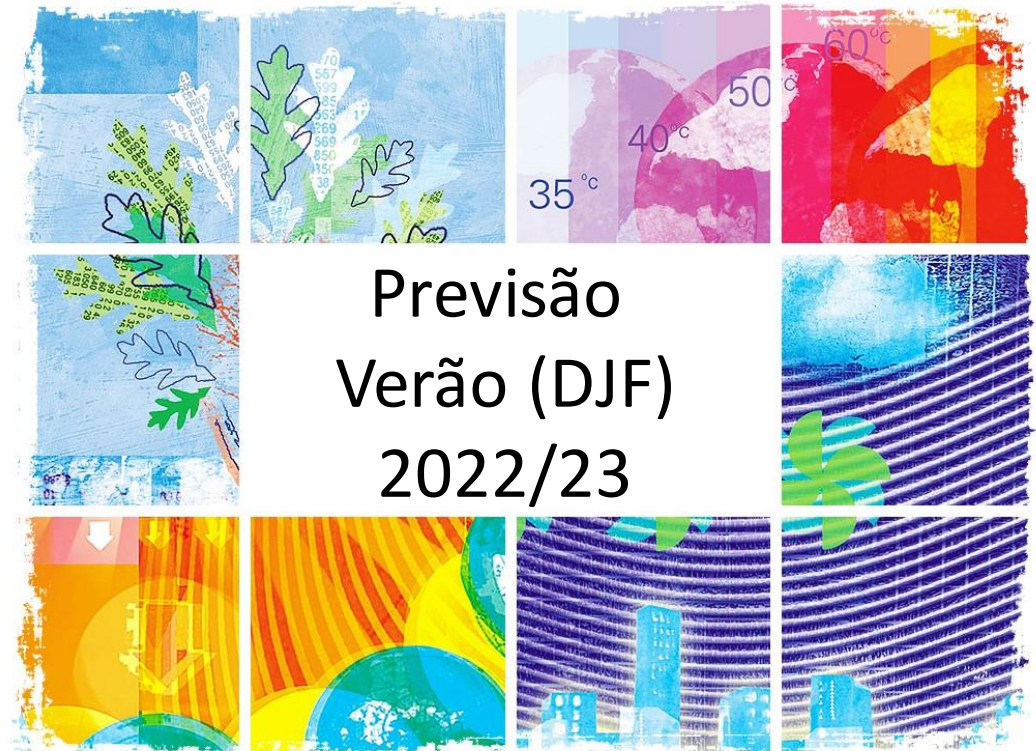


# IV Reunião Climática Mensal



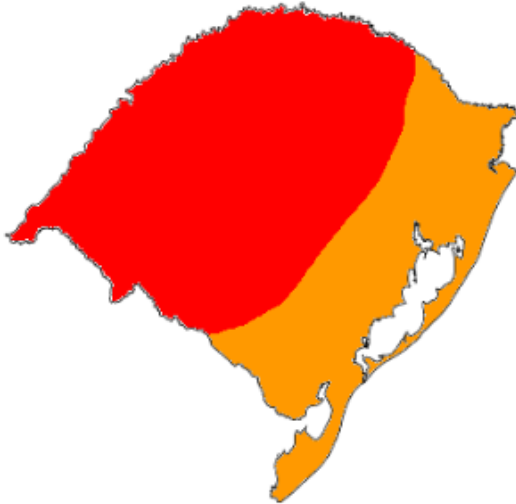
# Verificação da previsão para SON

Previsão por consenso realizada em Agosto de 2022

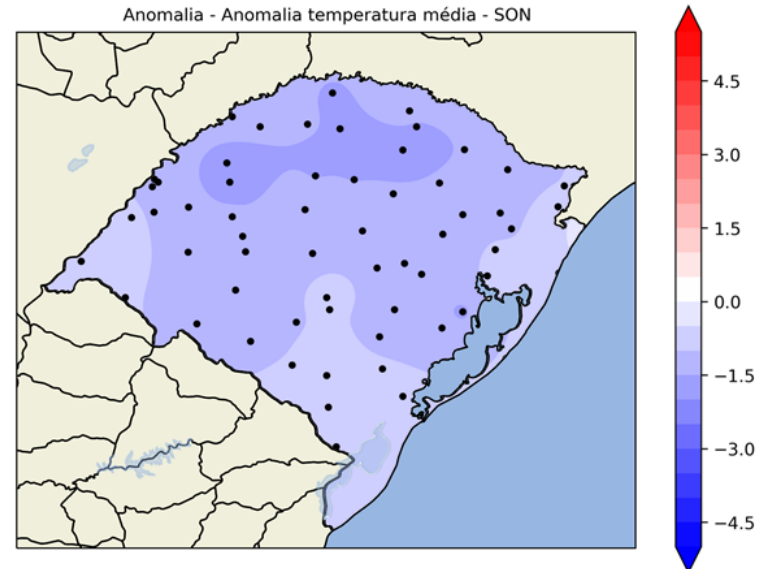
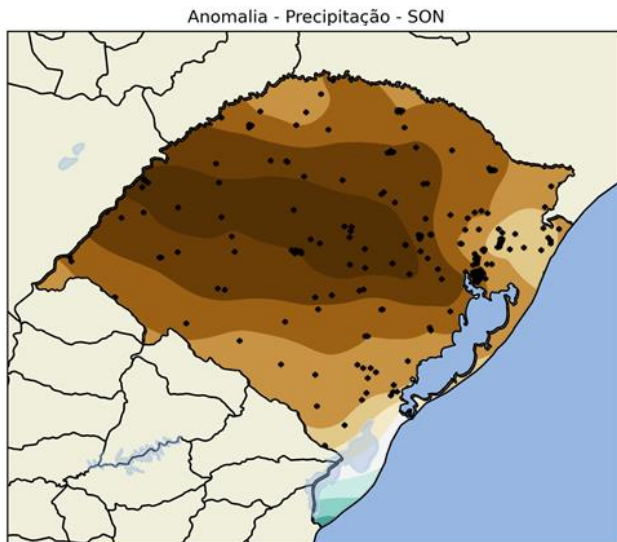
Precipitação

Temperatura do ar

Previsto:



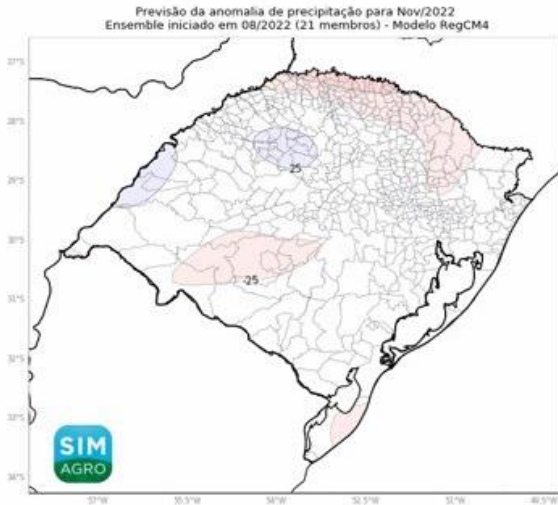
Observado:



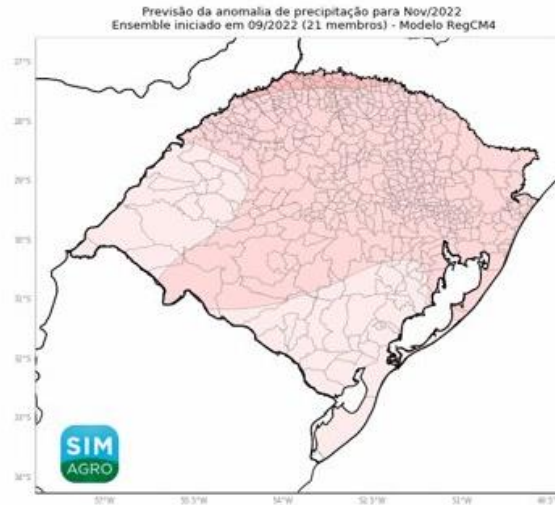
# Verificação dos modelos por tempo de antecedência

## Precipitação RegCM4 do SIMAGRO (Novembro/2022)

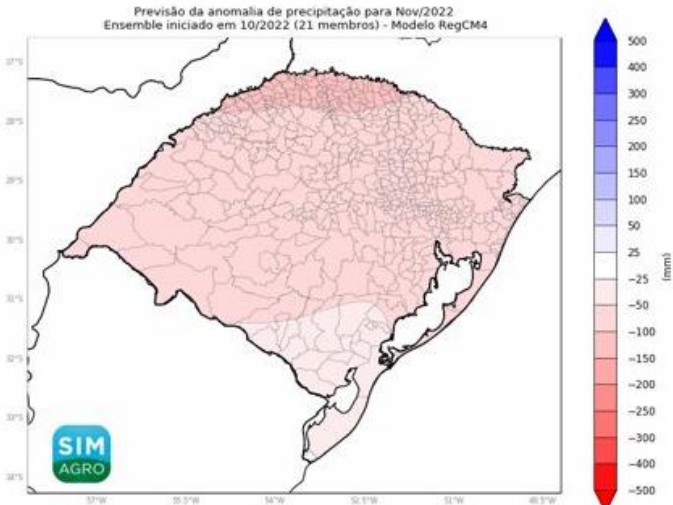
Iniciado em Agosto/2022



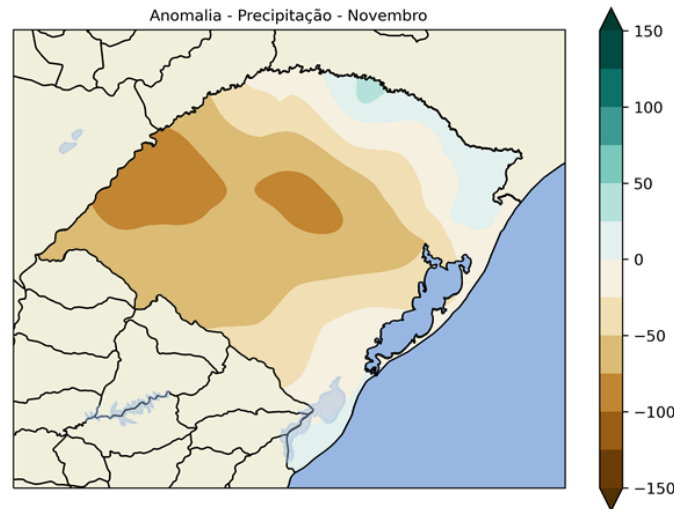
Iniciado em Setembro/2022



Iniciado em Outubro/2022



Observado:





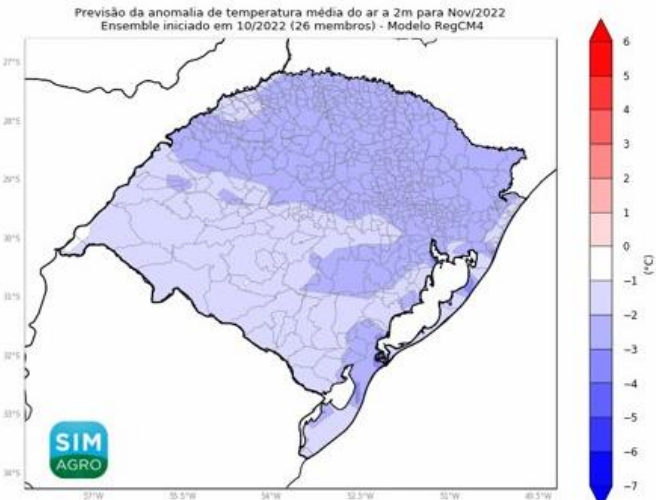
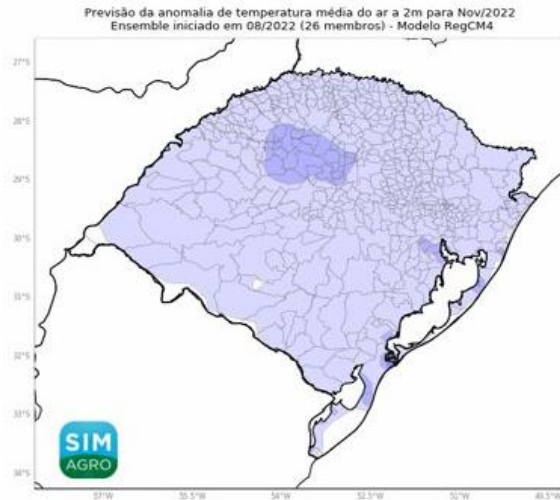
# Verificação dos modelos por tempo de antecedência

## Anomalia de Temperatura SIMAGRO (Novembro/2022)

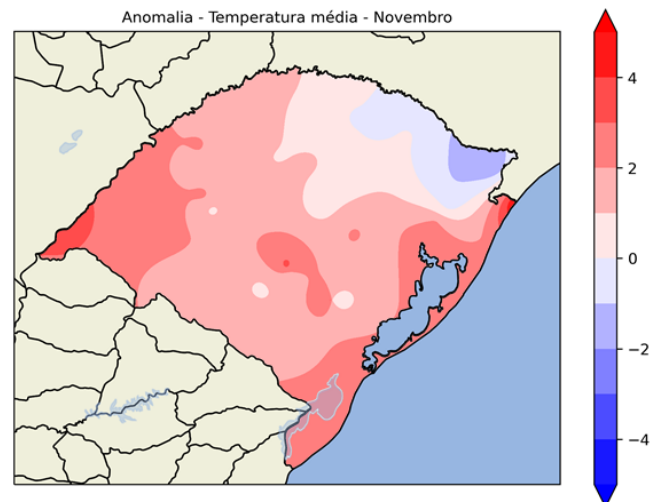
Iniciado em Agosto/2022

Iniciado em Setembro/2022

Iniciado em Outubro/2022



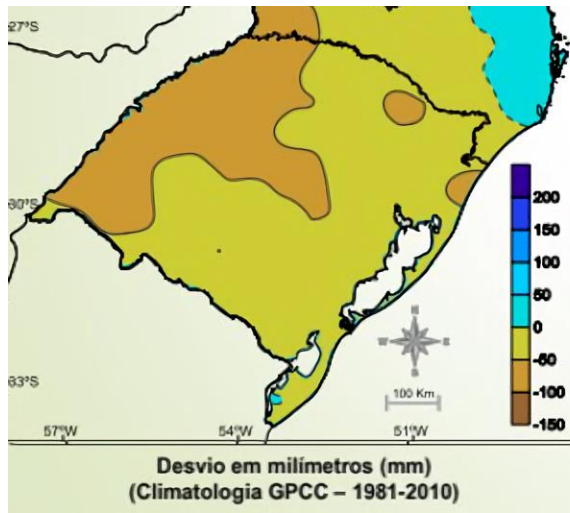
Observado:



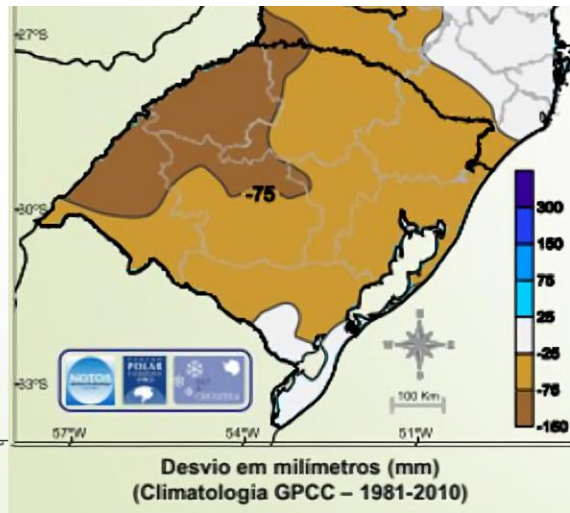
# Verificação dos modelos por tempo de antecedência

## Precipitação MoReClima-SUL (Novembro/2022)

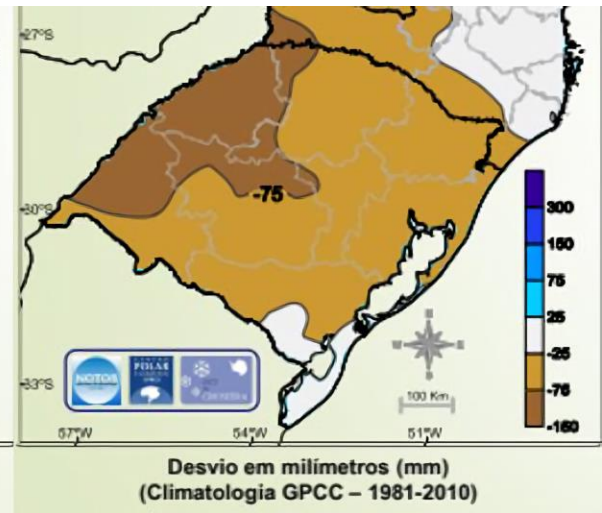
Iniciado em Agosto/2022



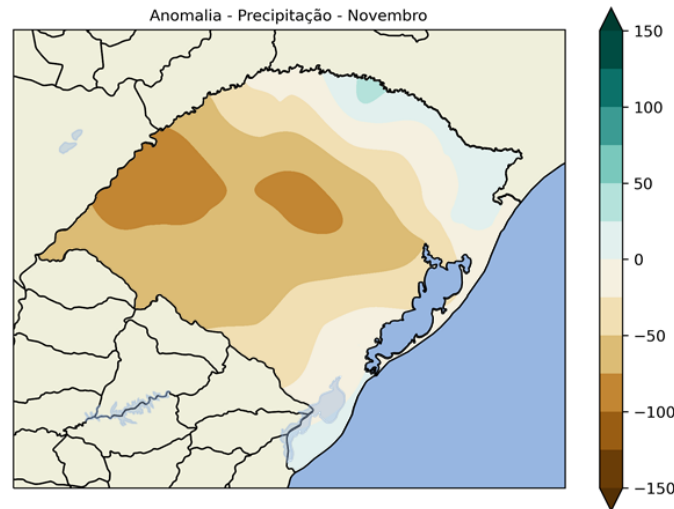
Iniciado em Setembro/2022



Iniciado em Outubro/2022



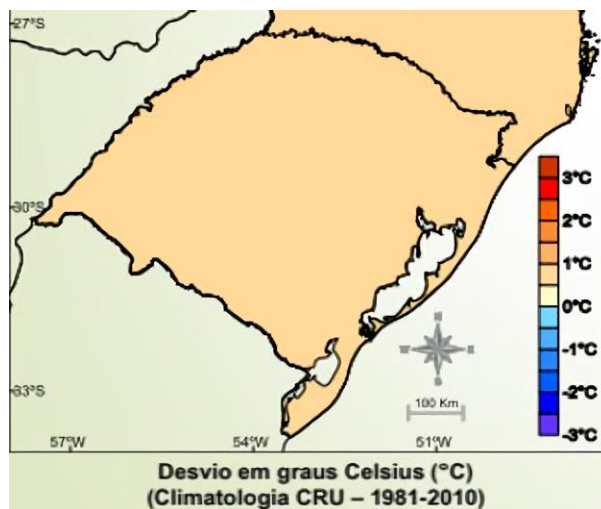
Observado:



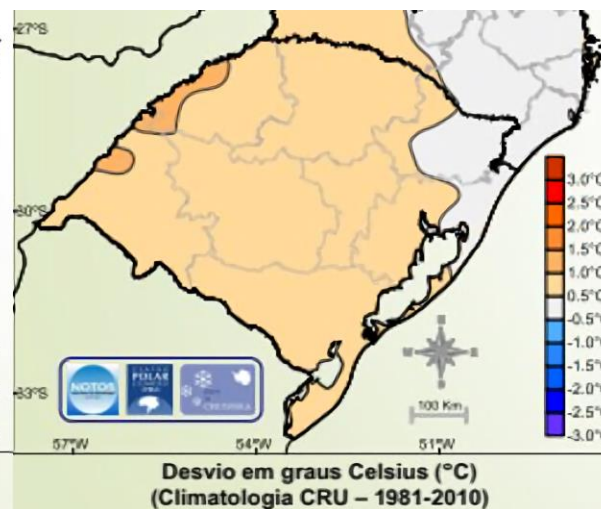
# Verificação dos modelos por tempo de antecedência

## Anomalia de Temperatura MoReClima-SUL (Novembro/2022)

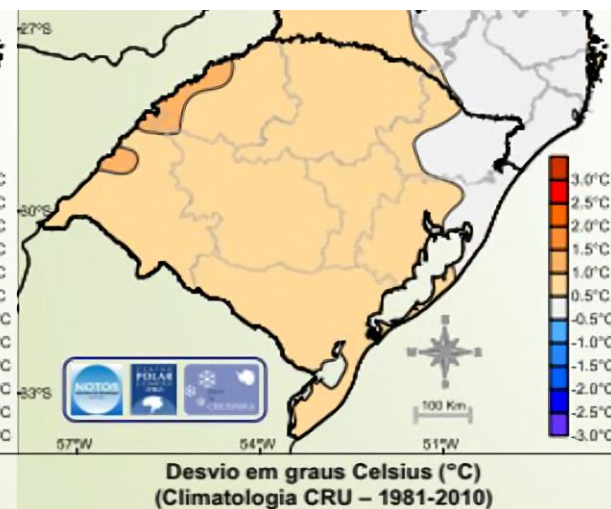
Iniciado em Agosto/2022



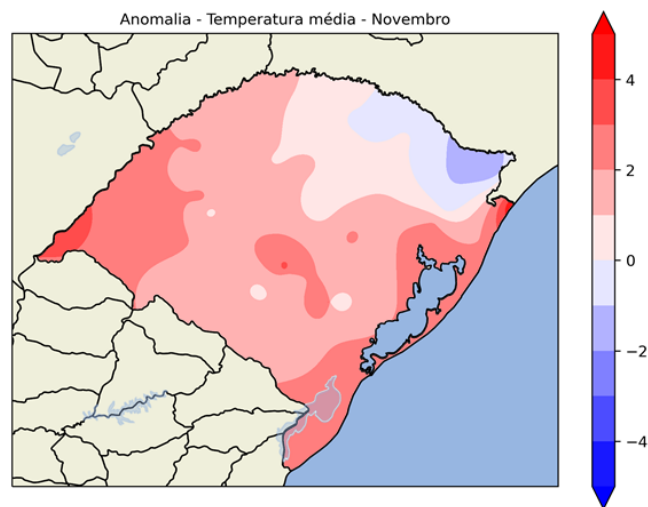
Iniciado em Setembro/2022



Iniciado em Outubro/2022



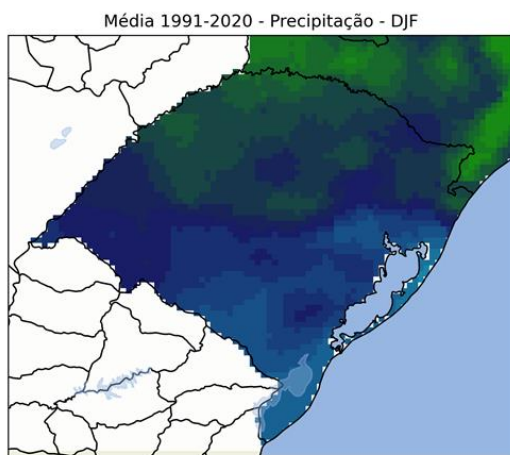
Observado:



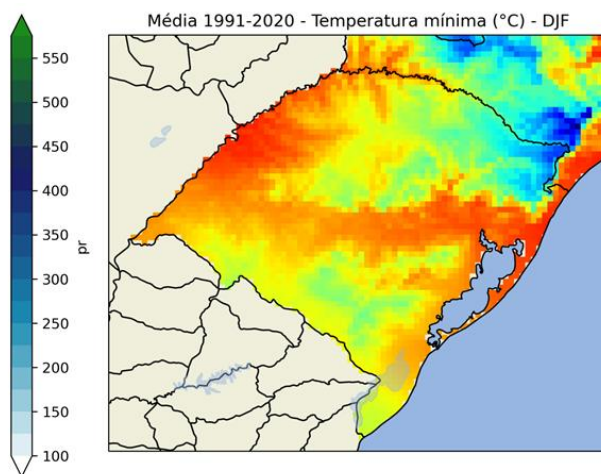


# Climatologia de DJF

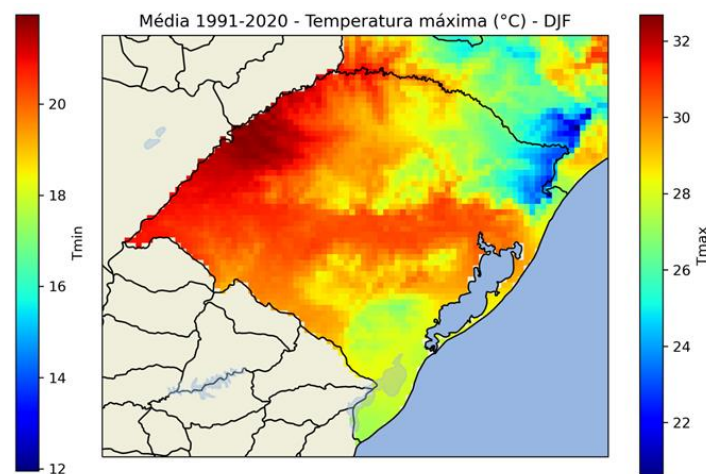
- Caracterizada por um contraste de chuva entre o centro-sul do RS, mais seco e o centro-norte do estado, relativamente mais úmido;
- As médias de temperatura mínima e máxima são mais altas no noroeste do RS e na faixa central do estado até o litoral norte;



**Precipitação**



**Temperatura mínima**

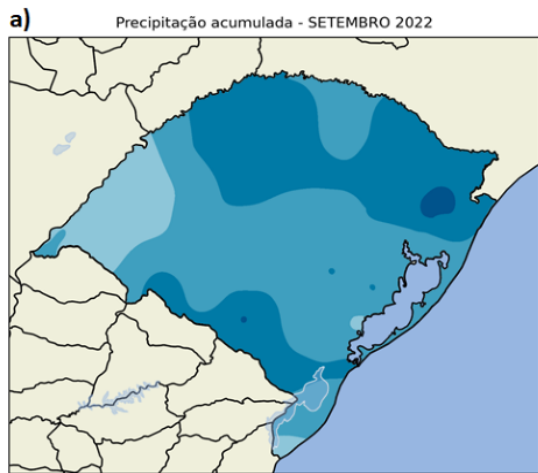


**Temperatura máxima**

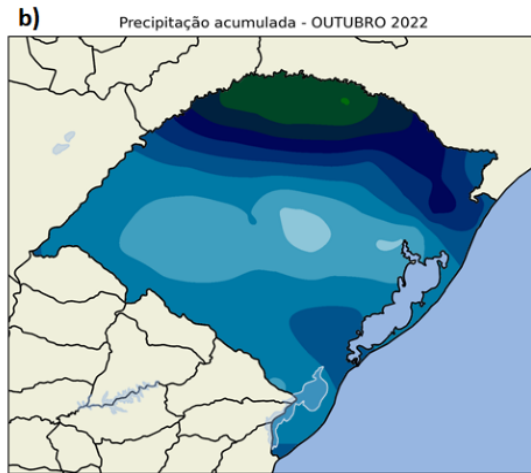
# Condições observadas em ASO/2022

Valores absolutos

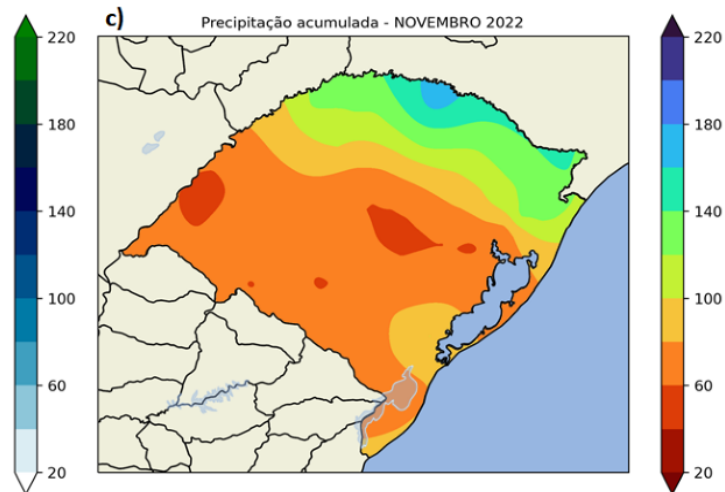
Setembro



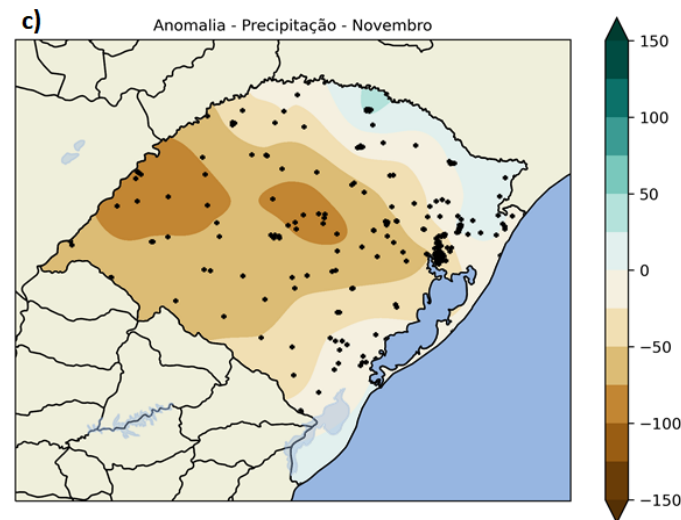
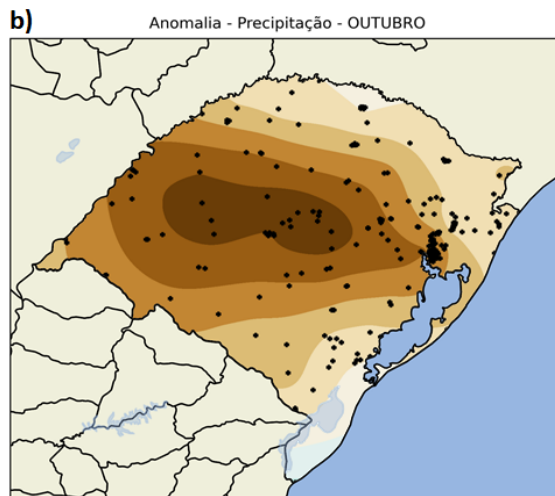
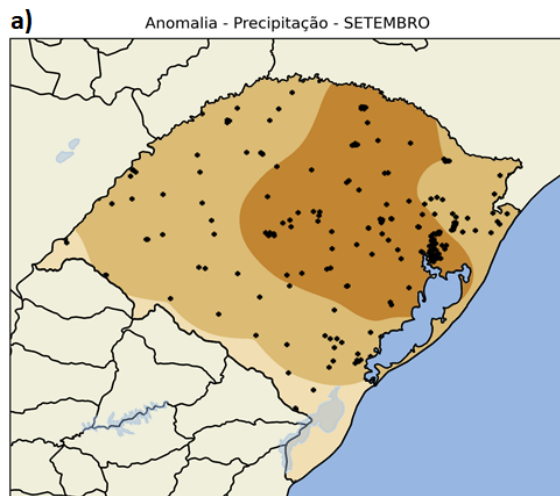
Outubro



Novembro



Anomalias

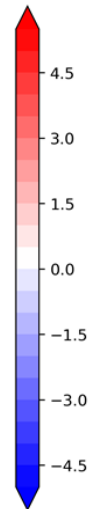
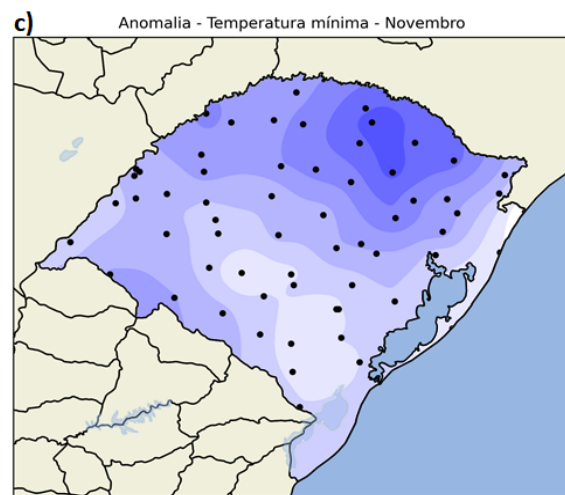
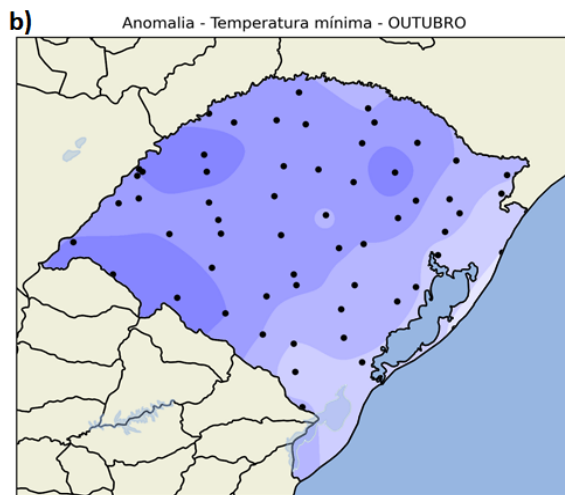
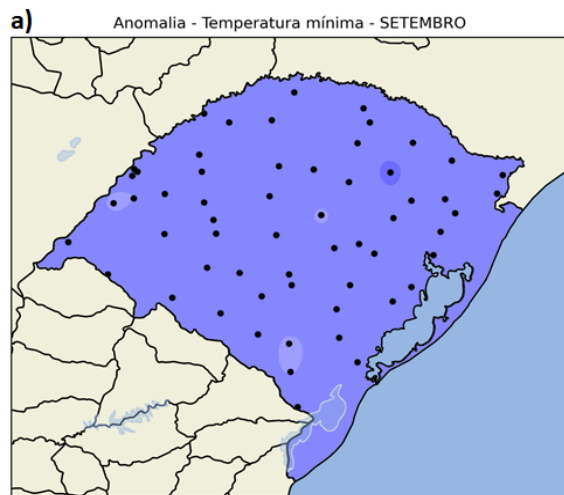




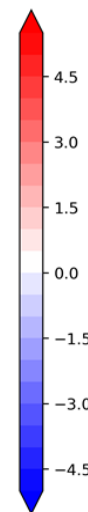
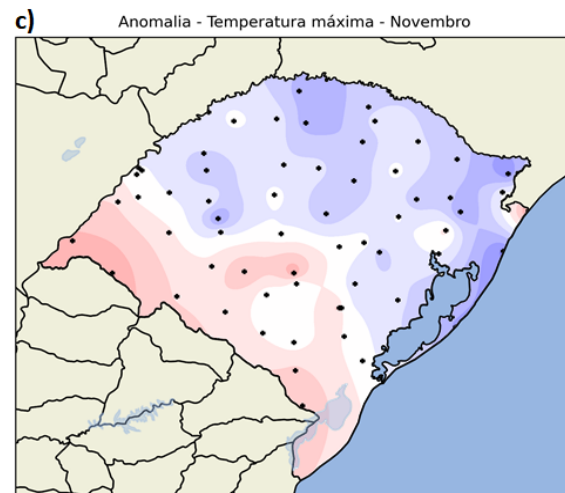
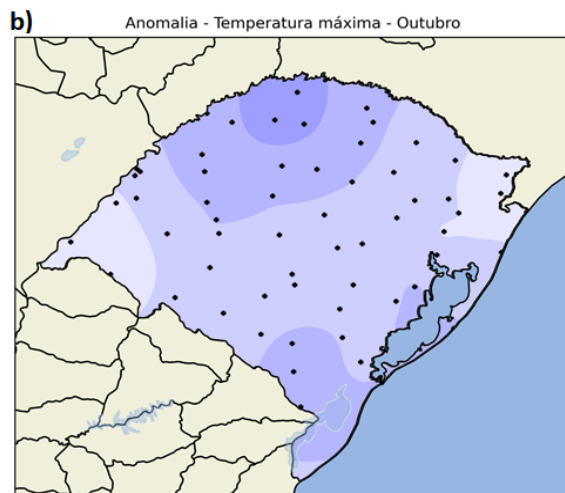
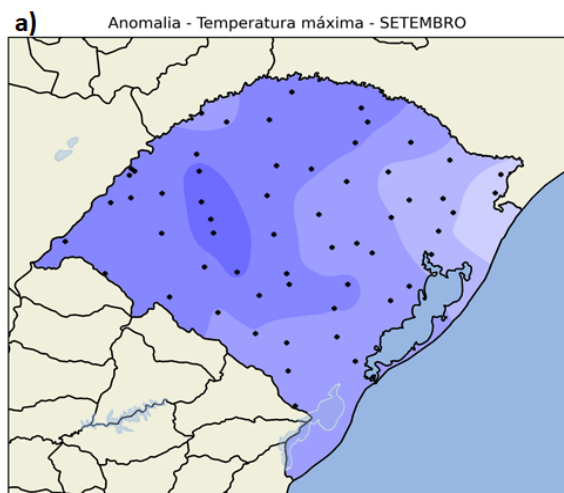
# Condições observadas em SON/2022

## Anomalias

Tmin



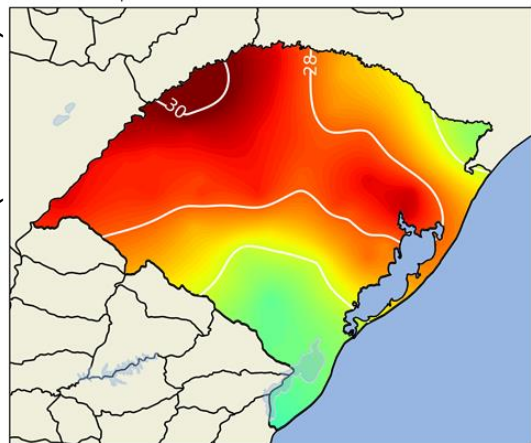
Tmax



# Condições observadas em SON/2022

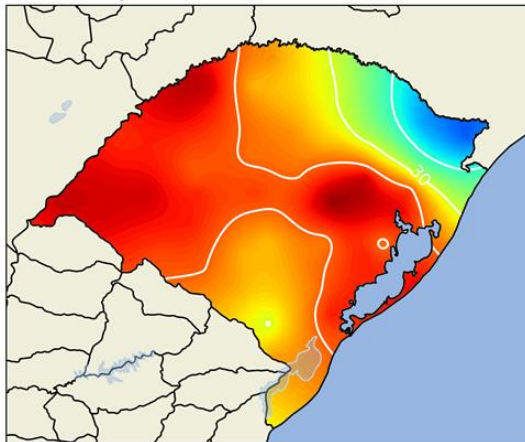
Setembro

Temperatura máxima absoluta - SETEMBRO 2022



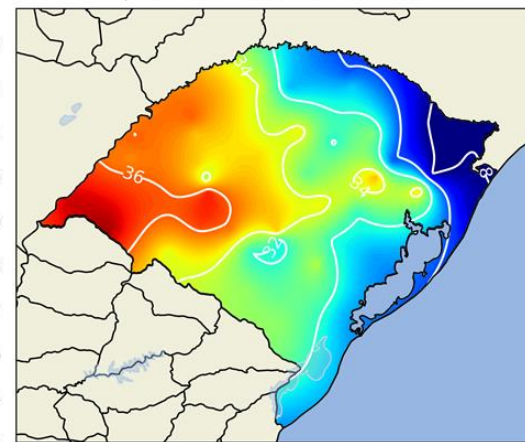
Outubro

Temperatura máxima absoluta - OUTUBRO 2022



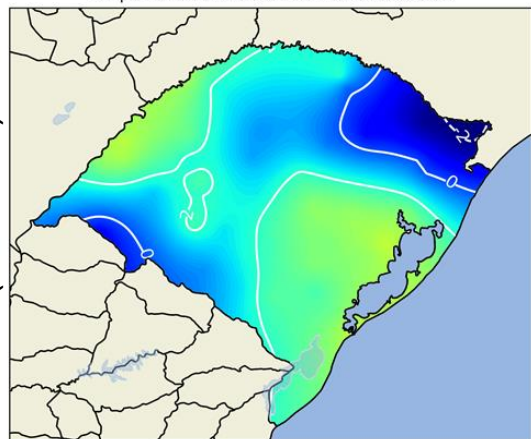
Novembro

Temperatura máxima absoluta - NOVEMBRO 2022

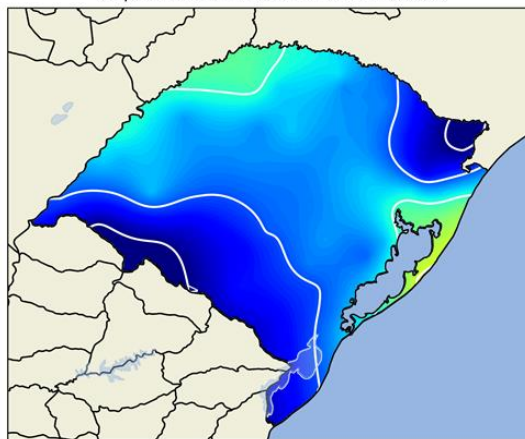


Tmax (absoluta)

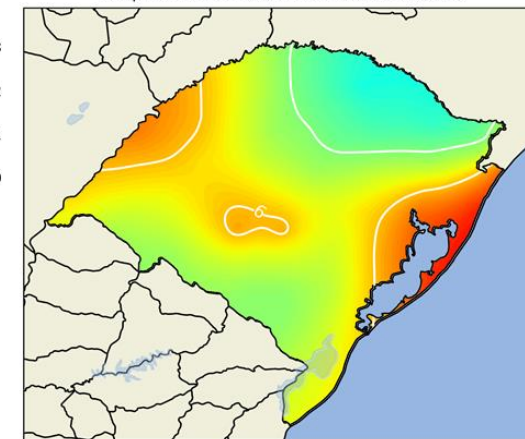
Temperatura máxima absoluta - SETEMBRO 2022



Temperatura mínima absoluta - OUTUBRO 2022

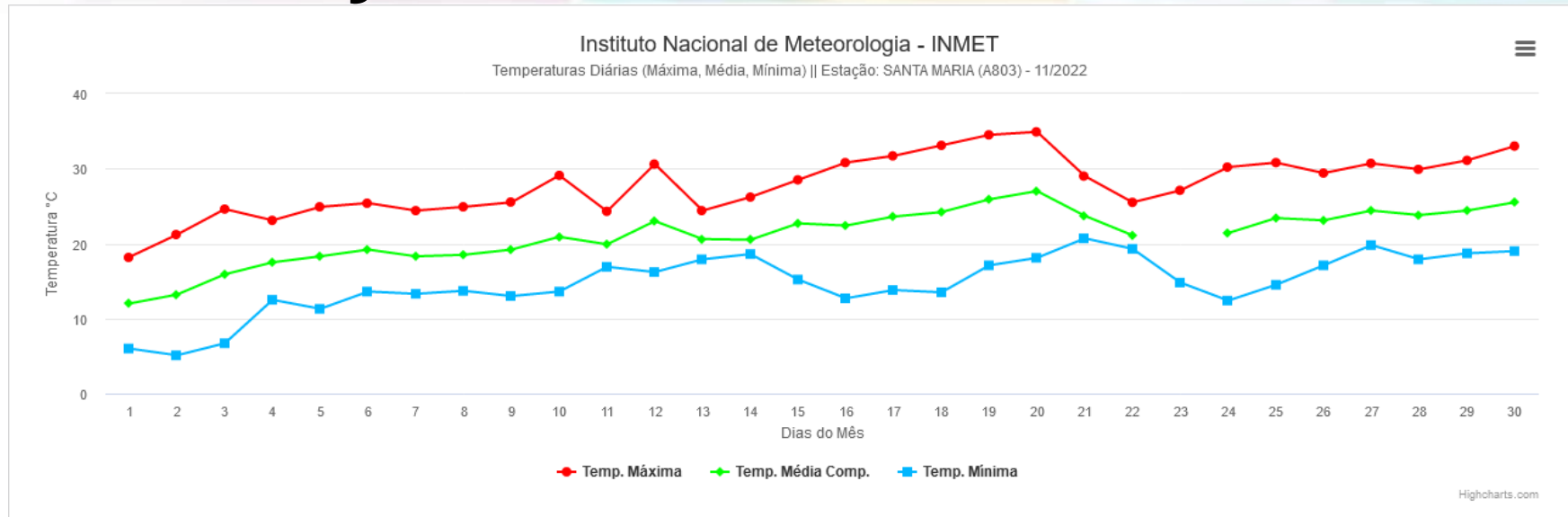


Temperatura mínima absoluta - NOVEMBRO 2022

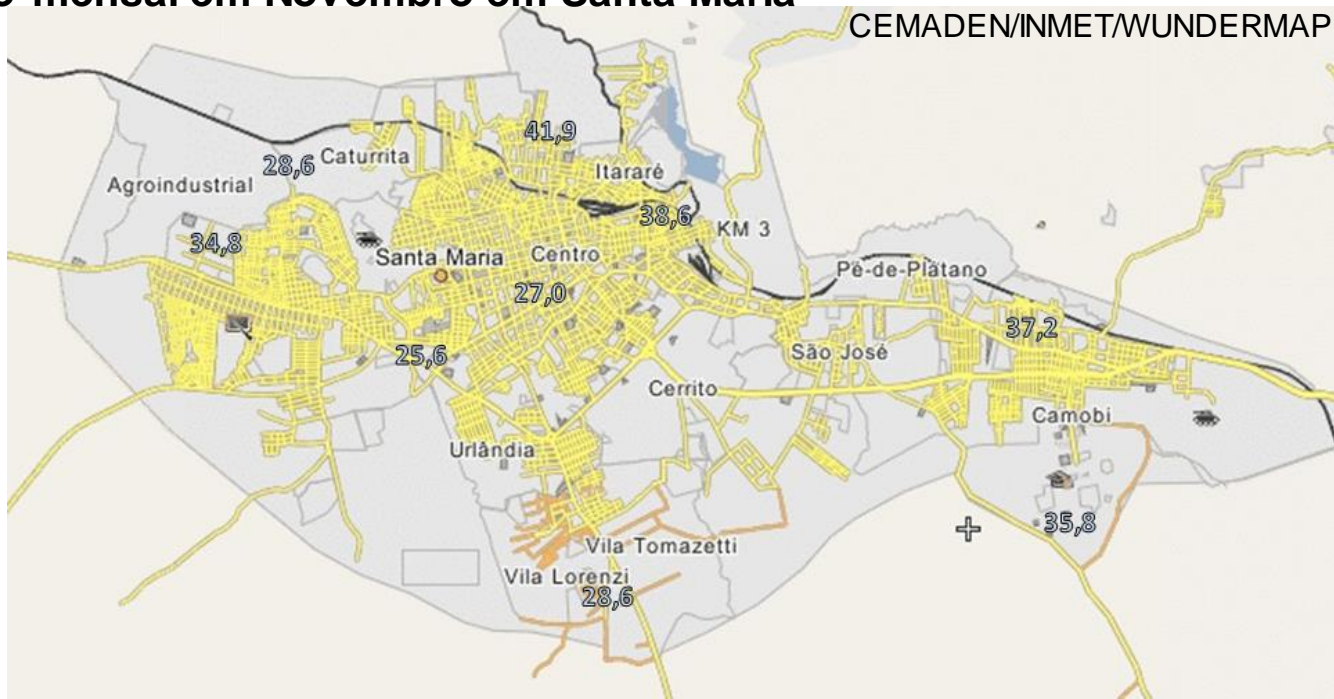


Tmin (absoluta)

# Condições observadas em Nov/2022



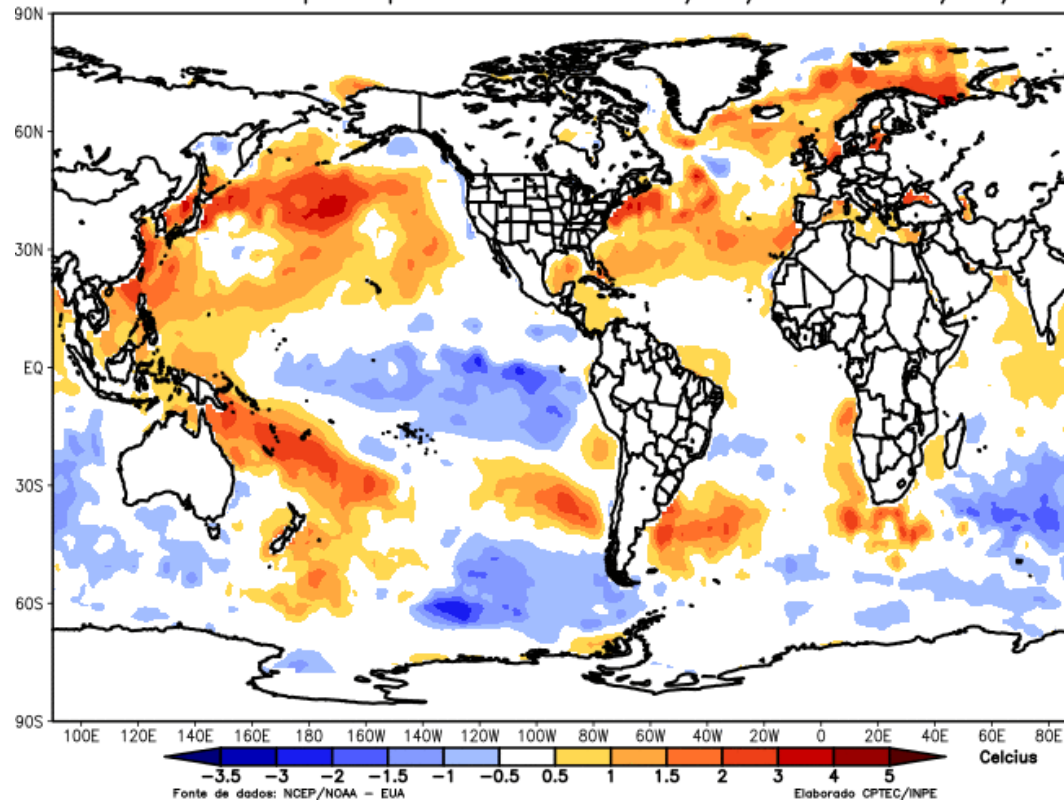
## Precipitação mensal em Novembro em Santa Maria





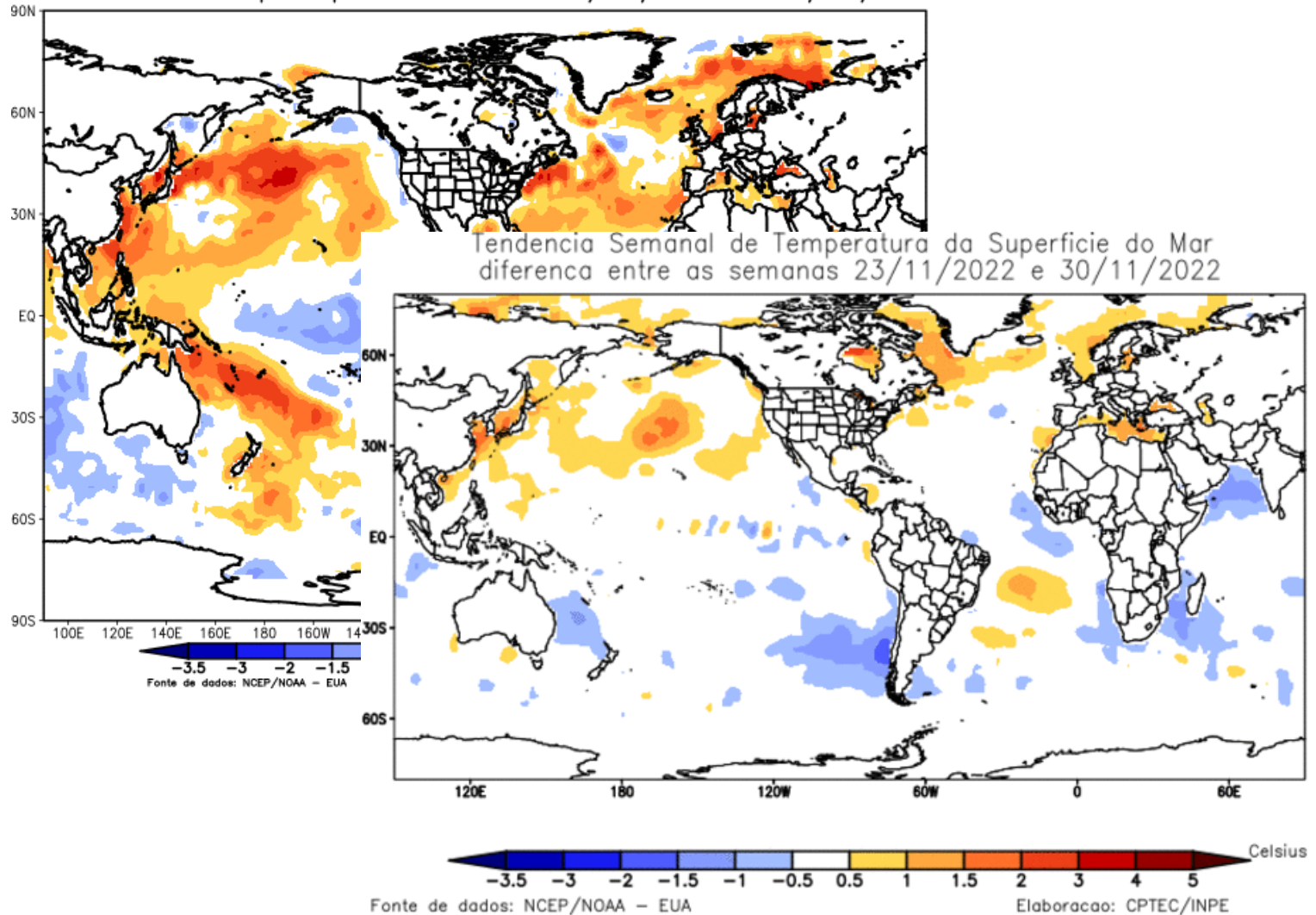
# Condições oceânicas

Anomalia de Temp. Superfície do Mar 27/11/2022 a 03/12/2022

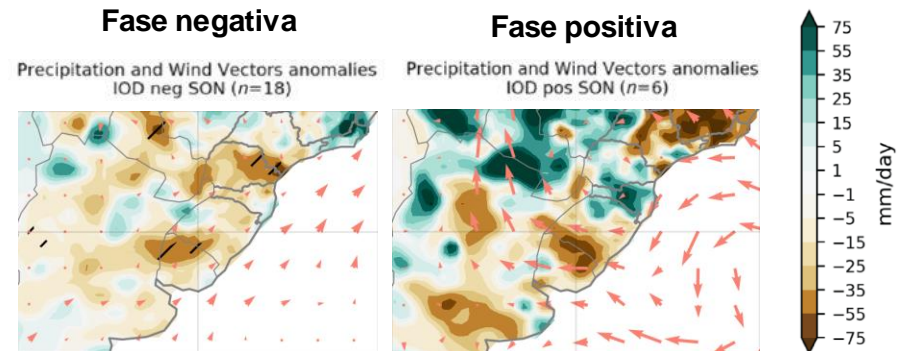
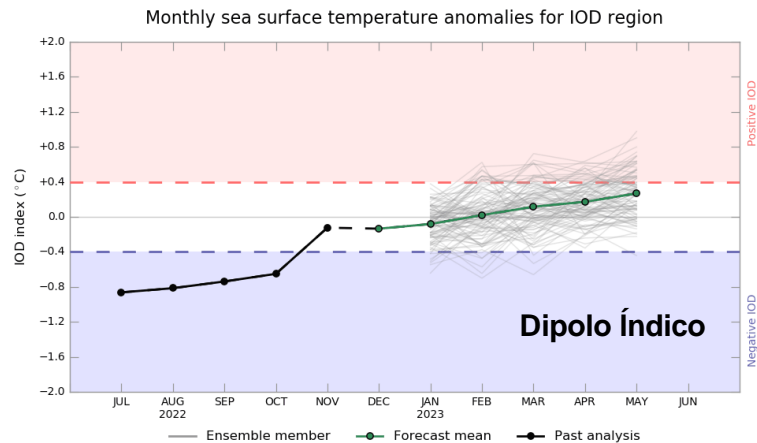
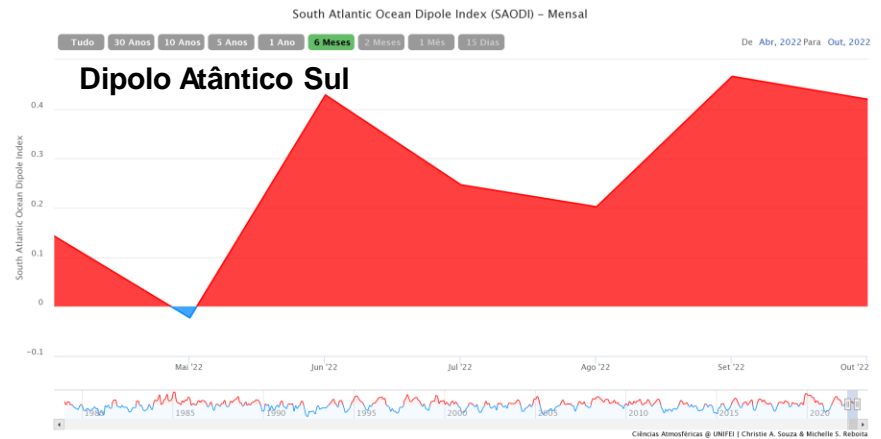
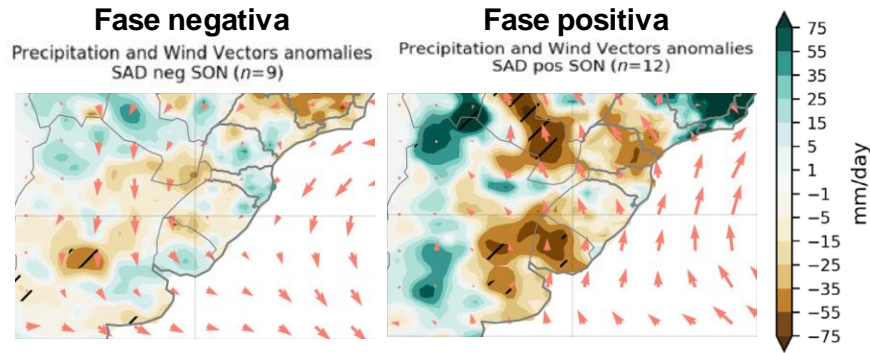
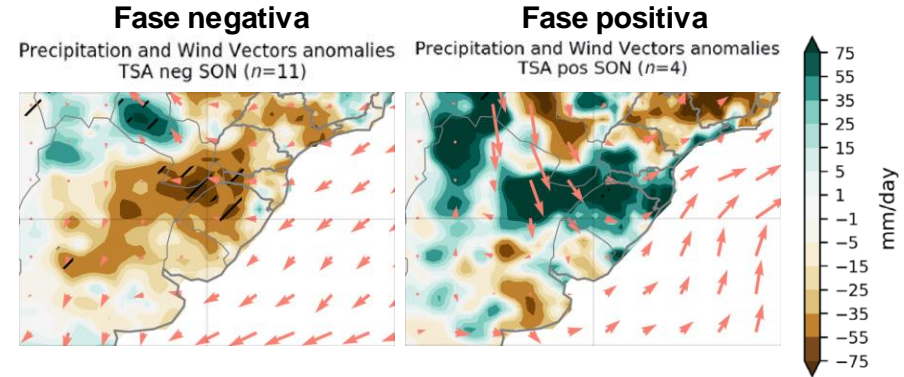
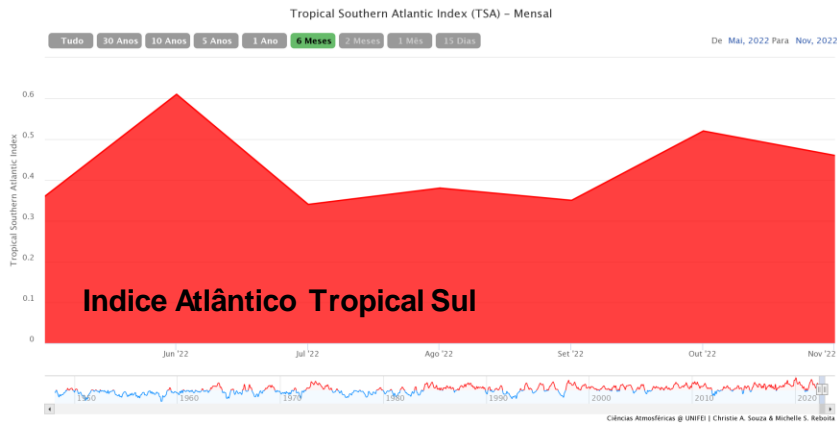


# Condições oceânicas

Anomalia de Temp. Superfície do Mar 27/11/2022 a 03/12/2022



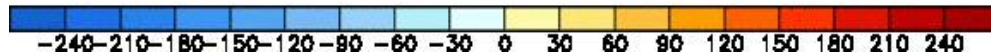
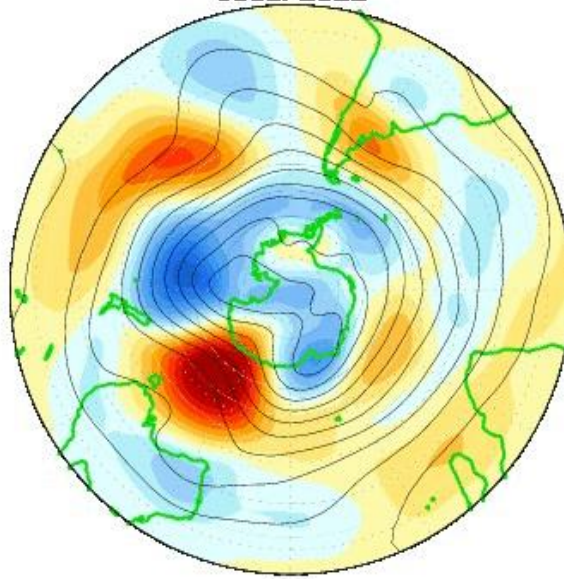
# Índices oceânicos



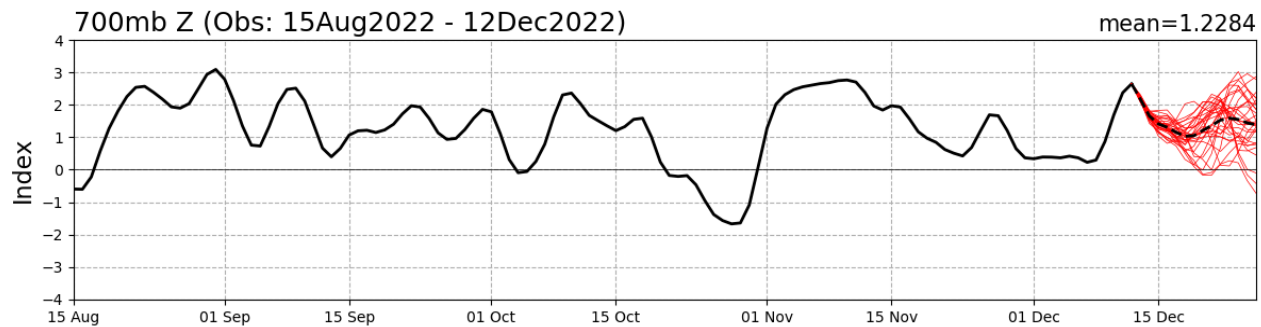


# Índices atmosférico (AAO)

CDAS 500-hPa HT Anoms (5d rm)  
05SEP2022

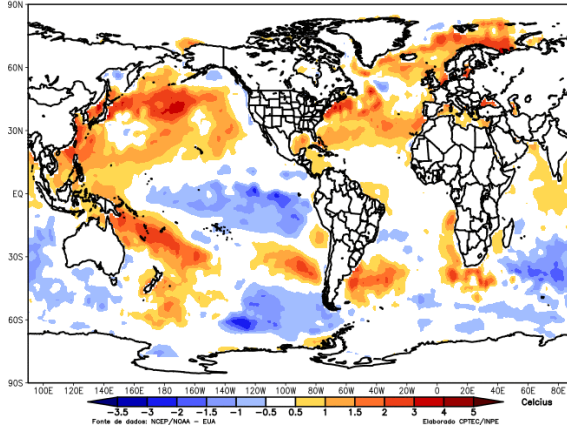


## AAO Index: Observed & GEFS Forecasts

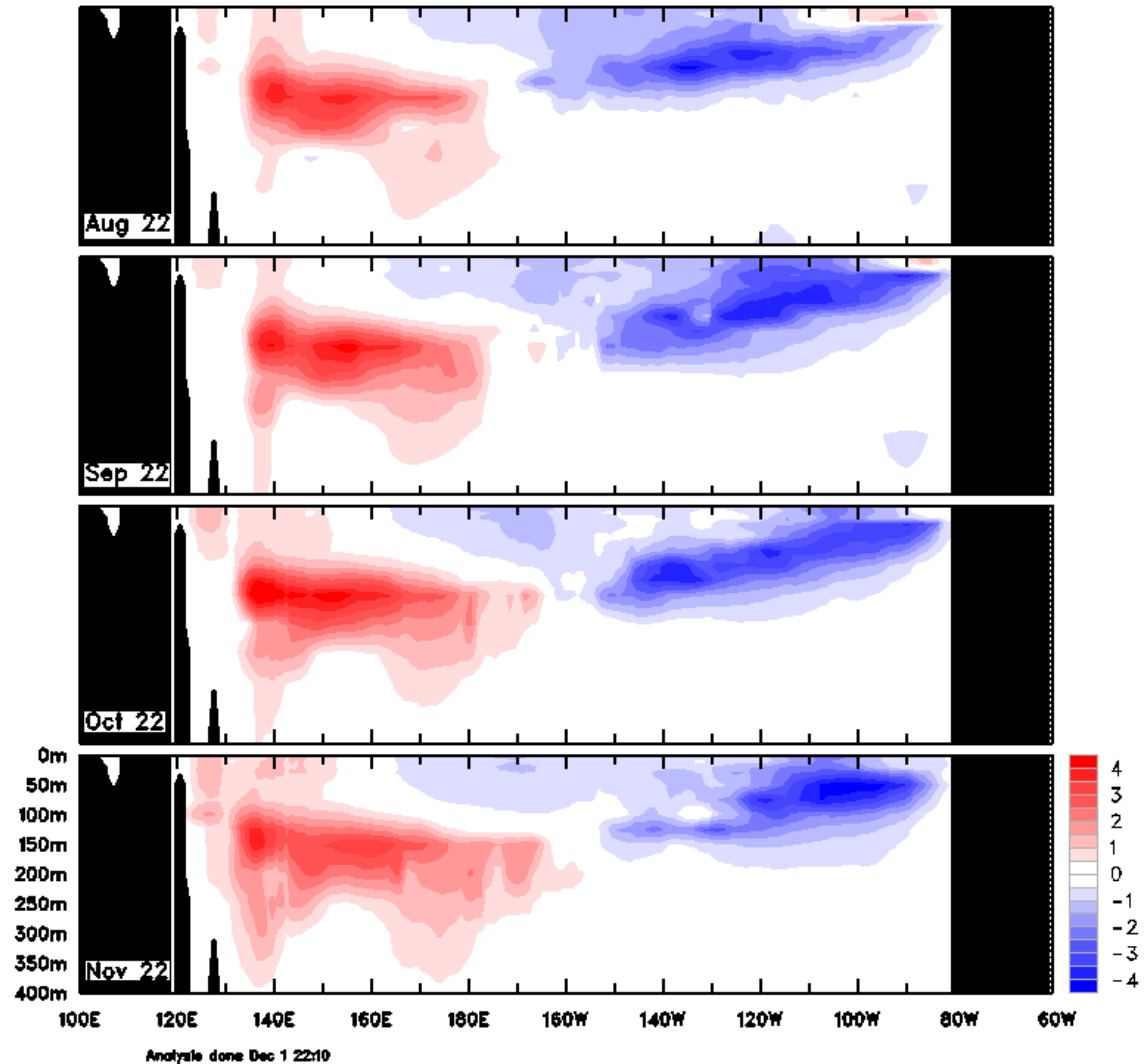


# Condições oceânicas

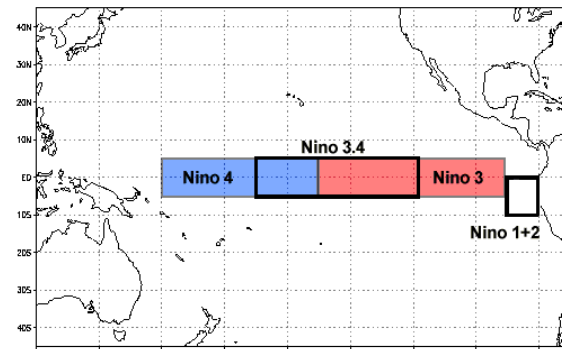
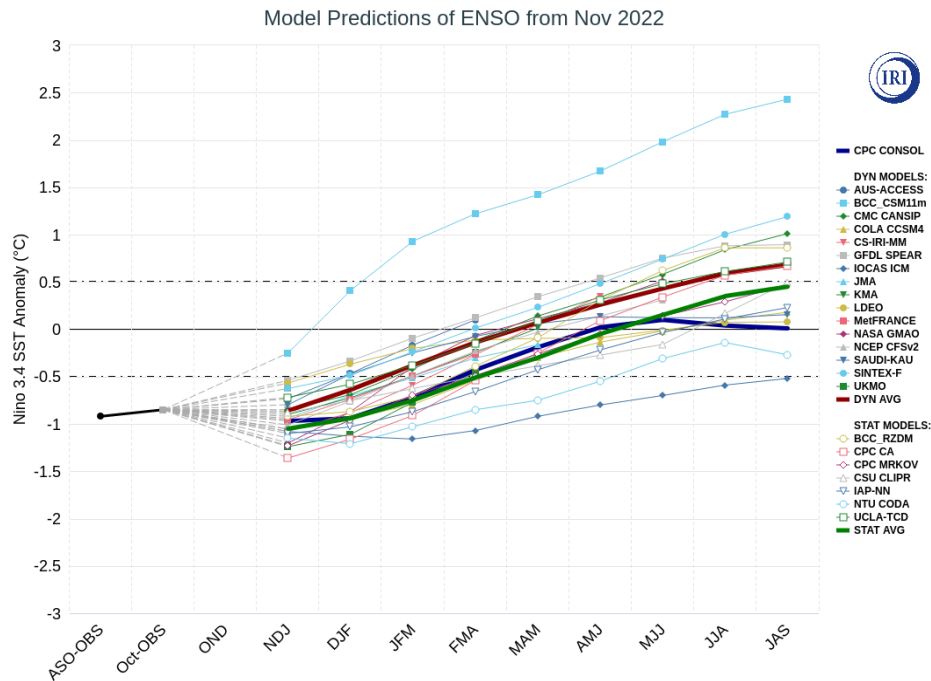
Anomalia de Temp. Superfície do Mar 27/11/2022 a 03/12/2022



Pacific Ocean Eq Anomaly  $\Delta=0.5^\circ\text{C}$

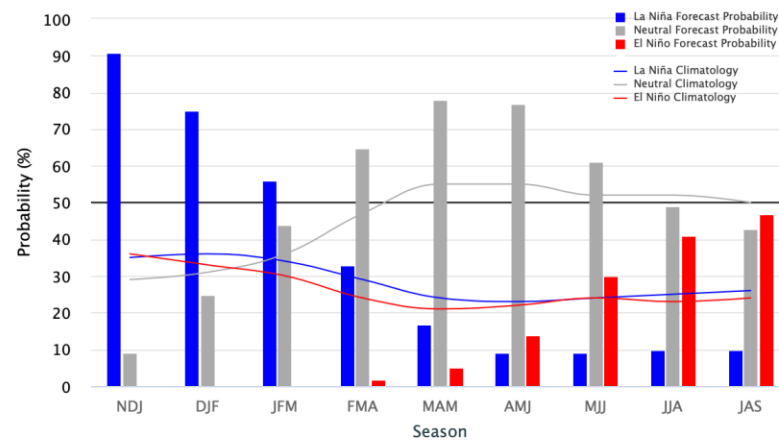


# Previsões do ENOS



Mid-November 2022 IRI Model-Based Probabilistic ENSO Forecasts

ENSO state based on NINO3.4 SST Anomaly  
Neutral ENSO: -0.5 °C to 0.5 °C

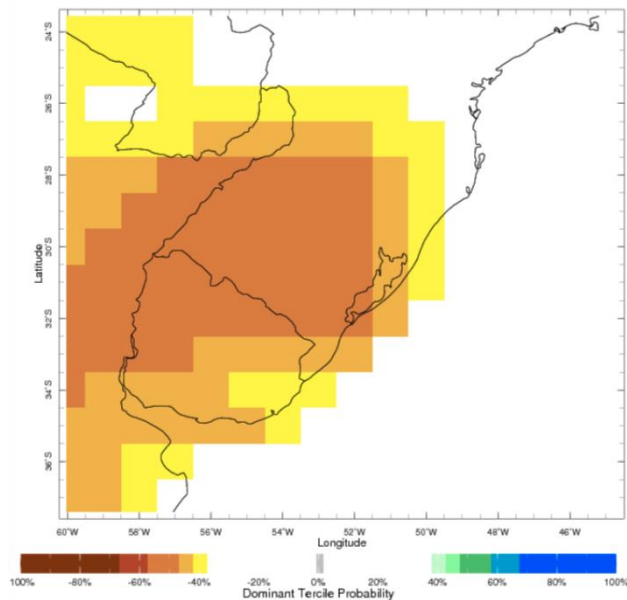




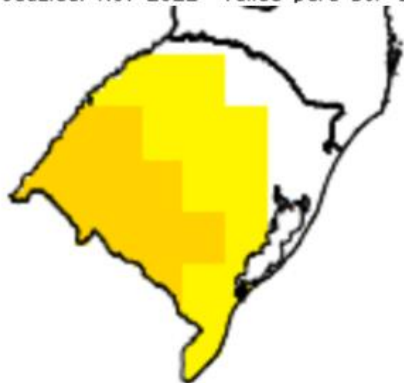
# Previsões sazonais

## Precipitação (probabilística)

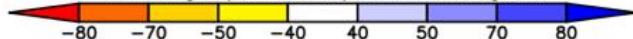
Dec 2022 - Feb 2023 IRI Seasonal Precipitation Forecast issued Nov 2022



Multi-modelo CPTEC/INMET/FUNCEME  
Probab. tercil mais provavel: Precip. (%)  
Produzida: Nov 2022 Valida para DJF 2022



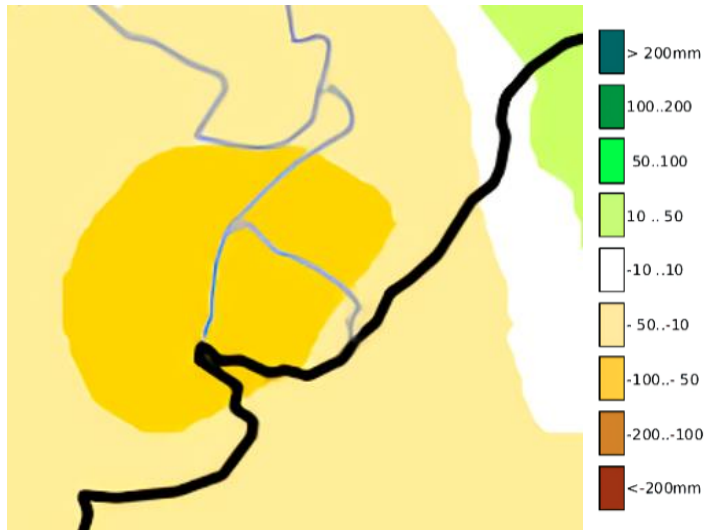
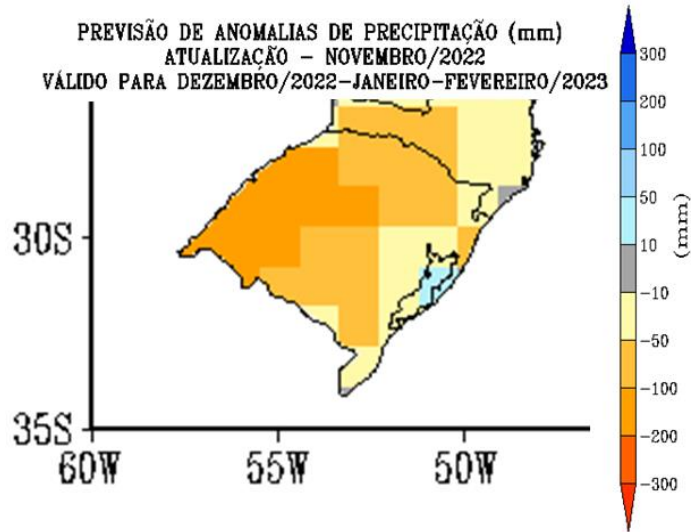
BRANCO: Igual probabilidade para as tres categorias.



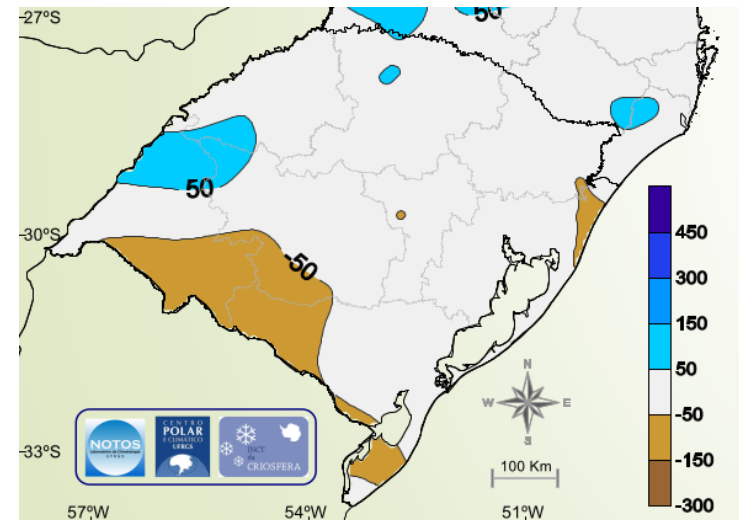
C3S

# Previsões sazonais

## Precipitação (mm)

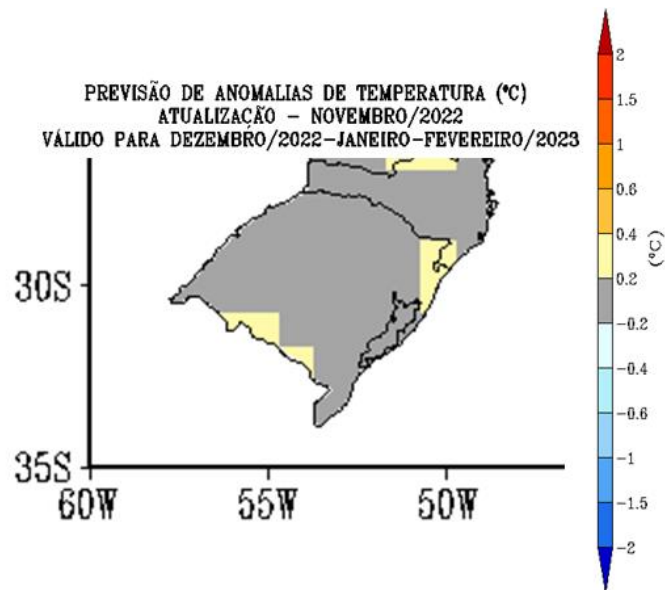


MoReClima-SUL

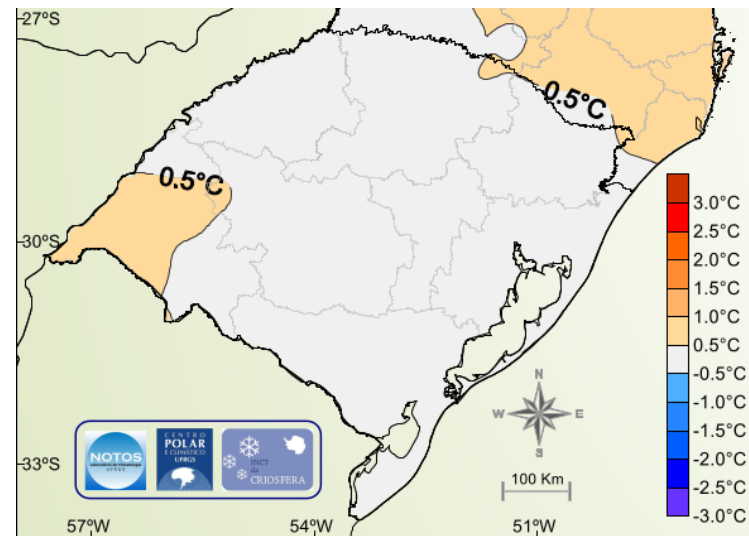


# Previsões sazonais

## Temperatura (°C)



MoReClima-SUL



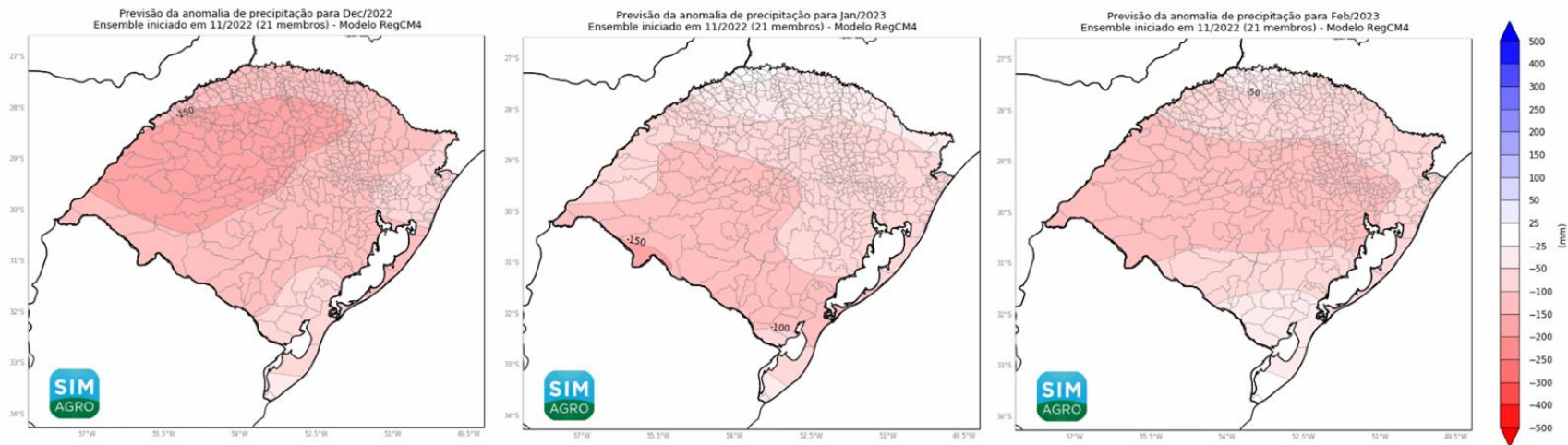
C3S



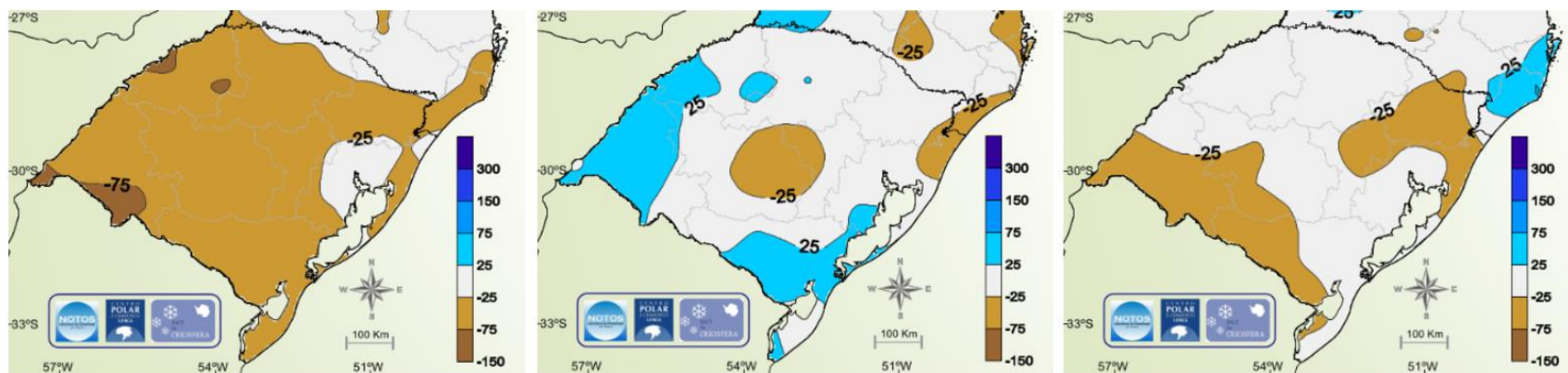
# Previsões mensais

## Precipitação (mm)

RegCM4

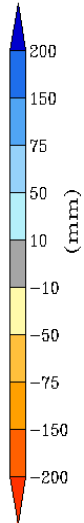
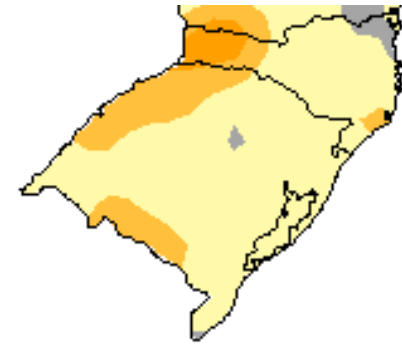
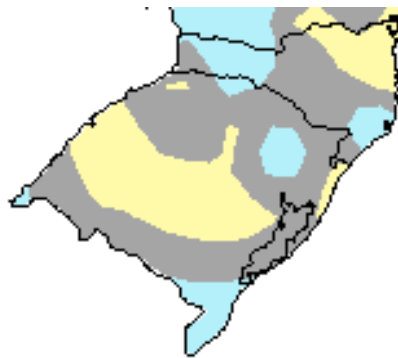
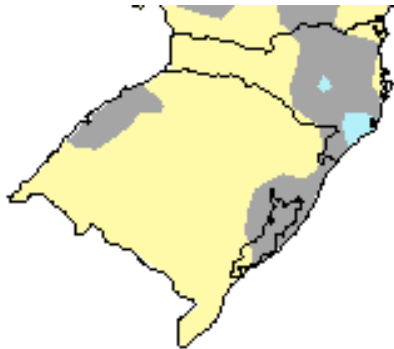


MoReClima-SUL

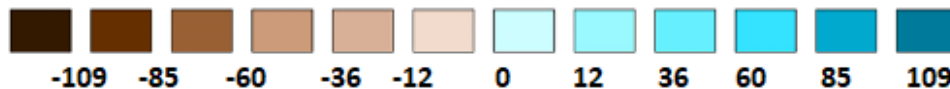
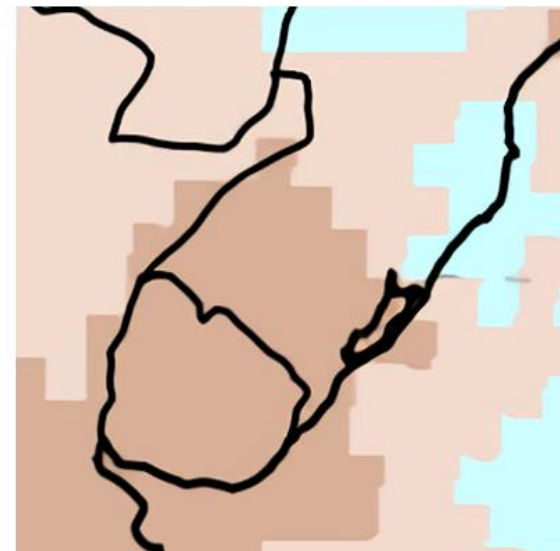
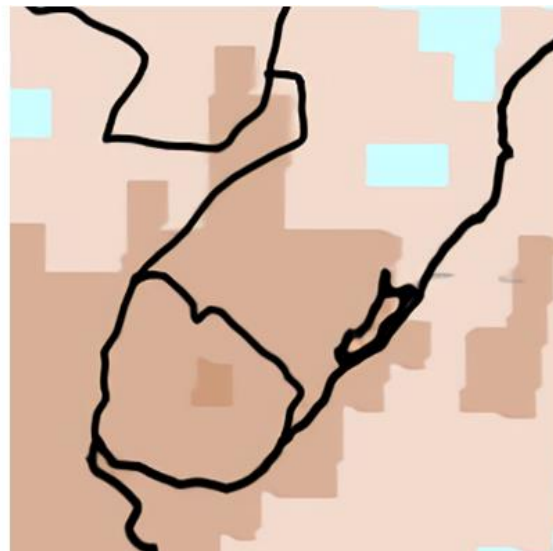
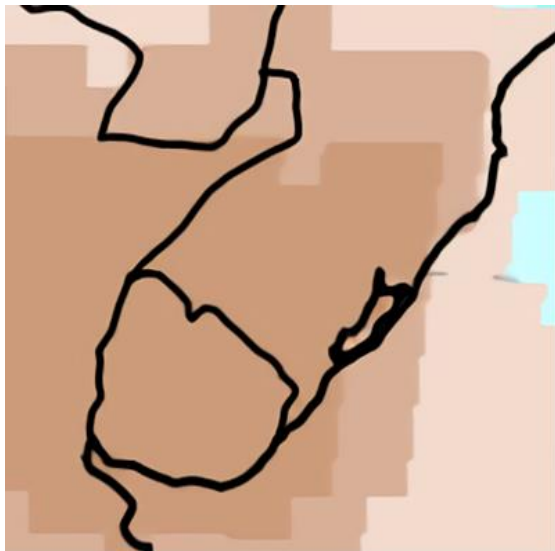


# Previsões mensais- precipitação (mm)

INMET

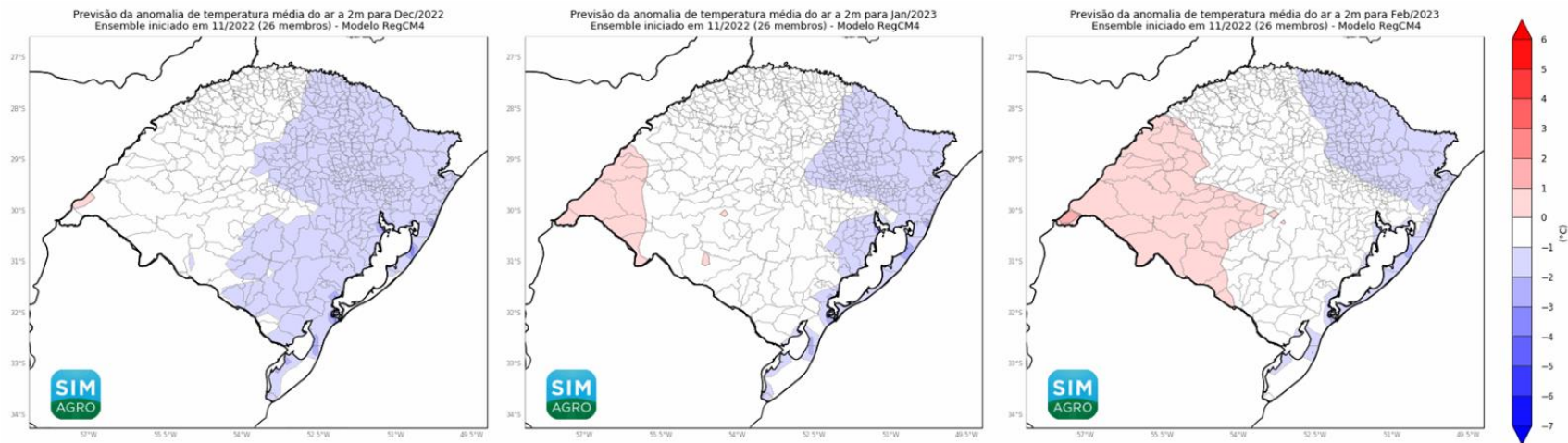


APCC

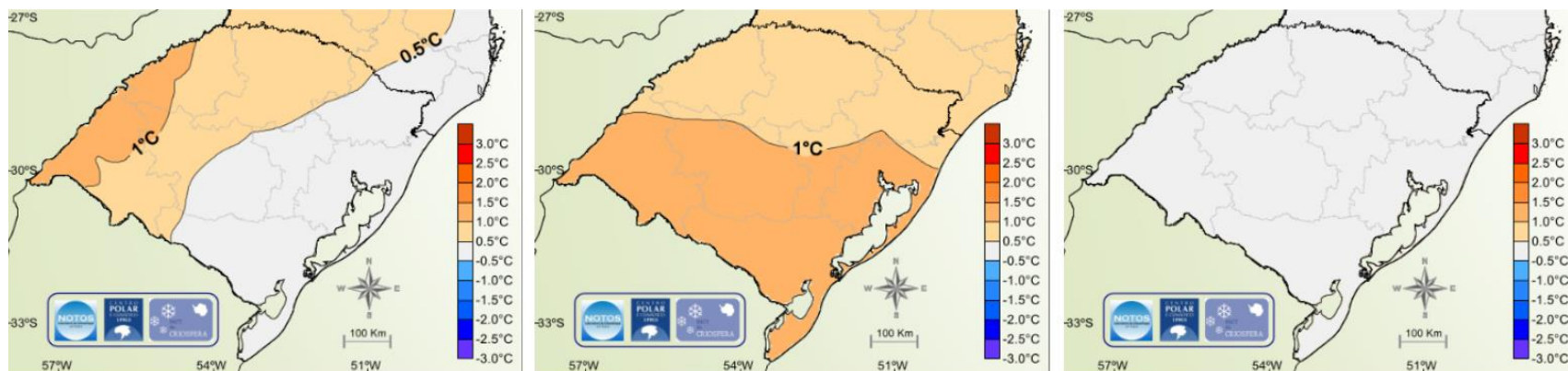


# Previsões mensais – Temperatura (°C)

## RegCM4

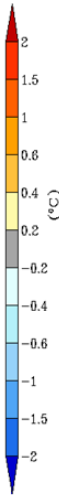
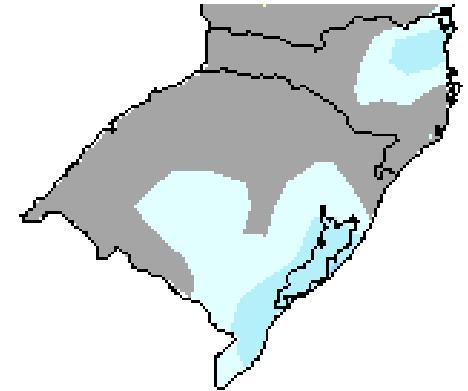
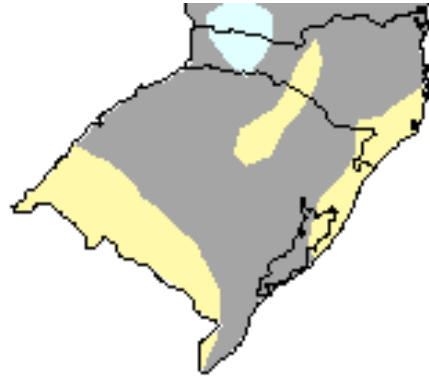
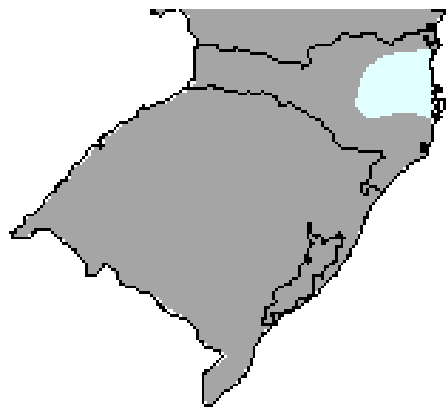


## MoReClima-SUL

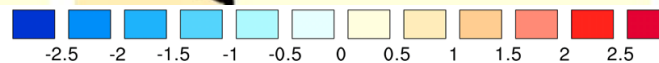
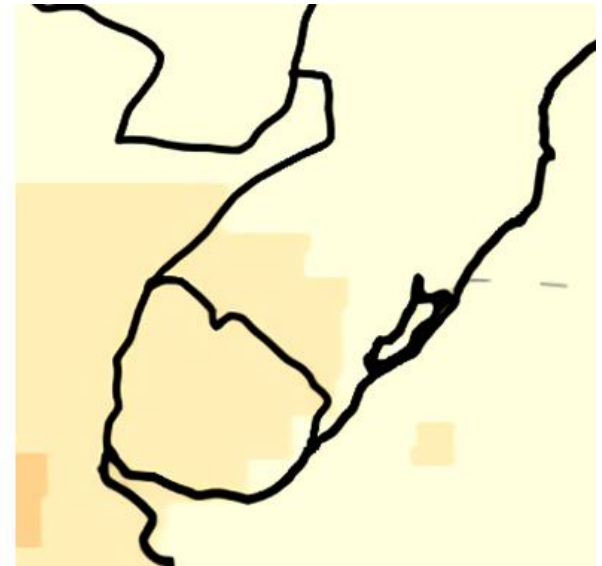
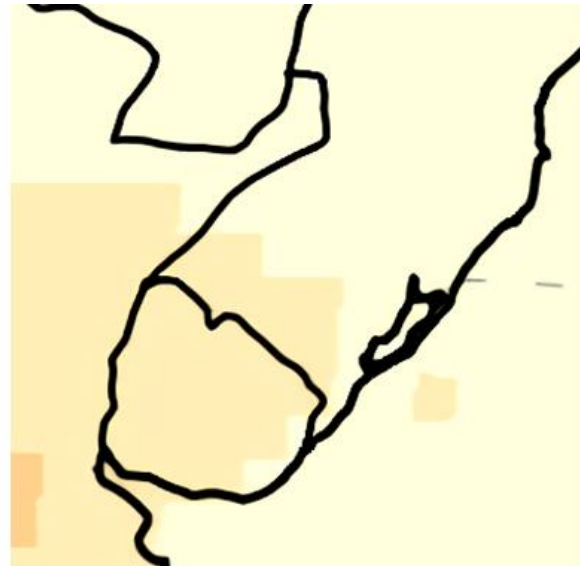
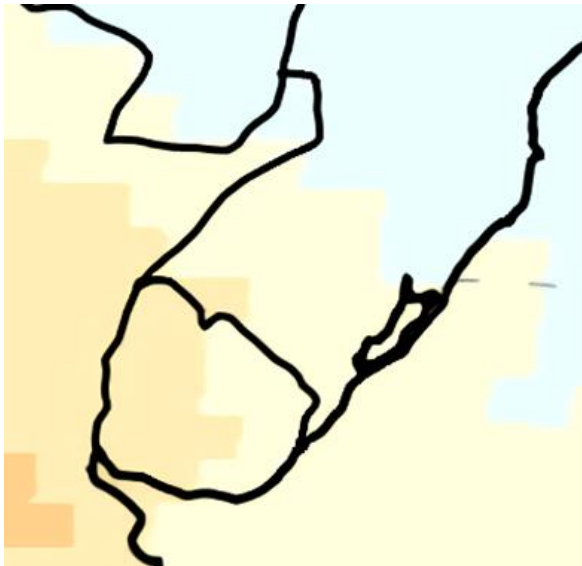


# Previsões mensais – Temperatura (°C)

INMET



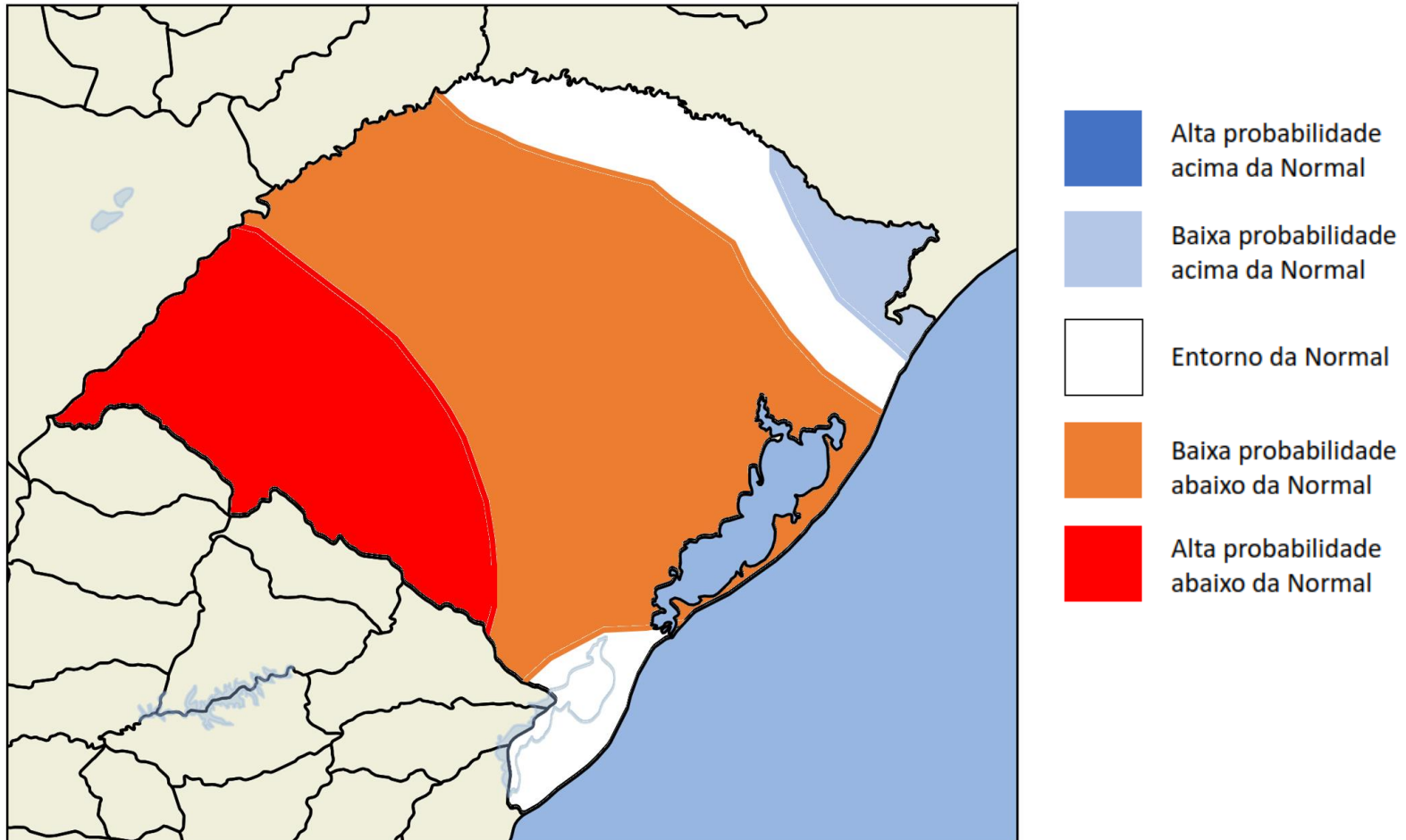
APCC





# Previsão por consenso

## Precipitação (DJF-2022/23)



# Previsão por consenso

## Temperatura (DJF-2022/23)

