

Japan Geoscience Union Meeting 2011

(May 22-27 2011 at Makuhari, Chiba, Japan)

©2011. Japan Geoscience Union. All Rights Reserved.



SVC070-P36

Room:Convention Hall

Time:May 23 16:15-18:45

Tilt change preceding the eruption at Shinmoedake Volcano

Koji Kato^{1*}, Kazuya Kokubo², Yoshiaki Fujiwara², Shin'ichi Matsusue¹

¹Japan Meteorological Agency, ²Japan Meteorological Agency

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 character of tilt change preceding eruption at Shinmoedake volcano.

Tilt changes preceding eruptions showed the sense of ground-up toward the north-west side of the station located SW flank of volcano and the sense of ground-up toward the north side of the station located SSE flank of volcano. These tilt changes started several minutes-10 hours before eruptions and the amount of tilt changes were 0.04-0.14 maicro radian.

Keywords: Shinmoedake, Tilt Change