

High Resolution Köppen-Geiger Classifications of Paleoclimate Simulations

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Abstract:

The development and application of an algorithm to compute Köppen-Geiger climate classifications from the Coupled Model Intercomparison Project (CMIP) and Paleo Model Intercomparison Project (PMIP) climate model simulation data is described in this study. The classification algorithm was applied to data from the PMIP III paleoclimate experiments for the Last Glacial Maximum, 21k years before present (yBP), Mid-Holocene (6k yBP) and the Pre-Industrial (0k yBP, control run) time slices. To infer detailed classification maps, the simulation datasets were interpolated to a higher resolution. The classification method presented is based on the application of Open Source Software, and the implementation is described with attention to detail. The source code and the exact input data sets as well as the resulting data sets are provided to enable the application of the presented approach.

URLs:

<http://onlinelibrary.wiley.com/doi/10.1111/tgis.12187/abstract>

<http://crc806db.uni-koeln.de/publication/show/high-resolution-kppengeiger-classifications-of-paleoclimate-simulations1457604772>

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