



## **The PMIP4-CMIP6 database and the PMIP 4 community**

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The Paleoclimate Modelling Intercomparison Project (PMIP) is a long standing initiative that has provided an efficient mechanism for coordinating paleoclimate modelling activities that provide valuable information on the mechanisms of climate change, the identification of key feedbacks operating in the climate system and, through model evaluation, the capability of climate models to reproduce climates different from today. The third phase of PMIP (aka “PMIP 3”) started in 2009 and the fourth phase (“PMIP 4”) started in 2015.

PMIP has been following the CMIP (Coupled Model Intercomparison Project) requirements since PMIP3-CMIP5, when three PMIP experiments were included in CMIP (Last Millennium, Mid-Holocene and Last Glacial Maximum). This has made it possible to share and access PMIP model data with the same ESGF (Earth System Grid Federation) tools and infrastructure used for the distributed CMIP database.

This poster will give an overview of the PMIP4 participants and which experiments they intend to run. The experiments endorsed by CMIP will be distributed as “CMIP6 data” (Last Millennium, Mid-Holocene, Last Glacial Maximum, Last Interglacial and Mid Pliocene), while other experiments will be distributed as “PMIP4 data” (transient simulations and sensitivity experiments). We will also outline some of the CMIP6-related constraints the PMIP4 participants will have to deal with: deadlines, standard distributed variables, standard data format, quality control, model documentation. . .

This poster will also present the tools that PMIP participants use to work together: PMIP web site, wiki and publications’ list, PMIP mailing lists and PMIP Working Groups.

### References:

<http://pmip3.lsce.ipsl.fr/>

<https://wiki.lsce.ipsl.fr/pmip3/doku.php/pmip3:cmip6:design:index>

<http://cmip-pcmdi.llnl.gov/cmip5/>

<http://esgf.llnl.gov/>