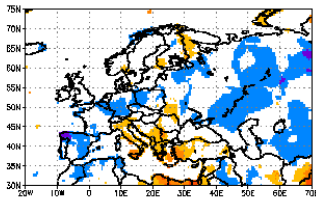
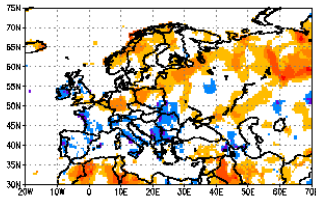


La Niña forcing on European Regions

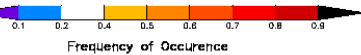
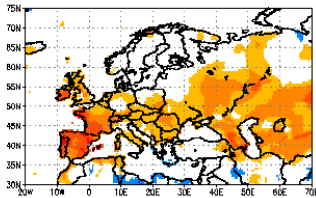
Temperature Probabilities for DJF associated with La Niña (Min. 10 NINO3.4 SSTa DJF 1950–1995) "ABOVE-NORMAL"



"NEAR-NORMAL"

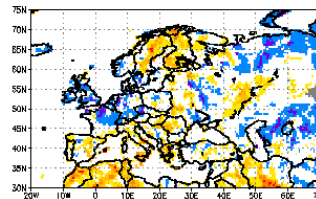


"BELOW-NORMAL"

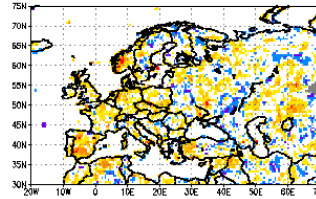


Frequency of Occurrence

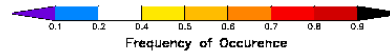
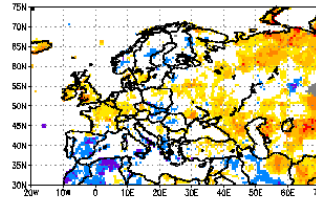
Precipitation Probabilities for DJF associated with La Niña (Min. 10 NINO3.4 SSTa DJF 1950–1995) "ABOVE-NORMAL"



"NEAR-NORMAL"



"BELOW-NORMAL"



Frequency of Occurrence

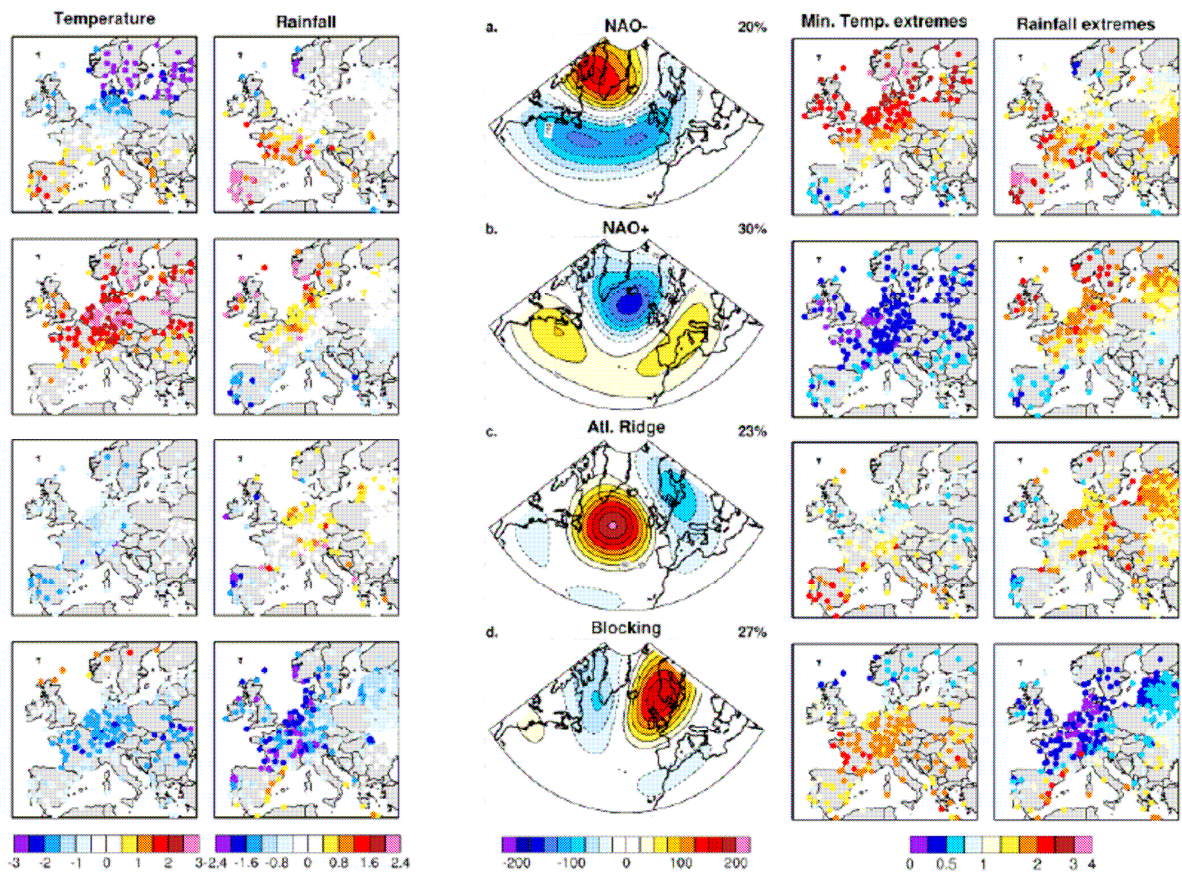
Cold NINO3.4 Yrs (incr. magnitude): 1963, 1985, 1965, 1951, 1955, 1956, 1989, 1976, 1971, 1974
 Cold NINO3.4 Yrs (incr. magnitude): 1963, 1985, 1965, 1951, 1955, 1956, 1989, 1976, 1971, 1974

IRI International Research Institute for climate prediction

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The Niña influence is more visible on temperature than on precipitations. As a matter of evidence, when a strong La Niña forcing occurs, a below normal situation is most likely on a large part of Europe including SEE regions. For the precipitation, the influence is less clear. However there is some traces of influence (below normal situation) for the eastern part of the SEE region (and also on France and North Africa)

North Atlantic circulation regimes influence



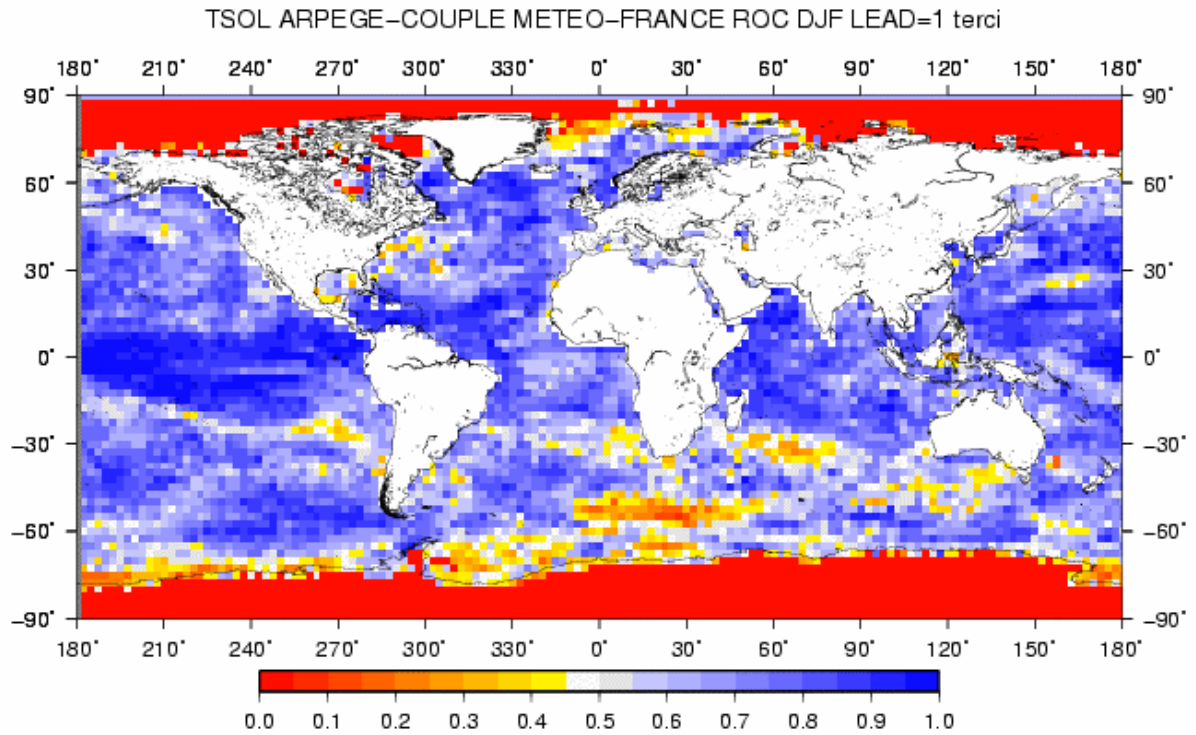
Patterns of the geopotential height at 500 hPa for the 4 main circulation regimes in winter relevant for the North Atlantic sector (middle panel).

On the left panel, one can see the averaged effect on the seasonal mean for both temperature and rainfall. Positive anomalies (in °C for temperature and mm/days for the rainfall) are in yellow to red colours while negative anomalies are in light to dark blue. They correspond to the average of the conditional climatology.

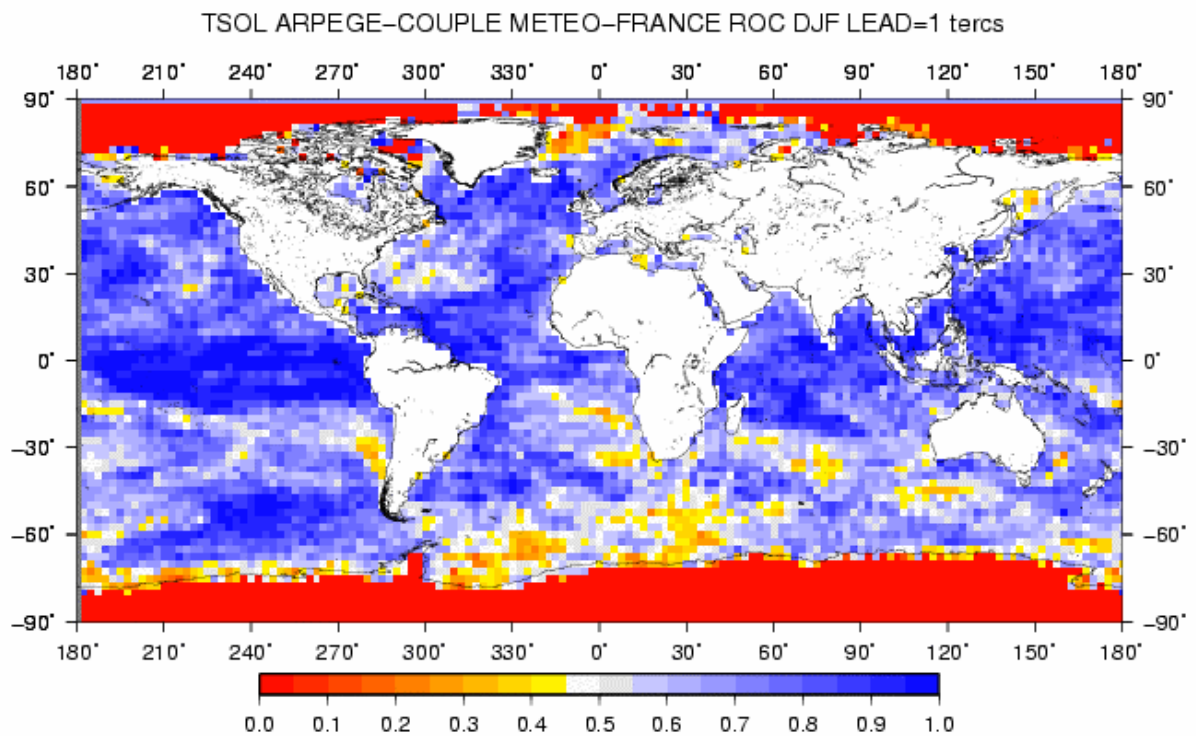
On the right, colors indicate the conditional effect on the probability of occurrence of minimum temperature and rainfall extremes. Extremes are defined with respect of the 5th of the climatologic distribution. A yellow to red color indicate an increased probability of occurrence of extreme events (e.g. a value of 2 means that the climatologic probability – of 5% – is increased by factor of 2). The blue to purple colours indicate a decreased probability of occurrence of extreme events.

Scores of the Météo-France model : ROC Scores

SST :

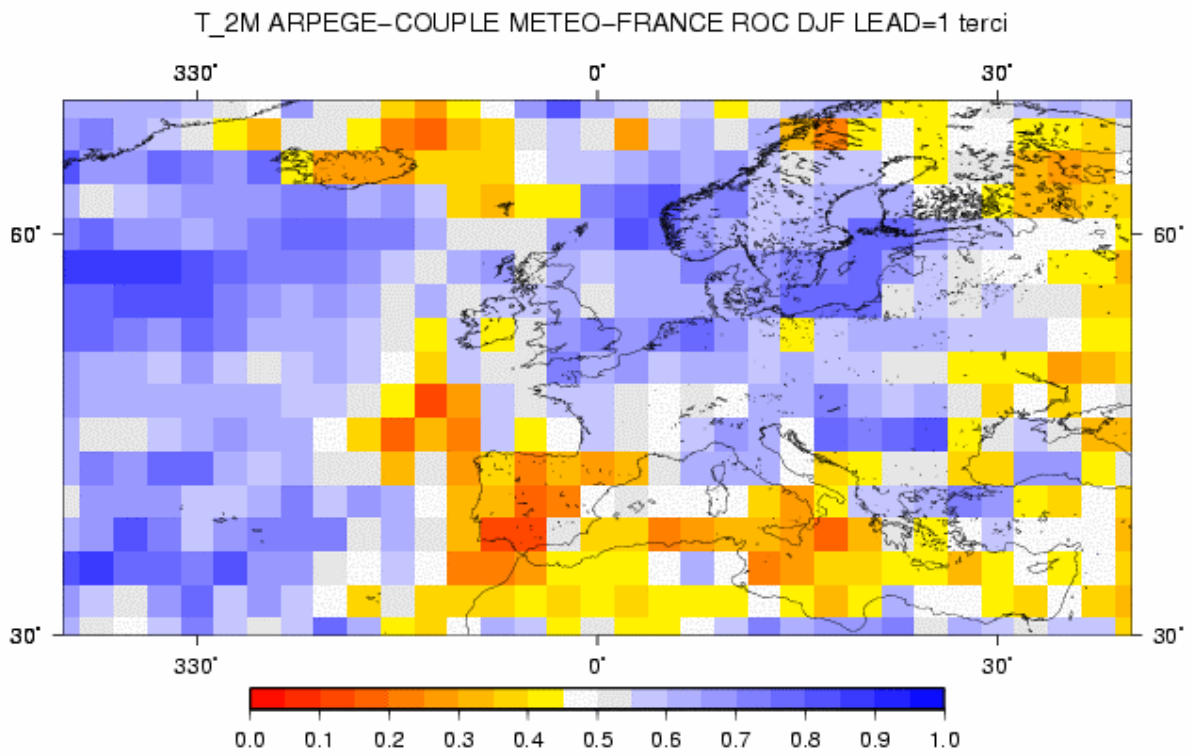


Roc score for the lower tercile

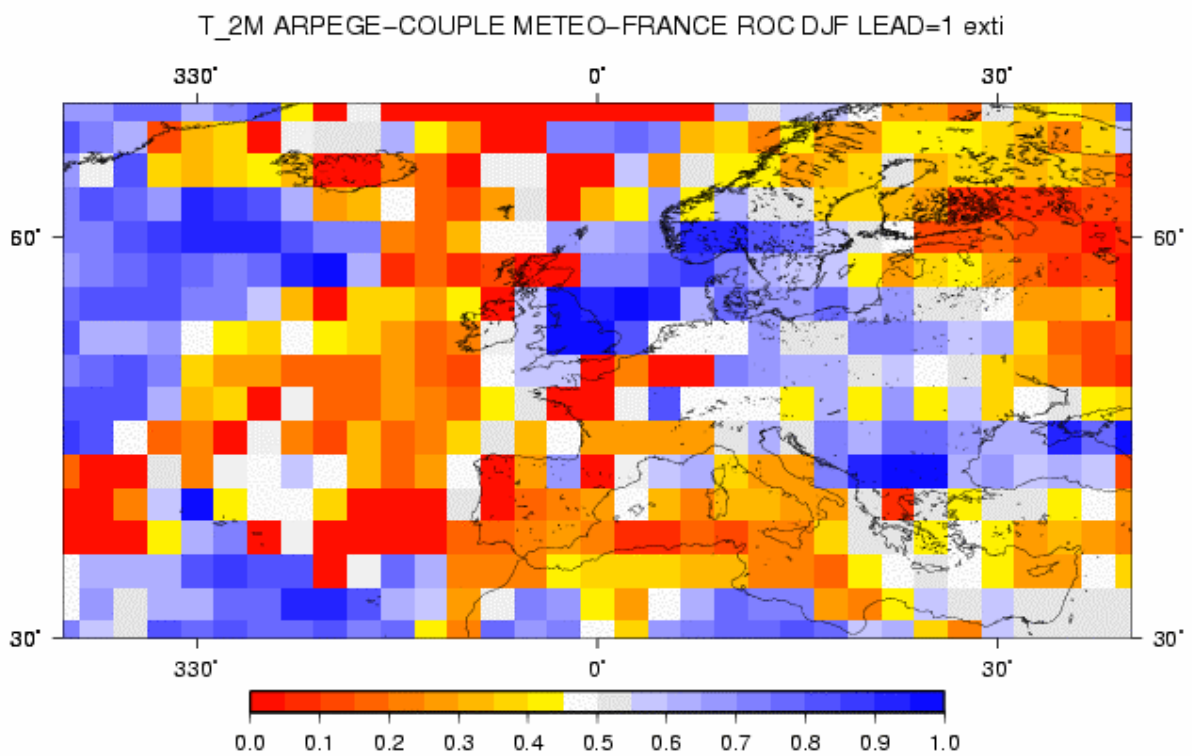


Roc score for the upper tercile

Temperature at 2 meters :

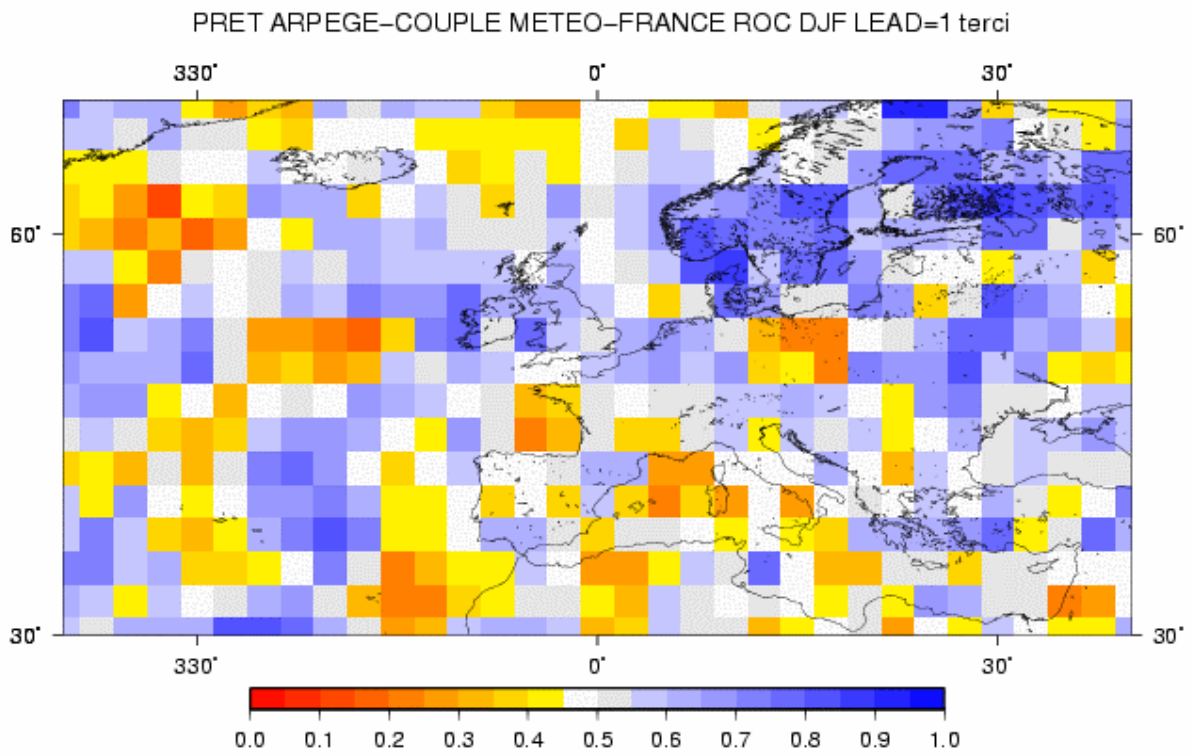


Roc score for the lower tercile

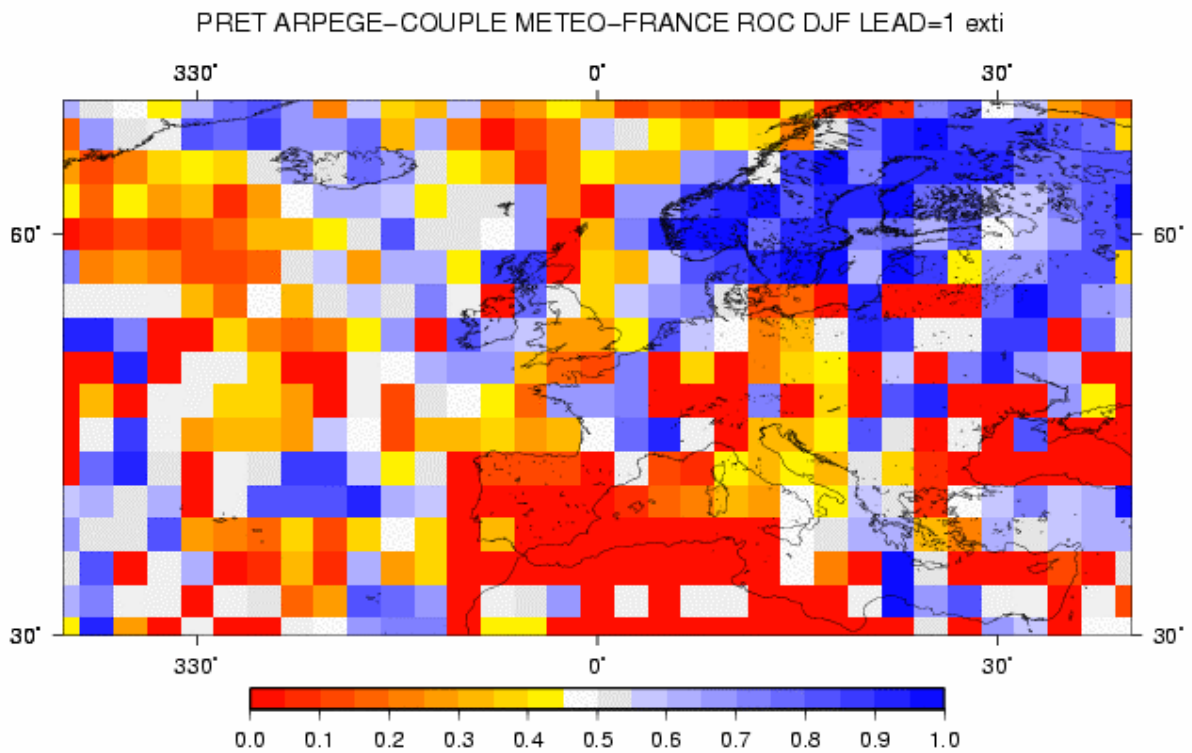


Roc score for the “Extreme” lower category (below - 1 std)

Precipitation :



Roc score for the lower tercile



Roc score for the "Extreme" lower category (below - 1 std)