**S5 Table. Coupled Model Intercomparison Project Phase 5 (CMIP5) GCMs used in SIMCLIM v 3.0.0.5 [52]**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Model | Country | Spatial resolution for atmospheric variable (longitude\*latitude)  | Spatial resolution for ocean variable (longitude\*latitude)  |
| 1 | ACCESS1.3  | Australia  | 192\*145  | 360\*300  |
| 2 | ACCESS1.0  | Australia  | 192\*145  | 360\*300  |
| 3 | BCC-CSM1-1  | China  | 128\*64  | 360\*232  |
| 4 | BCC-CSM1-1-m  | China  | 320\*160  | 360\*232  |
| 5 | BNU-ESM | China | 128\*64 |  |
| 6 | CanESM2  | Canada  | 128\*64  | 256\*192  |
| 7 | CCSM4  | USA  | 288\*192  | 320\*384  |
| 8 | CESM1-BGC  | USA  | 288\*192  | 320\*384  |
| 9 | CESM1-CAM5  | USA  | 288\*192  | 320\*384  |
| 10 | CMCC-CM  | Italy  | 480\*240  | 182\*149  |
| 11 | CMCC-CMS  | Italy  | 192\*96  | 182\*149  |
| 12 | CNRM-CM5  | France  | 256\*128  | 362\*292  |
| 13 | CSIRO-Mk3-6-0  | Australia  | 192\*96  | 192\*189  |
| 14 | EC-EARTH  | Netherlands  | 320\*160  | 362\*292  |
| 15 | FGOALS-g2  | China  | 128\*60  | 360\*196  |
| 16 | FGOALS-s2  | China  | 128\*108  | 360\*196  |
| 17 | GFDL-CM3  | USA  | 144\*90  | 360\*200  |
| 18 | GFDL-ESM2G  | USA  | 144\*90  | 360\*210  |
| 19 | GFDL-ESM2M  | USA  | 144\*90  | 360\*200  |
| 20 | GISS-E2-H  | USA  | 144\*90  | 144\*90  |
| 21 | GISS-E2-H-CC  | USA  | 144\*90  | 144\*90  |
| 22 | GISS-E2-R  | USA  | 144\*90  | 288\*180  |
| 23 | GISS-E2-R-CC  | USA  | 144\*90  | 288\*180  |
| 24 | HADCM3  | UK  | 96\*73  | 96\*73  |
| 25 | HadGEM2-AO  | UK  | 192\*145  | 360\*216  |
| 26 | HadGEM2-CC  | UK  | 192\*145  | 360\*216  |
| 27 | HadGEM2-ES  | UK  | 192\*145  | 360\*216  |
| 28 | INMCM4  | Russia  | 180\*120  | 360\*340  |
| 29 | IPSL-CM5A-LR  | France  | 96\*96  | 182\*149  |
| 30 | IPSL-CM5A-MR  | France  | 144\*142  | 182\*149  |
| 31 | IPSL-CM5B-LR  | France  | 96\*96  | 182\*149  |
| 32 | MIROC4H  | Japan  | 640\*320  | 1280\*912  |
| 33 | MIROC5  | Japan  | 256\*128  | 256\*224  |
| 34 | MIROC-ESM  | Japan  | 128\*64  | 256\*192  |
| 35 | MIROC-ESM-CHEM  | Japan  | 128\*64  | 256\*192  |
| 36 | MPI-ESM-LR  | Germany  | 192\*96  | 256\*220  |
| 37 | MPI-ESM-MR  | Norway  | 192\*96  | 802\*404  |
| 38 | MRI-CGCM3  | Japan  | 320\*160  | 360\*368  |
| 39 | NorESM1-M  | Norway  | 144\*96  | 320\*384  |
| 40 | NorESM1-ME  | Norway  | 144\*96  | 320\*384  |