



ESA CCI - LOLIPOP User Workshop

Understanding Satellite Observations of Anthropogenic Greenhouse Gases other than CO₂ and CH₄

18-19 November 2025 | Bologna (Italy)

DAY 1: Meeting starts at 10:30 - Timezone: Europe/Rome

10:30	10 min	Intro + Workshop Practicalities	(Serco/CNR)
10:40	15 min	Welcome	Bianca Dinelli (CNR-ISAC)
10:55	15 min	ESA CCI programme Intro	Simon Pinnock (ESA)
11:10	20 min	Overview of the ESA CCI LOLIPOP project	Elisa Castelli (CNR-ISAC)
11:30	20 min	Dataset harmonization and validation/inter-comparison: Nadir products	Bart Dils (BIRA)
11:50	20 min	Dataset harmonization and validation/inter-comparison: Limb products	Kaley Walker (University of Toronto)
12:10	20 min	Case study 1: Sensitivity of historical climate model simulations to the OLLGHGs climatology	Federico Fabiano (CNR-ISAC)
12:30	90 min	Lunch break	
14:00	20 min	Case study 2: Study of the radiative forcing of OLLGHGs	Michaela Hegglin/Reinhold Spang (FZJ)



14:20	20 min	Case study 3: Monitoring of stratospheric chlorine levels and their impacts on ozone recovery	Antonio Giovanni Bruno (NCEO)
14:40	20 min	Case study 4: CLaMS stratospheric circulation estimates	Felix Plöger (FZJ) REMOTE
15:00	20 min	Case study 5: The atmospheric lifetimes of OLLGHGs	Jeremy Harrison (NCEO)
15:20	20 min	Insights into GCOS's mission for ECVs	Caterina Tassone (GCOS) REMOTE
15:40	30 min	Coffee break	
16:10	20 min	Insights from the ESA CCI Climate Modelling User Group (CMUG)	Amy Doherty (Met Office) REMOTE
16:30	20 min	Operational monitoring of atmospheric composition: current status	Michiel van Weele (KNMI) REMOTE
16:50	20 min	Integrating Earth Observations into GHG Forcing Datasets for CMIP	Florence Bockting (Climate Resource) REMOTE

DAY 1: meeting ends at 17:10

Evening: Social dinner (no-host)

**DAY 2: Meeting starts at 9:00 - Timezone: Europe/Rome**

9:00	15 min	Day 1 recap	CNR
9:15	15 min	Halocarbon radiative forcing	Keith Shine (Uni. Reading)
9:30	15 min	Middle atmospheric mean transport derived from satellite data of tracers	Gabriele Stiller (KIT)
09:45	15 min	The impact of Space Weather on Earth's atmospheric chemistry and climate	Lorenzo Biasiotti (INAF-OATs)
10:00	15 min	Simulation of the impact of hydrofluorocarbon (HFC) emissions in Togo on global average temperature	Koffi Ayassou (Uni. Lomé) REMOTE
10.15	15 min	Atmospheric reactivity, infrared absorption cross section and climate metrics of HCFC-132b	Nicola Tasinato (Scuola Normale Superiore)
10.30	30 min	Coffee break	
11.00	15 min	Contribution of low-wavenumber absorption to halocarbon radiative forcing	Daniela Alejandra Alvarado Jiménez (Scuola Normale Superiore)
11.15	15 min	Age of air from ACE-FTS measurements of sulfur hexafluoride	Laura Saunders (Uni. Toronto)
11.30	30 min	Review of climate applications and user needs	Federico Fabiano (CNR-ISAC)
12.00	60 min	Discussion and wrap up	All

DAY 2: meeting ends at 13:00