



Supplement of

The response of terrestrial ecosystem carbon cycling under different aerosol-based radiation management geoengineering

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Figure S1: Distribution of dominant biomes on land used in this study. Dominant biomes distribution map

Figure S2: The deviation of DVR, FVR, and TSA, simulated by the three RM methods relative to the baseline RCP8.5 scenario. The values shown here are the mean difference of the 2070-2100 time period and the mean over three ensemble members.



Figure S3: Spatial pattern of temporal correlation between the simulated results between RCP8.5 and the RM methods based on RCP8.5 scenario. The correlations shown are FVR-NPP, TSA-NPP, precipitation-NPP in each grid of the model mean over the 2070-2100 period.



Figure S4: Monthly climatology showing seasonality change in rain and air temperature under RCP4.5, RCP8.5, CCT, MSB, and SAI simulations. The values shown here are biome mean in the 2070-2100 time period.



Figure S5: Monthly climatology showing seasonality change in NPP and LAI under RCP4.5, RCP8.5, CCT, MSB, and SAI simulations. The values shown here are biome mean in the 2070-2100 time period.



Figure S6: The relative difference in total vegetation and soil carbon between the RM to RCP8.5 scenario. The values shown here are biome mean.



Figure S7: Global vegetation and soil C storage. The values shown here are -60 to 70°N sum from the land area.

