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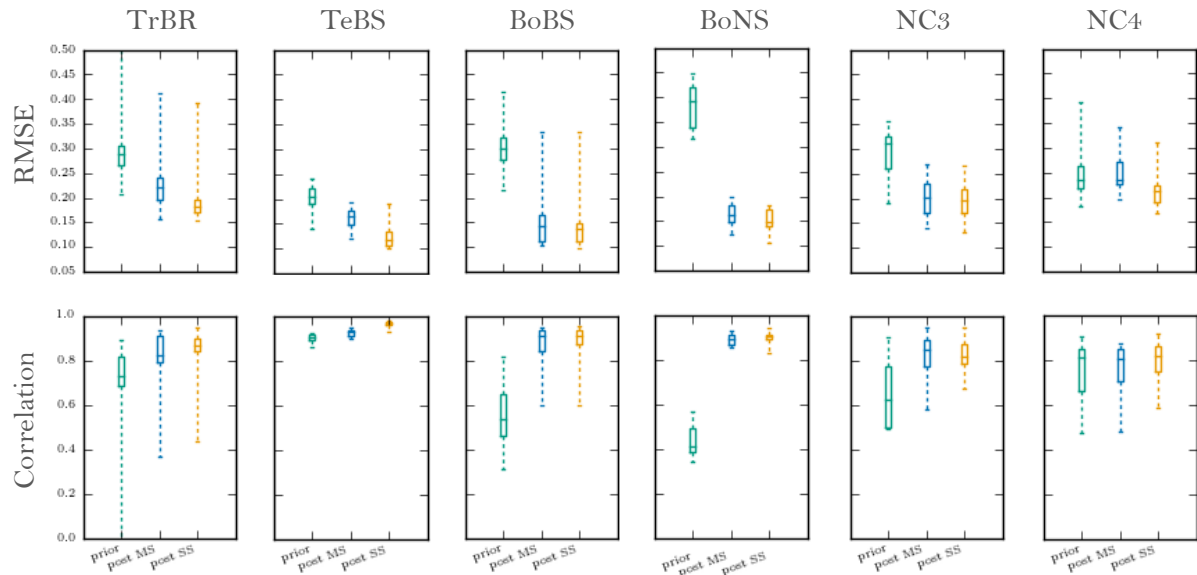
Supplement of

Using satellite data to improve the leaf phenology of a global Terrestrial Biosphere Model

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2 Figure S1. Box and whisker plots showing the spread in the prior and single-site (SS) and
 3 multi-site (MS) posterior RMSE and R between the normalized modeled fAPAR and MODIS
 4 NDVI data across all sites for all optimized PFTs. The middle line shows the median, the
 5 lower and upper edges of the box correspond to the 25th and 75th percentile respectively, and
 6 the range of the whiskers corresponds to the maximum and minimum RMSE and R.

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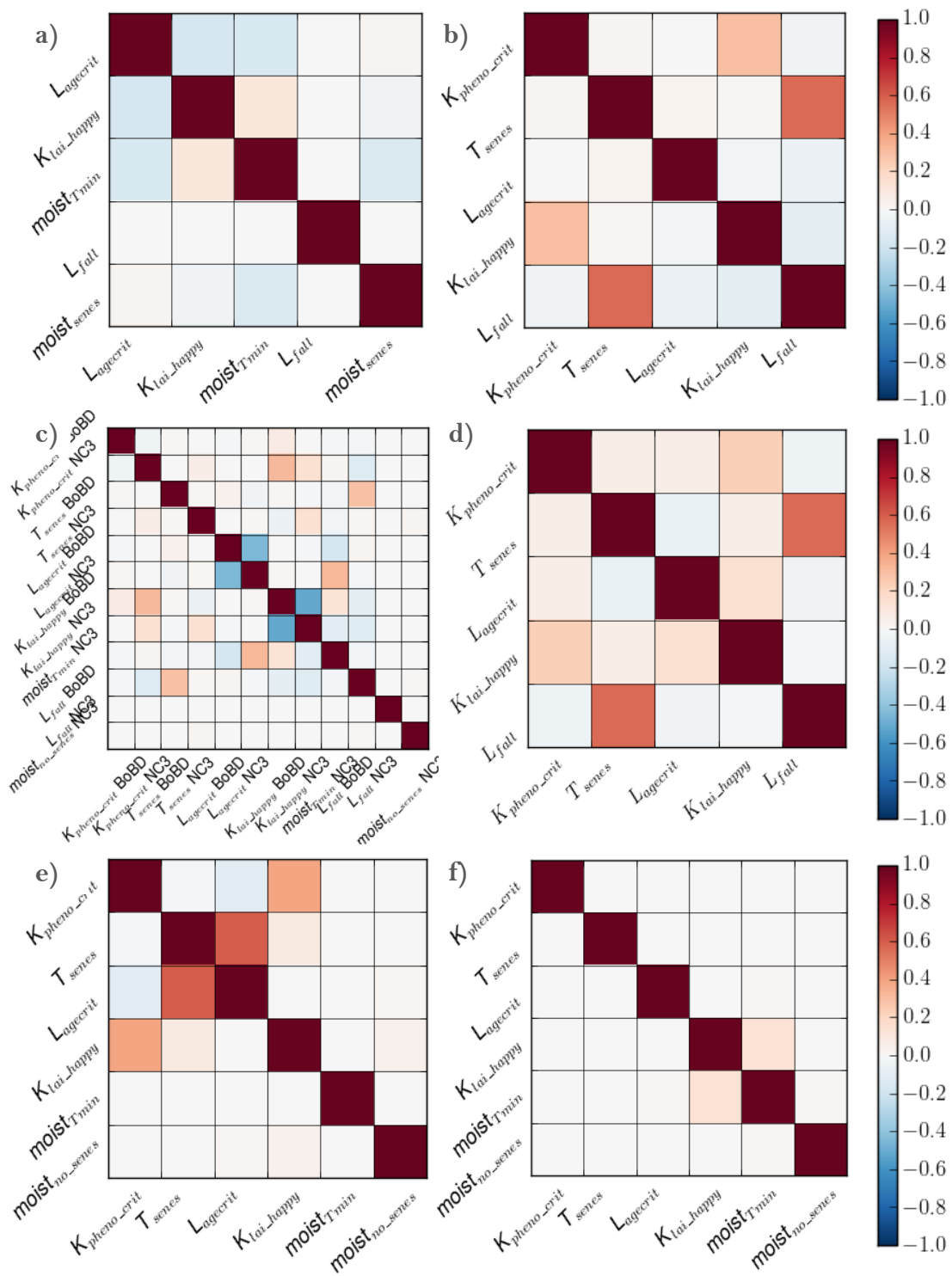
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2 Figure S2. Parameter posterior covariance matrices for MS optimization for the a) TrBR; b)
 3 TeBD; c) BoBD; d) BoND; e) NC3; f) NC4 PFTs. Note in c) that BoBD sites contained
 4 significant fraction of NC3 grasses and therefore the parameters were optimized for both
 5 PFTs (see Section 3.3.3).