

File name	Explanation	Parameters	Abbreviation	Unit	File type
SAT_ANOMALY_UVic.nc SAT_ANOMALY_CCSM3.nc	Annual mean anomalies of surface temperature between HE1 and LGM simulations from the UVic ESCM and CCSM3 (Fig. 1a and c in the paper).	Air surface temperature	SAT	K	Netcdf
PRECIP_ANOMALY_UVic.nc PRECIP_ANOMALY_CCSM3.nc	Annual mean anomalies of precipitation between HE1 and LGM simulations from the UVic ESCM and CCSM3 (Fig. 1b and d in the paper).	Precipitation	PRECIP	kg.m ⁻² .s ⁻¹	
BL_ANOMALY_UVic.nc NL_ANOMALY_UVic.nc GRASS_ANOMALY_UVic.nc DEC_ANOMALY_UVic.nc	Annual mean differences of PFT cover between HE1 and LGM simulations for the UVic ESCM (Fig. 2a, c, e, and g). The classification into the four PFTs is defined in Table 1 (in the paper), there are Broadleaf evergreen trees (BL), Needleleaf evergreen trees (NL), Deciduous trees (DEC), and Grasses (GRASS)	Plant functional type	PFT	%	
BL_ANOMALY_CCSM3.nc GRASS_ANOMALY_CCSM3.nc NL_ANOMALY_CCSM3.nc DEC_ANOMALY_CCSM3.nc	Annual mean differences of PFT cover between HE1 and LGM simulations for the CCSM3 (Fig. 2b, d, f, and h). The PFTs classification is similar to the UVic ESCM (see also Table 1 in the paper).				
BIOMS_LGM_UVic BIOMS_HE1_UVic BIOMS_ANOMALY_UVic	Biome distribution for LGM, HE1 and anomaly between the HE1 and LGM simulations (Fig. 5a, c and e in the paper). The distribution computed from the UVic ESCM model output.	Biome distributions and land coverage: 1= Tropical forest 2= Warm temperate forest 3= Temperate forest 4= Boreal forest 5= Savannah and dry woodland 6= Grassland and dry shrubland 7= Desert 8= Dry tundra 9= Tundra 10= Barren 11= Ice	BIOMS	-	
BIOMS_LGM_CCSM3 BIOMS_HE1_CCSM3 BIOMS_ANOMALY_CCSM3	Biome distribution for LGM, HE1 and anomaly between the HE1 and LGM simulation (Fig. 5b, d and f in the paper). The distribution computed from the CCSM3 model output.				