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GLOF related topography and sediment and recovery of devastated valley

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Rarely phenomenon, outburst flood from dam breach characterized by rapid surge water in the valley differs from common flush flood in heavy rain. GLOF is also one of the typical dam breach event. Hence, the dynamics of GLOF related debris flow and consequent change of surrounding environment have been poorly understood.

There are many valuable data and evidence in the devastated valley at the downstream of breached glacier lake, that can use for estimation of debris flow dynamics. We could get field information in 1950's and 60's GLOF and 1994 GLOF in Bhutan, 1998 GLOF in Nepal and some glacial hazard in middle 20th century in northern side of Tibet/Bhutan border area. This presentation will introduce the information about topographical and sedimentological feature, and recovered vegetation in devastated valley.

Keywords: debris flow morphology, bank erosion, sediment deformation, recovery of vegetation