

TITLE: The distribution and hydrological significance of rock glaciers in the Nepalese Himalaya.

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Highlights:

- We present the first rock glacier inventory for Nepal, derived using Google Earth
- Over 6000 rock glaciers, covering an estimated 1371 km², were identified.
- Nepalese rock glaciers contain an estimated water volume equivalent of 20.90 km³.
- Nepalese rock glacier to ice glacier water storage ratio is 1:9.
- Under future climate warming, Nepalese rock glaciers are hydrologically valuable.