



COP27
SHARM EL-SHEIKH
EGYPT 2022

COP27 Side events programme

Systematic observation of greenhouse gases (GHG) to support climate action in cities and regions

Wednesday 9 Nov. 2022, 11:30–13:00, Akhenaten



Funded by
the European Union

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This event is co-organised by Climate Chance, the Integrated Carbon Observation System, and the Republic of Côte d'Ivoire.

Climate Chance
ICOS
Republic of Côte d'Ivoire

Romain Crouzet / romain.crouzet@climate-chance.org
Emmanuel Salmon / emmanuel.salmon@icos-ri.eu
Abé Yapou Eric-Michel Assamoi / eric_michel_assamoi@yahoo.fr

This event presents new approaches to generating spatial/temporal information from emission inventories, focusing on an African and a European point of view. We aim to show how the comparison with observation and innovative data collection can improve inventories and support climate mitigation, adaptation and risk management. Each speaker below will have a 10-minute topical talk, followed by a discussion.

Richard Engelen *Deputy Director, Copernicus Atmosphere Monitoring Service, ECMWF*

Within the EU's Copernicus Earth Observation programme, a new greenhouse gas emission monitoring capacity is being set up to support countries and cities with their mitigation activities. The EU-funded CoCO2 project is building the prototype systems, which outputs are being used to have a dialogue with prospective user communities around the globe to ensure that a fit-for-purpose capability is developed. Current examples and ideas for further exchange will be shown and discussed.

Antoine Gillod *Director of the Observatory on Non-State Climate Action, Climate Chance*

Based on Climate Chance's 2022 Global Synthesis Report on Climate Action by sector, we will showcase the story behind the figures and key trends in climate action in the main GHG-emitting sectors across the world, with a focus on the increasing entanglement of geopolitical constraints and climate action, and its impact on society. The presentation will also introduce the newly opened Observatory on climate action in Africa.

Leena Järvi *Professor in Urban Meteorology, University of Helsinki*

ICOS Cities (PAUL – Pilot Applications in Urban Landscapes) is a European research project aiming to develop a systematic GHG measurement system for urban areas. The presentation will showcase the measurement and modelling used in three pilot cities (Paris, Munich and Zurich) and discuss their adaptability and scalability beyond Europe.

Rose Lekalesoi *Assistant Director climate services section at Kenya Meteorological Department*

The Kenya Meteorological Department (KMD) will showcase the atmospheric composition observations monitored at the Mt. Kenya GAW station and the Nairobi GAW station. The presentation will present the use of the collected data, as well as its contribution to the KADI project.

Véronique Yoboué *Professor, Félix Houphouët-Boigny University*

The deterioration of air quality in Côte d'Ivoire has led to the rise of a science-based mitigation approach. In this presentation we will showcase the research outlines of the "Aerosols and pollution" team from the Université Félix-Houphouët-Boigny, featuring some of the measurements done, and underline the Côte d'Ivoire contribution to the KADI project.

The event will be moderated by **Werner L. Kutsch** *Director General of the Integrated Carbon Observation System (ICOS).*