



Supplement of

Influence of the El Niño–Southern Oscillation on entry stratospheric water vapor in coupled chemistry–ocean CCMI and CMIP6 models

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Figure S1. Evolution of El Nino and La Nina for the composites used in the main text. CCMI models are designated with a thick line, and CMIP6 with a thin line.

The supplement contains the evolution of temperature anomalies in the Nino3.4 region for the composites included in the paper, temperature anomalies at 70hPa and 100hPa for each of the CCMI models considered in this paper, and a figure analogous to Figure 4 in the main text but for a four month lag.

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Figure S2. Map view of the temperature anomalies in (left) EN and (right) LN at 70hPa for the CCMI models.

Figure S3. Map view of the temperature anomalies in (left) EN and (right) LN at 100hPa for the CCMI models.

Figure S4. Correlation of (left) near-surface temperature and (right) temperature near 500hPa with entry water vapor in each of the CCMI models, with temperature taken for January and February and water vapor in May and June. A black line indicates correlations significantly different from zero at the 95% confidence level.