

# CMIP5 Models and Grid Resolution

The following table lists the models for which CMIP5 simulation data can be downloaded. Also tabulated are the grid resolutions, i.e. the distance between adjacent grid points in degrees. In case of the atmospheric grid and its latitude, the tabulated resolution is only valid for the equator region. For higher latitudes deviations may occur.

Ocean models have their own, finer grid. If two values are given for the latitude resolution of the ocean grid, resolution is not constant. The first value is that for the equator, the second for the poles (maximum for the two poles if different). In case of rotated poles the resolutions for the rotated coordinates rlon and rlat are tabulated.  $lat(i,j)$  and  $lon(i,j)$  denote latitudes and longitudes defined with two indices  $i$  and  $j$ . In this case the resolution cannot simply be read out.

Model	Atmospheric Grid		Ocean Grid	
	Latitude	Longitude	Latitude	Longitude
<u>ACCESS1.0</u>	1.25	1.875	$lat(i,j)$	$lon(i,j)$
<u>ACCESS1.3</u>	1.25	1.875	$lat(i,j)$	$lon(i,j)$
<u>BCC-CSM1.1</u>	2.7906	2.8125	0.3333, 1	1
<u>BCC-CSM1.1(m)</u>	2.7906	2.8125	0.3333, 1	1
<u>BNU-ESM</u>	2.7906	2.8125	0.3344, 1	1
<u>CCSM4</u>	0.9424	1.25	$lat(i,j)$	$lon(i,j)$
<u>CESM1(BGC)</u>	0.9424	1.25	$lat(i,j)$	$lon(i,j)$
<u>CESM1(CAM5)</u>	0.9424	1.25	$lat(i,j)$	$lon(i,j)$
<u>CESM1(FASTCHEM)</u>	0.9424	1.25	only time-independent ocean data	
<u>CESM1(WACCM)</u>	1.8848	2.5	$lat(i,j)$	$lon(i,j)$
<u>CFSv2-2011</u>	1	1	0.5	0.5
<u>CMCC-CESM</u>	3.4431	3.75	$lat(i,j)$	$lon(i,j)$
<u>CMCC-CM</u>	0.7484	0.75	$lat(i,j)$	$lon(i,j)$
<u>CMCC-CMS</u>	3.7111	3.75	$lat(i,j)$	$lon(i,j)$
<u>CNRM-CM5</u>	1.4008	1.40625	$lat(i,j)$	$lon(i,j)$
<u>CNRM-CM5-2</u>	1.4008	1.40625	$lat(i,j)$	$lon(i,j)$
<u>CSIRO-Mk3.6.0</u>	1.8653	1.875	0.9327, 0.9457	1.875
<u>CSIRO-Mk3L-1-2</u>	3.1857	5.625	only time-independent ocean data	
<u>CanAM4</u>	2.7906	2.8125	no ocean data	
<u>CanCM4</u>	2.7906	2.8125	0.9303, 1.1407	1.40625
<u>CanESM2</u>	2.7906	2.8125	0.9303, 1.1407	1.40625
<u>EC-EARTH</u>	1.1215	1.125	$lat(i,j)$	$lon(i,j)$
<u>FGOALS-g2</u>	2.7906	2.8125	0.5, 1	1
<u>FGOALS-g1</u>	4.1026	5	1	1
<u>FGOALS-s2</u>	1.6590	2.8125	0.5, 1	1
<u>GEOS-5</u>	2	2.5	1	1
<u>GFDL-CM2.1</u>	2.0225	2.5	0.3344, 1	1
<u>GFDL-CM3</u>	2	2.5	0.3344, 1	1
<u>GFDL-ESM2G</u>	2.0225	2	0.375, 0.5	1
<u>GFDL-ESM2M</u>	2.0225	2.5	0.3344, 1	1
<u>GISS-E2-H</u>	2	2.5	1	1
<u>GISS-E2-H-CC</u>	2	2.5	1	1

<u>GISS-E2-R</u>	2	2.5	1	1.25
<u>GISS-E2-R-CC</u>	2	2.5	1	1.25
<u>HadCM3</u>	2.5	3.75	1.25	1.25
<u>HadGEM2-A</u>	1.25	1.875		no ocean data
<u>HadGEM2-AO</u>	1.25	1.875	0.3396, 1	1
<u>HadGEM2-CC</u>	1.25	1.875	0.3396, 1	1
<u>HadGEM2-ES</u>	1.25	1.875	0.3396, 1	1
<u>INM-CM4</u>	1.5	2	0.5	1
<u>IPSL-CM5A-LR</u>	1.8947	3.75	$lat(i,j)$	$lon(i,j)$
<u>IPSL-CM5A-MR</u>	1.2676	2.5	$lat(i,j)$	$lon(i,j)$
<u>IPSL-CM5B-LR</u>	1.8947	3.75	$lat(i,j)$	$lon(i,j)$
<u>MIROC-ESM</u>	2.7906	2.8125	0.5582, 1.7111	1.40625
<u>MIROC-ESM-CHEM</u>	2.7906	2.8125	0.5582, 1.7111	1.40625
<u>MIROC4h</u>	0.5616	0.5625	0.1875	0.28125
<u>MIROC5</u>	1.4008	1.40625	0.5, 0.5	1.40625
<u>MPI-ESM-LR</u>	1.8653	1.875		
<u>MPI-ESM-MR</u>	1.8653	1.875	orthogonal curvilinear coordinates $lat(i,j)$ and $lon(i,j)$	
<u>MPI-ESM-P</u>	1.8653	1.875		
<u>MRI-AGCM3-2H</u>	0.562	0.5625		no ocean data
<u>MRI-AGCM3-2S</u>	0.188	0.1875		
<u>MRI-CGCM3</u>	1.12148	1.125	0.5, 0.5	1
<u>MRI-ESM1</u>	1.12148	1.125	0.5, 1.125	1
<u>NorESM1-M</u>	1.8947	2.5	$lat(i,j)$	$lon(i,j)$
<u>NorESM1-ME</u>	1.8947	2.5	$lat(i,j)$	$lon(i,j)$

Details concerning the European models

## About ENES

Aims

Strategy

Rationale

Partners

## Community

Announcements

Schools & Education

Projects and Initiatives

## Models

European ESMs

Support services

## **Data**

Support services

© data privacy statement (German)