

# PMIP4 gases data

## CO2

Experiment	Value (ppm)
midHolocene	264.36
lgm	190
past1000	Time varying Meinshausen et al., <a href="#">CMIP6 GMD special issue</a>
lig127k	287
midPliocene-eoi400	400
LDv1-LGMspin	<i>Same as lgm</i>
LDv1-transpin LDv1	Transient, as per <a href="#">Bereiter et al. (2015)</a> [ <a href="#">Bereiter et al data access</a> ]

## CH4

Experiment	Value (ppb)
midHolocene	584.93
lgm	375
past1000	Time varying Meinshausen et al., <a href="#">CMIP6 GMD special issue</a>
lig127k	724
midPliocene-eoi400	<i>Same as in CMIP6 piControl</i>
LDv1-LGMspin	<i>Same as lgm</i>
LDv1-transpin LDv1	Transient, as per Loulergue et al. (2008) <b>Get reference and data below!</b>

### 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 CH<sub>4</sub> 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](#)

## N2O

Experiment	Value (ppb)
midHolocene	258.56
lgm	200
past1000	Time varying Meinshausen et al., <a href="#">CMIP6 GMD special issue</a>
lig127k	262
midPliocene-eoi400	<i>Same as in CMIP6 piControl</i>

Experiment	Value (ppb)
LDv1-LGMspin	<i>Same as lgm</i>
LDv1-transpin LDv1	Transient, as per Schilt et al. (2010) <b>Get reference and data below!</b>

### Schilt et al N2O 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](#)

### CFC

Experiment	Value
midHolocene	0
lgm	0
past1000	0
lig127k	0
midPliocene-eoi400	<i>Same as in CMIP6 piControl</i>
LDv1-LGMspin LDv1-transpin LDv1	<i>Same as lgm</i>

### O3

Experiment	Value
midHolocene lgm lig127k midPliocene-eoi400 LDv1-LGMspin LDv1-transpin LDv1	<i>Same as in CMIP6 piControl</i>
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. <a href="#">Matthes et al., CMIP6 GMD special issue 2016</a> )

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