

Design for the mid-Holocene run

Associated publication

Otto-Bliesner et al, in prep

Specifications

| | PMIP4-CMIP6 specifications |
|---------------------------|---|
| PMIP4-CMIP6 name | midHolocene |
| 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 and model configuration used for DECK and historical experiment 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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Last update: **2016/05/04 15:26**

