

The big melt of the perennial snow patches and glaciers in the autumn of 2016 in the northern part of the northern Japanese Alps

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Under the influence of significant little snow in 2015/2016 winter, the perennial snow patches and glaciers in the northern Japanese Alps melted remarkably in 2016 autumn. We report the area and thickness of the Tsurugisawa, Shirouma and Kuranosuke snow patches and Gozenzawa glacier in 2016 autumn based on field observation, aerial photos analysis and ground penetrating radar soundings.

Keywords: glacier, perennial snow patch, the northern Japanese Alps, unmanned aerial vehicle, ground penetrating radar

