Contribution ID: 24 Type: not specified

ACTRIS European Research Infrastructure Consortium: delivering harmonised, high-quality atmospheric data and services

Thursday 4 December 2025 14:30 (15 minutes)

European Research Infrastructures provide coordinated efforts for scientific data to address global challenges, such as air pollution and climate change, by facilitating extensive collaboration across wide geographical areas

Aerosol, Clouds, and Trace Gases Research Infrastructure (ACTRIS) is at the forefront of these efforts, offering data, tools and services on short-lived atmospheric components: aerosol particles, clouds and reactive trace gases.

The most important ACTRIS service is the high-quality data, which is openly available to users from all over the world. The data are harmonised through the standard operating procedures and processing protocols as well as quality controlled via regular calibration of the instruments. Besides data, various virtual tools for processing the data online are also available at the portal.

Another essential ACTRIS service is to provide access to the state-of-the-art measurement facilities, both fixed stations and mobile platforms, that can be deployed e.g., in targeted air quality campaigns. ACTRIS also provides training and education related to instruments and processing of atmospheric data.

ACTRIS is taking an active role in discussions and implementations of a new Air Quality Directive that was recently taken into effort in the EU. We provide service tools to improve and harmonize air quality measurements (https://riurbans.eu/project/#service-tools).

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Session Classification: Training and capacity building