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Supplement of

The weather of 1740, the coldest year in central Europe in 600 years

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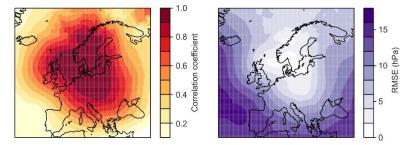


Fig. S1. Cross-validation of analog sea-level pressure reconstruction within ERA5. The year 1940 was reconstructed based on the years 1941-2022 in ERA5. Left: Correlation coefficient, right: root mean squared error

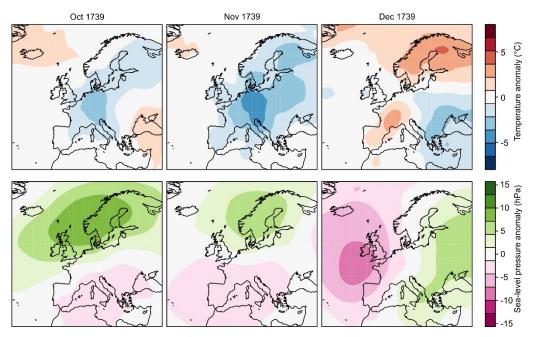


Fig. S2. Monthly anomalies (with respect to 1710-1739) of (top) temperature and (bottom) sea-level pressure in Oct-Dec 1739 in the ModE-RA ensemble mean.

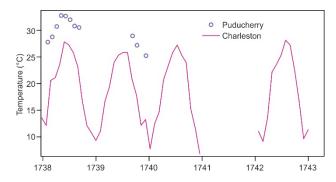


Fig. S3. The only two available non-European temperature series that cover the boreal winter 1739/40

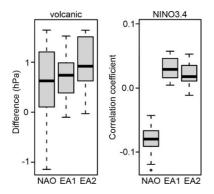


Fig. S4. Left: Averaged NAO and EA indices in ModE-RA following volcanic eruptions in 1710-2000 (expressed as anomalies from the average of all years). Right: Correlations between NINO3.4 (Sep-Feb) and indices of NAO (Jan-Feb) and EA1 and EA2 (Mar-May) in ModE-RA in 1710-2000. The box plots show the distribution of the ModE-RA members.