

Design for the mid-Holocene run

PMIP4-CMIP6 name of the experiment: **midHolocene**

Associated publication: Otto-Bliesner et al, in prep

	PMIP4-CMIP6 specifications
Astronomical parameters	eccentricity = 0.018682 obliquity = 24.105° perihelion-180° = 0.87° Date of vernal equinox : March 21 at noon
Trace gases	CO₂ = 264.36 ppm CH₄ = 584.93 ppb N₂O = 258.56 ppb CFC = 0 O₃ = same as in CMIP6 piControl
Solar activity	Same as in CMIP6 piControl
Ice sheets	Same as in CMIP6 piControl
Topography and coastlines	Same as in CMIP6 piControl
Volcanic activity	Same as in CMIP6 piControl
Aerosols	Modified sources, atmospheric concentrations or radiative forcing, depending on model complexity cf. documenting papers: Otto-Bliesner et al, in prep and Kageyama et al, subm. Access to data
Vegetation	Depending on model complexity: Interactive vegetation or Interactive carbon cycle (LAI) or Prescribed to present-day values or mid-Holocene values computed from off-line vegetation model The methodology to represent vegetation should be the same as for the CMIP6 piControl simulation cf. documenting papers: Otto-Bliesner et al, in prep and Kageyama et al, subm.

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