

réponse
ALADIN vs LMDZ
Grille SAFRAN

Simulations

- Référence :1961-1990
- Scénario A1B : 2021-2050 et 2071-2100
- ALADIN et LMDZ corrigés quantile-quantile vs SAFRAN

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

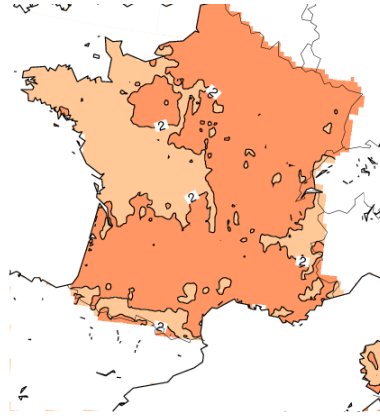
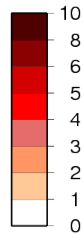
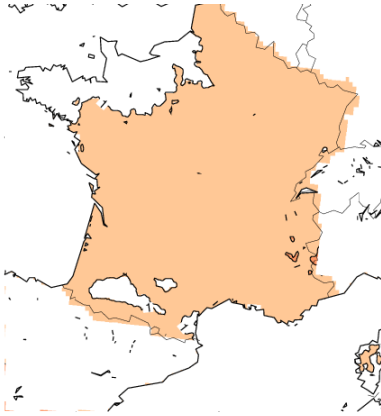
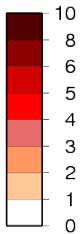
- Préparer les séries quotidiennes ALADIN/LMDZ :
 1. TEMPERATURE MINI
 2. TEMPERATURE MAXI
 3. VENT MOYEN
 4. VENT MAXI (RAFALES)
 5. HUMIDITE SPECIFIQUE
 6. PRECIPITATIONS
 7. CHUTE DE NEIGE
 8. RAYONNEMENT INFRAROUGE DESCENDANT
 9. RAYONNEMENT SOLAIRE DESCENDANT
- Passer de 6h/2h à quotidien et de 6341/2565 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

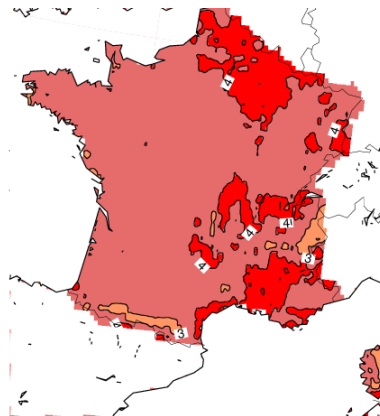
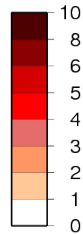
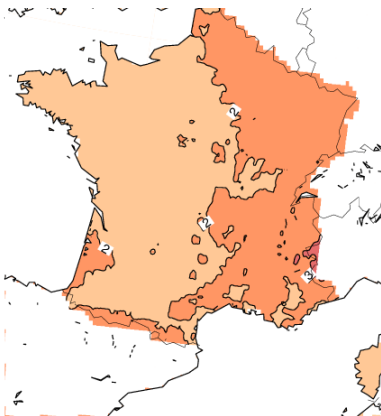
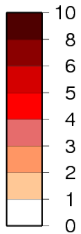
ALADIN

LMDZ

2021-2050



2071-2100



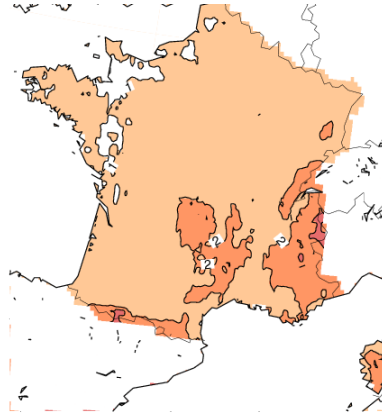
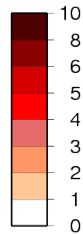
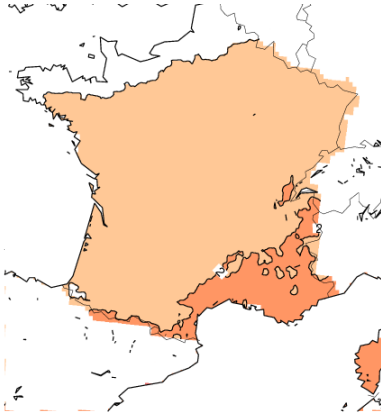
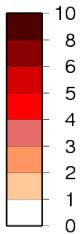
Référence 1961-1990

Température minimale JJA

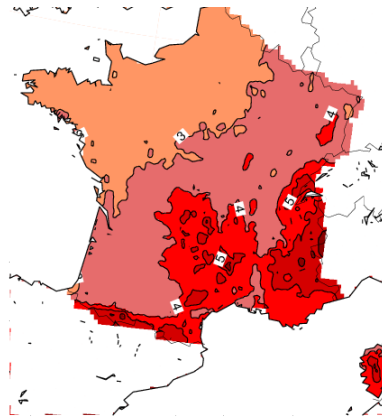
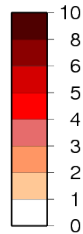
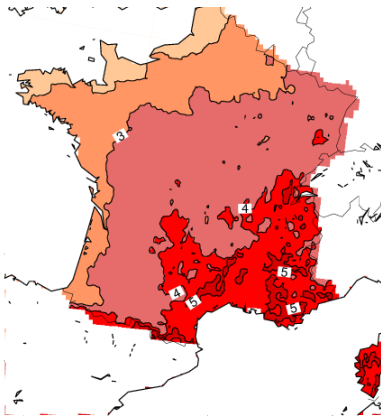
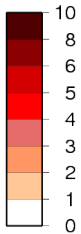
ALADIN

LMDZ

2021-2050



2071-2100



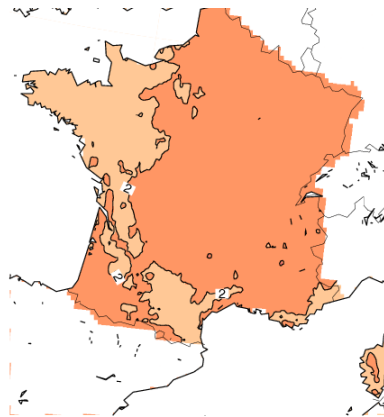
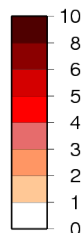
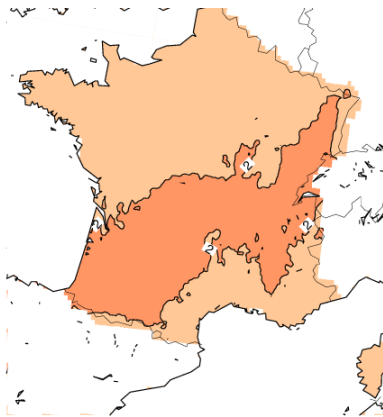
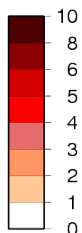
Référence 1961-1990

Température maximale DJF

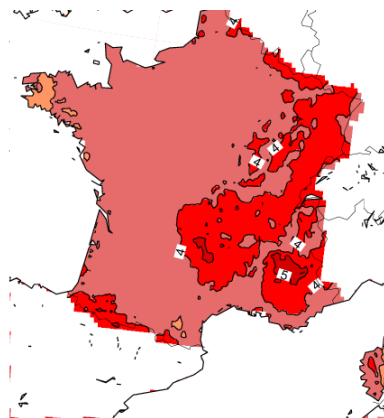
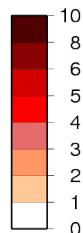
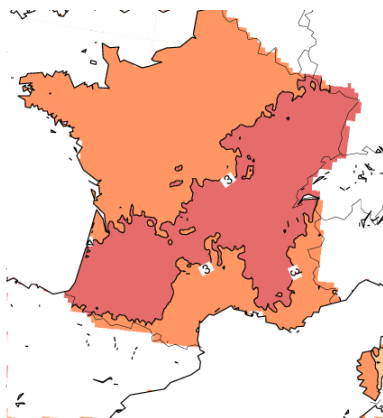
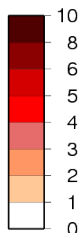
ALADIN

LMDZ

2021-2050



2071-2100



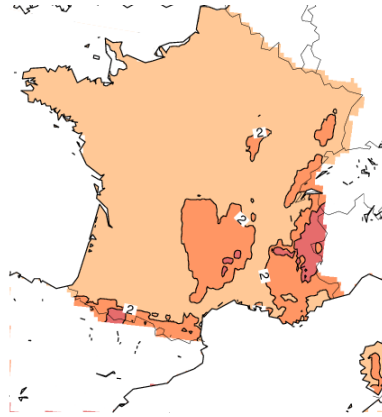
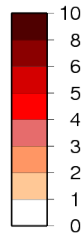
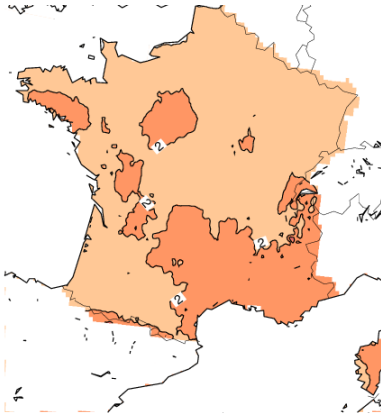
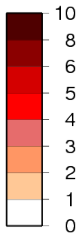
Référence 1961-1990

Température maximale JJA

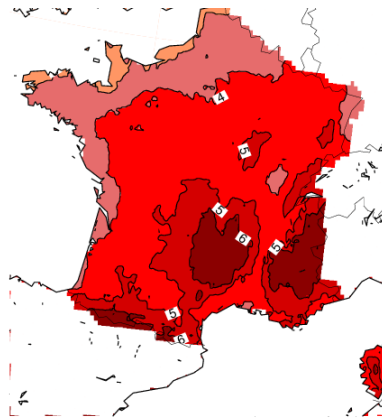
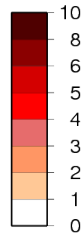
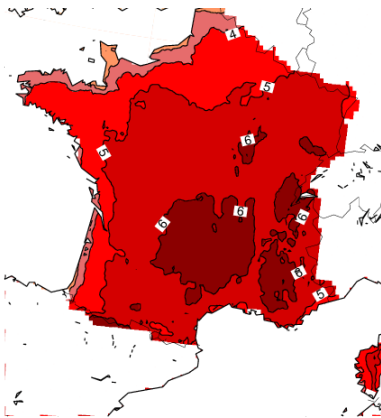
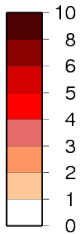
ALADIN

LMDZ

2021-2050



2071-2100



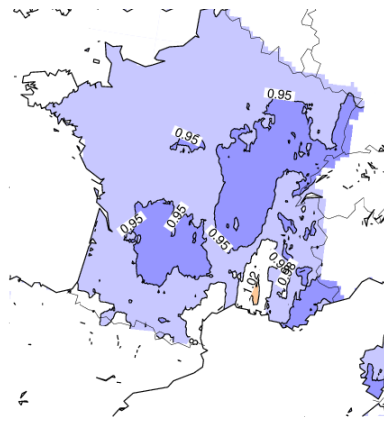
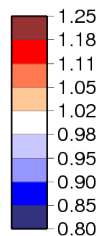
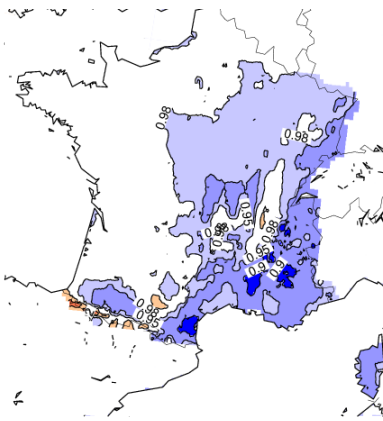
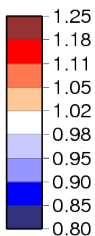
Référence 1961-1990

Vent moyen DJF

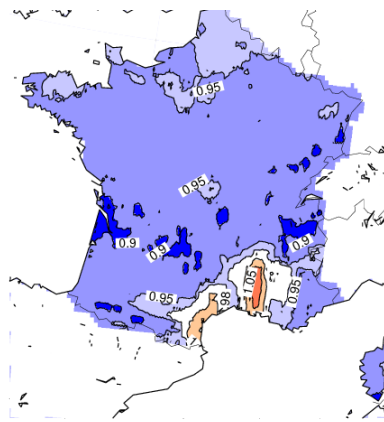
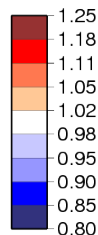
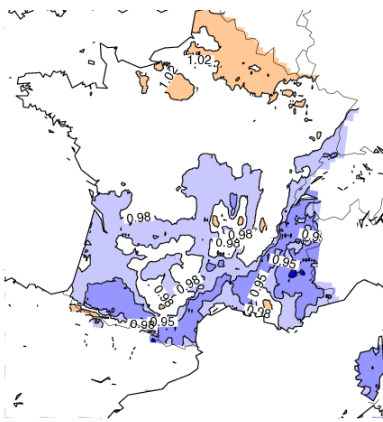
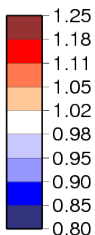
ALADIN

LMDZ

2021-2050



2071-2100



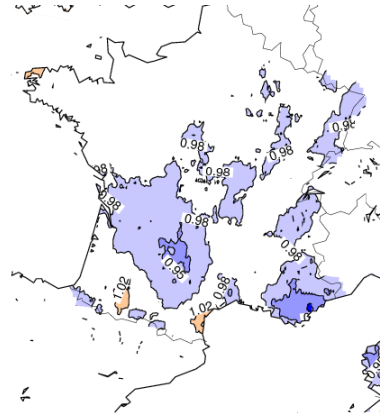
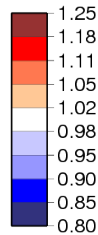
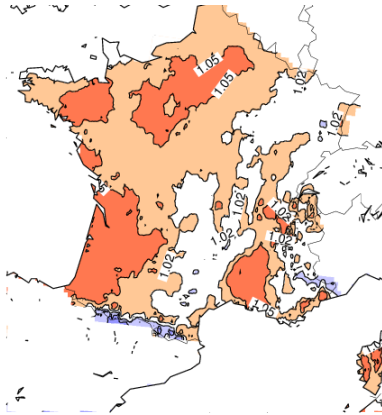
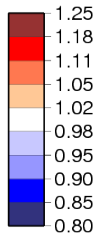
Référence 1961-1990

Vent moyen JJA

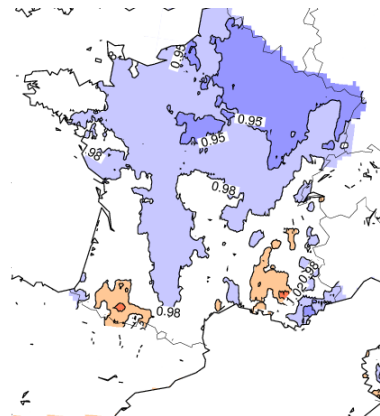
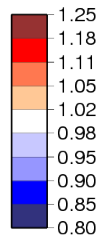
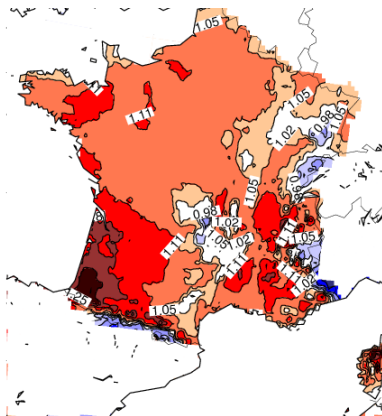
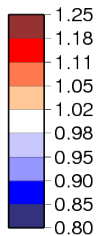
ALADIN

LMDZ

2021-2050



2071-2100



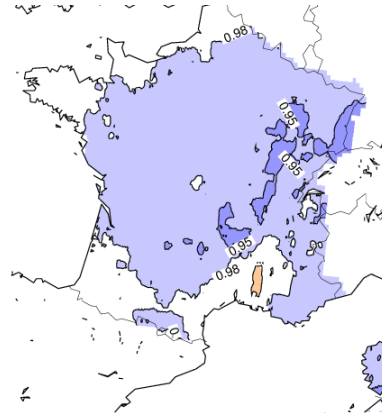
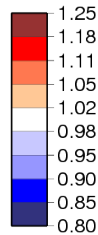
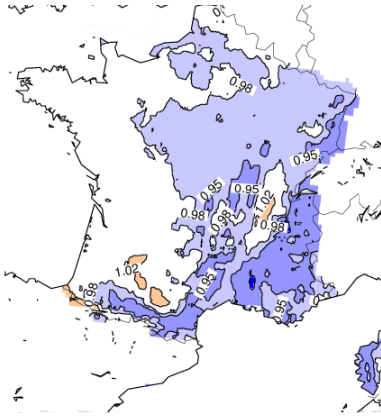
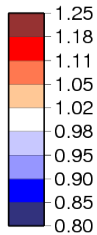
Référence 1961-1990

Vent maximum DJF

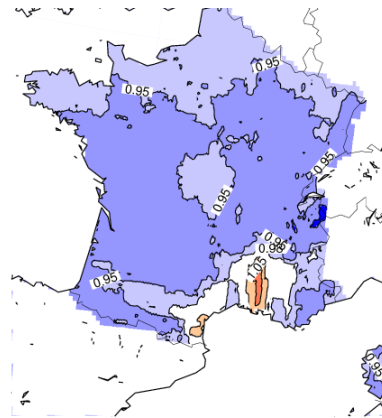
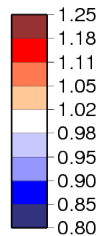
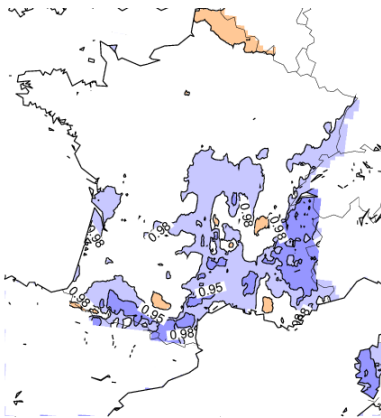
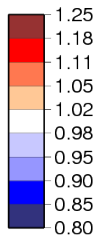
ALADIN

LMDZ

2021-2050



2071-2100



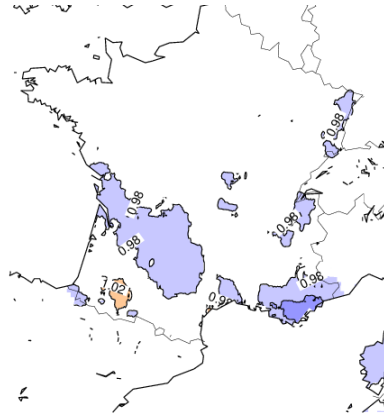
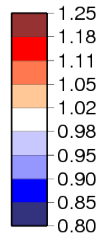
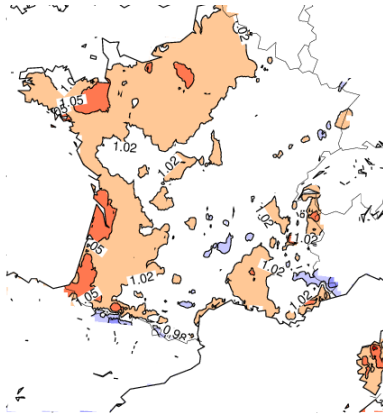
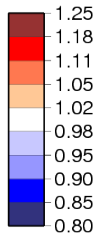
Référence 1961-1990

Vent maximum JJA

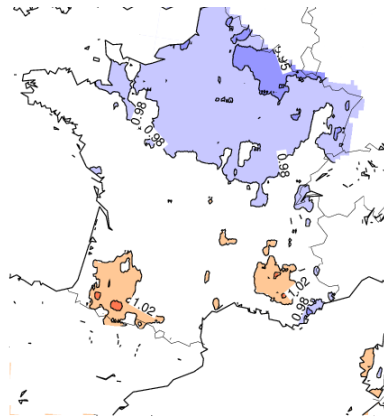
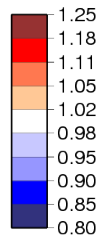
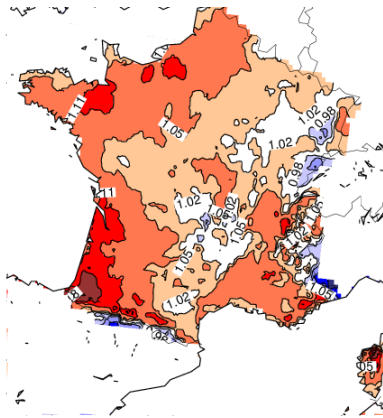
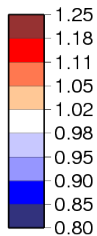
ALADIN

LMDZ

2021-2050



2071-2100



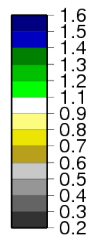
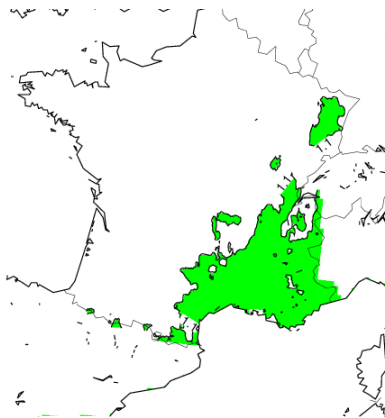
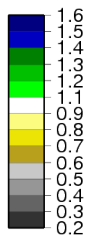
Référence 1961-1990

Humidité spécifique DJF

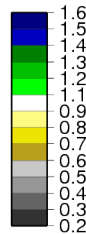
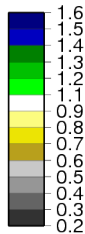
ALADIN

LMDZ

2021-2050



2071-2100



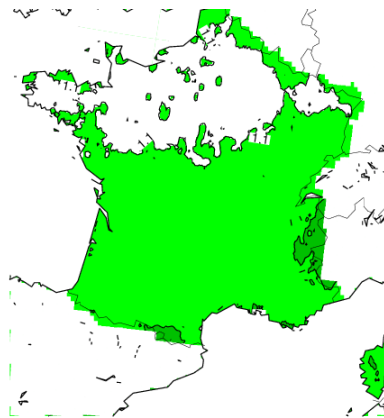
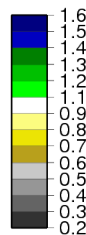
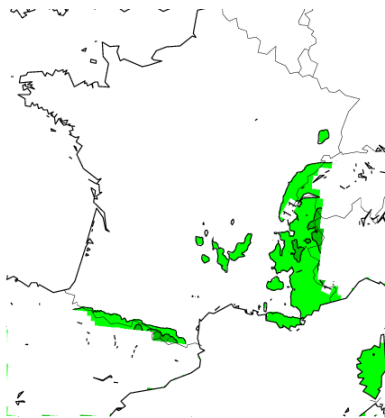
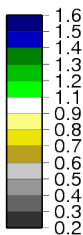
Référence 1961-1990

Humidité spécifique JJA

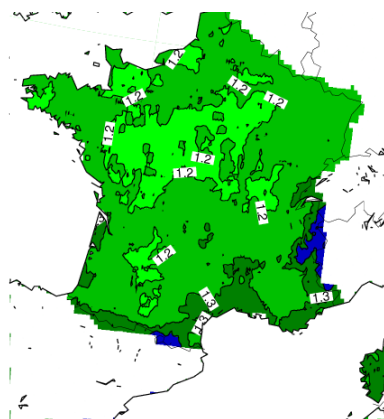
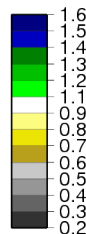
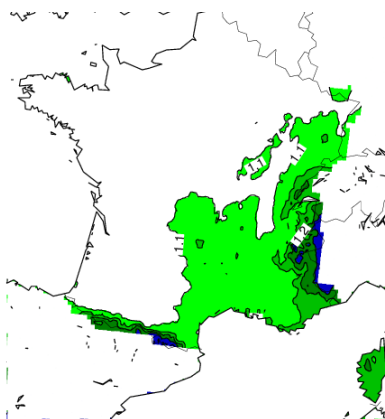
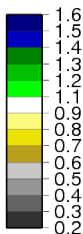
ALADIN

LMDZ

2021-2050



2071-2100



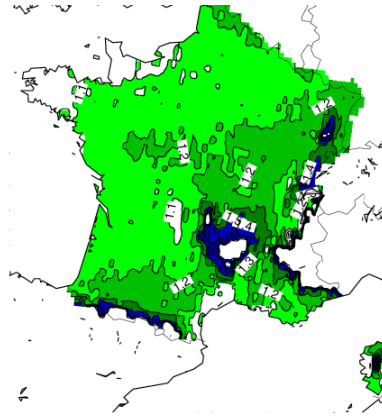
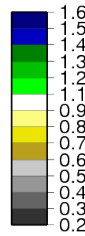
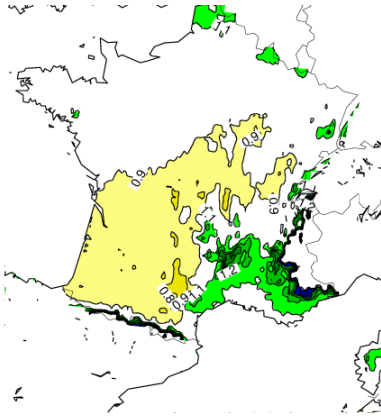
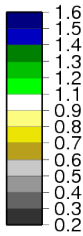
Référence 1961-1990

Précipitations DJF

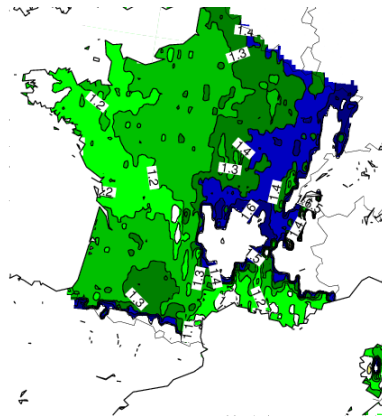
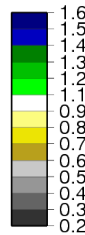
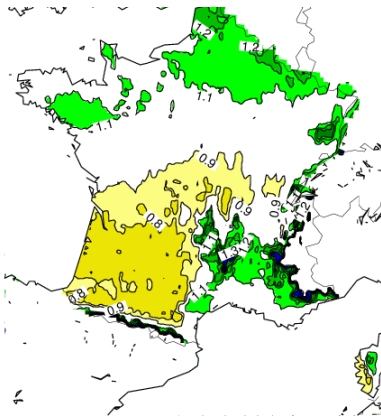
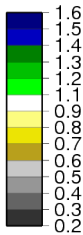
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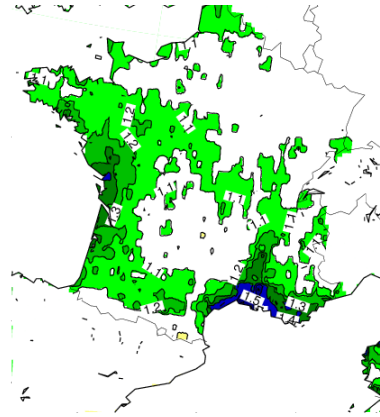
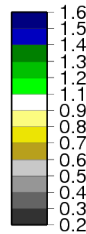
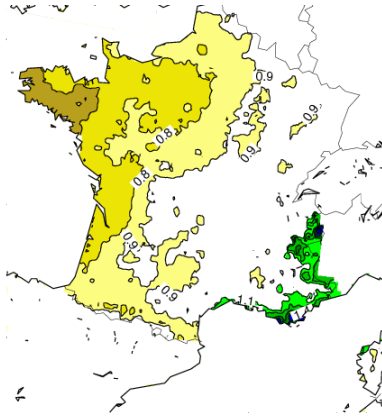
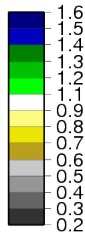
Référence 1961-1990

Précipitations JJA

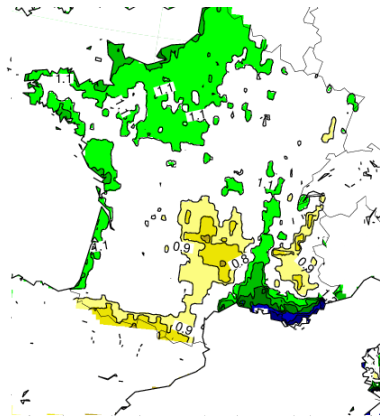
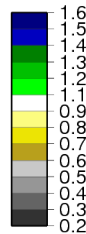
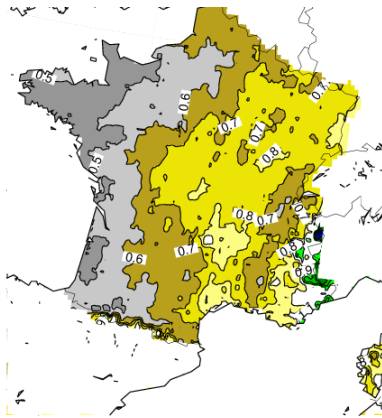
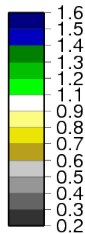
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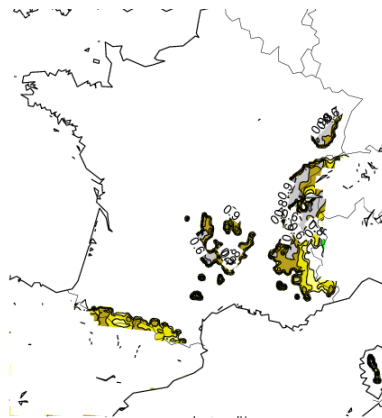
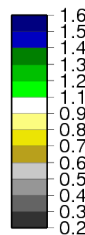
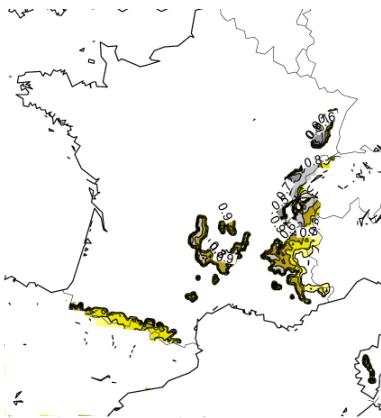
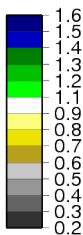
Référence 1961-1990

Neige DJF

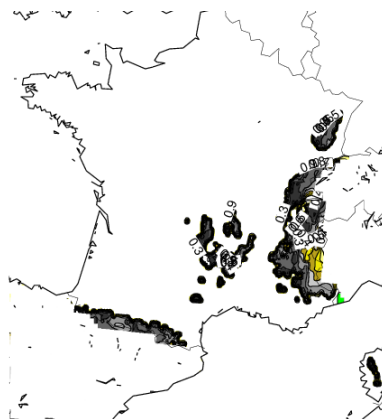
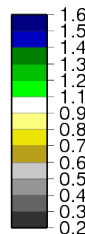
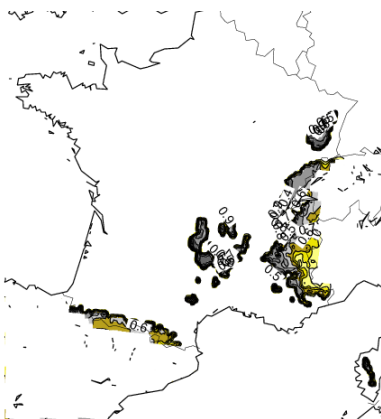
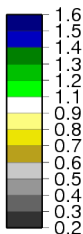
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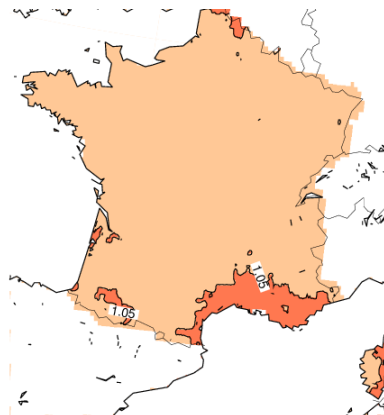
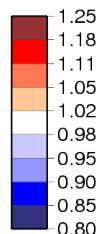
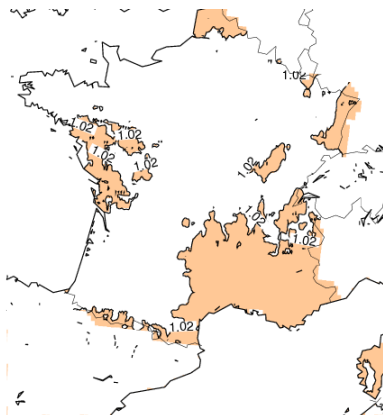
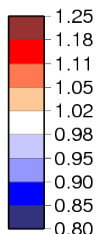
Référence 1961-1990

Rayt. LW descendant DJF

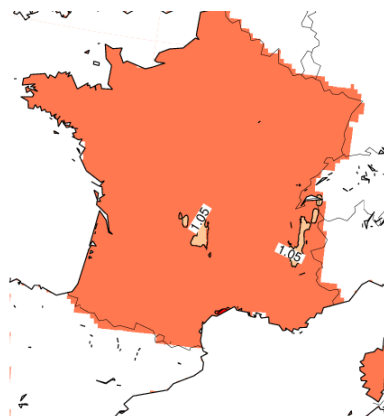
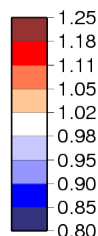
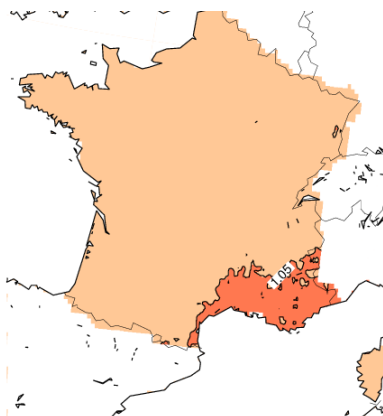
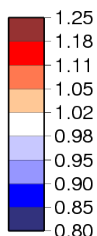
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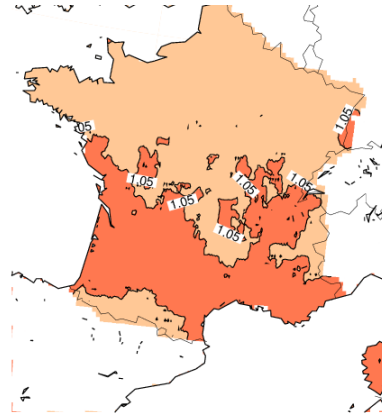
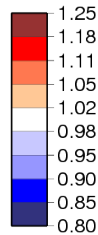
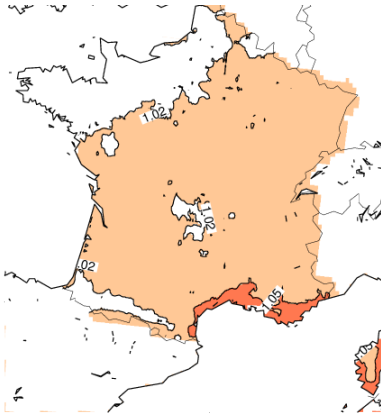
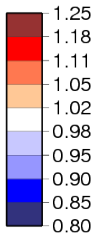
Référence 1961-1990

Rayt. LW descendant JJA

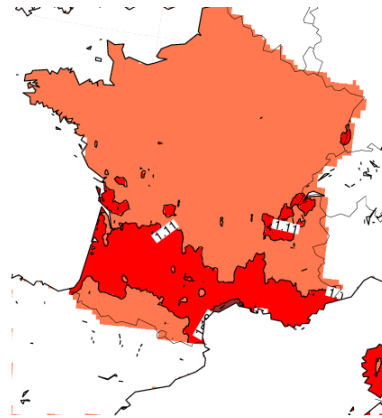
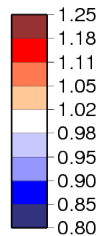
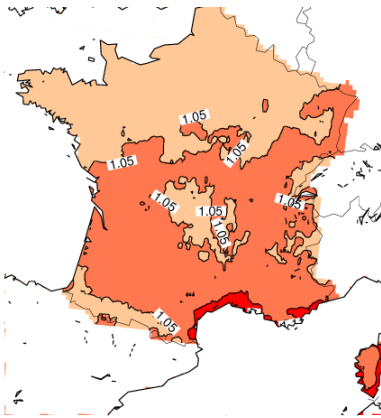
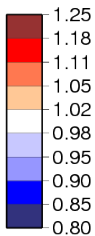
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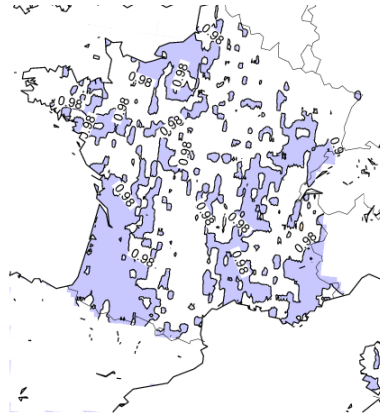
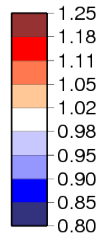
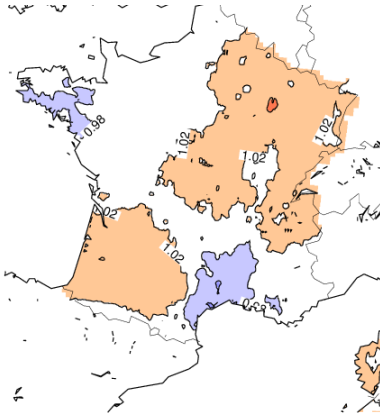
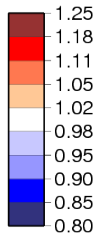
Référence 1961-1990

Rayt. SW descendant DJF

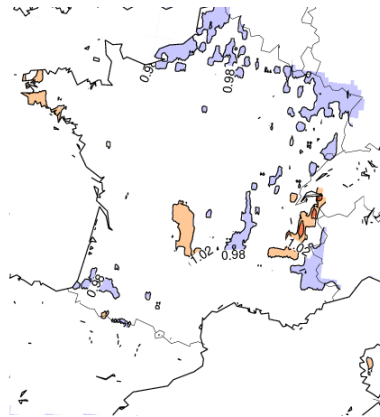
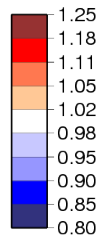
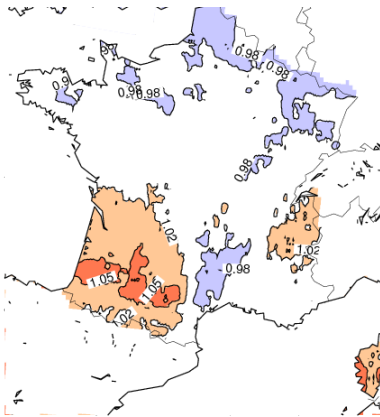
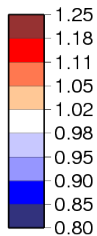
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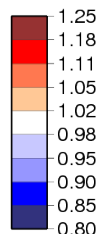
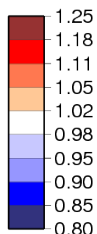
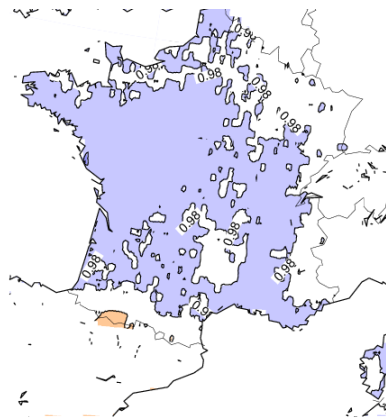
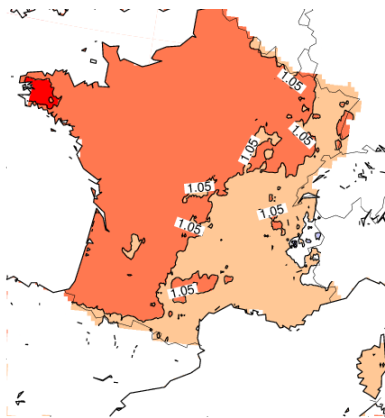
Référence 1961-1990

Rayt. SW descendant JJA

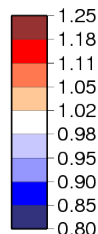
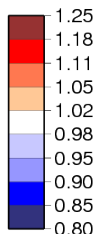
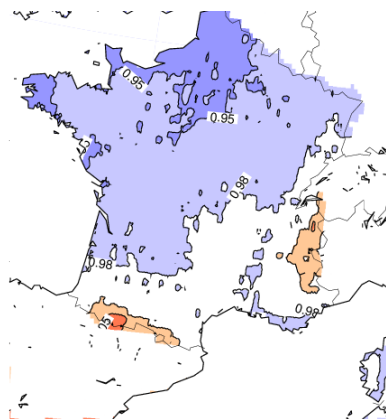
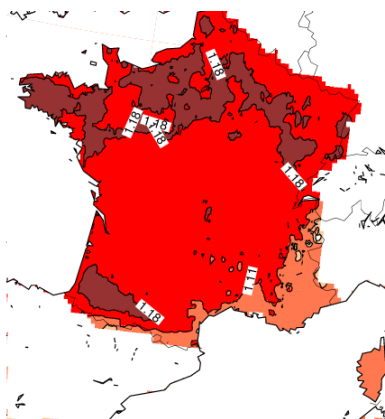
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Référence 1961-1990