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Seismic swarm in the Kirishima volcanic group in 1999

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Seismic activity of Shinmoe-Dake, Kirishima volcanic group increased in November 1999. This activity was followed by volcanic tremor in December, but no eruption occurred. Seismic activity started at the top of the 'Deep Low Resistivity Region', about 3 km beneath the crater, and rose the shallower part. The source of the volcanic tremor was determined within 700 m in depth from the crater bottom, which corresponds to the 'Shallow Low Resistivity Region'. However, total number of the earthquakes and duration time of the tremor was significantly less than the previous case. Geomagnetic and EDM observations indicate no anomalous change, which was frequently found in the previous case. This result suggests that supply of magma or volcanic gas from the DLRR was not so large.