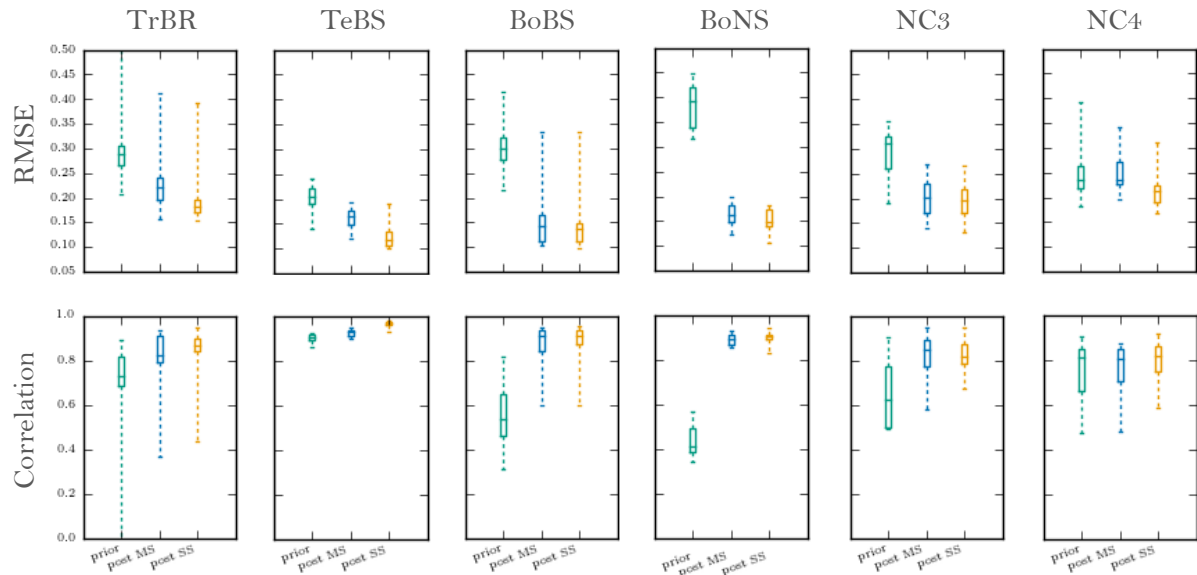Biogeosciences
Discussions

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Supplement of

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

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Figure S1. Box and whisker plots showing the spread in the prior and single-site (SS) and multi-site (MS) posterior RMSE and R between the normalized modeled fAPAR and MODIS NDVI data across all sites for all optimized PFTs. The middle line shows the median, the lower and upper edges of the box correspond to the 25th and 75th percentile respectively, and the range of the whiskers corresponds to the maximum and minimum RMSE and R.
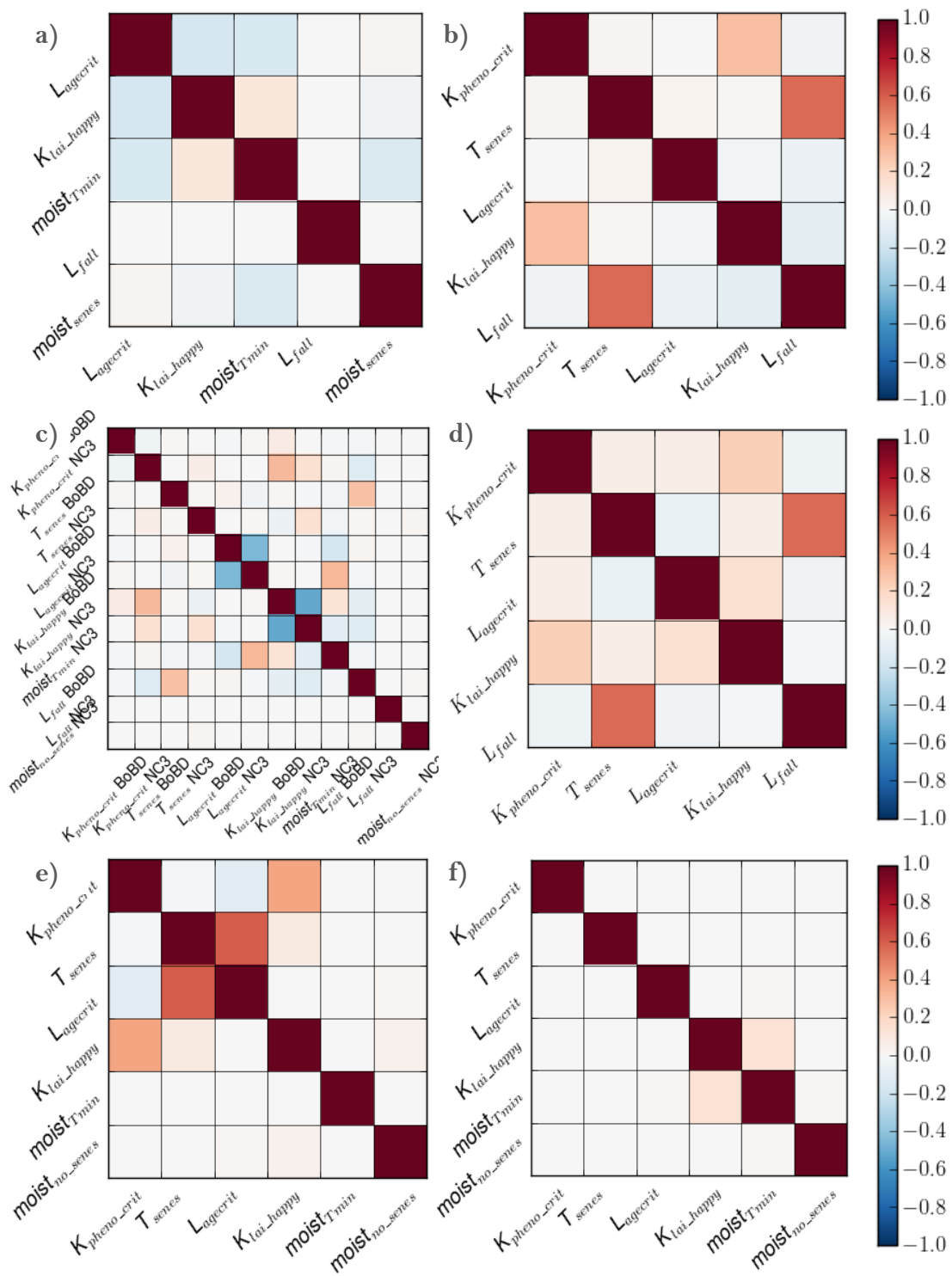
1

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).