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Supplementary Materials

Estimating the Potential Evapotranspiration of Egypt Using a Regional Climate Model and a High-Resolution Reanalysis Dataset †

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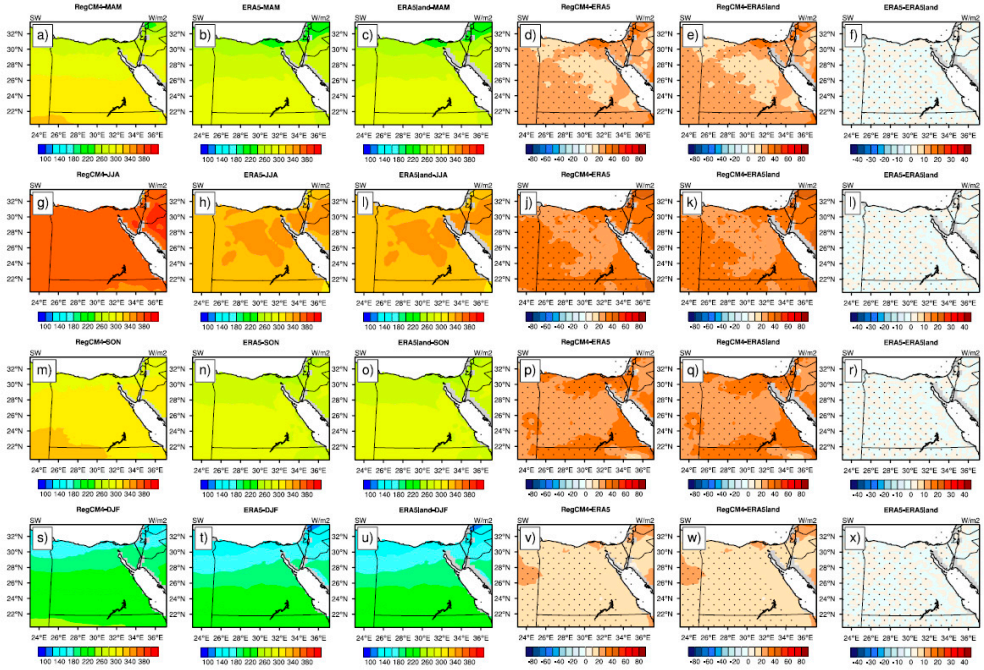

Figure S1. The figure shows the global incident solar radiation over the period 1981–2017 (SW; in W m^{-2}; hereafter RegCM4) for: MAM season in the first row (a-f); JJA in the second (g-l); SON in the third (m-r), DJF in the fourth (s-x). For each row, RegCM4 is on the left, followed by ERA5. ERA5land is in the third from left, RegCM4 minus ERA5, RegCM4 minus ERA5land and the difference between ERA5 and ERA5land. Significant difference/bias is indicated in black dots using student t-test with alpha equals to 5%. Please note that RegCM4 model was driven by EIN15.

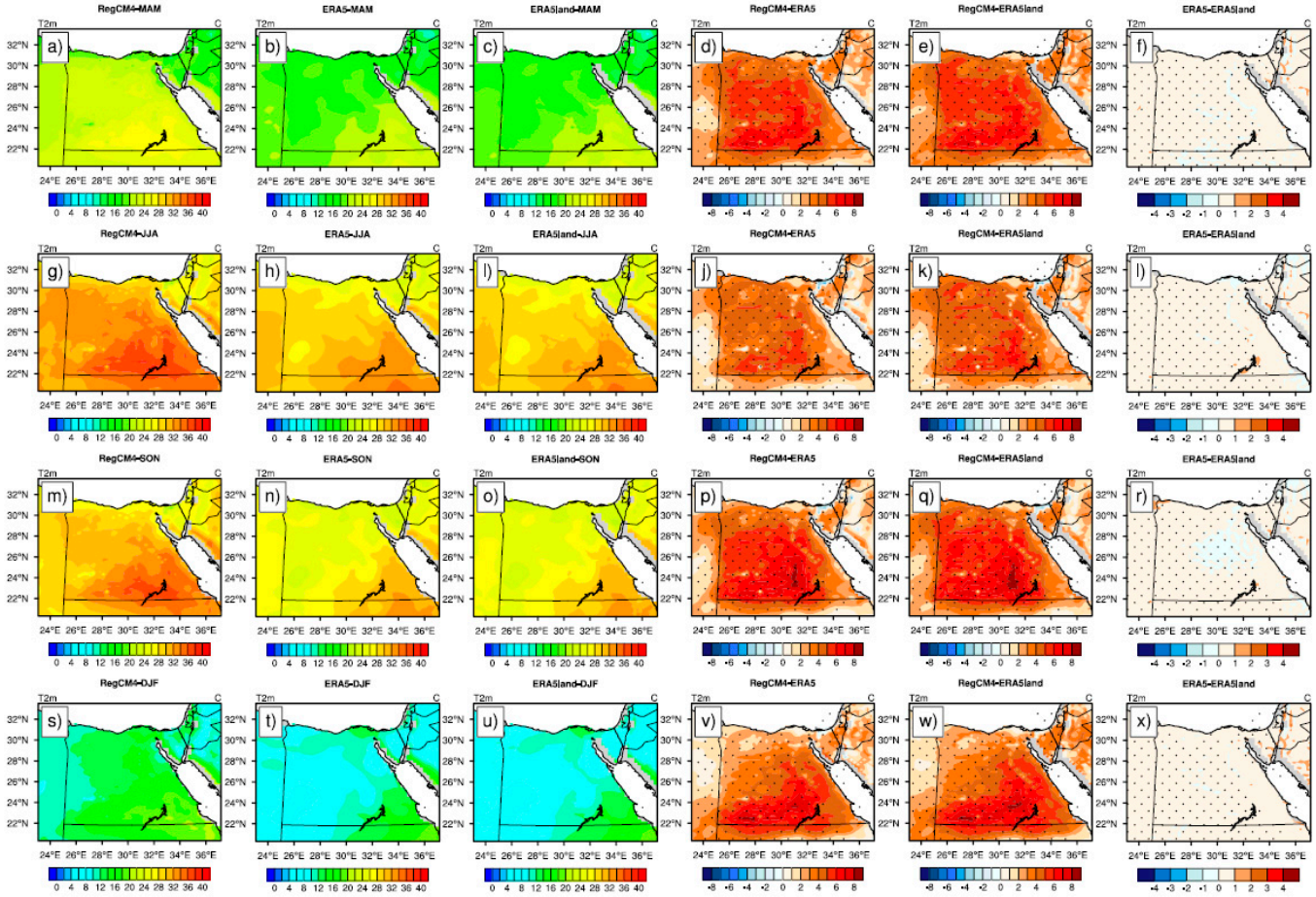

Figure S2. The figure shows the 2-m mean air temperature over the period 1981–2017 (T2m; in °C; hereafter RegCM4) for: MAM season in the first row (a-f); JJA in the second (g-l); SON in the third (m-r), DJF in the fourth (s-x). For each row, RegCM4 is on the left, followed by ERA5. ERA5land is in the third from left, RegCM4 minus ERA5, RegCM4 minus ERA5land and the difference between ERA5 and ERA5land. Significant difference/bias is indicated in black dots using student t-test with alpha equals to 5%. Please note that RegCM4 model was driven by EIN15.