

Supplementary Figures: Quantification of hydraulic trait control on plant hydrodynamics and risk of hydraulic failure within a demographic structured vegetation model in a tropical forest (FATES-HYDRO V1.0)

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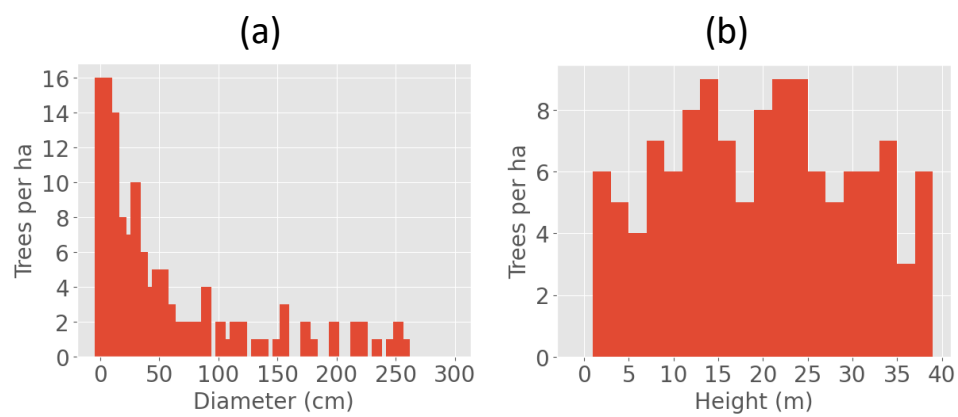


Figure S1: The size distribution for BCI for DBH (a) and Height (b)

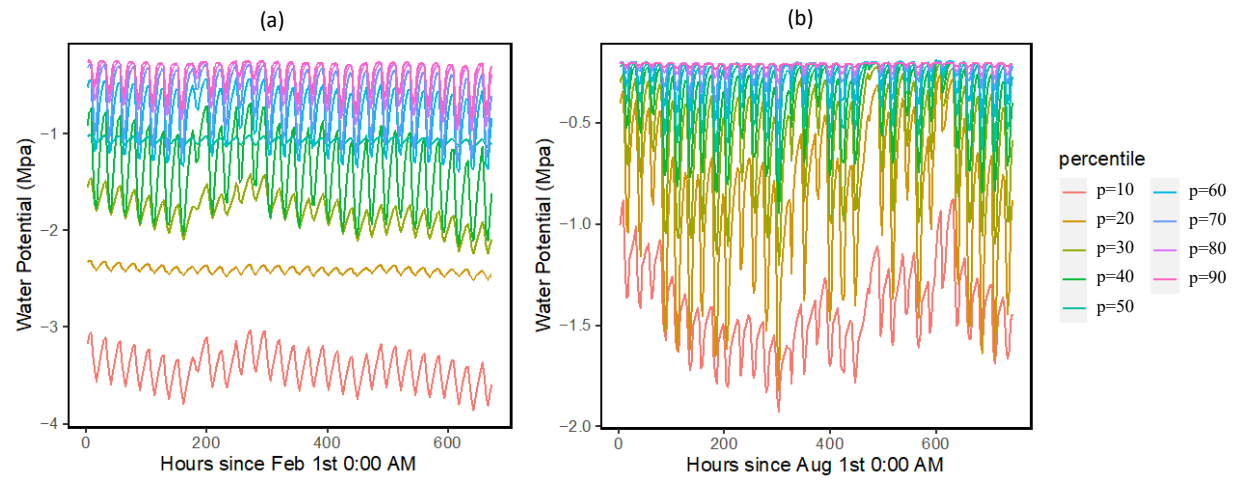


Figure S2: Simulated ranges of leaf water potential for February (a) and August (a), 2016 for trees with DBH < 60cm. The percentiles are calculated based on the monthly mean values of leaf water potentials for the 1000 ensemble simulations.

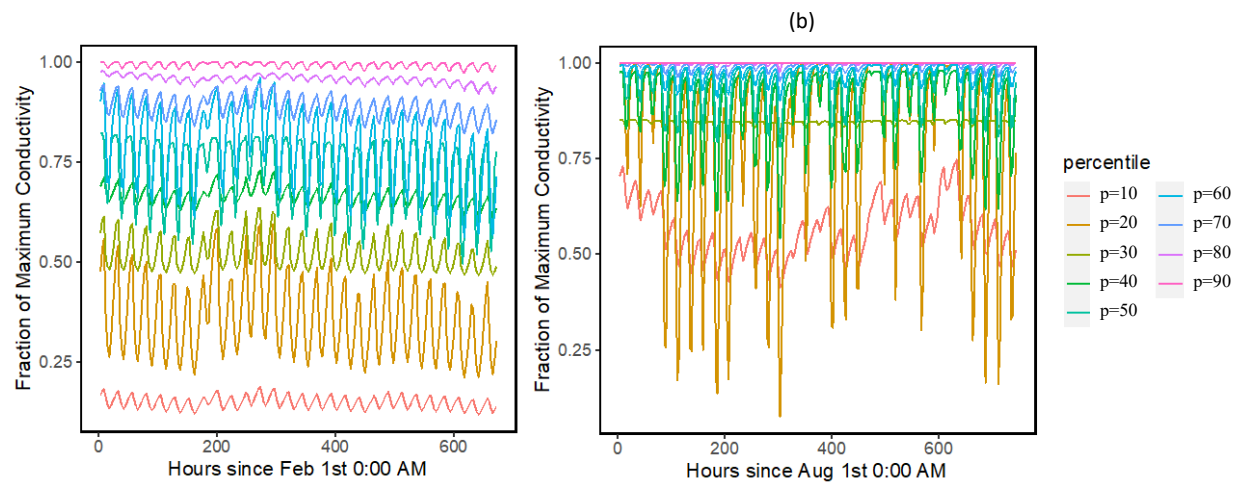


Figure S3: Simulated ranges of fraction of maximum hydraulic conductivity of stem for February (a) and August (a), 2016 for trees with DBH < 60cm. The percentiles are calculated based on the monthly mean values of leaf water potentials for the 1000 ensemble simulations.

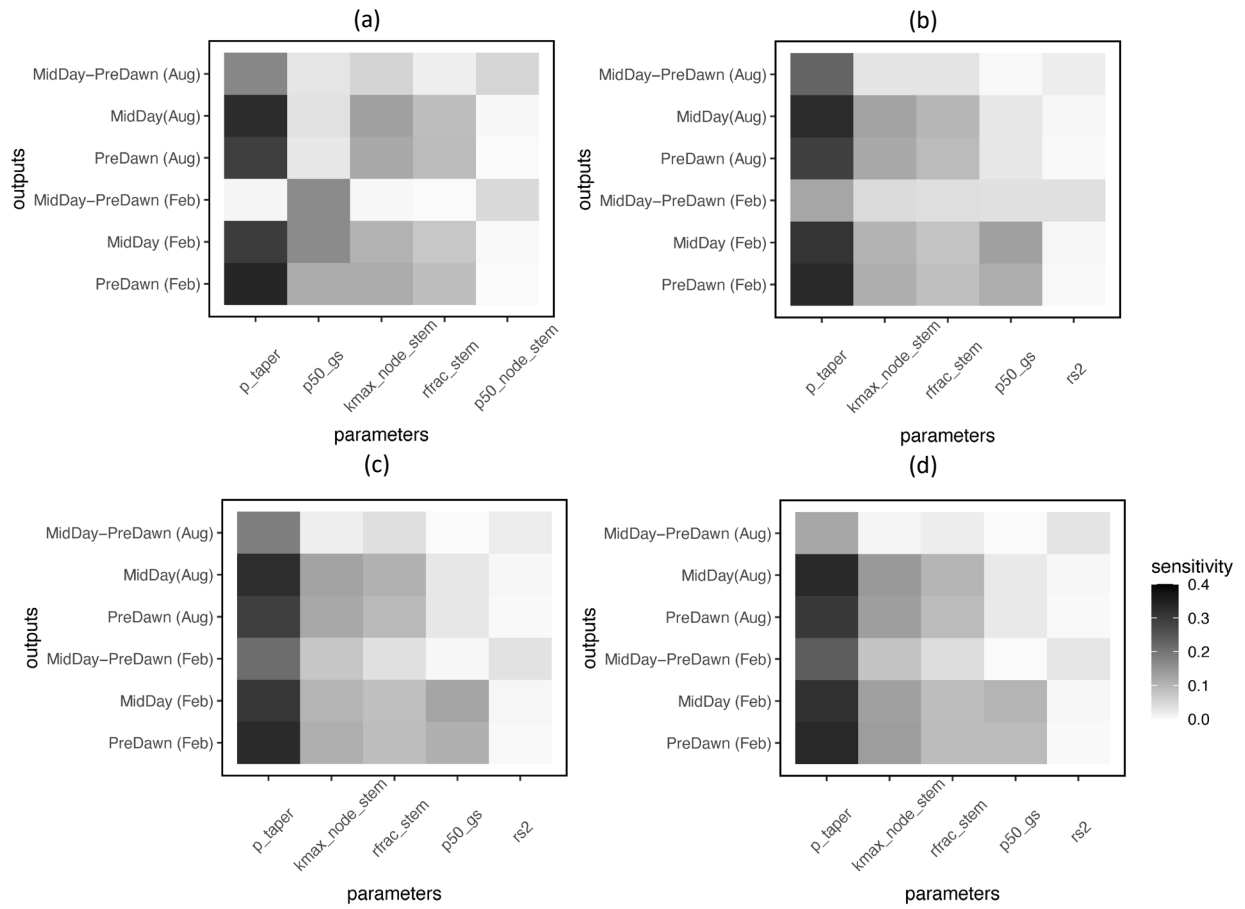


Figure S4: Key parameters that control simulated water potentials for leaf (a), stem (b), transporting root (c) and absorbing root (d), for trees with DBH < 60cm. The sensitivity value refers to the proportion of total model output variance contributed by a specific parameter (0-1). See Table 1 for the explanation of the parameters.

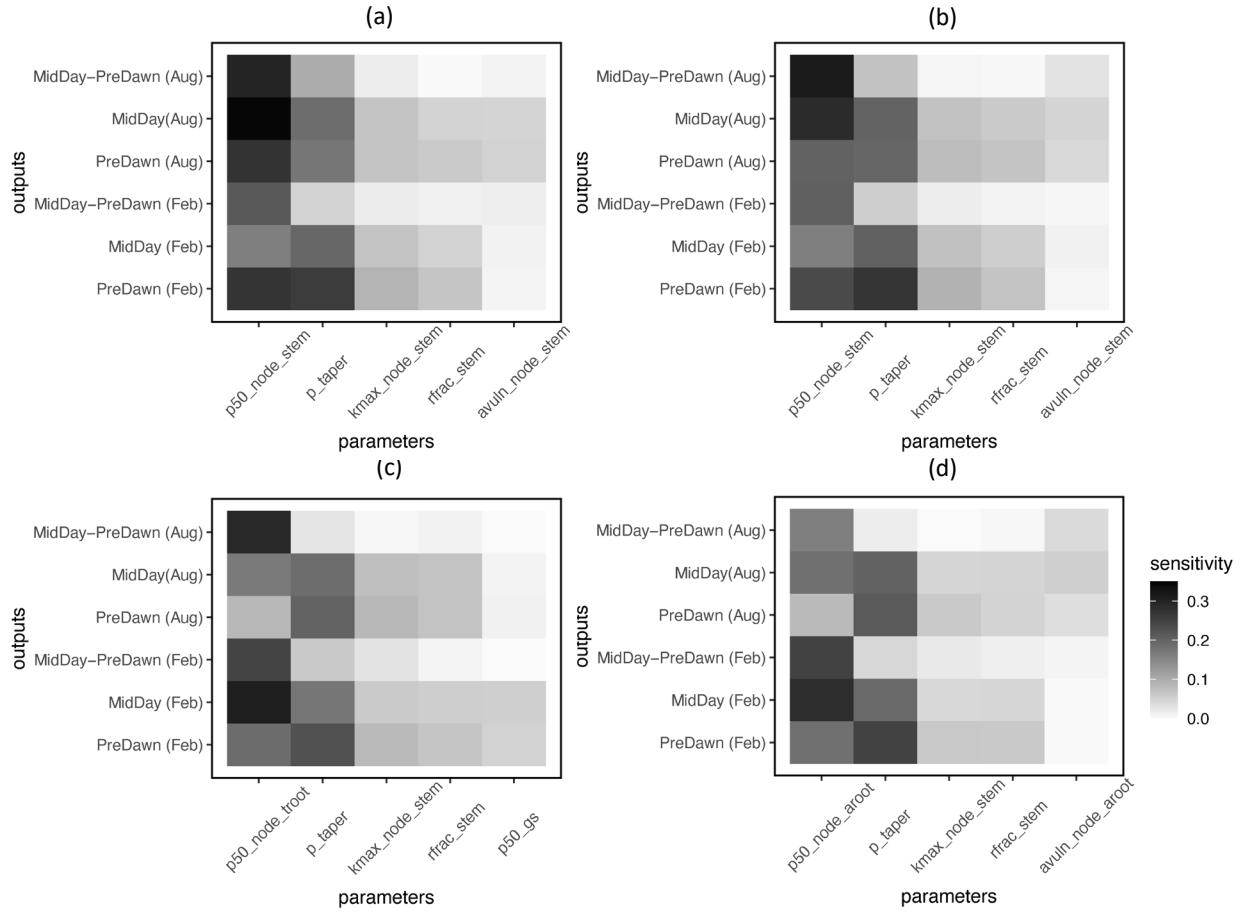


Figure S5: Key parameters that control simulated loss of conductivity for branch (a), stem (b), transporting root (c) and absorbing root (d), for trees with DBH < 60cm. The sensitivity value refers to the proportion of total model output variance contributed by a specific parameter. See Table 1 for the explanation of the parameters. See Table 1 for the description of parameters.