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Jomelli, V, Lane, TP, Favier, V, Masson-Delmotte, V, Swingedouw, D, Rinterknecht, V, Schimmelpfennig, I, Schimmelpfennig, D, Verfaillie, D, Adamson, K, Leanni, L, Mokadem, F and ASTER Team,

Paradoxical cold conditions during the medieval climate anomaly in the Western Arctic

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Supplementary Online Material

Paradoxical cold conditions during the medieval climate anomaly in the Western Arctic

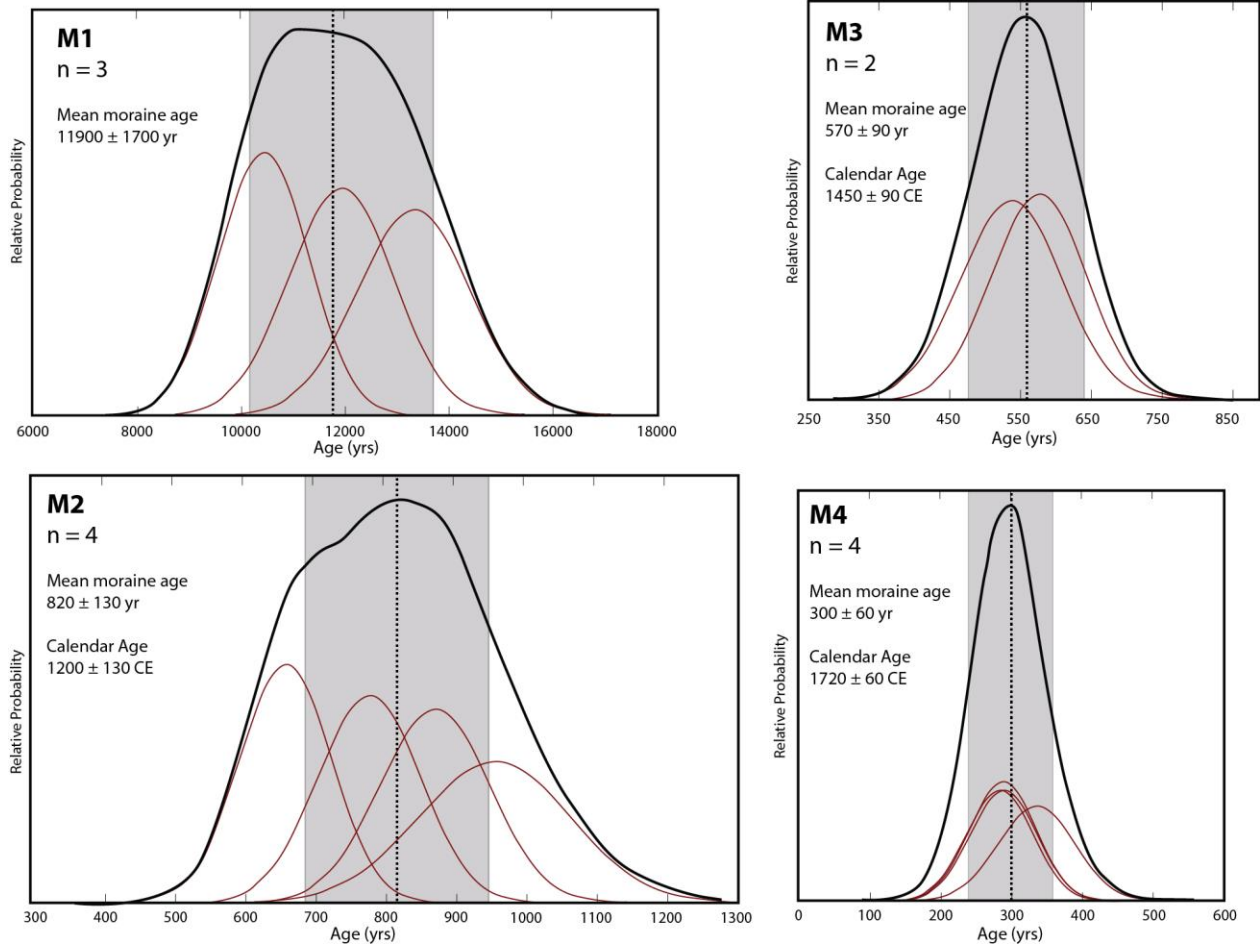
Vincent Jomelli*, Timothy Lane, Vincent Favier, Valerie Masson-Delmotte, Didier Swingedouw, Vincent Rinterknecht, Irene Schimmelfennig, Daniel Brunstein, Deborah Verfaillie, Kathryn Adamson, Laëtitia Leanni, Fatima Mokadem, ASTER Team

The following pages include:

Figure S1

The list of extended tables 1-5

References



Extended Data Figure 1. Summed probability plots the ^{36}Cl surface exposure ages for each moraine based on the “Schimmelfennig” production rate set (Methods). Red gaussians are the individual boulder ages with 1σ analytical uncertainty only. Dashed vertical lines are the arithmetic means. Grey bands represent the 1σ errors including standard deviation, analytical and production rate errors.

Table S1: Sample locations and sample-specific information.

Table S2: Chemical compositions of two bulk rock samples before acid etching. Analysis performed at the SARM-CRPG (Nancy, France) by ICP-OES (major elements), ICP-MS (trace element), atomic absorption (Li), colorimetry (B) and spectrophotometry (Cl). The

Table S3: Concentrations of the ^{36}Cl target elements, determined in splits taken from the samples after the acid etching to remove ~20% of the samples. Analysis performed at the SARM-CRPG (Nancy, France) by ICP-OES. Concentrations of the target element Cl

Table S4: ^{36}Cl dating results, including measured $^{35}\text{Cl}/^{37}\text{Cl}$ and $^{36}\text{Cl}/^{35}\text{Cl}$ ratios, inferred ^{36}Cl and Cl concentrations, individual sample ages, and landform mean ages. Data for the two procedural blanks (DIS-Bk_01 and DIS-Bk_02) are also included. DIS-Bk_

Table S5: Climate models description

Supplementary References

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