



## **PROJECTED CHANGES IN AIR TEMPERATURE AND PRECIPITATION CLIMATOLOGY IN TURKEY BY USING RegCM 4.3**

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In this work, projected future changes for the period of 2041-2070 in mean air temperature and precipitation climatology and variability over Turkey with respect to present climate (1971 to 2000) were studied. Regional Climate Model (RegCM4.3) of ICTP (International Centre for Theoretical Physics) was used for projections of future and present climate conditions. HadGEM2 (Hadley Global Environment Model 2) global climate model of Met Office Hadley Centre was downscaled for Turkey and its surrounding region. In this study, RCP 4.5 and RCP 8.5 emission scenarios were studied in order to investigate future changes of some climate variables in Turkey.