

1 **Supplementary information**

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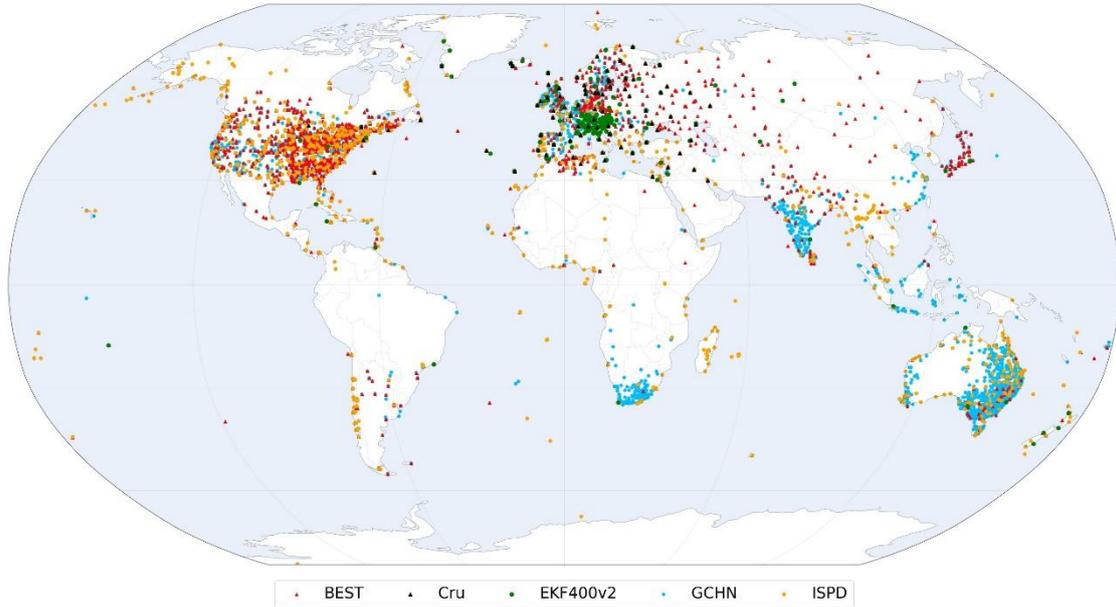
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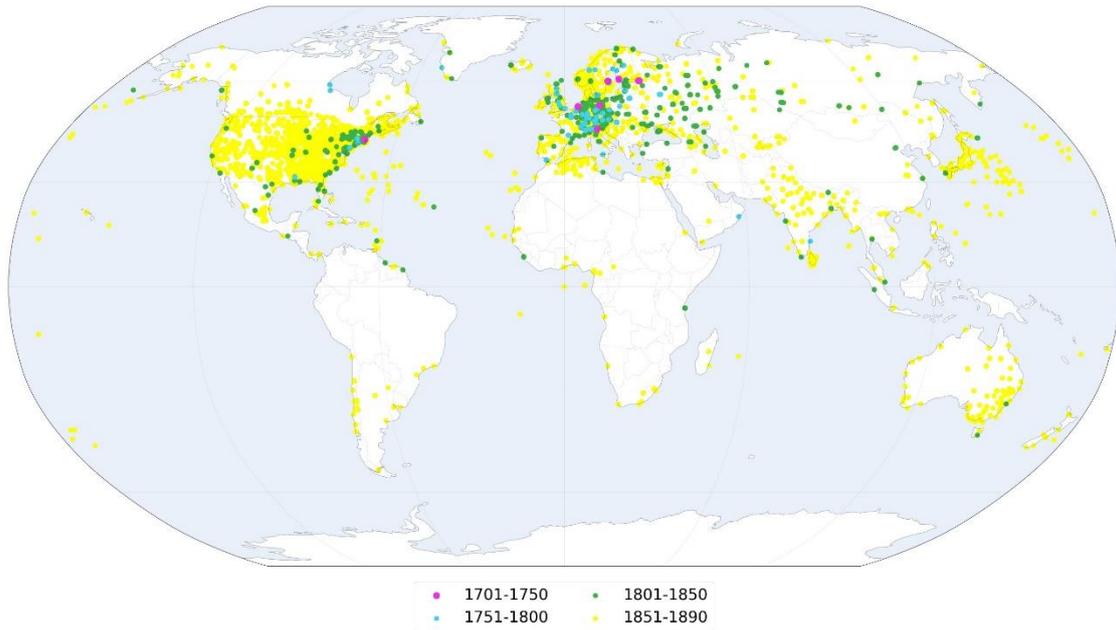
9 [Supplementary Table 1. Other small datasets or individual stations](#)

| References | Spatial Coverage | Monthly Resolution Parameter (Number of records) | Daily Resolution Parameter (Number of records) | Name | Web address and data |
|---------------------------------------|--------------------|--|--|---|---|
| Allan et al., 2011 | Chile Iceland | | Ta (5) P (6) | ACRE | 25 & 29 |
| Alcoforado et al., 2012 | Portugal | Ta (2) RR (2) NR (2) | | Early Portuguese Meteorological Measurements | 88 |
| Brázdil et al., 2008 | Slovakia | | Ta (1) P (1) | Eperjes (Now: Prešov) | 89 |
| Kunz et al., 2022 | Karlsruhe, Germany | | T (1) P (1) | The Karlsruhe climate time series since 1779 | 90 |
| Camuffo, et al., 2020 | Italy | | RR (1) | Three centuries of daily precipitation in Padua, Italy | 91 |
| Camuffo, et al., 2020 | Italy | | Ta (1) | Temperature observations in Florence, Italy, after the end of the Medici Network | 92 |
| Camuffo, et al., 2017 | Italy | | Ta (1) | Temperature observations in Bologna, Italy | 93 |
| Cornes, R.C., 2020 | England | Ta (1) P (1) | Ta (1) P (1) | Robert Boyle's weather journal for the year 1685 | 94 |
| Demarée, G.R. & Ogilvie, A.E.J., 2011 | Labrador, Canada | Ta (1) P (1) | | The Case of Iceland and Labrador | 95 |
| Dominguez-Castro, et al., 2014 | Spain | RR (1) NR (1) | | Early Spanish meteorological records | 96 |
| Filipiak, 2010 | Poland | Ta (1) RR (1) | | History of the Gdańsk Pre-Instrumental | 97 |
| Rodrigo, F.S., 2019 | Spain, West-Africa | Ta (2) P (1) RR (2) NR (3) | | The climate of Granada (southern Spain) & EMOWA, Early Meteorological Observations in West Africa | 98 & 99 |
| Slonosky, V. C., 2015 | Canada | | Ta (16) | Daily minimum and maximum temperature in the St-Lawrence Valley, Quebec | 28 & 100 (Part of ACRE_Canada) |
| Slonosky, V. C., 2003 | Quebec, Canada | | Ta (1) | The Meteorological Observations of Jean-François Gaultier, Quebec, Canada: | 101 |
| Thomas Jefferson's weather journal | USA France | | Ta (4) P (1) | The Jefferson Weather & Climate Record | 102 |
| Ives, G., 2020 | India | RR (3) | | A history of the monsoon in southern India between 1730 and 1920 and its impact on society | 103 |

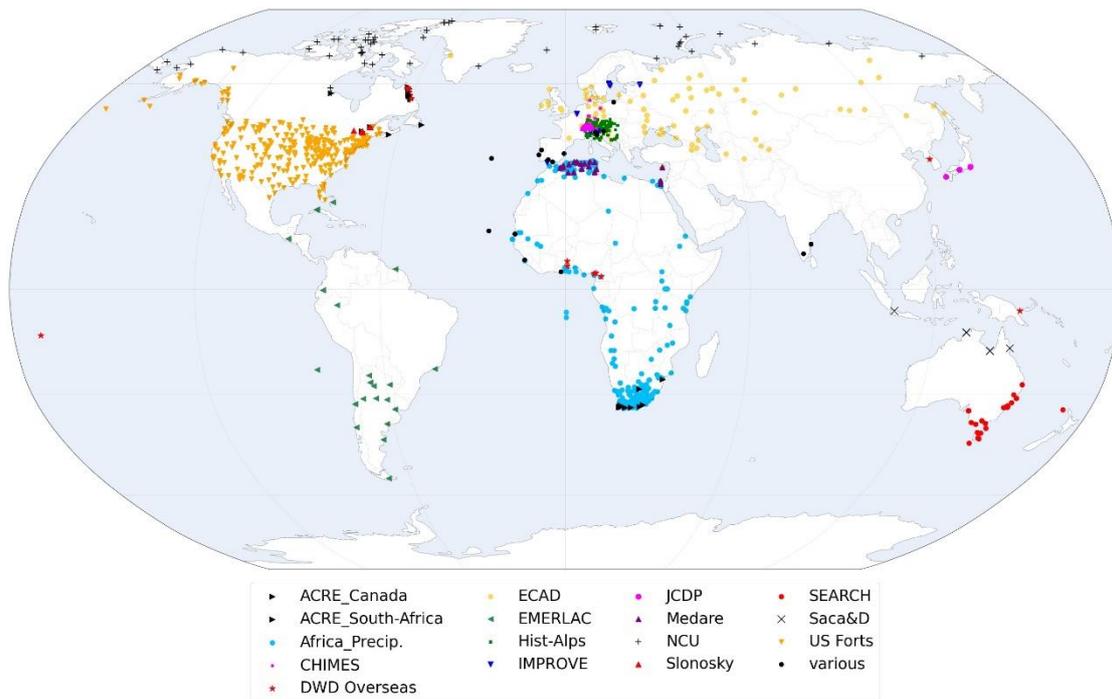
10 The supplementary figures show originally global databases such as for instance the
11 Berkely Earth database (BEST) in Figure 1. Figure 2 shows the ISTI dataset.
12 Supplementary Figure 3 shows regional datasets.



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14 *Supplementary Figure 1. Temperature records from the global databases shown with different*
15 *sources.*
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18 *Supplementary Figure 2. Stations from the ISTI dataset.*



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20 *Supplementary Figure 3. Stations from the regional databases categorized according to sources.*