SAVE THE DATE

1st ACTRIS SCIENCE CONFERENCE

and

ACTRIS course on atmospheric observations

Timing:

2 MAY – 10 MAY 2022 (ACTRIS course + instrument / technology tutorials, on-line)

11 MAY – 13 May 2022 (1st ACTRIS Science conference, on-line)

Hosted by

ACTRIS

Organizers:

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

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

ACTRIS Interim Head Office

Supporters:

European Commission

University of Helsinki

Academy of Finland

The conference is funded by the European Union research and innovation programme under grant agreements ACTRIS IMP (871115), ATMO-ACCESS (101008004), RI-URBANS (101036245) and Academy of Finland via ACCC flagship (337549).

About the 1st ACTRIS Science Conference

OVERVIEW

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 participation of the scientists working in the other European Environmental Research Infrastructures to share their findings and access unique opportunities for networking and R&D collaboration!

The scientific topics include e.g.,

- Climate change
- Air quality
- Measurement technology development and innovation
- Atmospheric composition and vertical profiling
- Aerosol particles, trace gases and clouds
- Harmonization of observations
- Laboratory experiments
- Mobile measurements (Measurement campaigns and experiments)
- Calibration / validation of satellite observations
- ACTRIS data usage in models

PARTICIPATION AND CALL FOR ABSTRACTS

Science conference registration and the call for abstracts will open in March 2022. The abstracts will be published in the Report Series in Aerosol Science. For more information and updates, please visit https://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
- 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

About the ACTRIS training course *Atmospheric observations of aerosols, clouds and reactive trace gases*

OVERVIEW

The course focuses on in-situ measurements and ground based remote sensing techniques of atmospheric aerosols, reactive trace gases and clouds.

The participants 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 to discuss the open research questions in the field. We will also address issues related to open data, data management and data quality. During the course, the participants will use open data to answer their own research questions.

METHODS OF PARTICIPATION

The FULL COURSE consists of a pre-assignment, tutorials, group work and a project work (to be handed in after the course). Attendance during the intensive period (2rd to 10th May, ca. 6-8h/day) is mandatory. Master and doctoral students will obtain a course certificate equal to 5 ECTS after successful participation and completing all assignments.

It is also possible to follow the OPEN TUTORIALS arranged by ACTRIS central facilities only (no certificate will be provided). The schedule of the tutorials will be available later.

TARGET GROUP AND PREREQUISITES

The course is intended to advanced master students, doctoral students, young scientist and personnel from aerosol measuring stations and research institutes involved in ACTRIS, CRAICC, GAW, GUAN, and EMEP.

Basic knowledge about atmospheric science and good English understanding and speaking skills are required. The students should have at least basic skills in data analysis using a program of their liking (e.g., Matlab, Python, …).

The number of participants on the full course is limited. The tutorials are open to all registered participants.

APPLICATION/REGISTRATION

The registration (for tutorials) /application (for full course) will open in March 2022.

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

ACTRiS INAR INSTITUTE FOR ATMOSPHERIC AND EARTH SYSTEM RESEARCH HELSINGIN YLIOPISTO HELSINGFORS UNIVERSITET UNIVERSITY OF HELSINKI ACCC CLEAN AIR. SAFE CLIMATE.

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/