WorldClim - Global Climate Data

Free climate data for ecological modeling and GIS

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Downscaled Paleoclimate data

WorldClim 1.4 downscaled paleo climate

The data available here downscaled climate data from simulations with Global Climate Models (GCMs). The original data was made available by (CMIP5). These data were downscaled and calibrated (bias corrected) using WorldClim 1.4 as baseline 'current' climate. The file format is GeoTIFF.

There is data for the Mid-Holocene (About 6000 years ago) and the Last Glacial Maximum (about 22,000 years ago). Go here for *future* climate data.

This spatial resolution available is between 30-seconds (of a longitude/latitude degree), or about 900 m at the equator to 10 minutes (18 km at the equator)

Variables:

tn - monthly average minimum temperature (degrees C * 10)

tx - monthly average maximum temperature (degrees C * 10)

pr - monthly total precipitation (mm)

bc - 'bioclimatic' variables

Mid Holocene

GCM	code	10 minutes	5 minutes	2.5 minutes	30 seconds
BCC-CSM1-1	BC	tn, tx, pr, bi			
CCSM4	CC	tn, tx, pr, bi			
CNRM-CM5 (#)	CN	tn, tx, pr, bi			
HadGEM2-CC	HG	tn, tx, pr, bi			
HadGEM2-ES	HE	tn, tx, pr, bi			
IPSL-CM5A-LR	IP	tn, tx, pr, bi			
MIROC-ESM (#)	MR	tn, tx, pr, bi			
MPI-ESM-P	ME	tn, tx, pr, bi			
MRI-CGCM3	MG	tn, tx, pr, bi			

Last Glacial Maximum

GCM	code	10 minutes	5 minutes	2.5 minutes
CCSM4	CC	tn, tx, pr, bi	tn, tx, pr, bi	tn, tx, pr, bi
MIROC-ESM (#)	MR	tn, tx, pr, bi	tn, tx, pr, bi	tn, tx, pr, bi
MPI-ESM-P	ME	tn, tx, pr, bi	tn, tx, pr, bi	tn, tx, pr, bi

[#] available for non-commercial use only

Last inter-glacial

Here are also downscaled data for the last interglacial (LIG; ~120,000 - 140,000 years BP) (source: Otto-Bliesner et al., 2008 at 30 arcseconds resolution: tn, tx, pr, bi

www.worldclim.com/paleo-climate1