

## **Abstract**

The Northwestern part of the Příhrazská platform is known for its processes, the first scientifically studied movement occurred here in 1926 and had catastrophic consequences. This work deals with the evaluation of the selected continuous slope movements in the northwestern part of Příhrazská platform and builds on previous measurements. The measured movements are compared with meteorological data, with the surrounding hydrogeological borehole data, and compared with other monitoring site in the vicinity. In the second part, the work focuses on clarifying the problem of the increased susceptibility of the monitored rock tower for weathering and comparison of the properties of sandstone material from this tower with surrounding sandstones from the vicinity and other localities. Attention is especially paid to the influence of the biological crusts, whose significant influence is confirmed. For the investigation field and laboratory methods were used in combination with the use of computer programs.