## Attenuation Structure beneath the Ontake Volcano

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We report the results of the temporal seismic observation around the Ontake volcano in 2004.

There are 4 groups of the seismic activities around the Ontake volcano. There is a small shallow activity just beneath the mountain and the low frequency events occurred at the depth around 40 km suggesting the volcanic activity. At the southeastern to northeastern foot of this mountain, the prominent swarm activity succeeds since 1976. In 1984, the M6.8 earthquake occurred in the swarm area. In At the time of the volcanic eruption in 1979, we observed no seismicity change in the swarm, Though there seems no relation between these 2 seismic activities and the volcanic activity apparently, the problem remains that the mechanism or the tectonic structure which caused these activities as a chain of succeeding tectonic process.

In this temporal seismic observation, we aimed to get the data that indicate the

inhomogenous structure beneath the Ontake volcano such as wave attenuation structure. From June to December, we developed 11 temporal observation sites surrounding the mountain in addition to the 11 telemetered observation stations around the volcano. In the analysis, we used the seismic wave data that passed beneath the volcano.

As a result, we detected the wave attenuation structure beneath the Ontake volcano though the size of the attenuation area is not so large.