

Breaking-off of hanging glaciers at Mt. Langtang-Lirung in Nepal

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On 25 April 2015, an earthquake (M7.8) occurred at Gurkha region located northwest of Kathmandu, the capital of Nepal. On 12 May, an earthquake of M 7.3 occurred at 80 km northeast from Kathmandu. Due to this series of large earthquakes, slope failure events (ice avalanche, snow avalanche, snow-rock avalanche, rock avalanche) occurred frequently in snow mountain area of the Himalaya. In Langtang valley, a huge snow-rock avalanche caused more than 100 victims in Langtang village. We investigated the characteristics of breaking-off from hanging glaciers around Mt. Langtang-Lirung using satellite data and digital aerial images in 2015 and 2018.

Keywords: hanging glacier, breaking-off, Mt. Langtang-Lirung, Gurkha earthquake