

Project ID 282448

UN/Austria Symposium 2022: Space for climate action: experiences and best practices in mitigating and adapting to climate change and supporting sustainability on Earth; 13-15 September 2022

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Context and scope

- The aim of the symposium was to **increase knowledge** on the use of space applications for climate change mitigation, **improve understanding** of the challenges and approaches of different countries, **raise awareness** of the availability of datasets and training, and **encourage action**.
- The symposium included **4 Sessions** (Space applications for climate action: current status, Monitoring Earth from space to address climate change and three country cases of Nigeria, India and Austria; **2 Panels** (Greening space systems engineering and Recommendations for future activities) and **project pitches**.
- The symposium fitted perfectly into the NoR goal of supporting research, development and pre-commercial users to innovate their working practices and move from a paradigm of downloading data to one of "bringing the user to the data".

Participation in the symposium and the trainings

- The symposium received **817 registrations** from 104 countries mainly from India, Nigeria and Austria; 60% male, 39% female; 38% age 19-30, 47% age 31-50; biggest stakeholder groups: 25% Research and Academia, 25%, Government and national public sector, strong number of students (21%)
- After the symposium several trainings were offered by
 - **NASA ARSET** Atmospheric CO₂ and CH₄ Budgets to Support the Global Stocktake
 - **ISRO**: Sustainable space-based data for climate monitoring (277 registrations, 50 showed up)
 - **ESA**: Life cycle Assessment and Ecodesign for Space (602 registrations, 124 persons showed up)
 - **ECMWF**: Copernicus Climate change and Atmosphere Monitoring Services (593 registrations, 101 persons showed up)

The EODC Training on Introduction to Earth Observation data analysis using open EO Platform on 27 September 2022

- **525 registrations:** 67% male, 31% female, 2% prefer not to say; 8% aged 0-18, 45% aged 10-30, 41% aged 31-50, 7% aged 51-65; from 95 countries mainly from India (91), Pakistan (30), Philippines (28), Singapore (28), Nigeria (22), Tunisia (19), USA (17), Indonesia (16), Egypt (15)
- *Training providers:* Earth Observation Data Centre (EODC) and Deltares
- *Description:* This openEO Platform course introduced the working principles of Earth Observation (EO) analysis in openEO, a hands-on training on openEO Platform and a demonstration of how to implement a workflow using openEO.
 - In the morning session, a full overview of how to sign up and log in using EGI Check-in was provided as well as how to process EO data with the available openEO Platform web-interfaces.
 - In the afternoon session, one of C-SCALE's use cases was presented as a representative example of how to integrate openEO in a project.

Links and reports

- The UN/AT Symposium 2022

<https://www.unoosa.org/oosa/en/ourwork/psa/schedule/2022/un-austria-symposium-2022.html>

- The Post-Symposium Trainings

<https://www.unoosa.org/oosa/en/ourwork/psa/schedule/2022/climateactiontrainings.html>

- The EODC Training on Introduction to Earth Observation data analysis using open EO Platform

<https://www.unoosa.org/oosa/en/ourwork/psa/schedule/2022/eodc-training.html>

- The Report to the Committee on the Peaceful Uses of Outer Space on the United Nations/Austria
Symposium on Space for Climate Action

https://www.unoosa.org/res/oosadoc/data/documents/2022/aac_105/aac_1051269_0_html/AC_105_1269E.pdf

