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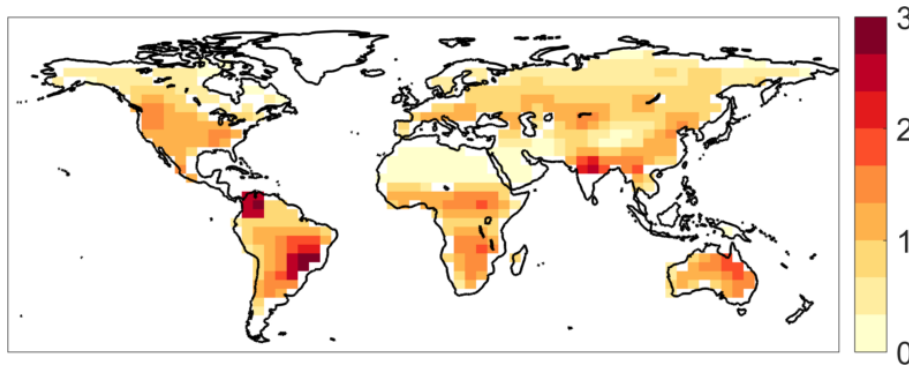
Supplement of

Global satellite-driven estimates of heterotrophic respiration

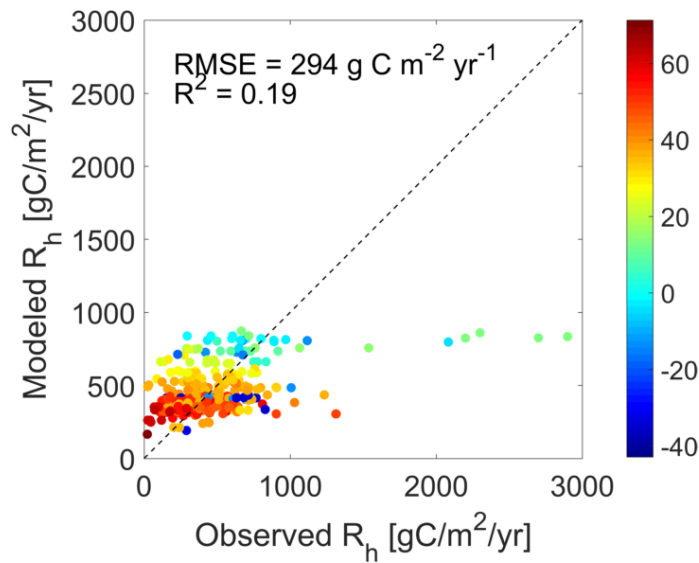
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5 **Figure S1: Root-mean-square sum of the normalized difference between the prior and posterior CMS-Flux NEP estimates (where the posterior flux is used for normalization).**



10 **Figure S2: Comparison of observed annual respiration terms at SRDB sites vs. bottom-up estimates at the same sites for (left) 1979 soil respiration sites and (right) 362 heterotrophic respiration sites. Parameters in the bottom-up equations are sequentially optimized on the entire R_s dataset. All R_h observations are then used to optimize the parameters of the R_h - R_s relationship. Each point denotes a single experiment and is colored by the experiment's latitude.**

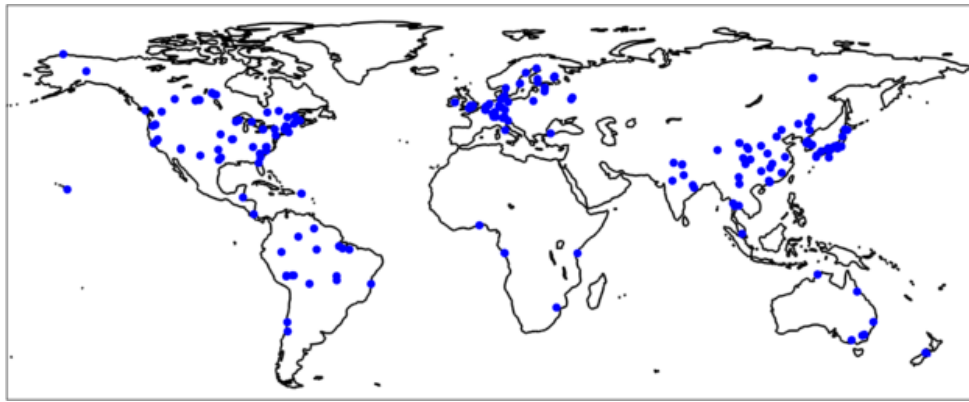


Figure S3: Locations of R_h experiments in SRDB.

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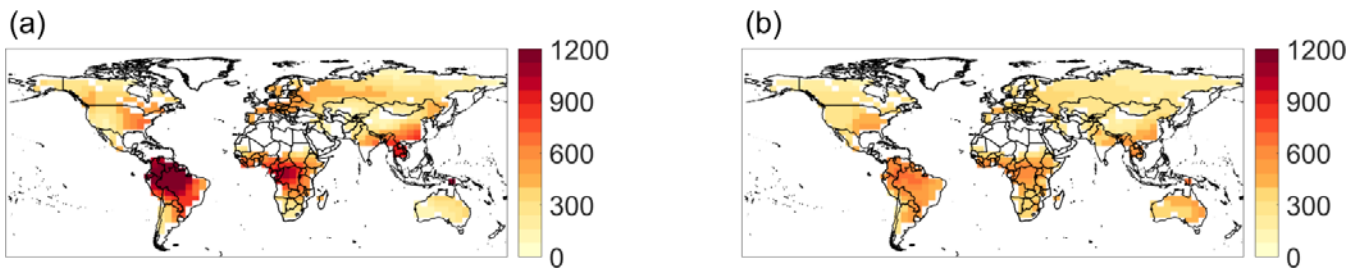


Figure S4: Mean R_h [$\text{gC m}^{-2} \text{yr}^{-1}$] from the (left) top-down and (right) bottom-up models.

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