

**Eruption in Eyjafjallajökull – status report 25 April 2010 at 1800
from Icelandic Meteorological Office and Institute of Earth Sciences, UoI**

Compiled by: MTG / SSJ

Based on: IMO seismic monitoring, IES/IMO GPS monitoring, IMO river gauges, information from local police and IES geologists inspection of tephra

Eruption plume:

Height(a.s.l): Unknown, not seen above cloud cover at 5.3 km.

Heading: NW

Colour: No information

Tephra fallout: Minor (light fallout detected at two farms 10 km NW of vents)

Meltwater: 100-120 m³/s, based on gauge at old Markarfljót bridge and a rough estimate of base flow.

Conditions at eruption site: Overall activity similar as yesterday. Eruption seen from west in the morning - north crater still active. External water has not affected vent activity much since 18 April. Geologists field observations (2-10 km from vents) show that explosivity is magmatic and that the tephra produced since 18 April is much coarser than during first four days. Explosions heard at Fljótshlíð, 10-15 km NW of vents. Meltwater discharge suggest similar lava activity. Processing of data obtained yesterday shows that lava had advanced 400-500 m northwards from crater, forming an ice depression extending some 700 m from vents.

Seismic tremor: Magnitude similar to what it has been over the last few days.

Earthquakes: An earthquake of magnitude 1.4 occurred under NE-part of Eyjafjallajökull this morning.

GPS deformation: Indicates very minor subsidence towards the center of the volcano.

Magma flow: No observations today but total magma flow considered similar as yesterday (20-40 tonnes/s).

Overall assessment: Magma flow rate has remained at similar level over the last few days while plume activity is slowly declining. Lava continues flowing towards north. No signs of melting or meltwater discharge towards south. No signs of termination of eruption.