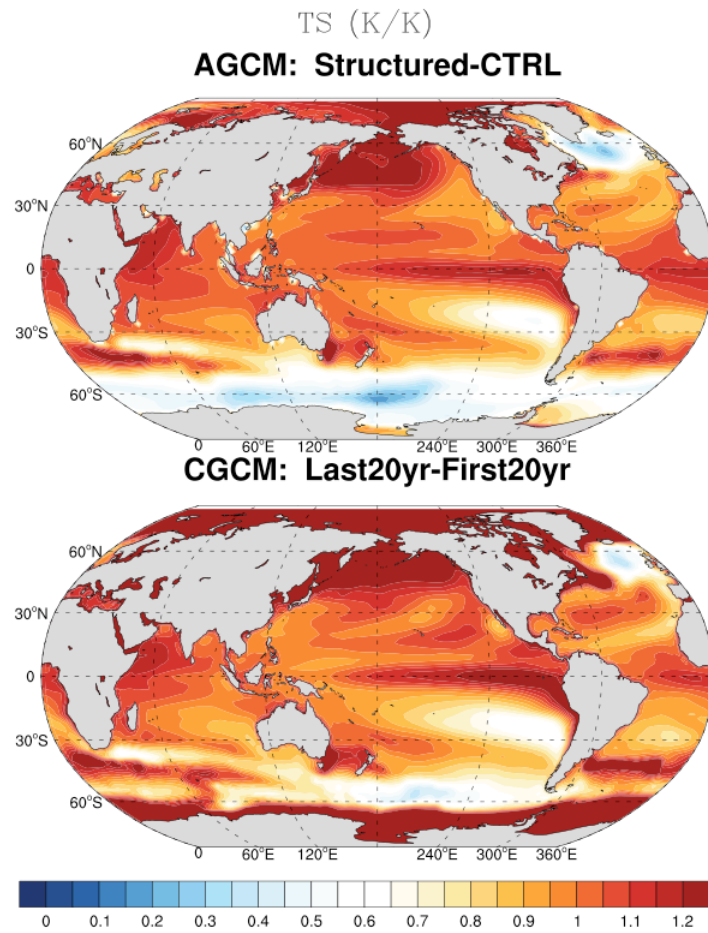


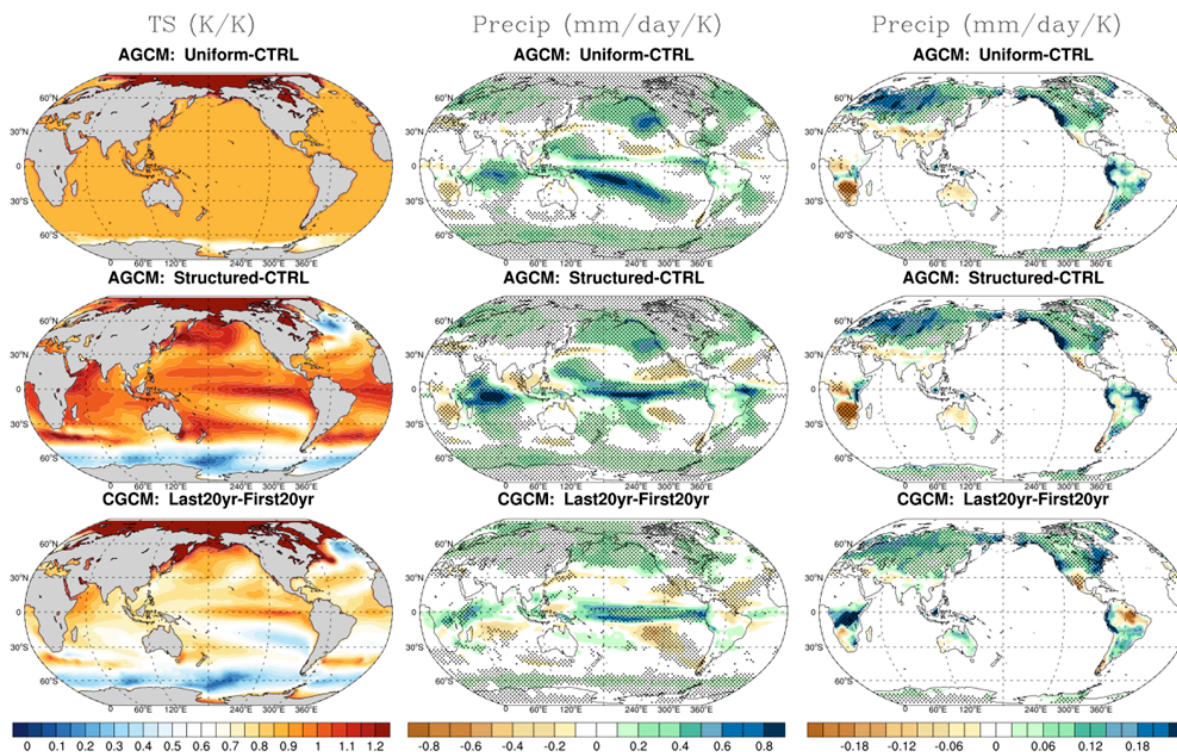
# The Robustness of the Atmospheric Circulation and Precipitation Response to Future Anthropogenic Surface Warming

(Supplementary Materials)



**Figure A.** Ensemble mean pattern of surface temperature increase in the structured AGCM simulations (top) and CGCM simulations (bottom) scaled by the tropical mean SST increase.

### Results for DJF



### Results for JJA

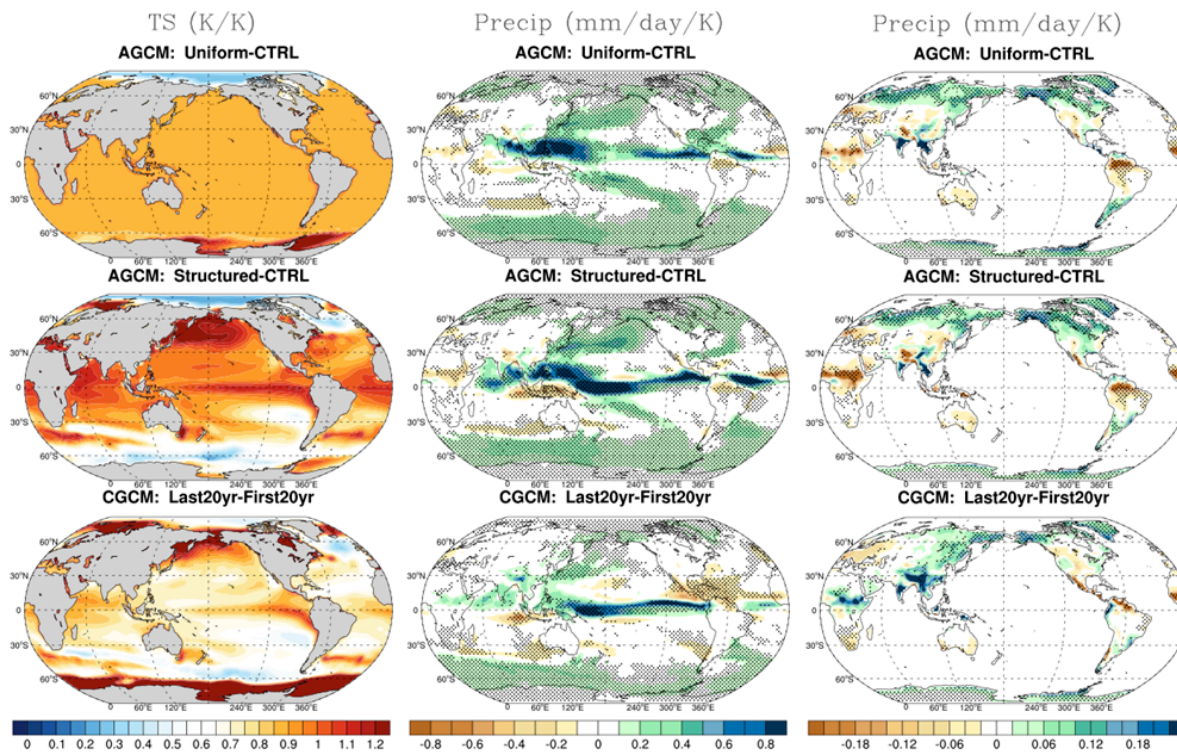
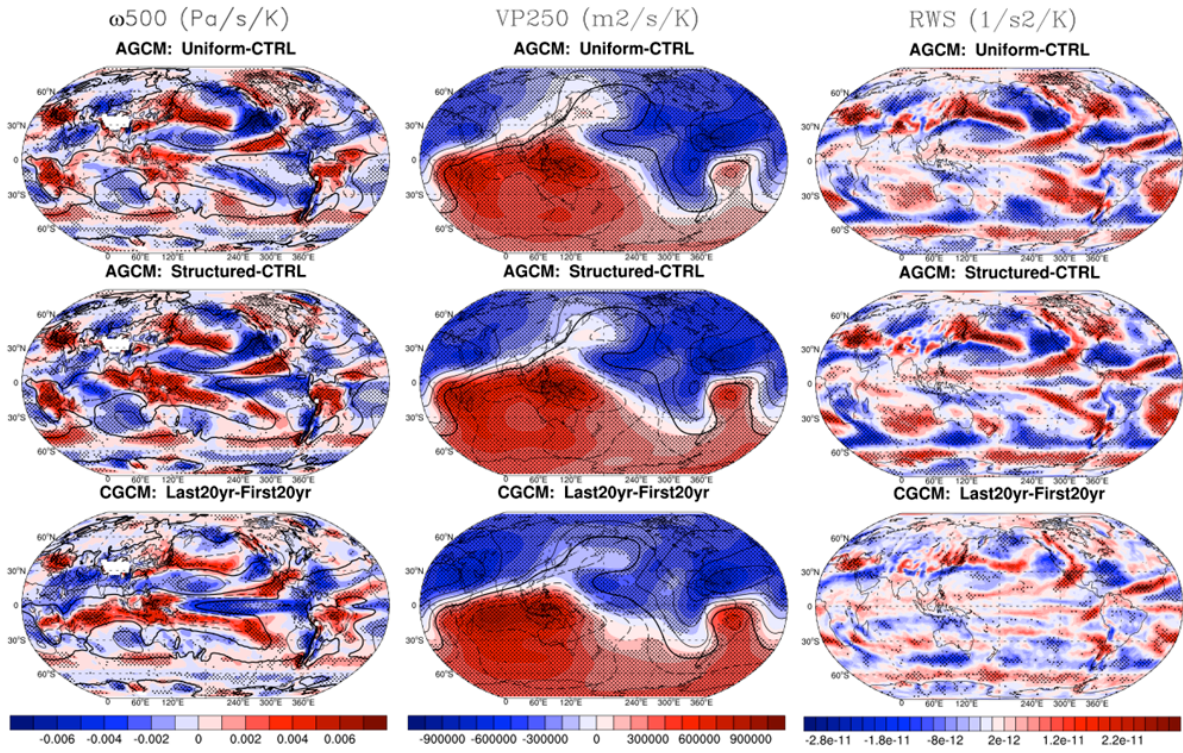


Figure B. Same as Figure 1 in the paper, except for DJF (top) and JJA (bottom).



### Results for DJF



### Results for JJA

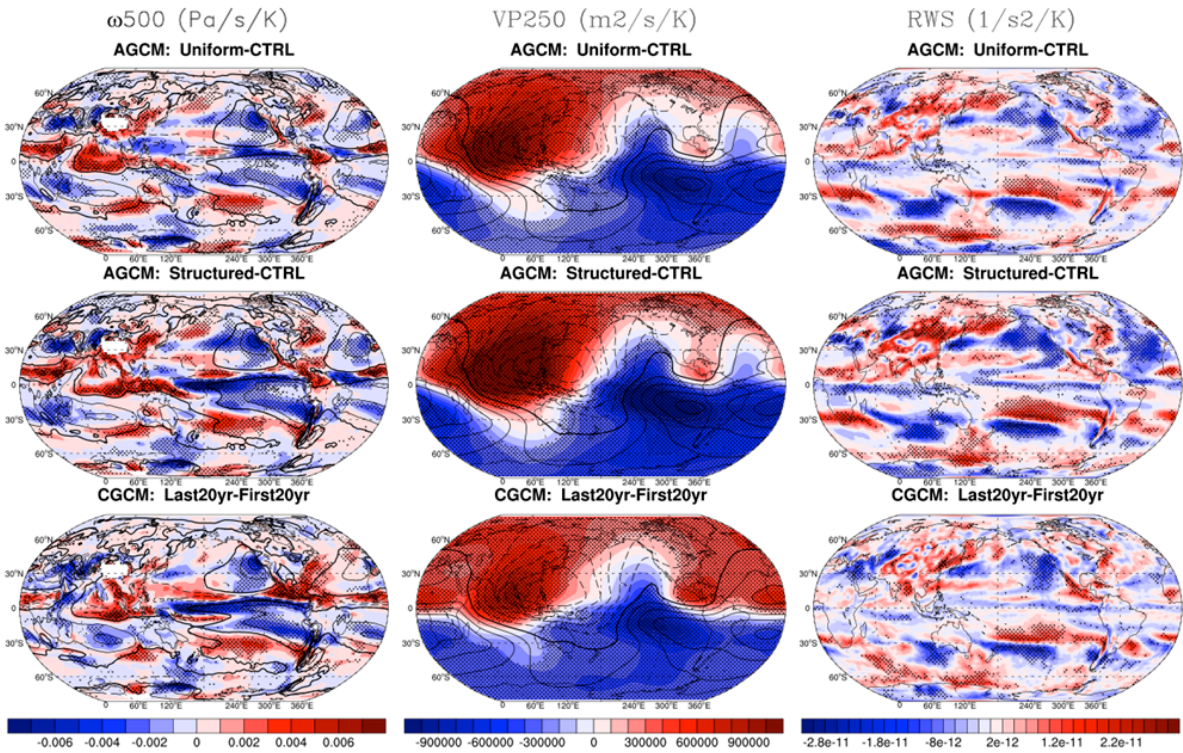
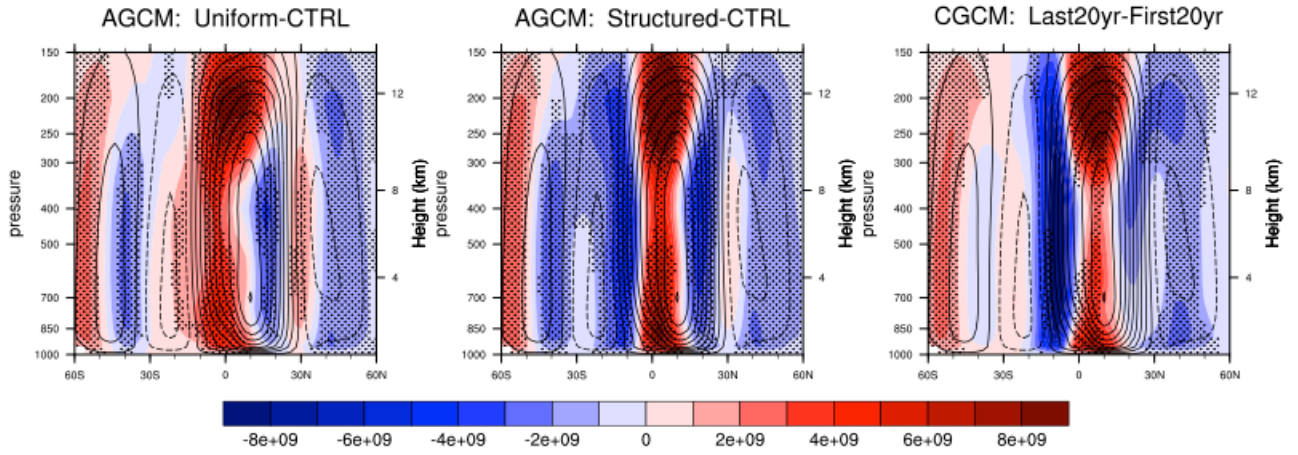


Figure C. Same as Figure 2 in the paper, except for DJF (top) and JJA (bottom).

Results for DJF  
psi Change (kg/s/K)



Results for JJA  
psi Change (kg/s/K)

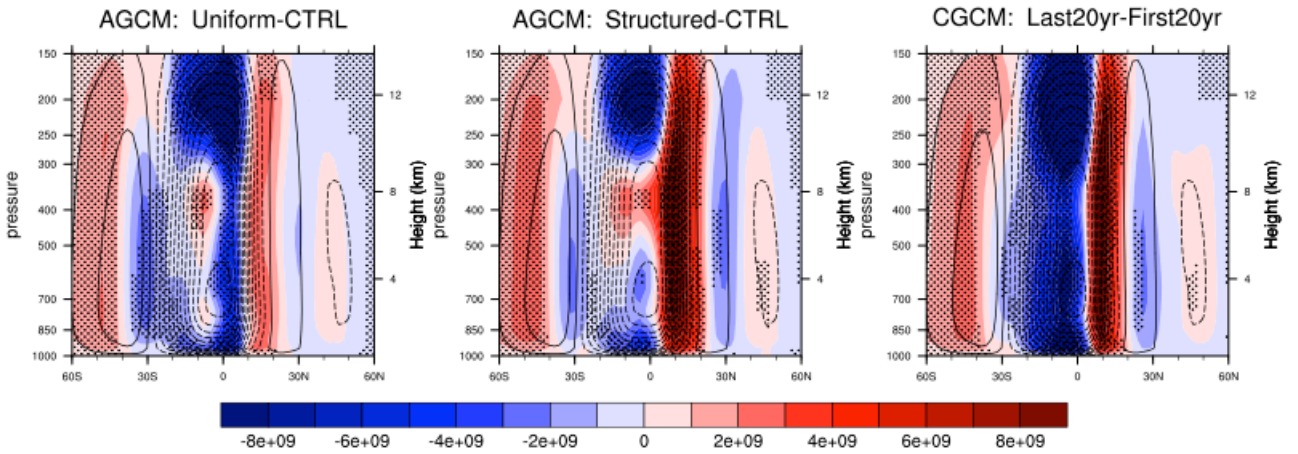
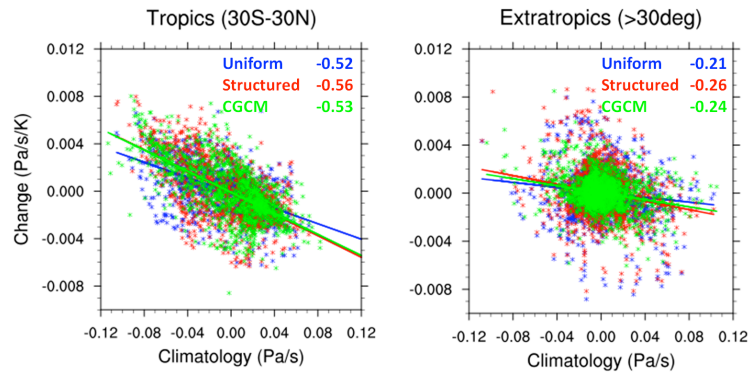


Figure D. Same as Figure 4 in the paper, except for DJF (top) and JJA (bottom).



### Results for DJF



### Results for JJA

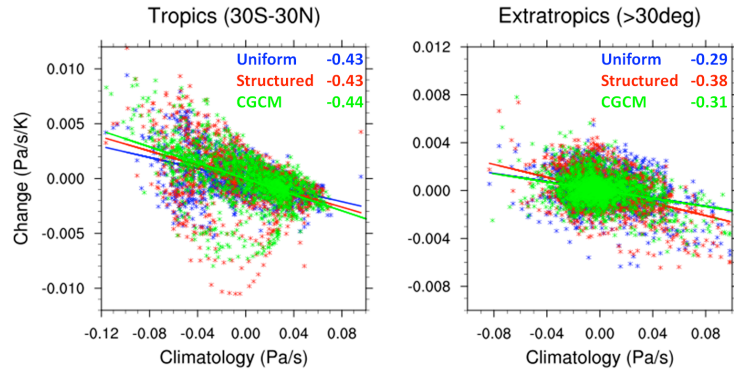
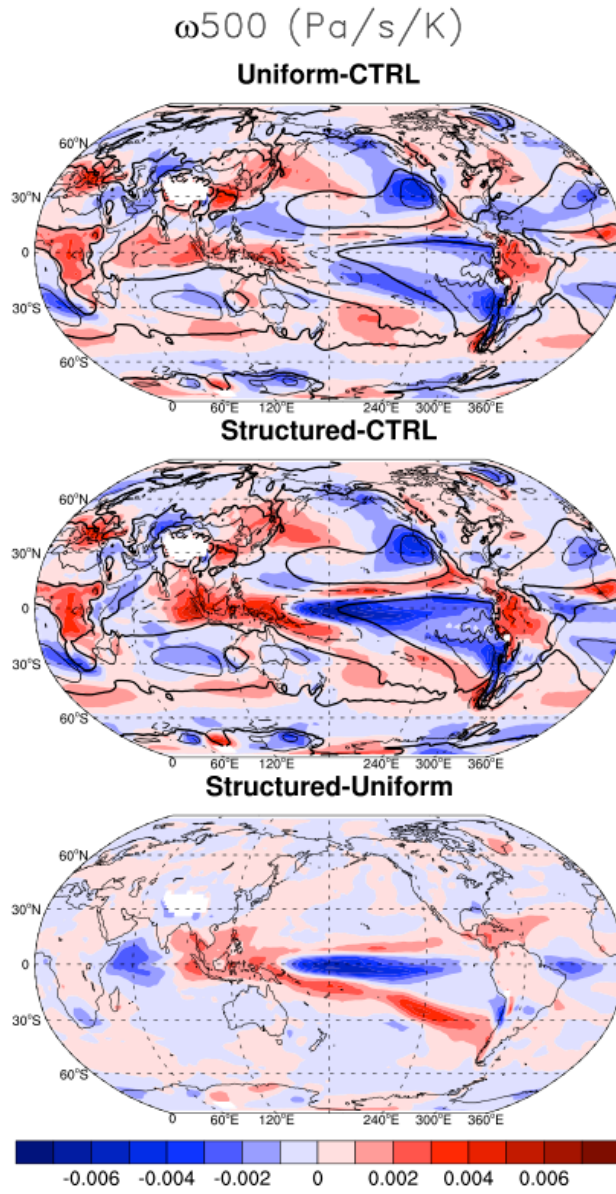
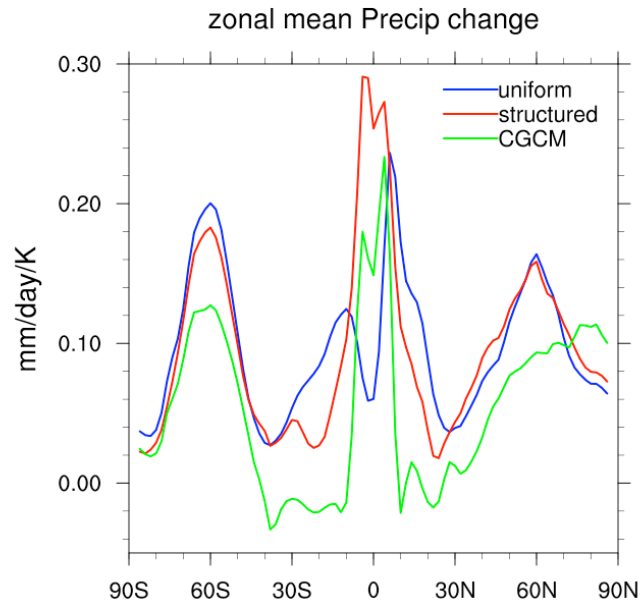


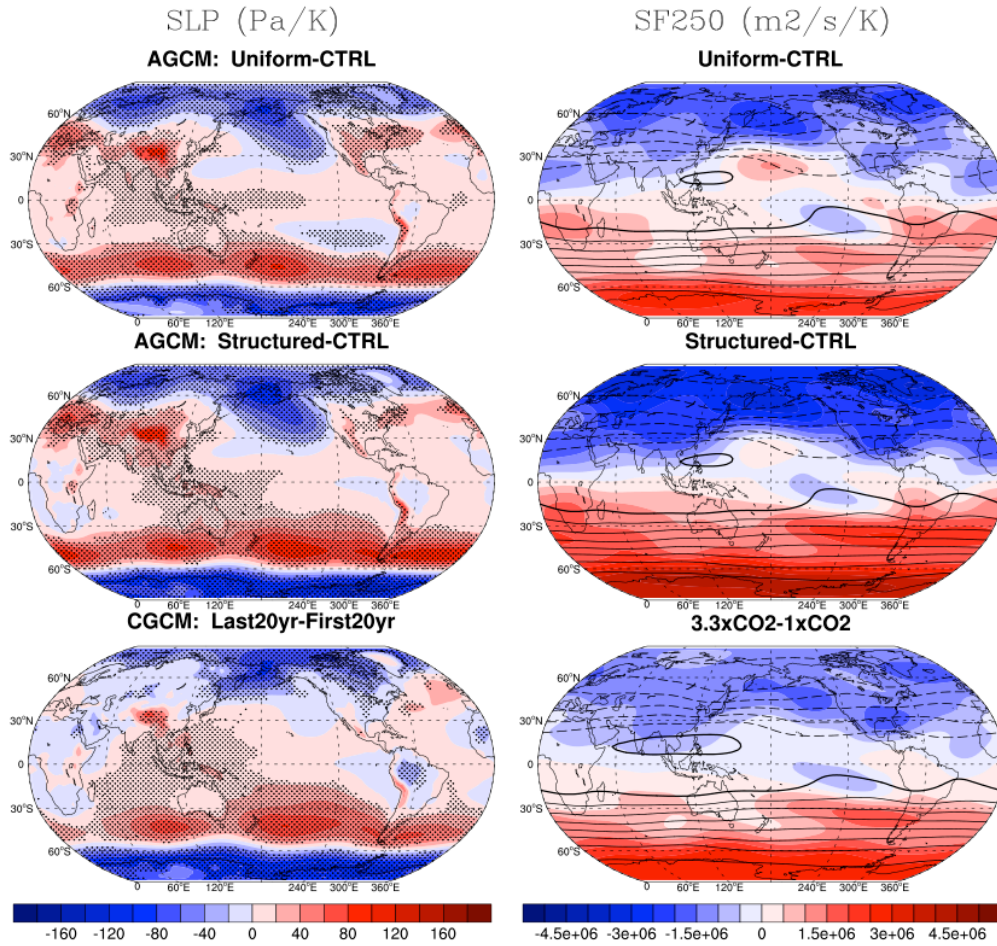
Figure E. Same as Figure 3 in the paper, except for DJF (top) and JJA (bottom).



**Figure F.** Same as Figure 2 (middle) in the paper, except the bottom plot is the ensemble mean difference between  $\delta\omega_{500}$  in the uniform and structured AGCM simulations.



**Figure G.** Changes in the zonal mean precipitation scaled by the global mean surface temperature change.



**Figure H.** Same as Figure 1 in the paper, except for the annual mean changes in SLP (left) and stream function (right).