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Supplement of

Evaluating the strength of the land–atmosphere moisture feedback in Earth system models using satellite observations

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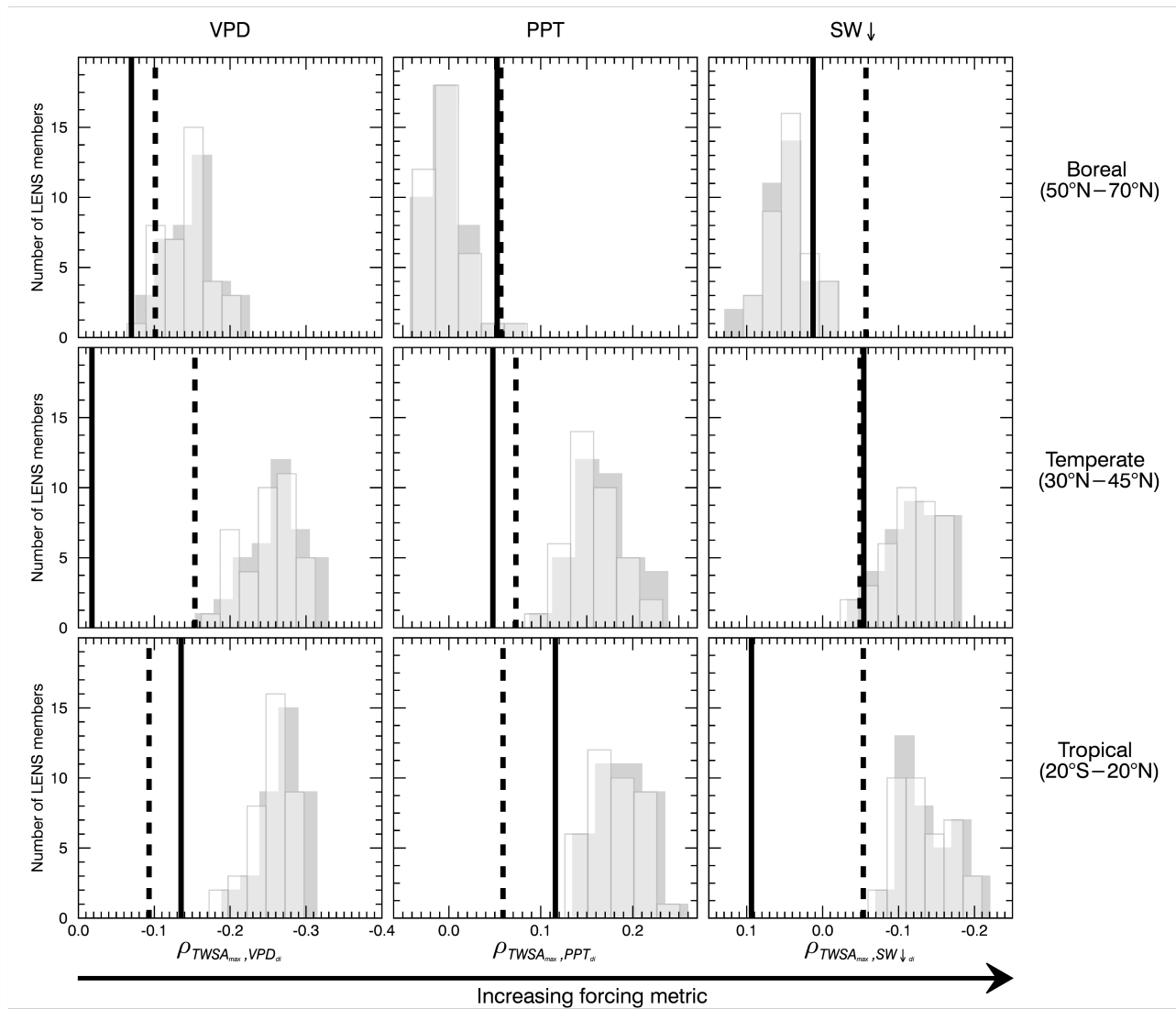


Figure S1: Ensemble histogram of forcing metrics from LENS (grey bars) and LENS plus random noise (white bars), with the satellite observations from GRACE/AIRS/GPCP/CERES (solid black line) and the alternate observations from GRACE and ERA-Interim (dashed black line), averaged across land regions within different latitude bands.

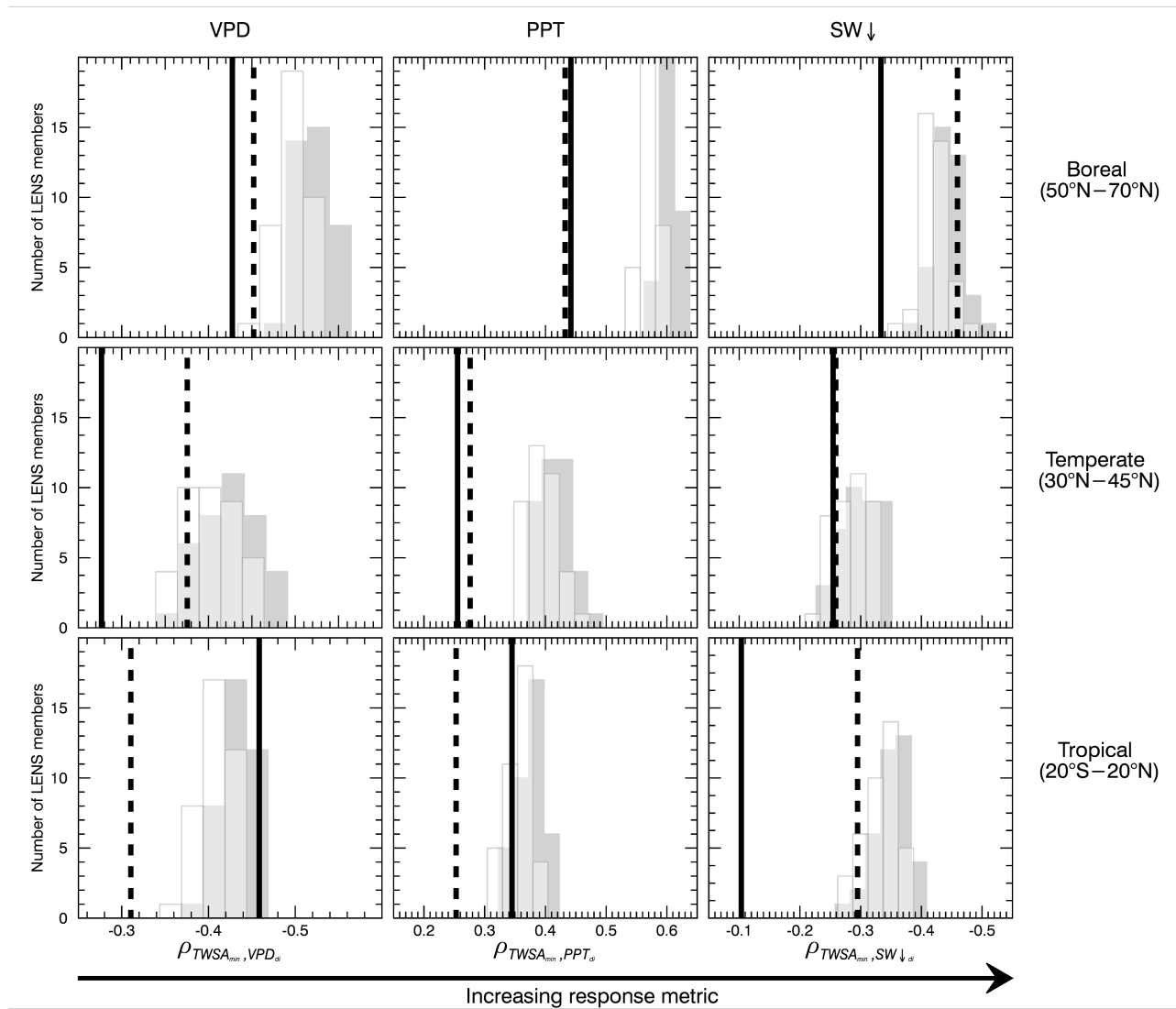


Figure S2: Ensemble histogram of response metrics from LENS (grey bars) and LENS plus random noise (white bars), with the satellite observations from GRACE/AIRS/GPCP/CERES (solid black line) and the alternate observations from GRACE and ERA-Interim (dashed black line), averaged across land regions within different latitude bands.

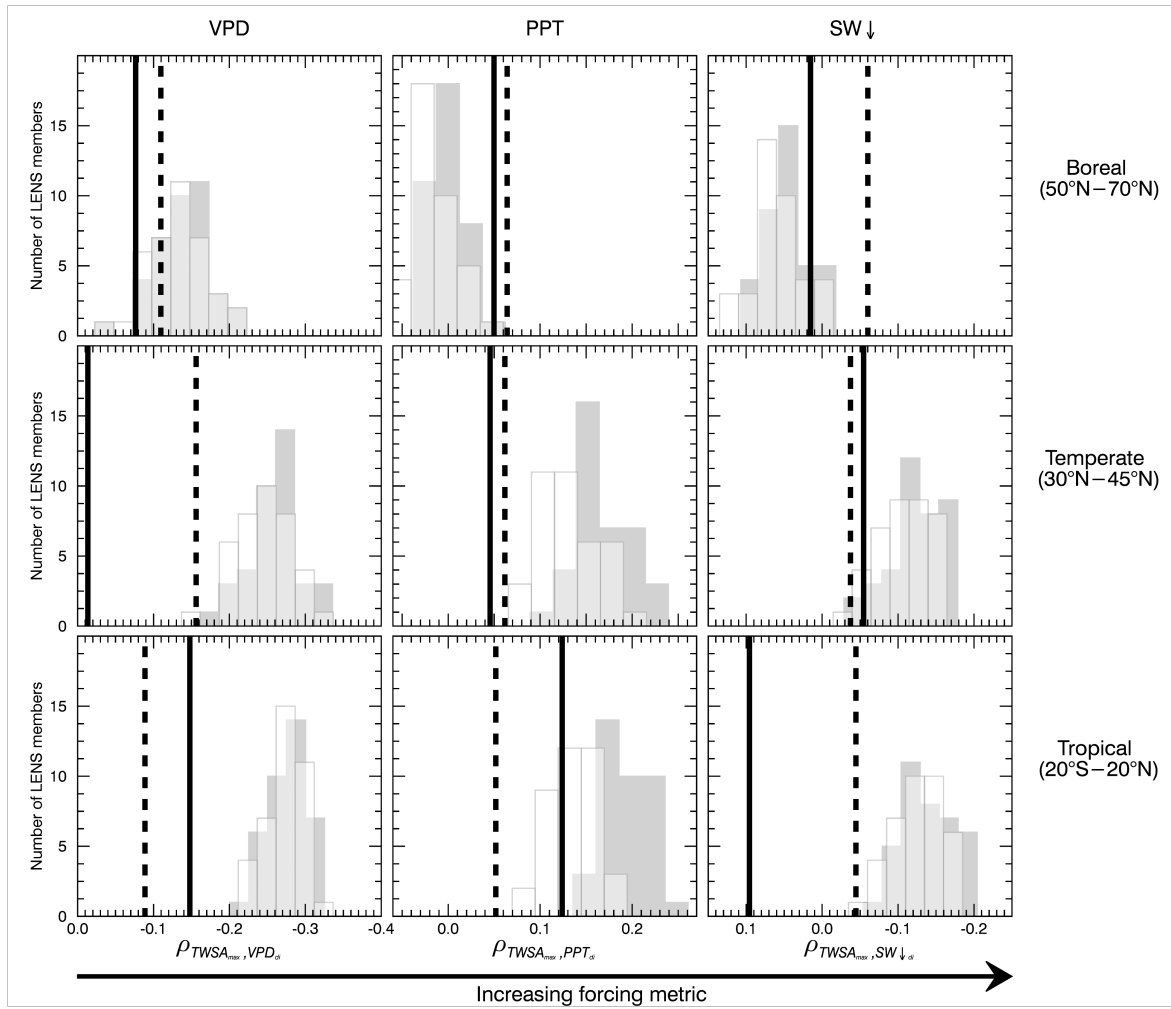


Figure S3: Ensemble histogram of forcing metrics from LENS with explicit TWS (grey bars) and accumulating residuals of the water balance (white bars) with the satellite observations from GRACE/AIRS/GPCP/CERES (solid black line) and the alternate observations from GRACE and ERA-Interim (dashed black line), averaged across land regions within different latitude bands.

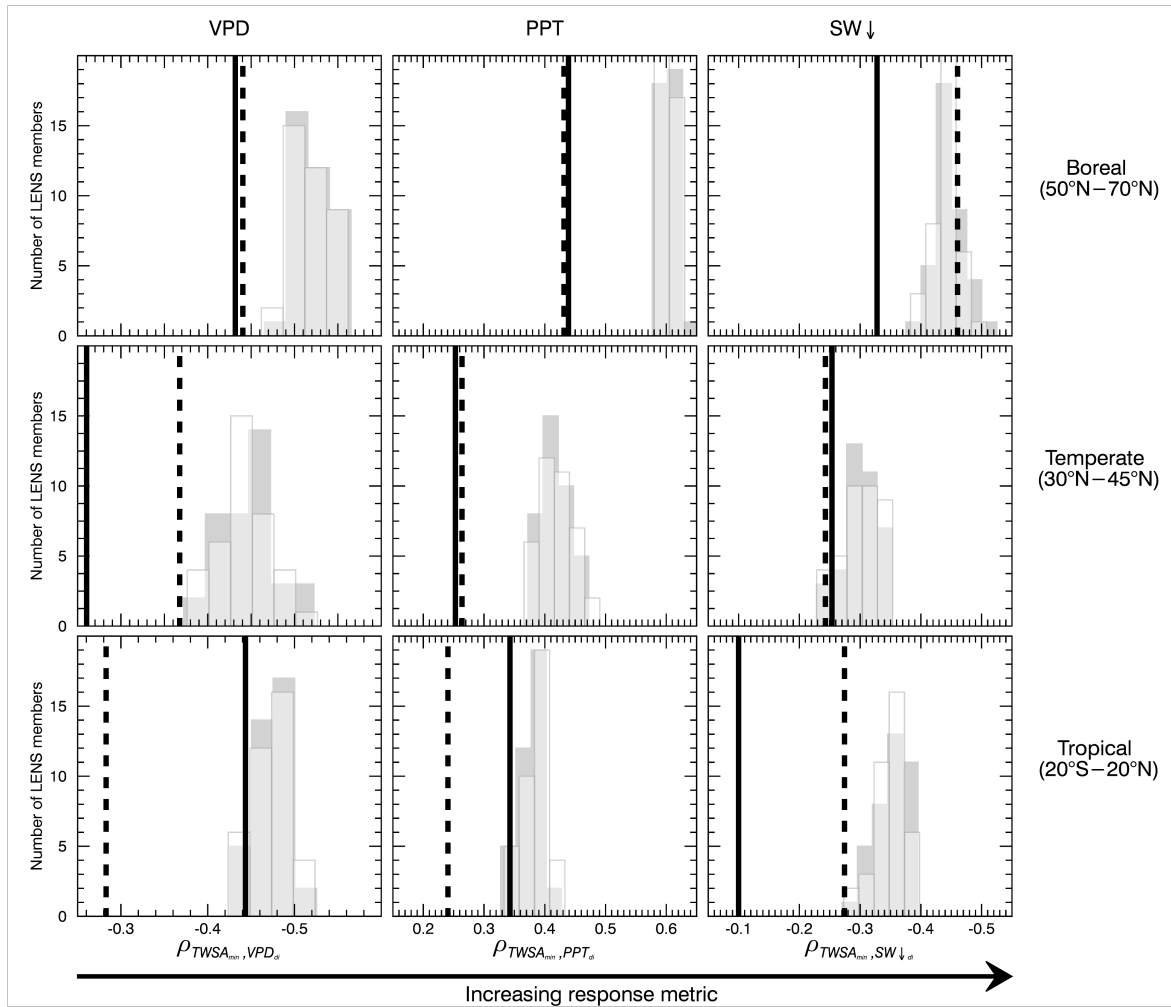


Figure S4: Ensemble histogram of response metrics from LENS with explicit TWS (grey bars) and accumulating residuals of the water balance (white bars) with the satellite observations from GRACE/AIRS/GPCP/CERES (solid black line) and the alternate observations from GRACE and ERA-Interim (dashed black line), averaged across land regions within different latitude bands.