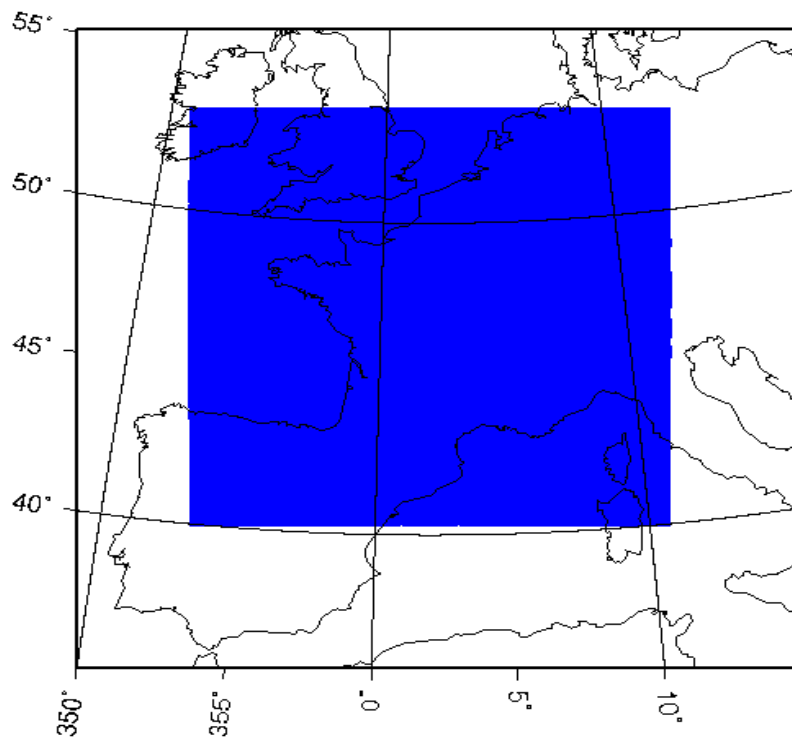


# Les phénomènes extrêmes : ALADIN

# Caractéristiques ALADIN FRA12

- Version 4.6 d'ARPEGE-climat
- Grille 150\*150 dont 123\*123 sans rappel (bleu)
- Pas de temps 10 min



# Simulations

- Référence : 1961-1990
- Scénario A1B : 2021-2050 et 2071-2100
- Scénario A2 : 2021-2050 et 2071-2100
- Scénario B1 : 2021-2050 et 2071-2100

# Correction quantile-quantile

- Séries quotidiennes SAFRAN (8602 points, 1960-1991) :
  1. TEMPERATURE MINI
  2. TEMPERATURE MAXI
  3. VENT MOYEN
  4. VENT MAXI (corrigé OKAPI)
  5. HUMIDITE SPECIFIQUE
  6. PRECIPITATIONS
  7. CHUTE DE NEIGE
  8. RAYONNEMENT INFRAROUGE DESCENDANT
  9. RAYONNEMENT SOLAIRE DESCENDANT
- Calculer les centiles pour 4 saisons x 4 régimes de temps
- Répéter pour les séries ALADIN (6341 points, plus proche voisin SAFRAN)
- Associer Q0.005, Q0.01 ... Q0.99, Q0.995 dans référence
- Corriger référence et scénarios

# Indices STARDEX

- Projet Européen
- Plus de 50 indices pour chaque saison
- Base annuelle
- Modèles et observations
- Voir page  
<http://imfrefx.mediasfrance.org/web/>
- Quelques échantillons ici
- Cartes de ratio: indice futur/indice présent

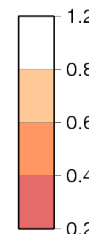
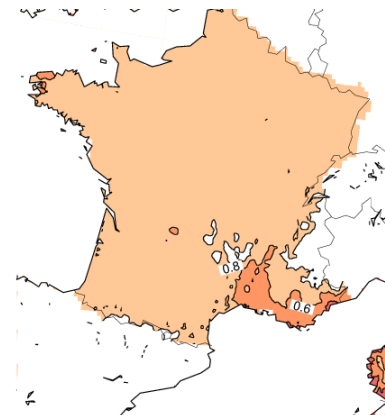
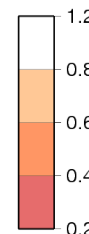
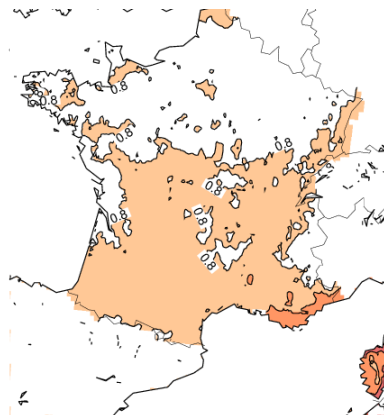
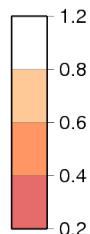
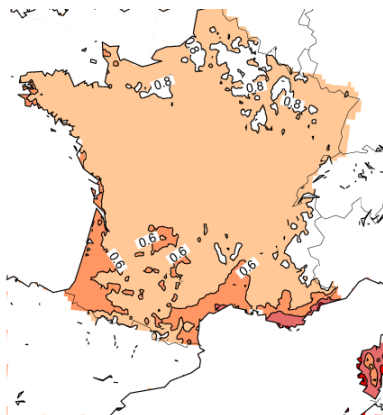
# Nbre jours de gel

**A1B**

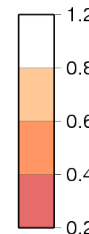
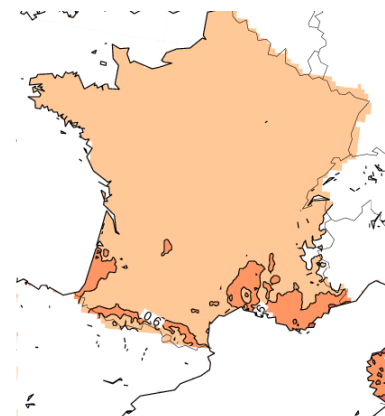
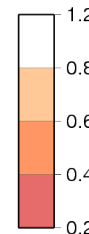
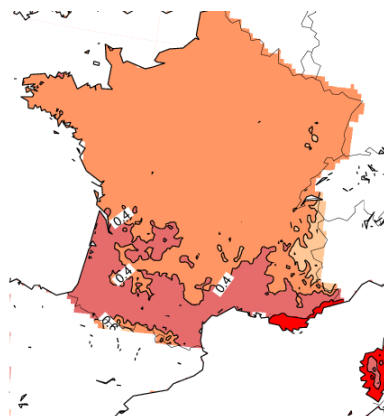
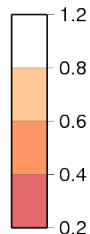
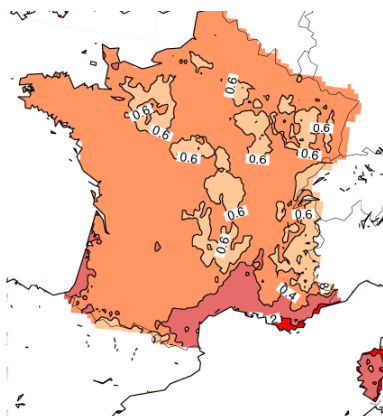
**A2**

**B1**

**2021-2050**



**2071-2100**



**Référence 1961-1990**

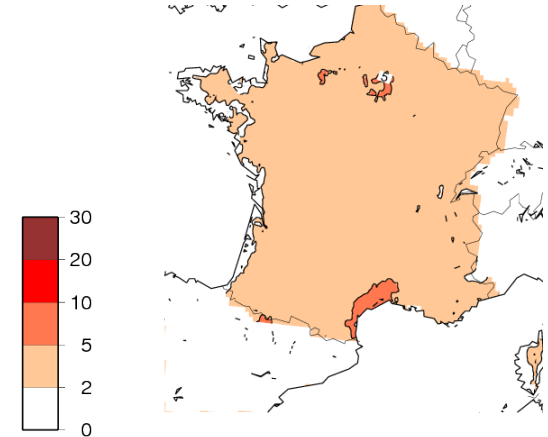
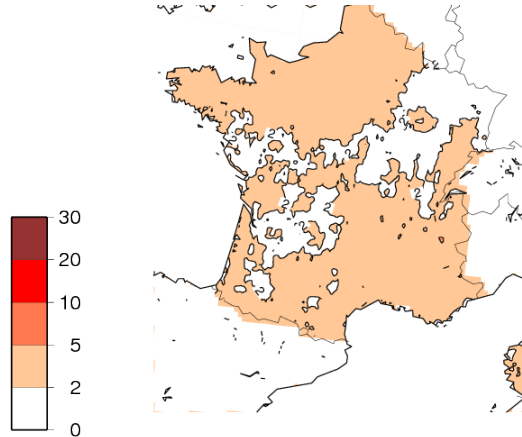
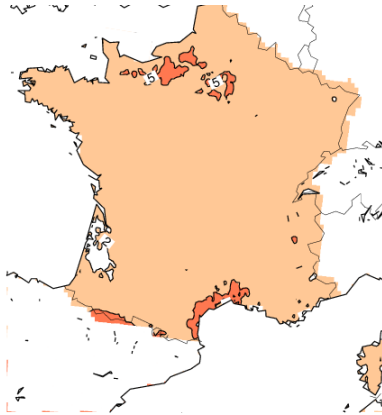
# Nbre jours de canicule JJA

**A1B**

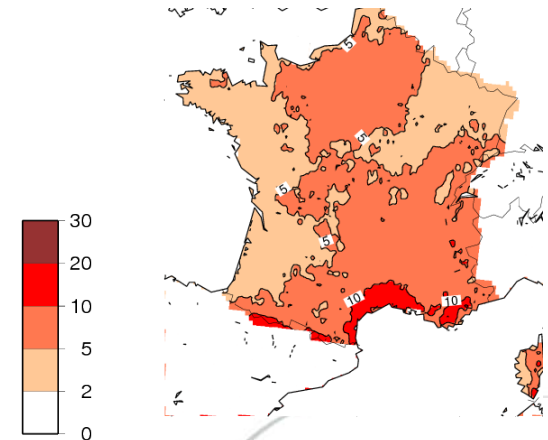
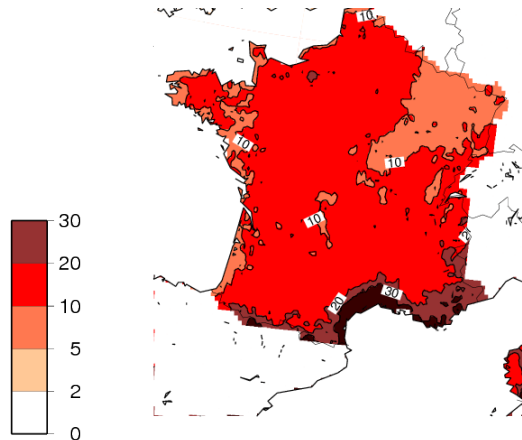
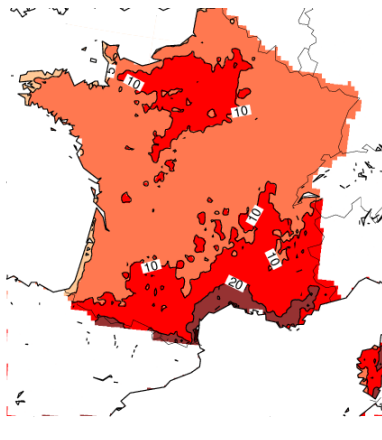
**A2**

**B1**

**2021-2050**



**2071-2100**



**Référence 1961-1990**

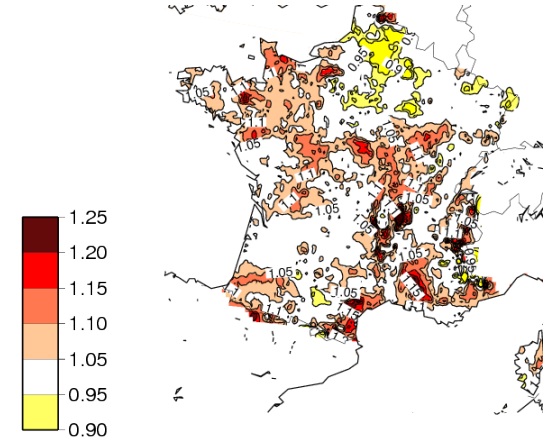
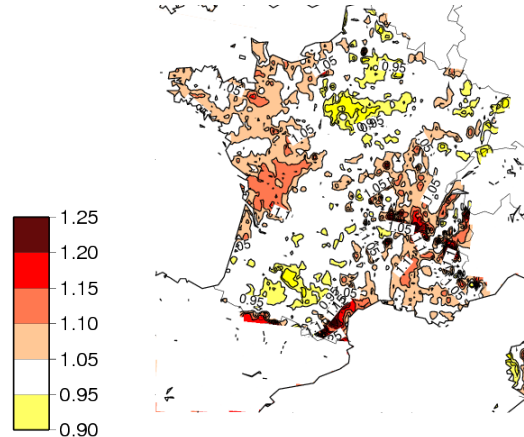
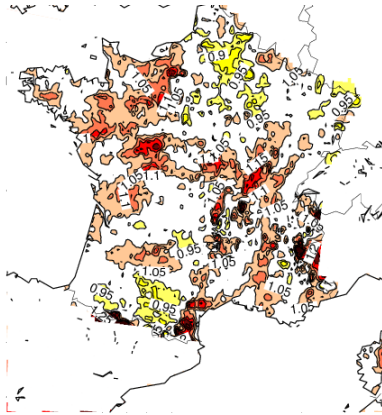
# Precip/RR>20 DJF

## A1B

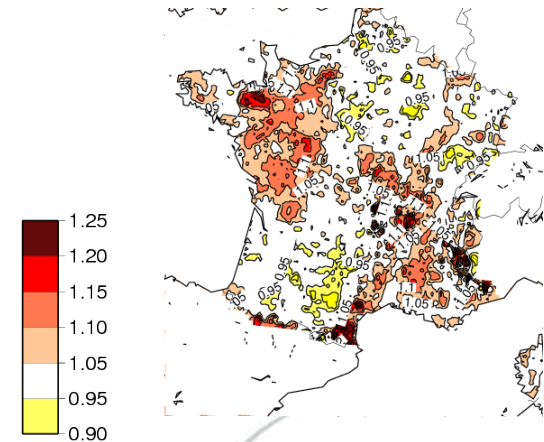
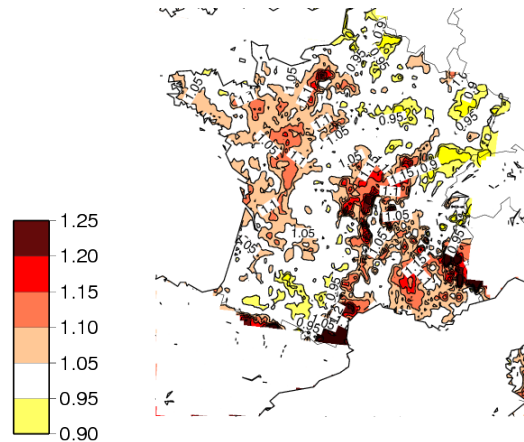
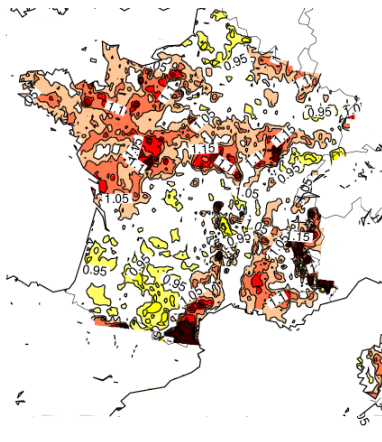
## A2

## B1

### 2021-2050



### 2071-2100



## Référence 1961-1990



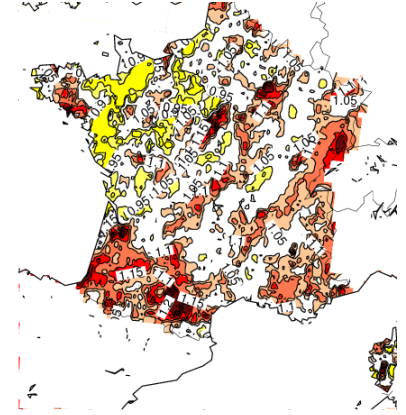
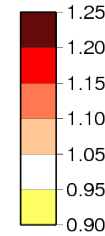
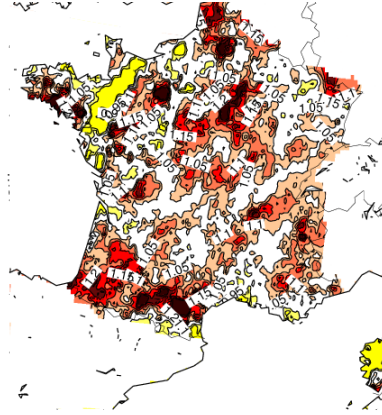
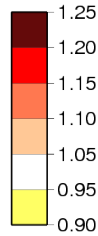
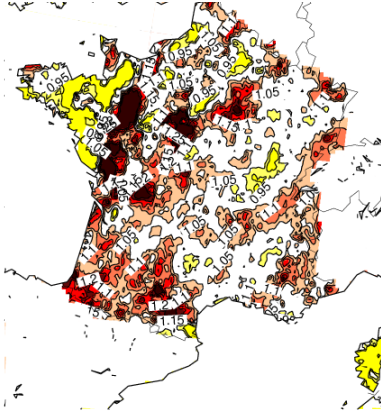
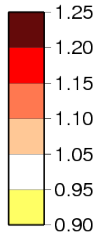
# Precip/RR>20 JJA

## A1B

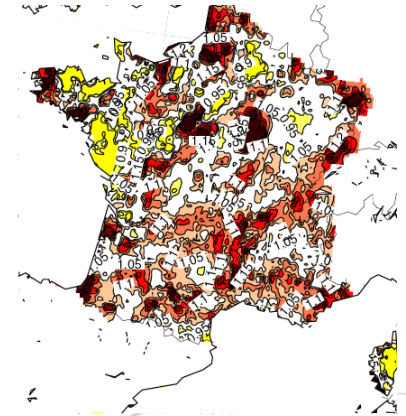
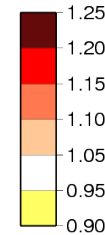
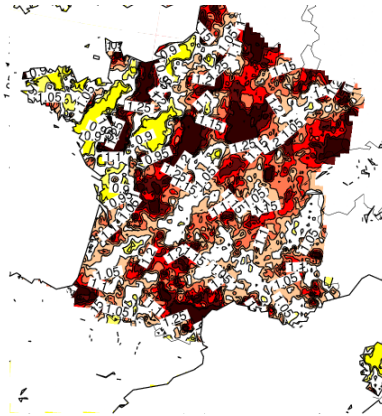
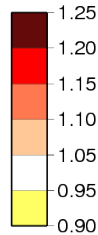
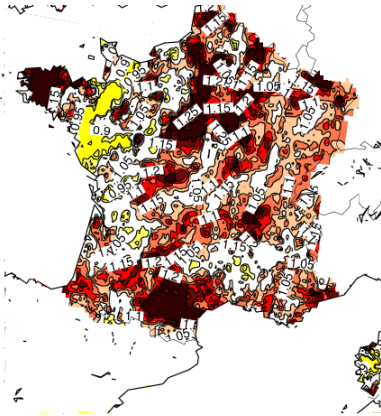
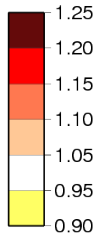
## A2

## B1

### 2021-2050



### 2071-2100



## Référence 1961-1990

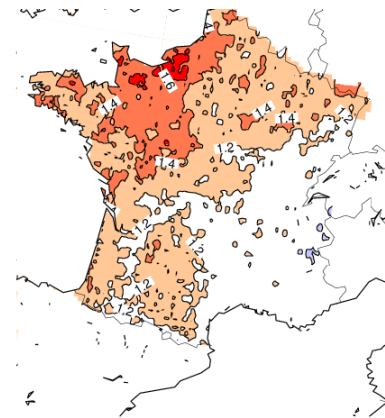
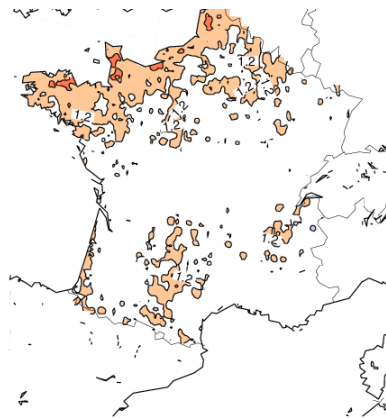
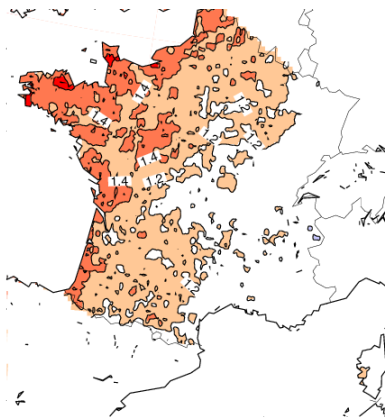
# Durée maxi sécheresse JJA

**A1B**

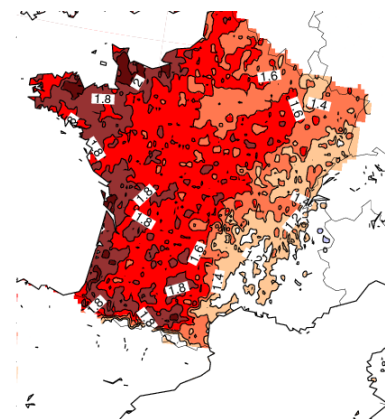
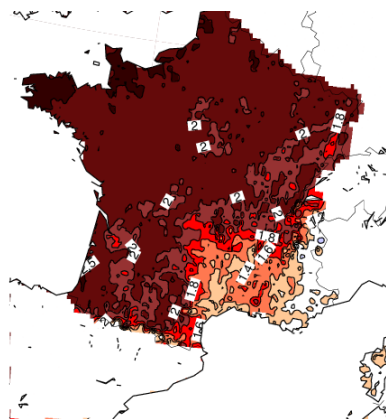
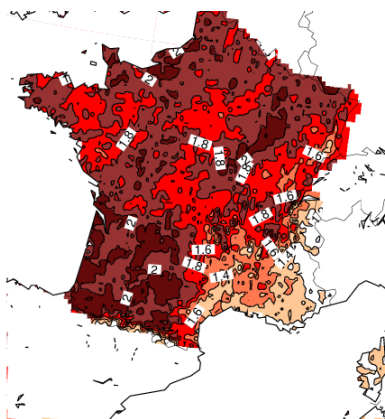
**A2**

**B1**

**2021-2050**



**2071-2100**



**Référence 1961-1990**

# Vent maximum DJF

2021-2050

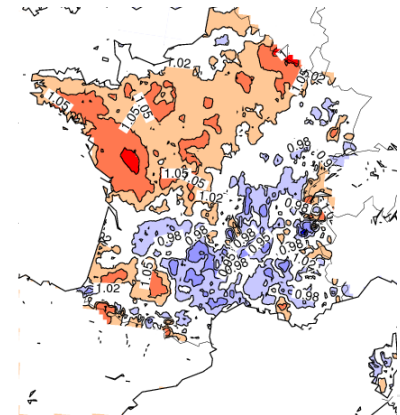
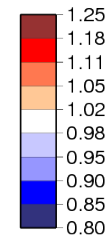
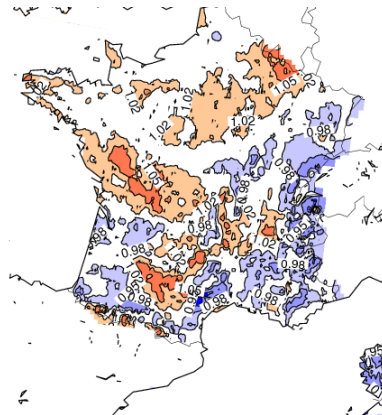
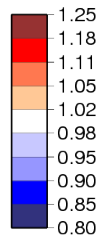
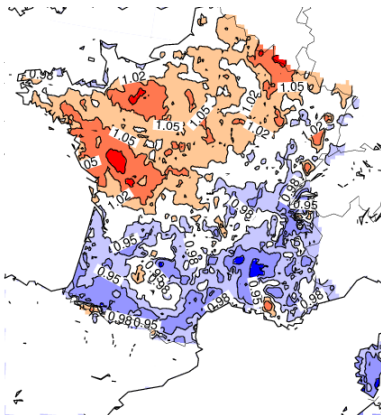
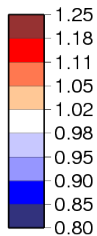
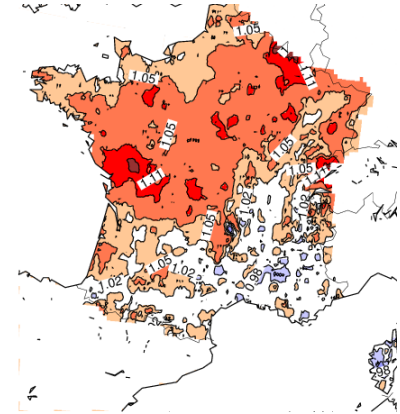
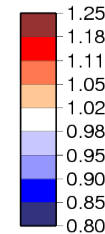
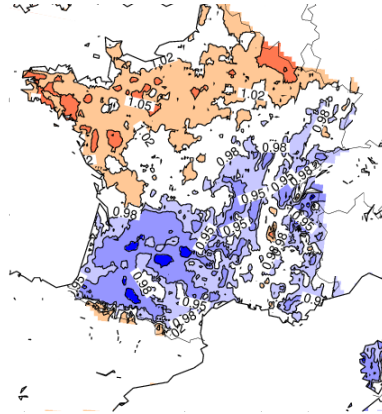
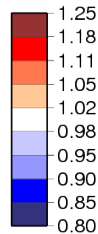
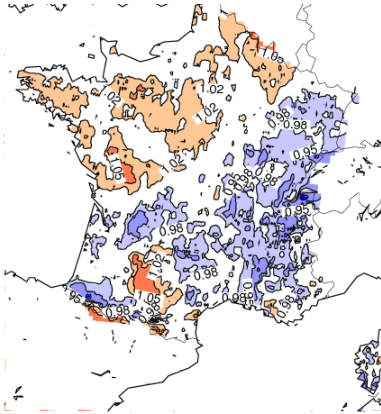
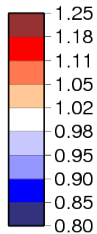
2071-2100

Référence 1961-1990

A1B

A2

B1



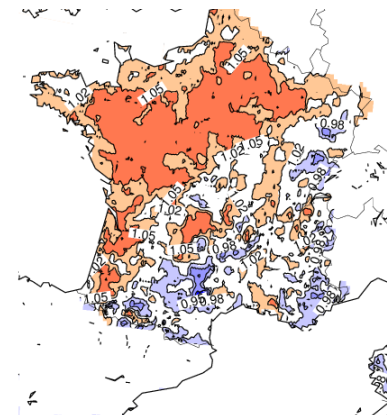
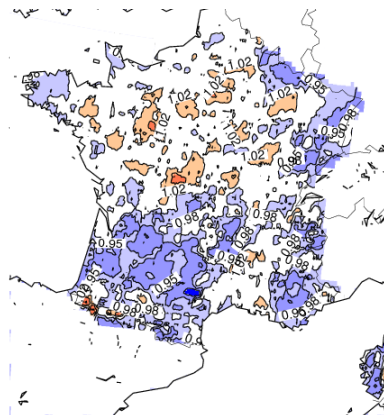
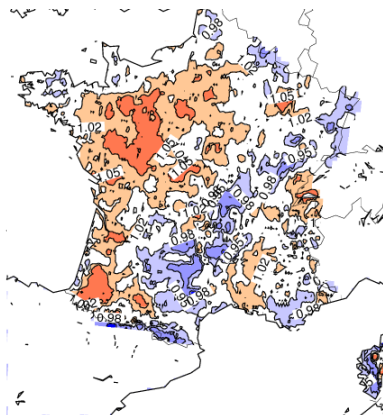
# Vent maximum JJA

## A1B

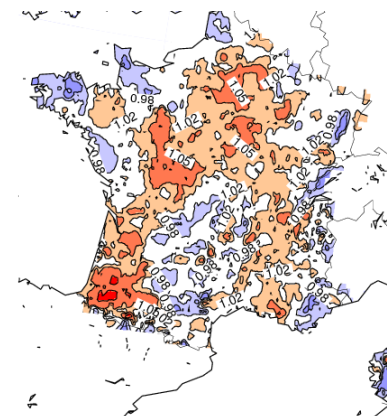
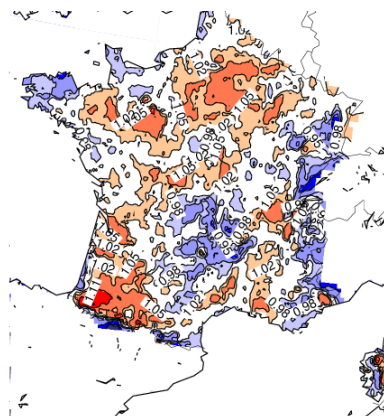
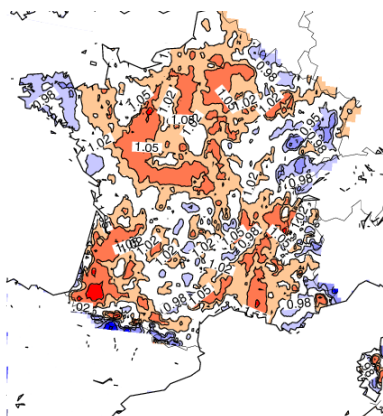
## A2

## B1

### 2021-2050



### 2071-2100



## Référence 1961-1990