

Detailed topographic maps of rock glaciers in the Japanese Alps by using Photogrammetric Workstation

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Detailed topographical maps of rock glaciers in the Japanese Alps were constructed by using a Leica Photogrammetric Workstation SD3000 (digital stereo plotter) in order to clarify the geomorphic features of rock glaciers. These maps represent a furrow and transverse ridge topography with a relief of 1-2 m on rock glacier surface, which was considered as flow structures of a rock glacier associated with the deformation of permafrost. These maps also represent an enclosed hollow on rock glaciers, which was produced by the melting of ice-rich permafrost.