

Future changes in flow patterns in Czech headwater catchments

May 21st, 2013



Studies on small-forested catchments showed that annual runoff is projected to decline in 2071–2100 compared to 1967–1990 by 10 to 30%. Impacts on the distribution of monthly flow are projected to be significant, with summer– autumn decreases of 30 to 95%, and winter increases of up to ~40%. Mean daily flows are estimated to decrease by ~70% from August to November.

The projected changes in runoff are due to seasonal redistribution of precipitation with expected summer decreases and winter increases, and evapotranspiration increase in the summer as a result of higher temperature and prolongation of the growing season.

Source: Benčoková et al., 2011. *Climate Research* 49: 1-15.

Photo: Chris Yunker (www.flickr.com)