

Characteristics of the basin topography of glacial lake: a case of the Bhutan Himalayas

*Jiro Komori¹

1. Teikyo Heisei University

This presentation will introduce the characteristics and its topographical implication of glacial lake in The Bhutan Himalayas, based on a research and international cooperation project in 2009 –2012. The project title is ‘Study on Glacial Lake Outburst Floods in the Bhutan Himalayas’ (Principal Investigator: Prof. Nishimura, K., Nagoya University).

These surveyed lakes have deepest part at upper lake basin (opposite side of outlet part). In addition, some bathymetric map show ridge-like topography which is submerged end-moraine. This presentation will highlight a comparison of these bottom topography and surrounded land shape, and discuss the determination of the GLOF risk.

Keywords: bathymetric survey, mountain glacier, moraine, hazard assessment, global warming, GLOF