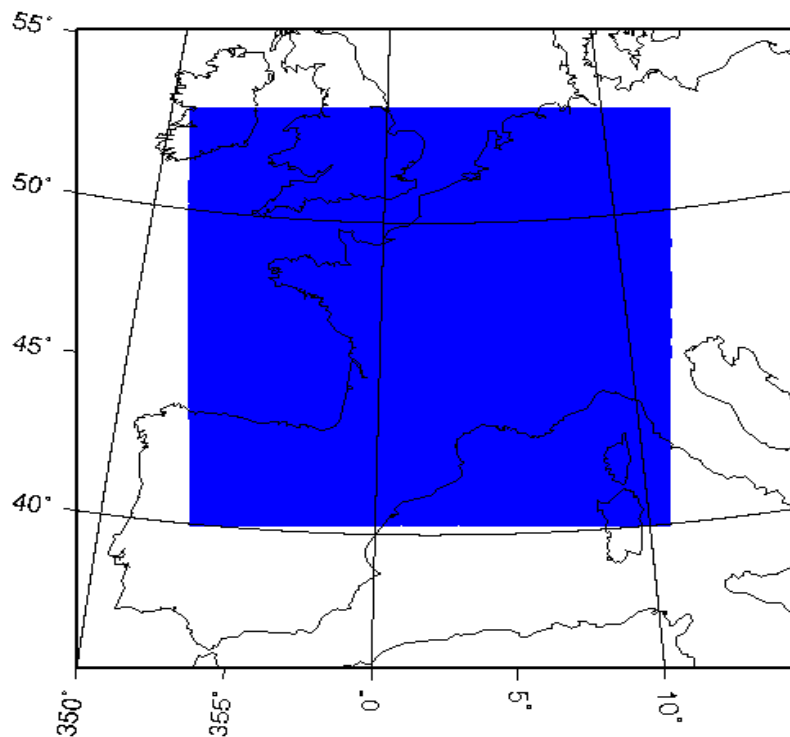


# Correction des sorties ALADIN: Grille SAFRAN

# Caractéristiques ALADIN FRA12

- Version 4.6 d'ARPEGE-climat
- Grille 150\*150 dont 123\*123 libres
- Pas de temps 10 min (stable 20 min)



# Simulations corrigées

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

# Analyses SAFRAN

- Grille de 8602 points interpolés à partir de SYMPOSIUM (8km)
  - Données horaires du 1er août 1960 au 31 juillet 1991
1. TEMPERATURE
  2. VENT
  3. HUMIDITE SPECIFIQUE
  4. PRECIPITATIONS
  5. CHUTE DE NEIGE
  6. RAYONNEMENT INFRAROUGE DESCENDANT
  7. RAYONNEMENT SOLAIRE DESCENDANT

# Etapes de la correction I

- Préparer les séries quotidiennes SAFRAN :
  1. TEMPERATURE MINI
  2. TEMPERATURE MAXI
  3. VENT MOYEN
  4. VENT MAXI
  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
- Corriger les centiles de vent maxi (30 stations OKAPI q-q vent moyen → rafales)

# Etapes de la correction II

- Préparer les séries quotidiennes ALADIN :
  1. TEMPERATURE MINI
  2. TEMPERATURE MAXI
  3. VENT MOYEN
  4. VENT MAXI (RAFALES)
  5. HUMIDITE SPECIFIQUE
  6. PRECIPITATIONS
  7. CHUTE DE NEIGE
  8. RAYONNEMENT INFRAROUGE DESCENDANT
  9. RAYONNEMENT SOLAIRE DESCENDANT
- Passer de 6h à quotidien et de 6341 points à 8602 (proche voisin)
- Calculer les centiles pour 4 saisons x 4 régimes de temps
- Corriger les séries en utilisant les centiles SAFRAN:
  - Borne inférieure (=0)
  - Q0,5%
  - Q1% ...Q99%
  - Q99,5%
  - Borne supérieure (=Q99,5%+1000)

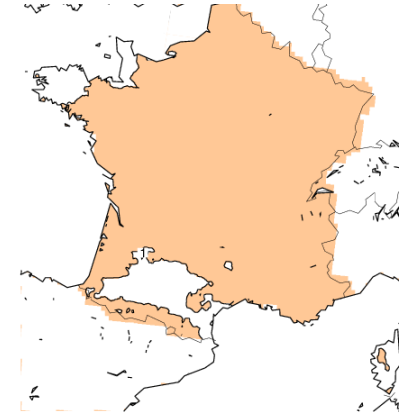
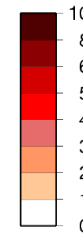
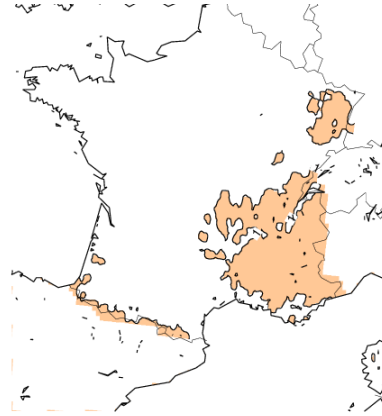
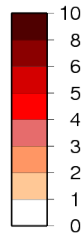
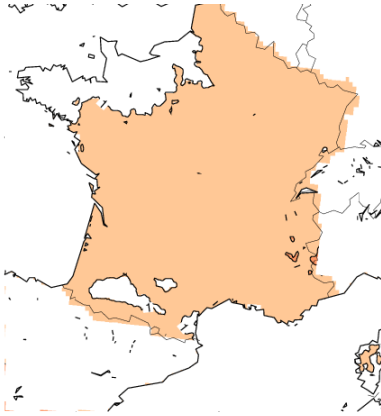
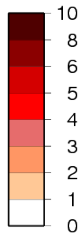
# Température minimale DJF

**A1B**

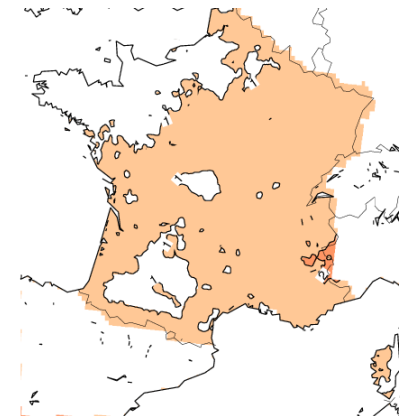
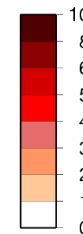
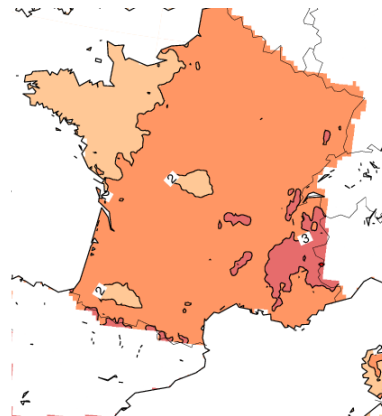
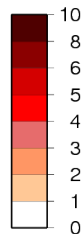
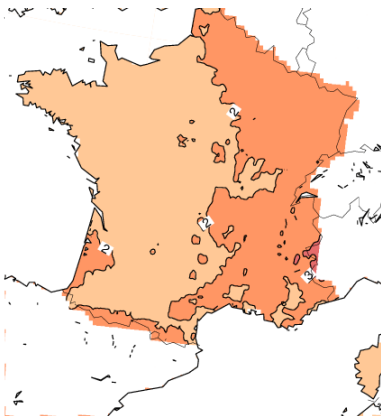
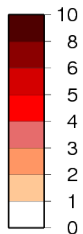
**A2**

**B1**

**2021-2050**



**2071-2100**



**Référence 1961-1990**

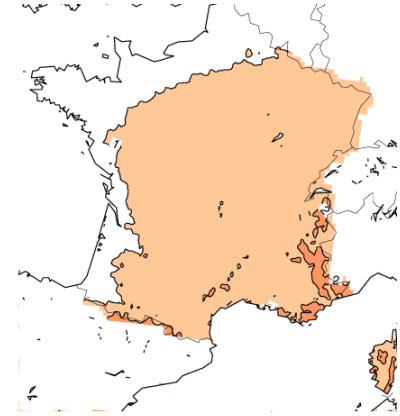
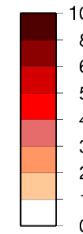
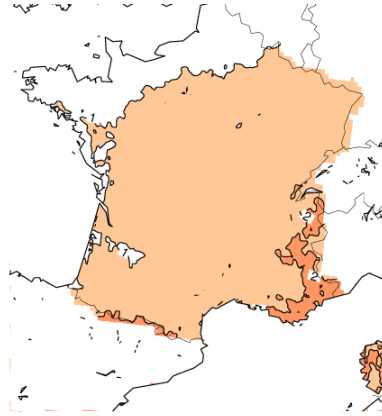
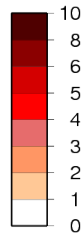
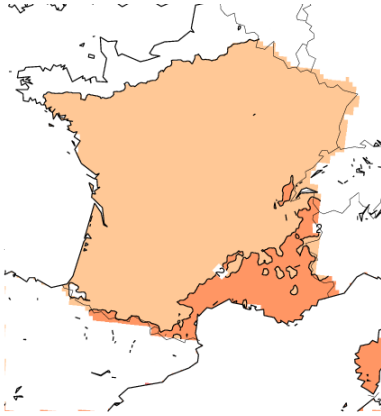
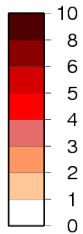
# Température minimale JJA

**A1B**

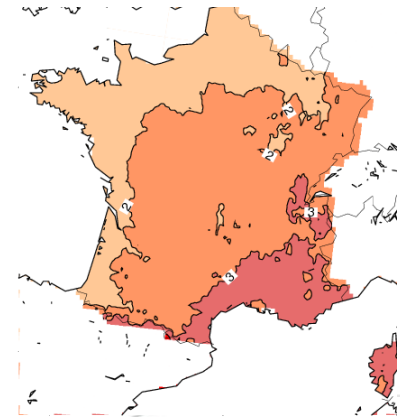
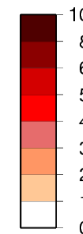
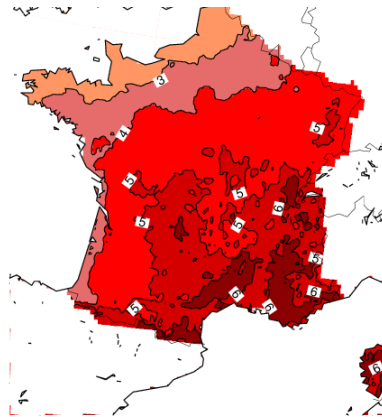
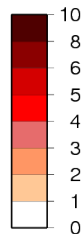
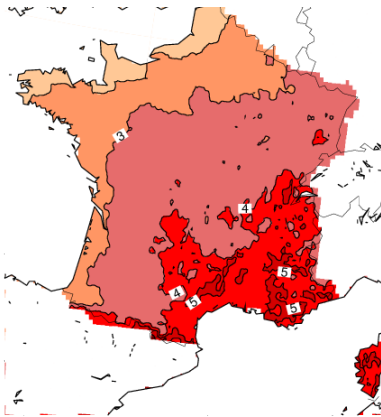
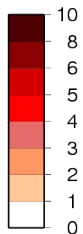
**A2**

**B1**

**2021-2050**



**2071-2100**



**Référence 1961-1990**



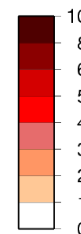
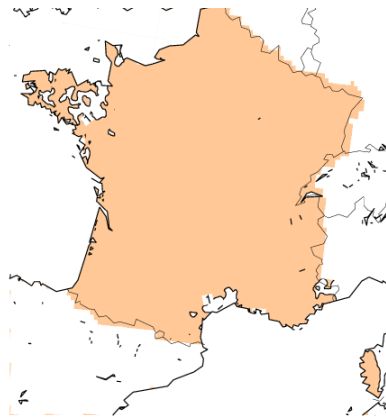
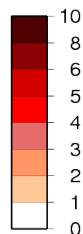
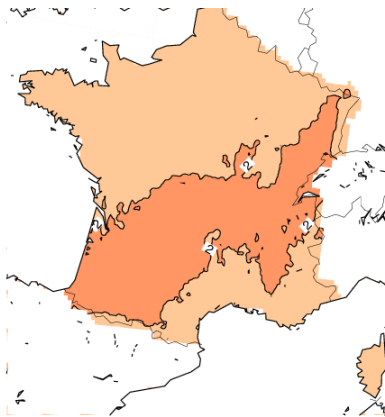
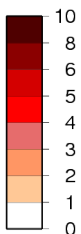
# Température maximale DJF

**A1B**

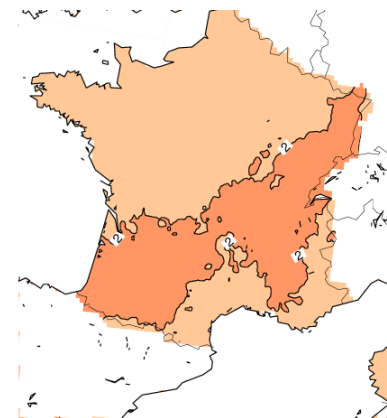
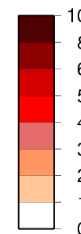
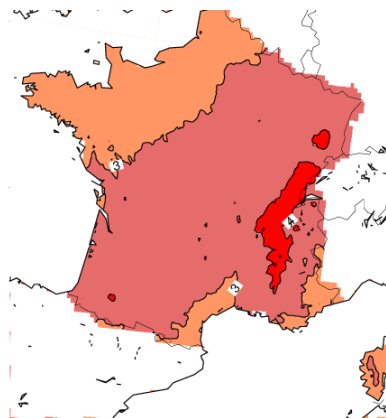
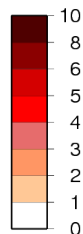
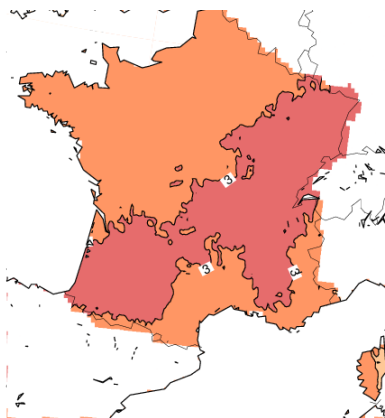
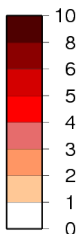
**A2**

**B1**

**2021-2050**



**2071-2100**



**Référence 1961-1990**

# Température maximale JJA

2021-2050

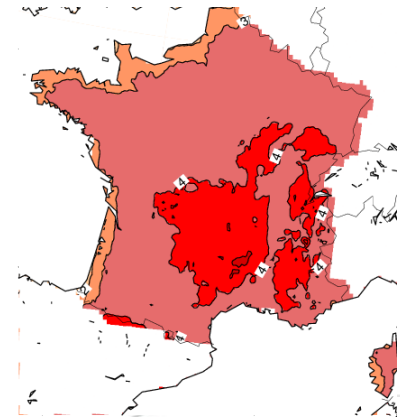
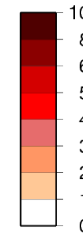
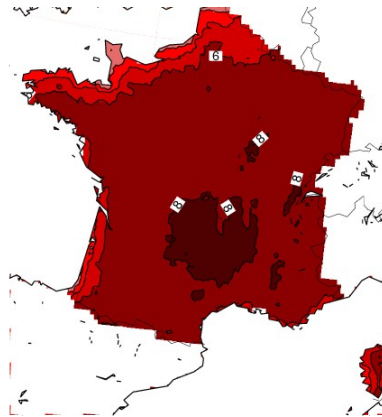
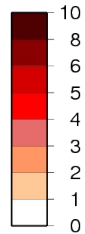
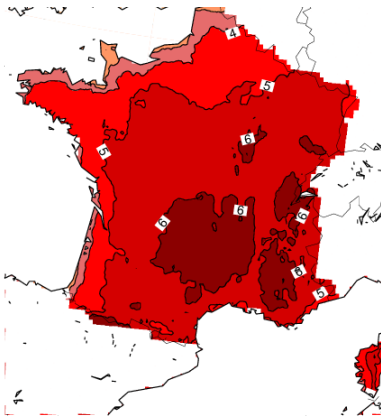
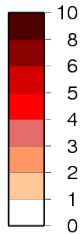
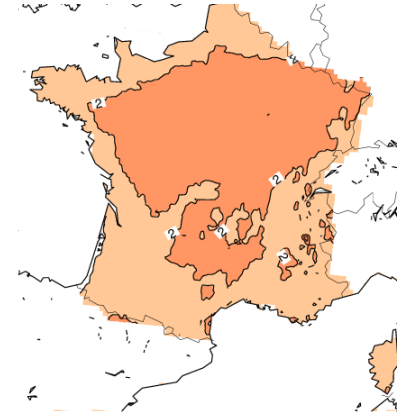
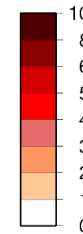
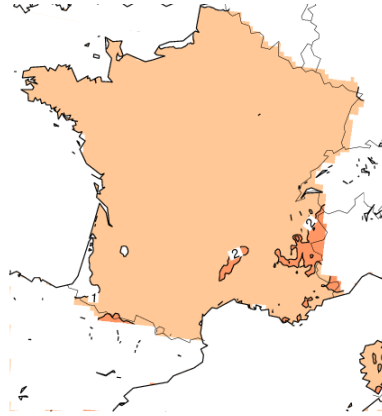
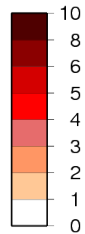
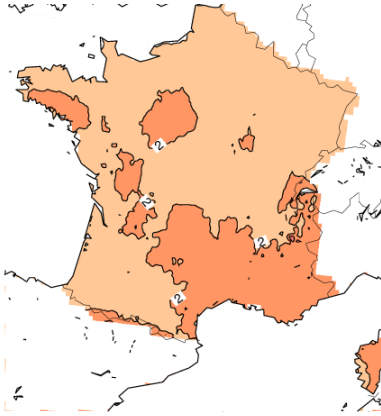
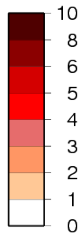
2071-2100

Référence 1961-1990

A1B

A2

B1



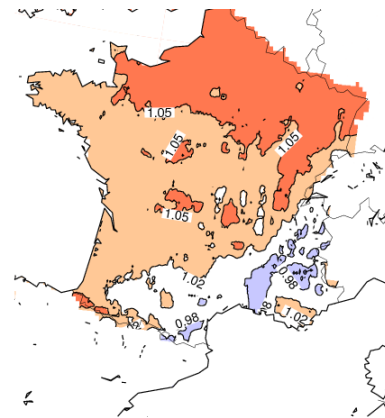
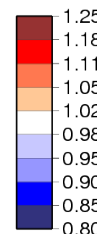
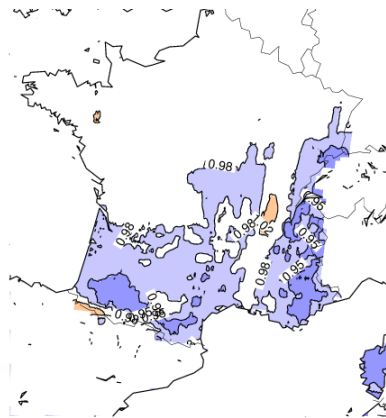
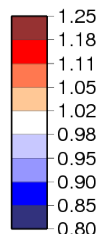
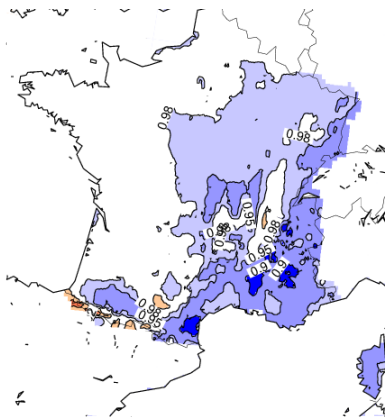
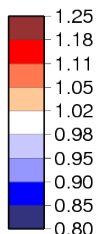
# Vent moyen DJF

## A1B

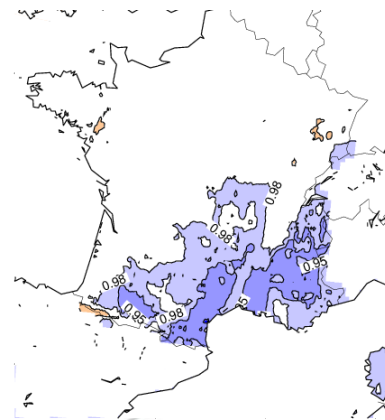
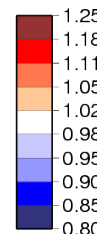
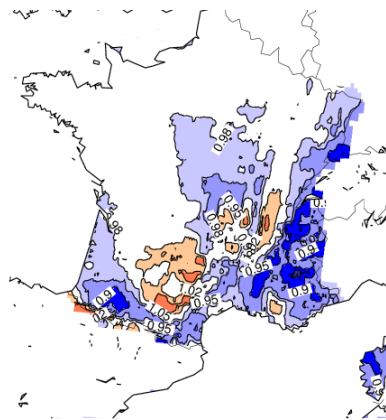
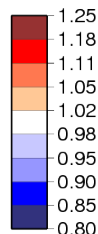
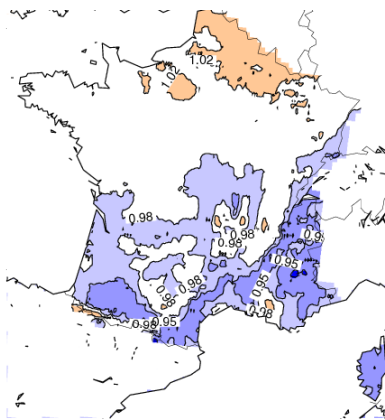
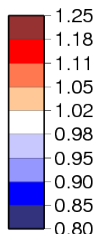
## A2

## B1

### 2021-2050



### 2071-2100



## Référence 1961-1990

# Vent moyen JJA

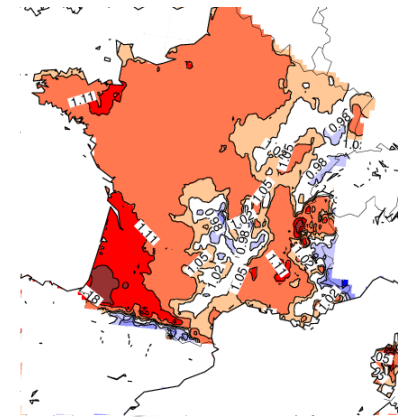
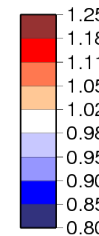
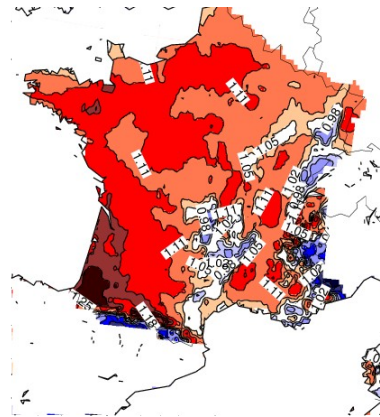
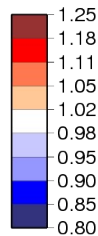
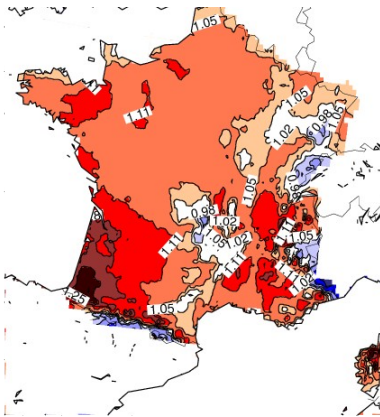
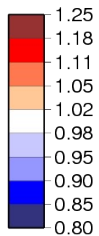
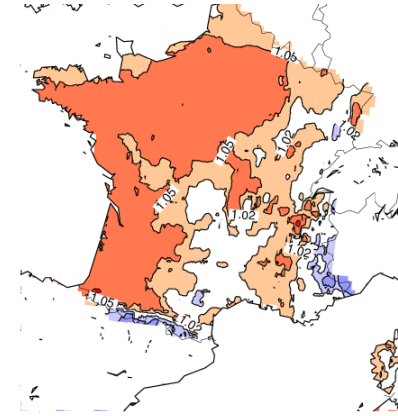
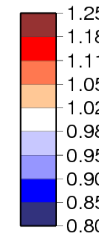
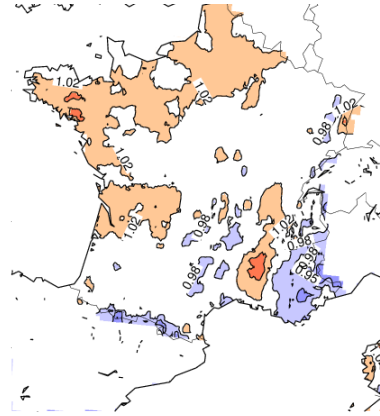
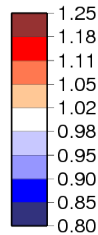
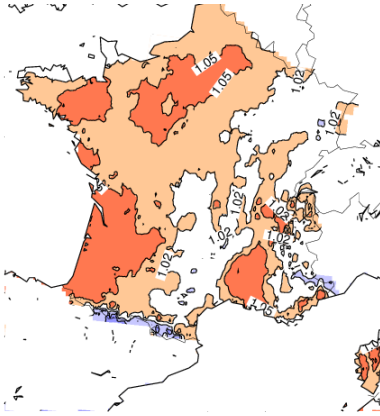
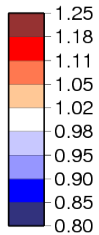
2021-2050

2071-2100

A1B

A2

B1



Référence 1961-1990

# Vent maximum DJF

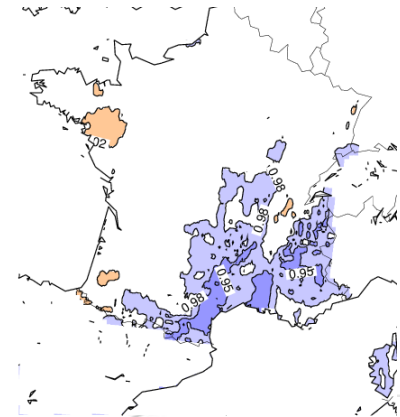
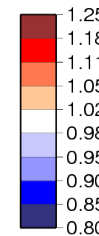
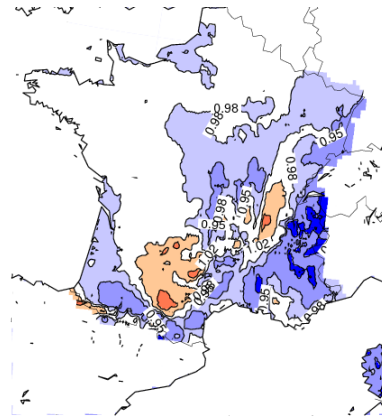
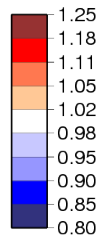
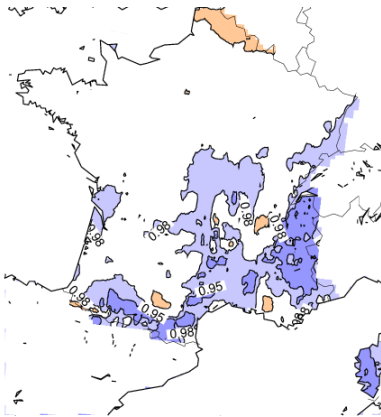
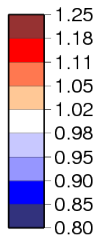
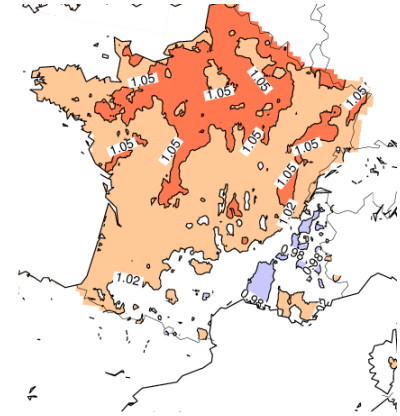
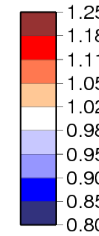
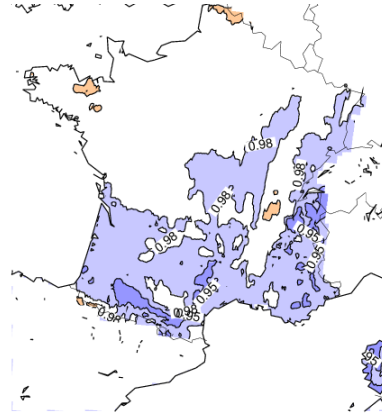
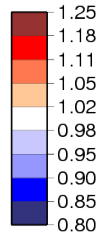
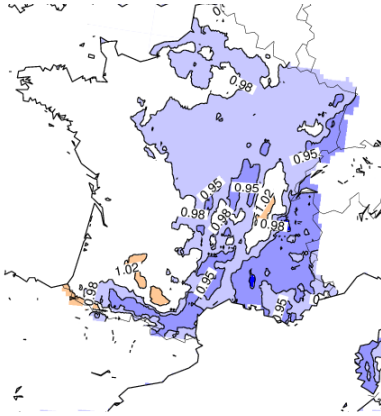
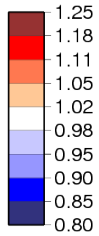
2021-2050

2071-2100

A1B

A2

B1



Référence 1961-1990

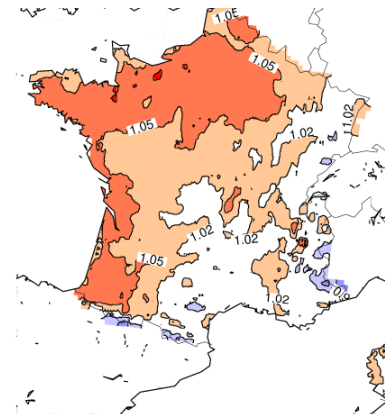
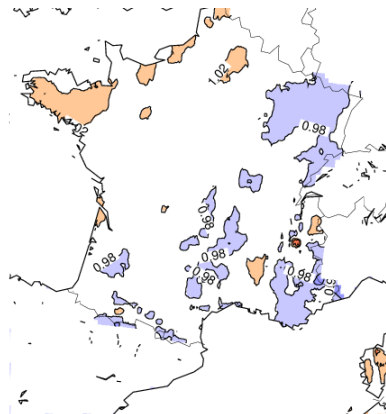
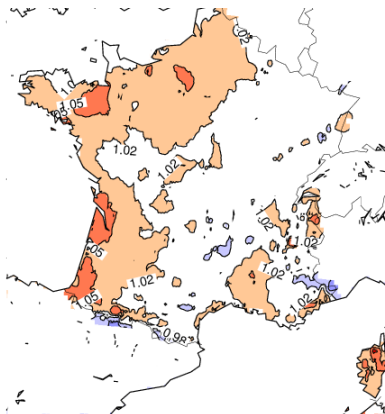
# Vent maximum JJA

A1B

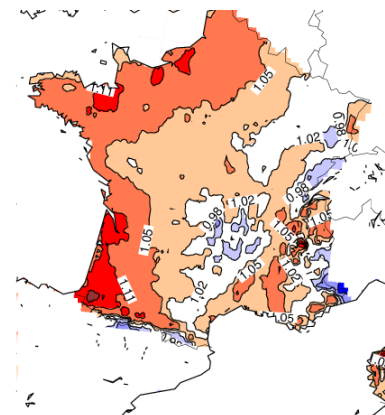
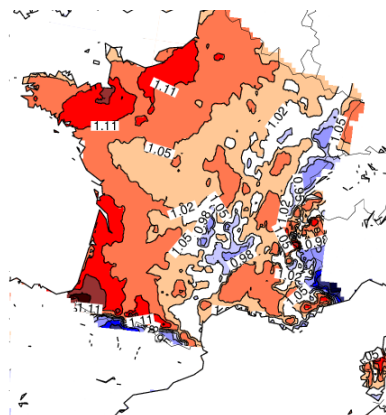
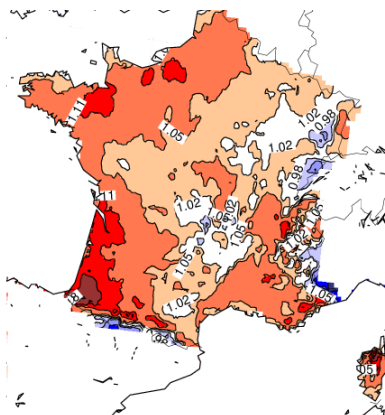
A2

B1

2021-2050



2071-2100



Référence 1961-1990



# Humidité spécifique DJF

2021-2050

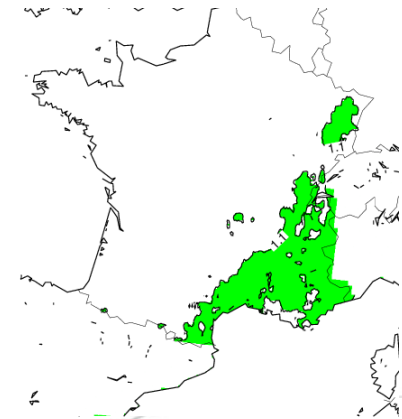
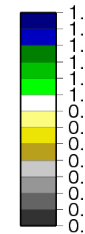
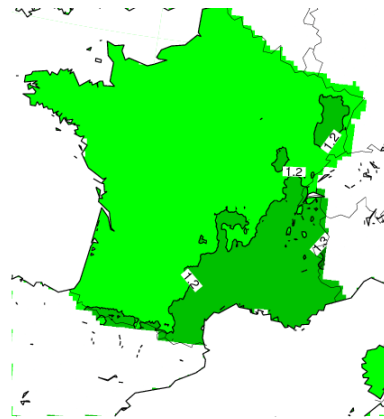
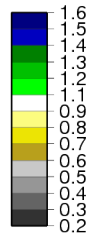
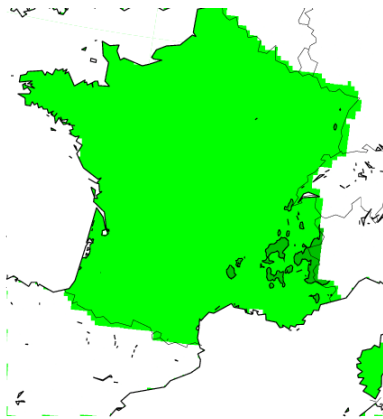
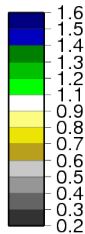
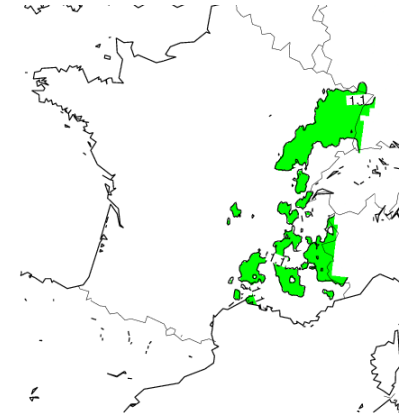
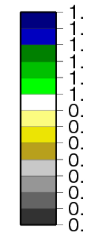
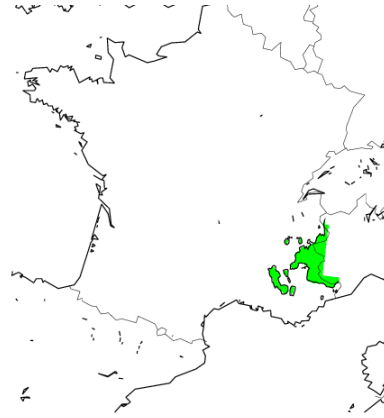
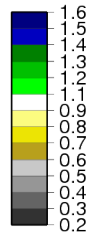
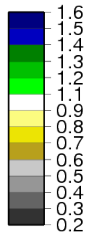
2071-2100

Référence 1961-1990

A1B

A2

B1



# Humidité spécifique JJA

2021-2050

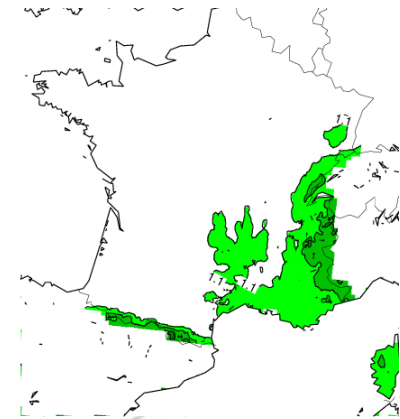
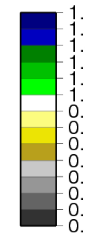
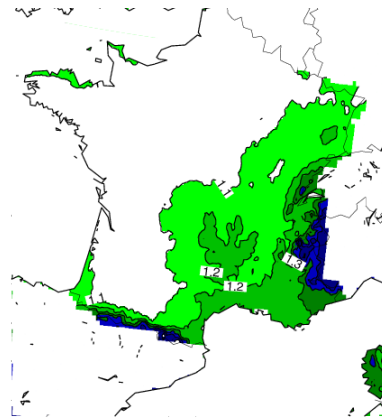
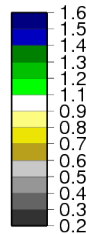
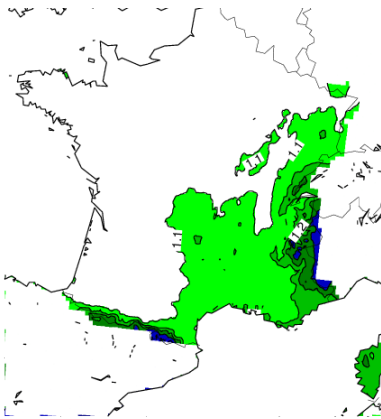
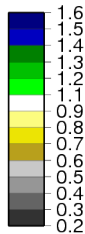
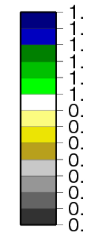
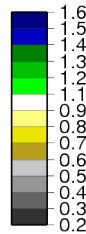
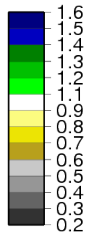
2071-2100

Référence 1961-1990

A1B

A2

B1





# Précipitations DJF

2021-2050

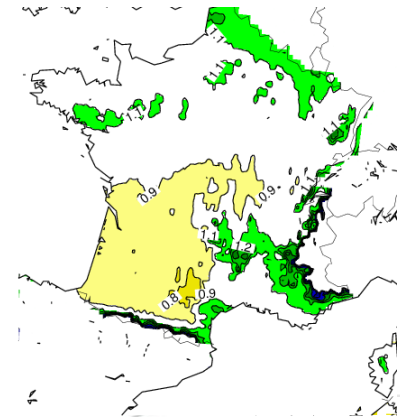
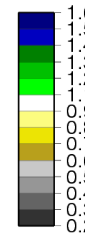
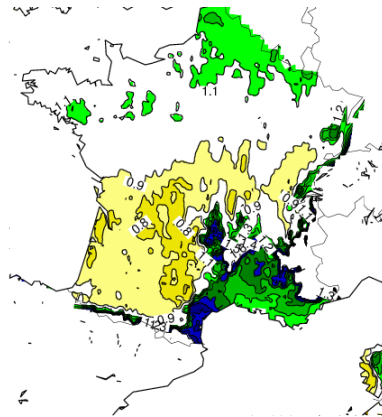
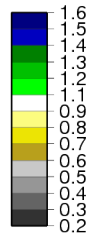
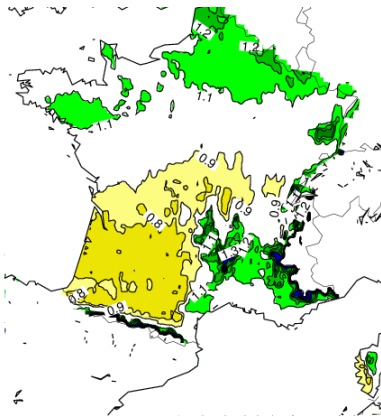
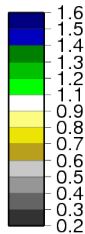
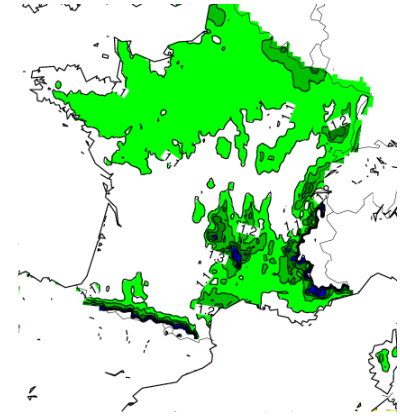
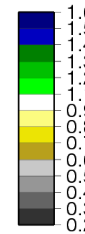
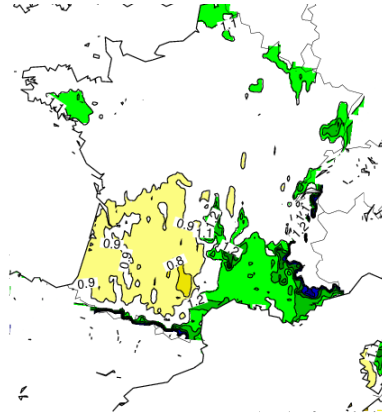
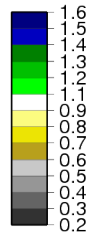
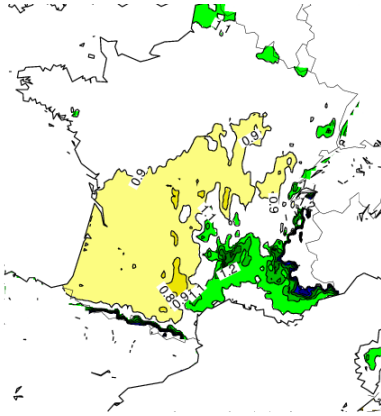
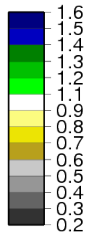
2071-2100

Référence 1961-1990

A1B

A2

B1



# Précipitations JJA

2021-2050

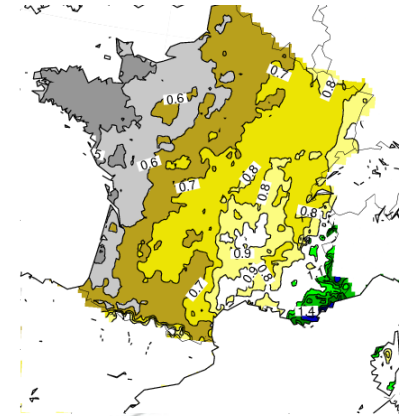
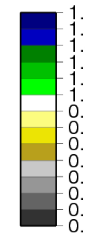
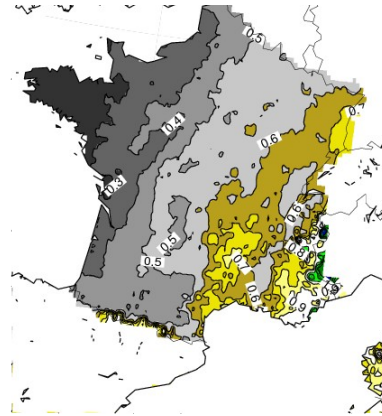
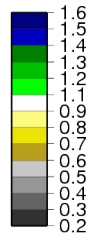
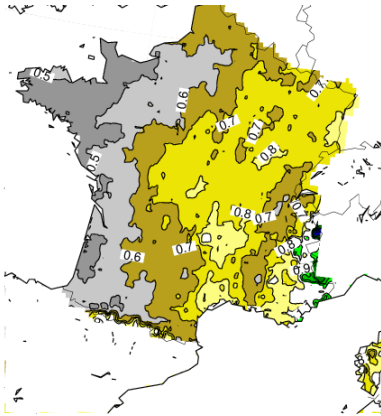
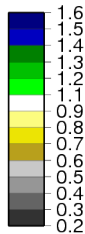
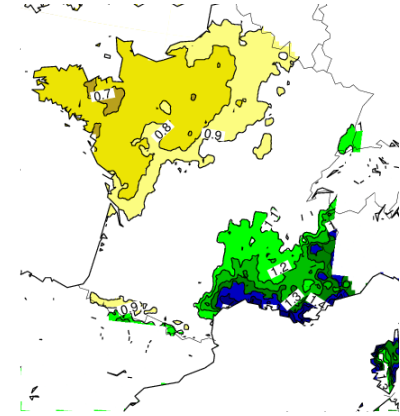
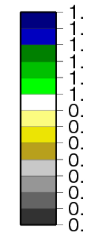
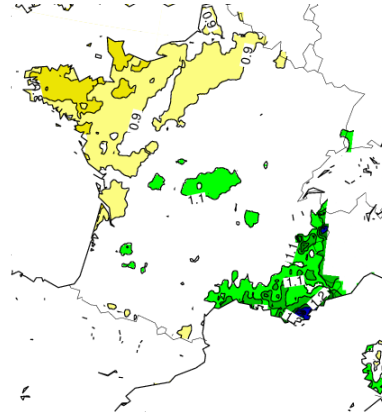
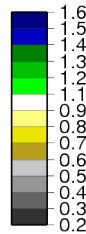
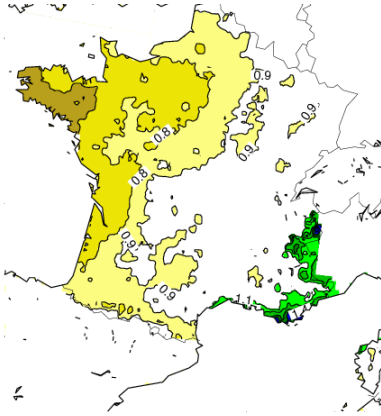
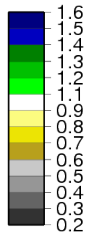
2071-2100

Référence 1961-1990

A1B

A2

B1



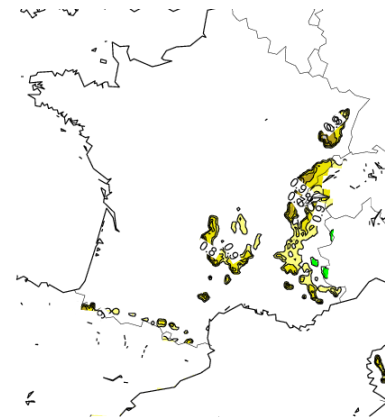
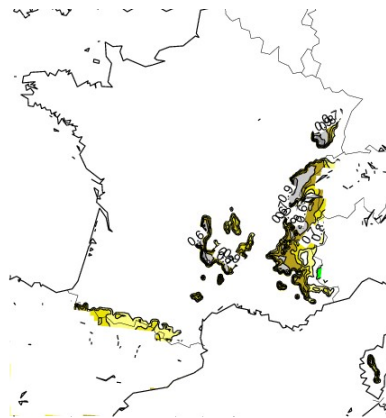
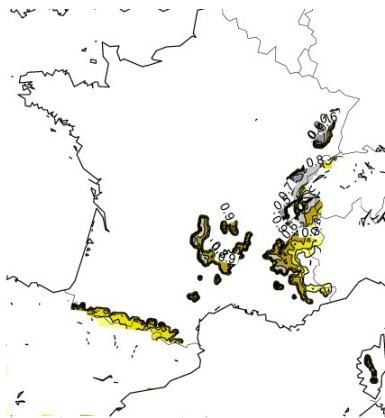
# Neige DJF

A1B

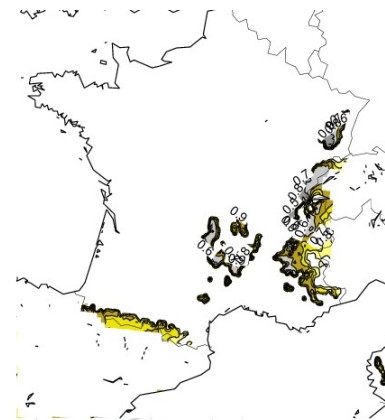
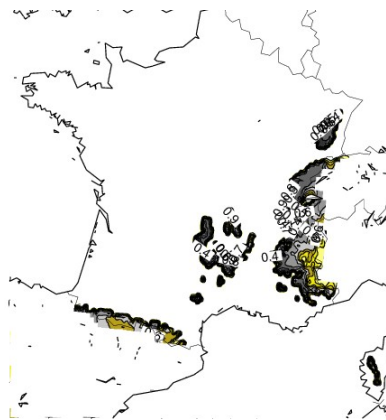
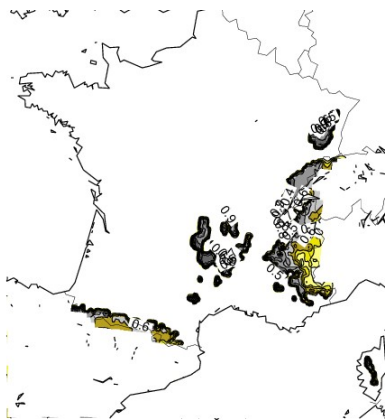
A2

B1

2021-2050



2071-2100



Référence 1961-1990

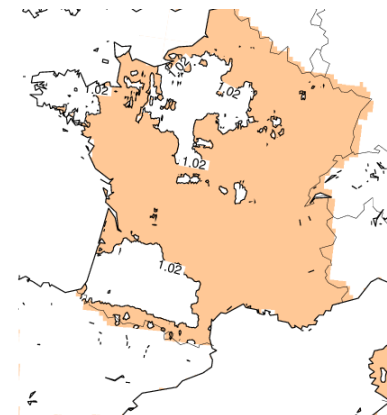
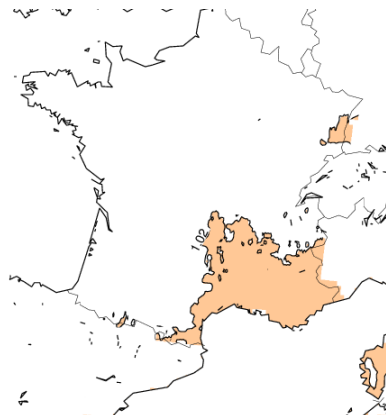
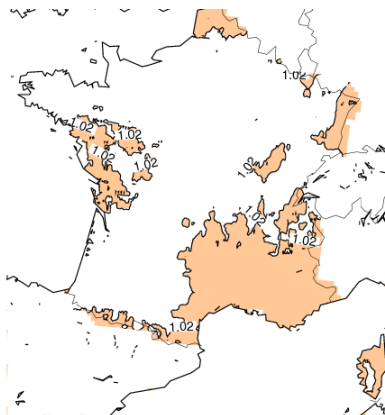
# Rayt. LW descendant DJF

**A1B**

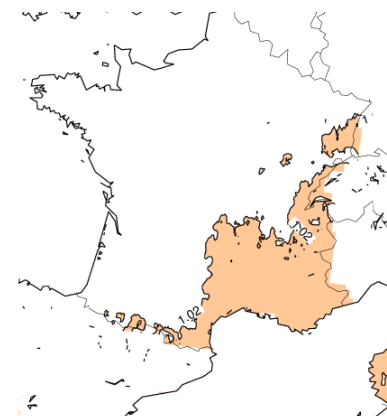
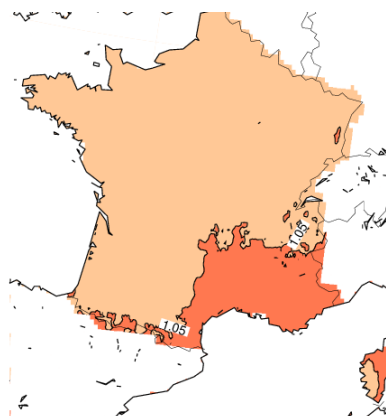
**A2**

**B1**

**2021-2050**



**2071-2100**



**Référence 1961-1990**

# Rayt. LW descendant JJA

2021-2050

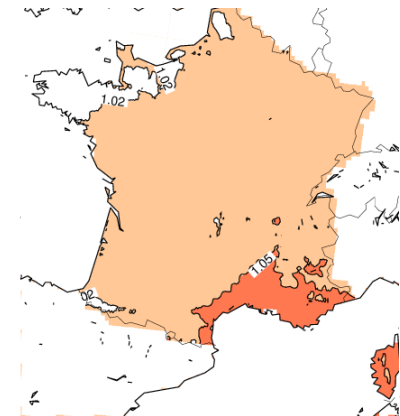
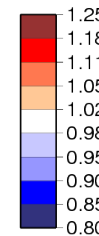
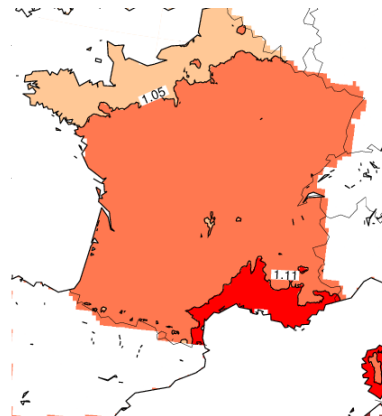
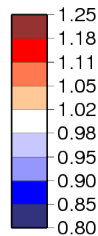
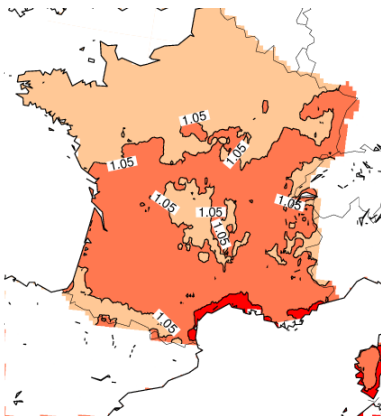
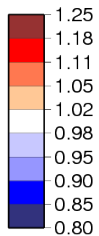
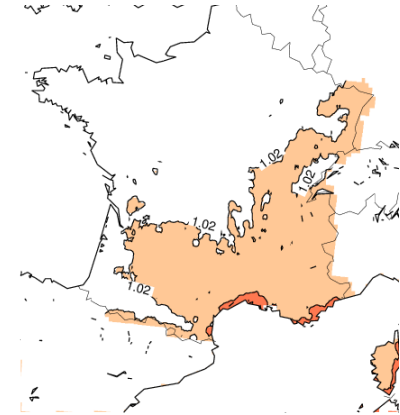
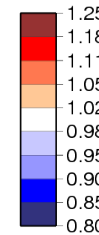
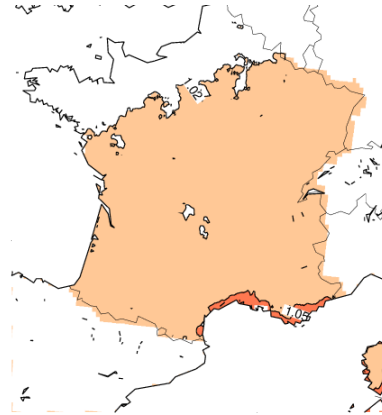
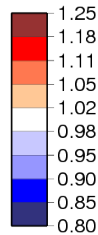
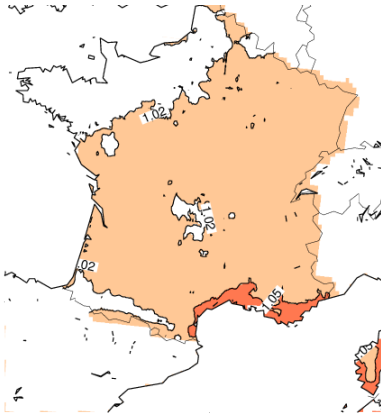
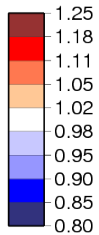
2071-2100

Référence 1961-1990

A1B

A2

B1



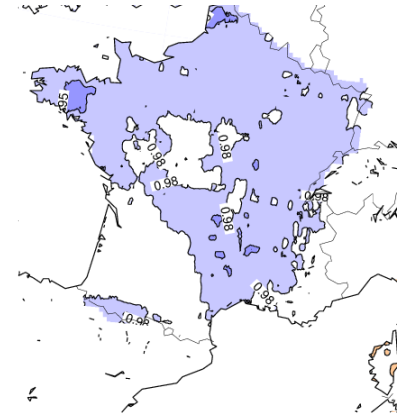
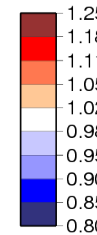
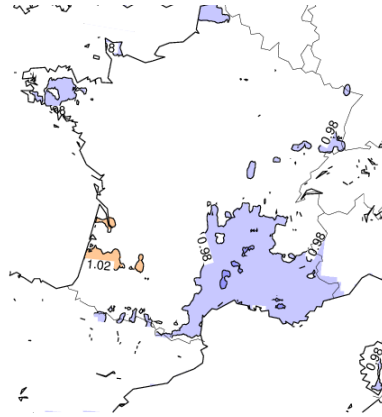
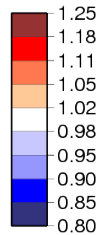
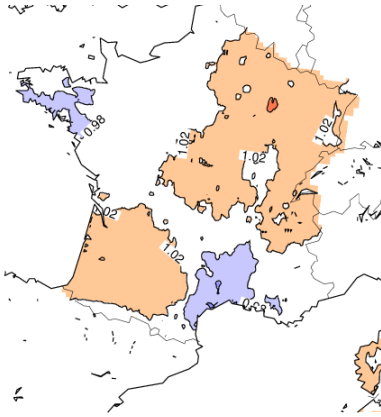
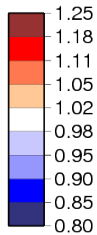
# Rayt. SW descendant DJF

**A1B**

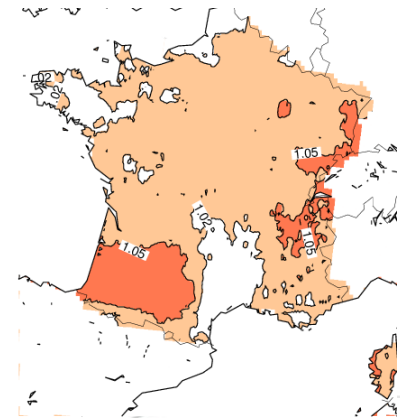
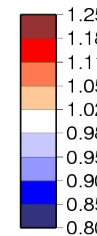
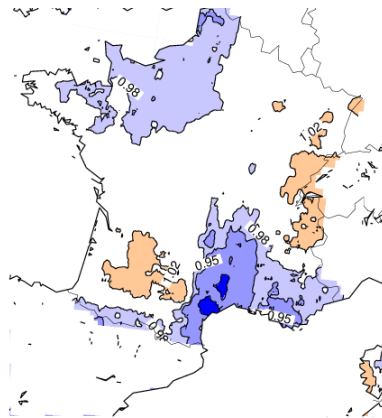
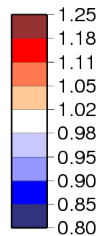
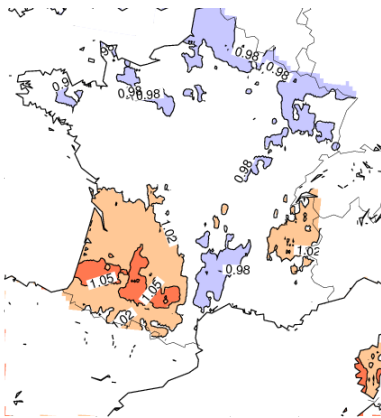
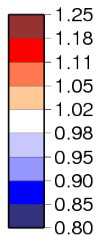
**A2**

**B1**

**2021-2050**



**2071-2100**



**Référence 1961-1990**



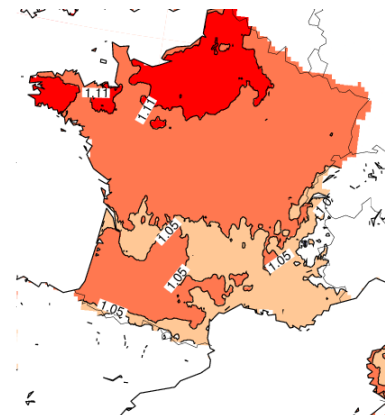
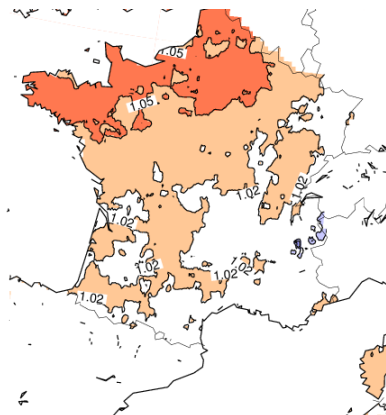
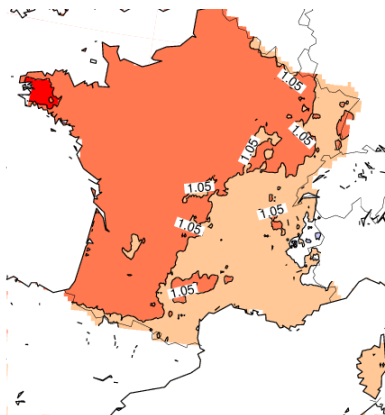
# Rayt. SW descendant JJA

A1B

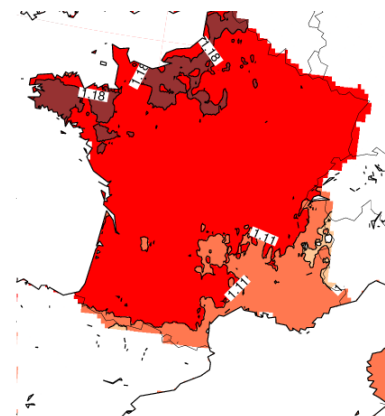
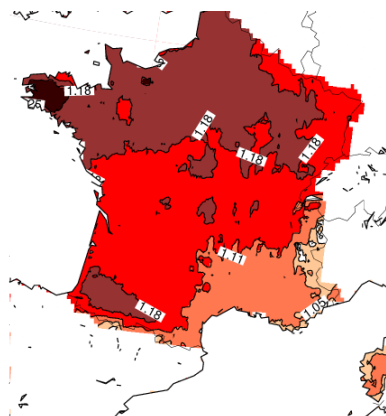
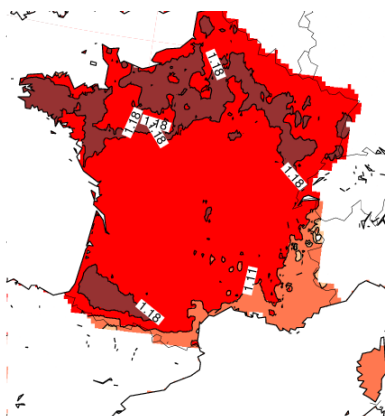
A2

B1

2021-2050



2071-2100



Référence 1961-1990