1 **The weather of 1740, the coldest year in Central Europe in 600 years**

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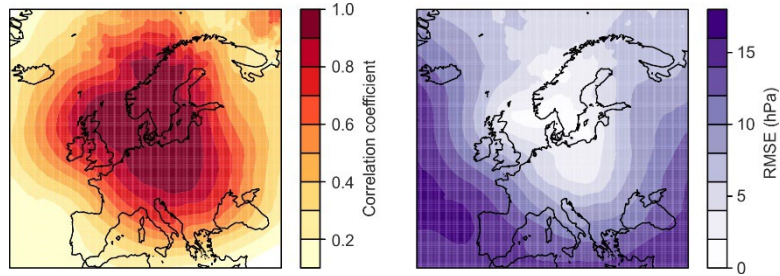
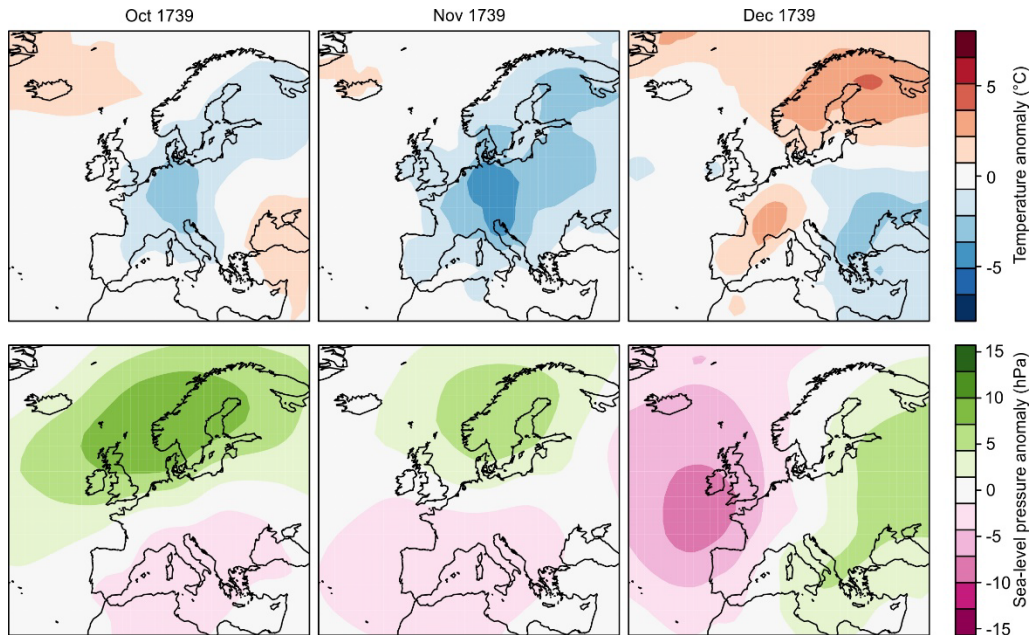
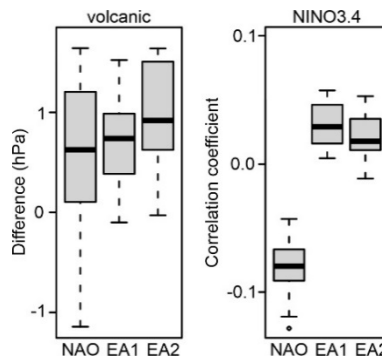
3 **Supplementary Figures**

4

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

8

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

11

12 **Fig. S3.** Left: Averaged NAO and EA indices in ModE-RA following volcanic eruptions in 1710-2000
13 (expressed as anomalies from the average of all years). Right: Correlations between NINO3.4 (Sep-Feb) and
14 indices of NAO (Jan-Feb) and EA1 and EA2 (Mar-May) in ModE-RA in 1710-2000. The box plots show the
15 distribution of the ModE-RA members.