

Investigating the impact of land surface characteristics on monsoon dynamics with idealized model simulations and theories: Supplemental Material

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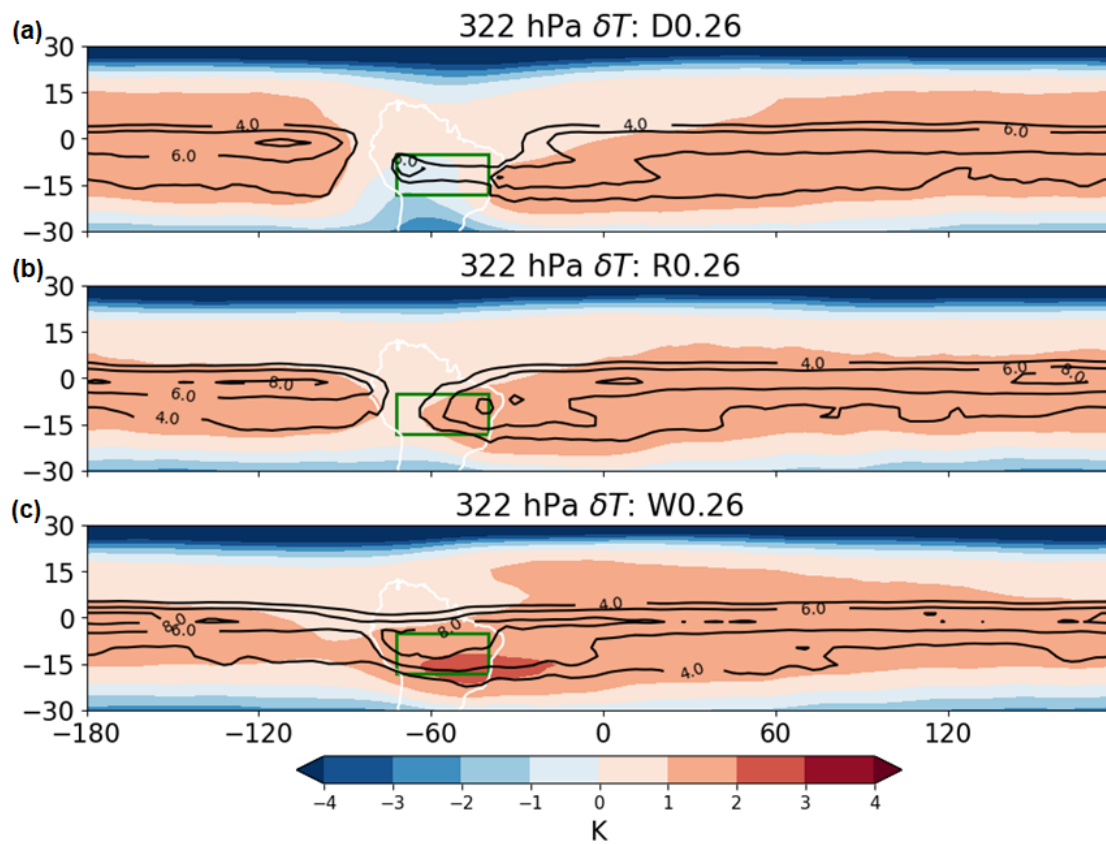


Fig. S1. JFM distributions of free-tropospheric (322 hPa) temperature minus the tropical mean (30° S to N) value (shading) and precipitation in mm d⁻¹ (contours) in each of the three base-line experiments. The green box outlines the monsoon sector.

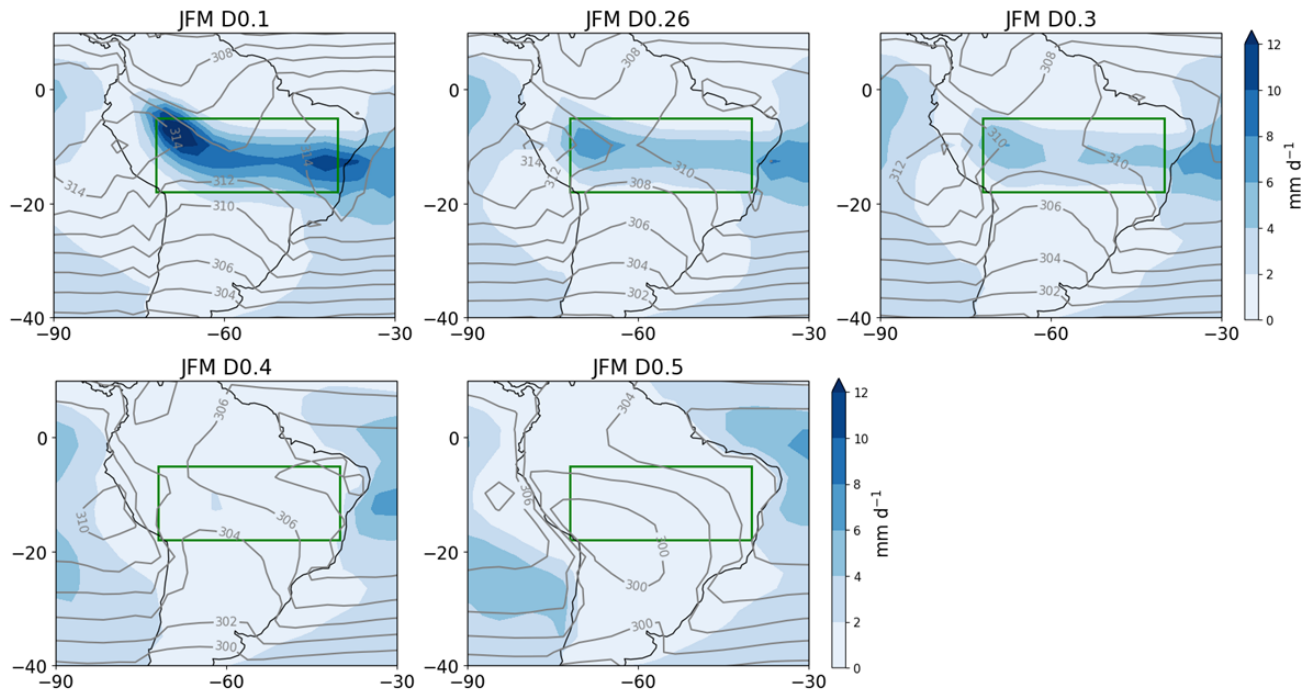


Fig. S2. The JFM spatial distribution of precipitation (shading) and MSE (contours) in the D0.1-D0.5 albedo perturbation experiments. The green box outlines the monsoon sector.

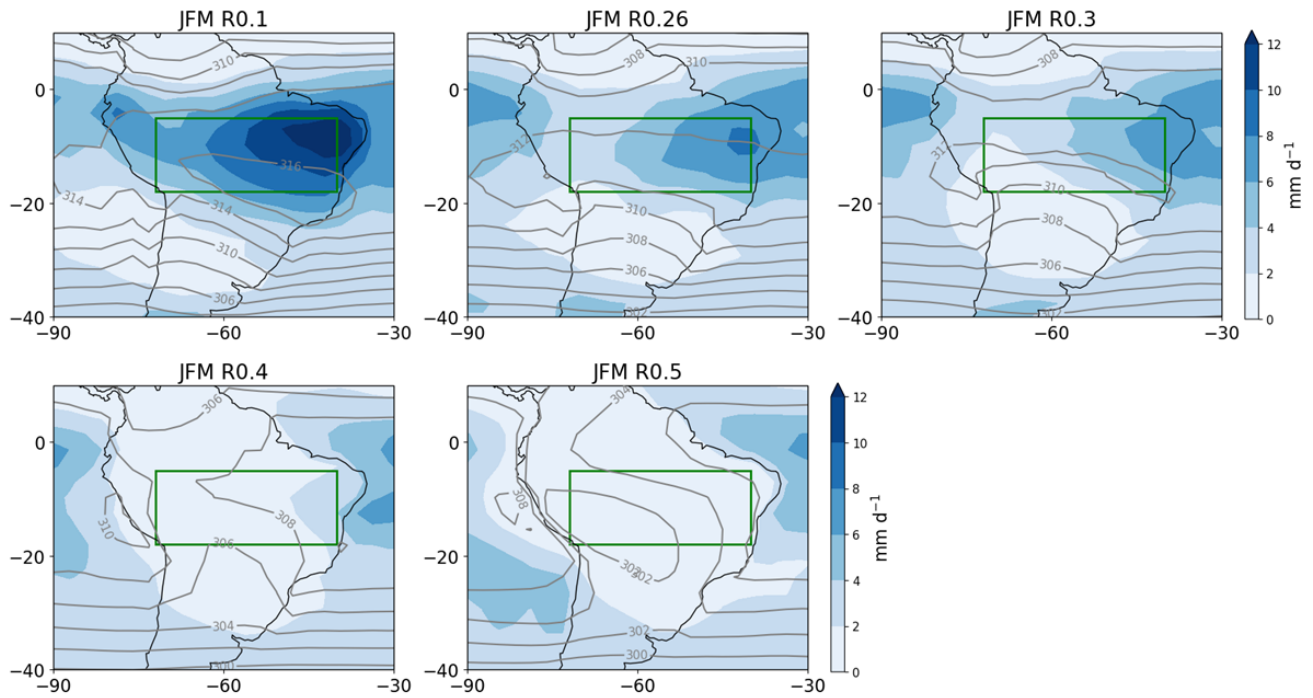


Fig. S3. Same as Fig. S2, but for R0.1- R0.5.

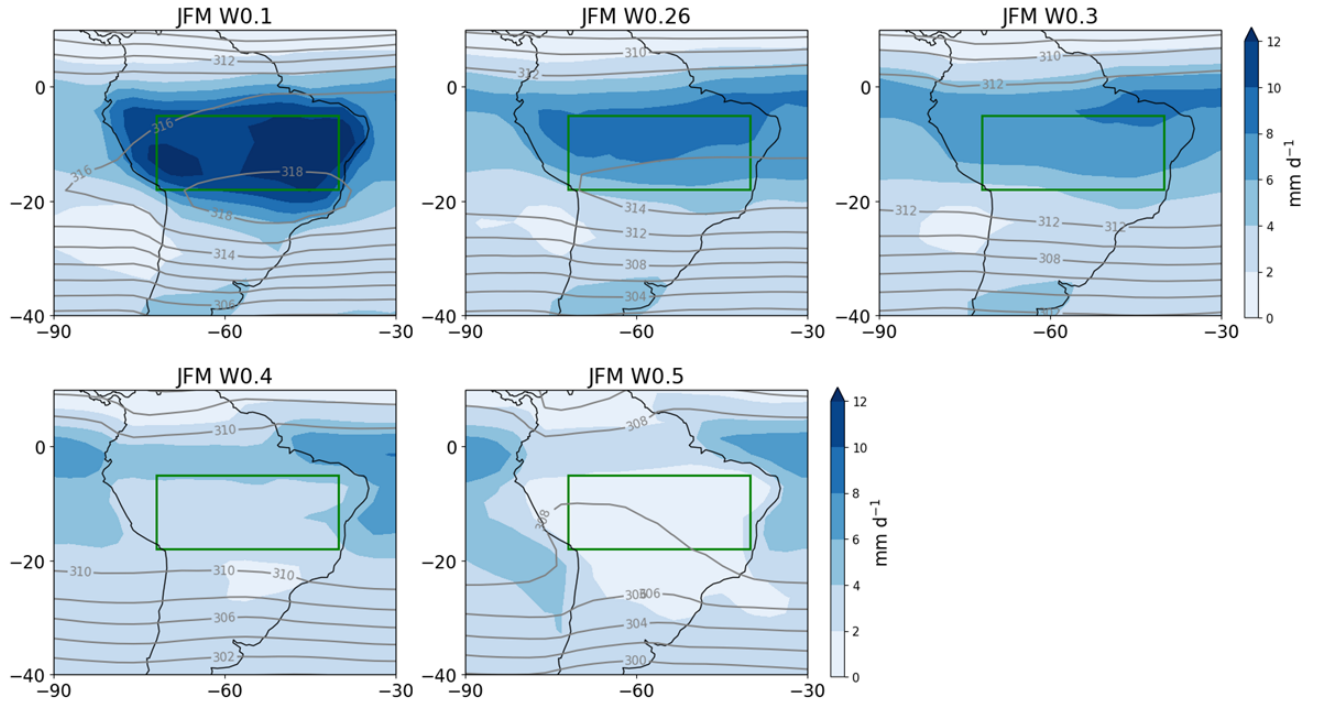


Fig. S4. Same as Fig. S2, but for W0.1- W0.5.

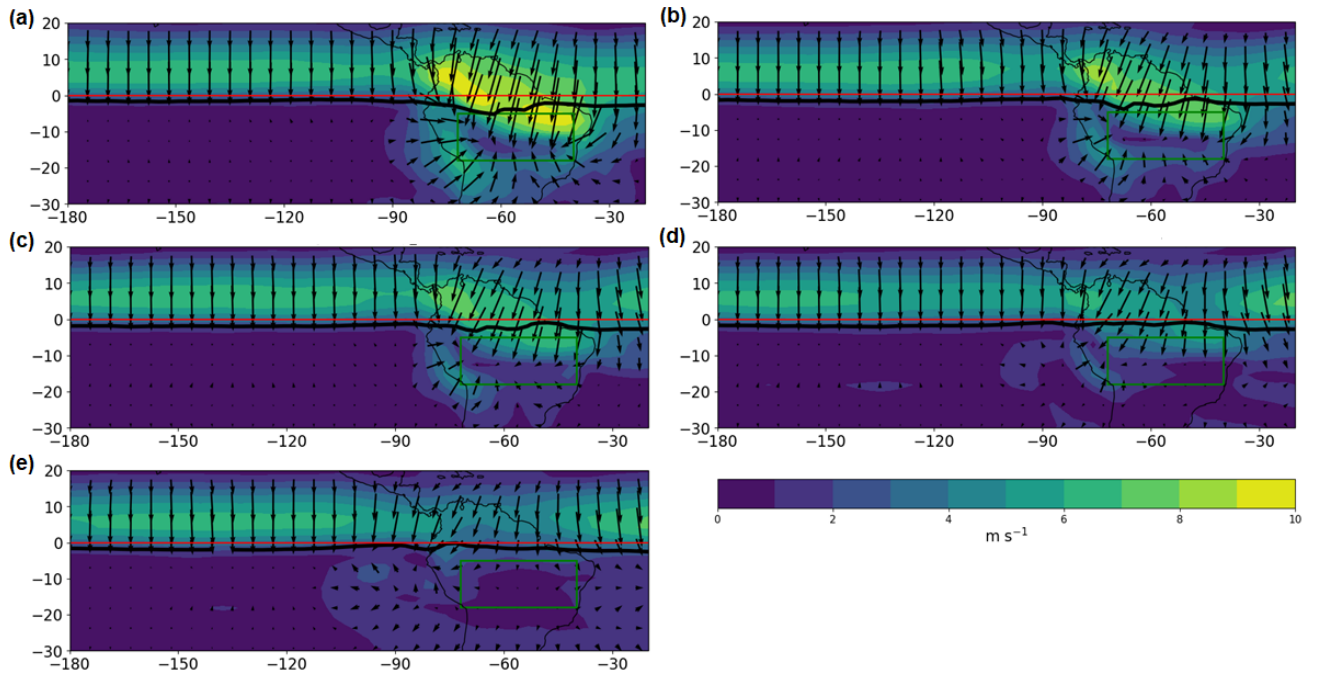


Fig. S5. February near-surface (921 hPa) divergent winds (vectors) and divergent wind speed (shading) in (a) D0.1, (b) D0.26, (c) D0.3, (d) D0.4, and (e) D0.5.