Design for the last millenium run

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

Jungclaus et al, submitted

Specifications

	PMIP4-CMIP6 specifications
PMIP4-CMIP6 name	past1000
Astronomical parameters	Time varying, following *Berger 1978* 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 complete dataset with latitudinally and monthly resolved data in NetCDF format is available via https://pcmdi.llnl.gov/search/input4mips/. Additional data formats, of the same data are also available via http://www.climatecollege.unimelb.edu.au/cmip6 **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
Volcanic activity	Time varying sulphur injections eVolv2K (Sigl et al., 2015, Toohey and Sigl, 2016) for models with interactive aerosol chemistry. For models that need aerosol optical properties as forcing, these are provided by the EVA (*Easy Volcanic Aerosol*) module (Toohey et al., 2016) A tar file including the input data, the EVA module and a compilation of parameter settings can be downloaded here: eva_pmip4_v1.tgz
Aerosols	Same background aerosols as in CMIP6 PiControl

	PMIP4-CMIP6 specifications
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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