

SOME NATURES OF THE EXPLOSIONS OF
SAKURAJIMA VOLCANO FOLLOWING THE
ASCENT OF LAVA

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Abstract.

A remarkable earthquake swarm was recorded by the seismometer at Sakurajima Volcanological Observatory from may 25 to 26, 1967, and on th 23 th of this month the fact that 40—50 tons of lava pool had formed at the bottom of Minamidake crater was confirmed by the airplane observation. From may 29 to June 28, a series of volcanic explosions by which all this lava was ejected, took place.

Same phenomenon was occurred once more from July 22 to Augst 10, 1967.

Some natures of these series of volcanic explosions are summerized as follows:

1. On three or four days after the lave pool is formed, the series of volcanic explosions begins, and it last till the lava pool is disappeared.
2. Ratio of the energy of air-vibration to that of earthquake, which were discharged by a volcanic explosion, is small at the beginning of series, but as the series goes on it becomes larger and larger.
3. As for the time interval of the succesive explosions, more 60% of all is shorter than 24 hours.