A Comparison between Water Years 2000 and 2001 for Groundwater in Bulgaria

Tatiana Orehova¹
National Institute of Meteorology and Hydrology, Department of Hydrology, Sofia, Bulgaria

Abstract. The purpose of the present contribution is to clarify the impact of the temperature and precipitation anomalies during Water Years 2000 and 2001 on the groundwater regime in Bulgaria. In general, most of aquifers in Bulgaria showed close relation with precipitation occurrence. Important reduction in spring discharges during the summer droughts in 2000 and 2001 was observed, as well as falling of groundwater tables. The reduction of winter precipitation during winter 2001 had strong negative impact on groundwater recharge. The flood precipitation sums in April and September 2000 did not show evident effect. Only for stations with daily data high values of spring flow were registered. The variations of the groundwater regime for different stations are similar, but alternations of wet and dry periods are not necessary synchronized between different regions in Bulgaria.

¹ National Institute of Meteorology and Hydrology
Department of Hydrology
Sofia, Bulgaria
Tel: 975 39 92 (468)
e-mail: tatiana.orehova@meteo.bg