

# Cartographie

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# 1 Nombre moyen de jour de pluie (seuil 1 mm/j)

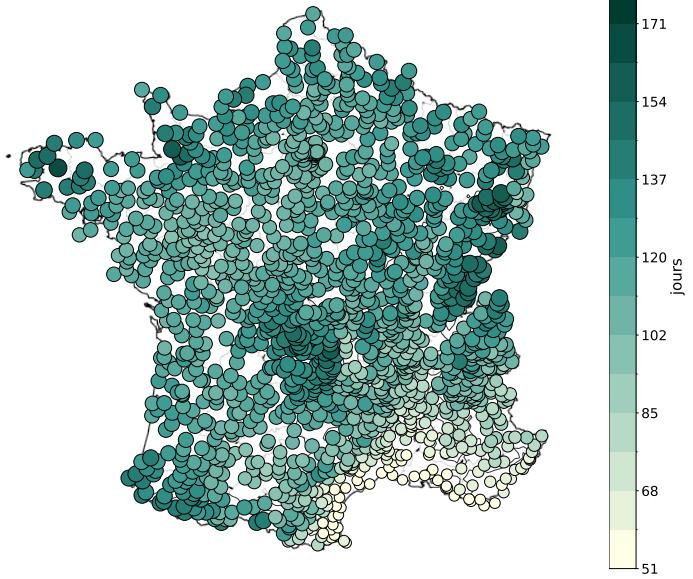
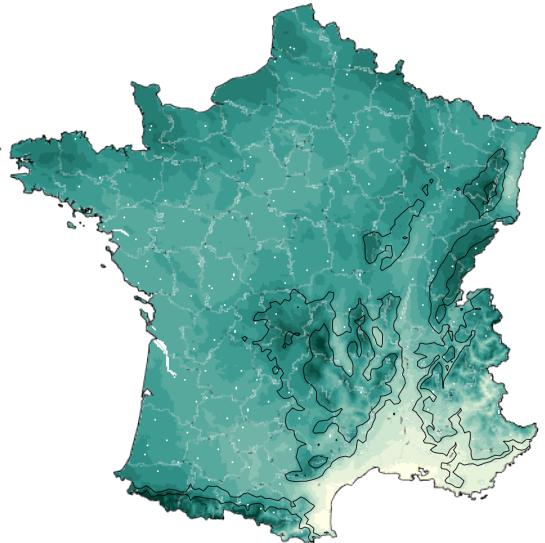
## 1.1 Données journalières (1959-2022)

**HYDRO**

$r = 0.95$

ME = 6.35

$n = 1583$

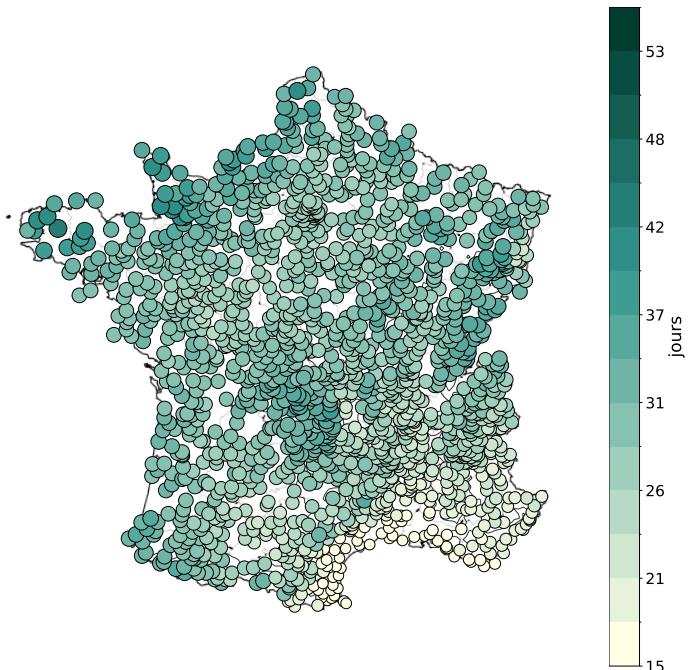
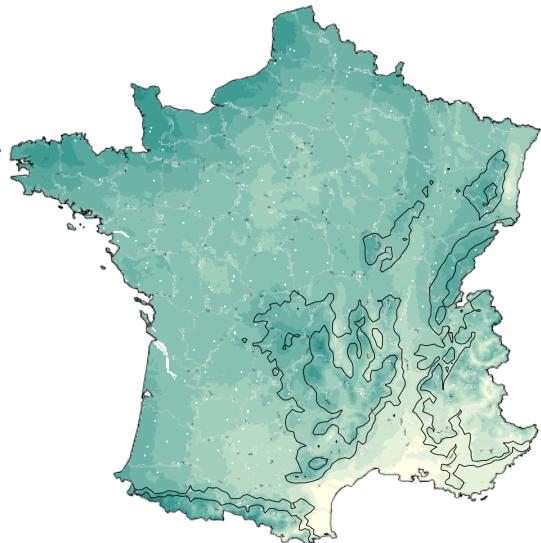


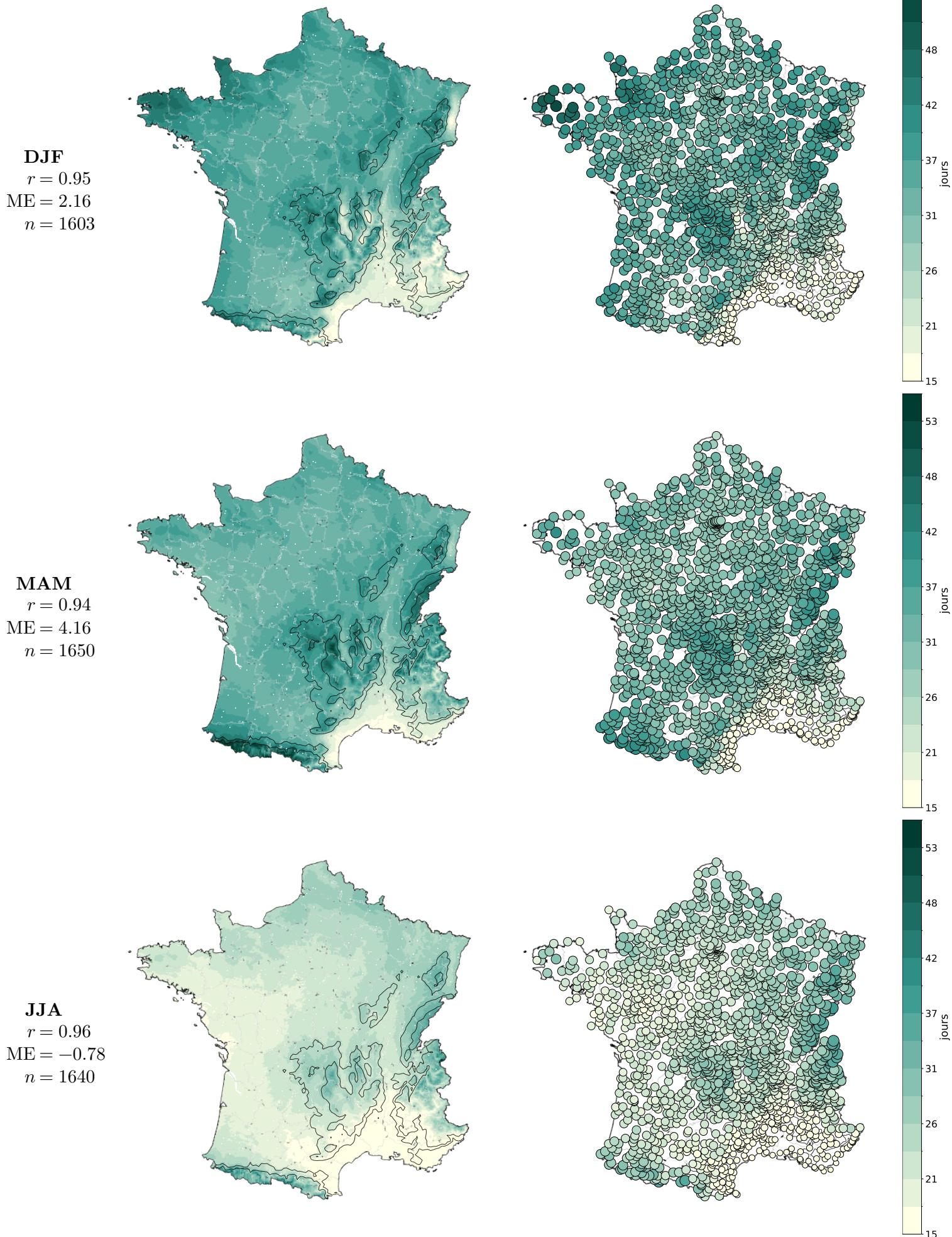
**SON**

$r = 0.95$

ME = 0.65

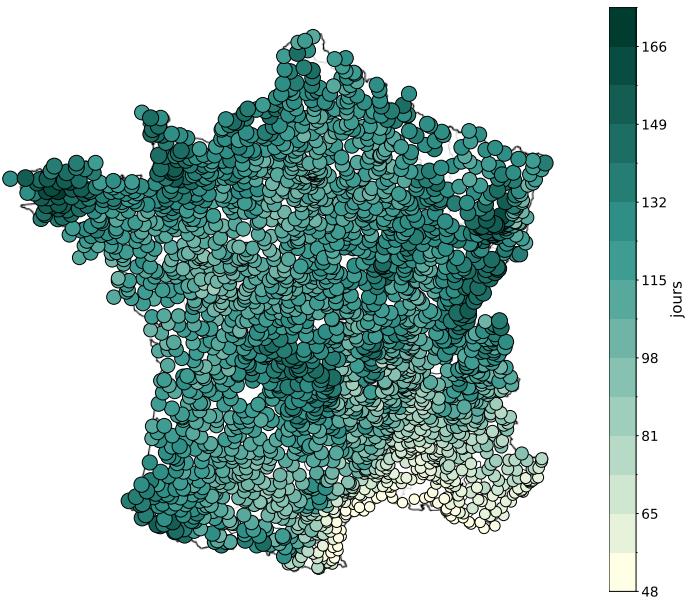
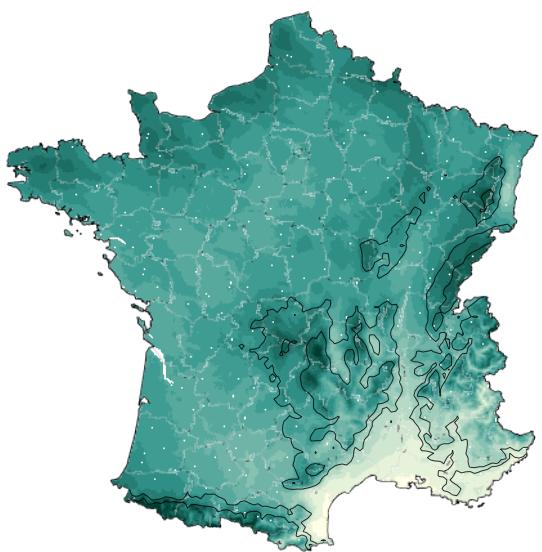
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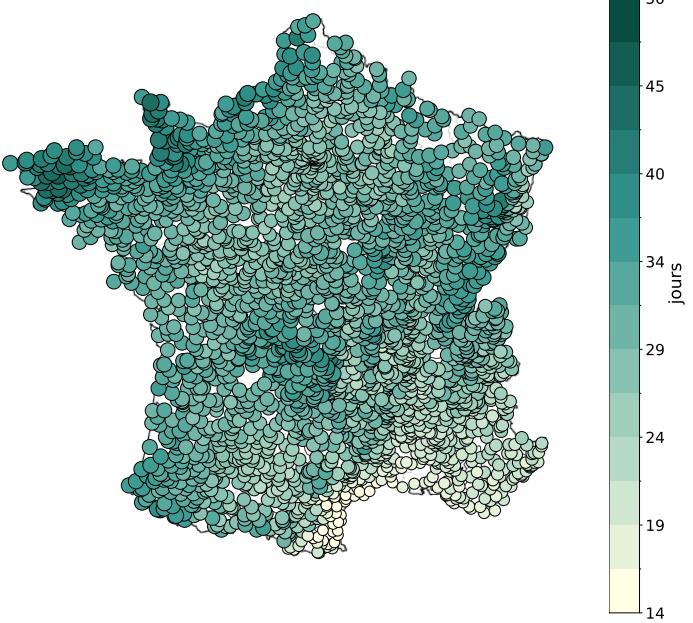
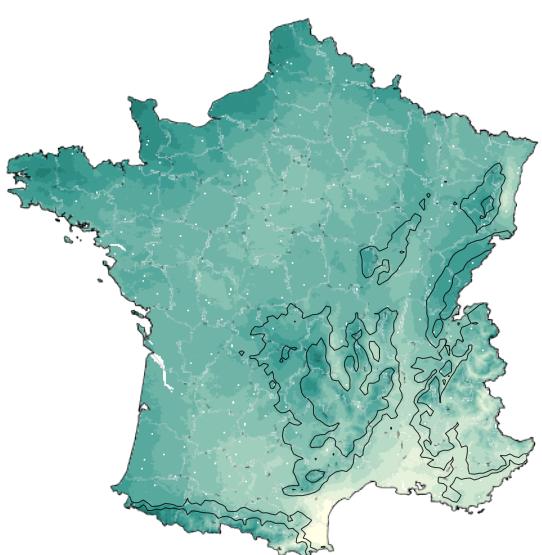


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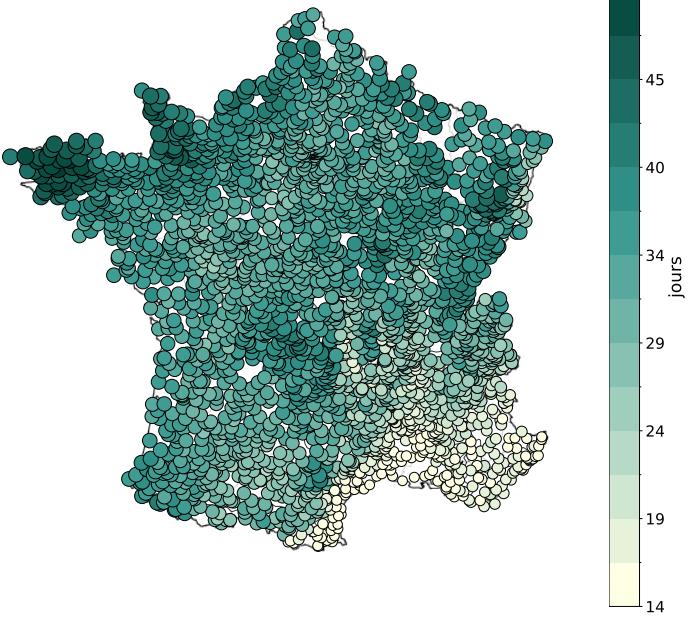
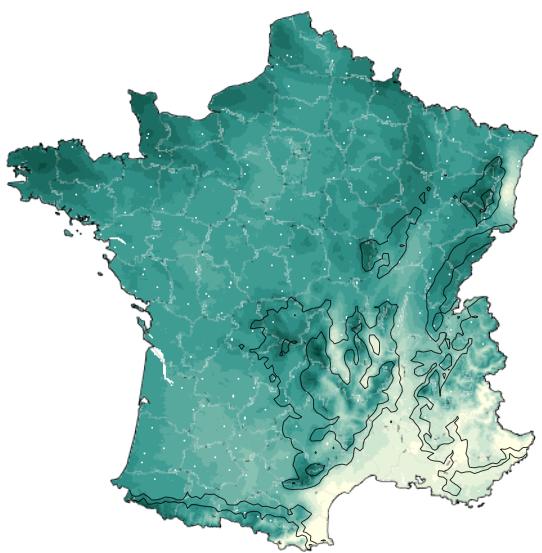
**HYDRO**  
 $r = 0.95$   
ME = 2.82  
 $n = 2613$

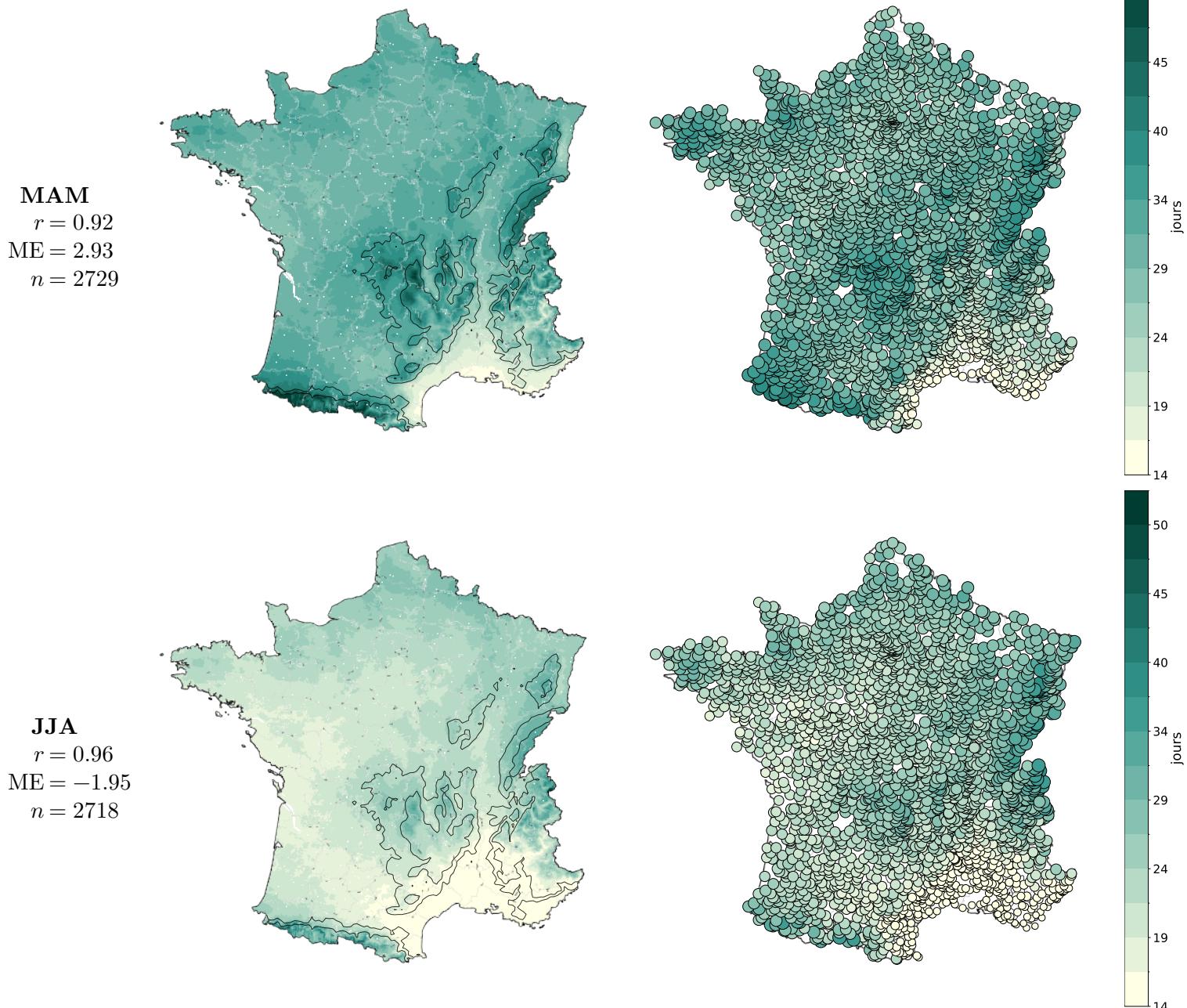


**SON**  
 $r = 0.94$   
ME = 0.09  
 $n = 2719$

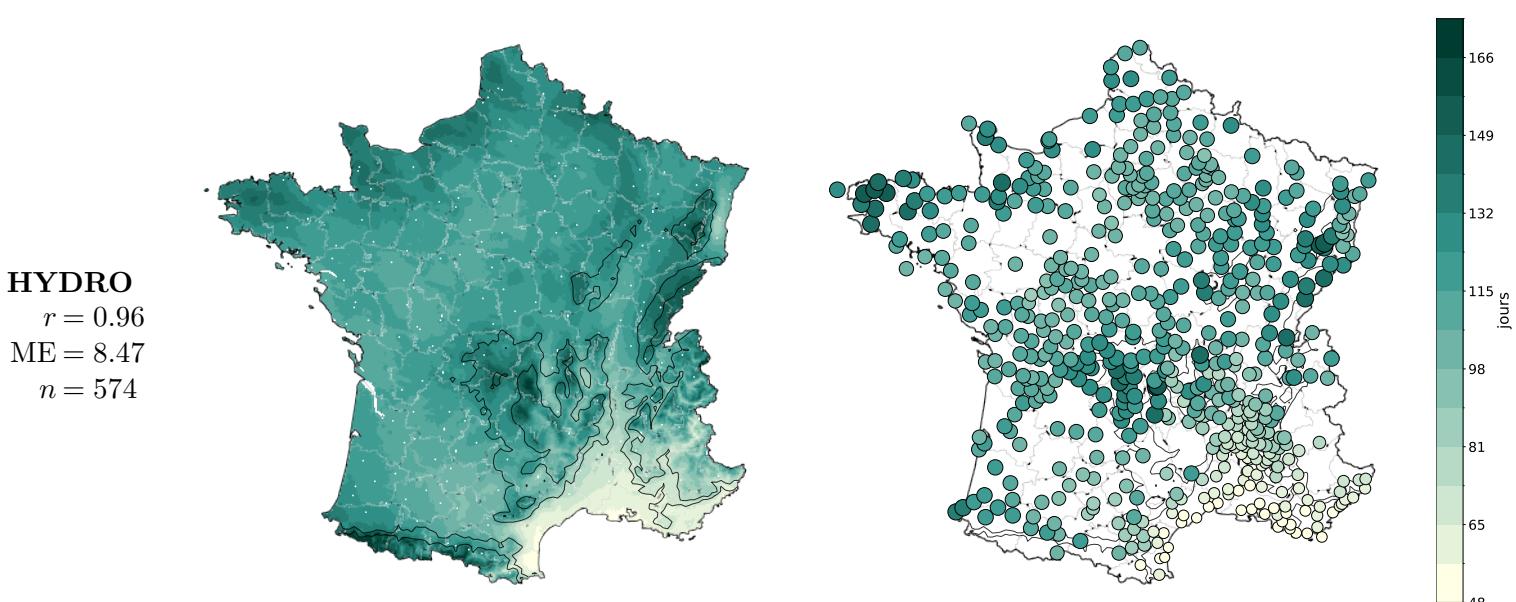


**DJF**  
 $r = 0.95$   
ME = 1.78  
 $n = 2663$

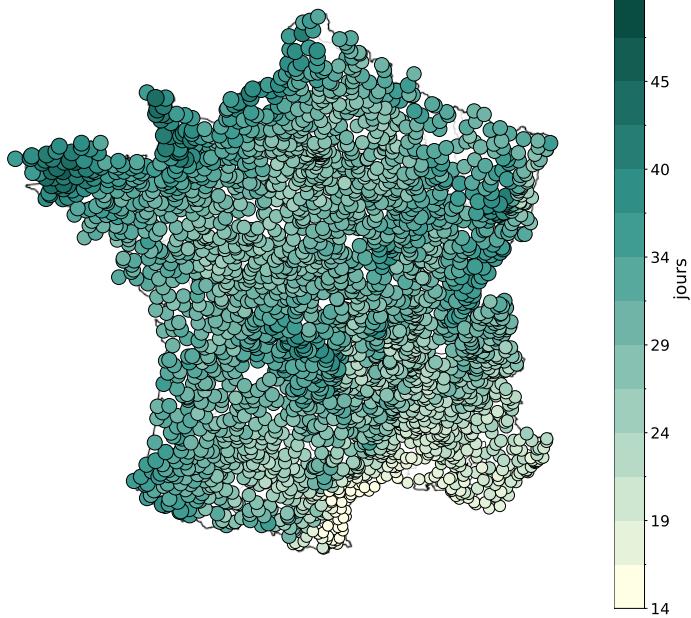
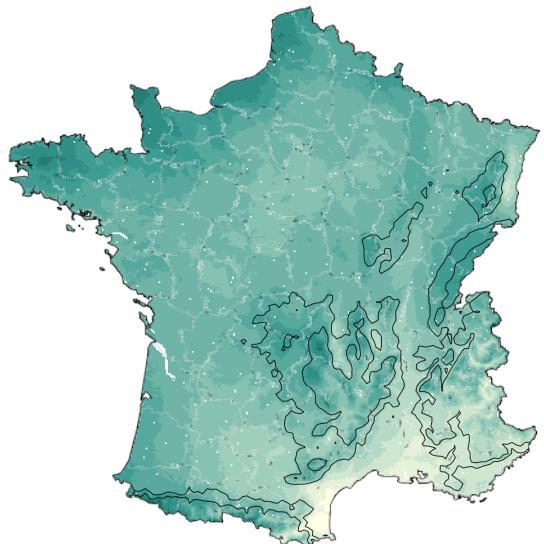




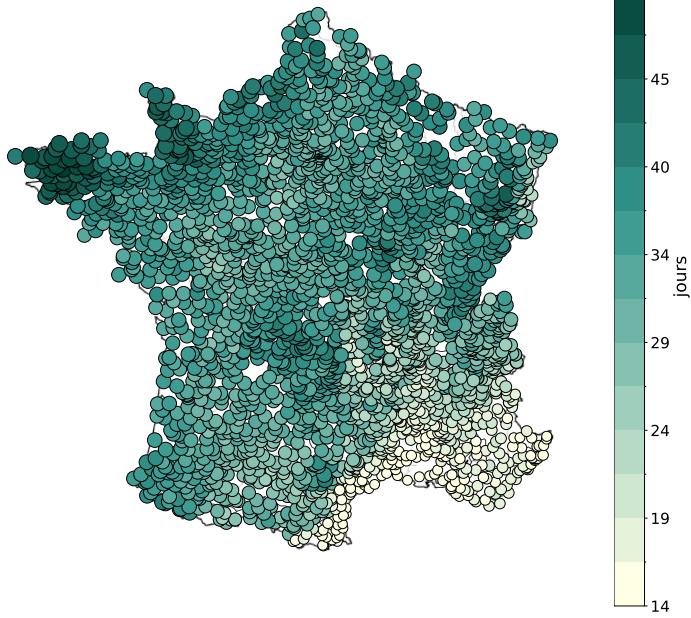
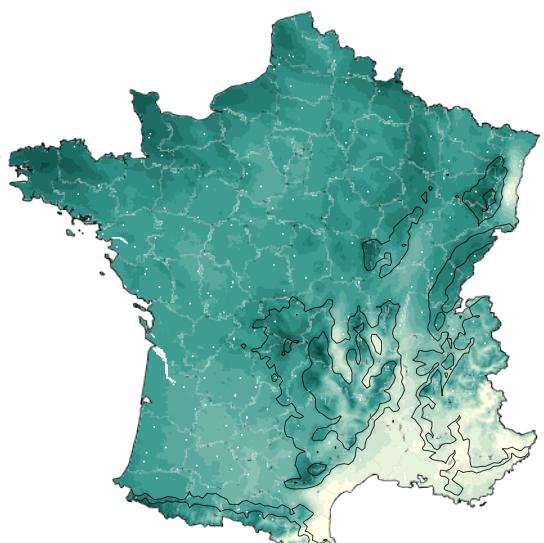
### 1.3 Données horaires (1990-2022)



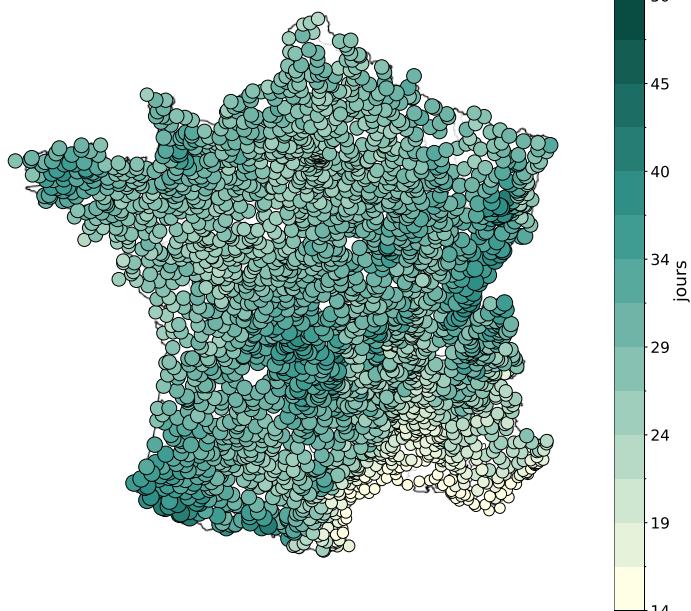
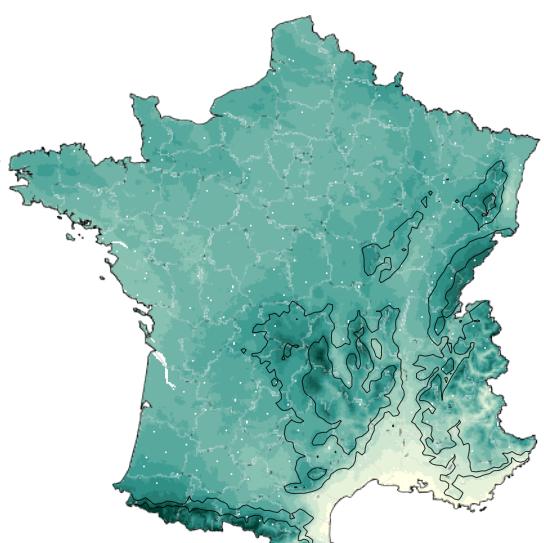
**SON**  
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ME = 0.09  
 $n = 2719$

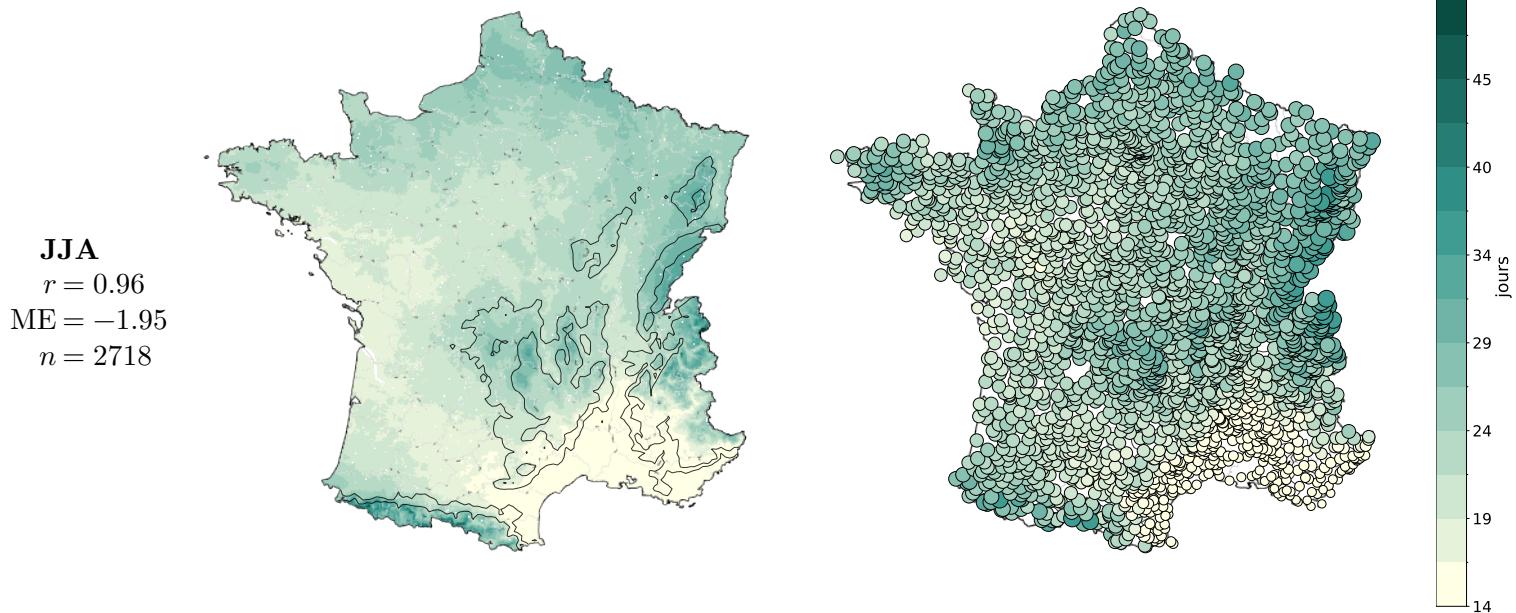


**DJF**  
 $r = 0.95$   
ME = 1.78  
 $n = 2663$



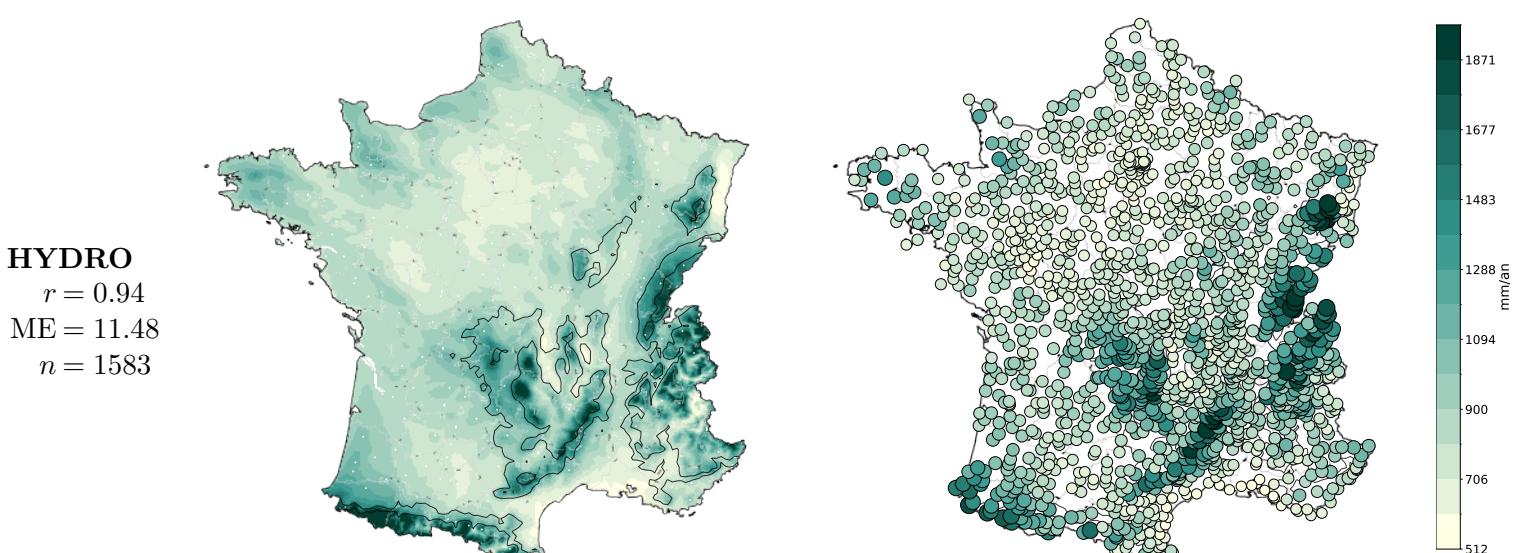
**MAM**  
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ME = 2.93  
 $n = 2729$



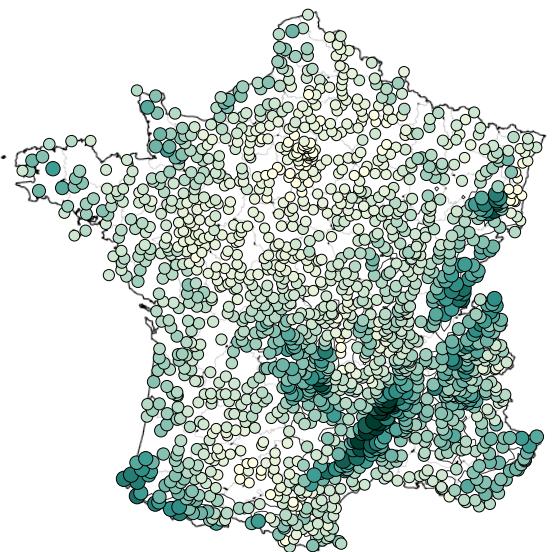
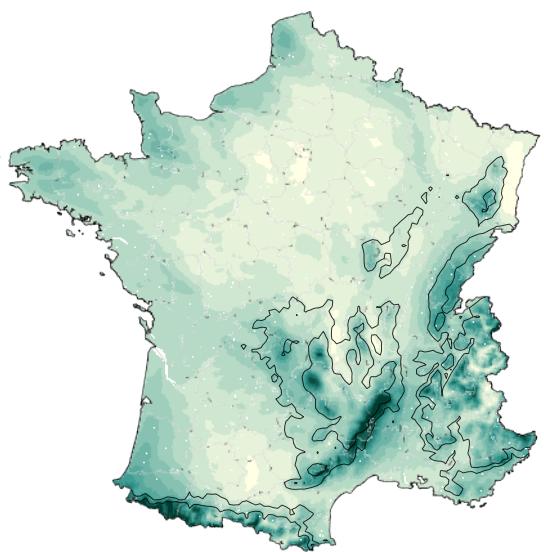


## 2 Cumul moyen des précipitations par année hydrologique

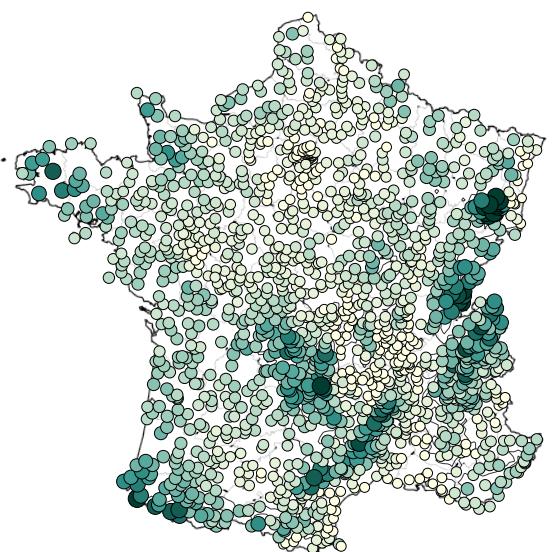
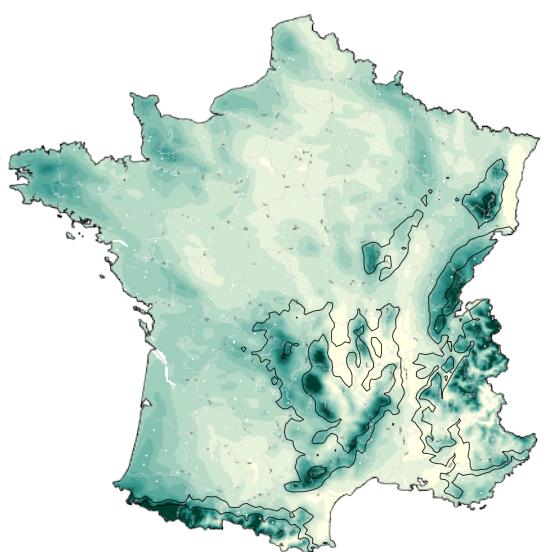
### 2.1 Données journalières (1959-2022)



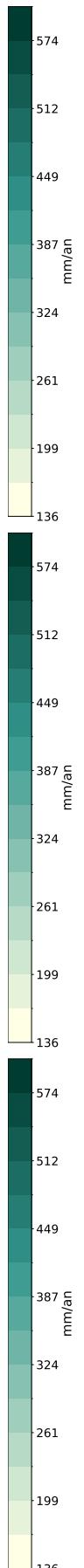
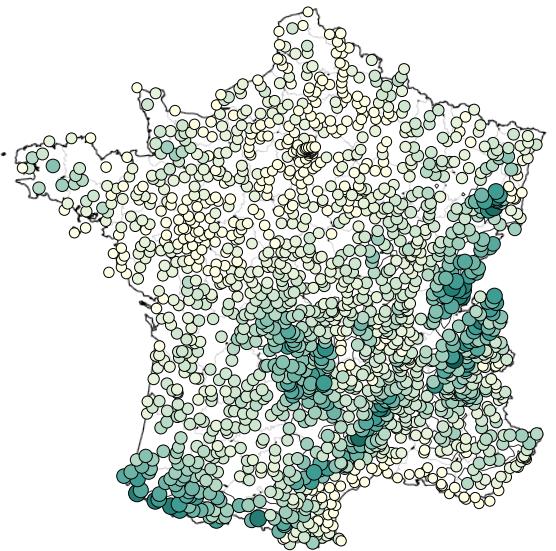
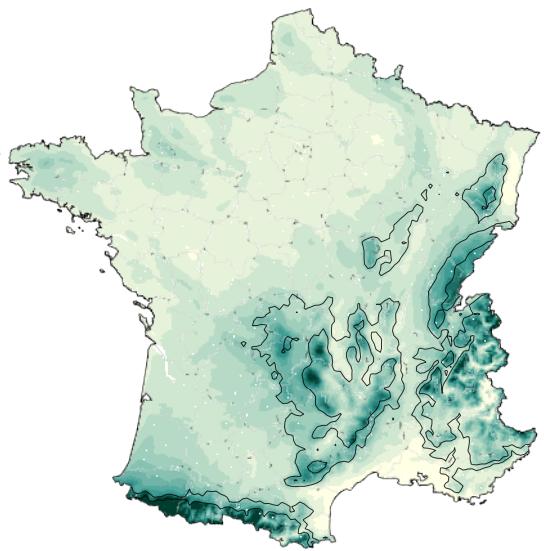
**SON**  
 $r = 0.95$   
ME = -3.21  
 $n = 1664$



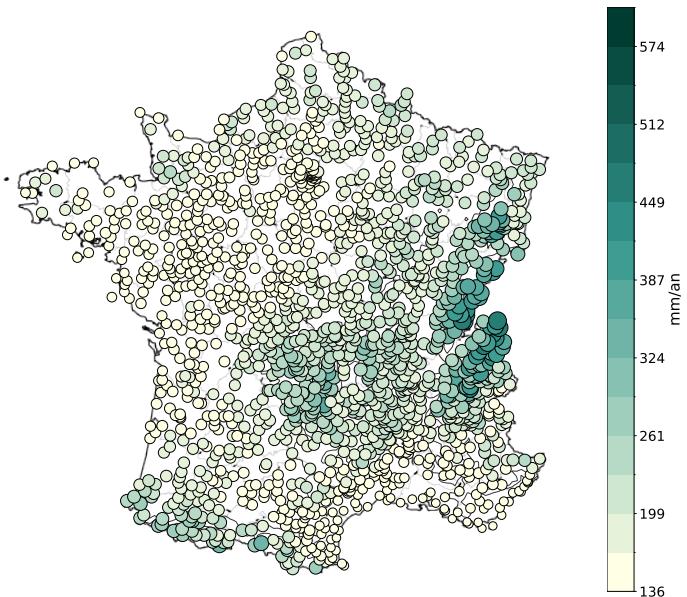
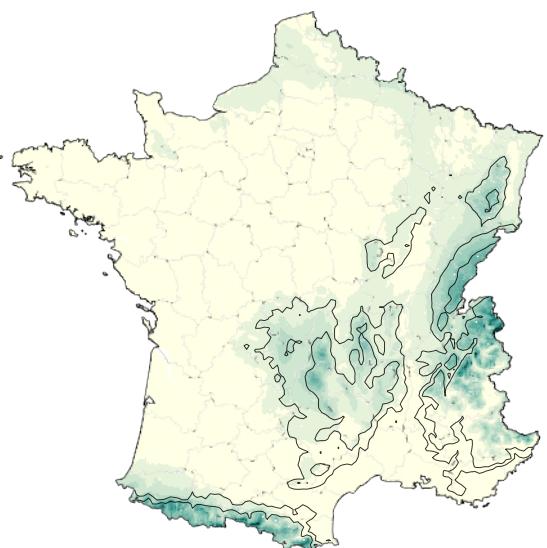
**DJF**  
 $r = 0.94$   
ME = 12.90  
 $n = 1603$



**MAM**  
 $r = 0.94$   
ME = 23.39  
 $n = 1650$

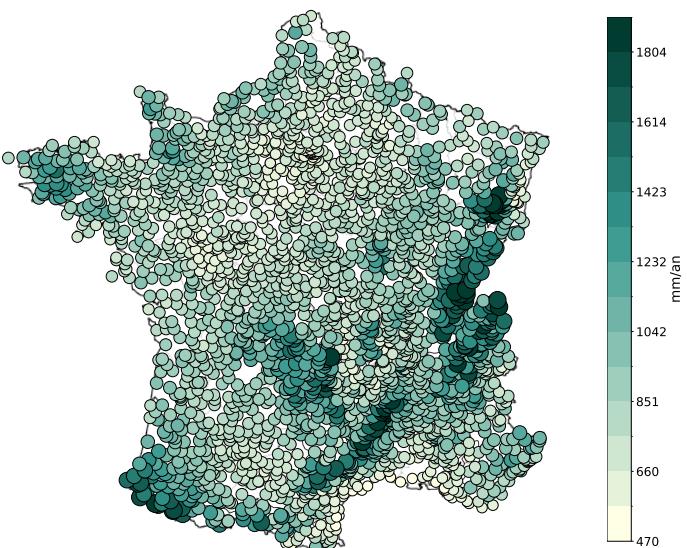
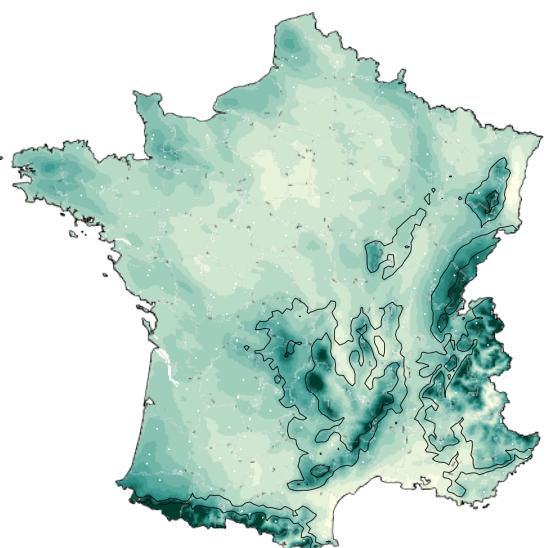


**JJA**  
 $r = 0.94$   
ME =  $-21.7^\circ$   
 $n = 1640$

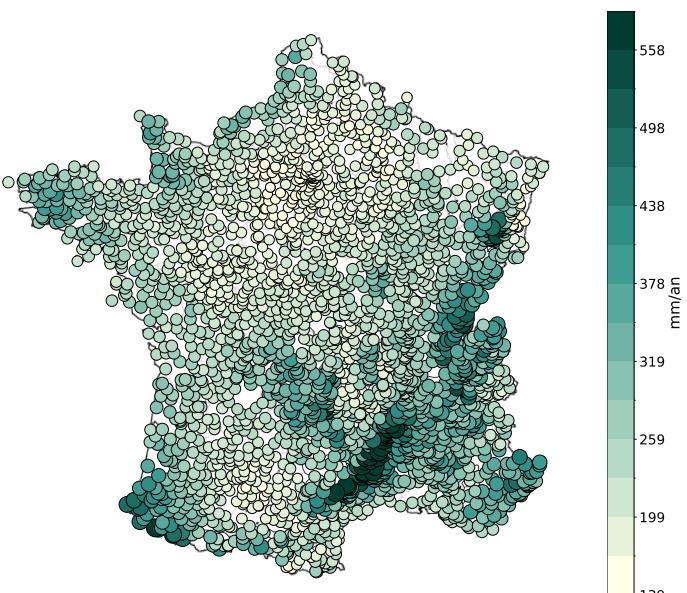
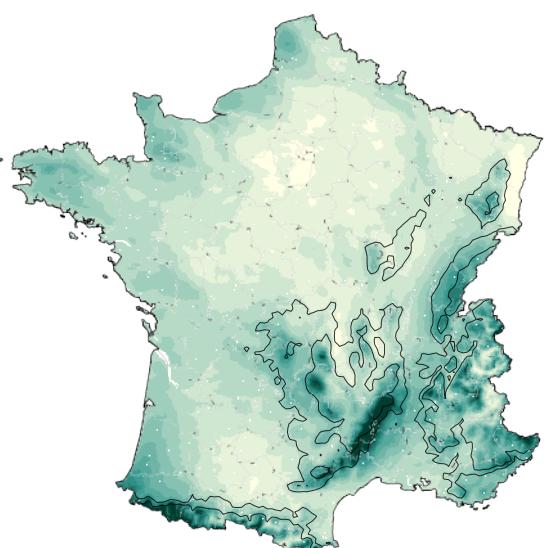


## 2.2 Données journalières (1990-2022)

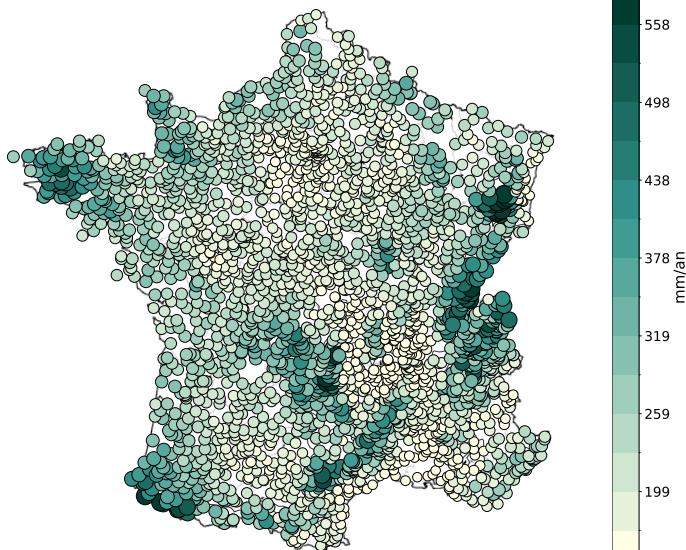
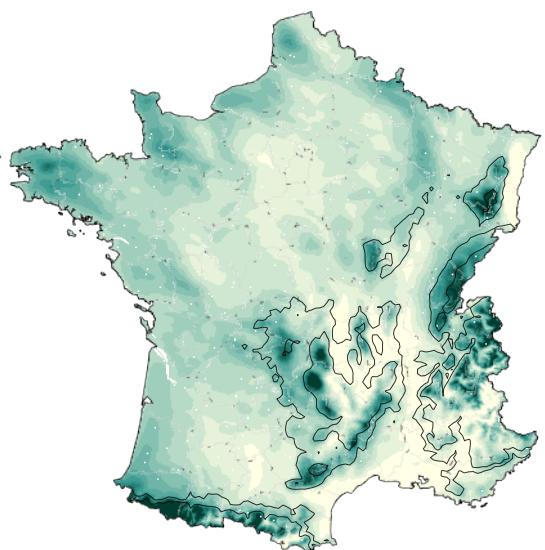
**HYDRO**  
 $r = 0.94$   
ME =  $-22.8^\circ$   
 $n = 2613$



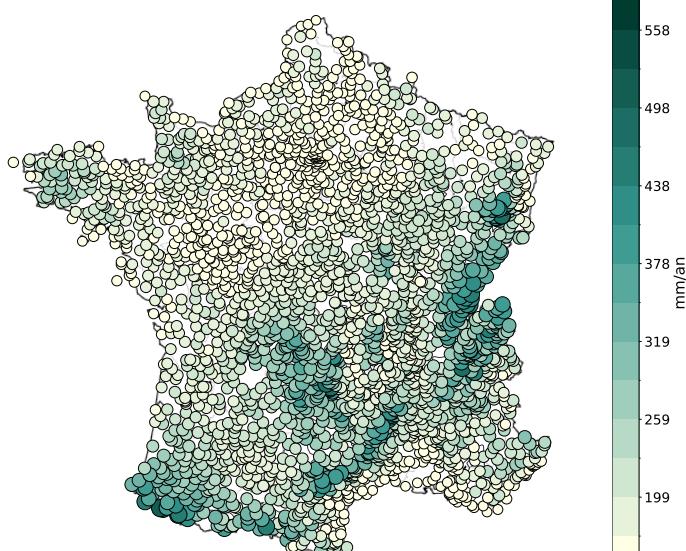
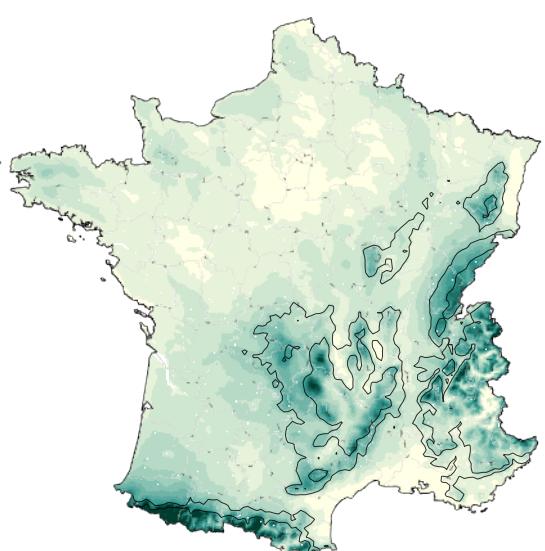
**SON**  
 $r = 0.95$   
ME =  $-10.1^\circ$   
 $n = 2719$



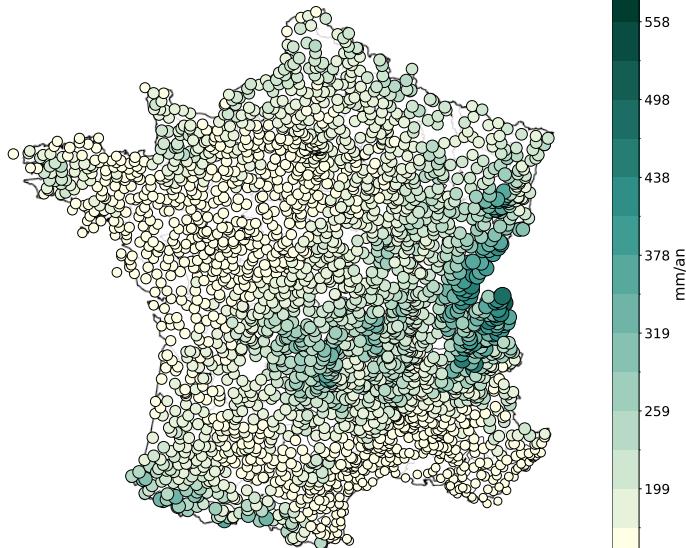
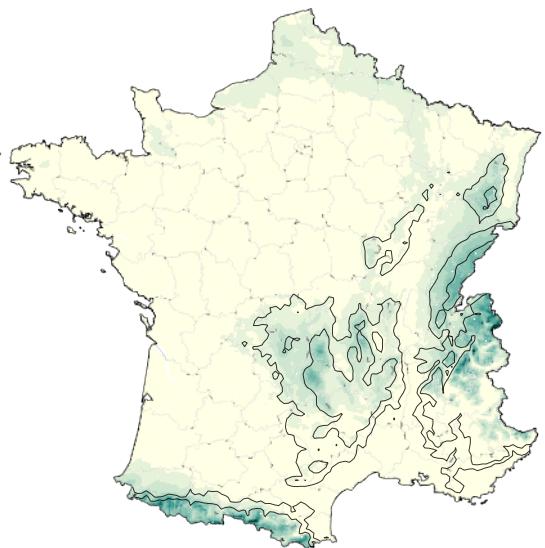
**DJF**  
 $r = 0.93$   
ME = 9.27  
 $n = 2663$



**MAM**  
 $r = 0.93$   
ME = 12.82  
 $n = 2729$

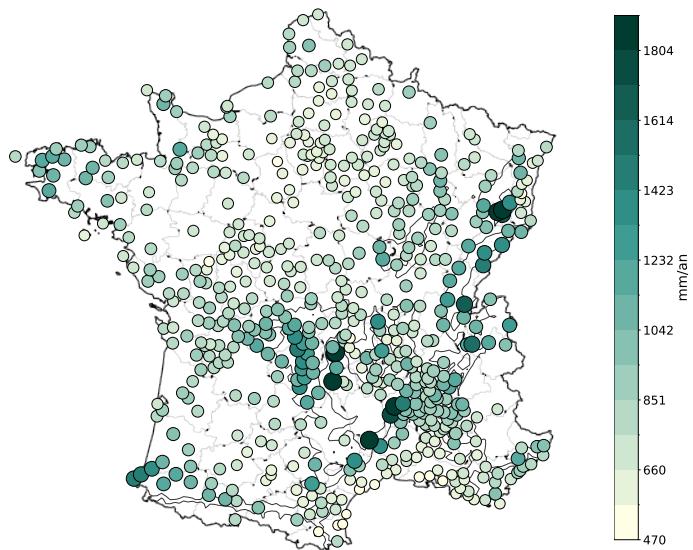
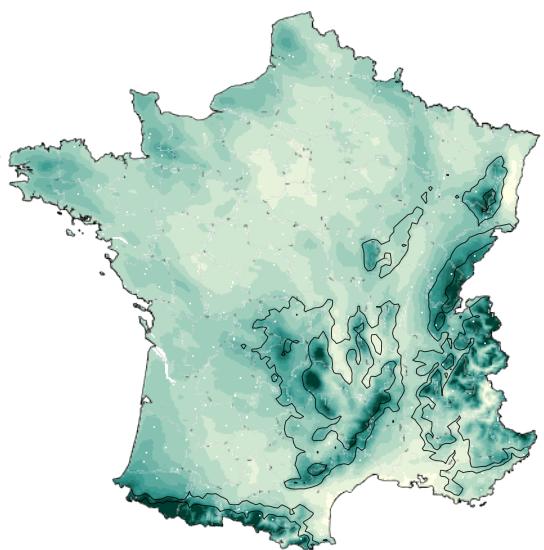


**JJA**  
 $r = 0.94$   
ME = -33.34  
 $n = 2718$

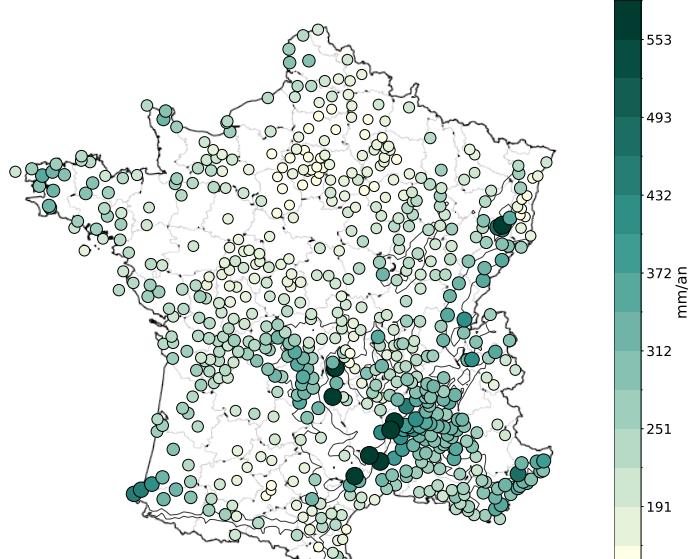
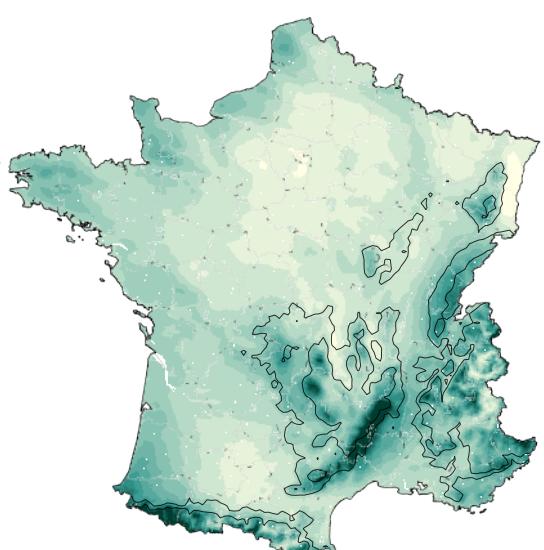


## 2.3 Données horaires (1990-2022)

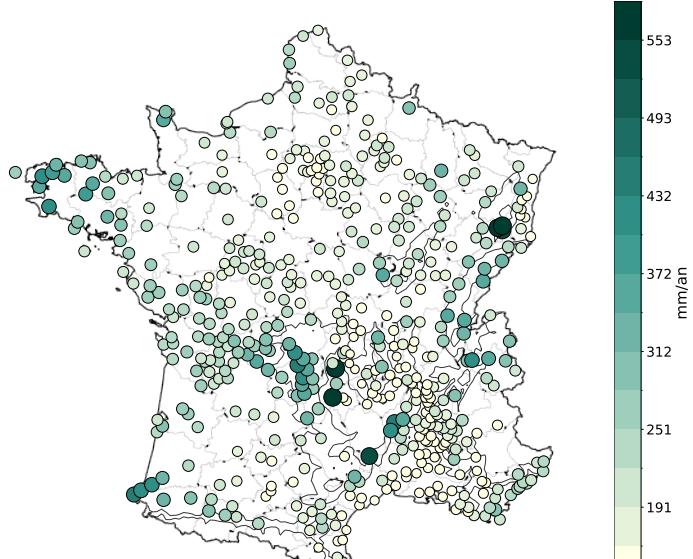
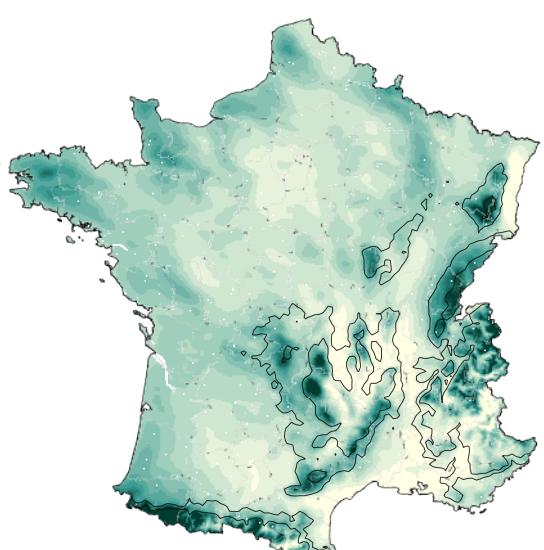
**HYDRO**  
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ME = 22.67  
 $n = 574$



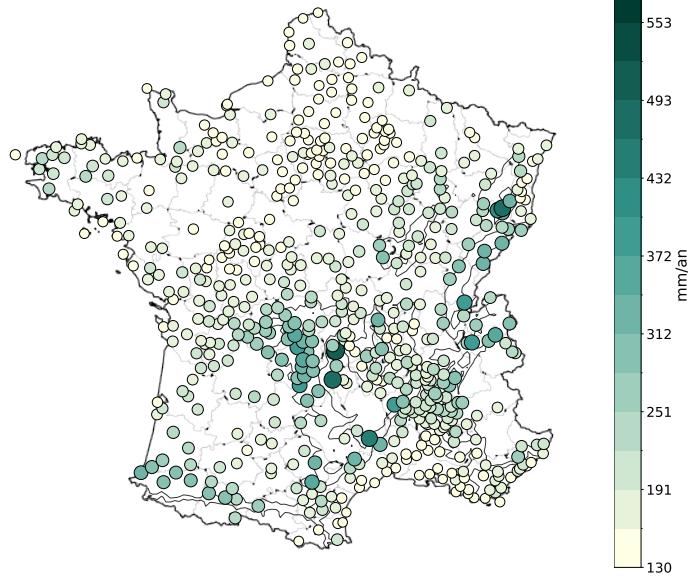
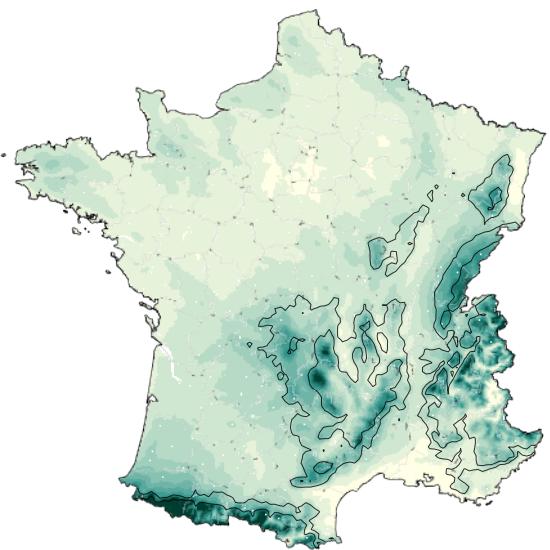
**SON**  
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ME = 5.82  
 $n = 609$



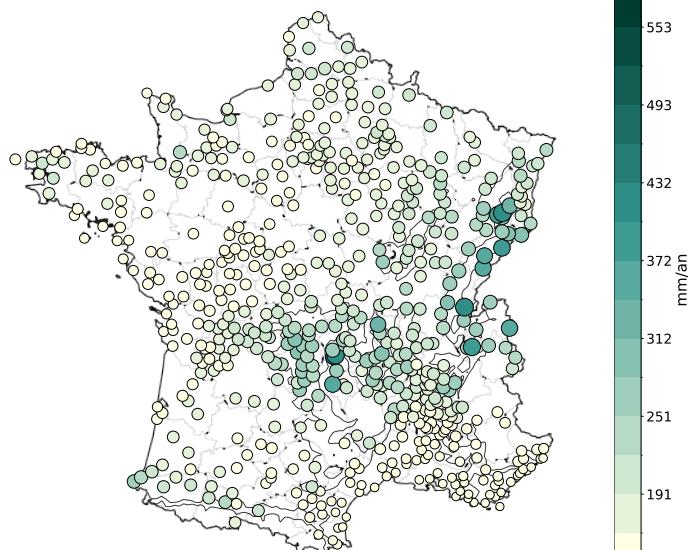
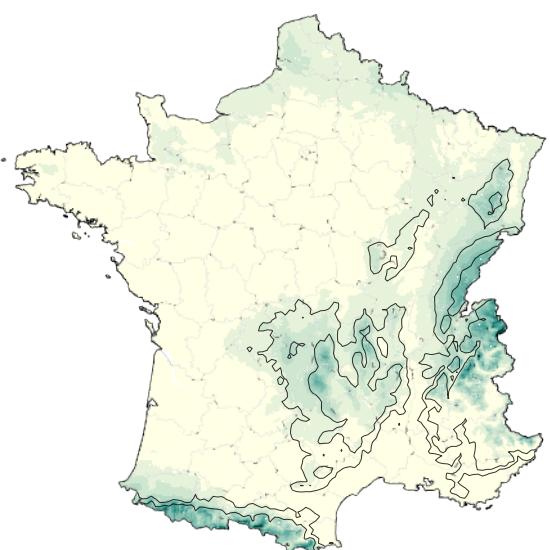
**DJF**  
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ME = 20.54  
 $n = 511$



**MAM**  
 $r = 0.94$   
ME = 18.02  
 $n = 589$



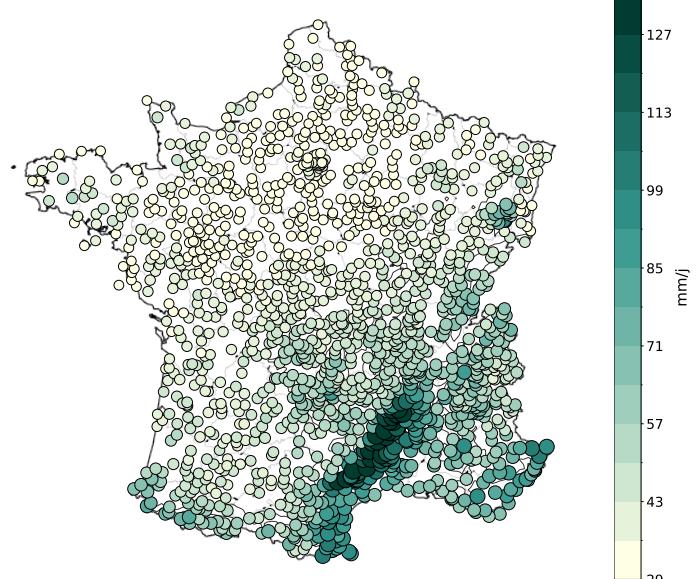
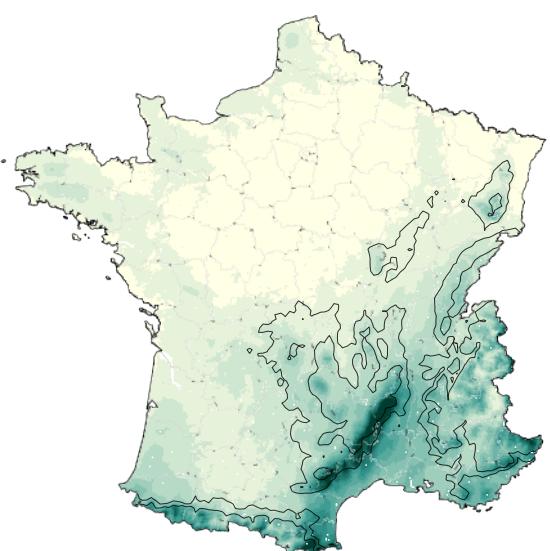
**JJA**  
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ME = -25.89  
 $n = 606$



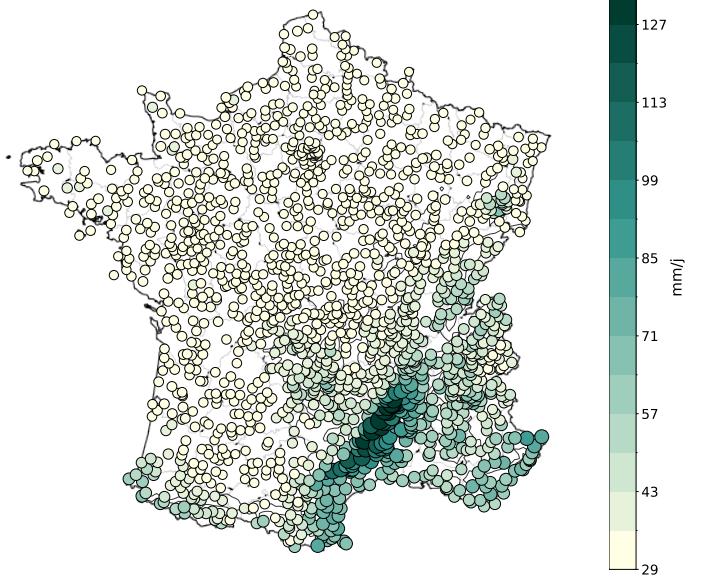
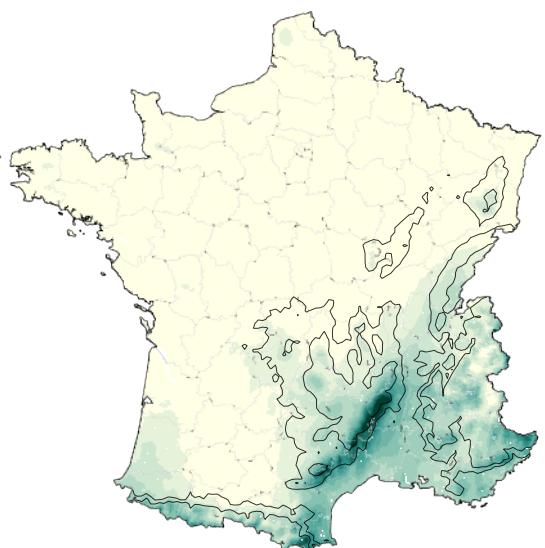
### 3 Moyenne des maxima des précipitations

#### 3.1 Données journalières (1959-2022)

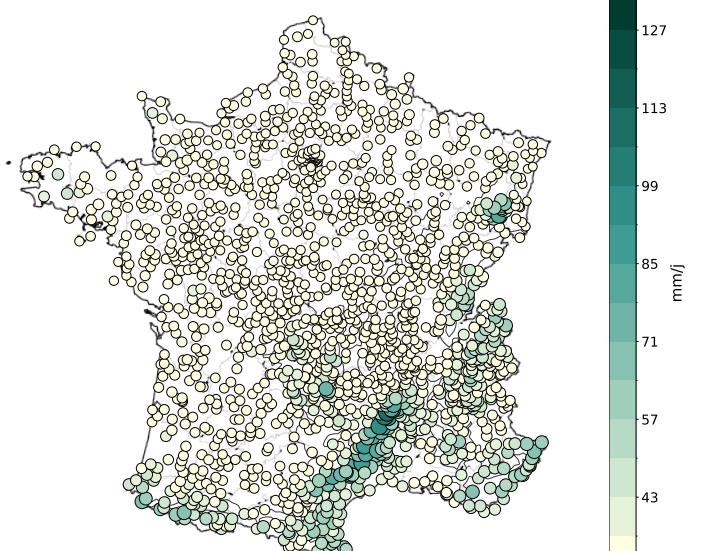
**HYDRO**  
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ME = -1.18  
 $n = 1583$



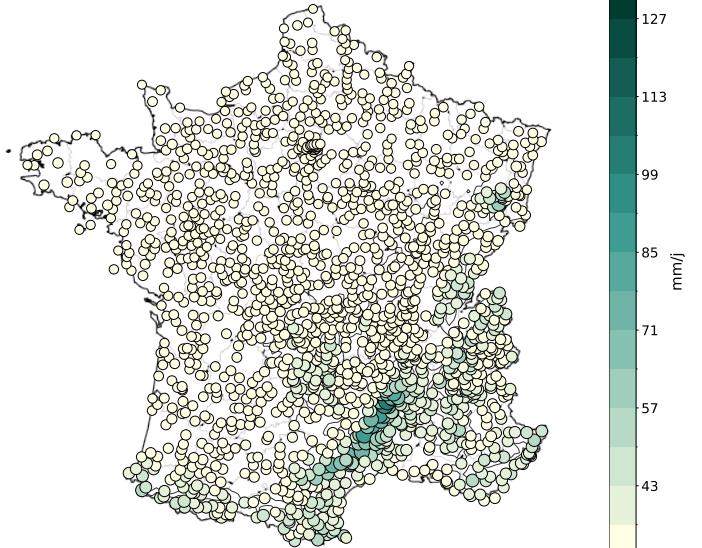
**SON**  
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ME = -0.41  
 $n = 1664$



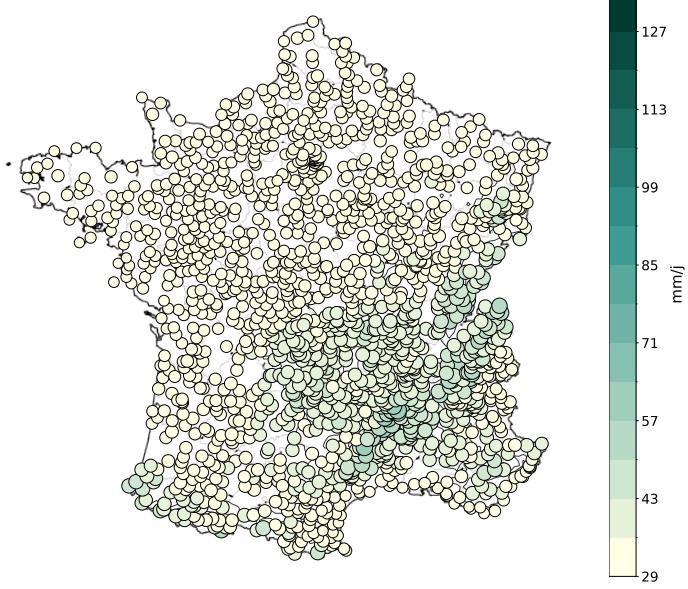
**DJF**  
 $r = 0.96$   
ME = 0.01  
 $n = 1603$



**MAM**  
 $r = 0.95$   
ME = -0.02  
 $n = 1650$

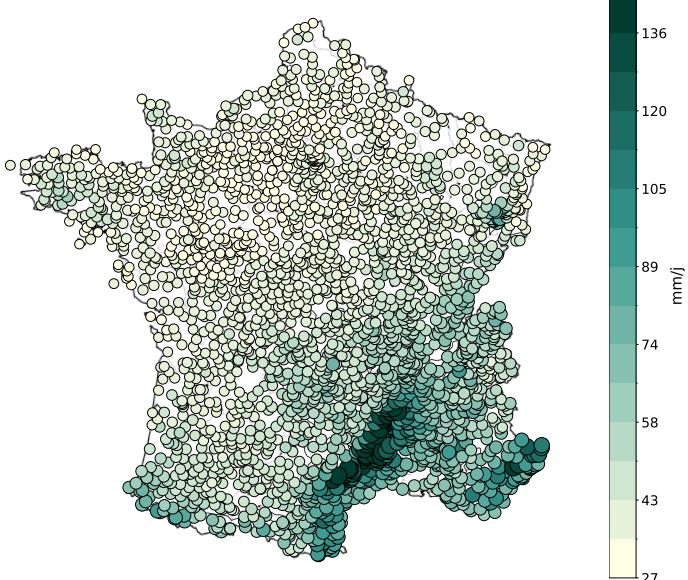
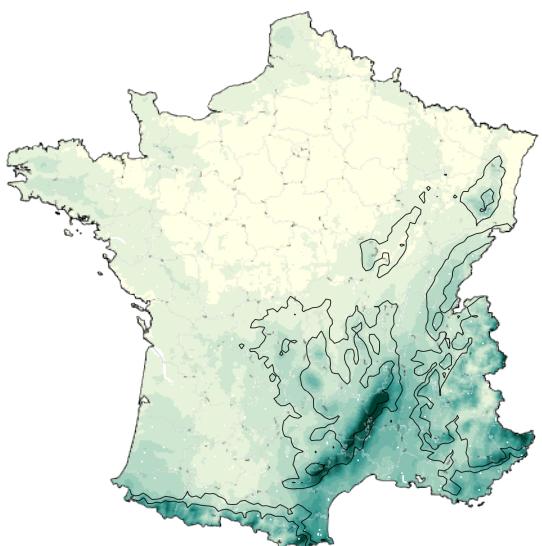


**JJA**  
 $r = 0.87$   
ME = -3.05  
 $n = 1640$

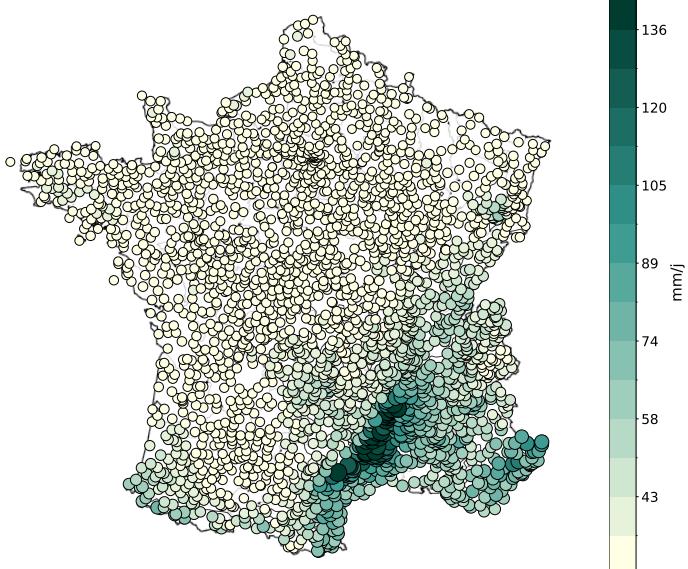
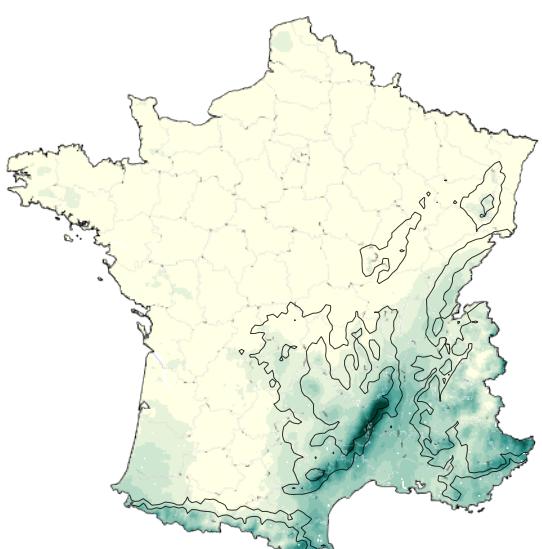


### 3.2 Données journalières (1990-2022)

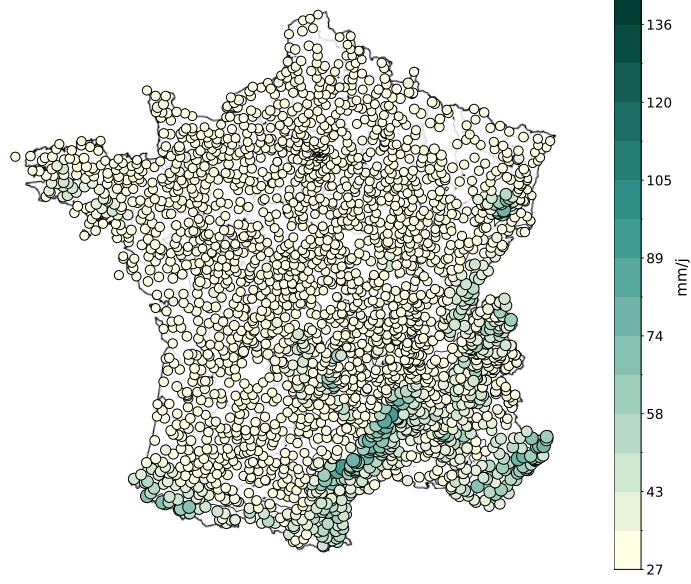
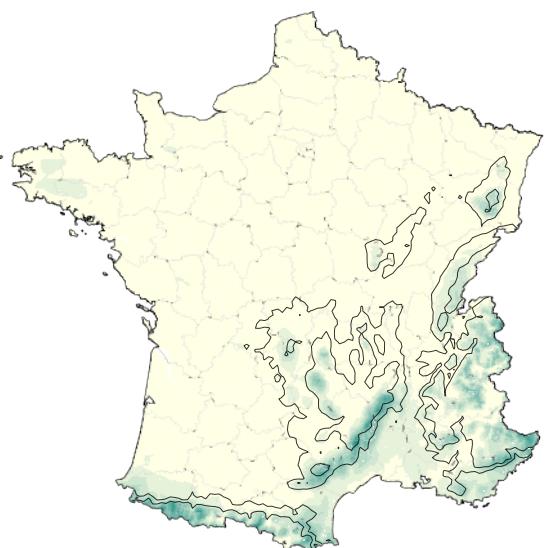
**HYDRO**  
 $r = 0.96$   
ME = -2.54  
 $n = 2613$



**SON**  
 $r = 0.96$   
ME = -1.21  
 $n = 2719$



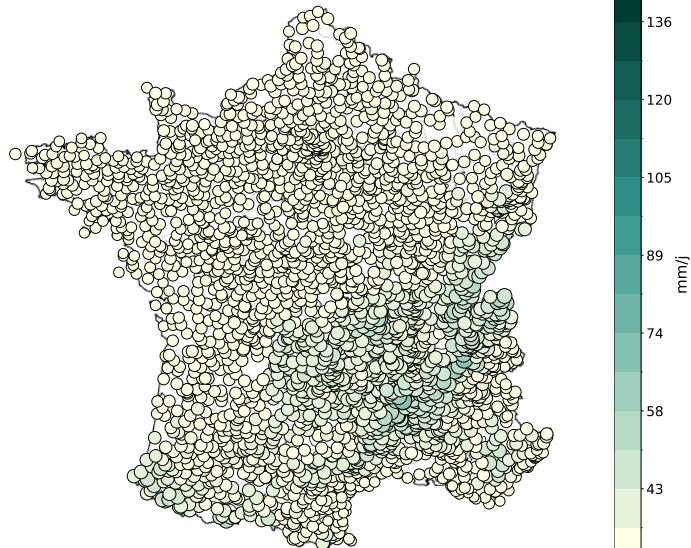
**DJF**  
 $r = 0.94$   
ME = -0.25  
 $n = 2663$



**MAM**  
 $r = 0.94$   
ME = -0.33  
 $n = 2729$

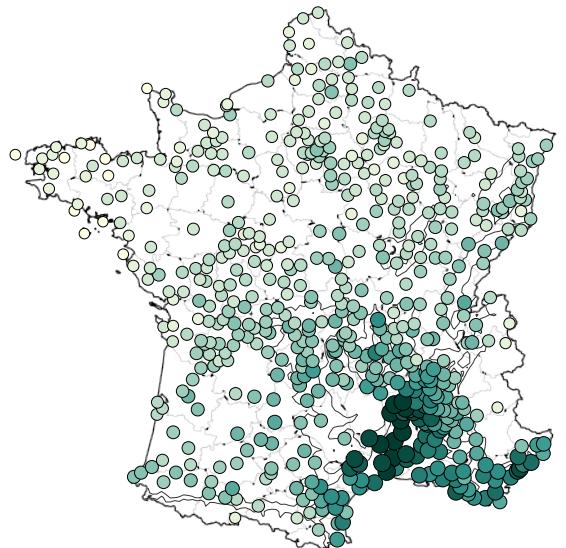
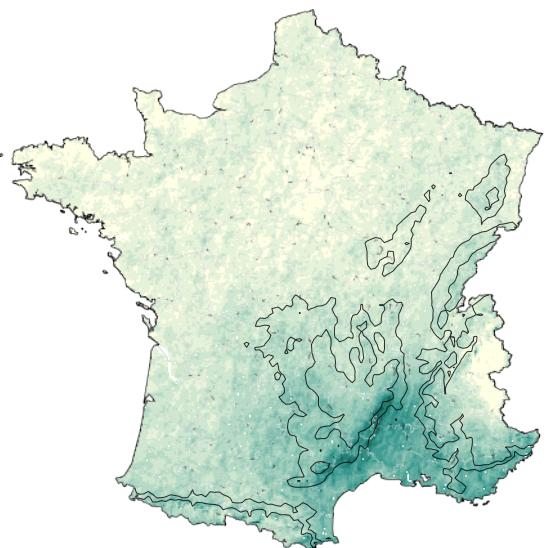


**JJA**  
 $r = 0.83$   
ME = -4.29  
 $n = 2718$

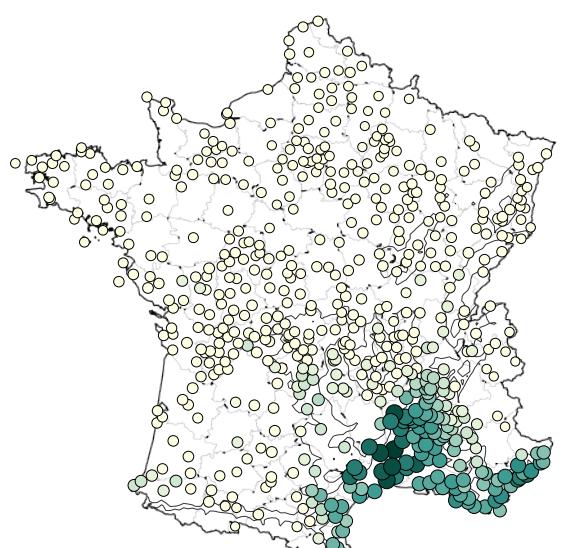
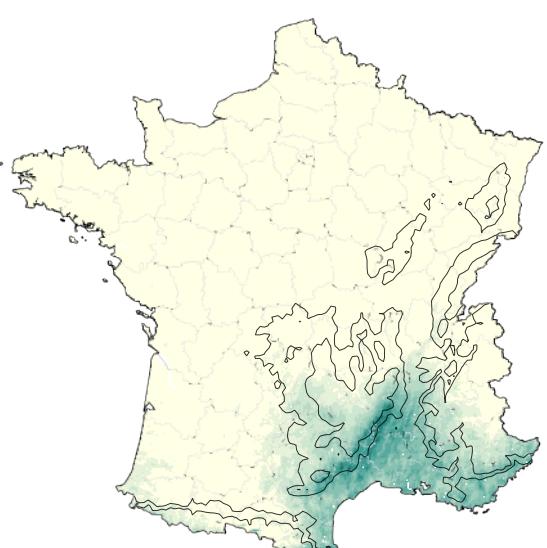


### 3.3 Données horaires (1990-2022)

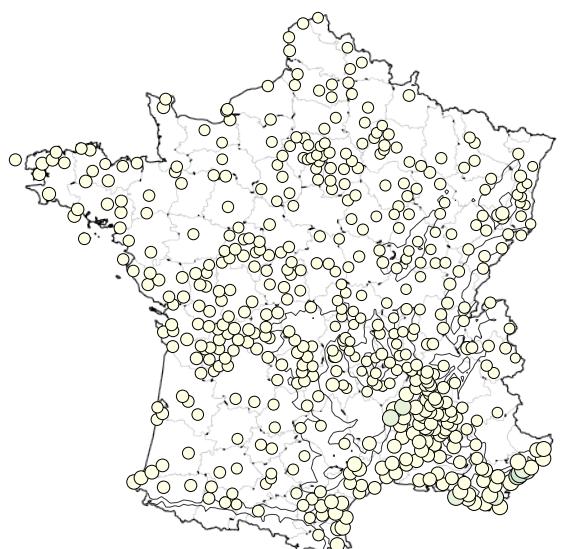
**HYDRO**  
 $r = 0.89$   
ME = -3.42  
 $n = 574$

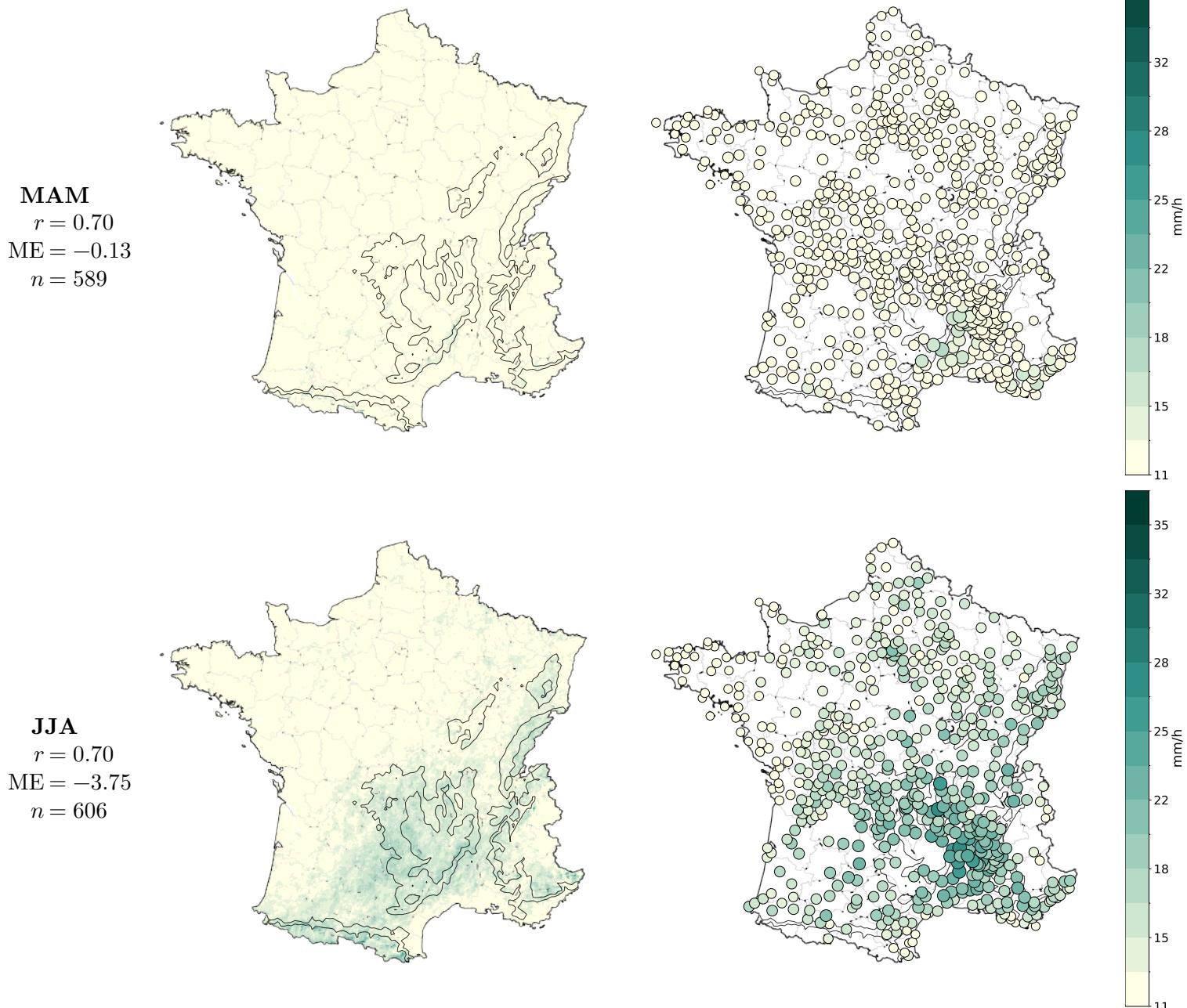


**SON**  
 $r = 0.93$   
ME = -1.18  
 $n = 609$



**DJF**  
 $r = 0.91$   
ME = -0.02  
 $n = 511$





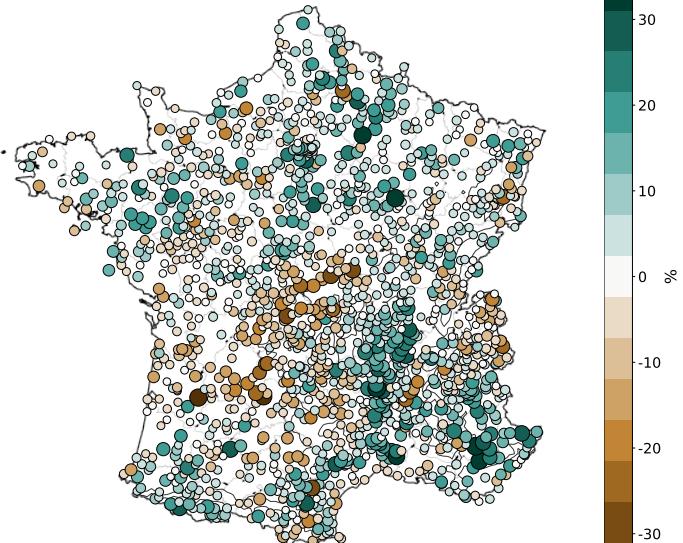
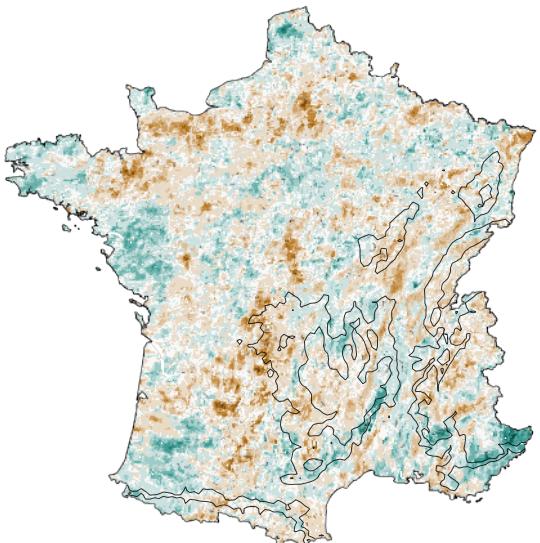
## 4 Tendances relatives du niveau de retour 10 ans estimée par le meilleur modèle

### 4.1 Données journalières (1959-2022)

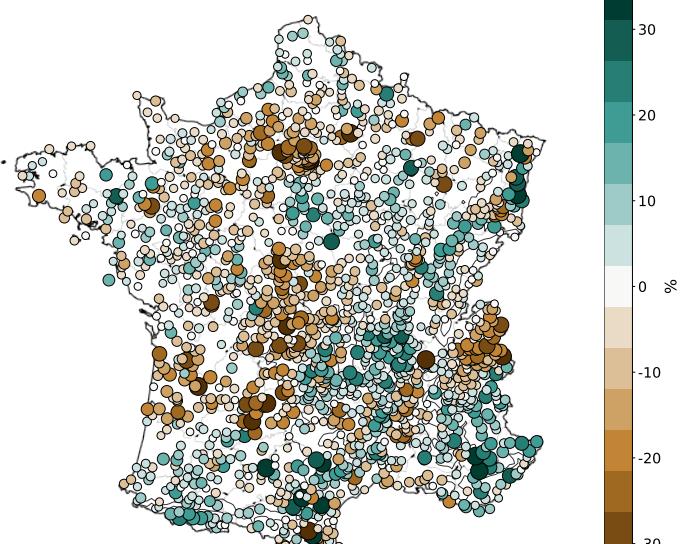
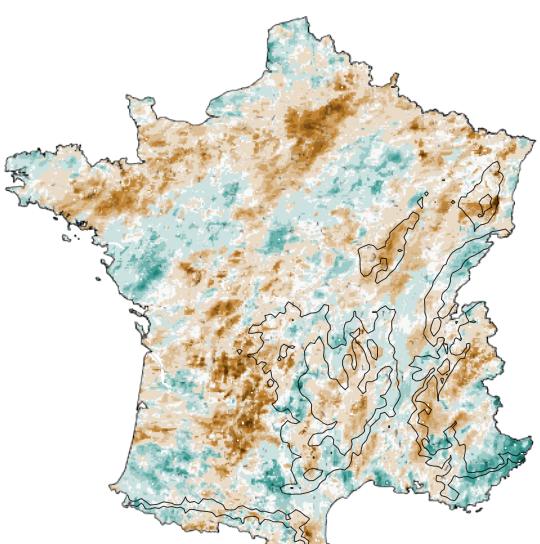
#### 4.1.1 Par saison

##### 4.1.1.1 Toutes tendances

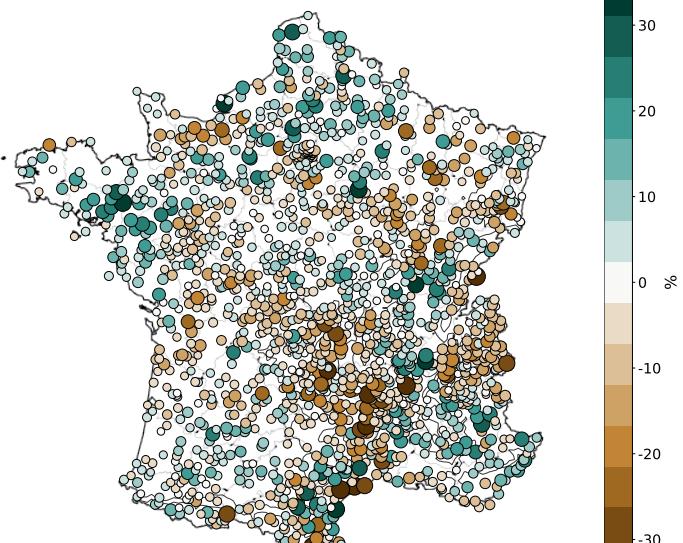
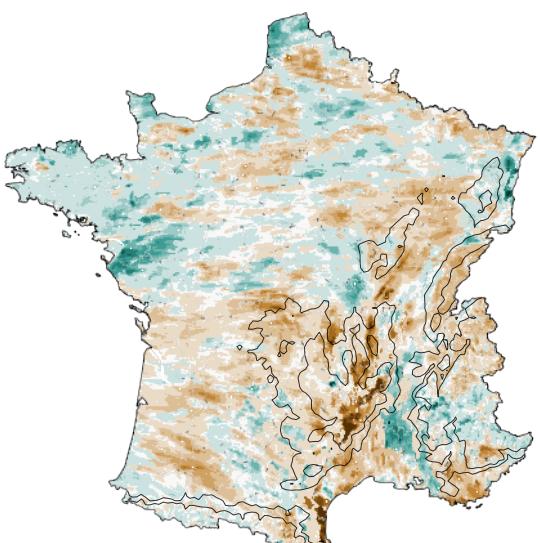
**HYDRO**  
 $r = 0.14$   
ME = -2.74  
 $n = 1583$



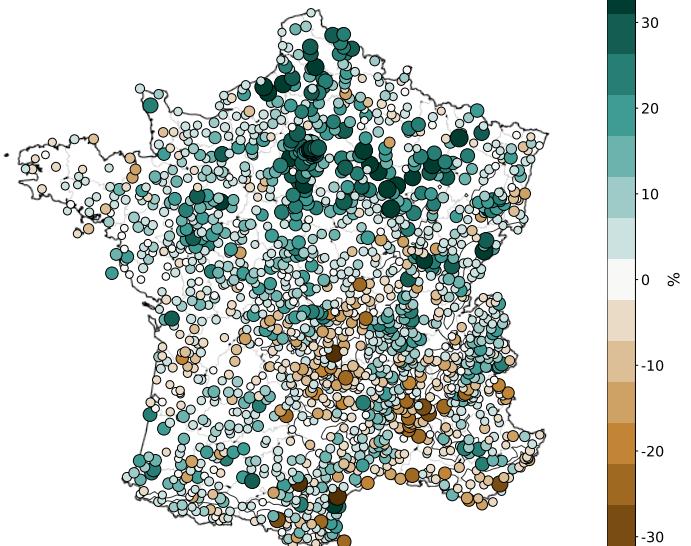
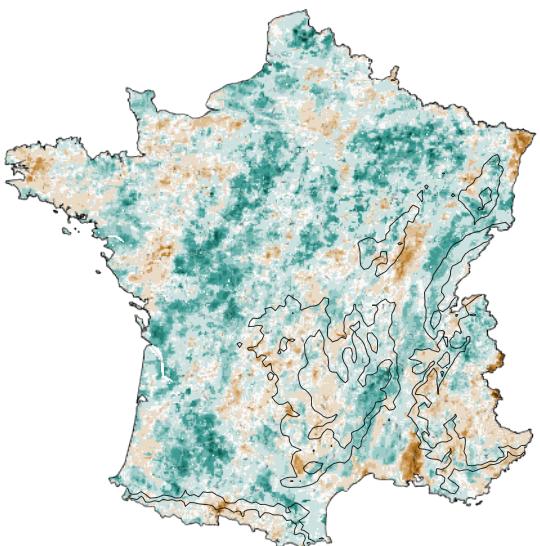
**SON**  
 $r = 0.21$   
ME = -1.44  
 $n = 1664$



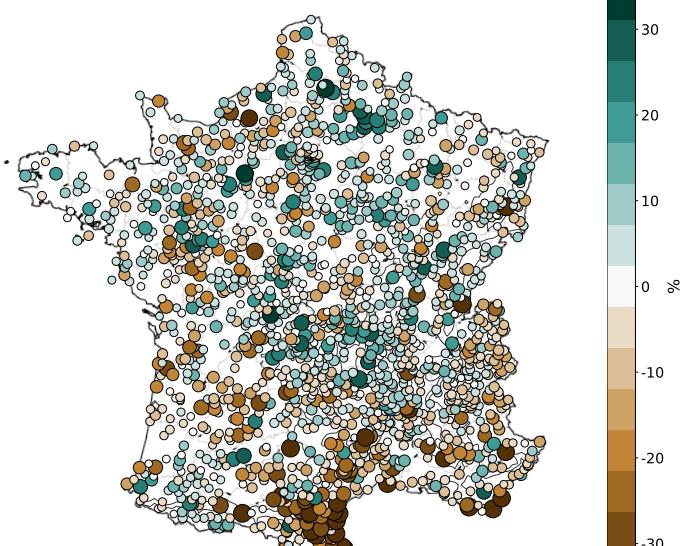
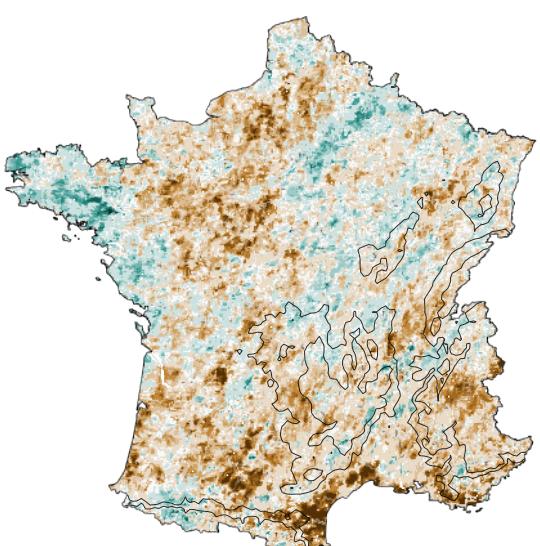
**DJF**  
 $r = 0.23$   
ME = -1.89  
 $n = 1603$



**MAM**  
 $r = 0.21$   
ME = -1.00  
 $n = 1650$

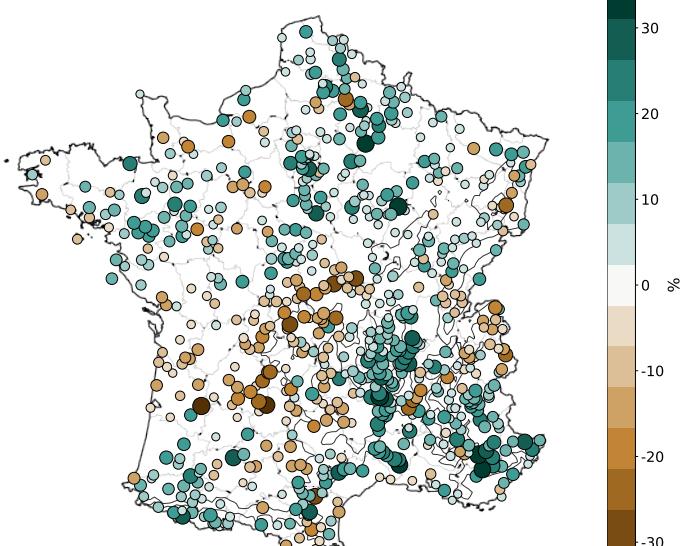
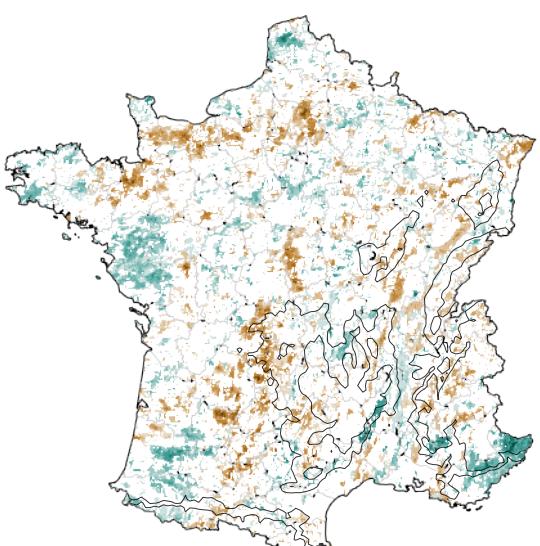


**JJA**  
 $r = 0.16$   
ME = -3.79  
 $n = 1640$

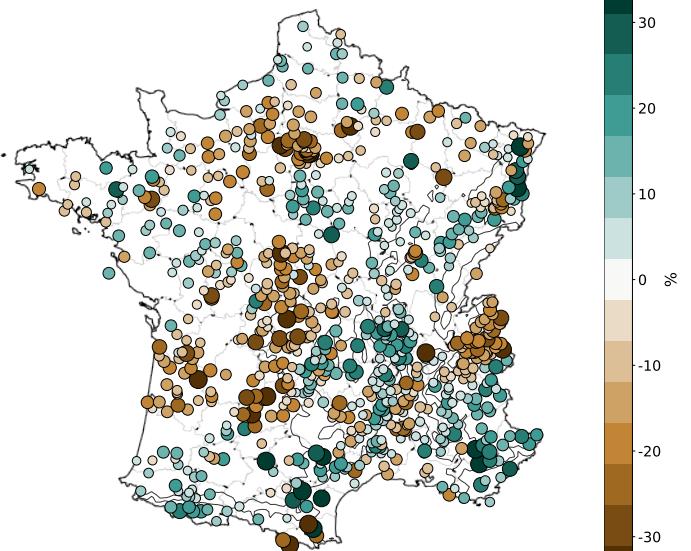
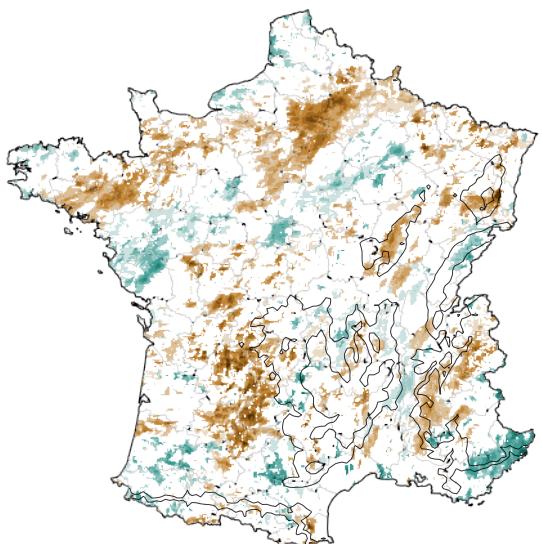


#### 4.1.1.2 Tendances significatives

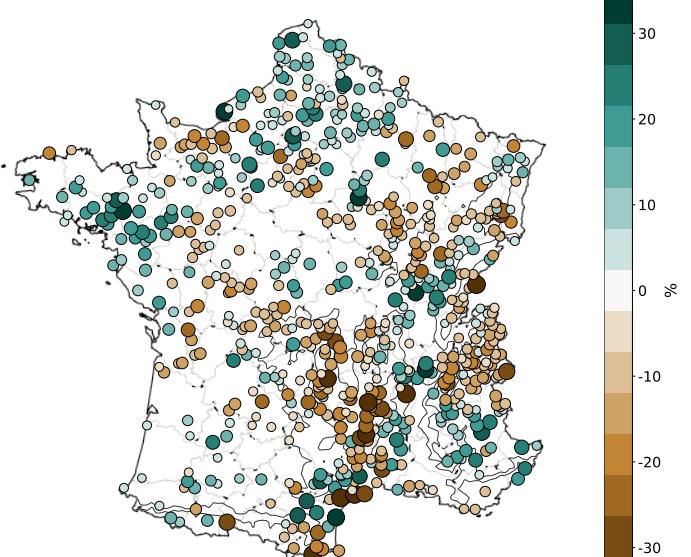
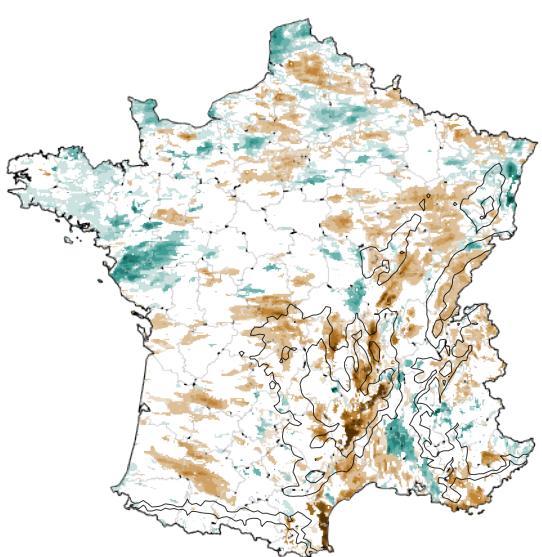
**HYDRO**  
 $r = 0.24$   
ME = -4.87  
 $n = 250$



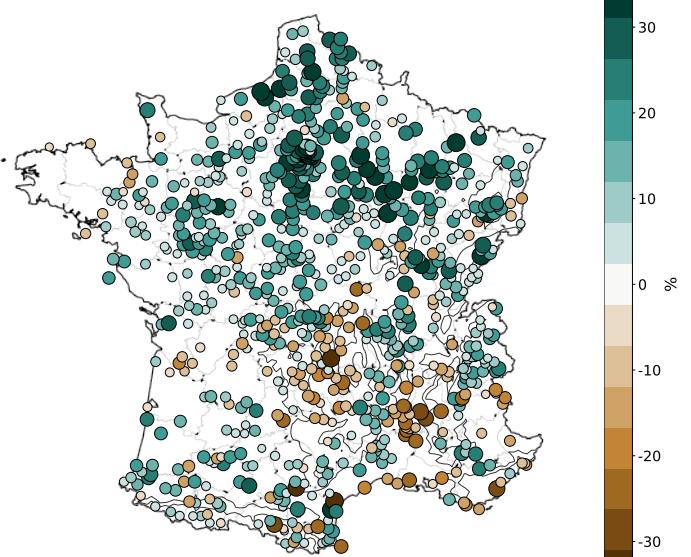
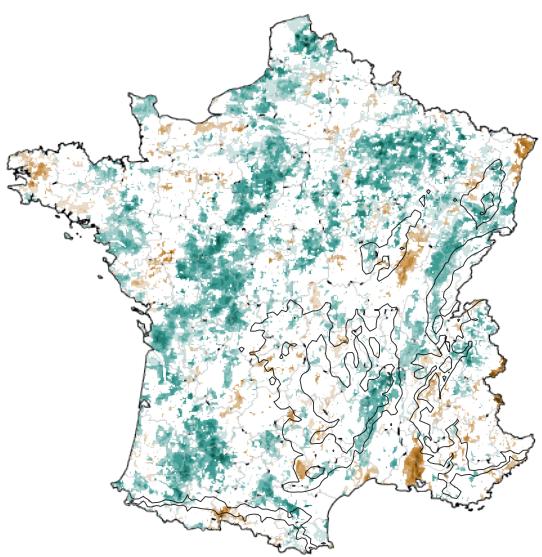
**SON**  
 $r = 0.31$   
ME = -3.01  
 $n = 305$

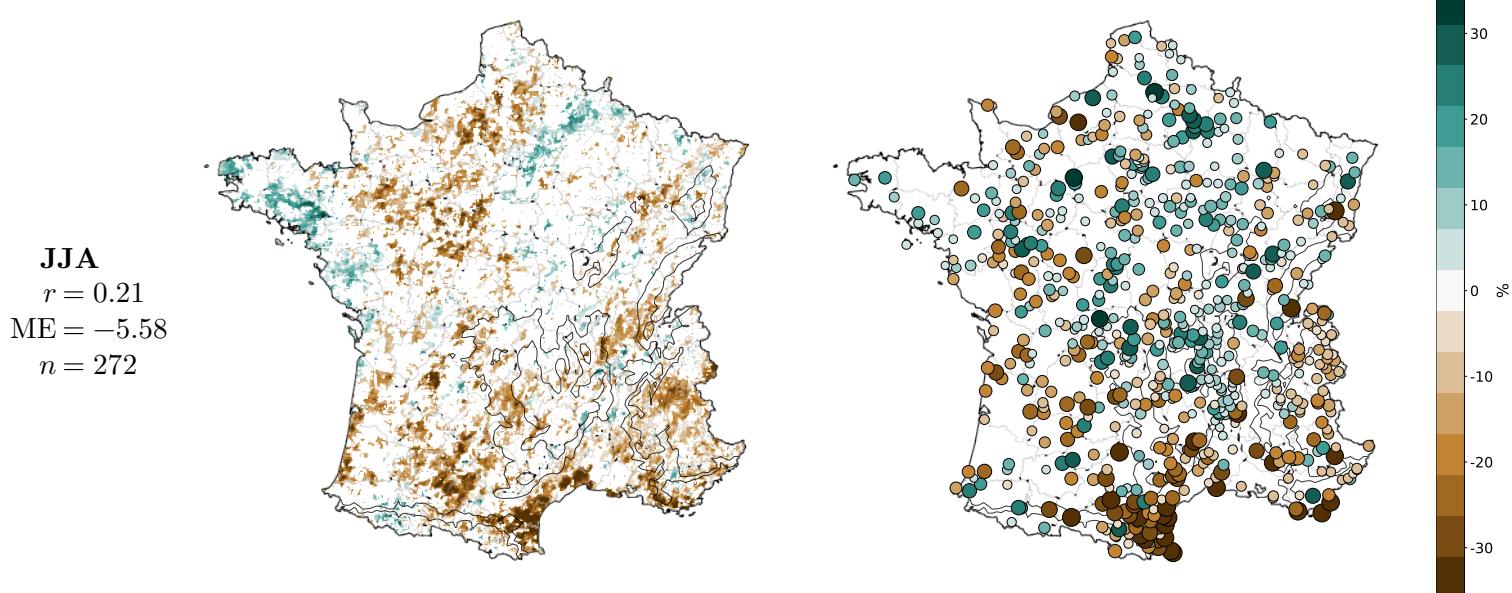


**DJF**  
 $r = 0.39$   
ME = -2.76  
 $n = 353$



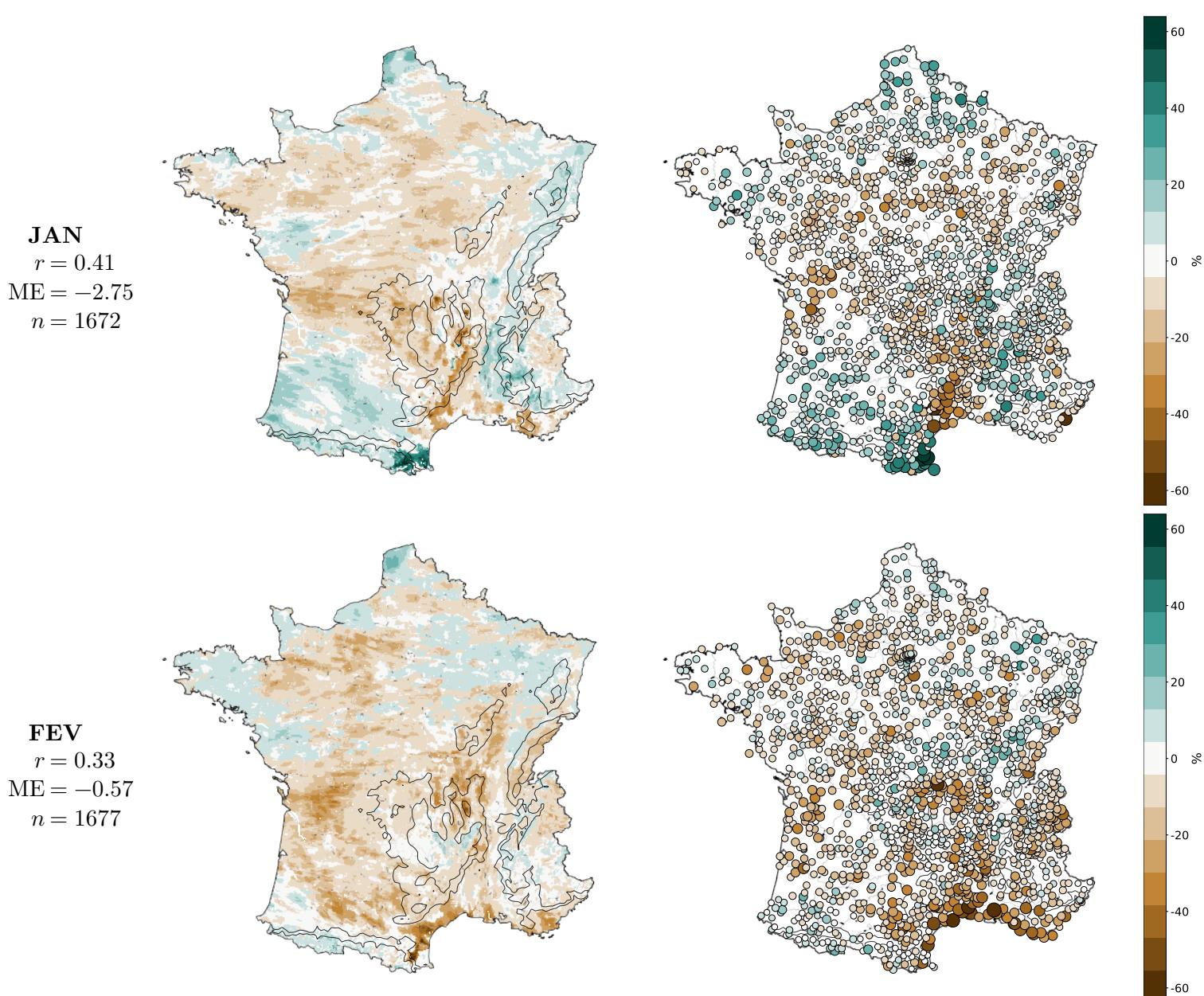
**MAM**  
 $r = 0.19$   
ME = -2.42  
 $n = 344$



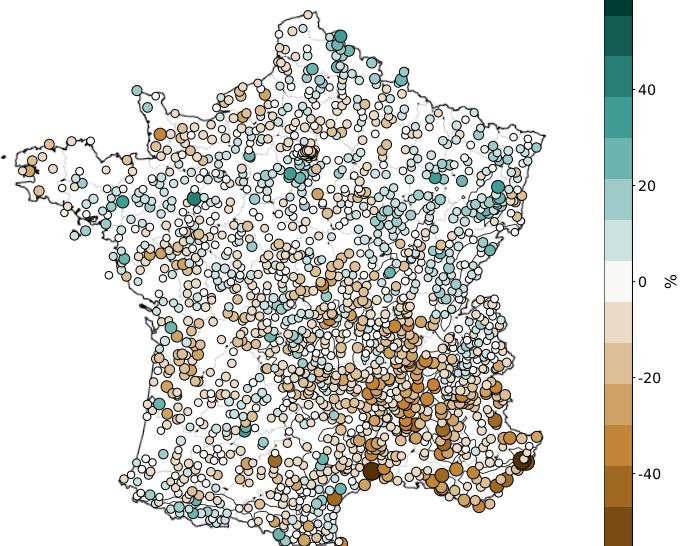
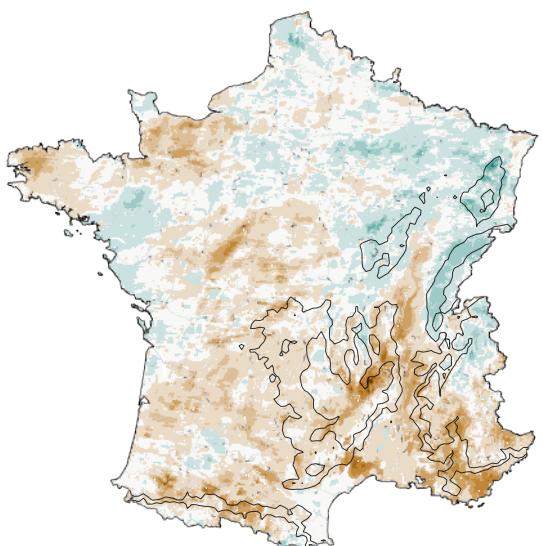


#### 4.1.2 Par mois

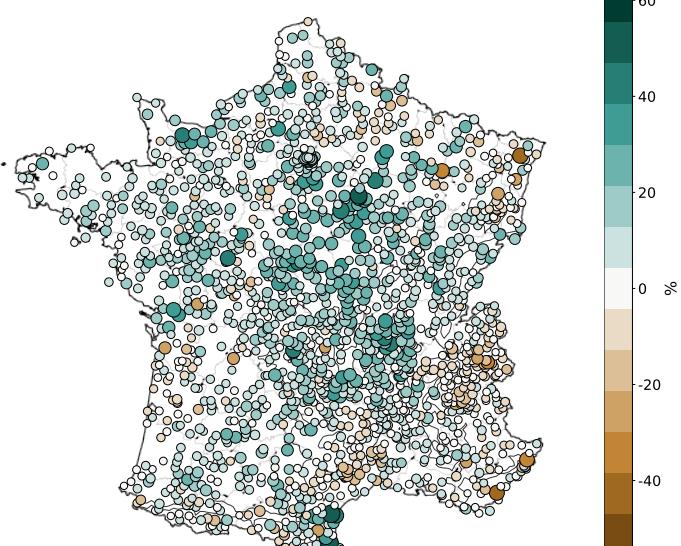
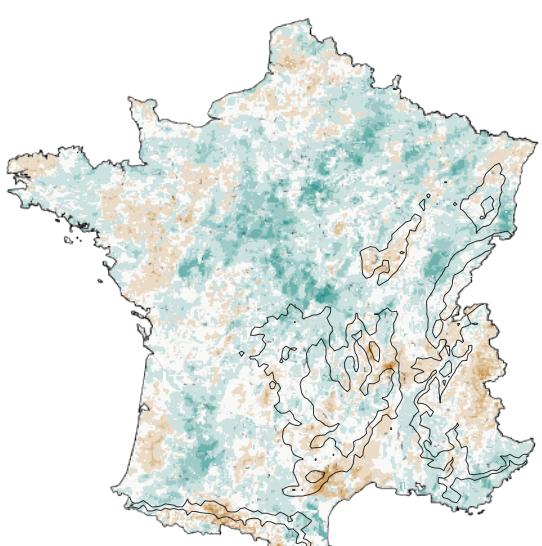
##### 4.1.2.1 Toutes tendances



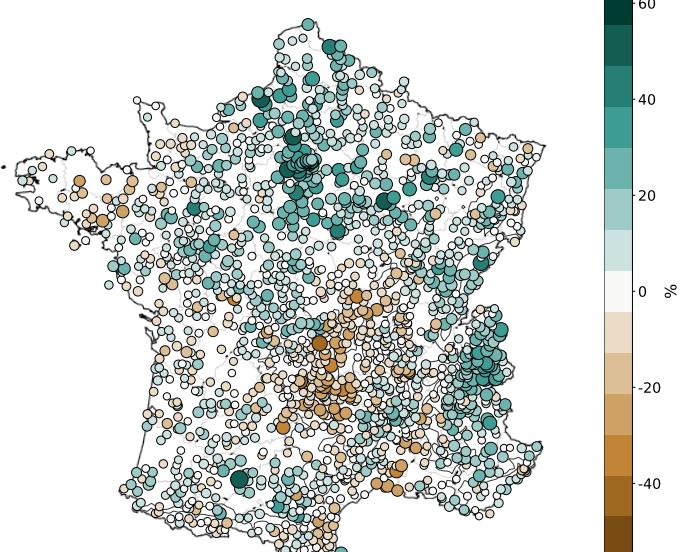
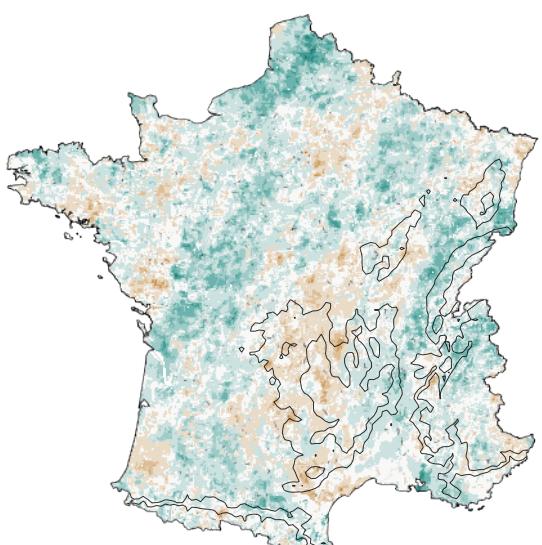
**MAR**  
 $r = 0.42$   
ME = -0.36  
 $n = 1678$



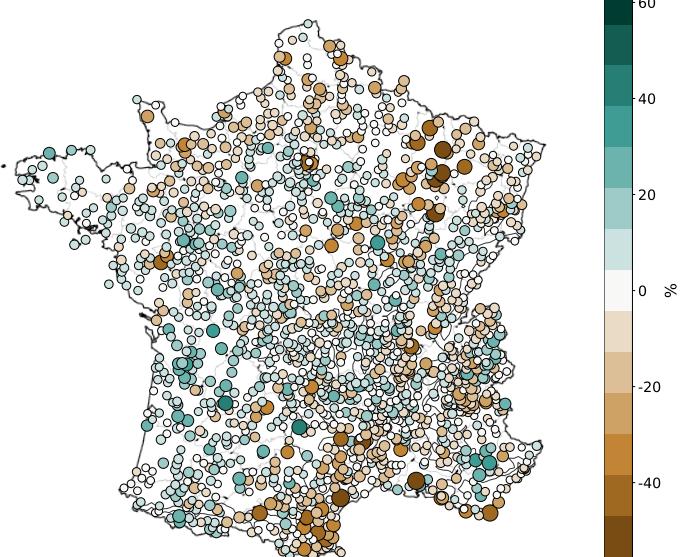
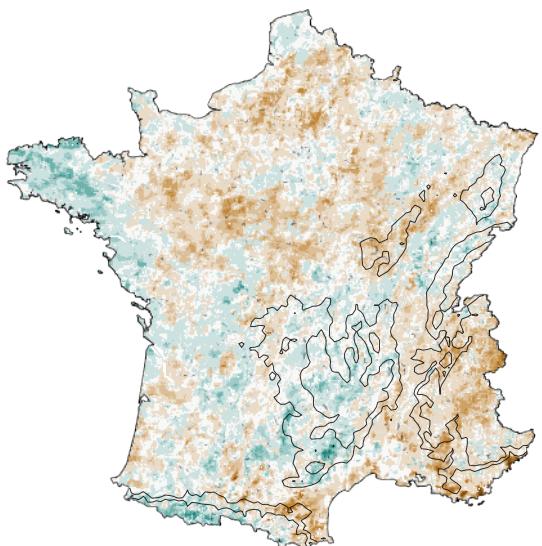
**AVR**  
 $r = 0.19$   
ME = -3.12  
 $n = 1681$



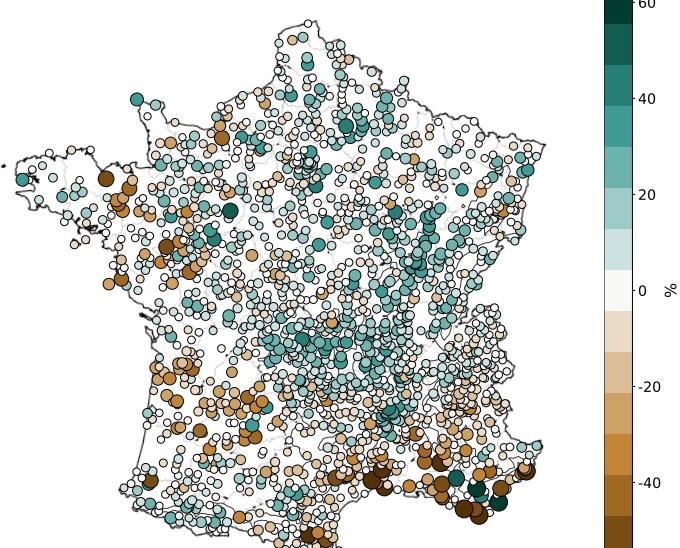
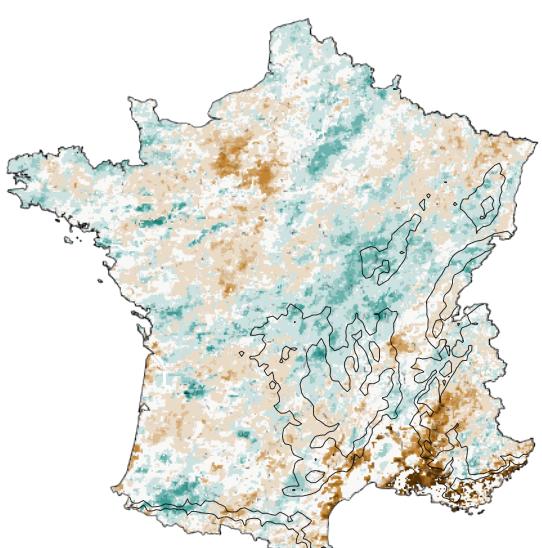
**MAI**  
 $r = 0.27$   
ME = -0.86  
 $n = 1682$



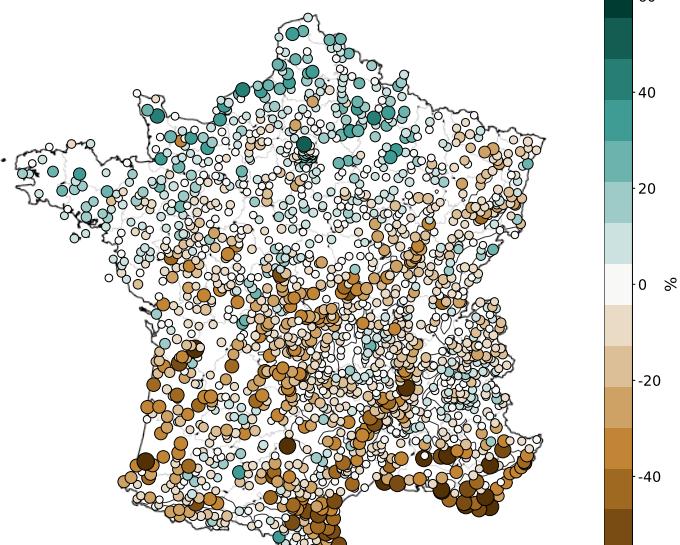
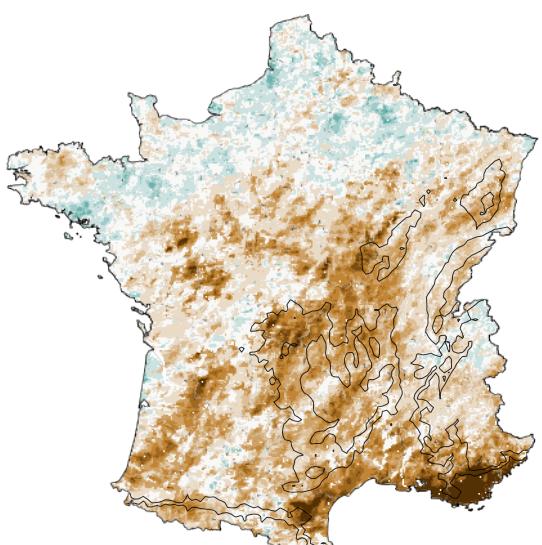
**JUI**  
 $r = 0.07$   
ME = -2.27  
 $n = 1685$



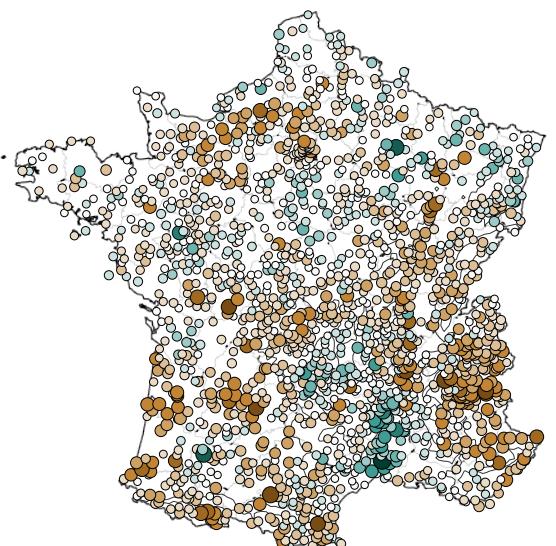
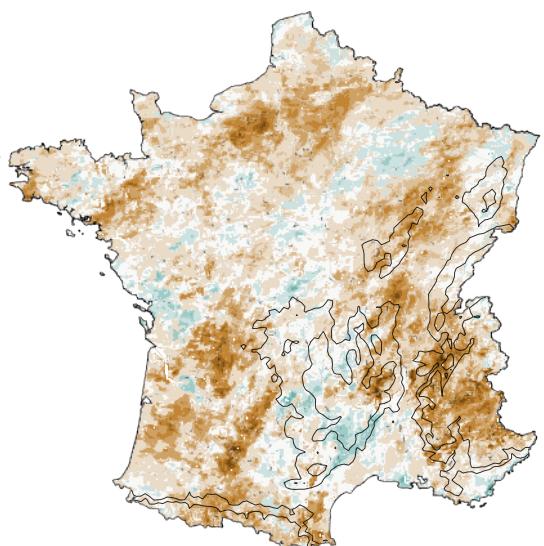
**JUILL**  
 $r = 0.25$   
ME = -1.94  
 $n = 1682$



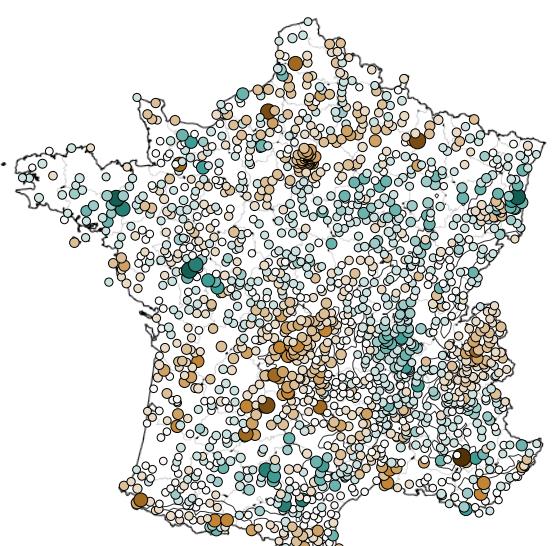
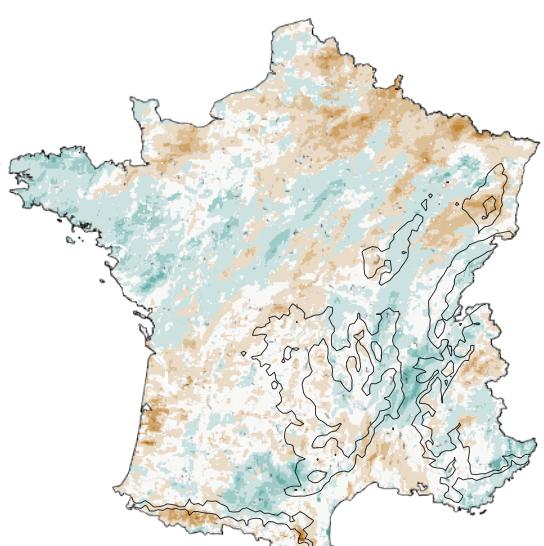
**AOU**  
 $r = 0.40$   
ME = -8.14  
 $n = 1685$



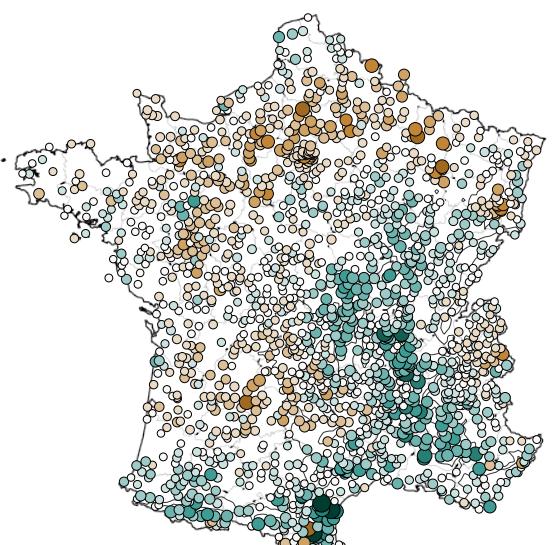
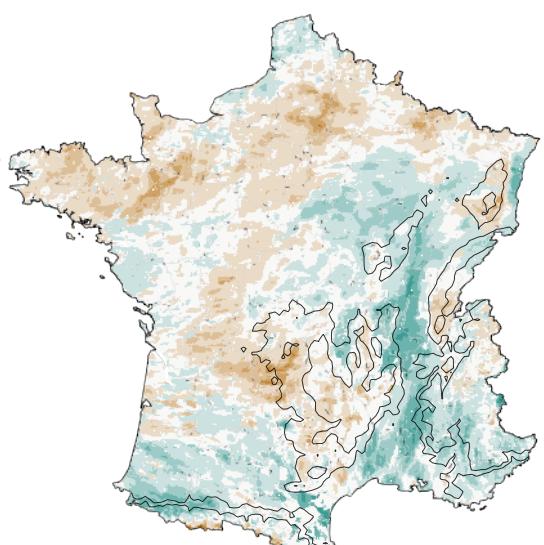
**SEP**  
 $r = 0.27$   
ME = -4.55  
 $n = 1690$

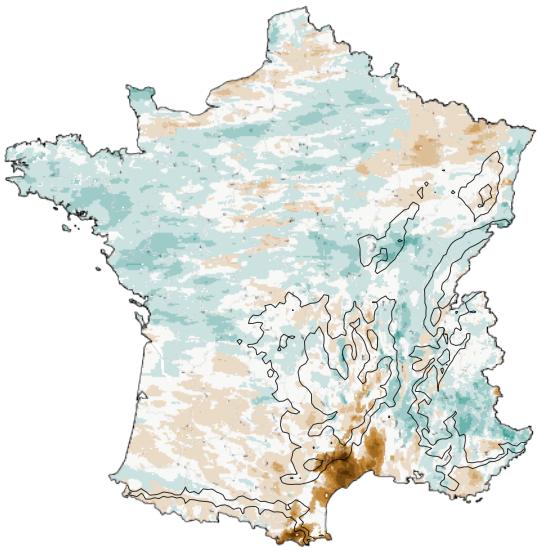


**OCT**  
 $r = 0.23$   
ME = 0.55  
 $n = 1693$

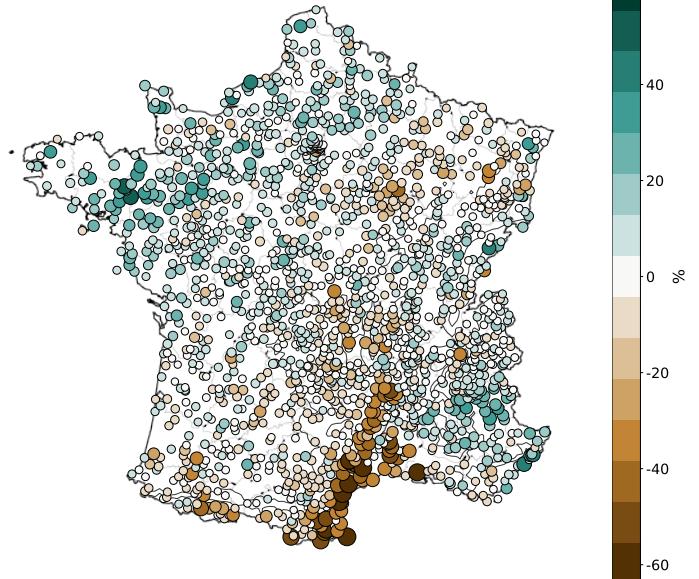


**NOV**  
 $r = 0.48$   
ME = -0.68  
 $n = 1705$

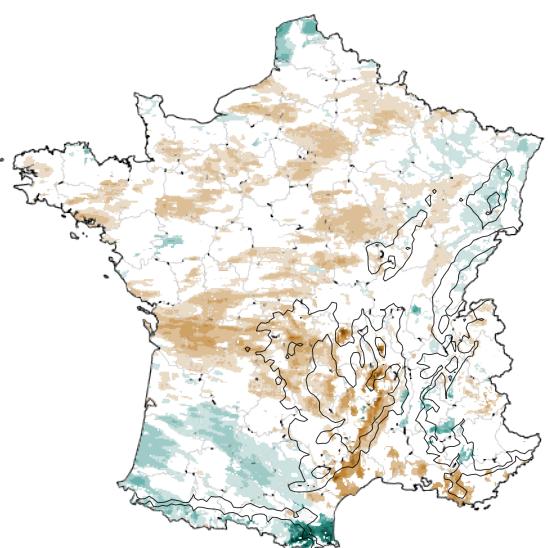




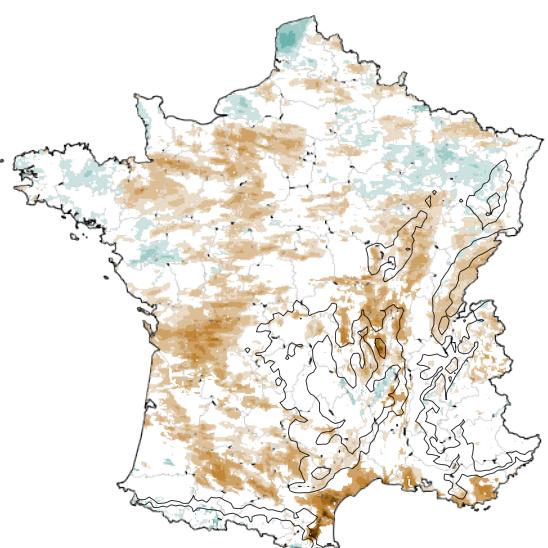
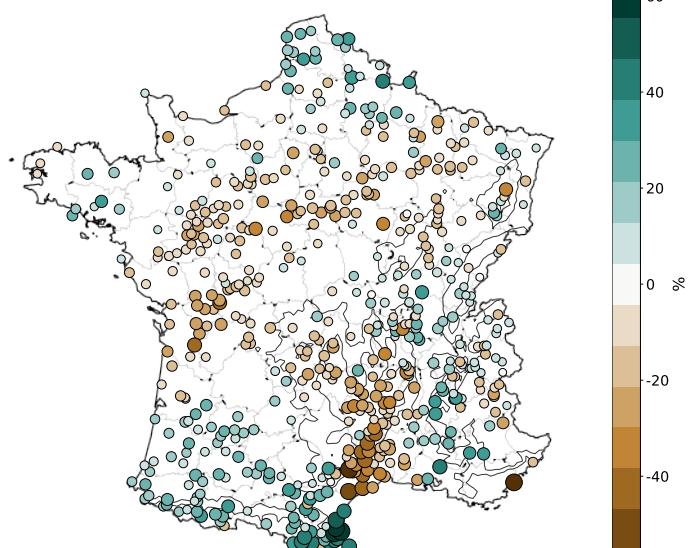
**DEC**  
 $r = 0.51$   
ME = -0.02  
 $n = 1692$



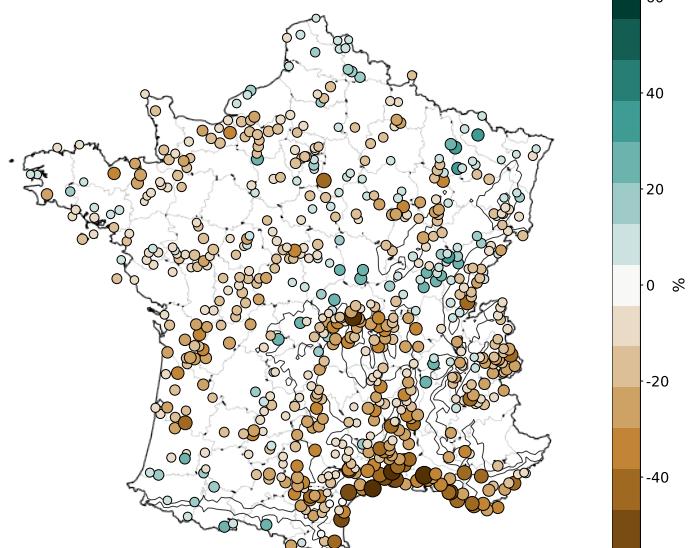
#### 4.1.2.2 Tendances significatives

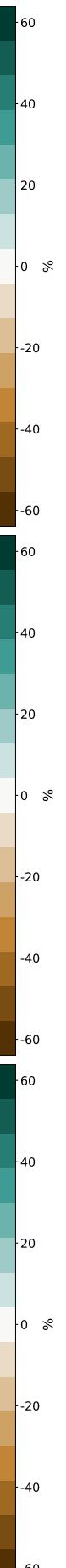


**JAN**  
 $r = 0.70$   
ME = -2.68  
 $n = 271$

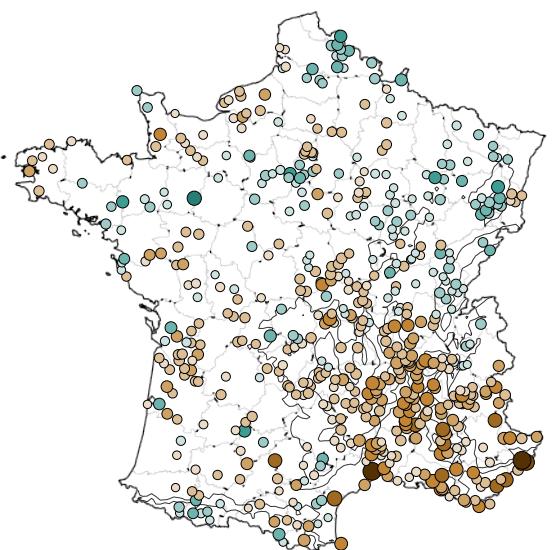
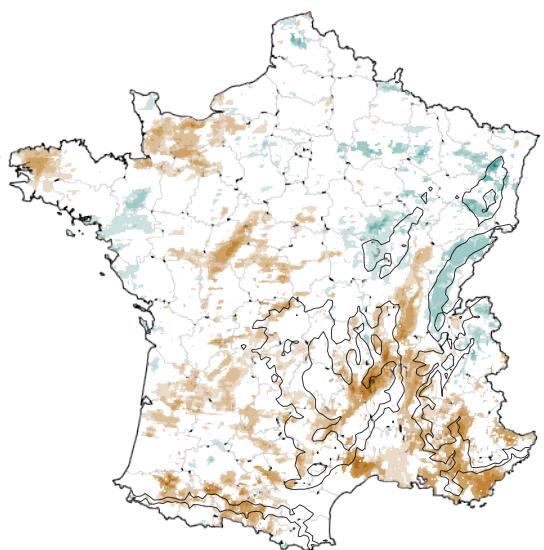


**FEV**  
 $r = 0.37$   
ME = 1.85  
 $n = 356$

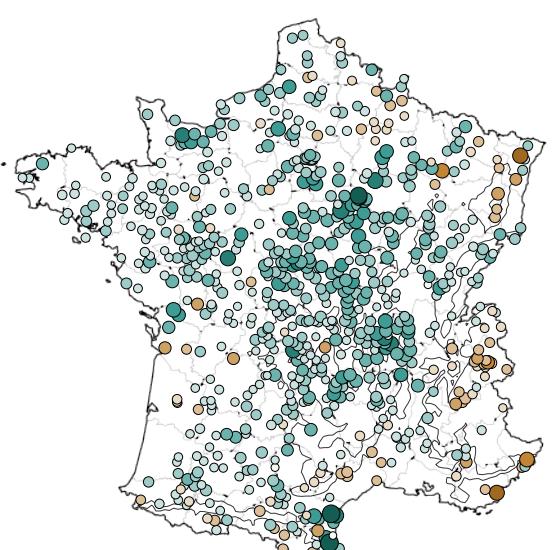
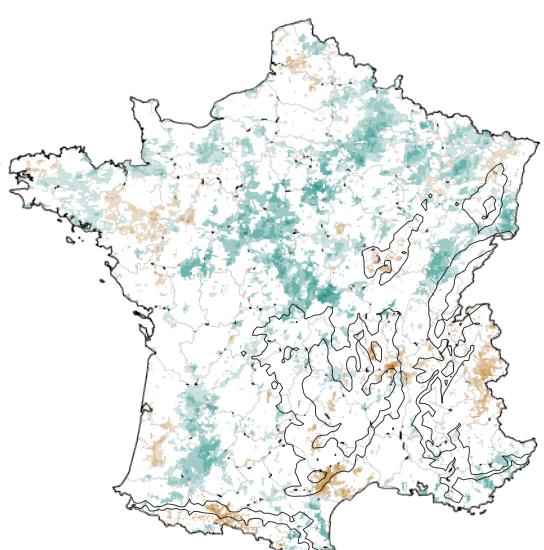




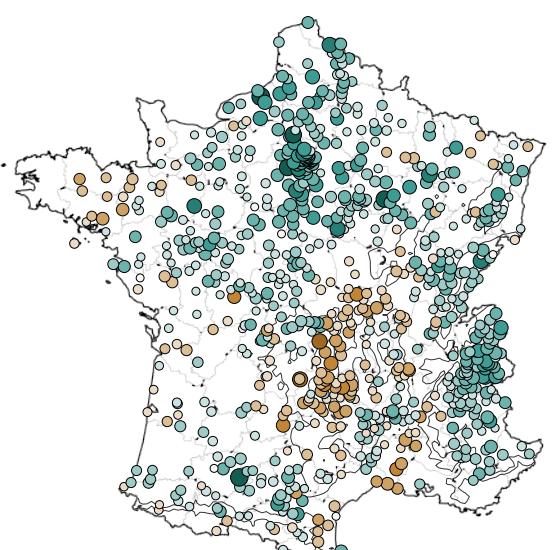
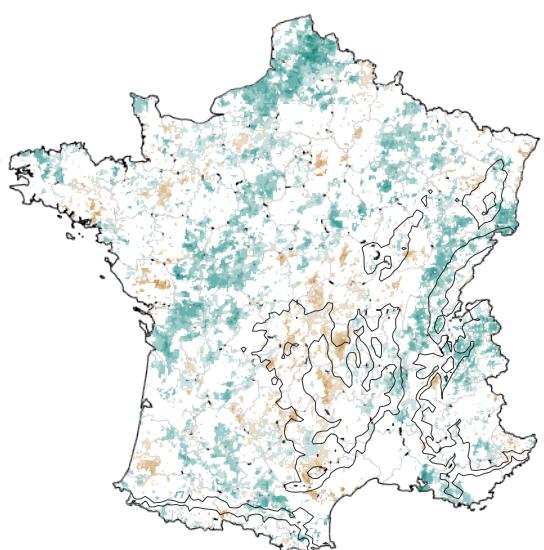
**MAR**  
 $r = 0.71$   
ME = 0.39  
 $n = 214$



**AVR**  
 $r = 0.27$   
ME = -3.61  
 $n = 256$

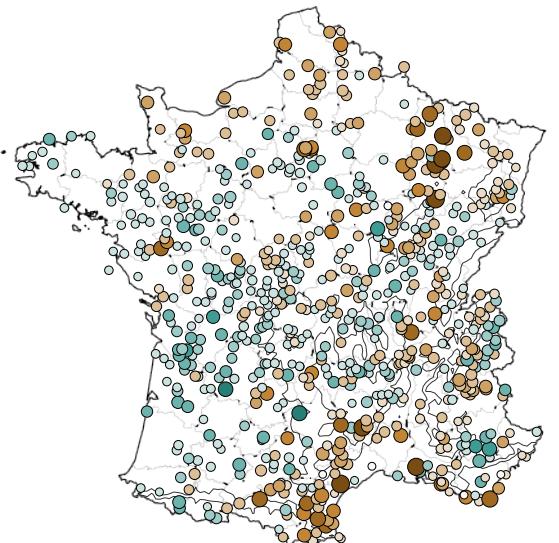
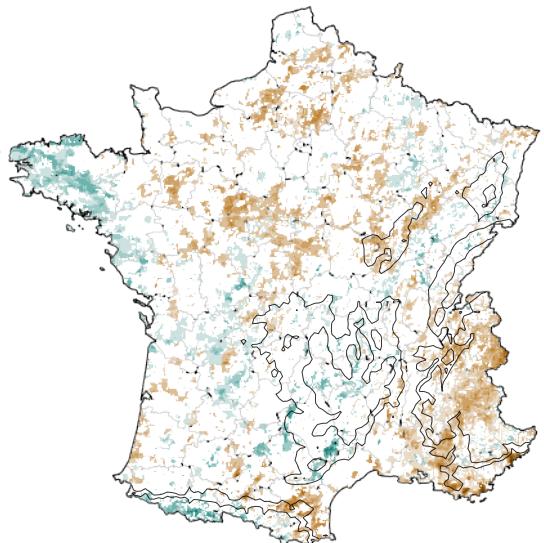


**MAI**  
 $r = 0.41$   
ME = -3.32  
 $n = 315$

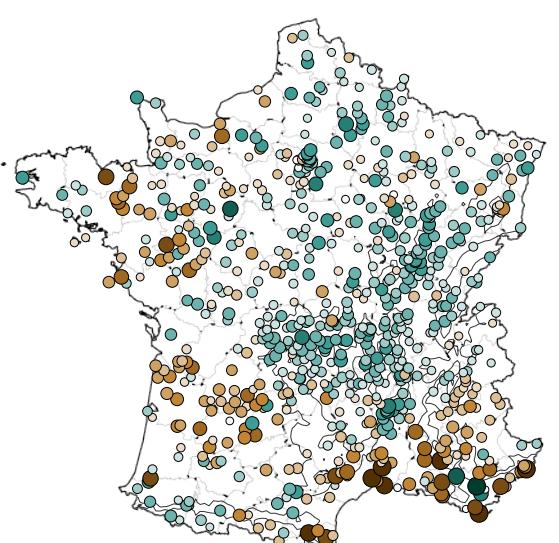
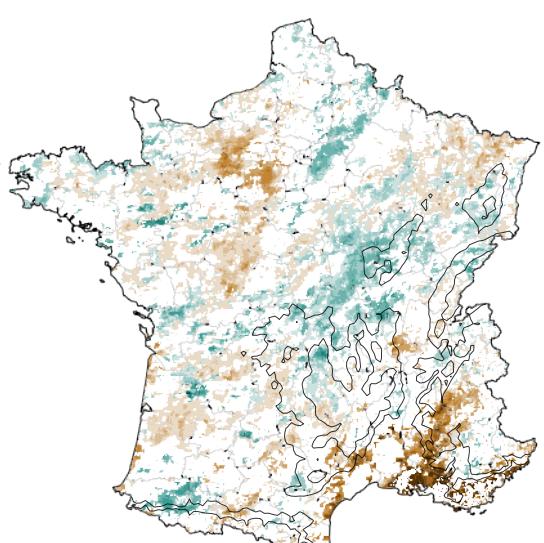




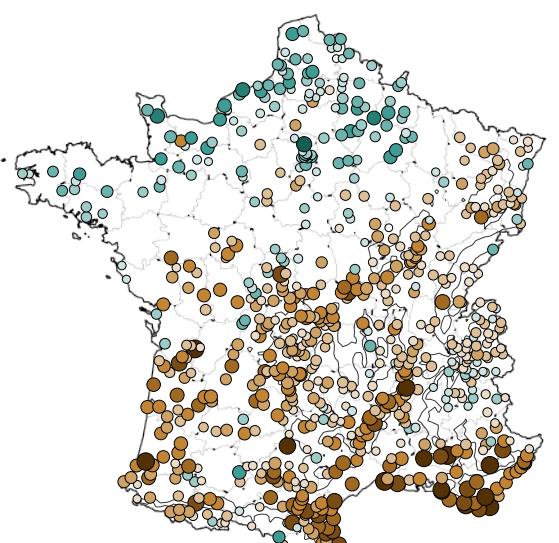
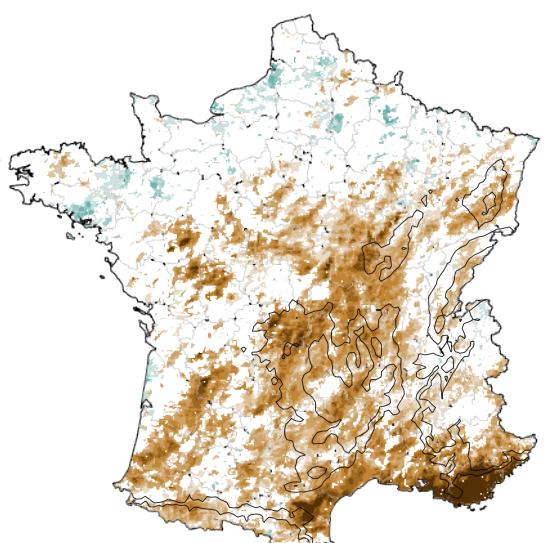
**JUI**  
 $r = 0.17$   
ME = -6.57  
 $n = 230$



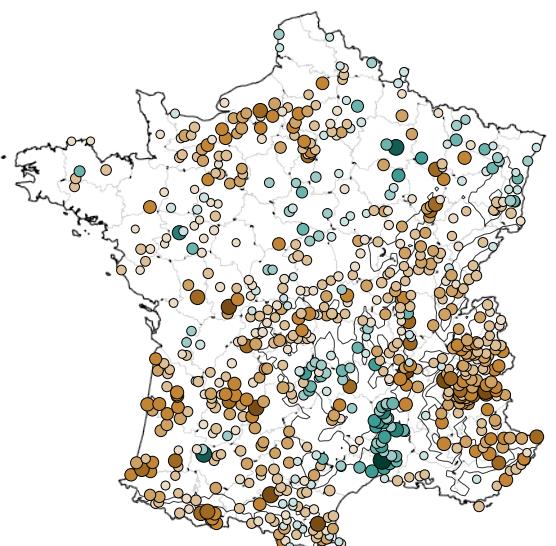
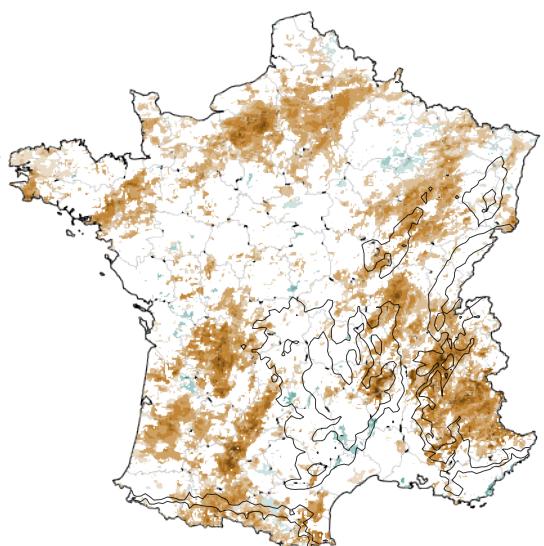
**JUILL**  
 $r = 0.41$   
ME = -3.30  
 $n = 325$



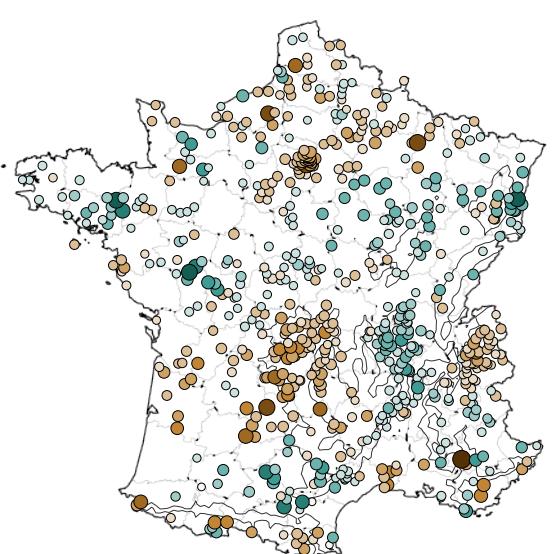
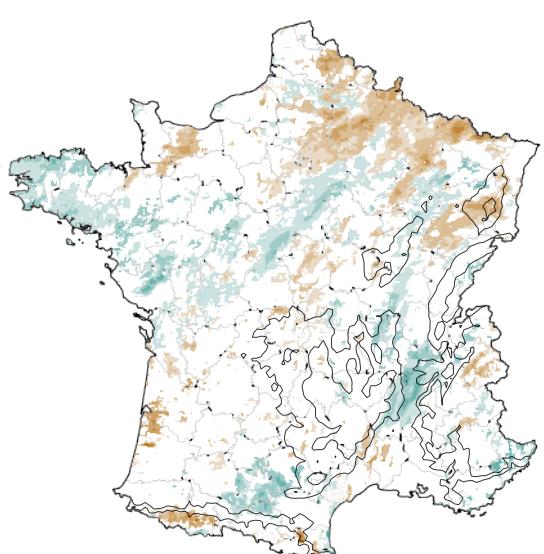
**AOU**  
 $r = 0.52$   
ME = -6.75  
 $n = 419$



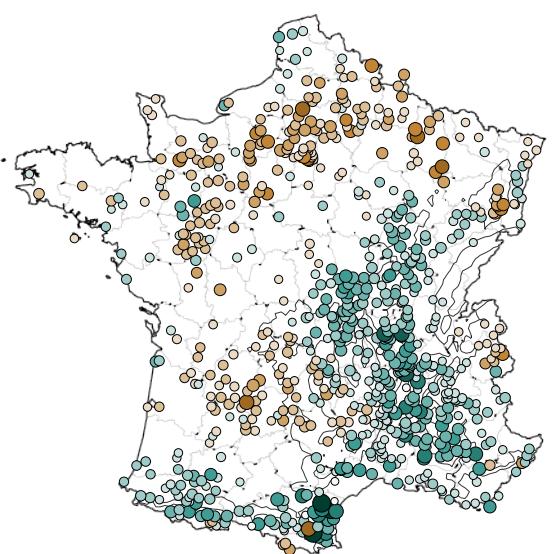
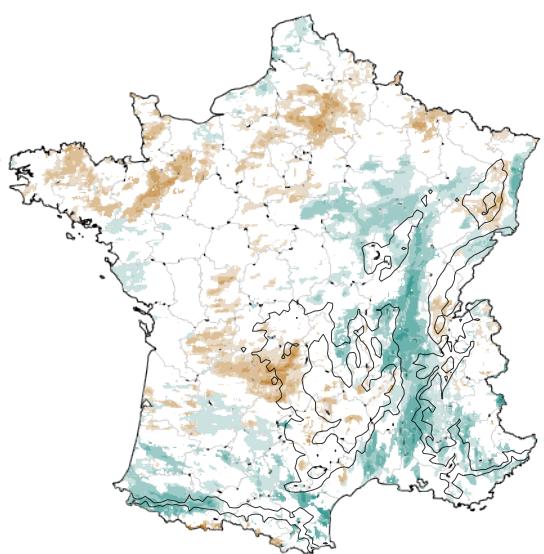
**SEP**  
 $r = 0.29$   
ME = -5.07  
 $n = 334$

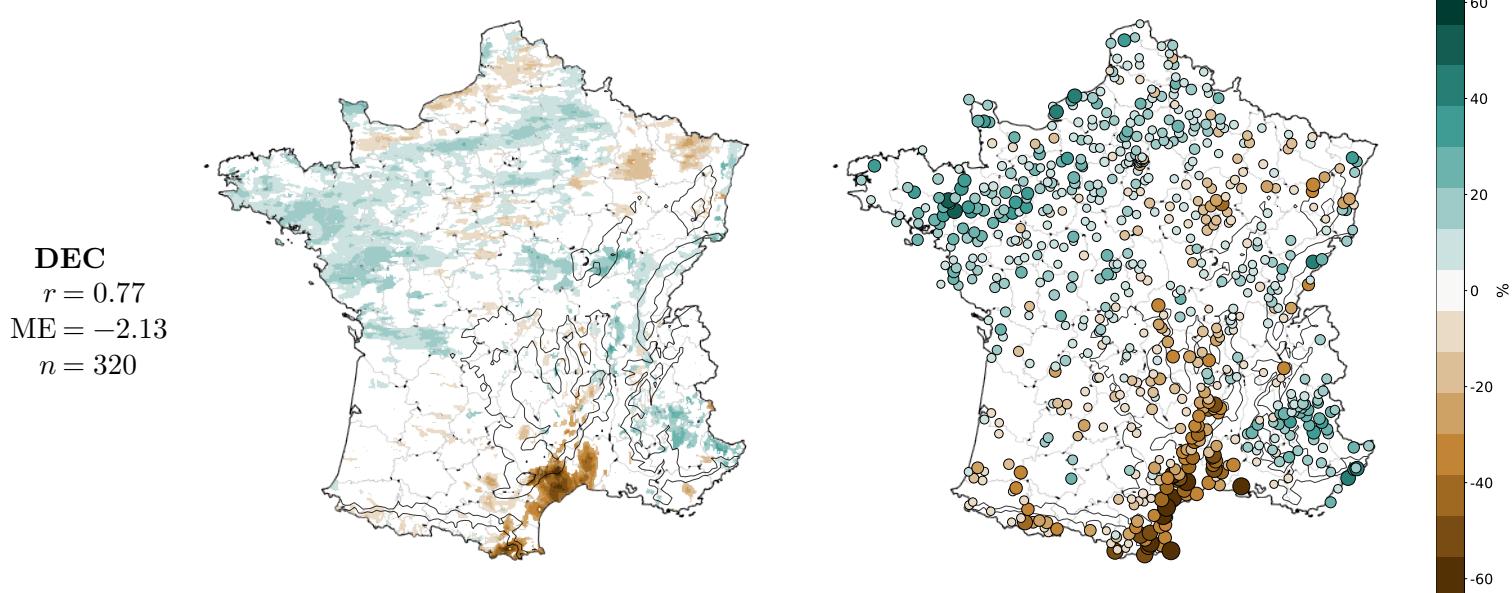


**OCT**  
 $r = 0.36$   
ME = 0.03  
 $n = 243$



**NOV**  
 $r = 0.68$   
ME = -0.43  
 $n = 350$

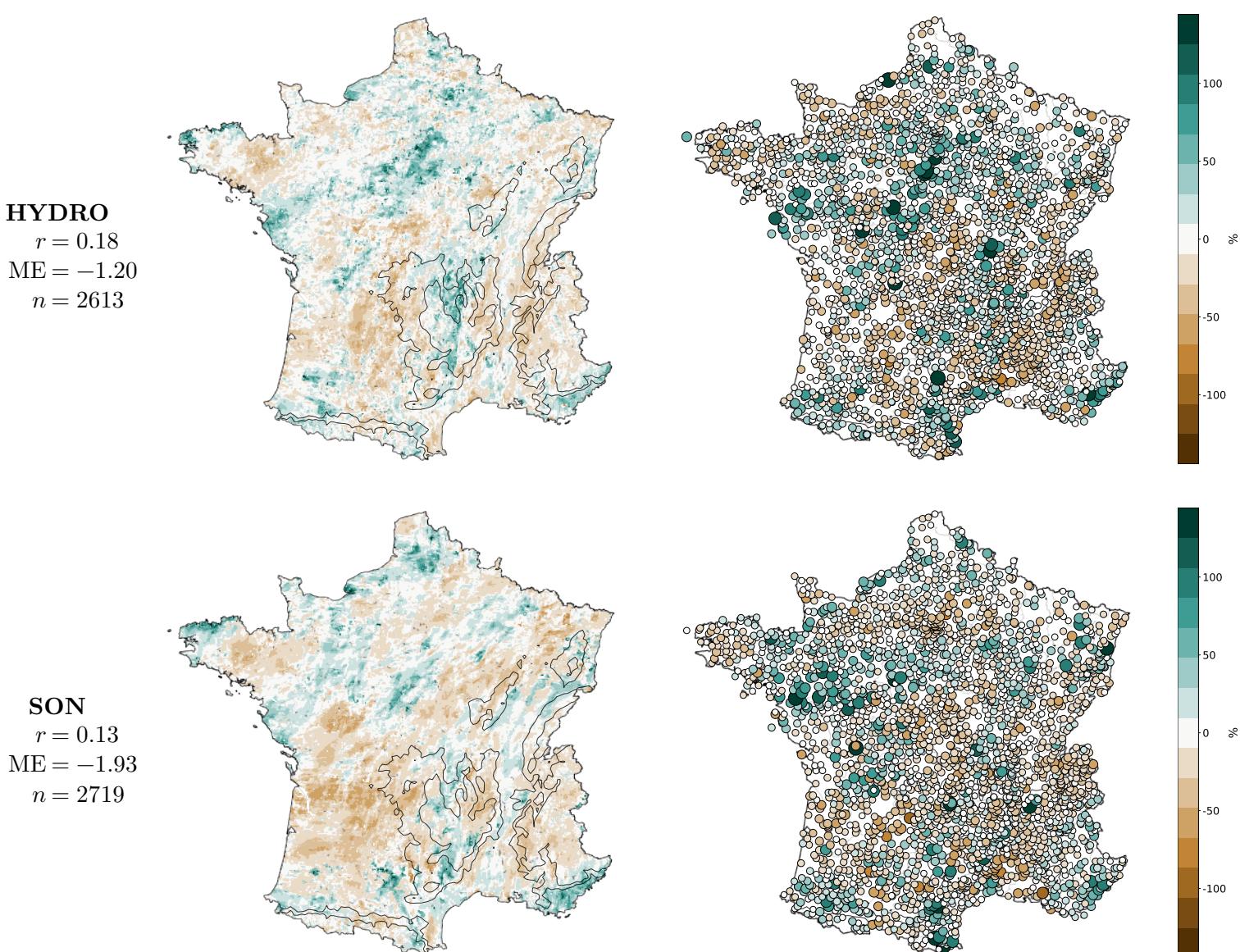




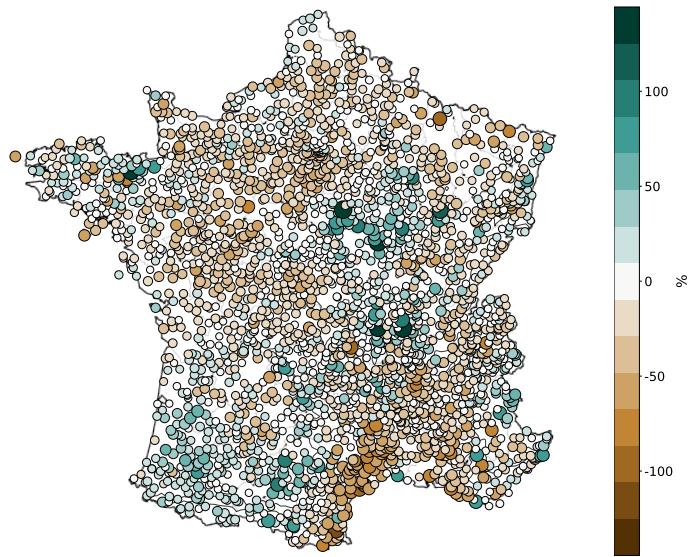
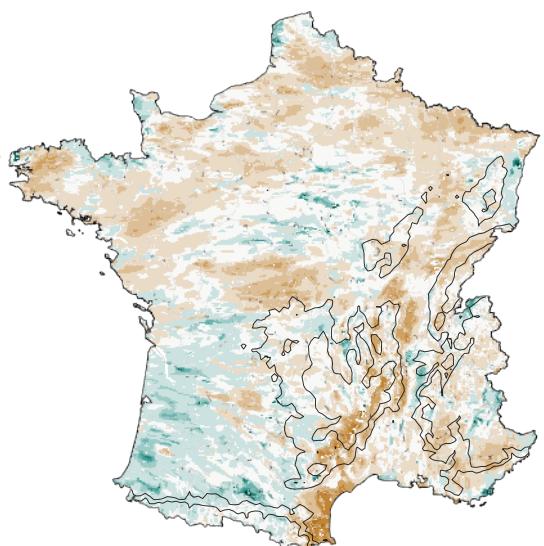
## 4.2 Données journalières (1990-2022)

### 4.2.1 Par saison

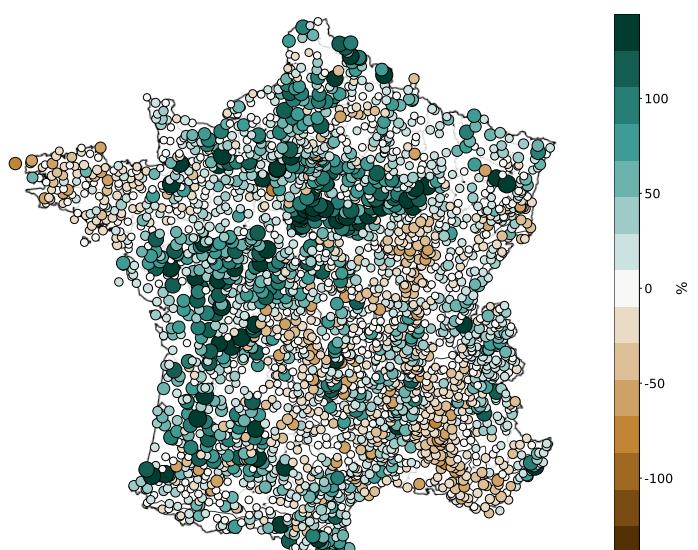
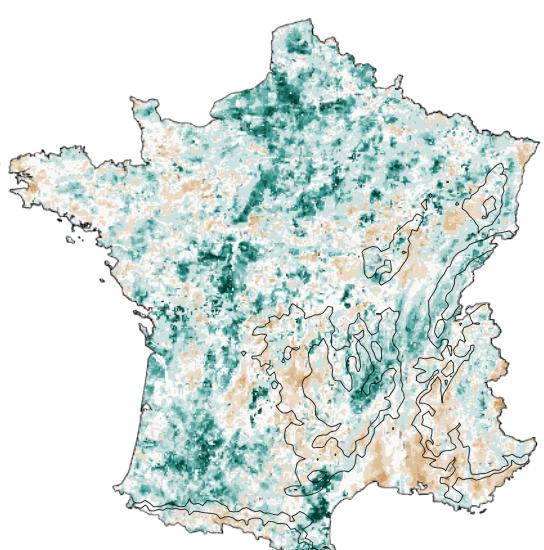
#### 4.2.1.1 Toutes tendances



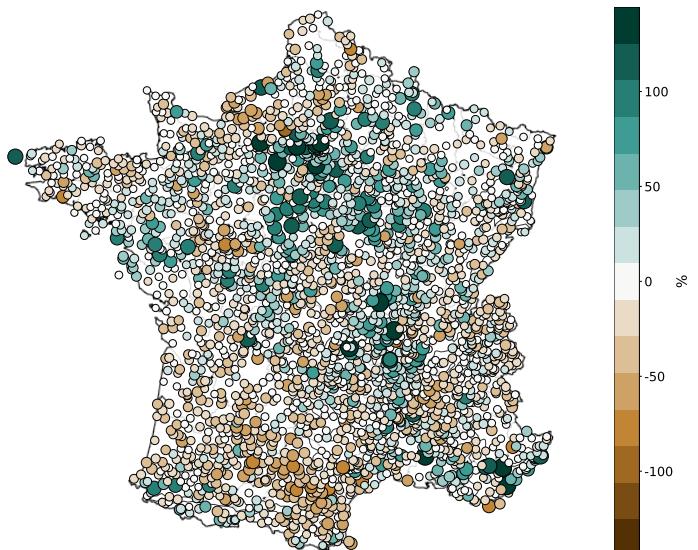
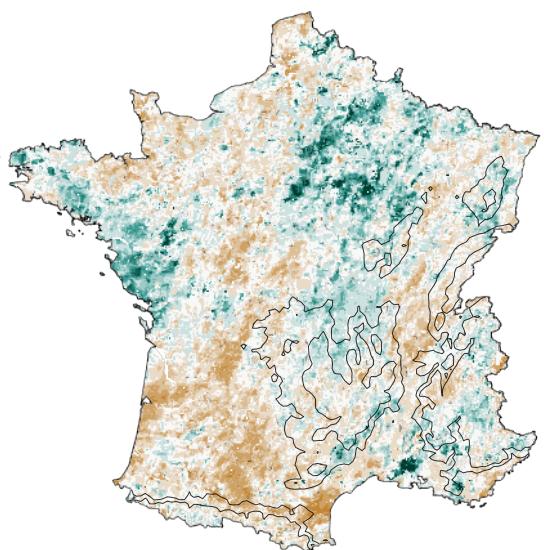
**DJF**  
 $r = 0.29$   
ME = -0.09  
 $n = 2663$



**MAM**  
 $r = 0.21$   
ME = -1.47  
 $n = 2729$

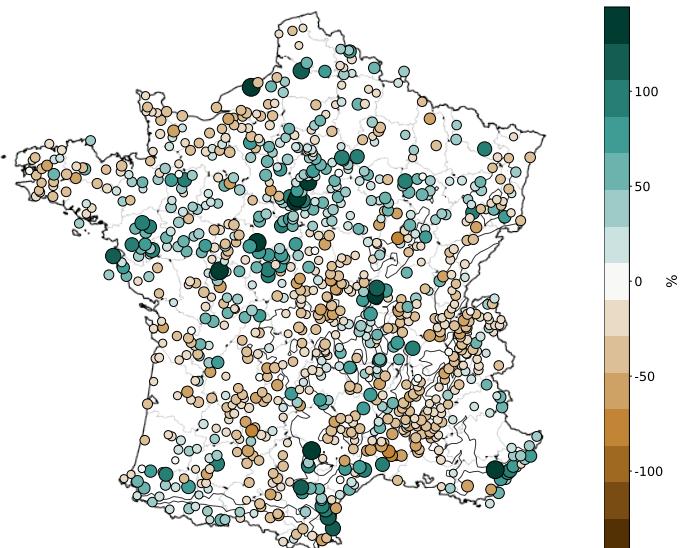
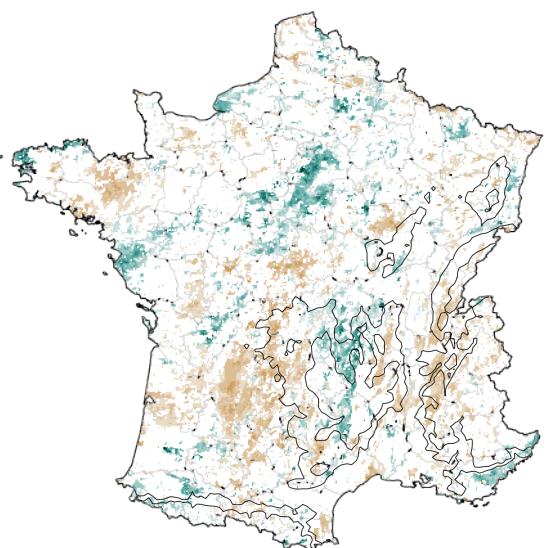


**JJA**  
 $r = 0.16$   
ME = 0.23  
 $n = 2718$

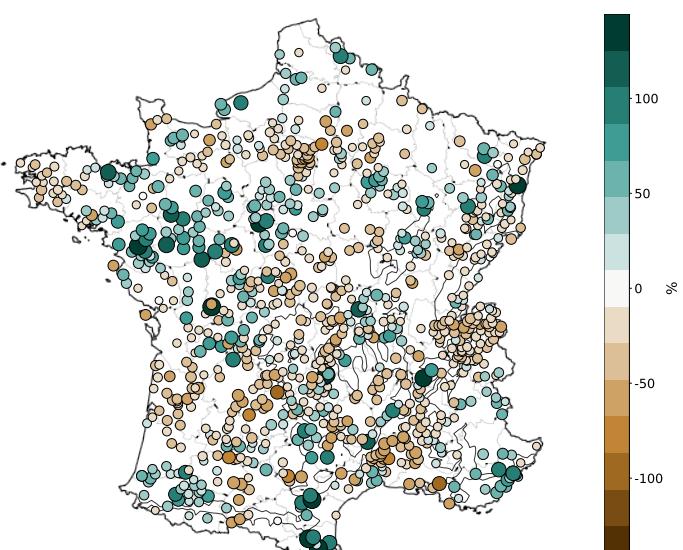
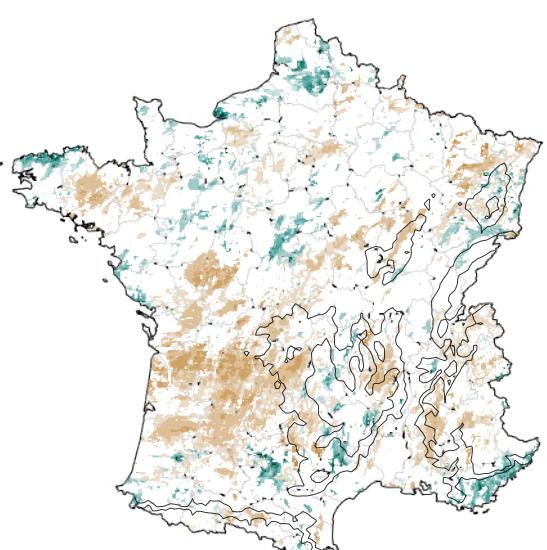


#### 4.2.1.2 Tendances significatives

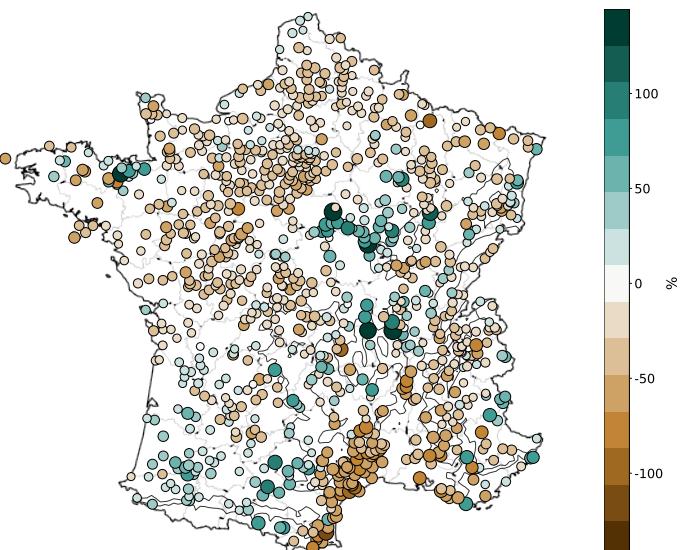
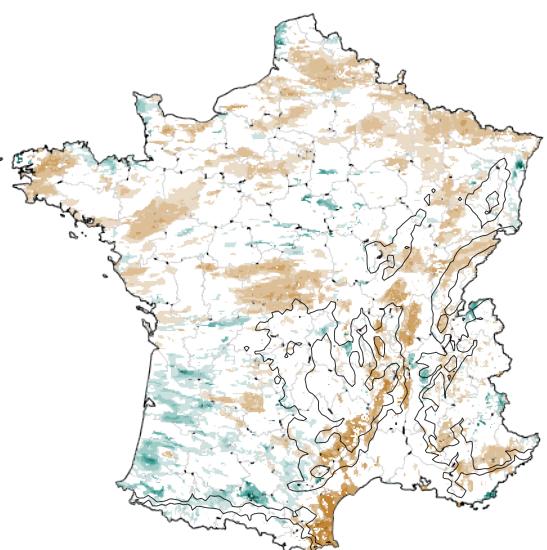
**HYDRO**  
 $r = 0.35$   
ME = -3.81  
 $n = 349$



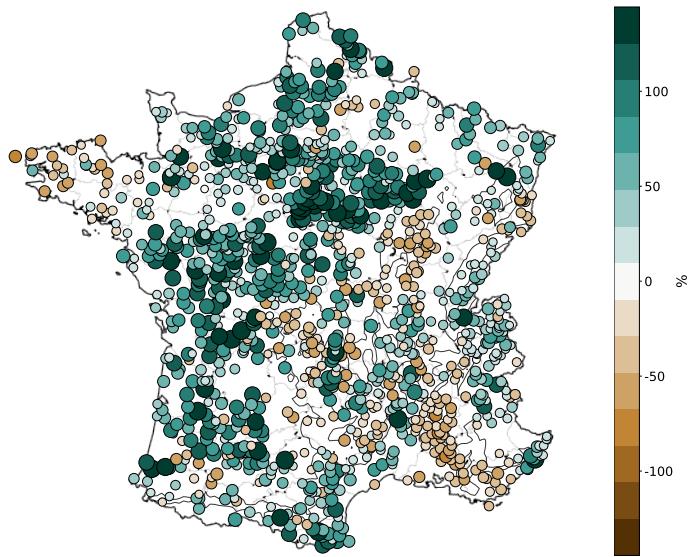
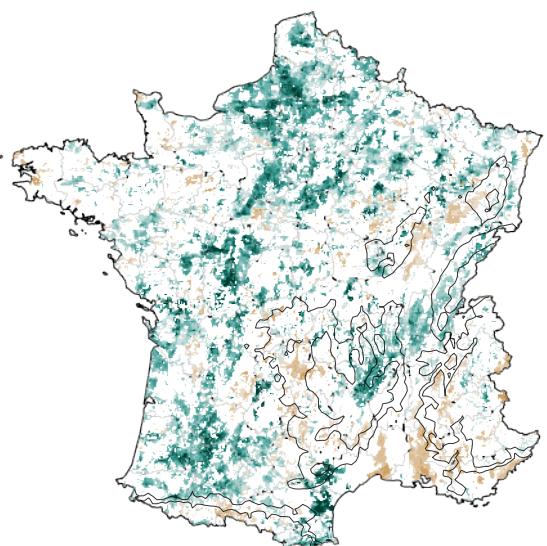
**SON**  
 $r = 0.29$   
ME = -3.63  
 $n = 352$



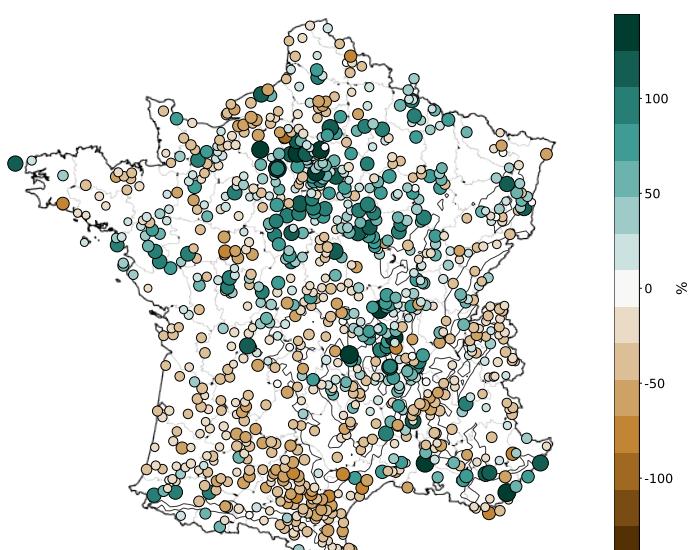
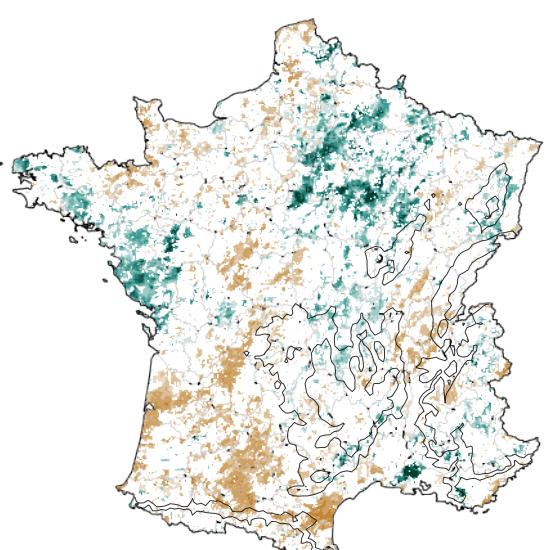
**DJF**  
 $r = 0.44$   
ME = -0.12  
 $n = 394$



**MAM**  
 $r = 0.27$   
ME = -5.55  
 $n = 534$



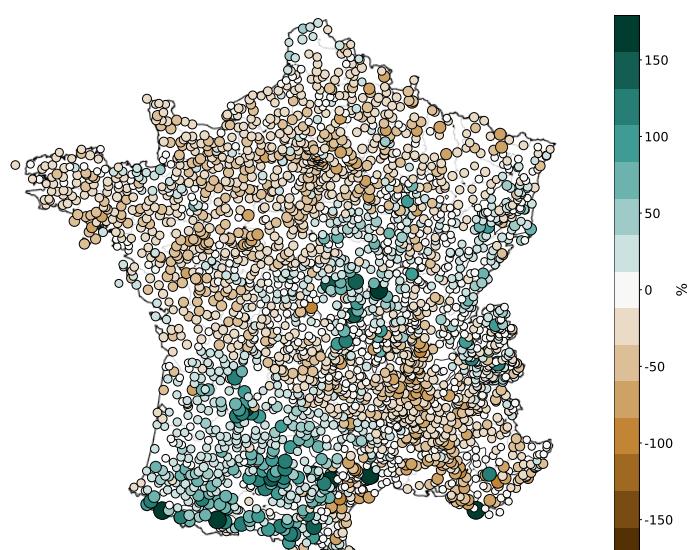
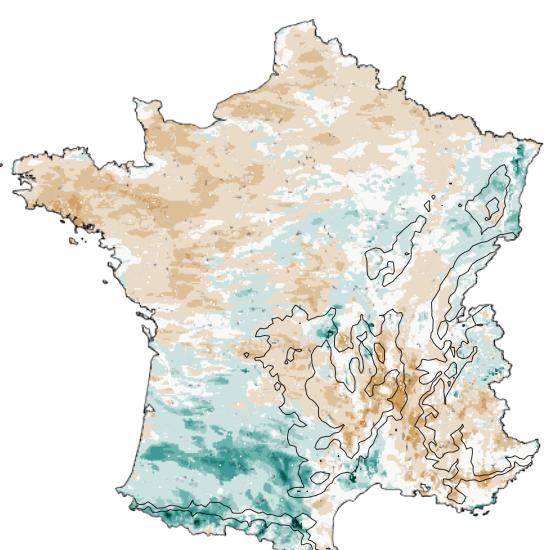
**JJA**  
 $r = 0.33$   
ME = 0.13  
 $n = 328$



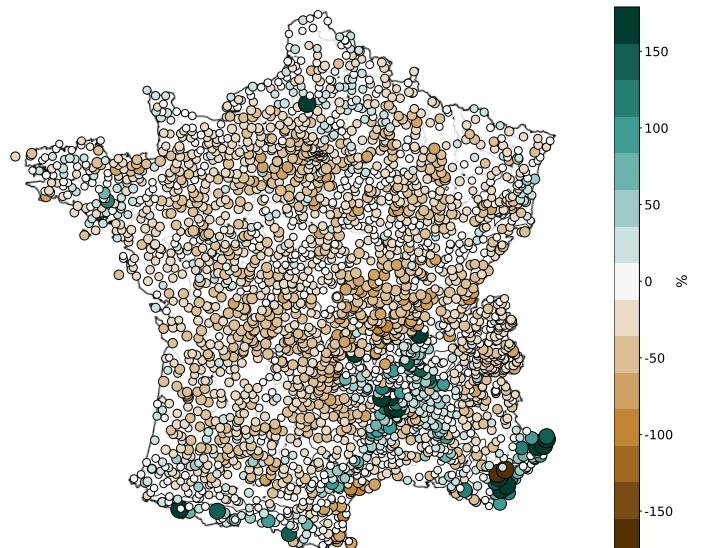
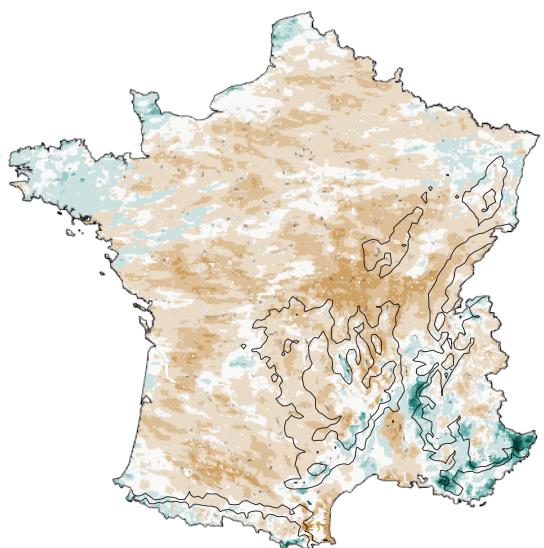
#### 4.2.2 Par mois

##### 4.2.2.1 Toutes tendances

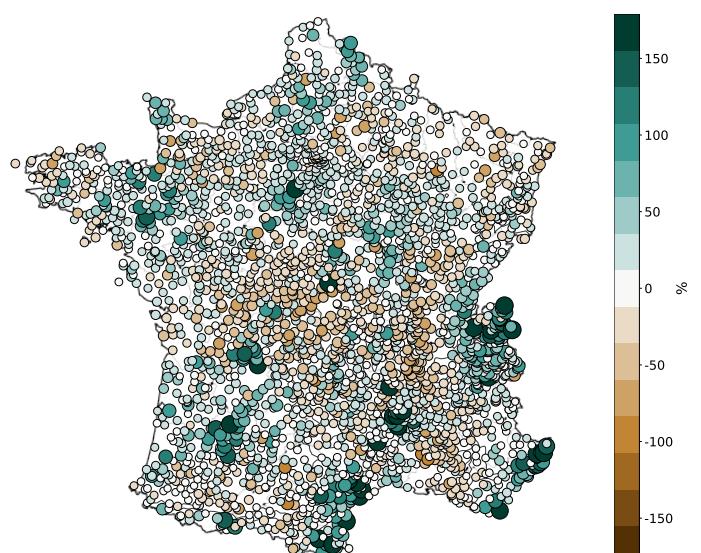
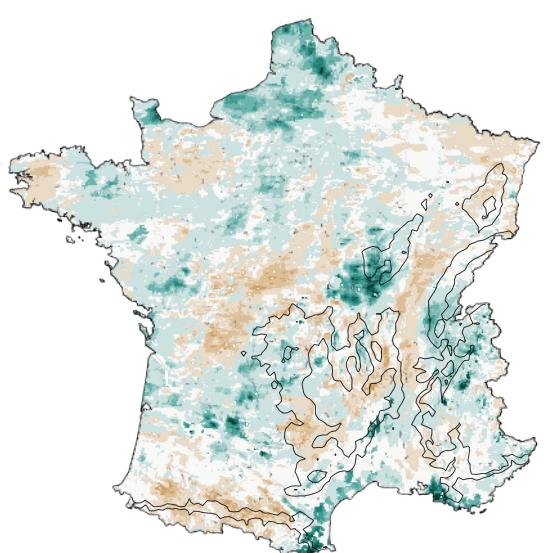
**JAN**  
 $r = 0.47$   
ME = 1.44  
 $n = 2800$



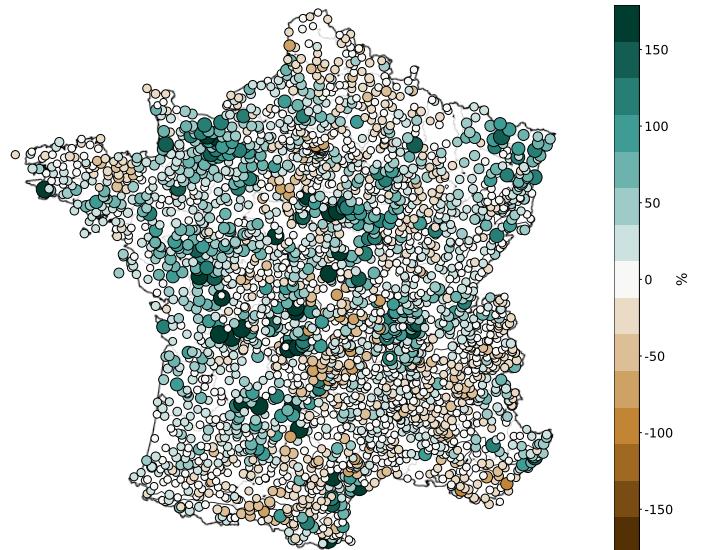
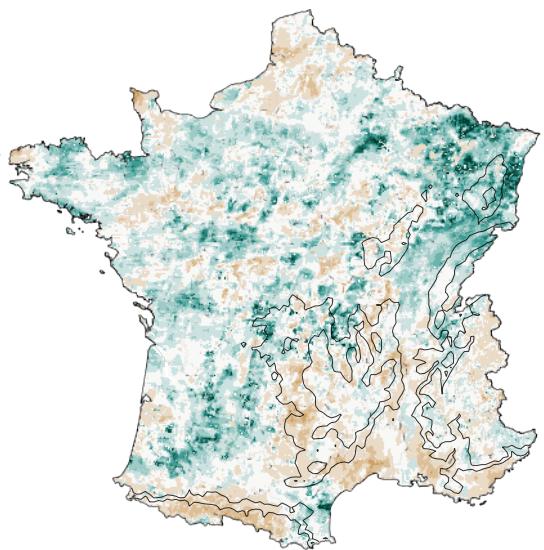
**FEV**  
 $r = 0.02$   
ME = 4.62  
 $n = 2793$

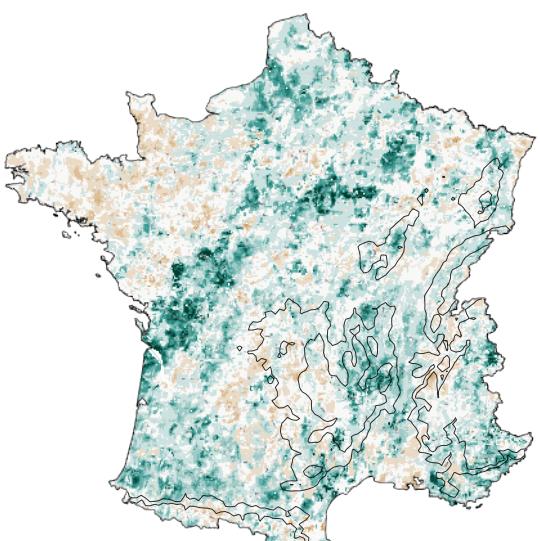


**MAR**  
 $r = 0.21$   
ME = -0.78  
 $n = 2793$

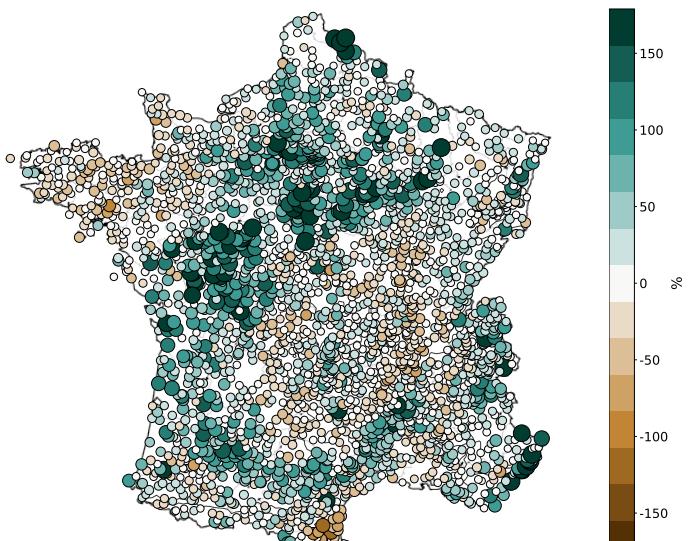


**AVR**  
 $r = 0.16$   
ME = -3.43  
 $n = 2765$

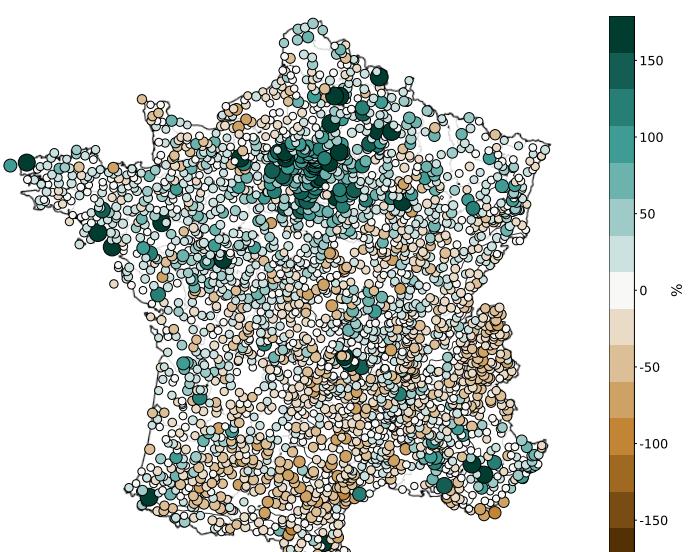
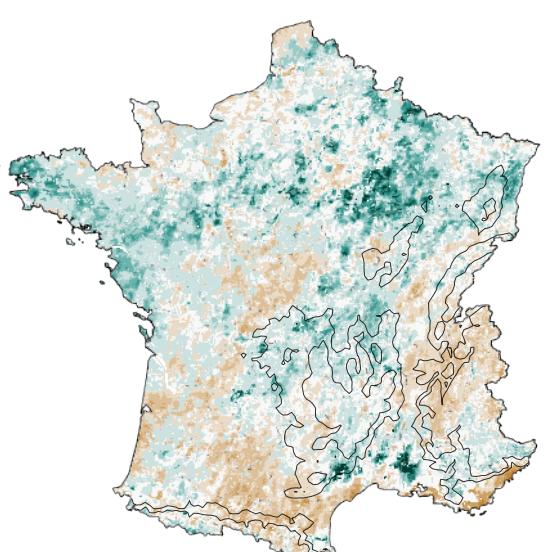




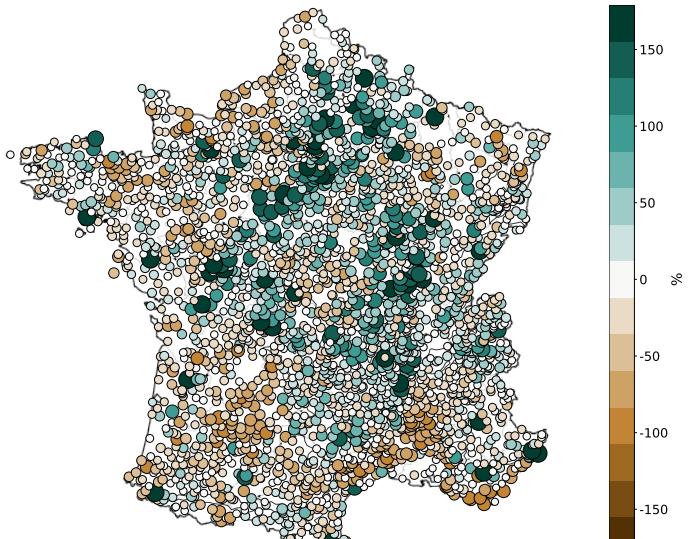
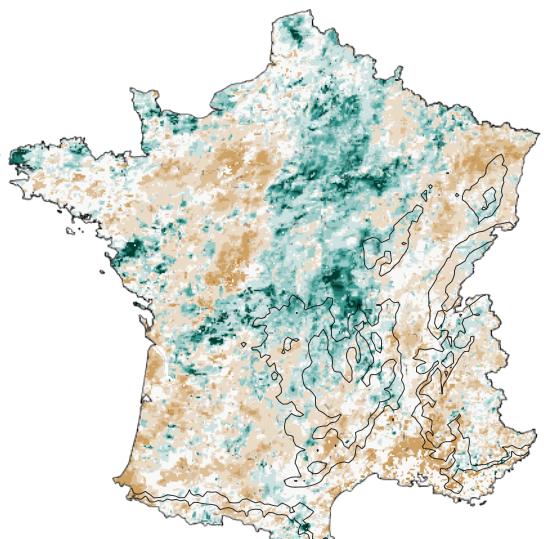
**MAI**  
 $r = 0.18$   
ME = -0.37  
 $n = 2745$

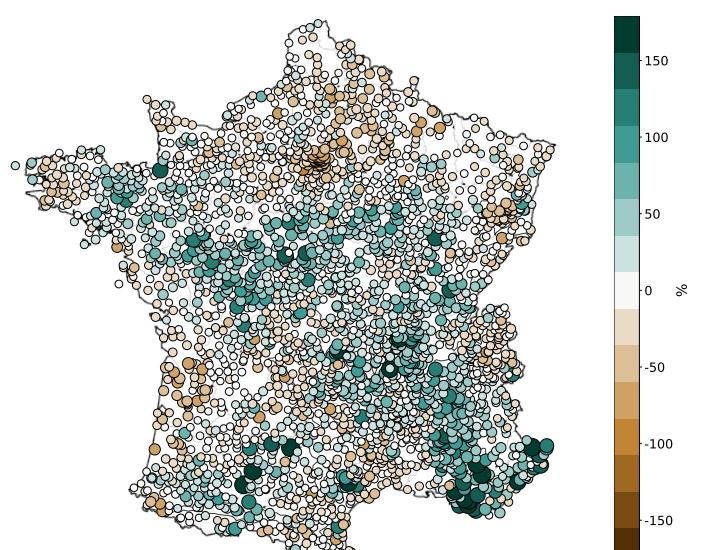
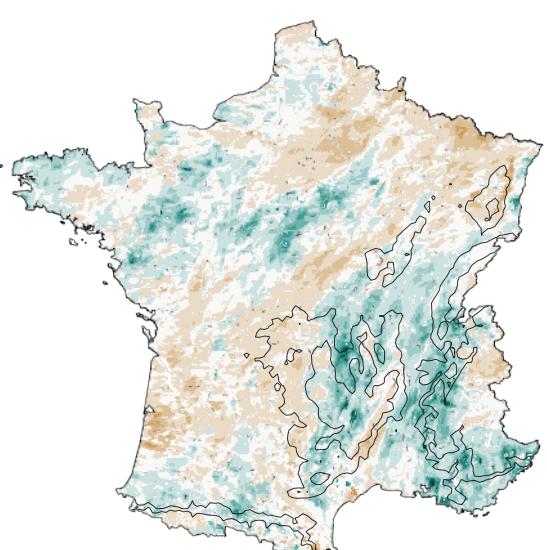
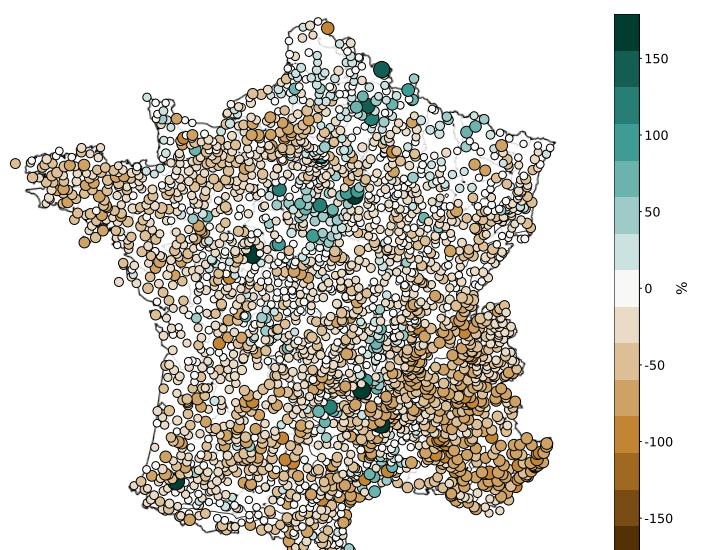
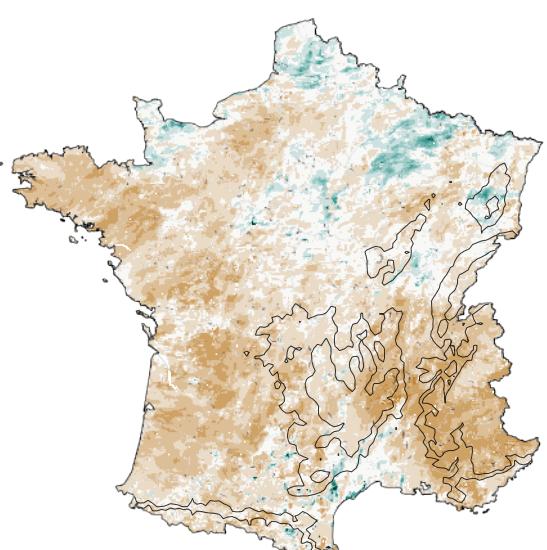
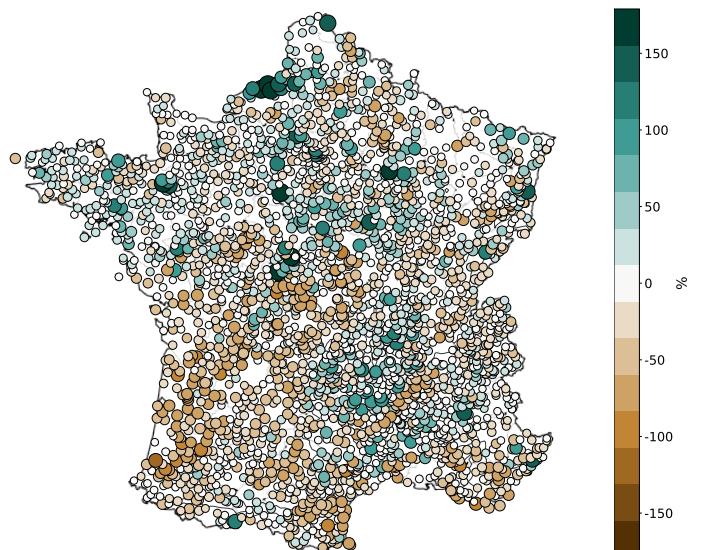
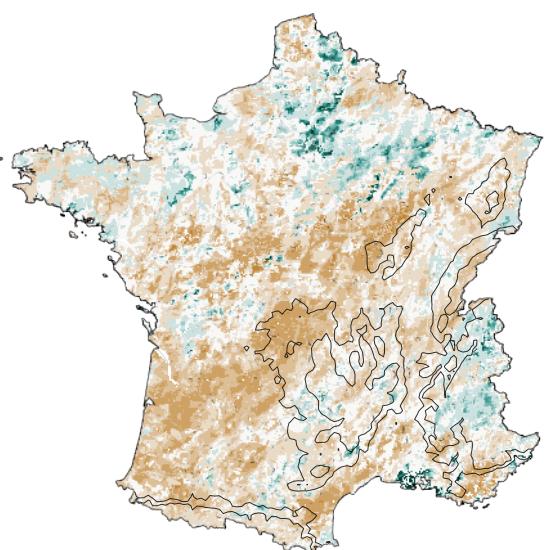


**JUI**  
 $r = 0.19$   
ME = 3.14  
 $n = 2751$

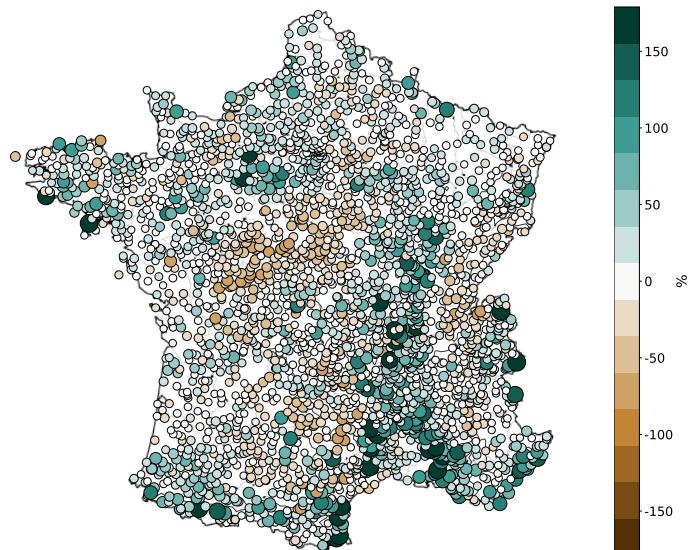
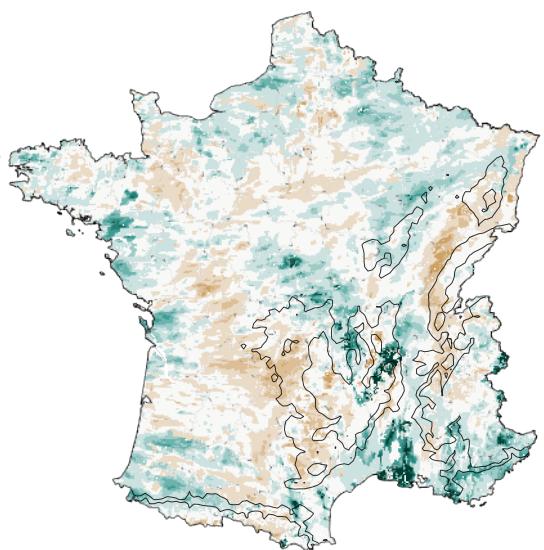


**JUILL**  
 $r = 0.12$   
ME = -0.35  
 $n = 2748$

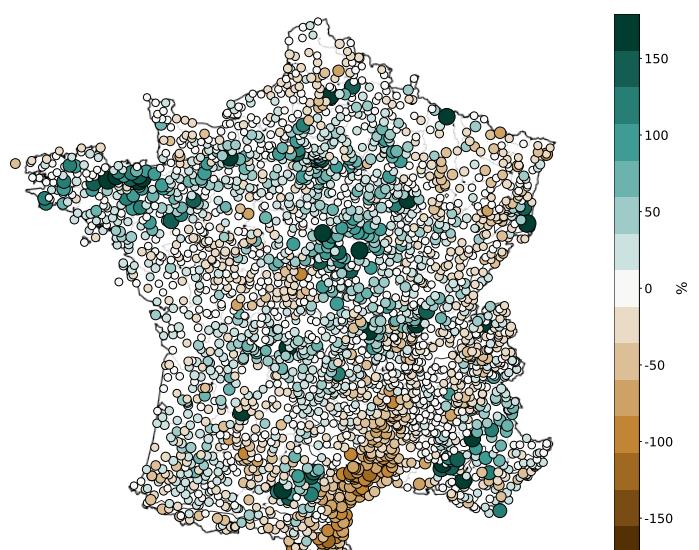
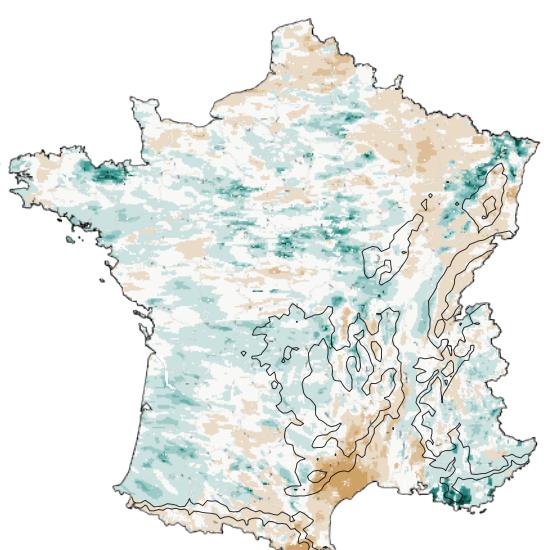




**NOV**  
 $r = 0.16$   
ME = -2.29  
 $n = 2741$

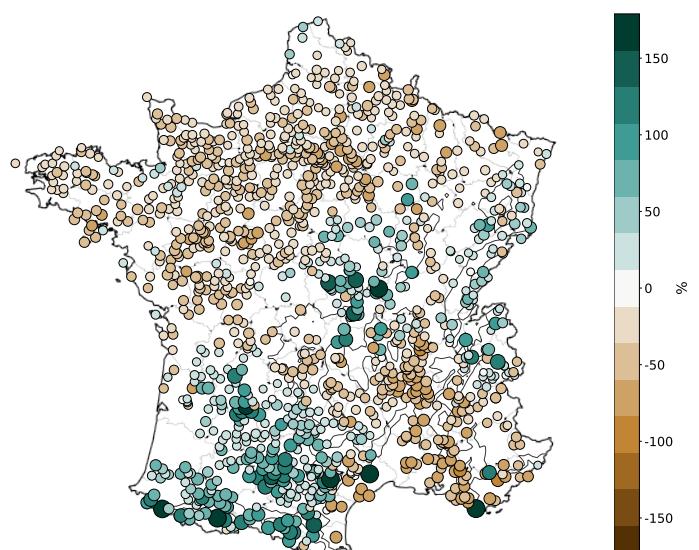
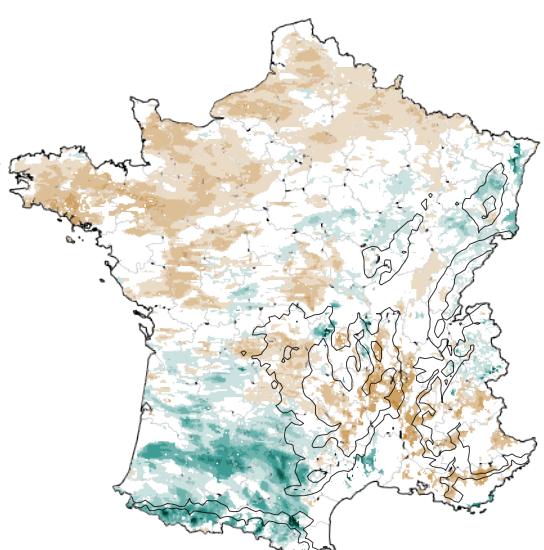


**DEC**  
 $r = 0.35$   
ME = -1.04  
 $n = 2741$

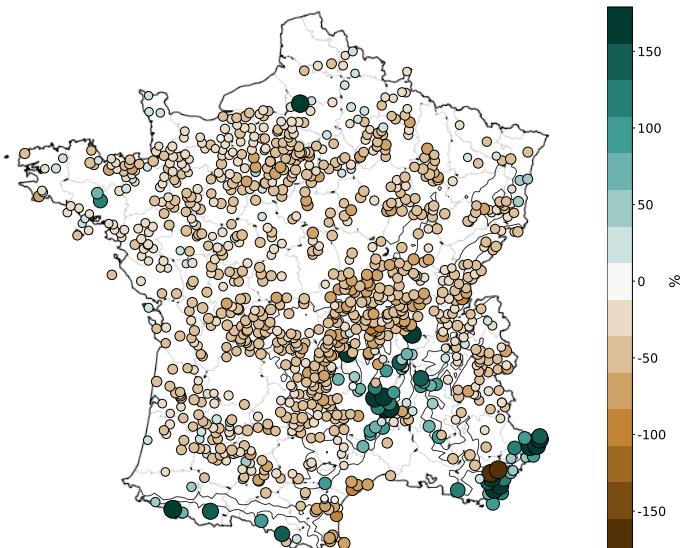
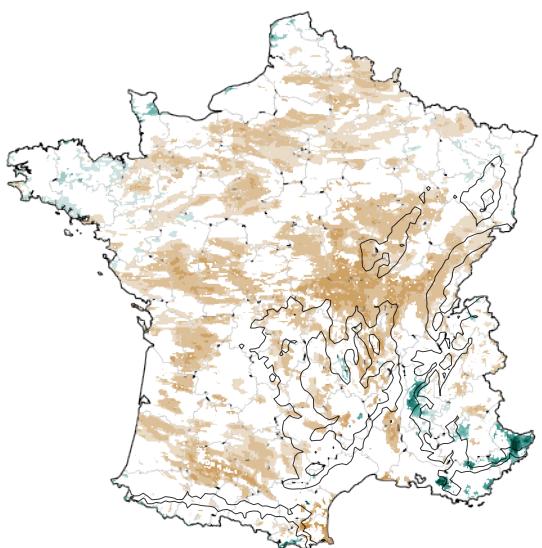


#### 4.2.2.2 Tendances significatives

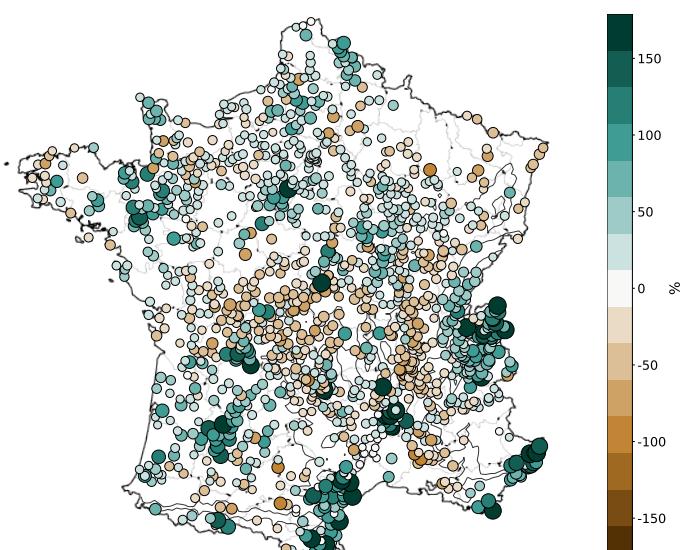
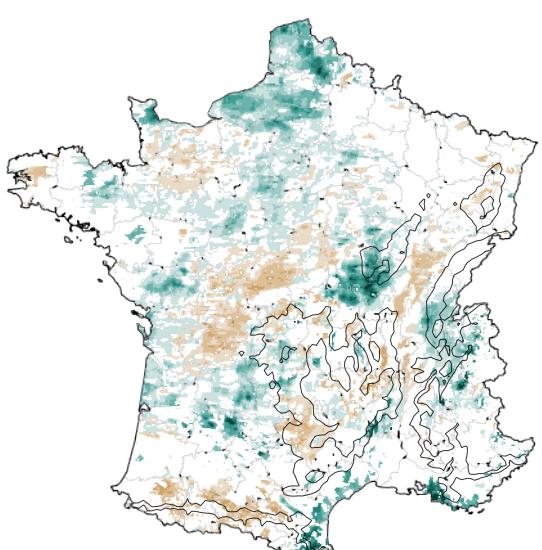
**JAN**  
 $r = 0.69$   
ME = -3.44  
 $n = 736$



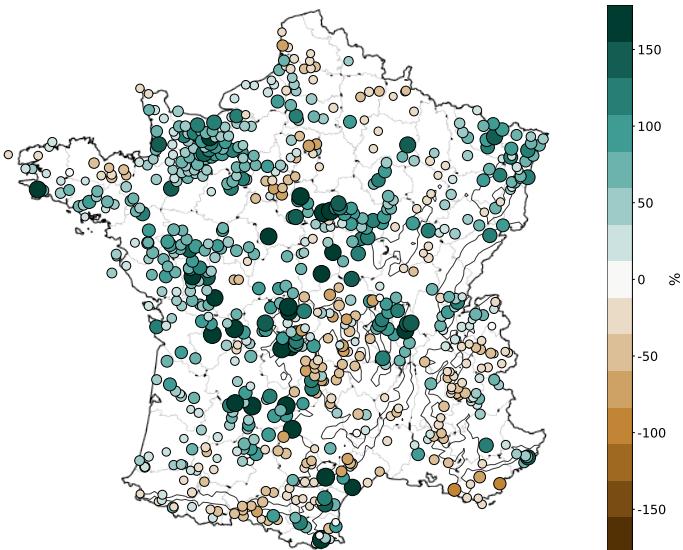
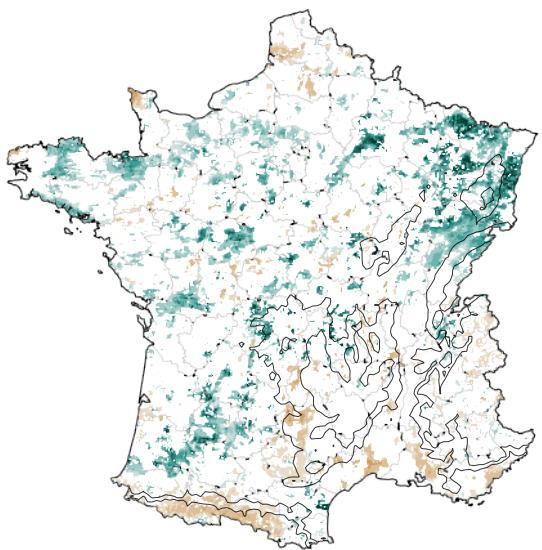
**FEV**  
 $r = 0.60$   
ME = -1.53  
 $n = 515$



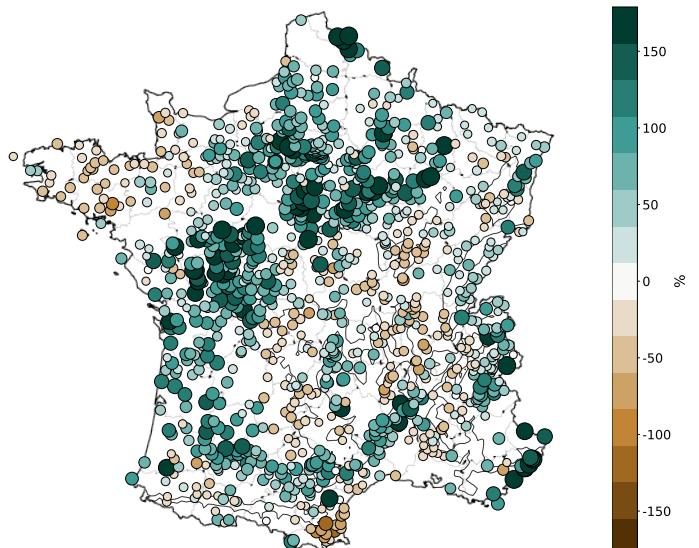
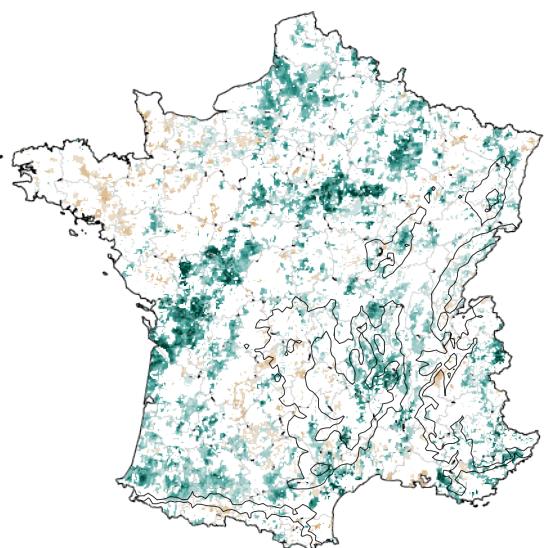
**MAR**  
 $r = 0.37$   
ME = 1.47  
 $n = 687$



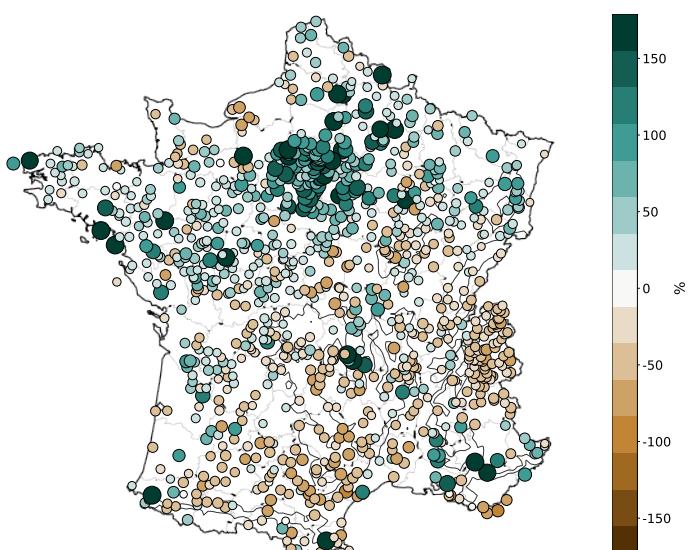
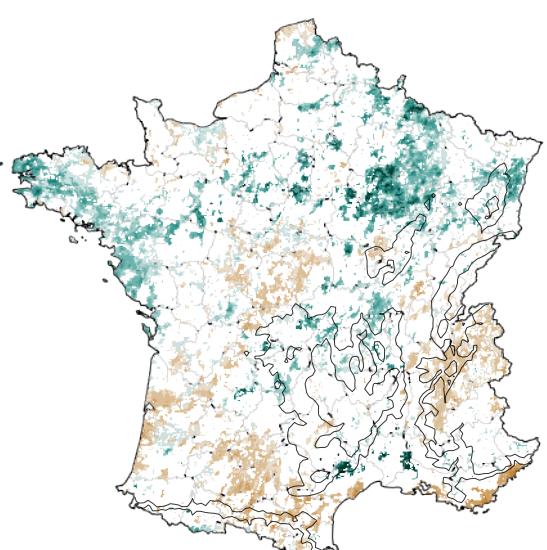
**AVR**  
 $r = 0.43$   
ME = 2.22  
 $n = 218$



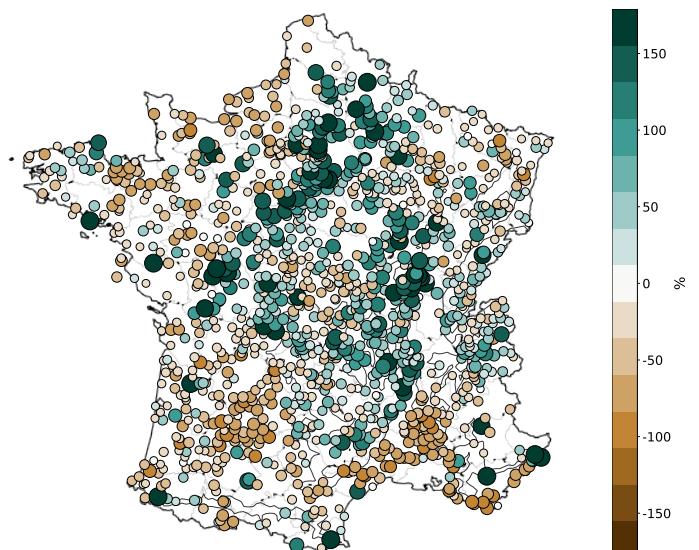
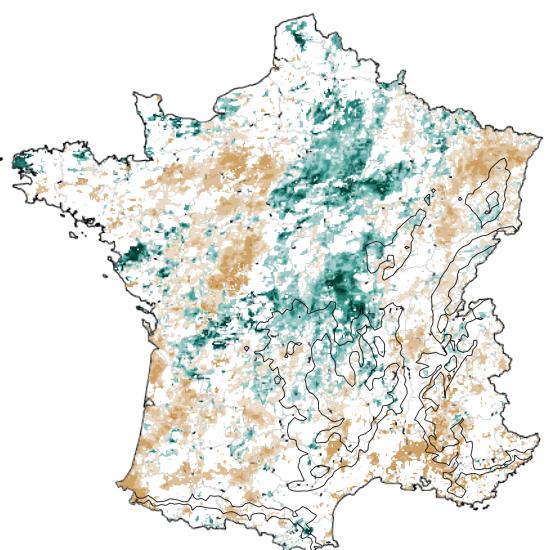
**MAI**  
 $r = 0.34$   
ME = 3.92  
 $n = 410$

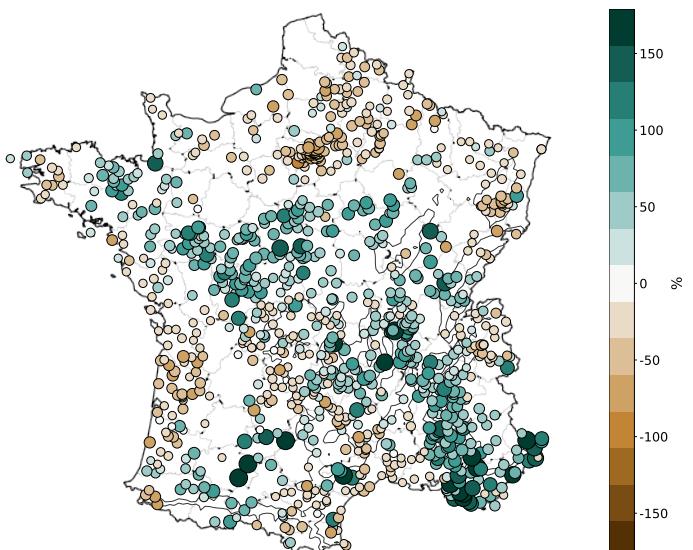
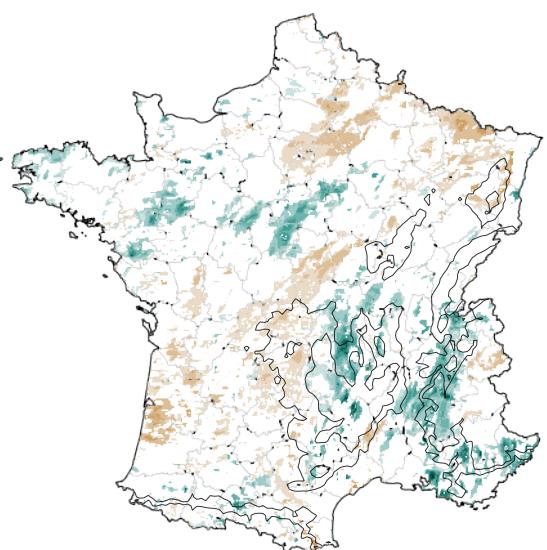
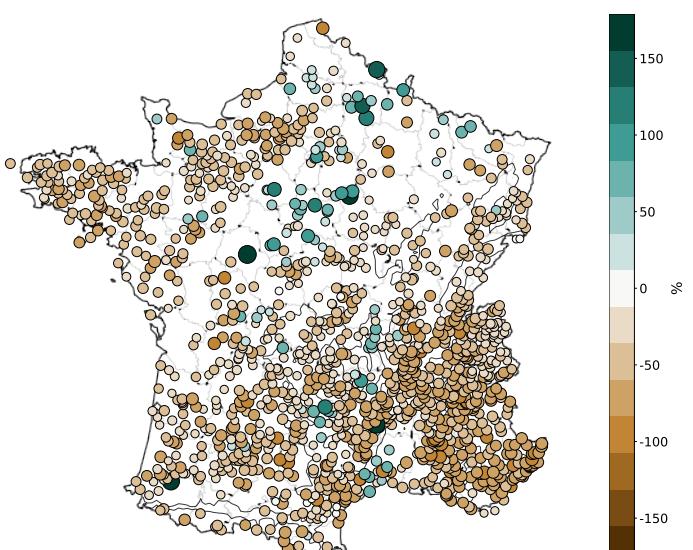
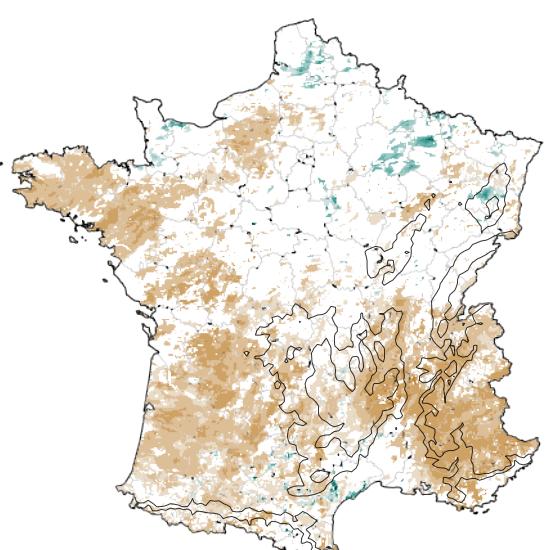
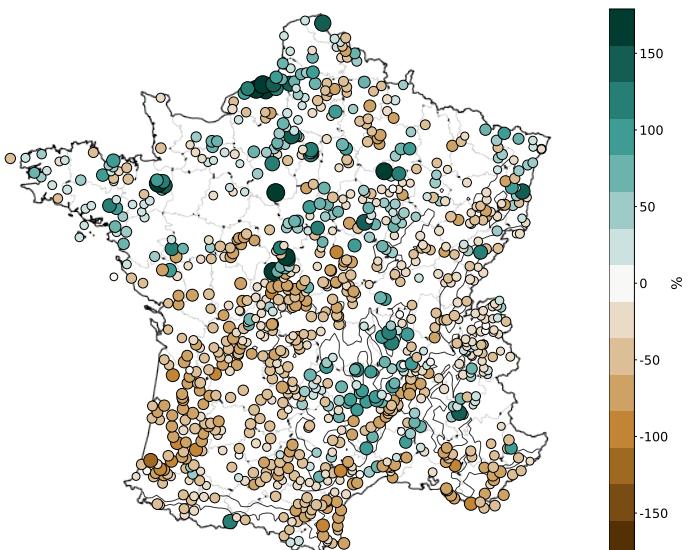
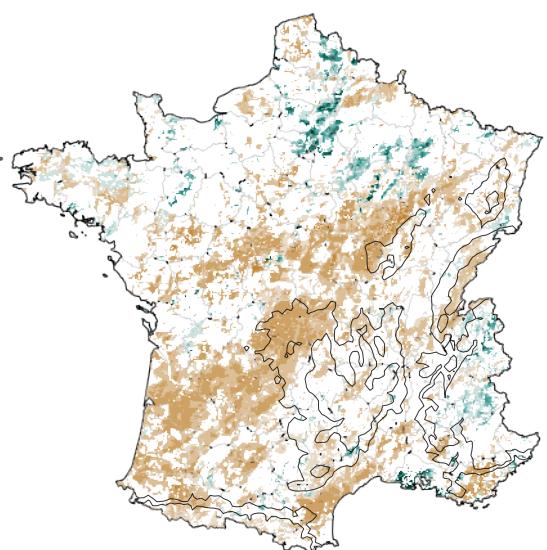


**JUI**  
 $r = 0.41$   
ME = 2.19  
 $n = 370$

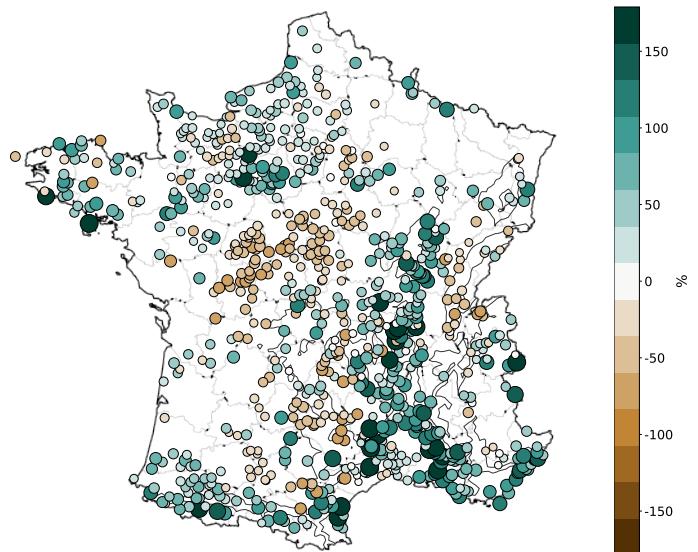
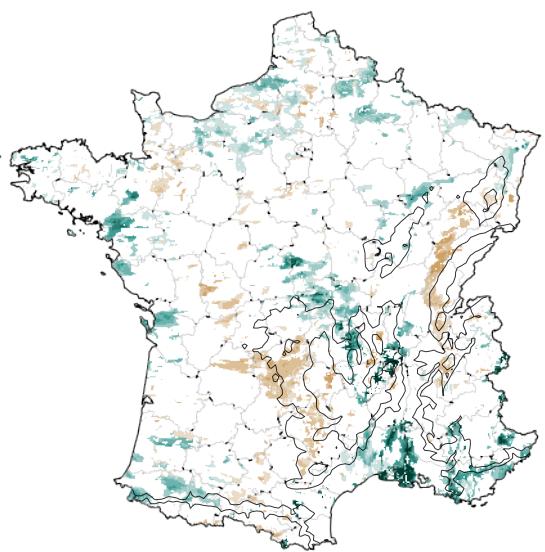


**JUILL**  
 $r = 0.17$   
ME = -2.92  
 $n = 699$

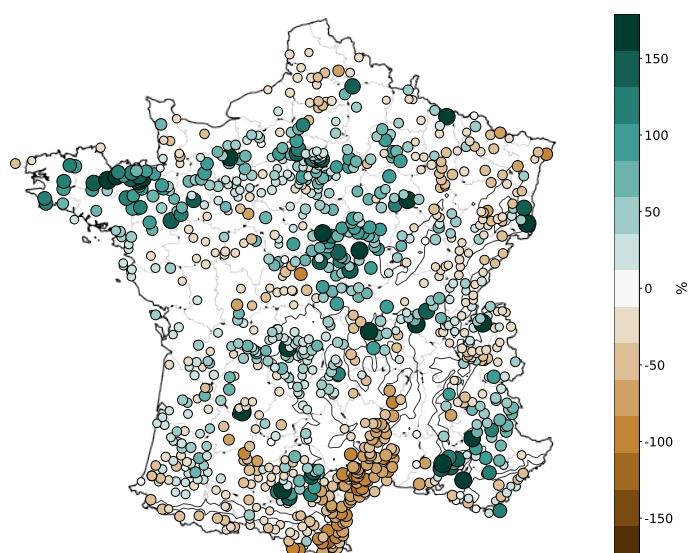
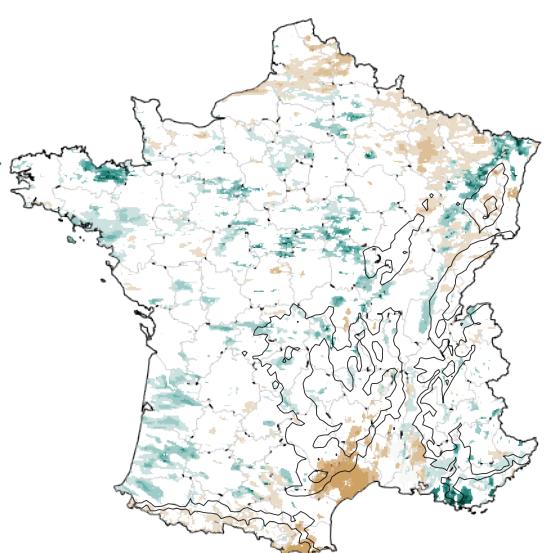




**NOV**  
 $r = 0.40$   
ME = 9.48  
 $n = 215$



**DEC**  
 $r = 0.60$   
ME = 1.41  
 $n = 316$

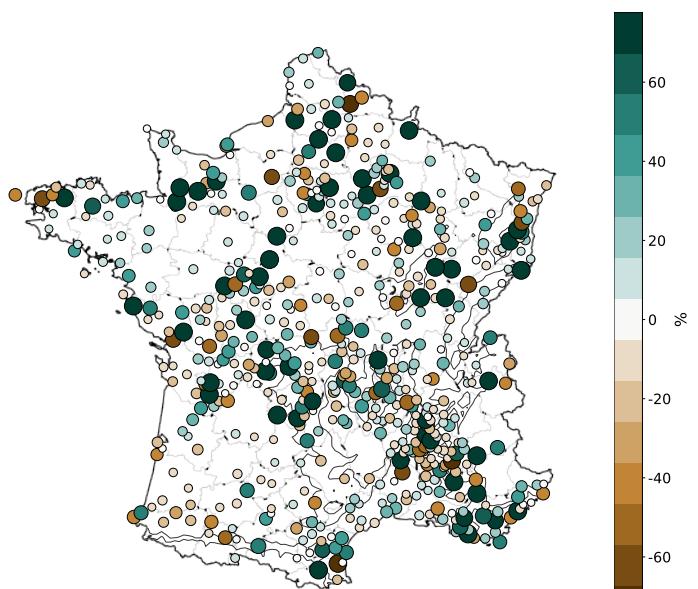
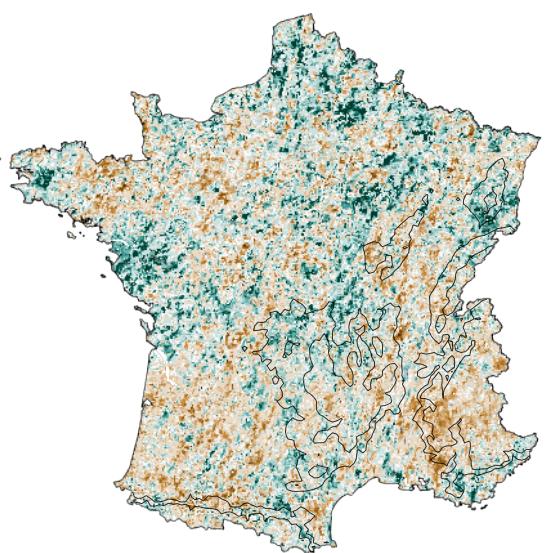


## 4.3 Données horaire (1990-2022)

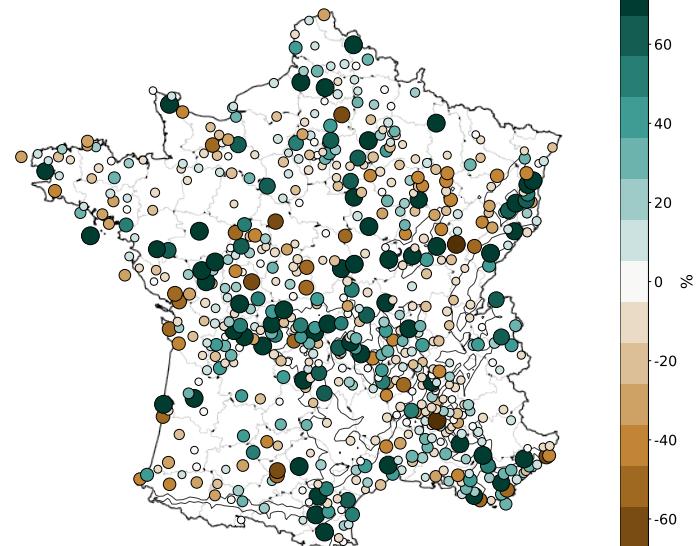
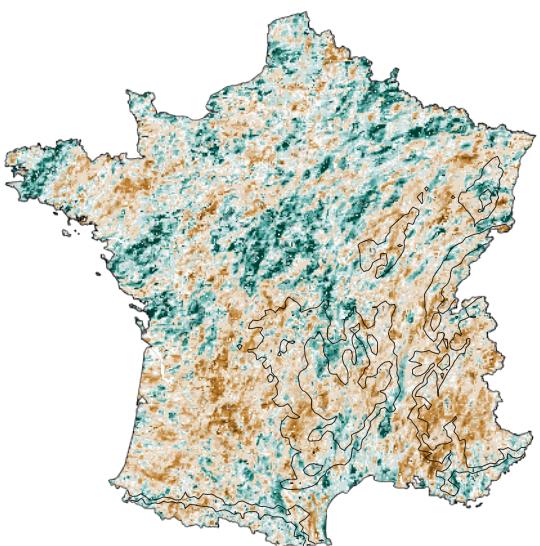
### 4.3.1 Par saison

#### 4.3.1.1 Toutes tendances

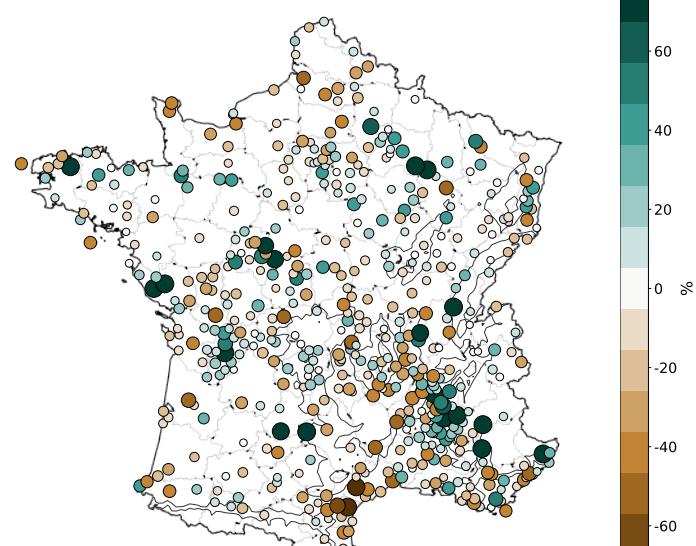
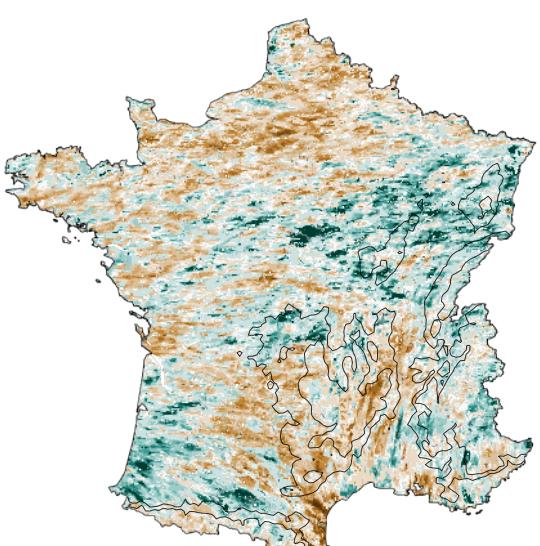
**HYDRO**  
 $r = 0.02$   
ME = -11.05  
 $n = 574$



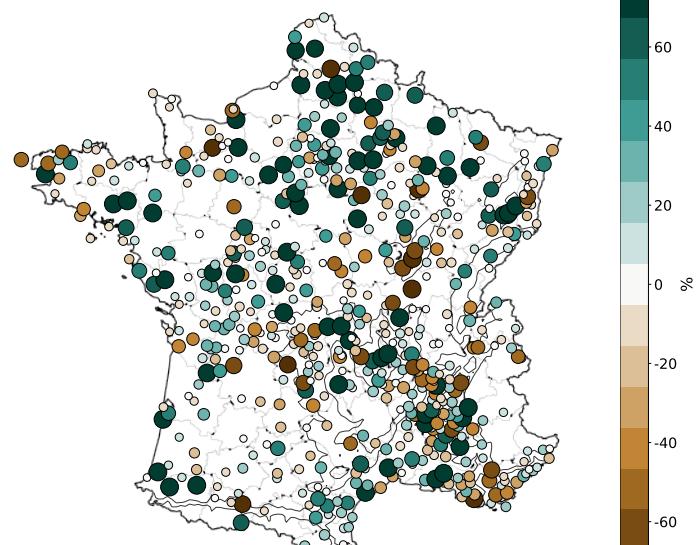
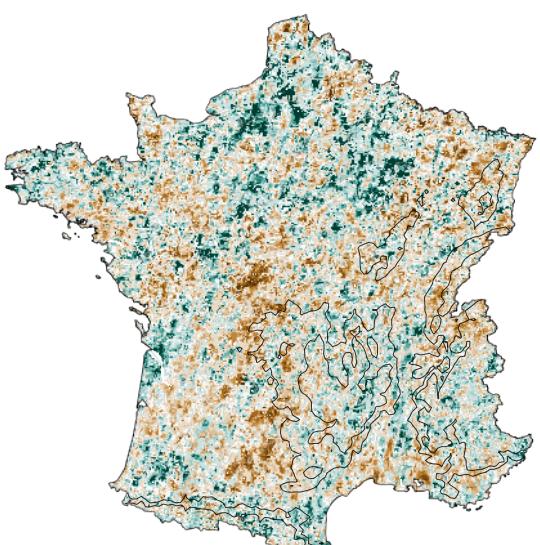
**SON**  
 $r = 0.05$   
ME = -9.70  
 $n = 609$

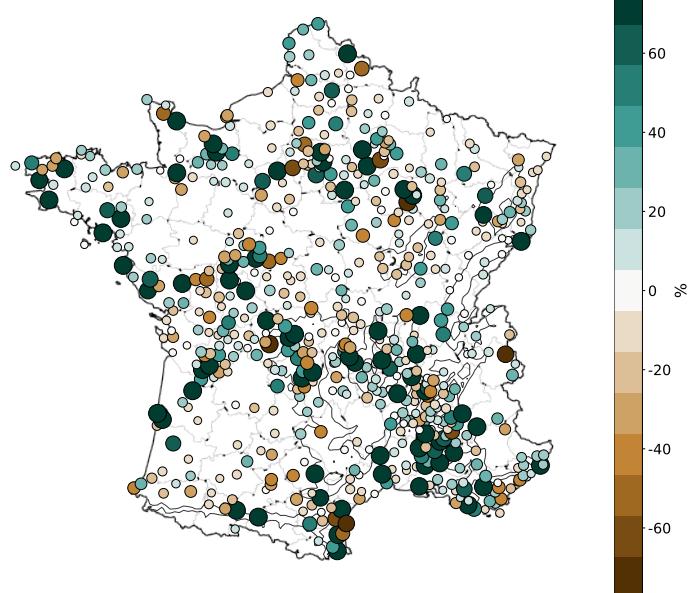
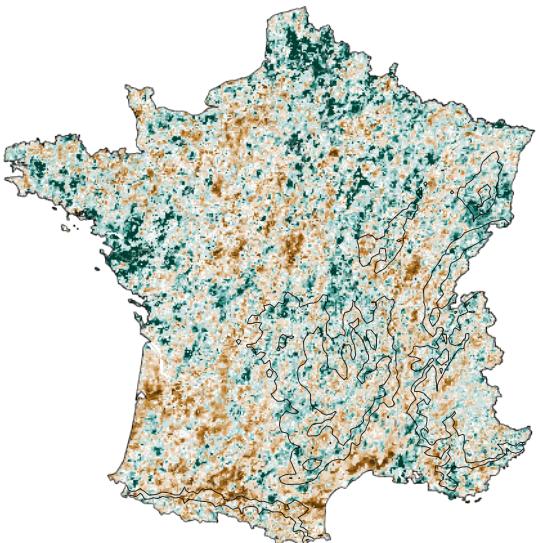


**DJF**  
 $r = 0.05$   
ME = 0.44  
 $n = 511$



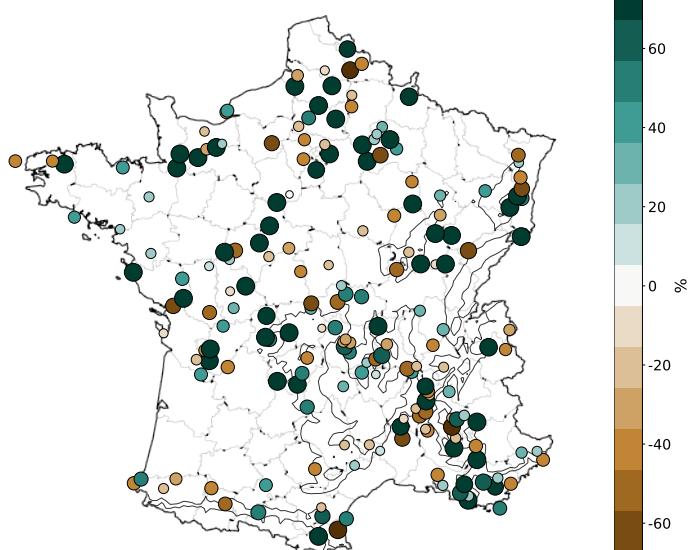
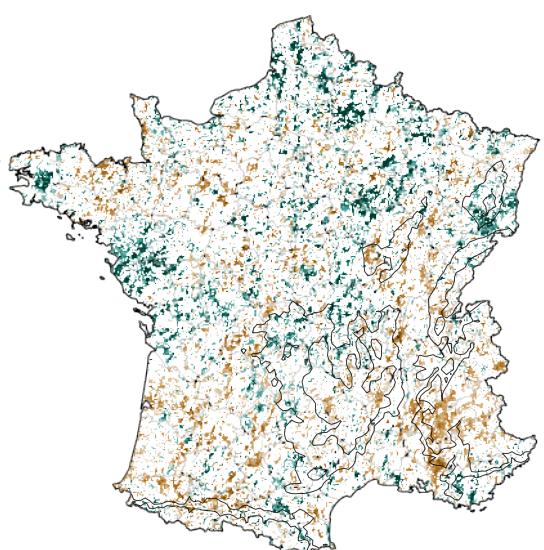
**MAM**  
 $r = -0.08$   
ME = -10.4°C  
 $n = 589$



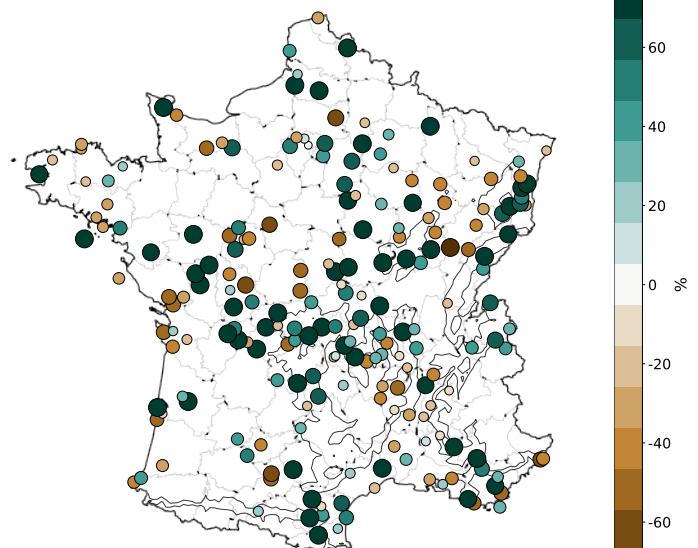
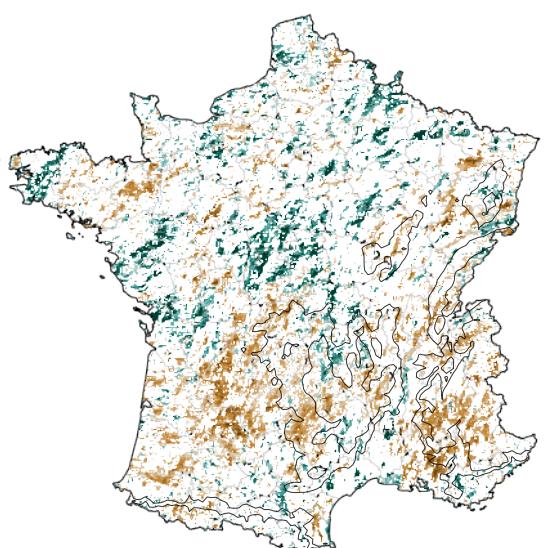


#### 4.3.1.2 Tendances significatives

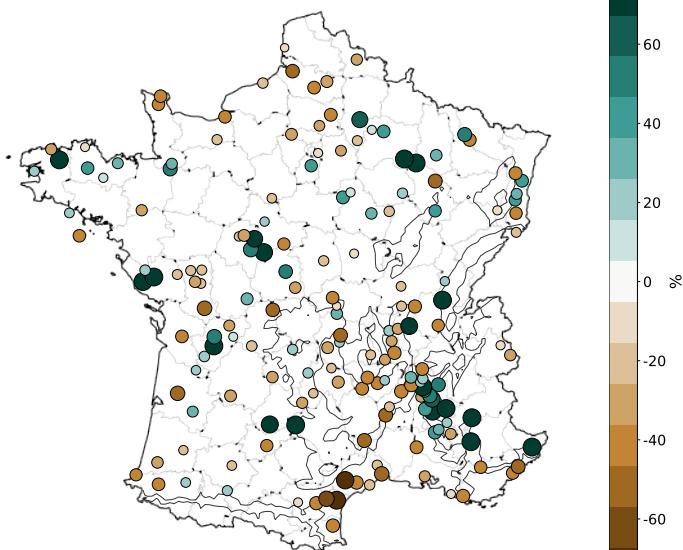
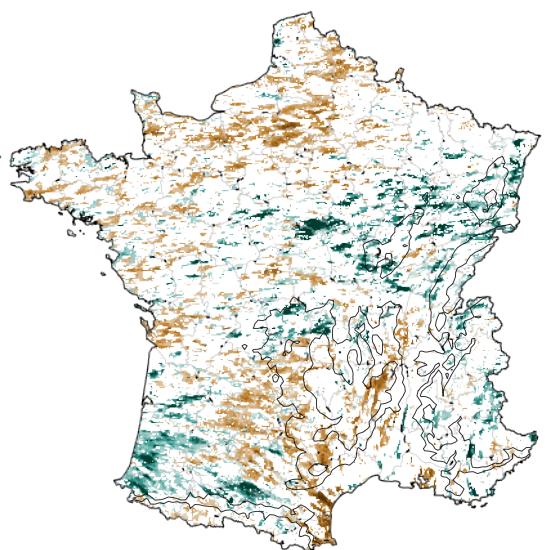
**HYDRO**  
 $r = 0.13$   
ME = -37.63  
 $n = 68$



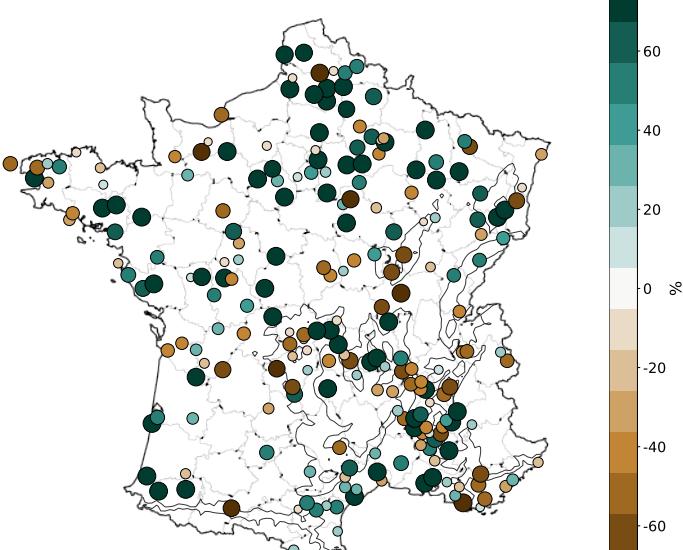
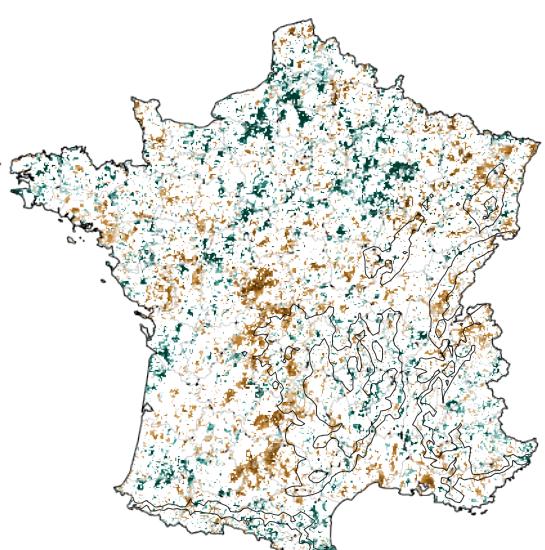
**SON**  
 $r = 0.12$   
ME = -14.46  
 $n = 81$



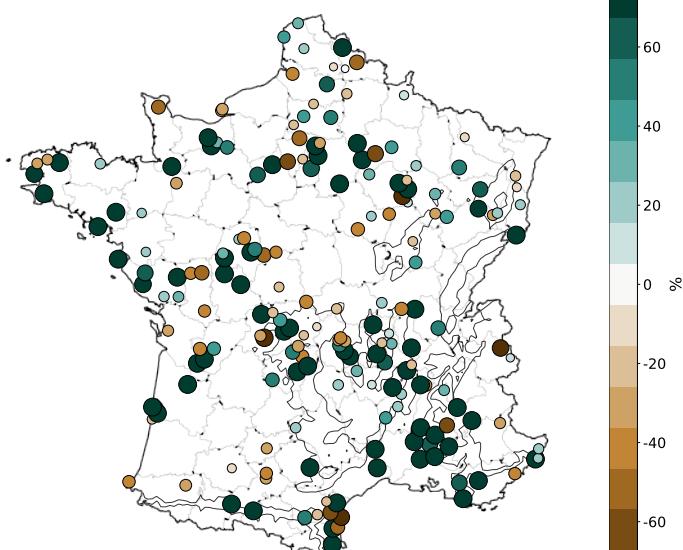
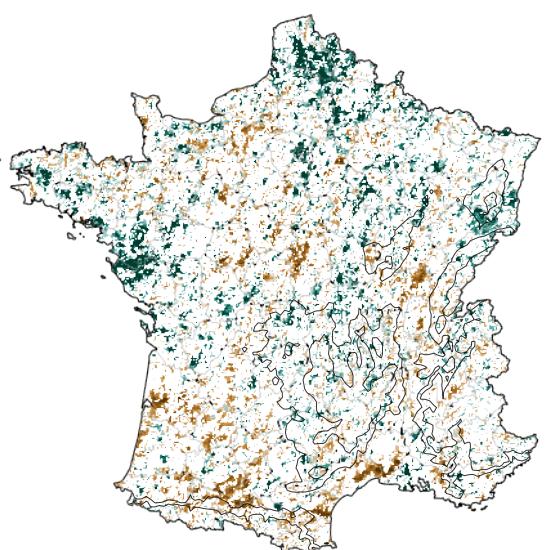
**DJF**  
 $r = 0.06$   
ME = 6.53  
 $n = 59$



**MAM**  
 $r = -0.20$   
ME = -18.71  
 $n = 84$



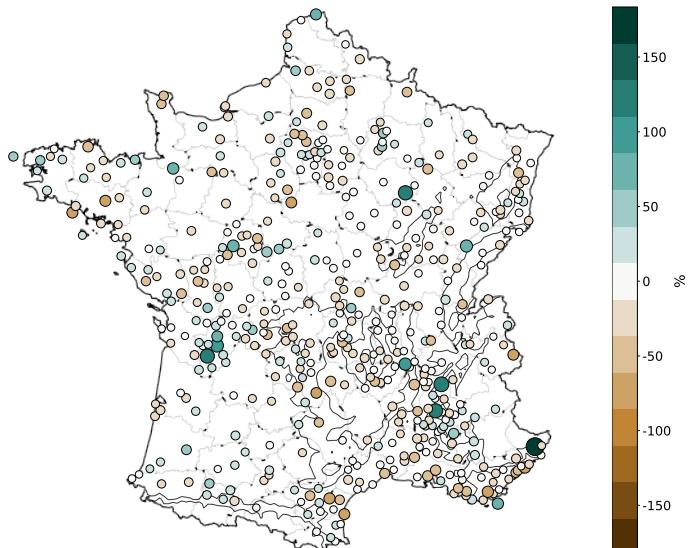
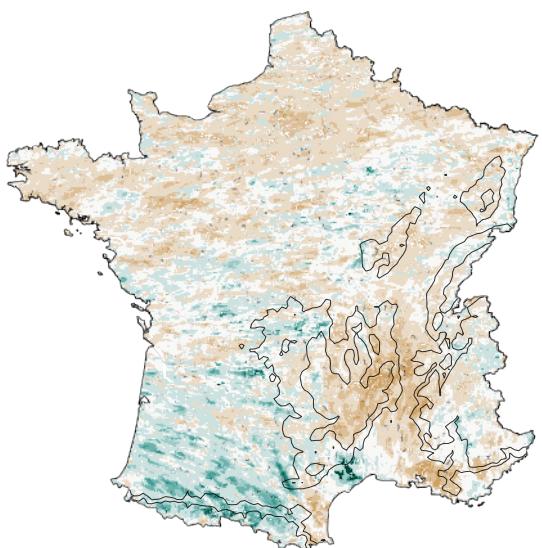
**JJA**  
 $r = -0.07$   
ME = -11.85  
 $n = 54$



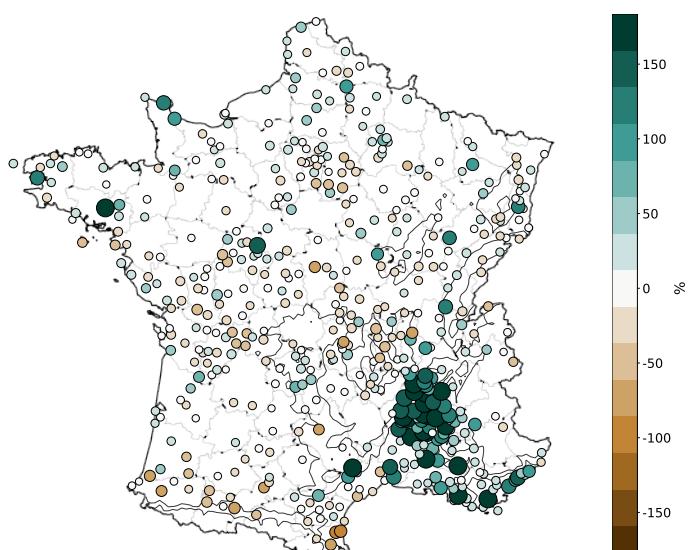
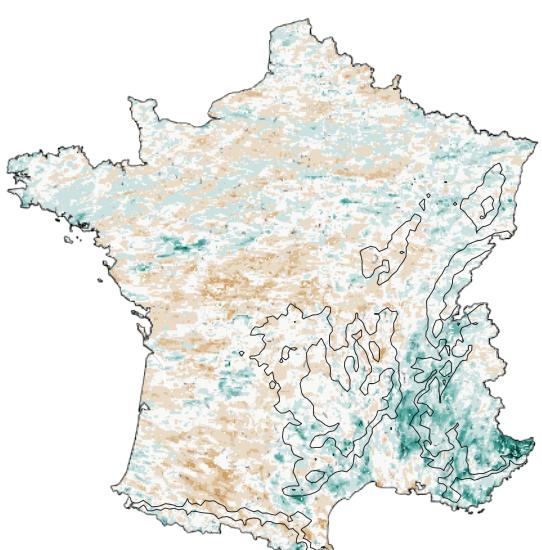
#### 4.3.2 Par mois

##### 4.3.2.1 Toutes tendances

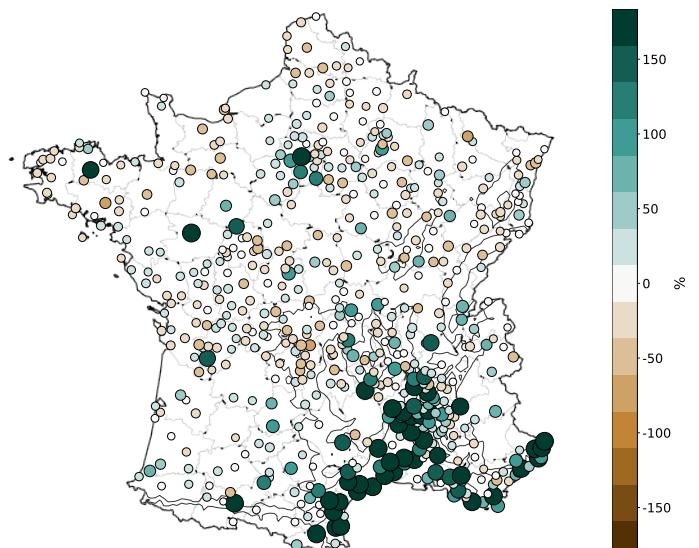
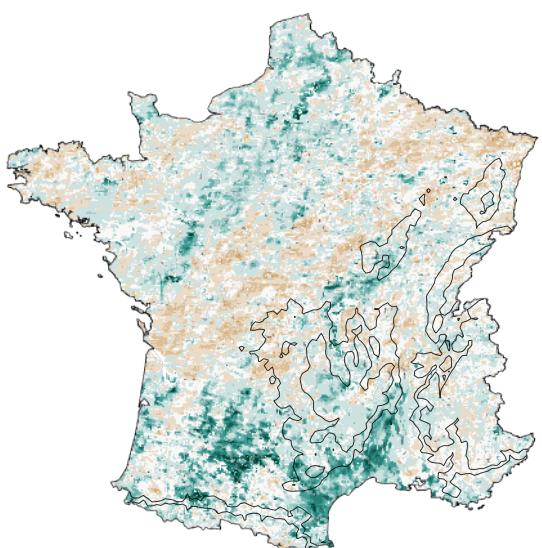
**JAN**  
 $r = 0.08$   
ME = -3.56  
 $n = 488$



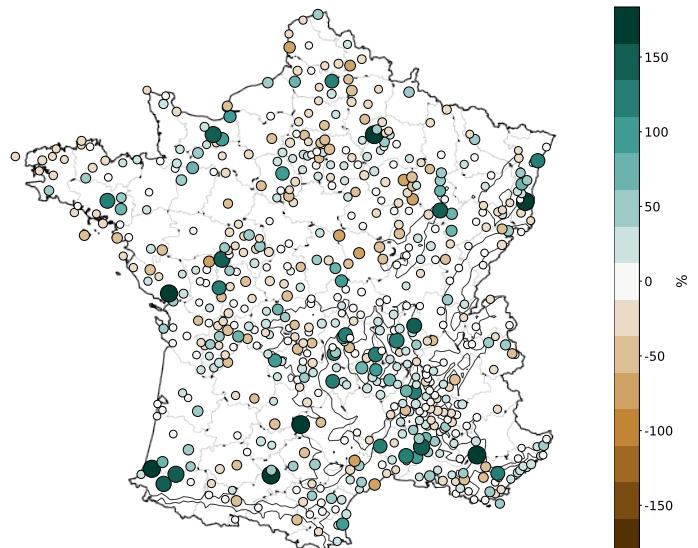
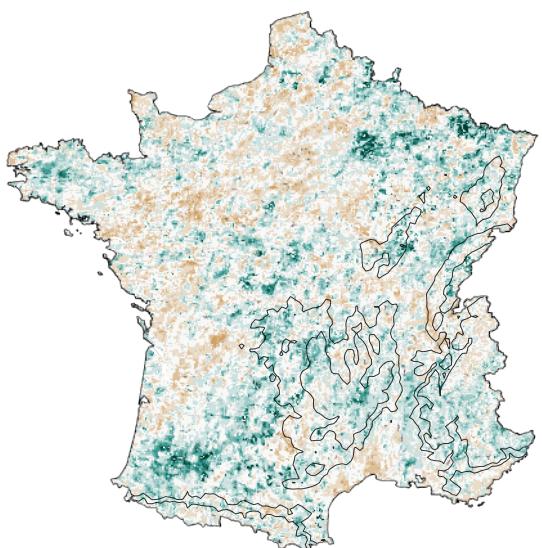
**FEV**  
 $r = 0.42$   
ME = -17.21  
 $n = 508$



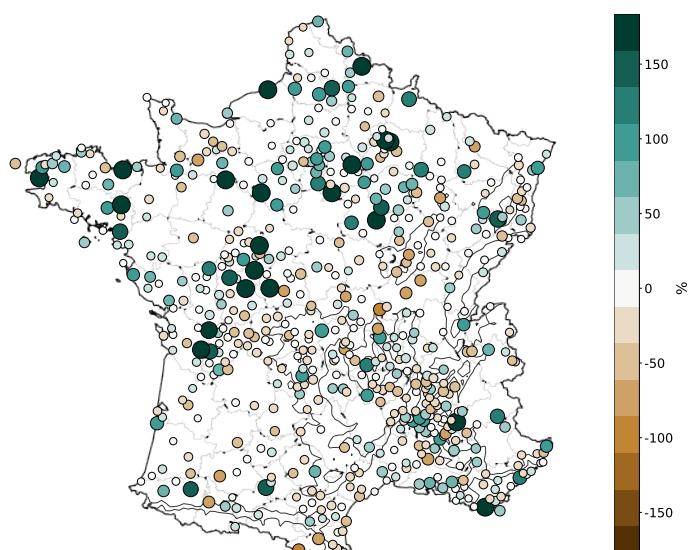
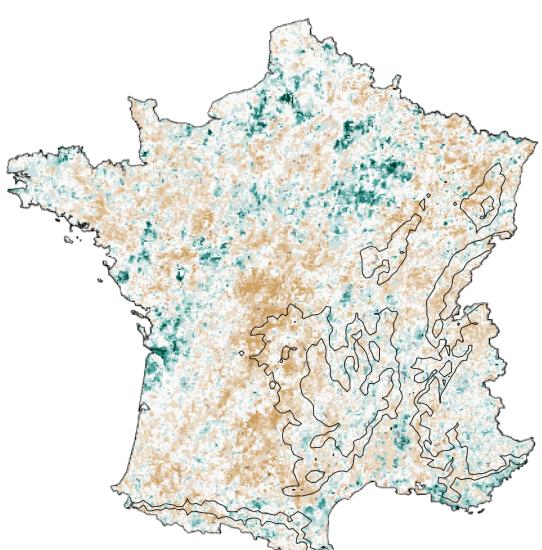
**MAR**  
 $r = 0.23$   
ME = -15.20  
 $n = 588$



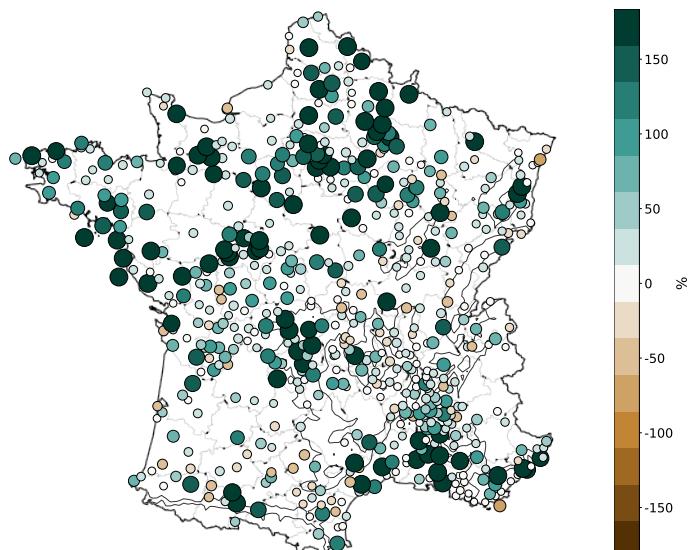
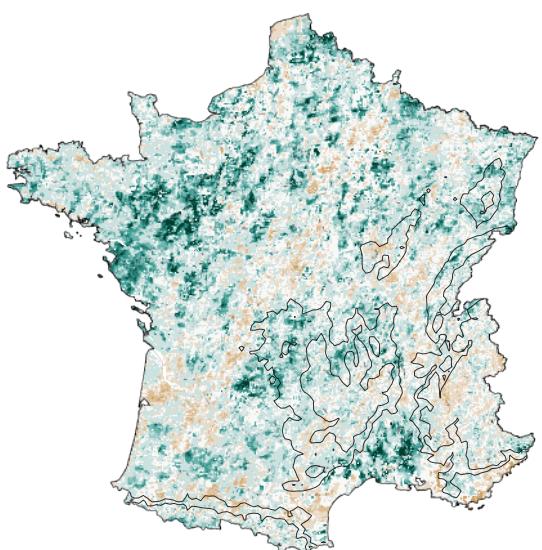
**AVR**  
 $r = 0.12$   
ME = 0.42  
 $n = 600$



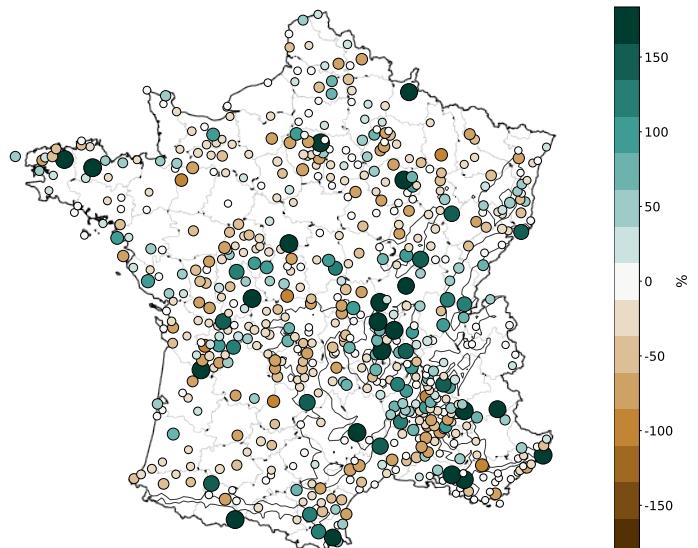
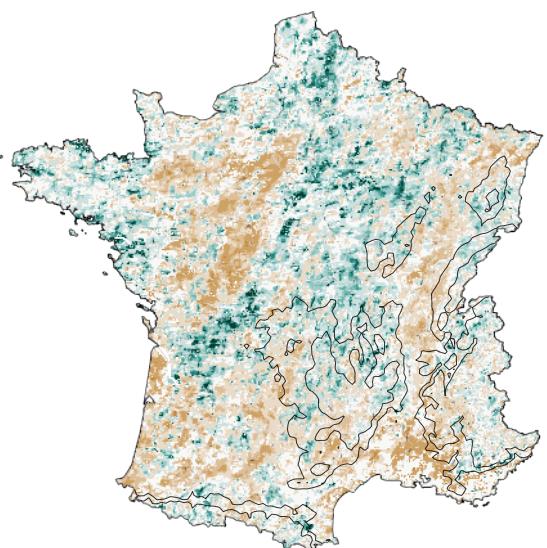
**MAI**  
 $r = 0.07$   
ME = -16.32  
 $n = 590$



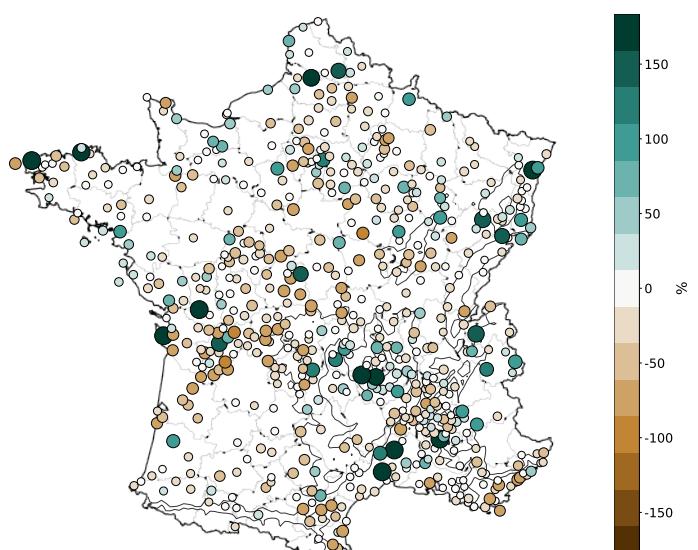
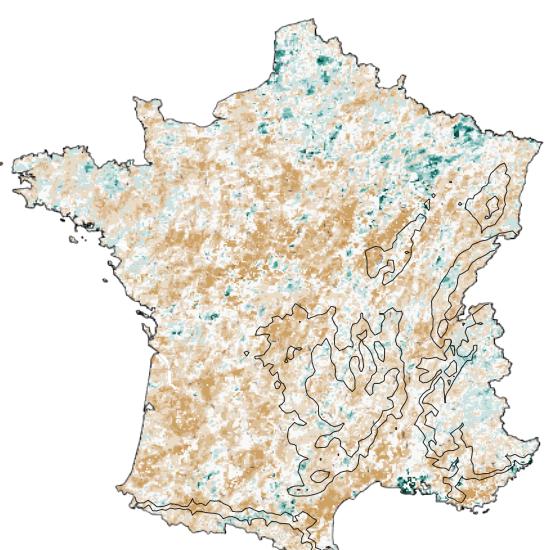
**JUI**  
 $r = 0.09$   
ME = -48.26  
 $n = 600$



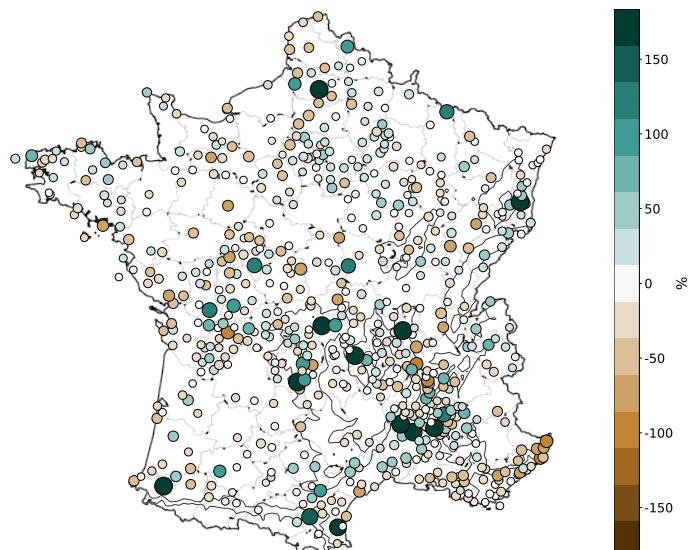
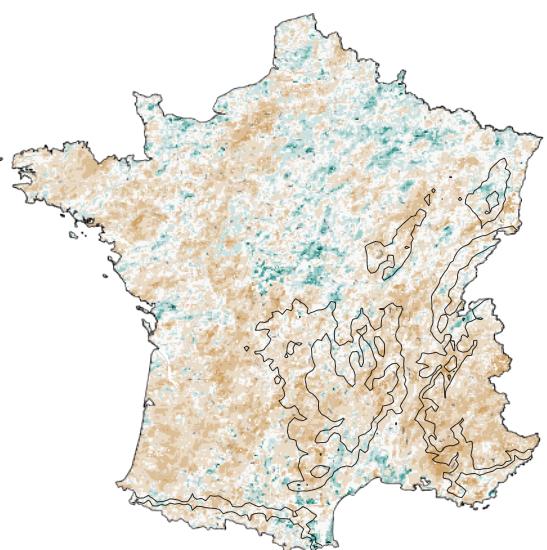
**JUILL**  
 $r = 0.03$   
ME = 1.41  
 $n = 606$

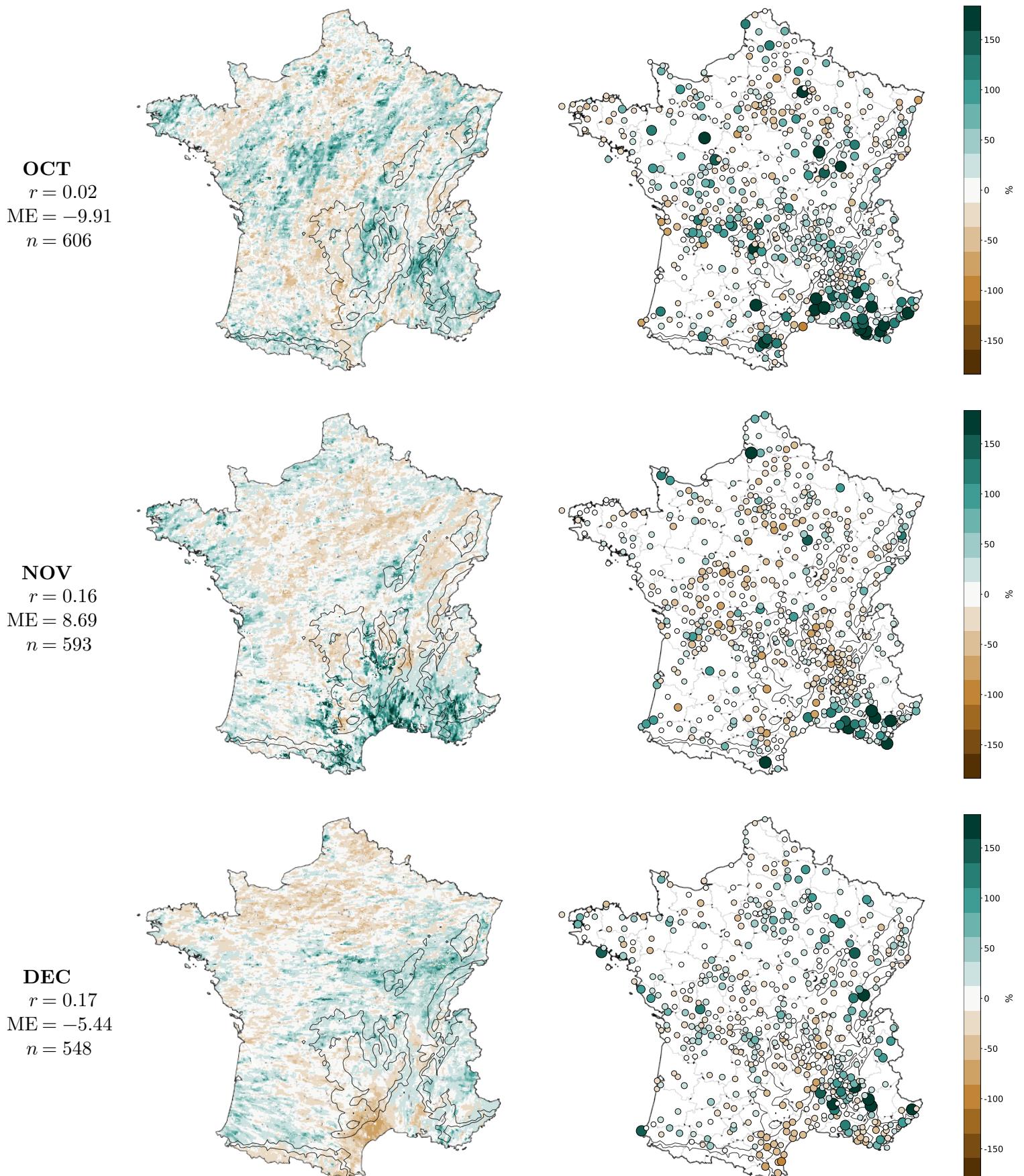


**AOU**  
 $r = 0.09$   
ME = -12.48  
 $n = 602$



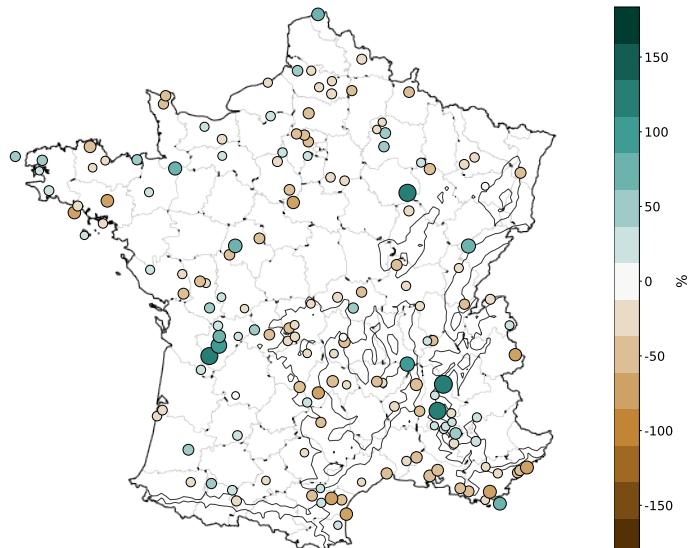
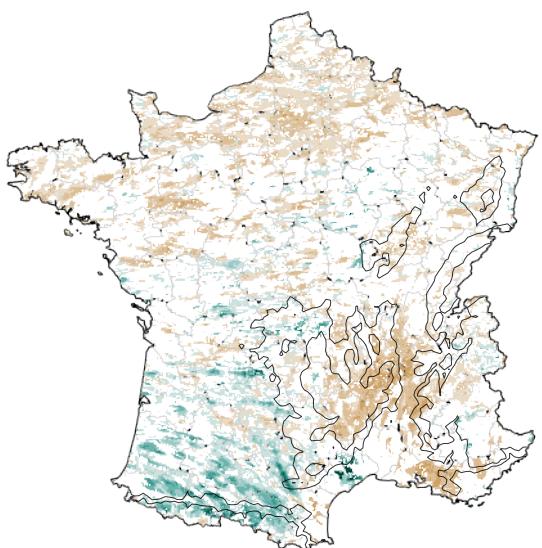
**SEP**  
 $r = 0.02$   
ME = -14.77  
 $n = 620$



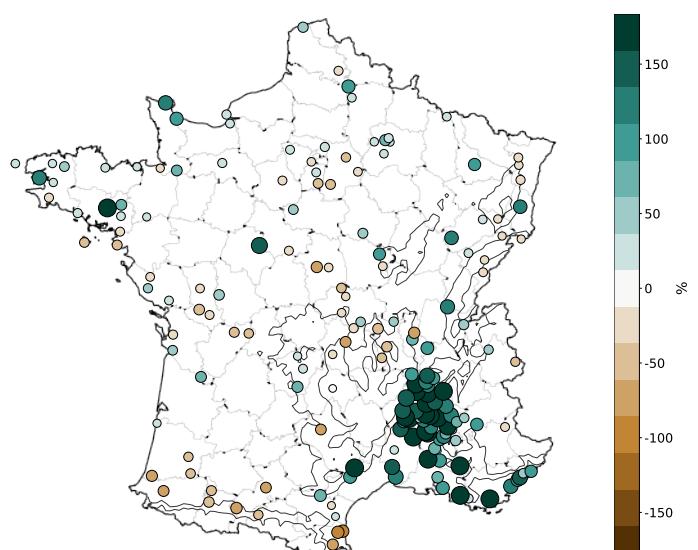
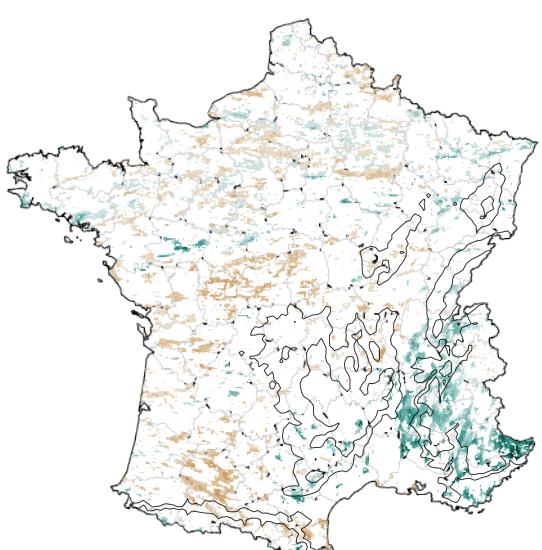


#### 4.3.2.2 Tendances significatives

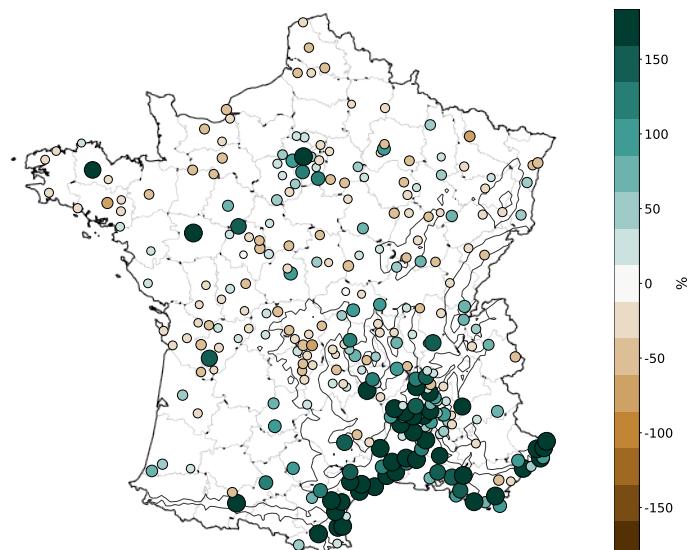
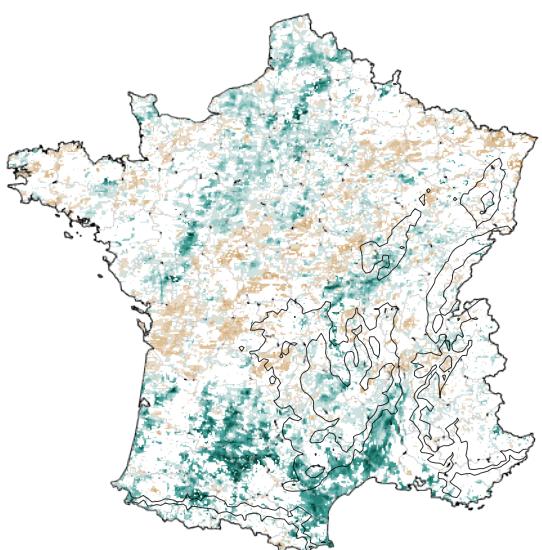
**JAN**  
 $r = 0.07$   
ME = -4.33  
 $n = 66$



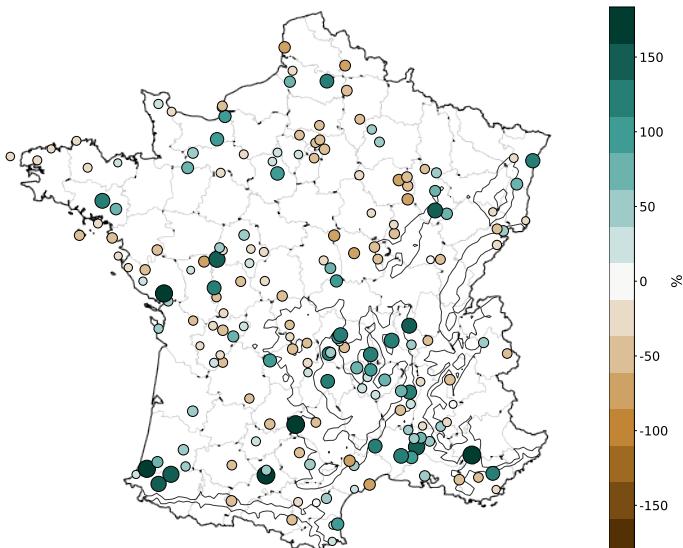
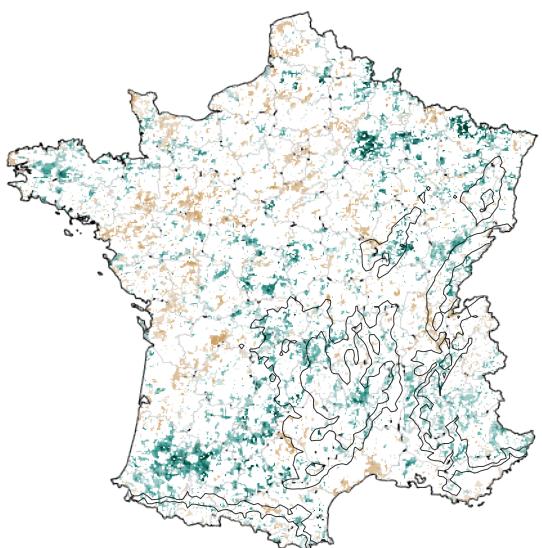
**FEV**  
 $r = 0.66$   
ME = -56.07  
 $n = 51$



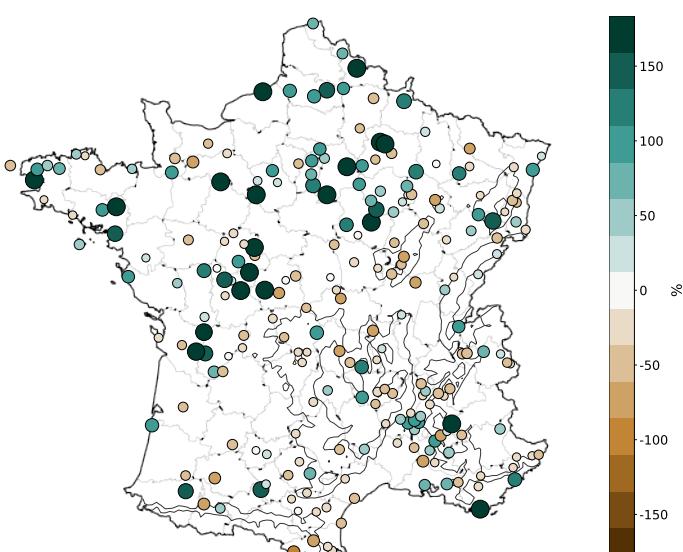
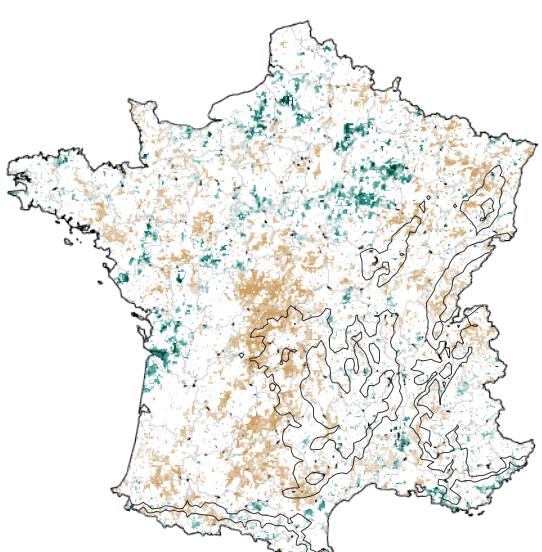
**MAR**  
 $r = 0.48$   
ME = -23.35  
 $n = 136$



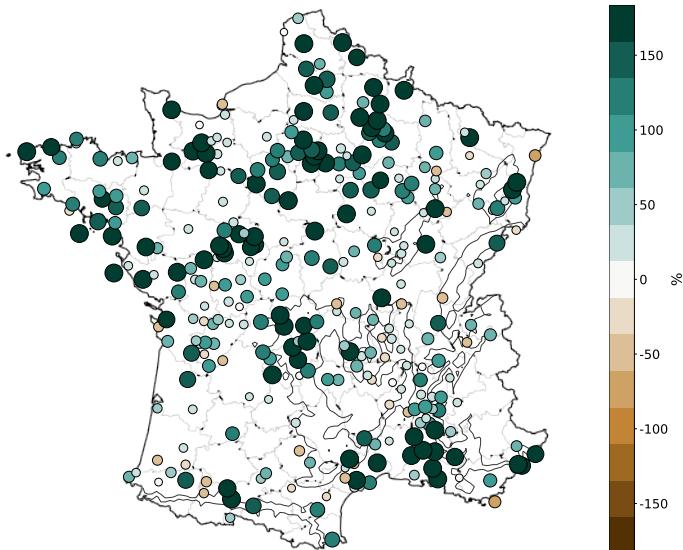
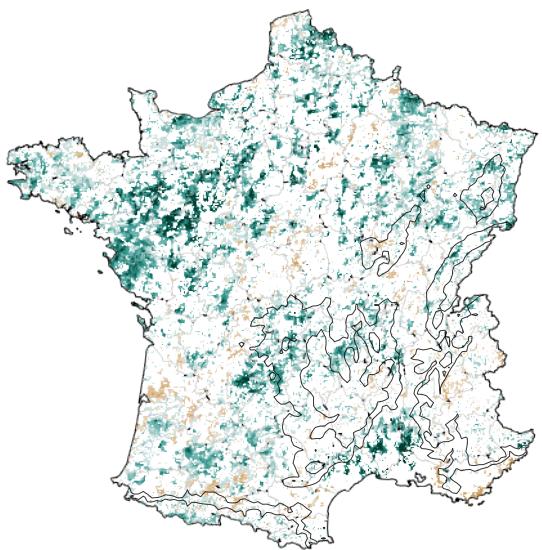
**AVR**  
 $r = 0.37$   
ME = 21.11  
 $n = 46$



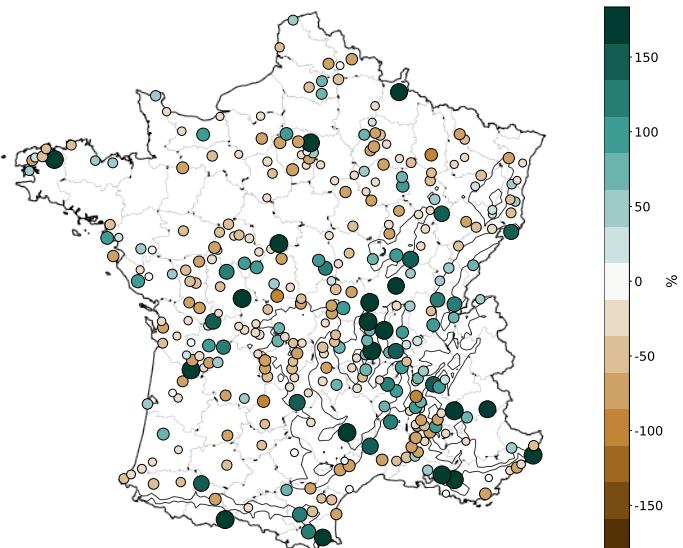
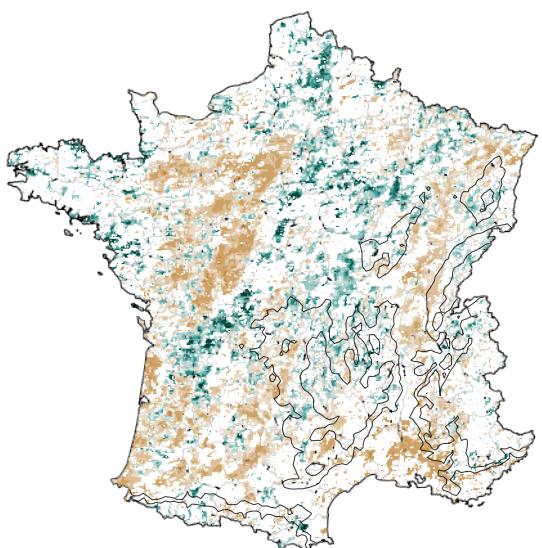
**MAI**  
 $r = -0.01$   
ME = -52.04  
 $n = 79$



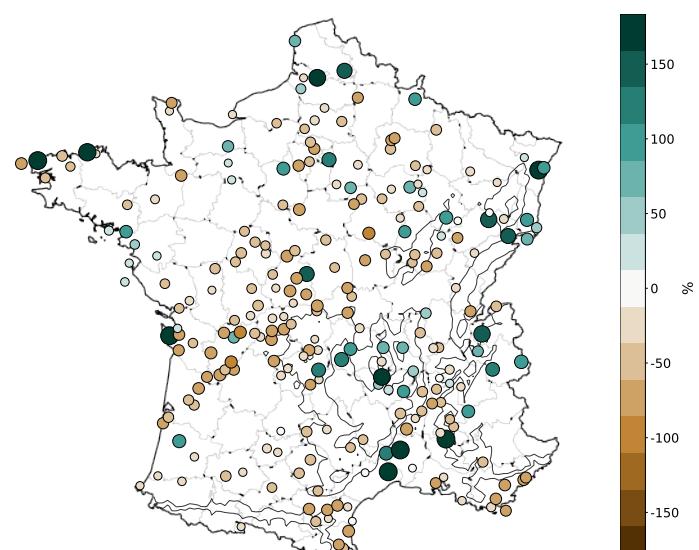
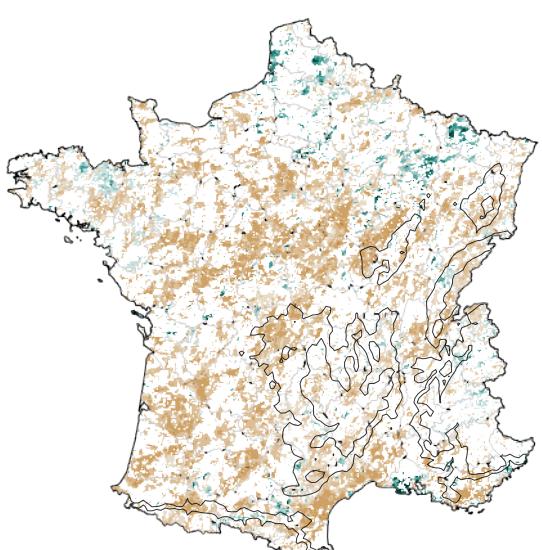
**JUI**  
 $r = 0.07$   
ME = -71.53  
 $n = 121$



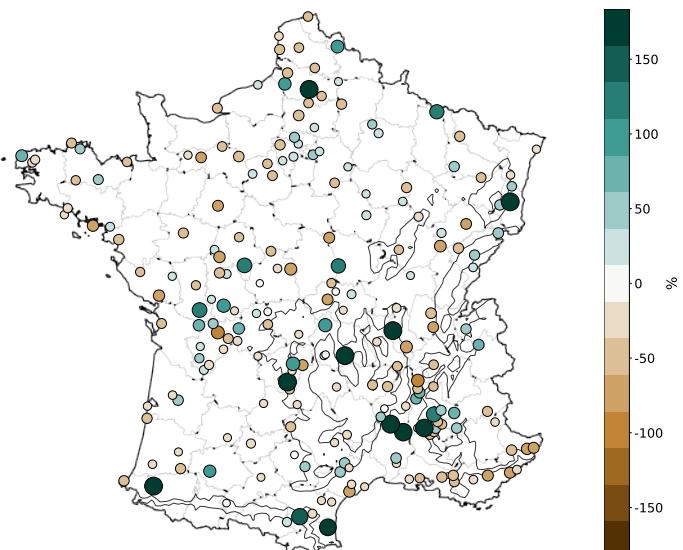
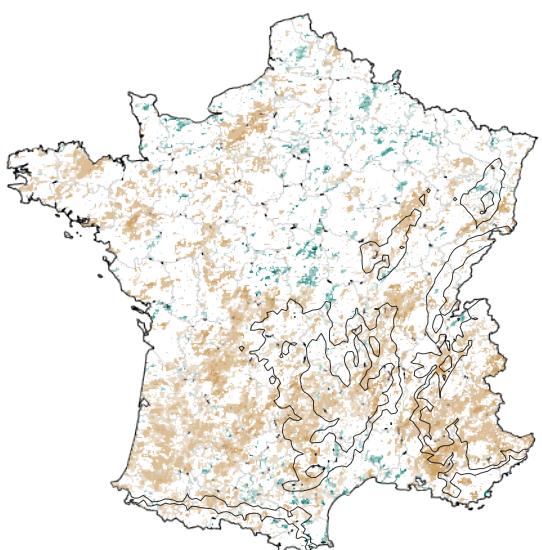
**JUILL**  
 $r = 0.02$   
ME = 8.28  
 $n = 167$

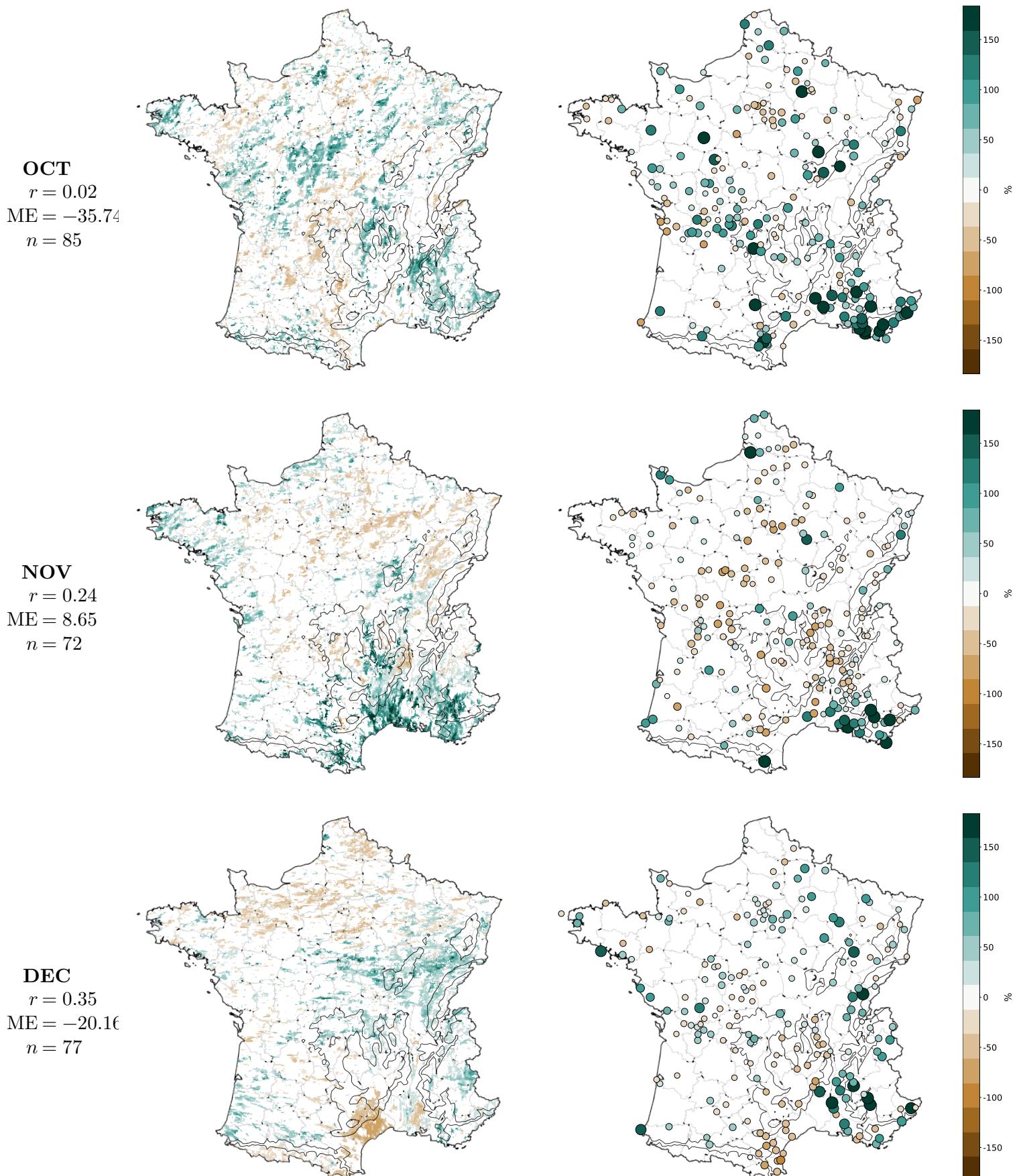


**AOU**  
 $r = 0.17$   
ME = -15.32  
 $n = 105$



**SEP**  
 $r = -0.01$   
ME = -20.16  
 $n = 97$





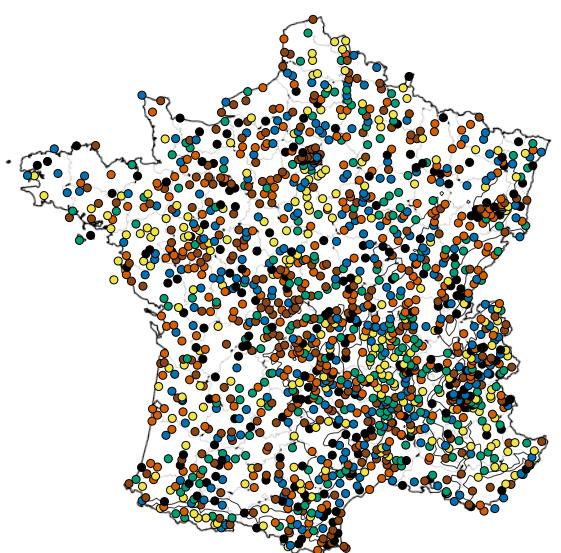
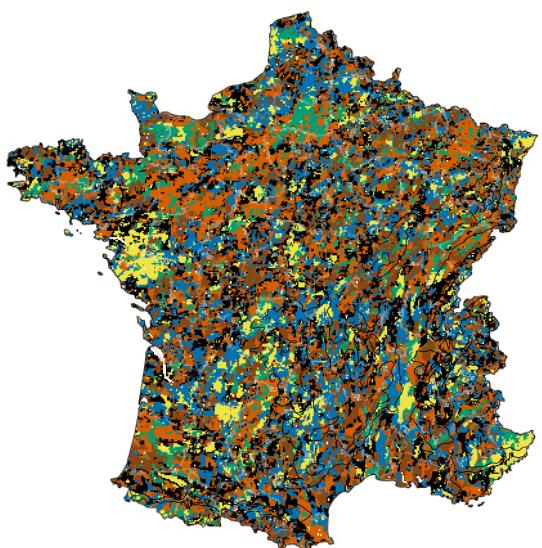
## 5 Meilleur modèle GEV

### 5.1 Données journalières (1959-2022)

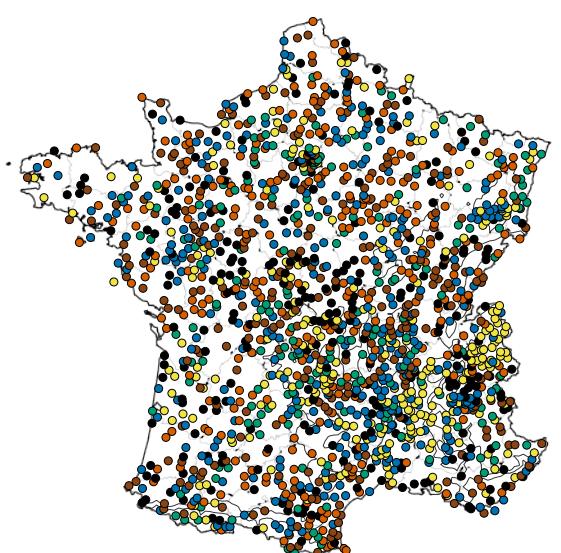
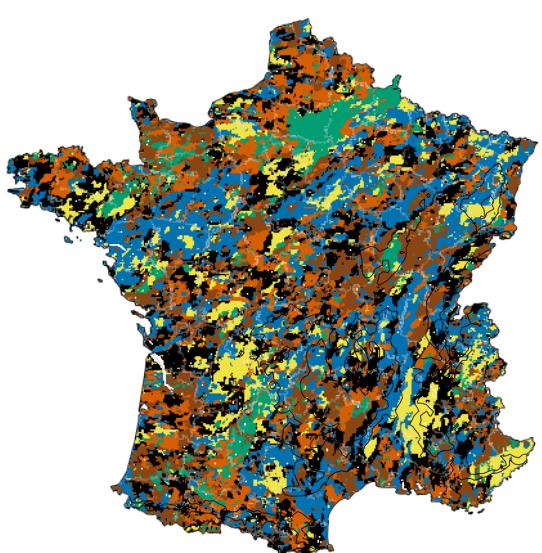
#### 5.1.1 Par saison

##### 5.1.1.1 Toutes tendances

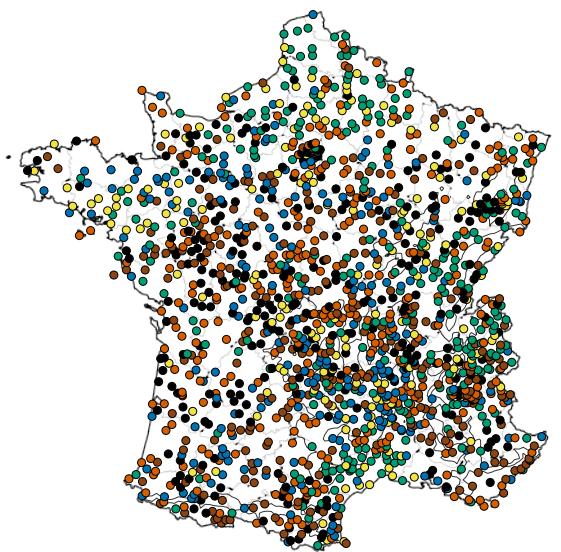
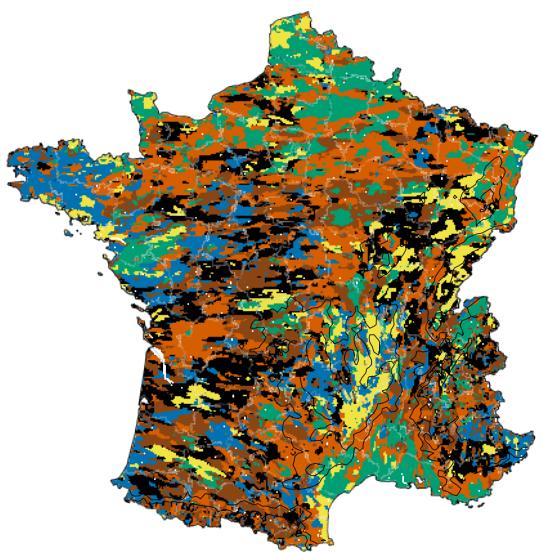
**HYDRO**



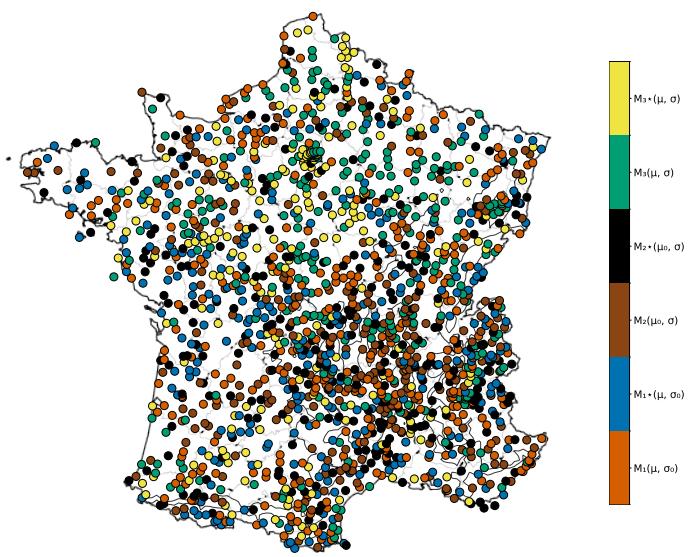
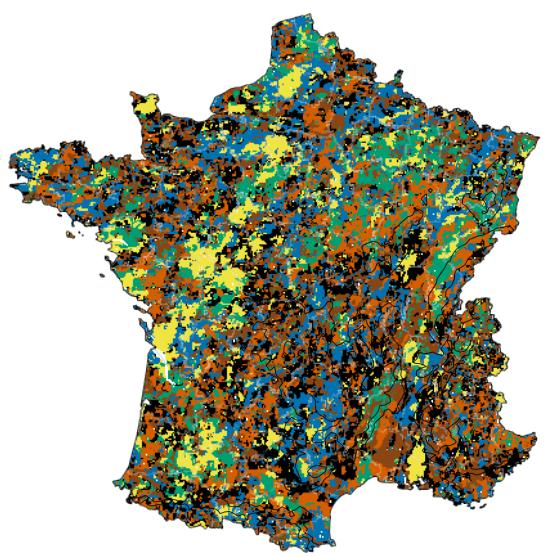
**SON**



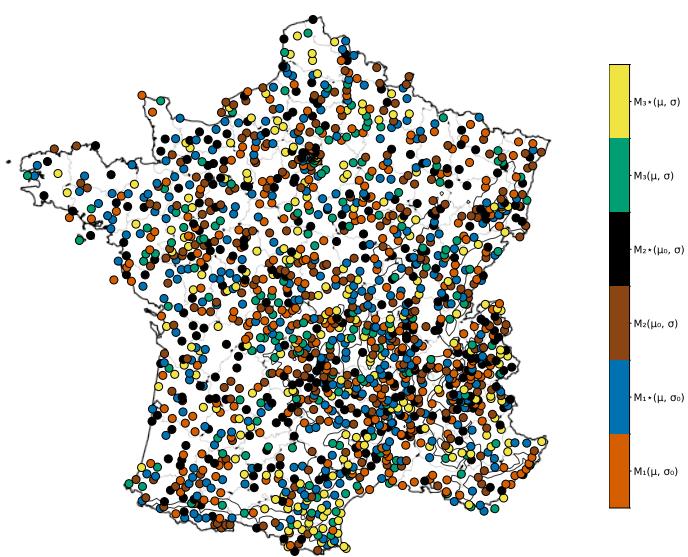
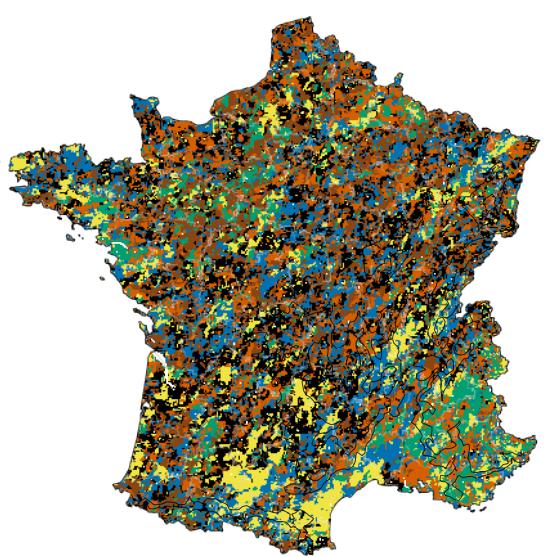
**DJF**



MAM

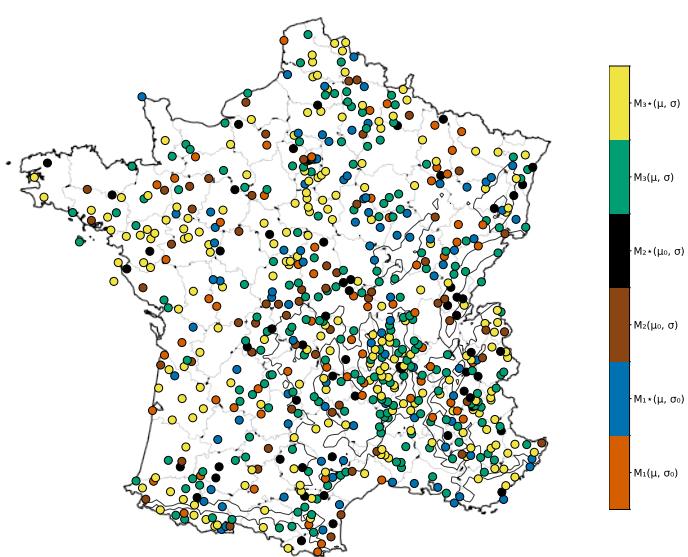
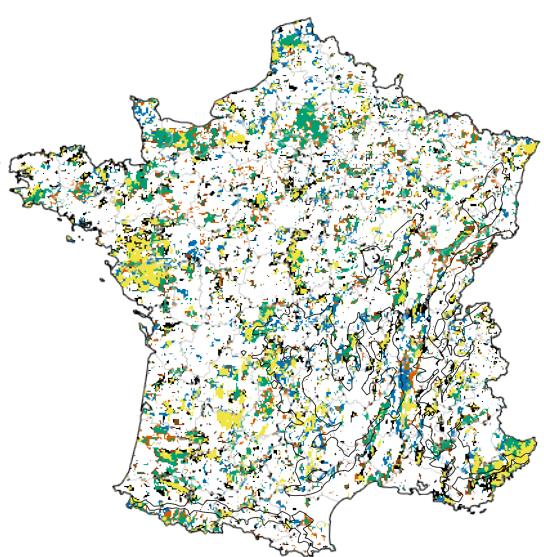


JJA

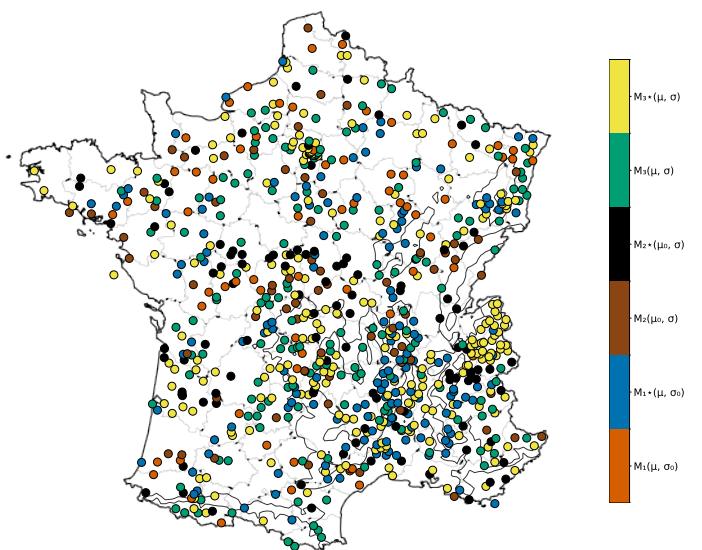
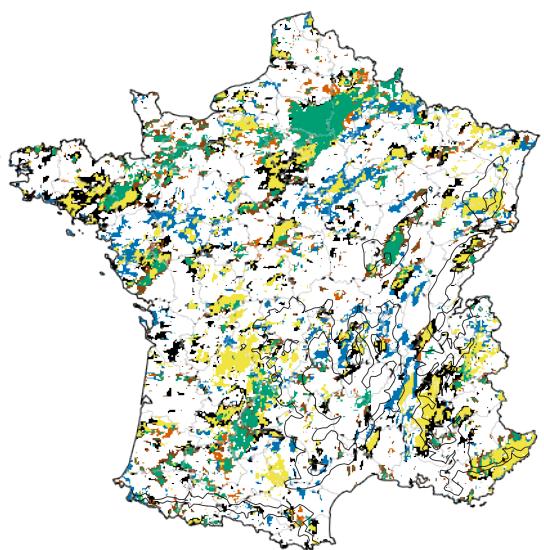


#### 5.1.1.2 Tendances significatives

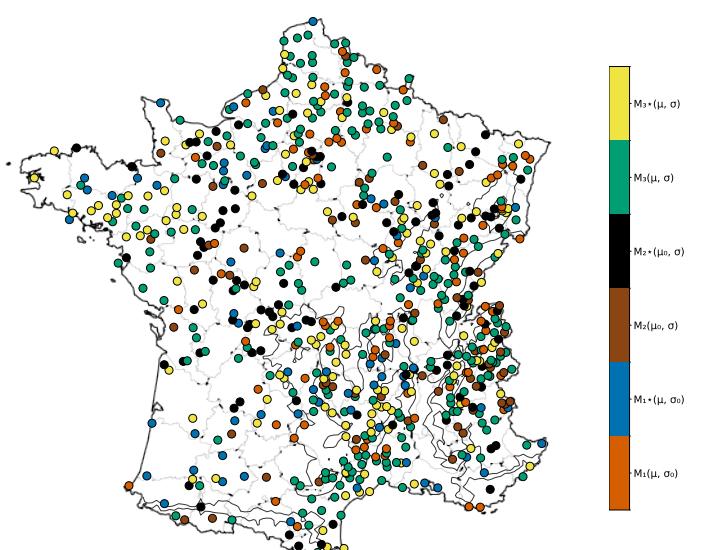
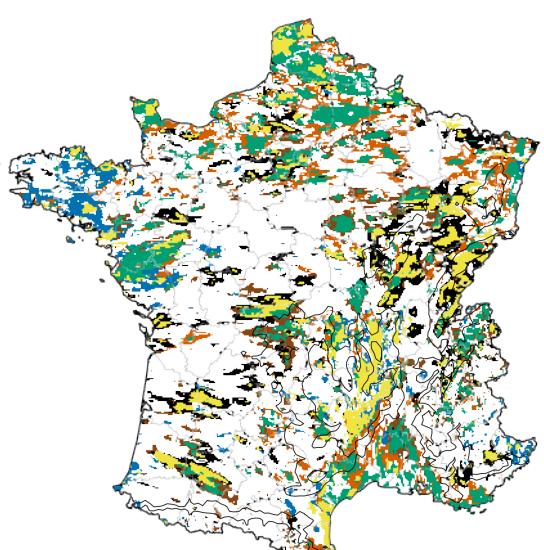
HYDRO



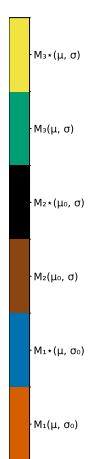
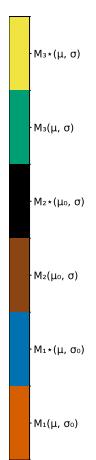
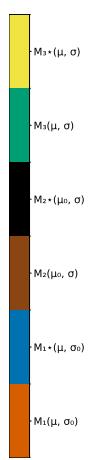
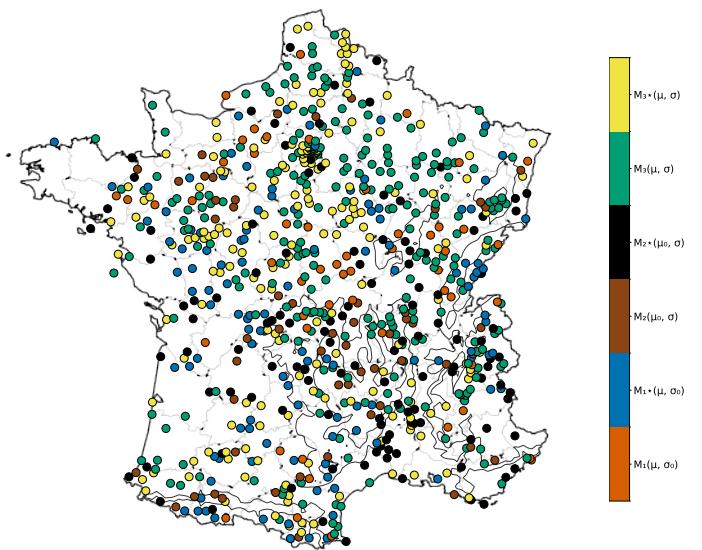
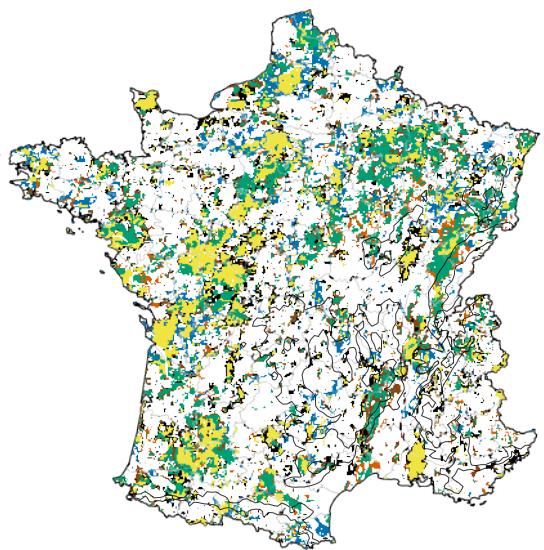
SON



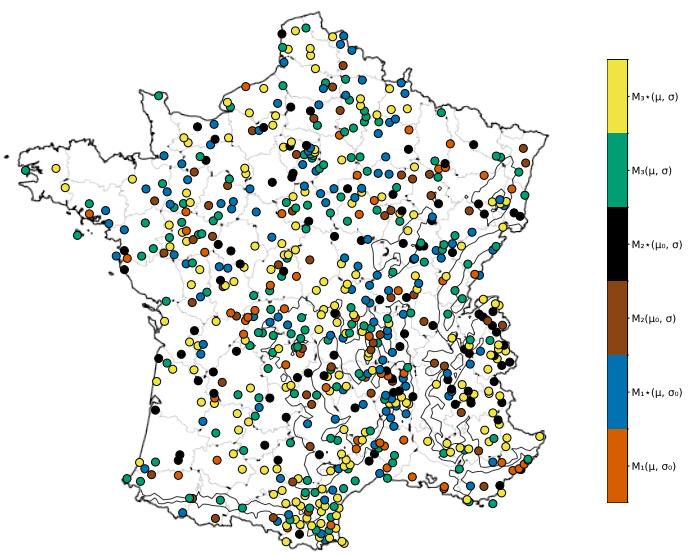
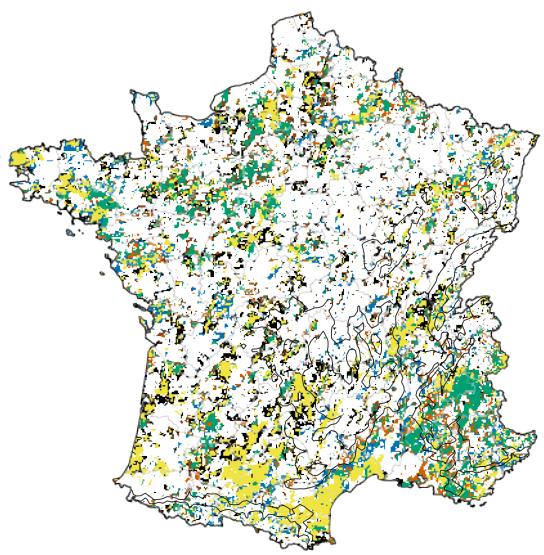
DJF



MAM



JJA

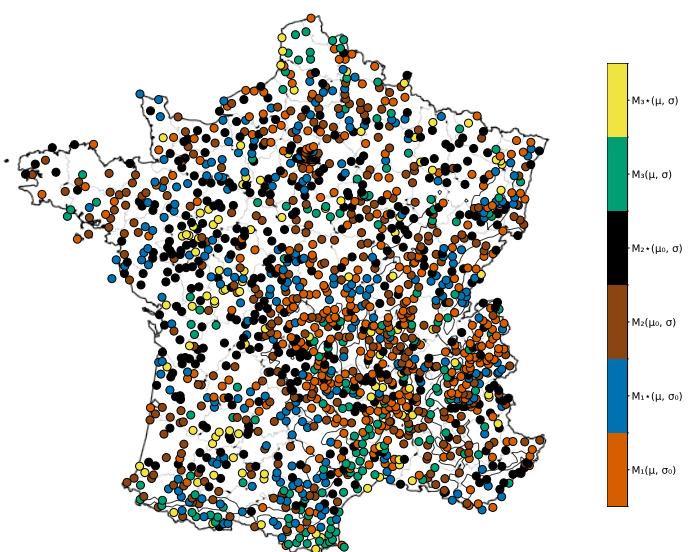
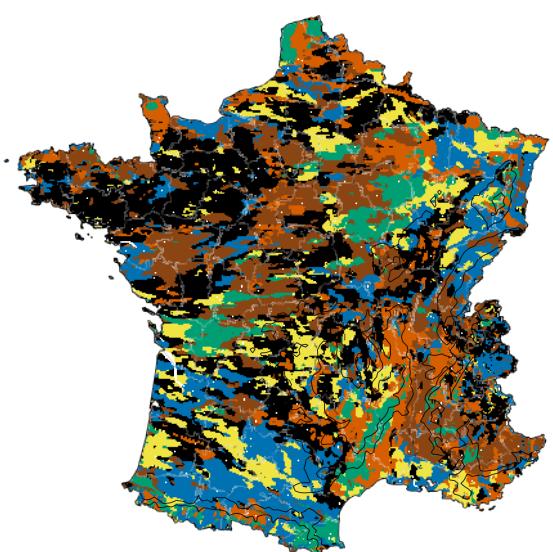


|   |                            |
|---|----------------------------|
| ■ | $M_3 \times (\mu, \sigma)$ |
| ● | $M_3(\mu, \sigma)$         |
| ○ | $M_2 \times (\mu, \sigma)$ |
| ■ | $M_2(\mu, \sigma)$         |
| ● | $M_1 \times (\mu, \sigma)$ |
| ○ | $M_1(\mu, \sigma)$         |

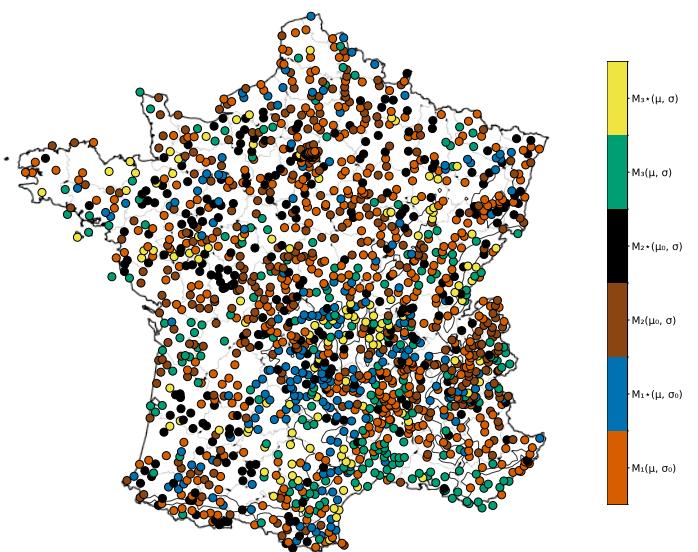
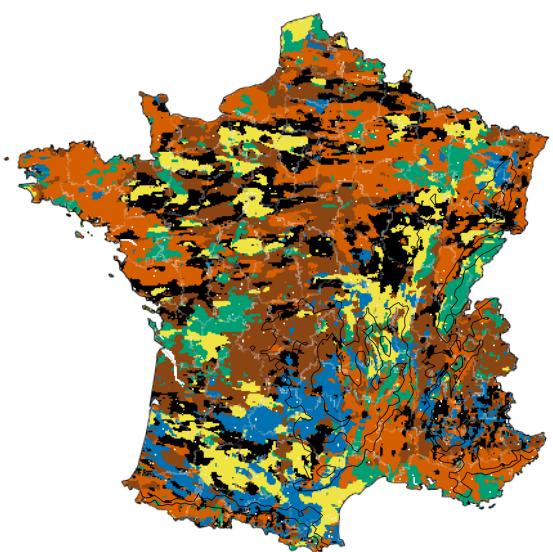
### 5.1.2 Par mois

#### 5.1.2.1 Toutes tendances

JAN

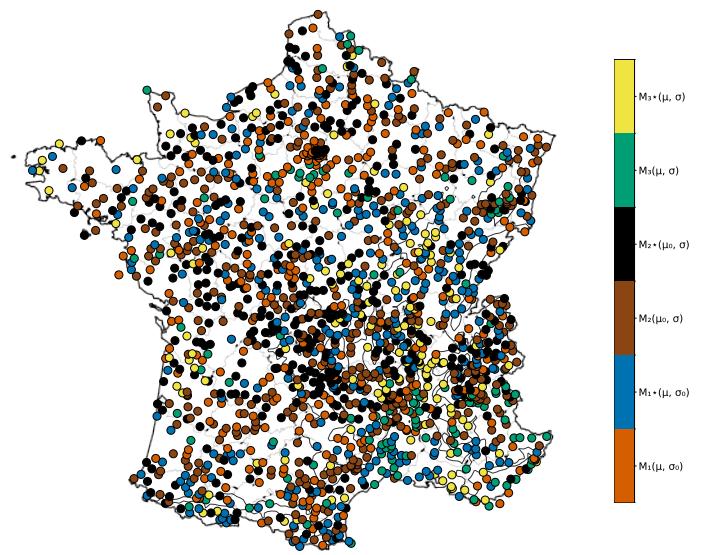
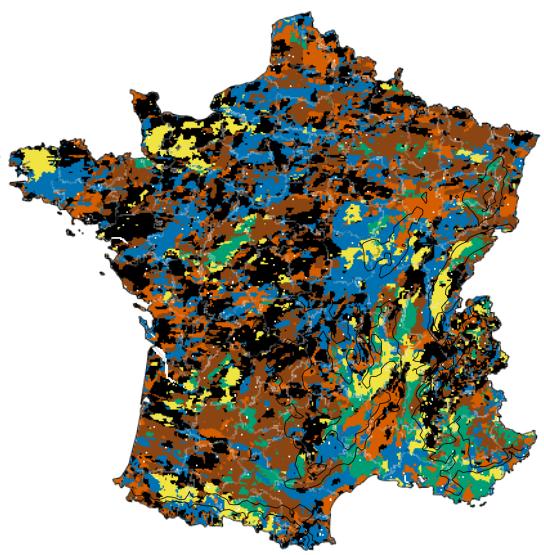


FEV

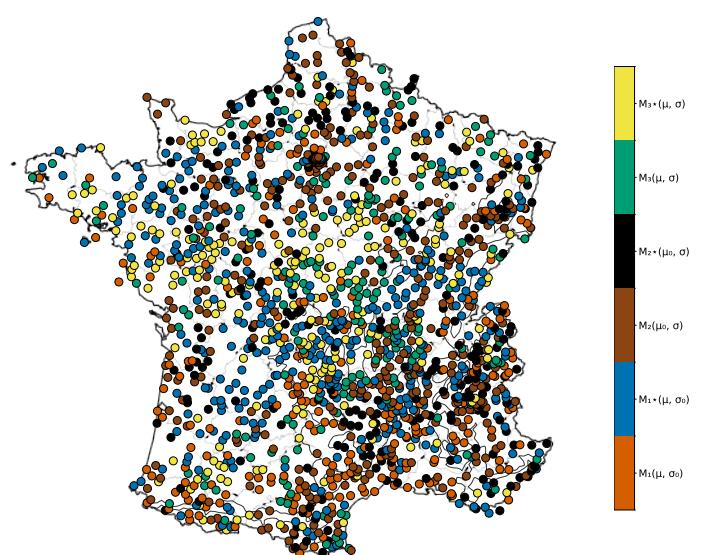
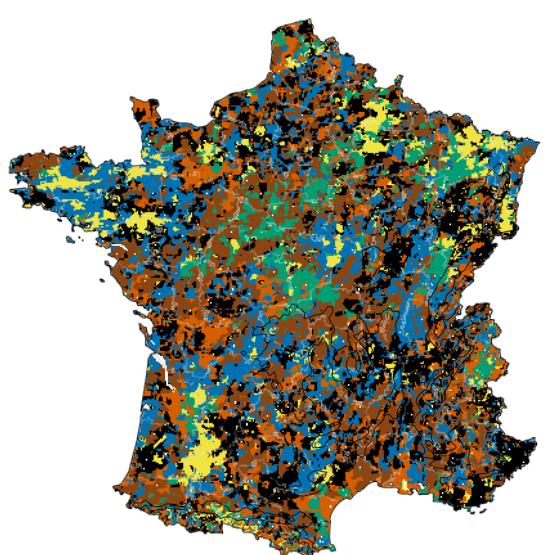


|   |                            |
|---|----------------------------|
| ■ | $M_3 \times (\mu, \sigma)$ |
| ● | $M_3(\mu, \sigma)$         |
| ○ | $M_2 \times (\mu, \sigma)$ |
| ■ | $M_2(\mu, \sigma)$         |
| ● | $M_1 \times (\mu, \sigma)$ |
| ○ | $M_1(\mu, \sigma)$         |

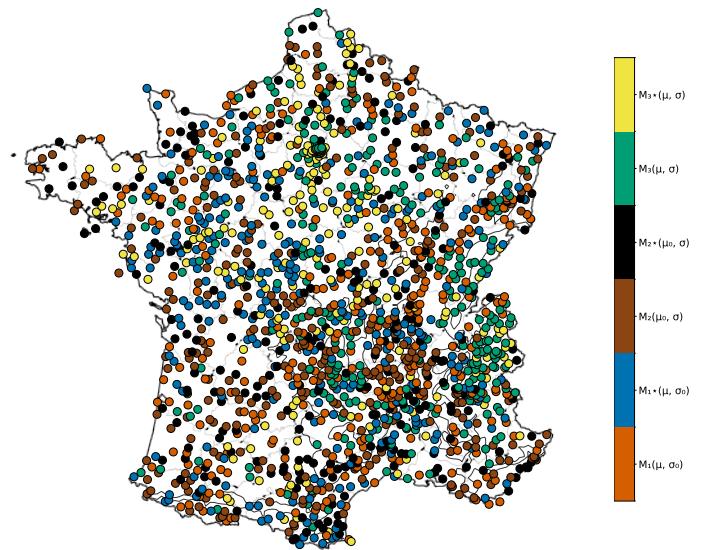
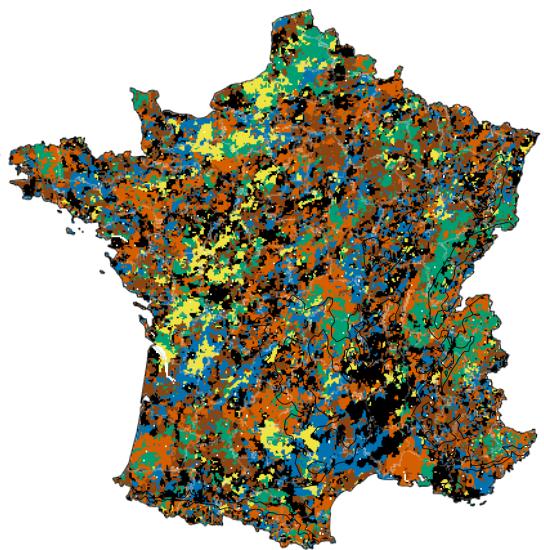
MAR



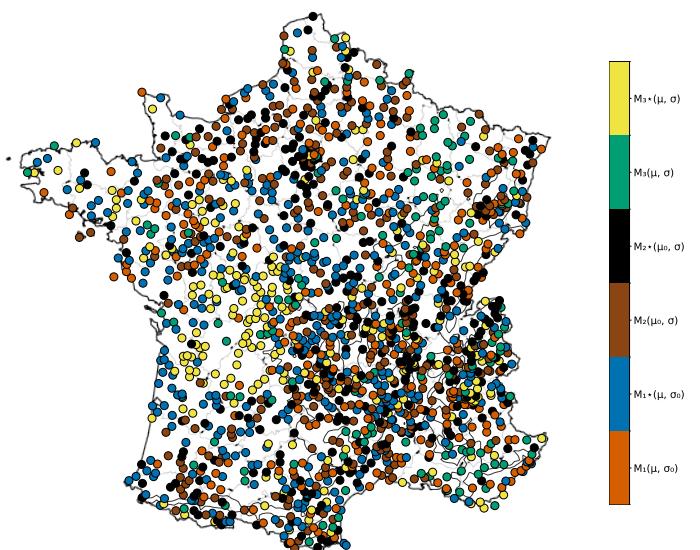
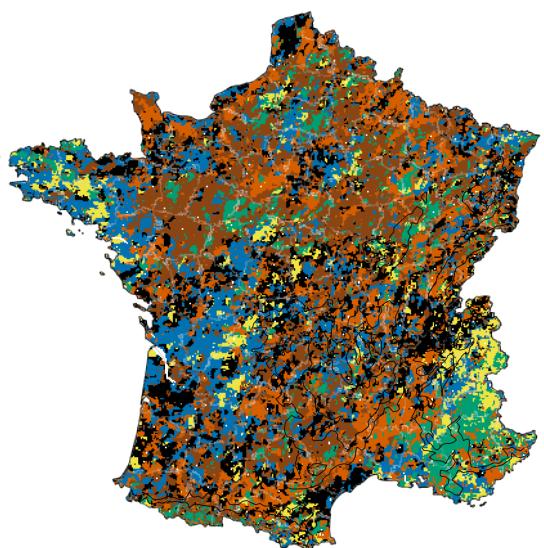
AVR



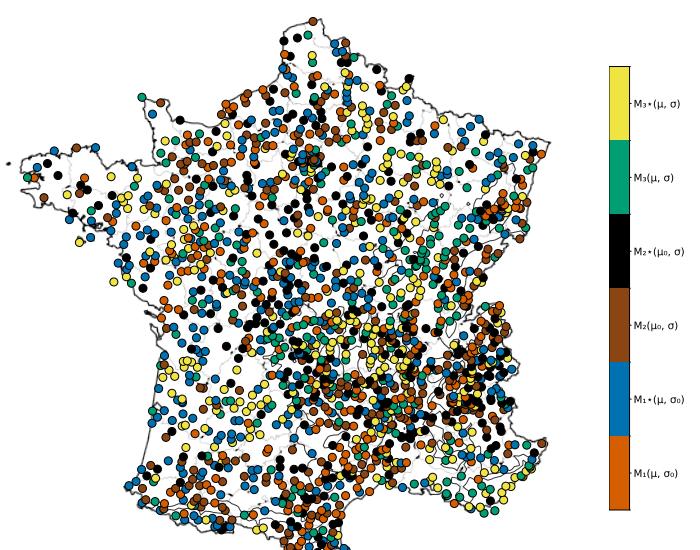
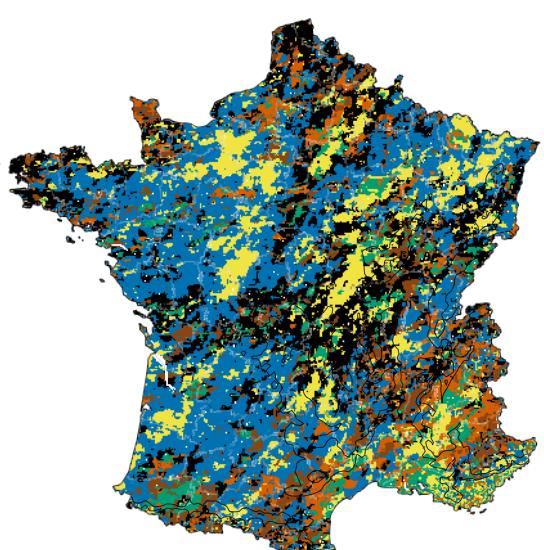
MAI



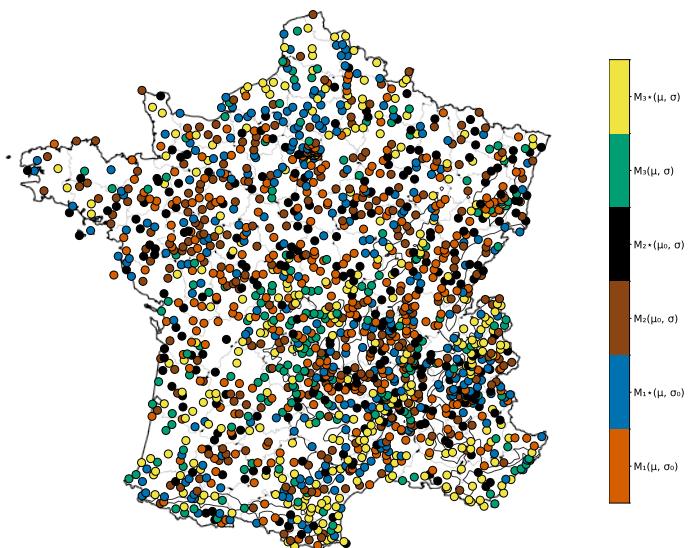
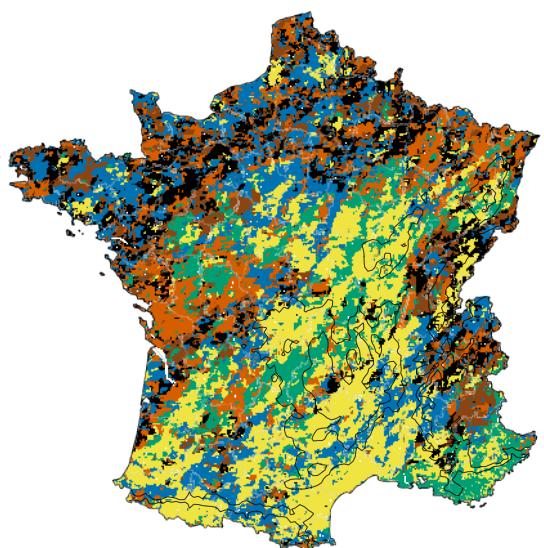
JUI



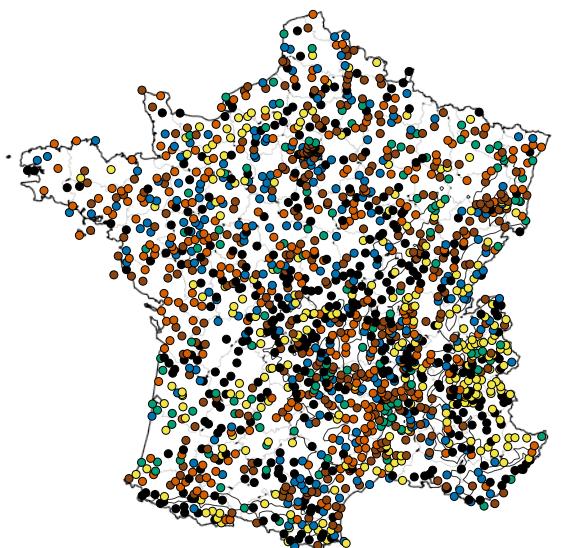
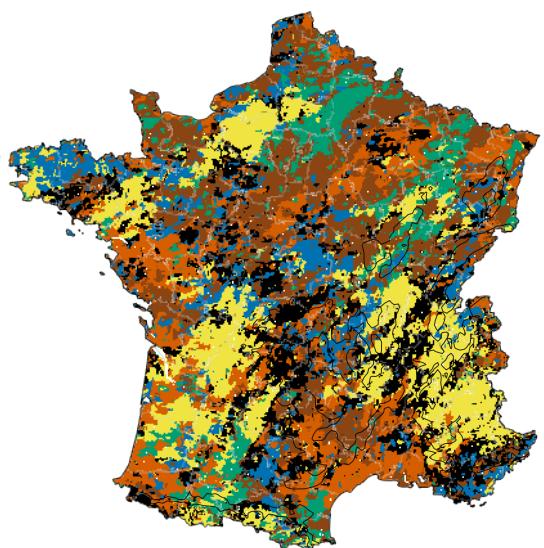
JUILL



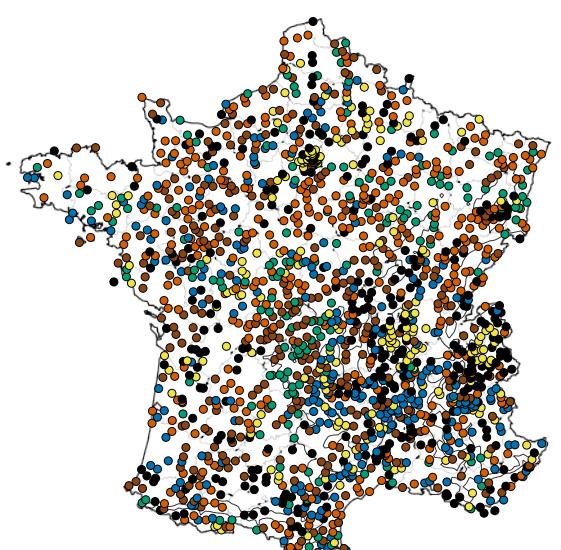
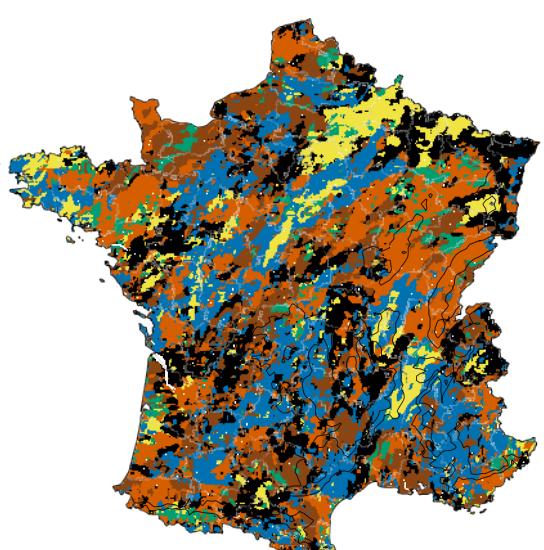
AOU



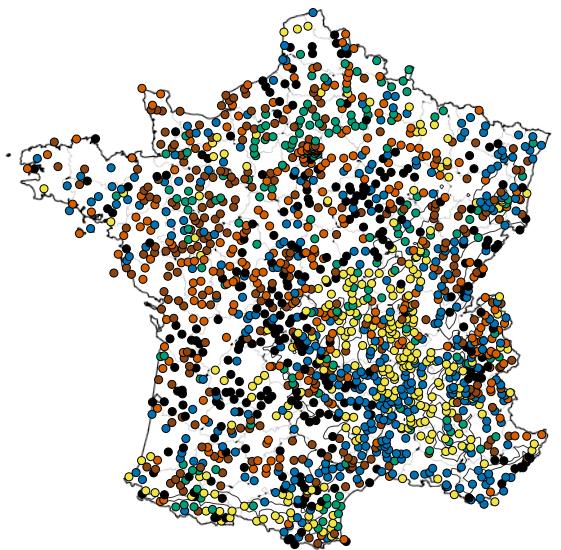
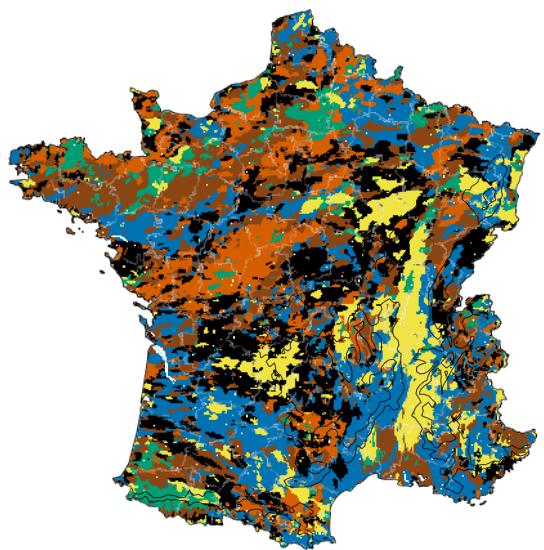
SEP



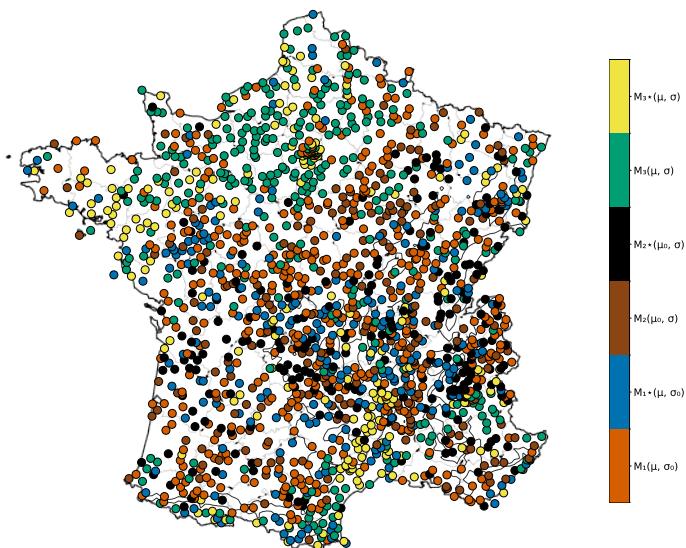
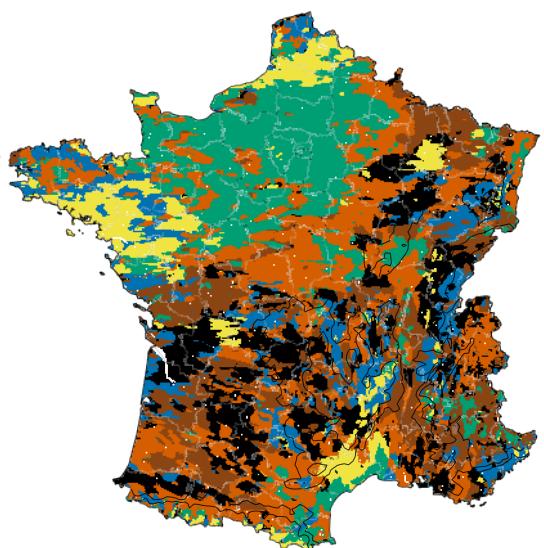
OCT



NOV

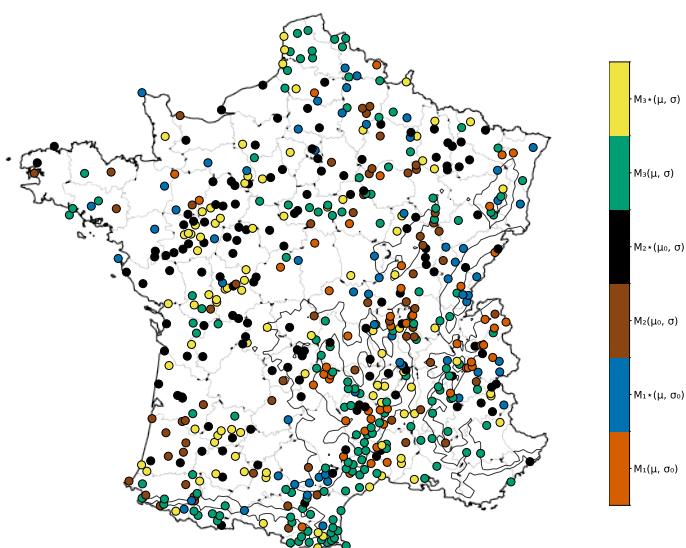
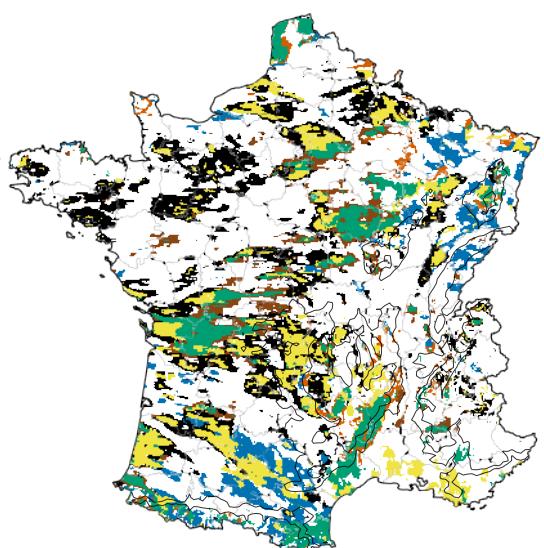


DEC

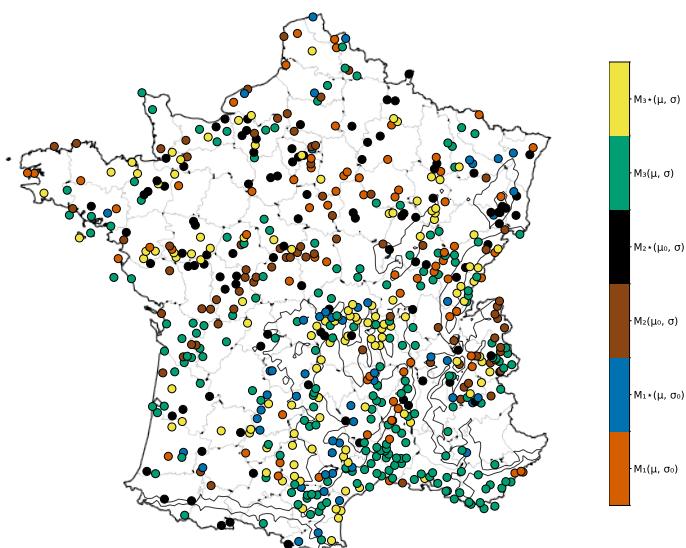
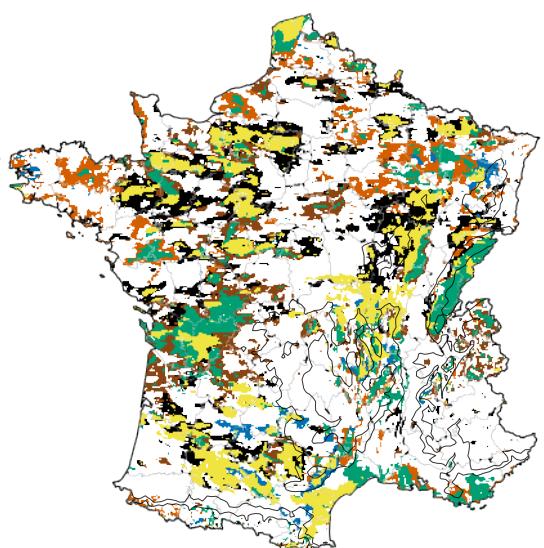


#### 5.1.2.2 Tendances significatives

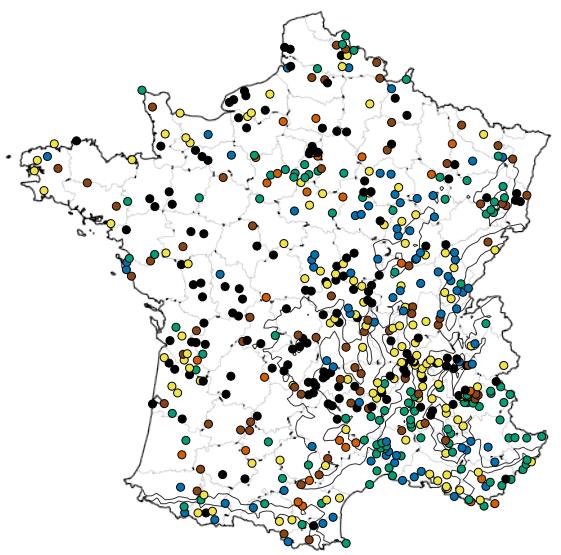
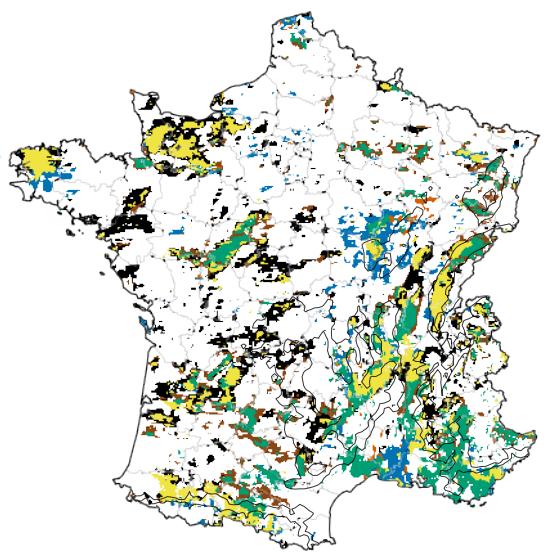
JAN



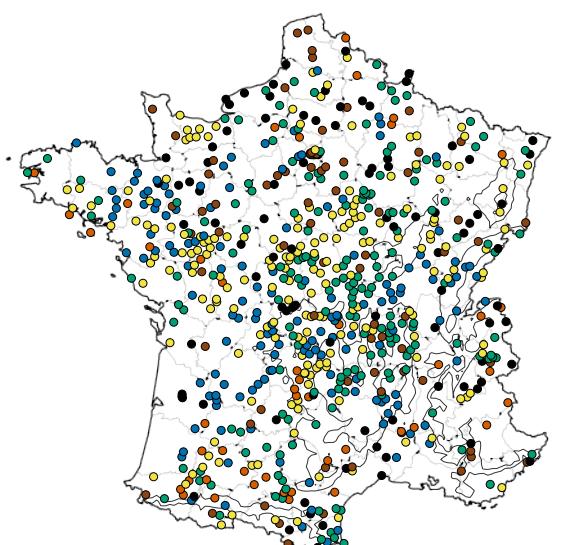
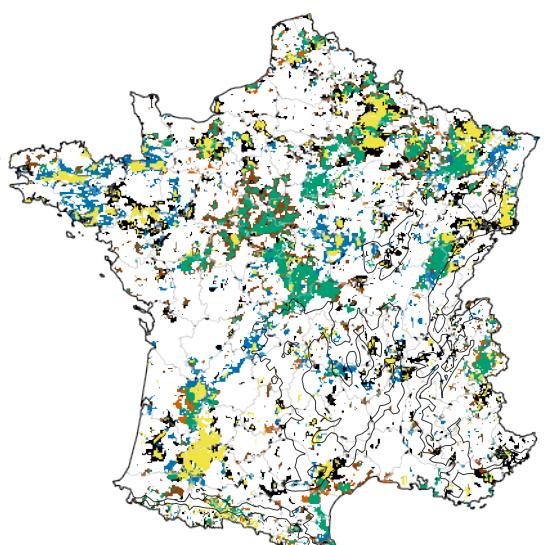
FEV



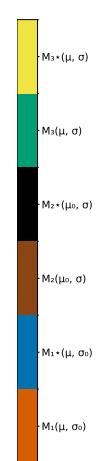
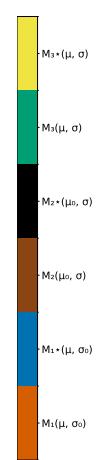
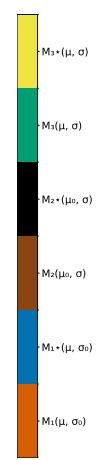
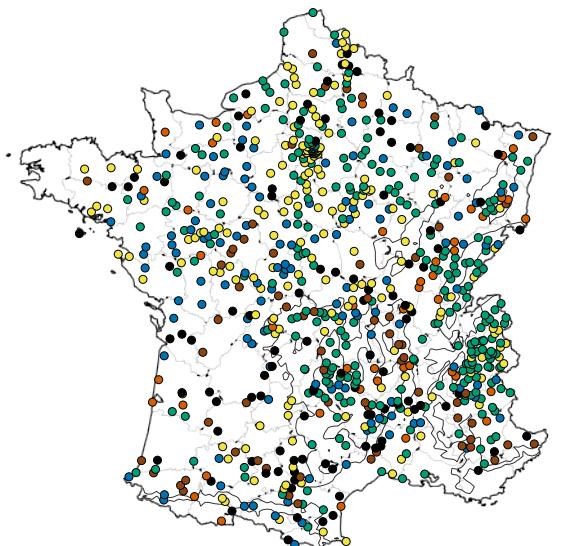
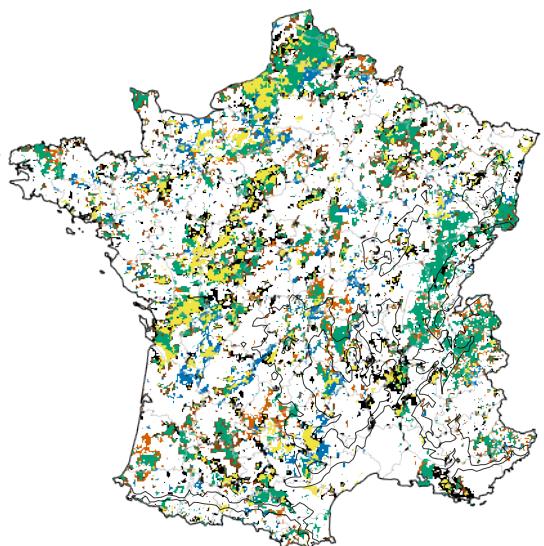
MAR



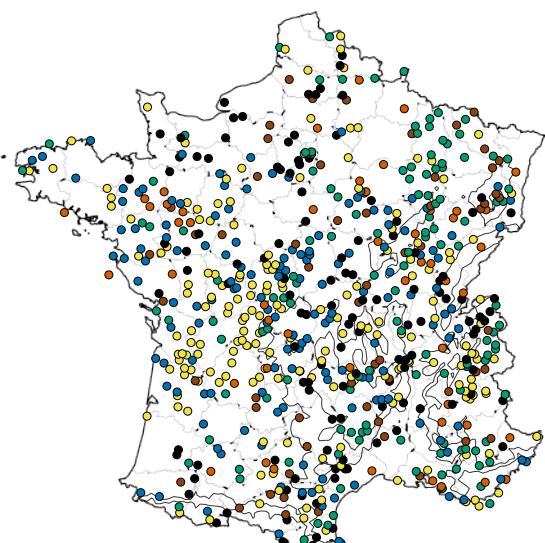
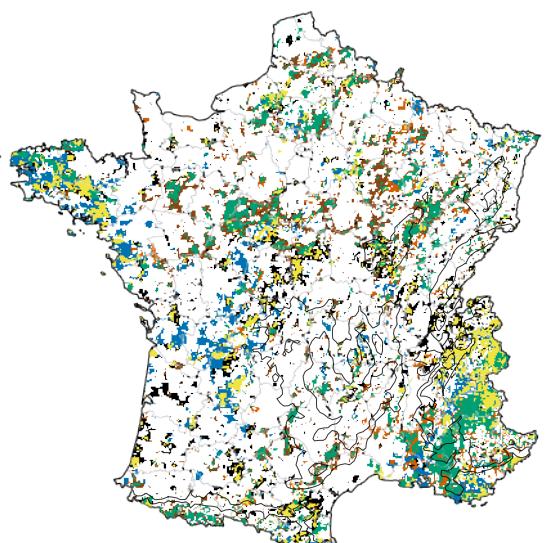
AVR



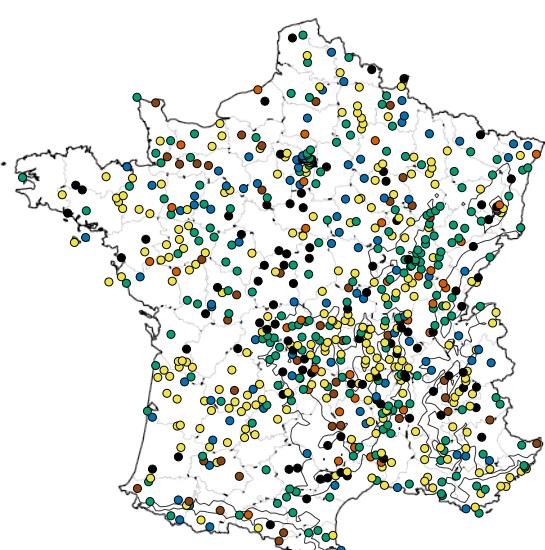
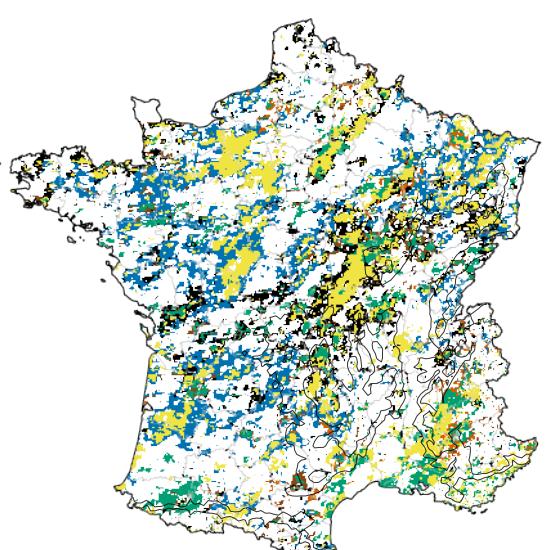
MAI



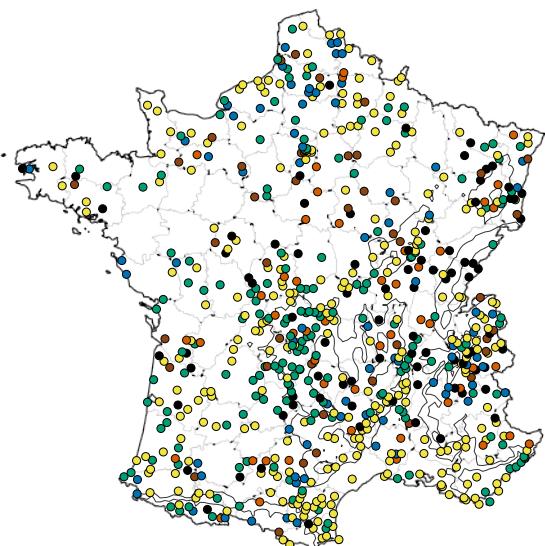
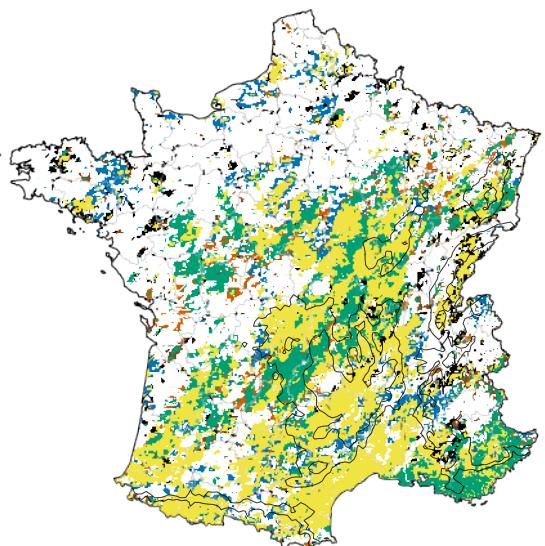
JUI



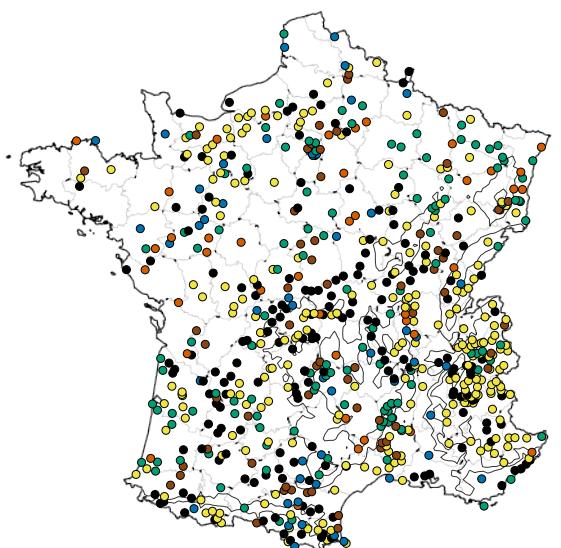
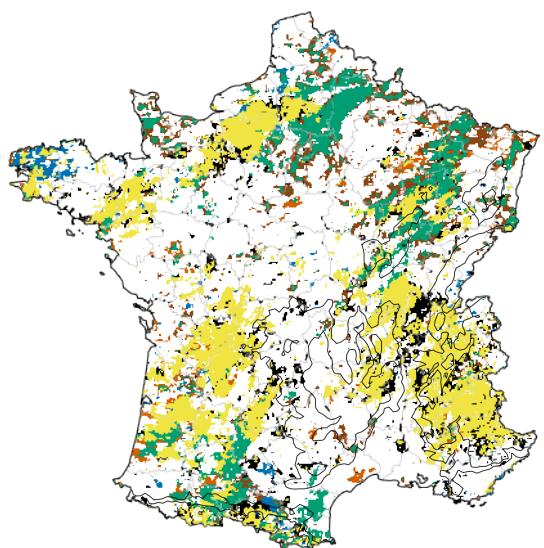
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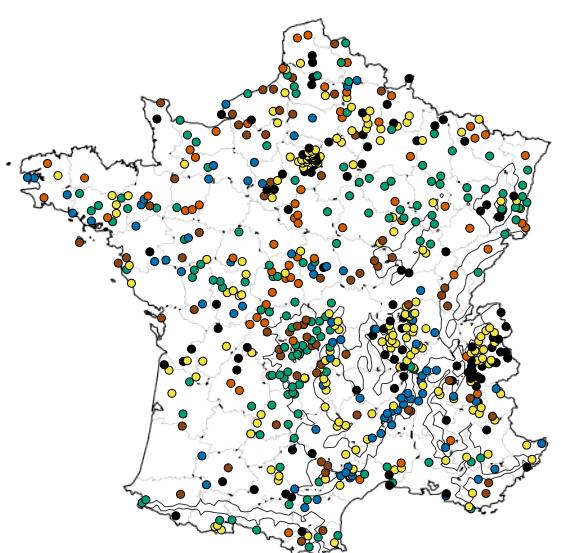
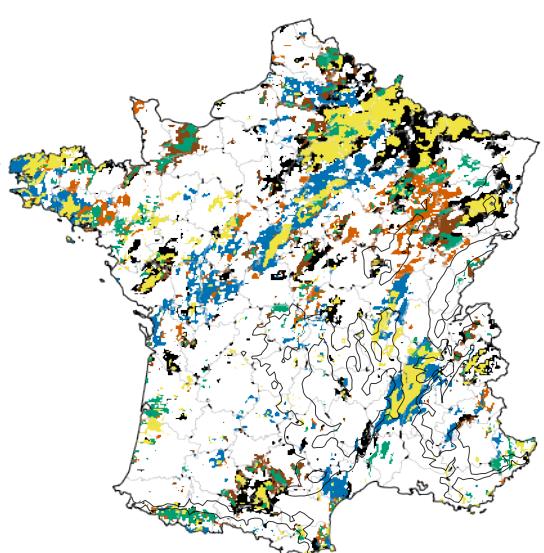
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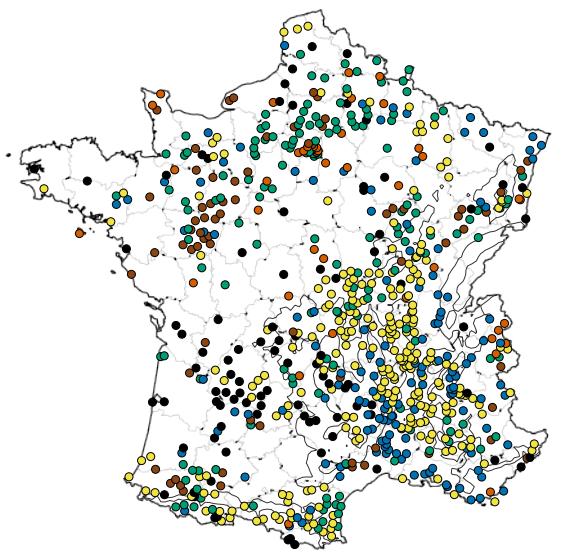
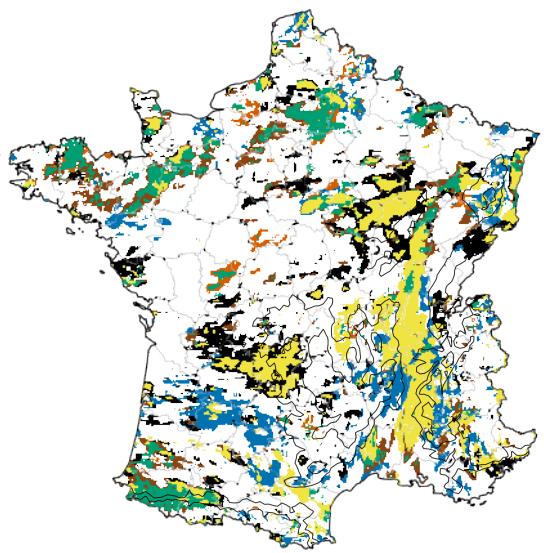
SEP



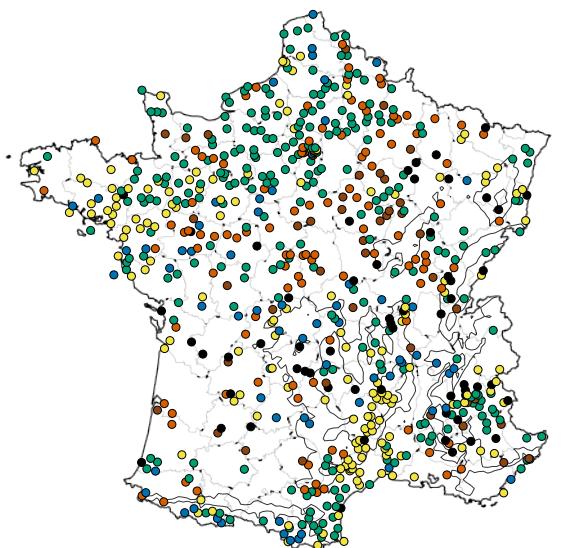
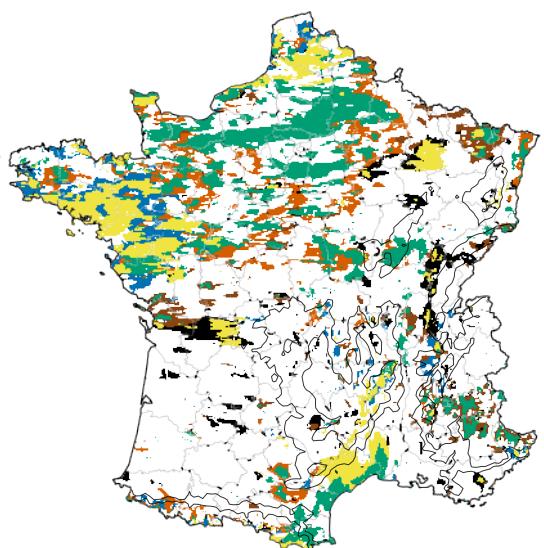
OCT



NOV



DEC

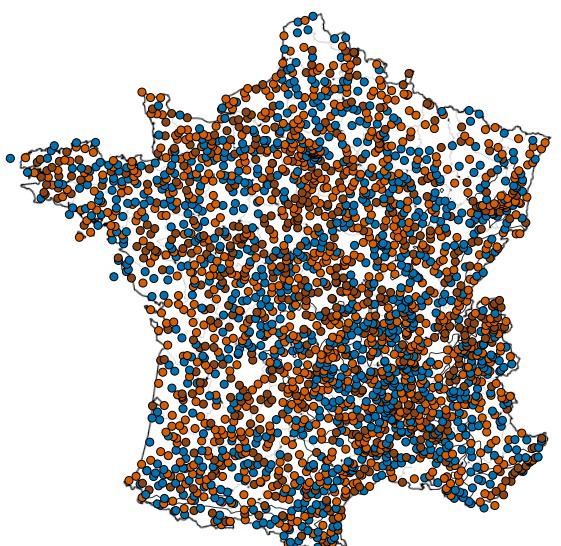
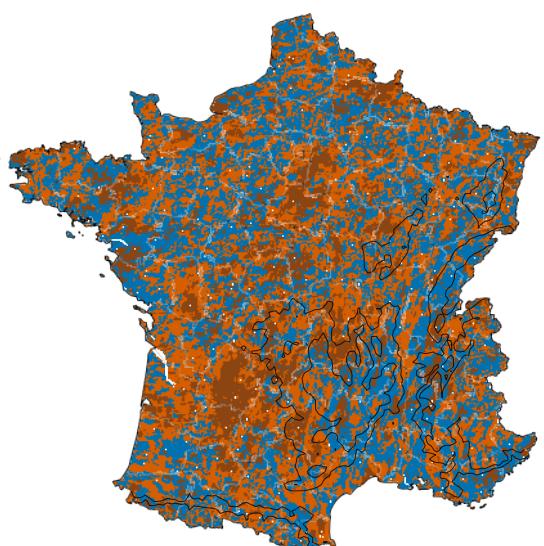


## 5.2 Données journalières (1990-2022)

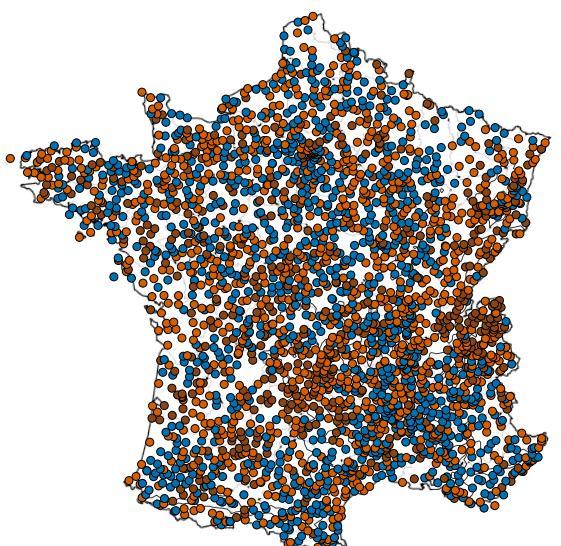
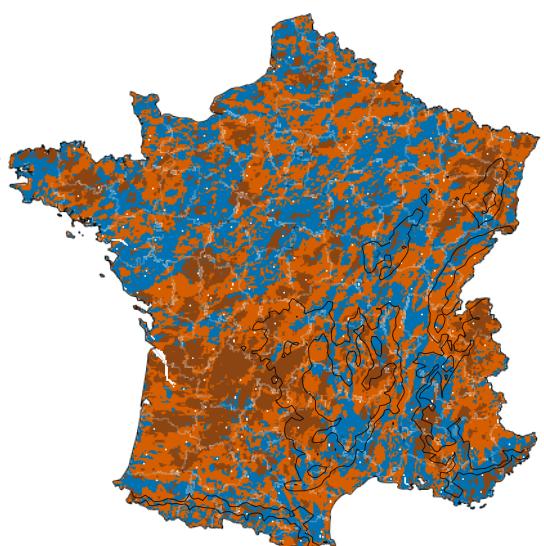
### 5.2.1 Par saison

#### 5.2.1.1 Toutes tendances

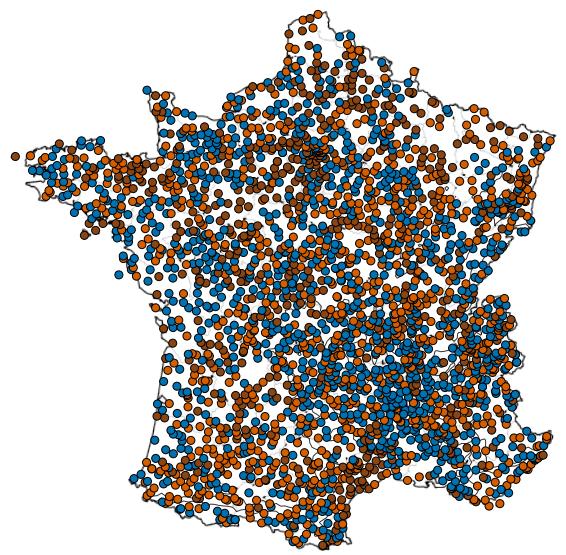
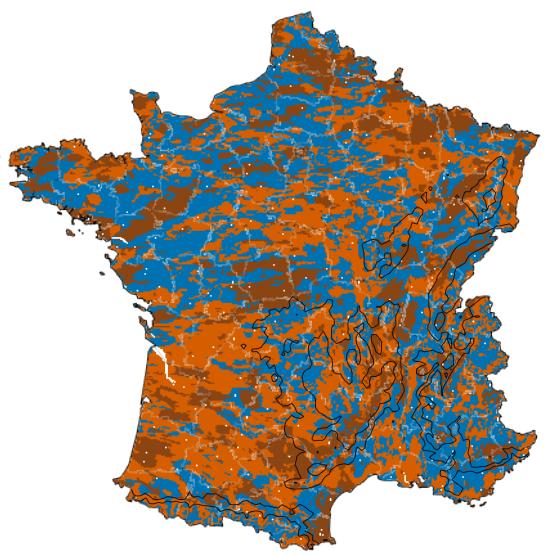
HYDRO



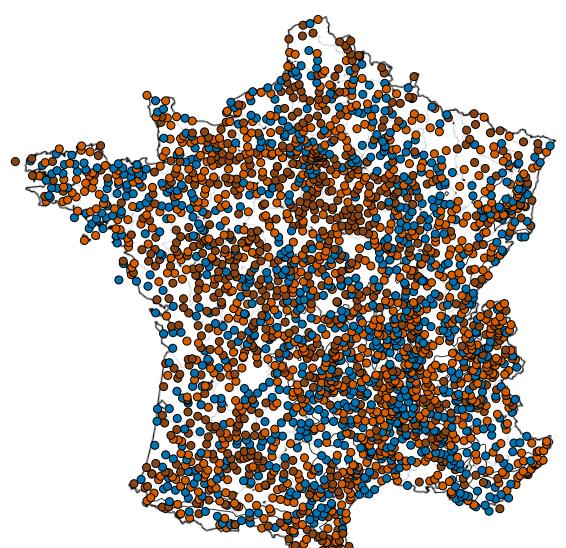
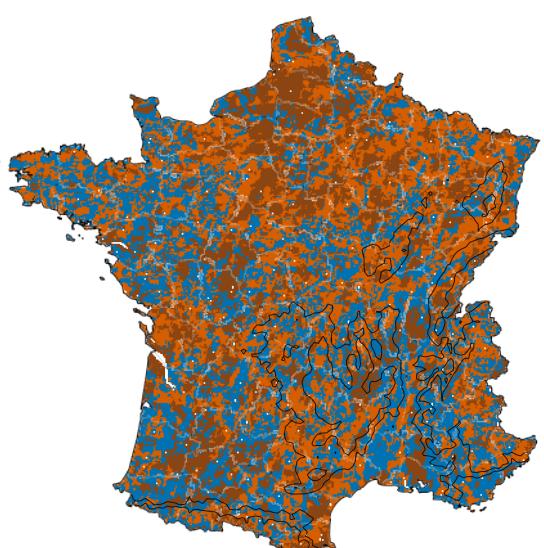
SON



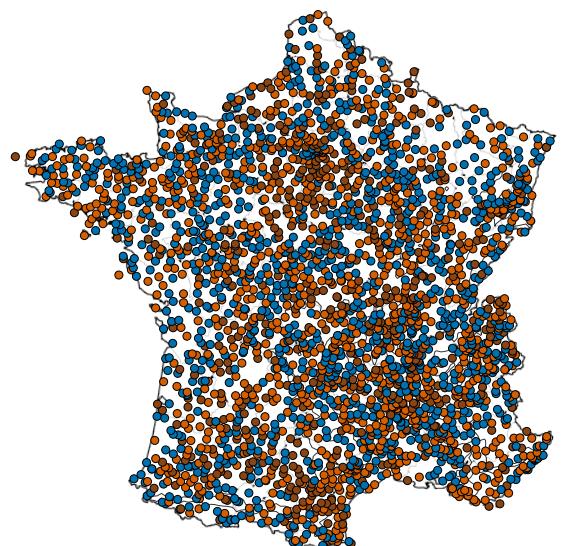
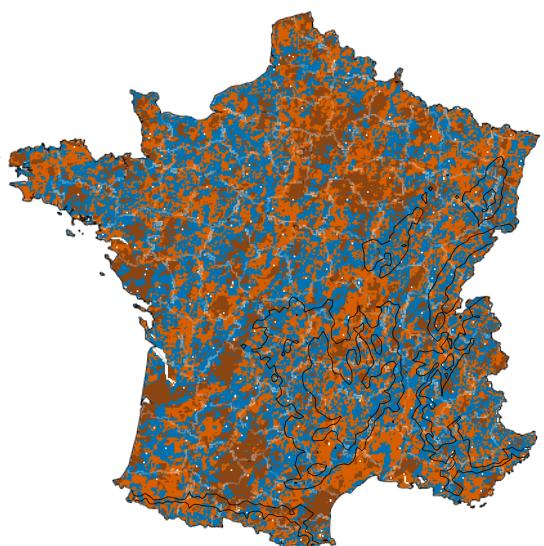
DJF



MAM

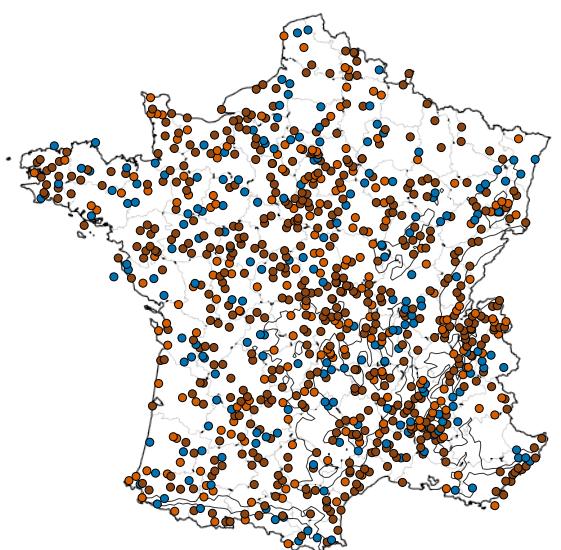
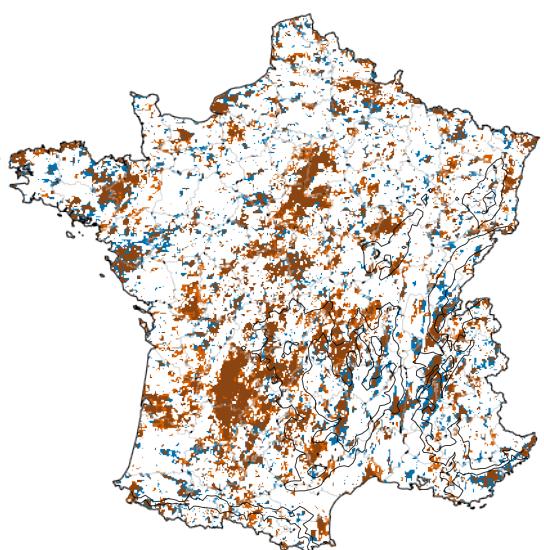


JJA

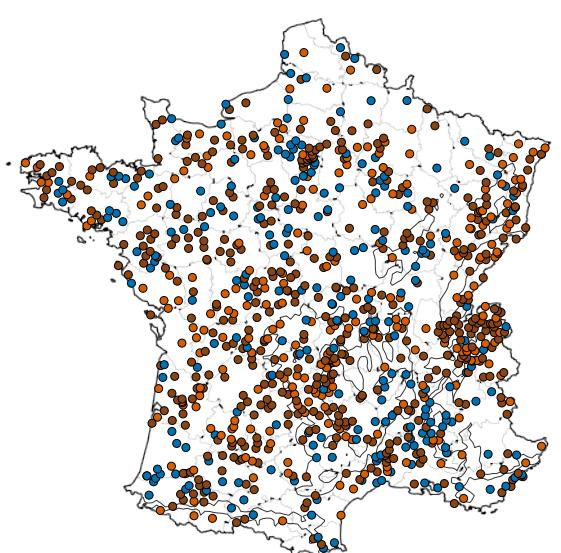
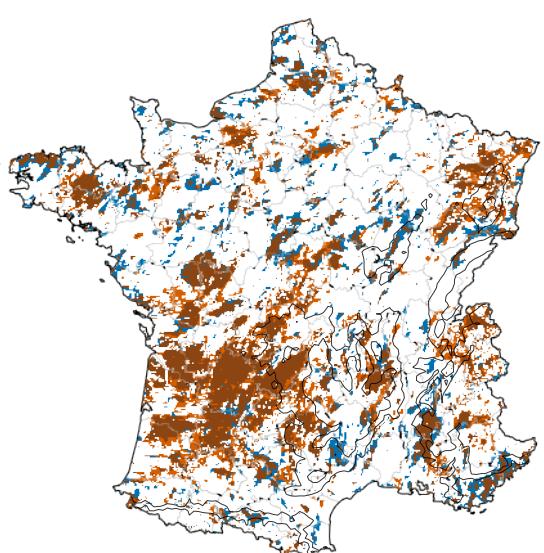


#### 5.2.1.2 Tendances significatives

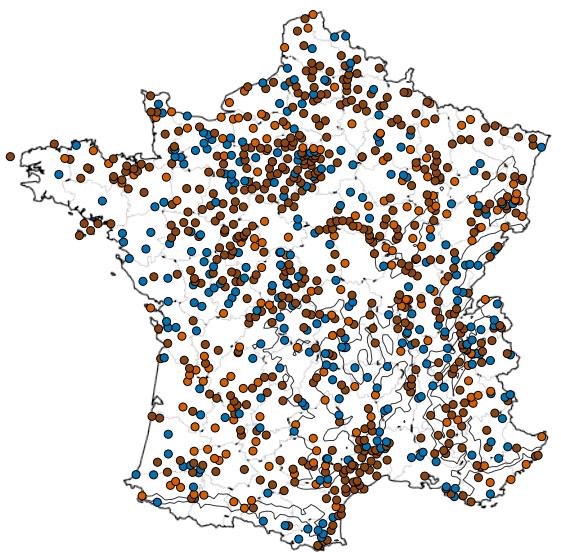
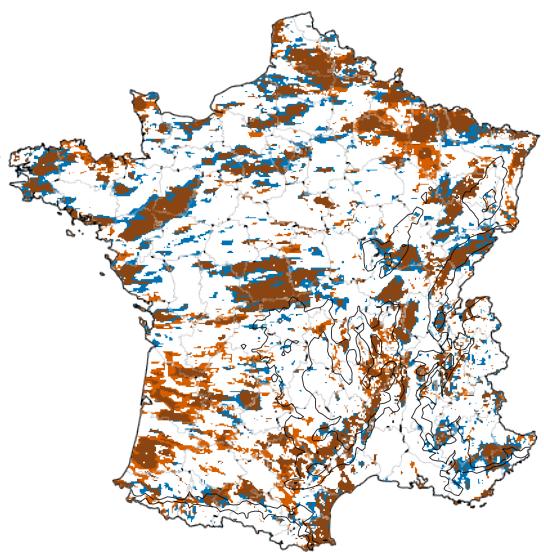
**HYDRO**



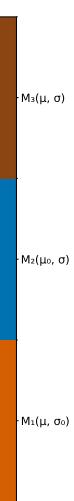
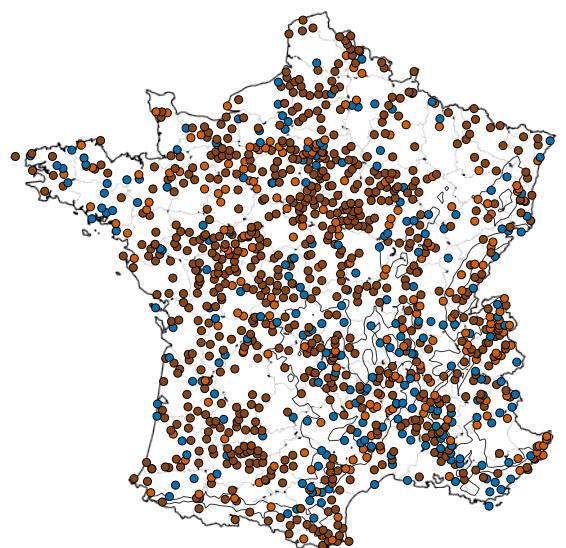
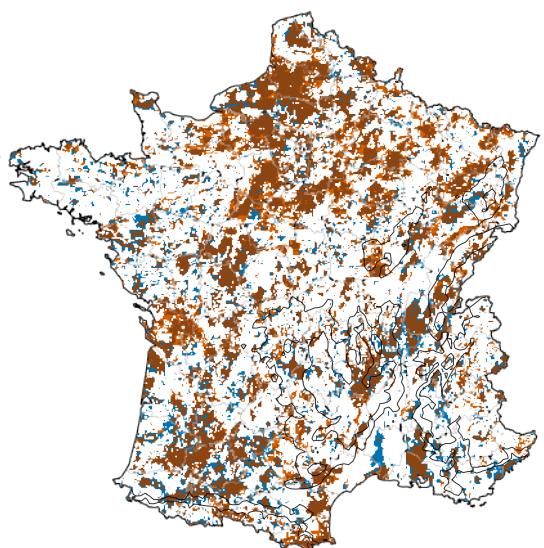
**SON**



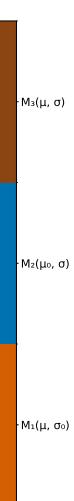
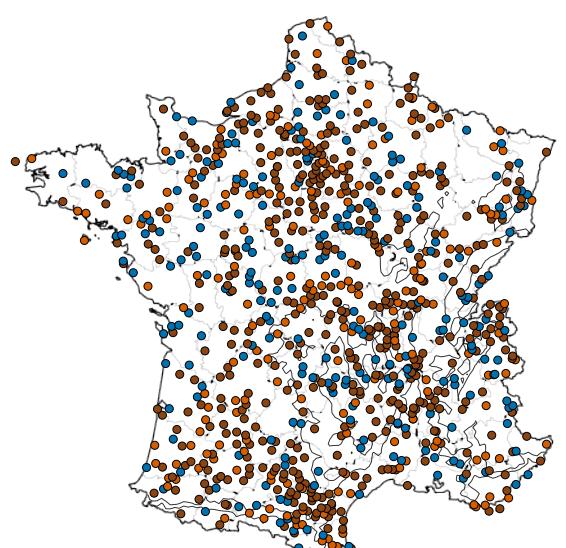
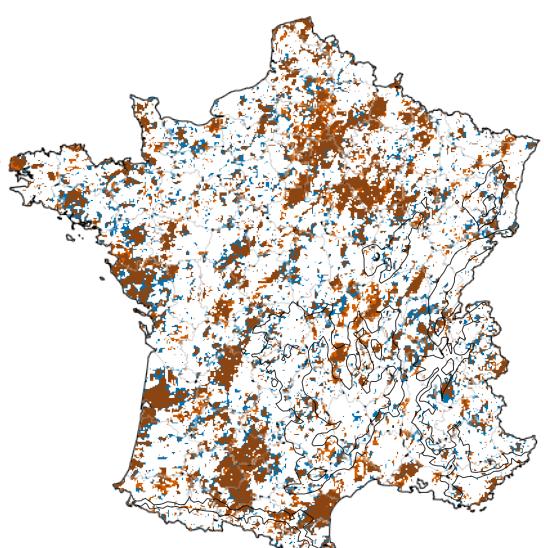
**DJF**



MAM



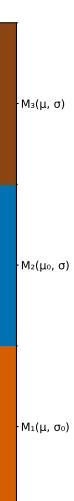
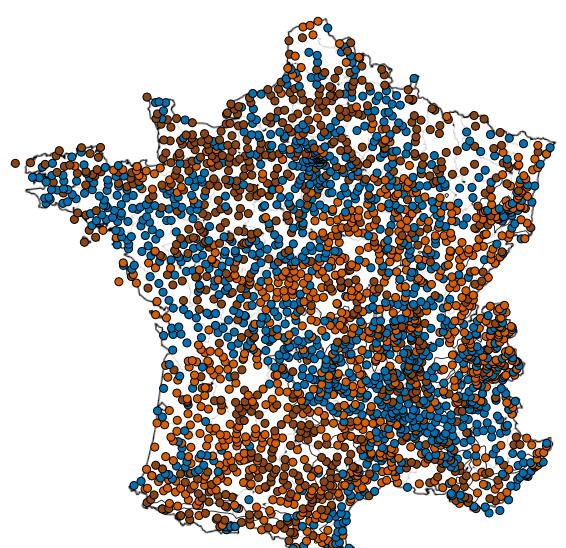
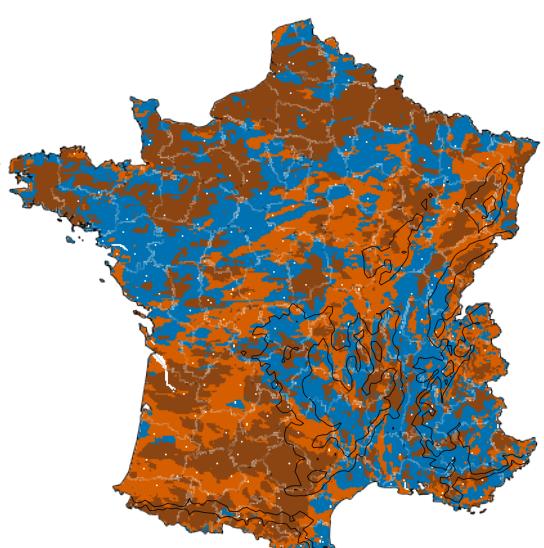
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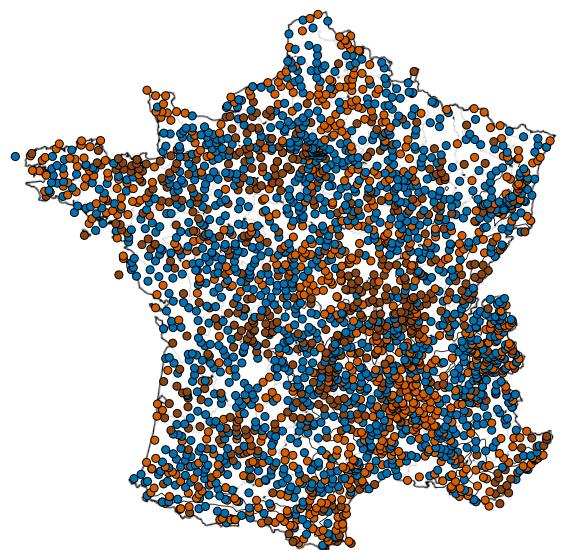
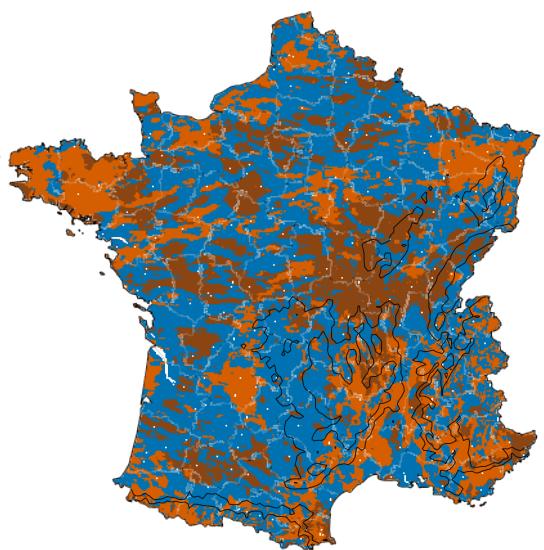
## 5.2.2 Par mois

### 5.2.2.1 Toutes tendances

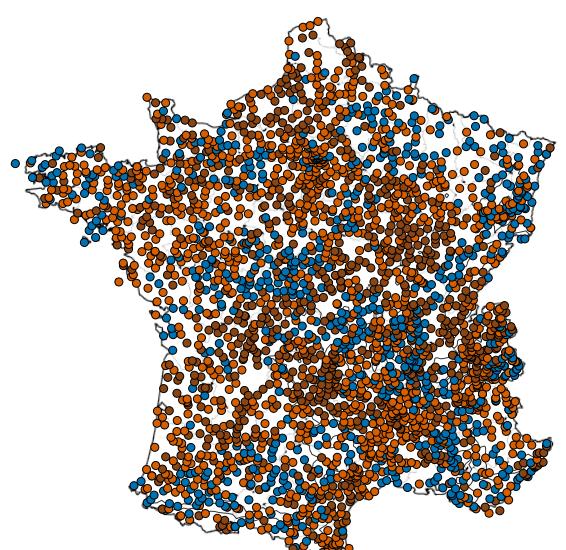
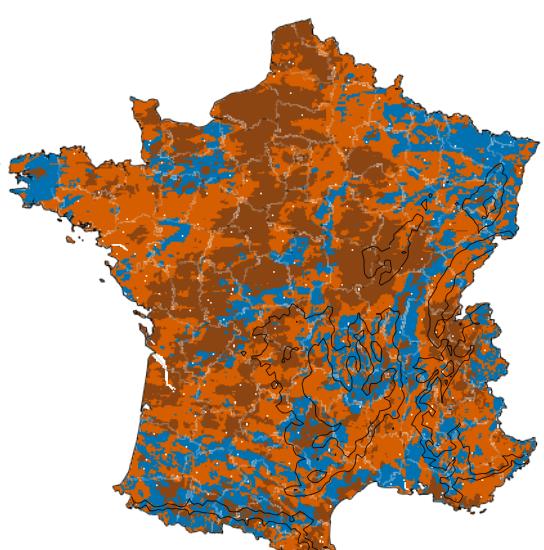
JAN



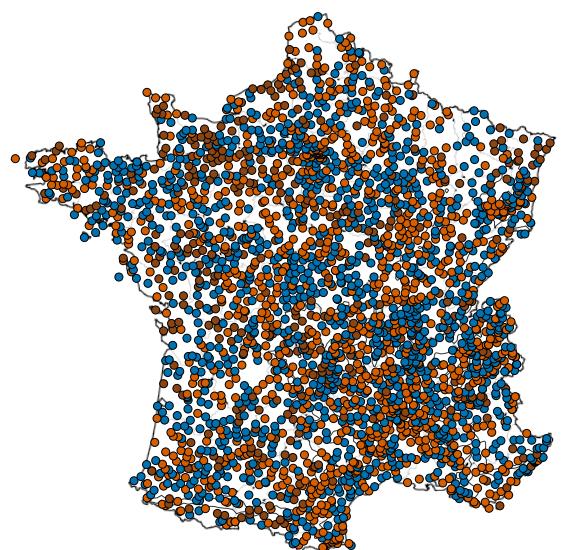
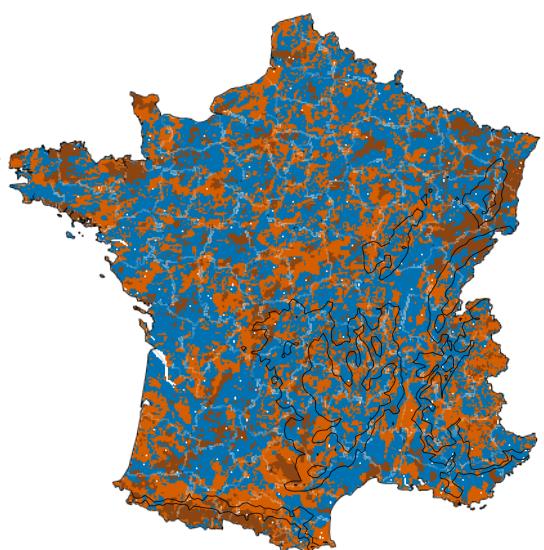
**FEV**



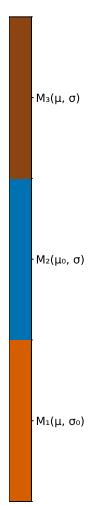
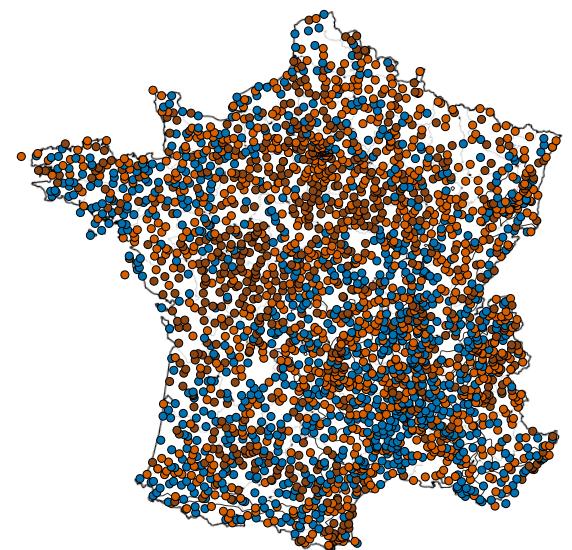
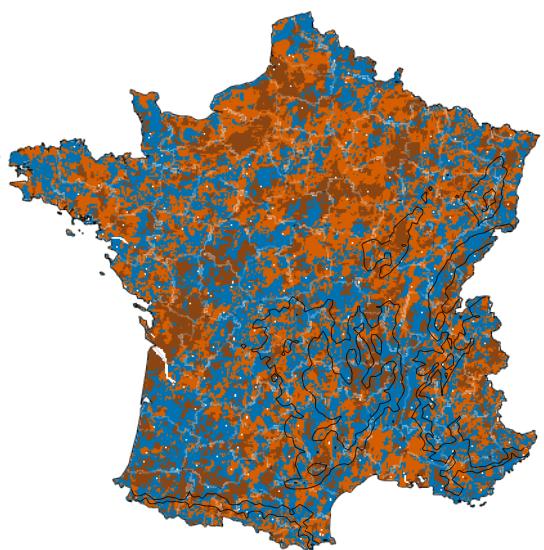
**MAR**



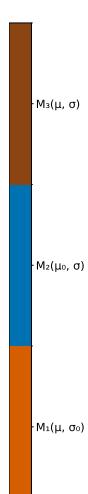
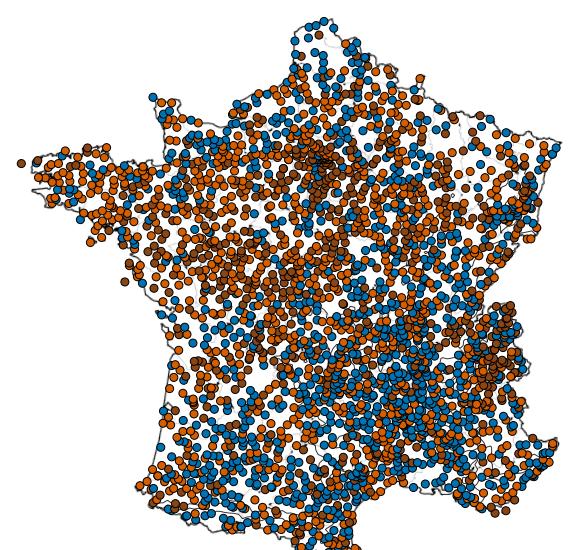
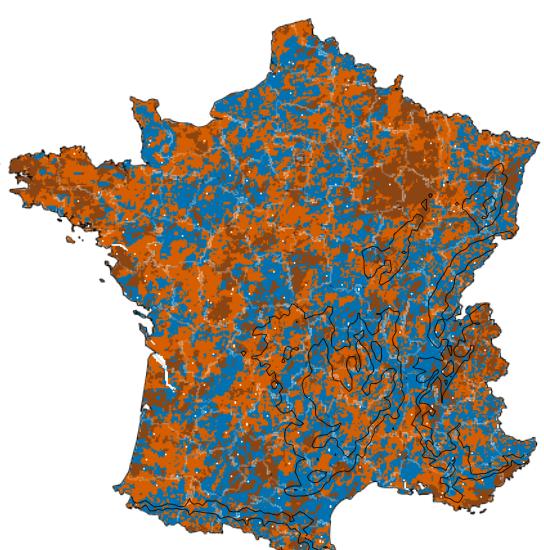
**AVR**



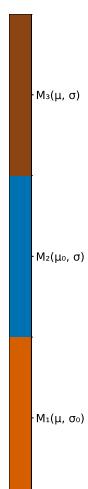
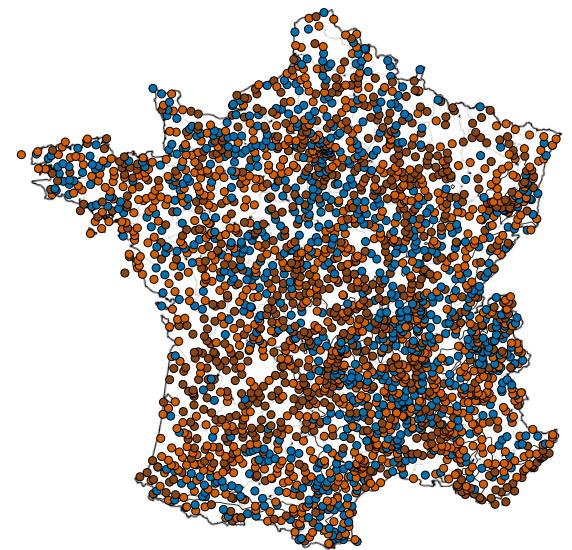
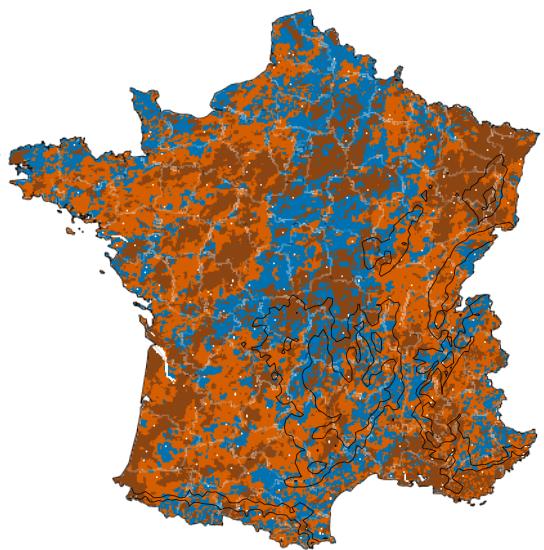
MAI



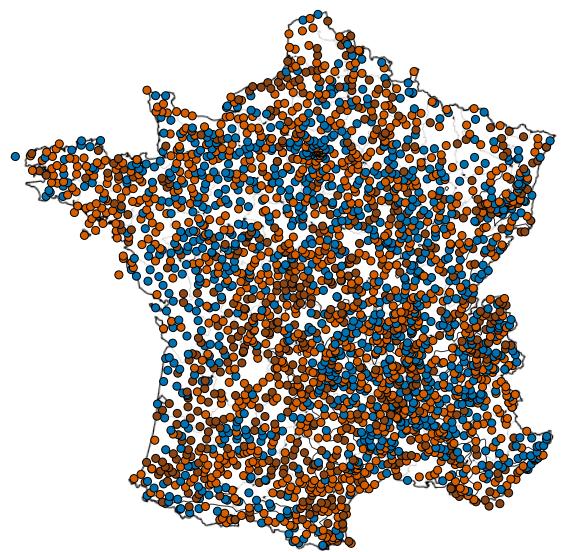
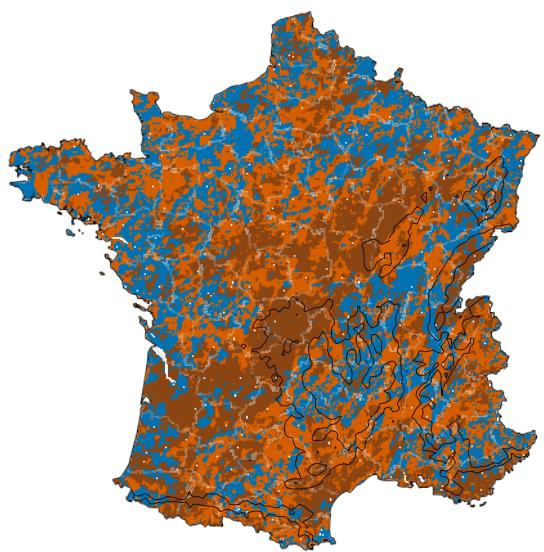
JUI



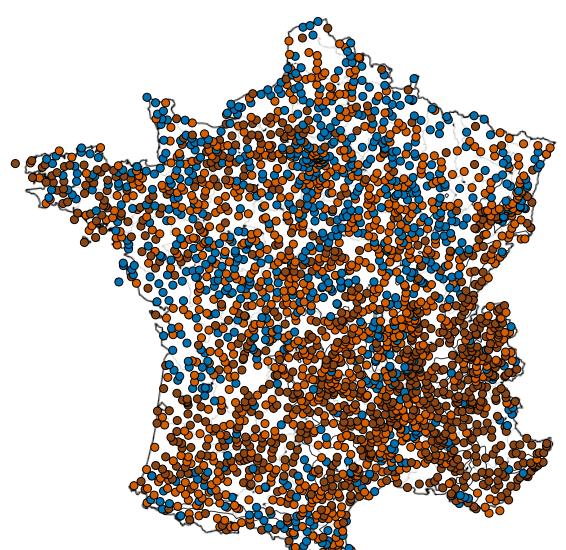
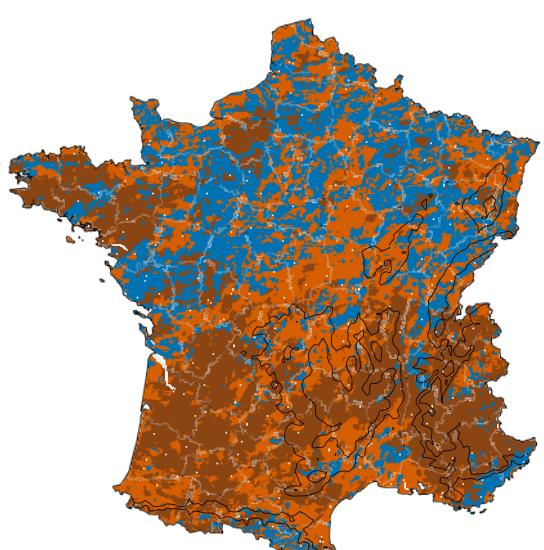
JUILL



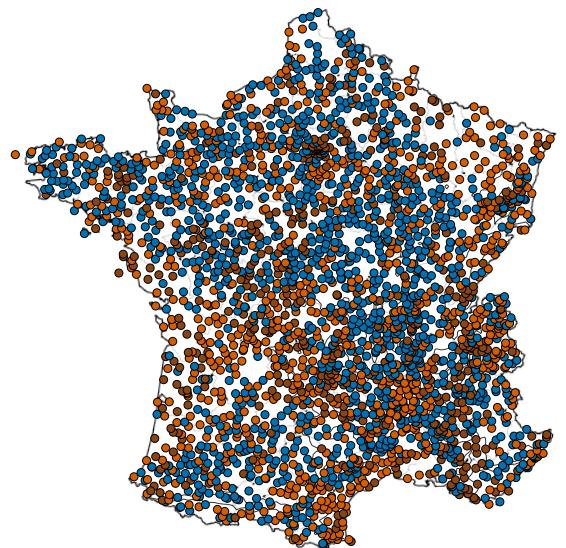
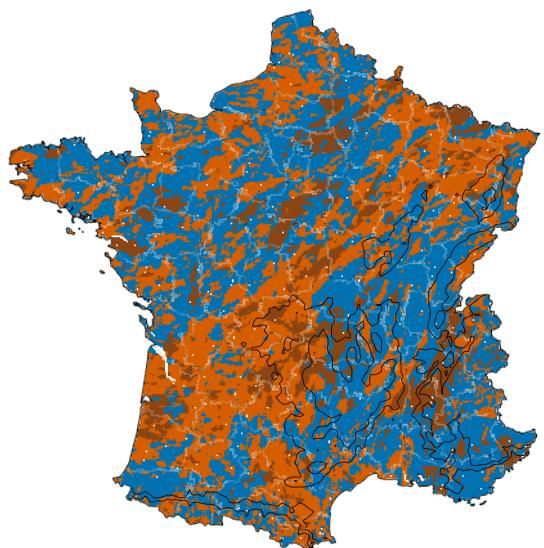
**AOU**



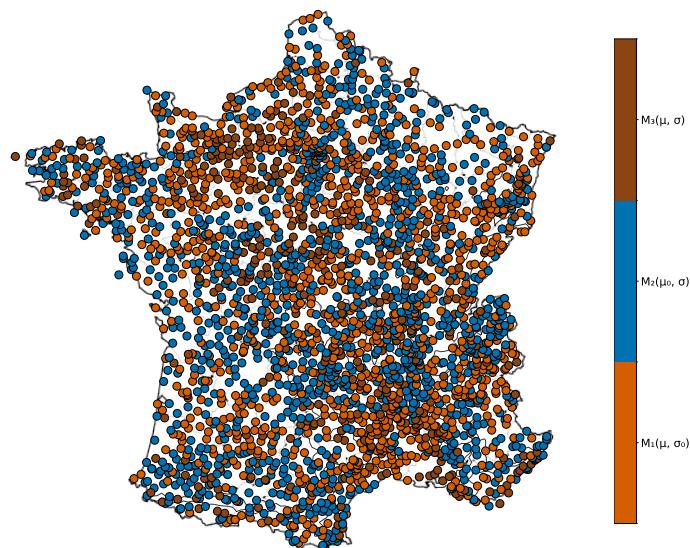
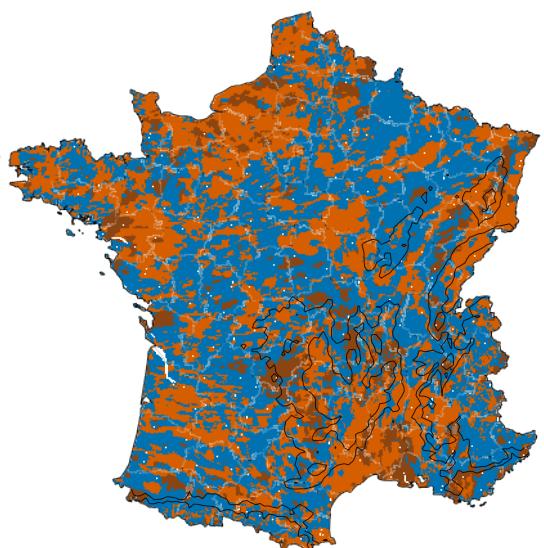
**SEP**



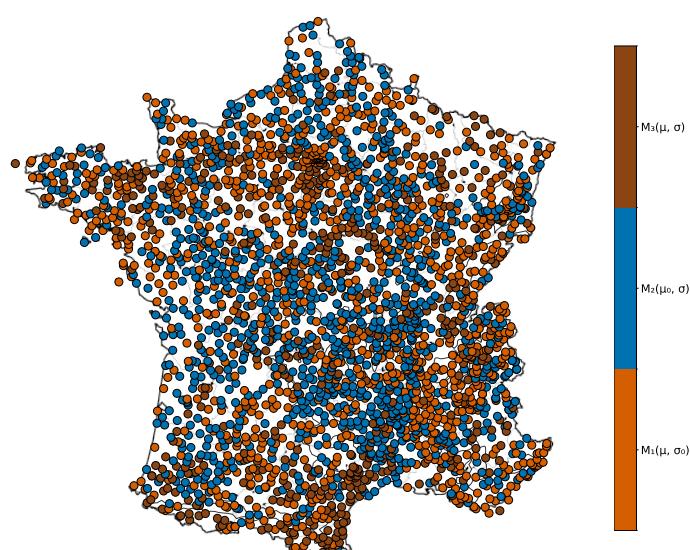
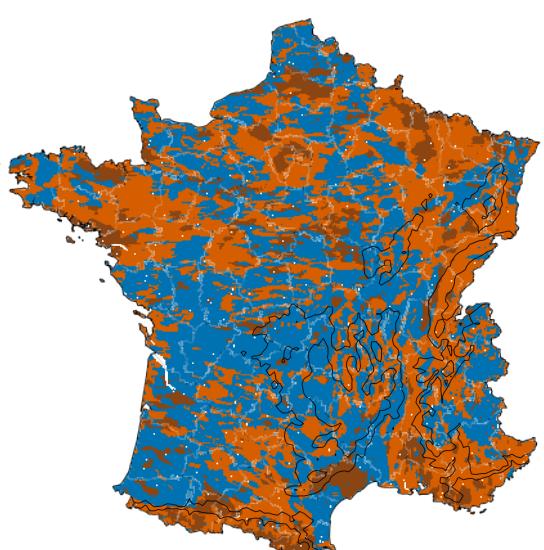
**OCT**



NOV

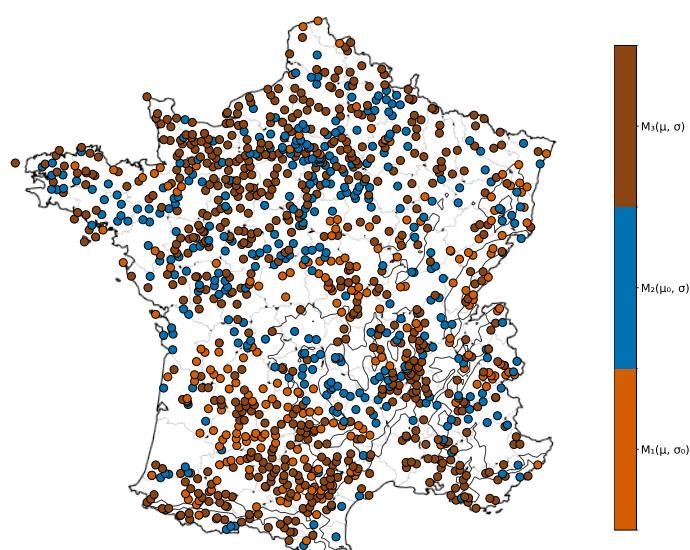
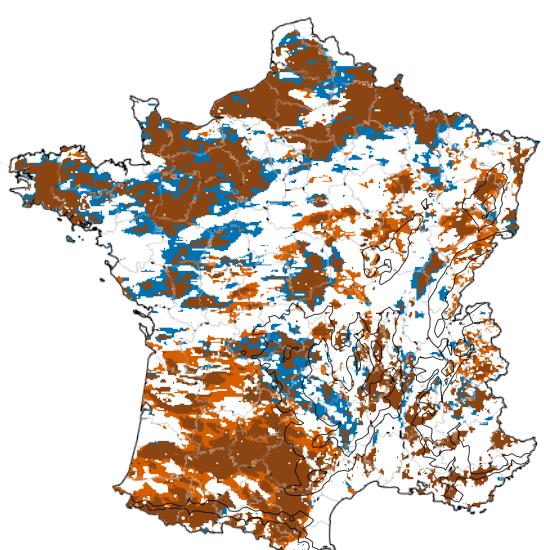


DEC

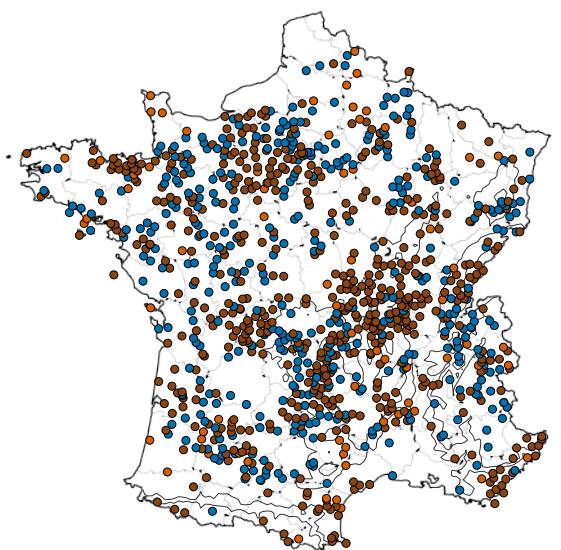
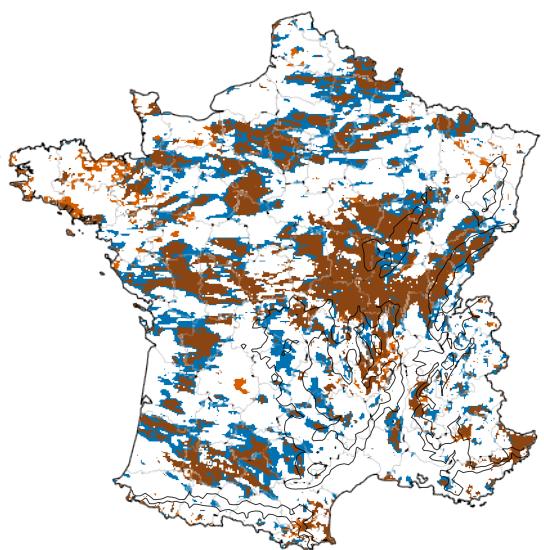


#### 5.2.2.2 Tendances significatives

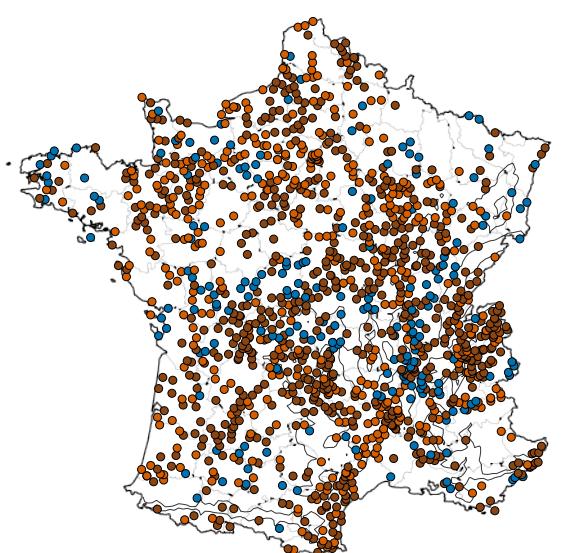
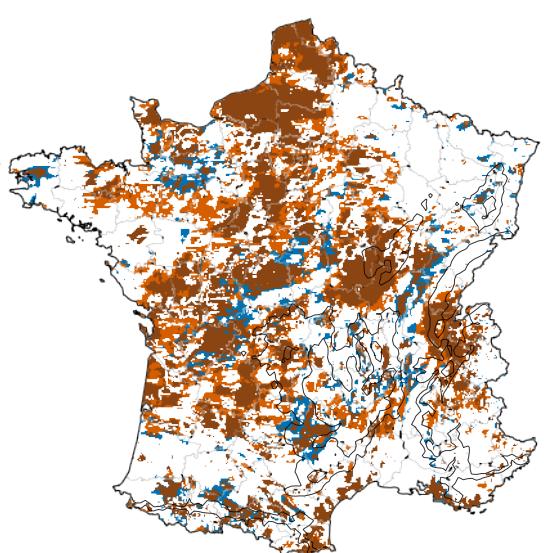
JAN



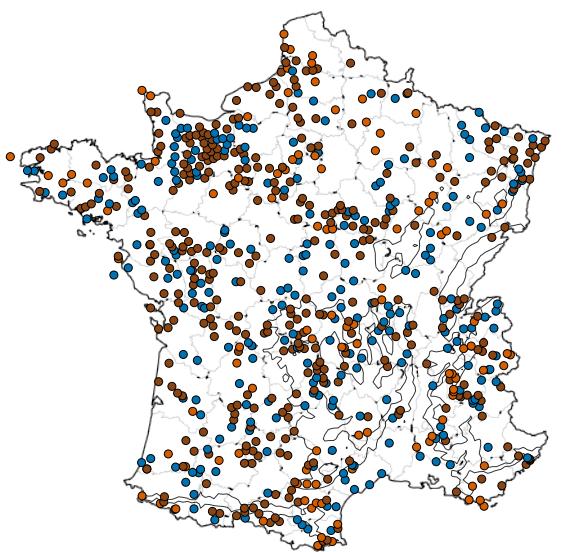
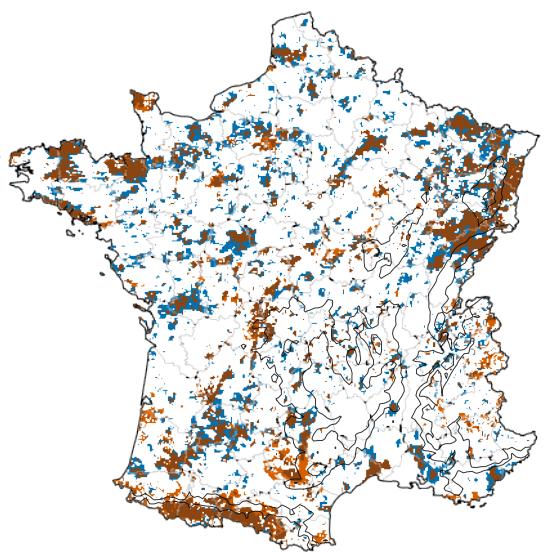
**FEV**



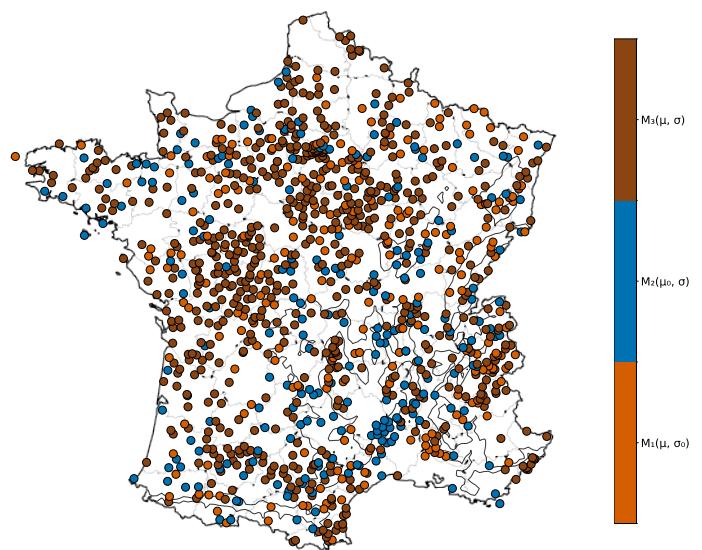
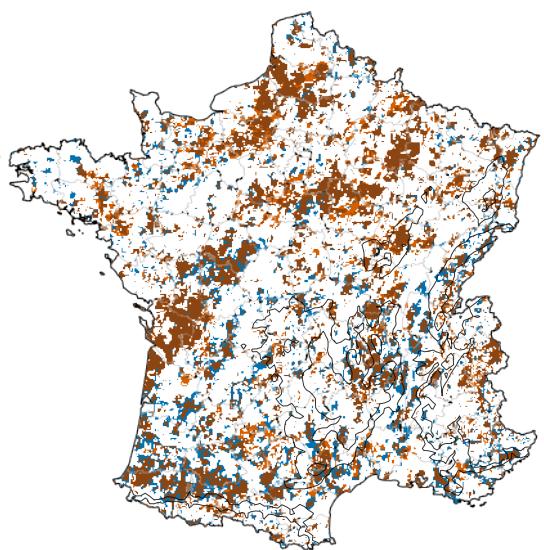
**MAR**



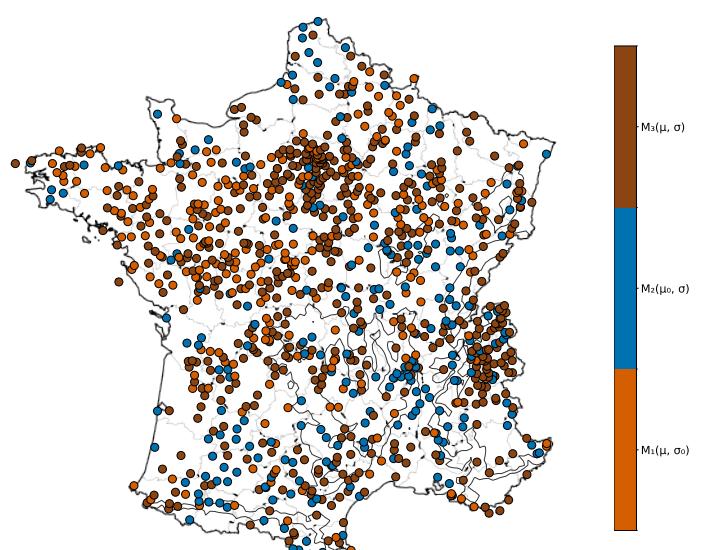
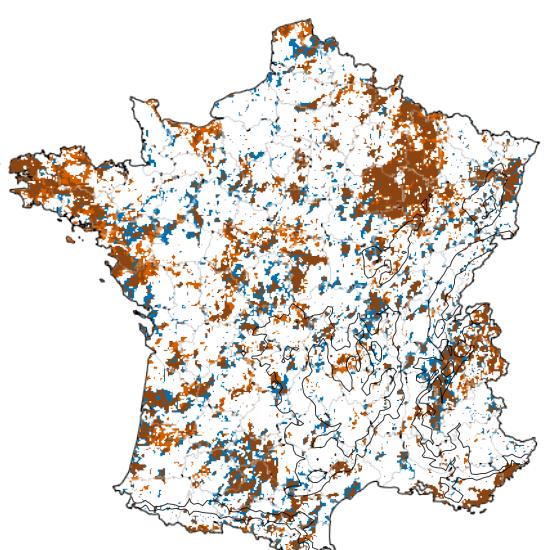
**AVR**



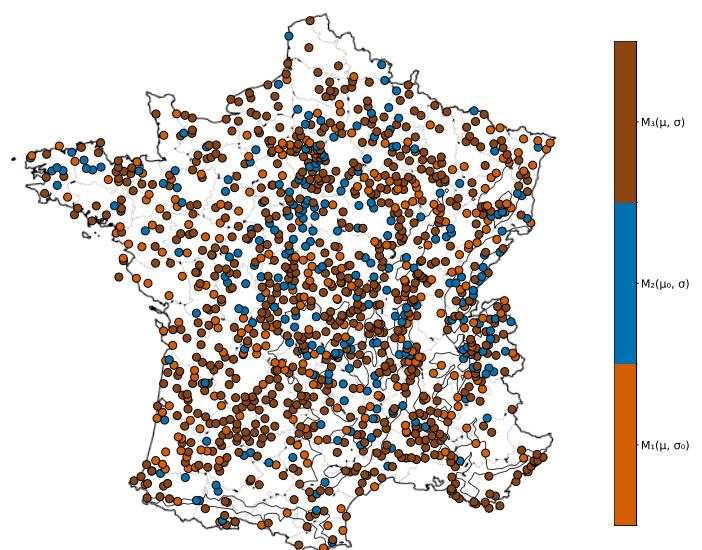
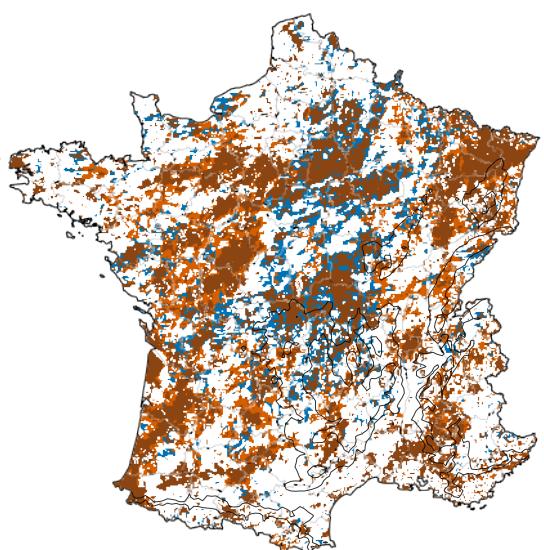
MAI



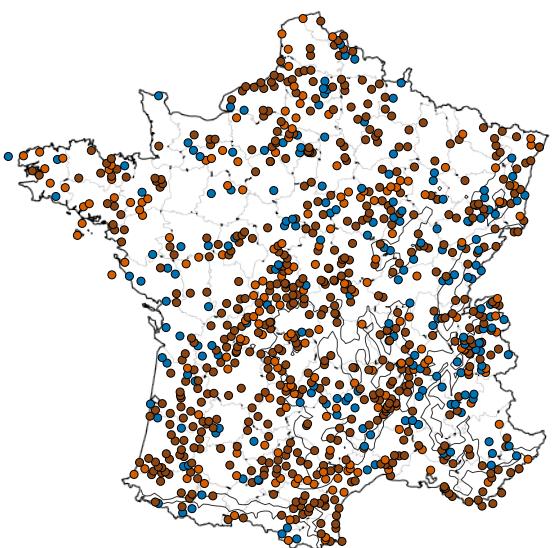
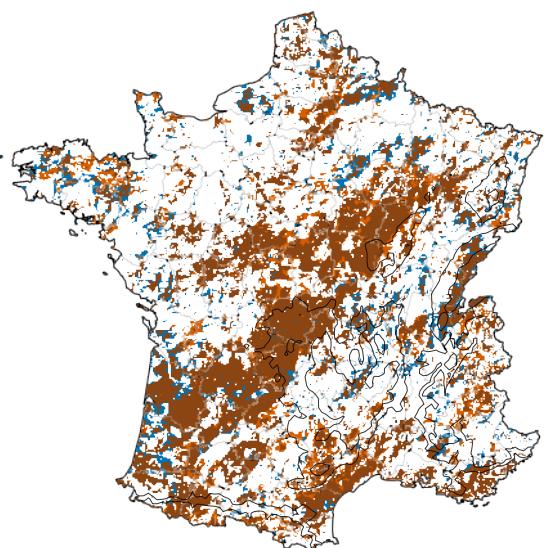
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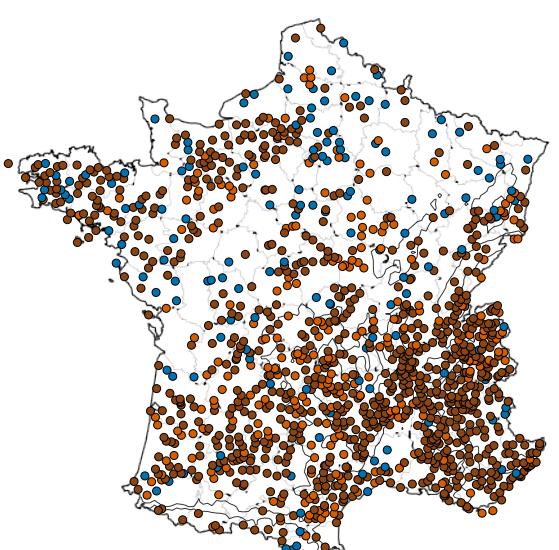
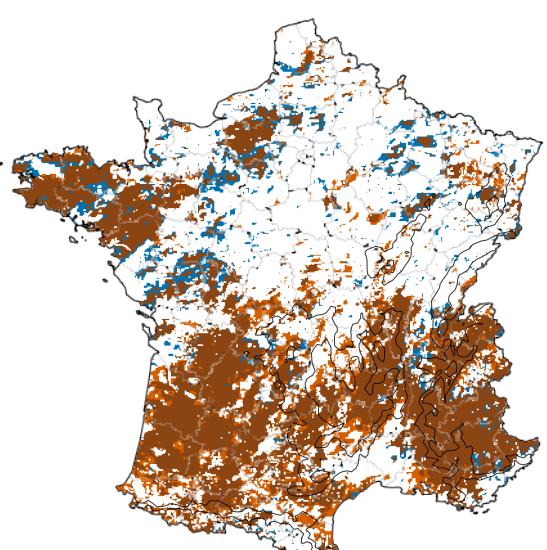
JUILL



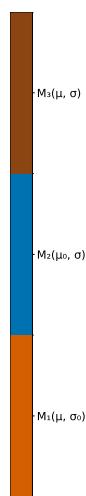
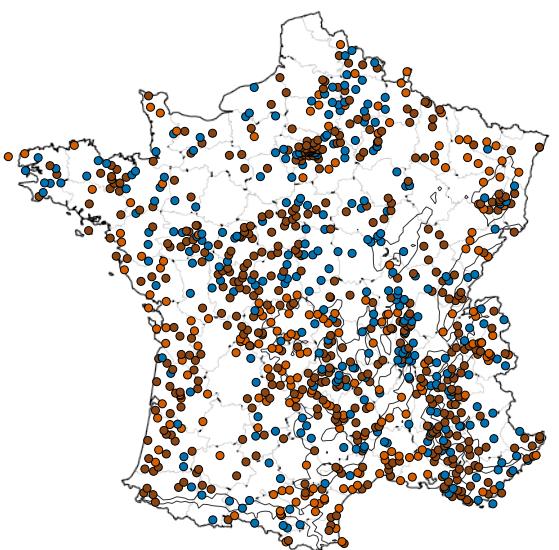
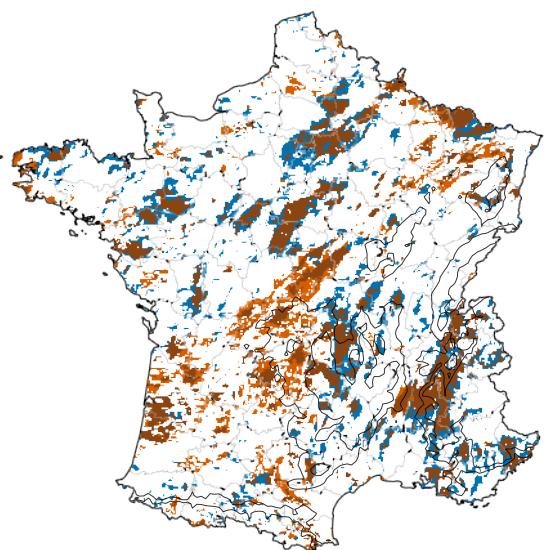
**AOU**



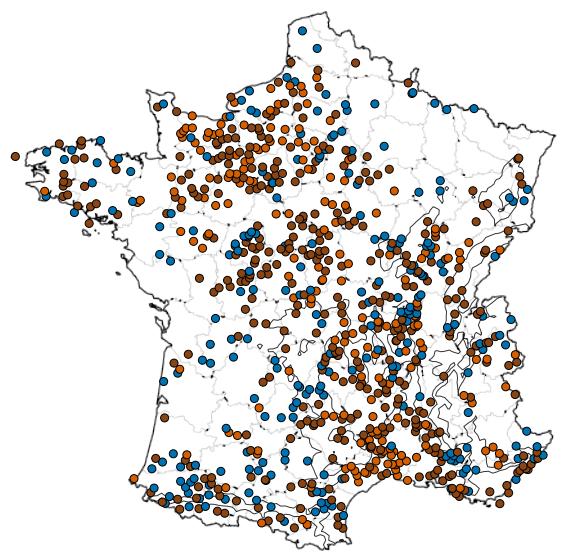
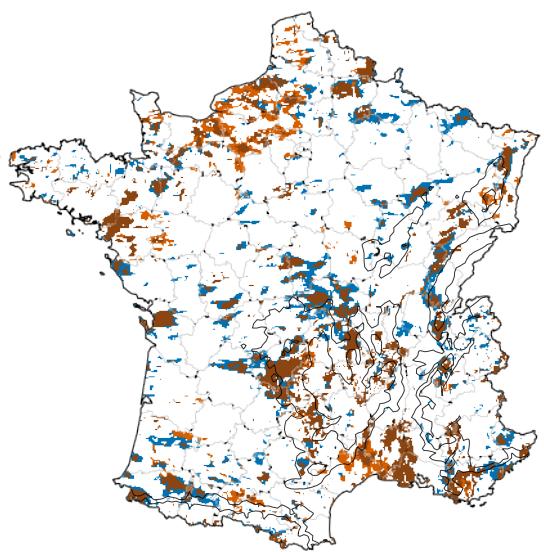
**SEP**



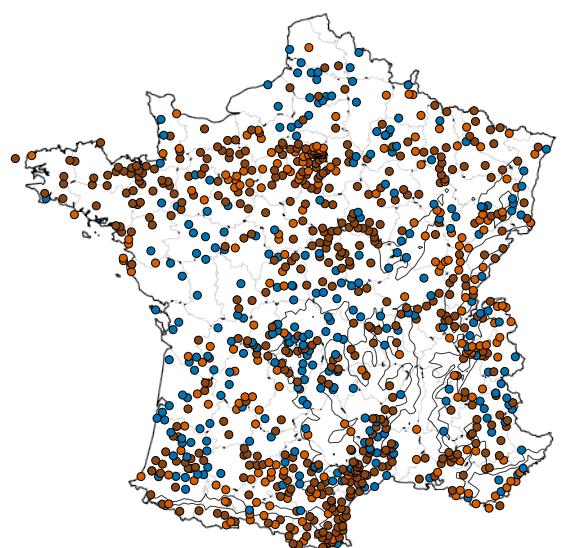
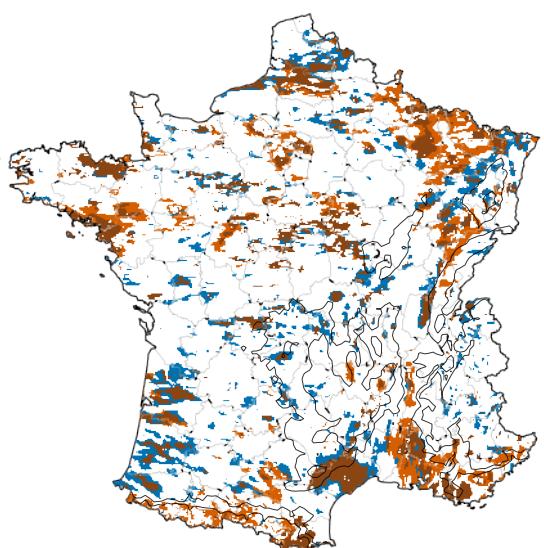
**OCT**



NOV



DEC

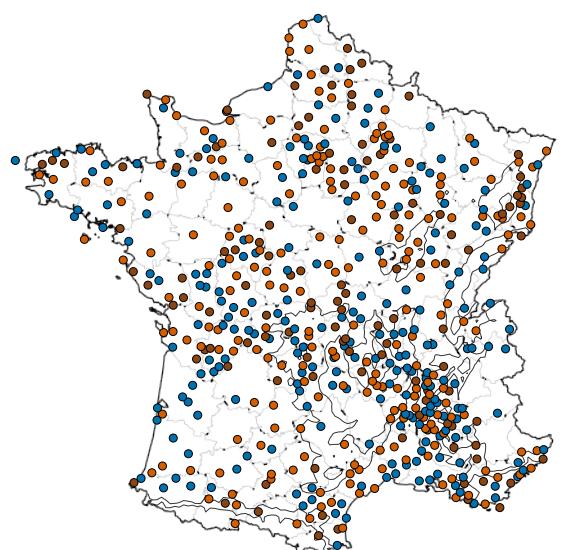
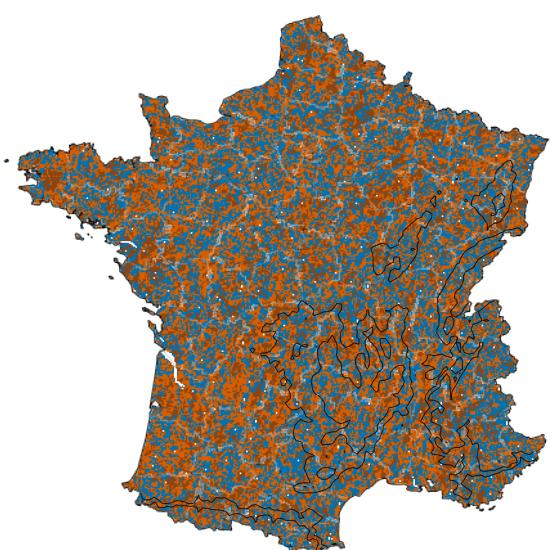


## 5.3 Données horaire (1990-2022)

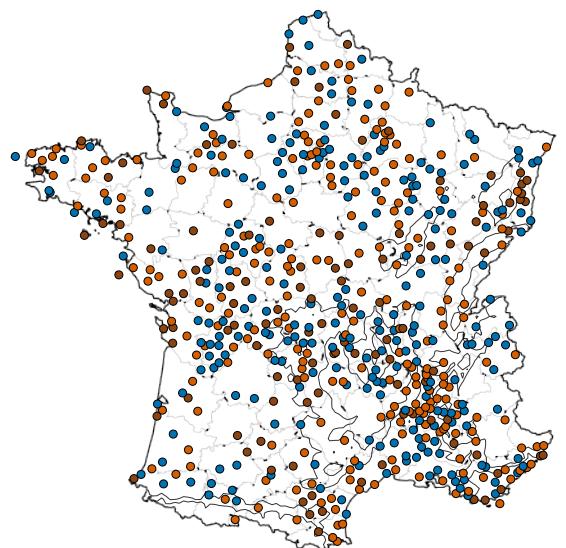
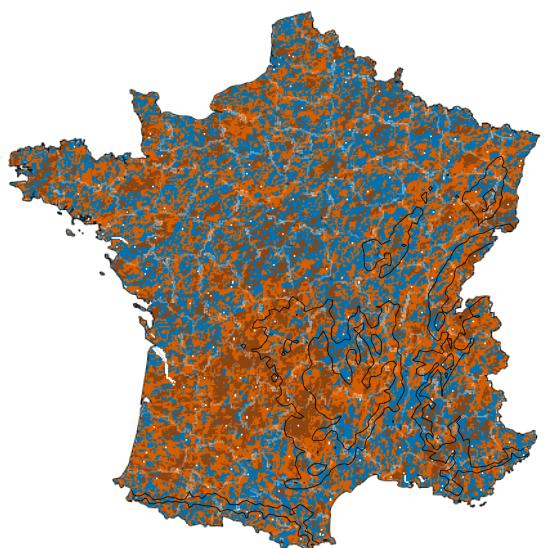
### 5.3.1 Par saison

#### 5.3.1.1 Toutes tendances

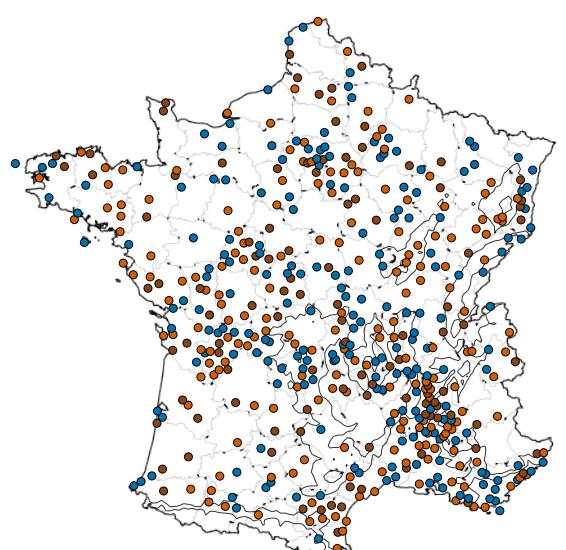
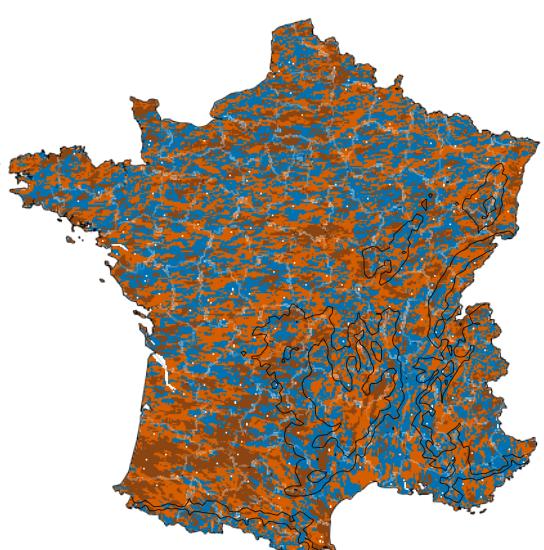
HYDRO



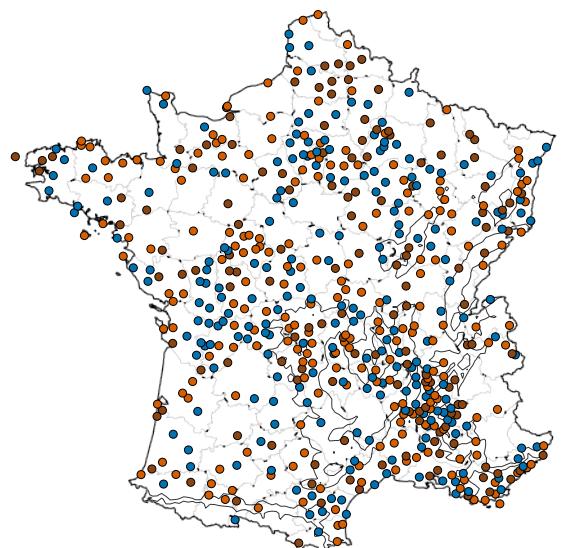
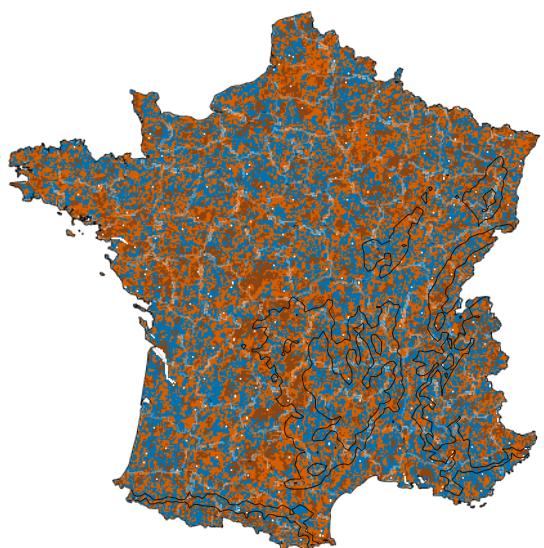
**SON**



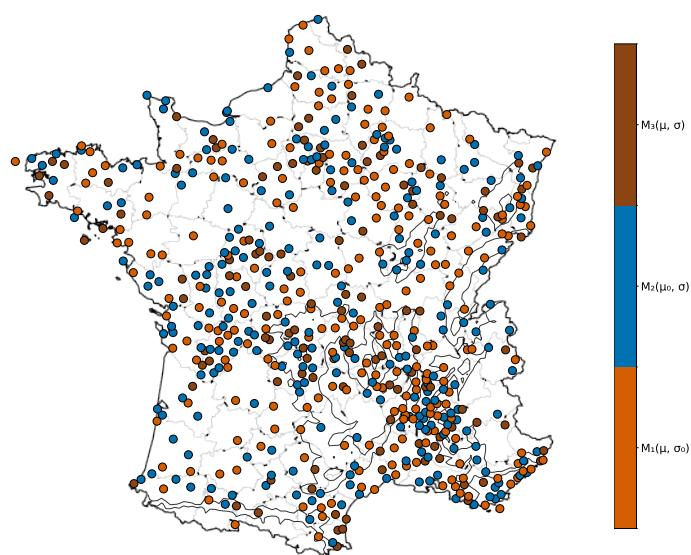
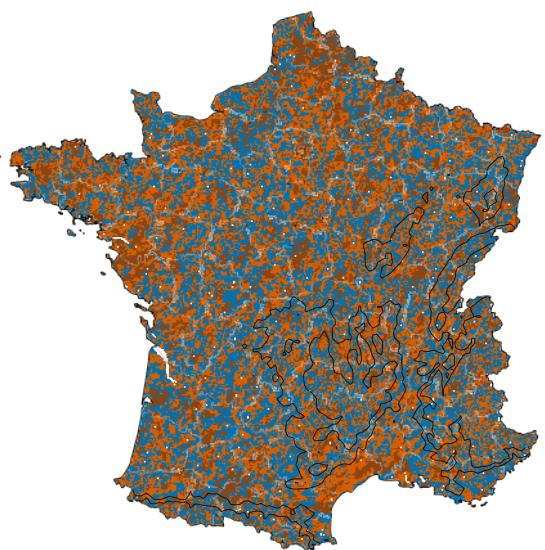
**DJF**



**MAM**

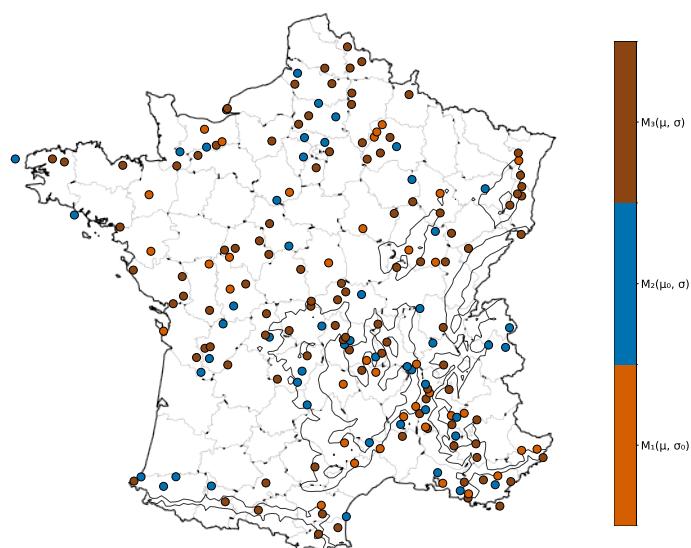
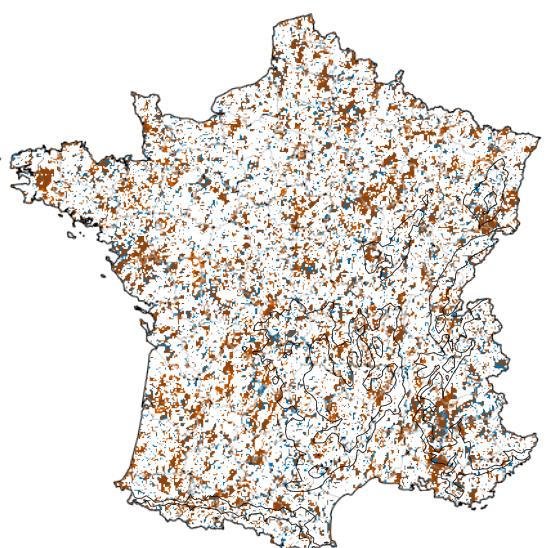


JJA

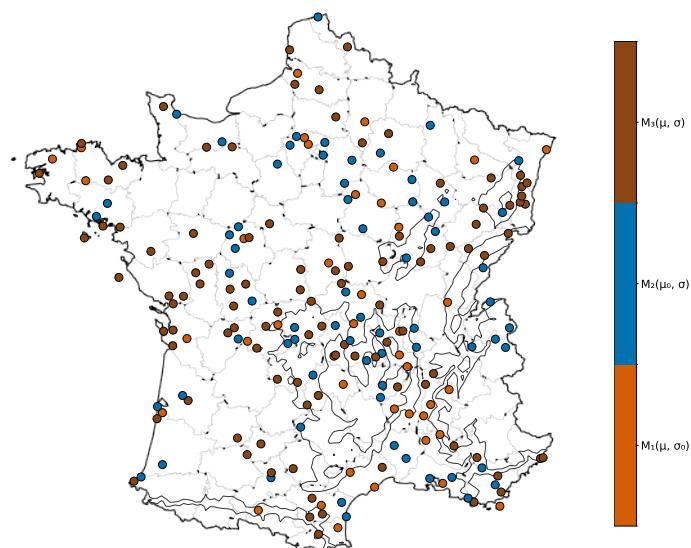
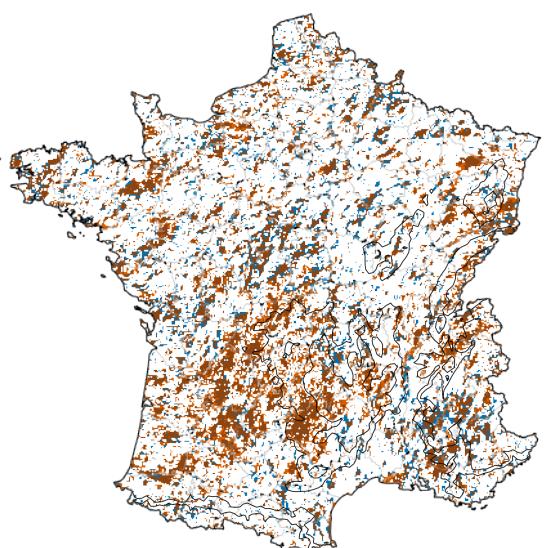


### 5.3.1.2 Tendances significatives

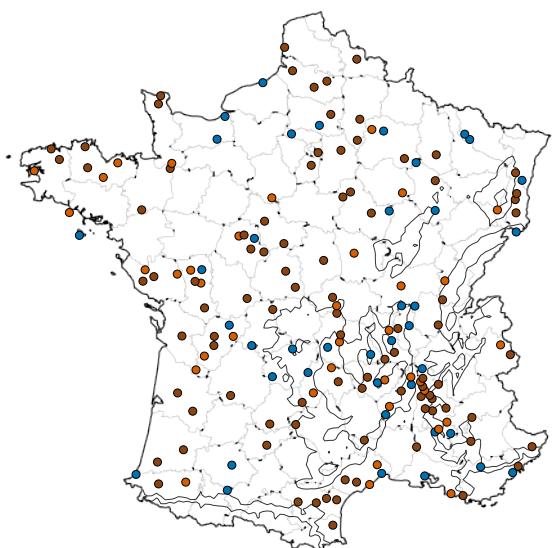
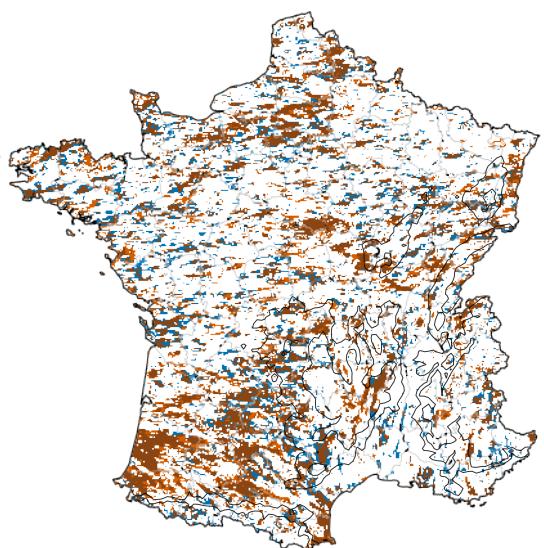
HYDRO



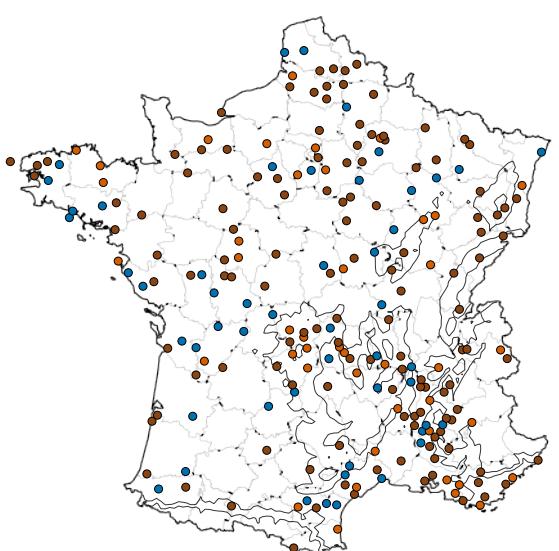
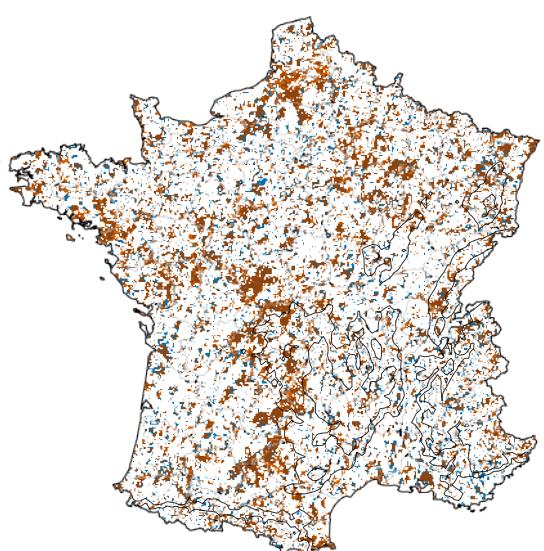
SON



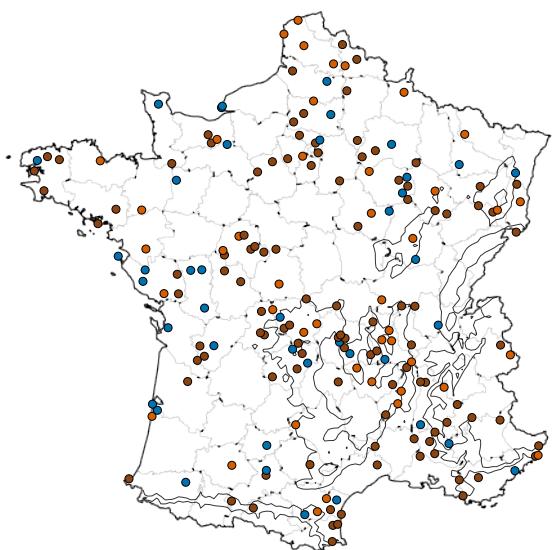
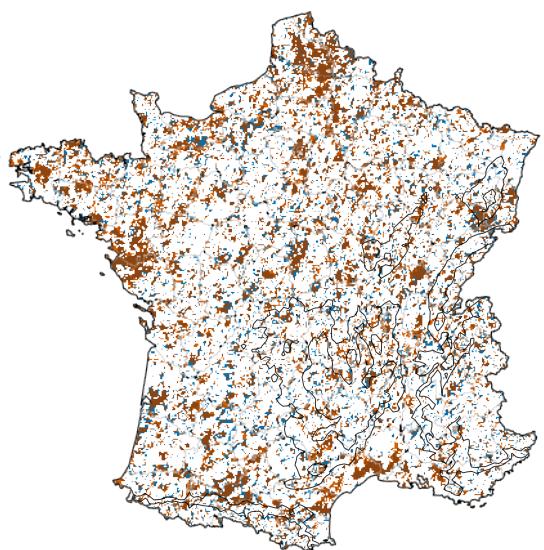
DJF



MAM



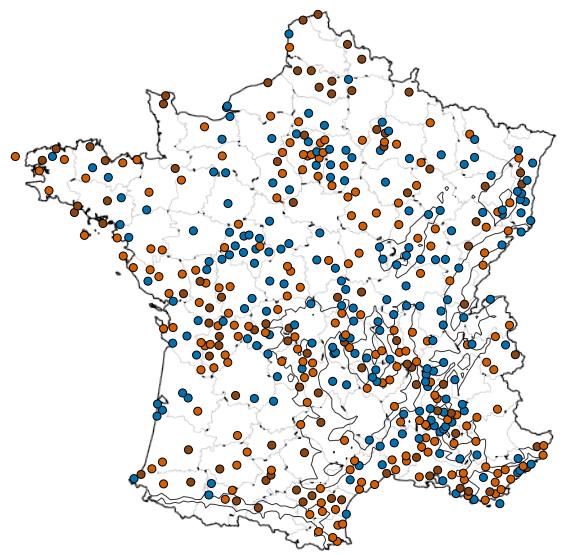
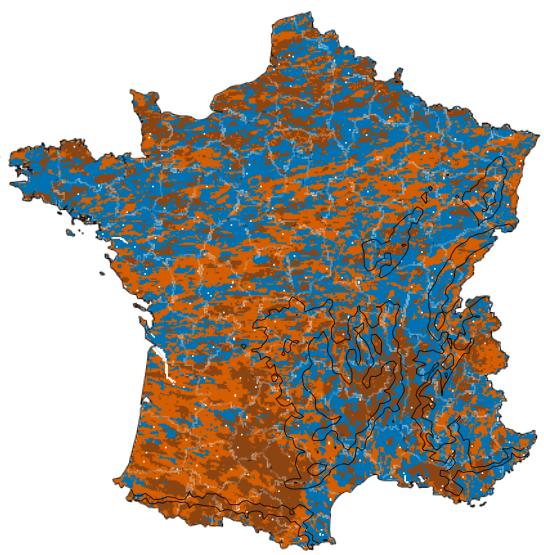
JJA



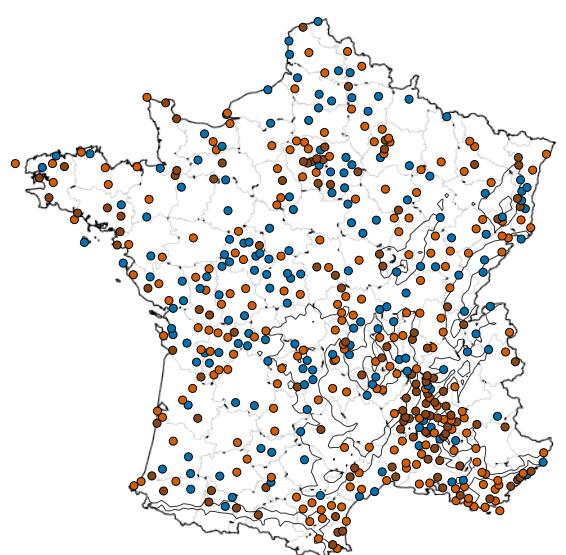
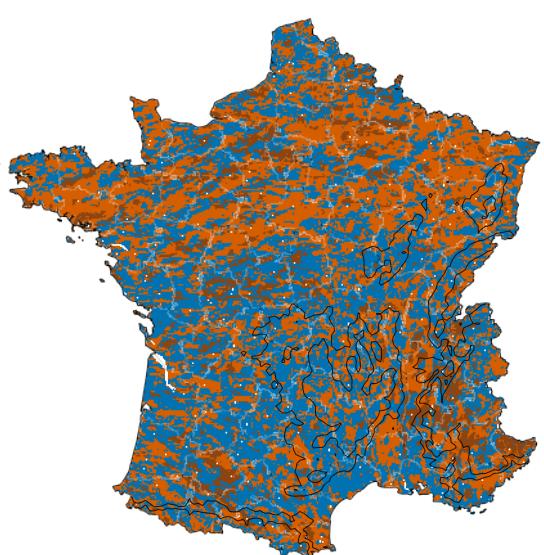
### 5.3.2 Par mois

#### 5.3.2.1 Toutes tendances

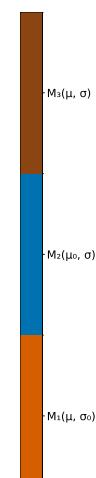
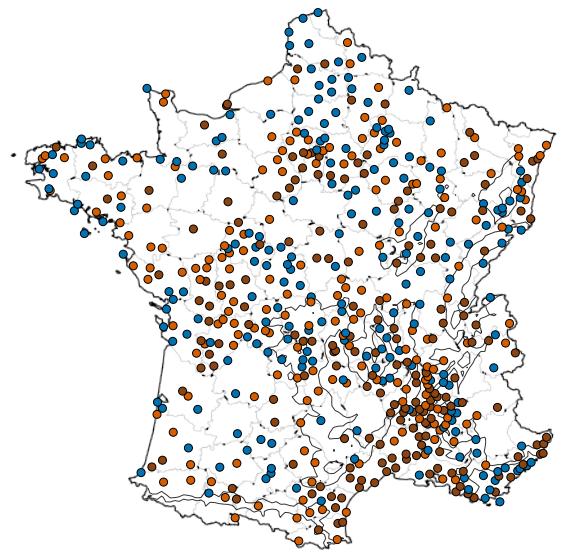
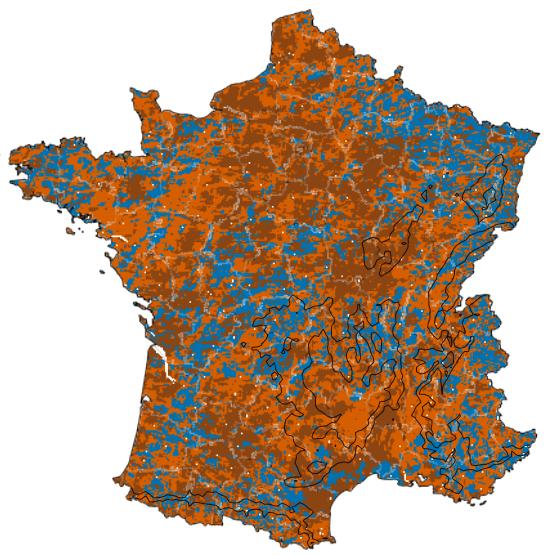
JAN



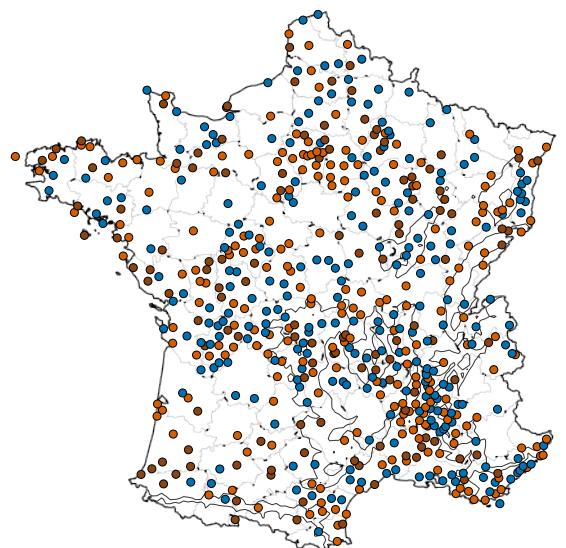
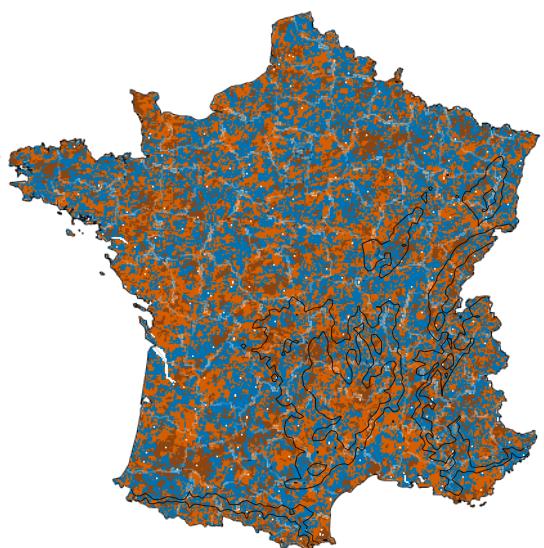
FEV



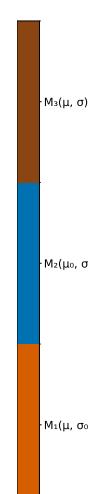
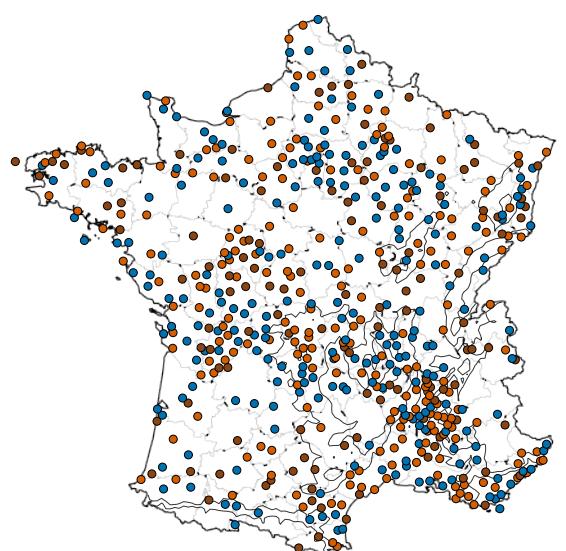
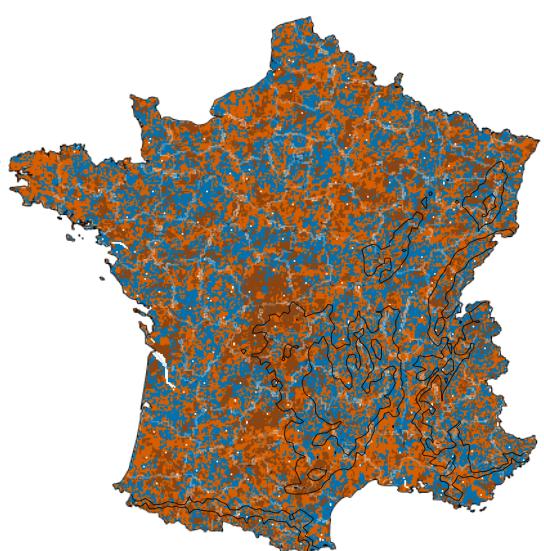
MAR



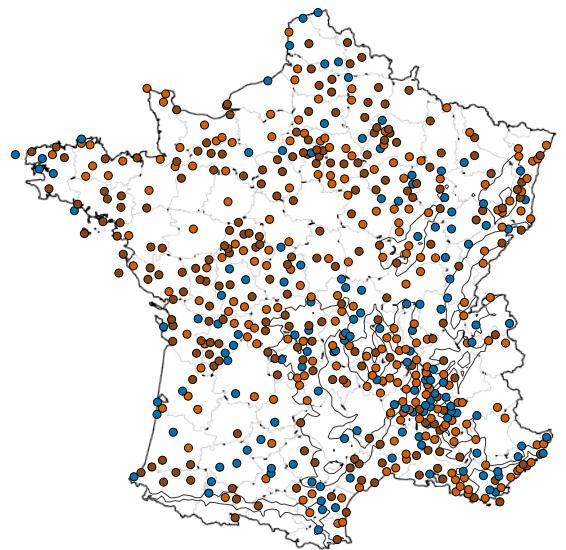
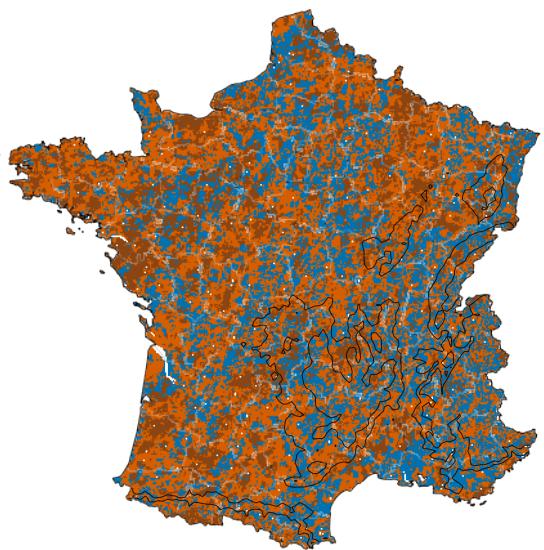
AVR



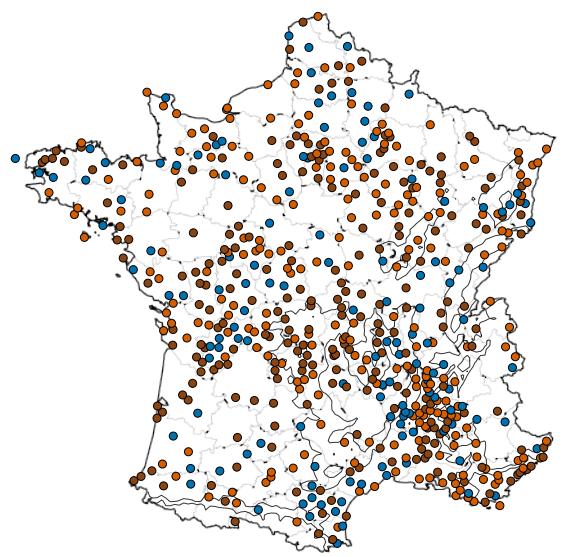
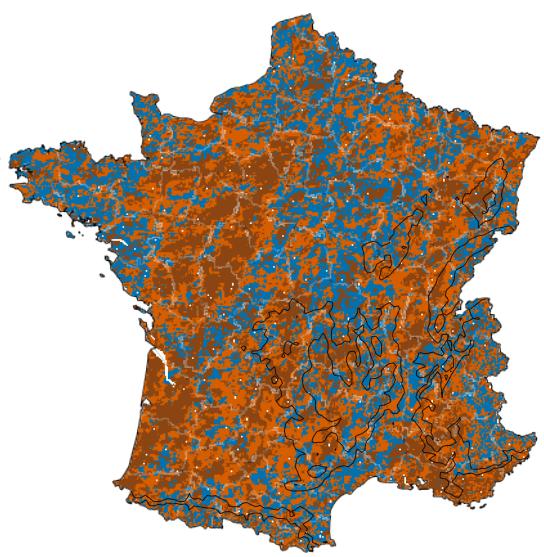
MAI



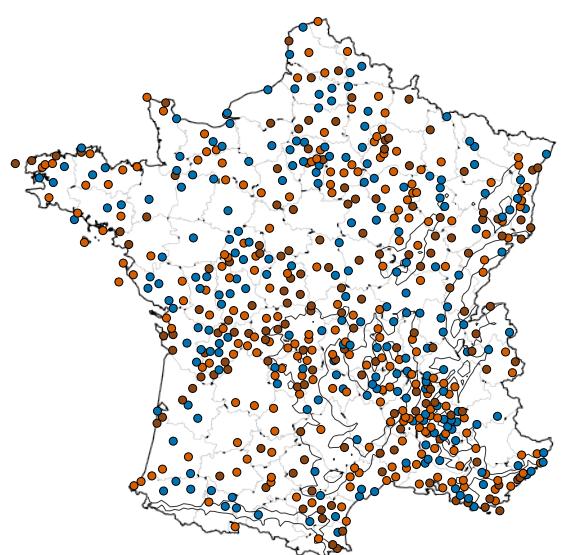
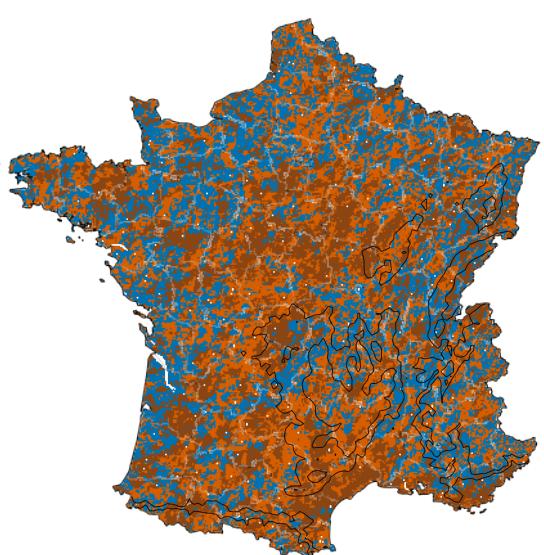
JUI



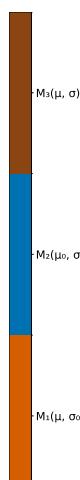
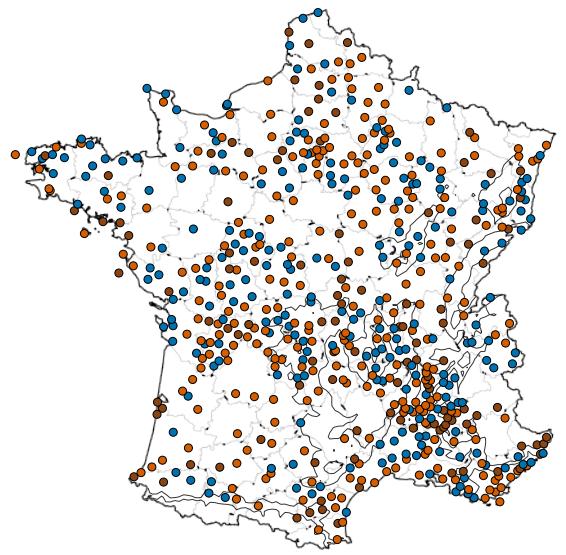
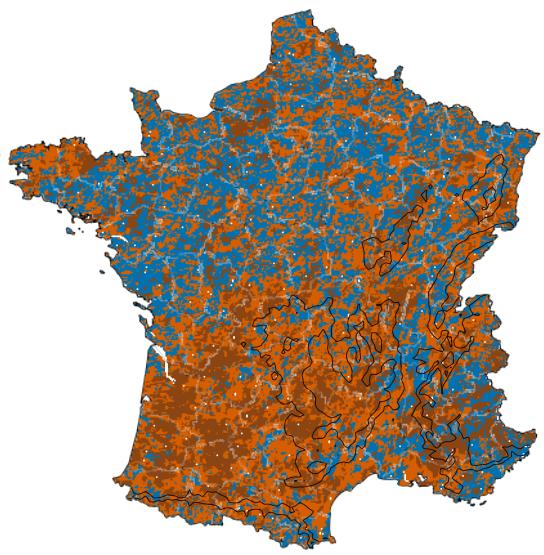
JUILL



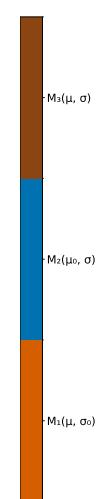
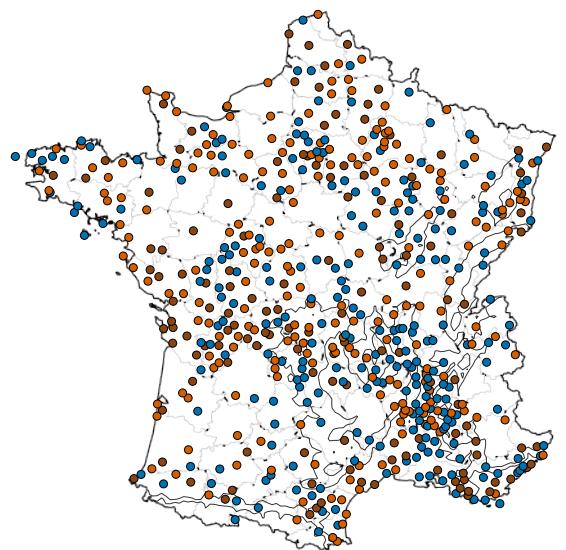
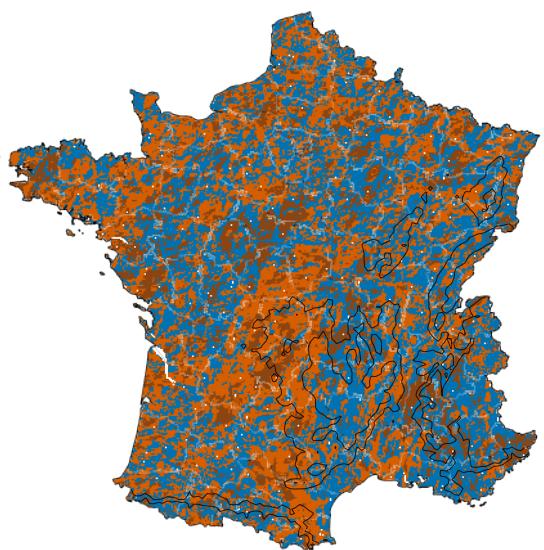
AOU



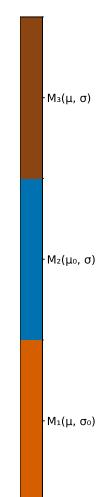
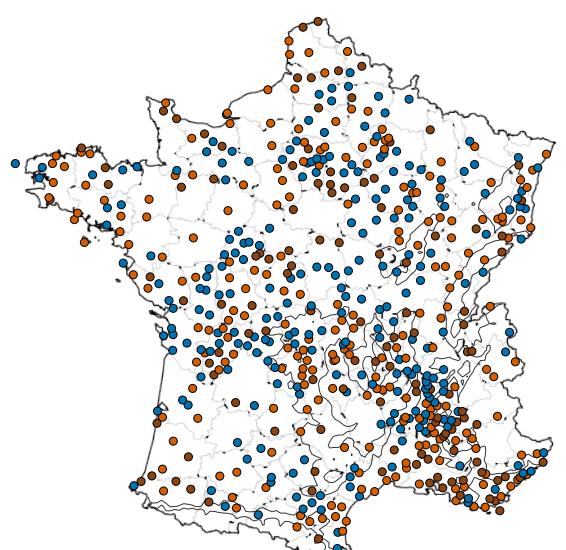
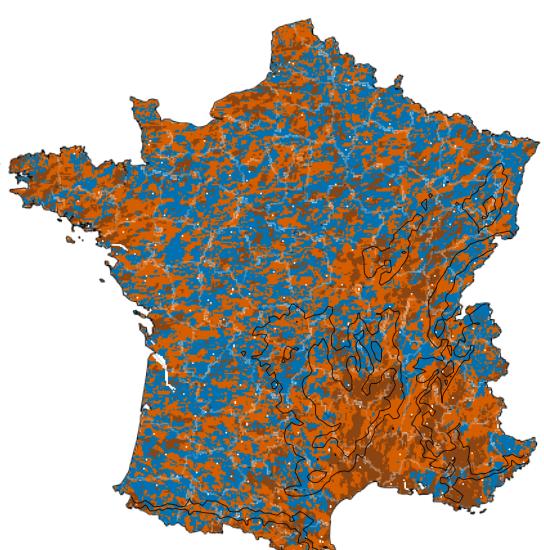
SEP



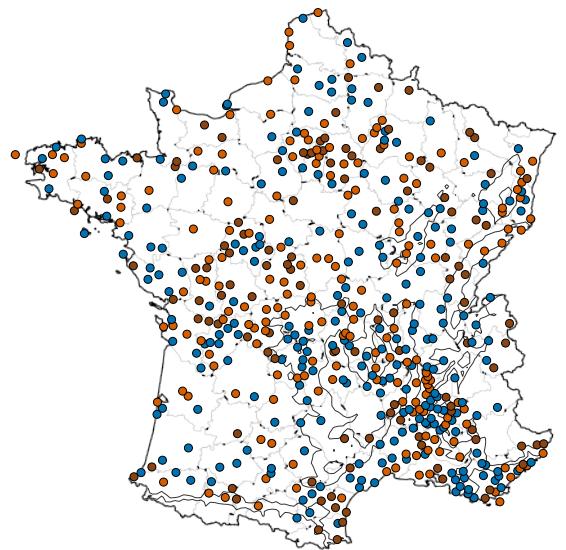
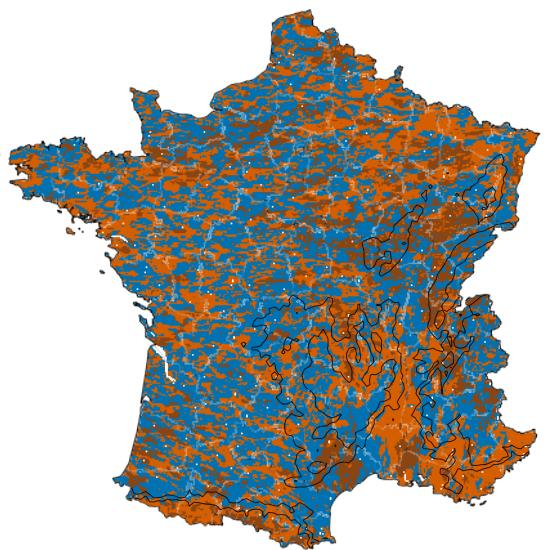
OCT



NOV

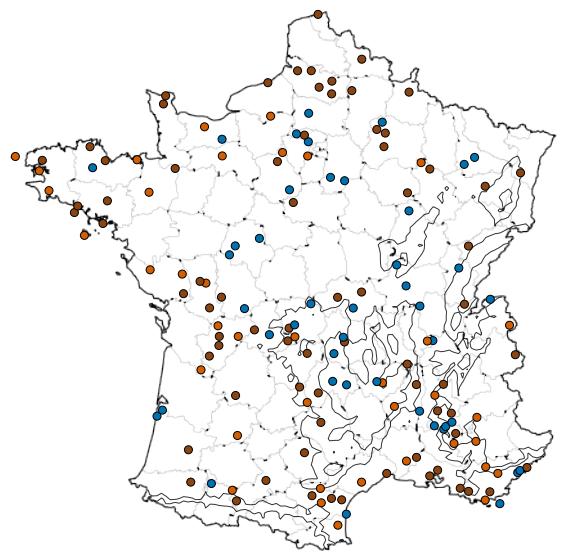
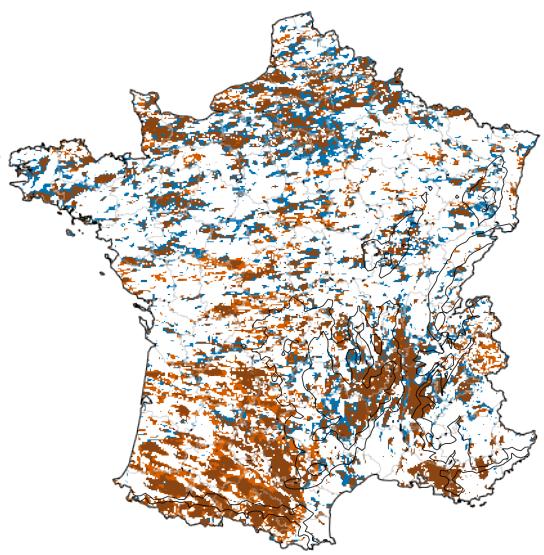


DEC

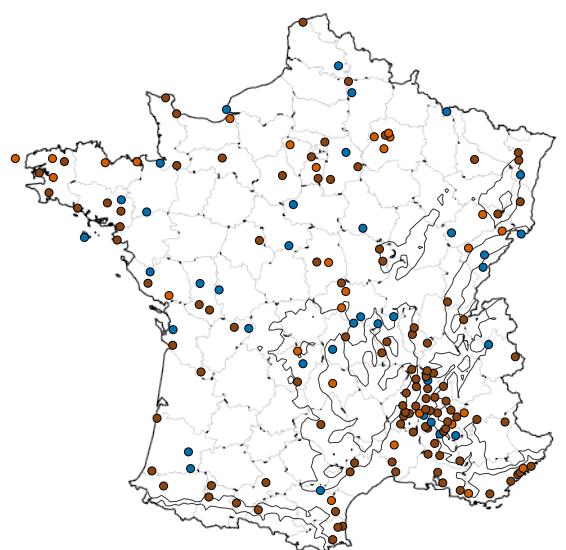
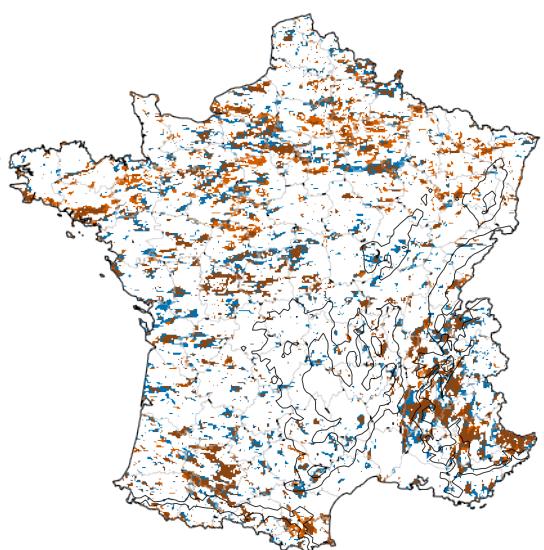


#### 5.3.2.2 Tendances significatives

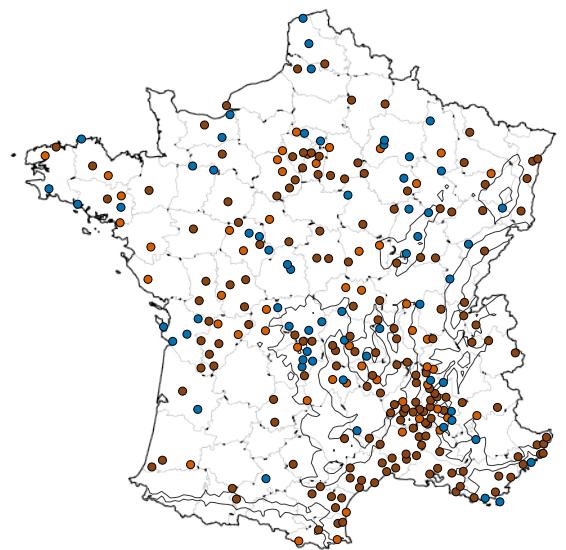
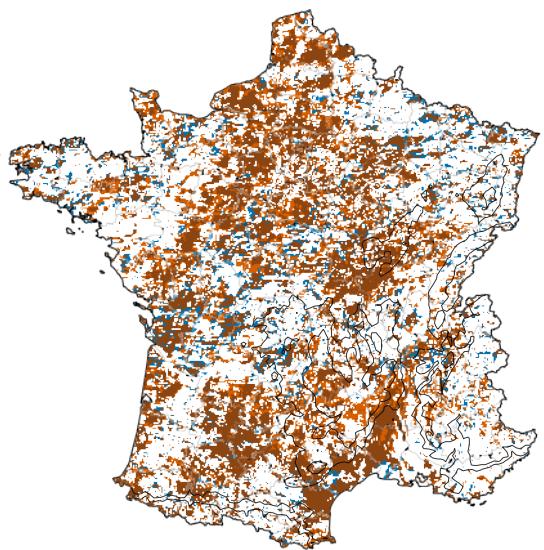
JAN



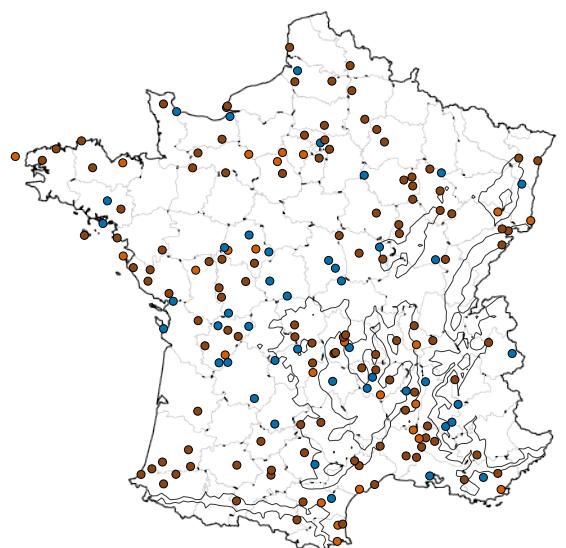
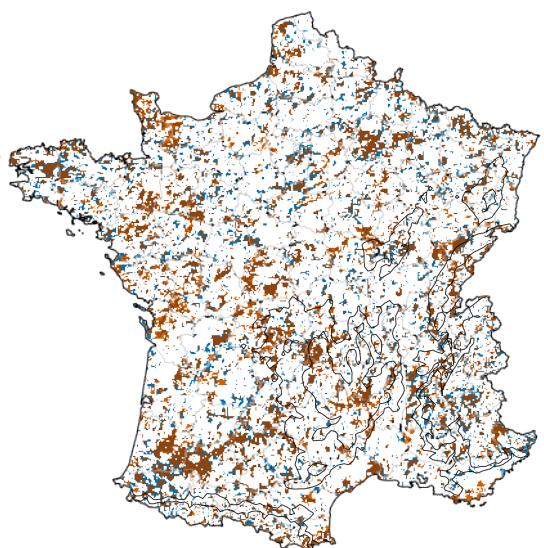
FEV



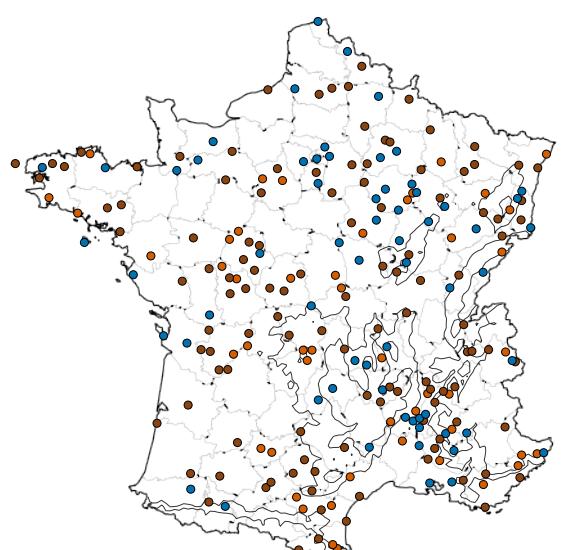
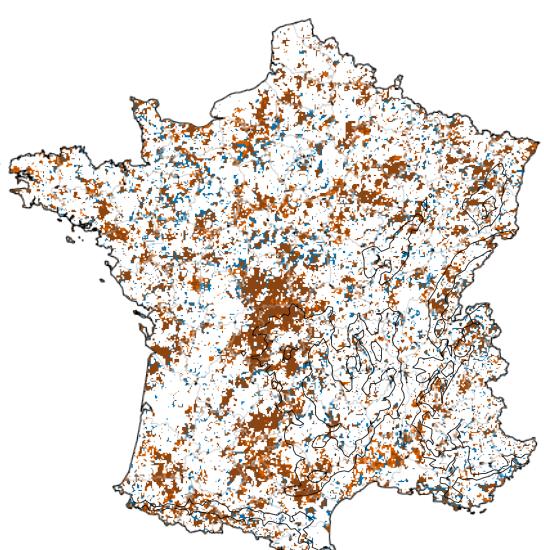
MAR



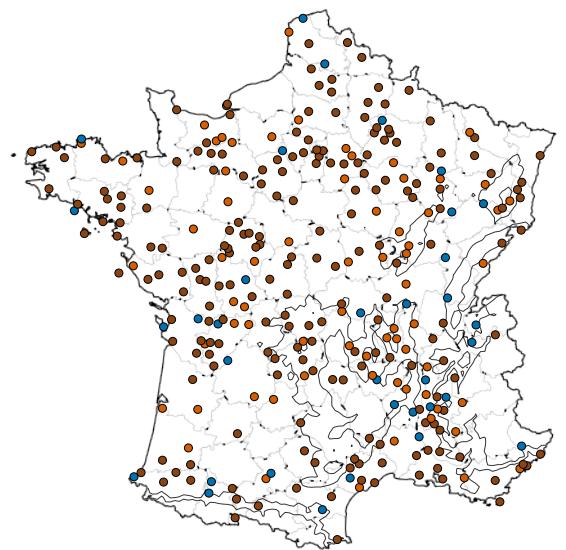
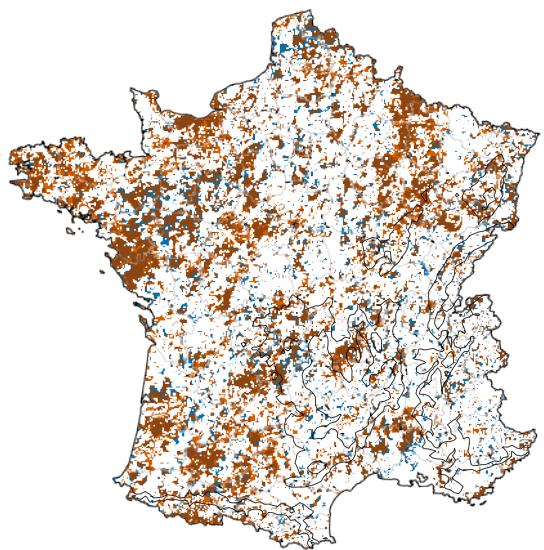
AVR



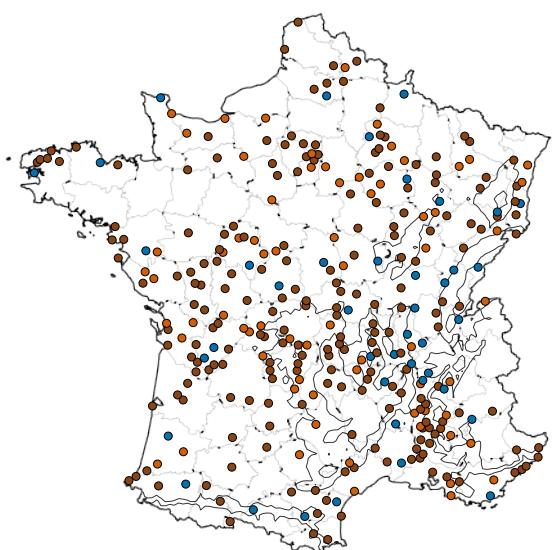
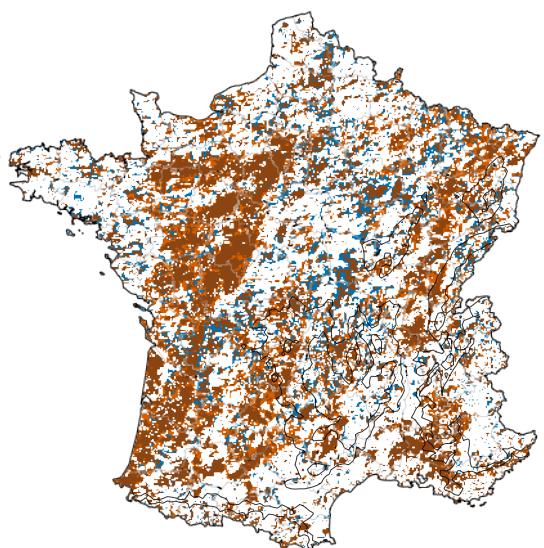
MAI



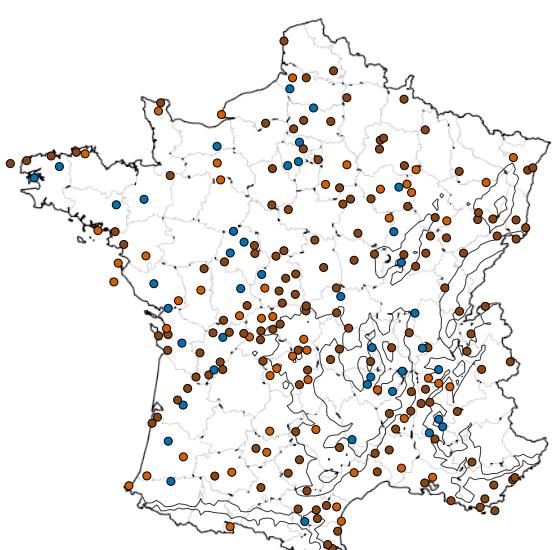
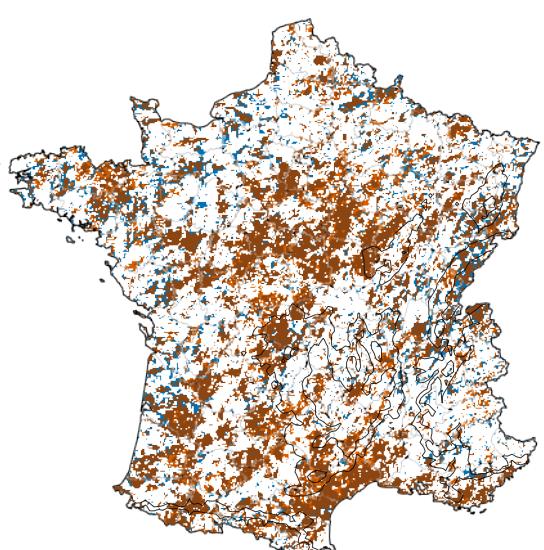
JUI



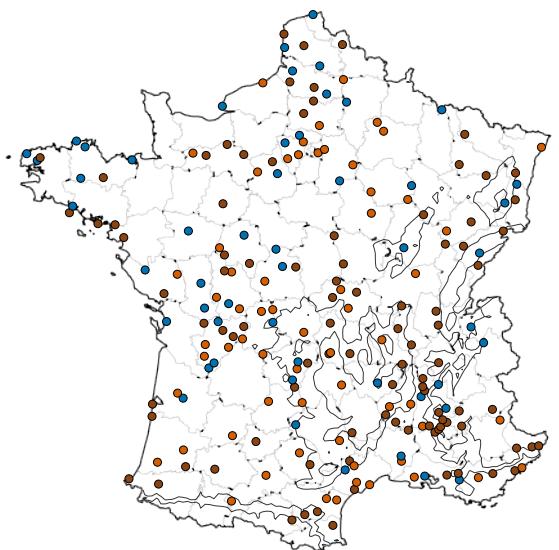
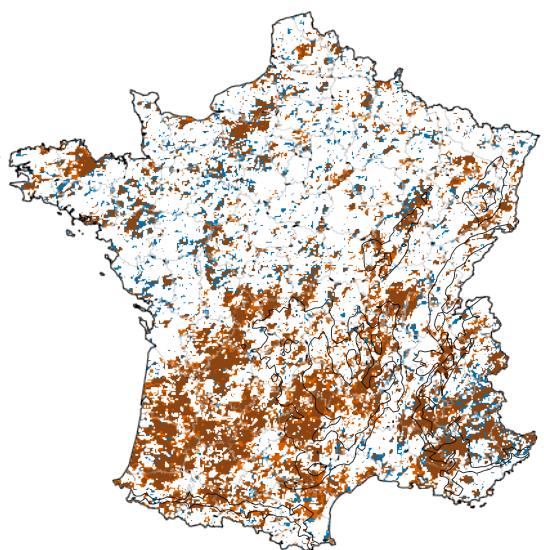
JUILL



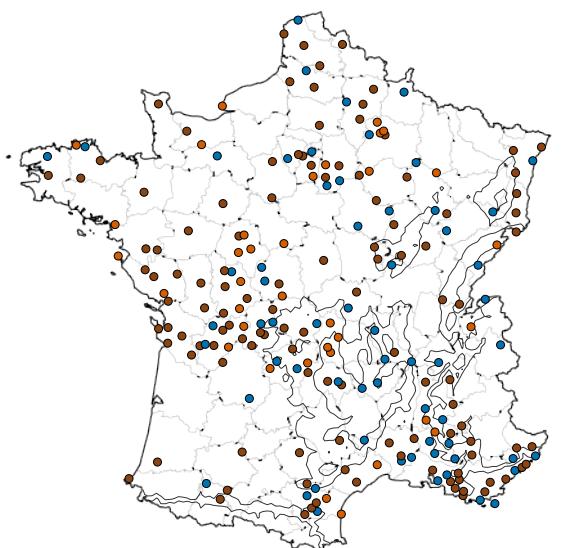
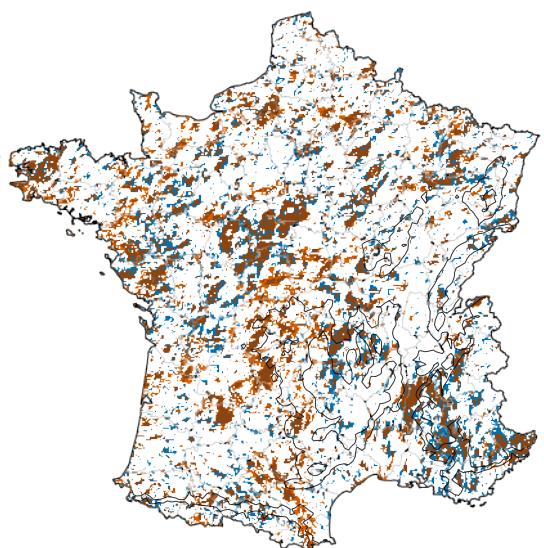
AOU



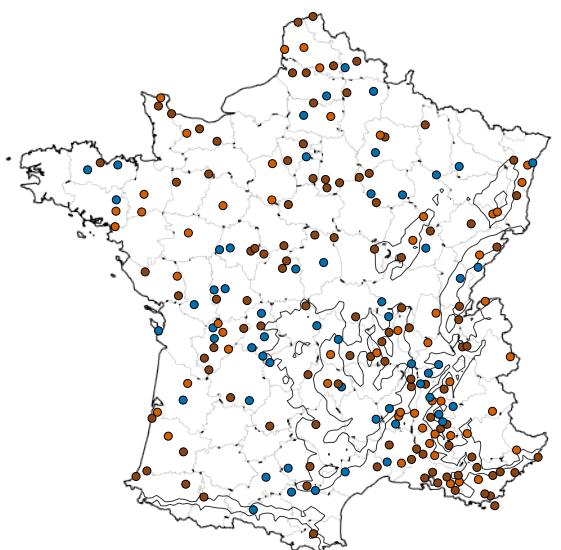
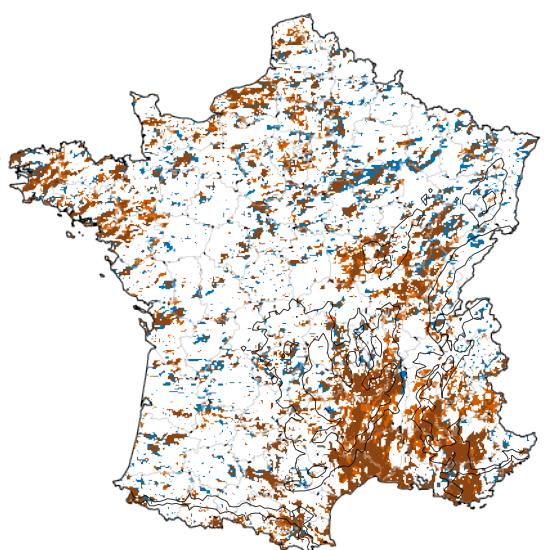
SEP



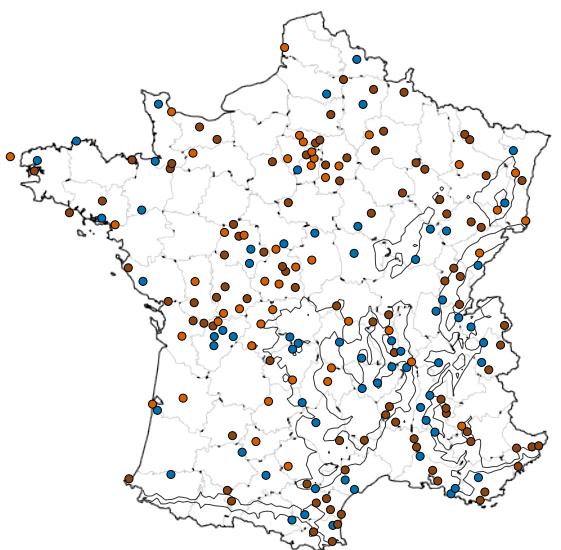
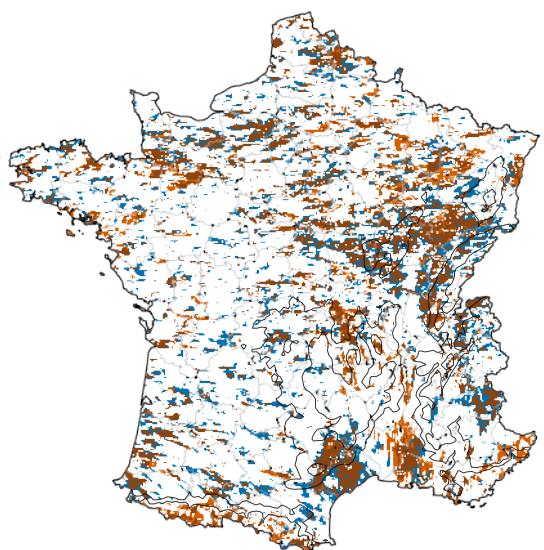
OCT



NOV

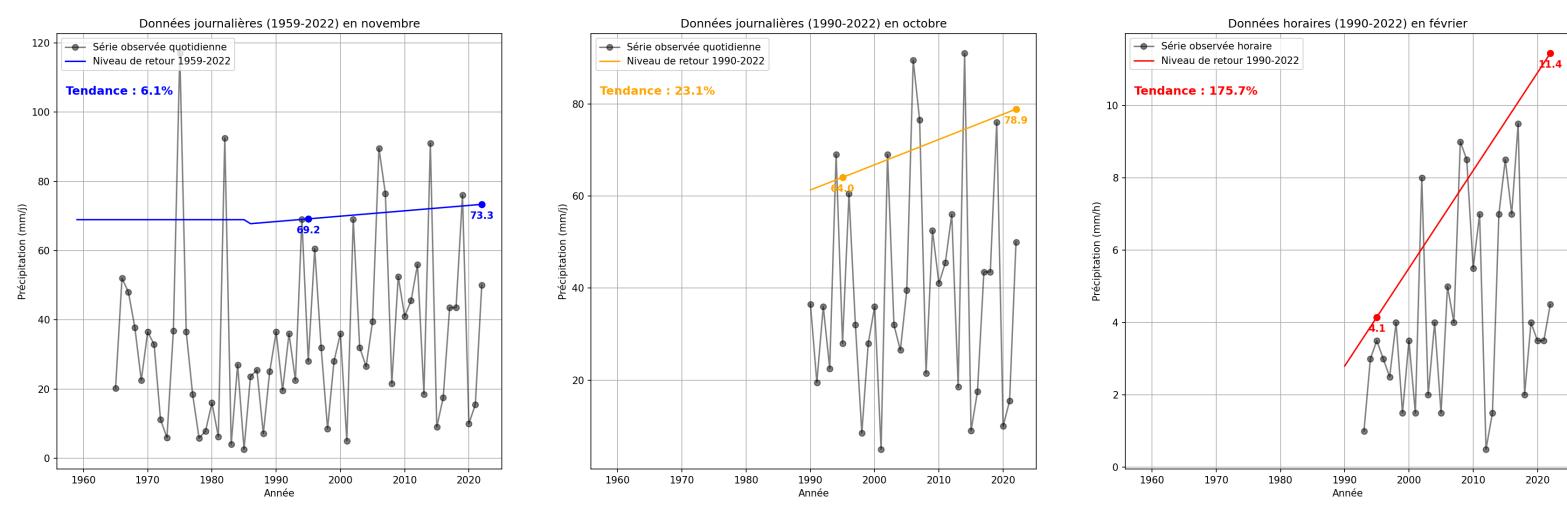


DEC



## 6 Exemple de séries temporelles des précipitations maximales aux différentes échelles d'une station

Station Météo-France de Saint-Marcel-lès-Valence (44°58'48.6"N 4°55'52.8"E) dans la Vallée du Rhône.



Modèle sélectionné dans l'ordre d'affichage des graphiques :  $M_1^*$ ,  $M_1$ ,  $M_3$ .