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Migration of tremor locations associated with the 2008 eruption activity at Meakandake volcano

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We estimated locations of three tremor sequences occurred during the 2008 activity at Meakandake volcano, using the observed RMS amplitude at each station. While the tremor on Sep. 29(tremor A) were located about 1.5km far from the erupted crater, the continuous tremor on Nov. 18(tremor C) were located close to the erupted crater. The tremor on Nov. 16(tremor B) were divided into three phases by the temporal variations of amplitude. The first and second phases were located at similar points to that of tremor A, while the location of the later third parts was similar to that of tremor C. Locations are migrated systematically from far to close the erupted crater. In addition, locations of tremor B were changed in time, which implies the migration of volcanic fluid, as suggested by other geophysical observations. These two migration phenomena may be important for monitoring of volcanic activities as well as studies on the mechanism of volcanic eruption.