

Volcanic Tremor Array Observation Using Three Components Seismometers at Iwate Volcano (2)

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In order to clarify source region and mechanism of volcanic tremors which are occurring around Iwate Volcano in northern Honshu, Japan, we deployed two arrays of seismometers at northern area of the volcano. Phase Velocities of observed volcanic tremors were estimated by three-component spatial auto-correlation analysis. As a result, the predominant frequency of observed volcanic tremors was 2Hz, Phase velocities of up-down component of volcanic tremors were 1200 to 1800 m/s, those of transverse component were higher than 2400 m/s. These results imply that observed volcanic tremors consisted of body- and surface- waves.