

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	CO₂ = 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 <i>CMIP6 piControl</i>
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](https://doi.org/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 <i>CMIP6 piControl</i>
LDv1-LGMspin	Same as <i>lgm</i>
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](https://doi.org/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 <i>CMIP6 piControl</i>
LDv1-LGMspin LDv1-transpin LDv1	Same as <i>lgm</i>
PDGv1-PGMspin PDGv1	0

O3

Experiment	Value
midHolocene lgm lig127k midPliocene-eoi400 LDv1-LGMspin LDv1-transpin LDv1	<i>Same as in CMIP6 piControl</i>
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)

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