

Geological Study on the Ojika Jima Monogenetic Volcano Group-Internal Structure and Formation Process of Cinder Cones-

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The last step of formation of monogenetic volcano is the outflow of lava flow. The modes of lava outflow can be divided into two modes; overflow from crater rim and outflow using the dike intrusion. The difference between two modes depends mainly on the degree of welding around the vent. For the case of strong welding, the mode was the overflow from the crater rim, and for the case of weak welding the mode changed to overflow using dike intrusion. If the degree of welding was enough weak, the cone collapse occurred using the branched dike system.