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## Supplement of

## A study of the dependence between soil moisture and precipitation in different ecoregions of the Northern Hemisphere

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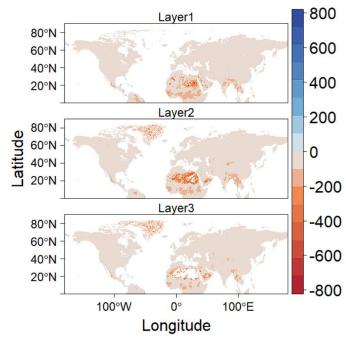


Fig. S1 The AIC value for each grid in the selection of copula function.

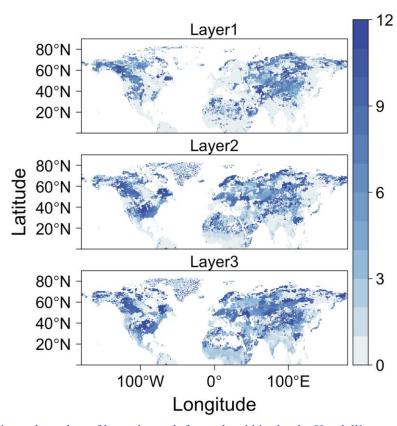


Fig. S2 The estimated number of lagged month for each grid in the Kendall's tau correlation.

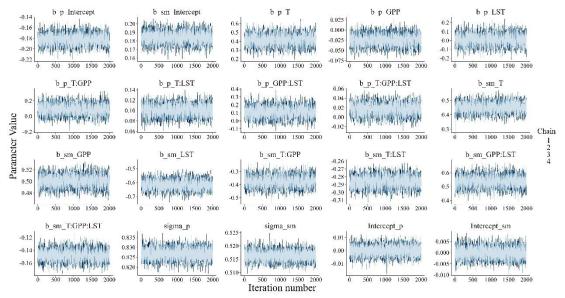


Fig. S3 Markov Chain trace plots for monthly model parameter sampling.

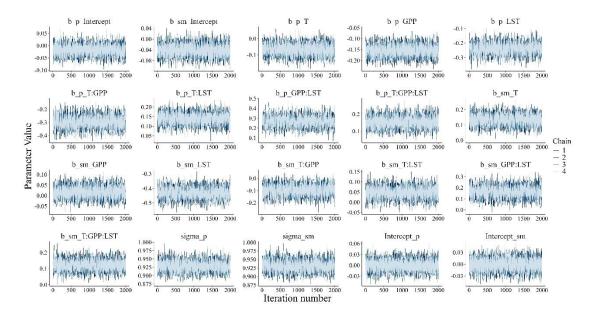


Fig. S4 Markov Chain trace plots for annual model parameter sampling.