Supporting Information for

# Response of Terrestrial Net Primary Production to Quadrupled CO₂ Forcing: A Comparison between the CAS-ESM2 and CMIP6 Models

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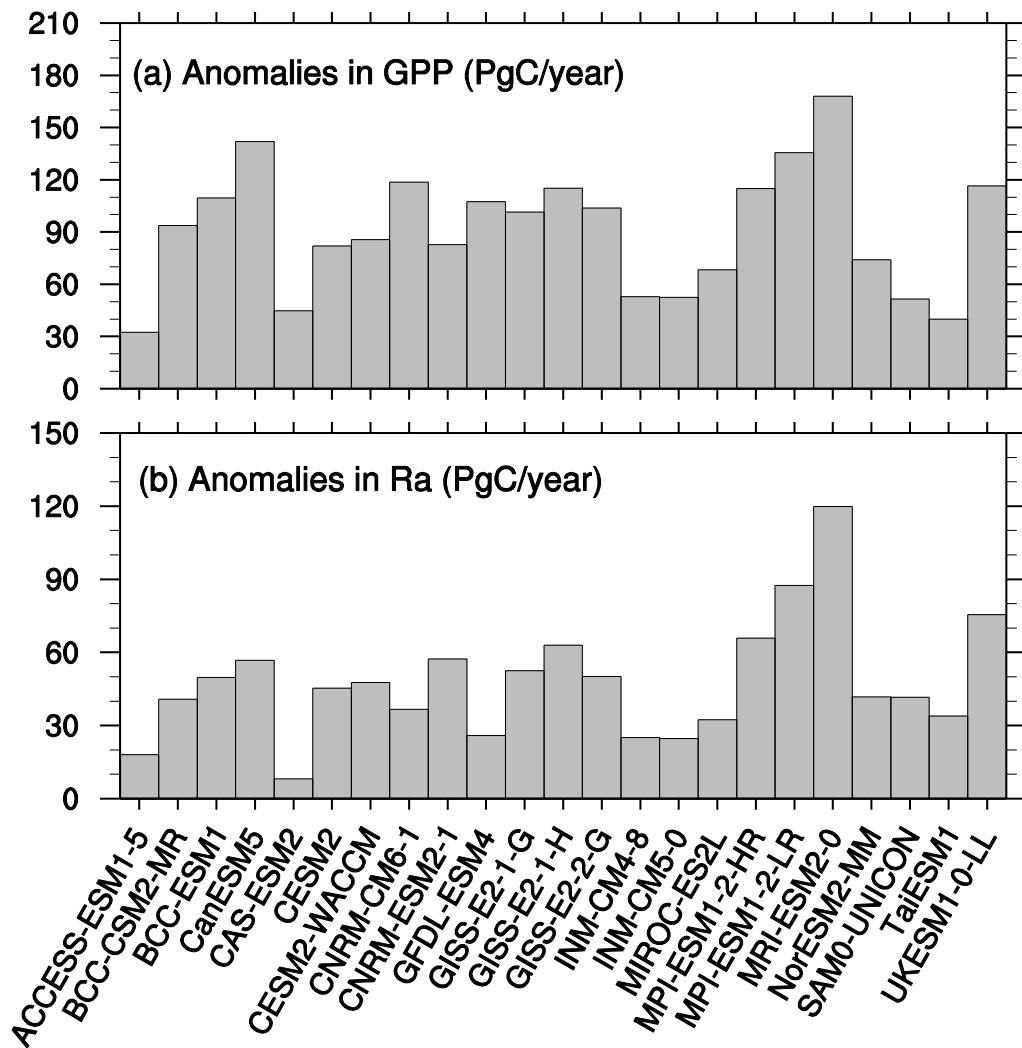
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Figure S1. Global annual total anomalies in (a) GPP and (b) Ra between simulations of abrupt-4×$CO_2$ and piControl for CAS-ESM2 and the 22 CMIP6 models.
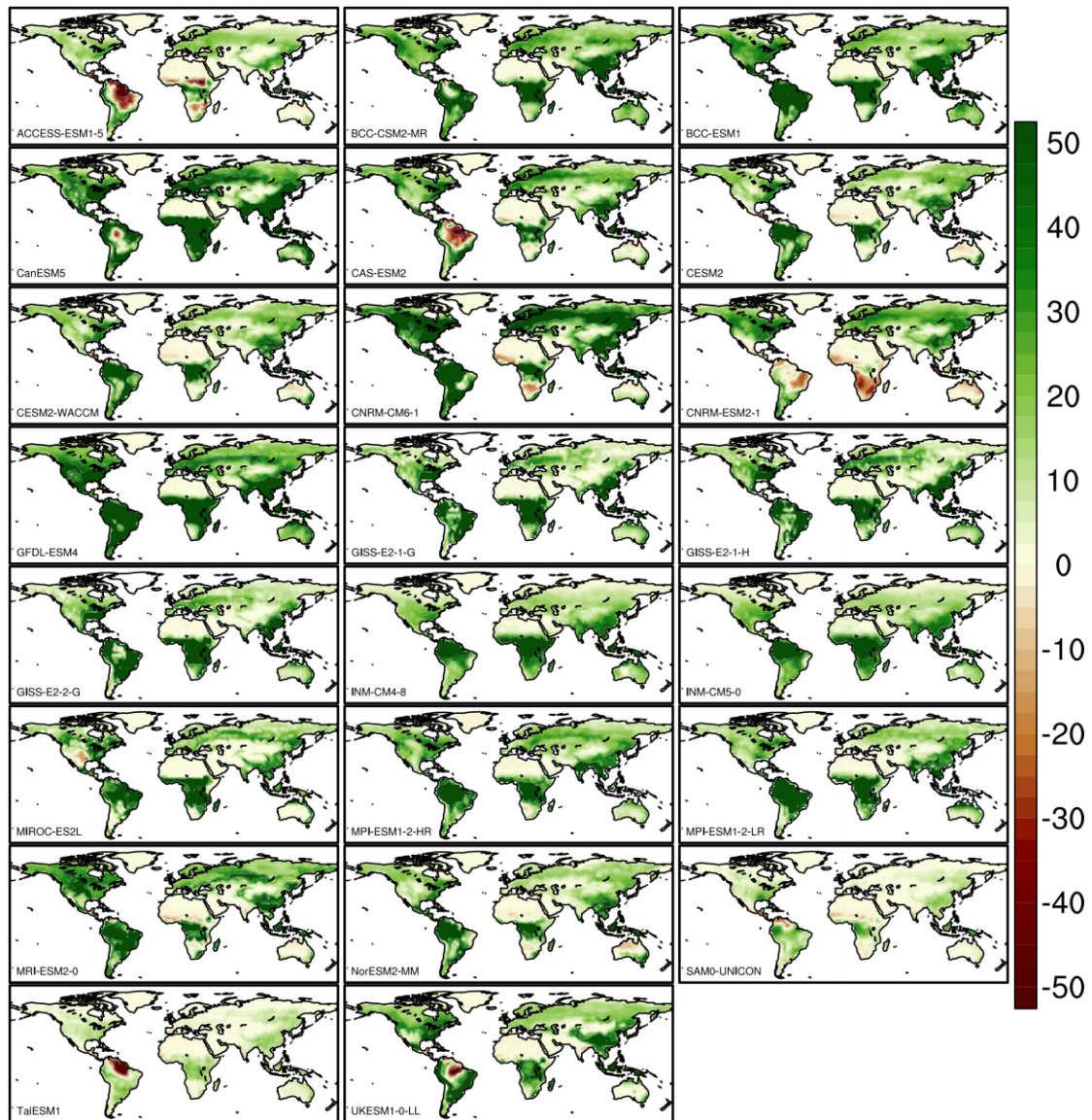
Figure S2. Spatial distributions of annual total NPP differences (TgC year$^{-1}$) between abrupt-4×CO$_2$ and pre-industrial simulation for the 23 models.

Table S1. The selected CMIP6 models and corresponding references

| Model name | Reference |
| --- | --- |
| ACCESS-ESM1-5 | [1] |
| BCC-CSM2-MR | [2] |
| BCC-ESM1 | [3] |
| CanESM5 | [4] |
| CAS-ESM2 | [5] |
| CESM2 | [6] |
| CESM2-WACCM | [6] |
| CNRM-CM6-1 | [7] |
| CNRM-ESM2-1 | [8] |
| GFDL-ESM4 | [9] |
| GISS-E2-1-G | [10] |
| GISS-E2-1-H | [10] |
| GISS-E2-2-G | [11] |
| INM-CM4-8 | [12] |
| INM-CM5-0 | [13] |
| MIROC-ES2L | [14] |
| MPI-ESM1-2-HR | [15] |
| MPI-ESM1-2-LR | [16] |
| MRI-ESM2-0 | [17] |
| NorESM2-MM | [18] |
| SAM0-UNICON | [19] |
| TaiESM1 | [20] |
| UKESM1-0-LL | [21] |

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