



Validation of dynamically downscaled ERA40 and ERA-interim over Spain and mediterranean domain

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The State Meteorological Agency of Spain (AEMET) and the Spanish Harbour Authority (EPPE) have recently launched a project aiming to provide climate change scenarios of ocean variables over Mediterranean Sea and other ocean areas surrounding Spain. As part of this project, ERA40 and ERA-Interim reanalysis were downscaled using the RCA regional atmospheric climate model. We compare in this work precipitation and temperature variables from the original ERA40 and ERA-Interim data with the corresponding downscaled fields. Original and downscaled reanalysis are also validated against different observational data over the Mediterranean Area (GPCP, CMAP, CRU, etc) and over Spain (Spain02).