

SVC063-17

Room: 201B

Time: May 24 14:45-15:00

## The first seismic survey round in Sakurajima Volcano

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The seismic survey round has been started on December 2009 in Sakurajima Volcano, in order to detect magma movement or constraint its flux towards the active craters.

Volcanic explosion at Showa Crater have been enhanced recently since its revival on June 2006. Explosion at Showa crater have been counted up to 734 times during November 2008 to December 2009 by JMA. The volcanological interests are those when magma moves and amount of magma supply.

The first phase of the seismic survey round was carried on December 2009 with including 263 temporary stations. The stations were spreaded carefully to reconstruct the seismic lines of the previous experiment on November 2008. Seven of eight shotpoints and 149 of 221 temporary stations were well reconstructed at their very point and 67 stations were reconstructed within the acceptable range of the location. Difference of the location between two experiments were about 0.36m. Good data were obtained at the 129 reconstructed station. Peak amplitudes fell within the range of 0.6 ot 2.9 times for those of the previous experiment.

The details of the rounded experiment will be presented.

Keywords: Sakurajima Volcano, seismic survey, Lapsetime-profiling