

VA Detector

Accurate measurements of atmospheric content for Volcanic Ash Monitoring (2 deployment types Vertical or 3D)

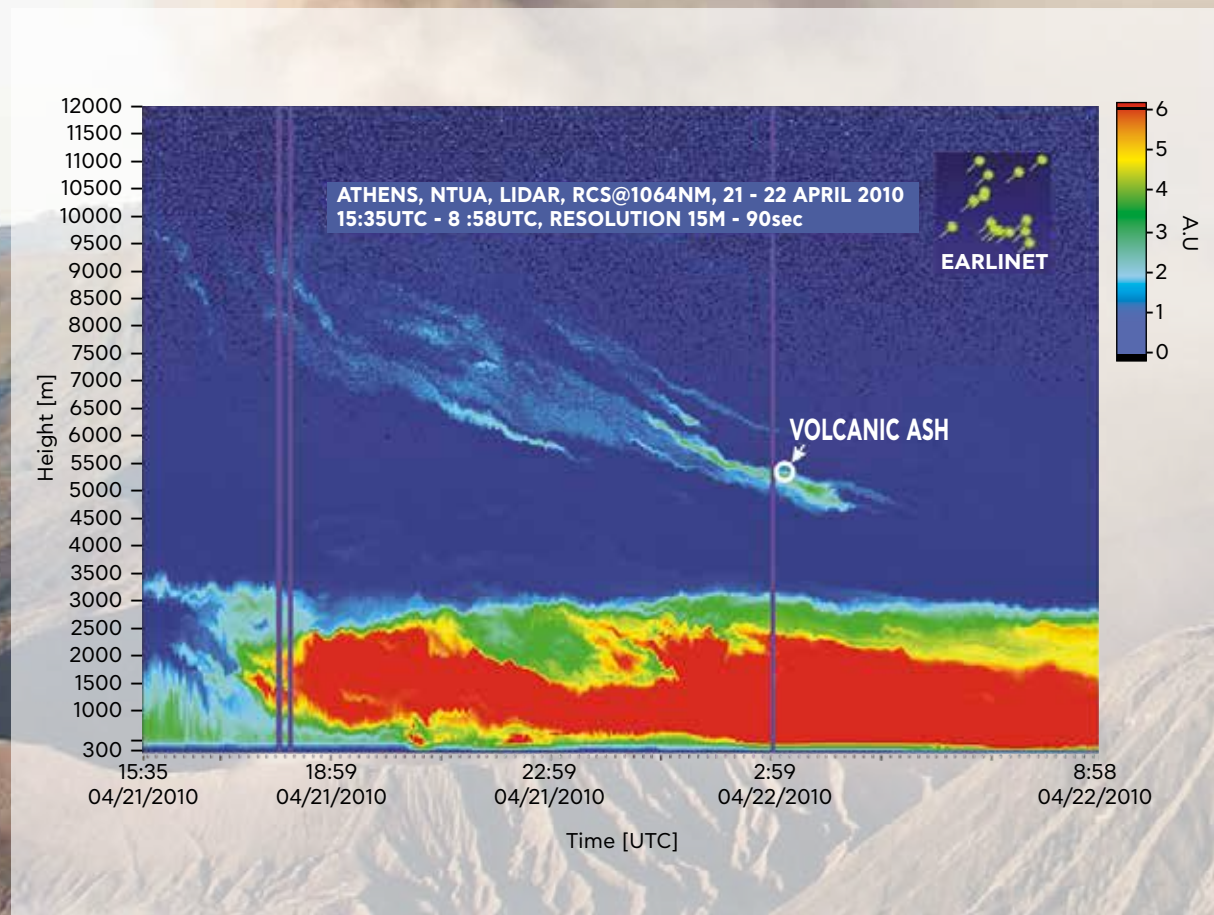


Minimizing disruption to flights during a Volcanic eruption

Volcanic ash presents a global issue for the aviation industry. In recent years volcanic events have resulted in grounded flights around the world for periods up to 30 days.

Volcanic ash plumes are subject to long-range transport and are carried over large areas by strong winds, causing major disruption to the global air transport industry. Combining a decade of innovative development Raymetrics provides you with the best ground based remote sensing technology. Our systems detect ash clouds more easily and predict how they might spread, more accurately.

Capabilities - Volcanic Ash Detection Identification



Why choose Volcanic Ash Detector from Raymetrics?

- Detects ash layer and provides indication of aerosol type in real-time.
- Significantly more powerful than ceilometers, it also provides the heights and optical properties of ash plumes even at very high altitudes, which is difficult to determine by other means.
- Provides first estimation of mass concentration of the ash layer based on state-of-the-art algorithms, either autonomously or in synergy with other information (e.g. passive sensors, models and in-situ data measurements).

Raymetrics Lidar Networks

Several meteorological agencies have decided to deploy LIDAR networks to aid decision-making in case of volcanic ash events. This includes the Met Office in the U.K, which decided to implement a national network as a direct consequence of the Eyjafjallajokull Icelandic eruption in 2010. The Met Office LIDAR network currently consists of 10 Raymetrics depolarization Raman systems scattered around the country, including one system contained in a mobile van. Raymetrics has deployed other networks and systems in Italy, Germany, Indonesia, South Korea, Singapore, China, while several other projects are under way.

Benefits to Aviation

- The information collected will allow improved forecasts on the dispersion of ash to support decision-makers in the aviation sector.
- The deployment of Raymetrics systems will help the National Air Traffic Service to make decisions on flight safety across airspaces, based on the safety thresholds set by the Civil Aviation Authority and the International Civil Aviation Organization.
- Significant cost savings for the Aviation Industry.

System Suitable for:

- Civil Aviation Authorities
- Airports
- Meteorological Agencies

CERTIFICATES

Raymetrics is to become the first atmospheric LIDAR manufacturer able to offer certifications for its products, and for their systematic uncertainties, from LiCAL/ACTRIS, according to document doi:10.5194/amt-9-4181-2016.

The company is ISO 9001:2008 certified.

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Since 2002 Raymetrics has been designing and manufacturing atmospheric remote sensing systems for meteorological and other similar applications.

Today we are the world leader in the rising wave of remote sensing technology in operational and commercial sectors such as Meteorology, Aviation, Environmental Protection, Mining, Oil & Gas and Heavy Industry.



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