

ALICENet, the Automated Lidar-Ceilometer network

ALICENet is a network of operational stations run by Italian research institutions and environmental agencies aimed at improving the multi-disciplinary use of environmental data.

ALICENet provides a near-real time atmospheric profiling made by five automated lidar-ceilometers (ALC) located across Italy. A measurement database from previous field campaigns is also provided (yellow ALC symbols).

ALC profiling allows retrieving the following information:

- Mixing layer height (pollutants dispersion height);
- Time-altitude distribution of particulate matter;
- Presence and concentration of Saharan/fires/volcanic plumes;
- Cloud height;
- Fog level.

This information is functional in the fields of meteorology, air quality, environmental and flight safety and for climate studies.

Posted data are preliminary and their copyright belongs to the station PI.s. For relevant information, please contact the project office at: alicenet@isac.cnr.it

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Links:

Aeronet: <http://aeronet.gsfc.nasa.gov/>

Diapason: <http://www.diapason-life.eu/>

SDS-WAS: <http://sds-was.aemet.es/>