

Characteristics of lahar and avalanche from snowmelt in Mount Fuji

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In Mount Fuji, a large isolated mountain, mudflow disasters occur subsequent to major snow avalanches. Such avalanche and related phenomenon, in other words “slush lahar (Anma, 2007)” is found to be caused by contraseasonal warm weather with heavy rain of extratropical low in the Sea of Japan (Hirose, 1970). In addition, the climatic condition in case of the avalanche, it is clarified from the weather data of the summit and the piedmont area. This presentation shows a tendency to appearance of these pressure pattern based on long-term data in Japan Meteorological Agency. Furthermore, the author tries to explain the tendency of the collapse location and time of these avalanches, based on the data of field survey and seismic data of NIED in Mount Fuji.

Keywords: slash avalanche, volcanic mudflow, yukishiro, spatiotemporal trend, extratropical cyclone, ice layer