



## **Climate change impact on mean annual river flows**

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Mean annual river flows are important for water management and water use. There exist very strong relations between hydrological droughts and hydropower production, which have significant economical and environmental considerations. Analyses of mean annual flow data for major Slovene rivers (Sava, Drava and Mura) have been derived for the last thirty or sixty years, respectively. Series of data analysed by ten years moving average and by dimensionless modular flows. In the past twenty years, significant trends in decrease of low flows have been identified. Similar trends have been observed on other European rivers (Danube and Rein) and US river (Colorado) and AMAZON River. The trends in mean annual temperature and annual sum of precipitation were also analysed and significant correlations were identified for the Slovene Rivers. The significant trends could be explained with land use changes and process of forestation.