Design for the last millenium run

You will find on this page information about the experiment design for the PMIP4 Last Millenium experiment.



Please make sure to read the Associated publication before setting up your experiments or using the output data, and read any *how-to* sections associated with specific boundary conditions.

Get in touch with the following people if you have questions:

Johann Jungclaus	Scientific questions
Jean-Yves Peterschmitt	Technical questions or missing data

Associated publication

The PMIP4 contribution to CMIP6 - Part 3: the Last Millennium, Scientific Objective and Experimental Design for the PMIP4 past1000 simulations, Jungclaus et al, GMD, under review, doi:10.5194/gmd-2016-278

Specifications

	PMIP4-CMIP6 specifications		
PMIP4-CMIP6 name	past1000		
Astronomical parameters	Time varying, following <i>Berger 1978</i> and Schmidt et al., 2011 Use the table provided by Gavin Schmidt for PMIP3		
Trace gases	CO2, N2O, CH4 = time varying, Meinshausen et al., CMIP6 GMD special issue The CMIP6 greenhouse gases forcing data set covers the period 0 to 2014. Data sets can be downloaded from: http://www.climatecollege.unimelb.edu.au/cmip6. The data sets will be made available also via https://pcmdi.llnl.gov/search/input4mips/ CFC = 0 O3 = for models without interactive ozone chemistry, we suggest that O3 modulation is derived in a similar way from the modulation of the UV part of the solar spectrum as in the historical simulations (c.f. Matthes et al., CMIP6 GMD special issue 2016)		
Solar activity	Time varying		
Ice sheets	Same as in CMIP6 piControl		
Topography and coastlines	Same as in CMIP6 piControl		

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	PMIP4-CMIP6 specifications	
Volcanic activity	Time varying sulphur injections eVolv2k (Toohey and Sigl dataset , 2016, doi:10.1594/WDCC/eVolv2k_v1) for models with interactive aerosol chemistry. For models that need aerosol optical properties as forcing, these are produced by the EVA (<i>Easy Volcanic Aerosol</i>) module (Toohey et al., 2016) using the <i>eVolv2k</i> data set as input. A tar file including the <i>eVolv2k</i> input data, the EVA module, scripts and instructions, can be downloaded here: eva_pmip4_v1.tgz	
Aerosols	The treatment of dust and aerosols in the past1000 simulations should be the same as the one used in piControl. There is no time-varying dust forcing available for the last millennium	
Vegetation	The methodology to represent vegetation should be the same as for the CMIP6 piControl simulation	
Land Use forcing	Land-Use/Land-cover change forcing is the same as for the historical CMIP6 forcing, which has been extended to cover 850 CE to 2015 CE. The CMIP6 Land Use Harmonization data set has been developed as part of the Land Use Model Intercomparison Project LUMIP (Lawrence at al) and can be downloaded from the LUMIP web site	

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