



Daily precipitation extremes over the Iberian Peninsula in a regional climate model simulation

J. Loa, W. CabosNarvaez and F. Álvarez-García

University of Alcalá, Spain (jorge.loa@alu.uah.es / 00 34 91 885 49 42)

We analyze daily precipitation extremes over the Iberian Peninsula in a regional climate simulation of the 44 year-long period of 1958-2001 with the REMO regional climate model. Comparison with station data shows that the model performs reasonably well for moderate events, but underestimates the occurrence of extreme values: the total amount of precipitation due to days with rainfall over the 95th percentile is much higher in the observations than in the model, for most of the stations. We also examine the impact that the NAO and the ENSO signals exert on both the observed and simulated extremes, by means of a composite analysis of years with different phases of these fluctuations.