

(a) Temperature										
Temporal period	Mean (K)			Mean Bias (K) vs SP02		Standard deviation (K)			Temporal Pearson's correlation vs SP02	
	SP02	WRF-ERA40	ERA40	WRF-ERA40	ERA40	SP02	WRF-ERA40	ERA40	WRF-ERA40	ERA40
Annual	286.3	285.0	285.8	-1.3	-0.5	0.6	0.5	0.7	0.91	0.98
Monthly	286.3	285.0	285.8	-1.3	-0.5	6.0	5.9	6.1	0.93	0.97
Winter (DJF)	279.3	278.9	278.8	-0.4	-0.5	0.9	0.9	1.1	0.87	0.96
Spring (MAM)	284.5	282.9	284.2	-1.6	-0.3	1.0	0.8	0.9	0.93	0.98
Summer (JJA)	294.2	291.7	293.8	-2.5	-0.4	1.0	0.8	0.9	0.91	0.98
Autumn (SON)	287.0	286.5	286.5	-0.5	-0.5	1.0	0.9	0.9	0.93	0.97
(b) Precipitation										
Temporal period	Mean (mm)			Mean Bias (mm) vs SP02		Coefficient of variation (%)			Temporal Pearson's correlation vs SP02	
	SP02	WRF-ERA40	ERA40	WRF-ERA40	ERA40	SP02	WRF-ERA40	ERA40	WRF-ERA40	ERA40
Annual	536.8	760.8	398.7	+224.0	-138.1	17.6	23.6	35.2	0.63	0.56
Monthly	44.7	63.4	33.2	+18.7	-11.5	58.3	57.0	64.0	0.80	0.80
Winter (DJF)	135.0	141.9	92.3	+6.9	-42.7	40.4	36.7	40.8	0.79	0.87
Spring (MAM)	151.2	217.9	111.6	+66.7	-39.6	28.3	32.5	46.0	0.80	0.85
Summer (JJA)	94.0	214.3	85.2	+120.3	-8.8	34.8	40.8	62.4	0.63	0.61
Autumn (SON)	156.6	186.7	109.6	+30.1	-47.0	31.0	32.0	36.1	0.77	0.57

Online Resource 2. Summary of the main temperature (a) and precipitation (b) statistics for the 1971-2000 period for the NWMB derived from observations (SP02), WRF-ERA40 10-km simulation and ERA40 reanalysis. All Pearson's correlations are statistically significant at a confidence level of 95%.

Seasonal to yearly assessment of temperature and precipitation trends in the North Western Mediterranean Basin by dynamical downscaling of climate scenarios at high resolution (1971-2050). Climatic Change. Gonçalves M*, Barrera-Escoda A, Guerreiro D, Baldasano J M and Cunillera J.

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