## Drought stress parameters (b) $(\mathbf{a})$ $MAD_{SP\mid P_s}=2.46$ $MAD_{SP\mid P_s}=0.09$ $|MAD_{SP|P_s}=0.36|$ 20 20 $MAD_{SP\mid P_{s,y}}=0.05$ $MAD_{SP\mid P_{s,y}}=1.13$ $MAD_{SP\mid P_{s,y}}=0.18$ $\overline{MAD_{TP}}=0.07$ $\overline{MAD_{TP}} = 1.81$ $\overline{MAD_{TP}}=0.13$ 10 20 10 5.0 $0.1 \quad 0.2 \quad 0.3$ 0.050.102.5 $K_W$ [-] $W_I \left[ \text{mm} \cdot \text{mm}^{-1} \right]$ $\alpha$ |-|Hydrological model parameters (f)20 $|MAD_{SP|P_s} = 254.4220$ $|MAD_{SP|P_s}=0.03$ $MAD_{SP\mid P_s}=0.12$ $MAD_{SP\mid P_s}=0.12$ $\langle MAD_{SP|P_{s,y}} = 0.02$ 20 $MAD_{SP|P_{s,y}} = 181.46$ $MAD_{SP\mid P_{s,y}}=0.10$ $MAD_{SP\mid P_{s,y}}=0.08$ $\overline{MAD_{TP}}=0.02$ $\overline{MAD_{TP}}=154.07$ $\overline{MAD_{TP}}=0.04$ $\overline{MAD_{TP}}=0.10$ 10 10 10 10 0.00.000.50.02 200 0.0 AWC [mm] $PET_{scalar}$ [-] $MR_{tair}$ $\theta \, [\mathrm{mm} \cdot \mathrm{h}^{-1}]$ $[\text{mm} \cdot^{\circ} \text{C} \cdot \text{h}^{-1}]$ (h) 40 20 $MAD_{SP\mid P_s}=0.03$ $|MAD_{SP|P_s}=0.65|$ $MAD_{SP\mid P_{s,y}}=0.02$ $MAD_{SP\mid P_{s,y}}=0.54$ $MAD_{SP|P_s}$ $\overline{MAD_{TP}} = 0.03$ $\overline{MAD_{TP}}=0.36$ $MAD_{SP|P_{s,y}}$ 20 10- $MAD_{TP}$

sites [%]

Jo

Fraction

0.00

0.05

 $sn_a$  [-]

 $MR_{netrad}$ 

 $[\text{mm} \cdot \text{MJ}^{-1} \cdot \text{h}^{-1}]$