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The purpose of these multidisciplinary studies is to understand the interaction between human occupation and the environment on the borderland between Pomerania and Great Poland the early Middle Ages, based on data acquired from research in Santok stronghold (state. 1). Such proceedings on the one hand clearly shows process, evolution of natural landscape in the region, which can not be achieved only on the basis of archaeological sources, on the other hand the nature and scale of anthropopression. Geoarchaeology is a discipline which in the assumption uses experience and research methods different areas of science: natural sciences and archeology.

In the presented project investigations will be carried out in geomorphology, geology, geochemistry, sedimentology, palynology and paleontology integrated with archaeological research. For the absolute dating of archaeological artifacts and natural samples will be used dendrochronological and radiocarbon analysis.

Such interdisciplinary cooperation expands our knowledge by providing not only completely new information on the past of the site, but also provoking new questions and issues, even realizes it. It should be noted that these are non-invasive or minimally invasive (drilling, surveys) methods of testing, which is extremely important in the context of the protection of our cultural heritage.

The main reasons for taking this research topics is the lack of comprehensive studies of natural landscape in borderlands zone of Great Poland and Pomerania, in Santok and inability to explain only with archaeological sources, the factors provoking a variety of activities the inhabitants of this the area in the past.

A detailed analysis of the natural conditions existing in this territory allow to answer basic questions about how the inhabitants of settlement and stronghold dealt with changeable waters levels and flooding from rivers, what temperatures governed in that period and what the vegetation surrounded them and also how the elevation was prepared at the confluence of rivers to fulfill the requirements a space favouring for settlement and where the soil available for cultivation were used by man. So important for the planned collaboration is cooperation, the current discussion of the results and solving problems together, so as to provide fully integrated approach to the studies.