



Dispersion and evolution of the Eyjafjallajökull ash plume over Europe: vertically resolved measurements with the European LIDAR network EARLINET

Gelsomina Pappalardo (1), Ina Mattis (2), and the EARLINET Team

(1) CNR-IMAA Consiglio Nazionale delle Ricerche - Istituto di Metodologie per l'Analisi Ambientale, Tito Scalo (Potenza) I-85050, Italy (pappalardo@imaa.cnr.it), (2) Leibniz Institute for Tropospheric Research Leipzig, Germany

EARLINET, the European Aerosol Research Lidar NETwork, established in 2000 is the first coordinated lidar network for tropospheric aerosol study on continental scale. The network activity is based on scheduled measurements, a rigorous quality assurance program addressing both instruments and evaluation algorithms, and a standardised data exchange format. At present, the network includes 26 lidar stations distributed over Europe.

EARLINET has been closely monitoring the cloud of volcanic ash from the Eyjafjallajökull volcano in Iceland since it started erupting on 15 April.

EARLINET is providing data about the presence, altitude and layering of the plume, together with optical information all over Europe.

Updated measurement reports and more information about EARLINET can be found at www.earlinet.org.

The financial support for EARLINET by the European Commission under grant RICA-025991 is gratefully acknowledged.