

Submission Id	Title	Presenting	Early Career Scientist	IGAC Activities	IGAC Regional Working Groups	In Person or Remote?	Program code
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 Poster
39	A highly sensitive laser-induced fluorescence system for the detection of trace level sulfur dioxide	Loren Temple	YES			In Person	Session 1 Poster
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 Poster
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 Poster
137	New Particle Formation Events at a Unique "Dragon Eye" Marine Lake Area in Rogoznica, Croatia	Kristijan Vidovic	YES			In Person	Session 1 Poster
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 Poster
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 Poster
169	NO ₃ radical suppresses new particle formation from biogenic precursor gases	DANDAN LI	NO			In Person	Session 1 Poster
205	Cl-CRM - Determining chlorine reactivity in the troposphere	Jordan Stewart	YES			In Person	Session 1 Poster
206	Applying known chemical kinetics data to model atmospheres of extrasolar planets	Maria Zamyatina	YES			In Person	Session 1 Poster
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 Poster
209	Studies for Atmospheric Mercury Using Stable Isotope Ratio Measurement	Satoshi Irei	NO			Remotely	Session 1 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
409	Tropospheric Bimolecular Sinks of Criegee Intermediates Derived from Hydrofluoroolefins	Nathan Watson	YES			In Person	Session 1 Poster
411	Mathematically Representing Spatial Representation Errors in Satellite Retrievals	Amir Sourì	NO	AMIGO: Analysis of eMissions using Observations		Remotely	Session 1 Poster
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 Poster
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 Poster
452	Effects of photochemical aging on biomass burning aerosol properties: from field and laboratory observations	Huihui Wu	YES			In Person	Session 1 Poster
262	Insights into the organic complexation of Fe in like-Fenton reactions and implications on atmospheric oxidation cycles	Daniele Scheres Firak	YES			Remotely	Session 1: Poster

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 Poster
6	Modelling and measuring VOCs concentrations in East Asia	Adedayo Adedeji	YES			In Person	Session 2 Poster
13	Regional emissions of nitrous oxide (N ₂ O) estimated by inverse modelling of atmospheric observations	Prabir Patra	NO			In Person	Session 2 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
45	Isoprene-consuming production and loss pathways of tropospheric ozone	Ralph Lehmann	NO	TOAR: Tropospheric Ozone Assessment Report		In Person	Session 2 Poster
46	An update on tropospheric ozone trends above western North America	Kai-Lan Chang	NO	TOAR: Tropospheric Ozone Assessment Report		In Person	Session 2 Poster
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 Poster
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 Poster
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 Poster
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 Poster
64	TOAR-II Chemical Reanalysis Focus Working Group	Kazuyuki Miyazaki	NO	TOAR: Tropospheric Ozone Assessment Report		In Person	Session 2 Poster
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 Poster
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 Poster
79	Hydrogen: the Fuel of the Future? Modelling its Environmental Impacts	Hannah Bryant	YES			In Person	Session 2 Poster
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 Poster
82	Regional-scale modeling in a global model with MUSICAv0: MULti-Scale Infrastructure for Chemistry and Aerosols	Louisa Emmons	NO	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality		In Person	Session 2 Poster

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 Poster
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 Poster
93	Climate impacts of a historical shift in aerosol precursor emissions	Vichawan Sakulsupich	YES	CCMi: Chemistry Climate Model Initiative		Remotely	Session 2 Poster
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 Poster
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 Poster
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 Poster
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 Poster
110	Consequences of insufficient production of temporary NOx 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: Monsoon Asia and Oceania Networking Group	In Person	Session 2 Poster
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 Poster
115	The interaction of weather and air pollution extremes in warmer climate	Tamara Emmerichs	NO	TOAR: Tropospheric Ozone Assessment Report		In Person	Session 2 Poster
118	The AMIGO (Analysis of eMissions using Observations) project of IGAC	Claire Granier	NO	AMIGO: Analysis of eMissions using Observations		In Person	Session 2 Poster
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 Poster
126	Impacts of Aromatic Chemistry on the Global Atmosphere	Stephen MacFarlane	YES			In Person	Session 2 Poster
127	The global COVID-19 lockdown impacts on secondary inorganic aerosols	Takashi Sekiya	NO		Japan National Committee	In Person	Session 2 Poster
130	Introducing new lightning schemes into the CHASER (MIROC) chemistry climate model	Yanfeng He	YES	CCMi: Chemistry Climate Model Initiative		Remotely	Session 2 Poster
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 Poster
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 Poster
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 Poster

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 Poster
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 Poster
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 Poster
167	Measurements and modelling of OH, HO ₂ , RO ₂ and OH reactivity on the Tibetan Plateau	Dwayne Heard	NO			Remotely	Session 2 Poster
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 Poster
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 Poster
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 Poster
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 Poster
180	Land cover change impacts on tropospheric composition: from the satellite record to modelling.	Emma Sands	YES			In Person	Session 2 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
201	Seasonal and regional characteristics of carbon monoxide anomalies as seen by IAGOS between 2002 and 2019:	Thibaut Lebourgeois	YES			In Person	Session 2 Poster
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 Poster

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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
237	Halogenated Greenhouse Gas Emissions from the Netherlands determined from Regional Atmospheric Measurements	Dominique Rust	YES			In Person	Session 2 Poster
246	Seasonal and diurnal characteristics of wind in urban boundary layer	Yung-Chang Chen	NO			In Person	Session 2 Poster
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 Poster
254	Seasonal comparison of summer and wintertime hydrogen chloride at an inland urban site	John Halfacre	NO			In Person	Session 2 Poster
257	Vertical profiles of global tropospheric nitrogen dioxide (NO2) obtained via cloud-slicing TROPOMI partial columns.	Bex Horner	YES	AMIGO: Analysis of eMissions using Observations		In Person	Session 2 Poster
258	The Spectroscopic Determination of ClNO2 via TILDAS Models, In situ, and Remote sensing of Aerosols (MIRA): Formation of an International Working Group	John Halfacre	NO			In Person	Session 2 Poster
266	Single particle chemical and physical composition of freshly emitted Saharan dust.	Gregory Schuster	NO			In Person	Session 2 Poster
268	Single particle chemical and physical composition of freshly emitted Saharan dust.	Agnesh Panta	YES			In Person	Session 2 Poster
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 Poster
270	Using low-cost sensors to measure NO2 and O3 pollution in urban street canyons	Seán Schmitz	YES			In Person	Session 2 Poster
277	Calibrating a global chemistry transport model for tropospheric ozone	Oliver Wild	NO	TOAR: Tropospheric Ozone Assessment Report		In Person	Session 2 Poster
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 Poster
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 Poster
285	Deep Semi-supervised Learning for Early Warnings of Dust Events: Evidences from The Middle East	Ron Sarafian	YES			Remotely	Session 2 Poster
286	Tropospheric ozone variability over the Mediterranean basin using SCIAMACHY and OMPS/NPP Limb-Nadir matching datasets.	Andrea Orfanoz-Chequelaf	YES			In Person	Session 2 Poster
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 Poster
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 Poster
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 Poster
310	A comparison of greenhouse gas emissions during COVID-19 lock downs in Manchester, UK	Han Yong	YES			In Person	Session 2 Poster
312	Is the 2020-2021 surge in global methane related to COVID-19 lockdown emission reductions?	David Stevenson	NO			In Person	Session 2 Poster
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 Poster

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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
358	Ground-based Lidar Ratio Retrievals for Improvement in Extinction Products in Version 5 of CALIOP	Jayanta Kar	NO			Remotely	Session 2 Poster
366	CALIPSO-SODA lidar ratio maps for CALIPSO aerosol types	David Painemal	NO			Remotely	Session 2 Poster
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 Poster
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 Poster
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 Poster
377	Performing ICON-ART simulations for atmospheric long-range transport of PFAS	Hiram Meza Landero	YES			In Person	Session 2 Poster
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 Poster
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 Poster
393	Observations of the AOD-PM Relationship and its Variation on Urban Spatial Scales	Milan Patel	YES			Remotely	Session 2 Poster
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 Poster

399	Assessing data quality in long-term Canadian ozone sounding records	David Tarasick	NO	TOAR: Tropospheric Ozone Assessment Report		In Person	Session 2 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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	Remotely	Session 2 Poster
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 Poster
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 Poster
477	First vertical profile measurements of NO2, 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 Poster
208	Air pollution simulation in South America using the Multi-Scale Infrastructure for Chemistry and Aerosols (MUSICA) model	Sergio Ibarra-Espinosa	NO	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	Southern Hemisphere Working Group	Remotely	Session 2: Poster
232	A numerical study of impacts of marine-emitted halogens on atmospheric OH radicals in East Asia	Shidong Fan	YES			Remotely	Session 2: Poster
245	A new emission inventory for NOx 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: Poster

357	Assessment of tropospheric NO ₂ over South and East Asia in global climate-composition model and Satellite data	Alok Pandey	NO	CCMi: Chemistry Climate Model Initiative, ACAM: Atmospheric Chemistry and the Asian Monsoon	MANGO: Monsoon Asia and Oceania Networking Group	In Person	Session 2: Poster
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: Poster
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	Ediclé Duarte	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	Southern Hemisphere Working Group	In Person	Session 2: Poster
5	Inhalable Particulate PAHs: Variability, Sources and Associated Health Risks in Delhi, India	Saurabh Sonwani	YES			In Person	Session 3 Poster
12	Investigating the impacts of cooking on indoor air quality	Marvin Shaw	NO			In Person	Session 3 Poster
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 Poster
21	Characterization of intense winter air pollution from residential wood burning at an urban location: VOCs and aerosols.	Maximilien Desservettaz	YES			In Person	Session 3 Poster
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 Poster
27	Air pollution in cold-climate in the age of margining contaminants and Covid-19	Parisa Ariya	NO			In Person	Session 3 Poster
35	Sensitivity of simulated Ice Nuclei Particle concentrations to soil mineralogy	Marios Chatziparaschos	YES	CCMi: Chemistry Climate Model Initiative		In Person	Session 3 Poster
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 Poster
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 Poster
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	Remotely	Session 3 Poster
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 Poster
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 Poster
76	Understanding Atmospheric Properties of Pesticides Using Mass Spectrometry	Olivia Jackson	YES			In Person	Session 3 Poster
81	PM chemical characterization in a semi-arid region in central Mexico	Dara Salcedo	NO		Americas Working Group	Remotely	Session 3 Poster

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 Poster
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 Poster
106	Identifying Wildfire Influence on Air Pollutant Levels in Rural and Urban Canada	Stephanie Schneider	YES			In Person	Session 3 Poster
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 Poster
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 Poster
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	Remotely	Session 3 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
149	Sensitive of spaceborne NO2 observations to coal mining and production over the Kuznetsk Basin	Dmitry Belikov	NO			Remotely	Session 3 Poster
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	In Person	Session 3 Poster
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 Poster
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 Poster

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 Poster
163	Sources of pollutant emissions affecting air quality in rural and urban areas in northern Africa.	Nabil Deabji	YES			In Person	Session 3 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster

221	Algorithm to estimate aerosol concentration with image analysis techniques: SNAP-CII	Tomohiro Sato	NO			Remotely	Session 3 Poster
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 Poster
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 Poster
226	Connecting aerosol composition to health effects	Yinon Rudich	NO	TOAR: Tropospheric Ozone Assessment Report		In Person	Session 3 Poster
228	Spatio-temporal of surface ozone (O ₃) 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 Poster
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 Poster
236	Long-term observation of PM ₁₀ , PM _{2.5} , 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 Poster
239	Quantifying NO _x 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 Poster
247	Trends in surface ozone and its precursors in Saxony, Germany	Yaru Wang	YES	TOAR: Tropospheric Ozone Assessment Report		In Person	Session 3 Poster
252	Sources and processes of water-soluble and water-insoluble organic aerosol in cold season in Beijing, China	Zhiqiang Zhang	YES	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 Prediction of Air Quality, PACES: Air Pollution in the Arctic: Climate, Environment, and Societies, TOAR: Tropospheric Ozone Assessment Report	China Working Group	Remotely	Session 3 Poster
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 Poster

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 Poster
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 Poster
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 Poster
272	Measurements of HCHO, OH, HO ₂ , and OH reactivity at a UK urban site	Samuel Seldon	YES			In Person	Session 3 Poster
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 Poster
279	Global Emissions Initiative (GEIA) – IGAC Activity	Cathy Liousse	NO	GEIA: Global Emissions Initiative		In Person	Session 3 Poster
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 Poster
287	VOCs changes under COVID-19 lockdowns in Europe	Alexandre Caseiro	NO	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality		Remotely	Session 3 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
309	Impact of a plus 2°C climate on biogenic emissions and air quality	Safae Oumami	YES			In Person	Session 3 Poster
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 Poster
316	Investigating air quality impacts from unconventional oil and gas development in surrounding communities	I-Ting Ku	YES		Americas Working Group	Remotely	Session 3 Poster
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 Poster
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 Poster

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 Poster
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 Hohenberger	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality		Remotely	Session 3 Poster
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 Poster
344	A Global Gridded Emission Inventory for PFOA and PFOS, 1950 to 2020	Pascal Simon	YES			In Person	Session 3 Poster
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 Poster
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 Poster
354	Changes in Global Urban Air Quality due to Large Scale Disruptions of Activity	Will Drysdale	YES			In Person	Session 3 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster

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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
31	The mutual interactions among ozone, fine particulate matter, and carbon dioxide on summer monsoon climate in East Asia	Danyang Ma	YES	ACAM: Atmospheric Chemistry and the Asian Monsoon, MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	China Working Group	Remotely	Session 3: Poster
105	Black carbon emissions from traffic contribute substantially to air pollution in Nairobi, Kenya	Leonard Kirago	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	ANGA: African Group on Atmospheric Sciences	In Person	Session 3: Poster
204	Modelling aerosol-boundary layer interactions over Northern India- Case study of 2016 haze episode using WRF-Chem	Prerita Agarwal	YES	ACAM: Atmospheric Chemistry and the Asian Monsoon	Monsoon Asia and Oceania Networking Group	In Person	Session 3: Poster
251	Aerosol remote sensing uncertainty estimation in Latin American cities	Josefina Urquiza	YES			In Person	Session 3: Poster
261	Monitoring of hygroscopicity of PM2.5 using low-cost sensors at Chandigarh in North India: Effect of crop residue burning	Tomoki Nakayama	NO			Remotely	Session 3: Poster
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: Poster
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: Poster
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: Poster

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: Poster
450	Sources of Carbonaceous Aerosols in Douala City, Cameroon	Samuel Mwaniki Gaita	NO	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	ANGA: African Group on Atmospheric Sciences	In Person	Session 3: Poster
8	Comparing the impacts of isoprene and iodine emissions on tropospheric photochemistry	Ryan Pound	YES			In Person	Session 4 Poster
23	Ozone precursors And Boundary Layer Meteorology Before and During a Severe Ozone Episode in Mexico City	Tanzina Akther	YES			In Person	Session 4 Poster
28	Anthropogenic and biological Nano-and micro-particles ice nuclei: Impact on interfacial processes	Parisa Ariya	NO			In Person	Session 4 Poster
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 Poster
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 Poster
60	The Hygroscopicity of Functionalized Insoluble Aerosol Surfaces	Chun-Ning Mao	YES			Remotely	Session 4 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
153	Total ozone reactivity measurements from a Norway spruce in late summer	Steven Job Thomas	YES			In Person	Session 4 Poster
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 Poster
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 Poster
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 Poster

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 Poster
240	Interfacial photochemistry of marine diatom lipids: Abiotic production of volatile organic compounds and new particle formation	Abra Penezic	NO			In Person	Session 4 Poster
273	Recent multiphase and heterogenous chemistry modeling with new CAPRAM mechanism modules	Andreas Tilgner	NO			Remotely	Session 4 Poster
280	The Role of Water Vapor on Photo-bleaching of Organic Aerosol Particles	Rachel O'Brien	NO			Remotely	Session 4 Poster
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 Poster
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 Poster
307	Seasonal measurements of hydroperoxy methylthioformate (HPMTF) over the North Atlantic Ocean	Thomas Bannan	NO			In Person	Session 4 Poster
311	Hygroscopic growth of aerosol particles in the Amazon	Tailine dos Santos	YES		Southern Hemisphere Working Group, Americas Working Group	In Person	Session 4 Poster
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 Poster
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 Poster
348	Wintertime Atmospheric Chlorine Chemistry on Aerosol Particles and Snow	Kerri Pratt	NO	CATCH: the Cryosphere and Atmospheric Chemistry		In Person	Session 4 Poster
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 Poster
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 Poster
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 Poster
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 Poster
67	Daily cycle of sea spray aerosols emission	J.Michel Flores	NO			In Person	Session 4: Poster
95	Fluorescent biological aerosol particles over the central Pacific Ocean: covariation with ocean-surface biological activity indicators	Kaori Kawana	NO			Remotely	Session 4: Poster
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: Poster
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: Poster
140	RADICAL: Developing an electronic sensor for detecting short-lived atmospheric radicals and other gases	Adrien Gandolfo	YES			In Person	Session 5 Poster
202	Climate Action at Regional Scales: Lessons for the Chicago Region	Ashish Sharma	NO		Americas Working Group	In Person	Session 5 Poster
271	Introducing NOAA's Earth's Radiation Budget (ERB) Program	Victoria Breeze	NO			In Person	Session 5 Poster

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 Poster
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 Poster
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 Poster
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 Poster
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 Poster
404	The need for comprehensive understanding of secondary aerosol formation mechanisms in the development of PM2.5 reduction policy in Jakarta, Indonesia	Drijeana Drijeana	NO	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality	Southern Hemisphere Working Group	Remotely	Session 5 Poster
69	Identifying key barriers to pollution and GHG emission reductions from Chinese agriculture for 2030.	Connie O'Neill	YES	GEIA: Global Emissions Initiative	China Working Group	In Person	Session 5: Poster
340	Relative contributions of fossil fuel and biomass burning sources to Black Carbon aerosol on the Southern Atlantic Ocean Coast and King George Island (Antarctic Peninsula)	Sérgio Gonçalves Jr.	YES	CATCH: the Cryosphere and Atmospheric Chemistry	Southern Hemisphere Working Group	Remotely	Session 5: Poster
383	Non-CO2 Forcers and their Climate, Weather, Air Quality and Health Impacts – New Project FOCl	Tomáš Halenka	NO	CCMi: Chemistry Climate Model Initiative		In Person	Session 5: Poster
462	Aerobiology of SARS-Cov-2 in a tropical condition: a case study in a Brazilian Slum	Sérgio Gonçalves Jr.	YES	MAP-AQ: Monitoring, Analysis and Prediction of Air Quality		Remotely	Session 5: Poster