

This supplement contains 2 elements:

(1) A pdf containing supplementary Figures S1 to S10, and Tables S1 to S2.

(2) A .tar.gz file containing the model output used in this paper.

The individual files are in netcdf format.

The naming convention is <MOD>-<EXP>-<VAR>-<VER>.mean_um_<INT>_<DATE>.nc

MOD is the model name, see Section 2.2 in the main paper

EXP is the experiment name, see Table 1 in the main paper

VAR can be:

tas = near-surface air temperature

tos = SST

ts = surface temperature

rEVL = radiative fluxes, where E can be l = longwave or s = shortwave; V can be u = upward or d = downward or n = net, and L can be t = TOA to s = surface.

VER is 1.0 (referring to the version in the DeepMIP model database)

INT is either blank, or = sst_nn in the case of SST (referring to nearest neighbour interpolation; all other interpolations are carried out using bilinear interpolation)

DATE is 2020-11-19 for all variables.

There are 290 files altogether = 10 variables * 29 simulations.

5*CESM + 4*COS + 6*GFDL + 4*HAD + 2*INM + 3*IPS + 2*MIR + 3*NOR = 29.