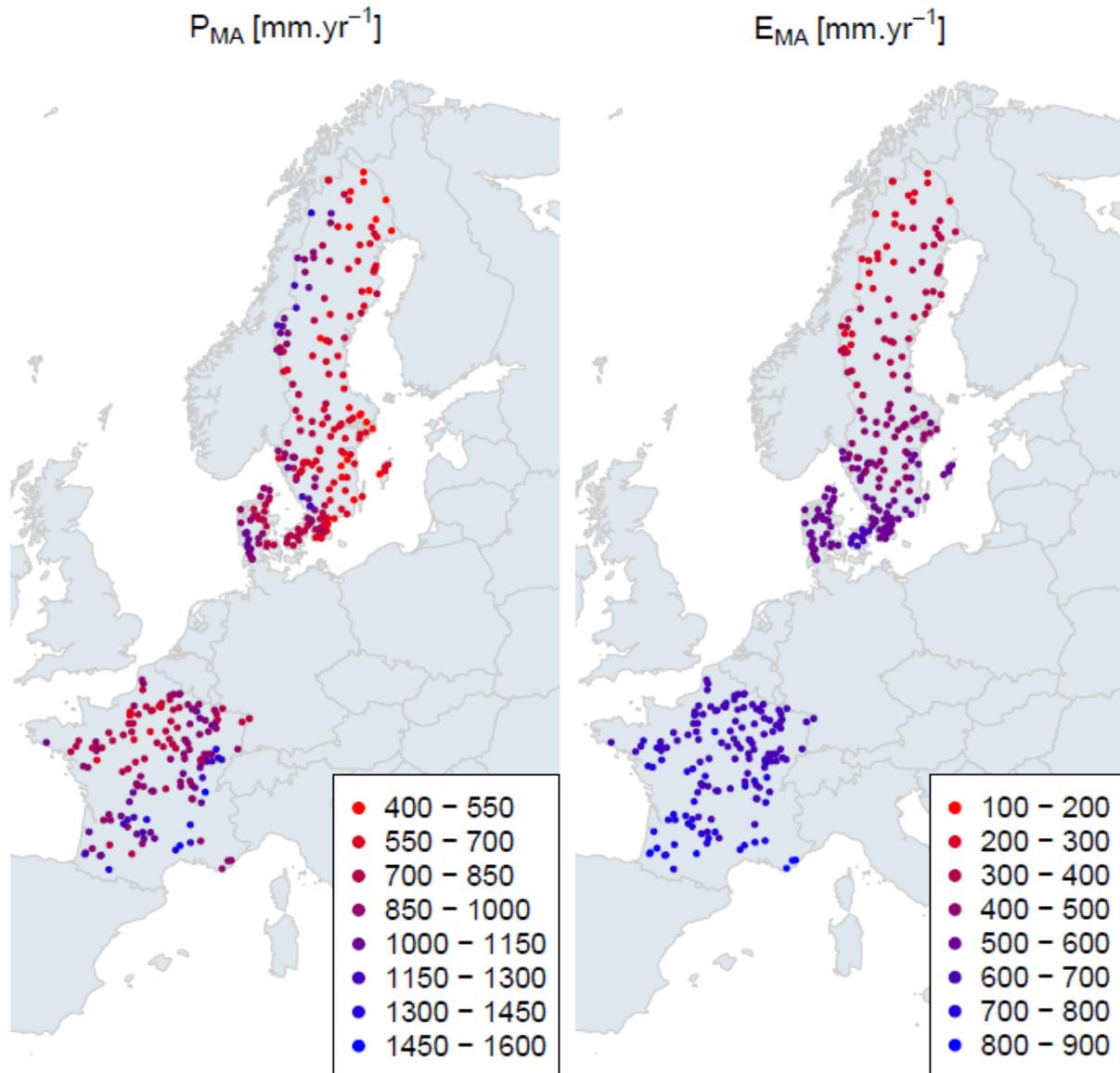


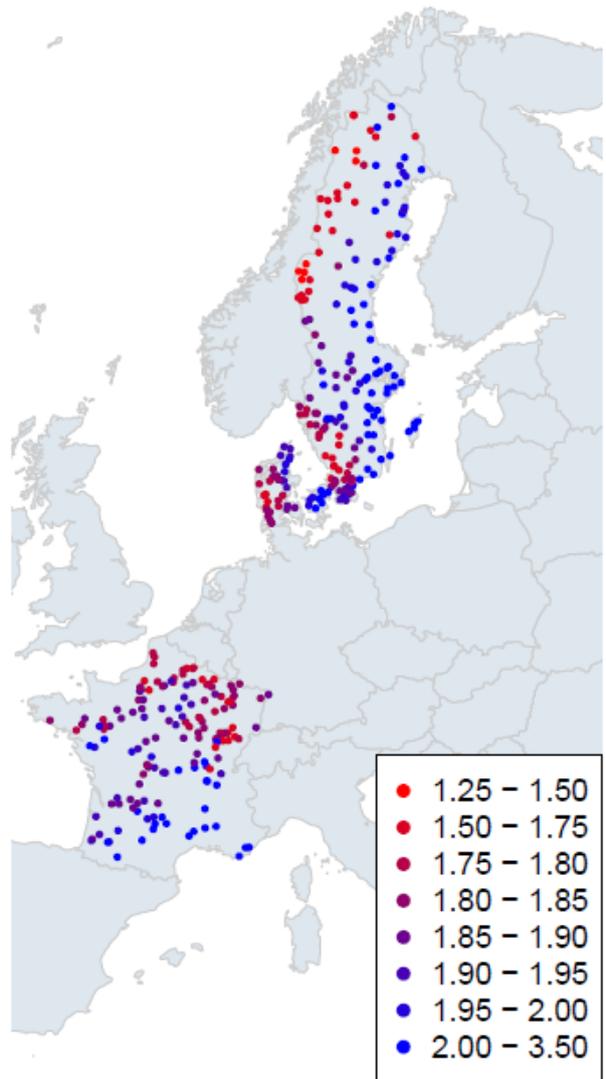
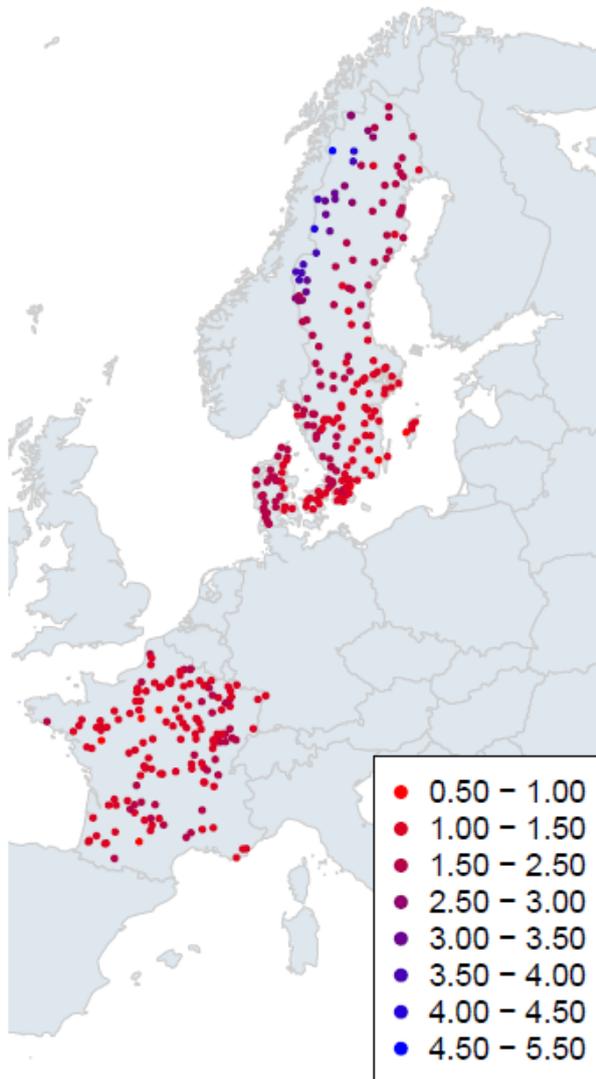
## Supplementary material 1: Geographical repartition of the climatic signatures used in the paper.

Each of the eight maps shows the repartition of a given climatic variable (in the title of the map). PMA: Mean annual precipitation, EMA: Mean annual evaporation, HUM: Humidity Index, PCV: Precipitation variability, Pint: Precipitation intensity index, DWoP: Days without precipitation ratio, Seaso: Seasonality index, SnFrac: Snow Fraction.

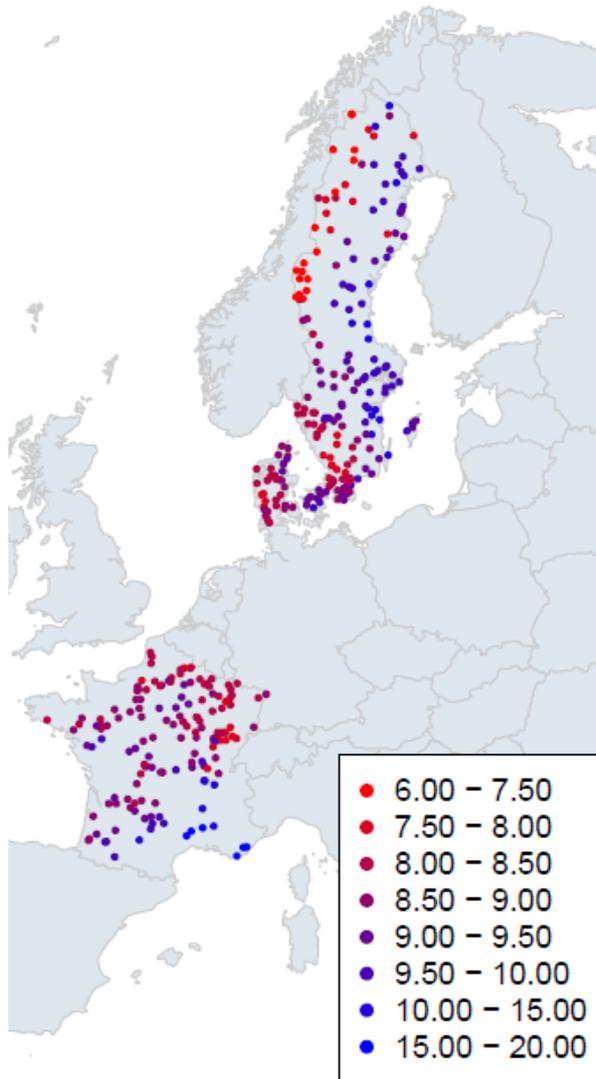


$I_{HUM} [-]$

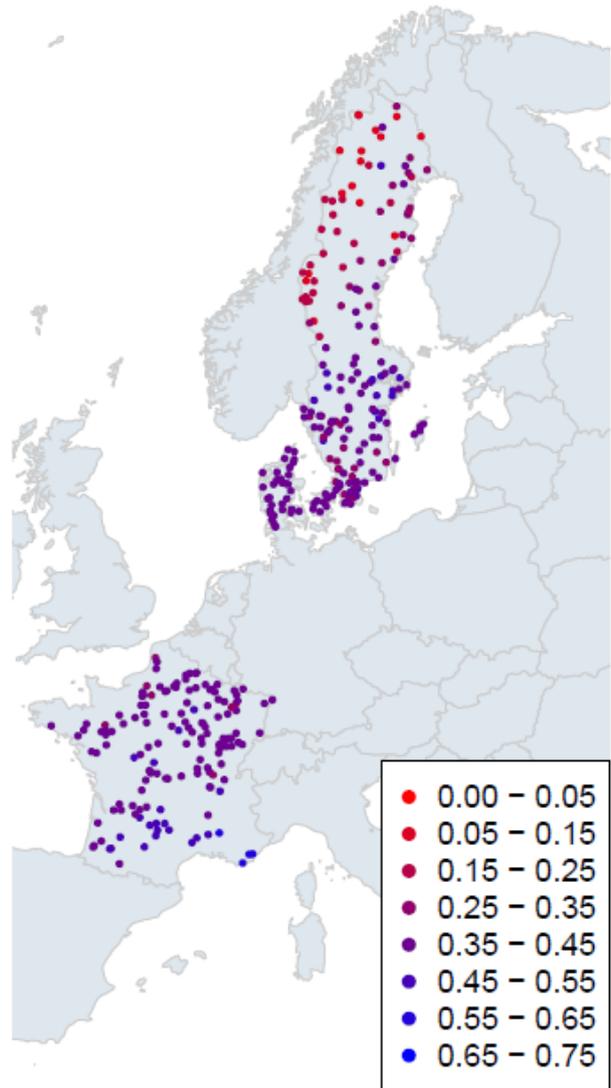
$P_{CV} [mm.d^{-1}]$



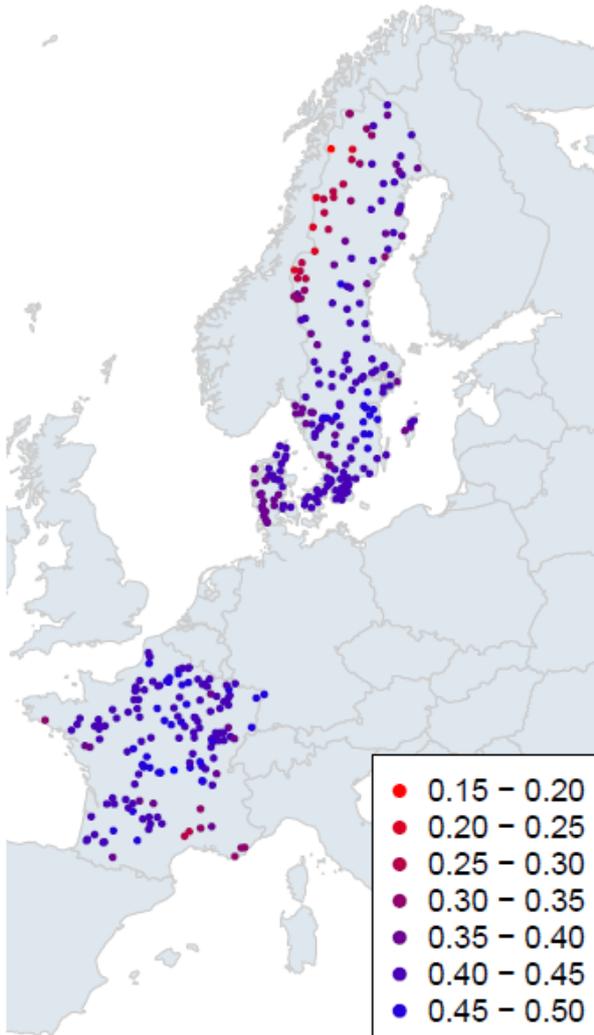
$P_{int} [-]$



$D_{WoP} [-]$

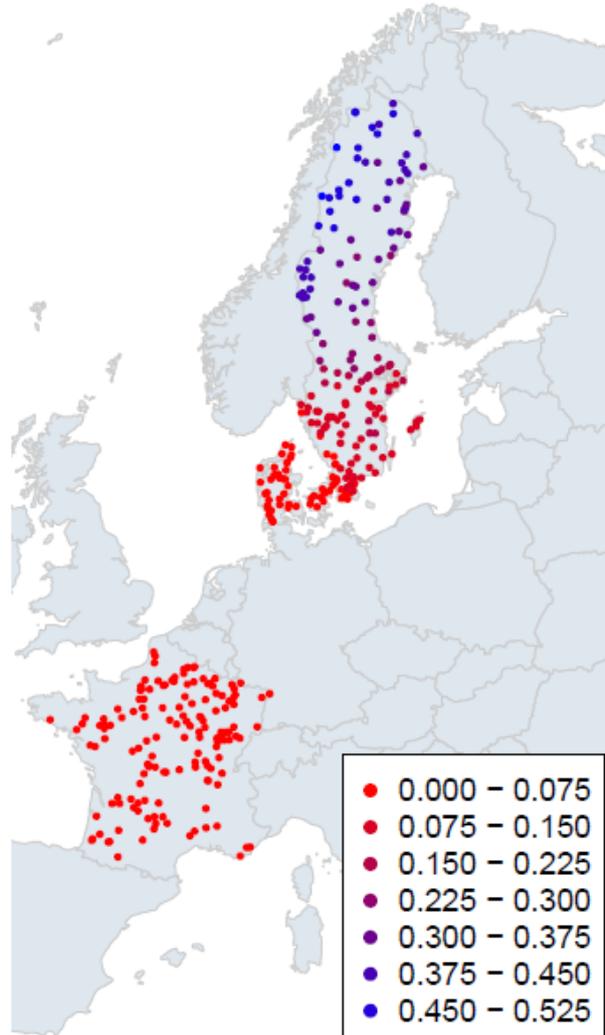


$I_{\text{Seaso}} [-]$



- 0.15 - 0.20
- 0.20 - 0.25
- 0.25 - 0.30
- 0.30 - 0.35
- 0.35 - 0.40
- 0.40 - 0.45
- 0.45 - 0.50
- 0.50 - 0.55

$S_{\text{Frac}} [-]$



- 0.000 - 0.075
- 0.075 - 0.150
- 0.150 - 0.225
- 0.225 - 0.300
- 0.300 - 0.375
- 0.375 - 0.450
- 0.450 - 0.525
- 0.525 - 0.600