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*Supplement of*

## **Using satellite data to improve the leaf phenology of a global terrestrial biosphere model**

**N. MacBean et al.**

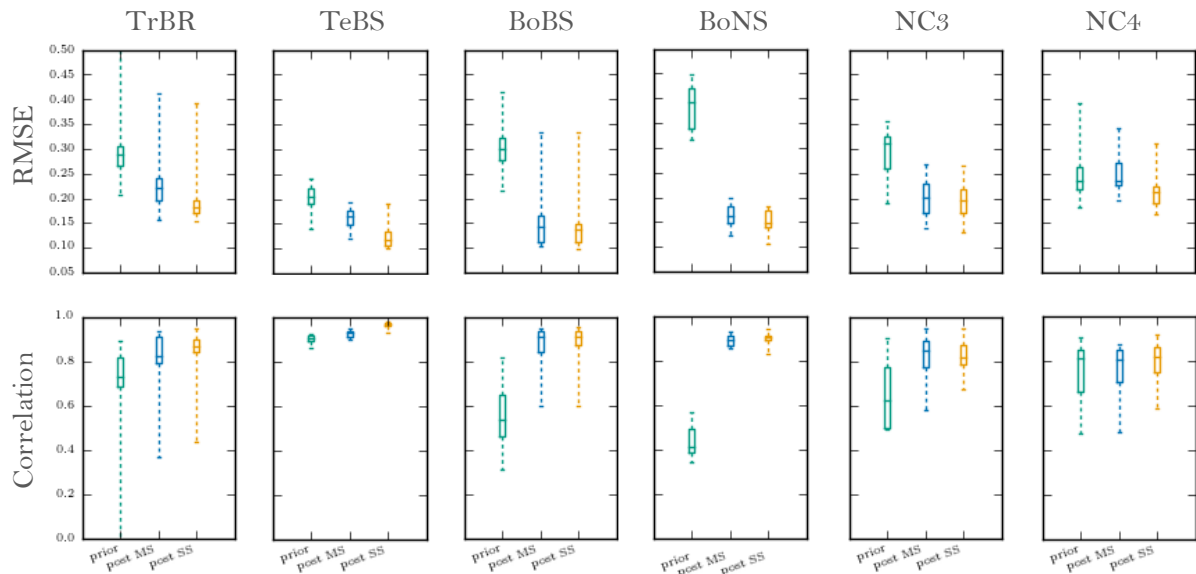
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1 **Supplementary Material**

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

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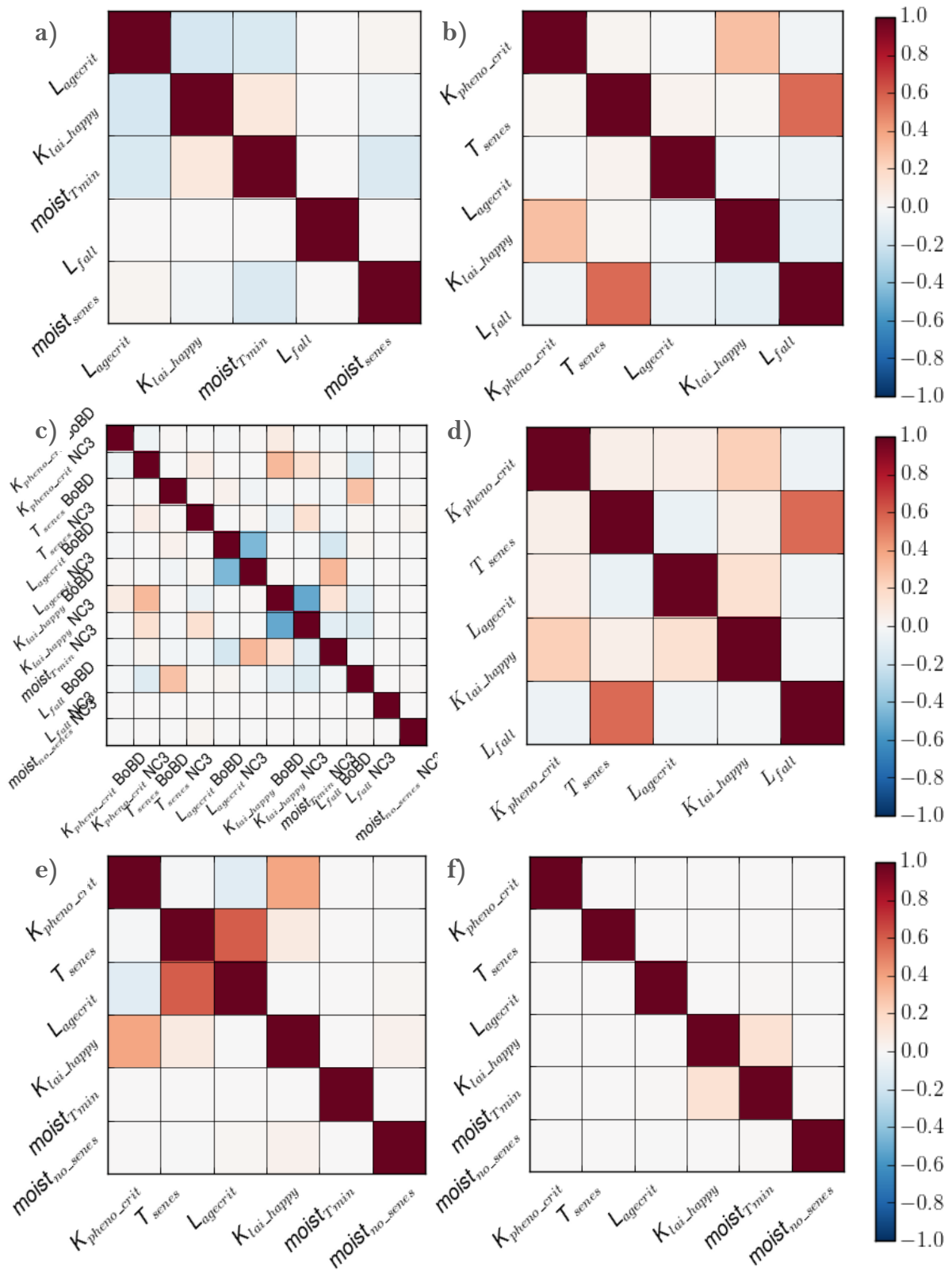
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2 Figure S2. Parameter posterior covariance matrices for MS optimization for the a) TrBR; b)

3 TeBD; c) BoBD; d) BoND; e) NC3; f) NC4 PFTs. Note in c) that BoBD sites contained

1 significant fraction of NC3 grasses and therefore the parameters were optimized for both  
2 PFTs (see Section 3.3.3).

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