

# ACTRIS Data Centre: An atmospheric data portal

Poster will be presented by Cathrine Lund Myhre, NILU

## All ACTRIS data:

- Aerosol extinction and backscatter coefficient profiles from ca 38 sites.
- Aerosol and trace gas *in situ* data from ca 30 sites
- Cloud profiles data from 8 sites



Is available through data joint portal: <http://actris.nilu.no>

## The data portal is linking various data bases

- possible to download data from various data archives at same time.

**ACTRIS - Aerosols, Clouds and Trace gases Research Infrastructure**  
 and access to ACTRIS Data: <http://actris.nilu.no/>  
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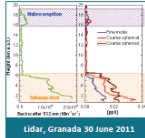
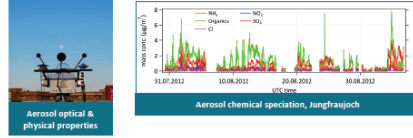



**ACTRIS**

The Aerosols, Clouds and Trace gases Research Infrastructure (ACTRIS) is a European project integrating atmospheric supersites equipped with advanced instrumentation for studying aerosols, clouds, and short-lived gas-phase species: <http://www.actris.net>

- ✓ improves measurements from numerous instruments located at more than 40 European sites illustrated in the map to the right
- ✓ ground based *in situ* measurements include aerosol optical, physical and chemical properties and measurements of short-lived trace gases (volatile organic carbon and nitrogen oxides) at ~25 European sites
- ✓ aerosol profile measurements provide aerosol scattering and extinction profiles, and more, at ~25 European sites
- ✓ cloud profile measurements provide drizzle drop sites, ice water content, and more at ~10 European sites

The ACTRIS data centre (ACTRIS DC) is giving free and open access to all data resulting from the activities of the infrastructure complemented with data from relevant networks and data bases.

**Snapshot from ACTRIS Data Centre, more on <http://actris.nilu.no/>**


**Basics about ACTRIS DC:**  
 One goal: assist scientists with discovering and accessing atmospheric composition data. It contains an up-to-date catalogue of available datasets in a number of databases distributed throughout the world. Number of data sets identified through the DC is now 53046 from 1672 sites. Data bases and networks currently available are e.g. ACTRIS, EMEP, EUSAAR, ESCAR, EARLINET, CLONUNET, GAW-WDCA, GAWIS-WDCGG...

**Search & find data:** Search for atmospheric data across various data bases and networks, more will be implemented like AERONET.

**Network affiliation:** The map shows an example with all sites reported data to GAW/CA with the information available in the markers for Nepal Climate Observatory and the variables measured at this site.

**Download:** All ACTRIS data, and a lot of other data can be downloaded. Access is regulated through data protocols. The example shows data from Calzoux. Some data need registration and login (EARLINET) some are open (EUSAAR, EMEP). Download of larger data volumes for model use can be arranged.  
 Number of aerosol profiles: ca 37 000  
 Number of aerosol *in situ* time series: ca 1700  
 Number of trace gas time series: ca 100

**Collocation of measurements:** The map shows sites with measurements of absorption coefficient, black carbon, (Elemental carbon) and extinction coefficient and collocation of these observations in Europe.



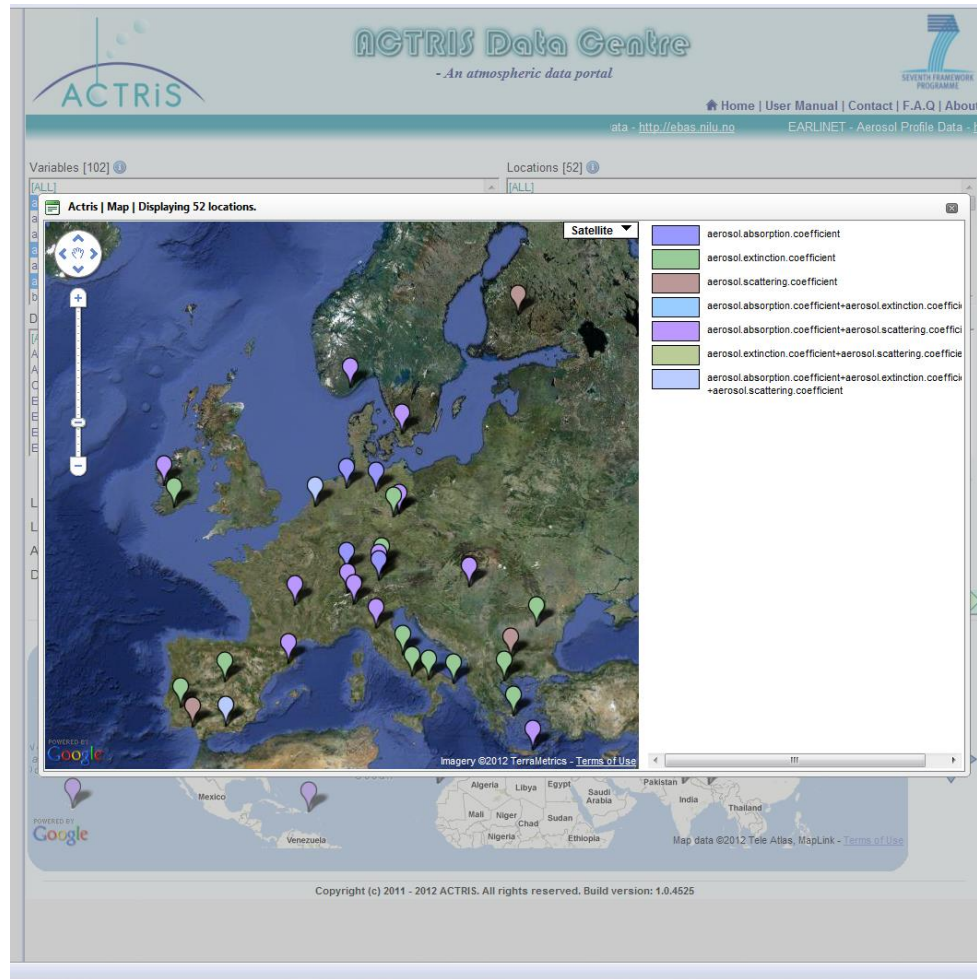
Interested in ACTRIS or ACTRIS data? Contact Cathrine Lund Myhre, [clm@nilu.no](mailto:clm@nilu.no) (PI ACTRIS Data Centre), or Gelsomina Pappalardo [gelsomina.pappalardo@imas.cnr.it](mailto:gelsomina.pappalardo@imas.cnr.it) (Coordinator ACTRIS) or Paolo Laj [paolo.laj@ipag.osis.ujgrenoble.fr](mailto:paolo.laj@ipag.osis.ujgrenoble.fr) (Co-coordinator ACTRIS).

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# Tool for search & find atmospheric data

Example:

- Easy overview of collocation of variables, sites and complementary data sets
- Example shows extinction, absorption and scattering coefficients in Europe



## The poster

- explains the portal, what's there and how it can be used
- suggestions and wishes are welcome!

## PI ACTRIS data Centre:

- Cathrine Lund Myhre arrives Tuesday afternoon and stays the rest of the week.