Dutch Satellite Innovations for Supporting Climate Action

This event seeks to inspire with the practical possibilities to monitor emissions with satellites and help realizing climate policy under the Paris Agreement. It is organized by Clear Air, a consortium of the Dutch research and technology organizations. The event is held at the Benelux/EIB pavilion of the COP27 in Sharm El-Sheikh. Those who attend the COP27 can register to attend the event in person, and others can you the live stream of EIB.

Audience

The event is aimed at policy makers and the general climate community.

Agenda

- *9.30: Clear Air: Dutch Satellite Innovations to Support Climate Action and Monitor Emissions* (Anton Leemhuis, Chairman of the Clear Air consortium/ TNO)

  Incl. Q&A
- *10:00: How satellites can help reduce methane emissions. Case Studies of e.g. coal mines, oil & gas, and landfills* (Ilse Aben, SRON Netherlands Institute for Space Research/ Earth Sciences Vrije Universiteit, Amsterdam)

  Incl. Q&A
- *10.30: How can Satellite Monitoring be used in Emission Inventories and Support the Realization of Climate Policy under Paris Agreement?* (Hugo Denier van der Gon, TNO Netherlands Organization for Applied Scientific Research)

  Incl. Q&A

Date/ time

8 November 2022, 9:30 to 11:00 local time.

Location

BENELUX-EIB Pavilion at COP27, Sharm El-Sheikh

You Tube: https://youtu.be/vrL8fB1rSLA

Registration

https://events.eib.org/88KYR

Clear Air is a consortium of:

BENELUX-EIB Pavilion:

Anton Leemhuis heads the earth observation activities of the Netherlands Organization for Applied Scientific Research (TNO). He is involved in various climate initiatives, such as the development of a new concept for a European satellite mission to monitor emissions in high accuracy at facility level (TANGO), which is under development in cooperation with the European Space Agency (ESA) and other Dutch partners. Furthermore he works closely together with companies and policy makers to realize innovations that create actionable information from satellite data, with a main focus on monitoring trace gases that negatively impact climate, health and biodiversity. Anton is chairman of Clear Air, a Dutch research consortium for earth observation of the atmosphere. Previously he was Managing Director of TNO's Middle East Branch Office and he worked for over a decade in the energy sector to realize innovation in strong cooperation with the private sector and governments. He holds a master's degree in Mechanical Engineering and a master's degree in the Philosophy of Science, Technology and Society. www.linkedin.com/in/antonleemhuis

Prof. Dr. Ilse Aben is a Senior Scientist at SRON Netherlands Institute for Space Research and endowed Professor at the Vrije Universiteit Amsterdam. As Co-Principal Investigator for TROPOMI (Tropospheric Monitoring Instrument onboard Sentinel-5P) she leads the SRON team working on TROPOMI, mainly focusing on methane and carbon monoxide. Her expertise is in satellite remote sensing of long lived greenhouse gases methane and carbon dioxide, and related species such as carbon monoxide. Her interest lies in measuring and understanding anthropogenic (and natural) emissions. One of her current key projects uses satellites for the detection and identification of methane super emitters to support climate mitigation action. She is a member of the Scientific Advisory Panel of the Climate and Clean Air Coalition (CCAC), the MethaneSat Science Advisory Group, and the Science & Measurement Advisory Committee for CarbonMapper. https://www.linkedin.com/in/ilse-aben-95a099223/

Hugo Denier van der Gon received his PhD from Wageningen University (1996) studying methane emissions from wetland rice fields. He contributed to IPCC as expert reviewer, the good practice guidelines and received a certificate for contributing to the IPCC Nobel Peace Prize 2007. Since 2001 he works at the Netherlands Organisation for applied scientific research (TNO), as Principal Scientist. He has over 25-years' experience in measuring and estimating emissions from anthropogenic sources and (co)authored 100+ peer-reviewed articles. He coordinates a team that provides European emission inventories to modelling groups for example under the Copernicus Atmospheric Monitoring Service (CAMS) and many European research projects. His recent research interests focus for air pollutants on particulate matter and its components including black carbon and organic carbon and on the use of earth observation to improve emission inventories, especially for CO_2 and methane monitoring and mitigation. He is member of the Global Emissions InitiAtive (GEIA) steering committee (http://www.geiacenter.org/), frequently contributes to international initiatives such as AMIGO (IGAC) and EMISA (South American emission inventories) and is a member of the European Commission CO_2 Taskforce. https://www.linkedin.com/in/hugo-denier-van-der-gon/

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