

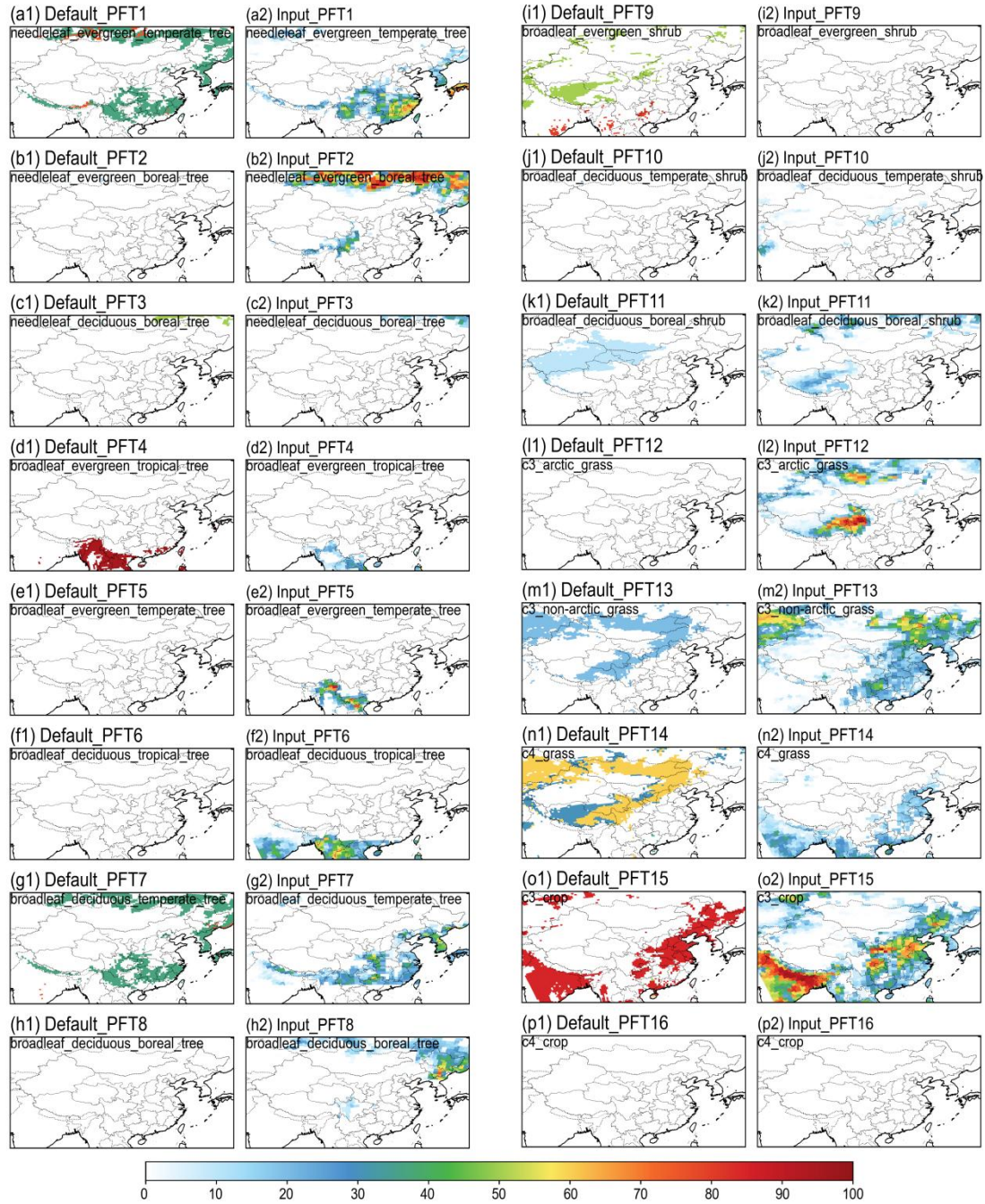


Figure S1: Comparison of default PFTs and their percentages in WRF-CLM4 with those inputted into WR-CLM5.

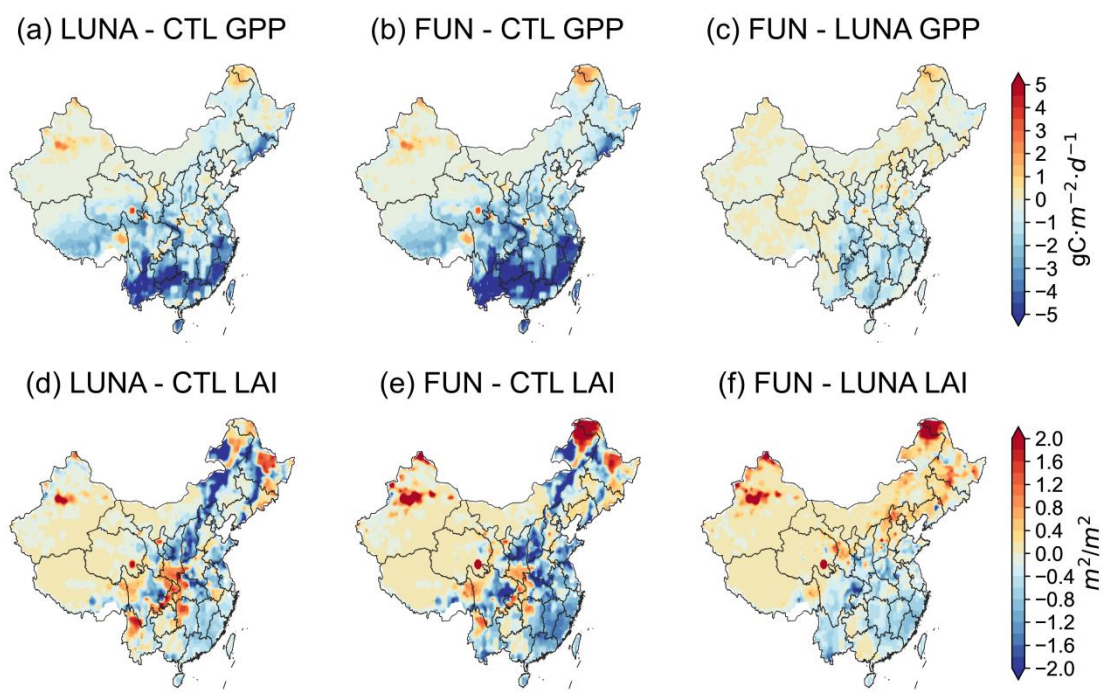


Figure S2: (a-c) The differences of GPP among three simulation experiments, and (d-f) the differences of LAI among three simulation experiments.

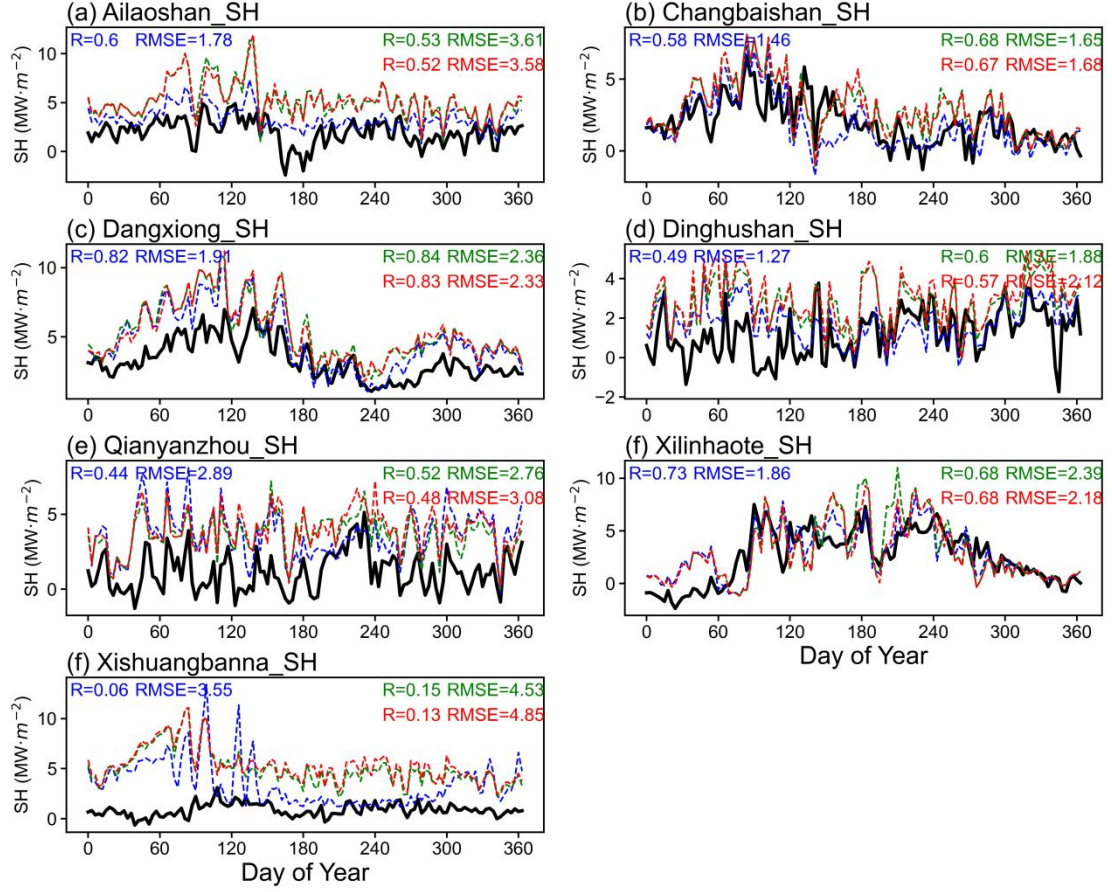


Figure S3: (a-c) The SH series at seven in-situ observation sites, with values derived from eddy-covariance observation (black solid line), Exp_CTL (blue dashed line), Exp_LUNA (green dashed line), and Exp_FUN (red dashed line).

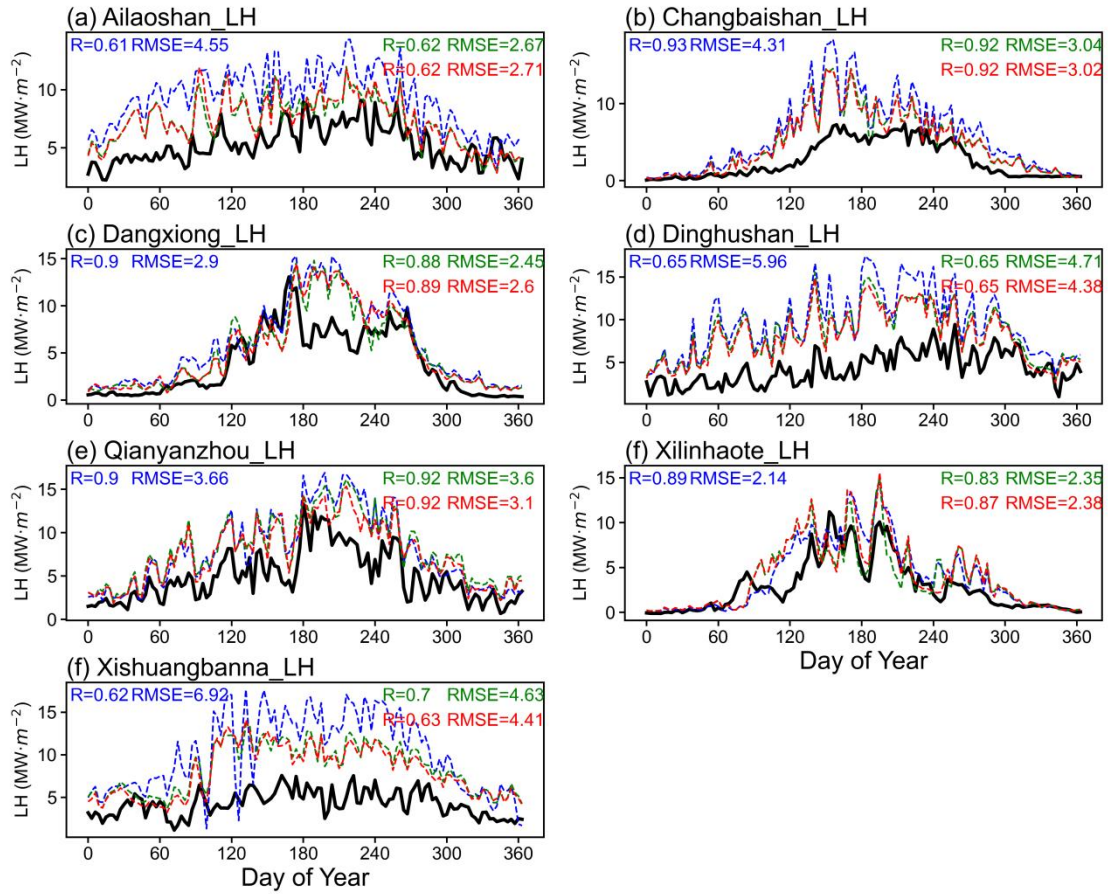


Figure S4: Same as Figure S4, but for LH.

