

## Traces of Secondary Explosion Observed on Mukaiyama Volcano in Izu-Niijima Island

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I clarified a history of volcanic activity at Mukaiyama volcano by setting up the volcanic geological stratigraphy and draw a geologic map by studying aerial photographs and geological survey. Five pit craters are seen in lava surface part. The altered pyroclastic deposits are distributed in surroundings in the craters, which are considered that derived from pit craters formation. A lot of fragments thought to be spiracle origin exists along the coast Mukaiyama volcano right under. The fragments consisted of rounded chilled blocks which have characteristics of spiracle deposits. These geological and topographical characteristic show that the secondary explosion activity was caused repeatedly by the interaction of the high temperature lava and the sea water after erosion of the lava.