

Seismic activity at southern part of Kusatsu-Shirane volcano

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We examined seismic activity at southern part of Kusatsu-Shirane volcano with our seismic network supported by temporary stations. We have observed seismic activity of the volcano since 2001. Currently six stations are concentrated within about 1 km from the main crater lake, Yugama. Based on past seismic network, Mori et al. (2006) pointed out two seismic clusters, one at Yugama and the other at Ainomine, an old volcanic cone 1.5 km to the south of Yugama. Mori et al. (2006) also pointed out that seismic activity at the latter zone is comparable to the former. There used to be a station at Ainomine till few years ago, and current capability of event detection is relatively low. In response to the crustal deformation event on May 27, 2011, we constructed a temporal seismic station to the south of Ainomine. The station is equipped with a L-4C three-component seismometer by Mark Products Corporation and LS-7000 data logger by Hakusan Corporation. Seismic data are stored on site and periodically collected. Collected data are then combined with our data of real time seismic network. Now seismic events are detected based on variation of seismic amplitude.