Radar observations at the Eyjafjallajökull eruption site
15-19 April 2010

Institute of Earth Sciences and the Icelandic Coast Guard

Above: Eyjafjallajökull 19 March 2010 (picture taken by Eyjólfur Magnússon)
Radar images acquired by the Icelandic Coast Guard, 15 April, between 5:00 and 6:00 PM. Glacier margin (blue) and surface contours from 2004 (© SPIRIT project/CNES 200X/Spot Image)

Cauldrons in the glacier surface melted by the eruption

A hole in the ice surface above the subglacial flood course

Flood courses on the glacier surface
Radar images acquired, 15 April, around 8:00 PM shortly after flood burst down from Eyjafjallajökull towards north.

The flood water broke new holes in the ice surface.

Cauldron in the glacier surface enlarged.
Radar images acquired 16 April, around 4:15 PM

Cauldrons in the glacier surface within the crater enlarged further by the eruption

Holes formed by the flood water enlarged
Radar images acquired 18 April, between 1:00 and 3:00 PM

Collapsed roof of a subglacial flood channel

~60 m
~140 m
Radar images acquired 19 April, 10:30 AM

Little changes in size of cauldrons at the eruption site since 16 April

The roof of subglacial flood channel draining water towards south started to collapse