetation	Erin Delaria	AMIGO	AMIGO-1A
87	Ambient characterization of marine shipping emissions at the Port of Ningbo-Zhoushan on the coast of East China Sea	Dantong Liu	AMIGO	AMIGO-2B
102	Source Apportionment of Volatile Organic Compounds and Trace Metals in Houston	Morshad Ahmed	AMIGO	AMIGO-3C

110	Trends and seasonal variability of ammonia across major biomes inferred from long-term series of ground-based and satellite measurements	Money Osohou	AMIGO	AMIGO-4A
130	Long-term air quality trends in fast-growing future megacities in the tropics	Karn Vohra	AMIGO	AMIGO-5B
134	Global-Scale In-Situ Measurements of Aerosol Optical Depth: An Overview from the Atmospheric Tomography (ATom) Project	Charles Brock	AMIGO	AMIGO-6C
142	Satellite-Based Emission Estimates of Tropospheric Bromine During Arctic Spring in the GEOS-Chem Model	Pamela Wales	AMIGO	AMIGO-7A
149	Evaluating the detectability of methane point sources from satellite observing systems using microscale modeling	Piyush Bhardwaj	AMIGO	AMIGO-8B
153	How well can satellite derived XCO ₂ determine seasonal and interannual changes of CO ₂ over oceans? Evaluation by integrated ship and aircraft observations	Astrid Müller	AMIGO	AMIGO-9C

211	Anthropogenic point sources of ethylene revealed from space	Bruno Franco	AMIGO	AMIGO-10A
226	Meteorology-aerosol-chemistry multiphase data assimilation system improves estimation of wildfire carbonaceous emissions and transport	Benjamin Gaubert	AMIGO	AMIGO-11B
272	Impact of the Raikoke volcanic eruption 2019 on the Northern Hemisphere UT/LS aerosol load and properties as seen from IAGOS-CARIBIC in-situ observations	Andreas Petzold	AMIGO	AMIGO-12C
289	Improving national emission inventories by advanced spatio-temporal inversion	Anne Caroline Lange	AMIGO	AMIGO-13A
319	Evaluation of new 4D-variational inverse modeling system, CIF-CHIMERE: Inversion of NO _x emissions over China using NO ₂ OMI observations	Dilek Savas	AMIGO	AMIGO-14B
335	Tropospheric NO ₂ observed from space with Copernicus Sentinel-5 Precursor TROPOMI: Validation with ground-based network data.	Tijl Verhoelst	AMIGO	AMIGO-15C

360	Agricultural emissions of ammonia estimated with satellite observations and GEOS-Chem	Eloise Marais	AMIGO	AMIGO-16A
369	New insights on NOx sources and sinks from the divergence of the mean flux	Steffen Beirle	AMIGO	AMIGO-17B
377	Using WRF-Chem Volcano to model the in-plume halogen chemistry of Etna's 2018 eruption	Luke Surl WITHDRAWN	AMIGO	AMIGO-18C
434	Contribution of fossil fuel sources to PM2.5 in Seoul constrained by carbon, nitrogen, and oxygen isotopic ratios	Meehye Lee	AMIGO	AMIGO-19A
444	Expanded observations of oxygenated organic compounds in urban emissions via ammonium-adduct chemical ionization mass spectrometry	Drew Gentner	AMIGO	AMIGO-20B
456	Assimilating CrIS Observations to Improve U.S. Ammonia Emissions within CMAQ	Shannon Capps	AMIGO	AMIGO-21C
481	A comprehensive analysis of shipping emissions over the Mediterranean and the Black Sea regions	Andreas Pseftogkas	AMIGO	AMIGO-22A

500	4D-Var inversion of European NH3 emissions using CrIS NH3 measurements and GEOS-Chem adjoint with bi-directional and uni-directional flux schemes	Hansen Cao	AMIGO	AMIGO-23B
505	Swiss Halocarbon Emissions Derived from Regional Atmospheric Measurements	Dominique Rust	AMIGO	AMIGO-24C
515	Refining Ammonia Emissions Estimates with Satellite-based Observations Using a Novel Framework and an Air Quality Model	Congmeng Lyu	AMIGO	AMIGO-25A
556	Modeling methane from the North Sea region with ICON-ART	Christian Scharun	AMIGO	AMIGO-26B
567	TROPOMI based NOx emission estimate for Asia	Hao Kong	AMIGO	AMIGO-27C
569	Investigation of the temporal and spatial variability of methane flux estimations from mass balance approach, using FLEXPART-WRF methane fields	Sarah-Lena Meyer	AMIGO	AMIGO-28A
583	Sources of PM2.5 and BC in Beijing Based on Hourly Continuous Online Measurements from 2016 to 2019	Yue Liu	AMIGO	AMIGO-29B

587	Direct estimates of biomass burning NOx emissions and lifetime using daily observations from TROPOMI	Xiaomeng Jin	AMIGO	AMIGO-30C
595	Brown Carbon in Harbin, China during the heating season of 2018	Jiumeng Liu	AMIGO	AMIGO-31A
605	A new divergence method to quantify methane emissions using observations of Sentinel-5P TROPOMI	Mengyao Liu	AMIGO	AMIGO-32B
613	Globally Significant methane fluxes from African tropical wetlands	Jacob Shaw	AMIGO	AMIGO-33C
626	Improving OMI-NO2 resolution based on deep learning over central and southern Chile	Santiago Parraguez	AMIGO	AMIGO-34A
637	High-resolution tropospheric NO2 satellite retrieval in Asia based on OMI	Yuhang Zhang	AMIGO	AMIGO-35B
642	Estimation of Marine Isoprene Production and Emission based on Geostationary Satellite Remote Sensing Observations	Wentai Zhang	AMIGO	AMIGO-36C
648	Global-Scale Observation and Evaluation of Nitrous Oxide from IASI: Application to Source Estimates	Philippe Ricaud	AMIGO	AMIGO-37A

663	Reconciling Assumptions in Bottom Up and Top Down Approaches for Estimating Aerosol Emissions from Wildland Fires in the Western US using Observations from FIREX-AQ	Elizabeth Wiggins	AMIGO	AMIGO-38B
667	3 years of urban CO2 emissions in the San Francisco Bay Area inferred from a low-cost monitoring network	Alexander Turner	AMIGO	AMIGO-39C
672	Applications of satellite-derived NOx emissions	Ronald van der A	AMIGO	AMIGO-40A
675	Temporal variations of atmospheric NH3 revealed from space: from intraday cycles to long-term global trends	Lieven Clarisse	AMIGO	AMIGO-41B
699	Optimizing carbon monoxide emission estimates from Californian wildfires through inverse modeling based on high-resolution satellite observations	Johann Nüß	AMIGO	AMIGO-42C
721	Satellite-derived NOx emissions for 80 global megacities between 2005 and 2019	Daniel Goldberg	AMIGO	AMIGO-43A

771	Estimation of NO _x , SO ₂ and HCHO emissions from the Megacity of Lahore, Pakistan using car MAX-DOAS observations and comparison with regional atmospheric chemistry model and TROPospheric Monitoring Instrument (TROPOMI) satellite data	Maria Razi	AMIGO	AMIGO-44B
775	Airborne greenhouse gas (CO ₂ and CH ₄) measurements in Cyprus	Yunsong Liu	AMIGO	AMIGO-45C
791	INSIGHTS OF THE ACCURACY OF BOTTOM-UP AND TOP-DOWN LOCAL EMISSION INVENTORIES THROUGH HIGH-RESOLUTION ATMOSPHERIC MODELING	Carlos Gonzalez	AMIGO	AMIGO-46A
793	Identification of major air pollutant source location in India using satellite data and statistical-based analysis	Abhishek Chhari	AMIGO	AMIGO-47B
814	Propane emission estimates over Europe using observations and an inverse modelling approach	Francesco Graziosi	AMIGO	AMIGO-48C

818	Methane and non-methane hydrocarbons concentrations and sources in an Eastern Mediterranean Island (Cyprus)	Emeric Germain-Piaulenne	AMIGO	AMIGO-49A
81	The local and remote climate and human health impacts of Africa's 21st century aerosol emission trajectory	Chris Wells	ANGA Working Group	ANGA-1A
127	Dominant contribution of nitrogen compounds in precipitation chemistry in the Lake Victoria catchment (East Africa)	Adama BAKAYOKO	ANGA Working Group	ANGA-2B
371	Characterization of aerosol oxidative potential over African cities: a metric for relating air pollution and health effects	Cathy Leal-Liousse	ANGA Working Group	ANGA-3C
494	Assessment of Respirable Crystalline Silica Exposure among Miners of Konkola Underground Mine	Mwaba Sifanu	ANGA Working Group	ANGA-4A
495	REVIEW OF OCCUPATIONAL EXPOSURE TO RESPIRABLE CRYSTALLINE SILICA TO MINEWORKERS AT MOPANI MUFULIRA MINE IN ZAMBIA	Lubinda Nabiwa	ANGA Working Group	ANGA-5B

540	Evidence of Long-Term Trend of Visibility in the Sahel and Coevolution with Meteorological Conditions and Vegetation Cover during the Recent Period	N'Datchoh TOURE	ANGA Working Group	ANGA-6C
553	14C-based Source Apportionment of Black Carbon in PM2.5 aerosols in Urban Nairobi	Leonard Kirago	ANGA Working Group	ANGA-7A
610	Learning the lessons of more than 150 years of air quality management: recommendations for future efforts to reduce air pollution	Aderiana Mbandi	ANGA Working Group	ANGA-8B
701	Optical Properties of Water-Soluble Carbonaceous Aerosols at the Rwanda Climate Observatory	Samuel Mwaniki Gaita	ANGA Working Group	ANGA-9C
723	Urban emissions inventories development for air quality modelling in Abidjan and Korhogo cities	Sekou KEITA	ANGA Working Group	ANGA-10A
735	HDM-4 Model Calibration and Estimation of Vehicular Emissions in Nairobi, Kenya	Ezekiel NYAGA	ANGA Working Group	ANGA-11B
736	How Has Sub-Saharan Africa's Air Quality and Climate Been Altered by Recent Land Use and Land Cover Change and Emissions Changes?	Timothy Glotfelty	ANGA Working Group	ANGA-12C

830	Atmospheric Particulate Matter and gases at high altitude: a case study at 4760 m on Mt. Kenya	Anne Mutahi	ANGA Working Group	ANGA-13A
856	Occupational exposure and spatial distribution of BTEX concentrations at Lanseria International Airport	Raeesa Moolla	ANGA Working Group	ANGA-14B
862	Air pollution in West African cities and some strategies for particulate pollutant emissions reduction.	Veronique Yoboue	ANGA Working Group	ANGA-15C
863	THE AFRICA INTEGRATED ASSESSMENT OF AIR POLLUTION, CLIMATE CHANGE & SUSTAINABLE DEVELOPMENT IN AFRICA	Youba Sokona,	ANGA Working Group	ANGA-16A
33	Amazonian biogenic volatile organic compounds under global change	Ana Yañez-Serrano	Americas Working Group	AMERICAS-1A
43	Air pollution measurements in Coyhaique, Patagonia	Zoe Fleming	Americas Working Group	AMERICAS-2B
506	Assessing population exposure to air pollution in Metropolitan Lima and Callao, Peru: Creating a high-resolution spatial emissions inventory with limited data, supported by air quality monitoring	Ben Richmond	Americas Working Group	AMERICAS-3C

529	Ammonia temporal variability from urban ground-based FTIR measurements	Beatriz Herrera	Americas Working Group	AMERICAS-4A
600	Air-borne measurements of CH ₂ O, C ₂ H ₂ O ₂ , and C ₃ H ₄ O ₂ * and CO over the Amazon and their biomass burning emission ratios and emission factors in biomass burning plumes	Flora Kluge	Americas Working Group	AMERICAS5B
627	MODELING AND ASSIMILATION OF ATMOSPHERIC AEROSOLS OVER SÃO PAULO - BRAZIL WITH THE REGIONAL CHEMISTRY TRANSPORT EURAD-INVERSE MODEL ON HIGH-RESOLUTION	Ediclê Duarte	Americas Working Group	AMERICAS-6C
678	An atmospheric perspective on Amazon fire emissions	Maarten Krol	Americas Working Group	AMERICAS-7A
692	Changes in Mortality in Response to Decreases in Ozone and PM _{2.5} Concentrations Across the United States from 1990 to 2019	Revathi Muralidharan	Americas Working Group	AMERICAS-8B
711	Ozone trends at Tololo (30.17° S, 70.80° W, 2154 m a.s.l.) GAW monitoring station in Chile: an update and attribution study.	Laura Gallardo	Americas Working Group	AMERICAS-9C

726	ASSESSMENT OF TOAR OZONE METRICS DISTRIBUTIONS OVER LATIN AMERICAN CITIES	Angel Gálvez	Americas Working Group	AMERICAS-10A
733	Assessing brown carbon light absorption from aerosol optical properties in Mexico City	Armando Retama	Americas Working Group	AMERICAS-11B
839	Hourly variation of polycyclic aromatic hydrocarbons in a receptor site in Mexico City during the cold dry season	Yadira Martínez-Domínguez	Americas Working Group	AMERICAS-12C
115	Evolution of organic aerosol from wood smoke influenced by burning phase and solar radiation	Siyuan Li	BIOMASS BURNING	BB-1A
140	Uncertainty in fire emission factors and the impact on modeled atmospheric CO and O ₃	Rebecca Buchholz	BIOMASS BURNING	BB-2B
144	Using observations of Western U.S. wildfire smoke to improve fire emissions in air quality forecasting models	Megan Bela	BIOMASS BURNING	BB-3C
184	Employing the model to reproduce aerosol transport characteristics over Southeast Asia: comparison of different biomass burning emission inventories	Shuo Wang	BIOMASS BURNING	BB-4A

447	The impact of biomass burning emissions on Protected Natural Areas in central and southern Mexico	Fabiola Trujano	BIOMASS BURNING	BB-5B
503	Effects of fire diurnal variation on U.S. air quality during FIREX-AQ based on the Multi-Scale Infrastructure for Chemistry and Aerosols (MUSICA-V0)	Wenfu Tang	BIOMASS BURNING	BB-6C
510	Characterizing the Physical and Chemical Evolution of Organic Aerosol in Biomass Burning Smoke using Gas- and Particle-phase Molecular Tracers from Laboratory and FIREX-AQ Observations	Melinda Schueneman	BIOMASS BURNING	BB-7A
514	Global Wildfire Plume-Rise Data Set and Parameterizations for Climate Model Applications	Ziming Ke	BIOMASS BURNING	BB-8B
526	Persistent Influence of Biomass Burning Aerosols during Clean Air Conditions in the Western United States	Ryan Farley	BIOMASS BURNING	BB-9C
551	Submicron Particle Composition and Acidity in Fire Plumes during FIREX-AQ aircraft study	Hongyu Guo	BIOMASS BURNING	BB-10A
557	Does Combustion Condition Impact Biomass Burning	Rudra Pokhrel	BIOMASS BURNING	BB-11B

	Aerosol Hygroscopicity?			
577	Sources and characteristics of paddy-residue burning derived carbonaceous aerosols using dual carbon isotopes	M Devaprasad	BIOMASS BURNING	BB-12C
632	A top-down method of estimating NO2 emissions over South, Southeast and East Asia based on OMI NO2 observations	Jian Liu	BIOMASS BURNING	BB-13A
668	Aerosol Emissions Factors for Agricultural Fires in the Southeast United States	Richard Moore	BIOMASS BURNING	BB-14B
703	Photolysis of biomass burning organic aerosol, chemical transformations and photo-bleaching	Rachel O'Brien	BIOMASS BURNING	BB-15C
706	A Machine Learning Approach for Identifying Smoke Plumes Based on GOES Satellite Observations Over the United States Using the Trained on the Hazard Mapping System Fire and Smoke Product	Benjamin Brown-Steiner	BIOMASS BURNING	BB-16A
719	Aerosol properties and processing during wintertime under hazy condition	Susan Mathai	BIOMASS BURNING	BB-17B

762	Investigating the effect of wildfire on PM2.5 in southeastern U.S. in November 2016	Shuhui Guan	BIOMASS BURNING	BB-18C
776	Salting-out effects on evolution of light-absorbing SOA in atmospheric aerosols	Jackson Tham	BIOMASS BURNING	BB-19A
828	Mechanism development and model studies on the chemical multiphase processing of key biomass burning tracers with the new CAPRAM BBM1.0 module	Lin He	BIOMASS BURNING	BB-20B
139	Heterogeneous ice nucleation in the WRF-Chem model and its influence on the cloud response to volcanic aerosols	Louis Marelle	CATCH	CATCH-1A
181	Characterization and chemical imaging of aerosol in West Antarctica.	Sérgio Gonçalves Junior	CATCH	CATCH-2B
199	Impact of biomass burning aerosol from Amazon associated with changes of snow albedo over the Central Andes mountains using satellite remote sensing data	Tomás R. Bolaño-Ortiz	CATCH	CATCH-3C
344	Role of oceanic ozone deposition in explaining short-term variability of surface ozone at high-Arctic sites	Johannes Barten	CATCH	CATCH-4A

450	3-D modeling of bromine chemistry and boundary-layer mercury depletion across the springtime Arctic	Kenjiro Toyota	CATCH	CATCH-5B
472	Molecular simulations on potassium-rich feldspar surfaces interacting with ions and possibility of ice nucleation	Anand Kumar	CATCH	CATCH-6C
485	Oxidation of methanesulfonate into sulfate at inland Antarctica evidenced by 17O-excess signature	Sakiko Ishino	CATCH	CATCH-7A
513	Simulating brown carbon aerosol over High Mountain Asia: WRF-Chem model implementation and application	Cenlin He	CATCH	CATCH-8B
516	Investigating the relationship of meteorology and atmospheric composition to snow cover: A comparative study over High-Mountain Asia and Andes	Chayan Roychoudhury	CATCH	CATCH-9C
518	The importance of alkyl nitrates and sea ice emissions to atmospheric NO _x sources and cycling in the summertime Southern Ocean marine boundary layer.	Jessica Burger	CATCH	CATCH-10A

519	A Southern Ocean-wide examination of Multi-year Trends in Sea Ice, Chlorophyll Concentration, and Marine Aerosol Optical Depth	Srishti Dasarathy WITHDRAWN	CATCH	CATCH-11B
530	14CO in Glacial Ice from Law Dome, Antarctica as a Tracer of Changes in Atmospheric OH Abundance from 1870 AD to Present	Peter Neff	CATCH	CATCH-12C
541	Urban inland wintertime N2O5 deposition and snowpack ClNO2 production	Kathryn Kulju	CATCH	CATCH-13A
545	Using 1D-modelling to study Arctic chlorine activation, transport and VOC oxidation during Arctic springtime	Shaddy Ahmed	CATCH	CATCH-14B
562	Modeling large dust deposition events to alpine snow and their impacts: the role of model resolution	Foteini Baladima	CATCH	CATCH-15C
570	Atmospheric nitrogen deposition and watershed budget at the Lautaret Pass	Jim Grisillon	CATCH	CATCH-16A
575	What we learn from fundamental laboratory studies at the Swiss Light Source about atmospheric chemistry.	Thorsten Bartels-Rausch	CATCH	CATCH-17B

604	Reactive nitrogen species in polar environments: a laboratory-based study of nitrous acid gas (HONO) production from snow.	Amelia Bond	CATCH	CATCH-18C
617	Short-term variability in atmospheric carbon dioxide as observed from coastal Antarctica	Freya Squires	CATCH	CATCH-19A
625	Trend analysis of aerosol particle physical properties at Villum Research Station, Northern Greenland	Jakob Pernov	CATCH	CATCH-20B
630	Acidity-driven enhancement of sulfate formation after SO ₂ emission control evidenced by 17O-excess of ice core sulfate.	Shohei Hattori	CATCH	CATCH-21C
654	Unprecedented snow darkening and melting in New Zealand due to 2019–2020 Australian wildfires	Wei Pu	CATCH	CATCH-22A
677	An overview of the role of atmospheric composition within the CRiceS project	Jennie Thomas	CATCH	CATCH-23B
695	Increasing scientific impact through combined field and modelling studies – Example: sea salt aerosol from blowing snow above polar sea ice	Markus Frey	CATCH	CATCH-24C

702	The evolving sources of cloud condensation nuclei in the Arctic and North Atlantic: preliminary results from the SEANA project	Alexander Kurganskiy	CATCH	CATCH-25A
709	Modelling Study of the Arctic Clouds	Roya Ghahreman	CATCH	CATCH-26B
712	Sea Spray Aerosol Generation Experiments in the Summertime High Arctic Pack Ice	Jessica Mirrielees	CATCH	CATCH-27C
717	Using both a blowing snow source and a snowpack source to model reactive bromine in GEOS-Chem	William Swanson	CATCH	CATCH-28A
724	Using gas phase, particle, and snow composition data to understand the spring shutdown of reactive bromine cycling in the Arctic boundary layer	Daun Jeong	CATCH	CATCH-29B
734	Impacts of anthropogenic emissions on tropospheric reactive halogens and the oxidation capacity of the atmosphere	Shuting Zhai	CATCH	CATCH-30C
782	Observations of iodine monoxide over three summers at the Indian Antarctic bases, Bharati and Maitri	Anoop Mahajan	CATCH	CATCH-31A

809	Changes in the Structure of the Freeze-Concentrated Solution in the Veins of Ice due to Various Freezing Rates	Jan Zezula	CATCH	CATCH-32B
823	Halogen elements in two sub-Antarctic ice cores and their suitability as sea ice proxies	Delia Segato	CATCH	CATCH-33C
825	Perspectives of an early career researcher in the polar ocean-ice-atmosphere interactions community	Megan Willis	CATCH	CATCH-34A
845	Geographic distribution of fluorescent bioaerosols and roles of marine biological particles in the cloud processes over the Arctic Ocean	Kaori Kawana	CATCH	CATCH-35B
45	Understanding of the space-time variations of hydroxyl (OH) using methyl chloroform (CH ₃ CCl ₃)	Prabir Patra	CCMI	CCMI-1A
58	Coupling interactive fire with atmospheric composition and climate in the UK Earth System Model (UKESM)	Joao Teixeira	CCMI	CCMI-2B
79	Understanding the historical changes in tropospheric halogens and their impacts over the last century	Tomás Sherwen	CCMI	CCMI-3C

84	Irreversible changes in the future global methane cycle under the aggressive-mitigation SSP1-2.6 scenario, simulated with a fully coupled, dynamic methane cycle process model in UKESM1.0.	Gerd Folberth	CCMI	CCMI-4A
89	Climate-driven chemistry and aerosol feedbacks in Earth system models	William Collins	CCMI	CCMI-5B
145	Turbulence-vegetation-chemistry interactions: Impacts on OH reactivity at a deciduous forest	Olivia Clifton	CCMI	CCMI-6C
168	Atmospheric Chemistry in the OpenIFS Model	Marcus Köhler	CCMI	CCMI-7A
185	Impact of heatwaves and drought stress on isoprene in a UK temperate forest: results from the 2018-2020 WIsDOM campaigns	Valerio Ferracci	CCMI	CCMI-8B
192	Characterisation and Molecularly Resolved Source Apportionment of Brown Carbon Absorption by UV-Vis Spectroscopy and Atmospheric Pressure Chemical Ionisation-Mass Spectrometry	Liudongqing Yang	CCMI	CCMI-9C

195	Ozone Production in U.S. Thunderstorm Convective Outflow Regions	Mary Barth	CCMI	CCMI-10A
202	Investigating aerosol radiative adjustment mechanisms and magnitudes with model nudging	Max Coleman	CCMI	CCMI-11B
230	Ozone changes from past to future: characterising regional ozone sensitivity across the globe	Zhenze Liu	CCMI	CCMI-12C
254	Insights from MOZAIC long-term routine in-situ measurements into vertical distribution, seasonal variability and tropospheric fingerprint of ice-supersaturated air masses in the northern mid-latitudes	Susanne Rohs	CCMI	CCMI-13A
277	How detailed should a vegetation canopy be represented for ozone deposition impact assessments?	Auke Visser	CCMI	CCMI-14B
286	New MESSy scavenging subroutine to treat aerosol particles gas-phase partitioning in convective clouds	Giorgio Taverna	CCMI	CCMI-15C
306	One value of cloud pH to rule them all: The impact of an interactive cloud pH scheme on aerosols in UKESM1	Steven Turnock	CCMI	CCMI-16A

316	Methane: At the Interface between Hydrology, Atmospheric Composition, Air Quality, and Climate	Fiona O'Connor	CCMI	CCMI-17B
349	Trends in global tropospheric hydroxyl radical and methane lifetime since 1850 from AerChemMIP	David Stevenson	CCMI	CCMI-18C
390	Graph Theory and Atmospheric Chemistry	Sam Silva	CCMI	CCMI-19A
412	Examining the Competition Between Oxidation and Deposition in the Fate of Reactive Organic Carbon	Gabriel Isaacman-VanWertz	CCMI	CCMI-20B
413	Reactive nitrogen in global upper troposphere from NASA DC8 and MOZAIC aircraft campaigns	Nana Wei	CCMI	CCMI-21C
417	A large source of formic acid from cloud droplets	Domenico Taraborrelli	CCMI	CCMI-22A
449	The NOAA Baseline Balloon Stratospheric Aerosol Profiles (B2SAP) Project	Elizabeth Asher	CCMI	CCMI-23B
455	Dynamical downscaling of a global chemistry-climate model to study the influence of climate change and variability on mid-21st century PM2.5 in the continental US	Surendra Kunwar	CCMI	CCMI-24C

457	Two proxies reflect OH variability on local scales in the remote atmosphere	Colleen Baublitz	CCMI	CCMI-25A
475	Viscosity of Secondary Organic Aerosol: Effects of Composition and Oxidation Method	Giuseppe Crescenzo	CCMI	CCMI-26B
480	Tropospheric Age-of-Air: Influence of SF6 Emissions in Recent Surface Trends and Model Biases	Clara Orbe	CCMI	CCMI-27C
484	Observed and simulated effects of droughts and heatwaves on ozone concentration in Southern Europe	Antoine Guion	CCMI	CCMI-28A
491	Climatological pattern of hydrocarbon in the UTLS region associated with the Australian Bushfires	Donghee Lee	CCMI	CCMI-29B
492	Intercomparison of Ground- and Satellite-Based Total Ozone Column Data at Three stations, Antarctic Region	SONGKANG KIM	CCMI	CCMI-30C
501	Direct Comparison of the Submicron Aerosol Hygroscopicity of Water-Soluble Sugars	Kotiba Malek	CCMI	CCMI-31A
512	Hemispheric Lightning NOx Emissions and the Impact on Ground-Level Ozone	Mike Madden	CCMI	CCMI-32B

523	Observational Metrics that Relate to the Answers we seek from Chemistry-Climate Models	Michael Prather	CCMI	CCMI-33C
547	Impacts of future land use and land cover change on mid-21st-century dust air quality	Lang Wang	CCMI	CCMI-34A
548	A Simplified Chemistry-Dynamical Model	Hao-Jhe Hong	CCMI	CCMI-35B
599	Study of Different Carbon Bond 6 (CB6) Mechanisms by Using a Concentration Sensitivity Analysis	Le Cao	CCMI	CCMI-36C
615	Observationally constrained analysis of sulfur species in the marine atmosphere	Huisheng Bian	CCMI	CCMI-37A
621	Revising the Ozone Depletion Potentials Metric for Short-Lived Chemicals Such as CF3I and CH3I	Jun Zhang	CCMI	CCMI-38B
657	Assessing dust impact on air quality using the global chemistry and transport model TM4-ECPL	Medea Zanoli	CCMI	CCMI-39C
666	Evaluation of CMIP6 model simulations of PM2.5 components in China	Fangxuan Ren	CCMI	CCMI-40A
669	Modeling atmospheric brown carbon in the GISS ModelE Earth system model	Maegan DeLessio	CCMI	CCMI-41B

673	Enhancing chemical schemes accounted in the FLEXPART v10.4 transport model using a kinetic preprocessor	Ruben Sousse	CCMI	CCMI-42C
676	In- and out-of-cloud measurements at SMEAR IV for pristine conditions and an aged forest fire plume event	Angela Buchholz	CCMI	CCMI-43A
700	Observations of Lightning NO _x Production from TROPOMI Case Studies over the United States	Dale Allen	CCMI	CCMI-44B
704	The fingerprint of Biomass Burning on CO in the remote atmosphere	Nikos Daskalakis	CCMI	CCMI-45C
713	Assessing global chemistry-climate simulations on the long term in the UTLS with the IAGOS database	Yann Cohen	CCMI	CCMI-46A
720	Continuity of the Arosa ozone column series after Dobson automation and the displacement of the LKO instruments to Davos	René Stübi	CCMI	CCMI-47B
755	An overview of iodine chemistry over the Indian and Southern Ocean waters using ship-based observations and modelling	Swaleha Inamdar	CCMI	CCMI-48C

773	Arctic warming and associated sea ice reduction in the early 20th century induced by natural forcings in MRI-ESM2.0 climate simulations and multimodel analyse	Takuro Aizawa	CCMI	CCMI-49A
783	A Core-Shell kinetic model for simulating Viscosity dependent secondary organic Aerosol (CSVA) and its applications	Long Jia	CCMI	CCMI-50B
787	The impact of changes in anthropogenic emissions on future summer ozone concentrations over China based on CMIP6	Xinran Zeng	CCMI	CCMI-51C
796	Dust minerals in the atmosphere as precursors of Ice Nuclei Particles	Marios Chatziparaschos	CCMI	CCMI-52A
797	Global PM2.5 prediction and estimated mortality to 2050 under different climate change scenarios	Wanying CHEN	CCMI	CCMI-53B
820	Co-benefits of changing diet. A modelling assessment at the regional scale integrating social acceptability, environmental and health impacts	Michela Maione	CCMI	CCMI-54C
822	Size-resolved aerosol pH over Europe during summer	Stylianos Kakavas	CCMI	CCMI-55A

854	Estimation of radiative forcing and heating rate based on vertical observation of black carbon in Nanjing, China	Shuangshuang Shi	CCMI	CCMI-56B
857	On the formation of formic acid from formaldehyde processing in liquid clouds	Jean-Francois Muller	CCMI	CCMI-57C
859	Assessment of the impact of OH's temporal resolution on the global atmosphere	Sofía Gómez Maqueo Anaya	CCMI	CCMI-58A
307	First year of real-time VOC measurements at the SIRTA facility (Paris region, France): diurnal and seasonal variabilities, impact of COVID-19 lockdown on air quality	Leïla Simon	COVID-19	COVID-1A
321	Global tropospheric ozone responses to reduced NOx emissions linked to the COVID-19 world-wide lockdowns	Kazuyuki Miyazaki	COVID-19	COVID-2B
463	Impact of Singapore's COVID-19 lockdown on atmospheric CO2 fluxes at neighborhood scale	Erik Velasco	COVID-19	COVID-3C
466	Quantification of the Emission Changes in Europe During 2020 Due to the COVID-19 Mobility Restrictions	Marc Guevara	COVID-19	COVID-4A

479	US COVID-19 shutdown demonstrates importance of background NO ₂ in inferring NO _x emissions from satellite NO ₂ observations	Zhen Qu	COVID-19	COVID-5B
508	The impact of COVID-19 on projections, and the use of scenario analysis tools for modelling impacts of mitigation strategies on air pollutant emissions and concentrations.	Ben Pearson	COVID-19	COVID-6C
521	Do satellite-based HCHO and NO ₂ observations help with the quantitative prediction of surface ozone during the pandemic?	Amir Souri	COVID-19	COVID-7A
522	Mapping Urban CO with BEACO ₂ N and Bayesian Inversions	Naomi Asimow	COVID-19	COVID-8B
531	Impact of COVID-19 on NO _x and VOC levels over China based on multi-species satellite data and modeling	Jenny Stavrakou	COVID-19	COVID-9C
554	The Impact of COVID-19 Lockdowns and Car Free- day Policy on Levels of Air Pollution in Kigali, Rwanda	Egide Kalisa	COVID-19	COVID-10A

573	Fast Climate Responses to Aerosol Emission Reductions During the COVID-19 Pandemic	Yang Yang	COVID-19	COVID-11B
578	The effects of the COVID-19 lockdowns on air-quality throughout the troposphere as seen by IAGOS in-situ data	Hannah Clark	COVID-19	COVID-12C
582	Impacts of COVID-19 on Black Carbon in Two Representative Regions in China Based on Online Measurement in Beijing and Tibet	Mei Zheng	COVID-19	COVID-13A
585	Analysis of the effect of the COVID-19 lockdown on Aerosol Optical Properties over Bangladesh	Khaled Joy	COVID-19	COVID-14B
590	From COVID-19 to Future Electrification: Assessing Traffic Impacts on Air Quality by a Machine Learning Model	Jiani Yang	COVID-19	COVID-15C
616	Knowns and unknowns on the impacts of COVID-19 lockdowns on urban air quality	Georgios Gkatzelis	COVID-19	COVID-16A
633	Chemistry of Atmospheric Fine Particles during the COVID-19 Pandemic in a Megacity of Eastern China	Lei Liu	COVID-19	COVID-17B
694	Covid-19 induced lower-tropospheric ozone changes	Mariano Mertens	COVID-19	COVID-18C

716	Quantifying and attributing carbon monoxide (CO) emission changes in New York City during the COVID-19 shutdown	Luke Schiferl	COVID-19	COVID-19A
722	Errors and uncertainties associated with mobility and traffic activity data for estimating fossil fuel CO2 emissions during the COVID-19 pandemic	Tomohiro Oda	COVID-19	COVID-20B
738	Impact of the COVID-19 lockdown period in surface Ozone, PM2.5, and SOA in the Mexico Megalopolis	Victor Almanza	COVID-19	COVID-21C
745	Lockdown influences on Ozone, NO2, and CO over Asia: Some contrary affects	Prajjwal Rawat	COVID-19	COVID-22A
763	Changes in aerosol over the Indian subcontinent during the COVID19 Lockdown in 2020	Satyendra Pandey	COVID-19	COVID-23B
780	Exploring Changes in Air Quality Across Africa from COVID-19 in 2020 and 2021: Observations from the AfriqAir Network	Michael Giordano	COVID-19	COVID-24C
798	Investigating Air Quality and Emissions Changes from COVID-19 Lockdown Measures in Mexico City with Satellite Observations	Duncan Quevedo	COVID-19	COVID-25A

802	Hourly Organic Tracer-based Source Apportionment of PM2.5 before and during the Covid-19 lockdown: A Case Study in Suburban Shanghai	Shan WANG	COVID-19	COVID-26B
821	COVID-19 LOCKDOWN: DECADAL LOW OF INDIAN METRO AIR QUALITY	RAVI YADAV	COVID-19	COVID-27C
849	High-latitude urban air quality: 20 months of aerosol composition data from Fairbanks, Alaska	Ellis Robinson	COVID-19	COVID-28A
5	Hygroscopicity of fresh and aged mineral dust aerosol	Mingjin Tang	China Working Group	CHINA-1A
302	Health Effects of Global Air Pollution on Reproduction: from Fertility Rate Reduction in United States, to Pregnancy Loss in Africa, and Preterm Births in Beijing China	Tong Zhu	China Working Group	CHINA-2B
473	Online Measurement of Fine Aerosol Nitrite via a Versatile Aerosol Concentration Enrichment System Coupled with Ion Chromatography	Xiaona Shang	China Working Group	CHINA-3C
490	Atmospheric Environmental Impacts of Freight Transportation	Huan Liu	China Working Group	CHINA-4A

565	Dibasic Esters Observed as Potential Emerging Indoor Air Pollutants in New Apartments in Beijing, China	Yingjun Liu	China Working Group	CHINA-5B
674	Effects of Regional Transport on Haze in the North China Plain: Transport of Precursors or Secondary Inorganic Aerosols	Jie Li	China Working Group	CHINA-6C
684	Overview of the aircraft measurements in the Northeastern and Northern China	Shan Ye	China Working Group	CHINA-7A
742	The researches of unstable reactive oxidants in the atmosphere	Shengrui Tong	China Working Group	CHINA-8B
758	The long-term trend of acidity and chemical compositions of precipitation in Shanghai	Shiyu Ye	China Working Group	CHINA-9C
767	The impact of climate change and extreme weather events on ozone formation	Yang Gao	China Working Group	CHINA-10A
770	Estimation of heterogeneous ozone oxidation rates of oleic, elaidic, and linoleic acid in urban organic aerosols using their hourly measurement data.	Qiongqiong Wang	China Working Group	CHINA-11B
779	Health Impact of Global Atmospheric Arsenic: 2005-2015	Lei Zhang	China Working Group	CHINA-12C

794	Terpene-derived Nitrooxy Organosulfates	Jian Zhen Yu	China Working Group	CHINA-13A
804	Aerosol Acidity and Water Content as a Driver of Aerosol Formation, Intense Haze Events and Nutrient Deposition	Athanasios Nenes	China Working Group	CHINA-14B
860	Study on the Ozone Photochemistry in China	Keding Lu	China Working Group	CHINA-15A
861	First comprehensive measurements on atmospheric photochemistry over the Tibetan Plateau	Chunxiang Ye	China Working Group	CHINA-16B
124	Identification of Different Generation Oxidation Products and Tracers: Secondary Organic Aerosol Formation from Aromatic Precursors	Deepchandra Srivastava	FUNDAMENTALS AND FUTURES	FF-1A
133	Exploring modeled impacts and uncertainties of DMS oxidation mechanisms	Linia Tashmim	FUNDAMENTALS AND FUTURES	FF-2B
200	First observations of gas-phase urea in the atmosphere	Emily Matthews	FUNDAMENTALS AND FUTURES	FF-3C
222	Coexistence of three liquid phases in individual atmospheric aerosol particles	Fabian Mahrt	FUNDAMENTALS AND FUTURES	FF-4A
255	Water as the pH probe for individual particles using micro-Raman spectroscopy	Xiaoyu Cui	FUNDAMENTALS AND FUTURES	FF-5B

343	Using Measurements of Atmospheric ¹⁴ C in a Global Network to Improve Understanding of OH Spatial and Temporal Variability	Vasilii Petrenko	FUNDAMENTALS AND FUTURES	FF-6C
348	Criegee intermediate yields from seven atmospherically important ozone-alkene systems	Beth Nelson WITHDRAWN	FUNDAMENTALS AND FUTURES	FF-7A
352	Renoxification on Aerosol Particles over the Atlantic Ocean	Simone Andersen	FUNDAMENTALS AND FUTURES	FF-8B
421	Organic nitrate deposition to trees: processes, rates and atmospheric implications	Bryan Place	FUNDAMENTALS AND FUTURES	FF-9C
454	Elucidation of the Structure and Formation Mechanism of Dimer Esters in Monoterpene Secondary Organic Aerosol	Christopher Kenseth	FUNDAMENTALS AND FUTURES	FF-10A
478	The Viscosity of Organic Films from Cooking Aerosol	Kristian Kiland	FUNDAMENTALS AND FUTURES	FF-11B
488	Nitrate-mediated photooxidation of organic acids in the aqueous phase	Theodora Nah	FUNDAMENTALS AND FUTURES	FF-12C
517	Unveiling Processes in Secondary Organic Aerosol Particles during Isothermal Evaporation	Zijun Li	FUNDAMENTALS AND FUTURES	FF-13A

524	Formation of secondary aerosols, particulate nitrogen- and sulfur-containing organics through anthropogenic-biogenic interactions at night	Li Xu	FUNDAMENTALS AND FUTURES	FF-14B
532	Highly oxygenated organic nitrates formed from NO ₃ radical initiated oxidation of β -pinene	Hongru Shen	FUNDAMENTALS AND FUTURES	FF-15C
543	An evaluation of the unexplored generation of hydrogen from the photolysis of aldehydes using two photochemistry models	Maria Pérez-Peña	FUNDAMENTALS AND FUTURES	FF-16A
544	Insights into tropical cloud chemistry at La Reunion Island reveals a high supersaturation of low-soluble VOCs in the aqueous phase	Pamela DOMINUTTI	FUNDAMENTALS AND FUTURES	FF-17B
566	Spatial heterogeneity of LDSA using a pilot network of LDSA sensors	Jacinta Edebeli	FUNDAMENTALS AND FUTURES	FF-18C
579	Stereoscopic remote sensing of atmospheric trace gases	Cheng Liu	FUNDAMENTALS AND FUTURES	FF-19A
603	O ₂ --induced SO ₂ oxidation in aerosol formation	Narcisse Tsona	FUNDAMENTALS AND FUTURES	FF-20A

612	Influence of atmospheric conditions on the role of trifluoroacetic acid in atmospheric sulfuric acid-dimethylamine nucleation	Ling Ling	FUNDAMENTALS AND FUTURES	FF-21C
634	Comprehensive product characterization in the OH oxidation of dimethyl sulfide using an environmental chamber	Qing Ye	FUNDAMENTALS AND FUTURES	FF-22A
639	Role of photo-generated hydroxyl radicals in the ozone depletion on the surface of and within the polar stratospheric clouds (PSCs)	Jun He	FUNDAMENTALS AND FUTURES	FF-23B
641	Enabling exchange and adequate use of data for observation based atmospheric research	Jörg Klausen	FUNDAMENTALS AND FUTURES	FF-24C
646	Constructing shapes and mixing structures of black carbon particles with applications to optical calculations	Yuanyuan Wang	FUNDAMENTALS AND FUTURES	FF-25A
658	Application of the method to determine the atmospheric carbonyl compounds using liquid chromatography tandem mass spectrometry (LC-MS/MS) to ship measurement	Yang XU	FUNDAMENTALS AND FUTURES	FF-26B

660	Characterizing dynamic behaviors of phthalate monoesters and diesters in an office	Yatai Li	FUNDAMENTALS AND FUTURES	FF-27C
685	Reaction Products and Pathways of Alkoxy Radicals in the Condensed Phase	Victoria Barber	FUNDAMENTALS AND FUTURES	FF-28A
705	A new mobile UAV-based platform of ACTRIS for atmospheric profiling	Maria Kezoudi	FUNDAMENTALS AND FUTURES	FF-29B
728	Submicron aerosol acidity variability at a Mediterranean Coastal site	Anna Maria Neroladaki	FUNDAMENTALS AND FUTURES	FF-30C
746	Seasonal Variation in Phase State and Chemical Composition of Ambient Particles Collected at the Southern Great Plains Site at Different Altitude	Zezhen Cheng	FUNDAMENTALS AND FUTURES	FF-31A
749	Synergistic Multiphase Chemistry of Isoprene Hydroxy Hydroperoxides (ISOPOOH) with Sulfur Dioxide in Acidic Sulfate Aerosols Leading to Secondary Inorganic and Organic Aerosol Formation	Yue Zhang	FUNDAMENTALS AND FUTURES	FF-32B
757	Identification and quantification of tracer products and influence factors of their yields in the OH-initiated oxidation of	Shuyu He	FUNDAMENTALS AND FUTURES	FF-33C

	toluene and m-xylene			
761	Supersaturated state accelerates the uncatalyzed autoxidation of SO ₂ within aerosol droplets	Pai Liu	FUNDAMENTALS AND FUTURES	FF-34A
768	Atmospheric gas-phase alkylamines in the Mediterranean and their relation to new particle formation	Evangelia Tzitzikalaki	FUNDAMENTALS AND FUTURES	FF-35B
785	What has data science ever done for us? Successes, lessons learned and reflections from a data diletante	Paul Young WITHDRAWN	FUNDAMENTALS AND FUTURES	FF-36C
799	Theoretical Study on the Role of Environmental Factors in EPFRs Formation over CuO Surface	Danli Liang	FUNDAMENTALS AND FUTURES	FF-37A
811	The role of Organophosphate Esters Flame Retardants and plasticizers (OPEs) in Phosphorus Cycle in the atmosphere of the Mediterranean Sea	Kalliopi VIOLAKI	FUNDAMENTALS AND FUTURES	FF-38B
837	Physicochemical properties and Ice Nucleation Potential of Long-range Transported Free tropospheric aerosols	Nurun Nahar Lata	FUNDAMENTALS AND FUTURES	FF-39C

842	Development of "Chemspot" instrument for the characterization of organic aerosol	PURUSHOTTA M KUMAR	FUNDAMENTALS AND FUTURES	FF-40A
847	A Kinetic and Mechanistic Study on the Photochemistry of Polycyclic Aromatic Hydrocarbons and its Effect on Atmospheric Iron Solubility	Desiree Sarmiento	FUNDAMENTALS AND FUTURES	FF-41B
858	A new chemical pathway for stratospheric sulfate aerosol formation	Erik Larson	FUNDAMENTALS AND FUTURES	FF-42C
9	Road Traffic Emission Inventory in an Urban Zone of West Africa: Case of Yopougon City (Abidjan, Côte d'Ivoire)	DOUMBIA Madina	GEIA	GEAI-1A
13	ESTIMATION OF POLLUTANT EMISSIONS BY INDUSTRIAL SOURCES IN BOGOTÁ UNDER POWER MATRIXES SCENARIOS PROJECTED TO THE YEAR 2050 IMPLEMENTING THE LEAP MODEL	Karen Hernandez	GEIA	GEIA-2B
30	The influence of change the fuel type used in power plants on reduction of carbon dioxide emission in the Energy Sector of Azerbaijan	Sadig Hasanov	GEIA	GEIA-3C

55	Characterising oceanic emissions of alkenes and their impacts	Ryan Pound	GEIA	GEIA-4A
59	The CAMS Global and Regional Emissions for Global and Regional Forecasts and Reanalyses	Claire Granier	GEIA	GEIA-5B
125	Incorporating interactive surface exchange of ammonia into chemistry-climate models	Jize Jiang	GEIA	GEIA-6C
173	Secondary Organic Aerosol Formation from Emissions of Coastal Sage Shrubs	Archit Mehra	GEIA	GEIA-7A
210	Connecting seasonal variability in monoterpene concentrations to features in the biosphere of a southeastern U.S. forest.	Deborah McGlynn	GEIA	GEIA-8B
240	Evaluation of black carbon emissions in East Asia: Comparisons of six inventories and constraints from surface observations and model simulations	Kohei Ikeda	GEIA	GEIA-9C
244	Investigation of major emission sources and photochemical processes of Volatile Organic Compounds (VOCs) at a suburban site of New Delhi, India in the winter	Nidhi Tripathi	GEIA	GEIA-10A

422	Forecasting policy, innovation and new technologies for reducing transport emissions in Chile 2020-2050	Mauricio Osses	GEIA	GEIA-11B
469	Aerosols in Western Mediterranean Basin: three complementary approaches for source emission identification	Abdelfettah Benchrif	GEIA	GEIA-12C
471	Road Traffic Emission Inventory in an Urban Zone of West Africa: Case of Yopougon City (Abidjan, Côte d'Ivoire)	Madina Doumbia	GEIA	GEIA-13A
474	A comprehensive and spatially resolved Mercury Emission Inventory for Indian Subcontinent	Madhusmita Mishra	GEIA	GEIA-14B
482	Quantification of methane emissions from offshore oil & gas platforms in the Norwegian Sea.	Amy Foulds	GEIA	GEIA-15C
483	Experimental determination of isoprene and other BVOCs emissions from Platanus x hispanica under urban conditions	Carmen Kalalian	GEIA	GEIA-16A
497	Emission sources and health risk of volatile organic compounds during heating season in rural northern China	Hui Chen	GEIA	GEIA-17B
498	The CAMS Global Anthropogenic Emissions	Antonin Soulié	GEIA	GEIA-18C

499	Estimation of Methane emissions from Akouédo landfill through a modelling approach	Séka Yapo	GEIA	GEIA-19A
520	Global Emission trends to 2020 from the Community Emissions Data System (CEDS)	Steven Smith	GEIA	GEIA-20B
525	Annual changes of ship emissions around China under gradually promoted control policies from 2016 to 2019	Xiaotong Wang	GEIA	GEIA-21C
528	Third Revision of the Bottom-up Global Surface Seawater Dimethyl Sulphide Climatology (DMS-Rev3)	Shrivardhan Hulswar	GEIA	GEIA-22A
533	A Technological Inventory of Particulate Matter Emission for Indian Megacity Kolkata	Poonam Mangaraj	GEIA	GEIA-23B
534	Unfolding Inventory of Indoor Air Pollutant Emission in Indian Household: An Invisible Potential Threat	Saroj Sahu	GEIA	GEIA-24C
536	EMISSIONS FROM STATIONARY SOURCES AND THEIR IMPACT ON AIR QUALITY IN CUBA	Cuesta Osvaldo	GEIA	GEIA-25A

546	The CAMS-REG v5 high-resolution European emission inventory for air pollutants and greenhouse gases (2000-2018) to support air quality and climate change modelling	Stijn Dellaert	GEIA	GEIA-26B
549	Understanding the Effect of Drought on Biogenic Isoprene and the Biosphere-Atmosphere-Chemistry Relationship with NASA GISS ModelE+MEGAN Simulations	Elizabeth Klovenski	GEIA	GEIA-27C
563	The Effects of Light on the Emission of Biogenic Isoprene and Monoterpenes : A Review	Xinyu Wang	GEIA	GEIA-28A
564	Downscaling method: Increasing the resolution of EDGAR emission inventory data for complex terrains like Switzerland	Curdin Spirig	GEIA	GEIA-29B
572	Sensitivity of different BVOC emission schemes in WRF-Chem(v3.6) to vegetation distributions and its impacts over East China	Mingshuai Zhang	GEIA	GEIA-30C
591	BVOCs emission factors of urban green trees	Yuran Tan	GEIA	GEIA-31A

598	A case study to clarify emissions of biogenic volatile organic compounds (BVOCs) based on measurements of total ozone reactivity in the ambient air of a suburban forest in Japan	Jun Matsumoto	GEIA	GEIA-32B
618	RTEII: A new high-resolution (0.1° × 0.1°) road transport emission inventory over India of 74 VOCs, CO, NOx, NH3, SO2, CH4, CO2, PM2.5 constrained by measured emission factors and regional vehicular activity data	Haseeb Hakkim	GEIA	GEIA-33C
619	A new “hybrid” gridded 1 km × 1 km emission inventory for paddy stubble burning reveals that stubble burning is a massive source of VOCs unaccounted for by existing emission inventories and overwhelms other anthropogenic activities over the Indo-Gangetic Plain.	Ashish Kumar	GEIA	GEIA-34A
620	Volatile chemical product emissions and criteria pollutant enhancements in the United States	Karl Seltzer	GEIA	GEIA-35B

645	Global NH3 emissions from livestock management : implementation of a dynamical module within a land surface model and impact on atmospheric chemistry	Maureen Beaudor	GEIA	GEIA-36C
662	Airborne measurements of formaldehyde from biomass burning plumes and urban and wetland emissions using Laser-Induced Fluorescence Spectroscopy	Samuel Seldon	GEIA	GEIA-37A
710	Modeling and Mapping Biomass Burning for High Northern Latitudes with the Wildland Fire Emissions Inventory System (WFEIS)	Nancy French	GEIA	GEIA-38B
714	Improving the bottom-up estimates of natural geologic emissions via microseepage	Marika Stock	GEIA	GEIA-39C
718	Assessing vehicle fuel efficiency using a dense network of CO2 observations	Helen Fitzmaurice	GEIA	GEIA-40A
725	Comparison of bottom-up and top-down road transport emission inventories	Erika Trejos	GEIA	GEIA-41B
731	COvid-19 adjustmeNt Factors fOR eMissions (CONFORM): A dataset for	Thierno Doumbia	GEIA	GEIA-42C

	atmospheric models			
752	Global high-resolution emissions of soil NO _x , sea salt aerosols, and biogenic VOCs	Hongjian Weng	GEIA	GEIA-43A
759	The impact of land cover change and biogenic emissions from urban green space on summer ozone formation over North China Plain	Mingchen Ma	GEIA	GEIA-44B
777	Municipal solid waste burning is a neglected source of highly reactive VOCs that fuel ozone formation over rural India	Pooja Chaudhary	GEIA	GEIA-45C
788	Residential heating emissions cause more aerosol pollution than paddy-residue burning and in rural northwest India	Harshita Pawar	GEIA	GEIA-46A
834	Agricultural particulate matter emissions in the Colombian Orinoco region	Andres Ardila Ardila	GEIA	GEIA-47B
835	Particulate matter emission factors for light and heavy-duty vehicles in a South American megacity (São Paulo, Brazil)	Guilherme Pereira	GEIA	GEIA-48C

840	Reactive Nitrogen Emissions from Turfgrass Systems: Emission, Emission Factor, and Modeling	Viney Aneja	GEIA	GEIA-49A
841	Concentrations of Atmospheric VOCs Emitted from Fireworks in Southwest Mexico City Measured by a Real-time Vocus PTR-TOF-MS	Maribel Hernández-Camarillo	GEIA	GEIA-50B
846	Geostatistical analysis and inventory of emissions from sugarcane pre-harvest burning in Southwest Colombia	ANDREA CARDOZO	GEIA	GEIA-51C
851	Updating the 2013 National Emissions Inventory for air quality modeling in Central Mexico	Jose Rodriguez	GEIA	GEIA-52A
855	Estimating Road Transportation Emissions using CNNs and Satellite Imagery	Ryan Mukherjee	GEIA	GEIA-53B
93	Light absorption properties of brown carbon aerosols in the Asian outflow: Implications from a combination of filter and ground remote sensing observations at Fukue Island, Japan	Chunmao Zhu	Japan National Committee	JNC-1A

147	Evaluation of a Low-Cost Mobile PM2.5 Sensor and Application to the Measurements along the Japan National Route 1	Kenta Kanegae	Japan National Committee	JNC-2B
232	Effects of marine nitrogen fixation on the formation of atmospheric water-soluble organic nitrogen revealed by a laboratory incubation experiment	Yuzo Miyazaki	Japan National Committee	JNC-3C
248	A chemistry-transport modeling to support satellite observations of NO2 and CO2 emitted from megacities	Yousuke Yamashita	Japan National Committee	JNC-5A
249	Temperature and acidity dependence of secondary organic aerosol formation from α -pinene oxidation: implication for SOA models	Yange Deng	Japan National Committee	JNC-6C
281	Modelling the sources of air pollution over the East China Sea	Adedayo Adedeji	Japan National Committee	JNC-7A
476	First Concurrent Observations of NO2 and CO2 from Power Plant Plumes by Airborne Remote Sensing	Tamaki Fujinawa	Japan National Committee	JNC-8B
507	A comparison of the impact of TROPOMI and OMI tropospheric NO2 on global chemical data assimilation and emission inversion	Takashi Sekiya	Japan National Committee	JNC-9C

560	Aerosol soluble iron production under clean, haze and fog conditions at a coastal site of China	Daizhou Zhang	Japan National Committee	JNC-10A
581	Significant Anthropogenic Contribution to Particulate Chloride in Marine Aerosol in the Northern China	Junyi Liu	Japan National Committee	JNC-11B
588	Investigation of the wet removal rate of black carbon in East Asia: validation of a below- and in-cloud wet removal scheme in FLEXible PARTicle (FLEXPART) model v10.4	Yongjoo Choi	Japan National Committee	JNC-12C
589	Changes in tropospheric nitrogen dioxide vertical column densities over Japan and Korea during the COVID-19 using Pandora and MAX-DOAS	Yongjoo Choi	Japan National Committee	JNC-13A
593	Observing anthropogenic emissions of greenhouse gases and air pollutants with the GOSAT-GW satellite: Scientific targets and policy contributions	Hiroshi Tanimoto	Japan National Committee	JNC-14B
644	Model analysis of the atmospheric aerosol concentrations and depositions by ship-onboard observations over	Kazuho Yamaji	Japan National Committee	JNC-15C

	the Eastern Indian Ocean			
681	Investigation of adhesivity of marine organic aerosols by atomic force microscopy	Kohei Ono	Japan National Committee	JNC-16A
750	Chemical characteristics of humic-like substance (HULIS) organic aerosol in a cool-temperate forest area of Japan	Sonia Afsana	Japan National Committee	JNC-17B
82	Indoor Air Quality Indicators and Toxicity Potential at the Hospitals' Environment in Dhaka, Bangladesh	Shahid Zaman	MANGO	MANGO-1A
95	Indoor Exposure of Particulate Matter and Association of PM2.5 with Lung Function and Oxygen Saturation Level of the Residents in Dhaka, Bangladesh	Samiha Nahian	MANGO	MANGO-2B
179	Fine particulate matter concentrations during 2020-2021 Lunar New Year holidays and the COVID-19 pandemic in Ho Chi Minh City, Vietnam	Cong-Thanh Tran	MANGO	MANGO-3C

285	Evolution of urban aerosols in warm and humid environment: Number concentrations & specific density	Yang Lan	MANGO	MANGO-4A
300	Particulate Matter Pollution over North Western India using integrated modeling approach: Case Study of Pre-monsoon Event	MANISH SONI	MANGO	MANGO-5B
350	Investigating the performance of WRF-Chem in simulating the Indian Summer Monsoon and associated chemistry-feedback processes	Sreyashi Debnath	MANGO	MANGO-6C
408	A model- and observation-based approach to quantify trends and uncertainty of premature mortality due to PM2.5 in China	Paolo Giani	MANGO	MANGO-7A
452	Assessment of statistical models to improve performance of low-cost optical aerosol sensors in a warm and humid urban environment	Pongpichit Chuanraksasat NOTE: Withdrawn	MANGO	MANGO-8B
459	Effect of relative humidity on SOA formation from aromatic hydrocarbons: Implications from the evolution of gas- and particle-phase species	Tianzeng Chen	MANGO	MANGO-9C

460	Fungal spores as emission sources of 137Cs to ambient aerosols after a nuclear accident in Fukushima 2011	Kimitaka Kawamura	MANGO	MANGO-10A
486	Personal PM2.5 exposures of solid fuel users in rural China: in vitro toxicity and chemical composition	Alexandra Lai	MANGO	MANGO-11B
537	Multi-drugs Resistant Bacteria Associated Particulate Matter in the Ambient Air over Dhaka, Bangladesh	Razia Ankhy	MANGO	MANGO-12C
747	A ship-borne field campaign on ozone and precursors in Hong Kong waters	Xin FENG	MANGO	MANGO-13A
756	Measurements of hydrogen peroxide and formaldehyde concentrations over Toyama Prefecture in central Japan	Koichi Watanabe	MANGO	MANGO-14B
760	Formation and impacts of gaseous nitrated phenols at Hok Tsui during autumn and winter of 2018	Yi CHEN	MANGO	MANGO-15C
819	MEASUREMENT OF BLACK CARBON MASS CONCENTRATION BY USING AETHALOMETER IN MEGACITY LAHORE, PAKISTAN	Noor Ahmad	MANGO	MANGO-16A

845	Geographic distribution of fluorescent bioaerosols and roles of marine biological particles in the cloud processes over the Arctic Ocean	Kaori Kawana	MANGO	MANGO-17B **Moved to CATCH
37	Development and adaptation of sensors and samplers for vertical profiling using fixed-wing drones in the context of the Cooperation to Unravel the Role of Atmospheric Aerosols over the Amazonian Basin (CURE-3AB).	Maximilien Desservettaz	MAP-AQ	MAPAQ-86B
68	GEOS Simulations of Dust Deposition into Tropical Atlantic Ocean: Underestimate of Dust Emissions Compensated by Efficient Removals	Hongbin Yu	MAP-AQ	MAPAQ-87C
86	How Does Indoor Air Chemistry Affect Outdoor Air Pollution?	Freja Oesterstroem	MAP-AQ	MAPAQ-88A
99	What's really in the air? A season of pollen counts with novel real-time instruments	Fiona Tummon	MAP-AQ	MAPAQ-89B
107	Development of an Aerosol and Cloud Analysis System in the Caribbean	Bighnaraj Sarangi	MAP-AQ	MAPAQ-90C
108	Development of a Multi-Scale Infrastructure for Chemistry and Aerosols – MUSICA	Louisa Emmons	MAP-AQ	MAPAQ-91A

128	Linking land surface conditions with biogenic emissions, dry deposition and ozone in several latitude regions	Min Huang	MAP-AQ	MAPAQ-1A
138	Chemical characterization and source apportionment of PM2.5 in two West African cities (Korhogo and Abidjan in Cote d'Ivoire)	Sylvain Gnamien	MAP-AQ	MAPAQ-2B
182	PM2.5-bound silicon-containing secondary organic aerosols (Si-SOA) in Beijing ambient air	Jingsha Xu	MAP-AQ	MAPAQ-3C
225	Direct and indirect effects of aerosols on meteorology and air pollutant concentrations during dry and wet periods on Southeast Brazil	Sergio Espinosa	MAP-AQ	MAPAQ-4A
239	The impact of large-scale circulation on daily PM2.5 in major populated regions of China during winter	Zixuan Jia	MAP-AQ	MAPAQ-5B
246	Impact of aerosol chemical parameterization in a regional chemical transport model on PM distribution over Thailand.	Sherin Bran	MAP-AQ	MAPAQ-6C

258	Model evaluation of Zeppelin and surface observations of reactive compounds in the evolving Atmospheric Boundary Layer: Entrainment versus other ABL sources and sinks.	Laurens Ganzeveld	MAP-AQ	MAPAQ-7A
268	The impact of climate change on winter haze over the North China Plain	Shipra Jain	MAP-AQ	MAPAQ-8B
273	Association between pollution sources of ambient fine particulate and the changes in biomarkers of oxidative stress and inflammation: A case study in urban Beijing in 2016	Yidan Zhang	MAP-AQ	MAPAQ-9C
282	Mountain-valley circulation in Santiago, Chile: consequences on Black Carbon deposition over glaciers and Ozone injection into the free troposphere	Rémy Lapere	MAP-AQ	MAPAQ-10A
304	TRACE METALS ASSOCIATED WITH ATMOSPHERIC FINE PARTICULATE MATTERS IN THE TWO MOST POPULOUS CITIES IN VIETNAM	Chi Nguyen	MAP-AQ	MAPAQ-11B

347	Towards high resolution air quality modeling using large eddy simulation: a case study for Eindhoven, the Netherlands	Ruud Janssen	MAP-AQ	MAPAQ-12C
361	Assessing nitrogen dioxide intra-urban spatial variability in the West African city of Dakar, Senegal	Aissatou Faye	MAP-AQ	MAPAQ-13A
373	Investigation of the atmospheric chemistry of solid fuel burning tracers during a strong winter time particle pollution episode	Julien Kammer	MAP-AQ	MAPAQ-14B
383	Statistical and Machine Learning Methods for Evaluating Emissions Reduction Policies under Changing Meteorological Conditions	Minghao Qiu	MAP-AQ	MAPAQ-15C
394	Modelling changes in secondary inorganic aerosol formation and nitrogen deposition in Europe from 2005 to 2030	Jan Eiof Jonson	MAP-AQ	MAPAQ-16A
395	Ultrafine Aerosol Particles in Merida, Yucatan (Mexico)	Joshua Muñoz-Salazar	MAP-AQ	MAPAQ-17B
400	Black carbon dispersion in central and southern Chile in winter and summer 2016	Kevin Basoa	MAP-AQ	MAPAQ-18C

401	An Update on Low-cost Sensors for the Measurement of Atmospheric Composition	Richard Peltier	MAP-AQ	MAPAQ-19A
405	Increasing trends in secondary aerosols in Santiago: empirical analysis and modeling approach	Camilo Menares	MAP-AQ	MAPAQ-20B
425	Comparison of ground-based aerosol data, satellite observation and dust forecast models in African dust and high convective events over the Greater Caribbean Basin	Josele Rosas Nava	MAP-AQ	MAPAQ-21C
446	Modeling the combined impacts of changing human activity and a changing climate on air quality	Hannah Horowitz	MAP-AQ	MAPAQ-22A
461	From Low-Cost Sensors to High-Quality Data: the Importance of Collocated Calibration Model Development	Michael Giordano	MAP-AQ	MAPAQ-23B
470	Assessment of Atmospheric Particulate Matter (PM _{2.5} and PM _{2.5-10}) and Source Apportionment in the Ambient Air of Kenitra City, Morocco	Mounia TAHRI	MAP-AQ	MAPAQ-24C
477	Formaldehyde column density as an indicator for elevated surface ozone	Laura Judd	MAP-AQ	MAPAQ-25A

487	Combining light-absorption observation and source-oriented modelling for characterization and source apportionment of black carbon aerosol pollution in a typical Mediterranean coastal area	Andrea Milinković	MAP-AQ	MAPAQ-26B
493	Diagnosis and prognosis of air quality in South Korea using the UKESM1 modeling	Taegyung Lee	MAP-AQ	MAPAQ-27C
538	Polycyclic Aromatic Hydrocarbons (PAHs) in the Atmospheric Suspended Particulate Matter from Fertilizer Industries in Bangladesh	Snigdha Aziz	MAP-AQ	MAPAQ-28A
539	Effect of Global Atmospheric Datasets in Modeling Meteorology and Air Quality in the Andean Region of Ecuador	René Parra	MAP-AQ	MAPAQ-29B
542	Efficient vertical transport of black carbon in the planetary boundary layer	Kang Hu	MAP-AQ	MAPAQ-30C
550	Quality Assurance in the WMO-Global Atmosphere Watch (GAW) Program: A New Expert Team on Measurement Quality for More Standardization and Evaluation	Herman Smit	MAP-AQ	MAPAQ-31A

555	Sensitivity of Air Pollution in Quebec to Regional Emissions	Robin Stevens	MAP-AQ	MAPAQ-32B
558	Quantifying Linear and Non-Linear Influences of Aerosol Precursor Emissions on Pollutant Concentrations Using CMAQ-hyd	Jiachen Liu	MAP-AQ	MAPAQ-33C
559	The influence of chemical compositions to the sensitivity of visibility on the PM2.5 and relative humidity	Jiao Wang	MAP-AQ	MAPAQ-34A
574	Constructing a spatiotemporally coherent long-term PM2.5 concentration dataset over China during 1980–2019 using a machine learning approach	Huimin Li	MAP-AQ	MAPAQ-35B
594	Contribution of brown carbon to the light absorption and radiative effect of carbonaceous aerosols from biomass burning emissions in Chiang Mai, Thailand	Ying Zhang	MAP-AQ	MAPAQ-36C
622	Air Quality Modeling with Urban WRF-Chem system over a high altitude tropical City: Implementation and evaluation.	J. Miguel Pobleto	MAP-AQ	MAPAQ-37A

640	Trace Elements From Ocean-Going Vessels in East Asia: Vanadium and Nickel Emissions and Their Impacts on Air Quality	Junri Zhao	MAP-AQ	MAPAQ-38B
649	Insights into future spatial and temporal variability of PM2.5 and O3 in Xiamen, South China	Qixian Liu	MAP-AQ	MAPAQ-39C
650	Modelling the impact of urban traffic management strategies on emissions and air quality levels in Barcelona (Spain)	Daniel Rodriguez-Rey	MAP-AQ	MAPAQ-40A
651	A cross-model examination of the impact of orography and model resolution on pollutant transport	Alexandros Poulidis	MAP-AQ	MAPAQ-41B
652	RWANDA AIR POLLUTION ASSESSMENT AND FORECASTING.	HABINEZA THEOBARD	MAP-AQ	MAPAQ-42C
655	Characteristics and Source Apportionment of Trace Metals in PM10 and PM2.5 at a Traffic Site in Agra, India.	Surat Dewan	MAP-AQ	MAPAQ-43A
665	Exploring strategies to improve source apportionment in urban areas: Combination and cross-validation of traditional (EPA-PMF) and new (Multi-Isotopic Fingerprint) models.	Carlos Souto-Oliveira	MAP-AQ	MAPAQ-44B

671	The study of atmospheric nitrous acid in the North China Plain	Wenqian Zhang	MAP-AQ	MAPAQ-45C
680	An Overview of long-term monitoring efforts of Persistent Organic Pollutants and pesticides in Africa	John Mwangi	MAP-AQ	MAPAQ-46A
687	Modeling diurnal variation of surface PM2.5 concentrations over East China with WRF-Chem: impacts from boundary-layer mixing and anthropogenic emission	Qiuyan Du	MAP-AQ	MAPAQ-47B
688	Uncertainties propagated from optical properties in aerosol classification schemes	Ariel Scagliotti	MAP-AQ	MAPAQ-48C
693	Evaluating the impact of dust events on Cloud Condensation Nuclei (CCN) and Aerosol Load levels over the East Mediterranean using satellite observations	Maria Sfakianaki	MAP-AQ	MAPAQ-49A
697	Assessing the role on two anthropogenic emission inventories on the outcomes of air quality simulations for the metropolitan area of Buenos Aires	Melisa Diaz Resquin	MAP-AQ	MAPAQ-50B

698	MAIAC algorithm calibration uncertainties for sites with low AOD values. Case study: Metropolitan Area of Buenos Aires	Josefina Urquiza	MAP-AQ	MAPAQ-51C
707	Importance of model complexity on modeling ambient air quality and the resulting health impacts	Forrest Lacey	MAP-AQ	MAPAQ-52A
727	Towards an automated algorithm for surface PM2.5 estimation using stacked machine learning	Kyle Shores	MAP-AQ	MAPAQ-53B
737	Aerosol Optical Depth, decadal (2007-2018) scenario over four megacities of India: An Assessment using Gridded MODIS Satellite Observations	Priyanshu Gupta	MAP-AQ	MAPAQ-54C
741	The observation of particulate matters in a research vessel: indoor concentrations and size distributions	wu xudong	MAP-AQ	MAPAQ-55A
743	Characterization, oxidative potential (OP) and health risk analysis of PM2.5 bound trace metals during foggy and non-foggy episodes at a site in the Indo-Gangetic Plain	Isha Goyal	MAP-AQ	MAPAQ-56B

753	Characteristics of Volatile Organic Compounds over Hong Kong Waters in a Pilot Ship Measurement Campaign During Ozone Episode	Ho Wun Lee	MAP-AQ	MAPAQ-57C
765	The aggravated short-term PM2.5-related health risk due to atmospheric transport in the Yangtze River Delta	Peng Wang	MAP-AQ	MAPAQ-58A
769	Long-term fog variation and its impact factors over East China	Shuqi Yan	MAP-AQ	MAP-AQ59B
778	A new air quality index to measure the impact of urban trees on air quality, human health and secondary pollutant formation	Savita Datta	MAP-AQ	MAPAQ-60C
781	Spatial bias-correction method for street-scale air quality models	Jan Armengol	MAP-AQ	MAPAQ-61A
784	Simultaneous observations of NO2 and HCHO from three different locations in India	Mriganka Biswas	MAP-AQ	MAPAQ-62B
789	Predicting future changes of soil selenium based on Se atmospheric deposition.	Yutao Chen	MAP-AQ	MAPAQ-63C
790	Simulated fine particulate air pollution attributable to coal-fired power in the Highveld	Patricia-Ann van der Walt	MAP-AQ	MAPAQ-64A

792	Mixing Height Simulations over the Chiang Mai Valley Atmosphere in Northern Thailand	Ronald Macatangay	MAP-AQ	MAPAQ-65B
800	Decision support system for air-quality management in Delhi and the surrounding region	Gaurav Govardhan	MAP-AQ	MAPAQ-66C
801	Fog-forecast over the northern region of India employing realistic aerosol	Gaurav Govardhan	MAP-AQ	MAPAQ-67A
805	Biogenic Volatile Organic Compounds (BVOCs) and roles on Air Quality (Ozone and PM2.5) over Northern Thailand	Vanisa Surapipith	MAP-AQ	MAPAQ-68B
806	Rainwater Chemistry during the GoAmazon2014/5: the multiple influence of biogenic, biomass burning and urban pollution on the composition of precipitation in Central Amazonia	Theotonio Pauliquevis	MAP-AQ	MAPAQ-69C
807	Development of a regional air quality reanalysis over the contiguous United States	Rajesh Kumar	MAP-AQ	MAPAQ-70A
808	Forecasting of PM2.5 Concentration under Climate Change over Thailand	Angkhana Ketjalan	MAP-AQ	MAPAQ-71B

810	Levels of PM2.5 in Great Mendoza (Argentina) and its impact on bicyclists	Maria Tames	MAP-AQ	MAPAQ-72C
813	Effects of Land Use and Land Cover pattern on Meteorology and Air Quality over Delhi	Preeti Gunwani	MAP-AQ	MAPAQ-73A
816	Modeling secondary organic aerosol formation from volatile chemical products in Los Angeles	Elyse Pennington	MAP-AQ	MAPAQ-74B
817	Understanding NO2 concentrations on the South African Highveld using a ground-based monitoring system	Refilwe Kai	MAP-AQ	MAPAQ-75C
824	Understanding aerosol composition in an inter-Andean valley impacted by sugarcane-intensive agriculture and urban emissions.	Angela Vargas	MAP-AQ	MAPAQ-76A
826	THE DIURNAL EVOLUTION OF AIR POLLUTANTS IN NAIROBI CITY, KENYA	Constance Okuku	MAP-AQ	MAPAQ-77B
827	EC/OC content in PM2.5 in five Latin American cities and megacities: air quality and radiative forcing	Julian Gelman Constantin	MAP-AQ	MAPAQ-78C
829	Experimental air quality forecasting with the Rapid-Refresh model coupled to chemistry (RAP-Chem)	Jordan Schnell	MAP-AQ	MAPAQ-79A

831	Size-segregated ions and carbonaceous fractions of ambient aerosol in Bogotá	Lady Mateus	MAP-AQ	MAPAQ-80B
832	Effects of grid resolution on urban air quality simulation with MUSICA _{v0}	Duseong Jo	MAP-AQ	MAPAQ-81C
833	Impact of air quality management programs on non-criteria and criteria primary atmospheric pollutants in the Metropolitan Zone of Mexico Valley	Omar Amador-Muñoz	MAP-AQ	MAPAQ-82A
850	Air quality modeling with WRF-Chem / DART system for Central Mexico	Evelyn Martinez	MAP-AQ	MAPAQ-83B
852	The AQ-WATCH Project - Worldwide Analysis and Forecasting of Atmospheric Composition for Health	Yvonne Boose	MAP-AQ	MAPAQ-84C
853	Stable and transport indices applied to winter air pollution over the Yangtze River Delta China	Xiaohui Liu	MAP-AQ	MAPAQ-85A
121	FUTURE AEROSOL RADIATIVE FORCING OVER THE ARCTIC	Ulas Im	PACES	PACES-1A
126	Isotopic composition of atmospheric nitrate in Fairbanks, Alaska: results from the pre-ALPACA campaign 2019	Sarah Albertin	PACES	PACES-2B

129	Ozone and carbon monoxide observations over open oceans on R/V Mirai from 67° S to 75° N during 2012 to 2017: Testing global chemical reanalysis TCR-2 in terms of Arctic processes and low ozone levels at low latitudes	Yugo Kanaya	PACES	PACES-3C
372	WRF-Chem numerical analysis of YAK-AEROSIB aircraft data with BC emissions from Russian oil/gas flarings evaluated by satellite data	T. ONISHI	PACES	PACES-4A
462	Model simulations of short-lived climate forcers in the Arctic	Cynthia Whaley	PACES	PACES-5B
496	Modelling Air Quality in the Arctic and Northern Latitudes: An assessment of surface ozone.	Stephen Beagley	PACES	PACES-6C
576	Source attribution of Arctic black carbon and sulfate aerosols and associated Arctic surface warming during 1980–2018	Lili Ren	PACES	PACES-7A
609	Can a global chemistry climate model reproduce interannual variabilities and trends ofdepositions of sulfate, nitrate, and ammonium preserved in the SoutheasternGreenl and Dome ice core?	Kengo Sudo	PACES	PACES-8B

623	Modelling Atmospheric Chemistry and Vertical Transport in Fairbanks, Alaska	Sarah Johnson	PACES	PACES-9C
690	Observations of Extreme Wildfire Enhancements of CH ₃ OH, HCOOH, and PAN over the Canadian High Arctic	Tyler Wizenberg	PACES	PACES-10A
729	Size-Resolved Elemental Analysis of High-Latitude Mineral Dust Aerosol in Kluane National Park, Yukon	Arnold Downey	PACES	PACES-11B
730	Evaluating air quality and atmosphere composition impacts of Arctic wildfires in the summers of 2019 and 2020	Mark Parrington	PACES	PACES-12C
744	Wintertime surface based temperature inversions are related to differences in particulate matter and ozone on a 20 m vertical scale in Alaska	Meeta Cesler-Maloney	PACES	PACES-13A
764	Source and variability of formaldehyde (HCHO) vertical column density at northern high latitude: an integrated satellite, ground/aircraft, and model perspective	Tianlang Zhao	PACES	PACES-14B

774	Wintertime anthropogenic Arctic Air Pollution over Alaska	Eleftherios Ioannidis	PACES	PACES-15C
31	Development of a regional airshed chemical transport model for priority airsheds in Western Australia	Sean Lam	Southern Hemispheres Working Group	SH-1A
109	Particulate matter mass concentration in different size fractions related to meteorological variables in the Metropolitan Area of São Paulo	Victória Peli	Southern Hemispheres Working Group	SH-2B
111	Temperature response measurements from eucalypts give insight into the impact of Australian isoprene emissions on air quality in 2050	Kathryn Emmerson	Southern Hemispheres Working Group	SH-3C
251	Identifying the factors driving the Biogenic VOC uncertainty in CTM models in south-east Australia.	Jhonathan Ramirez	Southern Hemispheres Working Group	SH-4A
366	Dust emissions modelling over the semi-arid Argentinian territory	Ramiro Espada	Southern Hemispheres Working Group	SH-5B
380	Quantification and characterization of PM2.5 in Buenos Aires, Argentina.	Pablo Lichtig	Southern Hemispheres Working Group	SH-6C
403	Black Carbon atmospheric emissions from biomass burning in the Amazon reaching the Chilean Central Andes: evidence	Maria Ruggeri	Southern Hemispheres Working Group	SH-7A

	from a multi-technical approach			
427	An Overview of the COALA-2020 campaign at Cataract (Characterising Organics and Aerosol Loading in Australia)	Clare Murphy (Paton-Walsh)	Southern Hemispheres Working Group	SH-8B
464	Mass spectrometry system (MALDI-TOF) validation in the identification of Aspergillus Nigri Section species of atmospheric air from São Paulo, Brazil.	Valter Duo Filho	Southern Hemispheres Working Group	SH-9C
489	Intercontinental Air Pollution Transport in the Southern Hemisphere	Lily Sheridan	Southern Hemispheres Working Group	SH-10A
511	Radon Dosimetry in Nchanga Underground Mine on The Copperbelt Province	RABBISON BANDA	Southern Hemispheres Working Group	SH-11B
561	Can we see the impact of indigenous fire management on the interannual variability of carbon monoxide?	Shyno Susan John	Southern Hemispheres Working Group	SH-12C
602	Prediction of Aerosol acidity in the remote marine boundary layer of the southern ocean during summer.	Sive Xokashe	Southern Hemispheres Working Group	SH-13A

636	Southern Ocean latitudinal gradients of Cloud Condensation Nuclei	Ruhi Humphries	Southern Hemispheres Working Group	SH-14B
643	Mapping the sources of organic PM1: A case study from the COALA campaign in Southeast Australia	Adhitya Sutresna	Southern Hemispheres Working Group	SH-15C
748	Using Climate Mode Indices to Forecast Carbon Monoxide Variability in Fire-Prone Southern Hemisphere Regions	William Daniels	Southern Hemispheres Working Group	SH-16A
751	Biomass burning smoke and coincident water vapor over the southeast Atlantic stratocumulus region: results from observations and models	Kristina Pistone	Southern Hemispheres Working Group	SH-17B
815	AVOC and BVOC sensitivity study for ozone pollution in Santiago, Chile combining observations and a box model	Constanza Urbina	Southern Hemispheres Working Group	SH-18C
836	Update of Tropospheric Ozone trends at Ushuaia GAW Station	Pablo Medina	Southern Hemispheres Working Group	SH-19A
843	The influence of ventilation coefficient on carbon monoxide concentration in São Paulo city: An observation from lidar data	Gregori Moreira	Southern Hemispheres Working Group	SH-20B

844	Anthropogenic air pollutant emission inventories for South America	Nicolas Huneus	Southern Hemispheres Working Group	SH-21C
46	Ozone production in African biomass burning	James Lee	TOAR-II	TOAR-1A NOTE: Withdrawn
91	Reactive Uptake of Ozone to Simulated Seawater: Factors Affecting Uptake and Iodine Formation	Stephanie Schneider	TOAR-II	TOAR-2B
105	The TOAR-II Satellite Ozone Focus Working Group	Helen Worden	TOAR-II	TOAR-3C
141	Trends of surface ozone and its precursors over 20 years in Southern Germany	Dagmar Kubistin	TOAR-II	TOAR-4A
155	Links between oceanic ozone uptake and biogenic organic matter found in the sea surface microlayer	Katherine Weddell	TOAR-II	TOAR-5B
176	Productions of gaseous isoprene, acetone, and acetaldehyde from reactions between ozone and seawater.	Daniel Phillips	TOAR-II	TOAR-6C
209	Harmonised assessment of tropospheric ozone data records from multiple satellites with the ozonesonde global network	Arno Keppens	TOAR-II	TOAR-7A
218	Large contribution of biomass burning emissions to ozone throughout the global remote troposphere	Ilann Bourgeois	TOAR-II	TOAR-8B

253	(Global) direct and in-direct effects of heat-stressed vegetation on ozone extremes	Tamara Emmerichs	TOAR-II	TOAR-9C
290	Oxidation of low-molecular weight organic compounds in cloud droplets: global impact on tropospheric oxidants and other trace gases	Simon Rosanka	TOAR-II	TOAR-10A
298	Recent Chinese ozone trends as seen from space and models: exploring the impact from local precursor emissions reductions	Gaëlle Dufour	TOAR-II	TOAR-11B
314	New tropospheric ozone dataset from OMPS/NPP and the detection of enhanced tropospheric ozone above South American megacities	Andrea Orfanoz-Cheuquelaf	TOAR-II	TOAR-12C
320	Local and global impacts of C1-C3 alkyl nitrate chemistry and emissions on tropospheric ozone	Maria Zamyatina	TOAR-II	TOAR-13A
355	Long-term trends in tropospheric ozone at the Cape Verde Atmospheric Observatory	Matthew Rowlinson	TOAR-II	TOAR-14B
362	Vegetation feedbacks during drought exacerbate ozone air pollution extremes in Europe	Meiyun Lin	TOAR-II	TOAR-15C

367	Contributions of World Regions to the Global Tropospheric Ozone Burden Change From 1980 to 2010	Yuqiang Zhang	TOAR-II	TOAR-16A
414	Global Surface Ozone Concentration Mapping Through Data Fusion at Fine Resolution for 1990 to 2017 to Support Health Impact Assessment	Jason West	TOAR-II	TOAR-17B
442	The TOAR-II Ozone and its Precursors in the Tropics Focus Working Group's activities	Audrey Gaudel	TOAR-II	TOAR-18C
458	The observation and modelling study of ozone enhancement in NOx-saturated megacity during the 2018 summer heat wave	Junsu Gil	TOAR-II	TOAR-19A
467	Lower than expected summertime clean-background ozone concentrations derived from ozone precursor relationships in the Southeast United States	Qiyang Yan	TOAR-II	TOAR-20B
468	Night-time Ozone Chemistry and Influence of Meteorological Parameters at a ground level site in Delhi, India	Pallavi Saxena	TOAR-II	TOAR-21C
504	TOAR-II Chemical Reanalysis Focus Working Group	Kazuyuki Miyazaki	TOAR-II	TOAR-22

509	Trends of Surface and Tropospheric Ozone over Southeast Asia and their drivers during 2005 to 2014	Xiaolin Wang	TOAR-II	TOAR-23B
535	Current organizational and research plans of the TOAR-II Statistics Focus Working Group	Kai-Lan Chang	TOAR-II	TOAR-24C
571	Improved high-quality data of volatile organic compounds thanks to metrological developments	Céline Pascale	TOAR-II	TOAR-25A
580	Highlights from a multi annual observation of ozone deposition in a deciduous mature forest in Italy	Giacomo Gerosa	TOAR-II	TOAR-26
584	The TOAR database: data harmonization and quality assurance on global air quality data	Niklas Selke	TOAR-II	TOAR-27C
601	Harmonization and Evaluation of Ground-based Instruments for Free-Tropospheric Ozone Measurements by TOAR-II Focus Working Group "HEGIFTOM"	Roeland Van Malderen	TOAR-II	TOAR-28A
606	Long-term measurements of tropospheric ozone and precursors (HCHO and CO) from the NDACC FTIR ground-based network	Corinne Vigouroux	TOAR-II	TOAR-29B

607	TOAR-II Tropospheric Ozone Precursors (TOP)- Focus Working Group: Photochemical ozone formation and free radical chemistry in five Chinese megacities in summer 2018	Xufei LIU	TOAR-II	TOAR-30C
624	TOAR-II Tropospheric Ozone Precursors (TOP) – Focus Working Group: Evaluating the Regional and Global Distributions of Ozone Precursors in relation to Ozone	Yasin Elshorbany	TOAR-II	TOAR-31A
628	Distribution and seasonal variability of ozone and carbon monoxide over the tropics with 20 years of measurements	Maria Tsvilidou	TOAR-II	TOAR-32B
638	Characteristics and source analysis of tropospheric ozone in Qinghai Tibet Plateau	Chenghao Xu	TOAR-II	TOAR-33C
647	High ozone over the bread basket of India ramped up by isoprene and acetaldehyde	Vinod Kumar	TOAR-II	TOAR-34A
656	The TOAR-II Ozone Radiative Forcing (ORF) Working Group activities	Fiona O'Connor	TOAR-II	TOAR-35B

679	Surface ozone concentrations response to current air pollution mitigation strategies in Chinese megacity agglomerations	Yijuan Zhang	TOAR-II	TOAR-36C
686	Implementation of a New Value of the Ozone Absorption Cross-section per Molecule at 253.65 nm (air) for Global Atmospheric Ozone Measurement	Paul Brewer	TOAR-II	TOAR-37A
689	Effect of global and local biogenic emission inventories in surface ozone simulations using WRF-Chem	Felipe Cifuentes	TOAR-II	TOAR-38B
691	Observations of light NMHCs over the central Himalayas: Assessment of ozone production potential using a photochemical box model	Mahendar Rajwar	TOAR-II	TOAR-39C
696	Multimodel evaluation of present-day and climate-driven changes in surface ozone over Africa and South America	Florence Brown	TOAR-II	TOAR-40A
715	TOAR-II Tropospheric Ozone Precursors (TOP) – Focus Working Group: Addressing multi-scale processes in South America	Rodrigo Seguel	TOAR-II	TOAR-41B

732	Evaluation of tropospheric ozone measurements derived from the satellite UV sensors	Natalya Kramarova	TOAR-II	TOAR-42C
739	Impact of the 2020 Colorado wildfires on Ozone in the Front Range	Patricia Razafindrambina	TOAR-II	TOAR-43A
766	Ozone Chemistry over a Western Himalayan Site	Renu Masiwal	TOAR-II	TOAR-44B
772	Investigating the governing processes and synergic effect between anthropogenic and biogenic emissions on ozone pollution over northern China	Feifan Yan	TOAR-II	TOAR-45C
812	Estimation of Ozone during lightning event in pre-monsoon season	Swagata Payra	TOAR-II	TOAR-46A