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Characterizing variability and vertical structure of water vapor in the extratropical lower stratosphere

Emily Nicole Tinney et al.

Correspondence to: Emily Nicole Tinney (etinney@ucar.edu)

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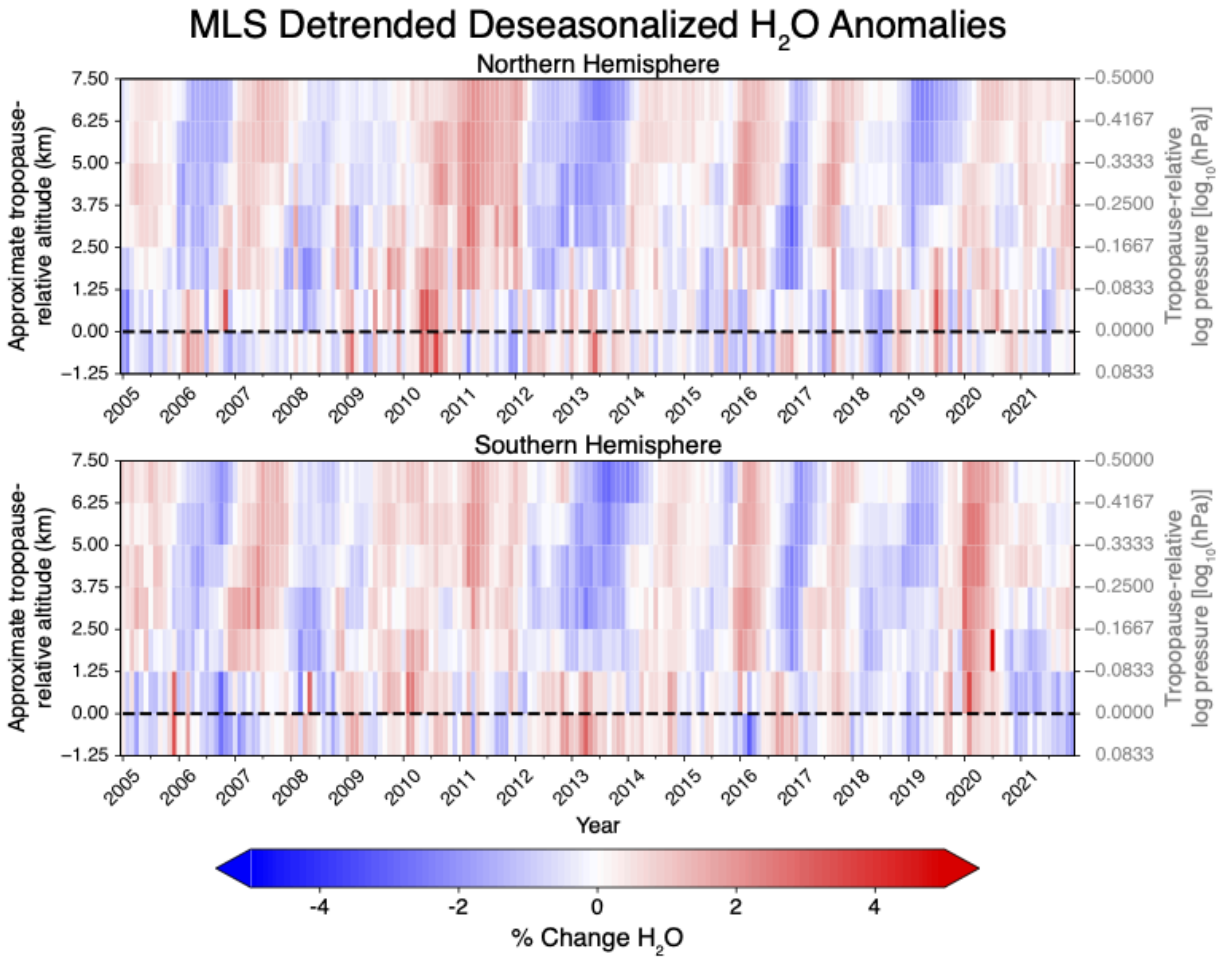


Figure S1. Time series of deseasonalized and detrended ExTL area-averaged MLS anomalies in tropopause-relative coordinates for (a) the NH and (b) the SH. Results at each level are expressed in percent deviations from the respective time mean background values.

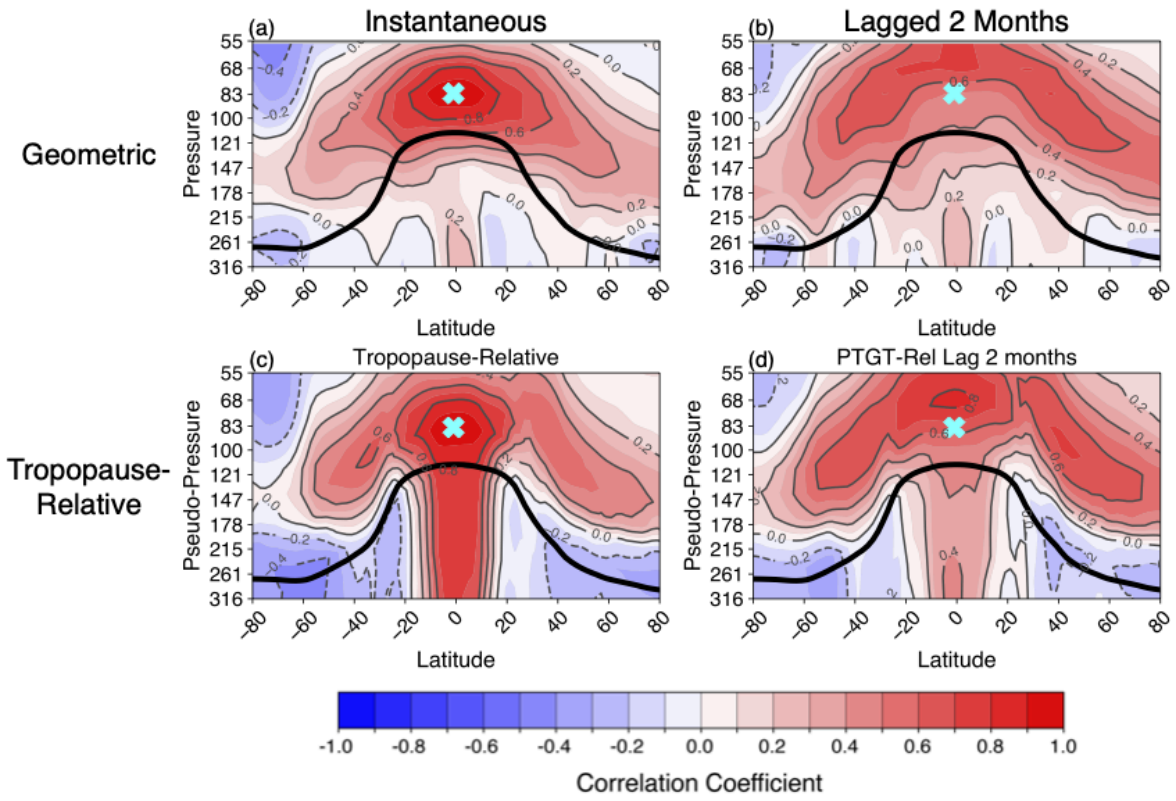


Figure S2. Correlation of deseasonalized WACCM water vapor anomalies at each point with the anomaly near the tropical tropopause (teal X; 83 hPa). Correlations are shown in both (top) tropopause-relative and (bottom) geometric coordinate systems at (left) zero-time lag and (right) a two-month time lag.

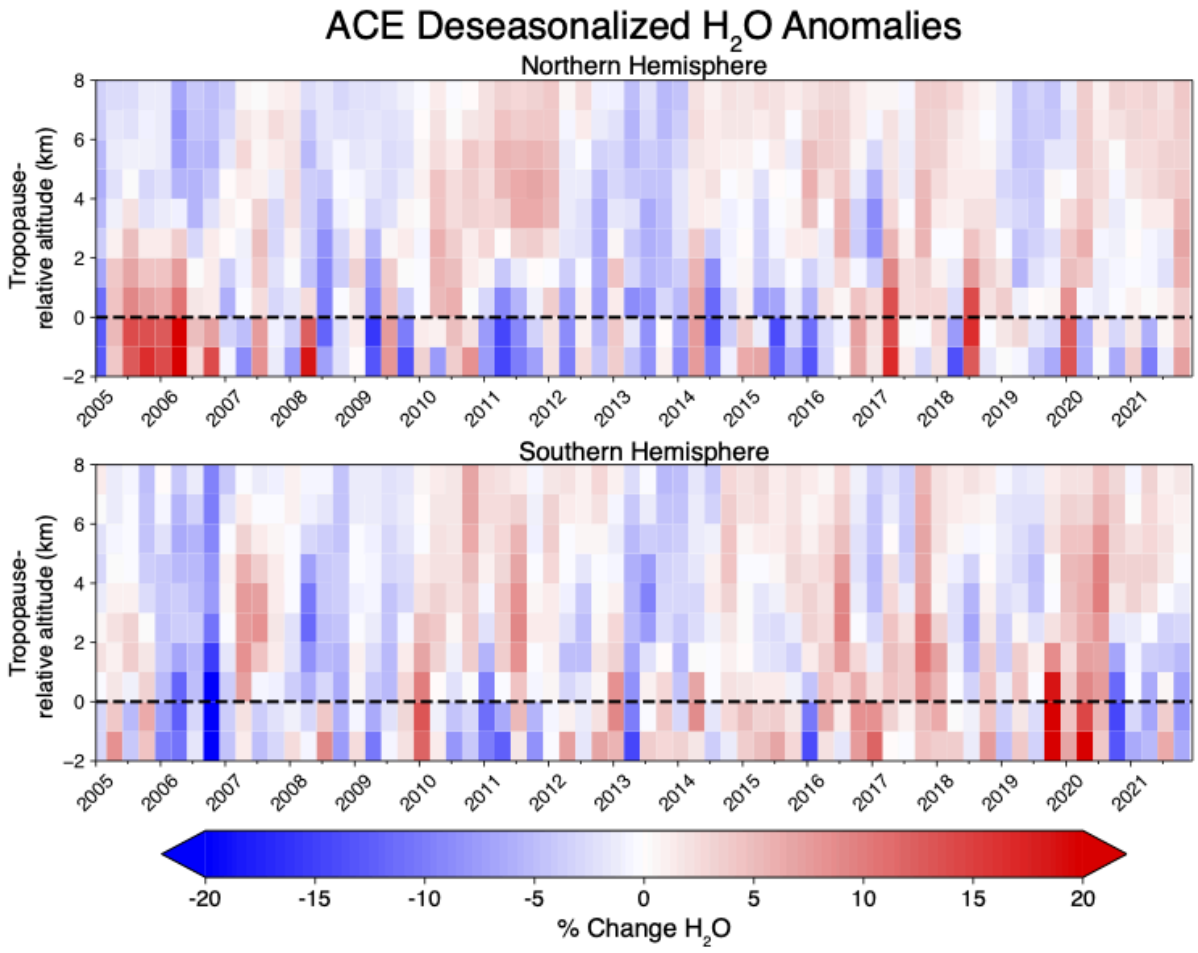


Figure S3. Time series of deseasonalized ExTL area-averaged ACE anomalies in tropopause-relative coordinates for (a) the NH and (b) the SH. Results at each level are expressed in percent deviations from the respective time mean background values.

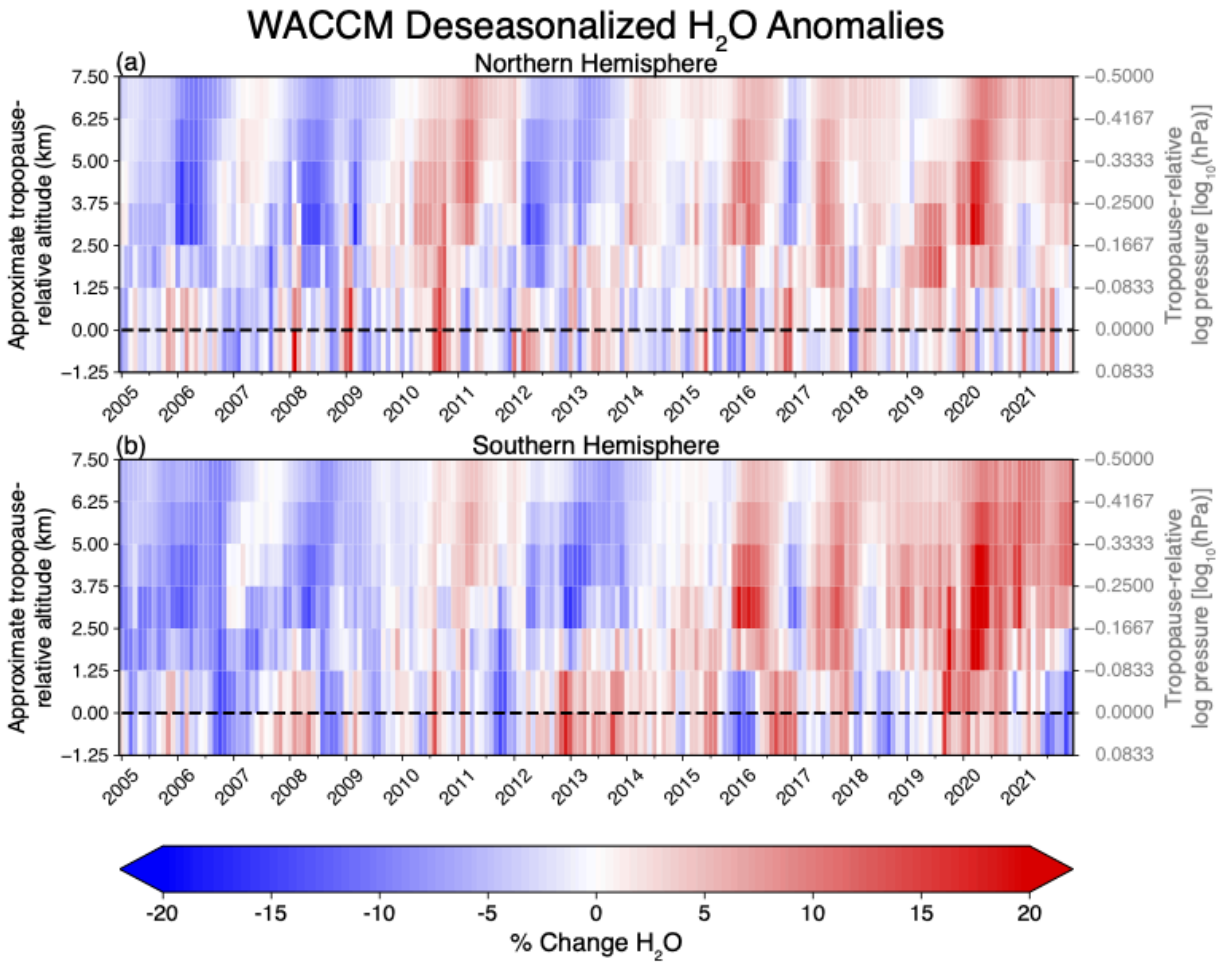


Figure S4. As in Fig. S3, but for WACCM.