The thickness and flows of an ice mass of the Kakunezato perennial snow patch, Mt. Kashimayari, the northern Japanese Alps

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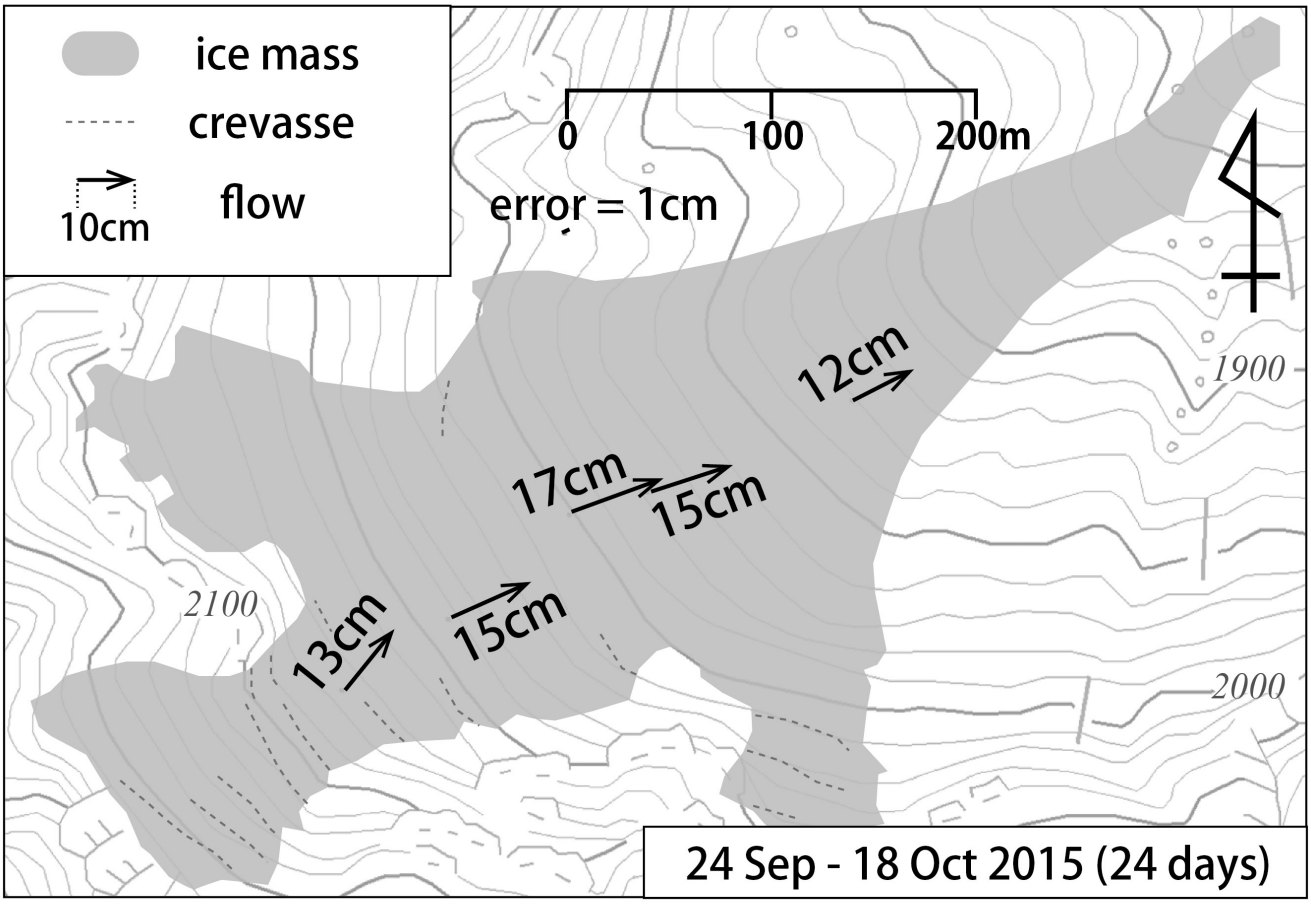
We describe field measurements (ground penetrating radar (GPR), geodetic survey and crevasse observation) to provide new information on the surface flow velocity, the ice thickness and the snow density profile of the Kakunezato perennial snow patch in Mt. Kashimayari (2889 m asl) in the northern Japanese Alps, central Japan.
We found the thick ice mass (over 40 m in thickness) in the central part of the Kakunezato perennial snow patch. The snow density is > 820kg/m^3 below 1 m in depth from the surface in October 2015. The ice mass had flowed 12 - 17 cm / 24 days in the autumn of 2015. Thus, we regard the snow patch as small active glacier.

Keywords: glacier, perennial snow patch, flow, Japanese Alps



The flow of the Kakunezato perennial snow patch

