**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 |