**List of CMIP6 global Earth System Models.** These were used to simulate the multi-model mean temperatures and ranges for four SSP scenarios (as indicated in the first row), shown in Fig. 2.

|  |  |  |  |
| --- | --- | --- | --- |
| SSP1-2.6 | SSP2-4.5 | SSP3-7.0 | SSP5-8.5 |
| AWI-CM-1-1-MRBCC-CSM2-MRCAMS-CSM1-0CESM2-WACCMCESM2CIESMCMCC-CM2-SR5CNRM-CM6-1-HRCNRM-CM6-1CNRM-ESM2-1CanESM5EC-Earth3-VegEC-Earth3FGOALS-f3-LFGOALS-g3GFDL-ESM4HadGEM3-GC31-LLHadGEM3-GC31-MMIITM-ESMINM-CM4-8INM-CM5-0IPSL-CM6A-LRKACE-1-0-GKIOST-ESMMIROC-ES2LMIROC6MPI-ESM1-2-HRMPI-ESM1-2-LRMRI-ESM2-0NESM3NorESM2-LMNorESM2-MMUKESM1-0-LL | ACCESS-ESM1-5AWI-CM-1-1-MRBCC-CSM2-MRCAMS-CSM1-0CESM2-WACCMCESM2CIESMCMCC-CM2-SR5CNRM-CM6-1CNRM-ESM2-1CanESM5EC-Earth3-VegEC-Earth3FGOALS-f3-LFGOALS-g3FIO-ESM-2-0GFDL-CM4GFDL-ESM4HadGEM3-GC31-LLIITM-ESMINM-CM4-8INM-CM5-0IPSL-CM6A-LRKACE-1-0-GKIOST-ESMMIROC-ES2LMIROC6MPI-ESM1-2-HRMPI-ESM1-2-LRMRI-ESM2-0NESM3NorESM2-LMNorESM2-MMUKESM1-0-LL | AWI-CM-1-1-MRBCC-CSM2-MRCAMS-CSM1-0CESM2-WACCMCESM2CMCC-CM2-SR5CNRM-CM6-1CNRM-ESM2-1CanESM5EC-Earth3-VegEC-Earth3FGOALS-f3-LFGOALS-g3GFDL-ESM4IITM-ESMINM-CM4-8INM-CM5-0IPSL-CM6A-LRKACE-1-0-GMIROC-ES2LMIROC6MPI-ESM1-2-HRMPI-ESM1-2-LRMRI-ESM2-0NorESM2-LMNorESM2-MMTaiESM1UKESM1-0-LL | AWI-CM-1-1-MRBCC-CSM2-MRCAMS-CSM1-0CESM2-WACCMCESM2CIESMCMCC-CM2-SR5CNRM-CM6-1CNRM-ESM2-1CanESM5EC-Earth3-VegEC-Earth3FGOALS-f3-LFGOALS-g3GFDL-CM4GFDL-ESM4HadGEM3-GC31-LLHadGEM3-GC31-MMIITM-ESMINM-CM4-8INM-CM5-0IPSL-CM6A-LRKACE-1-0-GKIOST-ESMMIROC-ES2LMIROC6MPI-ESM1-2-HRMPI-ESM1-2-LRMRI-ESM2-0NESM3NorESM2-LMNorESM2-MMTaiESM1UKESM1-0-LL |

**CMIP6 Earth System Model details.**

|  |  |  |  |
| --- | --- | --- | --- |
| Model | Institution | Data reference | Experiment |
| ACCESS-ESM1-5 | CSIRO (Australia) | https://doi.org/10.22033/ESGF/CMIP6.2291 (*1*) | SSP2-4.5 |
| AWI-CM-1-1-MR | Alfred Wegener Institute (Germany) | https://doi.org/10.22033/ESGF/CMIP6.376 (*2*) | SSP1-2.6, SSP2-4.5, SSP3-7.0, SSP5-8.5 |
| BCC-CSM2-MR | Beijing Climate Center (China) | https://doi.org/10.22033/ESGF/CMIP6.1732 (*3*) | SSP1-2.6, SSP2-4.5, SSP3-7.0, SSP5-8.5 |
| CAMS-CSM1-0 | Chinese Academy of Meteorological Sciences (China) | https://doi.org/10.22033/ESGF/CMIP6.11004 (*4*) | SSP1-2.6, SSP2-4.5, SSP3-7.0, SSP5-8.5 |
| CESM2-WACCM; CESM2 | National Center for Atmospheric Research (USA) | https://doi.org/10.22033/ESGF/CMIP6.10026 (*5*)https://doi.org/10.22033/ESGF/CMIP6.2201 (*6*) | SSP1-2.6, SSP2-4.5, SSP3-7.0, SSP5-8.5 |
| CIESM | Department of Earth System Science, Tsinghua University (China) | https://doi.org/10.22033/ESGF/CMIP6.1357 (*7*) | SSP1-2.6, SSP2-4.5, SSP5-8.5 |
| CMCC-CM2-SR5 | Fondazione Centro Euro-Mediterraneo sui Cambiamenti Climatici (Italy) | https://doi.org/10.22033/ESGF/CMIP6.1365 (*8*) | SSP1-2.6, SSP2-4.5, SSP3-7.0, SSP5-8.5 |
| CNRM-CM6-1-HR; CNRM-CM6-1; CNRM-ESM2-1 | CNRM-CERFACS (France) | https://doi.org/10.22033/ESGF/CMIP6.1388 (*9*)https://doi.org/10.22033/ESGF/CMIP6.1384 (*10*)https://doi.org/10.22033/ESGF/CMIP6.1395 (*11*) | SSP1-2.6, SSP2-4.5, SSP3-7.0, SSP5-8.5 |
| CanESM5 | Canadian Centre for Climate Modelling and Analysis (Canada) | https://doi.org/10.22033/ESGF/CMIP6.10207 (*12*) | SSP1-2.6, SSP2-4.5, SSP3-7.0, SSP5-8.5 |
| EC-Earth3-Veg; EC-Earth3 | EC-Earth Consortium | https://doi.org/10.22033/ESGF/CMIP6.727 (*13*)https://doi.org/10.22033/ESGF/CMIP6.251 (*14*) | SSP1-2.6, SSP2-4.5, SSP3-7.0, SSP5-8.5 |
| FGOALS-f3-L; FGOALS-g3 | Institute of Atmospheric Physics (China) | https://doi.org/10.22033/ESGF/CMIP6.2046 (*15*)https://doi.org/10.22033/ESGF/CMIP6.2056 (*16*) | SSP1-2.6, SSP2-4.5, SSP3-7.0, SSP5-8.5 |
| FIO-ESM-2-0 | First Institute of Oceanography (China) | https://doi.org/10.22033/ESGF/CMIP6.9051 (*17*) | SSP2-4.5 |
| GFDL-CM4; GFDL-ESM4 | NOAA-Geophysical Fluid Dynamics Laboratory (USA) | https://doi.org/10.22033/ESGF/CMIP6.1414 (*18*)https://doi.org/10.22033/ESGF/CMIP6.9242 (*19*) | SSP1-2.6, SSP2-4.5, SSP3-7.0, SSP5-8.5 |
| HadGEM3-GC31-LL; HadGEM3-GC31-MM | Met Office Hadley Centre (United Kingdom) | https://doi.org/10.22033/ESGF/CMIP6.10845 (*20*)https://doi.org/10.22033/ESGF/CMIP6.10846 (*21*) | SSP1-2.6, SSP2-4.5, SSP5-8.5 |
| IITM-ESM | Centre for Climate Change Research, Indian Institute of Tropical Meteorology Pune (India) | https://doi.org/10.22033/ESGF/CMIP6.14741 (*22*) | SSP1-2.6, SSP2-4.5, SSP3-7.0, SSP5-8.5 |
| INM-CM4-8; INM-CM5-0 | Institute for Numerical Mathematic (Russia) | https://doi.org/10.22033/ESGF/CMIP6.12321 (*23*)https://doi.org/10.22033/ESGF/CMIP6.12322 (*24*) | SSP1-2.6, SSP2-4.5, SSP3-7.0, SSP5-8.5 |
| IPSL-CM6A-LR | Institut Pierre-Simon Laplace (France) | https://doi.org/10.22033/ESGF/CMIP6.1532 (*25*) | SSP1-2.6, SSP2-4.5, SSP3-7.0, SSP5-8.5 |
| KACE-1-0-G | National Institute of Meteorological Sciences/Korea Meteorological Administration (Republic of Korea) | https://doi.org/10.22033/ESGF/CMIP6.2242 (*26*) | SSP1-2.6, SSP2-4.5, SSP3-7.0, SSP5-8.5 |
| KIOST-ESM | Korea Institute of Ocean Science and Technology (Republic of Korea) | https://doi.org/10.22033/ESGF/CMIP6.11241 (*27*) | SSP1-2.6, SSP2-4.5, SSP5-8.5 |
| MIROC-ES2L; MIROC6 | JAMSTEC, NIES,AORI, U. of Tokyo (Japan) | https://doi.org/10.22033/ESGF/CMIP6.898 (*28*)https://doi.org/10.22033/ESGF/CMIP6.936 (*29*) | SSP1-2.6, SSP2-4.5, SSP3-7.0, SSP5-8.5 |
| MPI-ESM1-2-HR; MPI-ESM1-2-LR | Max Planck Institute for Meteorology (Germany), also Deutsches Klimarechenzentrum (Germany) and Deutscher Wetterdienst (Germany) | https://doi.org/10.22033/ESGF/CMIP6.2450 (*30*)https://doi.org/10.22033/ESGF/CMIP6.1869 (*31*)https://doi.org/10.22033/ESGF/CMIP6.793 (*32*) | SSP1-2.6, SSP2-4.5, SSP3-7.0, SSP5-8.5 |
| MRI-ESM2-0 | Meteorological Research Institute (Japan) | https://doi.org/10.22033/ESGF/CMIP6.638 (*33*) | SSP1-2.6, SSP2-4.5, SSP3-7.0, SSP5-8.5 |
| NESM3 | Nanjing University of Information Science and Technology (China) | https://doi.org/10.22033/ESGF/CMIP6.2027 (*34*) | SSP1-2.6, SSP2-4.5, SSP5-8.5 |
| NorESM2-LM; NorESM2-MM | Norwegian Climate Center (Norway) | https://doi.org/10.22033/ESGF/CMIP6.604 (*35*)https://doi.org/10.22033/ESGF/CMIP6.608 (*36*)https://doi.org/10.22033/ESGF/CMIP6.10894 (*37*) | SSP1-2.6, SSP2-4.5, SSP3-7.0, SSP5-8.5 |
| TaiESM1 | Research Center for Environmental Changes (Taiwan) | https://doi.org/10.22033/ESGF/CMIP6.9688 (*38*) | SSP3-7.0, SSP5-8.5 |

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