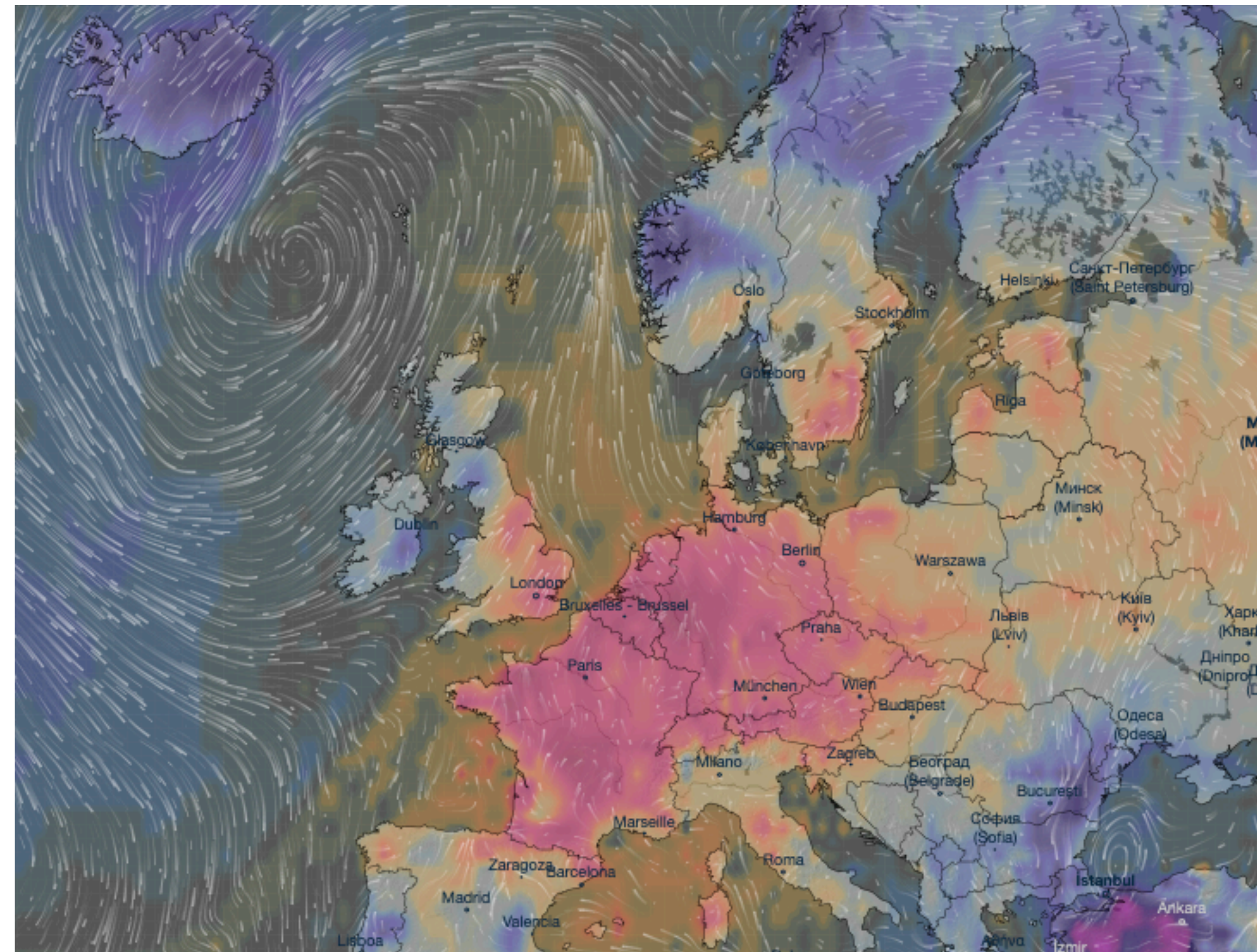


The relation between European heat waves and North Atlantic SSTs: a composite study



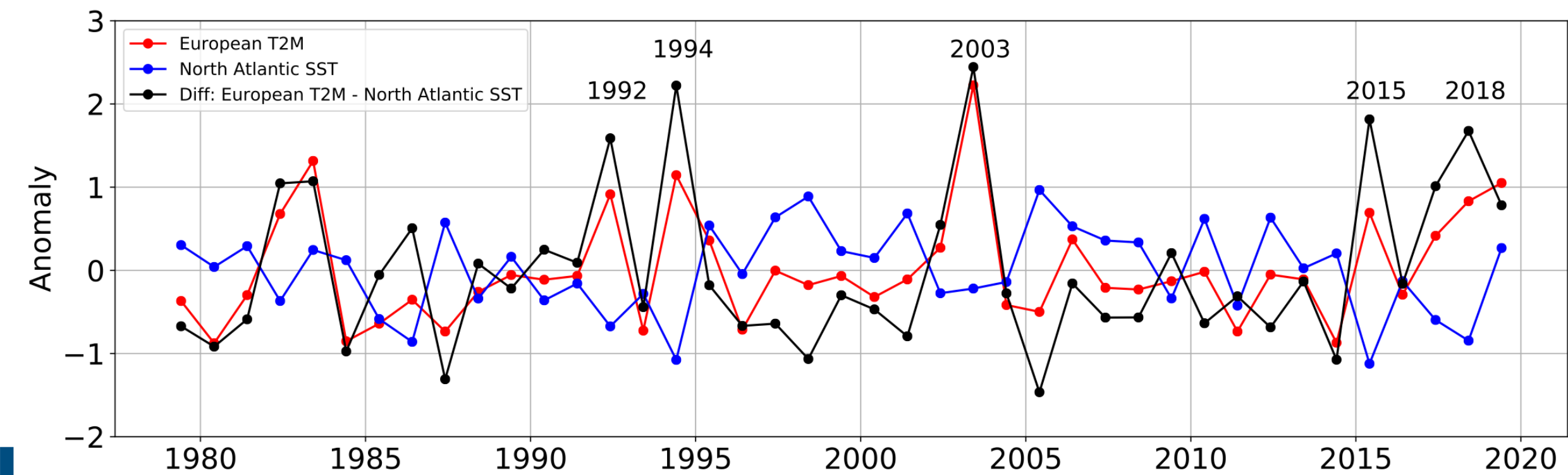
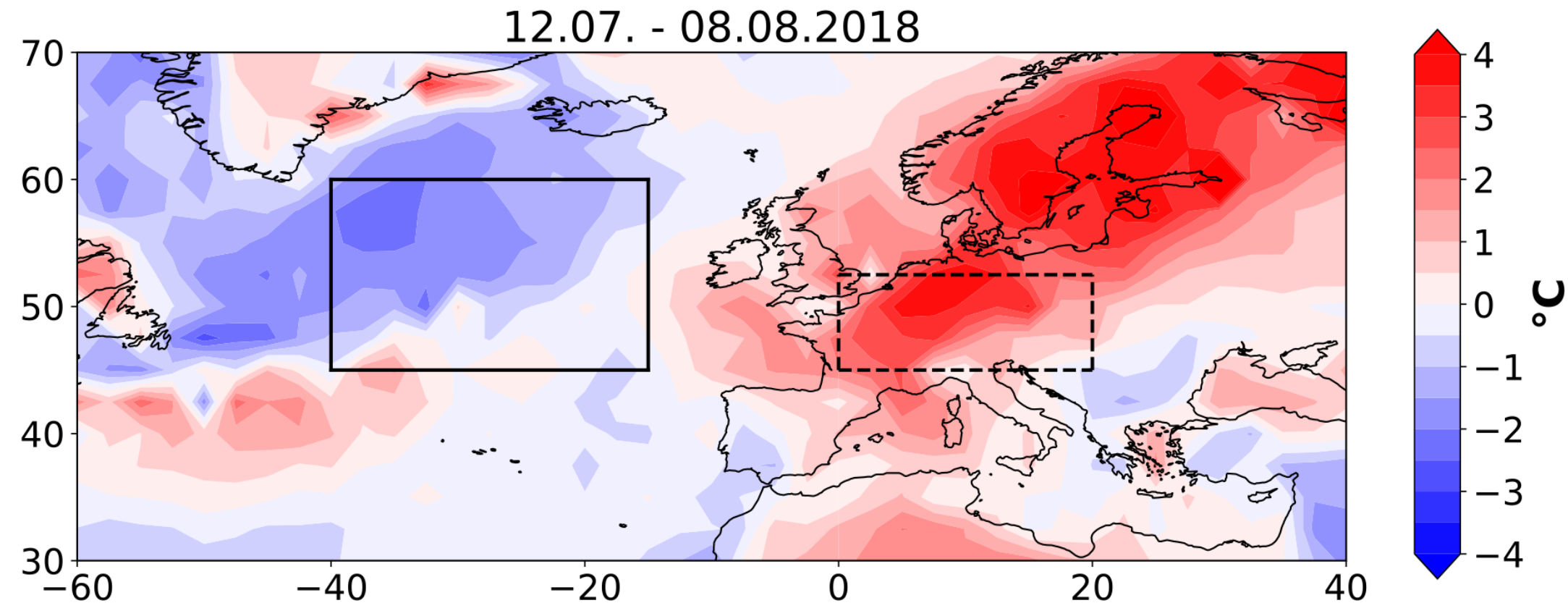
<https://www.ventusky.com/>

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The relation between European heat waves and North Atlantic SSTs: a composite study

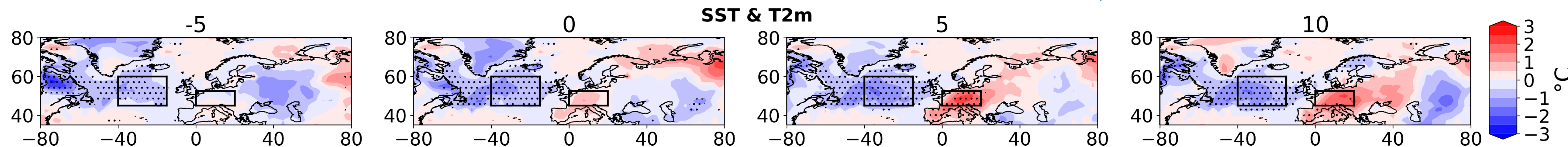


Composite analysis of cold North Atlantic SST events (Daily)

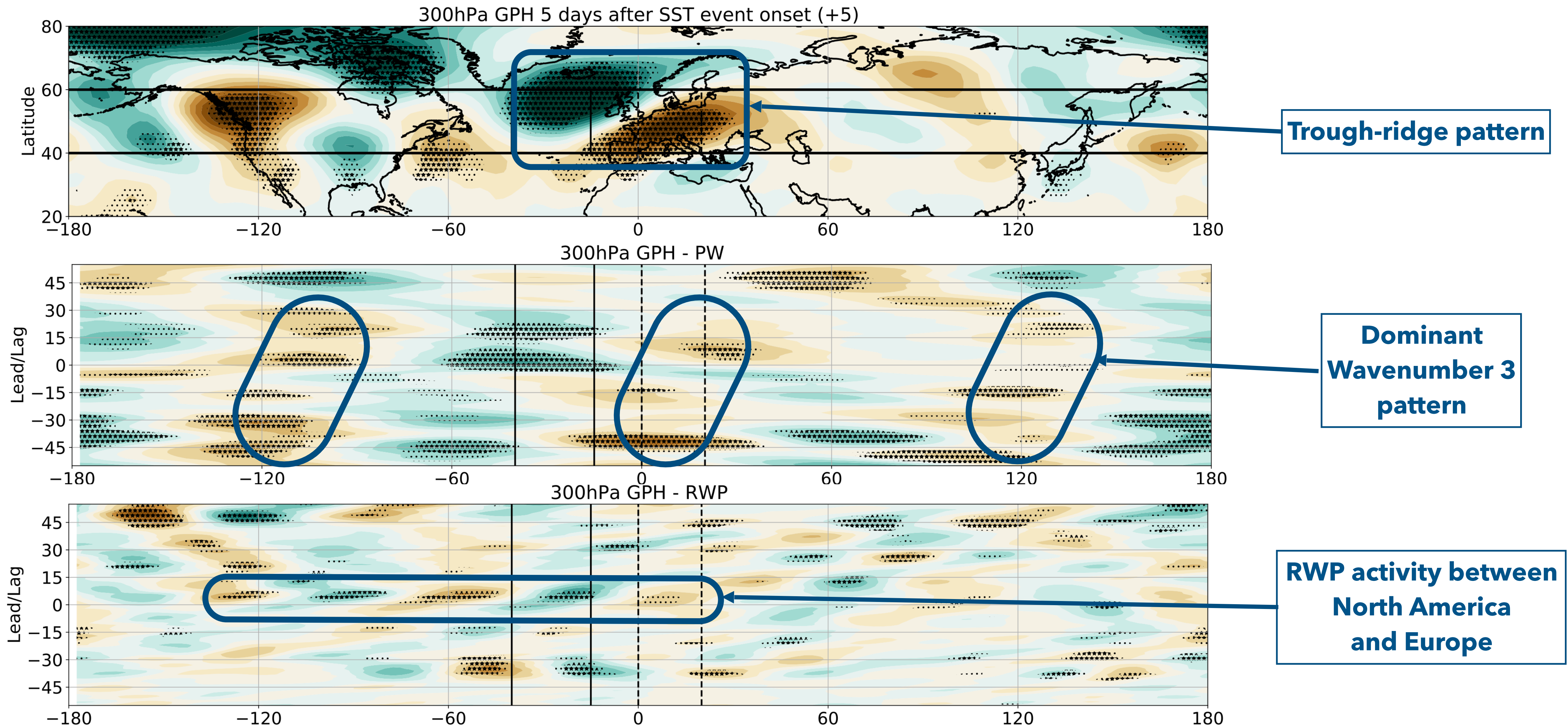
Criteria (ERA5 reanalysis 1979 -2019):

1. North Atlantic SST below 0.1 quantile (Intensity)
2. ... for at least 5 consecutive days (Duration)
3. Cold events are at least 30 days apart (Frequency)

11 cold North Atlantic SST events



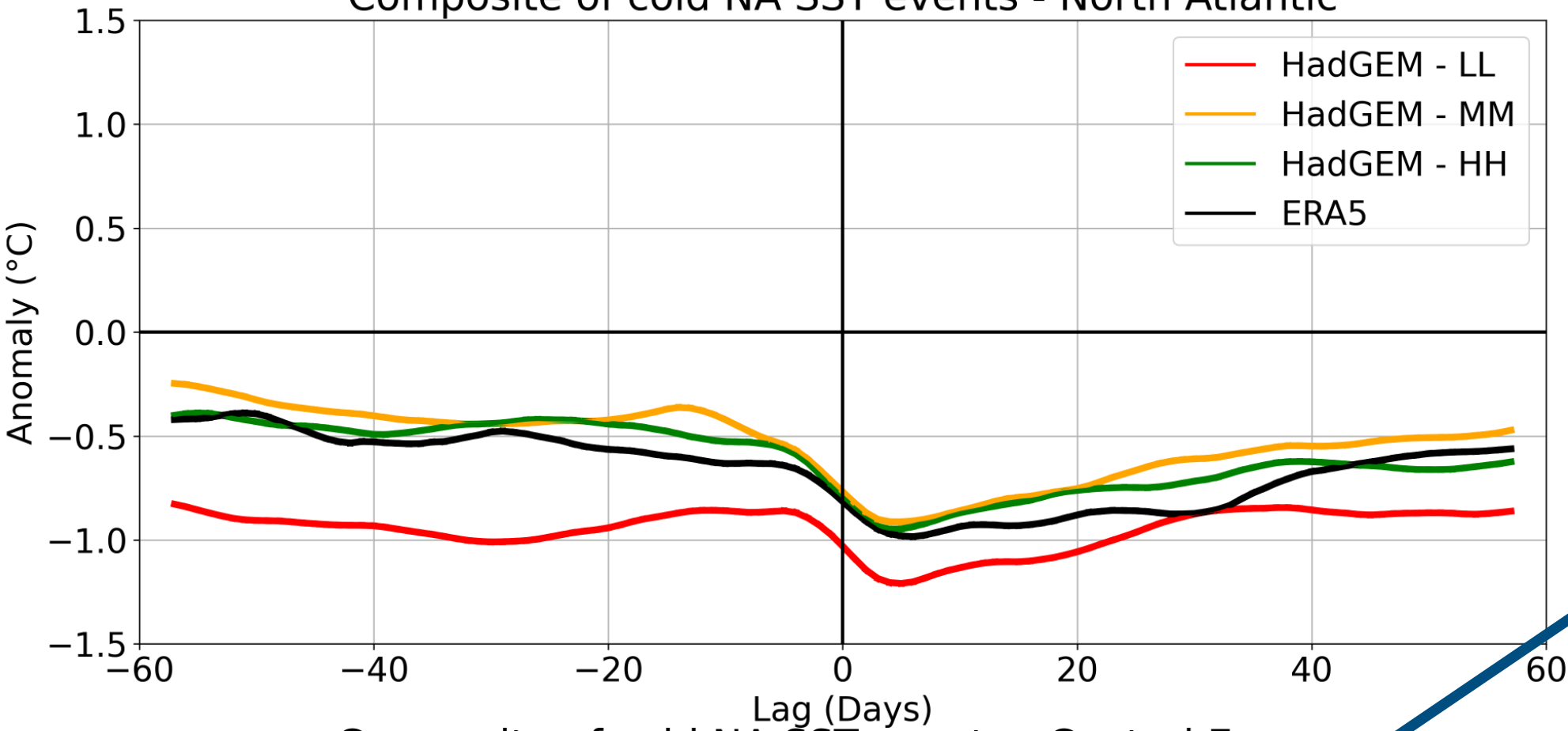
The relation between European heat waves and North Atlantic SSTs: a composite study



The relation between European heat waves and North Atlantic SSTs: a composite study

SST & T2m

Composite of cold NA SST events - North Atlantic



Number of cold NA SST events

ERA5: 11

HadGEM - LL: 29

HadGEM - MM: 35

HadGEM - HH: 28

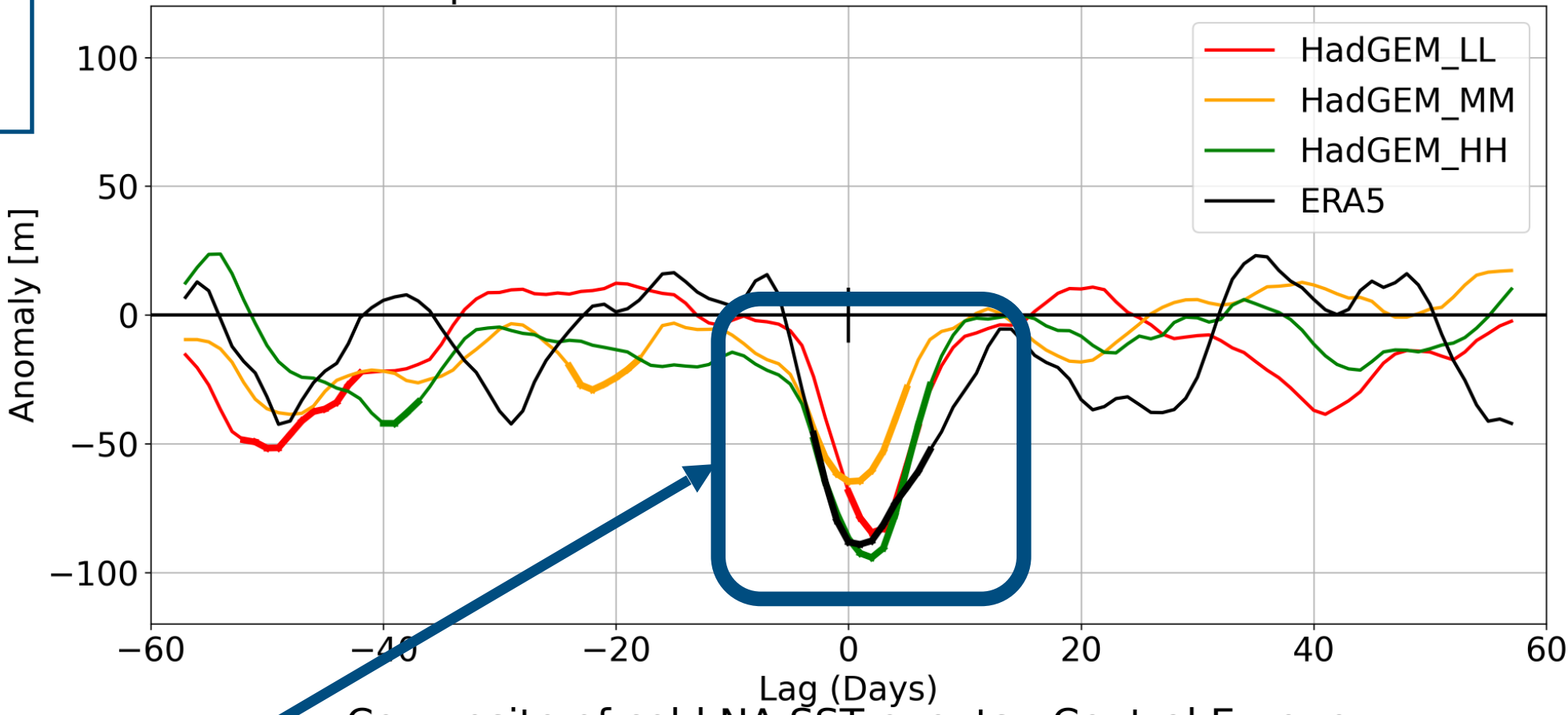
**HadGEM HH captures
European T2m
maximum best**

**HadGEM HH
reproduces
trough-ridge pattern**

Thank you!

Z300

Composite of cold NA SST events - North Atlantic



Composite of cold NA SST events - Central Europe

