

Supplementary

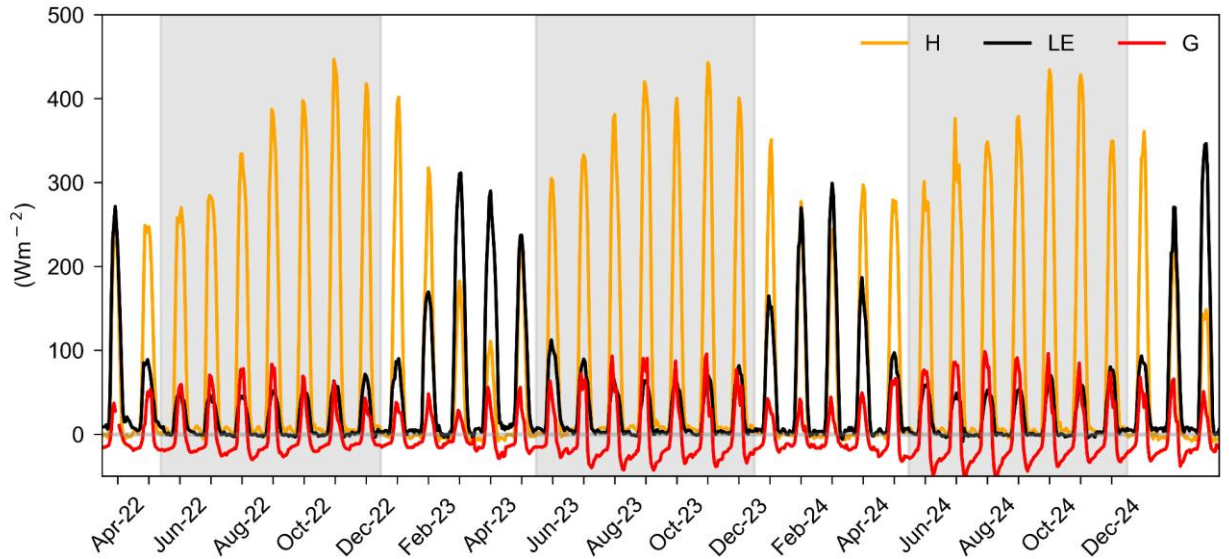


Figure 1: Diurnal course of latent heat flux (LE, W m⁻²), sensible heat flux (H, W m⁻²) and ground heat flux (G, W m⁻²) over the study period.

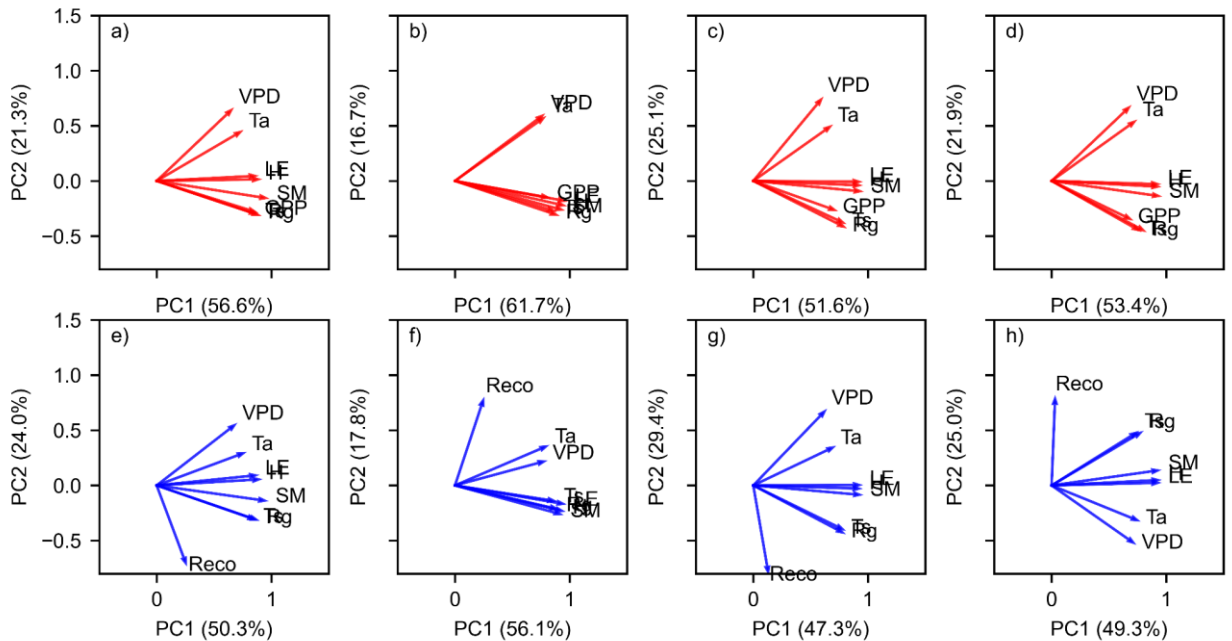


Figure 2: Principal Component Analysis (PCA) of gross primary production (GPP, red) and ecosystem respiration (Reco, blue) in relation to key environmental variables on 30 min data of soil temperature (Ts, °C), air temperature (Ta, °C), vapor pressure deficit

(VPD, hPa), soil moisture (SM, % vol.), latent heat flux (LE, $W m^{-2}$), sensible heat flux (H, $W m^{-2}$), and global radiation (R_g , $W m^{-2}$) for the four seasonal conditions: (a, e) wet, (b, f) dry, (c, g) wet-to-dry transition, and (d, h) dry-to-wet transition.