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Secondary sediment movement phenomena observed after the 2011 eruption of Mt. Kirishima

Takao Yamakoshi^{1*}, Hiroshi Kisa¹, Tadanori Ishiduka¹

¹Public Works Research Institute

The 2011 eruption of Mt. Kirishima provides volcanic ash deposit mainly in the south-east direction from the Shinmoe peak. The southern slope of the Takachiho peak is also covered by thick volcanic ash deposit. After several rainfalls, thin black marks were found through the helicopter survey on the southern slope. The field surveys were conducted and revealed that they are a kind of debris flow deposit, but they didn't reach to the downstream and stopped at the point nearly 1,000 m a.s.l.

Keywords: debris flow, volcanic ash