

Quelles évolutions climatiques attendues ?

Prédictions et incertitudes

Michel Déqué
Météo-France, Toulouse

Les scénarios du GIEC

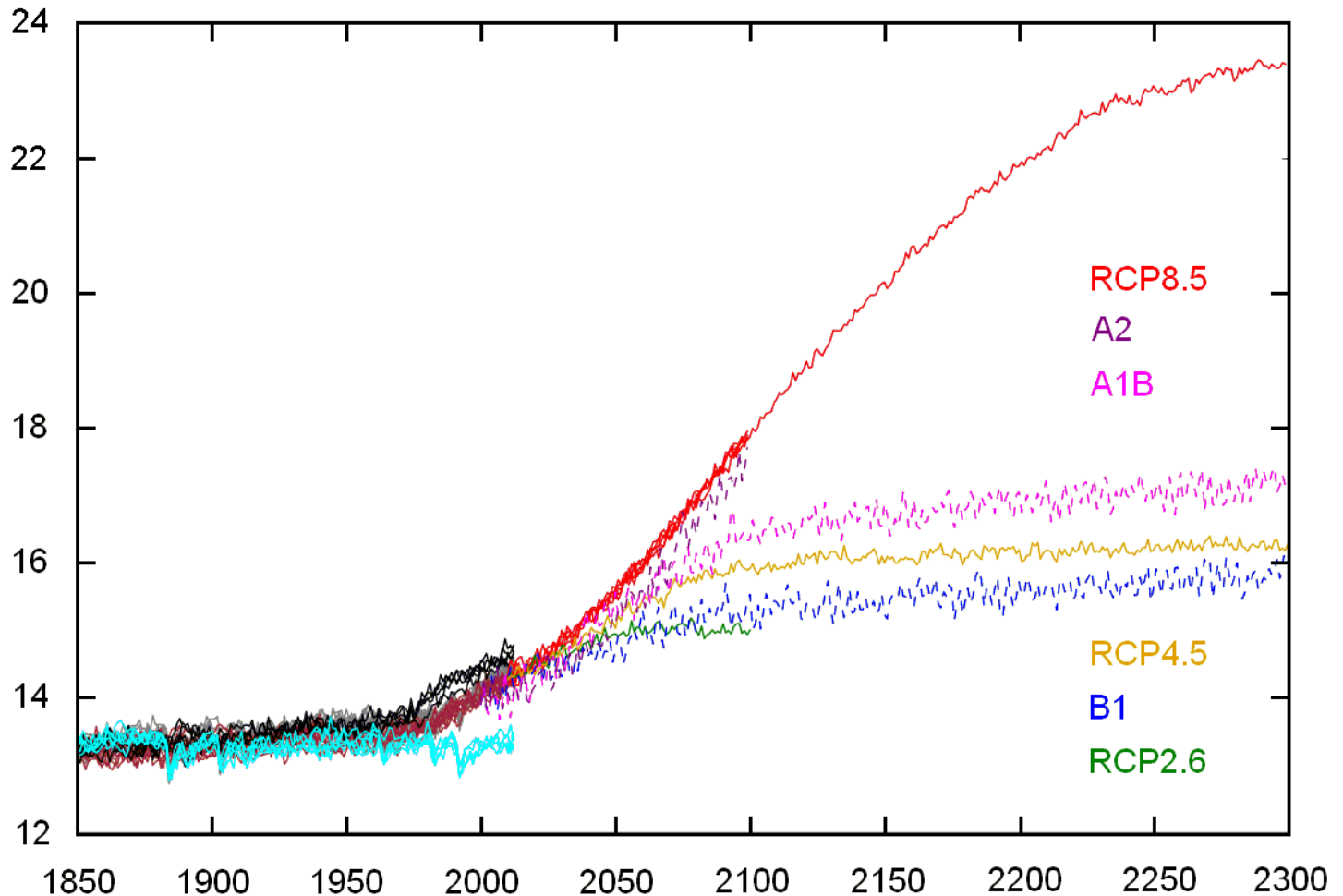
Température moyenne annuelle planétaire (°C)

GIEC 2007 :

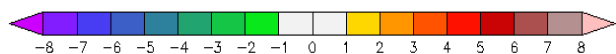
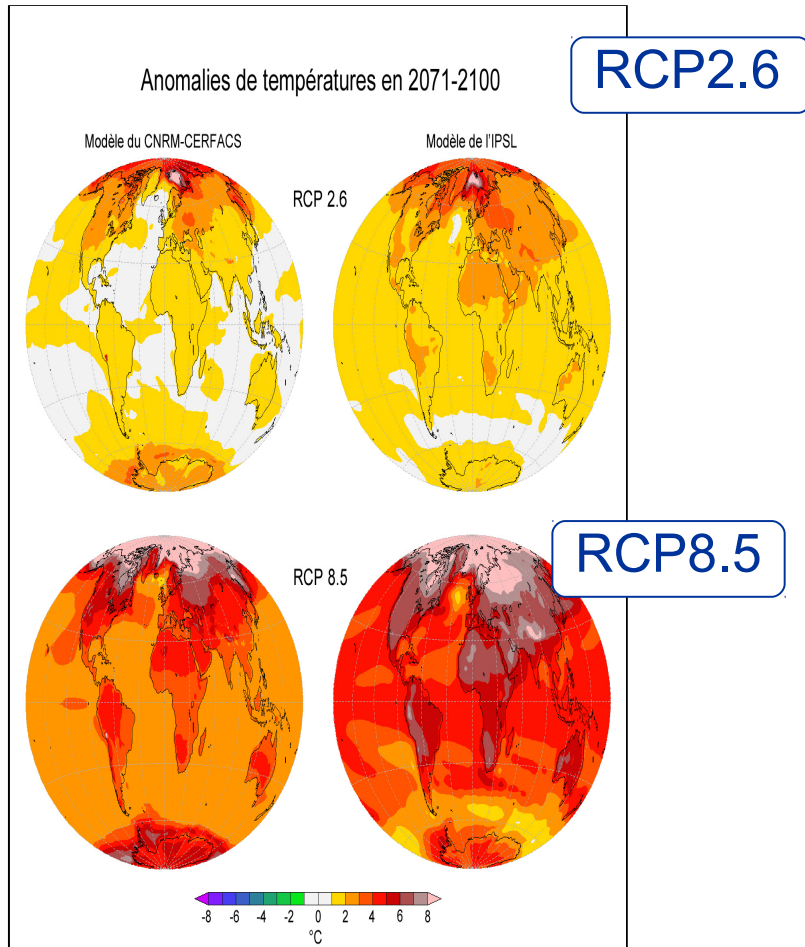
A2
A1B
B1

GIEC 2014 :

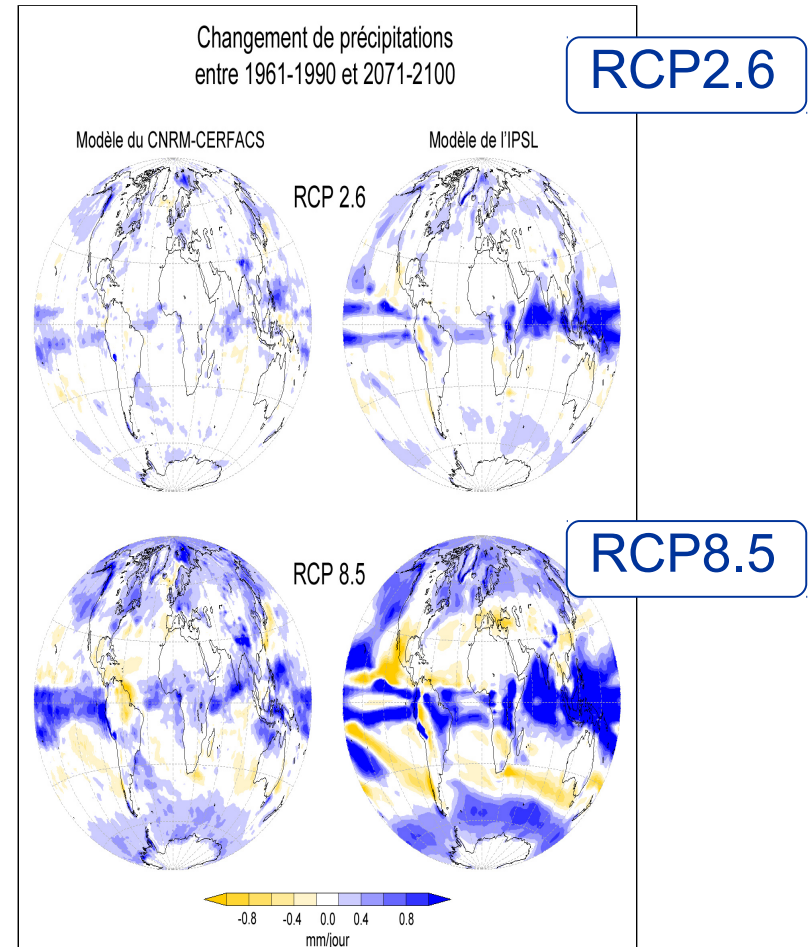
RCP8.5
RCP4.5
RCP2.6



Réponse moyenne annuelle 2071-2100



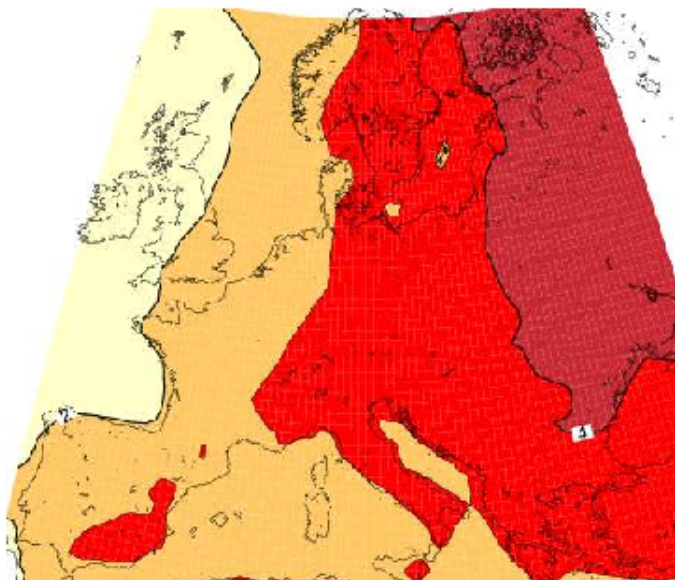
Température



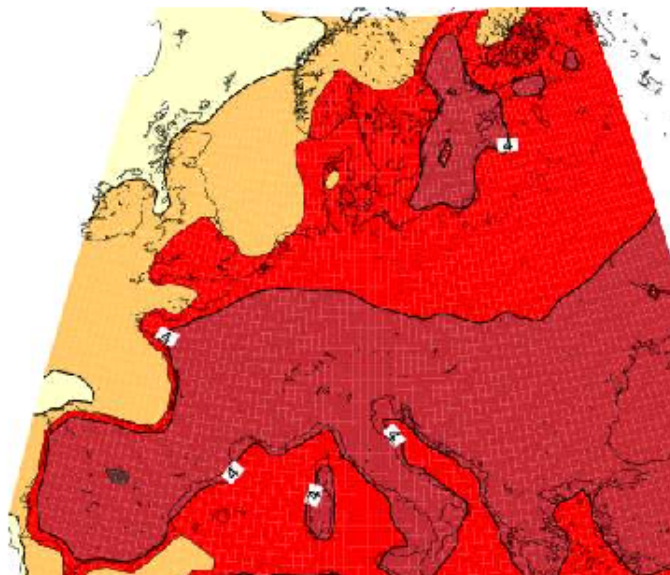
Précipitations

Changement moyen de température 2071-2100

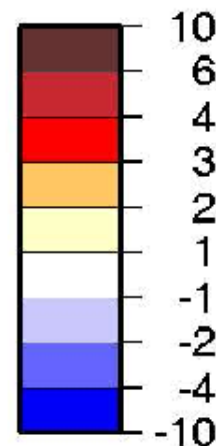
Hiver



Eté

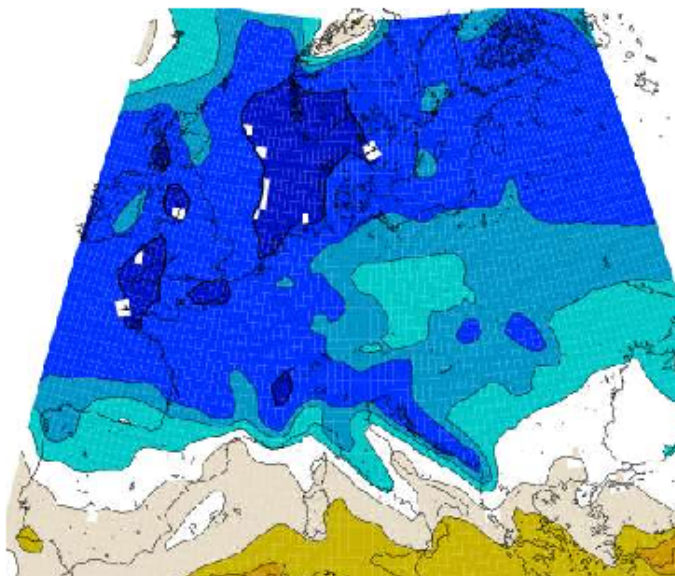


°C

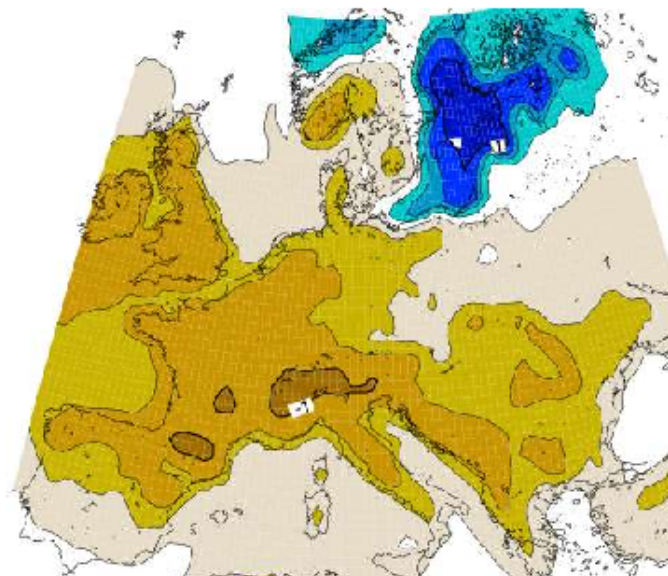


Changement moyen de précipitations 2071-2100

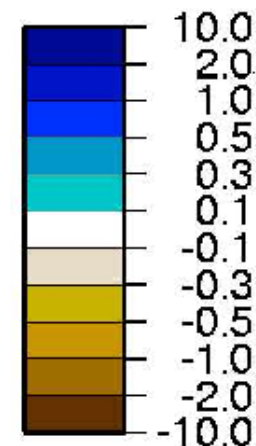
Hiver



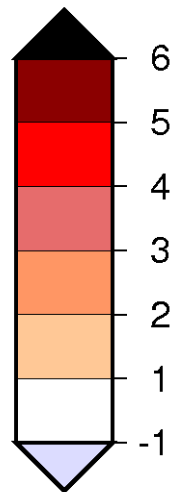
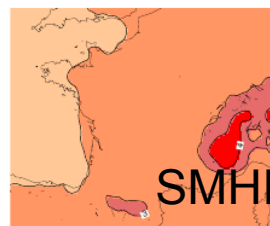
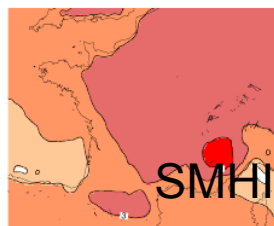
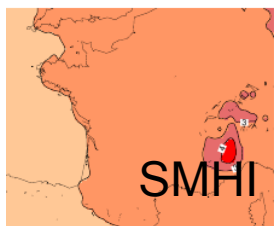
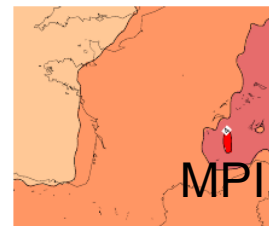
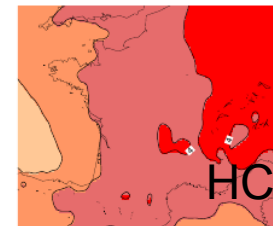
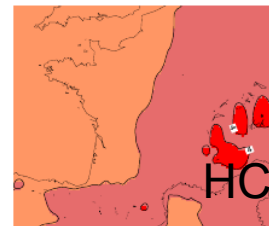
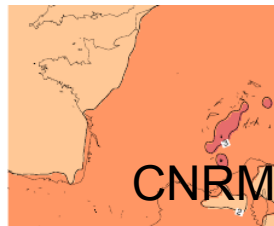
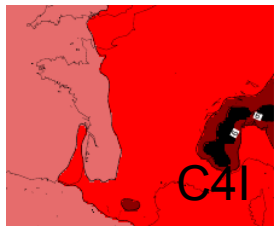
Eté



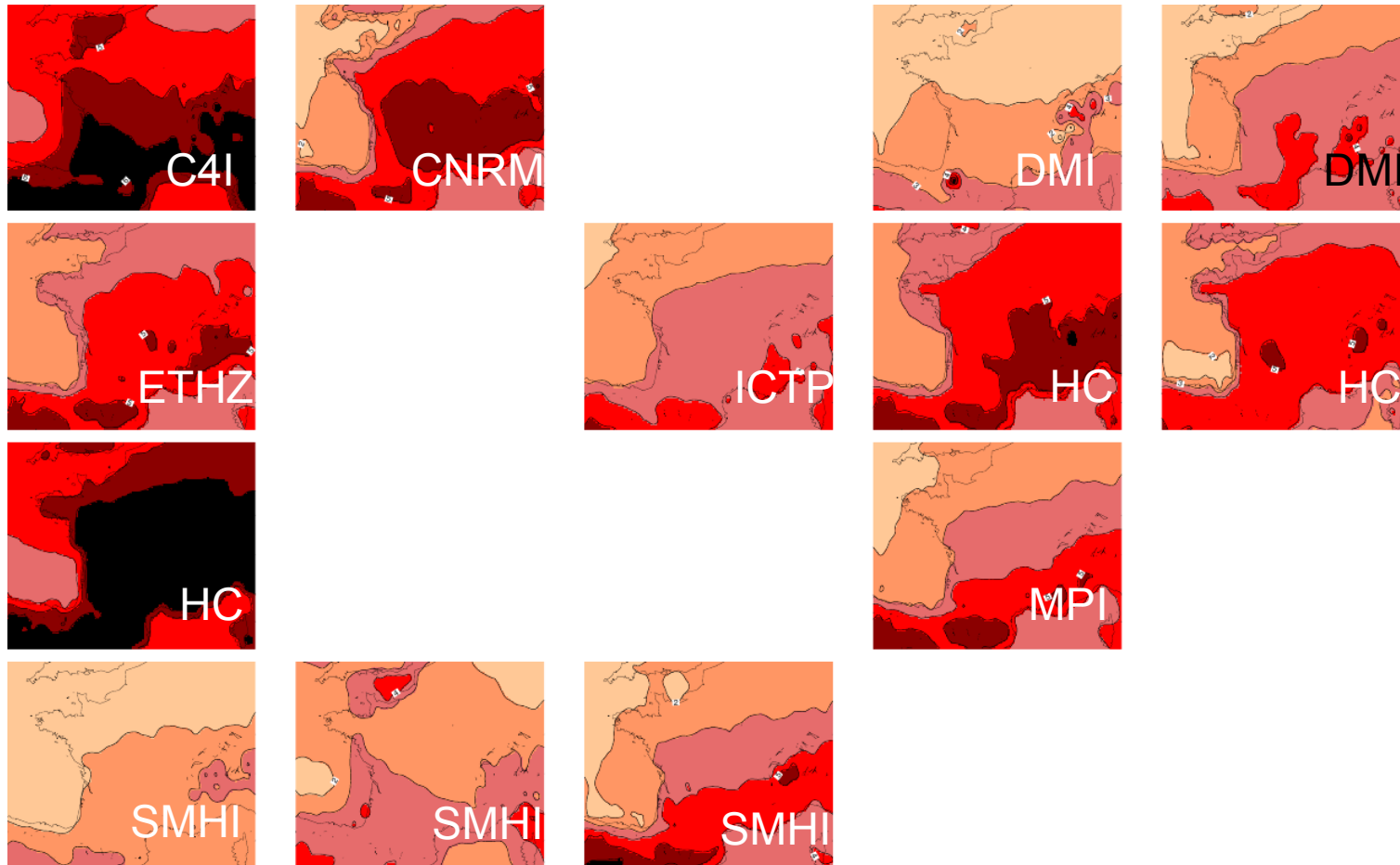
mm/jour



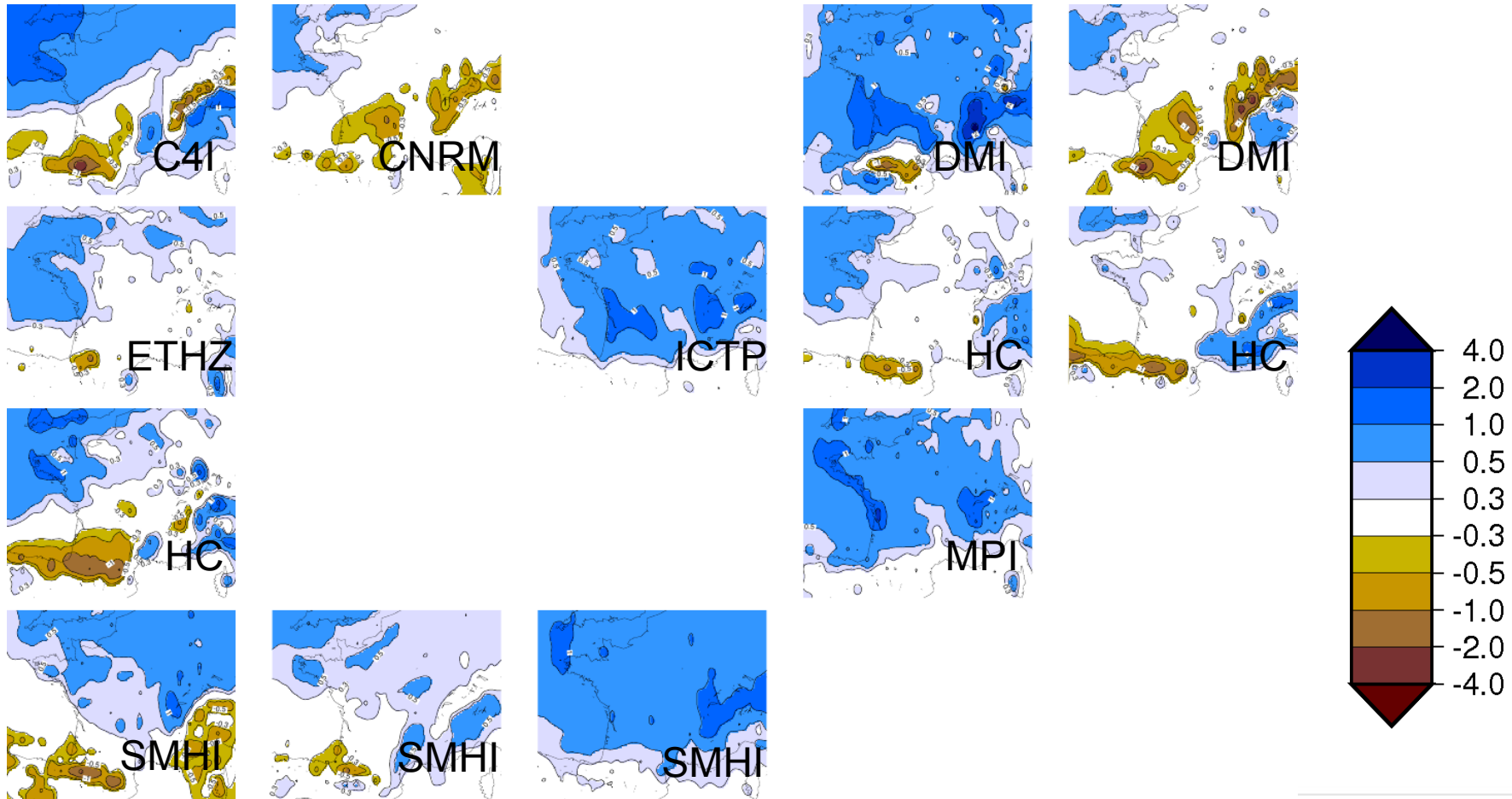
Réponse température hiver 2071-2100



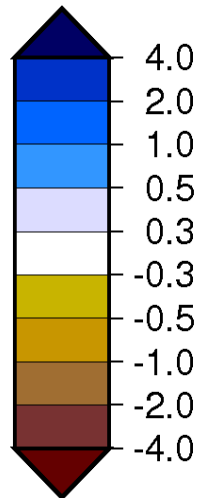
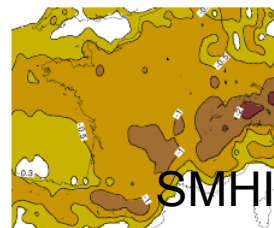
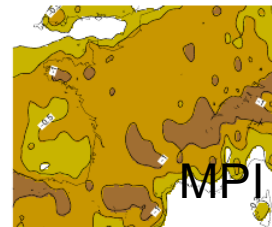
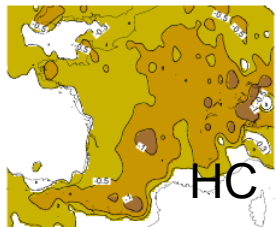
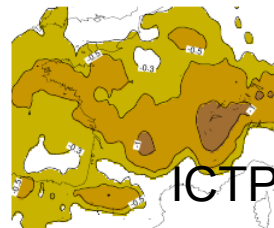
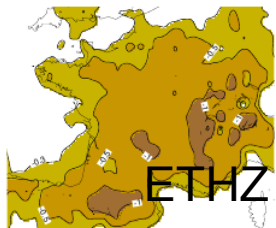
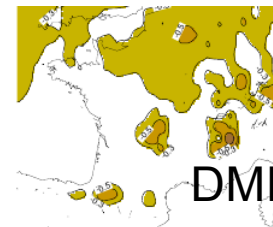
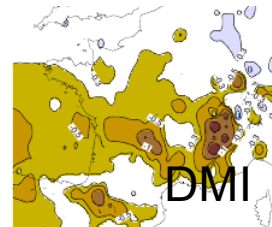
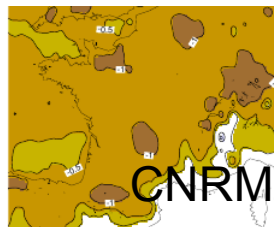
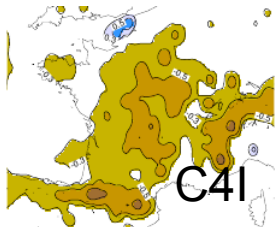
Réponse température été 2071-2100



Réponse précipitations hiver 2071-2100



Réponse précipitations été 2071-2100

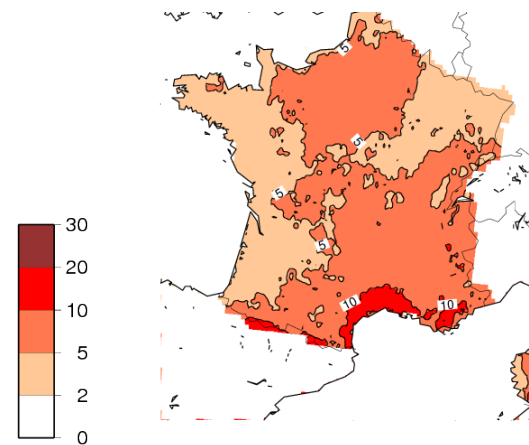
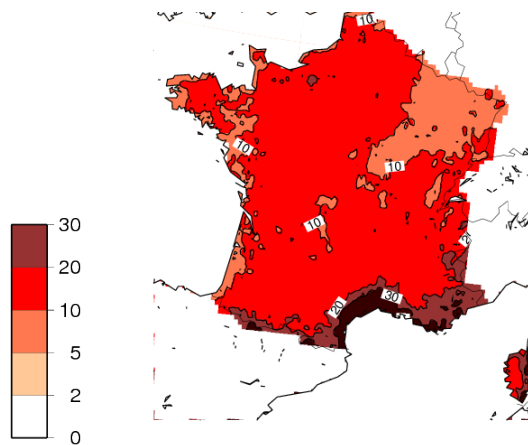
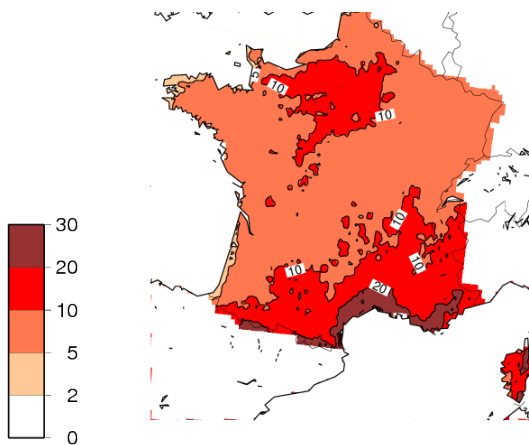


Nombre de jours de canicule 2071-2100

A1B

A2

B1

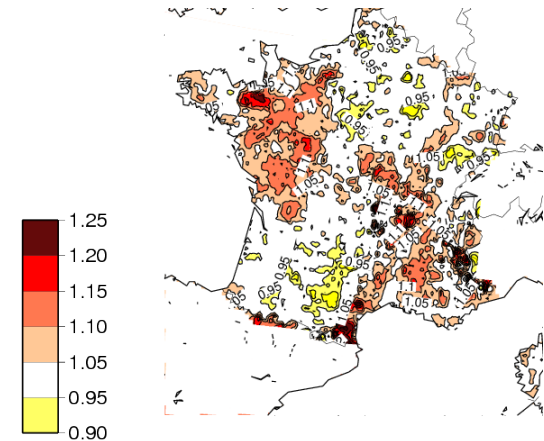
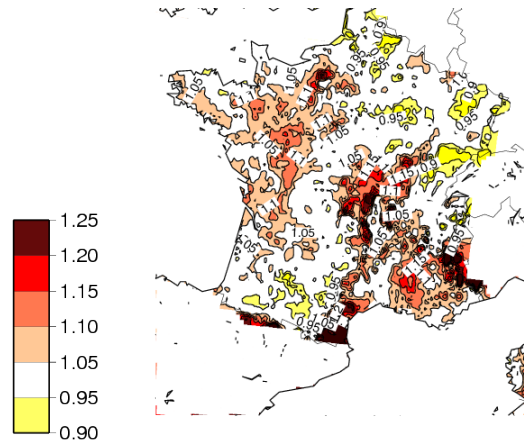
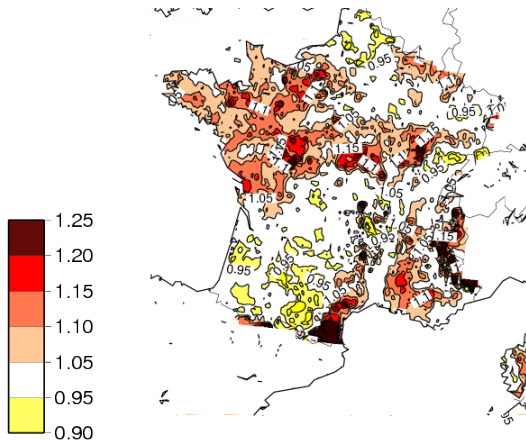


Précipitations : jours >20 mm en hiver

A1B

A2

B1

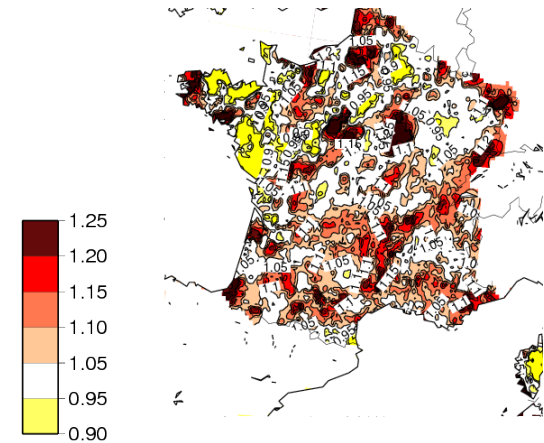
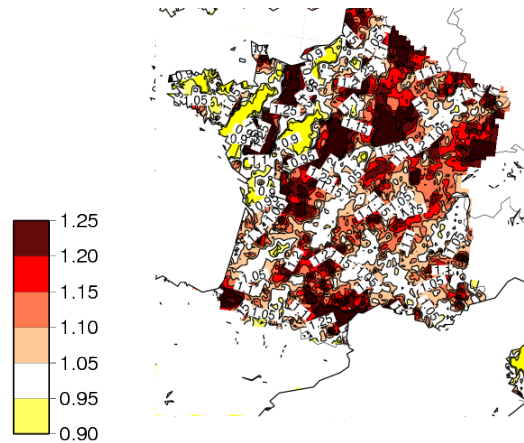
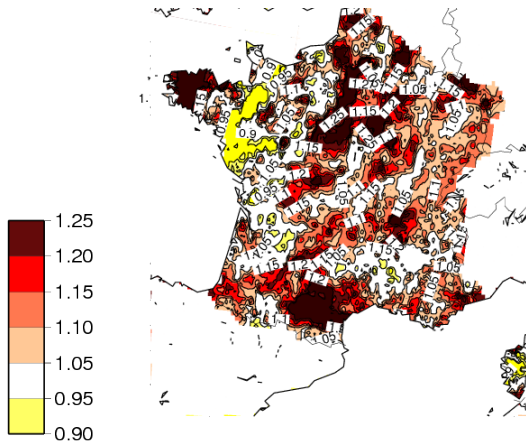


Précipitations : jours >20 mm en été

A1B

A2

B1

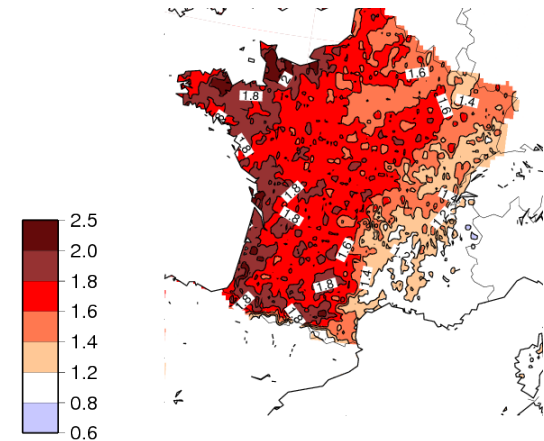
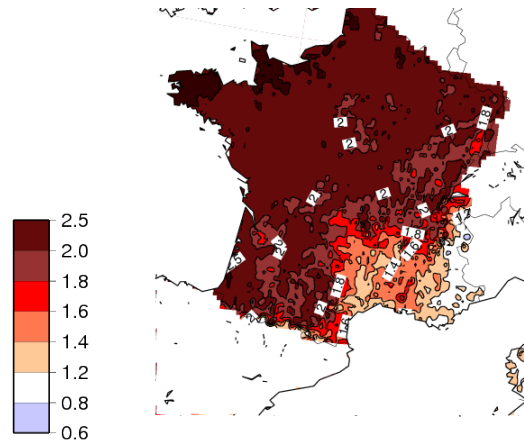
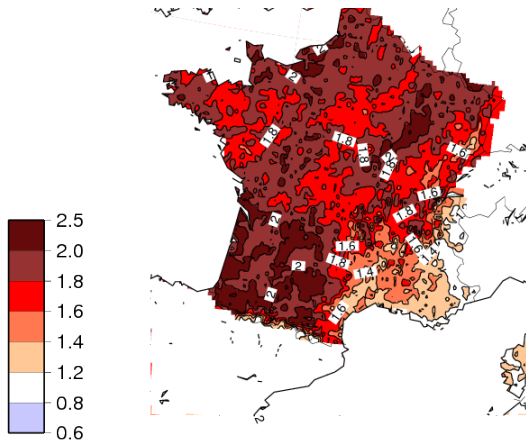


Durée maximum de sécheresse estivale

A1B

A2

B1

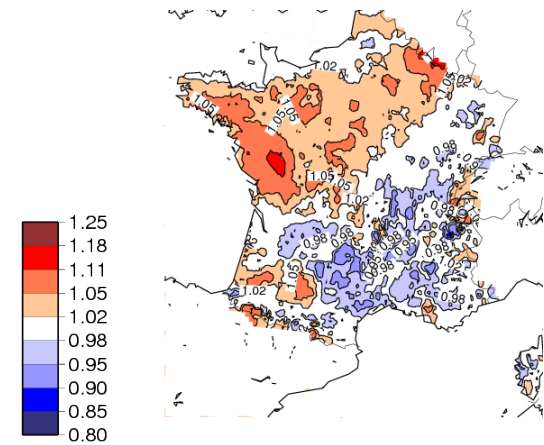
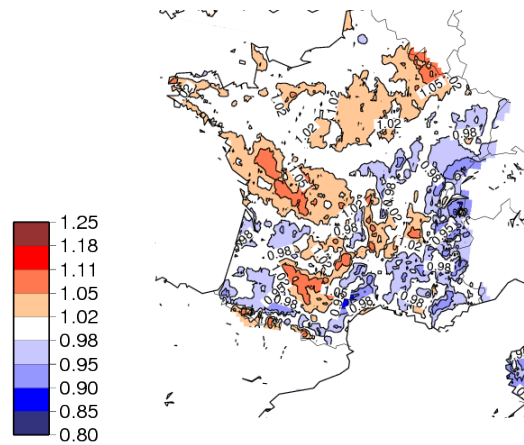
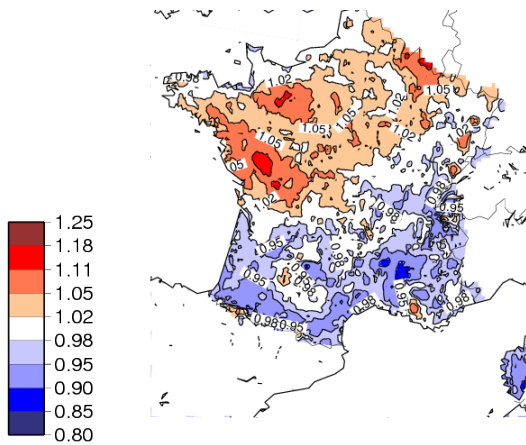


Vent maximum en hiver

A1B

A2

B1



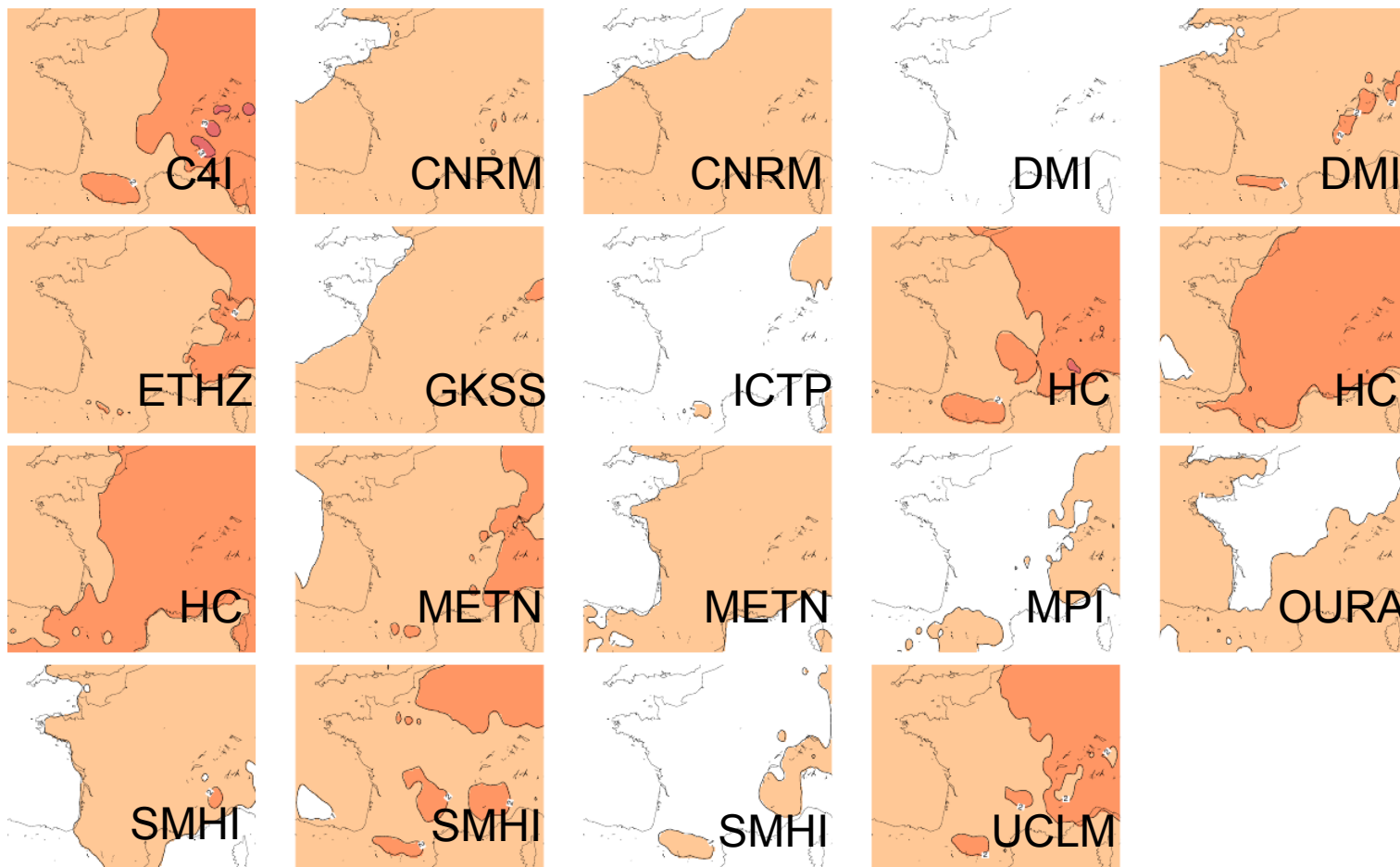
Conclusions

- Climat plus chaud
- Climat plus humide (sur la planète)
- Plus sec en été (en Europe)
- Des pluies intenses plus marquées
- Faible impact sur les vents forts

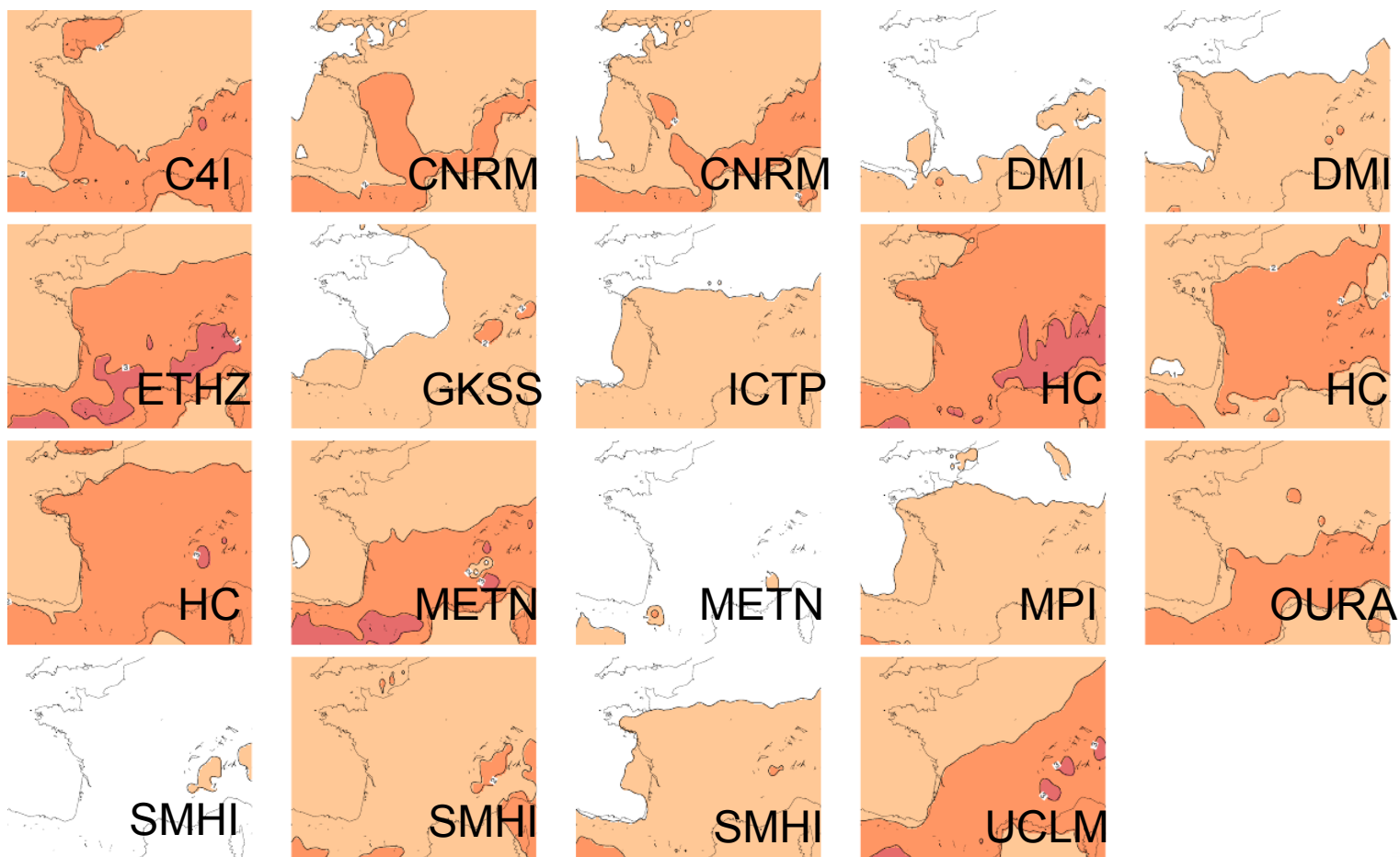
ANNEXE

**Le signal 2021-2050 en France
par rapport à 1961-1990**

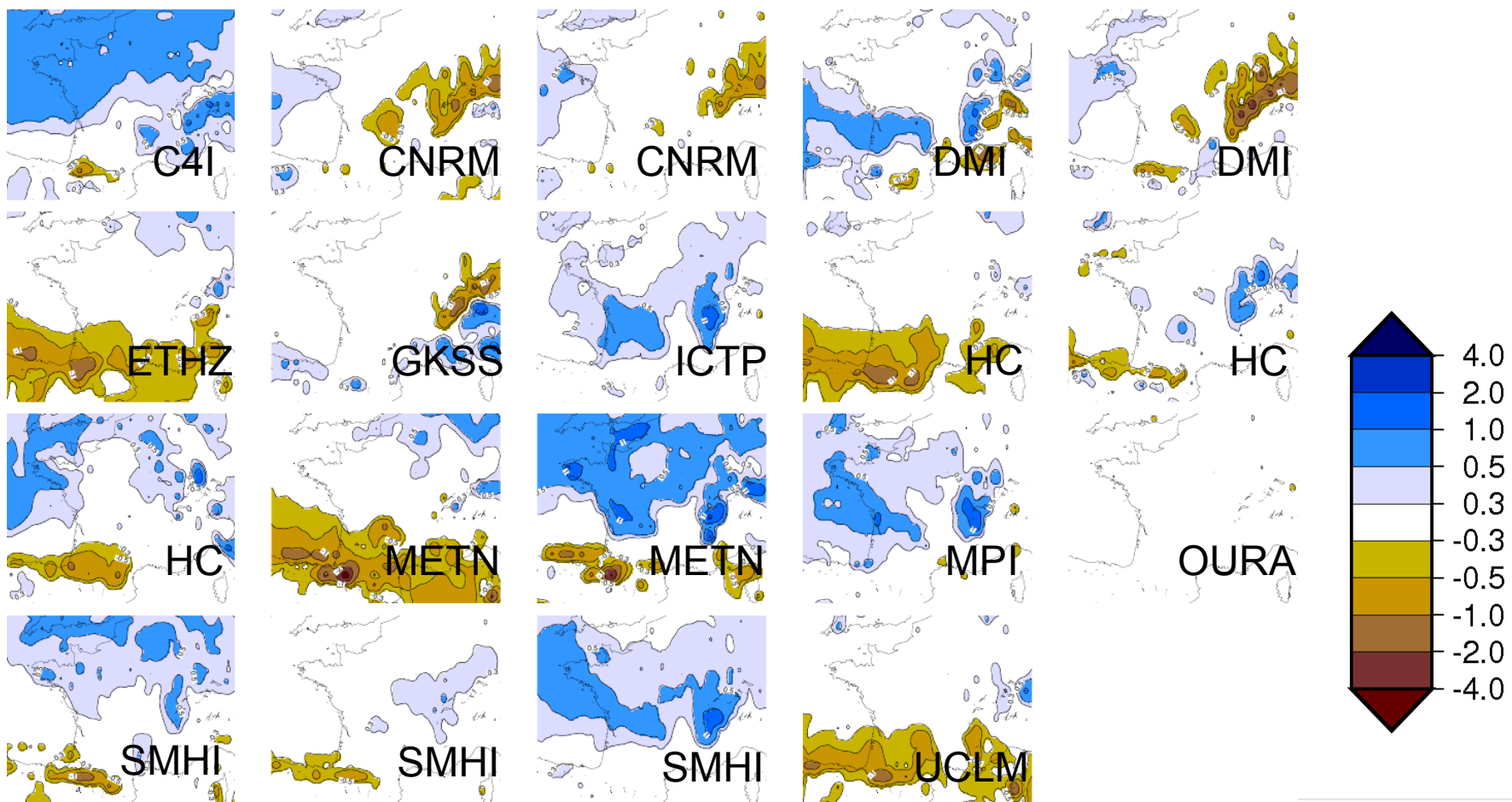
Réponse température hiver 2021-2050



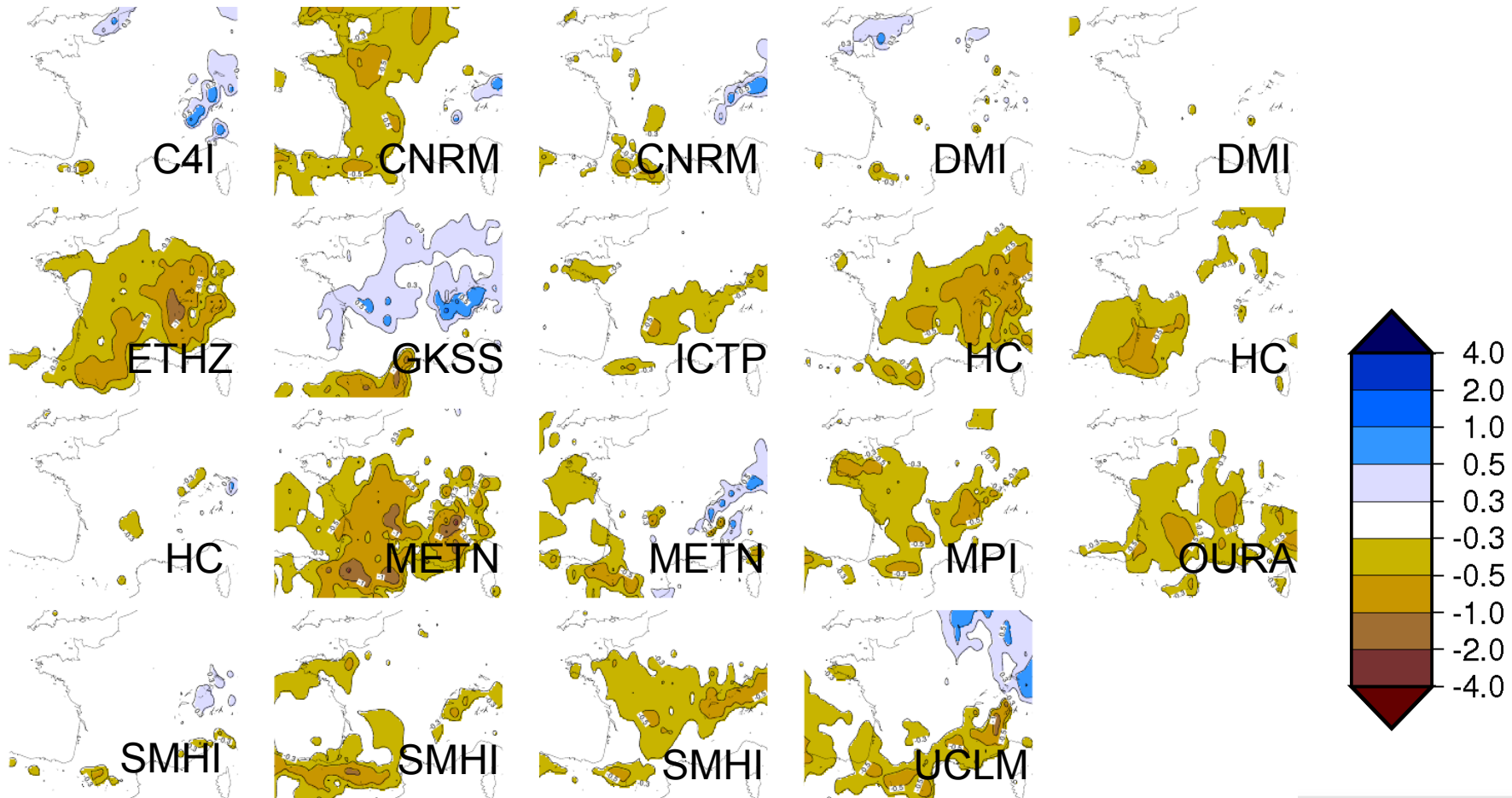
Réponse température été 2021-2050



Réponse précipitations hiver 2021-2050



Réponse précipitations été 2021-2050



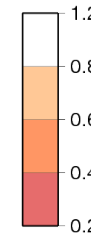
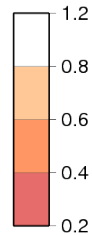
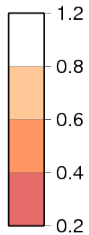
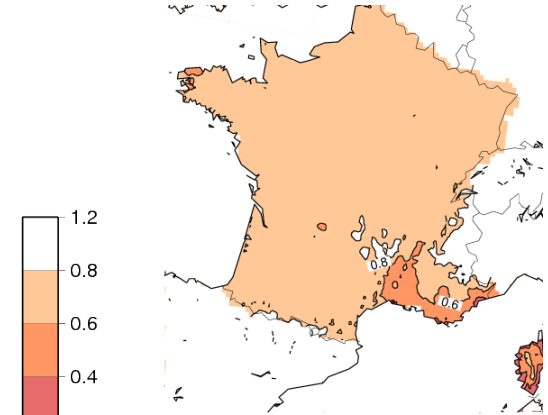
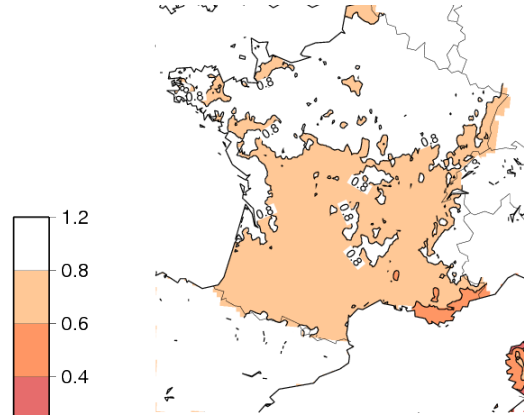
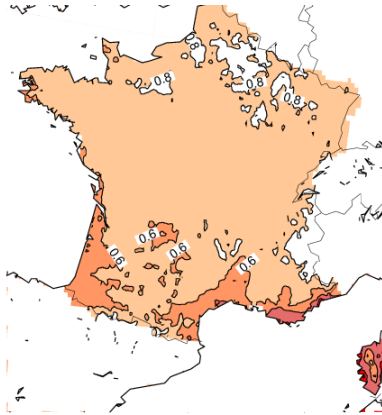
Nombre de jours de gel

A1B

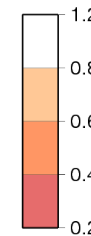
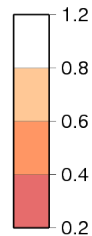
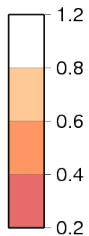
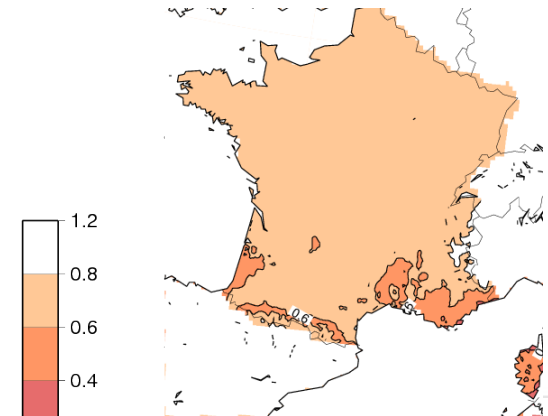
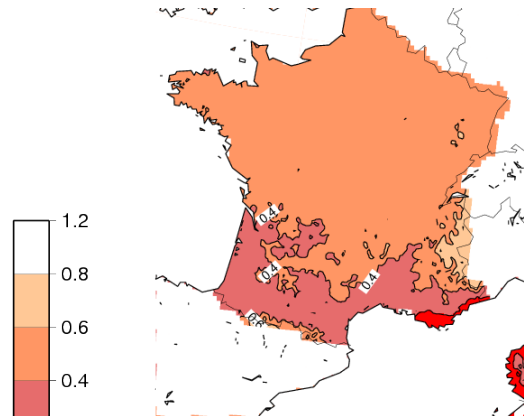
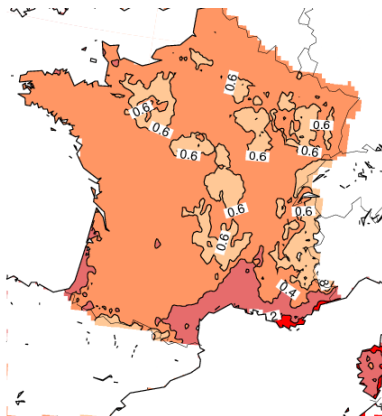
A2

B1

2021-2050



2071-2100



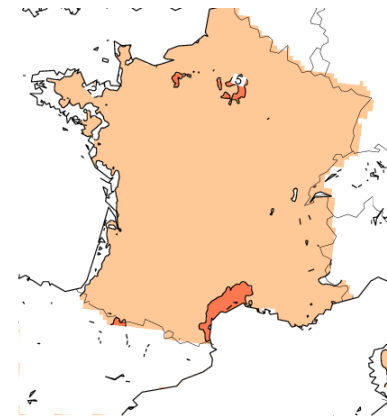
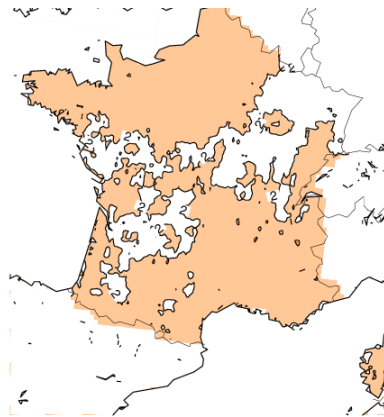
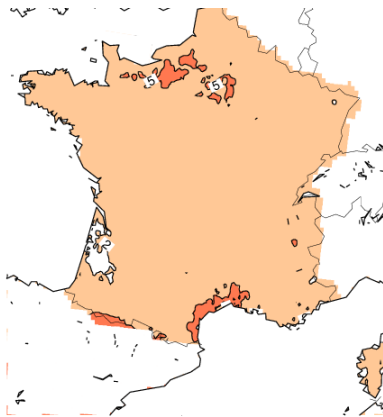
Nombre de jours de canicule

A1B

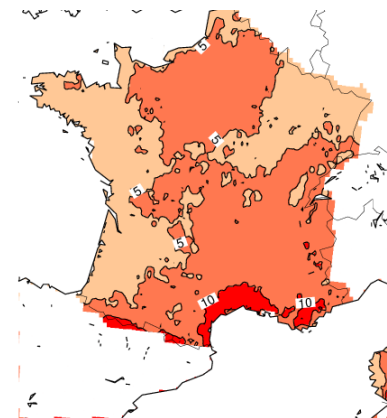
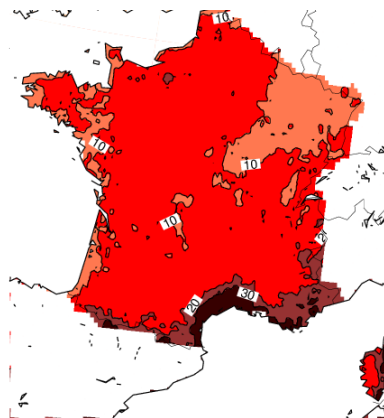
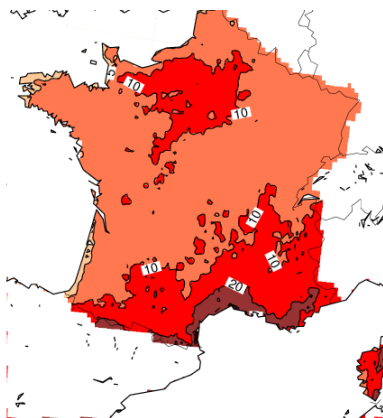
A2

B1

2021-2050



2071-2100



Précipitations : jours >20 mm en hiver

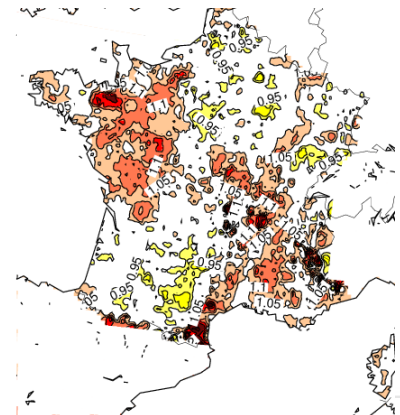
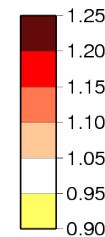
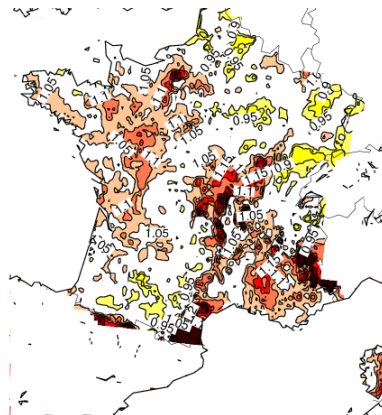
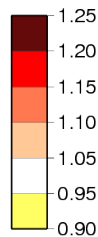
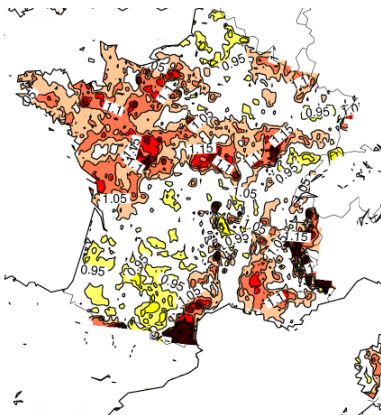
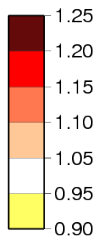
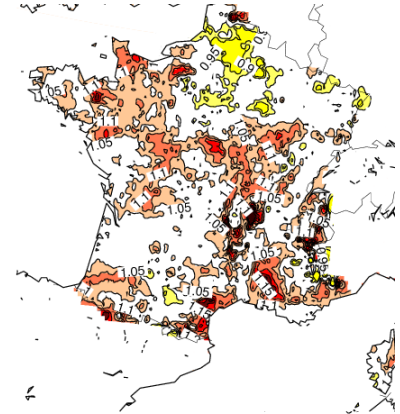
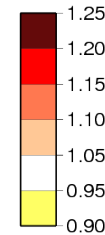
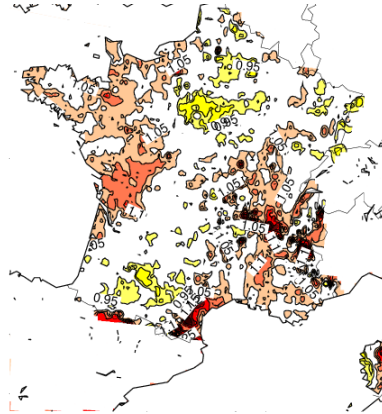
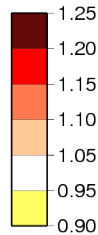
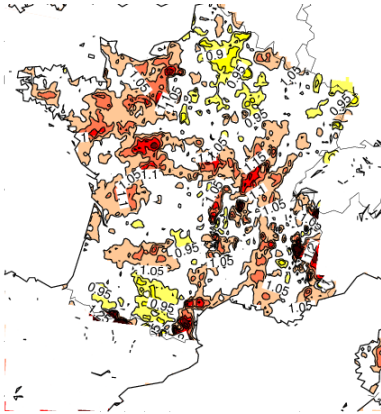
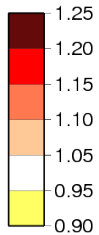
A1B

A2

B1

2021-2050

2071-2100



Précipitations : jours >20 mm en été

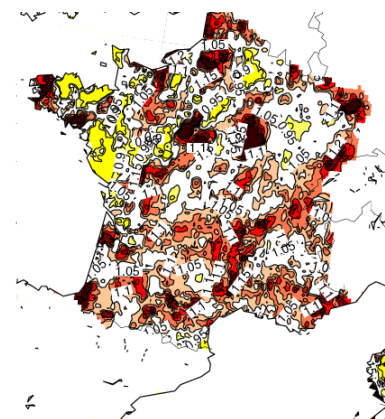
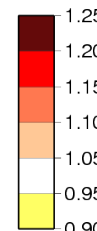
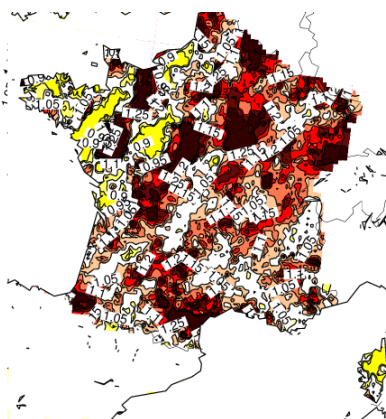
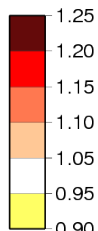
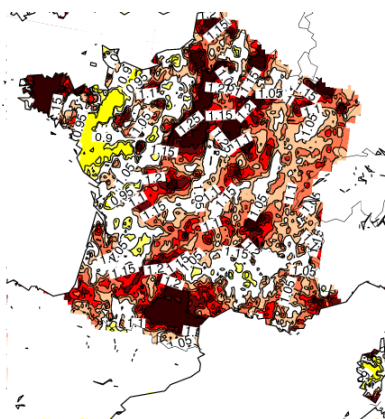
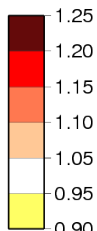
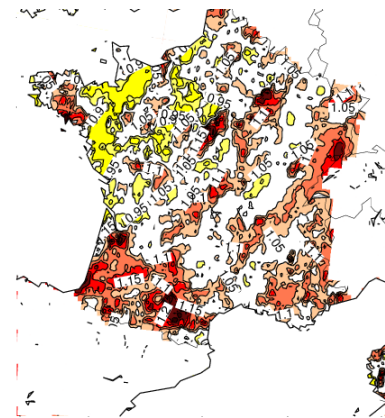
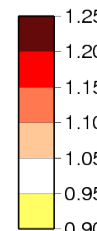
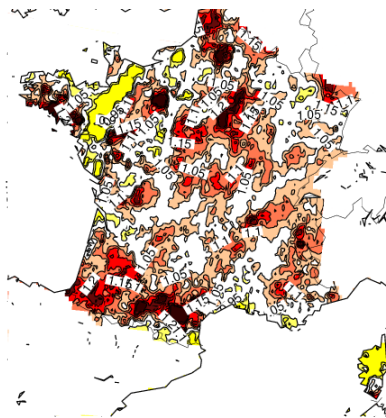
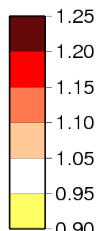
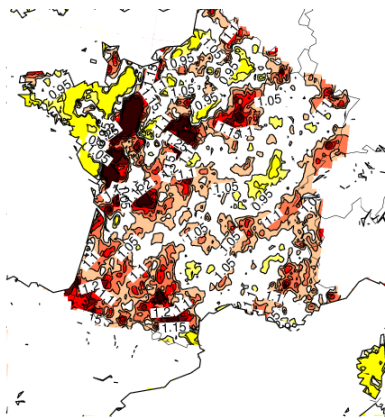
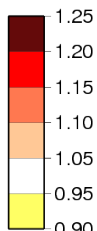
A1B

A2

B1

2021-2050

2071-2100



Durée maximum de sécheresse estivale

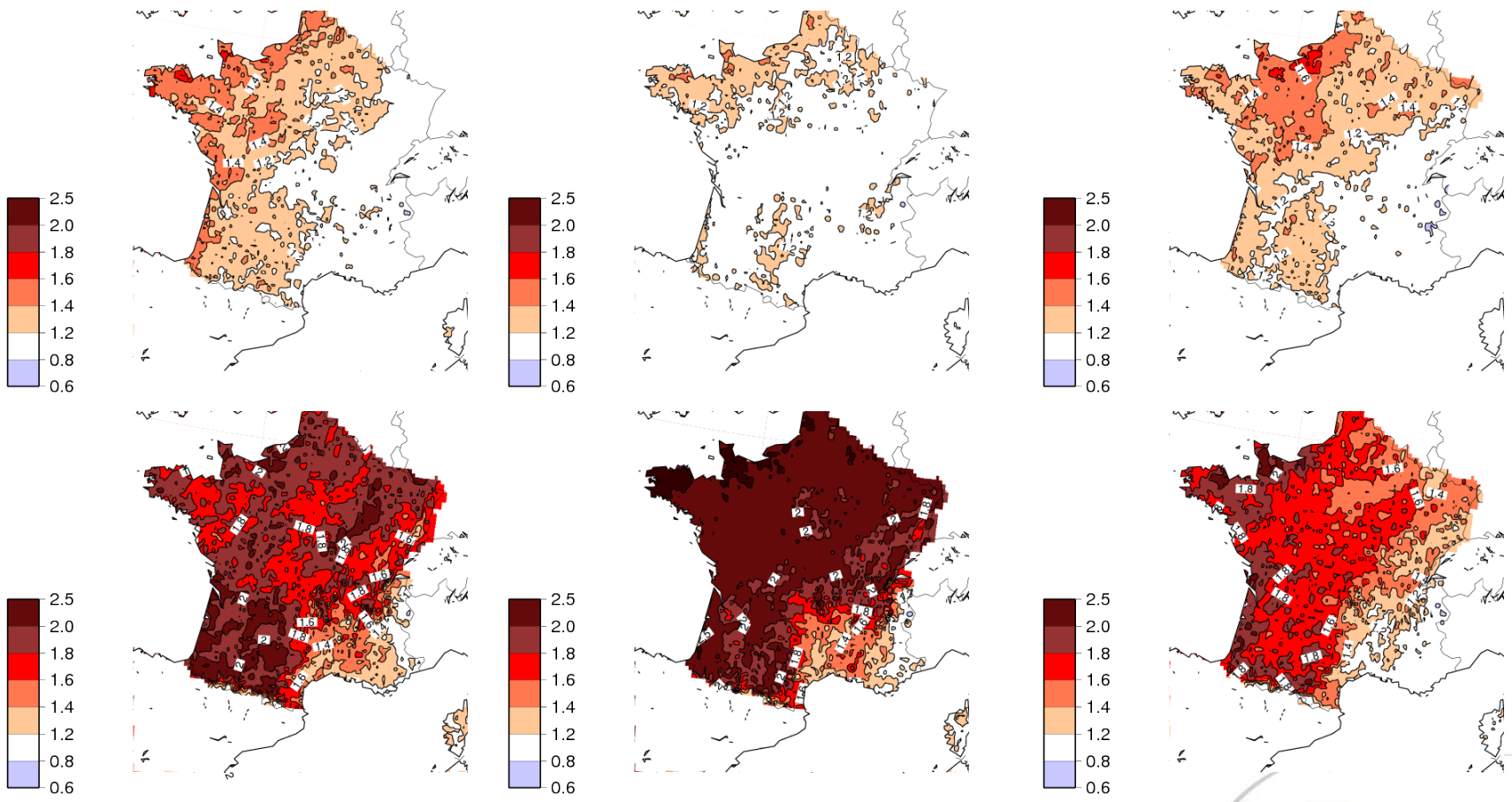
A1B

A2

B1

2021-2050

2071-2100



Vent maximum en hiver

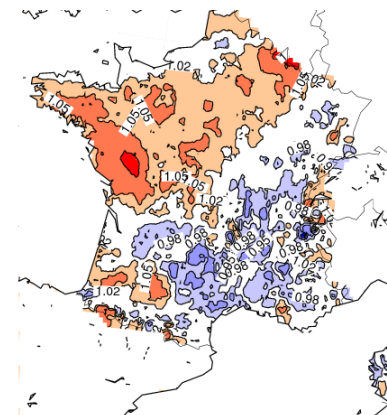
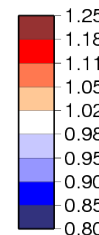
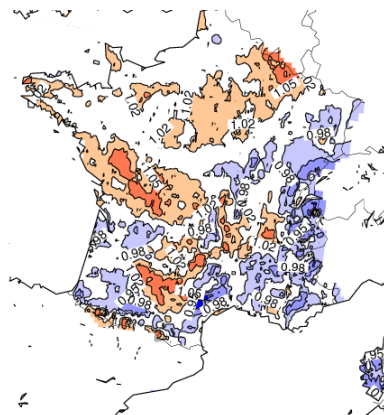
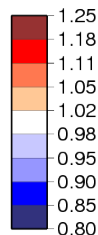
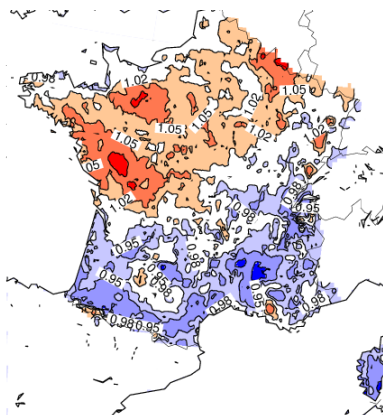
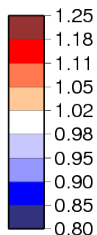
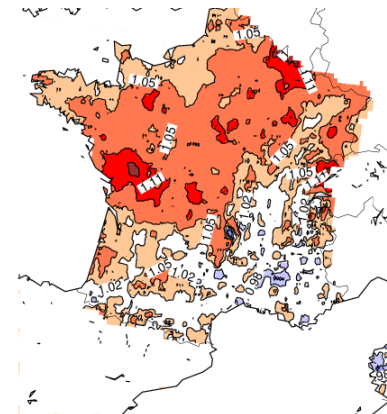
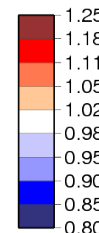
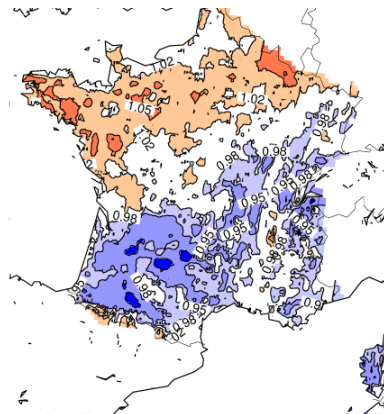
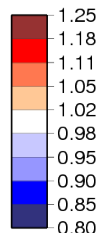
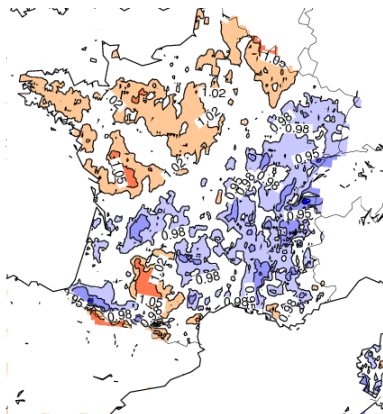
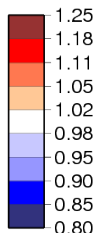
2021-2050

2071-2100

A1B

A2

B1



Vent maximum en été

2021-2050

2071-2100

A1B

A2

B1

