

Abstract

One of the aims of my dissertation is to evaluate extreme rainfall – runoff conditions in elected experimental basins of Czech Hydrometeorological Institute in region of Jizerské hory in hydrometeorological period 2009. I would like to evaluate effect of different geographical conditions in particular basins in the course of one year in details analysis of individual events. I pay attention to define model territory and basic description of his physical – geographical condition in introduction of my dissertation. I describe conditions of model area detailed, because this conditions are involved in formation of extreme flowing situations. Summary of this dissertation build up base of my dissertation. Summarization of bibliography was exetuted assigned subject. I composed generate and rainfall - runoff conditions of rainfall – runoff situations in my dissertation. This teoretical knowledges were used in practical section where I showed detailed analysis of three chosen hydrological events. It regards floods, which include spring snow melting, flash flood rised to rainfall downfalls and generated rainfalls long-range character. I describe impact of different geographical conditions at base of obtained results in each of seven experimantal basins of Czech Hydrometeorological Institute in the course of runoff in Jizerské hory. Reader of this dissertation should be introduced model area in geographical point of view. He should be also able to made sense of issue extreme rainfall – runoff conditions. He can apply obtained teoretical knowledges to demonstrate real models of individual hydrological events, which were adapted in case of model area.