

Interactive comment on “Spatio-temporal variability of Arctic summer temperatures over the past two millennia: an overview of the last major climate anomalies” by Johannes P. Werner et al.

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Received and published: 22 May 2017

The PAGES Data Stewardship Integrative Activity seeks to advance best practices for sharing data generated and assembled as part of all PAGES-related activities. As part of this activity, a team of reviewers has been constituted for the “Climate of the Past 2000 years” Special Issue. The data team is reviewing the data handling within each of the CP-Discussion papers in relation to the CP data policy and current best practices. The team has identified essential and recommended additions for each paper, with the goal of achieving a high and consistent level of data stewardship across the 2k Special Issue. We recognize that an additional effort will likely be required to meet the high level of data stewardship envisaged, and we appreciate the dedication

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and contribution of the authors. This includes the use of Data Citations (see example in supplement). We ask authors to respond to our comments as part of the regular open interactive discussion. If you have any questions about PAGES Data Stewardship principles, please contact any of us directly.

Best wishes for the success of your paper,

2k Special Issue Data Review Team (Darrell Kaufman, Nerilie Abram, Belen Martrat, Raphael Neukom, Scott St. George) and ex-officio team members (Marie-France Loutre, Lucien von Gunten)

Essential additions for this paper:

- (1) Move the "Data Availability" section from the Appendix to the main text and update it to include the Data Citation/URL for the reconstructions generated in this study.
- (2) Add the missing "data URL" to Tables A1 and A2. Note the typos in a few of the URLs as listed.
- (3) Correct the Site IDs in Table A1 so they match the PAGES IDs in version 2.0 of the PAGES 2k database (e.g., Lake Nautajarvi is Arc_026, not Arc_025 as listed in the table). Change "Site ID" to "PAGES2k ID"
- (4) Submit the primary outcome of this study (ensemble reconstruction, gridded ensemble mean and area mean) to a public repository and include the Data Citation/URL in "Data Availability".

Recommended element:

- (5) Add a link to the BitBucket URL that includes the code used for the reconstruction.

Please also note the supplement to this comment:

<http://www.clim-past-discuss.net/cp-2017-29/cp-2017-29-EC1-supplement.pdf>

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