Programme of the IAGOS Users' Meeting

Tuesday 14th November

10:30-11:00	Registration and Coffee		
11h00-11:30	Introduction	11:00-11:15	Hannah Clark: Logistics Andreas Wahner: Welcome
		11:15-11:30	Valérie Thouret: IAGOS, history, where we are now
		11:30-11:45	Simone Lolli: Atmospheric RIs in the European Landscape
11:30-13:00	Session 1: Air Quality (fires, dust storms, heatwaves, air-quality forecasts)	11:45-12:00	Vincent-Henri Peuch: Session Introduction
		12:00-12:15	Demba Ndao Niang: Establishment of an air quality observatory across Senegal
		12:15-12:30	Andreas Petzold: NO_x observations on CAL B18316 and their value for the validation of GOSAT-GW air quality products
		12:30-12:45	Xavier Querol: RI-URBANS: Advanced Air Quality Parameters in Urban Europe: Preliminary results from RI-URBANS
		12:45-13:00	Christoph Mahnke: IAGOS in-situ profiling of air quality indicators: Variability and vertical structure in the planetary boundary layer and troposphere above densely populated areas
13:00-14:00	Lunch		
14:00-15:15		14:00-14:15	Patryk Poczta: Change of Urban Aerosol Properties due to Long-Range Transport of Anthropogenic Pollution, Biomass Burning, and Desert Dust Particles
		14:15-14:30	Pawel Wolff: SOFT-IO 2.0: a new version of IAGOS modelled data product with source attribution of pollution with carbon monoxide
		14:30-14:45	Antje Inness: Use of IAGOS aircraft data for in-house validation of global CAMS model and data assimilation system
		14:45-15:00	Mark Parrington: Near-real-time tracking of the 2023 Canadian wildfires in the Copernicus Atmosphere Monitoring Service and evaluation with IAGOS measurements
		15:00-15:15	Thibaut Lebourgeois: Statistical analysis and comparison of carbon monoxide anomalies observed by IAGOS and modelled by MOCAGE in 2013
15:15-16:00	Session 2: Trends in Tropospheric Composition	15:15-15:30	Owen Cooper: Tropospheric ozone trends: Current understanding, historical context and future monitoring strategies
		15:30-15:45	Michael Prather: Deconstruction of tropospheric chemical reactivity using aircraft measurements: the ATom data.
		15:45-16:00	Susanne Rohs: Long-term trends in temperature, water vapour, relative

			humidity with respect to ice and fraction of ice supersaturated regions:
16:00-16:30	Coffee Break		
16:30-18:00	Session 2: Trends in Tropospheric Composition	16:30-16:45	Gary Lloyd: Trends in Tropospheric Cloud Measurements
		16:45-17:00	Anne Thompson: Tropical Tropospheric Ozone Trends (1990-2022): Integrating Satellite, Sonde & Aircraft Perspectives
		17:00-17:15	Ryan Stauffer: Dynamical Drivers of Free-Tropospheric Ozone Increases Over Southeast Asia
		17:15-17:30	Herman Smit: First Ozone Intercomparison Campaign of IAGOS (CORE & CARIBIC) versus WCCOS
		17:30-17:45	Daan Hubert: Harmonisation of Free Tropospheric Ozone Satellite Data Records in Support of TOAR Phase II
		17:45-18:00	Roeland Van Malderen: Trends in tropospheric ozone derived from homogenized ground-based and in-situ datasets within TOAR-II
18:00	Welcome drink		

Wednesday 15th November

09:00-10:30	Session 3: Tropopause and UTLS issues	09:00-09:15	Peter Hoor: The TPChange-project and the UTLS
		09:15-09:30	Philipp Joppe: Lower stratospheric correlation between ozone and particulate sulfate
		09:30-09:45	Sophie Bauchinger: Trends, the seasonality and variability of mixing ratios of the major long-lived greenhouse gases in the extra-tropical Upper Troposphere and Lowermost Stratosphere (UTLS).
		09:45-10:00	Patrick Konjari: Methodology for comparing and adjusting water vapor climatologies from IAGOS-MOZAIC and -CORE with IAGOS-CARIBIC
		10:00-10:15	Ziyan Guo: Comparison of IAGOS Measurements and ERA5 Reanalysis Data for Warm Conveyor Belt Contributions to UTLS Moisture Content.
		10:15-10:30	Julie Patuel: SOFT-IO-LI: Update on the tool merging space and ground based lightning observations and IAGOS aircraft NOx measurements
10:30-11:00	Coffee Break		
11:00-12:15	Tropopause and UTLS issues	11:00-11:15	Chaitri Roy: Estimation of stratospheric intrusions during Indian cyclones
		11:15-11:30	Harald Boenisch: The signal of biomass burning observed in the UT/LMS by IAGOS-CARIBIC
		11:30-11:45	Vaidehi Joshi: Transport processes regulating the lowermost stratospheric ozone reservoir

		11:45-12:00	Andreas Zahn: Spatiotemporal Distribution of Aerosol Particles around the Northern Hemispheric Extratropical Tropopause for Non-Volcanic Periods Between 2005-2015
		12:00-12:15	Debra E Kollonige: Southern Hemisphere Additional Ozonesondes (SHADOZ) 2023 Project and Data Archive Updates
12:15-13:00	Session 4: Aviation, Climate and Applications	12:15-12:30	Volker Grewe: Session Introduction
		12:30-12:45	Philipp Reutter: Ice supersaturated regions and their representation in reanalysis data
		12:45-13:00	Olivier Jaron: Forecasting Ice Supersaturated Regions using Numerical Weather Prediction, evaluation against IAGOS humidity data
13:00-14:00	Lunch		
14:00-15:45		14:00-14:15	Klaus Gierens: Forecasting ice supersaturation and persistent contrails
		14:15-14:30	Yun Li: The impact of surface warming on the occurrence of ice supersaturated regions and contrail cirrus
		14:30-14:45	Catherine Mackay: Use of IAGOS data for validation of Ice Supersaturated Regions along commercial flight paths.
		14:45-15:00	Sigrun Matthes: Evaluating uncertainty in aviation-induced atmospheric changes in the multi-scale Earth system model EMAC/MECO(1) using IAGOS observations
		15:00-15:15	Yann Cohen: A multi-model assessment of atmospheric composition in the UTLS with the IAGOS database, in the frame of the ACACIA EU project
		15:15-15:30	Nicholas Bojdo: Aircraft Engine Atmospheric Dust Ingestion Analysis using IAGOS Data
		15:30-15:45	Christoph Mahnke: Aviation induced aerosol particles within the UTLS: Properties and processing observed from the IAGOS-CARIBIC Flying Laboratory
15:45-16:15	Coffee Break		
16:15-17:30	Session 5: Instrumentation and Innovation	16:15-16:30	Jean Sciare: Innovation Strategies for Technology developments and Service provision
		16:30-16:45	Darrel Baumgardner: A portable system for semi-automatically calibrating and characterizing the optical performance of open-path single particle light scattering optical spectrometers like Droplet Measurement Technologies Backscatter Cloud Probe (BCP), Backscatter Cloudprobe with Polarization Detection (BCPD) and the Cloud Droplet Probe (CDP).
		16:45-17:00	Darrel Baumgardner: A Proposal for Modifying the IAGOS Backscatter Cloud Probe's Sizing Algorithm for Autocalibration and Ice Detection
		17:00-17:15	David Tarasick: Quantitative consistency of tropospheric ozone from ozonesonde (WOUDC) and aircraft (IAGOS) observations: vertical distribution, ozonesonde types and station distance
		17:15-17:30	Uli Bundke: New instrument developments for use on commercial aircraft: Future Proofing IAGOS in-situ instrumentation for certification
17:30-19:00	Photo and cocktail		

Thursday 16th November

09:00-10:30	Session 6: GHG Monitoring and Validation of Satellites and ESMs	09:00-09:15	Cyril Crevoisier: Long-term monitoring of GHG from space and airborne measurements
		09:15-09:30	Hiroshi Tanimoto: Evaluation of satellite-derived column-averaged mixing ratios of GHGs over oceans by integrating cargoship and commercial aircraft observations
		09:30-09:45	Christoph Gerbig: Current state and recent results from IAGOS greenhouse gas observations
		09:45-10:00	Danilo Custódio: Using IAGOS observations to characterize and reduce uncertainties/errors of CO2 fluxes estimated by inversion.
		10:00-10:15	Yasmine Bennouna: Validation of 12 years of IASI-CO with IAGOS
		10:15-10:30	Michel Ramonet: Total column and vertical profile measurements in low latitude sites and in the Paris area.
10:30-11:00	Coffee Break		
11:00-12:00	Session 7: Meeting the Needs of the Scientific Community	11:00-11:15	Steve Arnold: Regular trace gas and aerosol profile measurements in the Arctic troposphere: a key data gap in constraining Arctic processes and reducing model uncertainties.
		11:15-12:00	Open Discussion