Supplementary figures for reviewer 1

February 5, 2021



Figure 1: New supplementary figure: Representation of joint posterior correlation matrix within each PFT. The full joint posterior (which includes correlations between every PFT's parameters) is too large to display in this format.



Figure 2: Sensitivities of EDR to leaf area index (LAI), clumping factor, and leaf orientation factor. Simulations assume one common cohort.



Figure 3: Revised site map, with sites used in the validation figure labelled.



Figure 4: Sites used in this analysis in stand structure space. The dashed line is a forest self-thinning curve (c.f., Zeide 2010) parameterized based on an analysis of USFS Forest Inventory and Analysis (FIA) (T. Andrews, unpublished).



Figure 5: Bias in leaf area index (LAI) predictions of EDR relative to observations as a function of site mean diameter at breast height (DBH).



Figure 6: Same as above, but broken down by ED2 plant functional type (PFT). EH is Early Hardwood, MH is North Mid Hardwood, LH is Late Hardwood, NP is Northern Pine, and LC is Late Conifer.



Figure 7: Same as above, but as a function of site stem density (left) and everyreen fraction (right).



Figure 8: Bias in leaf area index (LAI) predictions of EDR versus relative to observations as a function of biases in EDR predictions of reflectance relative to observations, by site, averaged over two spectral regions.