

## Eruption in Eyjafjallajökull

Status Report: 17:00 GMT, 16 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 ~ 7 - 9 km / 24,000 - 30,000 ft.

Heading: Southeast and east-southeast. There wind is calm over the volcano, with wind speed ~10 m/sec at height over 7 km / 24,000 ft.

Colour: Grey.

Tephra fallout: Ash fall reported southeast of Eyjafjallajökull, from Skógar to Pétursey on Mýrdalssandur.

Lightning: More than 150 lightning strikes were recorded on the ATDnet during the last 24 hours. From 8 am to 11 am this morning 54 lightning were detected.

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: Three small earthquakes were detected beneath Eyjafjallajökull during the night. They were of shallow, intermediate and deep origin. A few shallow earthquakes occurred around 3 pm.

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

Overall assessment: No major changes are seen in the activity. The ash cloud has been of variable height the last days and is higher today than yesterday, influenced by the calm weather. Unusually many lightning have been detected. Presently there are no indications that the eruption is about to end.