PMIP4 gases data

CO2

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

CH4

Experiment	Value (ppb)
midHolocene	584.93
lgm	375
past1000	Time varying Meinshausen et al., CMIP6 GMD special issue
lig127k	724
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!**

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

N20

Experiment	Value (ppb)
midHolocene	258.56
lgm	200
past1000	Time varying Meinshausen et al., CMIP6 GMD special issue
lig127k	262
midPliocene-eoi400	*Same as in CMIP6 piControl*

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

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

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*

O3

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