

**Regional climate dynamics during the last 2000 years - the PAGES 2k Network**

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Past climates are rich resources to learn about the dynamics of the climate system on interannual to multicentennial timescales and to provide Earth System Models (ESMs) with benchmarks different from present. Matching the increasing resolution of ESMs and serving the need for regional climate change information requires improving the quality of reconstructions of past climates. Extending the record of climate change back in time beyond the instrumental period relies on well-dated and highly resolved proxy-based records derived from climate archives such as documentary evidence, tree rings, speleothems and ice cores. The Past Global Changes project (PAGES) has developed the Regional 2k Network with the aim to obtain detailed climate reconstructions over the last two millennia with worldwide coverage. For eight continental regions (including the Arctic/Antarctic area and the ocean regions adjacent to the reconstruction territories), regional working groups compile and analyze the best time series and spatial reconstructions of important state variables of the climate system (e.g., temperature, precipitation, surface and 500 hPa geopotential) in combination with the best ensemble runs of ESMs. The poster will present the status of data compilation and climate field reconstruction across all eight regions, with a focus on interannual to multidecadal variability of temperature during the cold and warm season.