

ASSESSMENT OF SIMULATED CHANGES IN AIR TEMPERATURE AND PRECIPITATION OVER THE MEDITERRANEAN REGION VIA MULTI-MODEL ENSEMBLE MEANS OF CMIP5 MODELS

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In this study, a multi-model ensemble mean approach was conducted in order to investigate the projected changes in near surface air temperatures and precipitation totals over the Mediterranean region. Among sixty seven different models of thirty modeling groups all around the world participating in the World Climate Research Programme (WCRP) Coupled Model Intercomparison Project (CMIP5), fourteen models were used. In this respect, we focused on two distinct scenarios (i.e. RCP4.5 and RCP8.5) for three different future periods (i.e. 2016-2035, 2046-2065 and 2081-2100) to examine accurately the foreseen changes in two fundamental climate variables (near surface air temperature and precipitation total) for the Mediterranean region.