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Resent glacier variation in Bhutan Himalaya

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The year of melt away of Himalayan glaciers was disputed. However, the first thing to do is an acquirement of reliable data of glacial ice behavior from field survey and objective viewpoint. The photographs of glacier in the north central Bhutan have been taken by some mountaineering and glacier/glacial lake surveys in 1980's and 90's. Digital picture which were taken from same angle of previous photographs were obtained at some glacier during the reconnaissance survey in 2009. Furthermore, the profile of glaciers can be measured by photogrammetric survey. In this presentation, we introduce distance and volume of glacier snout retreating and various glacier in Mangde Chu (Chu: river) headwater.

Keywords: glacier retreat, photogrammetric survey, repeat photography