

# 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:

<a href="#">Johann Jungclaus</a>	Scientific questions
<a href="#">Jean-Yves Peterschmitt</a>	Technical questions or missing data

## Associated publication

Jungclaus et al, in prep

## Specifications

	<b>PMIP4-CMIP6 specifications</b>
PMIP4-CMIP6 name	<b>past1000</b>
Astronomical parameters	Time varying, following Berger 1978 and Schmidt et al., 2011 Use the <a href="#">table provided by Gavin Schmidt</a> for PMIP3
Trace gases	<b>CO<sub>2</sub>, N<sub>2</sub>O, CH<sub>4</sub></b> = time varying, Meinshausen et al., <a href="#">CMIP6 GMD special issue</a> <b>CFC</b> = 0 <b>O<sub>3</sub></b> = for models without interactive ozone chemistry, we suggest that O <sub>3</sub> 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. <a href="#">Matthes et al., CMIP6 GMD special issue 2016</a> )
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, in prep.) for models with interactive aerosol chemistry. For models that need aerosol optical properties as forcing, these are provided by the EVA module ( <a href="#">Toohey et al., 2016</a> )
Aerosols	<b>?? Same background aerosols as in CMIP6 PiControl ??</b>

<b>PMIP4-CMIP6 specifications</b>	
Vegetation	The methodology to represent vegetation should be the same as for the CMIP6 piControl simulation Land-Use/Land-cover change forcing is the same as for the <a href="#">historical CMIP6 forcing</a> , covering 850 CE to 2014 CE. cf. documenting papers: Jungclaus et al, CP 2016 in prep, Hurtz et al., GMD in prep

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