

Geomorphologic approach

Optical imagery and LiDAR-derived hillshades

Rock glaciers
 1. Detection
 2. Delineation
 3. Dynamic classification: intact; relict.

Geomorphologic inventory

Newly-detected rock glaciers

InSAR-based kinematic approach

Sentinel-1 wrapped interferograms

Moving areas
 1. Detection
 2. Delineation
 3. Classification:
 1-3 cm yr⁻¹
 3-10 cm yr⁻¹
 10-30 cm yr⁻¹
 30-100 cm yr⁻¹
 > 100 cm yr⁻¹

Moving area inventory

Rock glaciers
 Kinematic classes:
 moving, cm yr⁻¹
 moving, cm to dm yr⁻¹
 moving, dm yr⁻¹
 moving, dm to m yr⁻¹
 moving, m yr⁻¹ or higher
 Not moving
 Undefined

Rock glacier InSAR-based dynamic classification

Data integration (decision rules)

	Moving	Not moving	Undefined
Intact	Intact	Relict	Intact
Relict	Intact	Relict	Relict
New	Intact	NA	NA

