

Submission Id	Title	Presenting	Early Career Scientist	IGAC Activities	IGAC Regional Working Groups	In Person or Remote	Session
38	Observations of NO _y , O ₃ and CO in the Arctic Summertime During the SEANA Cruise Campaign	Anna Callaghan	YES			In Person	Session 1
39	A highly sensitive laser-induced fluorescence system for the detection of trace level sulfur dioxide	Loren Temple	YES			In Person	Session 1
85	OH/HO ₂ uptake coefficient onto various polydisperse aerosols determined by combining laser-pump and laser-induced fluorescence	Jiaru Li	YES	ACAM: Atmospheric Chemistry and the Asian Monsoon	Japan National Committee	Remotely	Session 1
133	Molecular-level characterization of Brown Carbon chromophores in atmospherically-relevant samples and their gas-particle distribution	Chong Xing	YES		China Working Group	Remotely	Session 1
137	New Particle Formation Events at a Unique "Dragon Eye" Marine Lake Area in Rogoznica, Croatia	Kristijan Vidovic	YES			In Person	Session 1
146	Identification of Different Generation Oxidation Products: Secondary Organic Aerosol Formation from Aromatic Precursors (Toluene and m-Xylene)	Deepchandra Srivastava	NO	ACAM: Atmospheric Chemistry and the Asian Monsoon	MANGO: Monsoon Asia and Oceania Networking Group	In Person	Session 1
156	Highly oxygenated organic molecules formation in the oxidation of limonene by OH radical: significant contribution of hydrogen abstraction pathway	Hao Luo	YES		China Working Group	Remotely	Session 1
169	NO ₃ radical suppresses new particle formation from biogenic precursor gases	DANDAN LI	NO			In Person	Session 1
205	Cl-CRM - Determining chlorine reactivity in the troposphere	Jordan Stewart	YES			In Person	Session 1
206	Applying known chemical kinetics data to model atmospheres of extrasolar planets	Maria Zamyatina	YES			In Person	Session 1
207	Relationships between supermicrometer particle concentrations and cloud water sea salt and dust concentrations: Analysis of MONARC and ACTIVATE data	Marisa Gonzalez	YES		ANGA: African Group on Atmospheric Sciences	In Person	Session 1
209	Studies for Atmospheric Mercury Using Stable Isotope Ratio Measurement	Satoshi Irei	NO			Remotely	Session 1
233	Influence of NO _x and NO ₃ radicals on cloud condensation nuclei activity of monoterpene secondary organic aerosols	Chenqi Zhang	YES	ACAM: Atmospheric Chemistry and the Asian Monsoon	China Working Group	Remotely	Session 1

263	A modified prewhitening method for long-term trend analysis of atmospheric aerosols at a remote high-altitude site in the Indian central Himalaya.	Rahul Sheoran	YES	ACAM: Atmospheric Chemistry and the Asian Monsoon, AMIGO: Analysis of eMissions using Observations, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	In Person	Session 1
299	Iron carboxylate photochemistry as a particle phase radical source and feedbacks to gas phase nitrogen oxides and iodine	Markus Ammann	NO		In Person	Session 1
315	Tropospheric and Stratospheric Photolysis CF ₃ CHO: When is CF ₃ CHO a Source of HFC-23?	Mads Sulbaek Andersen	NO		Remotely	Session 1
392	O:C ratios from pyrolytic aerosol: What do we know about the continuum from emission to aged aerosol?	Tami Bond	NO		Americas Working Group In Person	Session 1
409	Tropospheric Bimolecular Sinks of Criegee intermediates Derived from Hydrofluoroolefins	Nathan Watson	YES		In Person	Session 1
411	Mathematically Representing Spatial Representation Errors in Satellite Retrievals	Amir Souri	NO	AMIGO: Analysis of eMissions using Observations	Remotely	Session 1
418	Elucidation of the Structures and Formation Mechanism of Dimer Esters in α -Pinene and β -Pinene Secondary Organic Aerosol	Christopher Kenseth	YES		Americas Working Group In Person	Session 1
420	Morphology and hygroscopicity of nanoplastics in sea spray determined by humidified tandem differential mobility analysis coupled to high-resolution time-of-flight aerosol mass spectrometry	Sarah Petters	NO		In Person	Session 1
452	Effects of photochemical aging on biomass burning aerosol properties: from field and laboratory observations	Huihui Wu	YES		In Person	Session 1
4	Quantifying vehicle road dust emission factors in South African low-income residential areas using field-based empirical measurements.	Ncobile Nkosi	YES		In Person	Session 2
6	Modelling and measuring VOCs concentrations in East Asia	Adedayo Adedeji	YES		In Person	Session 2
13	Regional emissions of nitrous oxide (N ₂ O) estimated by inverse modelling of atmospheric observations	Prabir Patra	NO		In Person	Session 2
24	Modelling the Impact of HO ₂ Uptake onto Aerosols During Summertime in Beijing using the Master Chemical Mechanism	Joanna Dyson	YES		In Person	Session 2
32	Interannual variability of aerosols in the UTLS and its connection to the pollution sources and Asian summer monsoon variability – Results from AeroCom models and observations	Mian Chin	NO	ACAM: Atmospheric Chemistry and the Asian Monsoon	In Person	Session 2

34	Using a coupled chemistry-climate-vegetation modeling system to evaluate BVOC emission changes in the Earth system	Ryan Vella	YES			In Person	Session 2
36	Potential of machine learning to simulate atmospheric trace gases	Imran Girach	YES	ACAM: Atmospheric Chemistry and the Asian Monsoon, TOAR: Tropospheric Ozone Assessment Report	MANGO: Monsoon Asia and Oceania Networking Group	In Person	Session 2
40	Source attribution of aerosol impacts to snow cover over High Mountain Asia	Chayan Roychoudhury	YES	CATCH: the Cryosphere and Atmospheric Chemistry, AMIGO: Analysis of eMissions using Observations	MANGO: Monsoon Asia and Oceania Networking Group	In Person	Session 2
44	Development of a system for optimised air quality forecast by Model Output Statistics	Sabine Robrecht	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality		In Person	Session 2
45	Isoprene-consuming production and loss pathways of tropospheric ozone	Ralph Lehmann	NO	TOAR: Tropospheric Ozone Assessment Report		In Person	Session 2
46	An update on tropospheric ozone trends above western North America	Kai-Lan Chang	NO	TOAR: Tropospheric Ozone Assessment Report		In Person	Session 2
47	Arctic tropospheric ozone: assessment of model performance	Cynthia Whaley	NO	PACES: Air Pollution in the Arctic: Climate, Environment, and Societies		In Person	Session 2
54	Probing the cause of air pollution episodes in Taichung Metropolitan area, Taiwan by air quality modeling	Ming-Tung Chuang	NO	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	China Working Group	Remotely	Session 2
56	Using a Machine Learning Method to Make Projections of Tropospheric Ozone Along Different Shared Socioeconomic Pathways from 2020 to 2050 in China	Shu Zhang	YES	TOAR: Tropospheric Ozone Assessment Report	China Working Group	In Person	Session 2

63	Sources and Photochemical Behaviour of Atmospheric Nitrophenols	Morshad Ahmed	YES	ACAM: Atmospheric Chemistry and the Asian Monsoon, CCMi: Chemistry Climate Model Initiative, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	Americas Working Group, MANGO: Monsoon Asia and Oceania Networking Group	In Person	Session 2
64	TOAR-II Chemical Reanalysis Focus Working Group	Kazuyuki Miyazaki	NO	TOAR: Tropospheric Ozone Assessment Report		In Person	Session 2
65	Organic aerosols at Fukue Island before, during and after large scale lockdown in China due to COVID-19	Chunmao Zhu	NO	PACES: Air Pollution in the Arctic: Climate, Environment, and Societies	Japan National Committee	Remotely	Session 2
73	Development of air quality products for societal applications based on a high-resolution chemical reanalysis	Rajesh Kumar	NO	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	Americas Working Group	In Person	Session 2
79	Hydrogen: the Fuel of the Future? Modelling its Environmental Impacts	Hannah Bryant	YES			In Person	Session 2
80	Hydrogen peroxide in the upper tropical troposphere over the Atlantic Ocean and western coast of Africa during the CAFE-Africa aircraft campaign	Zaneta Hamryszczak	YES			In Person	Session 2
82	Regional-scale modeling in a global model with MUSICA _{v0} : MUlti-Scale Infrastructure for Chemistry and Aerosols	Louisa Emmons	NO	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality		In Person	Session 2
83	Application of the Multi-Scale Infrastructure for Chemistry and Aerosols (MUSICA) over Africa	Wenfu Tang	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	ANGA: African Group on Atmospheric Sciences	Remotely	Session 2

84	Automated machine learning to evaluate the information content of tropospheric trace gas columns for fine particle estimates over India: a modeling testbed	Zhonghua Zheng	YES	CCMi: Chemistry Climate Model Initiative, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	In Person	Session 2
93	Climate impacts of a historical shift in aerosol precursor emissions	Vichawan Sakulsupich	YES	CCMi: Chemistry Climate Model Initiative	Remotely	Session 2
96	Future atmospheric composition in a widescale but plausible tree planting scenario and implications for climate in UKESM1 and CESM2.	James Weber	YES	CCMi: Chemistry Climate Model Initiative	In Person	Session 2
97	The importance of using emission pre-processors in CTMs: TMS-MP meets HERMES	Sarah-Lena Meyer	YES	GEIA: Global Emissions Initiative	In Person	Session 2
101	Anomalies of tropospheric gases obtained with multiple ground-based FTIR & modeling evaluation during the 2020 COVID19 lockdown	Ivan Ortega	NO	AMIGO: Analysis of eMissions using Observations	Americas Working Group In Person	Session 2
102	Recent global measurements and modeling of chlorine and bromine containing VSLs	Eric Apel	NO	ACAM: Atmospheric Chemistry and the Asian Monsoon	In Person	Session 2
104	Modelled impact of large-scale circulation on daily PM2.5 concentrations and PM2.5 sensitivity in China during winter	Zixuan Jia	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality, ACAM: Atmospheric Chemistry and the Asian Monsoon	Remotely	Session 2

110	Consequences of insufficient production of temporary NO _x reservoirs on ozone production in models during KORUS-AQ	Katherine Travis	NO	ACAM: Atmospheric Chemistry and the Asian Monsoon, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	MANGO: Asia and Oceania Networking Group	In Person	Session 2
111	The impact of vertical wind on the daily variation of surface ozone concentration	Ying Li	NO	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	China Working Group	Remotely	Session 2
115	The interaction of weather and air pollution extremes in warmer climate	Tamara Emmerichs	NO	TOAR: Tropospheric Ozone Assessment Report		In Person	Session 2
118	The AMIGO (Analysis of eMissions using Observations) project of IGAC	Claire Granier	NO	AMIGO: Analysis of eMissions using Observations		In Person	Session 2
121	Rapid reduction in black carbon emissions from China and the dominance of the residential sector: evidence from 2009-2022 observations on Fukue Island, Japan	Yugo Kanaya	NO	GEIA: Global Emissions Initiative	Japan National Committee	In Person	Session 2
126	Impacts of Aromatic Chemistry on the Global Atmosphere	Stephen MacFarlane	YES			In Person	Session 2
127	The global COVID-19 lockdown impacts on secondary inorganic aerosols	Takashi Sekiya	NO		Japan National Committee	In Person	Session 2
130	Introducing new lightning schemes into the CHASER (MIROC) chemistry climate model	Yanfeng He	YES	CCMi: Chemistry Climate Model Initiative		Remotely	Session 2

136	Photosynthetic stomatal conductance models are better suited for modelling the pollution uptake of vegetation and reveal nocturnal pollution uptake contributes significantly to the total uptake.	Savita Datta	NO	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality, TOAR: Tropospheric Ozone Assessment Report, ACAM: Atmospheric Chemistry and the Asian Monsoon	MANGO: Monsoon Asia and Oceania Networking Group	Remotely	Session 2
142	Comparative analyses of fleet replacement strategies for road-transport air pollution reduction over India by 2030	Haseeb Hakkim	YES	ACAM: Atmospheric Chemistry and the Asian Monsoon, AMIGO: Analysis of eMissions usinG Observations, GEIA: Global Emissions Initiative, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	MANGO: Monsoon Asia and Oceania Networking Group	In Person	Session 2
145	Evaluating biomass burning organic aerosol markers in ToF-ACSM data using a capture vapouriser: Case study from the COALA-2020 campaign	Adhitya Sutresna	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	Southern Hemisphere Working Group	In Person	Session 2
157	An interactive model AMmonia-CLIMate (AMCLIM) for quantifying climate-dependent ammonia emissions from agriculture	Jize Jiang	YES	GEIA: Global Emissions Initiative		In Person	Session 2
158	Studying the chemistry-climate interaction and impact of dust on the Indian Summer Monsoon Rainfall	Sreyashi Debnath	YES	ACAM: Atmospheric Chemistry and the Asian Monsoon	MANGO: Monsoon Asia and Oceania Networking Group	Remotely	Session 2
160	Extreme PM and ozone pollution over central Europe: interactions of the urban canopy meteorological forcing and radiative effects of urban emissions	Alvaro Prieto Perez	YES			In Person	Session 2
167	Measurements and modelling of OH, HO ₂ , RO ₂ and OH reactivity on the Tibetan Plateau	Dwayne Heard	NO			Remotely	Session 2

168	Unprecedented surface ozone decreases in China under net-zero policies: chemistry-climate model projections corrected with deep learning	Zhenze Liu	YES			Remotely	Session 2
170	Evaluating the first year of volatile organic compound (VOC) measurements at the subtropical remote site of Hateruma in East Asia	Takuya Saito	NO	ACAM: Atmospheric Chemistry and the Asian Monsoon, AMIGO: Analysis of emissions using Observations, GEIA: Global Emissions Initiative, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality, TOAR: Tropospheric Ozone Assessment Report	MANGO: Monsoon Asia and Oceania Networking Group	In Person	Session 2
178	MAX-DOAS observations of formaldehyde and nitrogen dioxide at three sites in Asia and comparison with the global chemistry transport model CHASER	Hossain Hoque	NO	ACAM: Atmospheric Chemistry and the Asian Monsoon	MANGO: Monsoon Asia and Oceania Networking Group	Remotely	Session 2
179	Evaluating the GEOS-Chem High Performance (GCHP) model with observations of radical species at a UK monitoring supersite	Luke Fakes	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality		In Person	Session 2
180	Land cover change impacts on tropospheric composition: from the satellite record to modelling.	Emma Sands	YES			In Person	Session 2
189	Understanding the impact of future land-use change on climate through emissions of biogenic volatile organic compounds	Eleanor Smith	YES			In Person	Session 2
191	Satellite observation of wildfires in the Northern Hemisphere and their impact on CO and aerosol long-range transport: variability over 2008-2022	Antoine Ehret	YES			In Person	Session 2
193	Sources and processes influencing black carbon over Alaska during wintertime	Eleftherios Ioannidis	YES	PACES: Air Pollution in the Arctic: Climate, Environment, and Societies	Americas Working Group	In Person	Session 2
196	Identifying sources of local air pollution in Fairbanks, Alaska using FLEXPART-WRF simulations and observational data from the Alaskan Layered Pollution and Chemical Analysis (ALPACA) 2022 campaign.	Natalie Brett	YES	PACES: Air Pollution in the Arctic: Climate, Environment, and Societies		In Person	Session 2

197	Global datasets of natural emissions for the Copernicus Atmosphere Monitoring Service (CAMS) including emissions from vegetation, soils, oceans and volcanoes	Marina Liaskoni	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality, GEIA: Global Emissions Initiative		In Person	Session 2
199	Uncertainties estimation in aerosol classification for Latin American cities	Ariel Scagliotti	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	Americas Working Group, Southern Hemisphere Working Group	In Person	Session 2
200	Influence of settings and predictors in neural network model performance: a Buenos Aires air quality case	Ariel Scagliotti	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	Americas Working Group, Southern Hemisphere Working Group	In Person	Session 2
201	Seasonal and regional characteristics of carbon monoxide anomalies as seen by IAGOS between 2002 and 2019:	Thibaut Lebourgeois	YES			In Person	Session 2
213	Contrasting background ozone patterns along the Andes	Laura Gallardo	NO	TOAR: Tropospheric Ozone Assessment Report	Americas Working Group, Southern Hemisphere Working Group	Remotely	Session 2
214	Diagnosing the stratospheric proportion in tropospheric ozone using triple oxygen isotopes as tracers	Hao Xu	YES	TOAR: Tropospheric Ozone Assessment Report, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	Japan National Committee	Remotely	Session 2
215	Constraining the accuracy of satellite derived XCO2 and XCH4 trends and variations over oceans - two approaches using commercial ship and aircrafts	Astrid Müller	NO	AMIGO: Analysis of eMissions using Observations	Japan National Committee	Remotely	Session 2
216	Shipborne observations of black carbon aerosols in the Arctic Ocean during summer and autumn 2016–2020: Episode analysis and model comparison	Yange Deng	NO	PACES: Air Pollution in the Arctic: Climate, Environment, and Societies	Japan National Committee	Remotely	Session 2

231	Air quality deterioration episode associated with typhoon over the complex topographic environment in central Taiwan	Chuan-Yao Lin	NO	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	Remotely	Session 2
234	Characteristics of atmospheric black carbon and other aerosol particles over the Arctic Ocean in early autumn 2016: Influence from biomass burning as assessed with observed microphysical properties and model simulations	Fumikazu Taketani	NO	PACES: Air Pollution in the Arctic: Climate, Environment, and Societies	Japan National Committee	In Person Session 2
237	Halogenated Greenhouse Gas Emissions from the Netherlands determined from Regional Atmospheric Measurements	Dominique Rust	YES			In Person Session 2
246	Seasonal and diurnal characteristics of wind in urban boundary layer	Yung-Chang Chen	NO			Remotely Session 2
248	An Arctic cyclone-induced bromine explosion event in Ny-Ålesund, Svalbard	Xin Yang	NO	CATCH: the Cryosphere and Atmospheric Chemistry		In Person Session 2
254	Seasonal comparison of summer and wintertime hydrogen chloride at an inland urban site	John Halfacre	NO			In Person Session 2
257	Vertical profiles of global tropospheric nitrogen dioxide (NO ₂) obtained via cloud-slicing TROPOMI partial columns.	Bex Horner	YES	AMIGO: Analysis of eMissions using Observations		In Person Session 2
258	The Spectroscopic Determination of ClNO ₂ via TILDAS	John Halfacre	NO			In Person Session 2
266	Models, In situ, and Remote sensing of Aerosols (MIRA): Formation of an International Working Group	Gregory Schuster	NO			In Person Session 2
268	Single particle chemical and physical composition of freshly emitted Saharan dust.	Agnesh Panta	YES			In Person Session 2
269	Assessing the tropospheric ozone budget in the tropics - UKCA contribution to the TOAR-II OPT project	Paul Griffiths	NO	TOAR: Tropospheric Ozone Assessment Report		In Person Session 2
270	Using low-cost sensors to measure NO ₂ and O ₃ pollution in urban street canyons	Seán Schmitz	YES			In Person Session 2
277	Calibrating a global chemistry transport model for tropospheric ozone	Oliver Wild	NO	TOAR: Tropospheric Ozone Assessment Report		In Person Session 2
278	Assimilation of Aerosol Observations from the Future Spaceborne Lidar Onboard the AOS Mission into the MOCAGE Chemistry-Transport Model	Flavien CORNUT	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality		In Person Session 2

281	Going beyond "shut-up and calculate" performance metrics: a low-cost story on pollution sensors	Sebastian Diez	NO	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	Americas Working Group	In Person	Session 2
285	Deep Semi-supervised Learning for Early Warnings of Dust Events: Evidences from The Middle East	Ron Sarafian	YES			Remotely	Session 2
286	Tropospheric ozone variability over the Mediterranean basin using SCIAMACHY and OMPS/NPP Limb-Nadir matching datasets.	Andrea Orfanoz-Cheuquelaf	YES			In Person	Session 2
294	NOX and CO2 emission estimation from high-resolution satellite pseudo-observations over the Kanto region of Japan using WRF model	Masahiro Yamaguchi	NO		Japan National Committee	Remotely	Session 2
305	Introduction to the AQ-WATCH project and its multi-model air quality forecast system	Cathy Li	NO	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality		In Person	Session 2
308	Weekly-based Top-Down Biogenic VOC fluxes over Europe Constrained by TROPOMI HCHO Column Densities	Glenn-Michael Oomen	YES	GEIA: Global Emissions Initiative		In Person	Session 2
310	A comparison of greenhouse gas emissions during COVID-19 lock downs in Manchester, UK	Han Yong	YES			In Person	Session 2
312	Is the 2020-2021 surge in global methane related to COVID-19 lockdown emission reductions?	David Stevenson	NO			In Person	Session 2
318	Evaluation of Modeled PM2.5 and NO2 with Ground-based and Satellite Measurements in the Eastern Africa Cities	Ezekiel Nyaga	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	ANGA: African Group on Atmospheric Sciences	In Person	Session 2
323	Tropical soil NO emissions: the view from TROPOMI NO2 column data	Jenny Stavrakou	YES	GEIA: Global Emissions Initiative, AMIGO: Analysis of eMissions using Observations		In Person	Session 2
328	Impact of Chlorine from Very Short-Lived Substances on Stratospheric Ozone	Zihao Wang	YES	AMIGO: Analysis of eMissions using Observations, ACAM: Atmospheric Chemistry and the Asian Monsoon, GEIA: Global Emissions Initiative		In Person	Session 2

337	Continuous monitoring of biogenic VOC fluxes over South America by inversion of TROPOMI HCHO columns, 2018-2021	Jenny Stavrakou	NO	AMIGO: Analysis of eMissions usinG Observations, GEIA: Global Emissions Initiative	Southern Hemisphere Working Group, Americas Working Group	In Person	Session 2
342	Insights from long-term measurements of biogenic volatile organic compounds using novel autonomous instrumentation	Valerio Ferracci	NO	AMIGO: Analysis of eMissions usinG Observations	Southern Hemisphere Working Group	In Person	Session 2
353	Assessment of emission corrections for the German national emission inventory by applying spatio-temporal inversion	Anne Caroline Lange	NO	AMIGO: Analysis of eMissions usinG Observations, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality		In Person	Session 2
356	Free tropospheric ozone trends observed by IASI and simulated by LMDZ-OR-INCA between 2008 and 2020 over Central East China, Europe and North America and COVID impact in spring 2020	Gaëlle Dufour	NO	TOAR: Tropospheric Ozone Assessment Report		Remotely	Session 2
358	Ground-based Lidar Ratio Retrievals for Improvement in Extinction Products in Version 5 of CALIOP	Jayanta Kar	NO			Remotely	Session 2
366	CALIPSO-SODA lidar ratio maps for CALIPSO aerosol types	David Painemal	NO			Remotely	Session 2
371	Investigating the importance of aqueous-phase chemistry in deliquescent aerosols using the global atmospheric chemistry model EMAC	Simon Rosanka	YES	TOAR: Tropospheric Ozone Assessment Report, ACAM: Atmospheric Chemistry and the Asian Monsoon		In Person	Session 2
372	Regional and Local Mineral Dust Activity over South America assessed through high-resolution satellite products	Nicolas Huneeus	NO	GEIA: Global Emissions Initiative	Americas Working Group	In Person	Session 2

373	The retrieval of atmospheric trace gases using passive solar remote sensing from satellite and aircraft platforms: progress and challenges	John Burrows FRS	NO	TOAR: Tropospheric Ozone Assessment Report, CATCH: the Cryosphere and Atmospheric Chemistry, GEIA: Global Emissions Initiative	Southern Hemisphere Working Group, China Working Group, Japan National Committee	In Person	Session 2
377	Performing ICON-ART simulations for atmospheric long-range transport of PFAS	Hiram Meza Landero	YES			In Person	Session 2
381	On the identification of an emerging anthropogenic combustion source of Carbon Monoxide at continental scales	Benjamin Gaubert	NO	AMIGO: Analysis of eMissions using Observations	ANGA: African Group on Atmospheric Sciences	Remotely	Session 2
387	Tropical tropospheric ozone distribution and trends	Audrey Gaudel	NO	TOAR: Tropospheric Ozone Assessment Report	ANGA: African Group on Atmospheric Sciences, Southern Hemisphere Working Group, Americas Working Group	Remotely	Session 2
393	Observations of the AOD-PM Relationship and its Variation on Urban Spatial Scales	Milan Patel	YES			Remotely	Session 2
397	Overview of the SPARC Reanalysis Intercomparison Project (S-RIP) and Phase 2 Plans	Jonathon Wright	NO	CCMi: Chemistry Climate Model Initiative	MANGO: Monsoon Asia and Oceania Networking Group	In Person	Session 2
399	Assessing data quality in long-term Canadian ozone sounding records	David Tarasick	NO	TOAR: Tropospheric Ozone Assessment Report		In Person	Session 2
400	Integrated Modeling and Remote Sensing of Air Quality in a Coastal Urban Environment: Challenges and Insights from the Boston Basin	Jeffrey Geddes	NO			In Person	Session 2
402	Multi-scale Modeling Over Australia for the 2019/2020 Extreme Wildfire Season	Rebecca Buchholz	NO	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	Southern Hemisphere Working Group	In Person	Session 2

406	Airborne eddy covariance measurements of Volatile Organic Compounds and NOx in Los Angeles for emission inventory validation	Eva Pfannerstill	YES	GEIA: Global Emissions Initiative, AMIGO: Analysis of eMissions using Observations	Remotely	Session 2
408	A significance of regional transports on urban air quality indicated by PM2.5 and O3 measurements at a 630m mountain top site in Seoul	CHANGDONG YUN	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	MANGO: Monsoon Asia and Oceania Networking Group	In Person Session 2
410	Long-term Variations of Climate Pollutants Observed in the Yellow Sea during 2015~2021	DOYOUNG KIM	YES	AMIGO: Analysis of eMissions using Observations	MANGO: Monsoon Asia and Oceania Networking Group	In Person Session 2
412	Interactive ammonia emissions from feed and food production within the IPSL coupled model: evaluation using satellite observations	Maureen Beaudor	YES	GEIA: Global Emissions Initiative, CCMi: Chemistry Climate Model Initiative		In Person Session 2
422	Impacts of improved sea-spray and biogenic aerosol representation on simulated aerosol, cloud and radiation biases over the Southern Ocean.	Imogen Wadlow	YES	CATCH: the Cryosphere and Atmospheric Chemistry	Southern Hemisphere Working Group	In Person Session 2
437	Deep Learning Based Convective Boundary Layer Determination for Aerosol and Wind Profiles observed by Coherent Doppler Lidar	Wei-Nai Chen	NO	ACAM: Atmospheric Chemistry and the Asian Monsoon, TOAR: Tropospheric Ozone Assessment Report		Remotely Session 2
441	Formation of HONO and its implication for nitrogen oxides chemistry in Urban Seoul	Junsu Gil	YES	TOAR: Tropospheric Ozone Assessment Report		In Person Session 2
445	National scale inversion of NOx emissions in France constrained by TROPOMI NO2 tropospheric columns	Robin Plauchu	YES	AMIGO: Analysis of eMissions using Observations		Remotely Session 2

454	Evaluation of different Aerosol Optical Depth products over the Northeastern region of Brazil based on land use characteristics	Gabriel Munchow	YES	CCMi: Chemistry Climate Model Initiative, GEIA: Global Emissions Initiative, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	Americas Working Group, Southern Hemisphere Working Group	In Person	Session 2
468	Machine Learning Modelling for Studying the Impact of the COVID-19 Lockdown on Air Pollution Levels in Air Quality Measurement Sites in Manchester, UK and Its Characteristics: Analysis of Meteorological Factors, Traffic Factors, and Historical Data	Tong Wu	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	China Working Group	In Person	Session 2
476	Multi-sensor estimates of global and regional Ozone generated with the Tropospheric Ozone and its Precursors from Earth System Sounding (TROPESS) framework	Edward Malina	NO	TOAR: Tropospheric Ozone Assessment Report	Americas Working Group	In Person	Session 2
477	First vertical profile measurements of NO ₂ , formaldehyde and aerosols over Central London	Robert Ryan	YES	TOAR: Tropospheric Ozone Assessment Report, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality, CCMi: Chemistry Climate Model Initiative		In Person	Session 2
232	A numerical study of impacts of marine-emitted halogens on atmospheric OH radicals in East Asia	Shidong Fan	YES			Remotely	Session 2:
245	A new emission inventory for NO _x and BC based on OMI observations with a simple top-down mass-conserving model method	Jian Liu	YES	ACAM: Atmospheric Chemistry and the Asian Monsoon	China Working Group	Remotely	Session 2:

430	Land use change and meteorology effect on atmospheric ammonia (NH ₃) as seen by IASI	Rimal Abeed	YES	ACAM: Atmospheric Chemistry and the Asian Monsoon, CCMi: Chemistry Climate Model Initiative	In Person	Session 2:
446	Investigating the impact of atmospheric biomass burning aerosols of the 2019 and 2020 burning seasons on the Metropolitan Area of São Paulo, Brazil with the EURAD-IM model on high-resolution and local measurements	Ediclê Duarte	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	Southern Hemisphere Working Group In Person	Session 2:
470	Coupling interactive fire with atmospheric composition and climate in the UK Earth System Model (UKESM)	João Teixeira	NO	CCMi: Chemistry Climate Model Initiative, GEIA: Global Emissions Initiative	In Person	Session 2:
5	Inhalable Particulate PAHs: Variability, Sources and Associated Health Risks in Delhi, India	Saurabh Sonwani	YES		In Person	Session 3
12	Investigating the impacts of cooking on indoor air quality	Marvin Shaw	NO		In Person	Session 3
16	Probing wintertime air pollution sources in the Indo-Gangetic Plain through 52 hydrocarbons measured rarely at Delhi & Mohali	Ashish Kumar	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality, ACAM: Atmospheric Chemistry and the Asian Monsoon	MANGO: Monsoon Asia and Oceania Networking Group In Person	Session 3
21	Characterization of intense winter air pollution from residential wood burning at an urban location: VOCs and aerosols.	Maximilien Desservetaz	YES		In Person	Session 3
22	Towards an Improved Air Quality in Nairobi City: Insights from the A system Approach to Air pollution studies	Tom Randa	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	ANGA: African Group on Atmospheric Sciences In Person	Session 3
27	Air pollution in cold-climate in the age of marginalizing contaminants and Covid-19	Parisa Ariya	NO		In Person	Session 3
35	Sensitivity of simulated Ice Nuclei Particle concentrations to soil mineralogy	Marios Chatziparascos	YES	CCMi: Chemistry Climate Model Initiative	In Person	Session 3

37	In situ qualitative and quantitative characterization of Biogenic Volatile Organic Compounds emissions under urban conditions	Carmen Kalalian	NO	GEIA: Global Emissions Initiative, AMIGO: Analysis of eMissions usinG Observations, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	In Person	Session 3
53	Establishment of Conceptual Schemas of Surface Synoptic Meteorological Situations Affecting Fine Particulate Pollution Across Eastern China in the Winter	Xuwei Hou	NO		In Person	Session 3
61	DEVELOPMENT OF ATMOSPHERIC EMISSIONS INVENTORY FOR BRAZIL'S REFINERY SECTOR WITH A BOTTOM-UP APPROACH	Camila Ibagué	YES	GEIA: Global Emissions Initiative, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality, CCMi: Chemistry Climate Model Initiative	Americas Working Group, Southern Hemisphere Working Group	In Person Session 3
62	Relationship between extreme rainfall and drought events and particulate matter concentration	Rafaela Ramos	NO	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality, GEIA: Global Emissions Initiative	Southern Hemisphere Working Group	Remotely Session 3
72	Fluorescent characteristics of historical African dust event: The Godzilla dust plume in June 2020	Bighnaraj Sarangi	NO	ACAM: Atmospheric Chemistry and the Asian Monsoon, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	Americas Working Group	Remotely Session 3

76	Understanding Atmospheric Properties of Pesticides Using Mass Spectrometry	Olivia Jackson	YES			In Person	Session 3
81	PM chemical characterization in a semi-arid region in central Mexico	Dara Salcedo	NO		Americas Working Group	Remotely	Session 3
98	African anthropogenic emission inventories for main GHGs and air pollutants from 2010 to 2018	Sekou KEITA	YES	GEIA: Global Emissions Initiative	ANGA: African Group on Atmospheric Sciences	In Person	Session 3
100	Controls over the intraurban variability in nitrogen dioxide pollution in Dakar, Senegal	Aissatou Faye	YES	AMIGO: Analysis of eMissions using Observations, CCMi: Chemistry Climate Model Initiative, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	ANGA: African Group on Atmospheric Sciences	In Person	Session 3
106	Identifying Wildfire Influence on Air Pollutant Levels in Rural and Urban Canada	Stephanie Schneider	YES			In Person	Session 3
108	Wildfires CO pathways in the global atmosphere – a climatological study	Nikos Daskalakis	NO	GEIA: Global Emissions Initiative, TOAR: Tropospheric Ozone Assessment Report		In Person	Session 3
122	Influences of Fireworks on Chemical Characterization and Optical Properties of Water-soluble Organic Aerosols in a Coastal City, China	Caiqing Yan	NO		China Working Group	Remotely	Session 3
123	Rapid Changes of Meteorology and Emission Increased the Contribution of Cross-regional Transport to the Ambient PM2.5 in the Pearl River Delta Region during the Polluted Seasons of 2015-2017	Kun Qu	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	China Working Group	In Person	Session 3
124	Lagrangian inversion of long-lived VCP tracers and forward chemical modeling in the southwestern United States	Bert Verreyken	YES	AMIGO: Analysis of eMissions using Observations		In Person	Session 3
135	A Street-level assessment of Greenhouse Gas emissions associated with Traffic Congestion in the City of Nairobi, Kenya	Cynthia Sitati	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	ANGA: African Group on Atmospheric Sciences	In Person	Session 3

139	Improving NMVOCs control strategies based on emission source characteristics and chemical reactivity in Spain	Kevin Oliveira	YES	GEIA: Global Emissions Initiative	In Person	Session 3
144	Mid-21st Century Health Burden of PM2.5 and O3 Pollution in Western Europe following Shared Socioeconomic Pathway Emissions Projections.	Connor Clayton	YES		In Person	Session 3
148	Development of an interactive atlas for air quality and impact applications using chemical reanalysis products	Thierno Doumbia	NO	AMIGO: Analysis of eMissions usinG Observations, GEIA: Global Emissions Initiative, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	ANGA: African Group on Atmospheric Sciences	In Person Session 3
149	Sensitive of spaceborne NO2 observations to coal mining and production over the Kuznetsk Basin	Dmitry Belikov	NO		Remotely	Session 3
150	Hydrochloric acid emission dominates inorganic aerosol formation from ammonia in the Indo-Gangetic Plain during winter	Pooja Pawar	YES	ACAM: Atmospheric Chemistry and the Asian Monsoon	MANGO: Monsoon Asia and Oceania Networking Group	Remotely Session 3
151	Impact of Covid-19 lockdown on air quality of Dhaka city: an in-depth investigation	Biswas Farhana	NO	ACAM: Atmospheric Chemistry and the Asian Monsoon, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	MANGO: Monsoon Asia and Oceania Networking Group	Remotely Session 3
152	Chemical characteristics of atmospheric particulates collected in low-income urban settlements in South Africa	Pieter van Zyl	NO		ANGA: African Group on Atmospheric Sciences, Southern Hemisphere Working Group	In Person Session 3

162	Achieving continuous measurement of Asian VOC emissions, including oxygenates, on Hateruma Island	Stephen Andrews	NO	ACAM: Atmospheric Chemistry and the Asian Monsoon, AMIGO: Analysis of eMissions usinG Observations, TOAR: Tropospheric Ozone Assessment Report, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality, GEIA: Global Emissions Initiative	MANGO: Monsoon Asia and Oceania Networking Group	In Person	Session 3
163	Sources of pollutant emissions affecting air quality in rural and urban areas in northern Africa.	Nabil Deabji	YES			In Person	Session 3
164	Global and European inventories of anthropogenic emissions of greenhouse gases and air pollutants for the Copernicus atmosphere monitoring service (CAMS)	Antonin Soulie	YES	GEIA: Global Emissions Initiative		In Person	Session 3
165	Towards an integrated anthropogenic emission inventory for China	Yijuan Zhang	YES	TOAR: Tropospheric Ozone Assessment Report, GEIA: Global Emissions Initiative, CCMi: Chemistry Climate Model Initiative	China Working Group	In Person	Session 3
171	Speciated VOC emissions from road transport	Samuel Cliff	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality, AMIGO: Analysis of eMissions usinG Observations		In Person	Session 3

174	Volatile Organic Compound (VOCs) in ambient air and its effect to the environment and human health	NOR SYAMIMI HAWARI	YES	ACAM: Atmospheric Chemistry and the Asian Monsoon, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	MANGO: Monsoon Asia and Oceania Networking Group	In Person	Session 3
176	Assessment of Reductions in Emission-driven Air Pollution during three largest Mega-events and Wuhan COVID-19 Lockdown of China	Haoxiang Xu	YES		China Working Group	Remotely	Session 3
181	Using multi-year datasets of daily scale satellite and in-situ flux observations to estimate NOx emissions on a provincial scale in energy rich northern China	Xiaolu Li	YES	CCMi: Chemistry Climate Model Initiative	China Working Group	Remotely	Session 3
182	Estimation and evaluation of biogenic volatile organic compound emissions from urban green space in China	Mingchen Ma	YES		China Working Group	Remotely	Session 3
183	The impact of extreme weather events and emissions on ozone in urban and rural areas under a warming climate	Yang Gao	NO		China Working Group	Remotely	Session 3
184	Replacing the greater evil: can legalizing decentralized waste burning in improved devices reduce waste burning emissions for improved air quality?	Pooja Chaudhary	YES	AMIGO: Analysis of eMissions using Observations, GEIA: Global Emissions Initiative	MANGO: Monsoon Asia and Oceania Networking Group	In Person	Session 3
185	Influence of COVID-19 Conditions on Ozone Chemistry of Delhi	Renu Masiwal	YES	TOAR: Tropospheric Ozone Assessment Report, AMIGO: Analysis of eMissions using Observations, ACAM: Atmospheric Chemistry and the Asian Monsoon, GEIA: Global Emissions Initiative	MANGO: Monsoon Asia and Oceania Networking Group	Remotely	Session 3
186	Source identification and health risk assessment of PM2.5-bound heavy metals in residential environment of Dhaka, Bangladesh	Samiha Nahian	YES	ACAM: Atmospheric Chemistry and the Asian Monsoon	MANGO: Monsoon Asia and Oceania Networking Group	In Person	Session 3

198	NO2 variation during the COVID-19 lockdown over Poland from TROPOMI and OMI - a comparison of the major Polish cities.	Emeka Ugboma	YES			Remotely	Session 3
211	Roles of regional transport and boundary layer mixing in aerosol pollution observed above Shanghai urban canopy over the COVID-19 lockdown period	Zhen Song	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	China Working Group	Remotely	Session 3
219	Aerosol layer height retrieval using Advanced Himawari Imager (AHI), and analysis of aerosol-related variables to improve the accuracy of tropospheric NO2 vertical column density from GOSAT-GW	Hyunkwang Lim	YES			In Person	Session 3
221	Algorithm to estimate aerosol concentration with image analysis techniques: SNAP-CI	Tomohiro Sato	NO			Remotely	Session 3
224	Analysis of the COVID-19 influence on an air quality in urban cities in Japan with multiple satellite and ground-based measurements	Tamaki Fujinawa	NO	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	Japan National Committee	Remotely	Session 3
225	Demystifying carbonaceous aerosols and CO over the Central Himalayas: Synergising about two decades of ground observations	Priyanka Srivastava	YES	ACAM: Atmospheric Chemistry and the Asian Monsoon, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality, CATCH: the Cryosphere and Atmospheric Chemistry, GEIA: Global Emissions Initiative, AMIGO: Analysis of eMissions using Observations	MANGO: Monsoon Asia and Oceania Networking Group	In Person	Session 3
226	Connecting aerosol composition to health effects	Yinon Rudich	NO	TOAR: Tropospheric Ozone Assessment Report		In Person	Session 3
228	Spatio-temporal of surface ozone (O3) variations at urban and suburban sites in Sarawak region of Malaysia	HARTINI MAHIDIN	YES	TOAR: Tropospheric Ozone Assessment Report	MANGO: Monsoon Asia and Oceania Networking Group	In Person	Session 3

230	The impact of environmentally friendly fireworks on the urban air quality and population exposure	Shidong Fan	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	China Working Group	Remotely	Session 3
236	Long-term observation of PM10, PM2.5, and black carbon aerosols at a high-altitude background station in the western North Pacific	Shantanu Kumar Pani	NO	ACAM: Atmospheric Chemistry and the Asian Monsoon		In Person	Session 3
239	Quantifying NOx source contributions to aerosol nitrate across the South African air pollution priority areas using nitrogen stable isotopes	Katye Altieri	NO		Southern Hemisphere Working Group	Remotely	Session 3
247	Trends in surface ozone and its precursors in Saxony, Germany	Yaru Wang	YES	TOAR: Tropospheric Ozone Assessment Report ACAM: Atmospheric Chemistry and the Asian Monsoon, AMIGO: Analysis of eMissions usinG Observations, CATCH: the Cryosphere and Atmospheric Chemistry, CCMi: Chemistry Climate Model Initiative, GEIA: Global Emissions Initiative, MAP-AQ: Monitoring, Analysis and		In Person	Session 3
252	Sources and processes of water-soluble and water-insoluble organic aerosol in cold season in Beijing, China	Zhiqiang Zhang	YES		China Working Group	Remotely	Session 3
253	Identification and quantification of volatile organic compounds at a regionally representative background site in South Africa	Kerneels Jaars	NO		Southern Hemisphere Working Group, ANGA: African Group on Atmospheric Sciences	In Person	Session 3

256	Variabilities in surface ozone at different sites in the Central Himalayas: Assessing the role of NMHCs	Mahendar Rajwar	YES	ACAM: Atmospheric Chemistry and the Asian Monsoon, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality, TOAR: Tropospheric Ozone Assessment Report	MANGO: Monsoon Asia and Oceania Networking Group	In Person	Session 3
259	Emissions of particulate associated - major and trace elements from residential biofuels burning in rural regions of Western India	Sakshi Ahlawat	YES	AMIGO: Analysis of eMissions usinG Observations		In Person	Session 3
260	Speciated Fingerprints of Plastics: Applications and Implications on Urban Air Quality	Xiaorui Wu	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	MANGO: Monsoon Asia and Oceania Networking Group	In Person	Session 3
272	Measurements of HCHO, OH, HO ₂ , and OH reactivity at a UK urban site	Samuel Seldon	YES			In Person	Session 3
274	Assessment of PM _{2.5} characteristics in old Delhi region, India: Carbonaceous species, FTIR profiling, morphological and elemental analysis	Shobhna Shankar	YES	AMIGO: Analysis of eMissions usinG Observations, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality		In Person	Session 3
279	Global Emissions InitiAtive (GEIA) – IGAC Activity	Cathy Liousse	NO	GEIA: Global Emissions Initiative		In Person	Session 3

283	Long-term trends of Total Number Count and Black Carbon at Rural, Urban Background, and Urban Traffic Sites in the UK	Seny Damayanti	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality, AMIGO: Analysis of eMissions using Observations	Remotely	Session 3
287	VOCs changes under COVID-19 lockdowns in Europe	Alexandre Caseiro	NO	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	Remotely	Session 3
288	APExpose: an european air pollution exposure dataset based on modelling, satellite and in-situ measurements and its application to COVID-19 hospitalizations	Alexandre Caseiro	NO	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	Remotely	Session 3
290	Investigation of major emission sources of non-methane hydrocarbons and their role in ozone formation in New Delhi, India	Nidhi Tripathi	YES		In Person	Session 3
298	Stable isotope constraints on atmospheric nitrate sources and formation pathways in an urban polar area: preliminary results of the winter 2022 CASPA/ALPACA campaign	Sarah Albertin	YES	PACES: Air Pollution in the Arctic: Climate, Environment, and Societies	In Person	Session 3
303	Health impacts of the Saddleworth Moor fire 2018: the importance of model resolution	Benjamin Drummond	NO	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	In Person	Session 3
304	Variability of aerosol sources and atmospheric deposition processes to the area of Brijuni National Park, Croatia	Ana Cvitešić Kušan	YES		In Person	Session 3
309	Impact of a plus 2°C climate on biogenic emissions and air quality	Safae Oumami	YES		In Person	Session 3
314	Monitoring the atmospheric composition and air quality impacts of the Cumbre Vieja volcanic eruption in 2021	Mark Parrington	NO	GEIA: Global Emissions Initiative, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	Americas Working Group Remotely	Session 3

316	Investigating air quality impacts from unconventional oil and gas development in surrounding communities	I-Ting Ku	YES		Americas Working Group	Remotely	Session 3
317	Seasonal variations and compositions of size-fractioned urban atmospheric particulate matter in Kuala Lumpur, Malaysia	Mohd Talib Latif	NO	ACAM: Atmospheric Chemistry and the Asian Monsoon	MANGO: Monsoon Asia and Oceania Networking Group	Remotely	Session 3
321	Simulations of Air Quality in South America: effects of boundary conditions and model intercomparison.	Pablo Lichtig	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality, AMIGO: Analysis of eMissions using Observations, TOAR: Tropospheric Ozone Assessment Report	Americas Working Group, Southern Hemisphere Working Group	In Person	Session 3
327	Retrieving CALIOP-based particulate matter concentrations for the Models, In situ, and Remote sensing of Aerosols (MIRA) Project	Travis Toth	NO	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality		In Person	Session 3
331	Improving representation of population exposure to urban air pollution by the addition of microenvironmental low-costs sensors to existing fixed site monitoring network	Tilman Hohenerberger	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality		Remotely	Session 3
332	Influence of airborne PM2.5 on the respiratory disease incidence in Mendoza, Argentina	Maria Tames	YES		Southern Hemisphere Working Group	In Person	Session 3
344	A Global Gridded Emission Inventory for PFOA and PFOS, 1950 to 2020	Pascal Simon	YES			In Person	Session 3
349	Health burden of air pollution from the oil and gas lifecycle in Texas	Karn Vohra	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality		In Person	Session 3
351	Characteristics and Sources of Delhi aerosol-an overview based on filter-based observations	Deepchandra Srivastava	NO	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	MANGO: Monsoon Asia and Oceania Networking Group	In Person	Session 3
354	Changes in Global Urban Air Quality due to Large Scale Disruptions of Activity	Will Drysdale	YES			In Person	Session 3

362	Atmospheric organic pollutants detected with high temporal resolution during 2020 (COVID-19 period)	Alberto Garcia-Ibarra	YES	AMIGO: Analysis of eMissions usinG Observations	Americas Working Group	In Person	Session 3
363	Organic molecular markers hourly measured in PM2.5 at Southwest of Mexico City	Enrique Hernández-López	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	Americas Working Group	Remotely	Session 3
378	Seasonal Variation Analysis of PM2.5 over Accra, Ghana	Victoria Owusu-Tawiah	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	ANGA: African Group on Atmospheric Sciences	In Person	Session 3
385	Targeting double disproportionality in industrial air emissions in Canada: A strategy to reduce environmental inequities?	Rivkah Gardner-Frolick	YES		Americas Working Group	In Person	Session 3
391	A high spatial resolution (~2km) map of NOx emissions in the Bay Area	Yishu Zhu	YES	AMIGO: Analysis of eMissions usinG Observations, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality		Remotely	Session 3
394	Investigating Neighborhood-Scale Spatial Variation in Urban Tropospheric Ozone	Anna Winter	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality		Remotely	Session 3
398	ORGANIC ACIDS IN BIOMASS-BURNING AND NON-BIOMASS-BURNING EPISODES	Y. Margarita Martínez	NO	PACES: Air Pollution in the Arctic: Climate, Environment, and Societies	Americas Working Group	Remotely	Session 3
407	Flaring combustion efficiencies and NOx emission ratios from oil and gas facilities in the North Sea	Jacob Shaw	NO	AMIGO: Analysis of eMissions usinG Observations		In Person	Session 3

423	Future PM2.5-related premature mortality	Ulas Im	NO	CCMi: Chemistry Climate Model Initiative, PACES: Air Pollution in the Arctic: Climate, Environment, and Societies, TOAR: Tropospheric Ozone Assessment Report		Remotely	Session 3
425	Variations of Chemical Composition and Sources of PM2.5 in Beijing Based on Hourly Continuous Online Measurements from 2016 to 2019	Mei Zheng	NO		China Working Group	Remotely	Session 3
436	Effects of ambient air pollution exposure on IVF (in vitro fertilization) outcomes.	Haoze Song	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality		In Person	Session 3
448	Mitigating COVID transmission in place of worship: Characterizing CO2 concentration in California churches	Paloma Ledesma	NO	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	Americas Working Group	In Person	Session 3
451	Estimating changes in ozone levels due to COVID-19 lockdown measures based on a business-as-usual prediction scenario using a machine learning approach.	Melisa Diaz Resquin	YES	AMIGO: Analysis of eMIssions usinG Observations, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	Americas Working Group	Remotely	Session 3

456	Characterization of submicron aerosol composition and size near ship plumes, within a Sulphur Emission Control Area (SECA), and in international waters.	Navaneeth Thamban	YES	ACAM: Atmospheric Chemistry and the Asian Monsoon, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality, PACES: Air Pollution in the Arctic: Climate, Environment, and Societies, TOAR: Tropospheric Ozone Assessment Report	MANGO: Monsoon Asia and Oceania Networking Group, ANGA: African Group on Atmospheric Sciences, Americas Working Group	In Person	Session 3
459	City and site-type variations of two PM2.5 oxidative potential measures in five Colombian cities	Nestor Rojas	NO		Americas Working Group	In Person	Session 3
463	Identifying sources of fine mode aerosols during the pre-monsoon period in Brahmaputra Valley	Adnan Qadri	YES	ACAM: Atmospheric Chemistry and the Asian Monsoon, AMIGO: Analysis of eMissions using Observations	MANGO: Monsoon Asia and Oceania Networking Group	In Person	Session 3
469	Sea breeze role on air quality in the Red Sea coastline cities: Jeddah as a case study	Khalid Alzahrani	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality		In Person	Session 3
478	Assessment of particle pollution events in a large megacity in the Southern Hemisphere	Guilherme Pereira	NO	GEIA: Global Emissions Initiative	Americas Working Group, Southern Hemisphere Working Group	Remotely	Session 3
251	Aerosol remote sensing uncertainty estimation in Latin American cities	Josefina Urquiza	YES			In Person	Session 3:
282	Assessing Black Carbon and Particulate Matter from mobile measurements in Quintero, Chile	Zoe Fleming	NO	TOAR: Tropospheric Ozone Assessment Report	Americas Working Group	In Person	Session 3:

433	Physico-chemical Characterization of Atmospheric Particles During Dust Storm in the Vicinity of Thar Desert	Mamta Devi	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	MANGO: Monsoon Asia and Oceania Networking Group	Remotely	Session 3:
434	Particulate Matter Removal Efficiency of Potted <i>Epipremnum aureum</i> : A Study in Indoor Environment	Supreet Kaur	YES	ACAM: Atmospheric Chemistry and the Asian Monsoon, AMIGO: Analysis of eMissions using Observations, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality, GEIA: Global Emissions Initiative	MANGO: Monsoon Asia and Oceania Networking Group	Remotely	Session 3:
435	Temporal Variation of Elemental Composition of PM Fine Mode Fraction over Delhi NCR	Kartika Pandey	YES	ACAM: Atmospheric Chemistry and the Asian Monsoon, AMIGO: Analysis of eMissions using Observations, GEIA: Global Emissions Initiative	MANGO: Monsoon Asia and Oceania Networking Group	Remotely	Session 3:
8	Comparing the impacts of isoprene and iodine emissions on tropospheric photochemistry	Ryan Pound	YES			In Person	Session 4
23	Ozone precursors And Boundary Layer Meteorology Before and During a Severe Ozone Episode in Mexico City	Tanzina Akther	YES			In Person	Session 4
28	Anthropogenic and biological Nano-and micro-particles ice nuclei: Impact on interfacial processes	Parisa Ariya	NO			In Person	Session 4
43	A day in the life of a Scribbly Gum Tree - COALA-2020 campaign	Clare Murphy (Paton-Walsh)	NO	GEIA: Global Emissions Initiative	Southern Hemisphere Working Group	In Person	Session 4

50	Impacts of changes in land-use, climate, and emissions on global air quality by 2050	Hemraj Bhattarai	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality		In Person	Session 4
60	The Hygroscopicity of Functionalized Insoluble Aerosol Surfaces	Chun-Ning Mao	YES			Remotely	Session 4
70	Assessing the impacts of future changes in air pollution on human health and crop productivity in China for 2030.	Lisa Emberson	NO	TOAR: Tropospheric Ozone Assessment Report, GEIA: Global Emissions Initiative	China Working Group	In Person	Session 4
74	Performance analysis of air pollution control device WAYU at a semi urban site in Agra, India.	Surat Dewan	YES	ACAM: Atmospheric Chemistry and the Asian Monsoon	MANGO: Monsoon Asia and Oceania Networking Group	Remotely	Session 4
75	A co-benefit analysis of the Climate and Air Quality impact from changes in near-term climate forcers in future Climate, Land-use and air pollutant emission mitigation scenarios	Steven Turnock	NO	CCMi: Chemistry Climate Model Initiative		In Person	Session 4
86	Ozone deposition to the Arctic sea ice: Observations and 1D modelling during the 1-year MOSAiC expedition	Johannes Barten	YES	CATCH: the Cryosphere and Atmospheric Chemistry, PACES: Air Pollution in the Arctic: Climate, Environment, and Societies, TOAR: Tropospheric Ozone Assessment Report		Remotely	Session 4
88	Applying an integrated modelling approach for urban air quality management in South Africa	Rebecca Garland	NO	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	ANGA: African Group on Atmospheric Sciences	In Person	Session 4
91	Links between oceanic ozone uptake and biogenic organic matter found in the sea surface microlayer	Katherine Weddell	YES	TOAR: Tropospheric Ozone Assessment Report		In Person	Session 4
153	Total ozone reactivity measurements from a Norway spruce in late summer	Steven Job Thomas	YES			In Person	Session 4

154	Characteristics of soil NO emissions from a UK suburban greenspace and SE Australian Eucalyptus forest	Hyunjin An	YES	AMIGO: Analysis of eMissions using Observations, GEIA: Global Emissions Initiative	In Person	Session 4
161	Optical properties, chemical compositions and potential sources of Methanol-soluble BrC in an urban area of northern Taiwan.	Yu-Chieh Ting	YES	ACAM: Atmospheric Chemistry and the Asian Monsoon	China Working Group	In Person Session 4
172	Prediction of aerosol pH in the marine boundary layer of the Southern Ocean using ISORROPIA-II model.	Sive Xokashe	YES	CATCH: the Cryosphere and Atmospheric Chemistry	Southern Hemisphere Working Group	In Person Session 4
222	Total VOC reactivity and its relationship with Organic Aerosols in an Urban Region in East Asia	Jonalyn Madriaga	YES	ACAM: Atmospheric Chemistry and the Asian Monsoon, AMIGO: Analysis of eMissions using Observations, CATCH: the Cryosphere and Atmospheric Chemistry, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	MANGO: Monsoon Asia and Oceania Networking Group	In Person Session 4
240	Interfacial photochemistry of marine diatom lipids: Abiotic production of volatile organic compounds and new particle formation	Abra Penezic	NO			In Person Session 4
273	Recent multiphase and heterogenous chemistry modeling with new CAPRAM mechanism modules	Andreas Tilgner	NO			Remotely Session 4
280	The Role of Water Vapor on Photo-bleaching of Organic Aerosol Particles	Rachel O'Brien	NO			Remotely Session 4
293	Ozone flux at the sea surface: eddy covariance observations and biogeochemical controls	David Loades	YES	TOAR: Tropospheric Ozone Assessment Report		In Person Session 4
302	Iodide oxidation at the gas air-water interface in cold environments	Antoine Roose	YES	CATCH: the Cryosphere and Atmospheric Chemistry		In Person Session 4

307	Seasonal measurements of hydroperoxy methylthioformate (HPMTF) over the North Atlantic Ocean	Thomas Bannan	NO			In Person	Session 4
311	Hygroscopic growth of aerosol particles in the Amazon	Tailine dos Santos	YES			In Person	Session 4
319	Airborne observations over the North Atlantic Ocean reveal the first gas-phase measurements of urea in the atmosphere	Emily Matthews	YES			In Person	Session 4
339	The influence of soil moisture on soil NOx emissions: sensitivity to inputs and a more robust model parameterization	Daniel Huber	YES	AMIGO: Analysis of eMissions using Observations		In Person	Session 4
348	Wintertime Atmospheric Chlorine Chemistry on Aerosol Particles and Snow	Kerri Pratt	NO	CATCH: the Cryosphere and Atmospheric Chemistry		In Person	Session 4
355	Implementation of HONO into the chemistry-climate model CHASER (V4.0) and its roles to the tropospheric chemistry	Phuc Ha	YES	CCMi: Chemistry Climate Model Initiative	Japan National Committee	Remotely	Session 4
370	Multiphase photodegradation of 1-nitropyrene in the atmospheric relevant conditions - a new approach to studying solid-water interactions	Ivana Drventić	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality, PACES: Air Pollution in the Arctic: Climate, Environment, and Societies	Southern Hemisphere Working Group	In Person	Session 4
389	How does ground-level ozone affect the growth and quality of lettuce crops?	Isla Young	YES	TOAR: Tropospheric Ozone Assessment Report		In Person	Session 4
464	Improving our understanding of upper tropospheric NOx using GEOS-Chem and TROPOMI cloud-sliced observations	Robert Ryan	NO	TOAR: Tropospheric Ozone Assessment Report		In Person	Session 4
67	Daily cycle of sea spray aerosols emission	J.Michel Flores	NO			In Person	Session 4:
242	Phthalate esters in PM2.5 aerosols in six urban areas of Taiwan	Tse-Tsung Ho	YES	PACES: Air Pollution in the Arctic: Climate, Environment, and Societies		Remotely	Session 4:

250	Summertime measurements of atmospheric nitrous acid gas above snow at Halley VI Research Station, coastal Antarctica	Amelia Bond	YES	CATCH: the Cryosphere and Atmospheric Chemistry		In Person	Session 4:
140	RADICAL: Developing an electronic sensor for detecting short-lived atmospheric radicals and other gases	Adrien Gandolfo	YES			In Person	Session 5
202	Climate Action at Regional Scales: Lessons for the Chicago Region	Ashish Sharma	NO		Americas Working Group	In Person	Session 5
271	Introducing NOAA's Earth's Radiation Budget (ERB) Program	Victoria Breeze	NO			In Person	Session 5
296	Spatially Resolved Reduced Order Impact Modeling for Black Carbon to Inform Policy Scenarios	Lyssa Freese	YES	CCMi: Chemistry Climate Model Initiative	China Working Group	In Person	Session 5
297	NOAA's Next-Generation Space-based Capabilities for Observing Atmospheric Composition	Gregory Frost	NO	AMIGO: Analysis of eMissions using Observations, GEIA: Global Emissions Initiative, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality, TOAR: Tropospheric Ozone Assessment Report		In Person	Session 5
343	Attribution of Tropospheric Ozone to Sources of NOx and VOC Precursor Emissions in a Global Chemistry-Climate Model (CESM1.2.2-CAM4-Chem) for the 2000-2018 Period	Aditya Nalam	YES	CCMi: Chemistry Climate Model Initiative		In Person	Session 5
361	Sensitivity of Climate and Composition to Concomitant Idealised Future Changes in Methane and Hydrogen Emissions	Glen Chua	YES	CCMi: Chemistry Climate Model Initiative, TOAR: Tropospheric Ozone Assessment Report		In Person	Session 5
364	Utilizing satellite data to advance the understanding and modeling capability of land-atmospheric chemistry interactions and air quality	Min Huang	NO			Remotely	Session 5

404	The need for comprehensive understanding of secondary aerosol formation mechanisms in the development of PM2.5 reduction policy in Jakarta, Indonesia	Drijejana Drijejana	NO	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	Southern Hemisphere Working Group	Remotely	Session 5
383	Non-CO2 Forcers and their Climate, Weather, Air Quality and Health Impacts – New Project FOCI	Tomáš Halenka	NO	CCMi: Chemistry Climate Model Initiative		In Person	Session 5: