

(a) Experiment names	Explanation	Integration length (years)
PI.e	The piControl experiment submitted to CMIP5	530
LGM.e	The lgm experiment submitted to CMIP5–PMIP3; the integration is extended a further 800 years from the end of PMIP3 period	1200
LGMglac.e	LGM.e + adding glaciogenic dust flux following Mahowald et al. (2006a)	940
(b) Experiment names	Explanation	Integration length (years)
PI.a	Pre-industrial control, SST, sea ice, and LAI are taken from the climatology of PI.e	25
LGM.a	The lgm experiment submitted to CMIP5–PMIP3; the integration is extended a further 800 years	25
LGMglac.a	LGM.e + adding glaciogenic dust flux following Mahowald et al. (2006a)	25
LGM.naging.a	LGM.a + no ageing of snow albedo	25
LGMglac.naging.a	LGMglac.a + no ageing of snow albedo	25