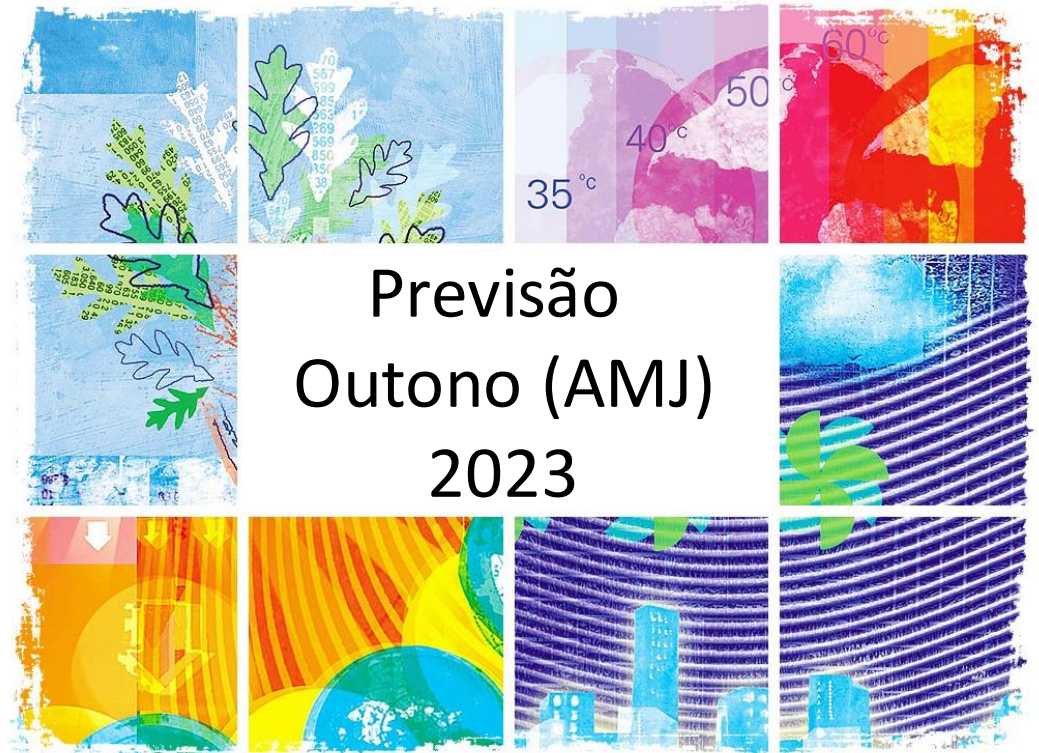


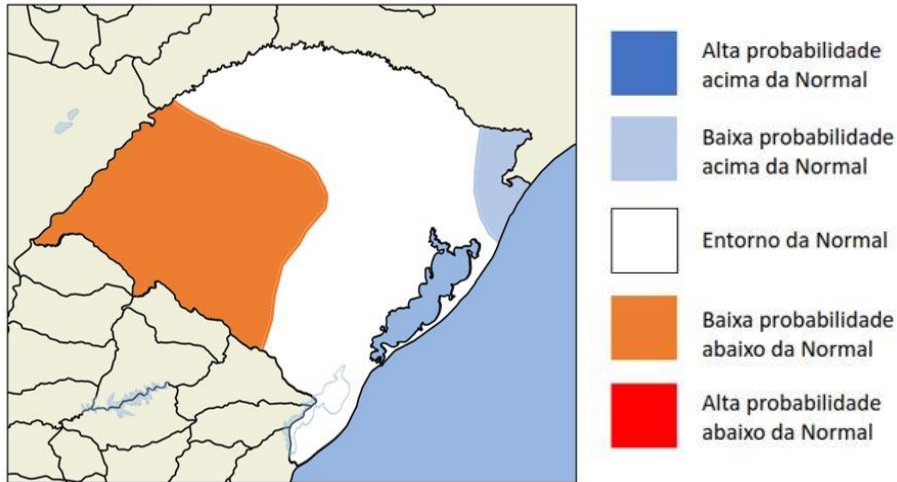
VIII Reunião Climática Mensal



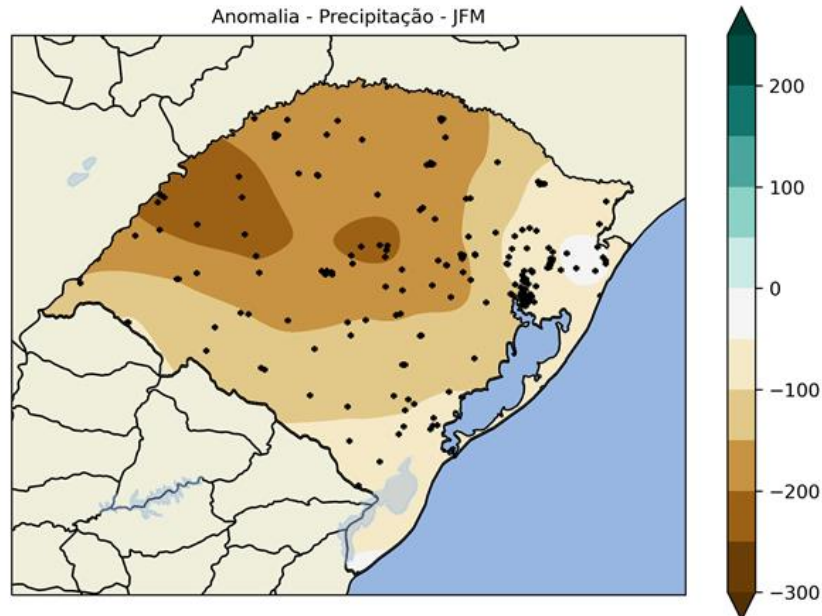
Verificação da previsão para JFM

Previsão por consenso realizada em Dezembro de 2022

Precipitação



Observado:

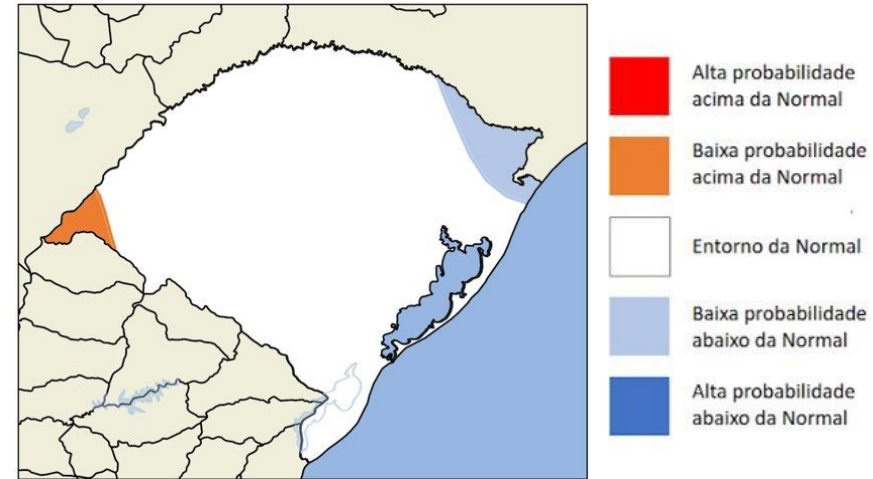


Verificação da previsão para JFM

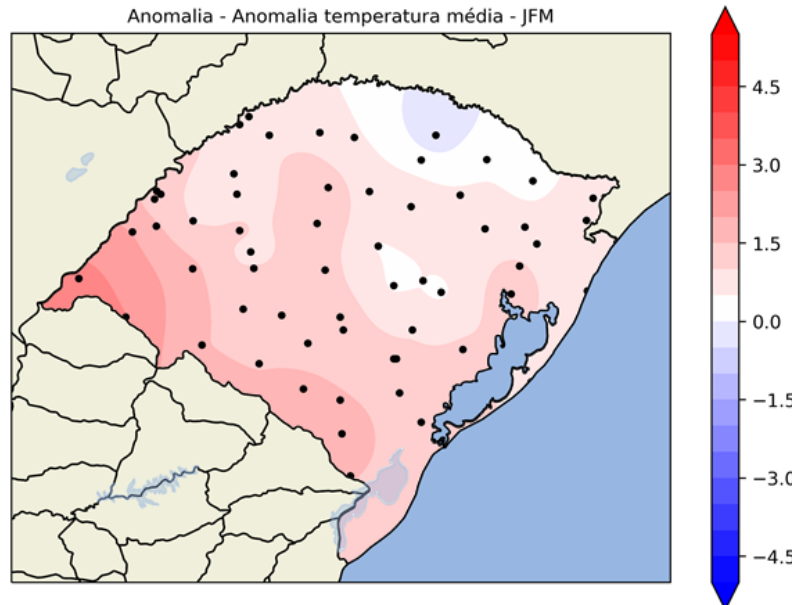
Previsão por consenso realizada em Dezembro de 2022

Temperatura do ar

Previsto:

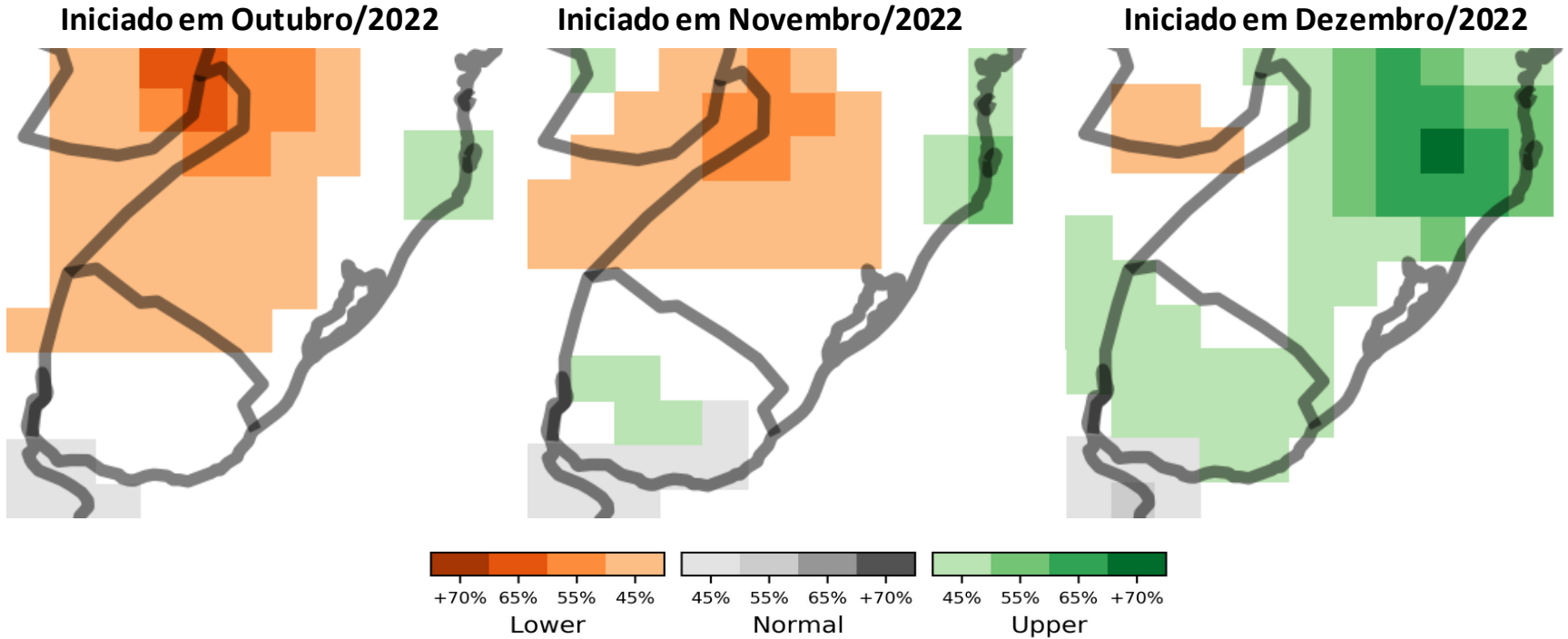


Observado:

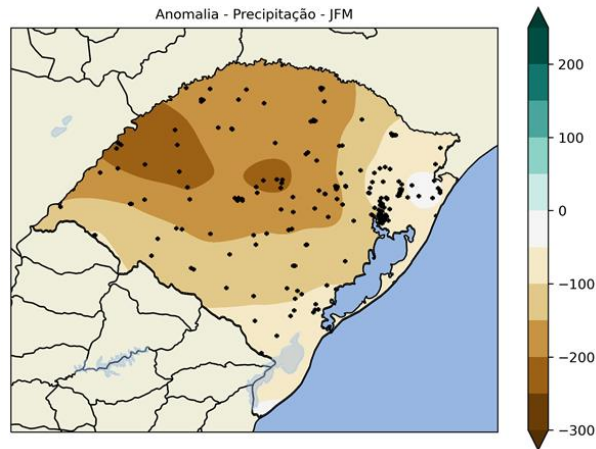


Verificação dos modelos por tempo de antecedência

Anomalia de Precipitação sazonal NMME-CIMA (JFM/2023)



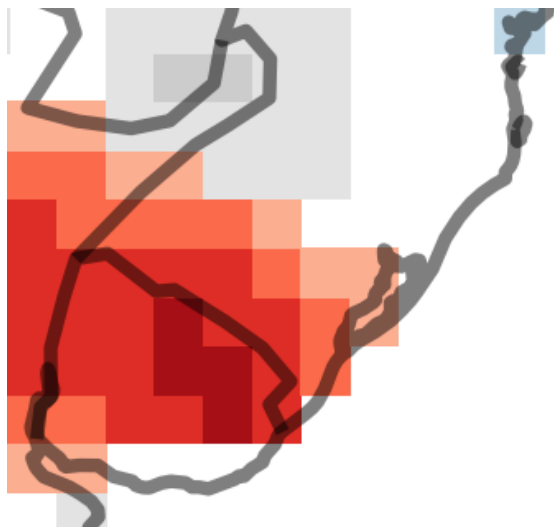
Observado:



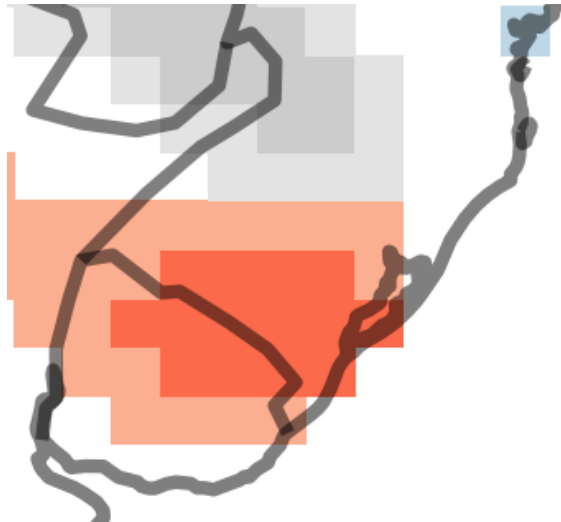
Verificação dos modelos por tempo de antecedência

Anomalia de Temperatura sazonal NMME-CIMA (JFM/2023)

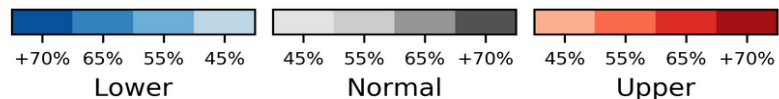
Iniciado em Outubro/2022



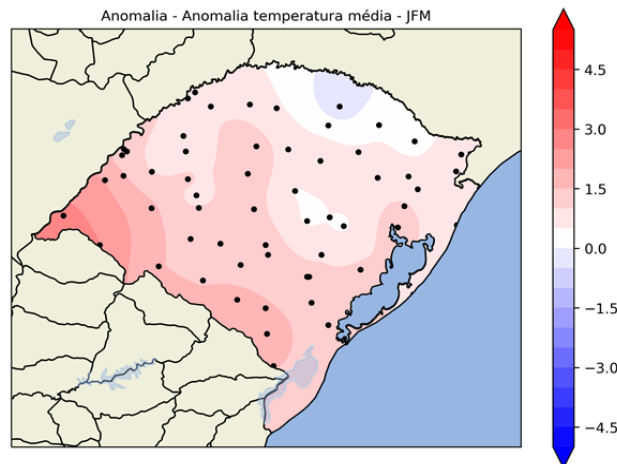
Iniciado em Novembro/2022



Iniciado em Dezembro/2022



Observado:

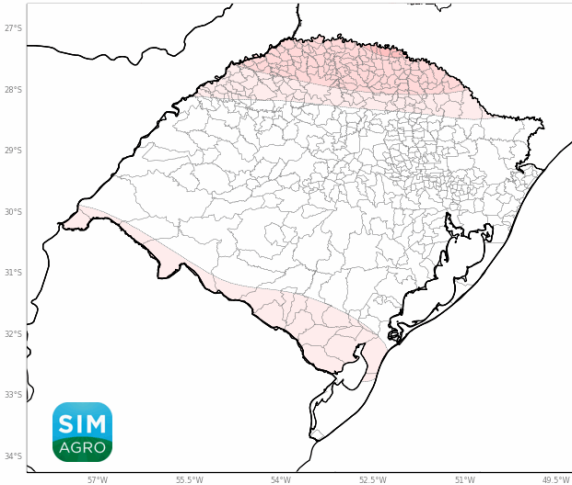


Verificação dos modelos por tempo de antecedência

Anomalia de Precipitação RegCM4 do SIMAGRO (Março/2023)

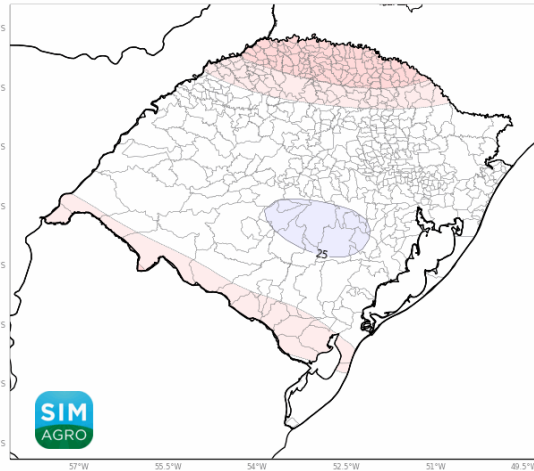
Iniciado em Dezembro/2022

Previsão da anomalia de precipitação para Mar/2023
Ensemble iniciado em 12/2022 (21 membros) - Modelo RegCM4



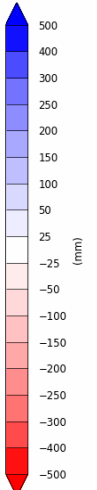
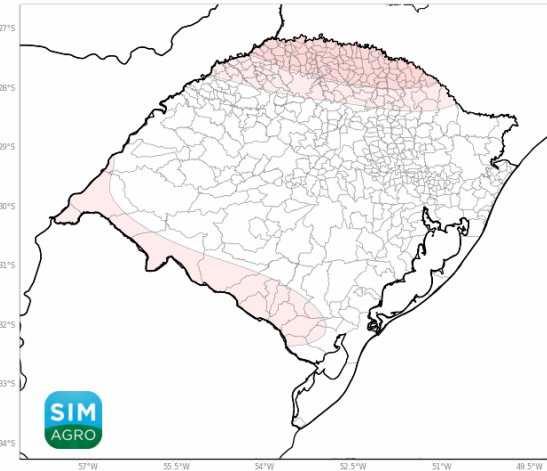
Iniciado em Janeiro/2023

Previsão da anomalia de precipitação para Mar/2023
Ensemble iniciado em 01/2023 (21 membros) - Modelo RegCM4

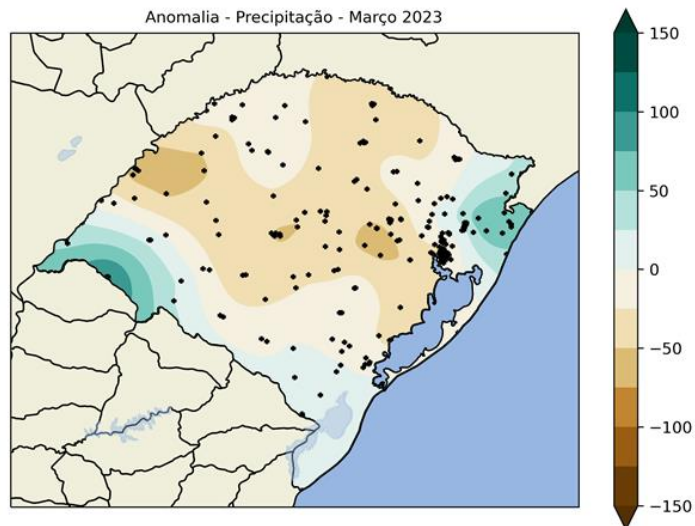


Iniciado em Fevereiro/2023

Previsão da anomalia de precipitação para Mar/2023
Ensemble iniciado em 02/2023 (21 membros) - Modelo RegCM4



Observado:

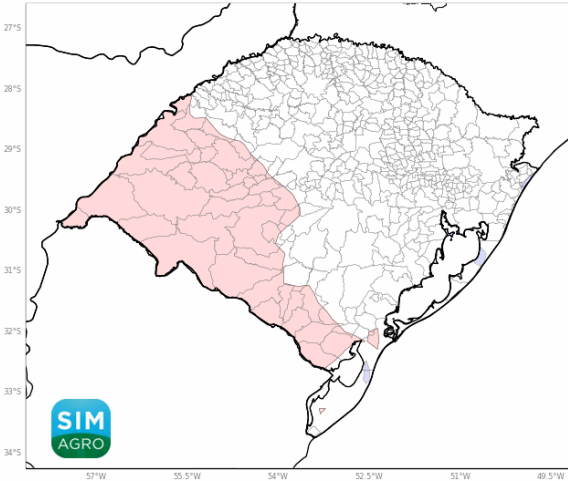


Verificação dos modelos por tempo de antecedência

Anomalia de Temperatura RegCM4 do SIMAGRO (Março/2023)

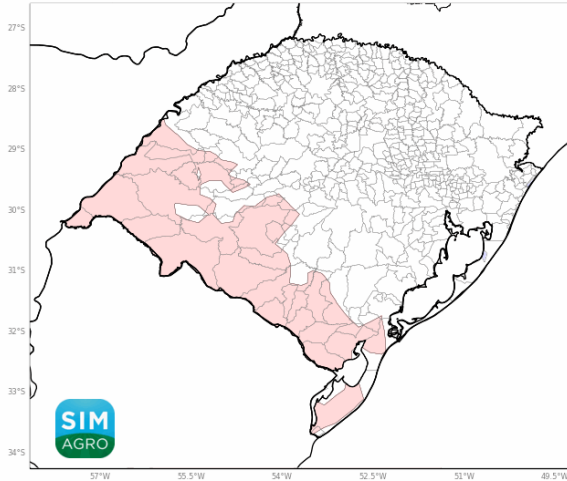
Iniciado em Dezembro/2022

Previsão da anomalia de temperatura média do ar a 2m para Mar/2023
Ensemble iniciado em 12/2022 (26 membros) - Modelo RegCM4



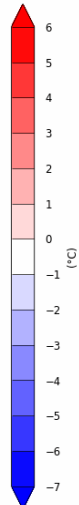
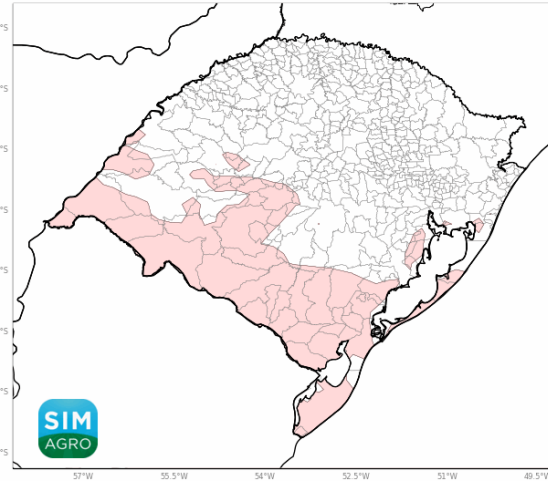
Iniciado em Janeiro/2023

Previsão da anomalia de temperatura média do ar a 2m para Mar/2023
Ensemble iniciado em 01/2023 (26 membros) - Modelo RegCM4

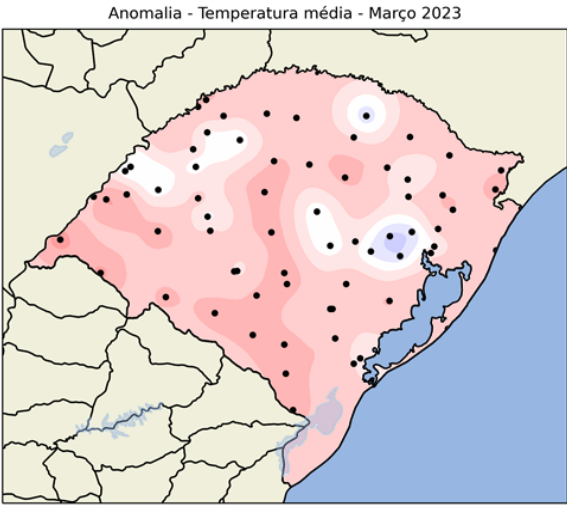


Iniciado em Fevereiro/2023

Previsão da anomalia de temperatura média do ar a 2m para Mar/2023
Ensemble iniciado em 02/2023 (26 membros) - Modelo RegCM4



Observado:



Verificação dos modelos por tempo de antecedência

Anomalia de Precipitação MoReClima-SUL (Março/2023)

Iniciado em Dezembro/2022



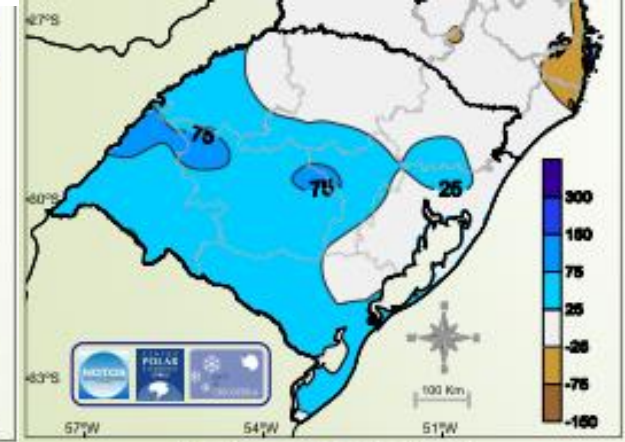
Desvio em milímetros (mm)
(Climatologia GPCC – 1981-2010)

Iniciado em Janeiro/2023



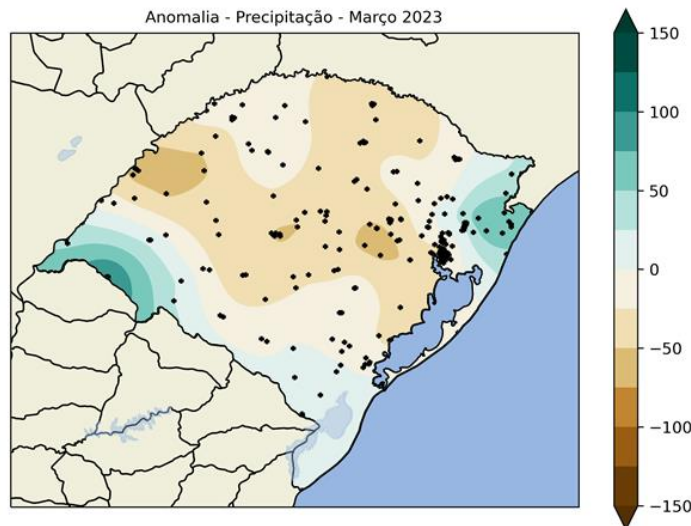
Desvio em milímetros (mm)
(Climatologia GPCC – 1981-2010)

Iniciado em Fevereiro/2023



Desvio em milímetros (mm)
(Climatologia GPCC – 1981-2010)

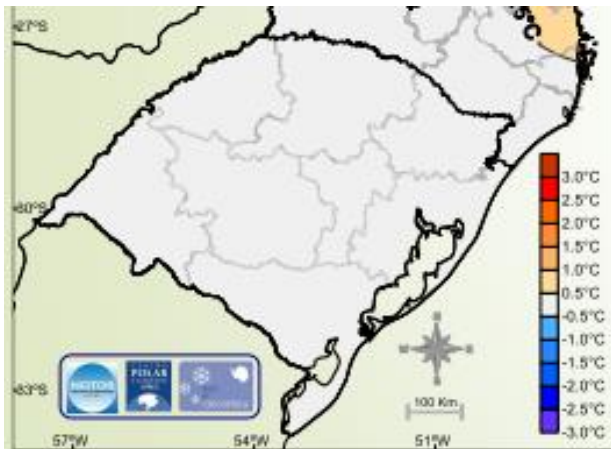
Observado:



Verificação dos modelos por tempo de antecedência

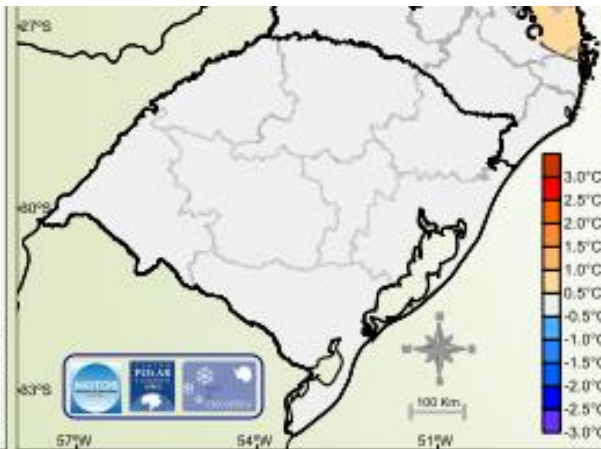
Anomalia de Temperatura MoReClima-SUL (Março/2023)

Iniciado em Dezembro/2022



Desvio em graus Celsius (°C)
(Climatologia CRU - 1981-2010)

Iniciado em Janeiro/2023



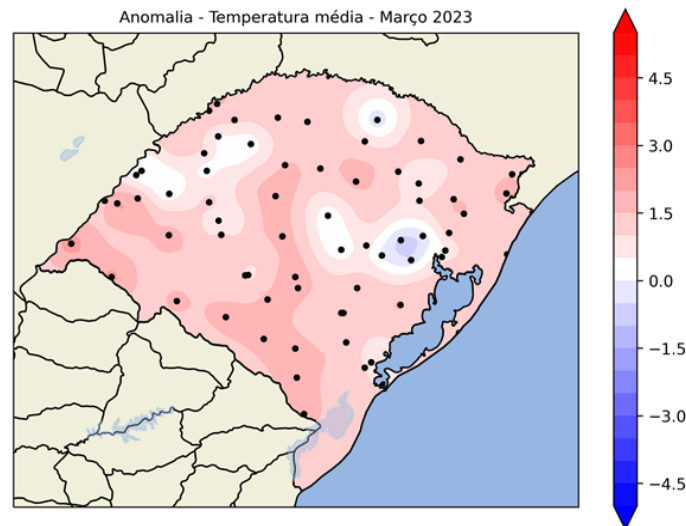
Desvio em graus Celsius (°C)
(Climatologia CRU - 1981-2010)

Iniciado em Fevereiro/2023



Desvio em graus Celsius (°C)
(Climatologia CRU - 1981-2010)

Observado:



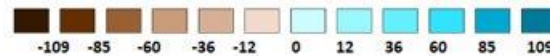
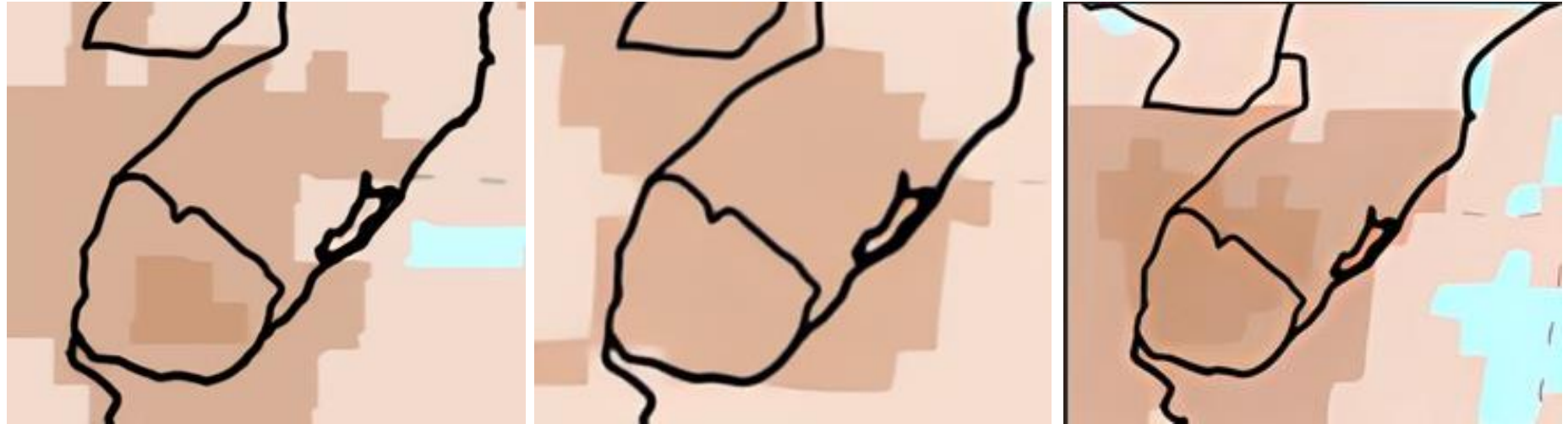
Verificação dos modelos por tempo de antecedência

Anomalia de Precipitação APCC (Março/2023)

Iniciado em Dezembro/2022

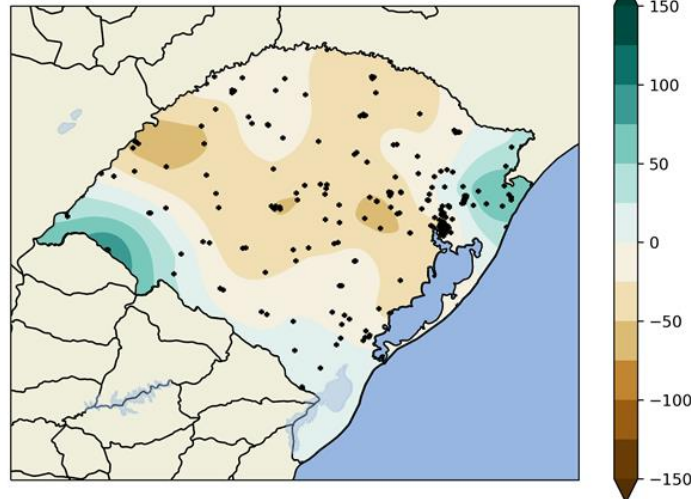
Iniciado em Janeiro/2023

Iniciado em Fevereiro/2023



Anomalia - Precipitação - Março 2023

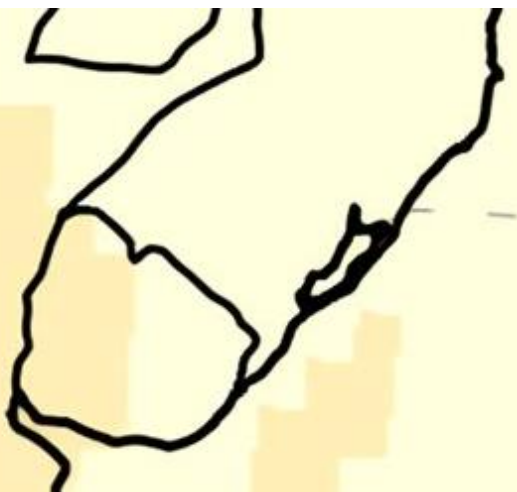
Observado:



Verificação dos modelos por tempo de antecedência

Anomalia de Temperatura APCC (Março/2023)

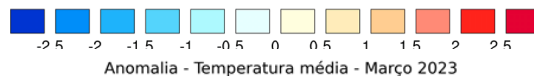
Iniciado em Dezembro/2022



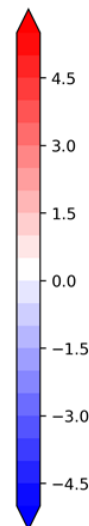
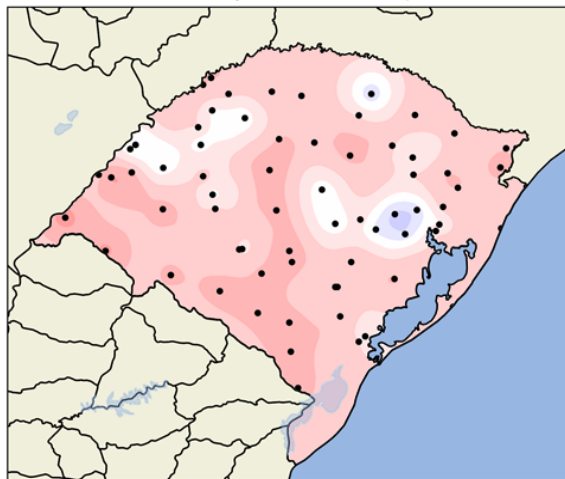
Iniciado em Janeiro/2023



Iniciado em Fevereiro/2023

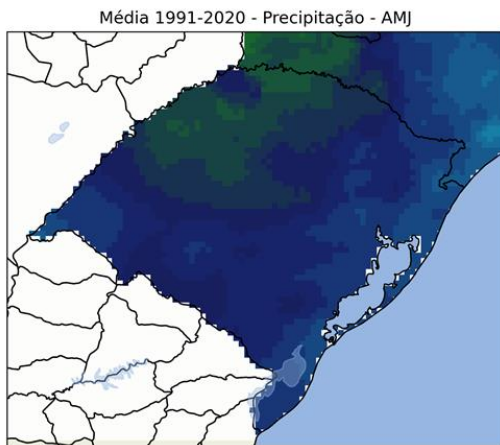


Observado:

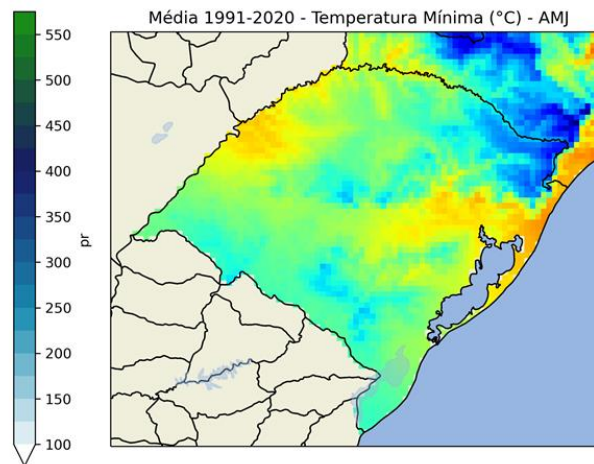


Climatologia de AMJ

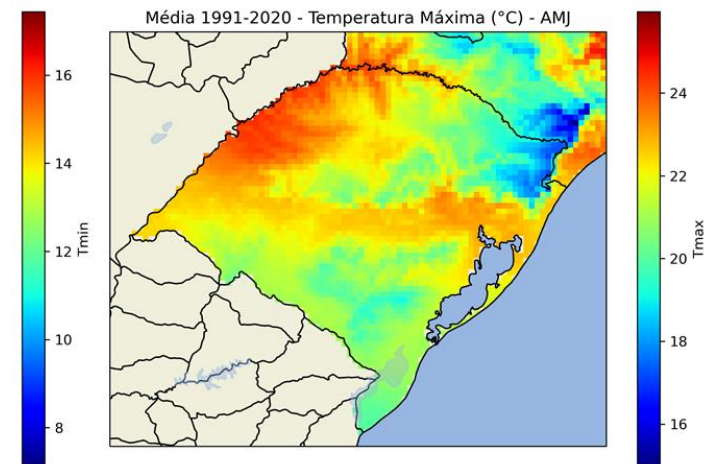
- Neste trimestre o noroeste do RS volta a ser o setor do estado com maiores acumulados de chuva na média (> 450mm). Apenas da variação meridional ainda existir a Campanha tem média de > 350 mm.
- As médias de temperatura mínima e máxima são mais altas no noroeste do RS e na faixa central do estado até o litoral norte;



Precipitação



Temperatura mínima



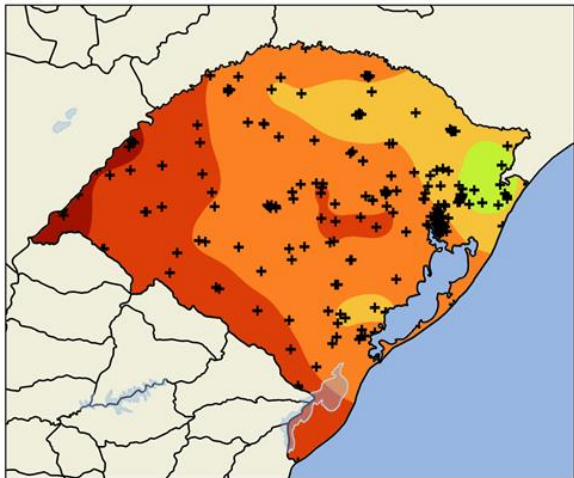
Temperatura máxima

Condições observadas em JFM/2023

Valores absolutos

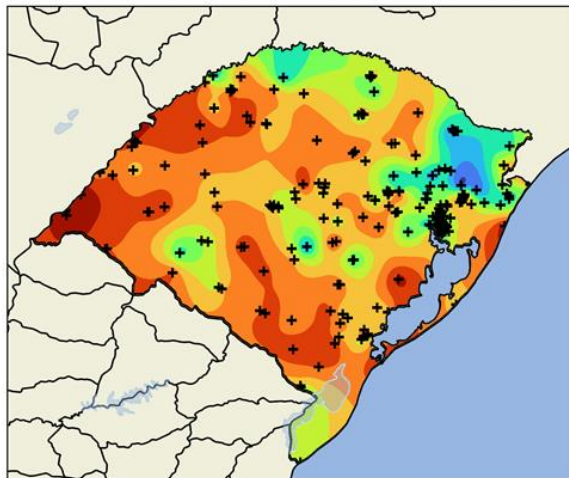
Janeiro

Precipitação acumulada - JANEIRO 2023



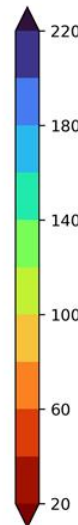
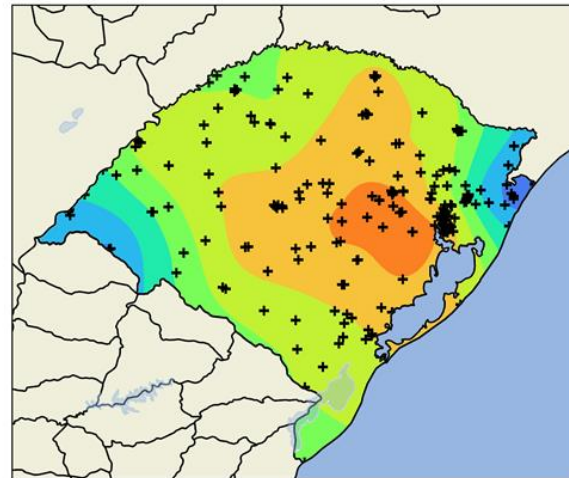
Fevereiro

Precipitação acumulada - FEVEREIRO 2023



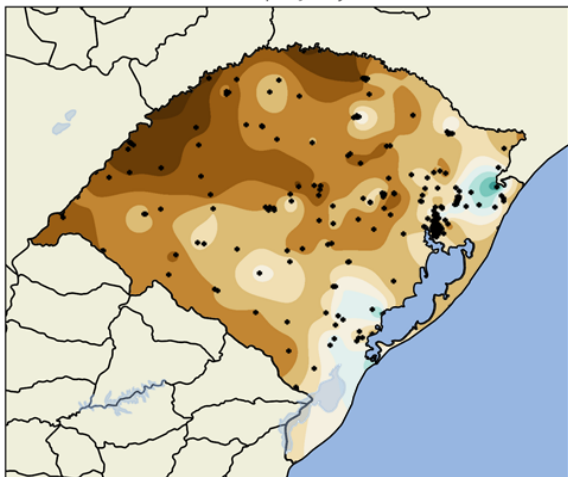
Março

Precipitação acumulada - MARÇO 2023

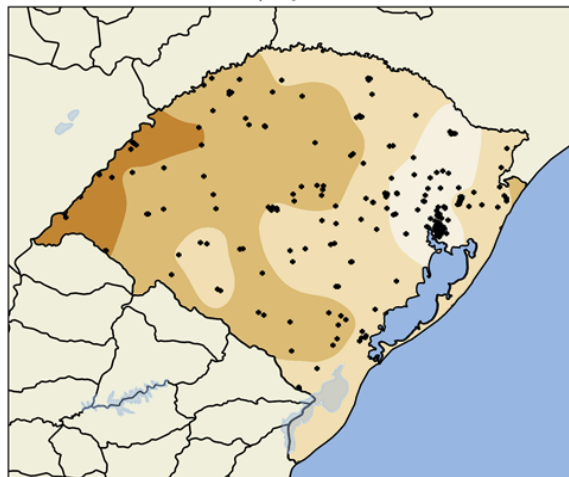


Anomalias

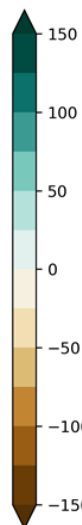
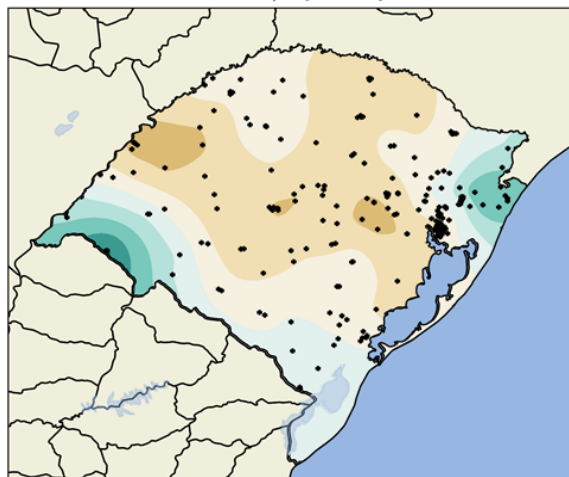
Anomalia - Precipitação - Janeiro 2023



Anomalia - Precipitação - Fevereiro 2023



Anomalia - Precipitação - Março 2023

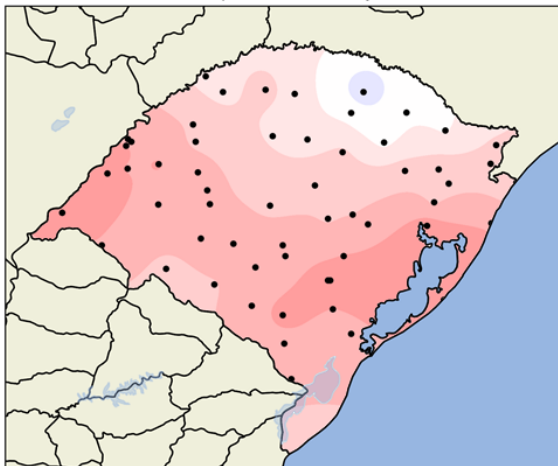


Condições observadas em JFM/2023

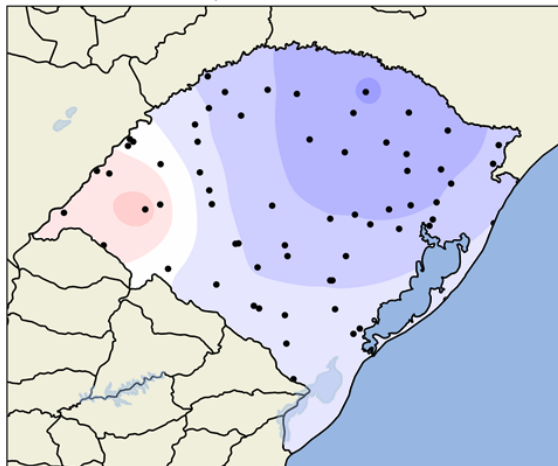
Anomalias

Tmin

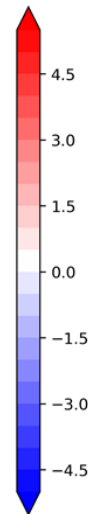
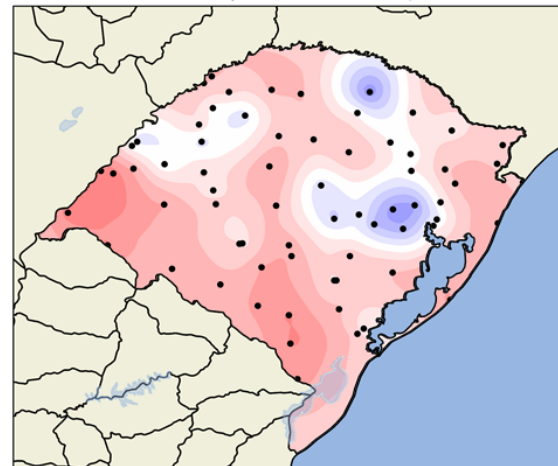
Anomalia - Temperatura mínima - Janeiro 2023



Anomalia - Temperatura mínima - Fevereiro 2023

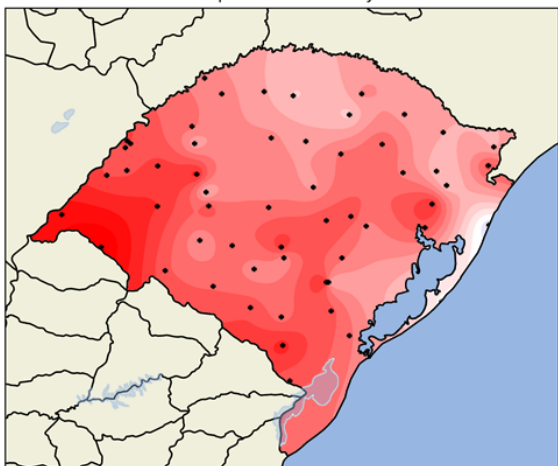


Anomalia - Temperatura mínima - Março 2023

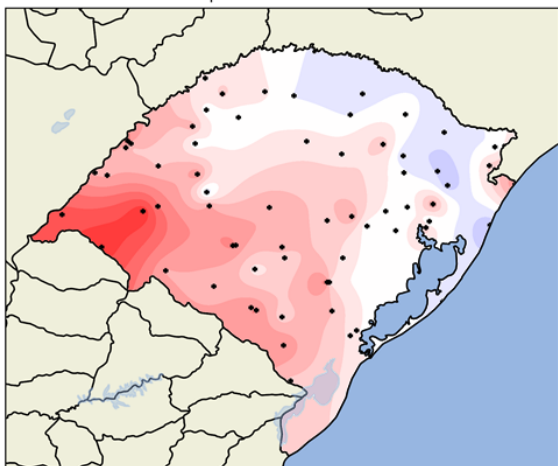


Tmax

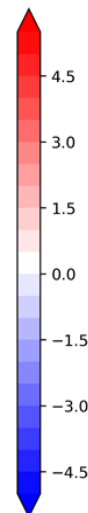
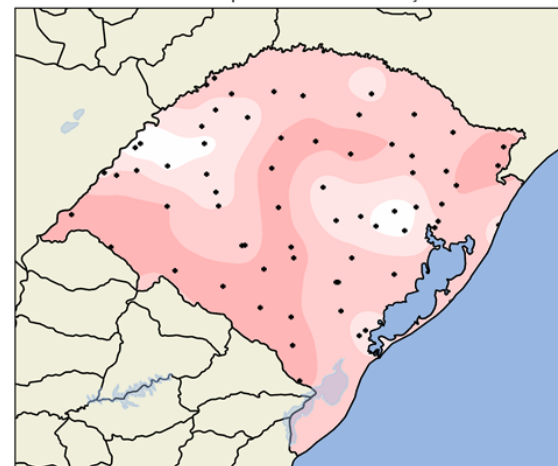
Anomalia - Temperatura máxima - Janeiro 2023



Anomalia - Temperatura máxima - Fevereiro 2023



Anomalia - Temperatura máxima - Março 2023



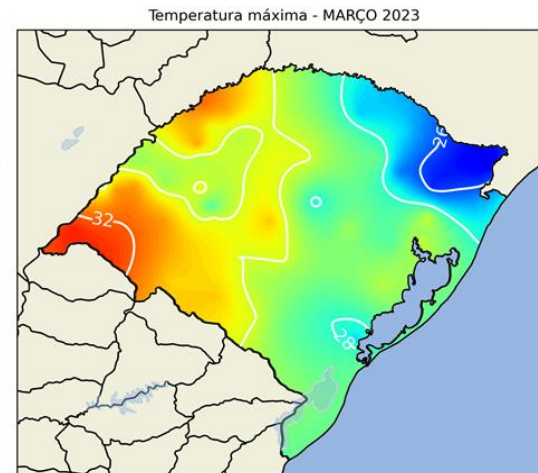
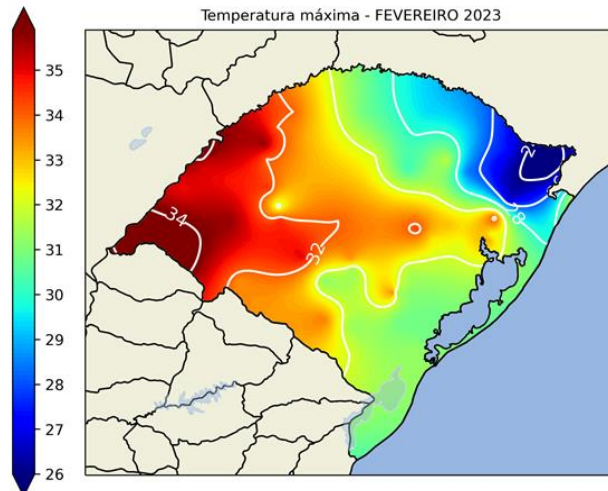
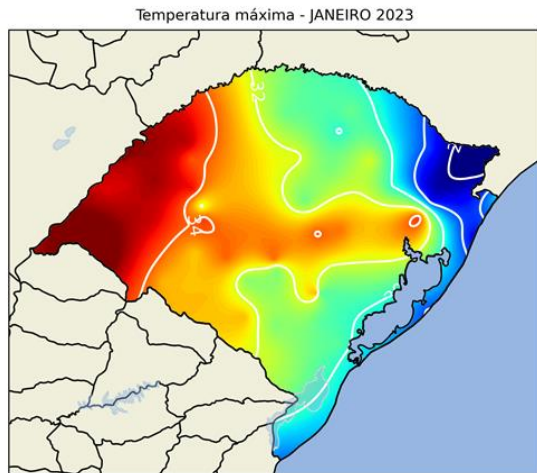
Condições observadas em JFM/2023

Janeiro

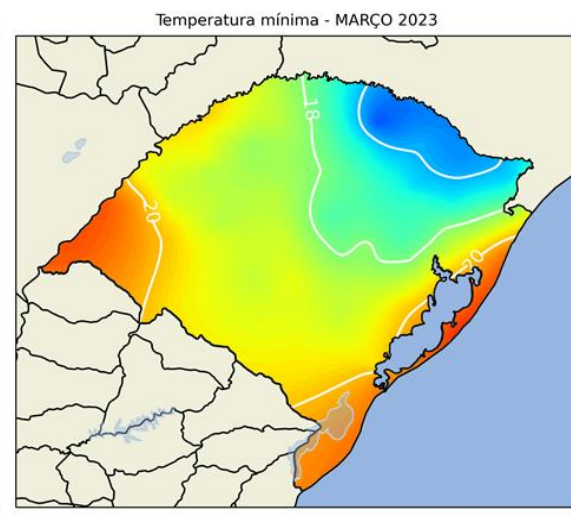
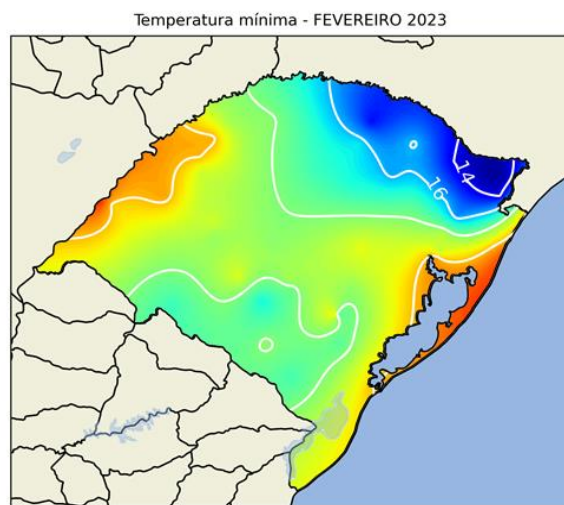
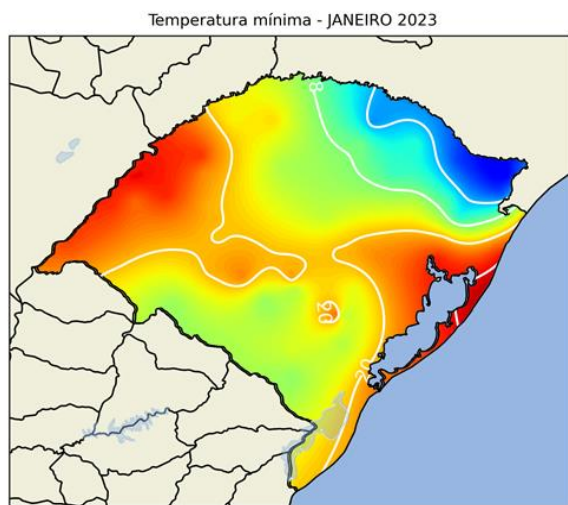
Fevereiro

Março

Tmax



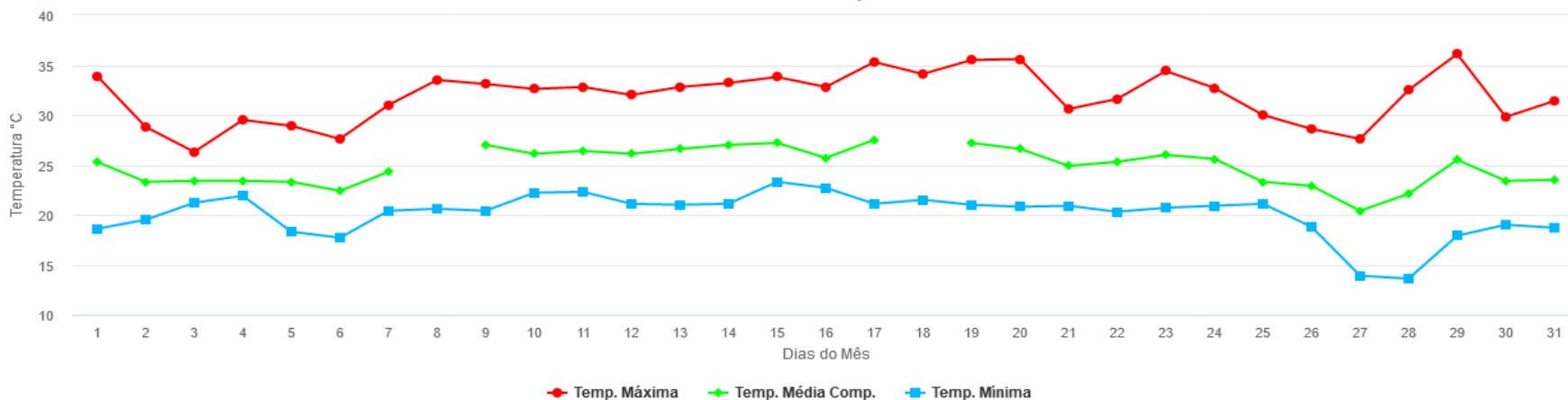
Tmin



Condições observadas em Mar/2023

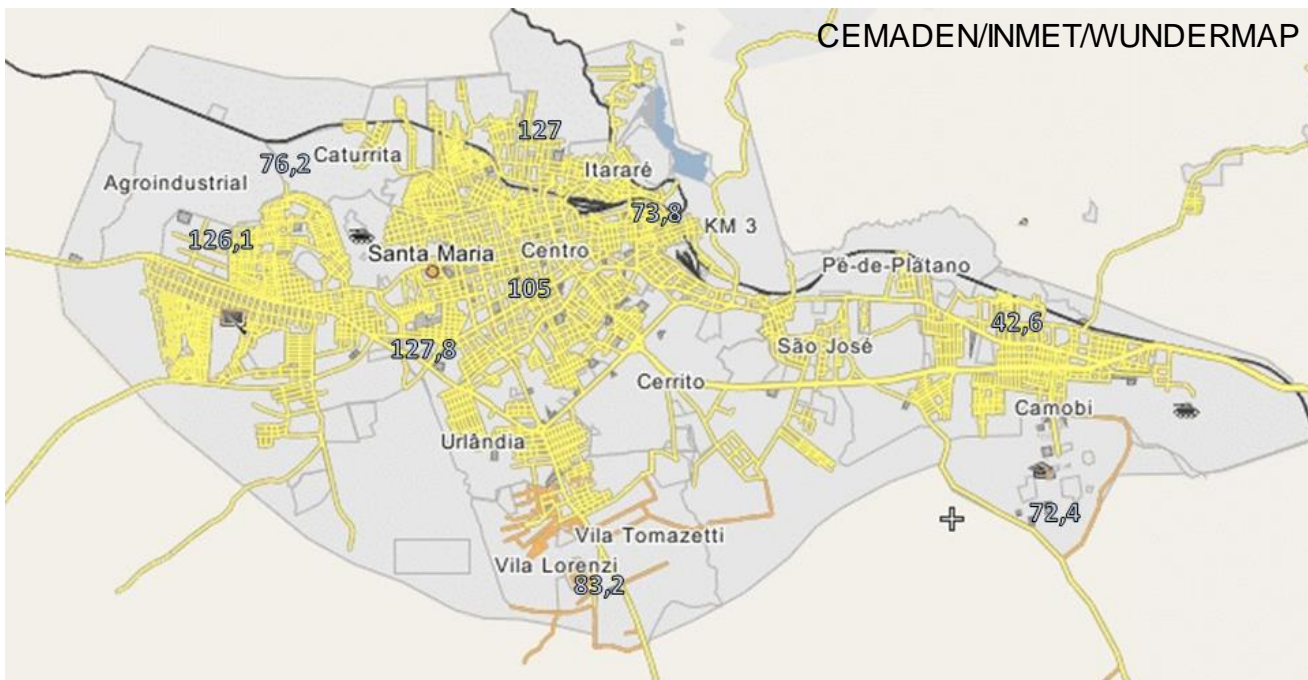
Instituto Nacional de Meteorologia - INMET

Temperaturas Diárias (Máxima, Média, Mínima) || Estação: SANTA MARIA (A803) - 03/2023



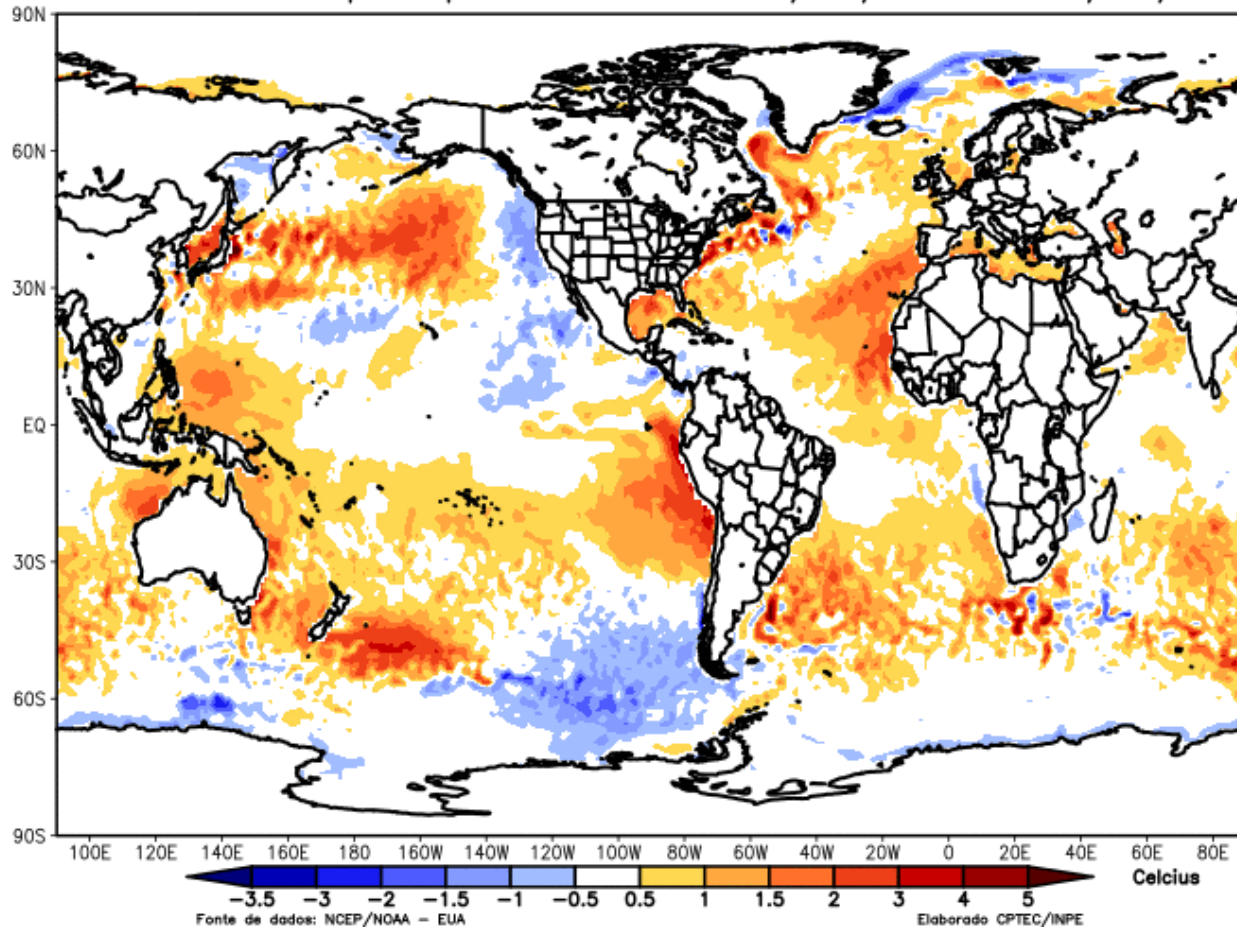
Highcharts.com

Precipitação mensal em Março - Santa Maria



Condições oceânicas

Anomalia de Temp. Superfície do Mar 26/03/2023 a 01/04/2023

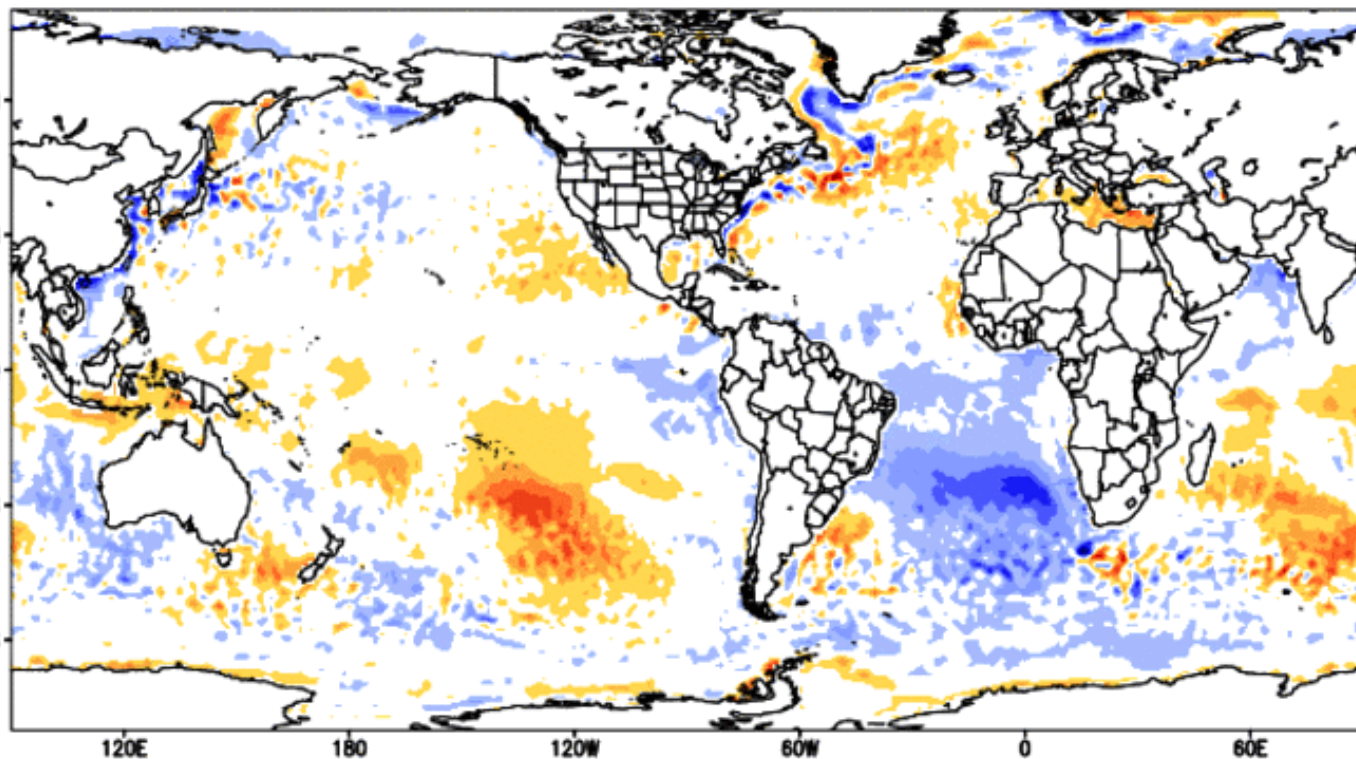


Condições oceânicas

Anor

90N
60N
30N
EQ
30S
60S
90S
100

Tendência Semanal de Temperatura da Superfície do Mar
diferença entre as semanas 22/03/2023 e 29/03/2023

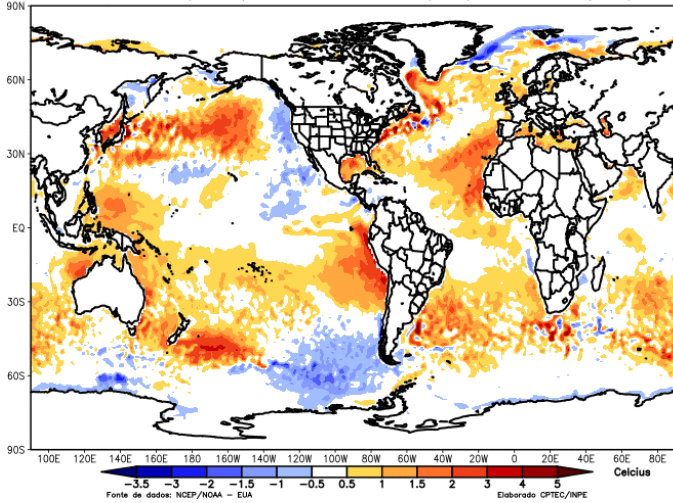


Fonte de dados: NCEP/NOAA - EUA

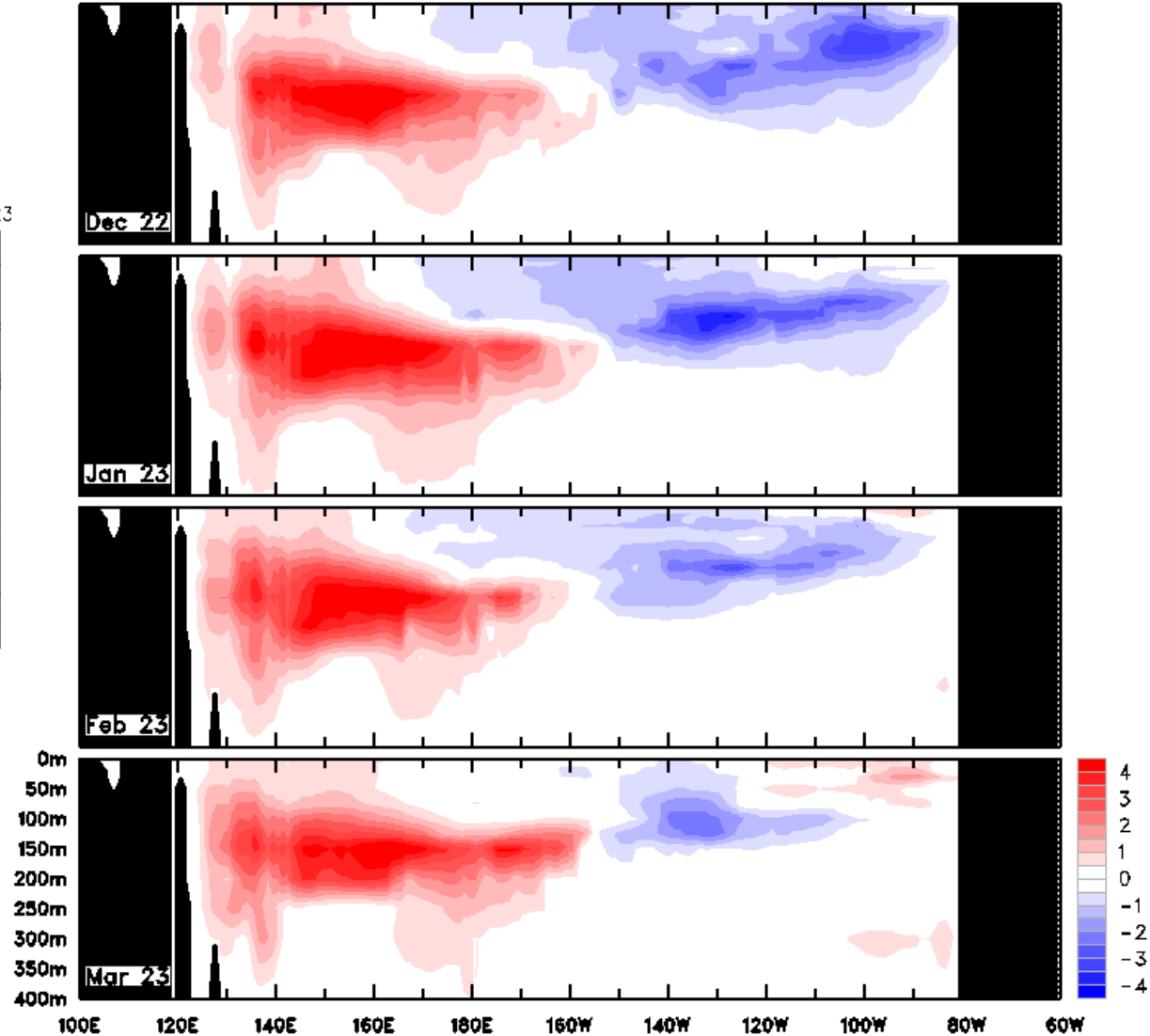
Elaboracao: CPTEC/INPE

Condições oceânicas

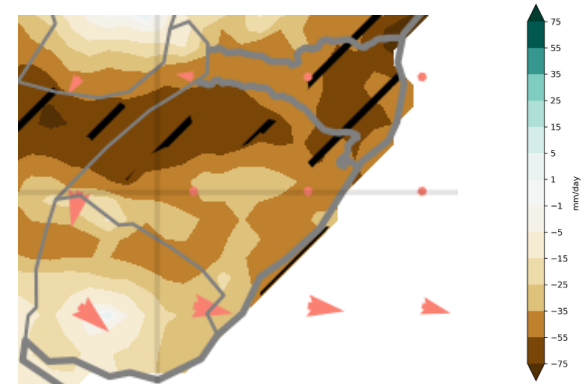
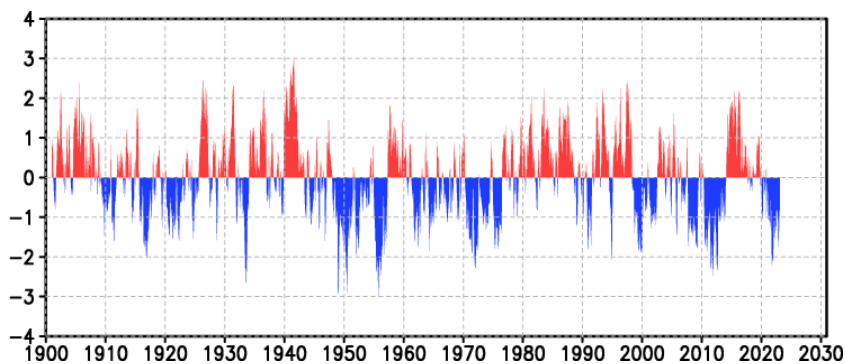
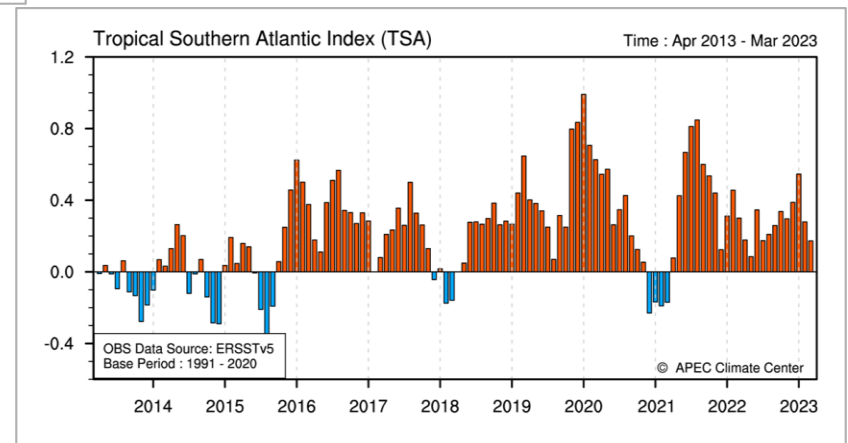
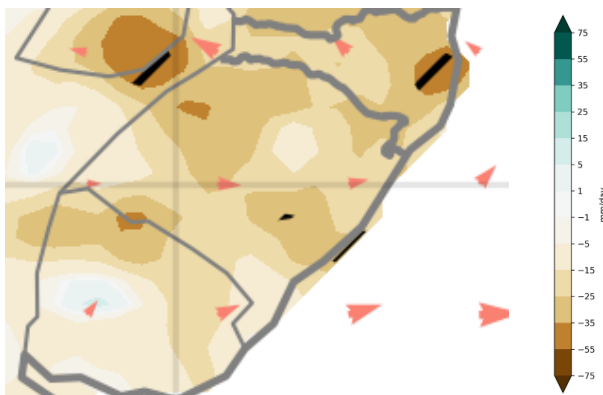
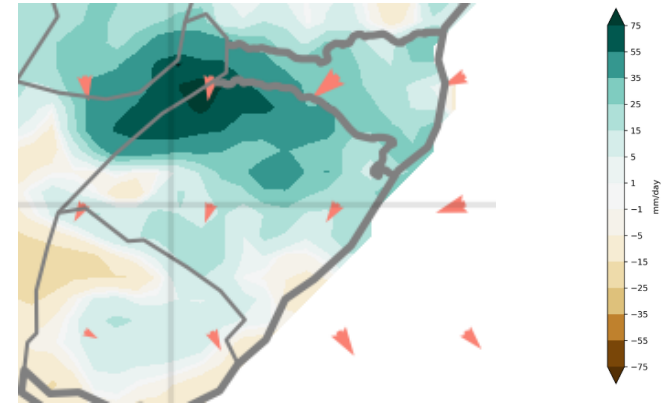
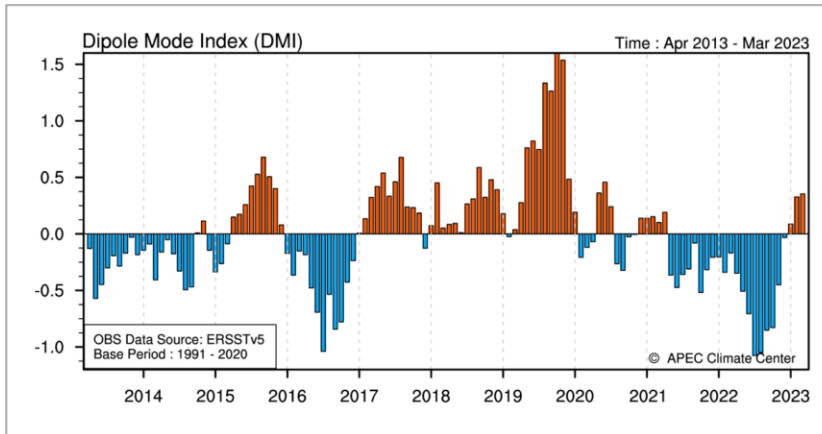
Anomalia de Temp. Superfície do Mar 26/03/2023 a 01/04/2023



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

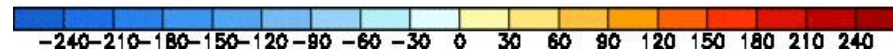
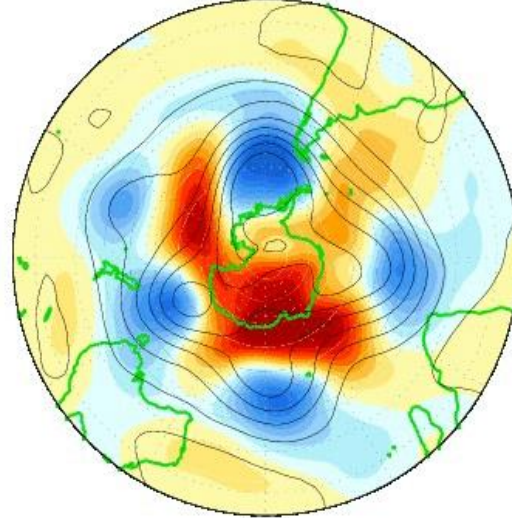


Índices oceânicos

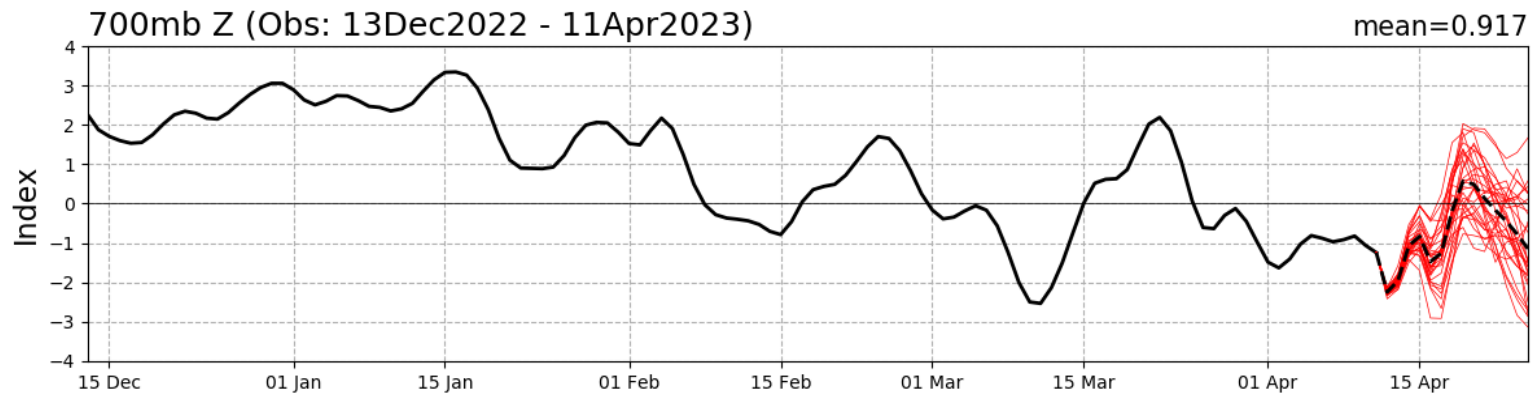


Índice atmosférico (AAO)

CDAS 500-hPa HT Anoms (5d rm)
10MAR2023

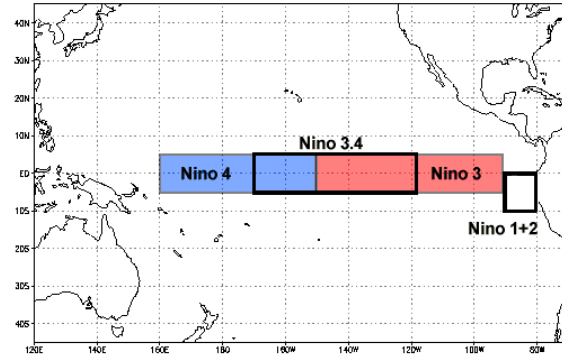
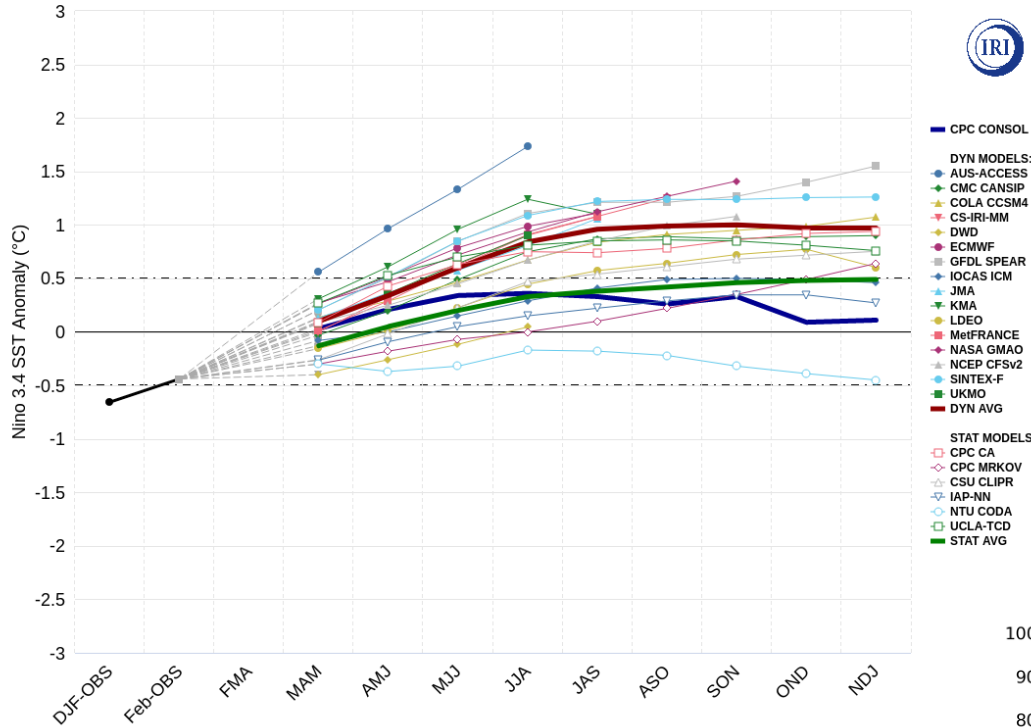


AAO Index: Observed & GEFS Forecasts

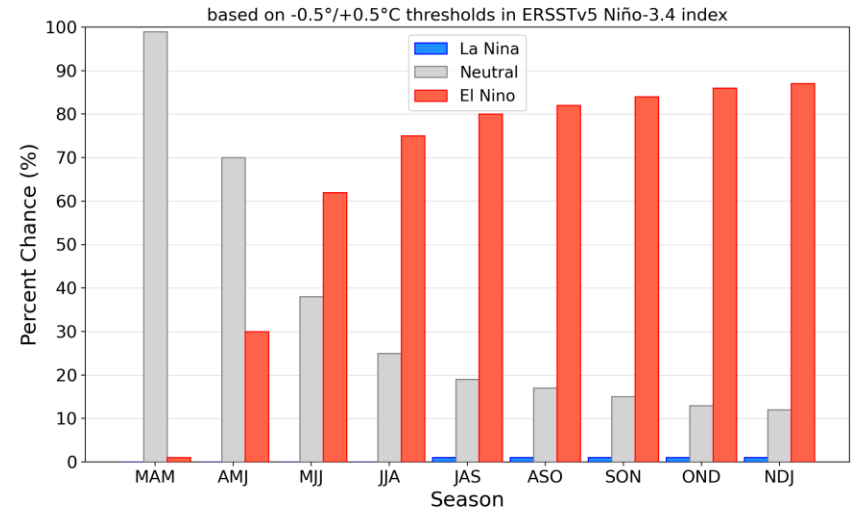


Previsões do ENOS

Model Predictions of ENSO from Mar 2023



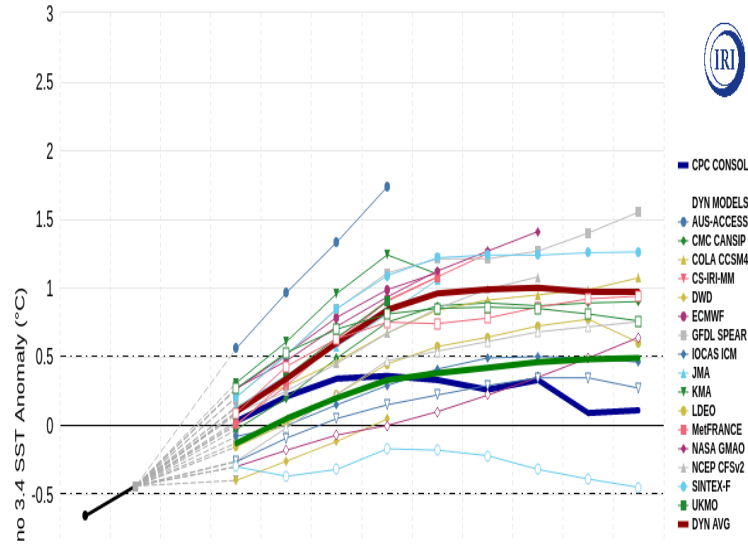
Official NOAA CPC ENSO Probabilities (issued Apr. 2023)



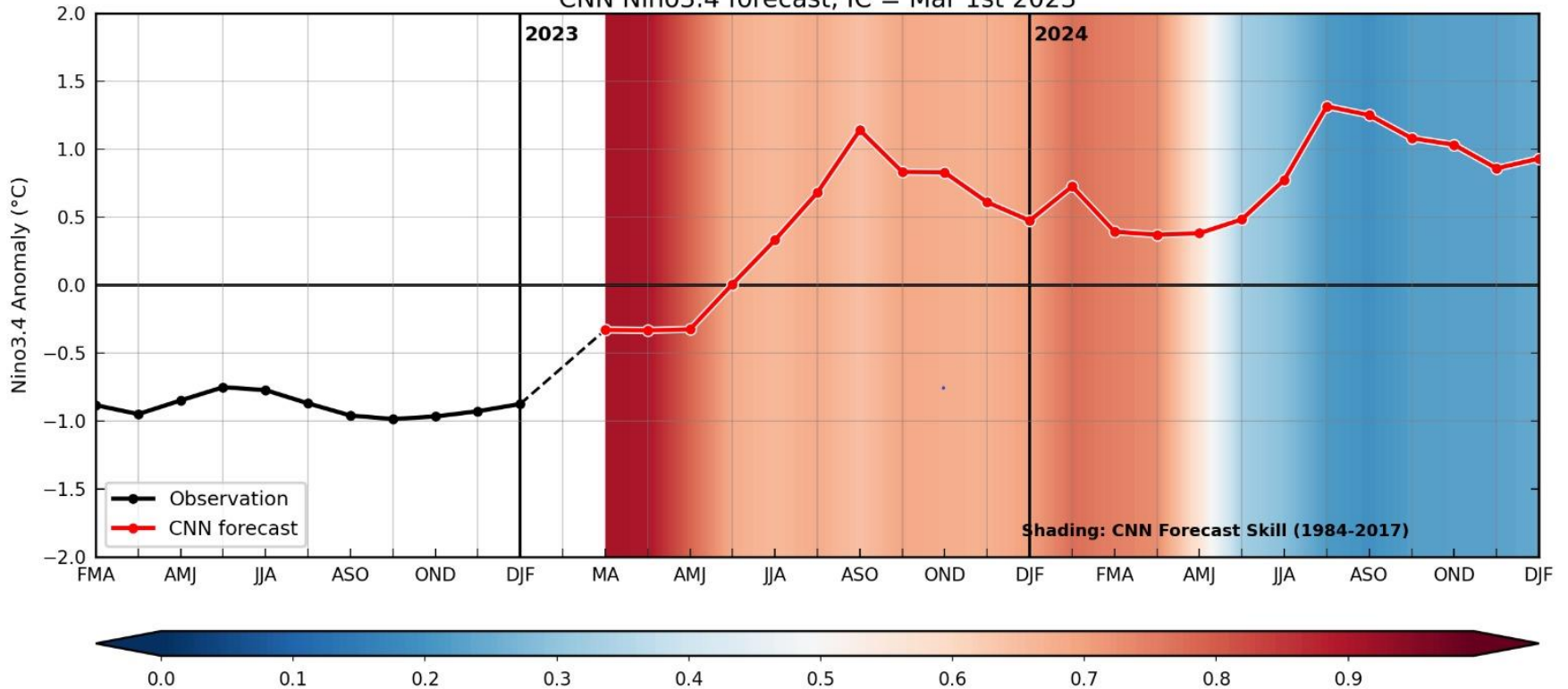
Model Predictions of ENSO from Mar 2023



S



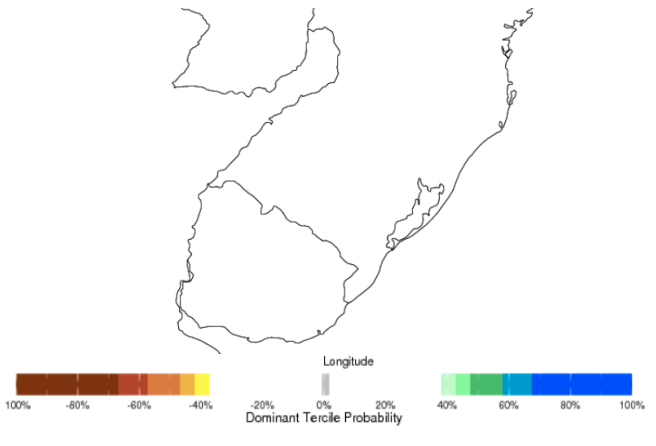
CNN Niño3.4 forecast, IC = Mar 1st 2023



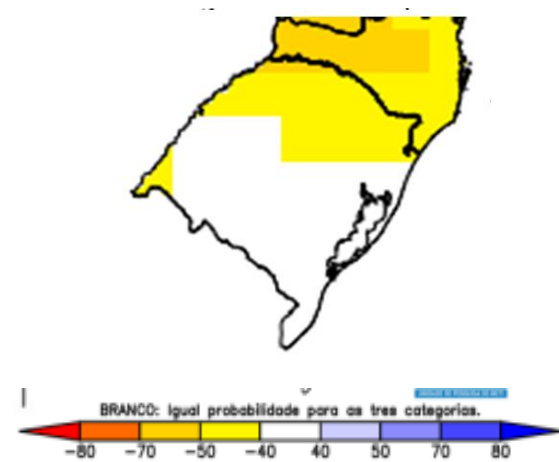
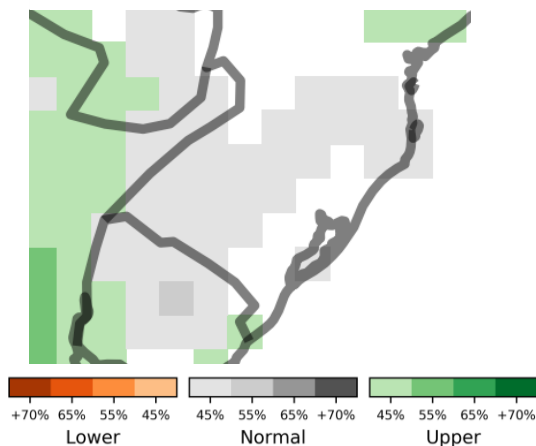
Previsões sazonais (AMJ) - Precipitação (probabilística)

Multimodelo [CPTEC](#)/[INMET](#)/[FUNCEME](#)

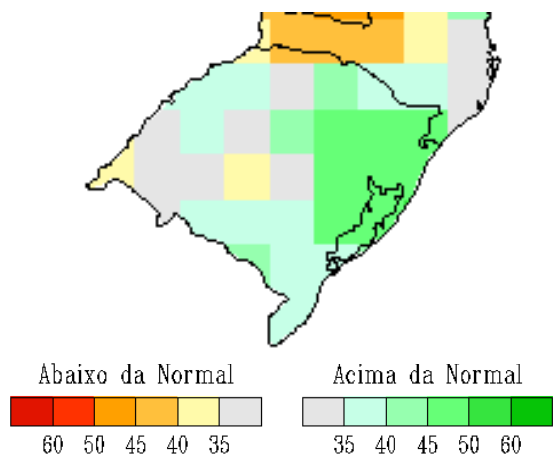
Multimodelo IRI



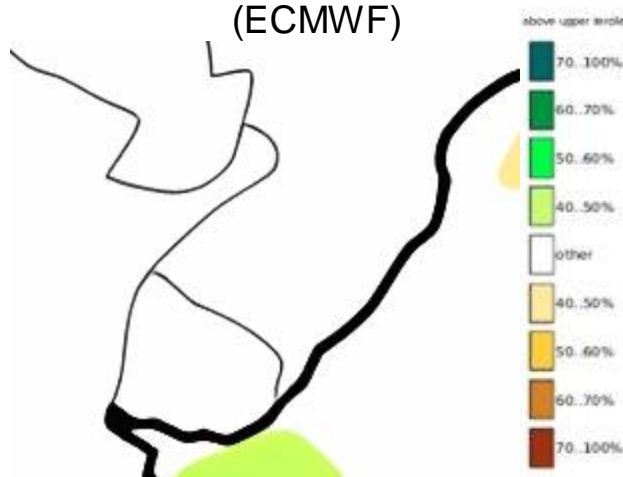
CIMA-CONICET-UBA



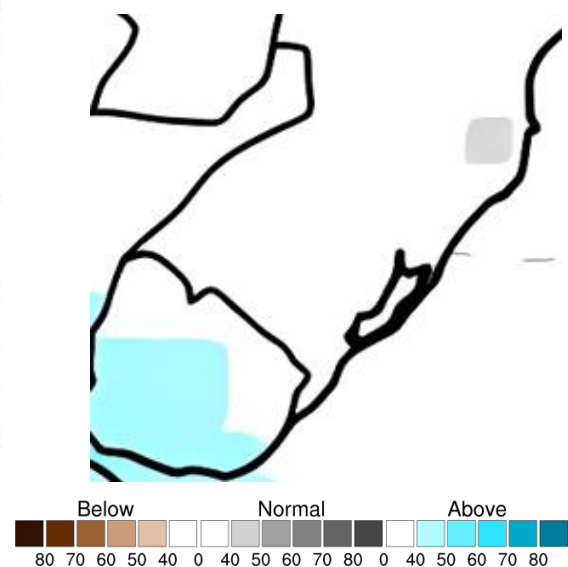
INMET



Multissistema C3S (ECMWF)

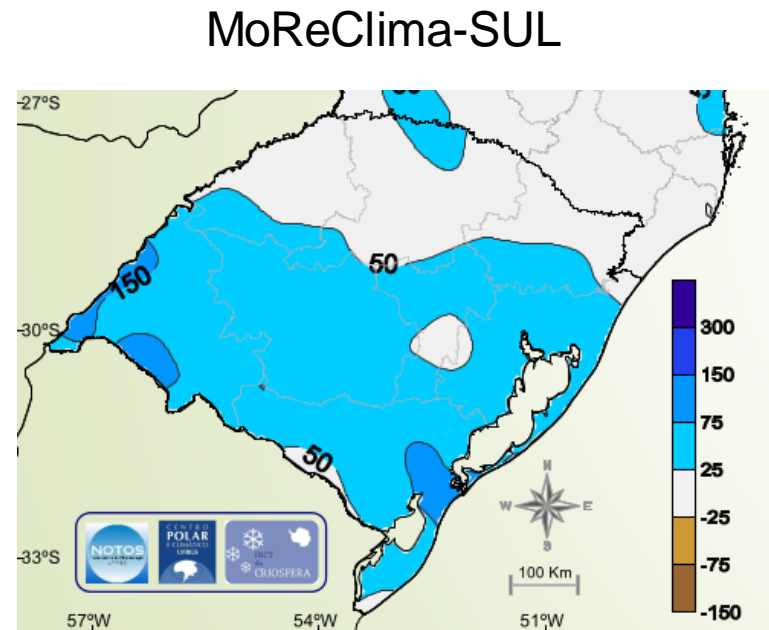
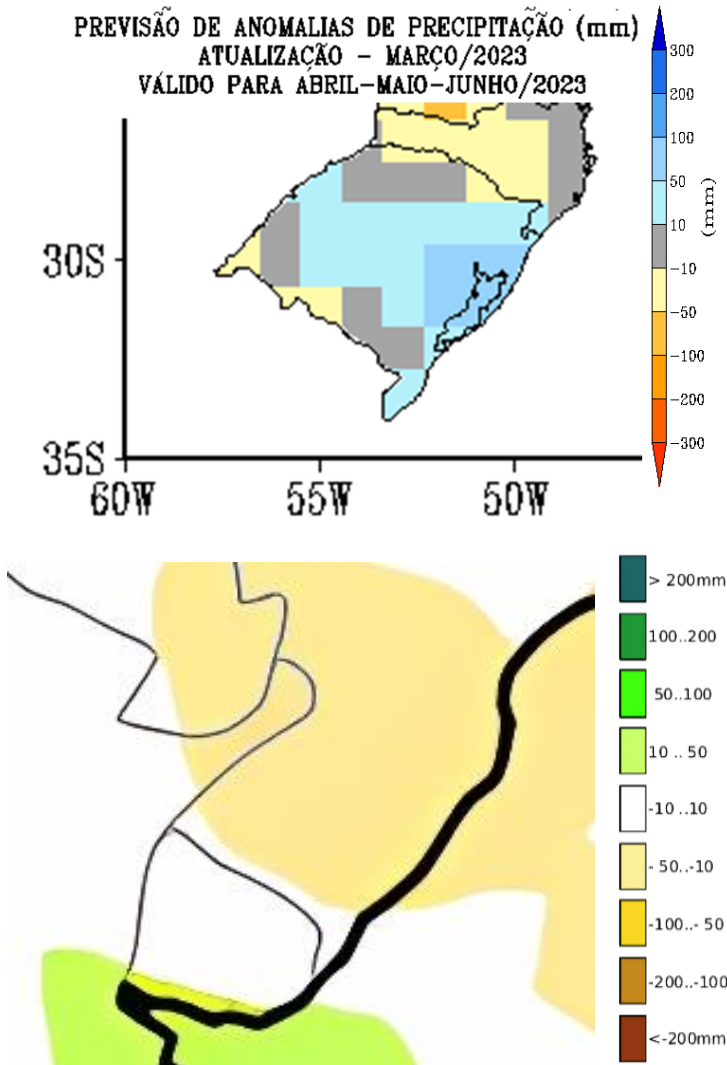


APCC



Previsões sazonais

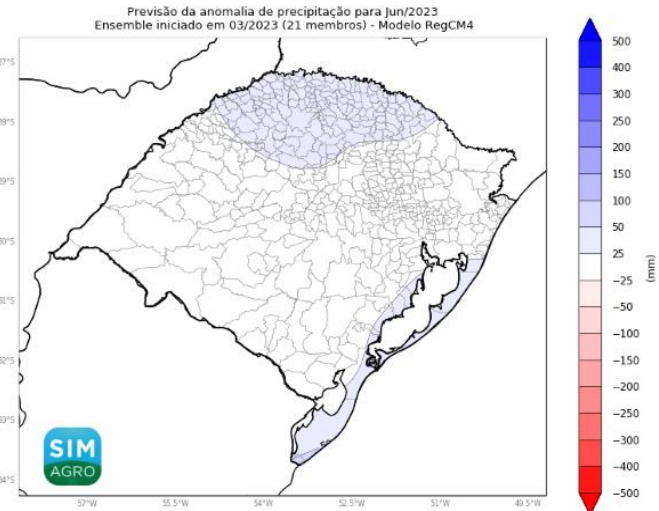
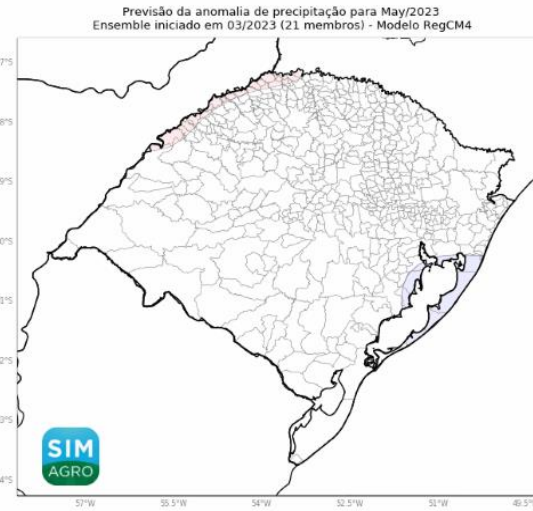
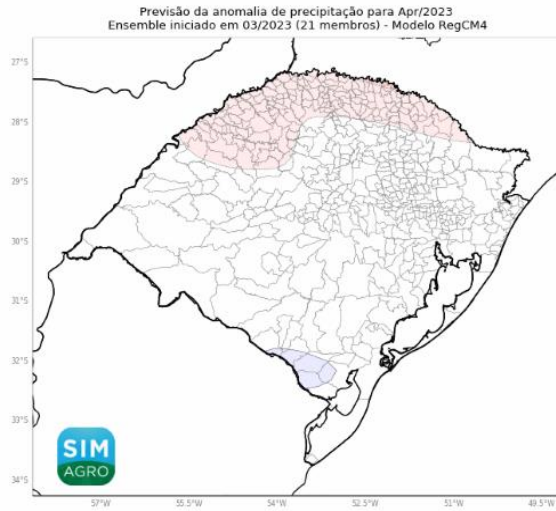
Previsões sazonais (AMJ) - Precipitação (anomalias)



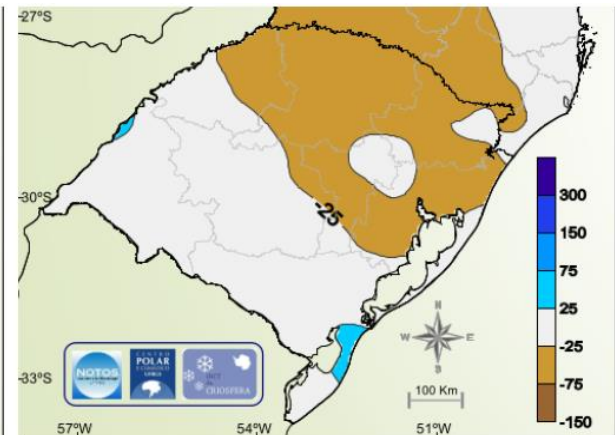
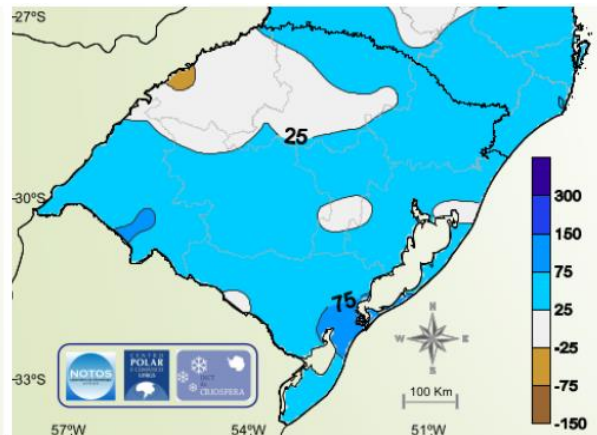
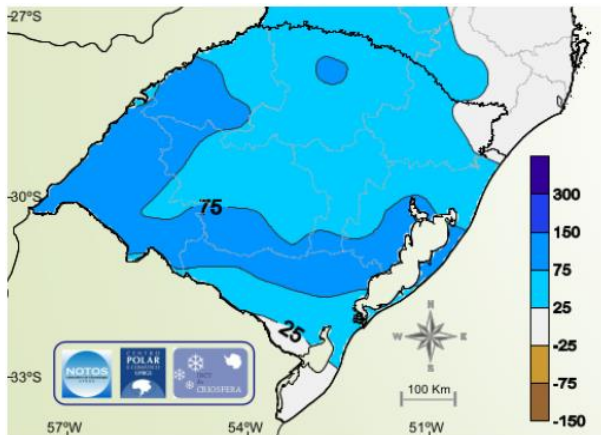
Previsões mensais

Precipitação (mm)

ReqCM4



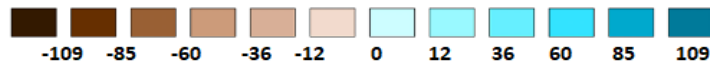
MoReClima-SUL



Previsões mensais

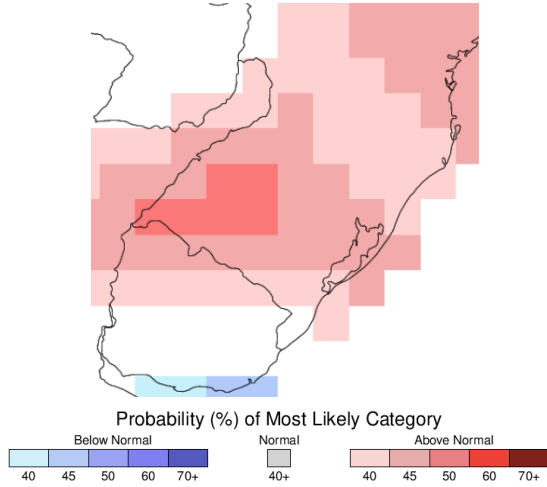
Precipitação (mm)

APCC

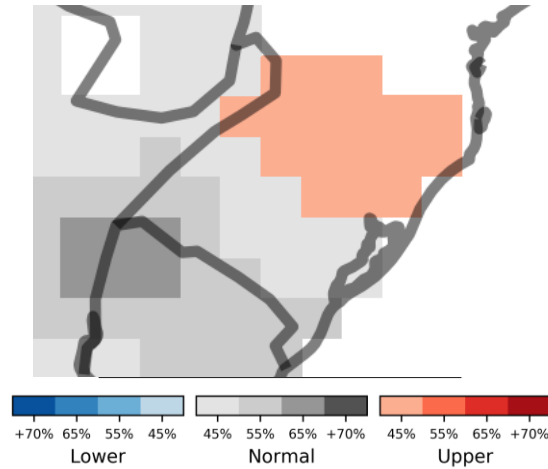


Previsões sazonais (AMJ) - Temperatura (probabilística)

Multimodelo IRI



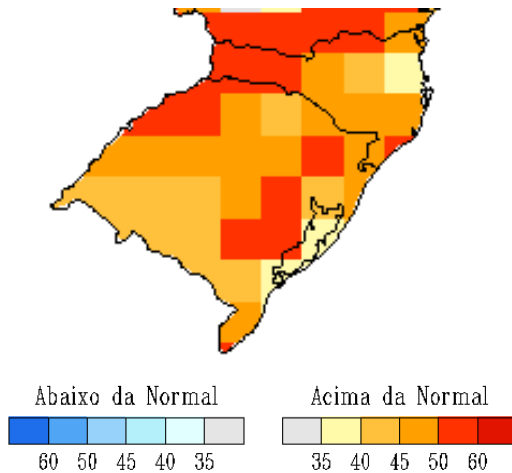
CIMA-CONICET-UBA



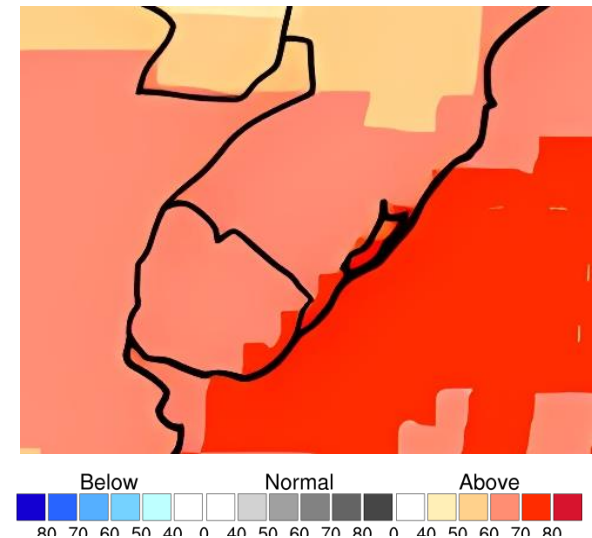
Multissistema C3S (ECMWF)



INMET

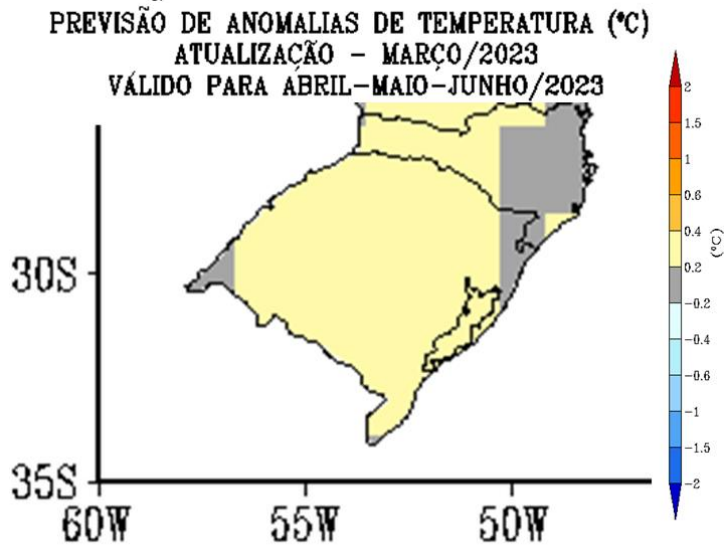


APCC

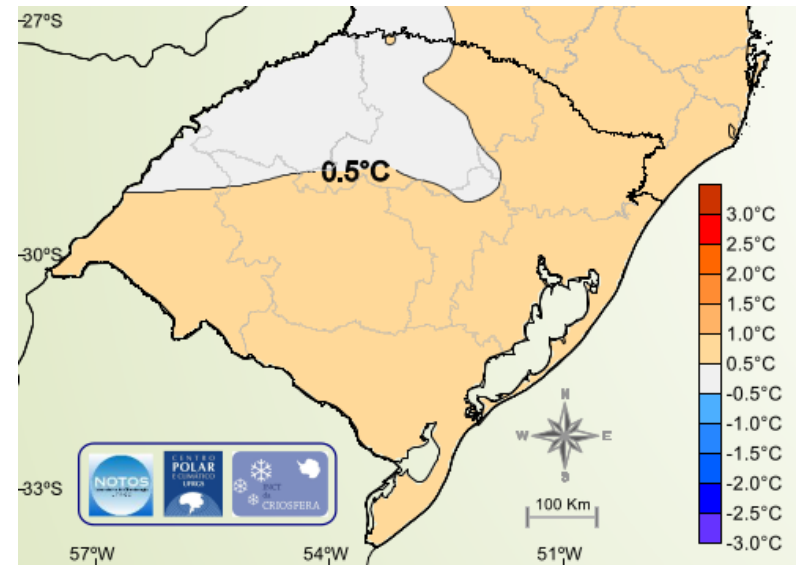


Previsões sazonais

Temperatura (°C)



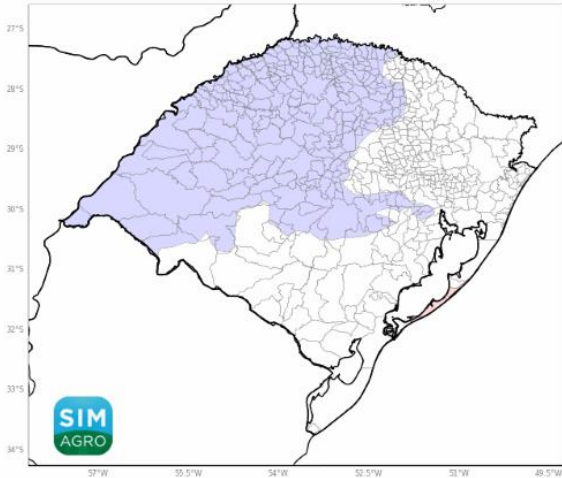
MoReClima-SUL



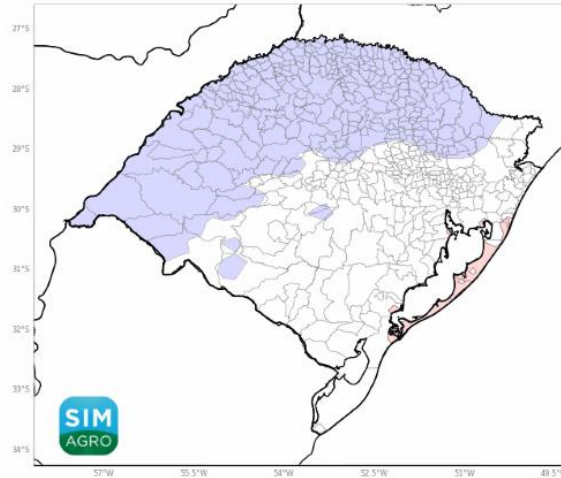
Previsões mensais – Temperatura (°C)

RegCM4

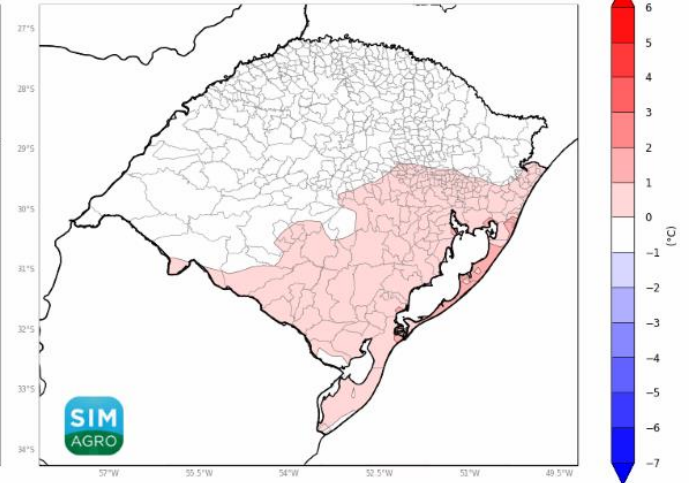
Previsão da anomalia de temperatura média do ar a 2m para Apr/2023
Ensemble iniciado em 03/2023 (26 membros) - Modelo RegCM4



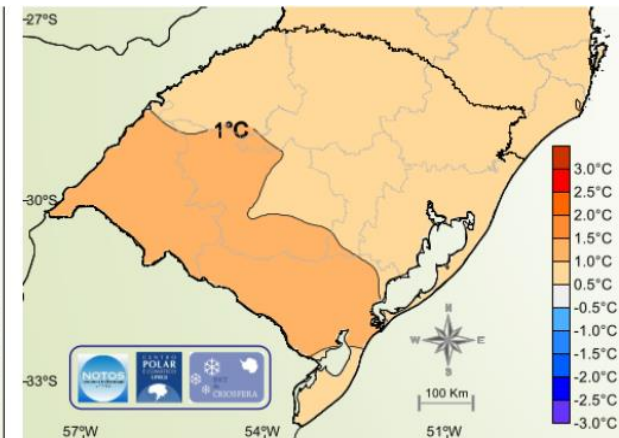
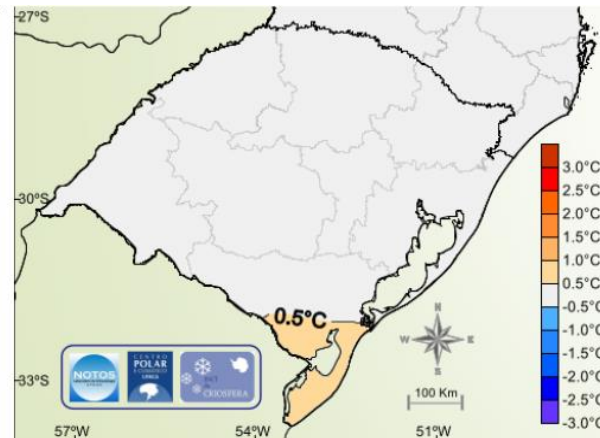
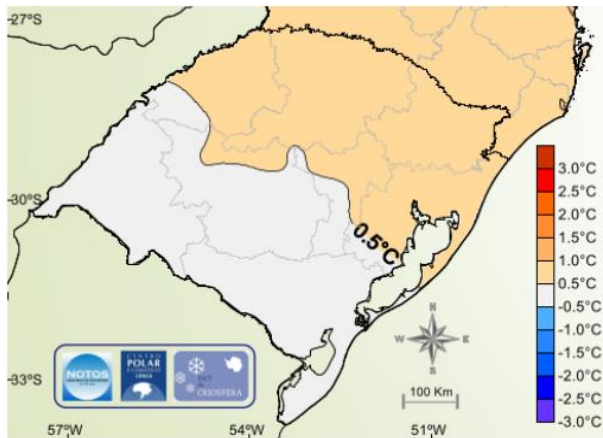
Previsão da anomalia de temperatura média do ar a 2m para May/2023
Ensemble iniciado em 03/2023 (26 membros) - Modelo RegCM4



Previsão da anomalia de temperatura média do ar a 2m para Jun/2023
Ensemble iniciado em 03/2023 (26 membros) - Modelo RegCM4

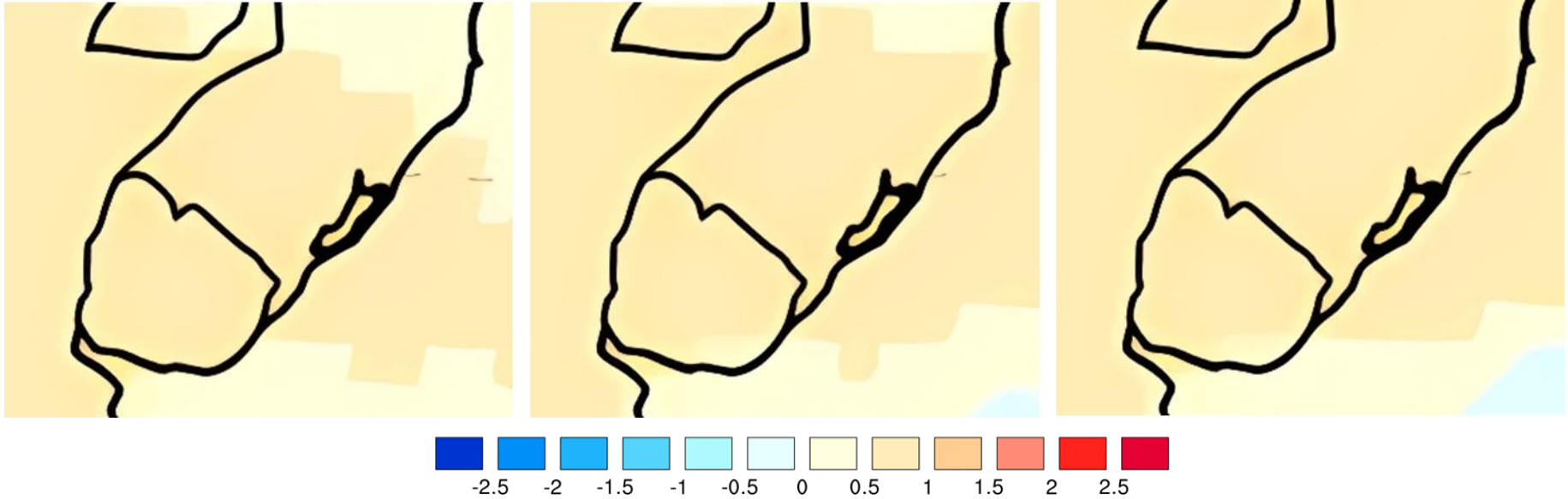


MoReClima-SUL



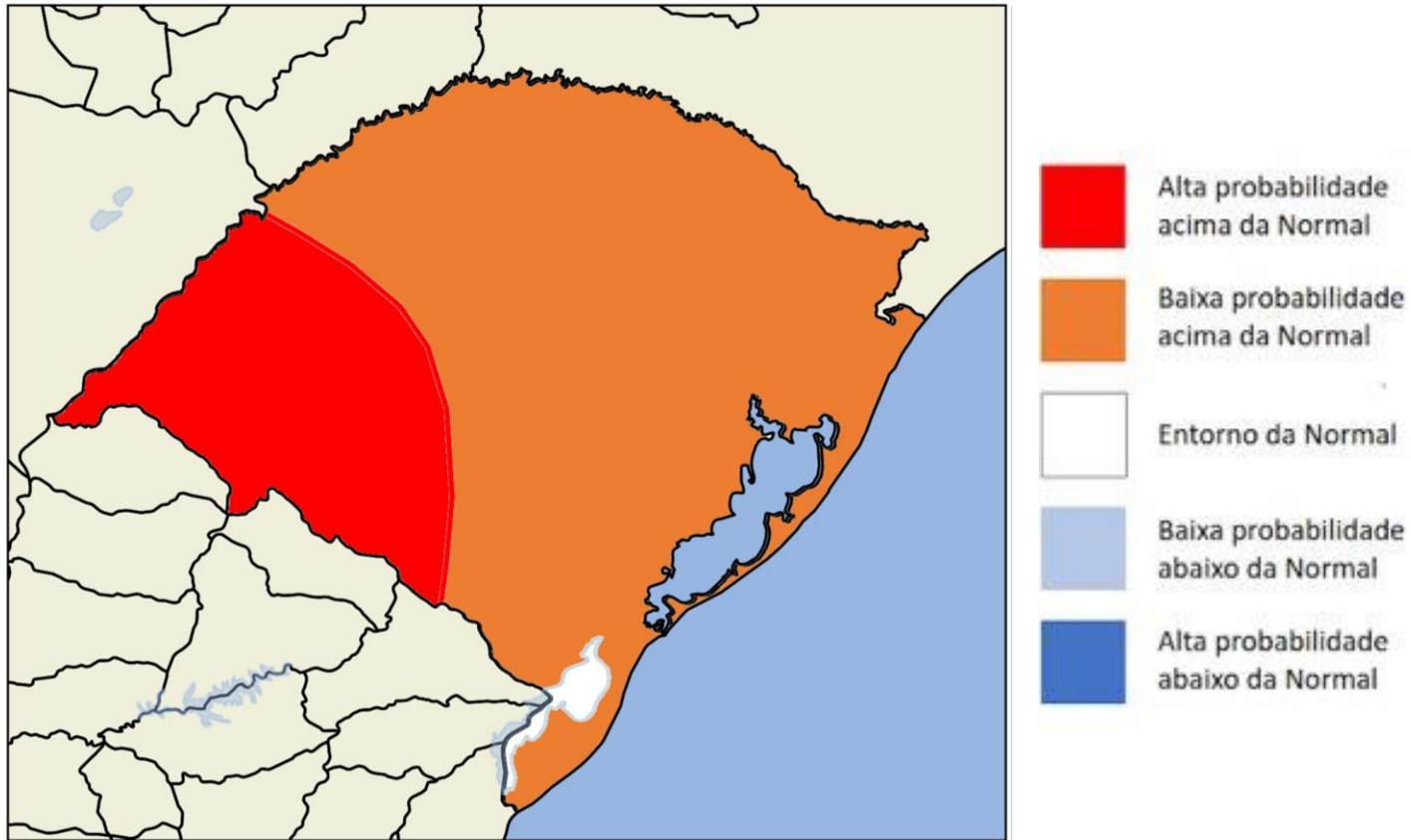
Previsões mensais – Temperatura (°C)

APCC



Previsão por consenso

Temperatura AMJ



Previsão por consenso

Prec(AMJ-2023)

