

## Eruption in Eyjafjallajökull

Status Report: 16:00 GMT, 13 May 2010

Icelandic Meteorological Office and Institute of Earth Sciences, University of Iceland

Compiled by: Steinunn S. Jakobsdóttir, Elín Björk Jónasdóttir, Björn Oddson, Sigrún Hreinsdóttir.

Based on: IMO seismic monitoring; IES-IMO GPS monitoring; IMO hydrological data; IMO weather radar measurements, web cameras, ATDnet – UK Met. Offices lightning detection system, NOAA satellite images, observations from aircraft and web-based ash reports from the public.

### Eruption plume:

Height (a.s.l.): Mainly 6 km / 20,000 ft, highest up to ~ 9 km / 30,000 ft. The wind is calm over the eruption site and unstable air south of it, which does affect the height of the ash cloud.

Heading: Southeast.

Colour: Grey.

Tephra fallout: Ongoing ashfall since 0600h reported from south of Eyjafjöll, Berjanes, Drangshlíð and Skarðshlíð. Ashfall from midnight until morning at Skógar. The ash is somewhat finer today than yesterday.

Lightning: Twenty lightning were recorded on the ATDnet since last night.

Noises: No reports.

Meltwater: Low water discharge at Gígjökull.

Conditions at eruption site: The upper part of the ash cloud and the lower part of Eyjafjallajökull could be seen from the aircraft, the rest was in clouds. The top of the ash cloud was at ~ 5 km / 17,000 ft. No great changes seen in Gígjökull.

Seismic tremor: Similar to previous days.

Earthquakes: At around 1600h 4 earthquakes were measured beneath Eyjafjallajökull, all of them were located at shallow depth.

GPS deformation: Horizontal displacements towards the center of Eyjafjallajökull volcano and subsidence.

Overall assessment: No major changes are seen in the activity. The ash plume has increased since yesterday. Presently there are no indications that the eruption is about to end.