Column headers: **Model A**, **Model A$^+$**, **Model B**, **Model B$^+$**

(a) Standard deviation of precipitation amounts
- MAE = 0.017
- MAE = 0.019
- MAE = 0.016
- **MAE = 0.014**
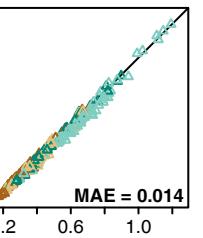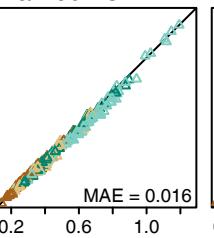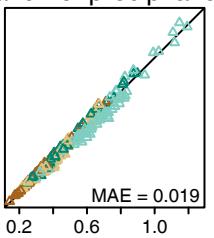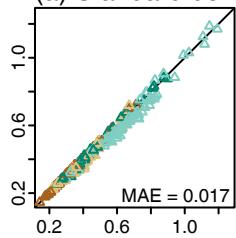
(b) Proportion of wet steps
- **MAE = 0.002**
- MAE = 0.002
- MAE = 0.01
- MAE = 0.008

(c) $\pi_{10} = P(R_{t-1} = 1, R_t = 0)$
- MAE = 0.009
- **MAE = 0.002**
- MAE = 0.012
- MAE = 0.004

(d) Lag−1 autocorrelation
- MAE = 0.052
- **MAE = 0.035**
- MAE = 0.131
- MAE = 0.067
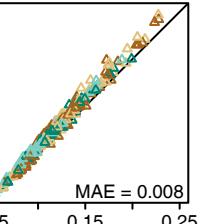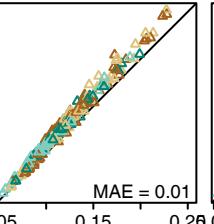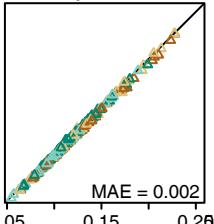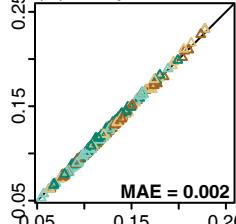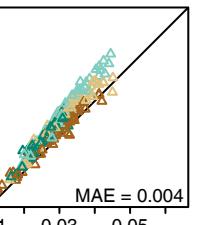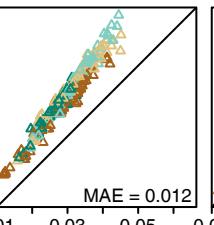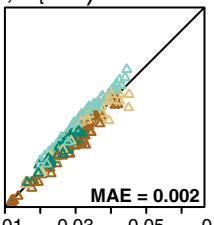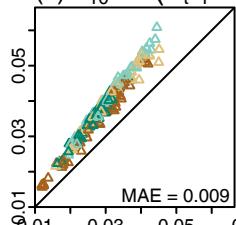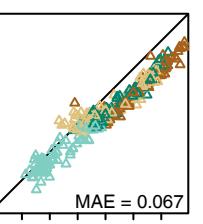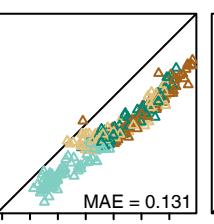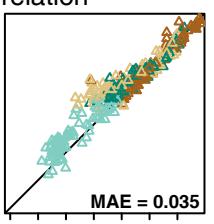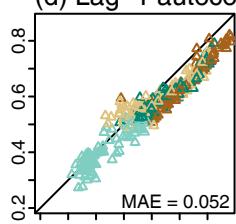
(e) Mean length of wet spells
- MAE = 0.935
- **MAE = 0.25**
- MAE = 0.893
- MAE = 0.288

Season
△ DJF
△ MAM
△ JJA
△ SON

Simulated

Observed