

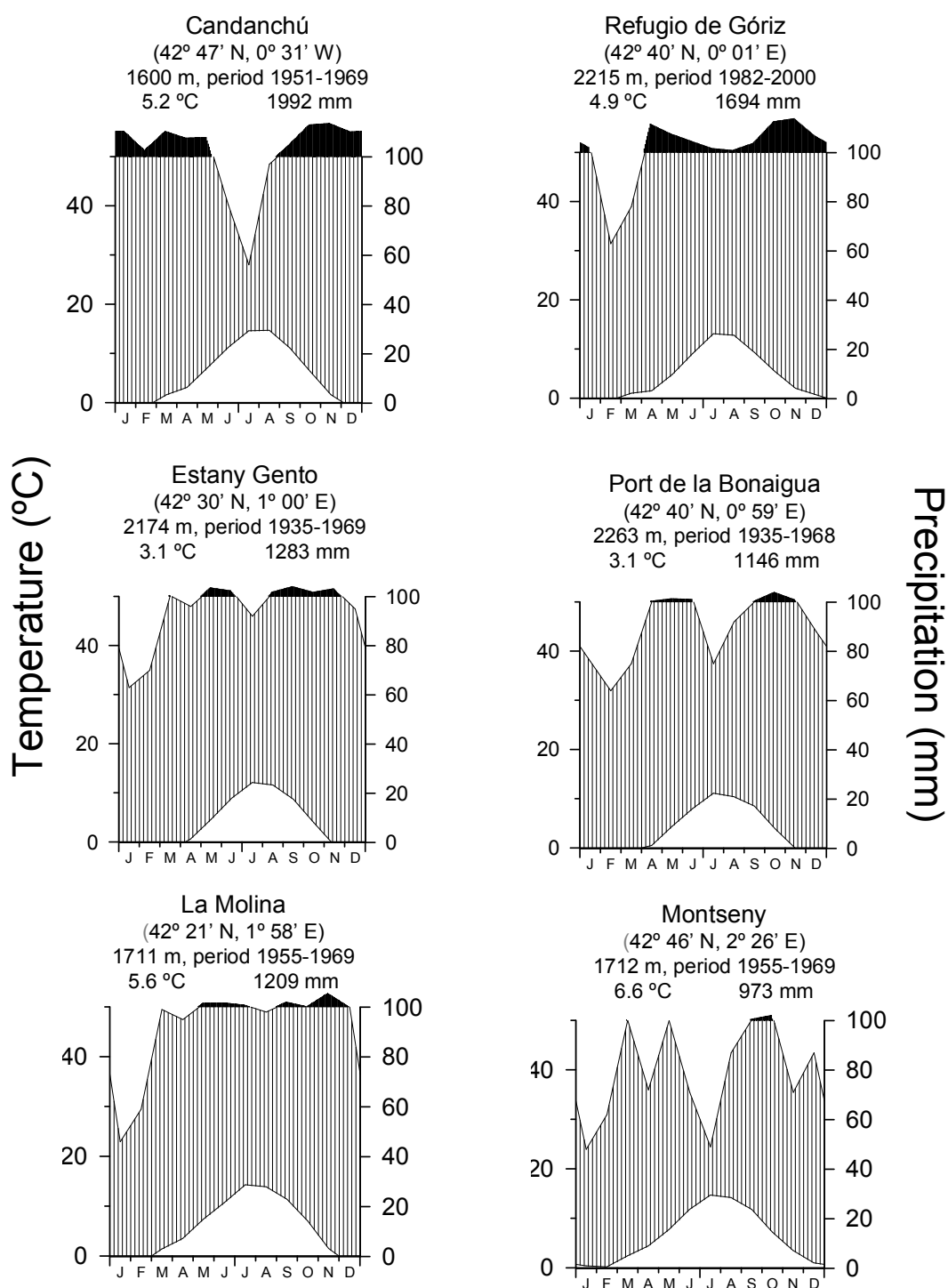
## Electronic Supplementary Material

Article title: Complex climate constraints of upper treeline formation in the Pyrenees. Trees-Structure and Function. González de Andrés E, Camarero JJ\*, Büntgen U.

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### Online Resource 1

Representative climate diagrams of the treeline study sites. The following meteorological stations illustrate climatic conditions near the following study sites (see sites' codes in Table 1): Candanchú and Refugio de Góriz, sites SO and AU; Estany Gento and Port de la Bonaigua, sites GE and CA; La Molina and Montseny, sites EY and CN. All stations are located in the Spanish Pyrenees excepting Montseny, a coastal range located in Catalonia, NE Spain. Data were obtained from the Spanish Meteorological Agency (AEMET) and the web <http://www.globalbioclimatics.org>



**Online Resource 2**

Trends in standardized mean annual temperatures during the period 1950-2008 in the study treeline sites (SO, AU, GE, CA, EY, CN; see codes in Table 1) as compared with data from a Pyrenean high-elevation site (Pic du Midi, period 1950-1984). Temperature data correspond to the CRU TS 3.0 data set gridded at 0.5° resolution. Note that data used in the pairs of sites SO-AU and EY-CN are the same because they are located included in the same 0.5° grids

