6 Vectors of movement on an active rock glacier

Solutions:

1. The direction of the indicated vectors is in most cases orientated in a right angle to the contour lines. This means that the movement has a downslope direction due to gravitation.

2. The movement rates are in the order of magnitude of a few decimeters per year only (on glaciers usually meters!). The mean value of the period 1954-75 is some 25 cm, of the period 1975-93 some 15 cm.

3. The highest values of movement occur along the longitudinal axis of the rock glacier and in the central part, respectively. At the margins and above all in its uppermost parts the rock glacier moves most slowly.