

## Eruption in Eyjafjallajökull

Status Report: 15:00 GMT, 15 May 2010

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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 and web-based ash reports from the public.

### Eruption plume:

Height (a.s.l.): Mainly ~ 6 - 7 km / 21,000 - 24,000 ft, occasionally reaching 8 km / 27,000 ft.

Heading: Southwest and later south.

Colour: Grey.

Tephra fallout: Ashfall reported south of Eyjafjallajökull and ashdrift southeast of Eyjafjallajökull.

Lightning: Some 30 lightning strikes were recorded on the ATDnet during the last 24 hours.

Noises: No reports.

Meltwater: Low water discharge at Gígjökull.

Conditions at eruption site: No flight observations, but according to web cameras and instruments there are no major changes.

Seismic tremor: Similar to previous week.

Earthquakes: An earthquake swarm started beneath Eyjafjallajökull just before midnight. In the period between 23:54 and 02:45, more than thirty earthquakes were located at depth greater than 20 km and magnitude less than Ml 2. A few more earthquakes were detected until morning.

GPS deformation: Horizontal displacements towards the center of Eyjafjallajökull volcano and subsidence. Some irregular movements are seen in the height of the stations closest to the volcano.

Overall assessment: No major changes are seen in the activity, the ash cloud is slightly higher than yesterday. Presently there are no indications that the eruption is about to end.