



**NATIONAL COMMISSIONER OF THE ICELANDIC POLICE**  
DEPARTMENT OF CIVIL PROTECTION AND EMERGENCY MANAGEMENT



**THE SCIENTIFIC ADVISORY BOARD OF THE ICELANDIC CIVIL PROTECTION**

**Date:** 20.09.2014      **Time:** 09:30      **Location:** Crisis Coordination Centre, Skogarhlid

**Regarding:** Volcanic activity in the Bardarbunga system.

**Attending:** Scientists from Icelandic Met Office and the Institute of Earth Sciences University of Iceland along with representatives from the Icelandic Civil Protection and the Environmental Agency of Iceland.

**Main points**

- Volcanic eruption in Holuhraun
- Air quality
- Scenarios

**Notes**

- The volcanic eruption in Holuhraun continues with similar rate as last few days.
- The subsidence of the Bardarbunga caldera continues with same rate as before.
- Big earthquakes are still detected in the Bardarbunga caldera. Since noon yesterday there have been 3 earthquakes bigger than M3,0. The biggest one was measured M5,1 at 01:10 tonight. Smaller earthquakes were detected in Dyngjajokull glacier and in north part of the dyke.
- GPS monitoring continues to show subsidence in the Bardarbunga caldera and crustal movements indicate that the volume of magma in the dyke is still slightly increasing.
- No change was detected in water monitoring.

**Air quality:**

- SO<sub>2</sub> pollution has been reported around Iceland this morning but no serious incident has been reported. People are encouraged to familiarise oneself with instructions from health authorities. Further instructions can be found below.
  - A prediction from the Icelandic Met Office: Pollution from the eruption is mostly expected in the east and southeast but haze connected to the eruption is likely in a larger area. A map showing the gas forecast can be found on the web page of the Icelandic Met Office [www.vedur.is/vedur/spar/textaspar/oskufok/](http://www.vedur.is/vedur/spar/textaspar/oskufok/)
- The Icelandic Met Office has also opened a web page where people can report if they have detected gas pollution. A link to the page can be found on the Icelandic version of the web page under [Skrá mengun](#).
- Instructions:
  - People who feel discomfort are advised to stay indoors, close their windows, turn up the heat and turn off air conditioning. Use periods of good air quality to ventilate the house. Measurements of air quality can be found on the webpage [www.loftgaedi.is](http://www.loftgaedi.is) The Meteorological Office issues forecast on its web-page and warnings if conditions change to the worse.
  - Instructions from the office of the Chief Epidemiologist and The Environment Agency can be found on their web-sites [www.ust.is](http://www.ust.is) and [www.landlaeknir.is](http://www.landlaeknir.is)
  - The Icelandic Met Office will publish forecasts for sulphuric gases dispersion on the web and in the national radio. It will also be endeavored/sought to broadcast the forecasts on national television.
  - The Environment Agency has put up two new SO<sub>2</sub> measuring stations in Leirubakki in Landssveit and in Vopnafjörður. Data from these stations can be found on [www.loftgaedi.is](http://www.loftgaedi.is)



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- The Department of Civil Protection and the Environmental Agency has bought 40 new handheld measuring equipment that will be distributed around Iceland with density in the Eastfjörds.
  - Information and any questions on air pollution can be sent to The Environment Agency through the email [gos@ust.is](mailto:gos@ust.is). The Environment Agency is especially looking for information from people who have been in contact with high concentrations of gas; where they were, at what time it happened, how the gas cloud looked (colour and thickness of the cloud) and how they were affected by it. In the near future, there will be a page on the IMO's webpage for this type of information.
- Three scenarios are considered most likely:
    - The eruption on Holuhraun declines gradually and subsidence of the Bardarbunga caldera stops.
    - Large-scale subsidence of the caldera occurs, prolonging or strengthening the eruption on Holuhraun. In this situation, it is likely that the eruptive fissure would lengthen southwards under Dyngjujokull, resulting in a jokulhlaup and an ash-producing eruption. It is also possible that eruptive fissures could develop in another location under the glacier.
    - Large-scale subsidence of the caldera occurs, causing an eruption at the edge of the caldera. Such an eruption would melt large quantities of ice, leading to a major jokulhlaup, accompanied by ashfall.

Other scenarios cannot be excluded.

### **From the Icelandic Met Office:**

The Aviation Colour Code for Bardarbunga remains at 'orange'.

The National Commissioner of the Icelandic Police, Department of Civil Protection and Emergency Management  
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