SUPPLEMENTARY FIGURE CAPTIONS

S1: Annual mean surface air temperature (°C) anomalies for all models in the multi-model mean for Experiment 1 (a: CAM3.1, b: COSMOS, c: HadAM3, d: LMDZ5A, e: MIROC4m, f: MRI-CGCM2.3, g: NorESM-L (CAM4)).

S2: Annual mean total precipitation rate (mm/day) anomalies for all models in the multimodel mean for Experiment 1 (a: CAM3.1, b: COSMOS, c: HadAM3, d: LMDZ5A, e: MIROC4m, f: MRI-CGCM2.3, g: NorESM-L (CAM4)).

S3: Annual mean surface air temperature (°C) anomalies for all models in the multi-model mean for Experiment 2 (a: CCSM4, b: COSMOS, c: GISS-E2-R, d: HadCM3, e: IPSLCM5A f: MIROC4m, g: MRI-CGCM2.3, h: NorESM-L. Spatial pattern of ESS estimates can be seen by multiplying this field by 1.88.

S4: Annual mean total precipitation rate (mm/day) anomalies for all models in the multimodel mean for Experiment 2 (a: CCSM4, b: COSMOS, c: GISS-E2-R, d: HadCM3, e: IPSLCM5A f: MIROC4m, g: MRI-CGCM2.3, h: NorESM-L.

S5: Annual mean sea surface temperature (°C) anomalies for all models in the multi-model mean for Experiment 2 (a: CCSM4, b: COSMOS, c: GISS-E2-R, d: HadCM3, e: IPSLCM5A f: MIROC4m, g: MRI-CGCM2.3, h: NorESM-L.

END.





G



2 1.6 1.2 0.8 0.4 0 -0.4 -0.8 -1.2 -1.6 -2



3

G





10 8 6

2 0

-6

-8 -10 °C









