

Partners

ACTRIS unites 28 partners from 19 European countries:

- Consiglio Nazionale delle Ricerche, IT
- Centre National de Recherche Scientifique, FR
- Norsk Institutt for Luftforskning, NO
- Helsingin Yliopisto, FI
- Technische Universiteit Delft, NL
- Paul Scherrer Institut, CH
- Leibniz Institut fuer Troposphaerenforschung e.V., DE
- Eidgenoessische Materialpruefungs- & Forschungsanstalt, CH
- University of Reading, GB
- Universitat Politecnica de Catalunya, ES
- Max-Planck-Institut für Meteorologie, DE
- Lunds Unviersitet, SE
- Agencia Estatal Consejo Superior, ES
- National University of Ireland, Galway, IE
- Natural Environment Research Council, GB
- Foundation for Research and Technology, Hellas, GR
- Commission of the European Communities, DG JRC, EU
- Deutscher Wetterdienst, DE
- B.I. Stepanov Institute of Physics, BY
- Institute for Nuclear Research and Nuclear Energy, BG
- Uniwersytet Warszawski, PL
- Consorzio Nazionale Interuniversitario, IT
- National Institute of R&D for Optoelectronics, RO
- Ludwig-Maximilians-Universitaet Muenchen, DE
- Czech Hydrometeorological Institute, CZ
- Pannon Egyetem, HU
- Belgian Institute for Space Aeronomy, BE
- Universidad de Valladolid, ES

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Aerosols, Clouds, and Trace gases Research InfraStructure Network

Coordinated Advanced
Atmospheric Observations
in Europe

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www.actris.net

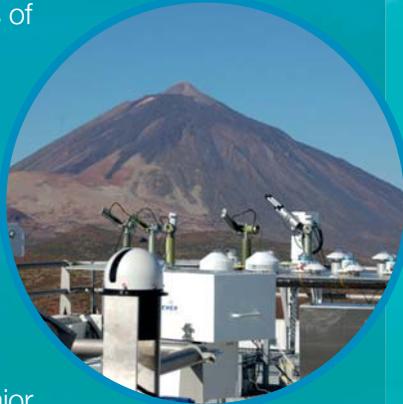


Challenge

Reliable information on the state of the atmosphere and its interactions is of crucial importance. Understanding the nature of atmospheric processes and components is fundamental to meet the challenges of global climate change, air quality, and pollution.

ACTRIS is an outstanding research infrastructure launched in 2011 and will, for the first time, provide coordinated observations of the major atmospheric variables. With a considerable network of ground-based research stations across Europe, ACTRIS will:

- Ensure long-term observations of aerosols, clouds, and trace gases
- Establish an operational network for the atmospheric key parameters
- Advance new scientific knowledge in atmospheric research
- Strengthen the ground-based component of the global Earth Observing System
- Support policy issues on climate change, air quality, and long-range transport of pollutants



Highlights

The ACTRIS research infrastructure positions itself at the forefront of atmospheric research:

- ACTRIS provides high-quality data relevant to climate and air quality research – presently unavailable in any existing monitoring networks or data centres
- ACTRIS enables access to key variables through a centralised data centre, covering a multitude of representative environments and air mass types in Europe
- ACTRIS promotes opportunities for world-class research and international collaboration with its unique infrastructures and advanced instrumentation
- ACTRIS supports training of researchers and young scientists to become future leaders in the field and to promote scientific excellence in less-favoured regions in Europe
- ACTRIS develops new technologies and algorithms for monitoring activities relevant for climate and air quality models, satellite retrievals, and forecast systems



Results

ACTRIS is a research infrastructure of the highest quality and performance in Europe and ensures long-term monitoring of the atmospheric environment.

The ACTRIS observing system provides scientists, politicians, and citizens with reliable and up-to-date information on air quality and climate. It contributes towards achieving environmental sustainability and human well-being and is vital to the development of atmospheric science and innovation in Europe.



ACTRIS Observation Network

