

Climate Change Effect on Meteorological Parameters on the Example of Tbilisi City

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There are many different factors that effect climate formation of Tbilisi City: elevation, exposition of surrounding ridges, terraced structure of Tbilisi basin, hydroweb, vegetation cover and etc.

In Tbilisi City, there is marked a general trend of climate change typical for eastern Georgia. Air pollution caused by motor transport, massive cutting of green cover and construction of multi-storey buildings instead of them, uncontrollable landfills and etc. that has harmful effect on city climate.

According to the data of Tbilisi meteorological station observation avarage annual temperature (1965-2017) and total sum of annual precipitation (1966-2017) have changed with linear (by period of 50 years) approximate trend of Tbilisi annual temperature (1965-2017) and precipitation (1966-2017): annual temperature and precipitation increased from 12.0°C to 13.2°C and from 480mm to 500mm. Overall, Tbilisi annual temperature increased by 1.2°C/50y. and annual precipitation by 20mm/50y.