

This thesis deals with occurrence, conditions and character of slope deformations in the Protected landscape area (CHKO) Český ráj. This area is typically formed by sandstones, marls and claystones. Together with tectonic structures and lateral erosion of the Jizera River, they form suitable conditions for slope movements such as rockfall, sliding etc. With help extensive use of the scientific literature, character of study area as well as general conditions for the development of slope movements were described, and their typological classification was established. Next part of the thesis includes the chapters on the methods of research, and a description of the preliminary field research of the model localities. Furthermore, an analysis of causes of the slope movements using the data on climate from the stations of Czech hydro-meteorological institute was performed. Finally, the results are discussed with the referenced sources and conclusions to the topic are formulated.

Keywords: CHKO Český ráj, slope movements, slope deformations, tectonics, lateral erosion, land-slide, rockfall, Lužický fault