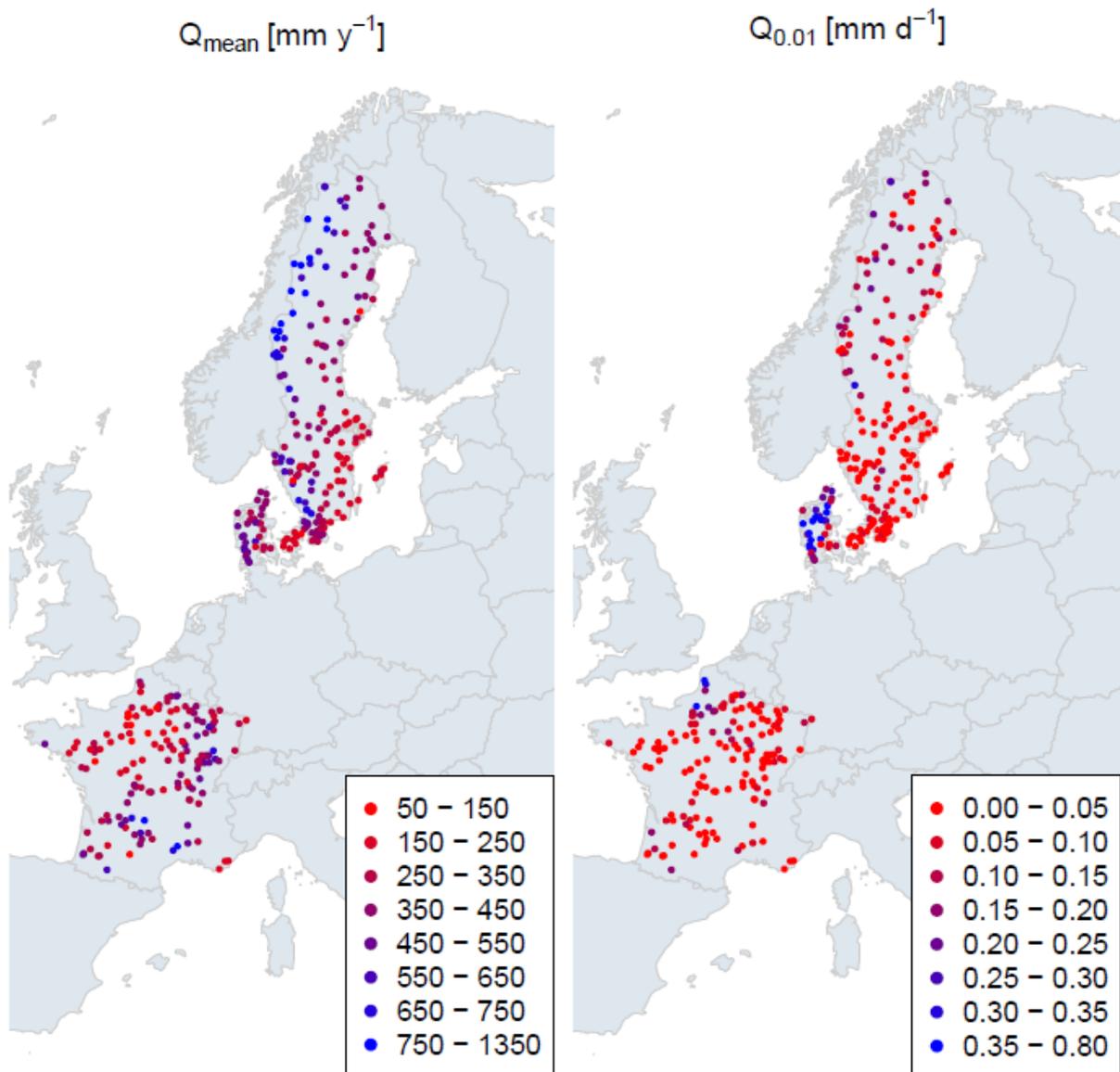
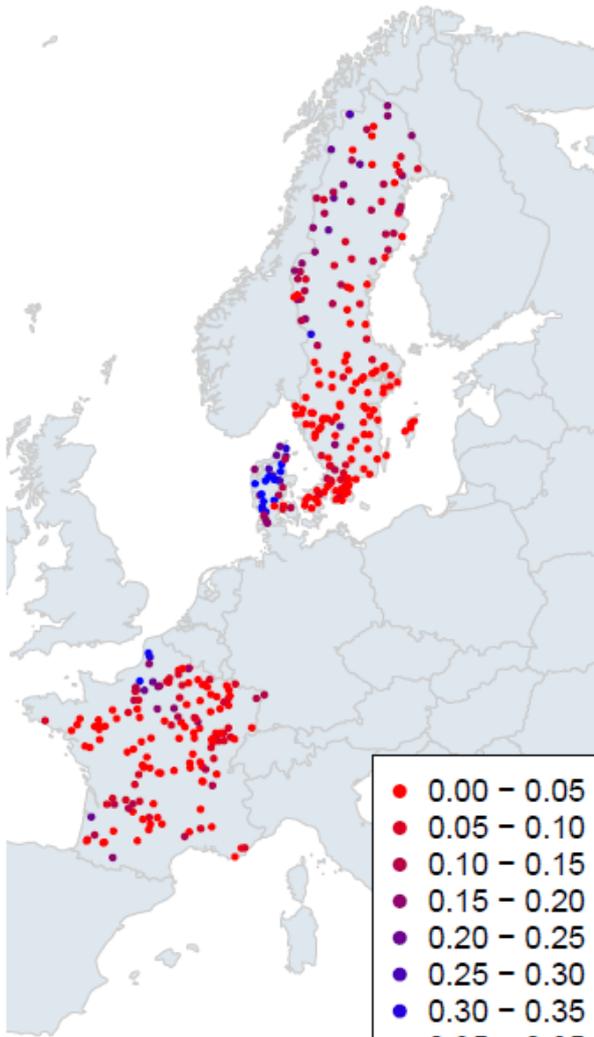


### Supplementary material 3: Geographical repartition of the streamflow signatures used in the paper.

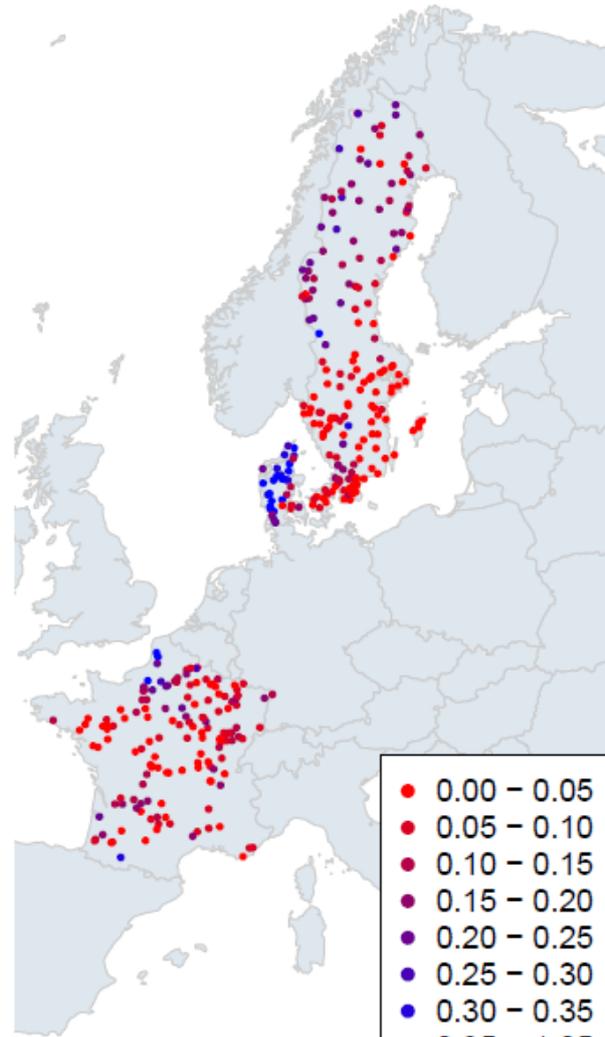
Each of the twenty maps shows the repartition of a given streamflow variable (in the title of the map).  $Q_{\text{mean}}$ : Annual mean flow,  $Q_{[0.01-99]}$ : Flow percentiles,  $Q_{[\text{hf-lf}] \text{freq}}$ : Frequency of [high-low]flow events,  $Q_{[\text{hf-lf}] \text{dur}}$ : Duration of high-low flow events, BFI: Baseflow index, SFDC: Slope of the flow duration curve,  $Q_{[\text{C-L-H}] \text{V}}$ : [Total-Low-High]flow variability, QAC: Flow one day autocorrelation, RR: Runoff ratio.



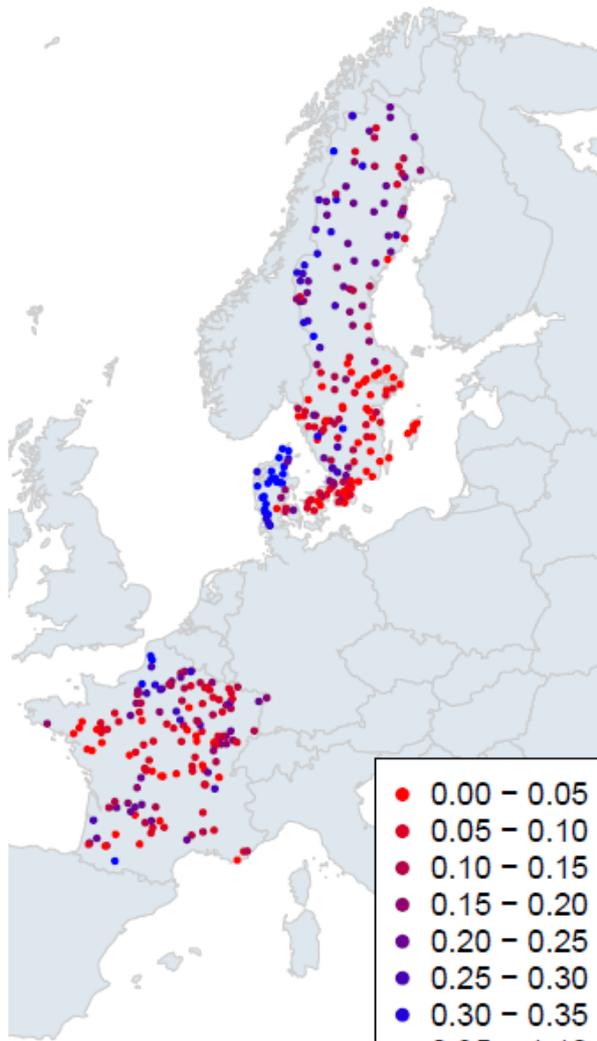
$Q_{0.1}$  [ $\text{mm d}^{-1}$ ]



$Q_1$  [ $\text{mm d}^{-1}$ ]

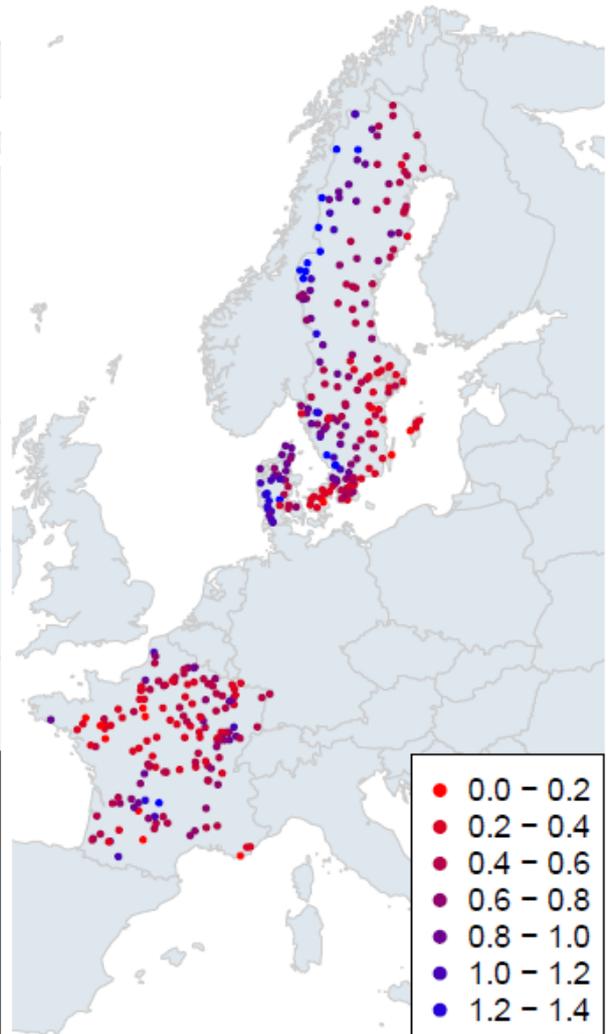


$Q_5$  [ $\text{mm d}^{-1}$ ]



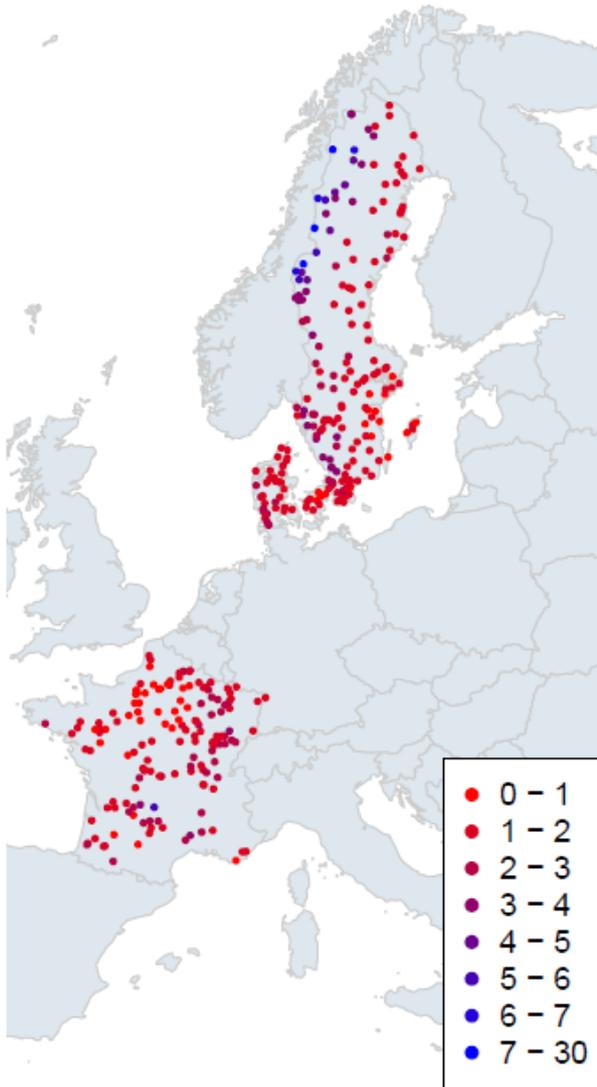
- 0.00 - 0.05
- 0.05 - 0.10
- 0.10 - 0.15
- 0.15 - 0.20
- 0.20 - 0.25
- 0.25 - 0.30
- 0.30 - 0.35
- 0.35 - 1.10

$Q_{50}$  [ $\text{mm d}^{-1}$ ]

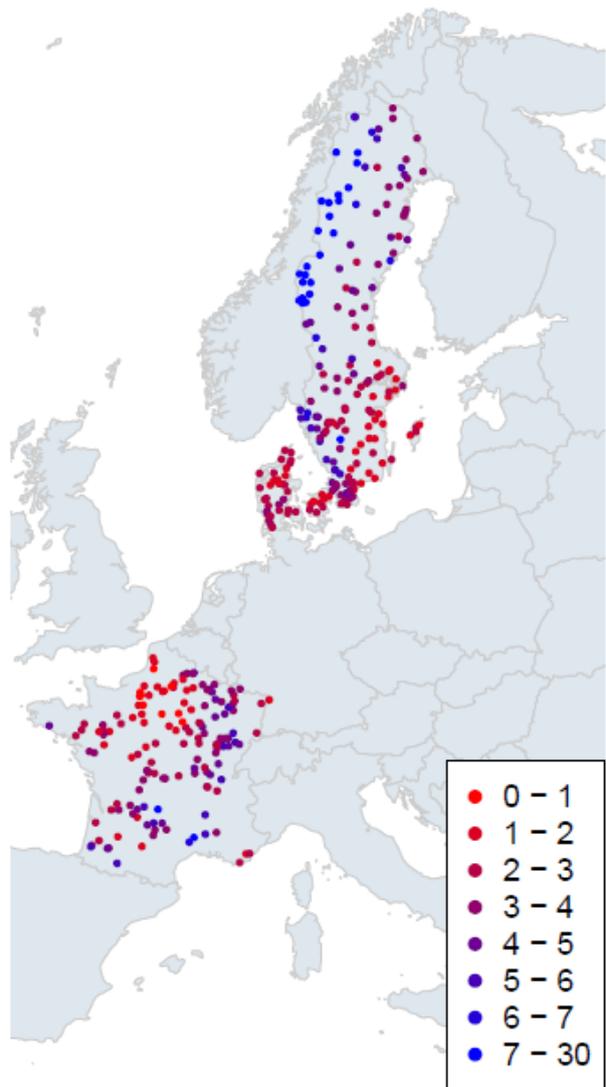


- 0.0 - 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.2
- 1.2 - 1.4
- 1.4 - 2.0

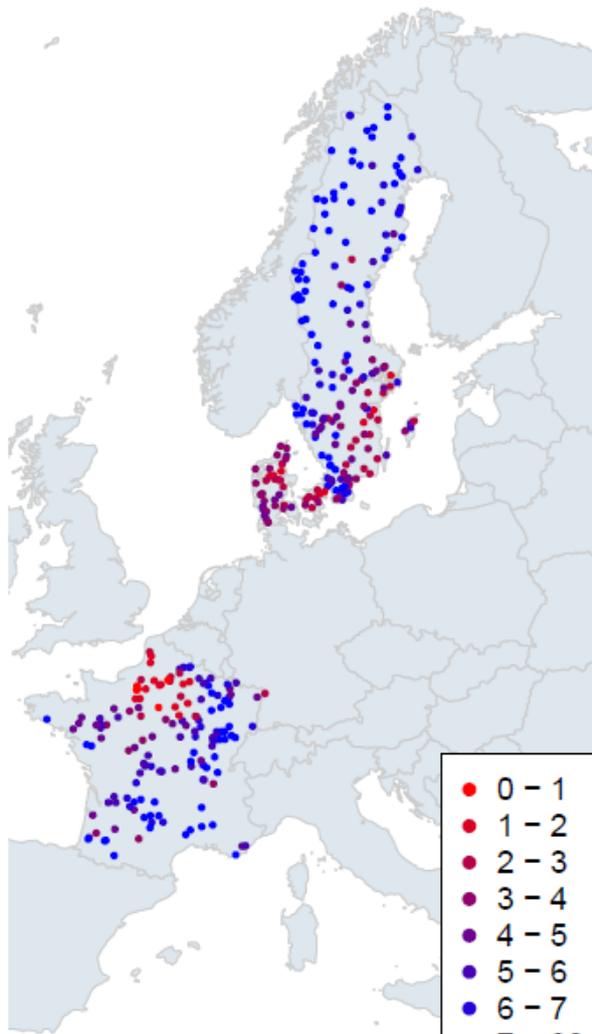
$Q_{85}$  [ $\text{mm d}^{-1}$ ]



$Q_{95}$  [ $\text{mm d}^{-1}$ ]

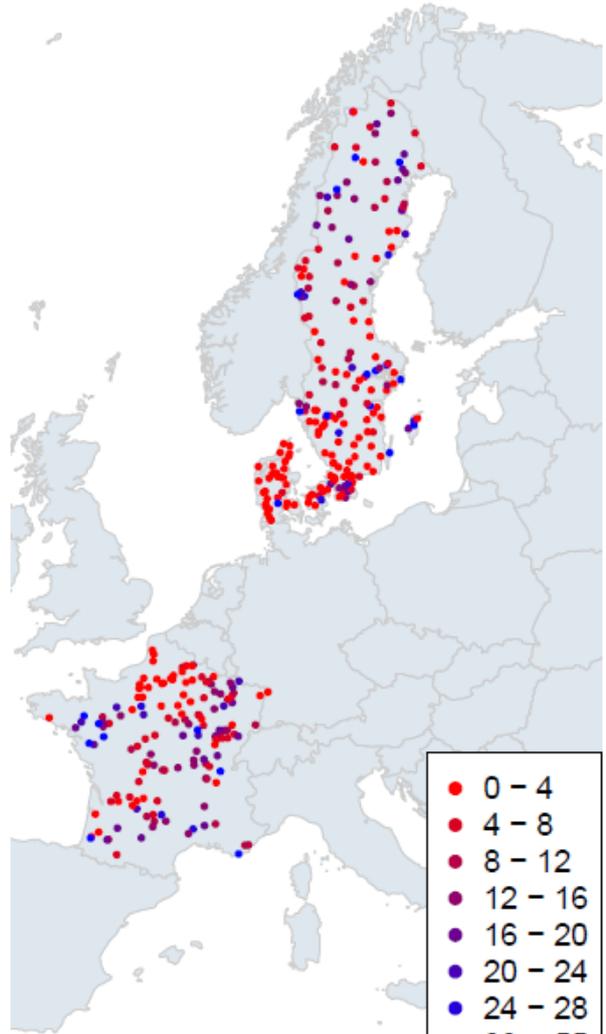


$Q_{99}$  [ $\text{mm d}^{-1}$ ]



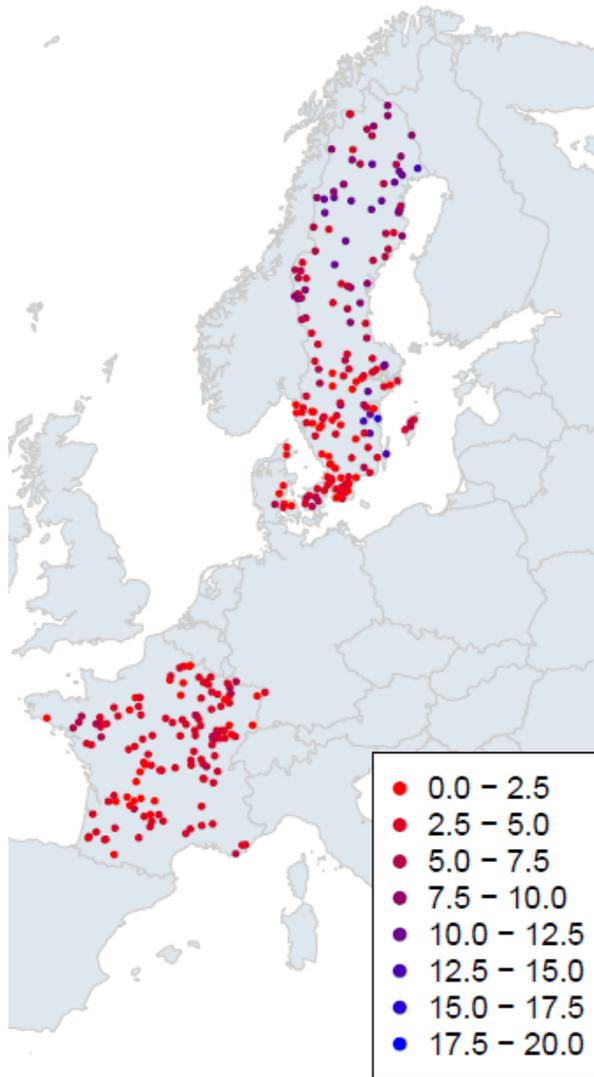
- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 5
- 5 - 6
- 6 - 7
- 7 - 30

$Q_{\text{hffreq}}$  [ $\text{d y}^{-1}$ ]

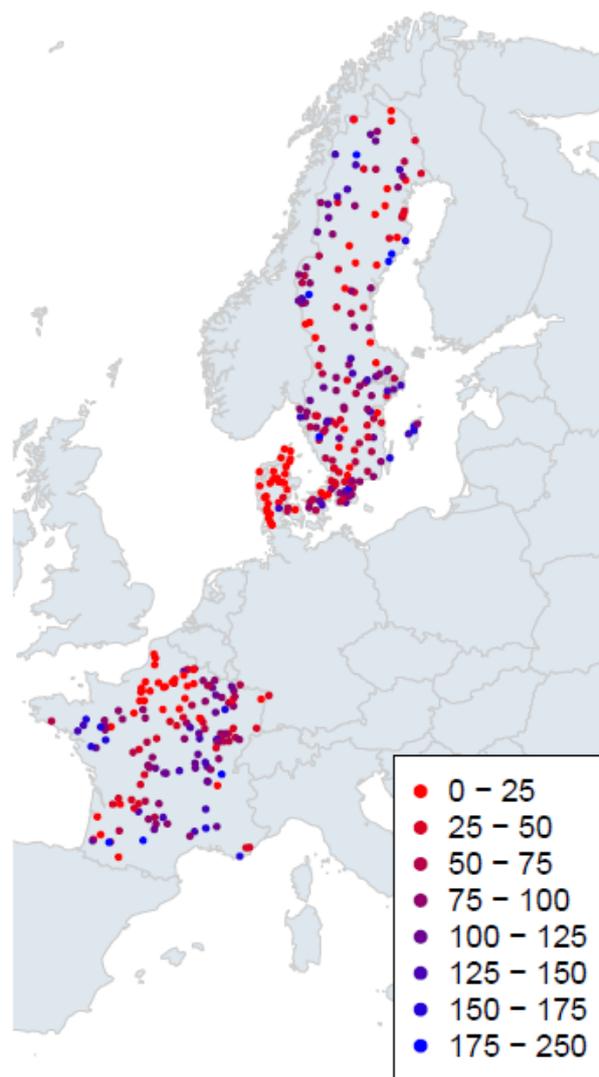


- 0 - 4
- 4 - 8
- 8 - 12
- 12 - 16
- 16 - 20
- 20 - 24
- 24 - 28
- 28 - 55

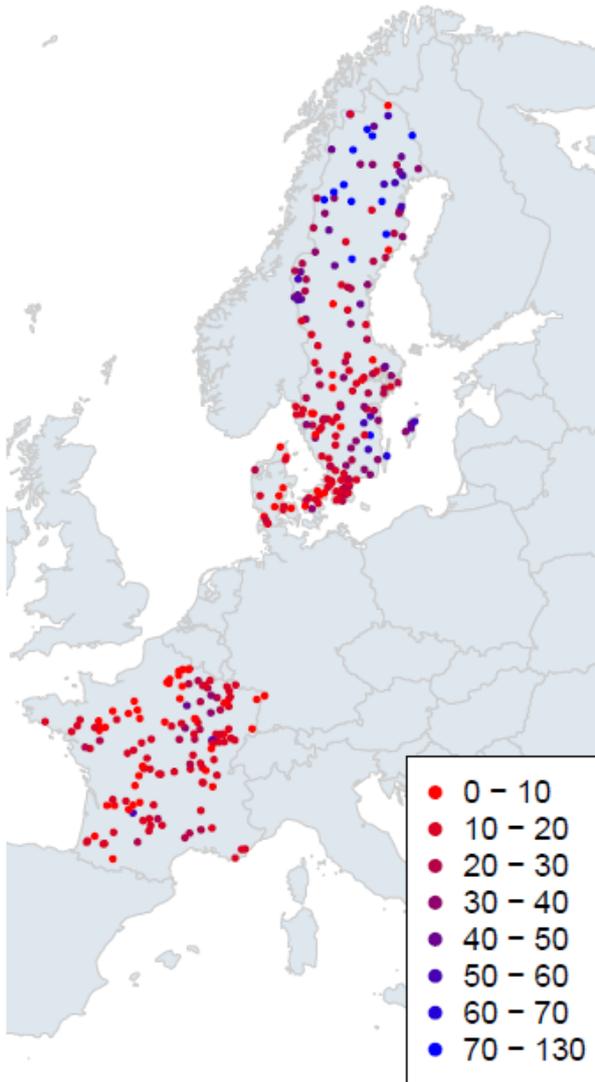
$Q_{\text{hfdur}}$  [d]



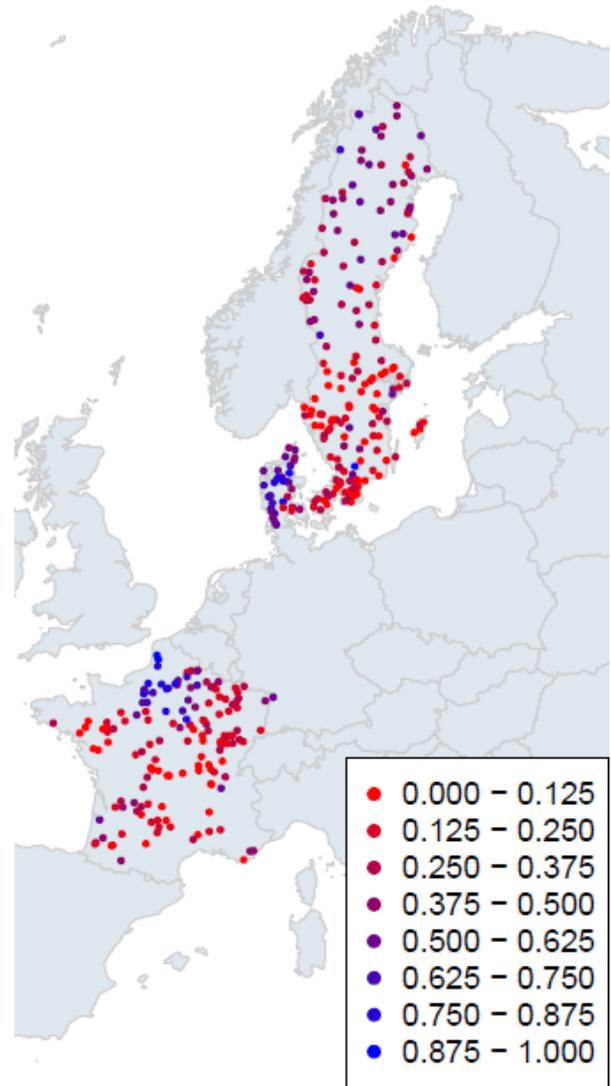
$Q_{\text{ffreq}}$  [ $\text{d y}^{-1}$ ]



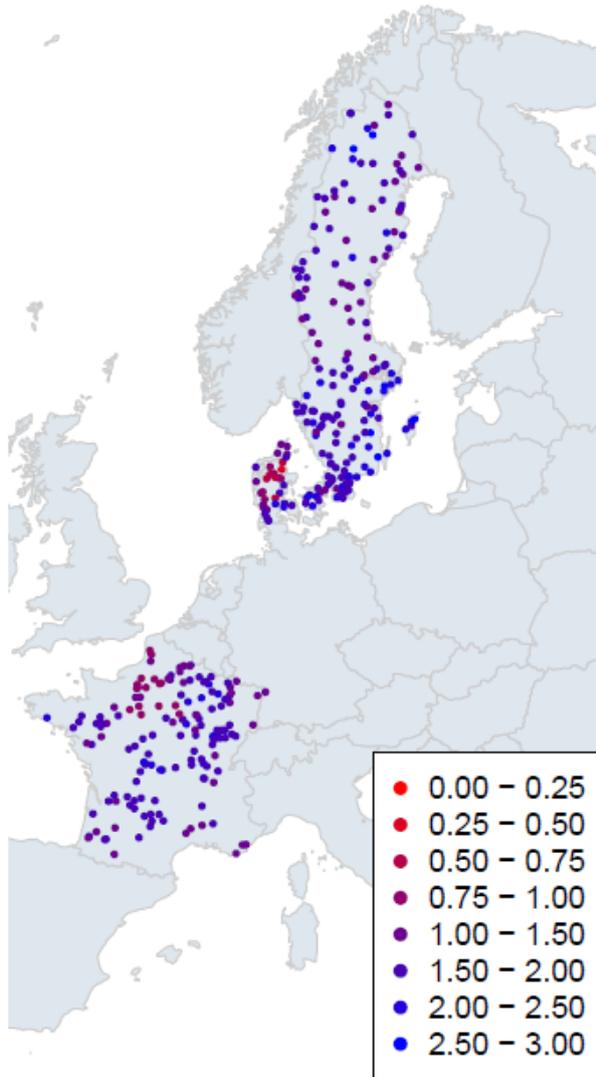
$Q_{\text{fdur}}$  [d]



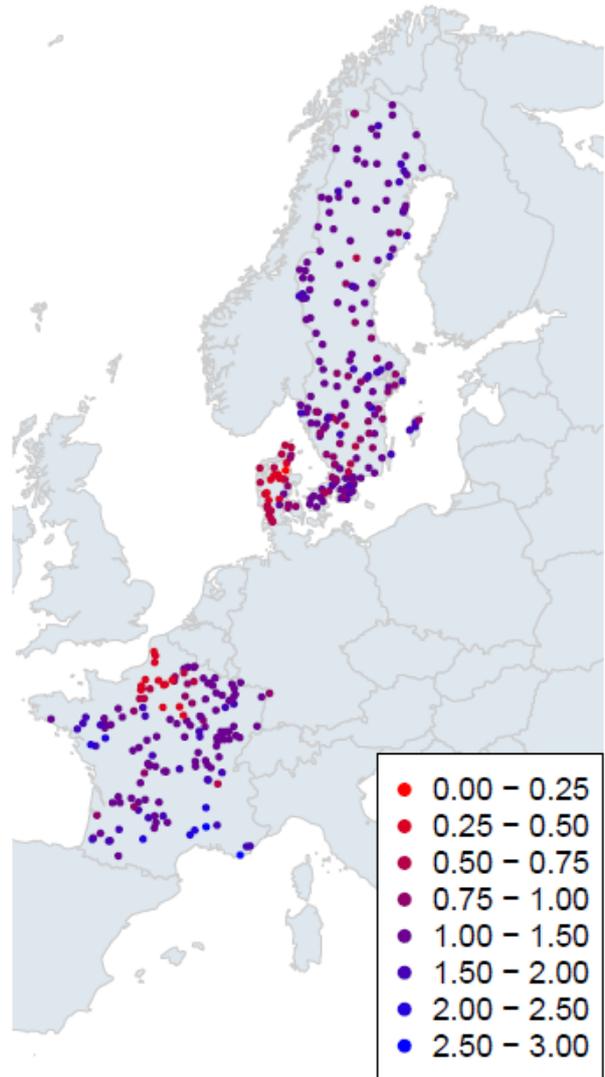
$I_{\text{BF}}$  [-]



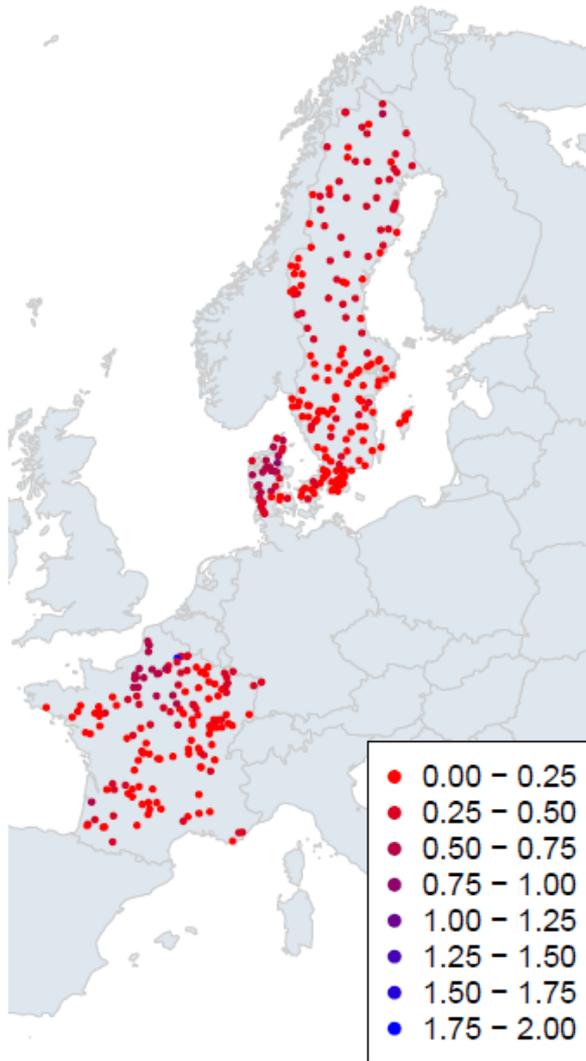
$S_{FDC}$  [-]



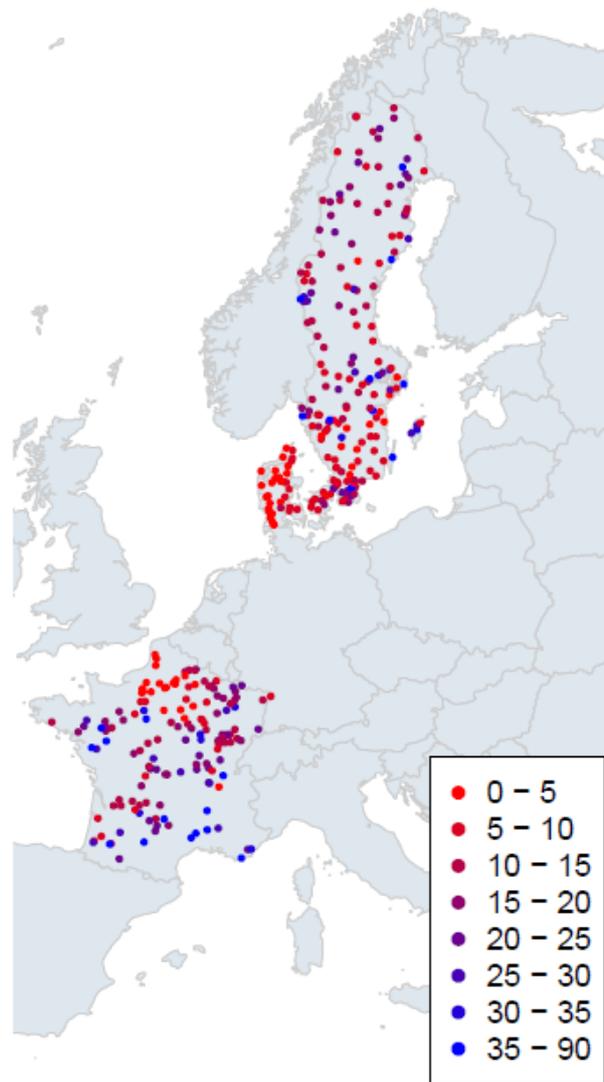
$Q_{CV}$  [-]



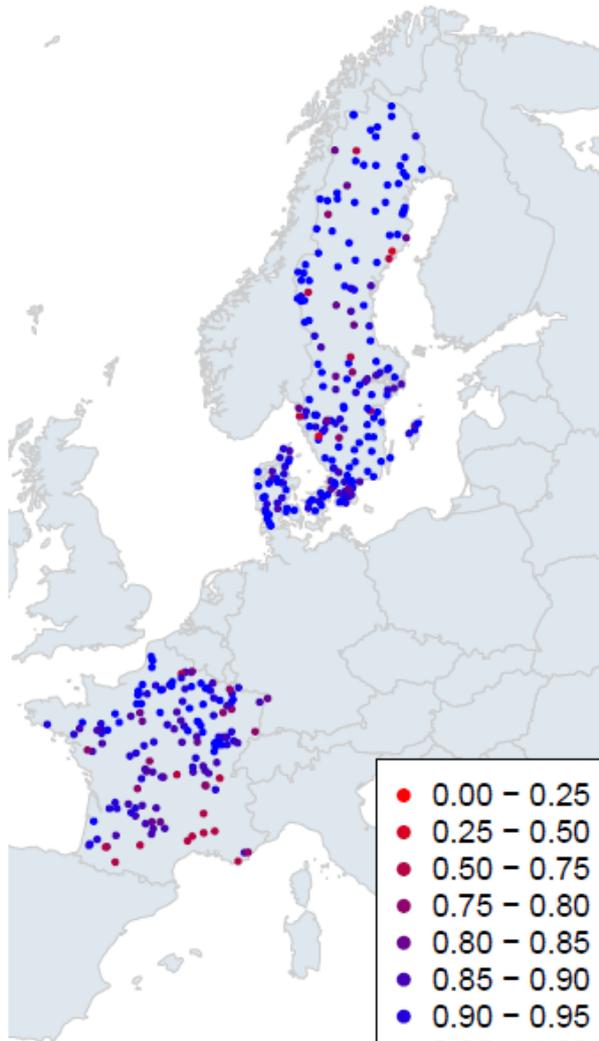
$Q_{LV} [-]$



$Q_{HV} [-]$



$Q_{AC} [-]$



$R_R [-]$

