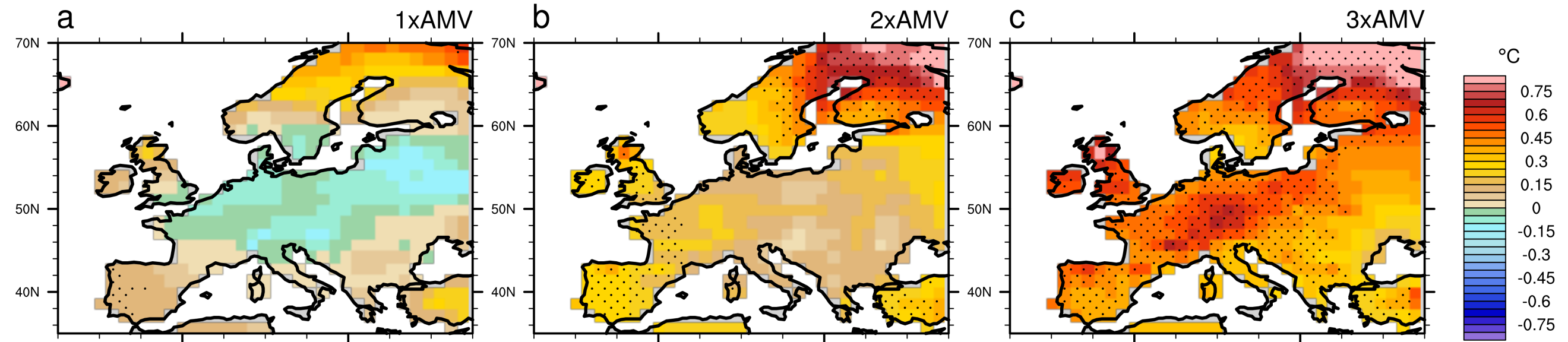


Mean temperature and precipitation response

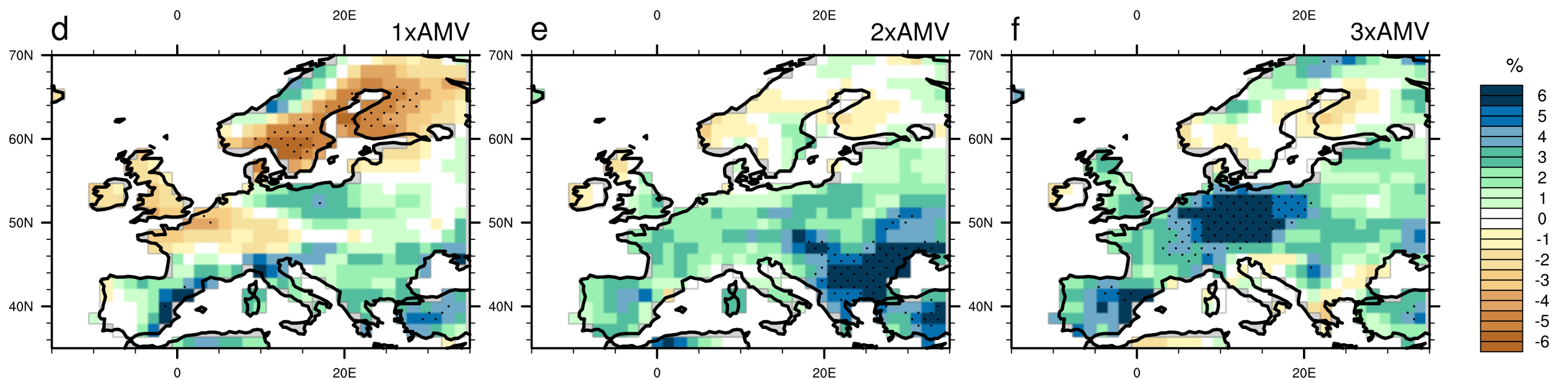
DJF

AMV+ minus AMV -

T2m



Precipitation

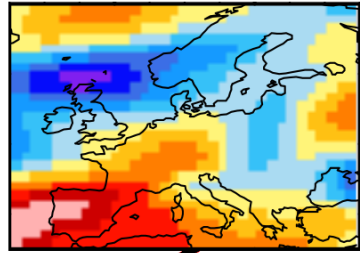


The AMV/Europe teleconnection is weak in 1xAMV but gets stronger in 2xAMV and 3xAMV

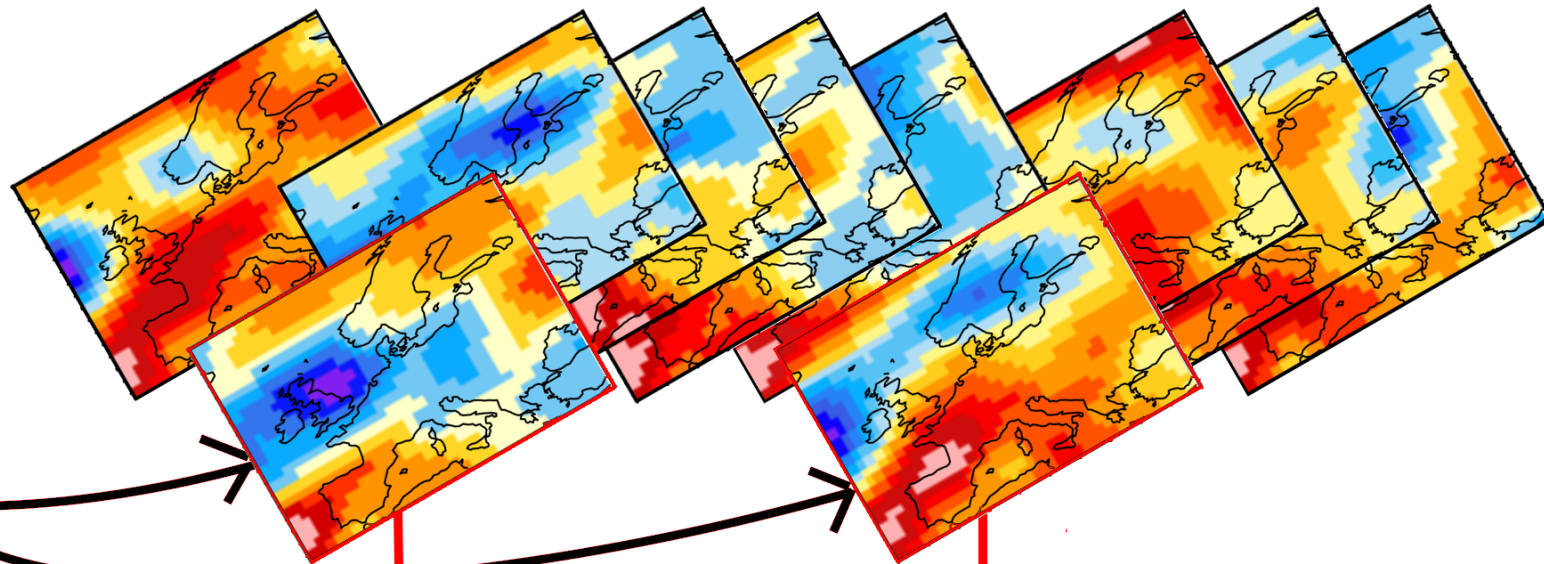
Decomposition into dynamical and thermodynamical parts

Method (comparable to Boé et al. 2009, O'Reilly et al. 2017)

SLP of a given winter day
in the AMV+ ensemble



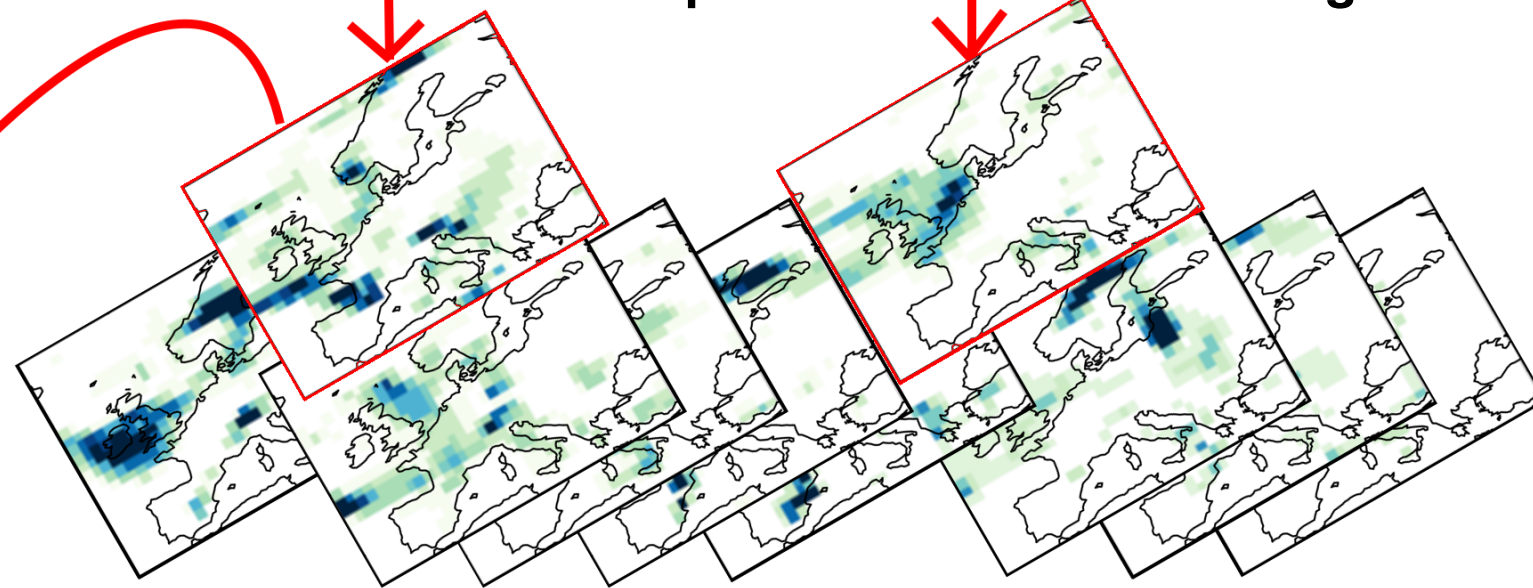
We look for analogs in SLP in the AMV- ensemble



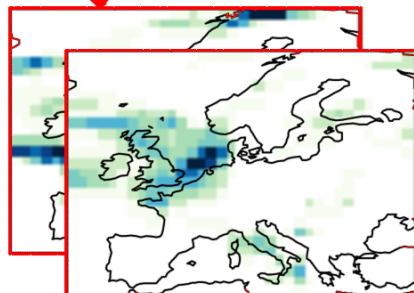
Analog criterion
Euclidean distance

Precipitation for these N analog dates

We average over
the N analogs



'SLP-driven' precipitation:



We do the same
for temperature

--> Dynamical component of precipitation

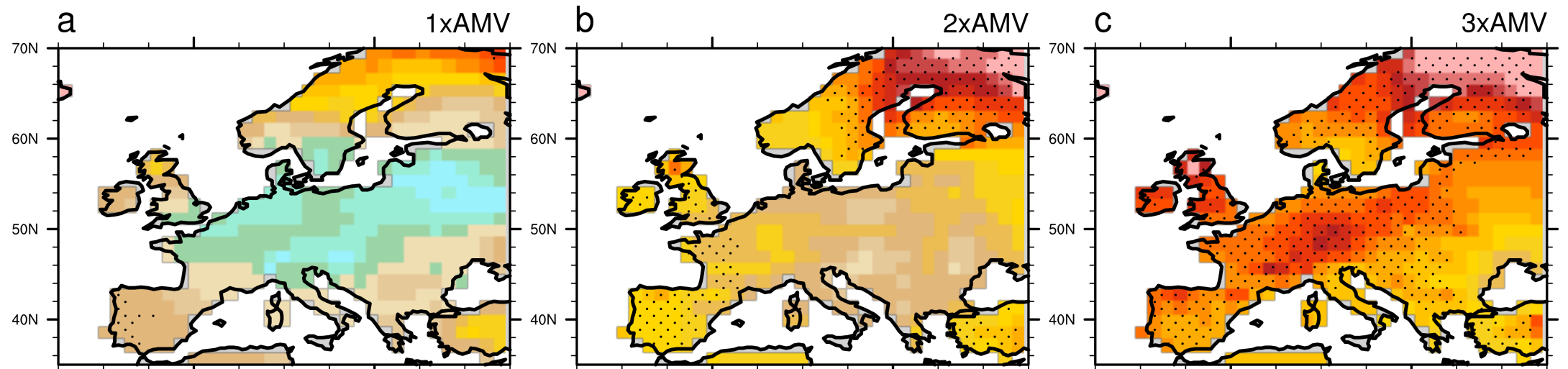
The residual = thermodynamical component

Decomposition into dynamical and thermodynamical parts

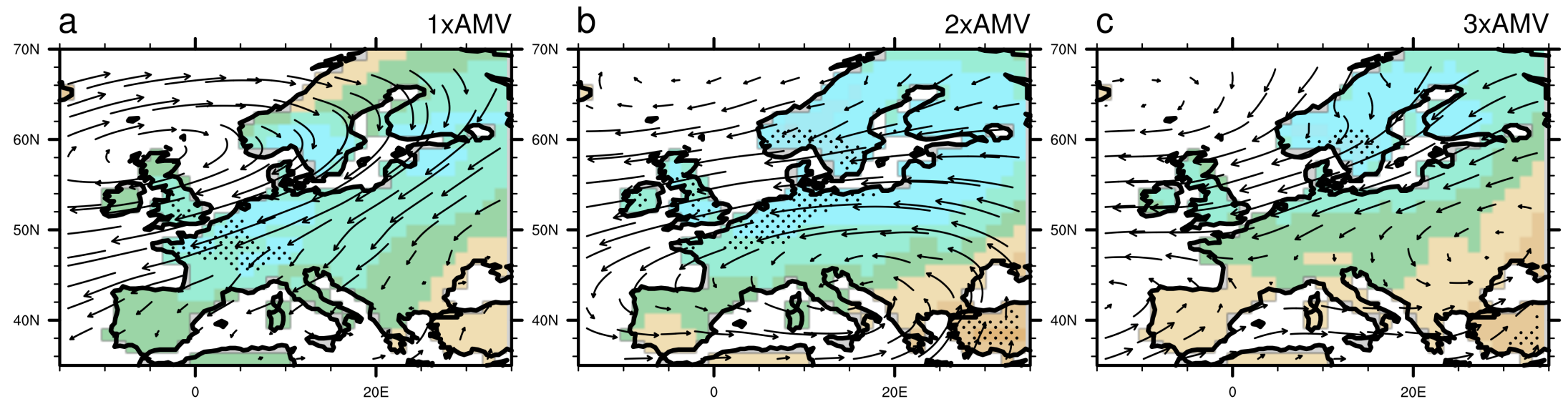
DJF T2m

AMV+ minus AMV -

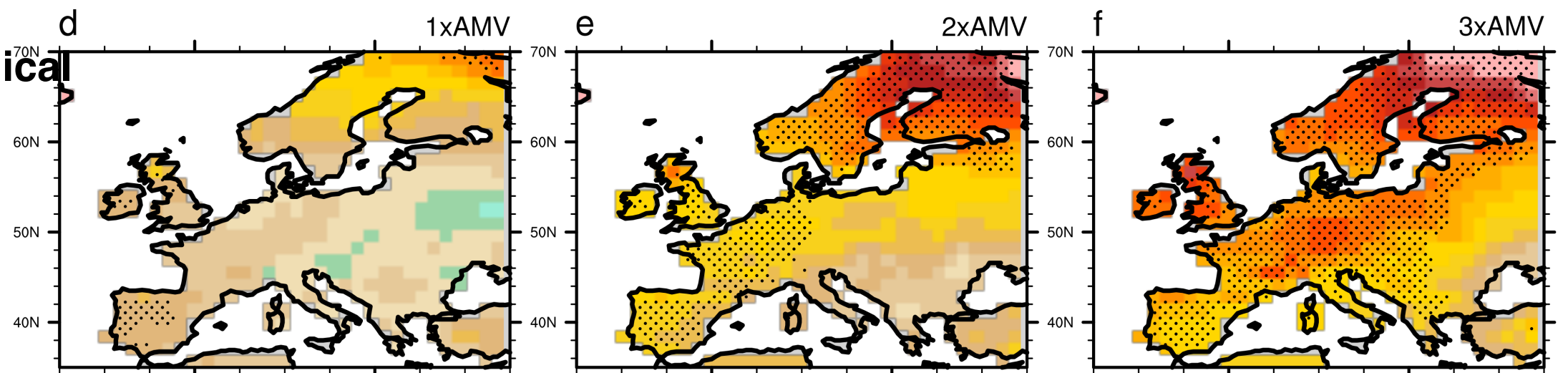
Total
response



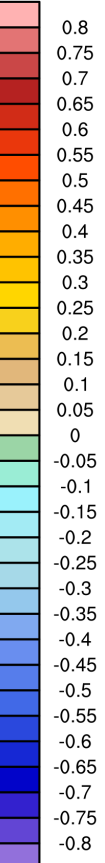
Dynamical
part



Thermodynamical
part



°C



Decomposition into dynamical and thermodynamical parts

DJF precipitation

AMV+ minus AMV -

