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Supplement of

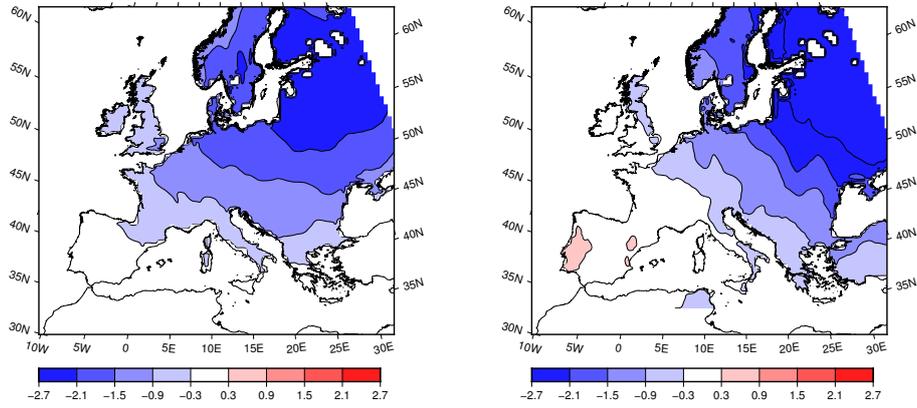
A regional climate palaeosimulation for Europe in the period 1500–1990 – Part 2: Shortcomings and strengths of models and reconstructions

J. J. Gómez-Navarro et al.

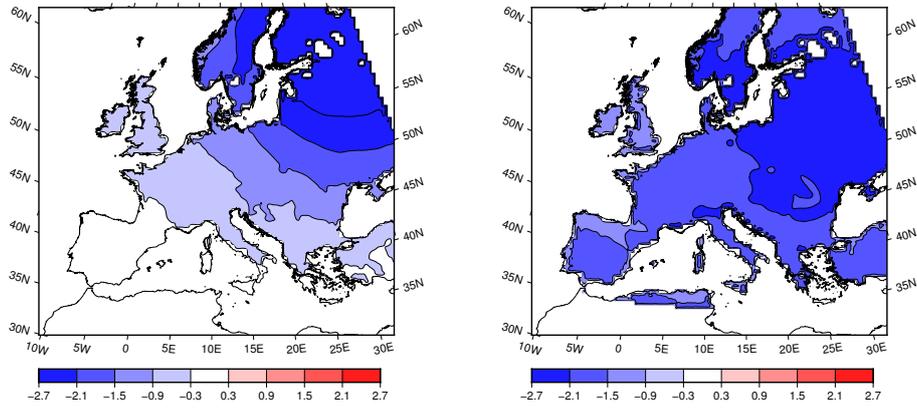
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EOF1 SAT (x 1) in DJF in CRU3GRID2 (61.706 %) EOF1 SAT (x 3) in JJA in CRU3GRID2 (36.98 %)



EOF1 SAT (x 1) in DJF in MM5GRID2 (71.407 %) EOF1 SAT (x 3) in JJA in MM5GRID2 (57.074 %)



EOF1 SAT (x 1) in DJF in LUTGRID2 (73 %) EOF1 SAT (x 3) in JJA in LUTGRID2 (48.029 %)

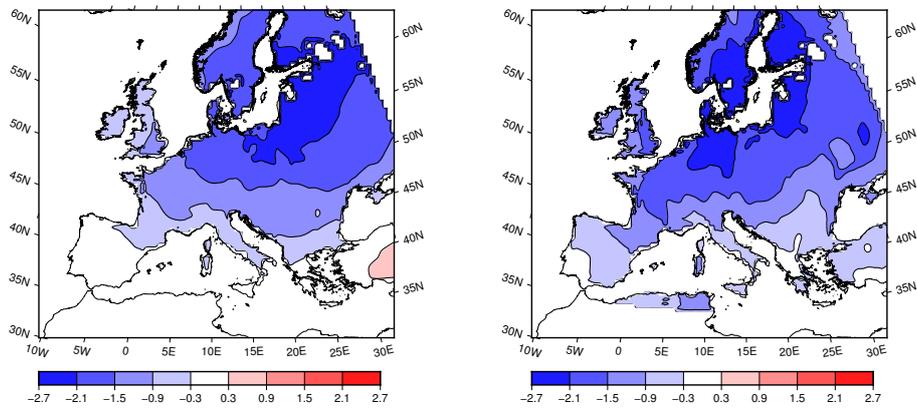
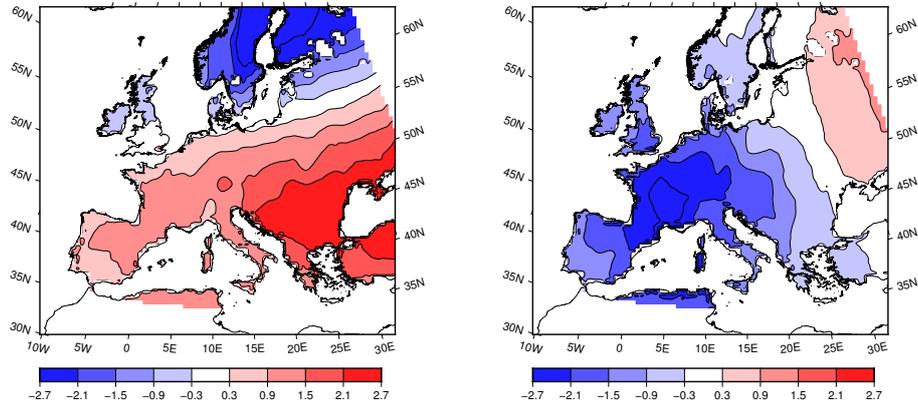
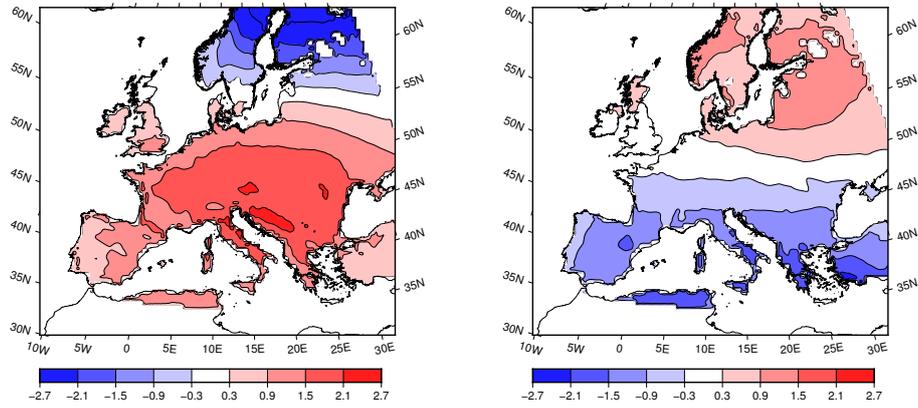


Figure S1: EOF1 for SAT in in DJF (left) and JJA (right). Top correspond to NCEP and CRU, middle to ECHOG-MM5 and bottom to reconstruction. 2

EOF2 SAT (x 2) in DJF in CRU3GRID2 (16.501 %) EOF2 SAT (x 3) in JJA in CRU3GRID2 (20.516 %)



EOF2 SAT (x 2) in DJF in MM5GRID2 (13.196 %) EOF2 SAT (x 3) in JJA in MM5GRID2 (11.853 %)



EOF2 SAT (x 2) in DJF in LUTGRID2 (17.168 %) EOF2 SAT (x 3) in JJA in LUTGRID2 (25.733 %)

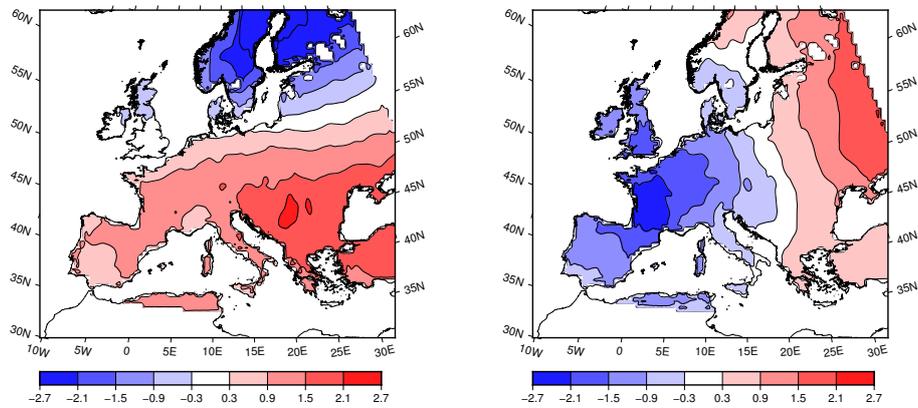
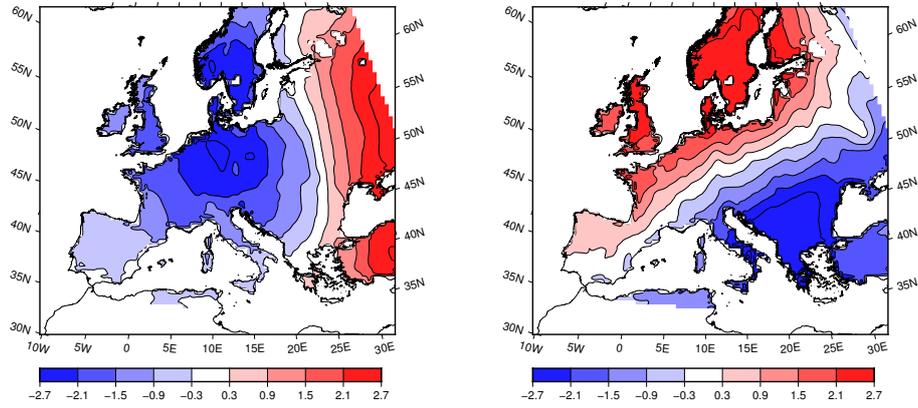
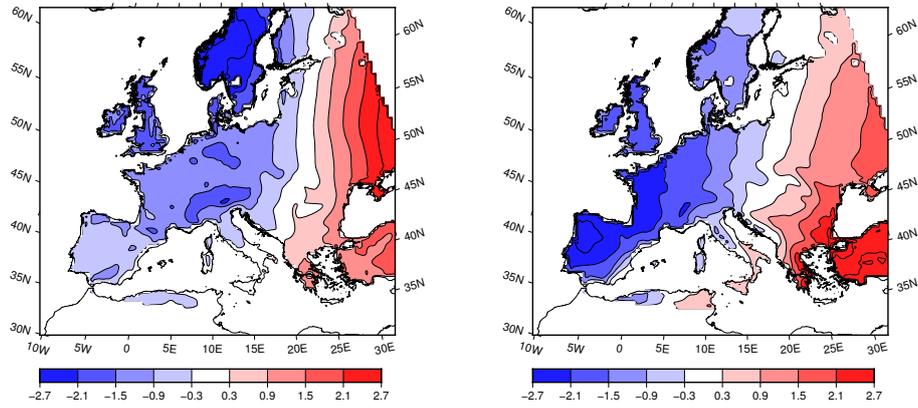


Figure S2: EOF2 for SAT in in DJF (left) and JJA (right). Top correspond to NCEP and CRU, middle to ECHOG-MM5 and bottom to reconstruction. 3

EOF3 SAT (x 3) in DJF in CRU3GRID2 (7.5717 %) EOF3 SAT (x 5) in JJA in CRU3GRID2 (12.148 %)



EOF3 SAT (x 3) in DJF in MM5GRID2 (5.5556 %) EOF3 SAT (x 5) in JJA in MM5GRID2 (10.566 %)



EOF3 SAT (x 3) in DJF in LUTGRID2 (5.5277 %) EOF3 SAT (x 5) in JJA in LUTGRID2 (13.093 %)

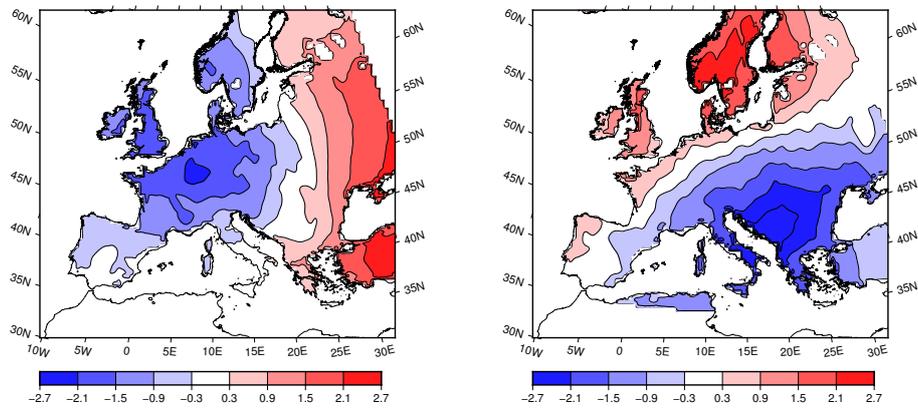
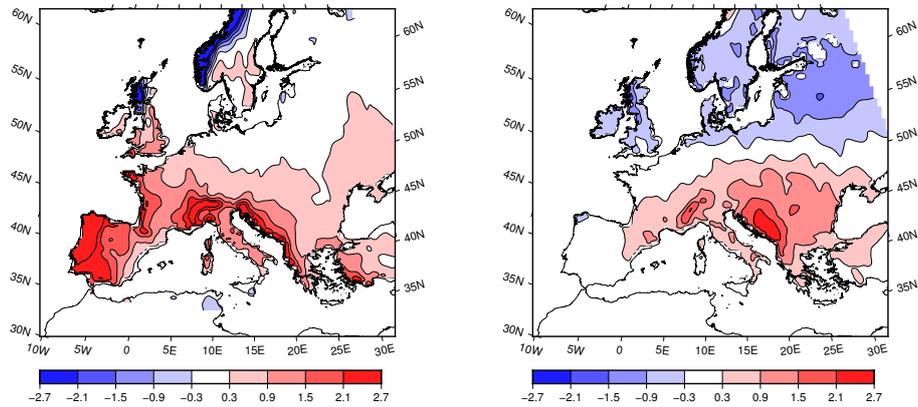
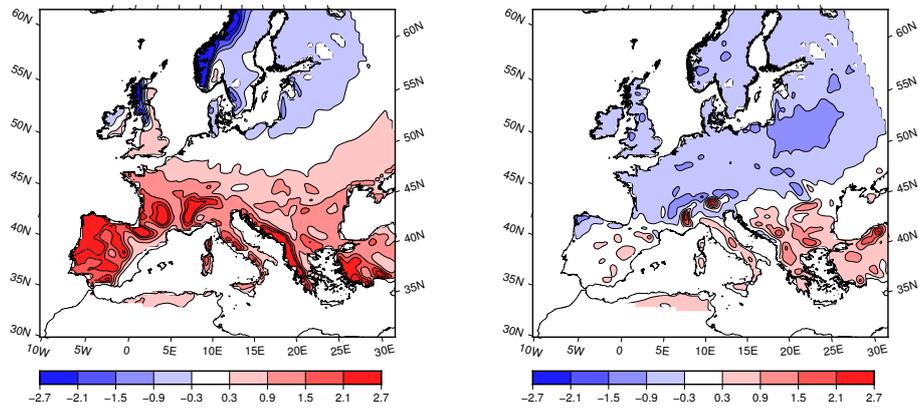


Figure S3: EOF3 for SAT in in DJF (left) and JJA (right). Top correspond to NCEP and CRU, middle to ECHOG-MM5 and bottom to reconstruction. 4

OF1 PRE (x 0.1) in DJF in CRU3GRID2 (29.534 %) OF1 PRE (x 0.1) in JJA in CRU3GRID2 (15.452 %)



OF1 PRE (x 0.1) in DJF in MM5GRID2 (34.301 %) OF1 PRE (x 0.1) in JJA in MM5GRID2 (11.83 %)



OF1 PRE (x 0.1) in DJF in LUTGRID2 (46.066 %) OF1 PRE (x 0.1) in JJA in LUTGRID2 (39.802 %)

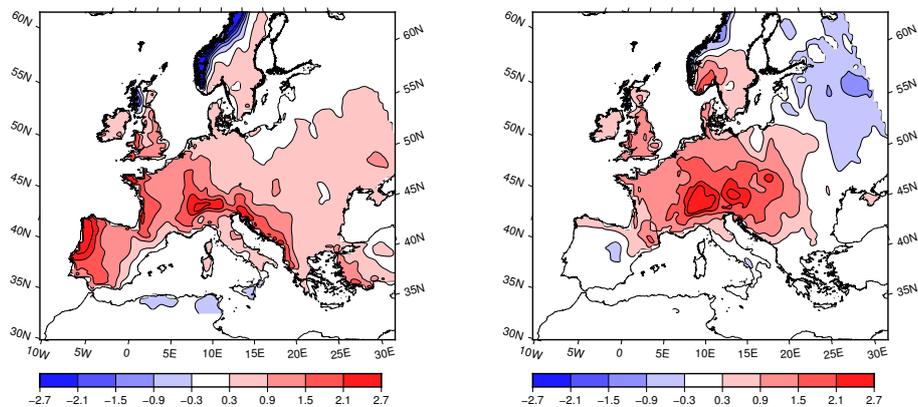
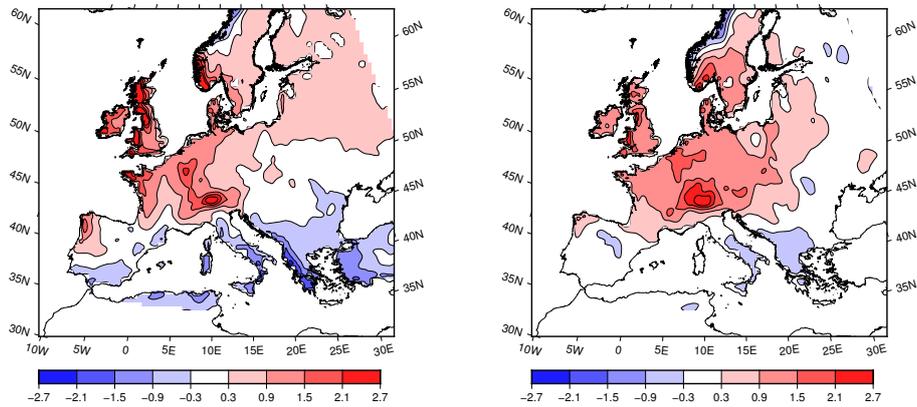
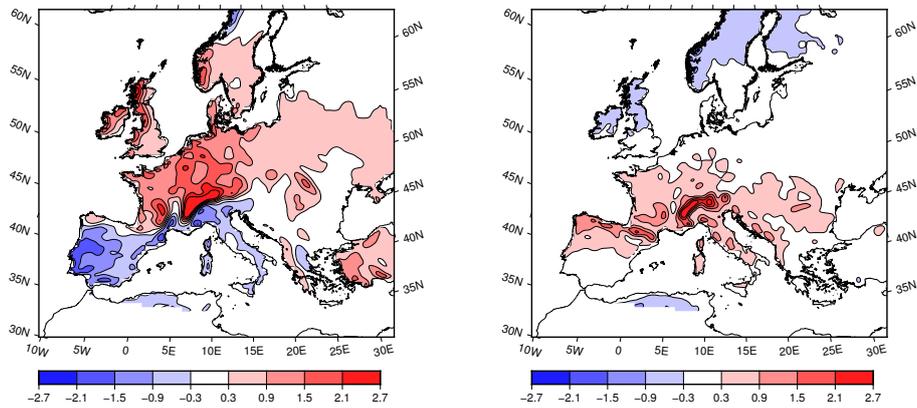


Figure S4: EOF1 for PRE in in DJF (left) and JJA (right). Top correspond to NCEP and CRU, middle to ECHOG-MM5 and bottom to reconstruction. 5

OF2 PRE (x 0.1) in DJF in CRU3GRID2 (14.613 %) OF2 PRE (x 0.1) in JJA in CRU3GRID2 (14.44 %)



OF2 PRE (x 0.1) in DJF in MM5GRID2 (14.72 %) OF2 PRE (x 0.1) in JJA in MM5GRID2 (8.1818 %)



OF2 PRE (x 0.1) in DJF in LUTGRID2 (21.087 %) OF2 PRE (x 0.1) in JJA in LUTGRID2 (19.017 %)

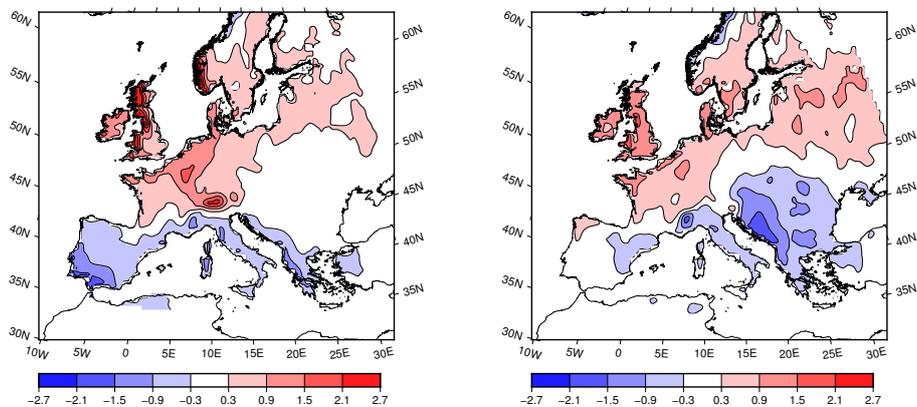
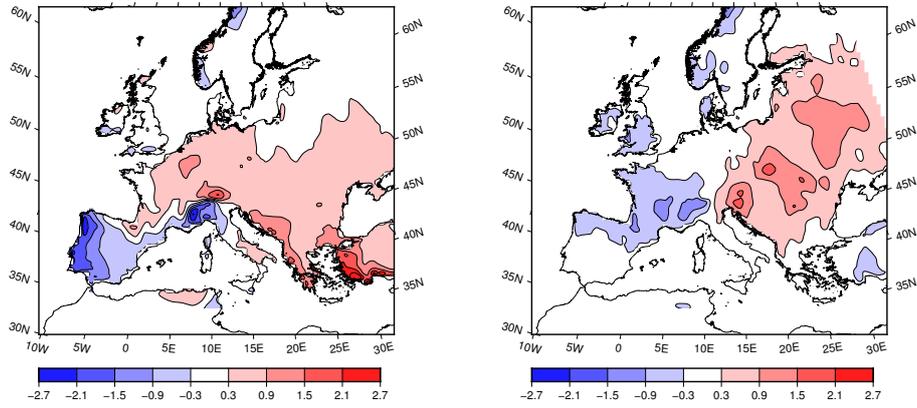
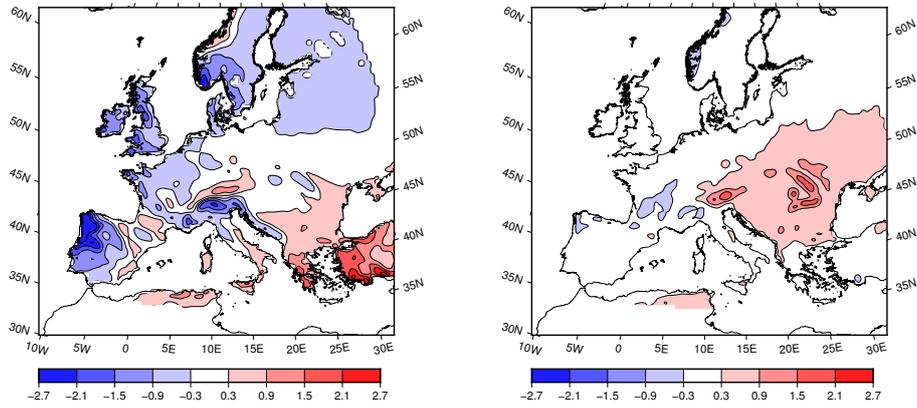


Figure S5: EOF2 for PRE in in DJF (left) and JJA (right). Top correspond to NCEP and CRU, middle to ECHOG-MM5 and bottom to reconstruction. 6

OF3 PRE (x 0.1) in DJF in CRU3GRID2 (8.514 ° OF3 PRE (x 0.1) in JJA in CRU3GRID2 (8.4884



OF3 PRE (x 0.1) in DJF in MM5GRID2 (11.336 ° OF3 PRE (x 0.1) in JJA in MM5GRID2 (5.2479 °



EOF3 PRE (x 0.1) in DJF in LUTGRID2 (8.09 % EOF3 PRE (x 0.1) in JJA in LUTGRID2 (8.9907 %

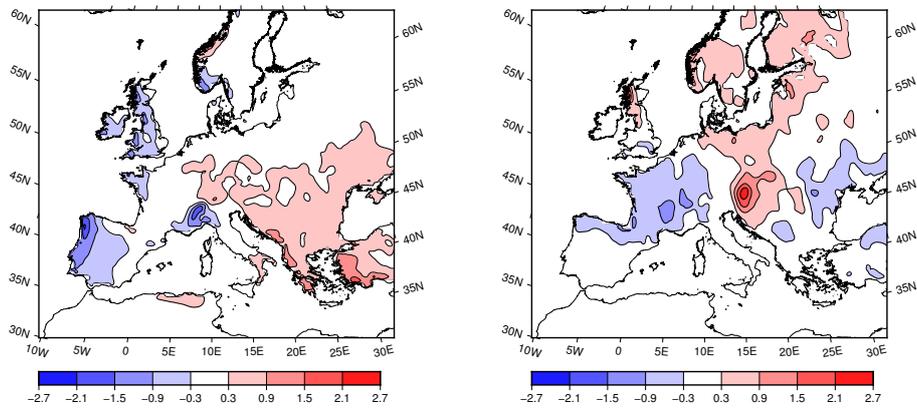


Figure S6: EOF3 for PRE in in DJF (left) and JJA (right). Top correspond to NCEP and CRU, middle to ECHOG-MM5 and bottom to reconstruction. 7

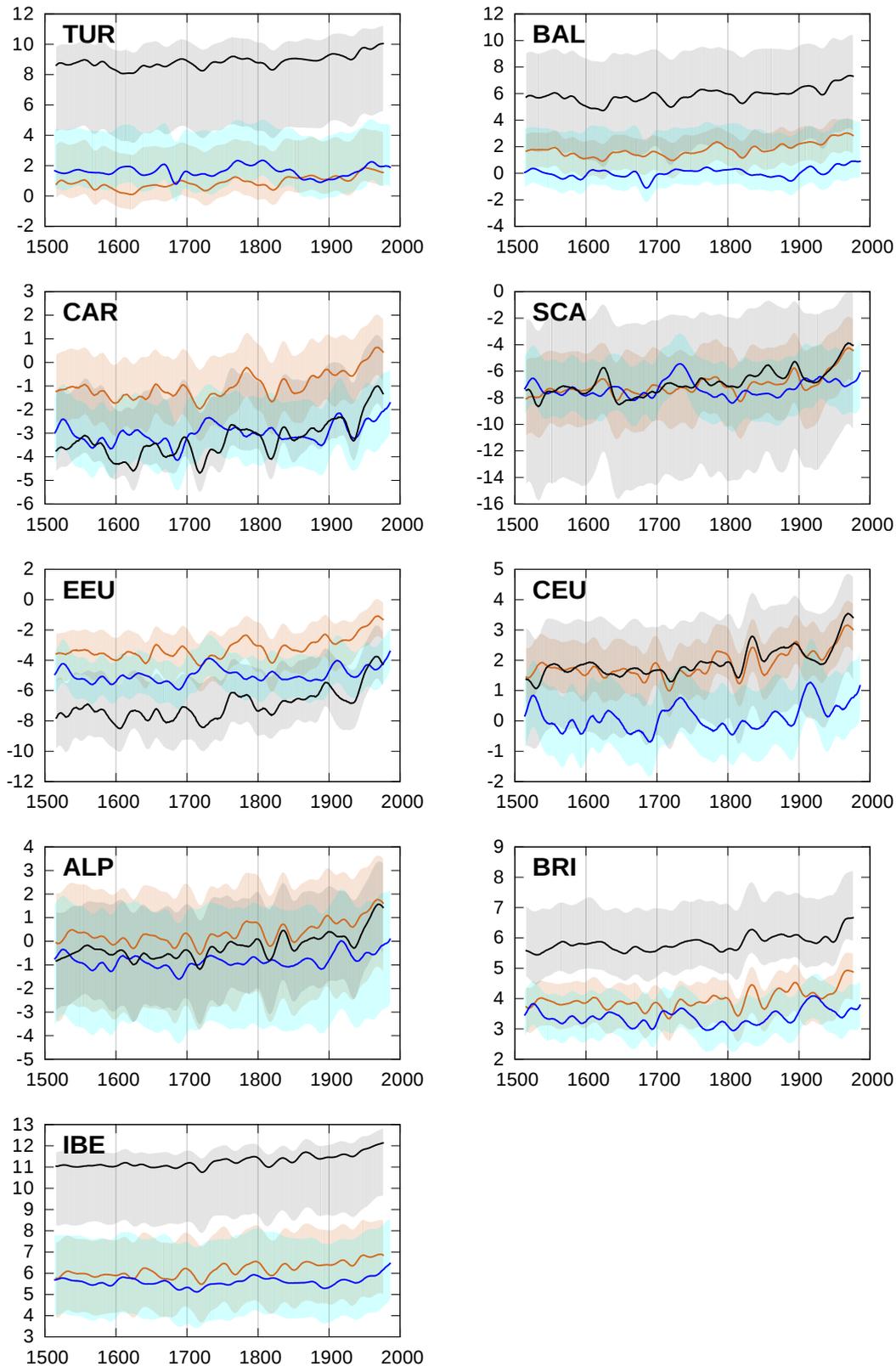


Figure S7: Temporal series of **SAT (C)** in each of the nine areas in Figure 1 in **winter**. Colour indicates to which data set each corresponds: ECHO-G (black), MM5-ECHO-G (brown) and the gridded reconstructions (blue). Bold lines correspond to the median, whereas the shading indicates the 25-50 interquartile range.

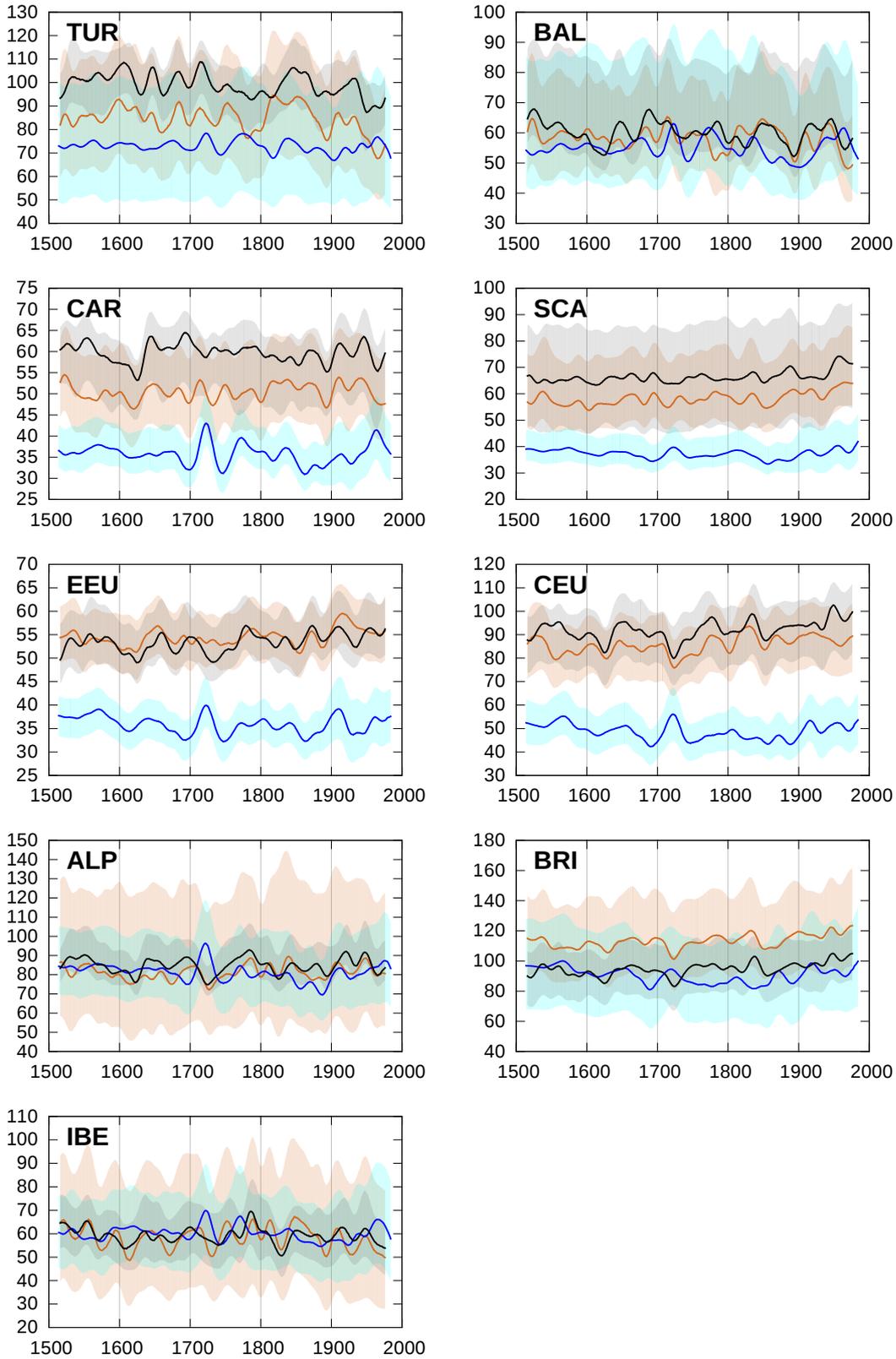


Figure S8: Temporal series of **precipitation (mm/month)** in each of the nine areas in Figure 1 in **winter**. Colour indicates to which data set each corresponds: ECHO-G (black), MM5-ECHO-G (brown) and the gridded reconstructions (blue). Bold lines correspond to the median, whereas the shading indicates the 25-50 interquartile range.

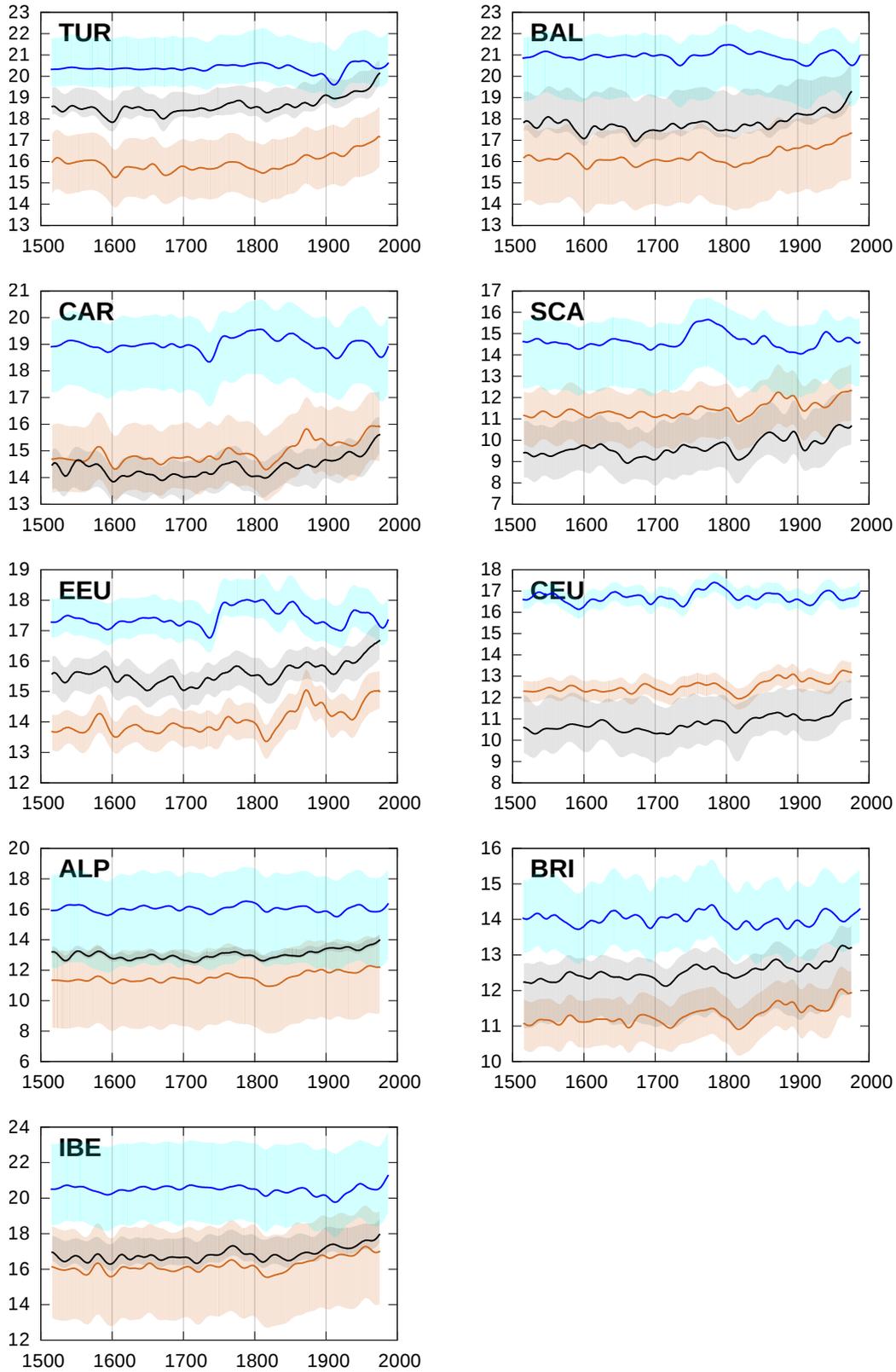


Figure S9: Temporal series of **SAT (C)** in each of the nine areas in Figure 1 in **summer**. Colour indicates to which data set each corresponds: ECHO-G (black), MM5-ECHO-G (brown) and the gridded reconstructions (blue). Bold lines correspond to the median, whereas the shading indicates the 25-50 interquartile range.

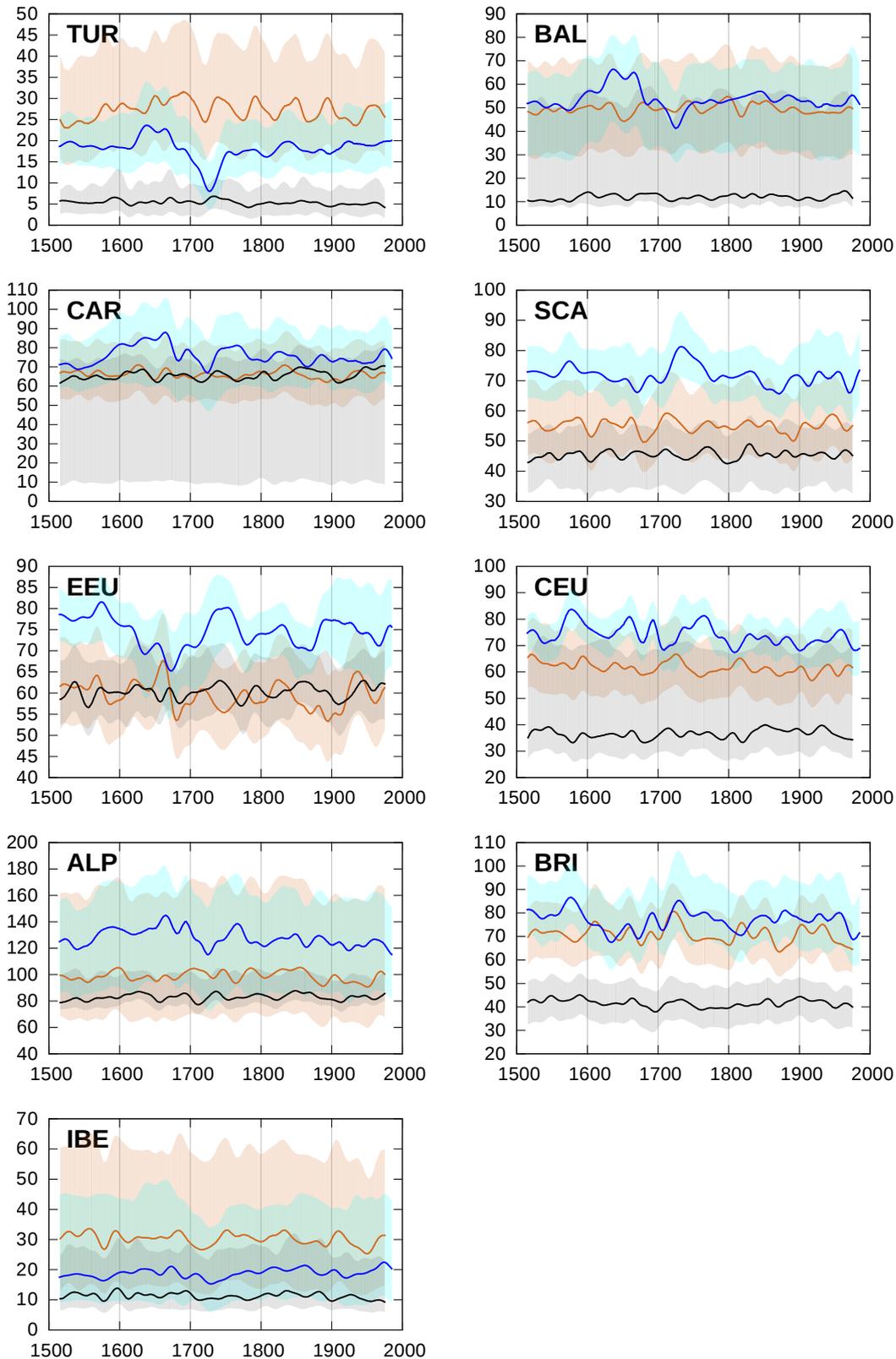


Figure S10: Temporal series of **precipitation (mm/month)** in each of the nine areas in Figure 1 in **summer**. Colour indicates to which data set each corresponds: ECHO-G (black), MM5-ECHO-G (brown) and the gridded reconstructions (blue). Bold lines correspond to the median, whereas the shading indicates the 25-50 interquartile range.

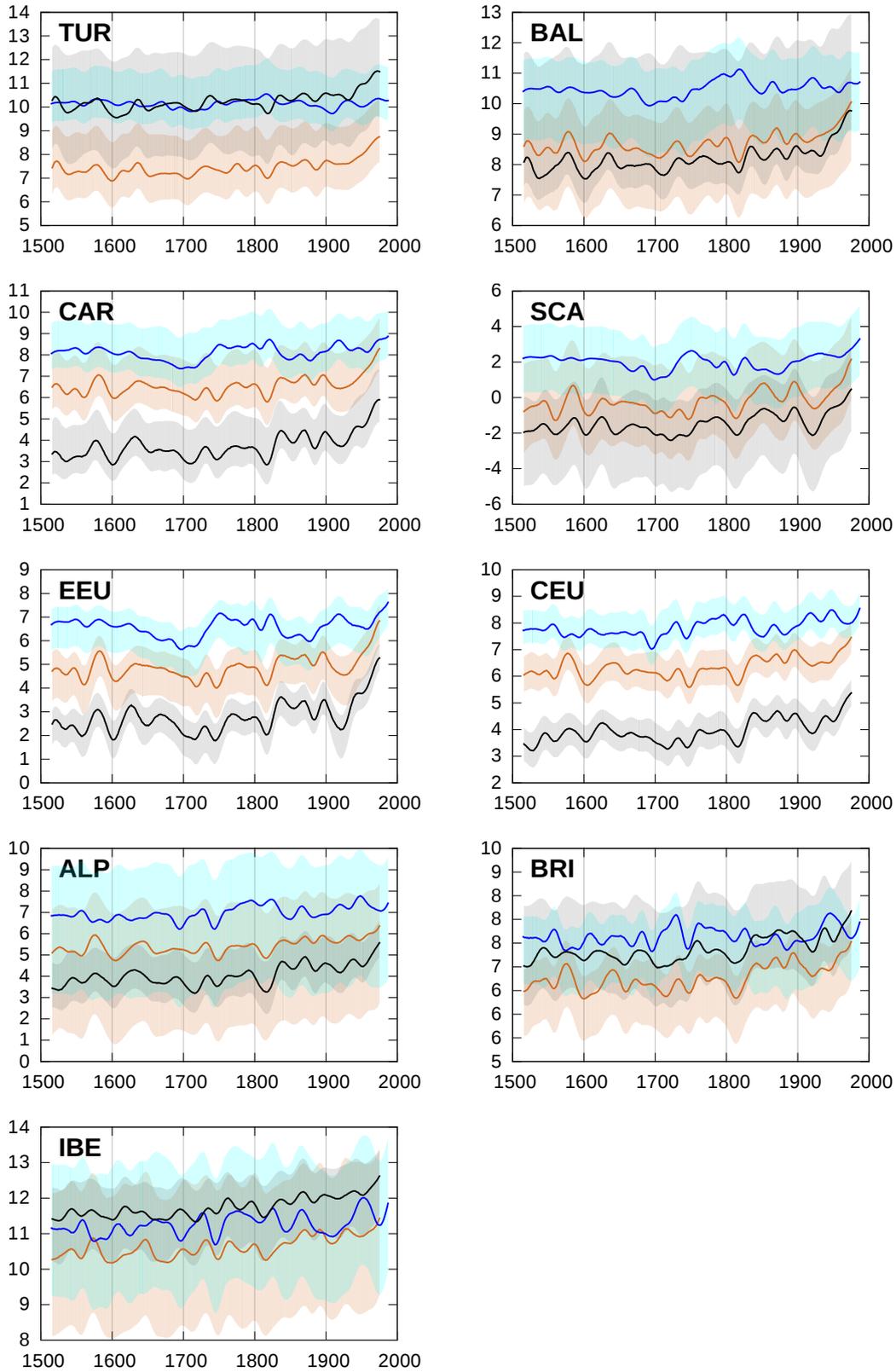


Figure S11: Temporal series of **SAT (C)** in each of the nine areas in Figure 1 in **spring**. Colour indicates to which data set each corresponds: ECHO-G (black), MM5-ECHO-G (brown) and the gridded reconstructions (blue). Bold lines correspond to the median, whereas the shading indicates the 25-50 interquartile range.

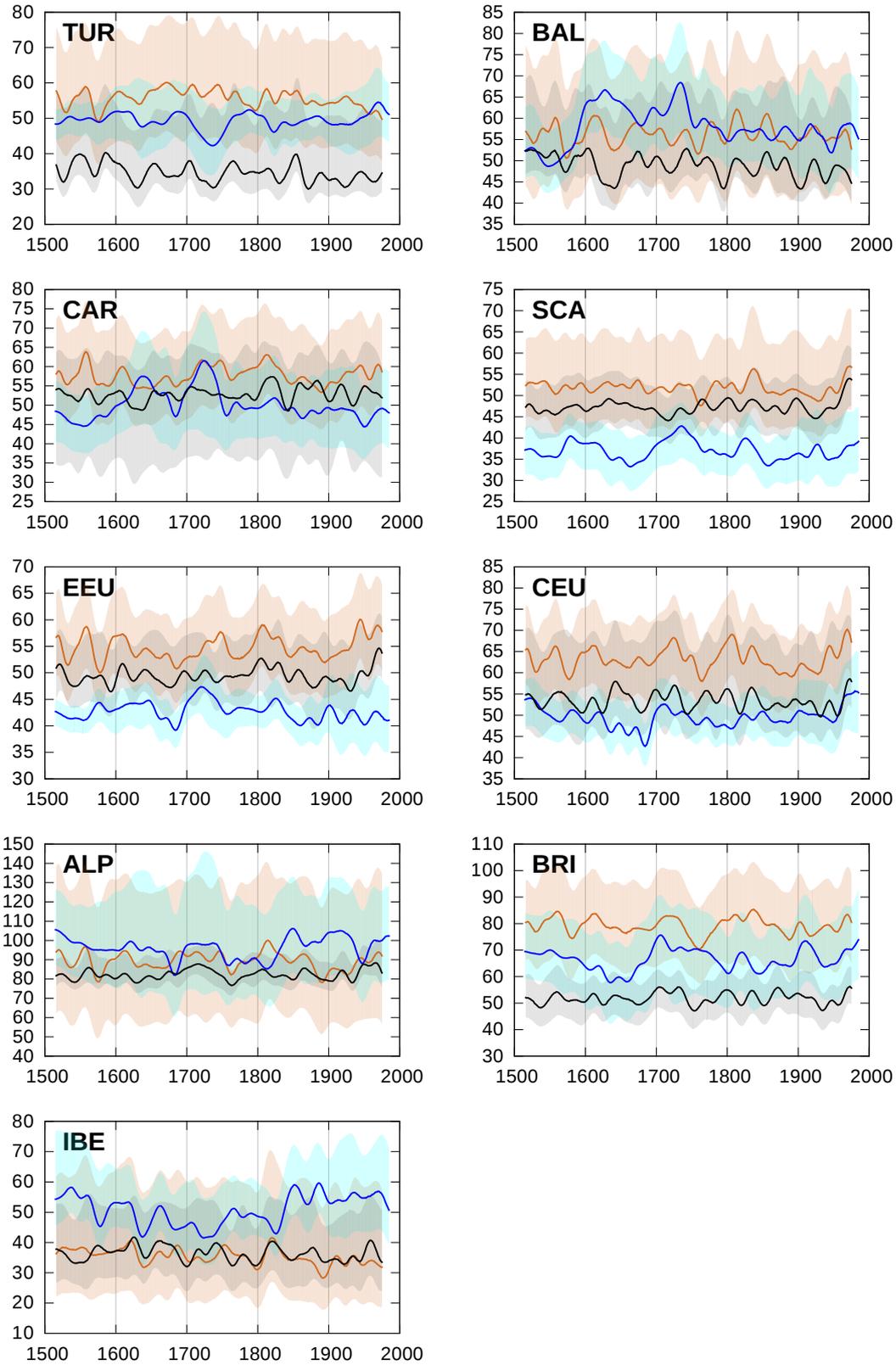


Figure S12: Temporal series of **precipitation (mm/month)** in each of the nine areas in Figure 1 in **spring**. Colour indicates to which data set each corresponds: ECHO-G (black), MM5-ECHO-G (brown) and the gridded reconstructions (blue). Bold lines correspond to the median, whereas the shading indicates the 25-50 interquartile range.

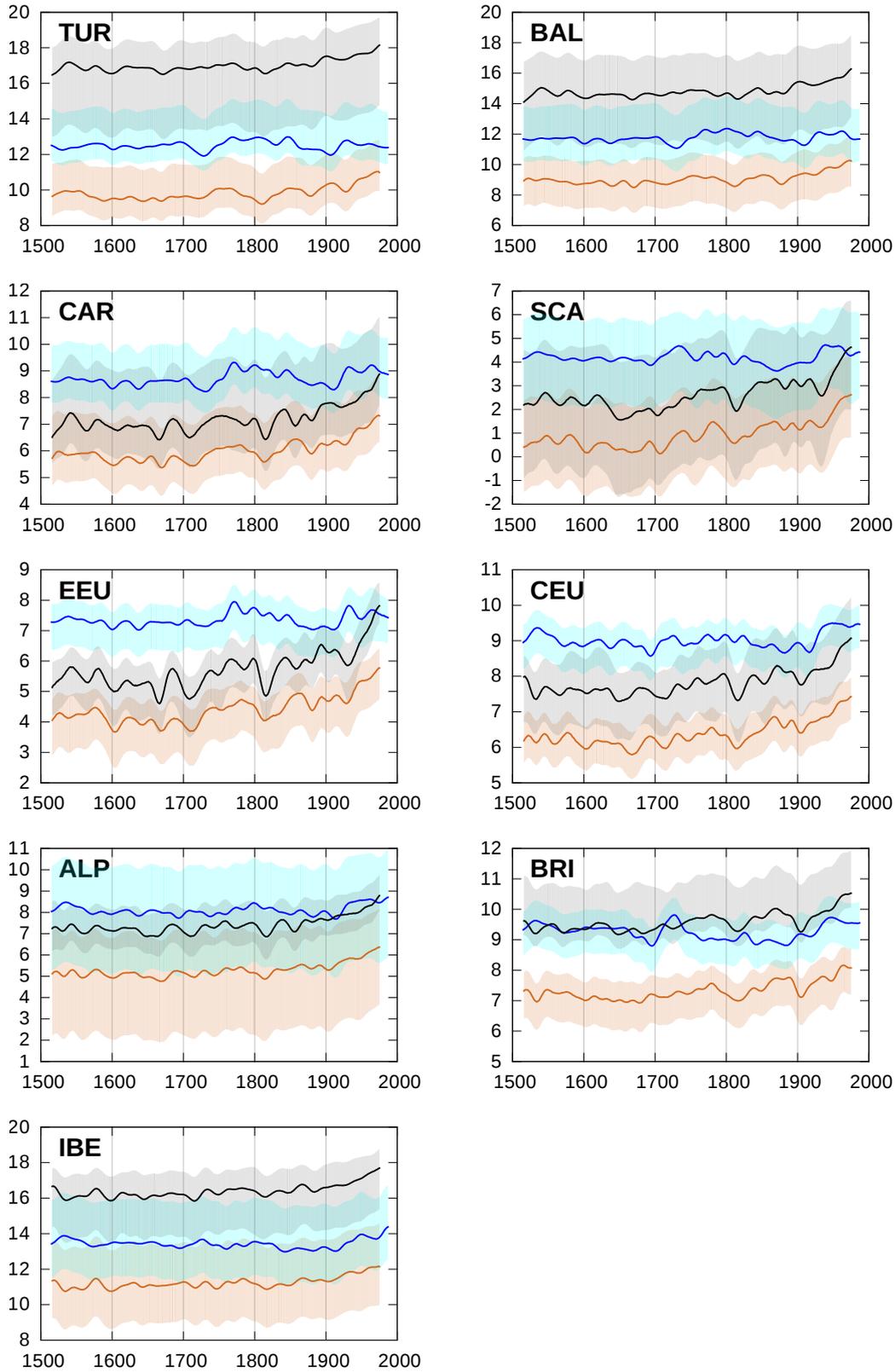


Figure S13: Temporal series of **SAT (C)** in each of the nine areas in Figure 1 in **autumn**. Colour indicates to which data set each corresponds: ECHO-G (black), MM5-ECHO-G (brown) and the gridded reconstructions (blue). Bold lines correspond to the median, whereas the shading indicates the 25-50 interquartile range.

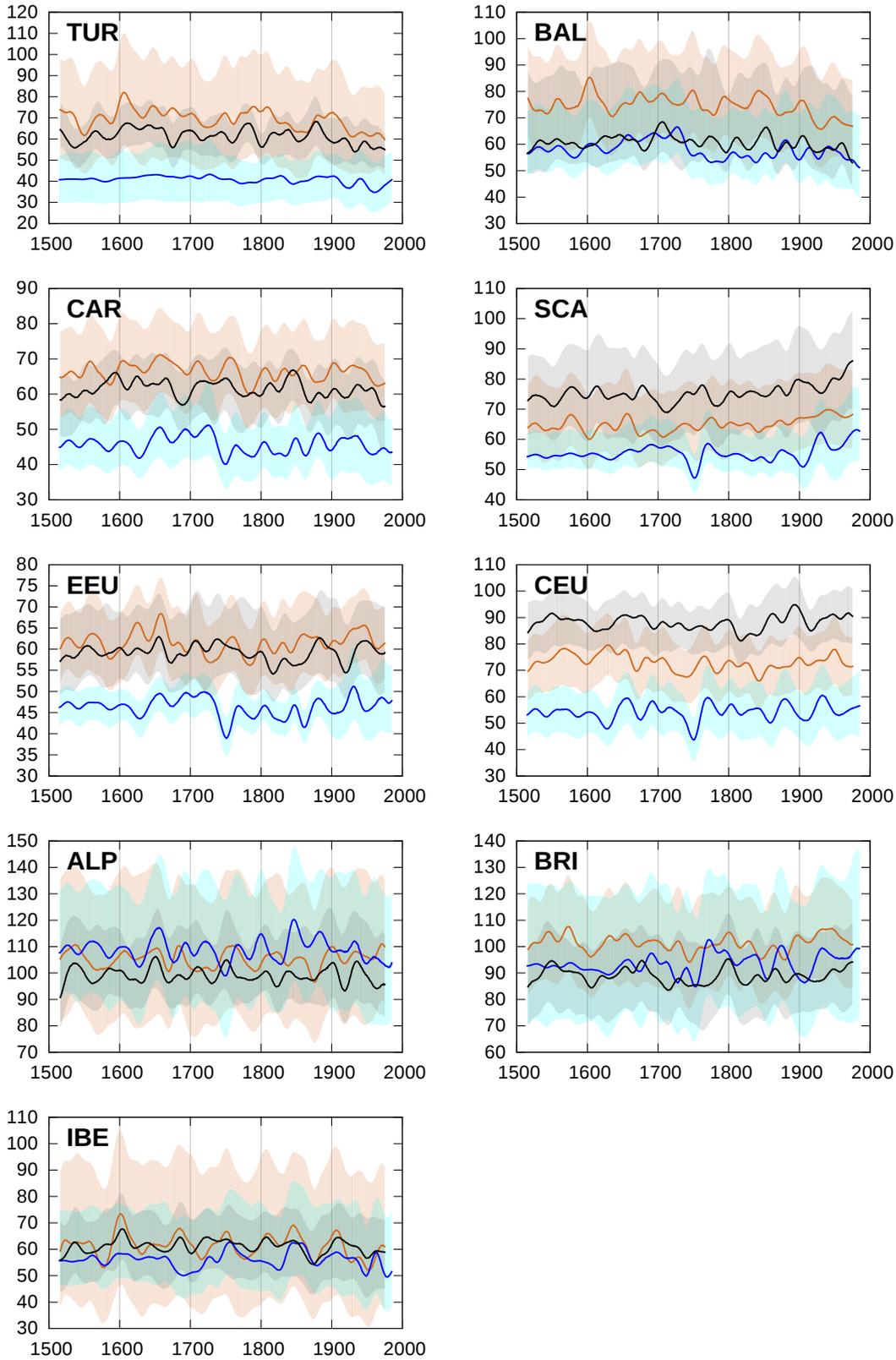


Figure S14: Temporal series of **precipitation (mm/month)** in each of the nine areas in Figure 1 in **autumn**. Colour indicates to which data set each corresponds: ECHO-G (black), MM5-ECHO-G (brown) and the gridded reconstructions (blue). Bold lines correspond to the median, whereas the shading indicates the 25-50 interquartile range.