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*Geophysical Research Letters*

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Supporting Information for the article

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**Transient Response of MJO Precipitation and Circulation to  
Greenhouse Gas Forcing**

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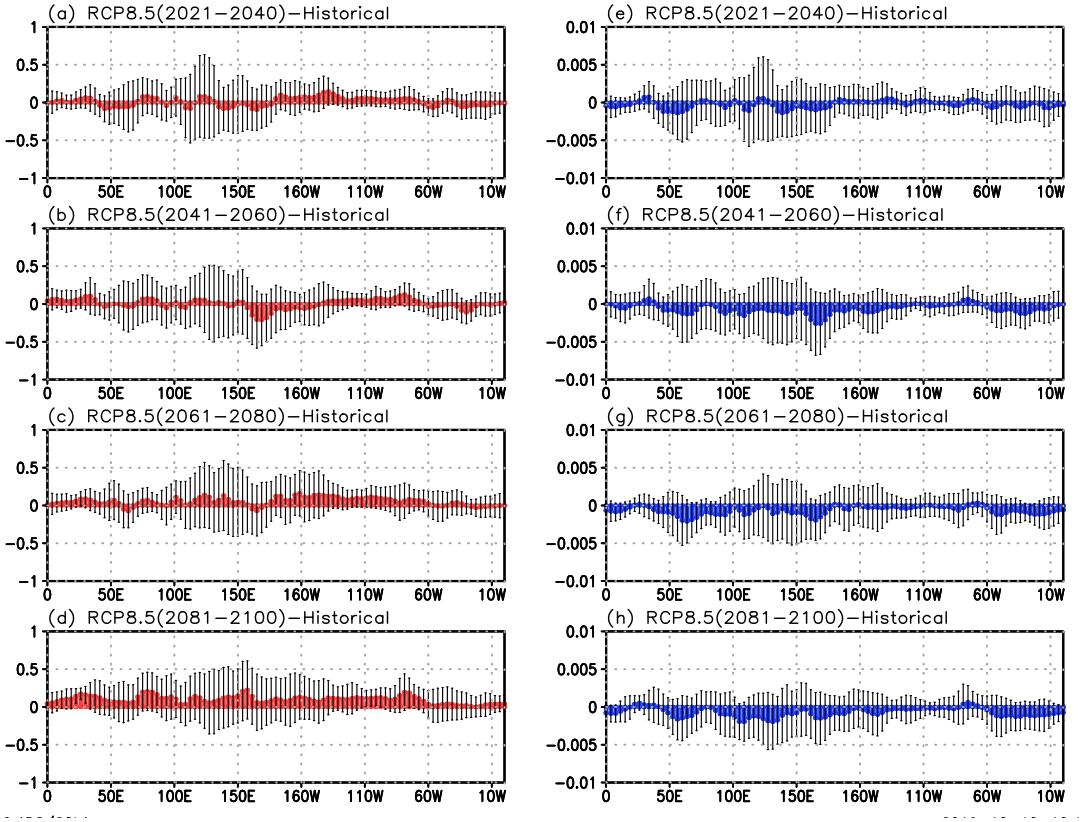
7      Department of Atmospheric Science, Colorado State University, Fort Collins, Colorado,

8

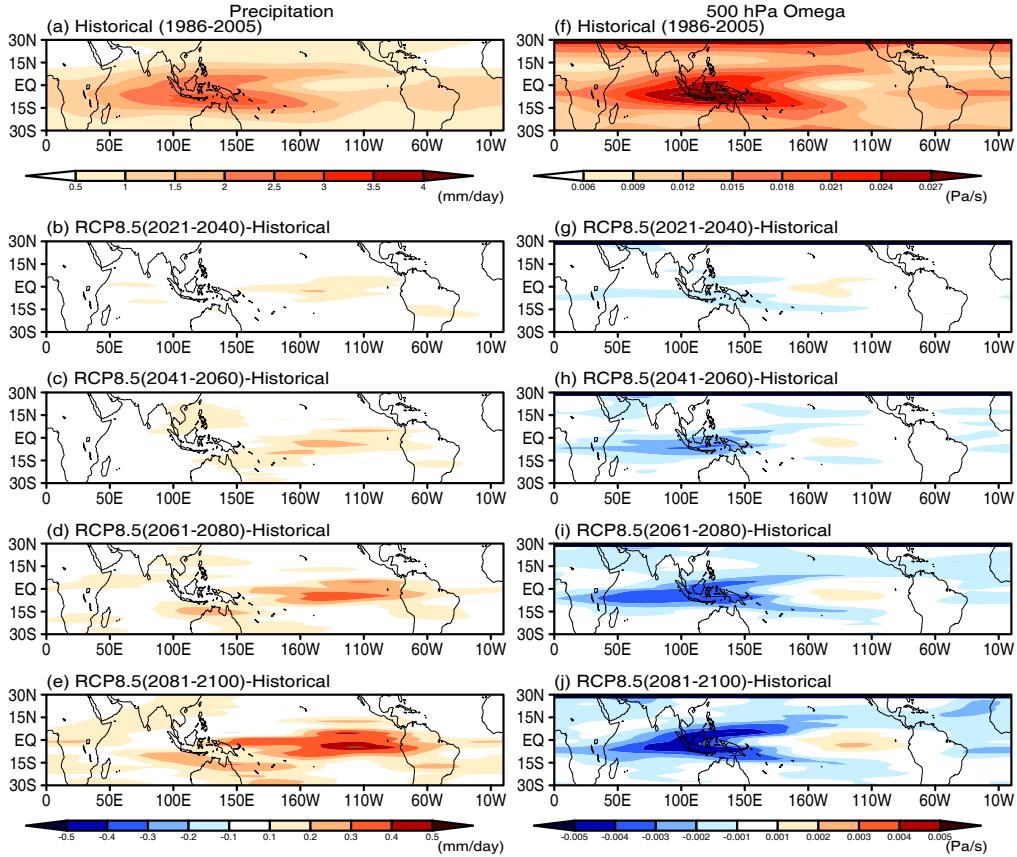
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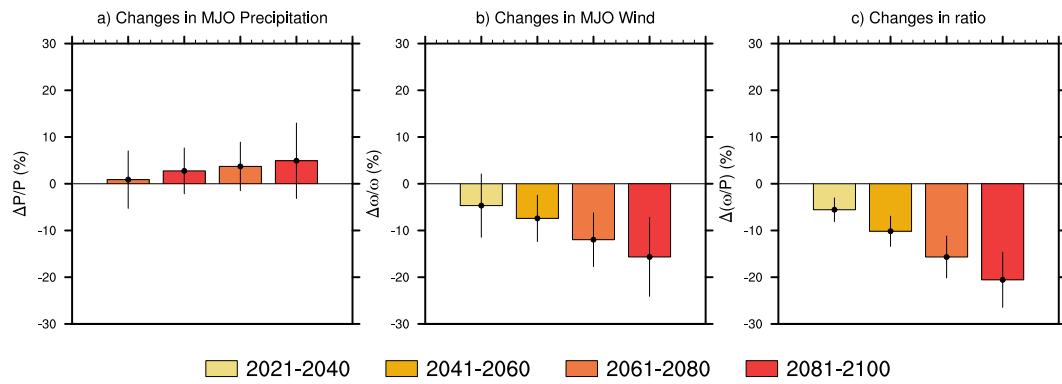
\*Corresponding author: Hien X. Bui, Email: [hien.bui@colostate.edu](mailto:hien.bui@colostate.edu)



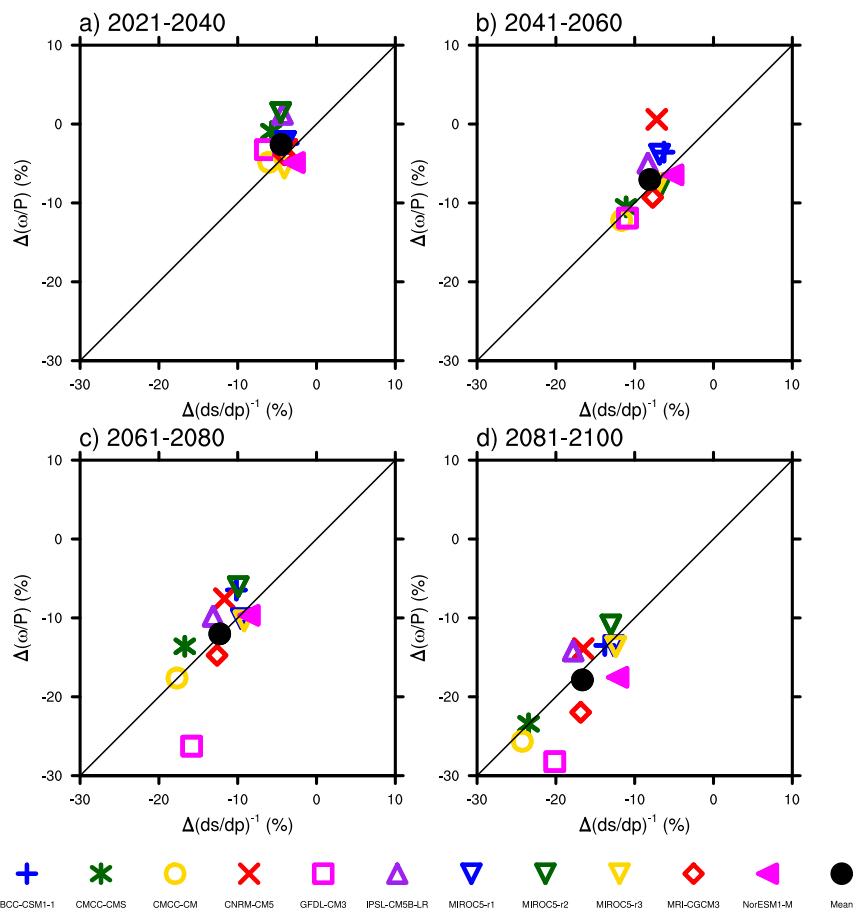
10 **Figure S1:** Multimodel mean  $15^{\circ}\text{S}$ - $15^{\circ}\text{N}$  averaged MJO precipitation change (left panels,  
 11 units are  $\text{mm day}^{-1}$ ) and 500 hPa omega change (right panels, units are  $\text{Pa s}^{-1}$ ) relative to  
 12 the historical period for different decades of the 21<sup>st</sup> Century. The bars represent the  
 13 standard deviation across models. Note that the result at each grid point is a weighted  
 14 average of the grid point plus the 8 surrounding points.



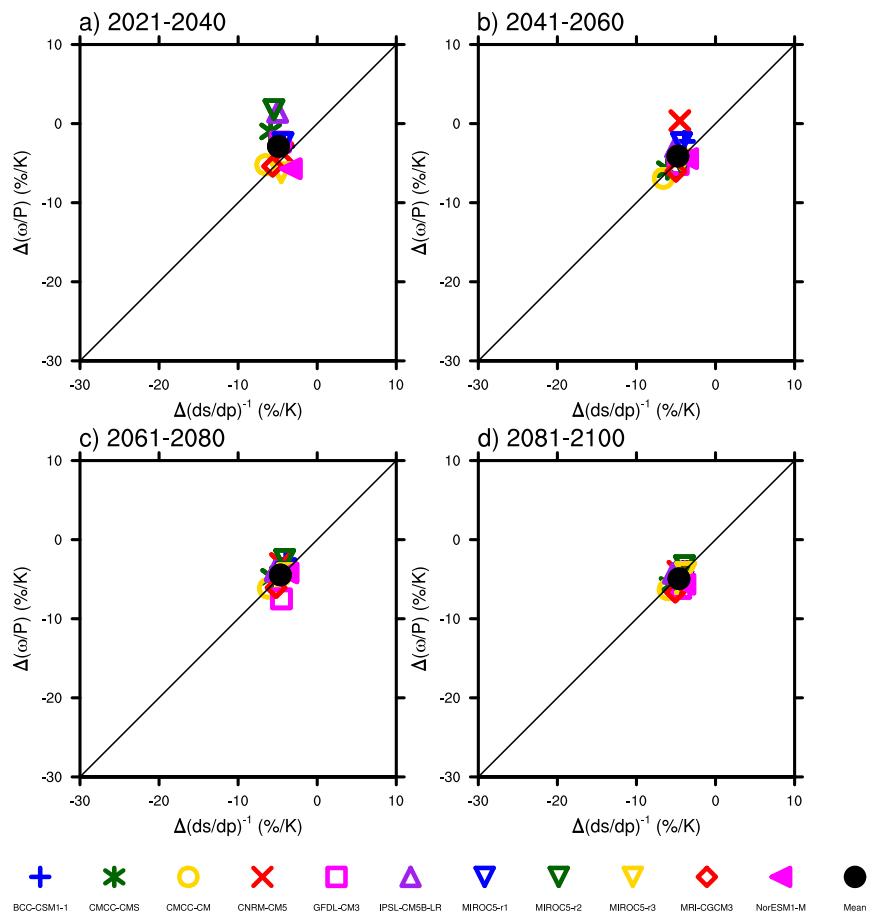
15      **Figure S2:** Same as Fig.1, but the MJO is defined using the STD of 30-90 day and  
 16      eastward wavenumber 1-5 MJO filtered data.



17 **Figure S3:** Same as Fig.2, but the MJO is defined using the STD of 30-90 day and  
 18 eastward wavenumber 1-5 MJO filtered data.

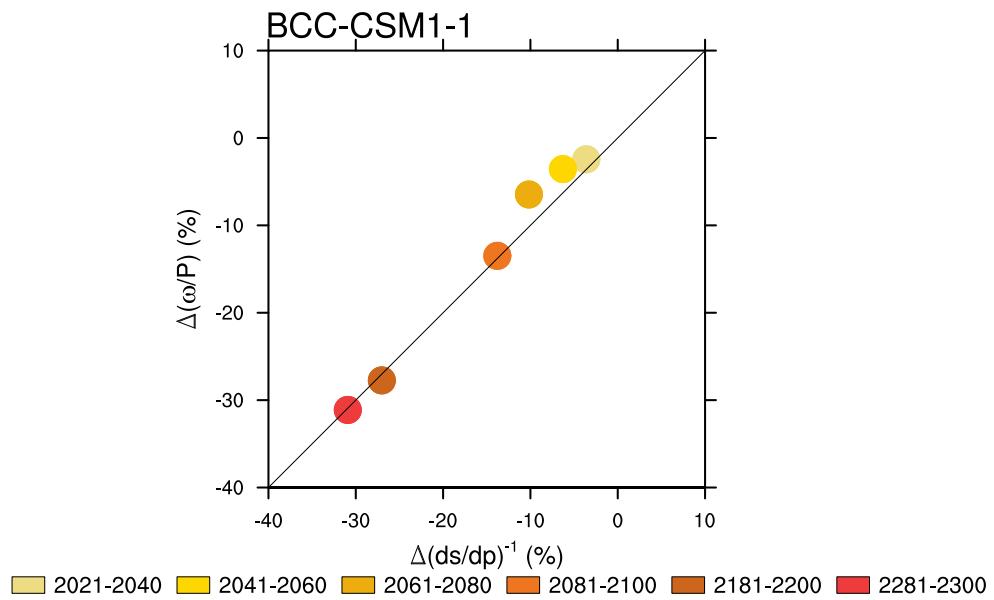


19 **Figure S4:** Same as Fig. 4a, but for each CMIP5 model. Units are %.



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**Figure S5:** Same as Fig. 4b, but for each CMIP5 model. Units are  $\% \text{ K}^{-1}$ .



21      **Figure S6:** Same as Fig. 4a, but for one model (BCC-CSM1-1) that has an RCP8.5  
 22      simulation to year 2300, with the periods 2181-2200 and 2281-2300 shown. Units are %.