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Atmospheric rivers moisture sources from a Lagrangian perspective

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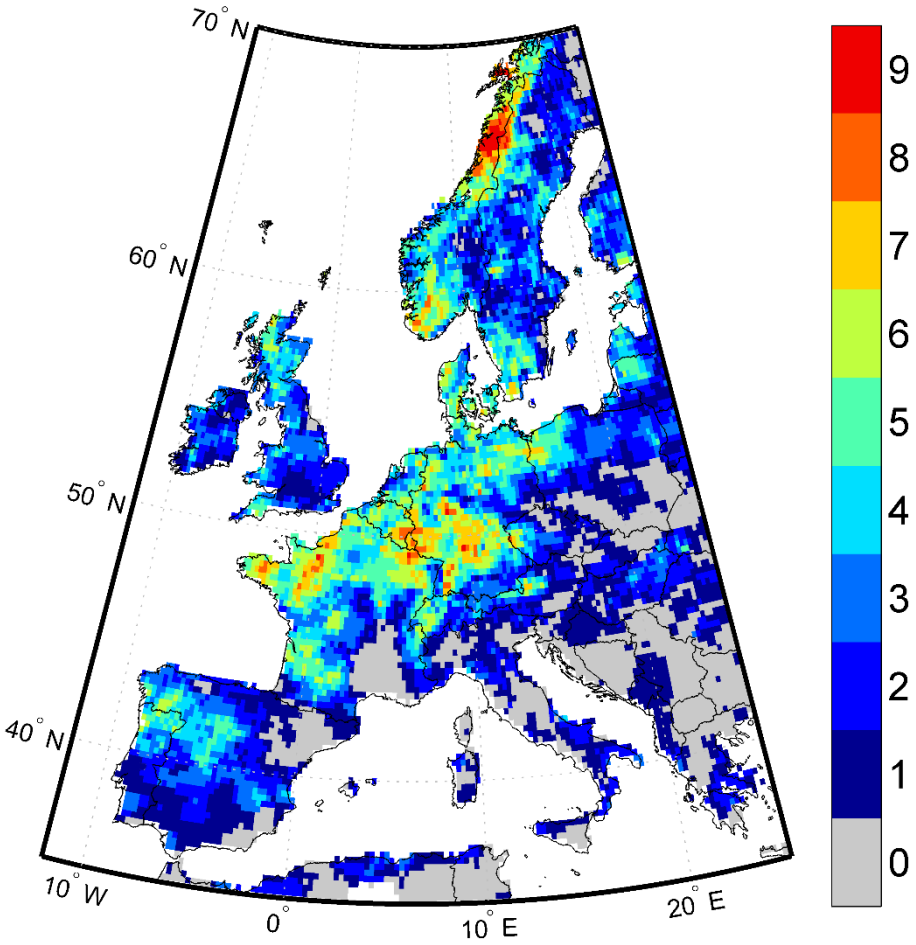
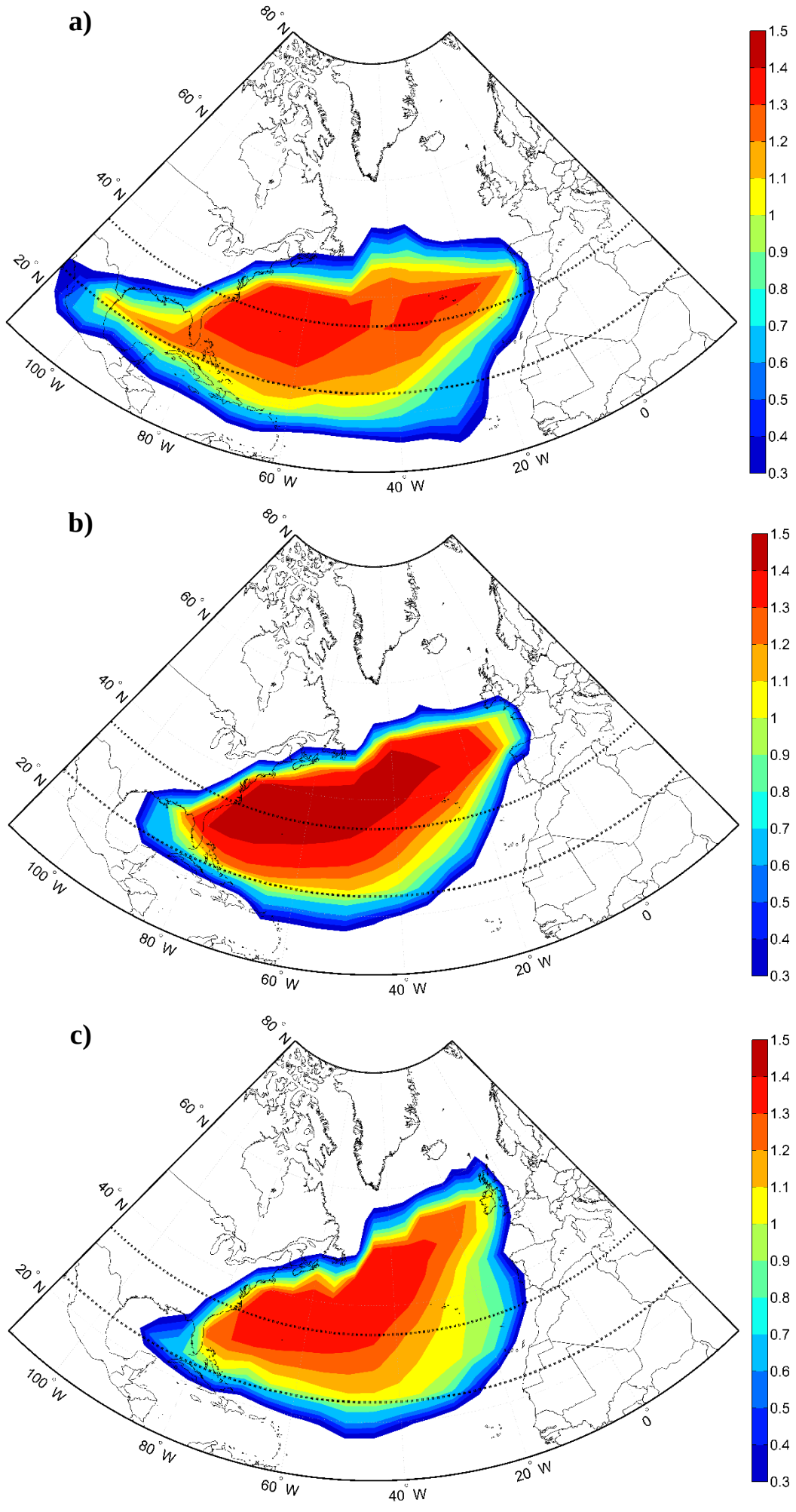


Figure S1. The number of Top 10 annual maxima precipitation events (for the extended winter months) related to Atmospheric Rivers.


a)
b)
c)
80° N
60° N
40° N
20° N
100° W
80° W
60° W
40° W
20° W
0
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3

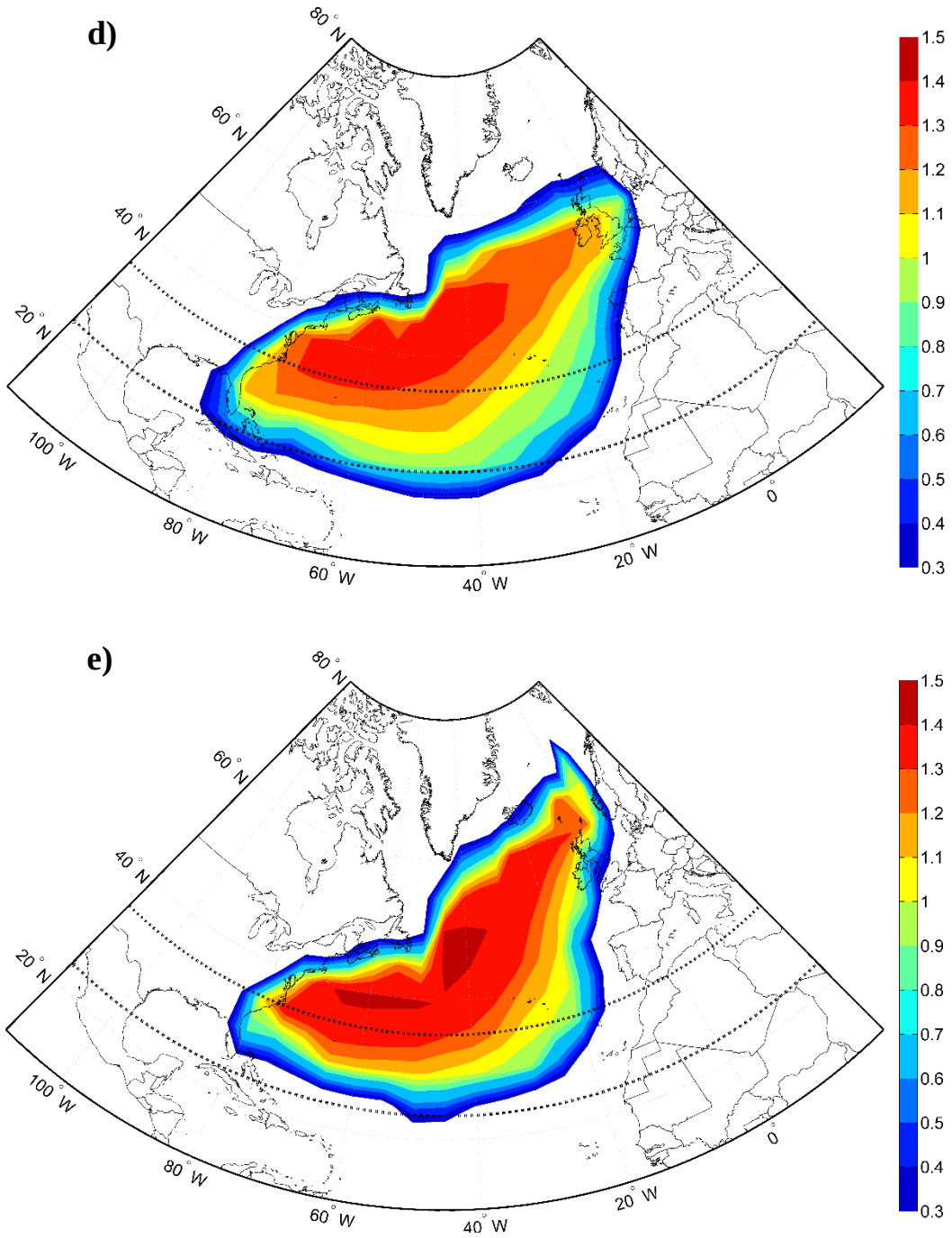


Figure S2. Track density (%) of the air parcels used to compute the anomalous moisture uptake (at a 5º by 5º grid cell) for a) Iberian Peninsula, b) France, c) UK, d) South Scandinavia and the Netherlands, and e) North Scandinavia.

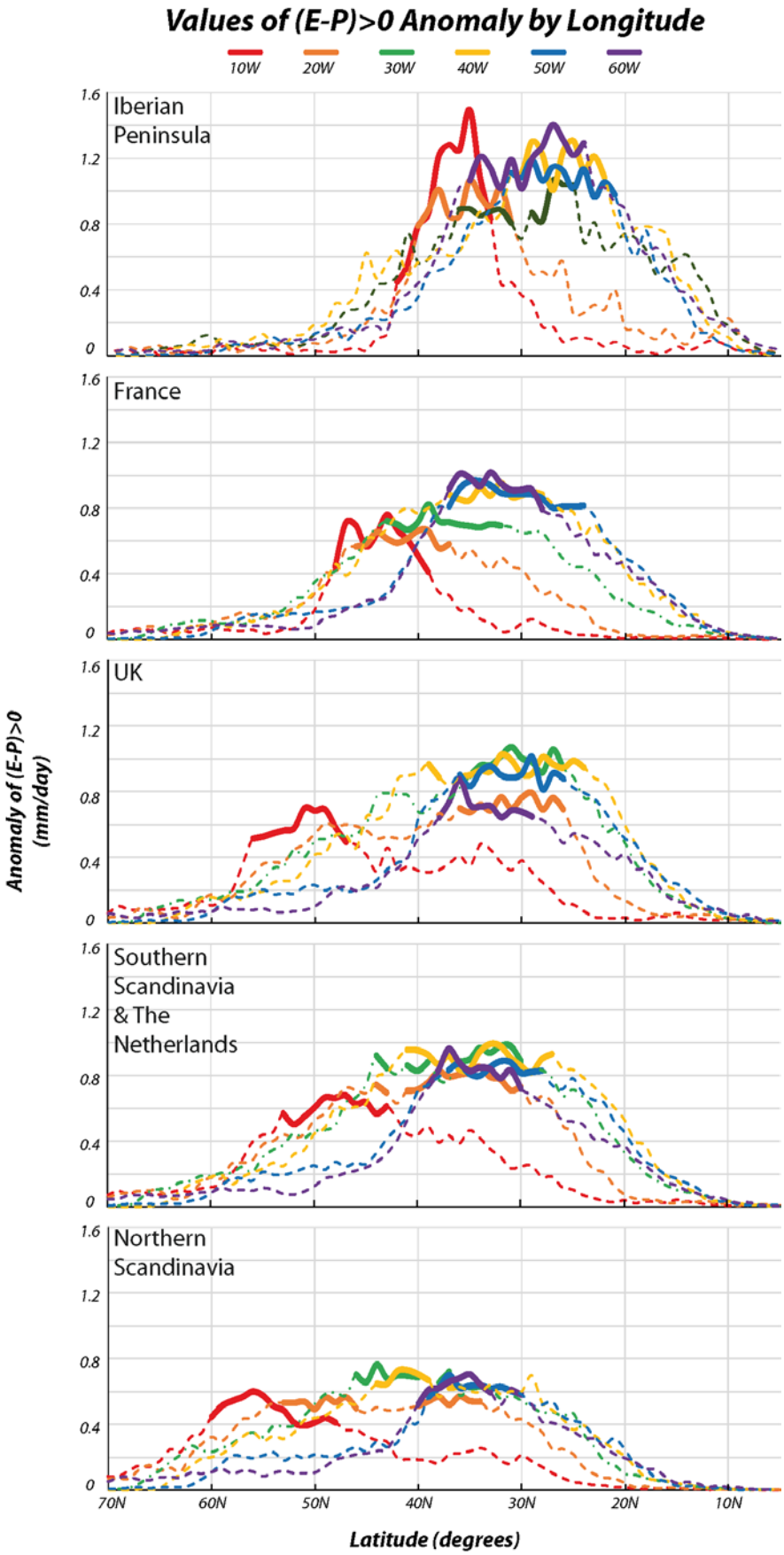


Figure S3. Longitudinal cross section of the anomaly values of (E-P) > 0 field [(E-P)An] for each studied domain every 10 degrees: 10°W (red line), 20°W (orange), 30°W (green), 40°W (yellow), 50°W (blue), and 60°W (purple). The bold line shows those values over the 90th percentile of each series (values shown in Table 4). Units in mm/day.