

ABSTRACT

Present researches of ploughing blocks deal with a recent blocks' activity issue and with causes of movement of the blocks downslope. Research at Čertova meadow has measured changes of boulders' locations in period 2009 – 2012, processes of undersurface temperature and dependence of movement on mass of the boulder and snow cover layout.

Triennial research didn't prove the movement of boulders dependence on mass of boulder, however it showed dependence depth into which boulders are embedded in the soil and height of the boulder above terrain. Annual changes of boulders' movement were irregular. The overall assessment in period 2009 – 2012 showed that more than half of the boulders were in correspondence with vertical and horizontal direction of movement downslope. For confirmation of the movement of boulders it is necessary to carry out long-term measurement.

Key words: ploughing blocks, periglacial environment, East Krkonoše Mts.