

## The relation between amount of tilt change preceding the eruption and the volume of tephra at Shinmoedake Volcano

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The eruptive activity at Shinmoedake volcano began on January 19, 2011, and shifted magma eruption on January 26. Preceding these eruptions, characteristic tilt changes were detected by tilt-meters about 3km from crater. We report the relation between amount of tilt change preceding eruption and the volume of tephra, air wave amplitude.