

## Distribution and occurrence of the pyroclastic flow deposit of the 2011 eruption of Shinmoedake, Kirishima volcano group, Southern Kyushu, Japan

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We investigated occurrence of the pyroclastic flow deposit of the 2011 Shinmoedake eruption about 5 years later. During a subplinian eruption, very small pyroclastic flows descended down on the south-western slope up to 800 m long, with 30 m wide. The volume of the deposit is estimated to be about 20,000 m<sup>3</sup>. No splintered stumps were found on the course of the flow, so it suggests that the speed of the flow was slow. The pyroclastic flow was estimated to be generated by a small-scale partial collapse of the subplinian eruption column.

Keywords: Kirishima volcano group, Shinmoedake, 2011 eruption, pyroclastic flow, sub-plinian