

WORKSHOP ON VOCs

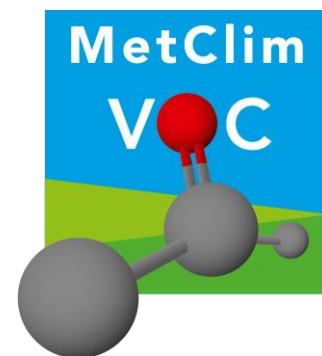
- bringing in situ & remote communities together for a better data uncertainty estimation


Location: https://teams.microsoft.com/registration/O2bc07e1mkagpcfGhML1pg.ThgA7vMKGkWK9Zq7_SNFTQ,Z2UxC3OwkkWrcObthVf7cw.C1HME7z7xUOzEzcZ_q34Ww.2Br2TA9uc0u0z-UTi378JQ,BV378D4Bv0KplGAJecAxbw?mode=read&tenantId=3bdc6643-b5b7-469a-a0a5-c7c684c2f5a6

Facilitators: Volker Ebert (Volker.Ebert@ptb.de)
Céline Pascale (Celine.Pascale@metas.ch)

Date: 14.10.2021 Thursday

Time: 9:00 to 17:00 CET(Berlin)



9:00 – 9:05	Check-in, registration	
9:05 – 9:10	Welcome	Volker Ebert (PTB)
Session 1	Challenges, needs and efforts toward accurate and comparable VOC measurements	
9:10 – 9:30	Introduction to the EMPIR MetClimVOC project and objectives	 Céline Pascale (METAS)
9:30 – 9:50	VOC monitoring in the ACTRIS network: in situ and remote	Paolo Laj (ACTRIS)
9:50 – 10:10	Importance of data quality for modellers and end users	Stefan Reimann (Empa)
10:10 – 10:20	Introduction on uncertainty basic concepts	Gang Li (PTB)

Coffee break (10:20-10:40)




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The EMPIR initiative is co-funded by the European Union's Horizon 2020 research and innovation programme and the EMPIR Participating States

Session 2

In situ VOC measurements: metrological aspects and uncertainty estimation

10:40 - 11:00	Static reference gas mixture preparation and uncertainty		Stefan Persijn (VSL)
11:00 - 11:30	Dynamic reference gas mixture preparation and uncertainty: permeation and diffusion methods		Maitane Iturrate-Garcia (METAS) & Maricarmen Lecuna (POLITO)
11:30 - 11:50	Implementation of automatic validation parameters for continuous quantification of VOCs in ambient air using dual TD-GC FID-MS		Fanny Bachelier (Chromatotec/ICARE-CNRS (UPR3021))
11:50 - 12:10	Improvement of VOC measurement methods: challenges and best practices		Thérèse Salameh (IMT)

Lunch break (12:10 – 13:40)

Session 3

Comparisons and verifications of different measurements modes: remote, ground based and in situ

13:40 - 14:05	Dynamic generation of formaldehyde standards and their analysis by FTIR - methods and uncertainties		Joële Viallon (BIPM)
14:05 - 14:35	Comparing ground-based remote sensing measurements to in situ measurements at Jungfraujoch		Bart Dils (BIRA)
14:35 - 14:45	Moderated discussion		All, PTB, METAS

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Coffee break (14:45-15:00)

Session 4

Remote sensing VOC measurements: metrological aspects and uncertainty estimation

15:00 – 15:30	Comparison of spectroscopic data of SF6: their impact on retrieved atmospheric abundances of SF6 and derived mean age of stratospheric air.	Gabriele Stiller (KIT-IMK)
15:30 – 16:00	The HITRAN2020 molecular database	Iouli Gordon (Harvard CfA)
16:00 – 16:30	Atmospheric Chemistry Experiment (ACE)	Jeremy Harrison (UoL/NCEO)
16:30 – 16:45	High-resolution FTIR absorption cross-section measurements at PTB	 Gang Li (PTB)

Close

Open discussion with moderators

16:45 – 17:00	Beyond the project: EMN for Climate and Ocean Observation (EMN-COO)	All, Céline Pascale, Volker Ebert
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MetClimVOC website

<https://www.metclimvoc.eu/>

MetClimVOC consortium



Collaborators



Stakeholder committee members

Chris Boone --- Project Scientist of the Atmospheric Chemistry Experiment ([ACE](#))

Owen Cooper --- Co-chair of the Tropospheric Ozone Assessment Report ([TOAR-2](#))

Iouli Gordon --- Director of the [HITRAN](#) spectroscopic database

Lorenzo Labrador --- Scientific officer at the World Meteorological Organization ([WMO](#))

Paolo Laj --- Scientific chair of [ACTRIS](#)-Europe and chair of WMO-GAW Scientific Advisory Group for Aerosols ([SAG-AERO](#))

Michela Maione --- Member of the Advanced Global Atmospheric Gases Experiment ([AGAGE](#))

Josep Peñuelas --- Director of CREAM-CEAB-CSIC-UAB [Global Ecology Unit](#)

Tuukka Petäjä --- Co-coordinator of the [ACTRIS Implementation](#) project

Leonard Rivier --- Director of the Integrated Carbon Observation System Atmosphere Thematic Centre ([ICOS-ATC](#))

Norbert Schmidbauer --- Senior scientist at the Norwegian Institute for Air Research ([NILU](#))

Isobel J. Simpson --- Member of the [WMO-GAW](#) Scientific Advisory Group for Reactive Gases (SAG-RG)

Gabriele Stiller --- Group leader, the Satellite-borne Remote Sensing of Trace Gases (SAT) at the Institute of Meteorology and Climate Research (KIT-IMK), division Atmospheric Trace Gases and Remote Sensing ([ASF](#))

Oksana Tarasova --- Chief of the WMO-Global Atmosphere Watch ([GAW](#)) programme

Renato Zenobi --- Head of the [Zenobi Group](#) at ETHZ Organic Chemistry Lab