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Intensification of the hydrological cycle expected in West Africa over the 21st century

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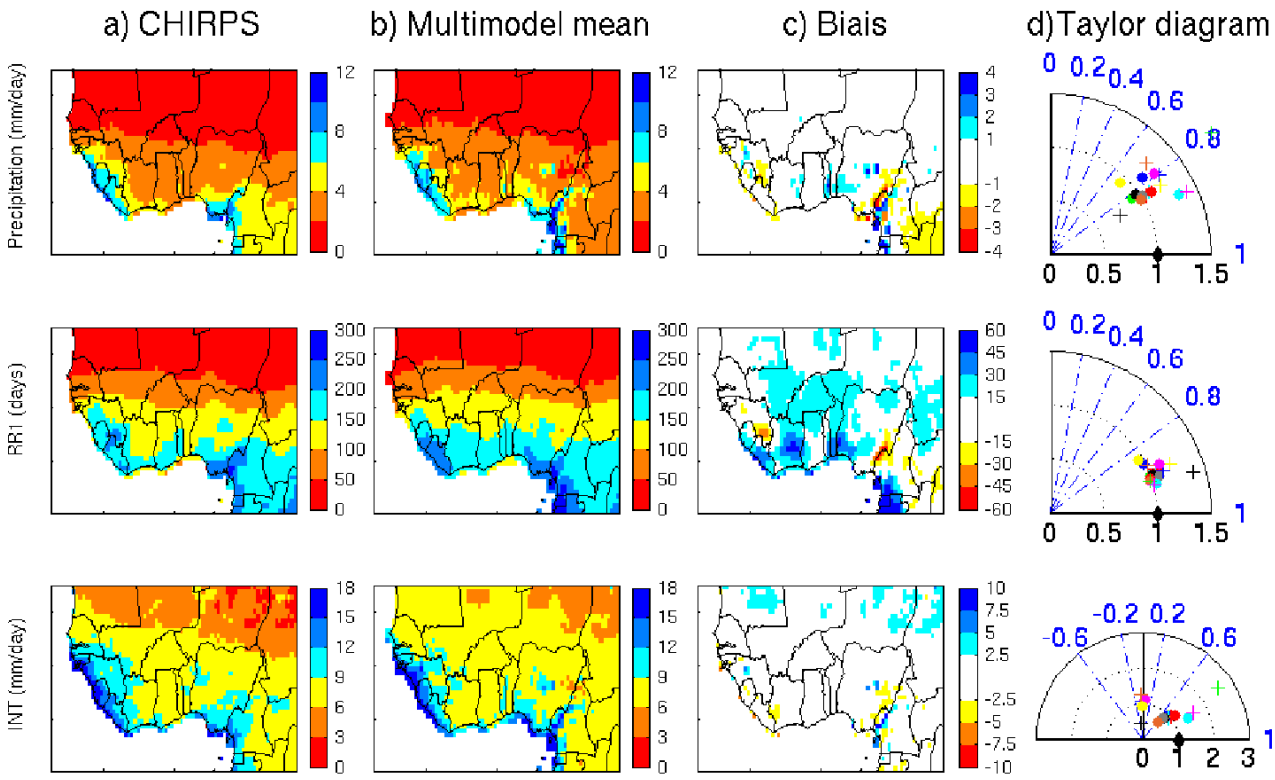
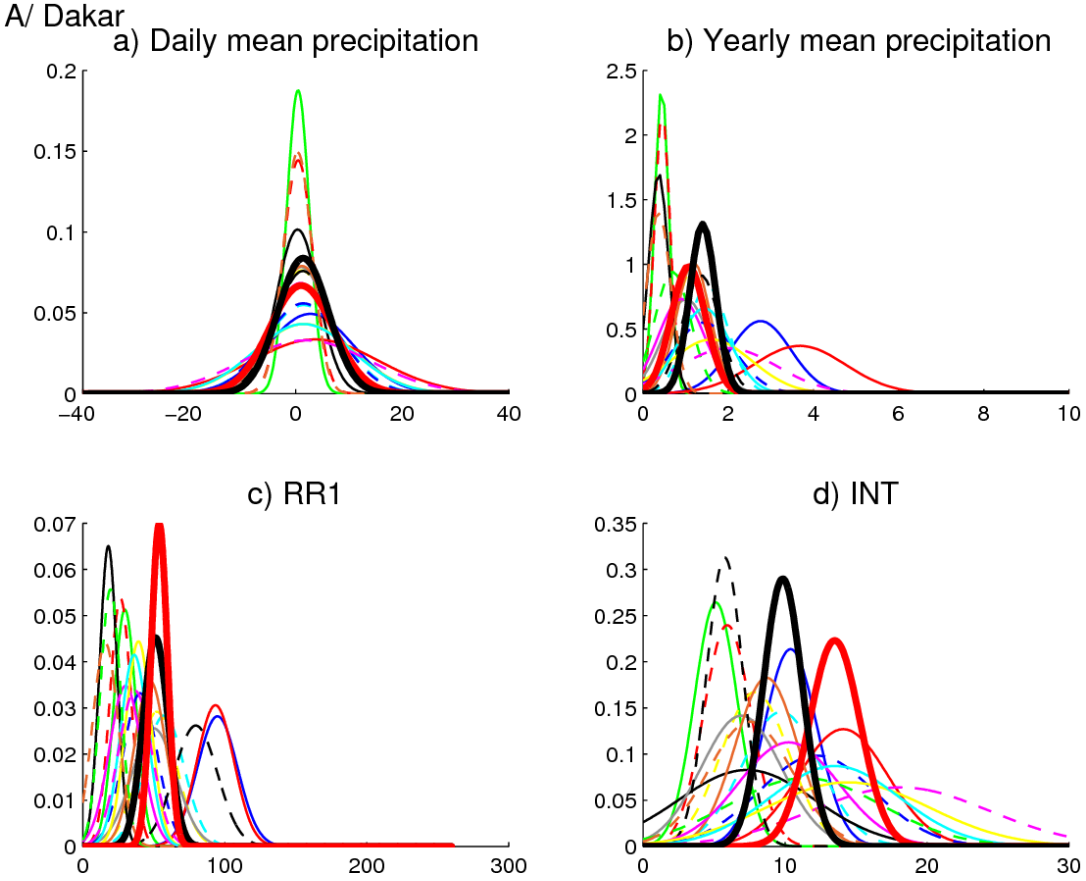
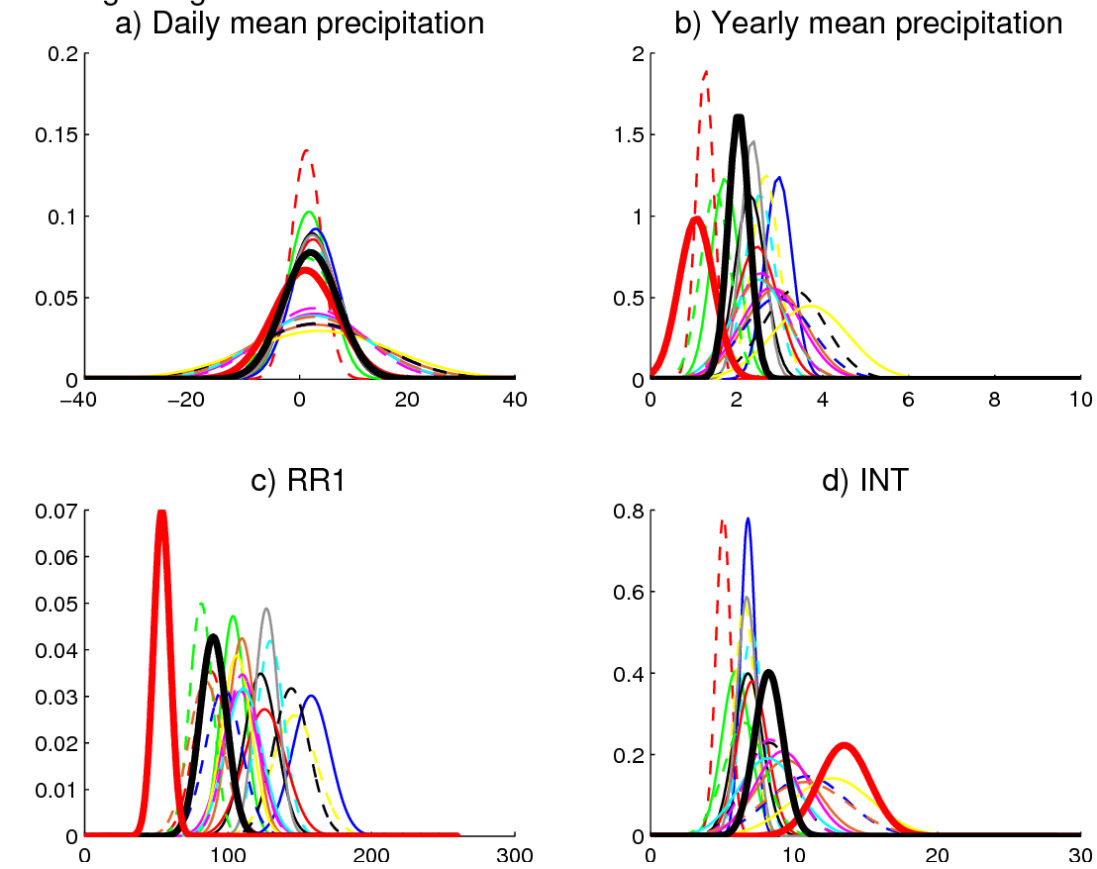


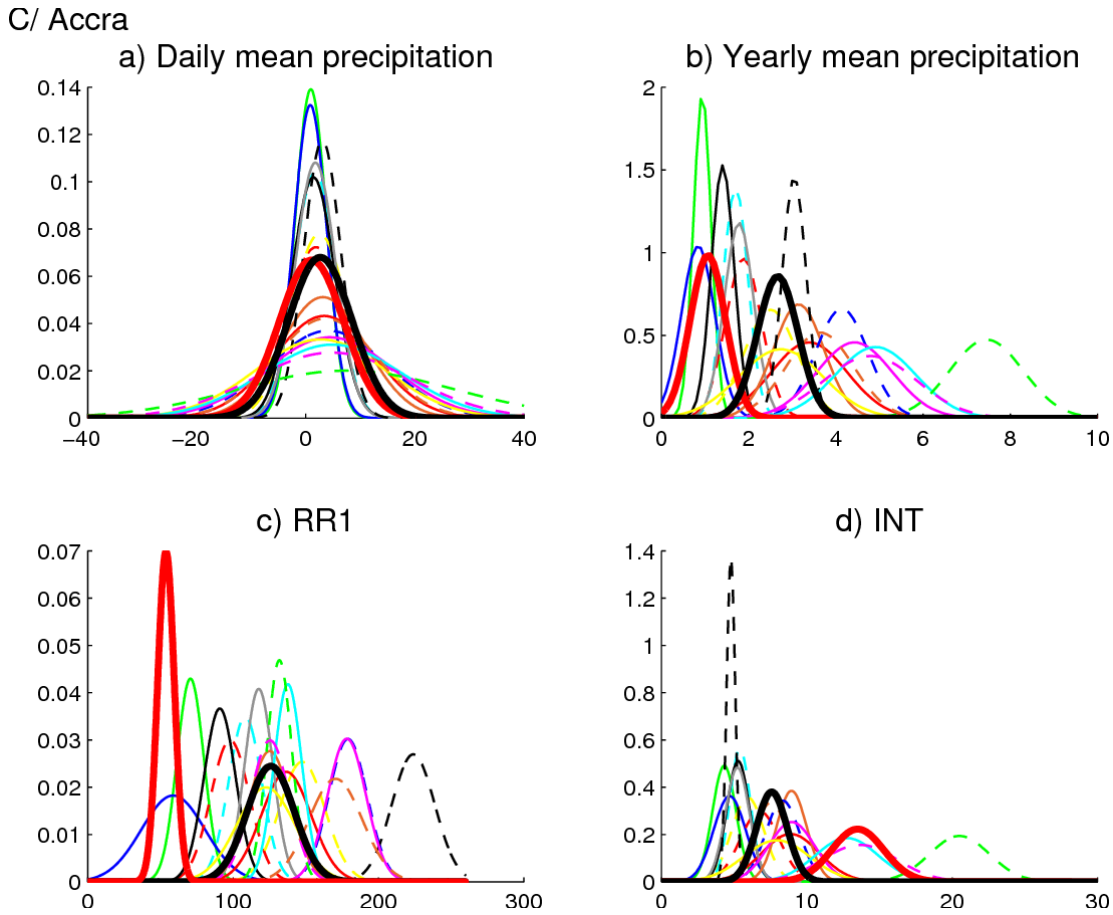
S1. Annual precipitation (top raw, mm/day), RR1 (middle row, days), and INT (bottom raw, mm/day) averaged over 1981-2014, and shown as a) observed in the CHIRPS dataset, b) simulated by the CORDEX multimodel mean, c) ensemble mean bias (relative to the observations), and d) Taylor diagram (Taylor 2001). In the Taylor diagram, the CHIRPS observations are represented by the black diamond, and individual CORDEX simulations are represented by different colors following the color code of Table 1.

A/ Dakar



B/ Ouagadougou





S2. Statistical distribution of a) daily mean precipitation, b) yearly mean precipitation, c) RR1, and d) INT, as observed in the BADOPLUS dataset (thick red curve), the CHIRPS dataset (thick black curve), and as simulated in the individual CORDEX simulations (colored curves following the color code of Table 1) over 1981-2014. Shown are the results for A/Dakar, B/ Ouagadougou, and C/ Accra.