Duchez et al. 2016
• Shading - meridional wind anomalies
• Jet Stream maximum - climatology
• Jet Stream maximum of respective MJJA season
• North Atlantic trough amplitude is enhanced more likely during cold SST events

• European ridge amplitude could gain more strength during cold SST events
Trough/ridge amplitude (gpm)

PDF anomaly from JJA climatology

(a) N. Atlantic
(45-60° N, 15-40° W)

(b) Europe
(45-60° N, 0-25° E)

SST leads

GPH leads

trough
ridge

PDF anomaly from JJA climatology
Enhancement of eastward travelling waves, particularly wave number 5,7, and 8

Opposite imprint, but lower magnitude and without outstanding anomalies
Trough – ridge PDF difference over cold N. Atlantic SSTs (37.5 - 57.5°N)

- **Positive**: wave anomalies when a trough is present
- **Negative**: wave anomalies when a ridge is present