PMIP4 gases data

CO2

Experiment	Value (ppm)
midHolocene	264.4
lgm	190
past1000	Time varying Meinshausen et al., CMIP6 GMD special issue
lig127k	275
midPliocene-eoi400	400
LDv1-LGMspin	*Same as lgm*
LDv1-transpin LDv1	Transient, as per Bereiter et al. (2015) [Bereiter et al data access] (md5sum = c54a033d8cbf588bc2b95d3b92ff9b1c)
PDGv1-PGMspin	195
PDGv1	**CO_2** = Transient, as per the spline of Koehler et al. (2017): [Access to data]

CH4

Experiment	Value (ppb)
midHolocene	597
lgm	375
past1000	Time varying Meinshausen et al., CMIP6 GMD special issue
lig127k	685
midPliocene-eoi400	*Same as in CMIP6 piControl*
LDv1-LGMspin	*Same as lgm*
LDv1-transpin LDv1	Transient, as per Loulergue et al. (2008) **Get reference and data below!**
PDGv1-PGMspin	387
PDGv1	Transient, as per the spline of Koehler et al. (2017): [Access to data]

Loulergue et al CH4 data

- Reference: Loulergue, L., Schilt, A., Spahni, R., Masson-Delmotte, V., Blunier, T., Lemieux, B., Barnola, J.-M., Raynaud, D., Stocker, T. F. and Chappellaz, J.: Orbital and millennial-scale features of atmospheric CH4 over the past 800,000 years, Nature, 453(7193), 383–386, doi:10.1038/nature06950, 2008.
- Data: pmip4_deglac_ch4_loulergue_et_al_2008_aicc2012.txt
- History:
  July 13th 2016: data uploaded to PMIP4 site, md5sum =
  338187b58a48d8cb5496f0d7c98528bb

N20

Experiment	Value (ppb)
midHolocene	262
lgm	200
past1000	Time varying Meinshausen et al., CMIP6 GMD special issue
lig127k	255
midPliocene-eoi400	*Same as in CMIP6 piControl*
LDv1-LGMspin	*Same as lgm*
LDv1-transpin LDv1	Transient, as per Schilt et al. (2010) **Get reference and data below!**
PDGv1-PGMspin	201
PDGv1	Linear increase from 201 ppb at 140 ka to 218.74 ppb at 134.5 ka then transient, as per the spline of Koehler et al. (2017): [Access to data

Schilt et al N20 data

- Reference: Schilt, A., Baumgartner, M., Schwander, J., Buiron, D., Capron, E., Chappellaz, J., Loulergue, L., Schüpbach, S., Spahni, R., Fischer, H. and Stocker, T. F.: Atmospheric nitrous oxide during the last 140,000 years, Earth Planet. Sci. Lett., 300(1–2), 33–43, doi:10.1016/j.epsl.2010.09.027, 2010.
- Data: pmip4_deglac_n20_schilt_et_al_2010_aicc2012.txt
- History:
  July 13th 2016: data uploaded to PMIP4 site, md5sum = a99f2d791256774f3296871aaf4ee9bd

CFC

Experiment	Value
midHolocene	0
lgm	0
past1000	0
lig127k	0
midPliocene-eoi400	*Same as in CMIP6 piControl*
LDv1-LGMspin LDv1-transpin LDv1	*Same as lgm*
PDGv1-PGMspin PDGv1	0

O3

Experiment	Value
midHolocene lgm lig127k midPliocene-eoi400 LDv1-LGMspin LDv1-transpin LDv1	*Same as in CMIP6 piControl*
PDGv1-PGMspin PDFv1	Preindustrial (e.g. 10 DU)
past1000	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)

From:
https://pmip4.lsce.ipsl.fr/ - **PMIP4**

Permanent link:
https://pmip4.lsce.ipsl.fr/doku.php/data:gases?rev=1549623572

Last update: **2019/02/08 11:59**