

Magnetic petrology of Meiji lava at Suwanosejima volcano, southwest Japan

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Suwanosejima volcano, which is one of the most active volcanoes in Japan, erupted in 1884-1885 and effused andesite lava (Meiji lava) in its eastern flank. Meiji lava shows smooth and ropy surface, like Pahoehoe lava. Lava tubes are also observed. They indicate that Meiji lava was low viscosity. In order to clarify the 1884-1885 activity, we carried out magnetic petrological analyses. As a result, it was found that characteristic magnetic behaviors markedly differ among samples with different geological occurrences and especially high magmatic temperature was suggested.