The influence of CO$_2$ forcing on North American monsoon moisture surges

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Supplementary material

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Supplementary Fig. 1: Composites of (a,c,e) precipitation (color shading) and 10-m wind anomalies (arrows) and (b,d,f) 500-hPa geopotential height (color shading and green contours) and wind anomalies the day after the onset (day 1) of a GoC surge with mean precipitation intensity $p_{su} < p_{50}$. Color shading and wind anomalies are shown only where composites are statistically significant at the 5% level according to a two-tailed $t$-test. Composites are shown for MERRA (a,b), FLOR-FA (c,d) and FLOR (e,f).
Supplementary Fig. 2: As in Fig. 2 but for $p_{50} \leq p_{au} < p_{95}$
Supplementary Fig. 3: As in Fig. 3 but for $p_{95} \geq p_{95}$. Green contours in (a,c,d) denote regions where precipitation anomalies exceed 8 mm d$^{-1}$.