Abstract

Effect of climate changes on environmental is one of the most disputable actual issues. Project KLIMAHYD focused on the effect of hydraulic parameters changes in Hardrock. This theses, as a part of mentioned project, describes the conditions of small catchment Na Lizu, situated in Southern part of Czech republic in Šumava Mts. Piezometric level and temperature has been measured since december 2004 in 4 observation boreholes(2 deep, 2 shallow), in drainage and infiltration area. Values of hydraulic parameters were assessing from pumping tests (spring 2006).

These values were used for hydraulic model calibration. Model results proof first hypothesis: Water level in boreholes located in infiltration area react more extremely after decrease of recharge then water level in infiltration zone. The decrease of hydraulic gradient between infiltration and dreanige area and change in value of transmissivity represents the additional effect.