

## Change in volcanic activity at Ontake volcano in relation with seismicity

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It is effective to monitor the volcanic activity at Ontake volcano to observe the seismicity change around the Ontake volcano such as swarm and shallow events just beneath the summit.

The small eruption occurred twice after the eruption of the Ontake volcano in 1979. The activity of the shallow volcanic earthquakes became high just beneath the summit at the time of these eruptions, and until now, relatively high activity succeeds after the small eruption in 2007 as shown in figure. Since 1976, the prominent swarm activity succeeds beneath the southeastern foot of the Ontake volcano and later, it expands to the east and to the north of the mountain. But there were almost no swarm events within the summit area of 6-7 km in diameter. No change in swarm activity was observed at the time of eruption in 1979. The change in swarm activity seems to correlate with the activity of deeper events that occurred beneath the Ontake volcano.

Activity change in shallow volcanic events just beneath the summit of the Ontake volcano.

LEFT: Seismic distribution before the small eruption in 2007.

RIGHT: Seismic distribution after the small eruption in 2007.

