Monday 15th of June

9:00	Opening session - by **Margreet van Zanten**		Plenary room 0.51	9:00
9:10	Keynote speaker - **Ilse Aben**	*Methane satellite observations in support of climate action*	Plenary room 0.51	9:10
9:50	Keynote speaker - **Arjan Hensen**	*Cool hydrogen is hot*	Plenary room 0.51	9:50
10:30 11:00	**Coffee break**			10:30 11:00

	Plenary room 0.51	Room 1.34	Room 1.49	Room 1.53	
	NON-CO2 GHG mitigation and impacts	**N2O: observations, emissions, local budgets and policies**	**Satellite-based methane source estimations**	**Halocarbons: observations, emissions, local budgets and policies**	
	Chair: Lena Hoglund-Isaksson	*Chair: Gerard Velthof*	*Chairs: Sander Houweling & Bram Maasakkers*	*Chair: Guus Velders*	
11:00	Mokhele Moeletsi Agricultural Research Council Methane emissions abatement in the agricultural sector of South Africa	Sonja Keel Centre National de Recherches Météorologiques/Centre national de la recherche scientifique National-scale simulations of N20 emissions from agricultural soils in Switzerland	Maarten van Herpen Acacia Impact Innovation BV Satellite quantification of enhanced methane oxidation applied to the stratospheric plume following Hunga Tonga-Hunga Ha'apai eruption	Stefan Reimann Empa Desflurane out, Sevoflurane and Isoflurane in: A complete history of atmospheric observations and emissions from 1980 to 2025	11:00
11:20	Yeraldin Roa Medina Pontificia Universidad Javeriana Assessing Methane and Carbon Dioxide Emissions from Rice Cultivation in Colombia, their relationship with environmental variables and Exploring Sustainable Mitigation Strategies through Management Practices	Philippe Ricaud Centre National de Recherches Météorologiques/Centre national de la recherche scientifique Nitrous oxide (N2O) surface fluxes derived from IASI space-borne observations	Mengyao Liu Royal Netherlands Meteorological Insititute Unveiling Cascading Lag Effects of Wetland Methane Emissions: Evidence from tropical Africa	Stefan Reimann Empa Industrial emissions of ozone-depleting substances are delaying the recovery of the stratospheric ozone layer	11:20
11:40	Mathijs Harmsen PBL Netherlands Environmental Assessment Agengy The role of non-CO2 greenhouse gases in future climate strategies	Cecile de Klein New Zealand Institute for Bioeconomy Science Limited Potential factors that regulate plantain's ability to reduce N2O emissions from pasture-based livestock systems	Martin Vojta University of Vienna Constraining methane emissions in the EMME region using TROPOMI satellite data in an atmospheric inversion	Lionel Constantin Empa Expanding atmospheric surveillance: non-target screening and open spectral databases for persistent halogenated	11:40
12:00	Pengnan Jiang Peking University Scaling near-term climate benefits through low-GWP refrigerants and energy efficiency in China	Erne Blondeau Wageningen University & Research Mechanisms behind indirect N2O emissions from soils	Yasjka Meijer European Space Agency (ESA) Observations from the upcoming CO2M mission and the international coordination of methane monitoring activities	Michelle Jessy Müller Empa Investigating regional halocarbon emissions: the Seoul tracer release experiment	12:00
12:20	Kathryn Vest Lancaster University Modelling the Enhancement of Methane Oxidation through the Addition of Chlorine	Jaeho Yeo Gachon University Monitoring urban N2O concentrations in Seoul metropolitan area	Jaemin Hong Seoul National University OSSE-Based Performance Characterization of the NarShaTM XCH4 Retrieval Algorithm	Guus Velders National Institute for Public Health and the Environment Trends in consumption and emissions of hydrofluorocarbons (HFCs) in response to the Kigali Amendment of the Montreal Protocol	12:20
12:40	Lena Höglund-Isaksson International Institute for Applied Systems Analysis (IIASA) Global methane mitigation potentials and the progress of the Global Methane Pledge -an up-to-date assessment using the GAINS model			Michela Maione University of Urbino Monitoring the impact of EU F gas regulation on HFC 134a emissions through a comparison of top down and bottom up estimates.	12:40
13:00 14:00	**Lunch break**				13:00 14:00

	Plenary room 0.51	Room 1.34	Room 1.49	Room 1.53	
	NON-CO2 GHG mitigation and impacts	**N2O: observations, emissions, local budgets and policies**	**Satellite-based methane source estimations**	**Halocarbons: observations, emissions, local budgets and policies**	
	Chair: Lena Hoglund-Isaksson	*Chair: Gerard Velthof*	*Chairs: Sander Houweling & Bram Maasakkers*	*Chair: Guus Velders*	
14:00	Lovisa Kuehnle-Nelson International Institute for Applied Systems Analysis Global historical methane emissions 1970–2024: a technology-based bottom-up reconstruction	Rens Accou Ghent University Mitigating nitrous oxide emissions from manure and fertilizer use in Flemish cropland: two multi-year field experiments	Dominik Brunner Empa Top-Down Estimates of Methane Emissions in Romania and Italy Using Multiple TROPOMI CH_4 Products in ICON-ART/CIF Inversions	Lucy Hart Lancaster University TFA Production from HFO-1234yf: A global emissions inventory and source-receptor modelling tudy	**14:00**
14:20	Robert H. Beach RTI International Marginal Abatement Cost Curves for Reducing Non-CO2 Greenhouse Gas Emissions from Global Agricultural Production through 2080	Mart Ros Wageningen Environmental Research Nitrous oxide emissions from field application of various mineral and organic fertilizers	Aki Tsuruta Finnish Meteorological Institute Assimilation of JAXA/EORC GOSAT lower-tropospheric partial column data in an atmospheric inverse model for estimation of global and regional CH4 fluxes	Anita Ganesan University of Bristol First Multi-year observations of halogenated gases from South Asia in support of the Montreal Protocol and F-gas policies	**14:20**
14:40	Robert H. Beach RTI International Global Mitigation Potential for Non-CO2 Greenhouse Gases: 2025-2080	Karin Nikolaus Wageningen University & Research Exploring the influence of long-term soil carbon sequestration practices on N2O emissions	Yu-Ri Lee Seoul National University Potential and Challenges of Detecting Urban Methane Point Sources with EMIT	Seyed Omid Nabavi Univerisity of Vienna Top-Down Evaluation of HFC Emissions and Inversion Sensitivities in China, the US, and EU-27	**14:40**
15:00	Robert H. Beach RTI International State-Level Non-CO2 Greenhouse Gas Mitigation Through 2080	Késia Silva Lourenço Wageningen University & Research Nitrous Oxide Emission Factors for Tropical Perennial Crops: Field-Based Evidence from Coffee and Cocoa Systems Across Countries	Sandro Meier Empa Quantifying anthropogenic CH4 emissions with the Airborne Visible InfraRed Imaging Spectrometer AVIRIS-4	Dominique Rust University of Bristol Global and regional emissions of 1,2-dichloroethane derived from AGAGE and NOAA observations	**15:00**
15:20	Tatsuya Hanaoka National Institute for Environmental Studies Mitigation Scenarios for Achieving Climate Mitigation, Air Quality Improvement, and Nitrogen Waste Reduction in Asia	Wim de Vries Wageningen University & Research Impacts of fertilizer types and site conditions on emission factors for nitrous oxide and ammonia from fertilizers across Europe	Vadim Rakitin Russian Academy of Sciences Features of analysing long-term satellite series to assess trends and sources of methane	Clare Suzanne Perry Environmental Investigation Agency UK The feedstock files: growing production, emerging emissions and implications for the montreal protocol's role in protecting the planet.	**15:20**
15:40 **16:10**	**Break**				**15:40** **16:10**

	Plenary room 0.51	Room 1.34	Room 1.49	Room 1.53	
	Global and regional budgets and inverse modelling	**N2O: observations, emissions, local budgets and policies**	**Water systems - lakes, rivers, ditches, wetlands, esturia and offshore**	**(Extra-)Tropical ecosystems**	
	Chair: Maarten Krol & Peter Builtjes	*Chair: Gerard Velthof*	*Chair: Ilona Velzeboer*	*Chair: Klaus Butterbach-Bahl*	
16:10	Shoma Yamanouchi Environment and Climate Change Canada Optimization of the gaussian dispersion model Inversion for estimating methane emissions in Canada	Samin Payrosangari University of Karlsruhe The performance of deep learning models on modelling N2O emissions from temprate grasslands	Ilona Velzeboer TNO Atmospheric methane emission measurements from abandoned wells and natural sources: a case study from the Dutch North Sea	Jaber Rahimi Institute of Meteorology and Climate Research Atmospheric Environmental Research Modeling Yield-Scaled N_2O Emissions Across sub-Saharan African Croplands: A Regional LandscapeDNDC Application	**16:10**
16:30	Vincent Huijnen Royal Netherlands Meteorological Institute A 47-year record of methane loss rates with IFS-COMPO: trend analysis and assessment against other datasets	Rianne Dröge TNO High resolution anthropogenic N2O emission inventory for Europe	Merit van den Berg UK Centre for Ecology & Hydrology Ecosystem-level drivers of CH4 fluxes from wetlands in the UK, combining eddy covariance observations with process-based modelling	Serge Alebadwa Karlsruhe Institute of Technology Soil N_2O and N_2 emissions and their implications for nitrogen budget in the Congo Basin	**16:30**
16:50	Eliza Harris University of Bern Isotope measurements at baseline and background sites	Stephan Henne Empa Intercomparison of inverse and process modelling of N2O emissions across Europe	Christof Ammann Agroscope CH4 and N2O flux measurements on a restored wetland in Switzerland	Marian Cabrera Pantoja Pontificia Universidad Javeriana Unveiling tropical methane hotspots: The Colflux platform for advanced MRV and Flux Quantification in Colombia's high-carbon wetlands	**16:50**
17:10	Martin Vojta University of Vienna Quantifying European SF6 emissions (2005-2021) using a large ensemble of atmospheric inversions	Jonas Bruckhuisen MIRO Analytical/Bruker N_2O – a key target for MIRO's all-in-one instrument for air-quality and greenhouse-gas monitoring	Sarian Kosten Radboud University Anthropogenic CH4 and N2O emissions from constructed waterbodies: drivers and potential mitigation measures		**17:10**
17:30		Magdalena Hofmann Picarro B.V. A new mid-IR CRDS platform for high precision and robust N_2O concentration and isotopic measurements			**17:30**
17:50	END OF DAY 1				**17:50**
18:00	**Ice-breaker reception**				**18:00**
19:00					**19:00**

Tuesday 16th of June

9:00 Keynote speaker - **Mark Lawrence** — *What does the Anthropocene have to do with SLCPs?* — Plenary room 0.51 — **9:00**

9:40 / 10:00 **Coffee break** **9:40 / 10:00**

	Plenary room 0.51	Room 1.34	Room 1.49	Room 1.53	
	Global and regional budgets and inverse modelling	**Landfills, waste emissions and waste management**	**Measurement systems and methods / FTO session**	**Hydrogen: observations, emissions, local budgets and policies**	
	Chair: Maarten Krol & Peter Builtjes	*Chair: Adriana Gomez-Sanabria*	*Chairs: Ilona Velzeboer & Arjan Hensen*	*Chairs: Thomas Röckmann & Ceres Woolley Maisch*	
10:00	Valentin Bruch Deutscher Wetterdienst National-scale CH4 emissions derived from in-situ observations and the ICON-ART model	Adriana Gomez-Sanabria International Institute for Applied Systems Analysis From commitments to climate impact: are current NDCs enough to deliver substantial methane reductions in the waste sector?	Yin Wang HealthyPhoton Towards Minimally Corrective Open-Path Eddy Covariance Methane Flux Measurements	Dorian Bréheret TNO, TU Delft The net climate impact of the Dutch hydrogen economy	**10:00**
10:20	Marko Scholze Lund University The AVENGERS Horizon Europe project: Attributing and Verifying European and National Greenhouse gas and aerosol Emissions and Reconciliation with Statistical bottom-up estimates	JD Bram Maasakkers Space Research Organisation Netherlands Supporting waste methane mitigation using satellites	Sina Kukowski Thünen Institute of Climate-Smart Agriculture Ammonia measurements over multiple fertilization campaigns using eddy covariance and the integrated horizontal flux method	Scott Herndon Aerodyne Research Discovering the losses in hydrogen's industrial supply chain: conventional and emerging uses	**10:20**
10:40	Nalini Krishnankutty NILU Atmospheric inversion of European N_2O emissions: An EYE-CLIMA initiative	Edna Valeria Zumaya Flores Universidad de Monterrey In situ measurements of methane emissions from wastewater sludge in Mexico: Advancing toward an IPCC Tier 2 approach	David D. Nelson Aerodyne Research Progress toward low flow rate, low power eddy covariance flux measurements	Ceres Woolley Maisch Utrecht University Quantification of molecular hydrogen emissions of new and existing infrastructure using mobile measurements	**10:40**
		Animal housing and enteric fermentation *Chair: Peter Visser*			
11:00	Emeline Tapin Laboratoire des Sciences du Climat et de l'Environnement (LSCE) Isotopic constraints on global methane source attribution within an atmospheric inversion framework	Morten Krogsbøll University of Copenhagen Scaling a methane eradication photochemical system for agricultural applications	Samuel Brohede FluxSense Mobile optical methods for emission measurements and leak search of NCGG from various sources – examples from around the world	Alice Ramsden Met Office UK Top-down modelling of direct UK hydrogen emissions using atmospheric concentration observations, including consideration of hydrogen's soil sink and atmospheric source	**11:00**
11:20	Peter Andrews UK Met Office Impact of driving meteorology on NAME footprints and InTEM top-down methane estimates	Magdalena Hofmann Picarro B.V. Real-time, online monitoring of ammonia and GHG emissions in livestock with Cavity Ring-Down Spectroscopy	Lutz Merbold Agroscope Integrating non-CO_2 greenhouse gas estimation into agroecological farm assessments: a livestock emission score for smallholder systems in East Africa	Marya el Malki TNO A gridded inventory of anthropogenic hydrogen emissions in Europe	**11:20**
11:40	Sander Houweling Vrije Universiteit Amsterdam Comparison of hydroxyl radical data and their impact on methane inversions				**11:40**

12:00 / 13:00 **Lunch** **12:00 / 13:00**

	Plenary room 0.51	Room 1.34	Room 1.49	Room 1.53	
	Global and regional budgets and inverse modelling	**Methane and fossil sources**	**Non-CO2 inventories: Monitoring, Verification and Reporting**	**Nitrogen, reactive gases and aerosols climate effects**	
	Chair: Maarten Krol & Peter Builtjes	*Chairs: Thomas Röckmann & Roberto Paglini*	*Chair: Margreet van Zanten*	*Chair: Wim de Vries*	
13:00	Paolo Cristofanelli National Research Council of Italy Influence of open vegetation fires on atmospheric methane at two European GAW/WMO and ICOS measurement sites.	Roberto Paglini Utrecht University Mobile ground methane measurements in European cities: harmonizing methodologies and implications for inventory updates	Katharina Heimerl Utrecht University Verifying and improving methane emission inventory data using atmospheric measurements in the Netherlands (IMEO-VIME-NL)	Jurrian van Waaij Wageningen University & Research Inclusion of plantain (P. lanceolata) in pastures mitigates N2O and NO emissions after fertilization	**13:00**
13:20	Adrien Martinez Laboratoire des Sciences du Climat et de l'Environnement Assessing the potential of the Co-assimilation of ethane to constrain gobal methane emissions	Anna Kanduth Climate Analytics Cutting fossil fuel methane to limit overshoot: evidence from a new study	Hugo Denier van der Gon TNO Exploration of the use of methane super-emitter data in bottom-up emission inventories; a case study on solid waste disposal	Maria Anna Antonovardaki Wageningen University & Research Impacts of animal, fertilizer, manure, soil, crop, and water management practices on methane, nitrous oxide, and ammonia emissions from agriculture	**13:20**
13:40	Pieter Rijsdijk Vrije Universiteit Amsterdam Comparison of hydroxyl radical data and their impact on methane inversions	Mehmet Gür Water and Agricultural Meteorology Research Institute Field-based methane flux monitoring and machine learning–driven assessment of drip irrigation mitigation potential in rice systems	Donghee Kim Hawassa University High-resolution Methane Emission Inventory for the Wastewater Treatment Sector in Korea for Reconciling Bottom-up and Top-down Estimates	Øivind Hodnebrog Center for International Climate Research Uncertain climate effects of anthropogenic reactive nitrogen	**13:40**
14:00	Ben Adam University of Bristol Investigating the global budget of HFC-23	Clark Talkington Advanced Resources International Strengthening monitoring, reporting and verification (MRV) of coal mine methane emissions to support coal industry decarbonization	Camila Suárez Chávez Universidad de Monterrey Quantifying Value Chain Emissions: A Carbon Footprint Analysis of a Higher Education Institution	Davide Plebani Università Cattolica del Sacro Cuore Coupled NO and O_3 Exchange Dynamics in a Temperate Deciduous Forest of the Po Valley	**14:00**
14:20	Luisa Pennacchio University of Copenhagen Constraining CO2 yield from CH4 oxidation using newly obtained HCHO kinetic isotope effect	Jacoline van Es Utrecht University Characterisation of the regional source mix of methane at different locations in Europe using continuous isotope ratio measurements of d2H and d13C	Chayenne Olumuyiwa TNO Radon Tracer Method: Using Radon to Optimize Regional Transport Model Performance for Methane	Gerard Velthof Wageningen University & Research Trends and future challenges in NH_3, NO_X and N_2O emissions from agricultural soils in the Netherlands	**14:20**
14:40		Andrey Skorokhod University of Vienna Methane concentration over the Kara and Barents Seas based on marine measurements from 2015 to 2025	Hannes Witt Rijksinstituut voor Volksgezondheid en Milieu A detailed comparison of the Dutch national emission inventory with satellite-derived NOx and ammonia emissions		**14:40**
15:00	**Coffee break**				**15:00**
15:20	1 minute poster pitches	For more information on the poster presentations click here!		Plenary room 0.51	**15:20**
16:45	Poster and networking session			Plenary room 0.51	**16:45**
17:45	END OF DAY 2				**17:45**

Wednesday 17th of June

9:00	Keynote speaker - **Sönke Zaehle**	*Global net climate effects of anthropogenic reactive nitrogen*	Plenary room 0.51	9:00
9:40 10:00	**Coffee break**			9:40 10:00

	Plenary room 0.51	Room 1.34	Room 1.49	Room 1.53	
	Global and regional budgets and inverse modelling	**Methane and fossil sources**	**Non-CO2 inventories: Monitoring, Verification and Reporting**	**Nitrogen, reactive gases and aerosols**	
	Chair: Maarten Krol & Peter Builtjes	*Chairs: Thomas Röckmann & Roberto Paglini*	*Chair: Margreet van Zanten*	*Chair: Wim de Vries*	
10:00	Lefteris Ioannidis Royal Netherlands Meteorological Institute Sensitivity of satellite-derived NH_3 and NO_x emission estimates to chemical transport model setup: A test case study over Europe	Jason McKeever GHGSat Validated detection and quantification of methane emissions below 5 kg/hr from aircraft	Alistair Manning UK Met Office Developing collaborations between national GHG inventory compilers and the atmospheric monitoring community: The successes and challenges	Pascal Wintjen TNO Flux measurements of NH3 in a natural peatland area - insights in flux dynamics and implications for process parametrizations	10:00
10:20	Ioannis Cheliotis Vrije Universiteit Amsterdam Optimizing CH4 fluxes over Europe using the ICOS tall tower network using different inverse models	Rakesh Yuvaraj Université de Reims-Champagne Ardenne Uncertainties in quantifying coal mine shaft CH4 emissions from in-situ and remote sensing instruments using high-resolution plume modelling	Andrea Kaiser-Weiss Deutscher Wetterdienst Observation-based emission estimates for complementing inventories in Germany	Maureen Beaudor Laboratoire des Sciences du Climat et de l'Environnement How rising agricultural ammonia emissions affect atmospheric chemistry and climate?	10:20
10:40	Ernest N. Koffi ECMWF The Copernicus Monitoring Service for Anthropogenic Methane Emissions	Barbara Teichert Georg Agricola University of Applied Sciences Methane emissions from closed hard coal mines: processes, controls and implications for the EU-methane regulation	Discussion led by Margreet Van Zanten "Bridging two communities: practical tools for closing the gap between inventories and atmospheric scientists"	Natália Machado Crespo Charles University Non-CO2 Forcers and their Climate, Weather, Air Quality and Health Impacts (project FOCI): modelling chemistry-climate interactions over scales	10:40
11:00	Jeonghyeok Moon Seoul National University Regional 4D-Var inversion of methane emissions over South Korea using the CMAQ adjoint model	Hyuckjae Lee Seoul National University Field-based refinement and validation of dispersion coefficients for methane emission modeling using controlled release experiments		Jurrian van Waaij Wageningen University and Research Inclusion of plantain (P. lanceolata) in pastures mitigates N2O and NO emissions after fertilization	11:00
11:20 11:40	**Coffee break**				11:20 11:40
11:40	**Discussion on Non-CO2 reporting session**	*Chaired by Margreet Van Zanten*	Plenary room 0.51		11:40
12:20 13:20	**Lunch break**				12:20 13:20
13:30	**Closing session**	*Chaired by Michiel van Weele*	Plenary room 0.51		13:30
15:30	END OF DAY 3				15:30