

Eruptive activity at Asamayama in February 2009

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The eruption occurred in Asamayama on February 2, 2009. Volcanic bomb reached as far as about 1km from the crater, volcanic smoke rose up to about 2000m in height, and the volcanic ash reached the southern part of Kanto region. The eruption that disperses volcanic bomb is since November 14, 2004.

The small tremor was observed with the seismograph at the same time as the eruption's beginning (01:51), and the amplitude had increased from 02:00 to 02:10. Infrasonic wave of about 7Pa is observed in the point of the south about 8km from the crater. Pulsive wave was not observed in this eruption, and the amplitude had increased gradually.

The crustal movement of going up in the west has been observed with the tilt-meter point of the north-northeast from the crater at about 2.5km 24 hours before the eruption. Moreover, the BH type earthquake (B type earthquake with high frequency) increased delaying from the crustal movement about five hours. These phenomena were the one seen before the eruption occurred among a series of eruptive activities that began in September, 2004, and JMA issued volcanic warning (volcanic alert level 3), and it called for vigilance. The volcanic ash was observed at a southern part of the Kanto region left from Asamayama at 200km, and JMA issued the volcanic ash-fall forecast after plume reached 2000m along with this eruption.

A very-small-scale eruption occurred on August 10, 2008 six months before this eruption. On early August the number of earthquakes increased in addition, and the amount of plume increased, too.

In this lecture, we will report the outline of the eruptive activity at Asamayama in February, 2009 including the volcanic activity from 2008 on the basis of the various observations.