

Supplementary Material

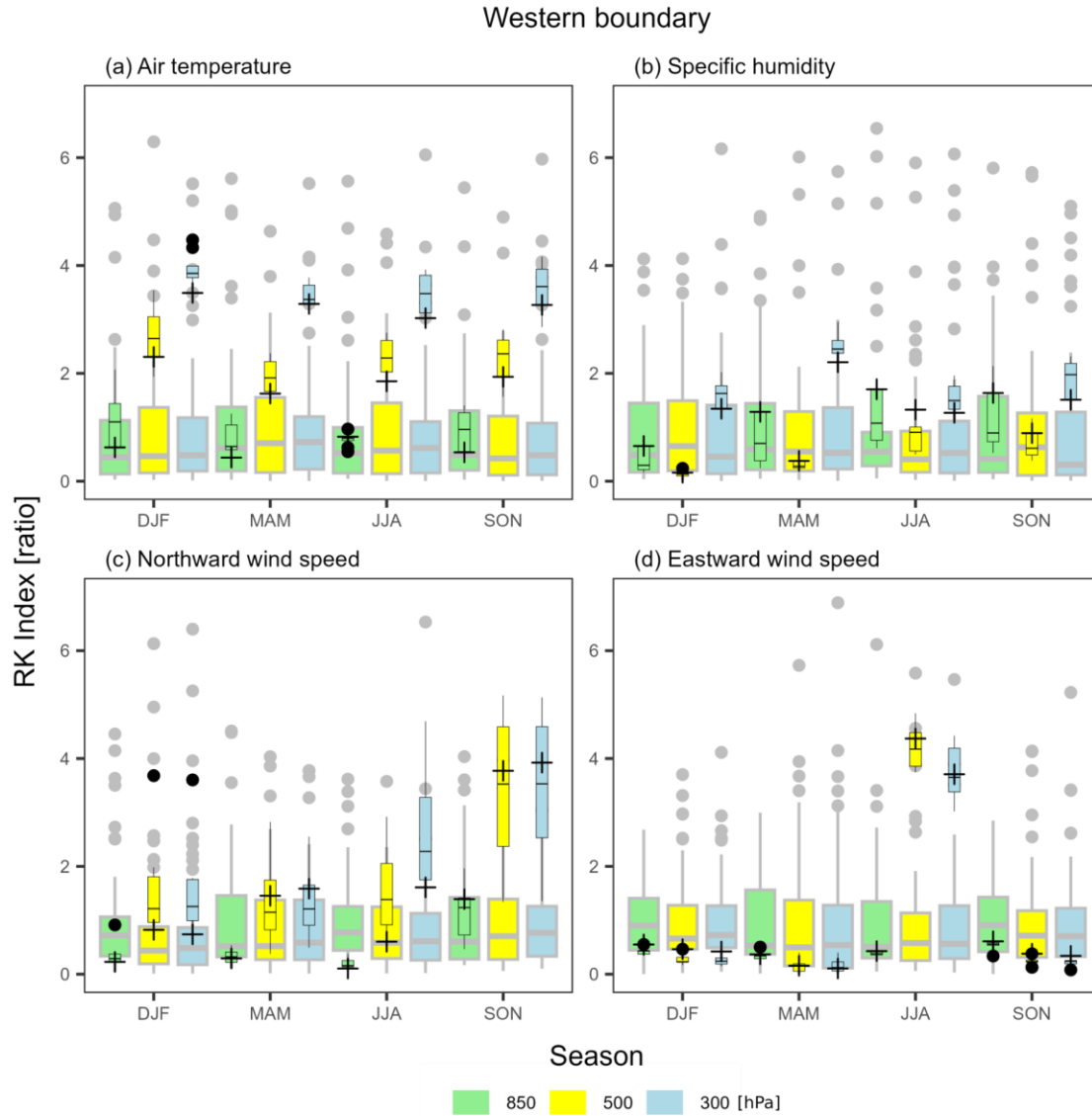


Figure S.1. RK Index of seasonal mean of (a) air temperature, (b) specific humidity, (c) northward (v) wind speed and (d) eastward (u) wind speed in the period 1990–2014 over the western boundary of the studied domain (see Figure 1). Boxplots show intra-ensemble statistical distribution (median, lower and upper quartiles, whiskers representing $1.5 \times \text{IQR}$, and outliers as dots) of CMIP6 (larger boxplots with grey lines and outliers as grey dots) and perturbed initial conditions mini-ensemble CNRM-INI (smaller boxplots with black lines and outliers as black dots). The CNRM-r1 simulation is shown using black crosses. Green, yellow and blue colors denote, respectively, 850, 500 and 300 hPa levels.

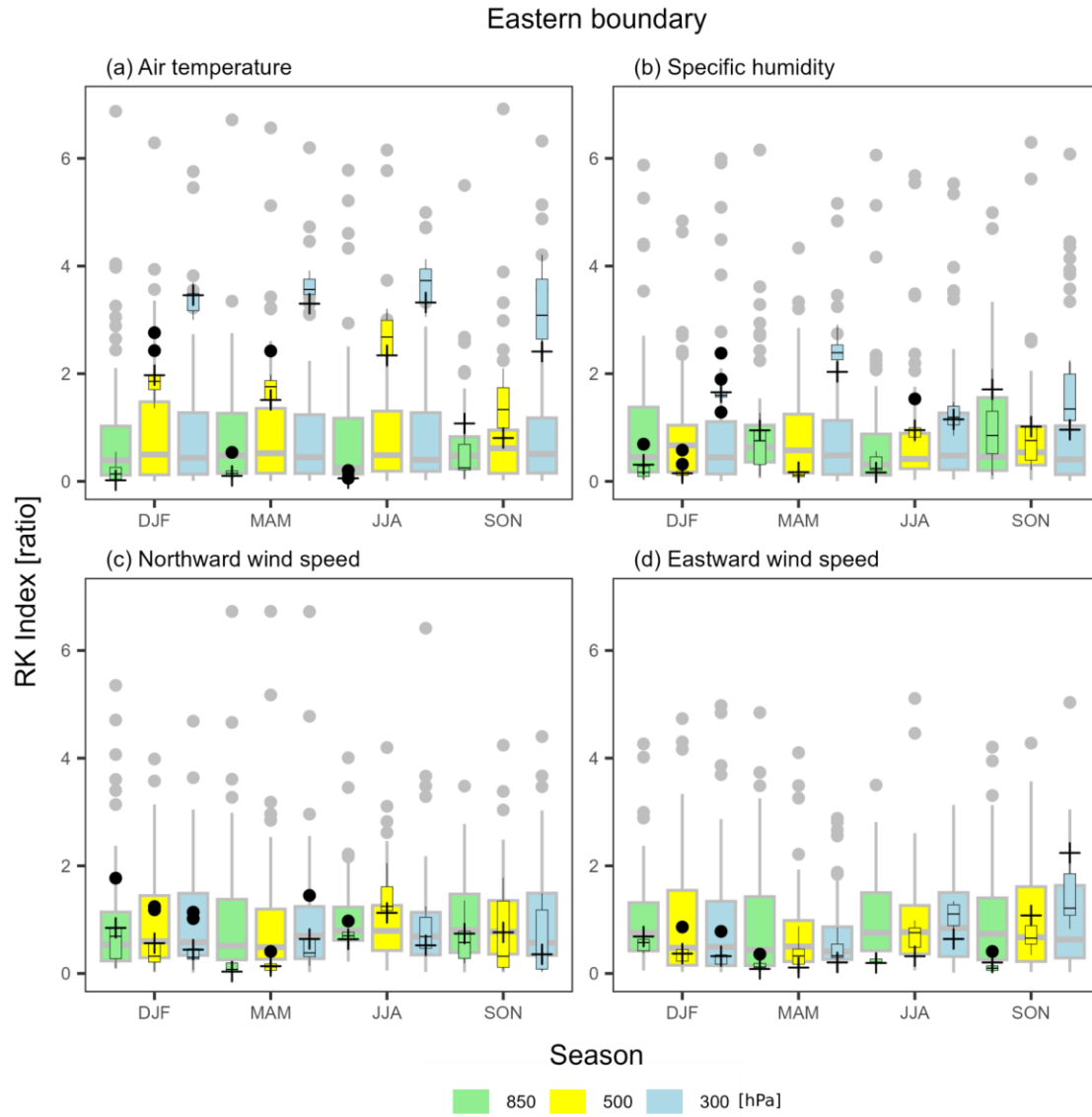


Figure S.2. The same as Fig. S1, but for the eastern boundary of the domain in Fig. 1.

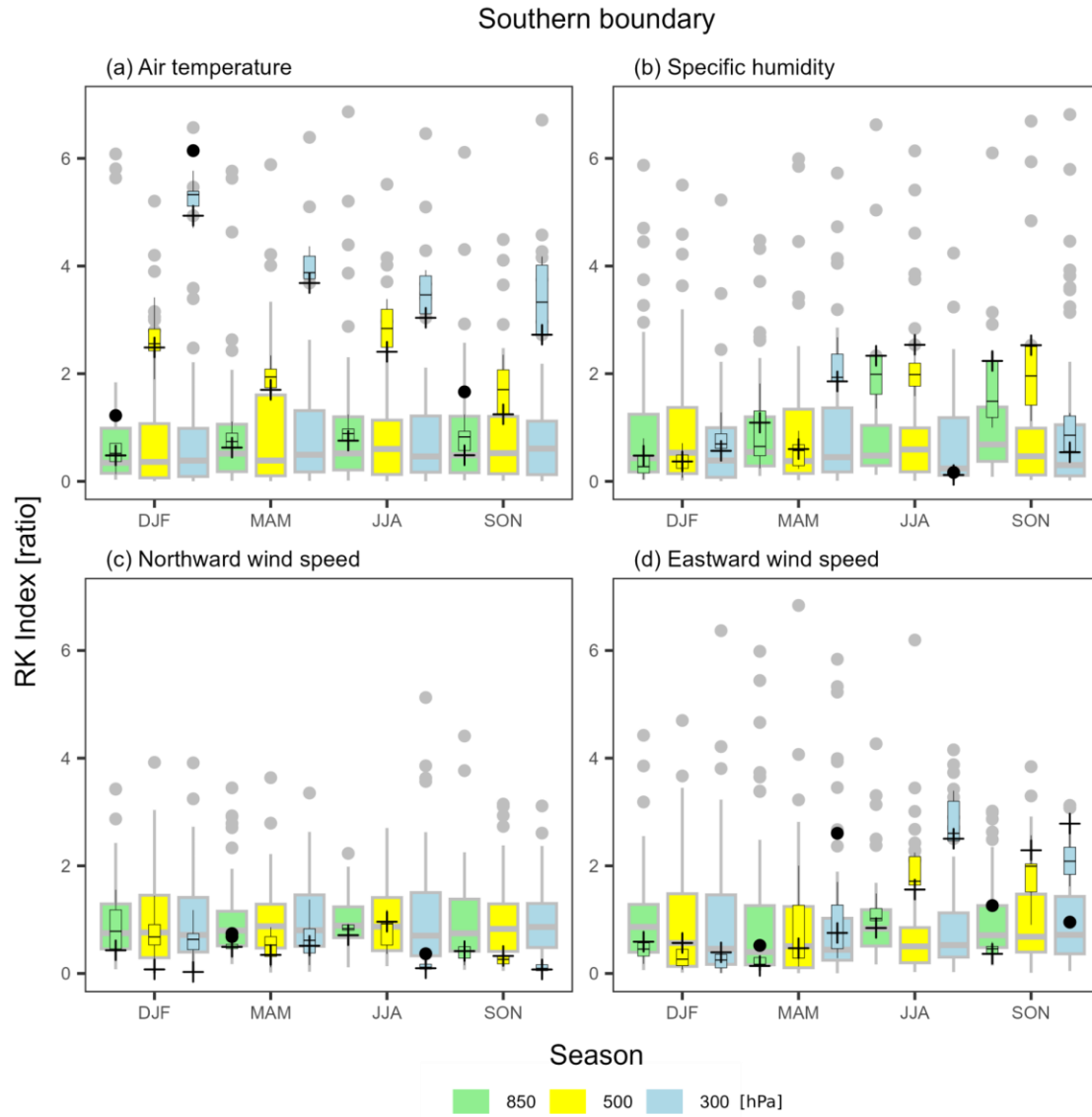


Figure S.3. The same as Fig. S.1, but for the southern boundary of the domain in Fig. 1.

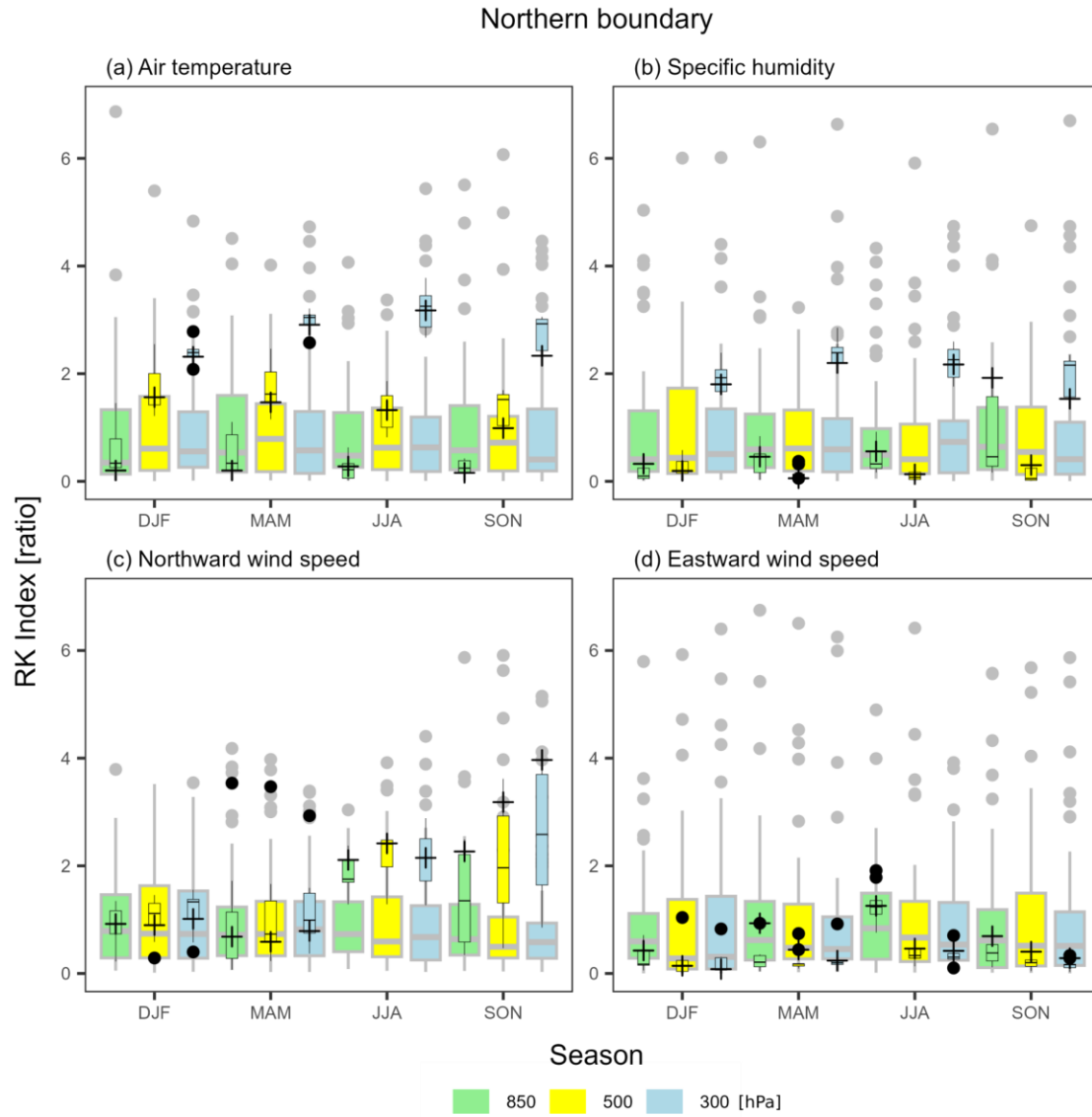


Figure S.4. The same as Fig. S.1, but for the northern boundary of the domain in Fig. 1.