



CMIP5 Multi-Model Projection of the Changes in Air Temperature and Precipitation Climatology over the CORDEX-Australasia Domain under the RCP2.6 Scenario

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After the Paris Agreement, the studies considering the possible impacts of climate change with the high-level mitigation efforts have become very crucial. In this study, the multi-model ensemble approach was conducted in order to investigate the projected changes in air temperature and precipitation climatology over the CORDEX-Australasia domain based on the outputs of various coupled global climate models (GCMs) participating in the World Climate Research Programme (WCRP) Coupled Model Intercomparison Project (CMIP5). In this respect, seasonal changes were analyzed by using the fundamental climate variables (i.e. mean air temperature, minimum air temperature, maximum air temperature, and precipitation). Historical and RCP2.6 experiments of the GCMs were evaluated for baseline- (1986-2005), near- (2016-2035), mid- (2046-2065), and long-term (2081-2100), respectively.

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