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Time:May 24 16:15-18:45

Pyroclastic flows and lahars at the time of the 2010 eruption of Mount Merapi, Indonesia

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On October 26, 2010, Mount Merapi has resumed eruptive activities after the 4-year dormancy. Pyroclastic flows ran down to the western and southern direction. Especially, pyroclastic flows having occurred in the beginning of November, 2010 were very large and have reached up to 15 km from the summit of the volcano. On the other hand, lahars have also occurred in almost all the rivers in the western and southern directions instead of Gendol River where the extra large pyroclastic flows have occurred. The huge amount of pyroclastic flow deposits remained unsaturated and hot even after one-month has passed since the deposition of the pyroclastic flows. Field measurement shows that some hot-spots which is hotter than 100 degree in Celcius still existed on the deposit. The lahar generation in the Gendol river must occur in near future, but the timing may be later than in other rivers.

Keywords: Mount Merapi, Pyroclastic flow, Lahar