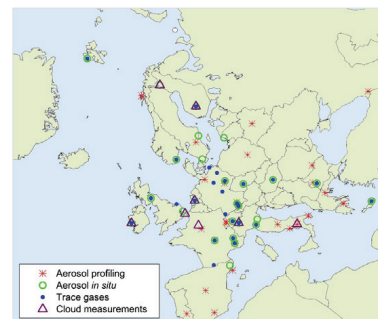


The Aerosols, Clouds and Trace gases Research InfraStructure (ACTRIS) is a European project integrating atmospheric supersites equipped with advanced instrumentation for studying aerosols, clouds, and short-lived gas-phase species: <http://www.actris.net>

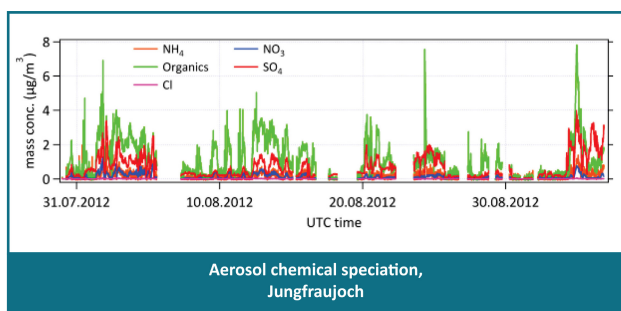
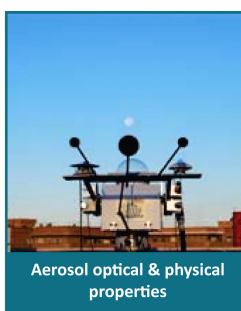
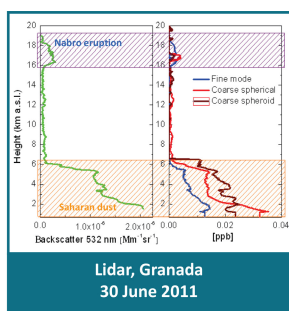
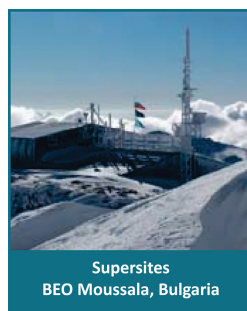
ACTRIS

- ✓ 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.



ACTRIS ILLUSTRATIONS



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

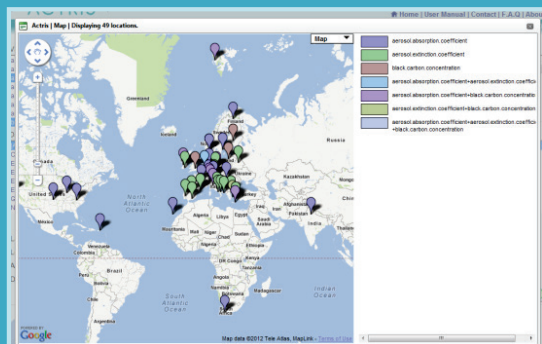
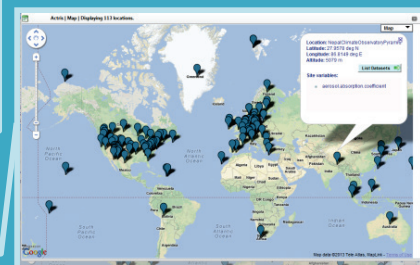
Basics about ACTRIS DC:

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, EUCAARI, EARLINET, CLOUDNET, GAW-WDCA, GAW-SIS-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 GAWDC with the information available in the markers for Nepal Climate Observatory and the variables measured at this site.



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.



Dataset	Site	Platform	Component	Location	Parameter	Start Date	End Date
ACTRIS-IL	Italy	ground-based	aerosol composition	Cabauw	PM10	10-01-2008 12:00:00	10-01-2008 12:00:00
ACTRIS-IL	Italy	ground-based	aerosol composition	Cabauw	PM2.5	10-01-2008 12:00:00	10-01-2008 12:00:00
ACTRIS-IL	Italy	ground-based	aerosol composition	Cabauw	PM10	10-01-2008 12:00:00	10-01-2008 12:00:00
ACTRIS-IL	Italy	ground-based	aerosol composition	Cabauw	PM2.5	10-01-2008 12:00:00	10-01-2008 12:00:00
ACTRIS-IL	Italy	ground-based	aerosol composition	Cabauw	PM10	10-01-2008 12:00:00	10-01-2008 12:00:00
ACTRIS-IL	Italy	ground-based	aerosol composition	Cabauw	PM2.5	10-01-2008 12:00:00	10-01-2008 12:00:00
ACTRIS-IL	Italy	ground-based	aerosol composition	Cabauw	PM10	10-01-2008 12:00:00	10-01-2008 12:00:00
ACTRIS-IL	Italy	ground-based	aerosol composition	Cabauw	PM2.5	10-01-2008 12:00:00	10-01-2008 12:00:00
ACTRIS-IL	Italy	ground-based	aerosol composition	Cabauw	PM10	10-01-2008 12:00:00	10-01-2008 12:00:00
ACTRIS-IL	Italy	ground-based	aerosol composition	Cabauw	PM2.5	10-01-2008 12:00:00	10-01-2008 12:00:00

Download: All ACTRIS data, and a lot of other data can be downloaded. Access is regulated through data protocols. The example shows data from Cabauw. 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.