

**ANNOUNCEMENT OF THE
1st ACTRIS SCIENCE CONFERENCE &
ACTRIS training course on atmospheric observations**

Timeline

11 May – 13 May 2022: 1st ACTRIS Science conference (online)
2 May – 10 May 2022: ACTRIS training course + tutorials (online)

Hosted by

ACTRIS

Organizers

Institute for Atmospheric and Earth System
Research (INAR), University of Helsinki

University Atmosphere and Climate Competence
Center (ACCC), University of Helsinki Helsinki

ACTRIS Interim Head Office

Supporters

European Commission

University of Helsinki

Academy of Finland

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About the 1st ACTRIS Science Conference

OVERVIEW

The three-day open science conference aims to bring together members of different atmospheric science communities and discuss the latest scientific breakthroughs, e.g. in air quality and climate research. The contributions are solicited on the topics covering all aspects of ACTRIS scientific activities. Furthermore, we would like to encourage the participation of scientists working in the other European Environmental Research Infrastructures to share their findings and access unique opportunities for networking and R&D collaboration!

The *tutorials*, organized before the conference as part of the full course, serve as an introduction to ACTRIS and the different in-situ and ground-based remote sensing techniques utilized within ACTRIS (see below).

The conference sessions:

- Air quality
- Climate change
- Integrating different ACTRIS components
- Combining ACTRIS & other Environmental Research Infrastructures
- Measurement technologies and innovation
- Exploratory platforms (e.g. chambers, mobile platforms, etc.)
- General ACTRIS Science (only poster sessions)

Plenary speakers: *Ilona Riipinen* (Stockholm University), *Ioar Rivas* (Barcelona Institute for Global Health), *Urs Baltensperger* (ETH Zurich), *Celine Degrendele* (Aix Marseille Université, RECETOX), *Juha Kangasluoma* (INAR) and *Gordon McFiggans* (University of Manchester).

Full program will be available later: <https://www.actris.eu/news-events/events/1st-actris-science-conference>

WHO IS IT FOR?

- Research organizations and scientists in the field of atmospheric and environmental sciences
- Environmental Research Infrastructures and their staff
- Private companies developing scientific instrumentation or services in the field of atmospheric sciences and industrial end-users looking for new technologies / services
- Air Quality Networks and end-users of air quality data interested in enhancing their monitoring capacities and implementing newest scientific findings

CALL FOR ABSTRACTS AND REGISTRATION

Abstract submission and registration are now open: <https://www.actris.eu/form/actris->

- You find in the link above the template form to prepare your abstract.
- The abstracts will be published in the Report Series in Aerosol Science.
- The abstract should be: camera-ready, from 1 to 6 pages long and written in English.
- The abstract should be submitted in PDF format. The file should be named as "lastname_firstname_abstract_%02d.pdf", corresponding to the presenting Author (as in Petaja_Tuukka_abstract_01.pdf). The number corresponds to the number of submitted abstracts by the same first author.
- Abstracts that do not fulfil the standards will be rejected (pay attention to author-list format!).

In case of questions about the conference, contact: actris-sc-info@helsinki.fi

Abstract submission deadline: 25 March 2022 (late abstract submission will not be considered!)

Registration deadline: 2 May 2022

Poster submission deadline: 4 May 2022

About the ACTRIS training course “Atmospheric observations of aerosols, clouds and reactive trace gases” / TUTORIALS

OVERVIEW

This is an introductory course focusing on in-situ measurements and ground based remote sensing techniques of atmospheric aerosols, reactive trace gases and clouds. The students are expected to learn to understand the basic principles behind the measurement methods, to know the most important instrumentation including their advantages and limitations and how to use the data. They get familiar to research infrastructures. We will discuss questions related to open data, data management and data quality. During the course the students will use openly available data to answer their own research questions.

The **Tutorials**, which are part of the course, are given by experts from the ACTRIS central facilities and serve as an introduction to in-situ and ground based remote sensing observational techniques.

METHODS OF PARTICIPATION

Option 1: taking the full course

The full course consists of a pre-assignment, tutorials (lectures), group work, participation in ACTRIS Science Conference (11-13th May) and a short report to be handed in after the course. Attendance during the intensive period (2nd to 13th May, ca. 9-11 & 13-17 CEST daily) is mandatory. The lectures are given via Zoom. Master and doctoral students will obtain a certificate corresponding to 5 ECTS after successful participation and completing all assignments.

Option 2: tutorials only

The tutorials are open for everyone interested, but pre-registration is required. No certificate or credits will be provided. The tutorials take place 2nd-10th May between 9-11 or 13-15 CEST.

Full program will be available later at www.actris.eu/Training_school_2022.

Participation link will be sent to registered participants.

TARGET GROUP AND PREREQUISITES

The course & tutorials are intended to advanced master students, doctoral students, young scientist (e.g. post docs), and personnel from aerosol measuring stations and research institutes involved in ACTRIS, CRAICC, GAW, GUAN, and EMEP.

For participating on the full course, good English understanding and speaking skills, as well as basic knowledge about atmospheric science is required. The students should have at least basic skills in data analysis using a program of their liking (e.g. Matlab, Python, ...).

APPLICATION/REGISTRATION

Fill in the online application form at: <https://elomake.helsinki.fi/lomakkeet/116141/lomake.html>

The number of participants on the full course is limited. In case there are too many applications, students will be selected based on their reason to take the course, their study background, and the order of registration. The students are notified in the middle of April if they have been selected for the course. **The tutorials are open to all registered participants.**

In case of questions about the course/tutorials, contact: katrianne.lehtipalo@helsinki.fi

FULL COURSE registration deadline: 25 March 2022

TUTORIALS registration deadline: 25 April 2022

About the hosts

Aerosol, Clouds and Trace Gases Research Infrastructure (ACTRIS) is the pan-European research infrastructure producing high-quality data and information on short-lived atmospheric constituents and on the processes leading to the variability of these constituents in natural and controlled atmospheres. ACTRIS supports supporting scientific advances in the field of atmospheric research.

www.actris.eu

Institute for Atmospheric and Earth System Research (INAR), University of Helsinki, is a multi- and interdisciplinary research unit based in physics, chemistry, meteorology, forest sciences, environmental sciences and social sciences. INAR aims to strengthen the internationally leading, integrated multidisciplinary research and education environment for atmospheric and Earth system science and to feed in scientific results for the national and international environment and climate policy. It performs multiscale research from molecular to global scale and focuses on climate change, air quality, biogeochemical cycles and ecosystem processes.

www.atm.helsinki.fi/inar

The Atmosphere and Climate Competence Center (ACCC) is a Finnish Flagship constituted by the University of Helsinki, Tampere University, University of Eastern Finland, and the Finnish Meteorological Institute working to address two of the most urgent global Grand Challenges: climate change and deteriorating air quality.

www.acccflagship.fi/