

Hybrid method to estimate discharge rate of volcanic ash by using seismic and ground deformation data

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Eruptive activity at the Showa crater resumed in June 2006 and the explosivity has increased since autumn in 2009. A method to estimate weight of volcanic ash ejected from the crater is proposed by using deflation of volcano associated with explosive eruptions and seismic amplitude (2-3 Hz) of volcanic tremor generated by non-explosive but continuous eruptions.

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