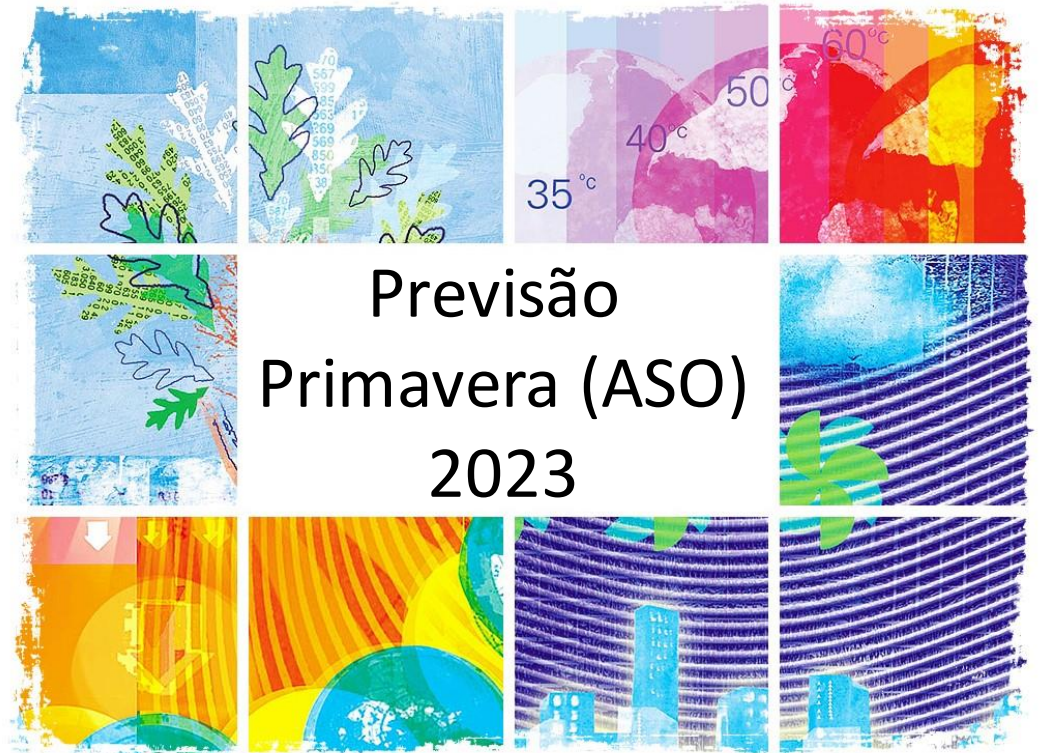


XII Reunião Climática Mensal

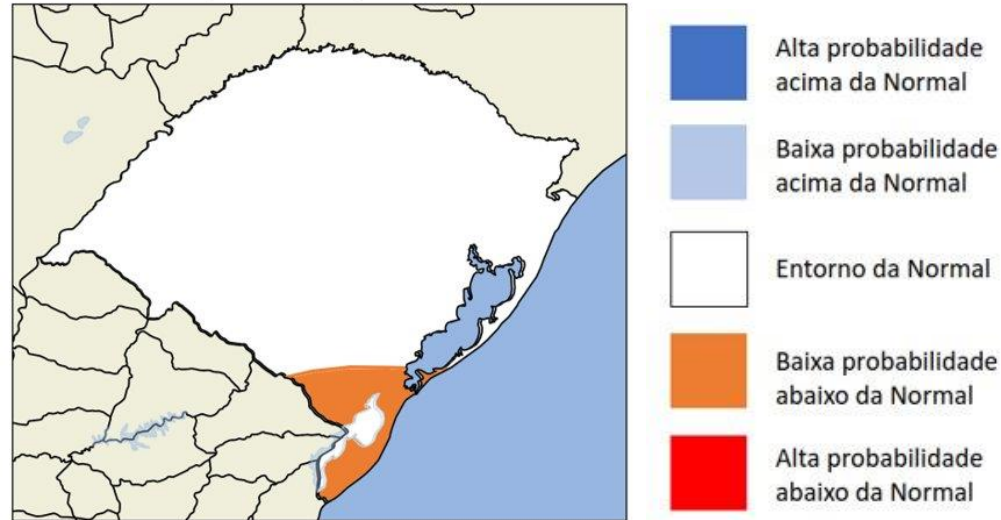


Verificação da previsão para MJJ

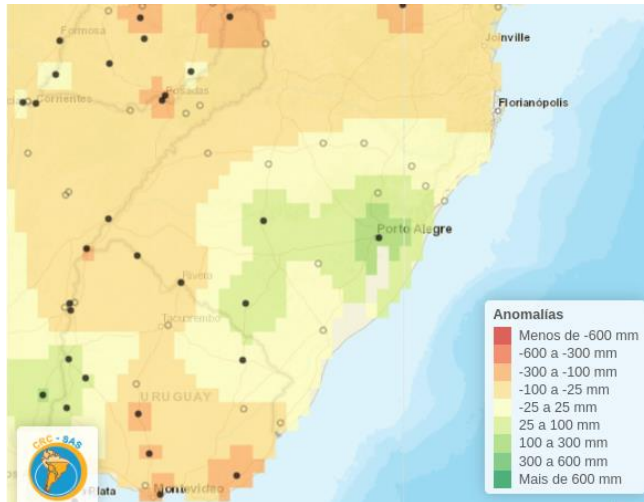
Previsão por consenso realizada em Abril de 2023

Precipitação

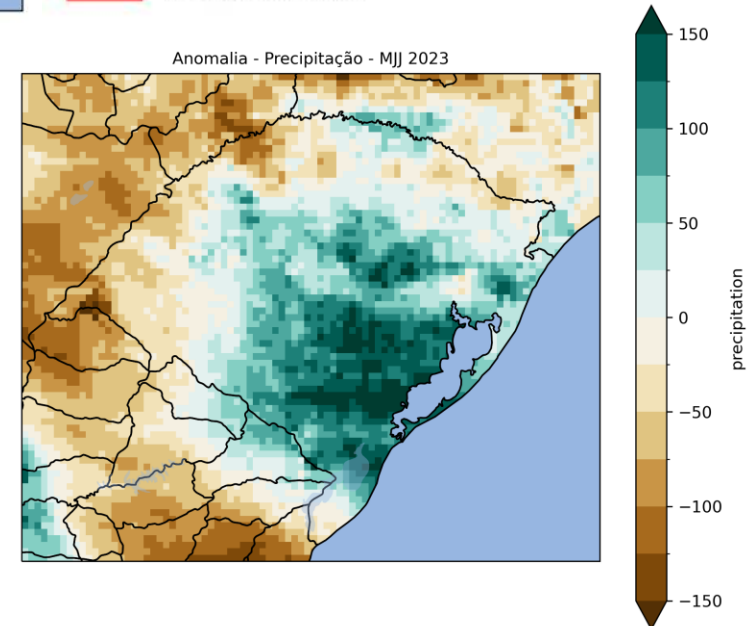
Previsto:



CRC-SAS:



Observado:

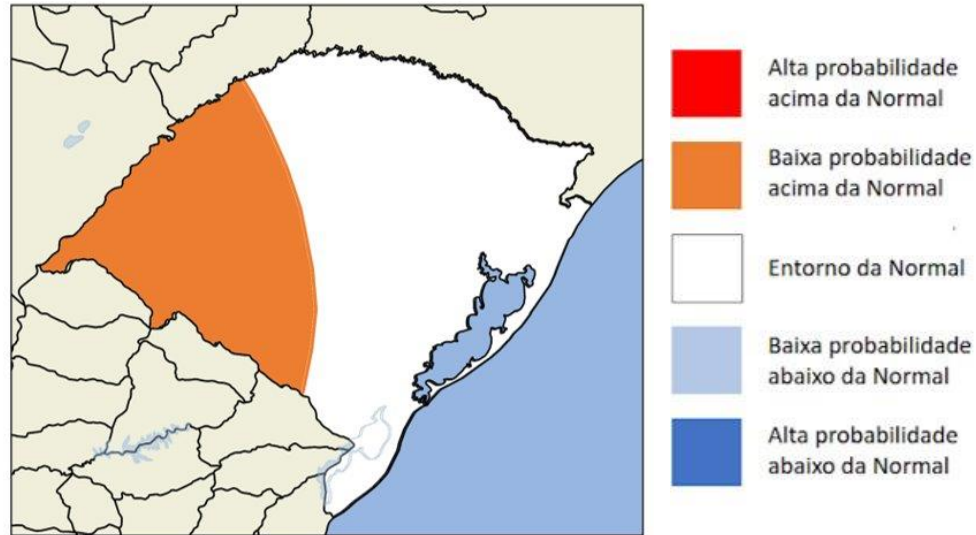


Verificação da previsão para MJJ

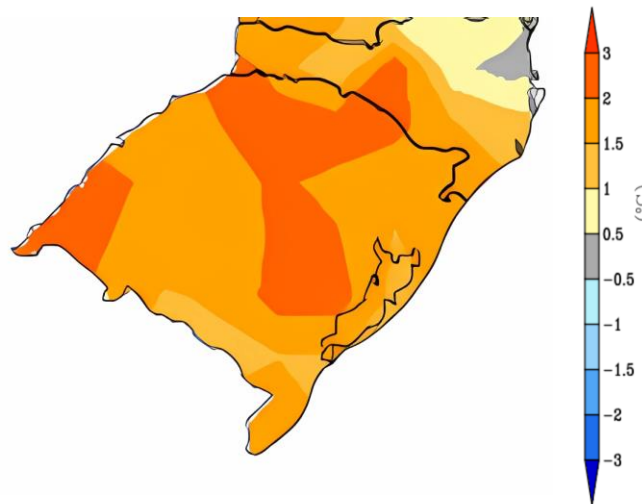
Previsão por consenso realizada em Abril de 2023

Temperatura do ar

Previsto:



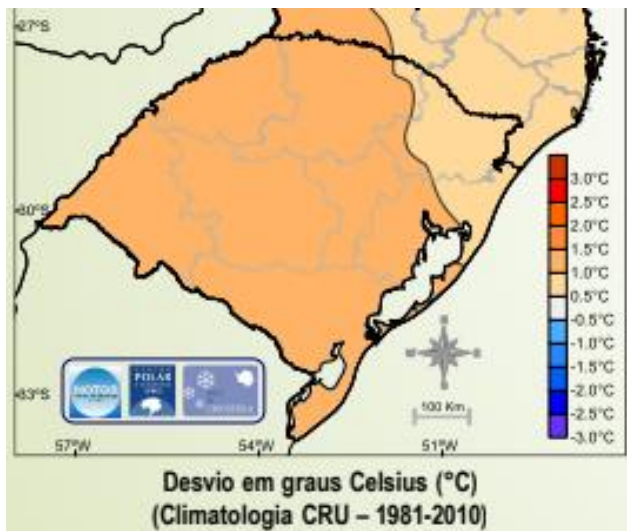
Observado INMET:



Verificação da previsão para MJJ

Anomalia de Precipitação sazonal MoReClima (MJJ/2023)

Temperatura

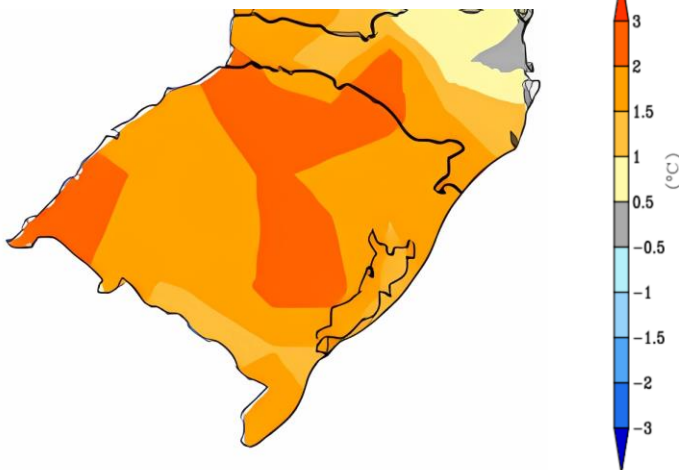


Precipitação

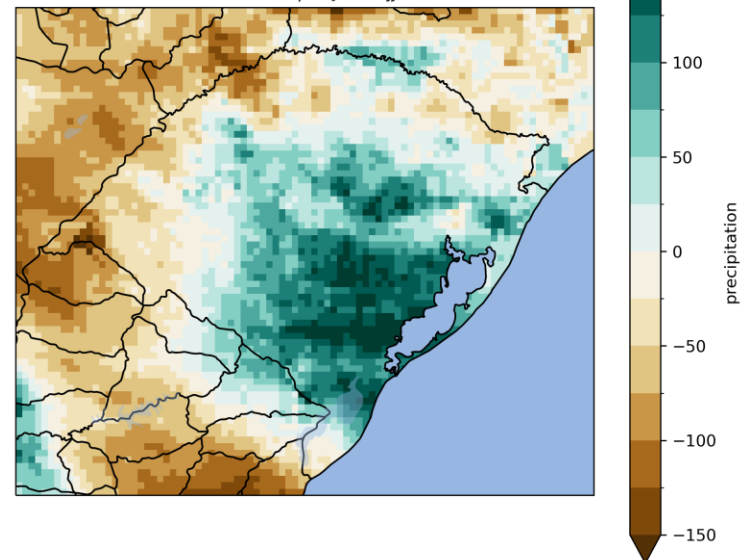


Previsto:

Observado:



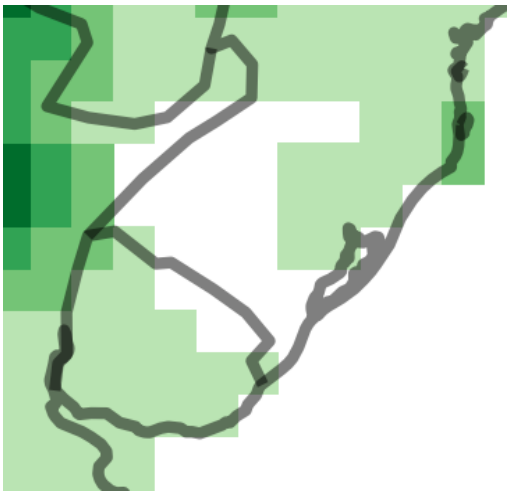
Anomalia - Precipitação - MJJ 2023



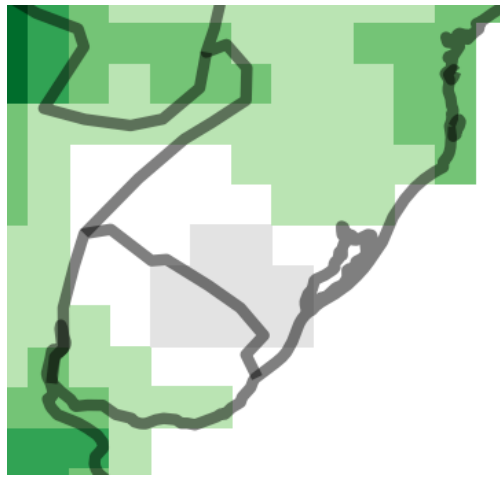
Verificação dos modelos por tempo de antecedência

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

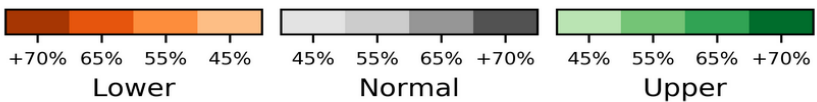
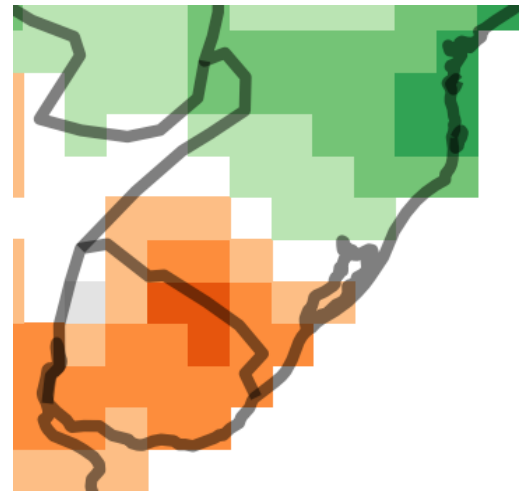
Iniciado em Fevereiro/2023



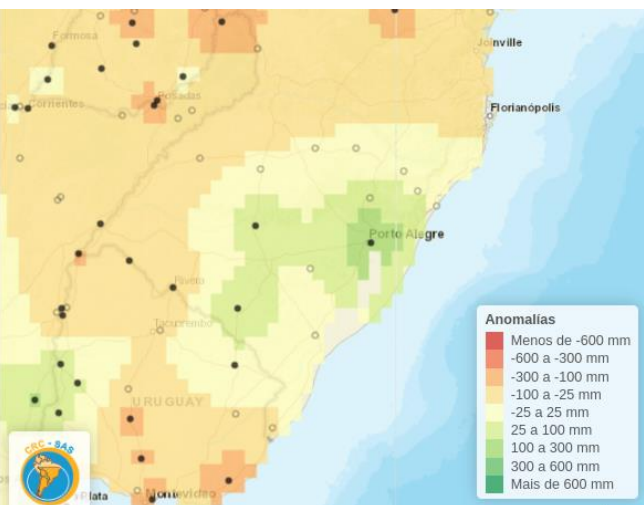
Iniciado em Março/2023



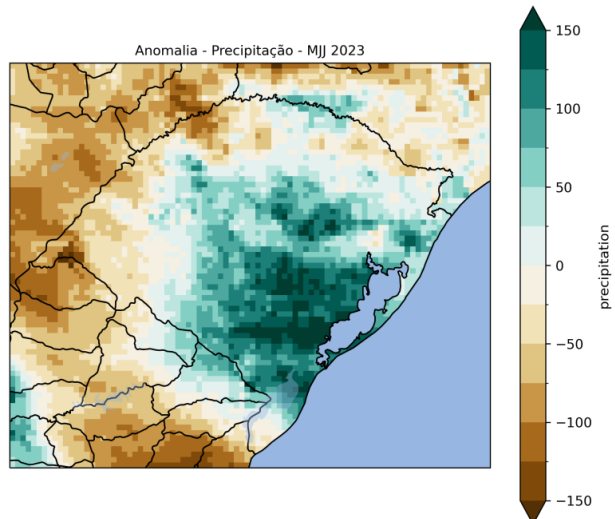
Iniciado em Abril/2023



CRC-SAS:



Observado:



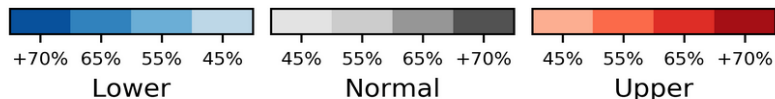
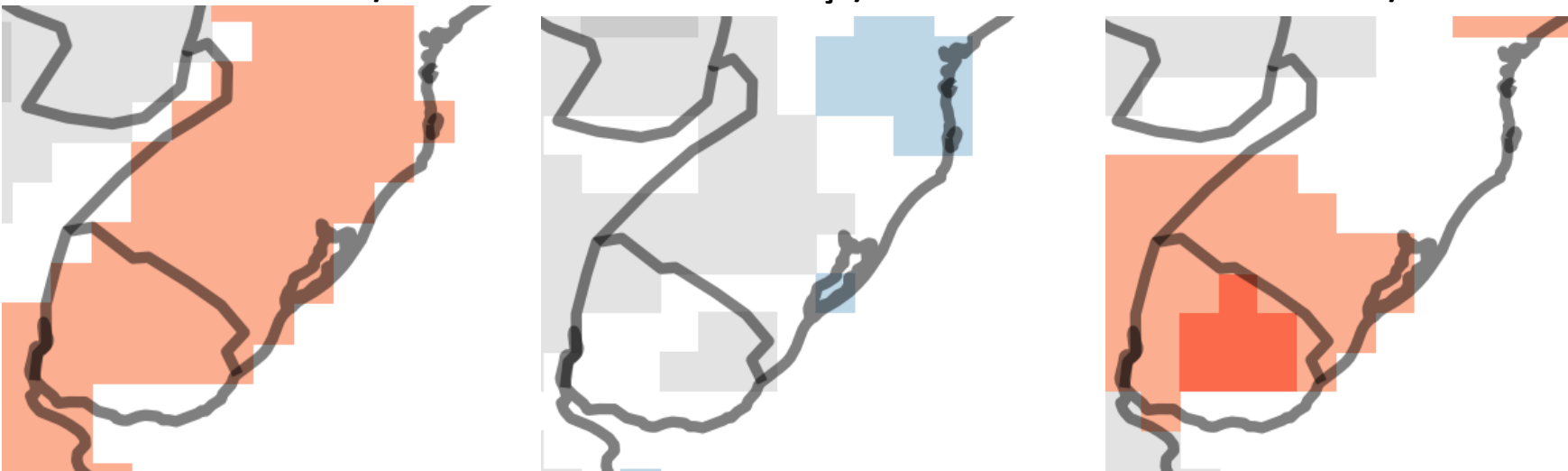
Verificação dos modelos por tempo de antecedência

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

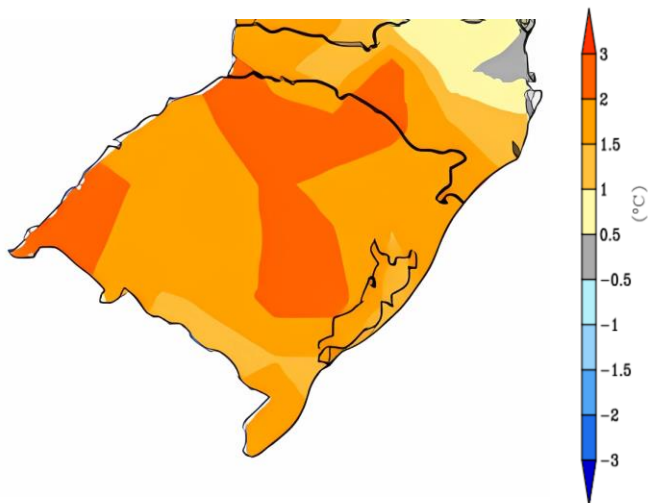
Iniciado em Fevereiro/2023

Iniciado em Março/2023

Iniciado em Abril/2023



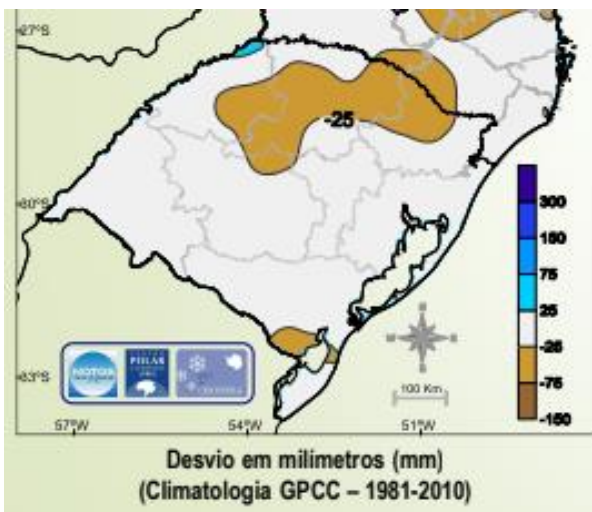
Observado:



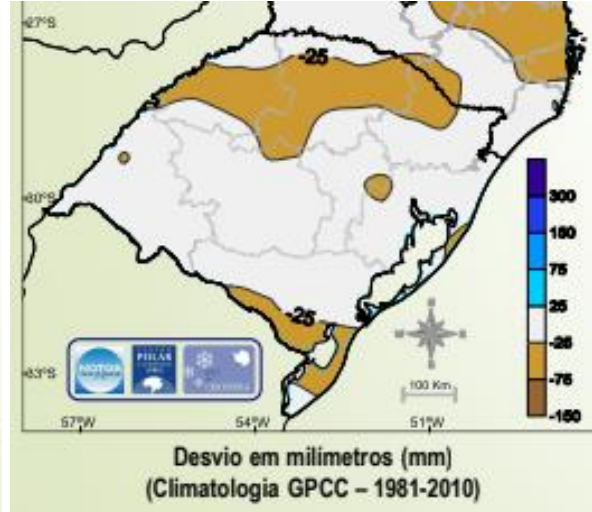
Verificação dos modelos por tempo de antecedência

Anomalia de Precipitação MoReClima-SUL (Julho/2023)

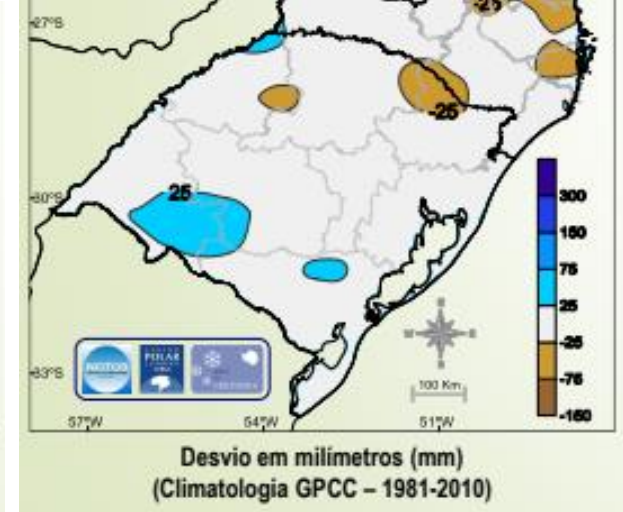
Iniciado em Abril/2023



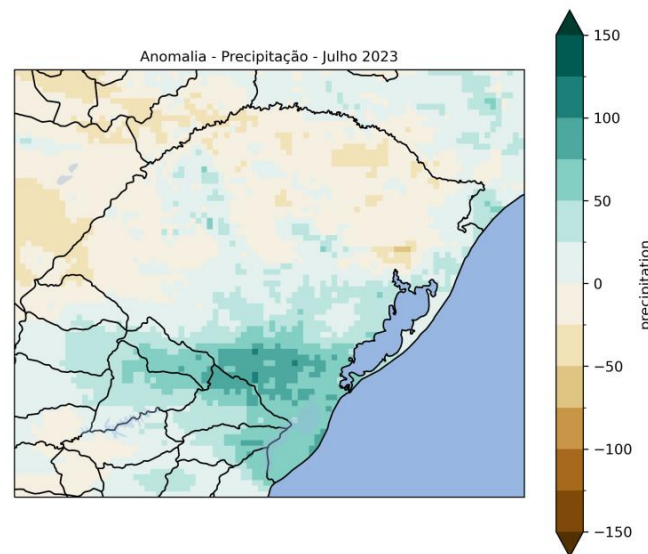
Iniciado em Maio/2023



Iniciado em Junho/2023



Observado:

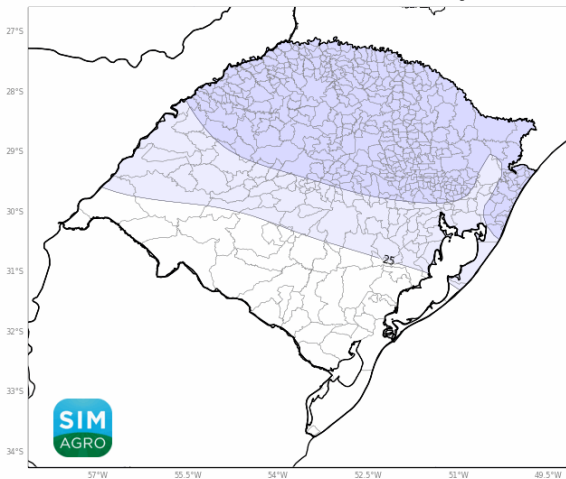


Verificação dos modelos por tempo de antecedência

Anomalia de Precipitação RegCM4 do SIMAGRO (Julho/2023)

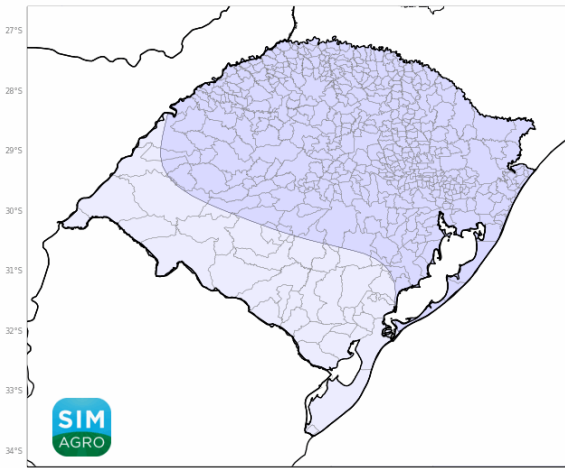
Iniciado em Abril/2023

Previsão da anomalia de precipitação para Jul/2023
Ensemble iniciado em 04/2023 (21 membros) - Modelo RegCM4



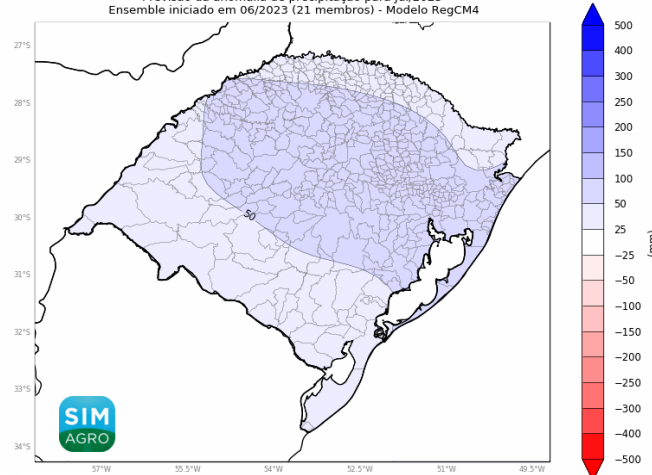
Iniciado em Maio/2023

Previsão da anomalia de precipitação para Jul/2023
Ensemble iniciado em 05/2023 (21 membros) - Modelo RegCM4

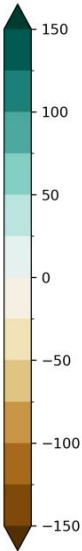
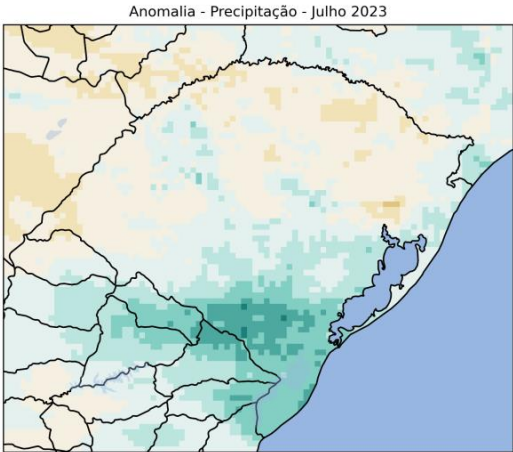


Iniciado em Junho/2023

Previsão da anomalia de precipitação para Jul/2023
Ensemble iniciado em 06/2023 (21 membros) - Modelo RegCM4



Observado:



Verificação dos modelos por tempo de antecedência

Anomalia de Precipitação APCC (Julho/2023)

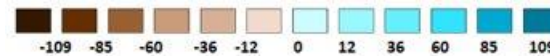
Iniciado em Abril/2023



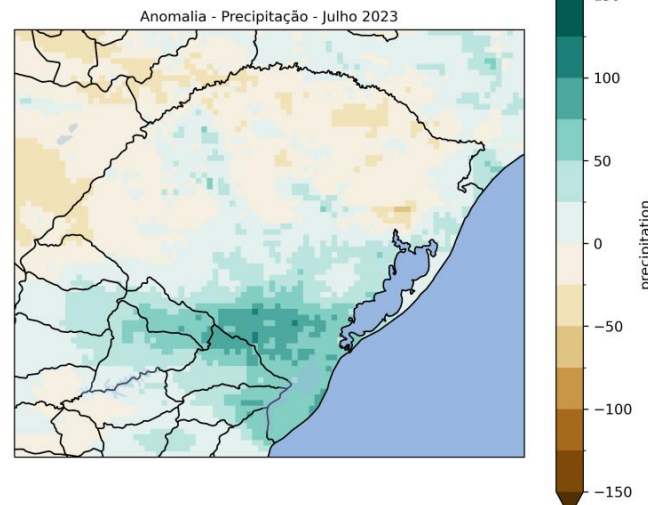
Iniciado em Maio/2023



Iniciado em Junho/2023



Observado:



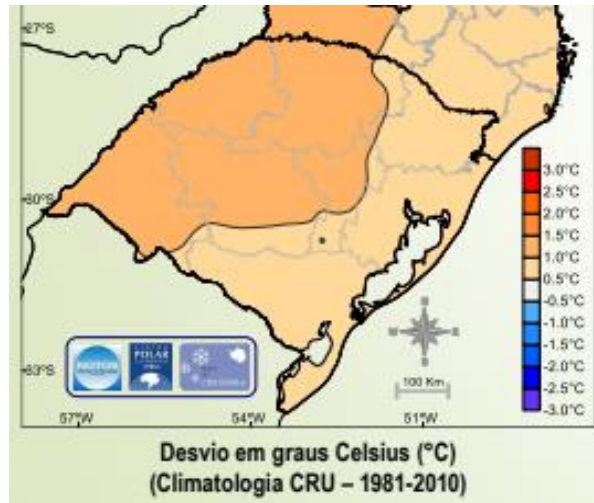
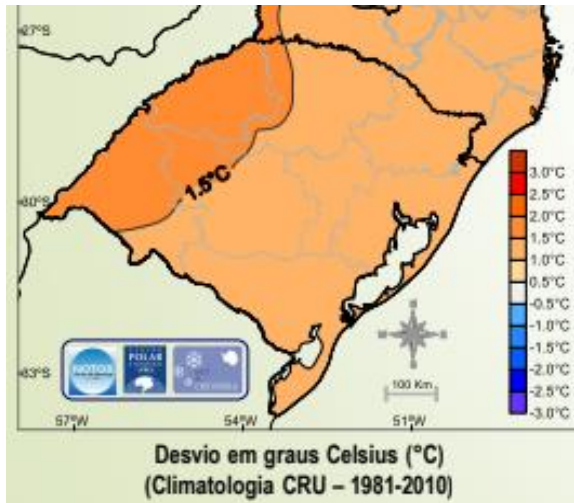
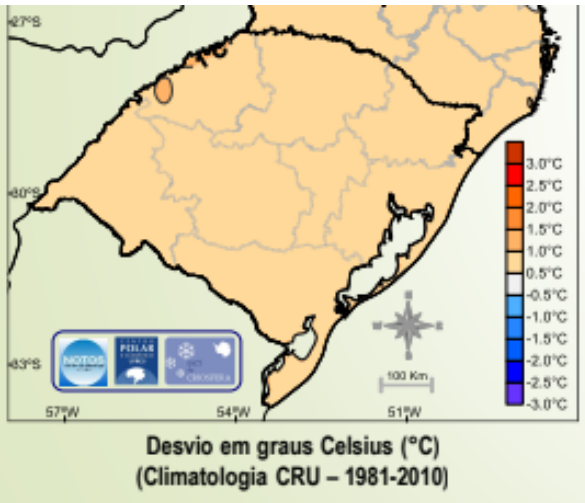
Verificação dos modelos por tempo de antecedência

Anomalia de Temperatura MoReClima-SUL (Julho/2023)

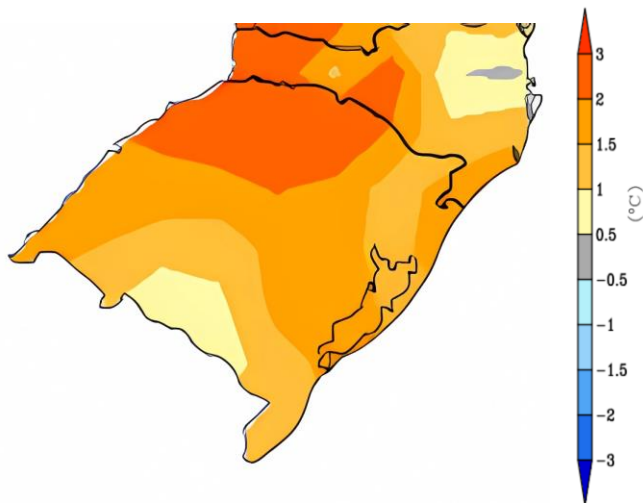
Iniciado em Abril/2023

Iniciado em Maio/2023

Iniciado em Junho/2023



Observado:

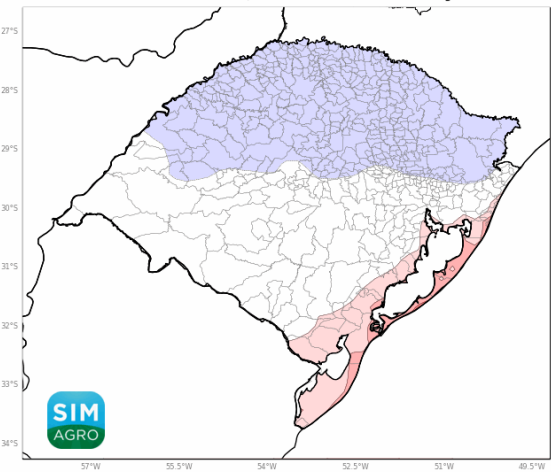


Verificação dos modelos por tempo de antecedência

Anomalia de Temperatura RegCM4 do SIMAGRO (Julho/2023)

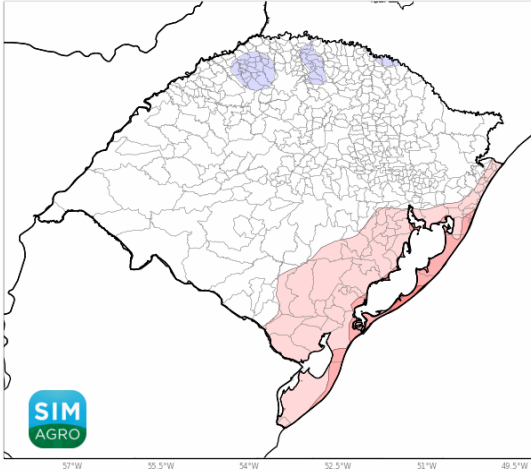
Iniciado em Abril/2023

Previsão da anomalia de temperatura média do ar a 2m para Jul/2023
Ensemble iniciado em 04/2023 (26 membros) - Modelo RegCM4



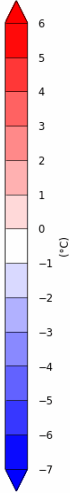
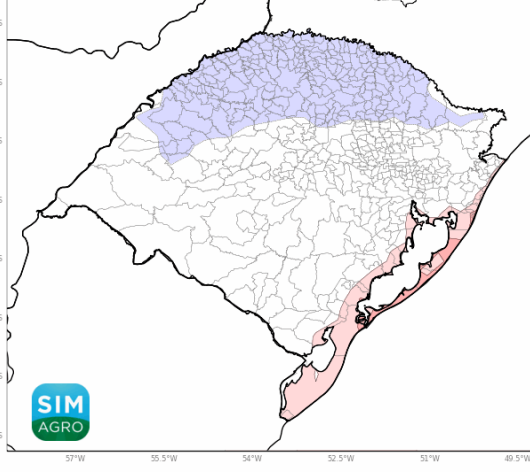
Iniciado em Maio/2023

Previsão da anomalia de temperatura média do ar a 2m para Jul/2023
Ensemble iniciado em 05/2023 (26 membros) - Modelo RegCM4

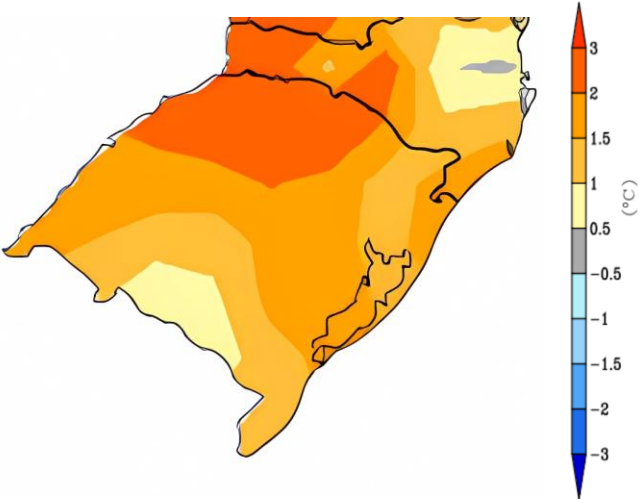


Iniciado em Junho/2023

Previsão da anomalia de temperatura média do ar a 2m para Jul/2023
Ensemble iniciado em 06/2023 (26 membros) - Modelo RegCM4



Observado:



Verificação dos modelos por tempo de antecedência

Anomalia de Temperatura APCC (Julho/2023)

Iniciado em Abril/2023



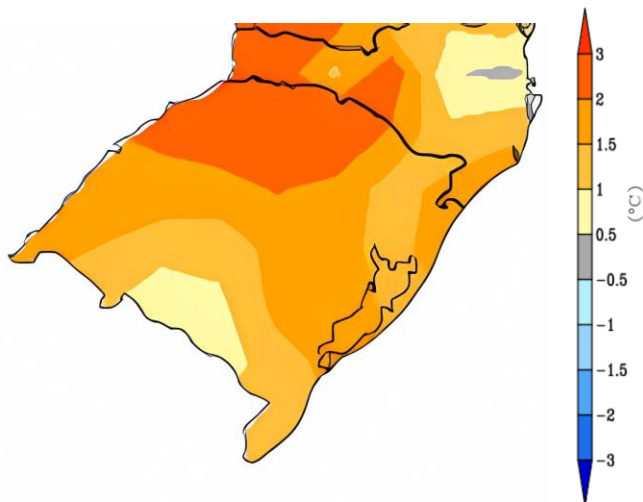
Iniciado em Maio/2023



Iniciado em Junho/2023



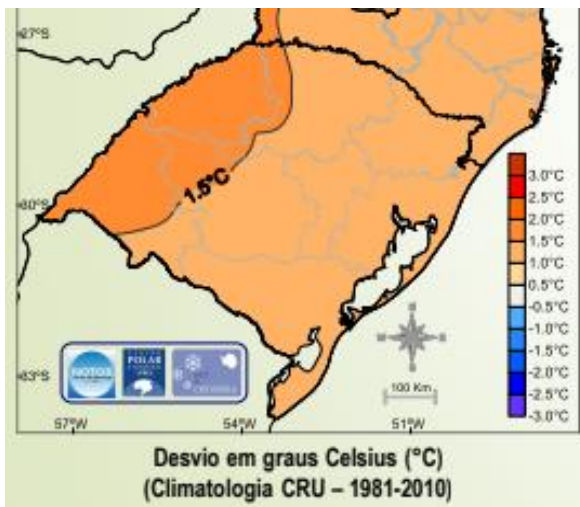
Observado:



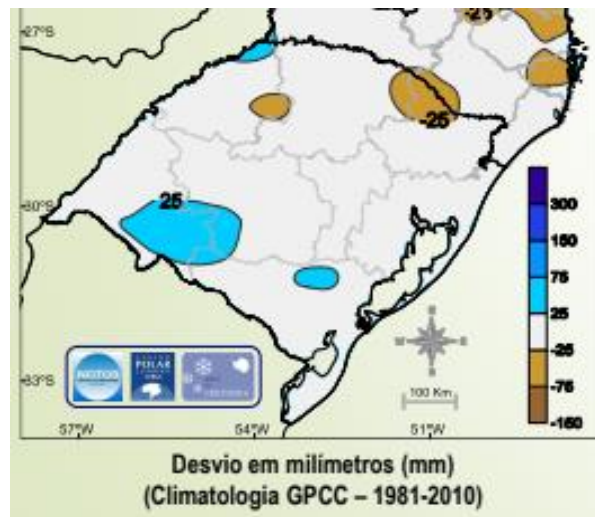
Verificação dos modelos por tempo de antecedência

Melhor previsão para Julho de 2023

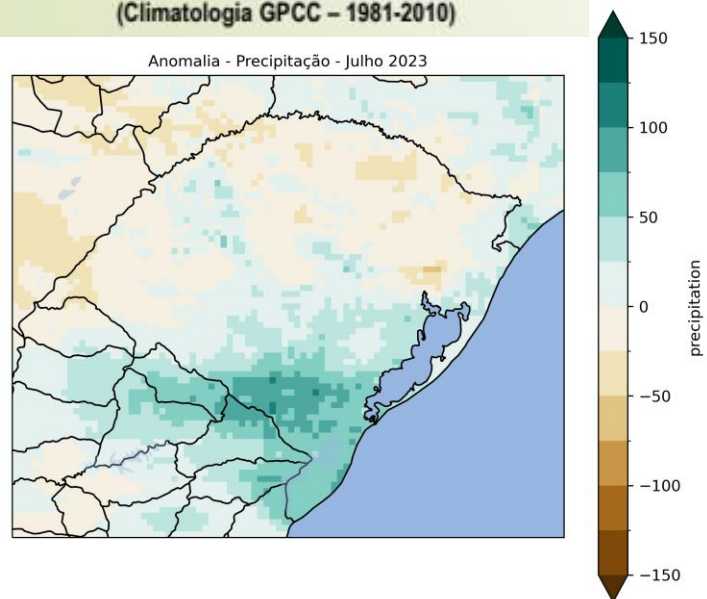
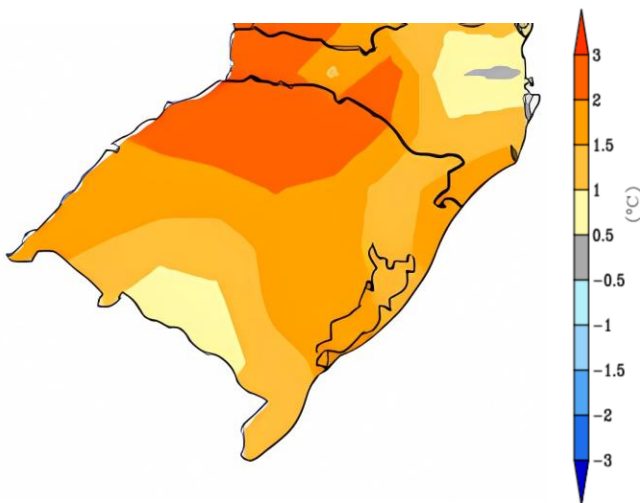
MoReClima-SUL iniciado em Maio



MoReClima-SUL iniciado em Junho

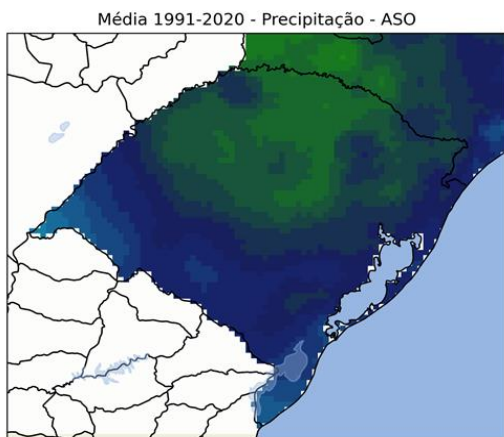


Observado:

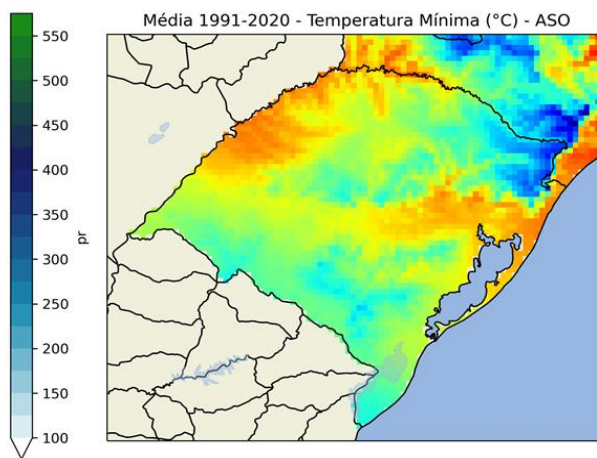


Climatologia de ASO

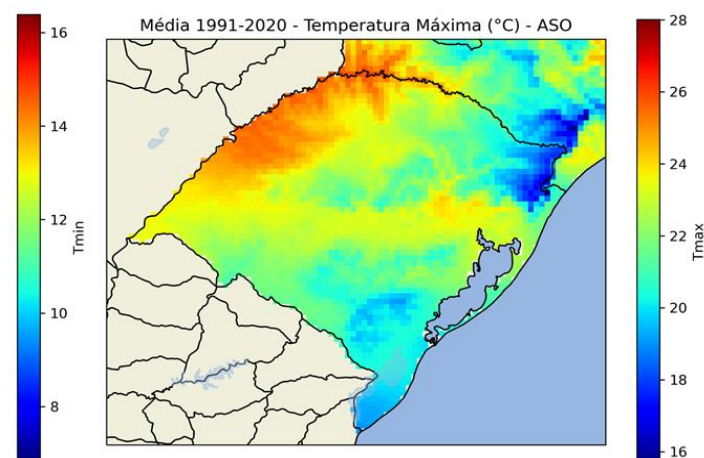
- Neste trimestre o centro-norte do RS é o setor do estado com maiores acumulados de chuva na média (> 500mm). A variação meridional ainda persiste e a porção sudoeste do RS se mantém com acumulados inferiores as demais áreas do estado.
- As médias de temperatura mínima e máxima são mais altas no noroeste do RS e na faixa central do estado até o litoral norte;



Precipitação



Temperatura mínima



Temperatura máxima

Condições observadas em MJJ/2023

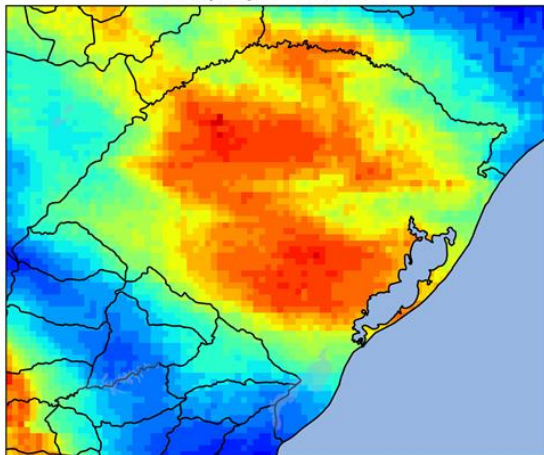
Valores absolutos

Maio

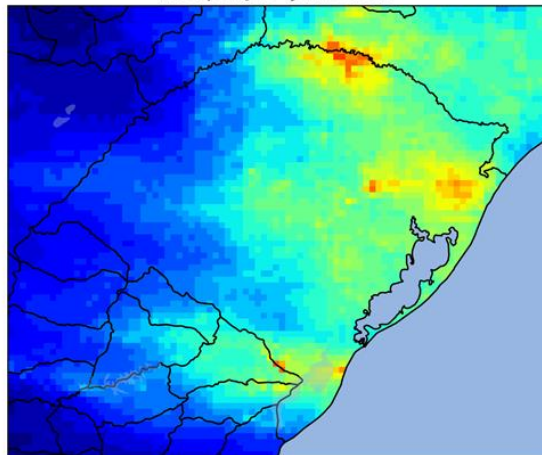
Junho

Julho

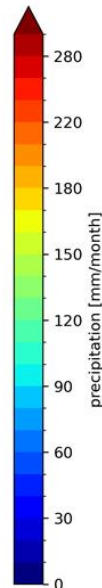
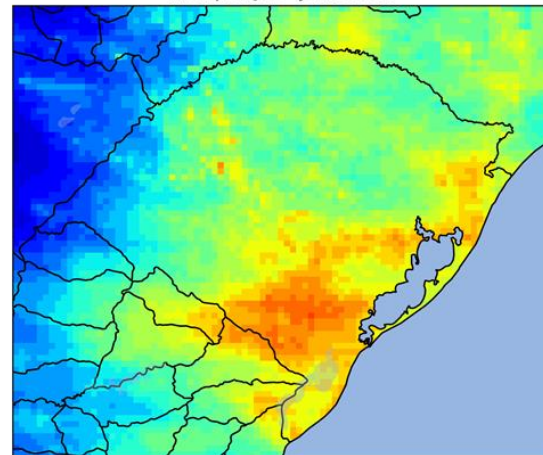
Precipitação - Maio 2023



Precipitação - Junho 2023

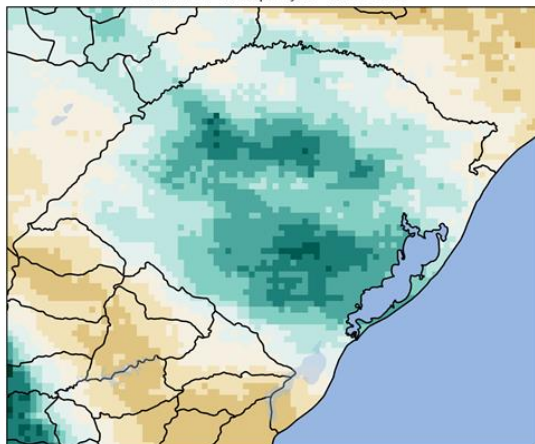


Precipitação - Julho 2023

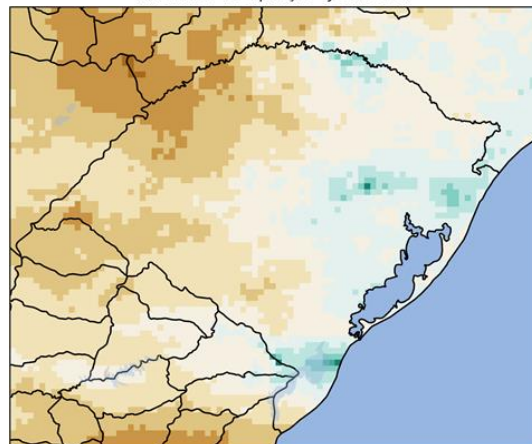


Anomalias

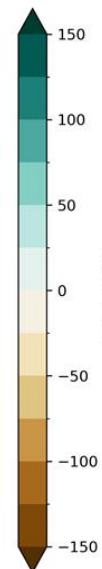
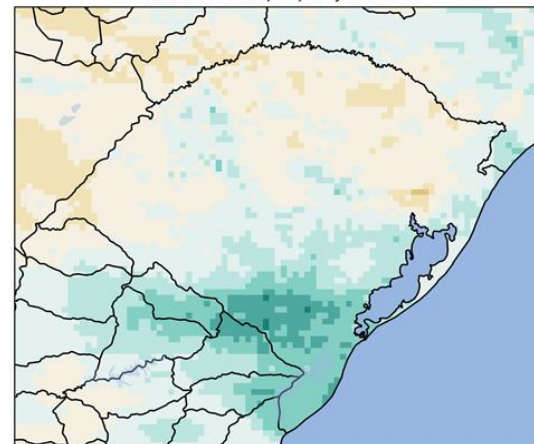
Anomalia - Precipitação - Maio 2023



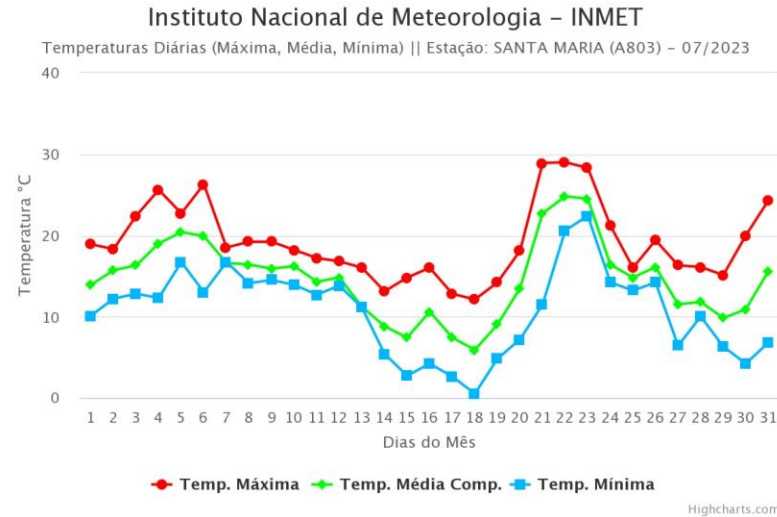
Anomalia - Precipitação - Junho 2023



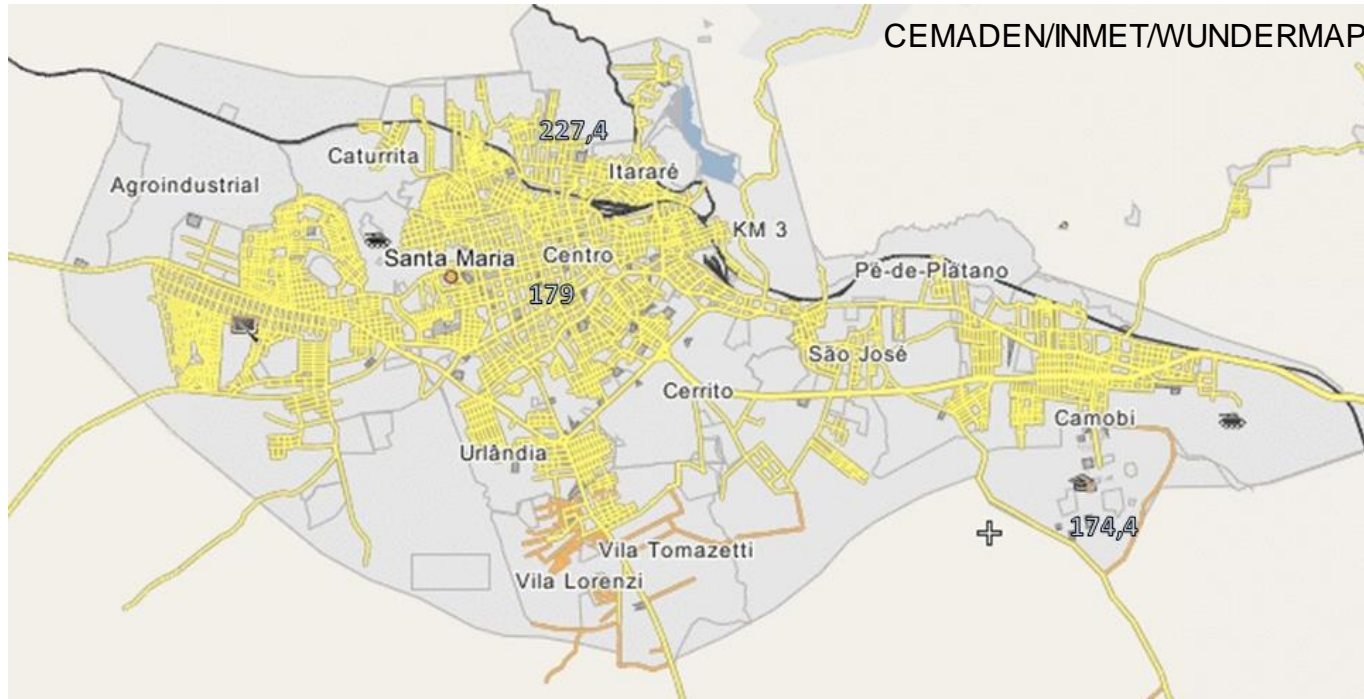
Anomalia - Precipitação - Julho 2023



Condições observadas em Julho/2023



Precipitação mensal em Julho - Santa Maria



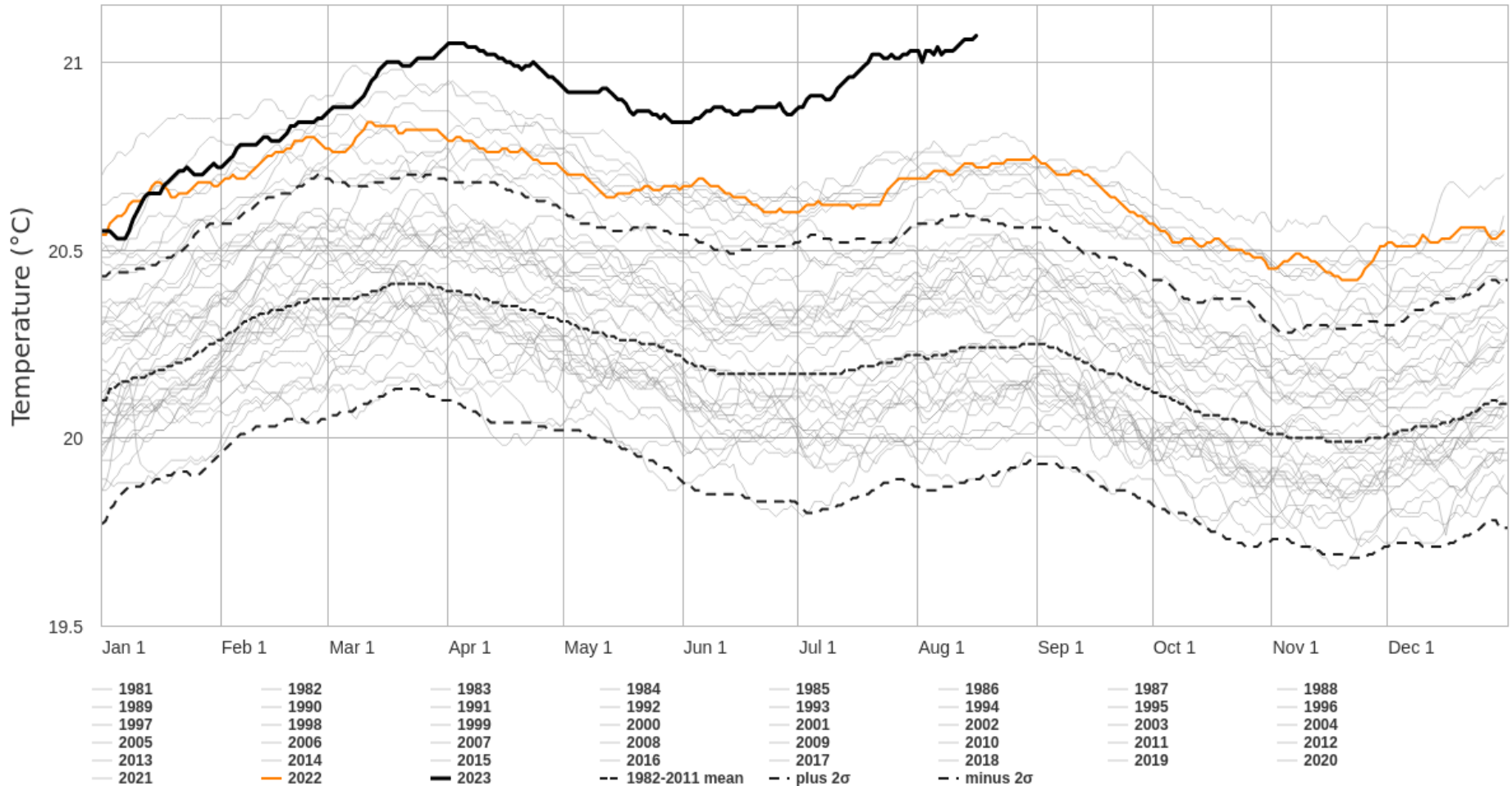
Condições oceânicas

World (60S-60N)

SST World (60S-60N)

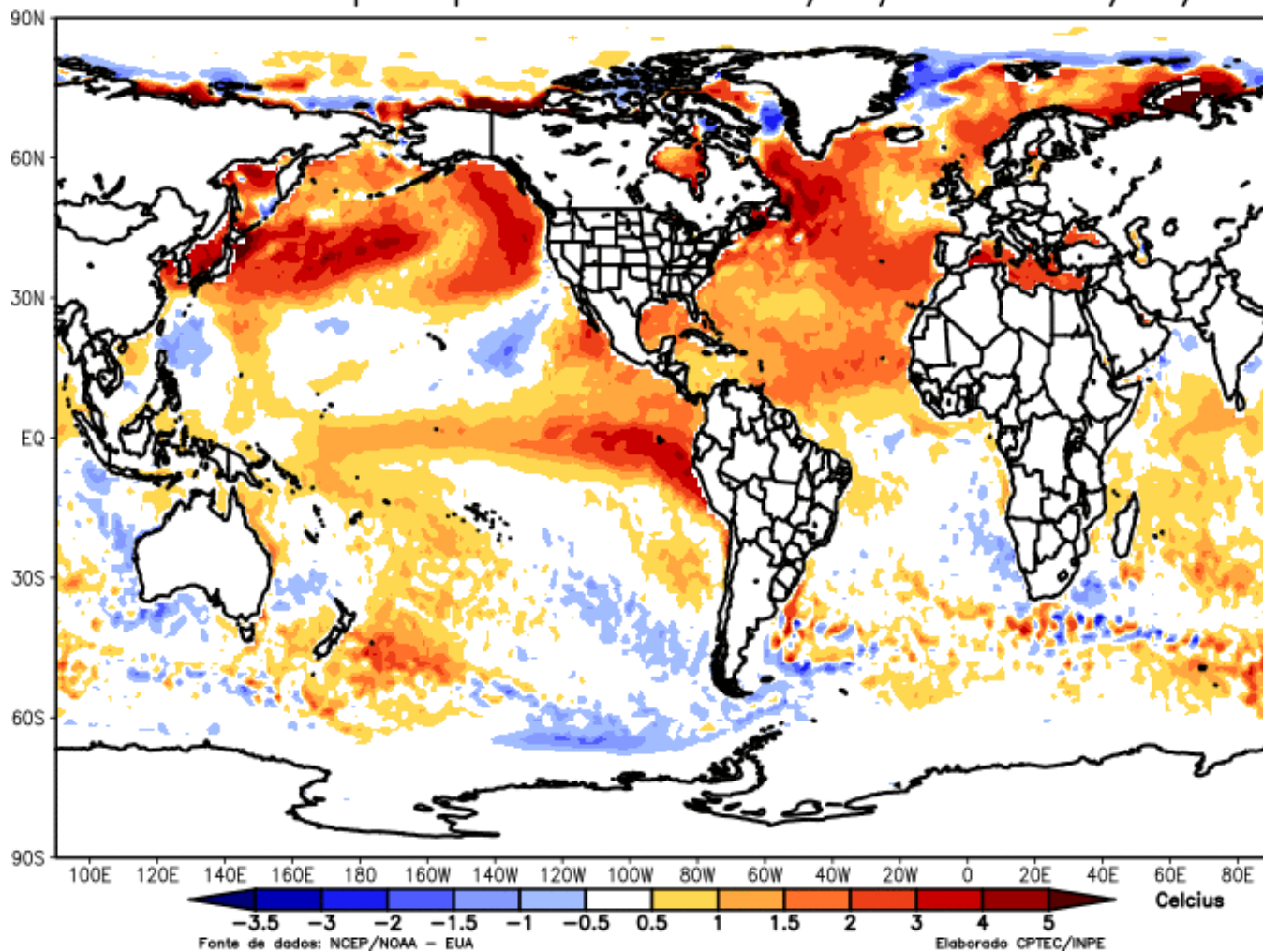
[Export Chart](#)

NOAA OISST V2.1 | ClimateReanalyzer.org, Climate Change Institute, University of Maine



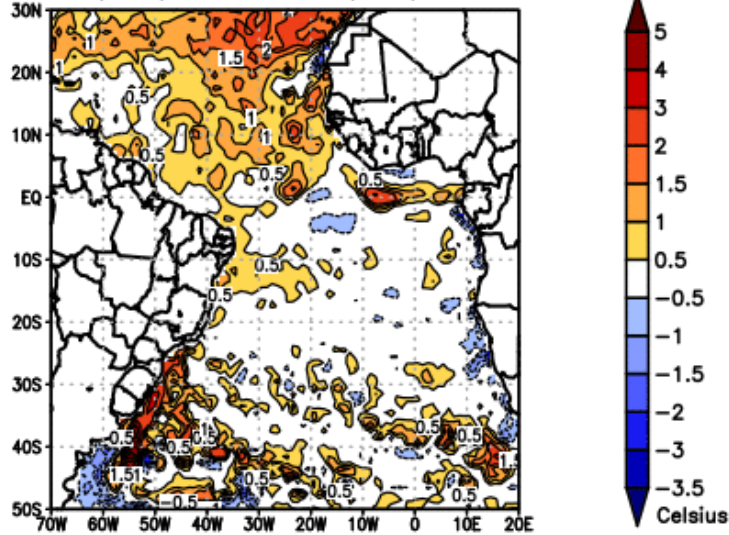
Condições oceânicas

Anomalia de Temp. Superfície do Mar 30/07/2023 a 05/08/2023

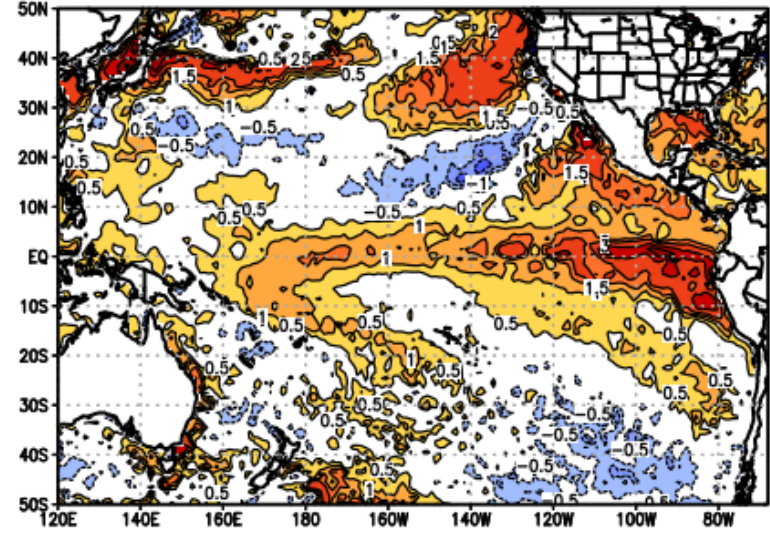
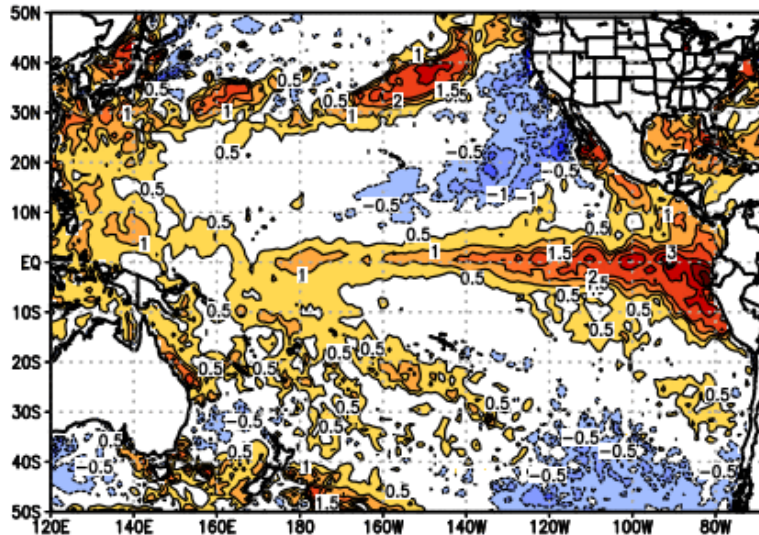
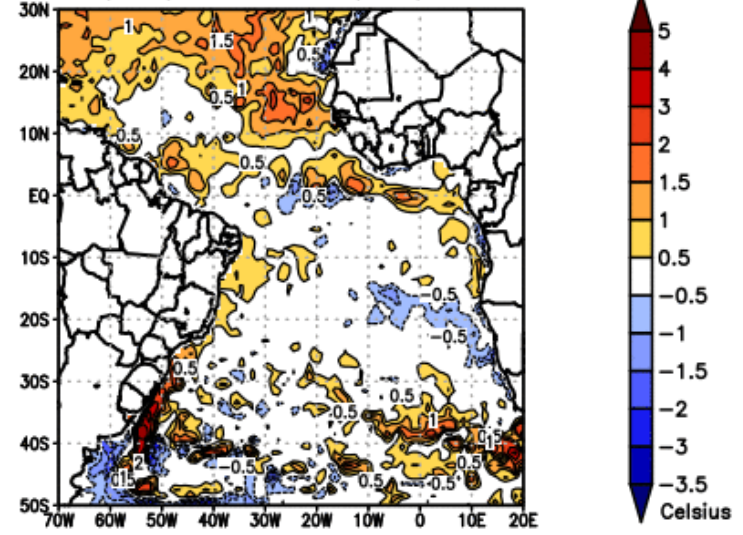


Condições oceânicas

Anomalia de Temperatura da Superfície do Mar
03/07/2023 a 10/07/2023

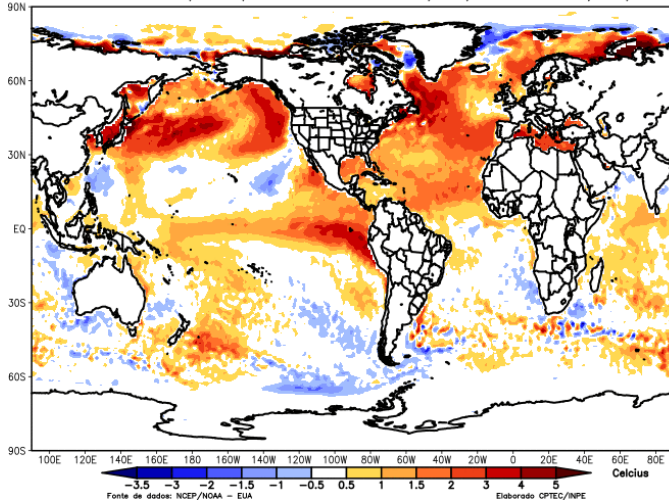


Anomalia de Temperatura da Superfície do Mar
07/08/2023 a 14/08/2023

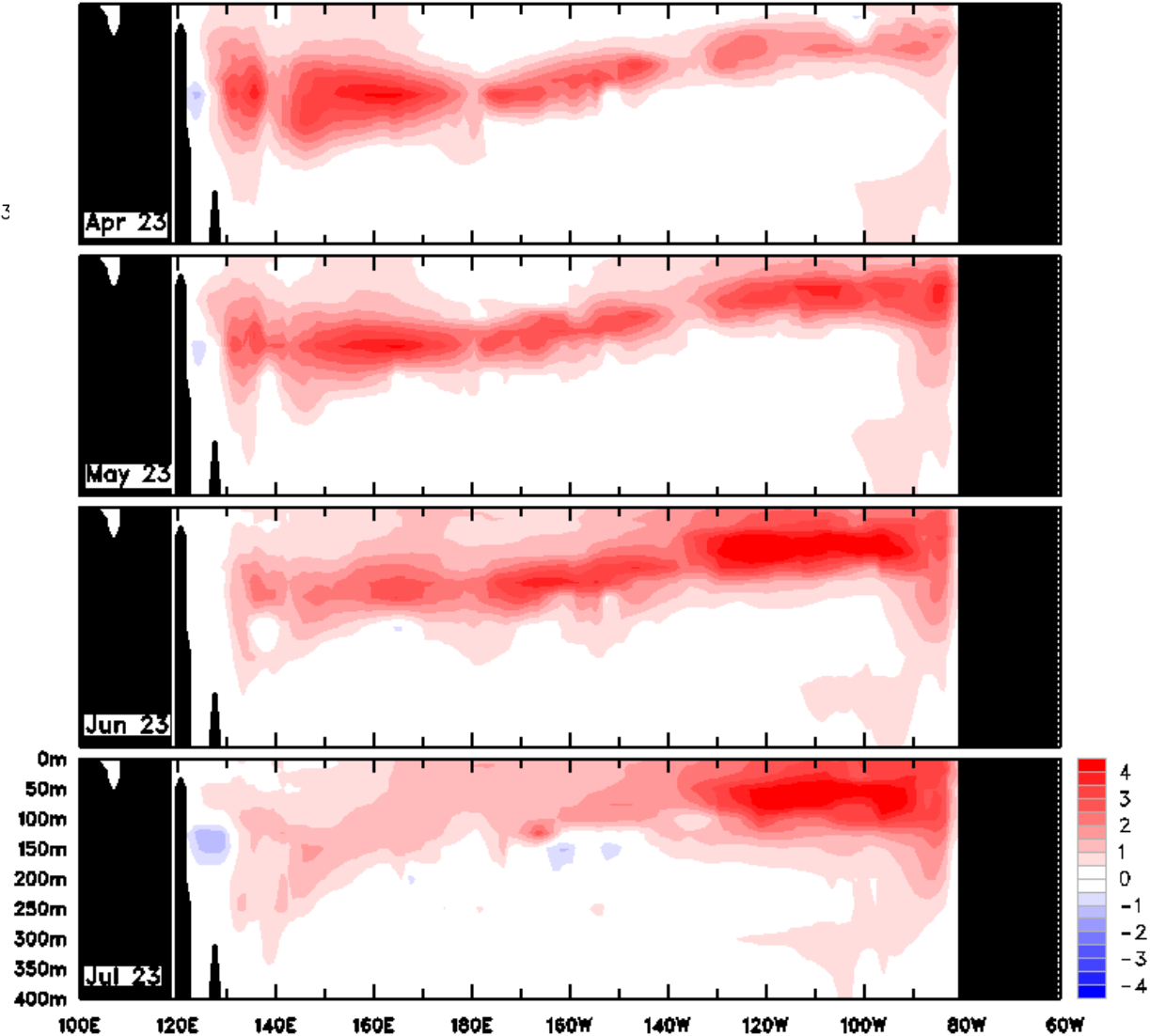


Condições oceânicas

Anomalia de Temp. Superfície do Mar 30/07/2023 a 05/08/2023



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

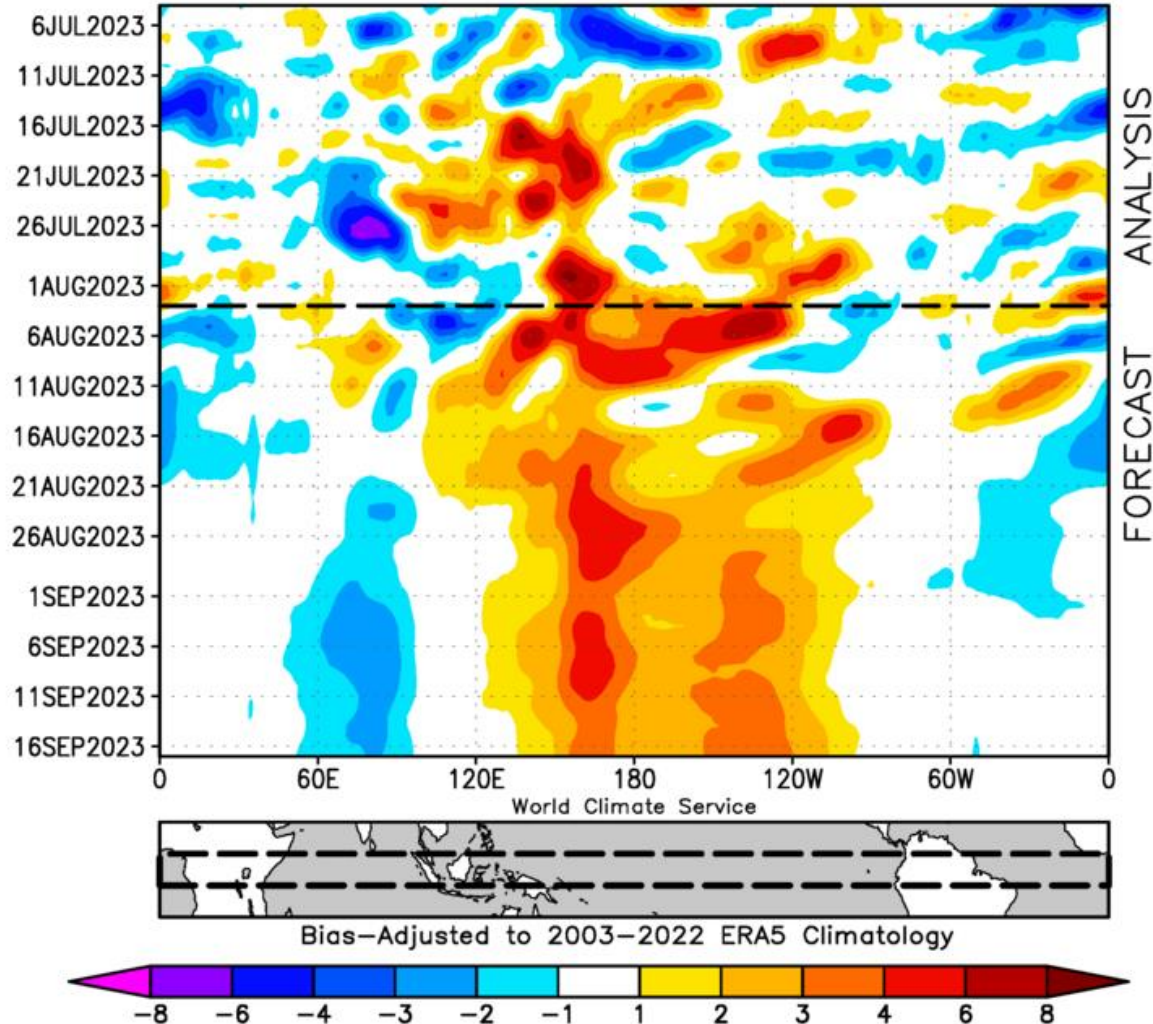


Analysis done Aug 10 22:02

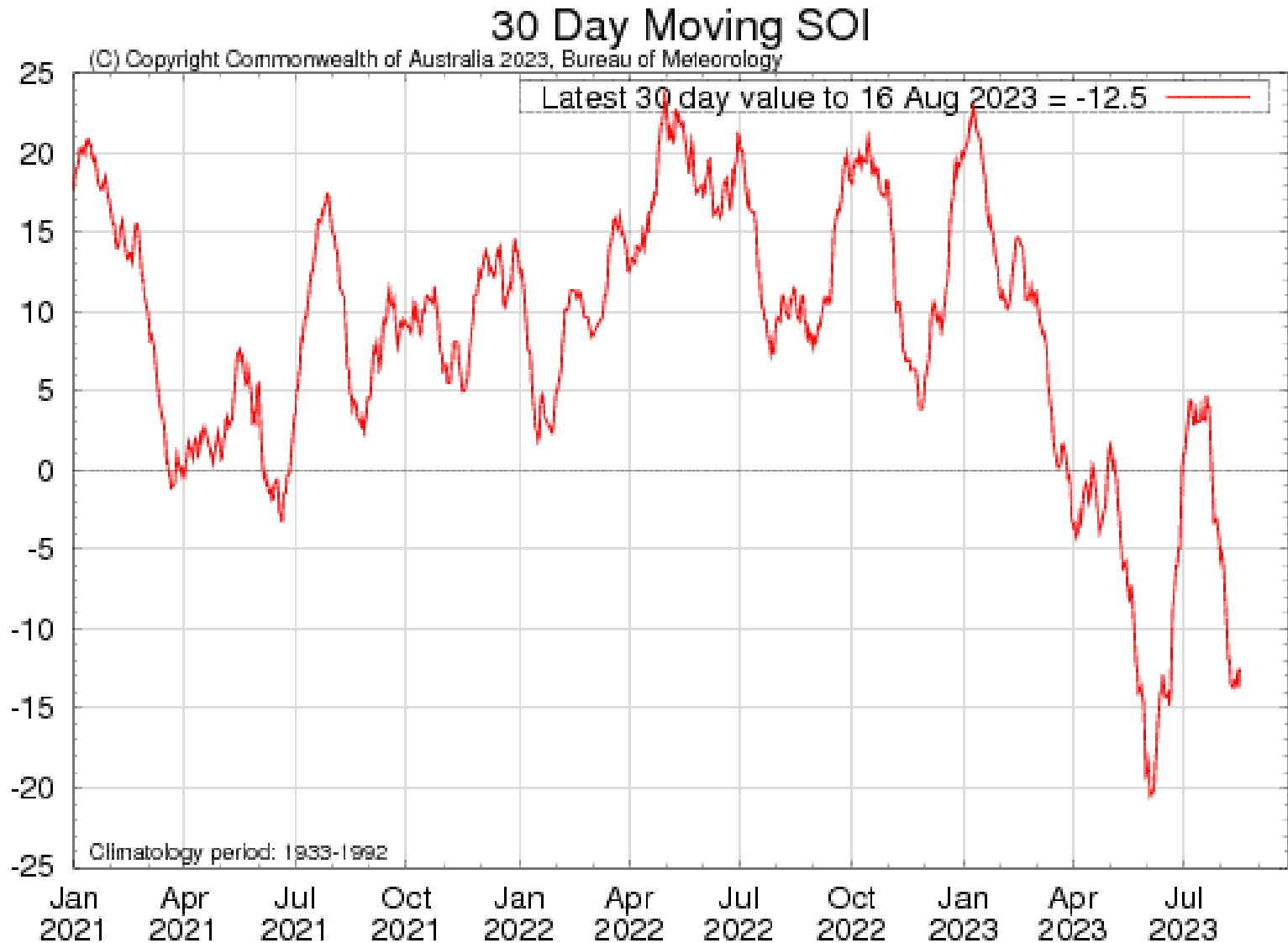
Condições oceânicas

Ensemble Mean 850mb Zonal Wind Anomaly (m/s)
5°S–5°N Average

ERA5/ECMWF Analysis and ECMWF Initialized 00UTC 03AUG2023



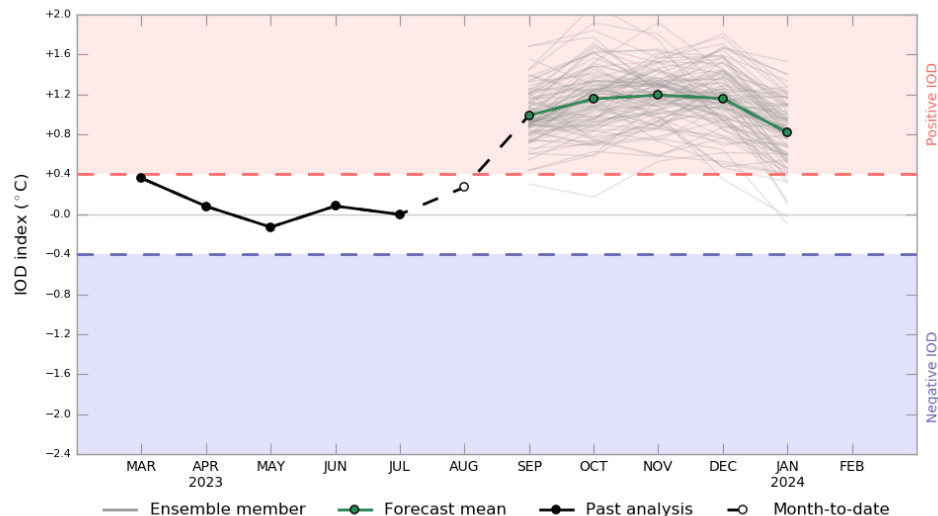
Condições oceânicas



Índices oceânicos

IOD

Monthly sea surface temperature anomalies for IOD region

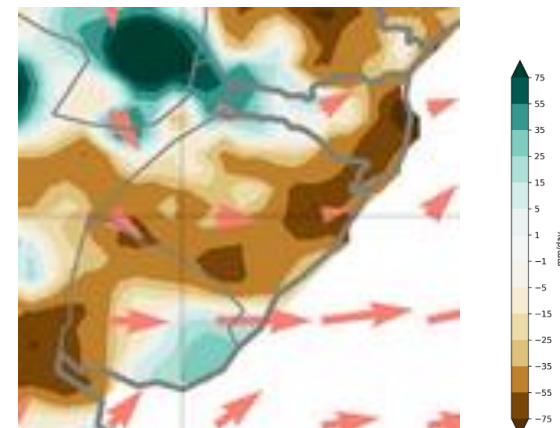
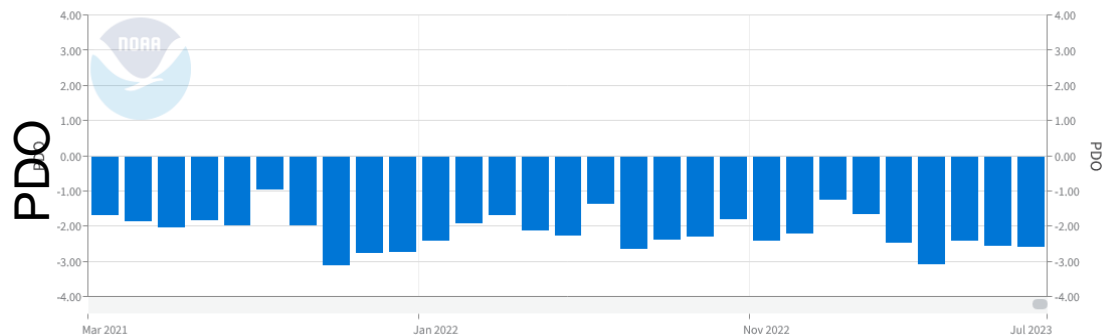


www.bom.gov.au/climate
Commonwealth of Australia 2023, Australian Bureau of Meteorology

Model run: 12 Aug 2023
Model: ACCESS-S2
Base period 1981-2018



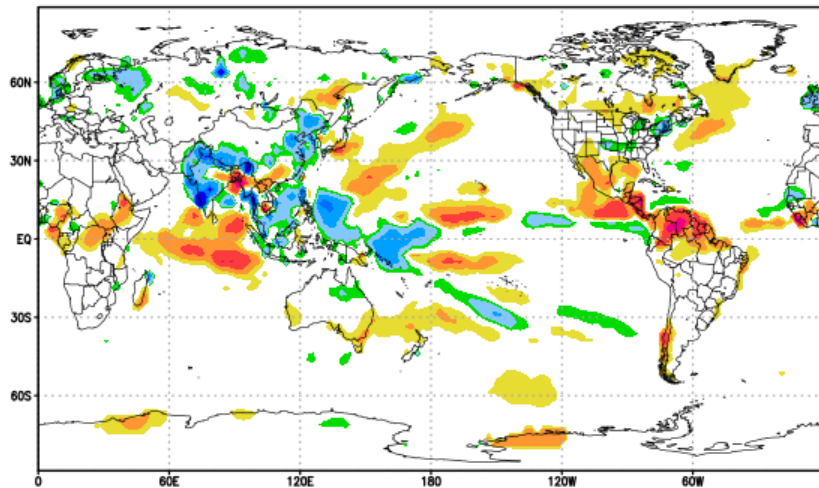
Pacific Decadal Oscillation (PDO)



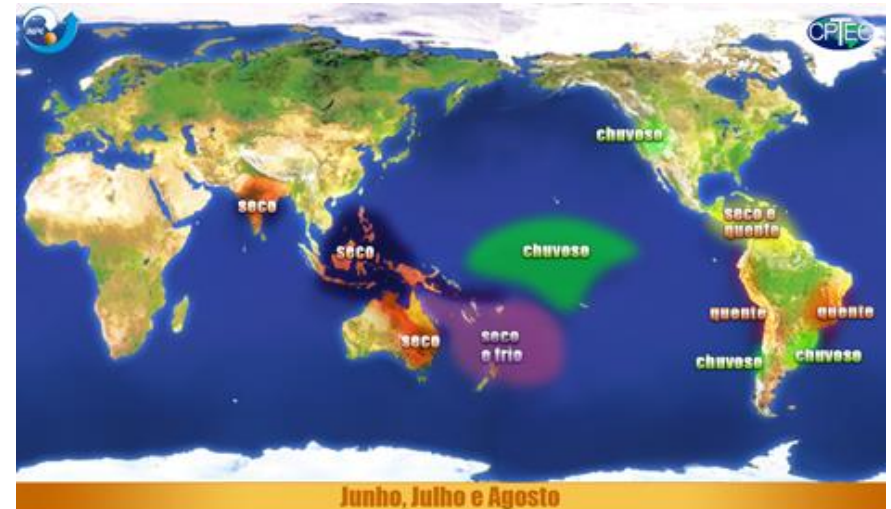
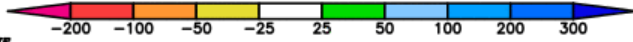
Observado x Efeito El Niño

Bacia Amazônica mais seca
Pacífico Equatorial mais úmido

C P T E C - I N P E
Anomalia de Precipitacao
COMB - JUL2023

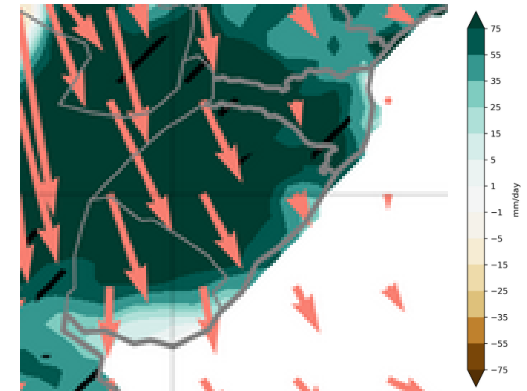
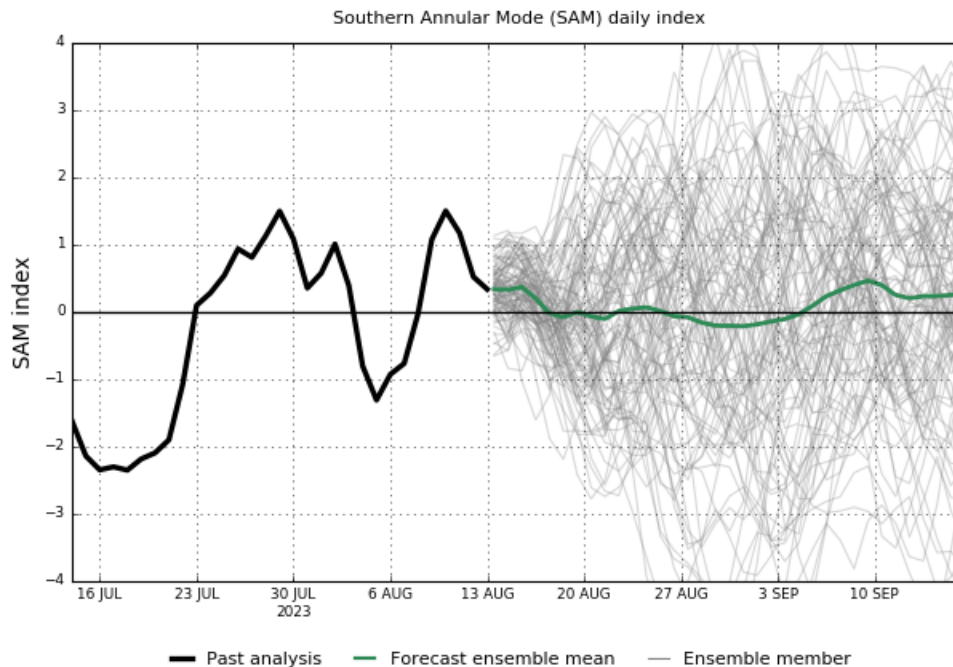
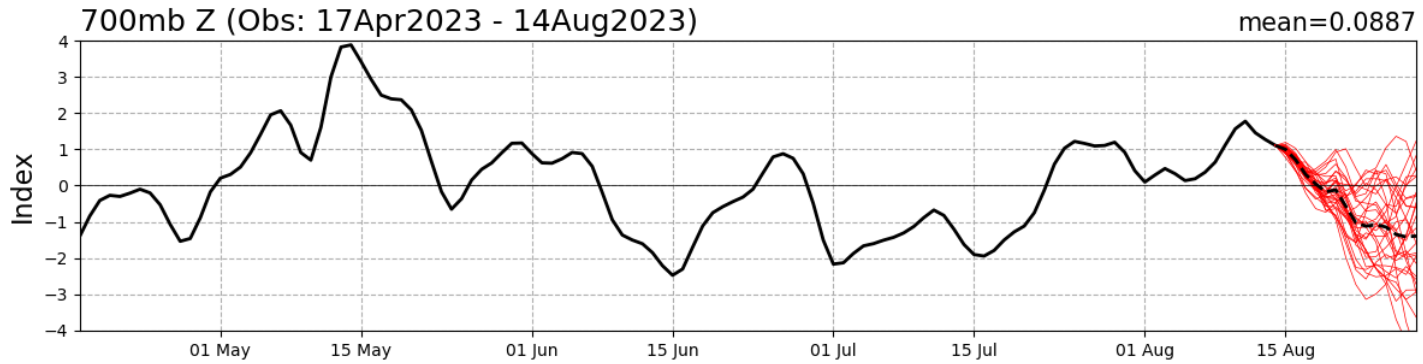


Fonte: CMAP/XIE



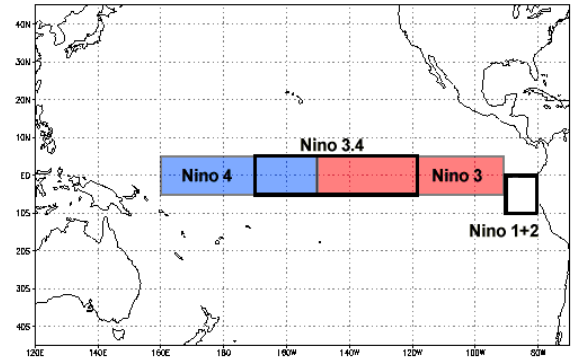
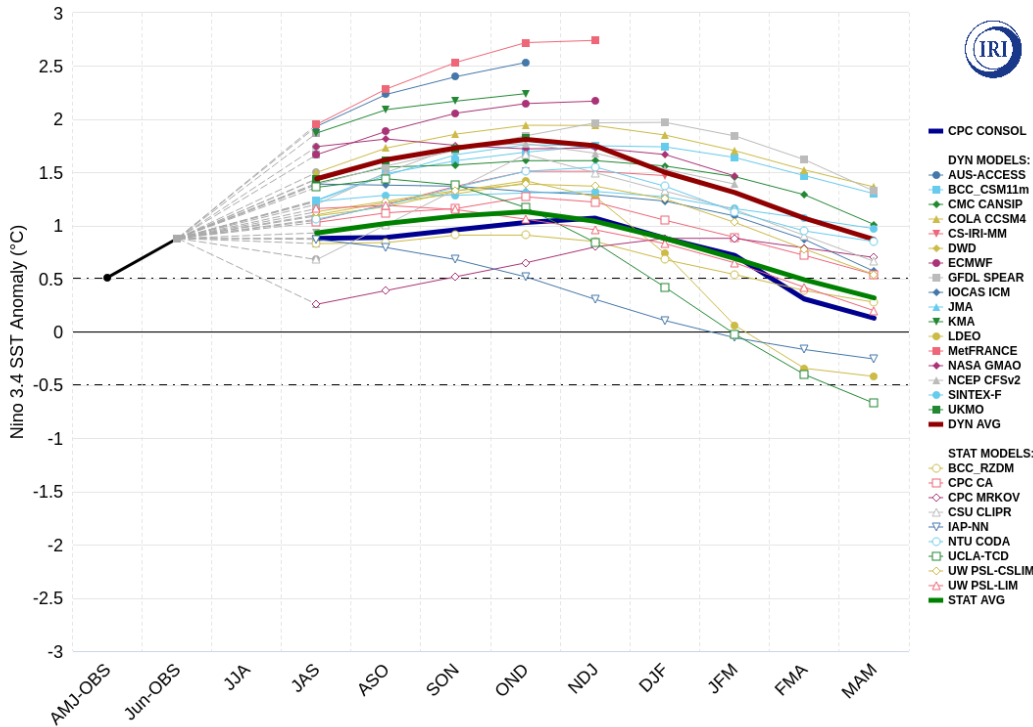
Índice atmosférico (AAO)

AAO Index: Observed & GEFS Forecasts

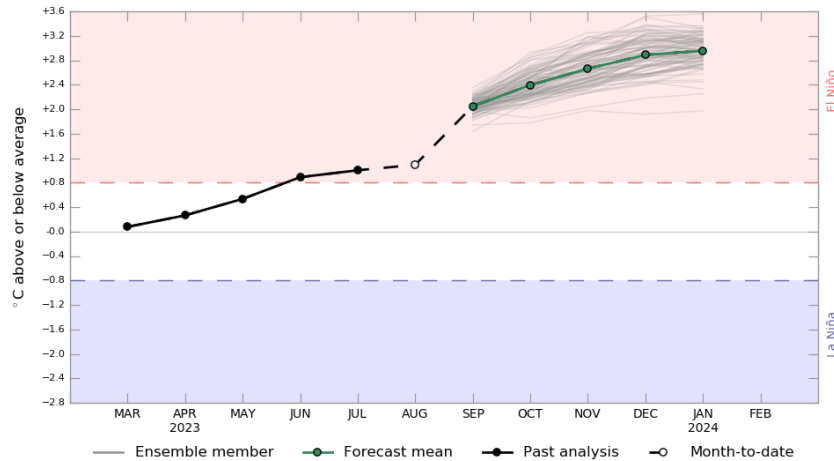


Previsões do ENOS

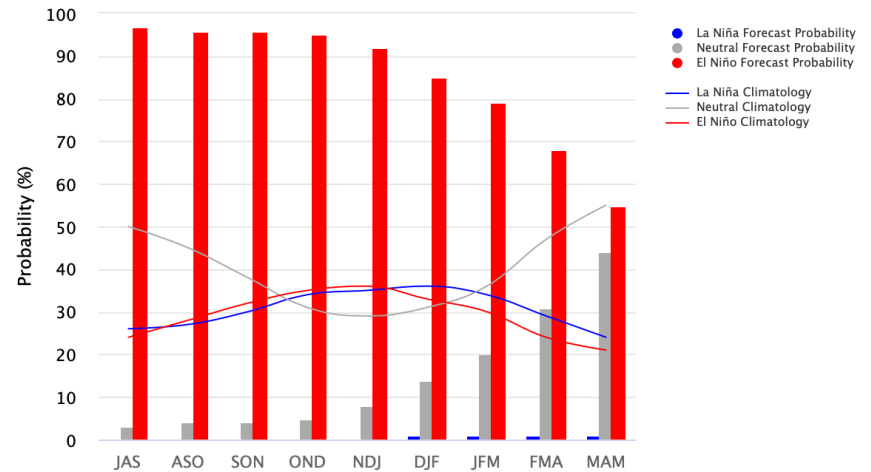
Model Predictions of ENSO from Jul 2023



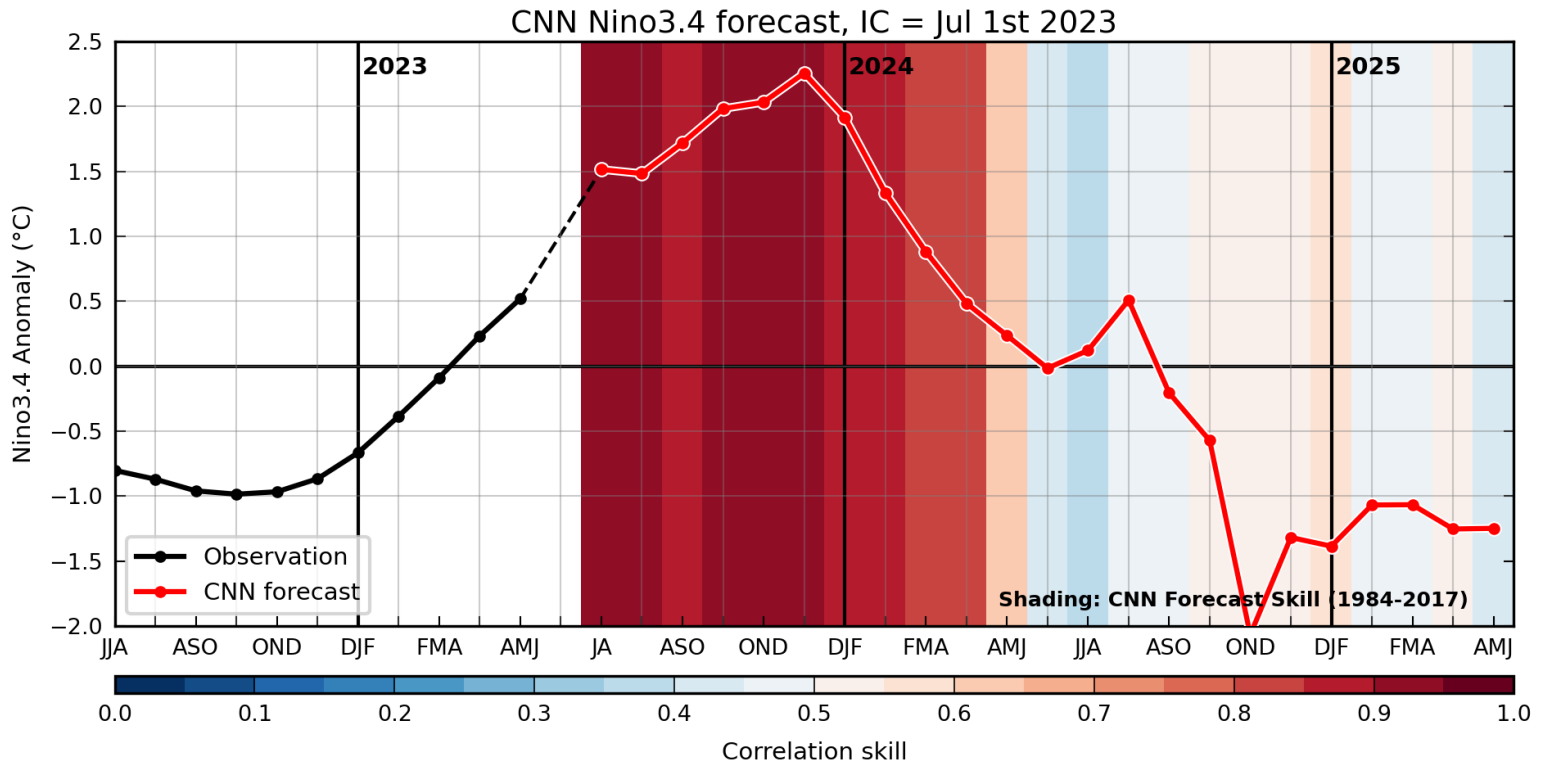
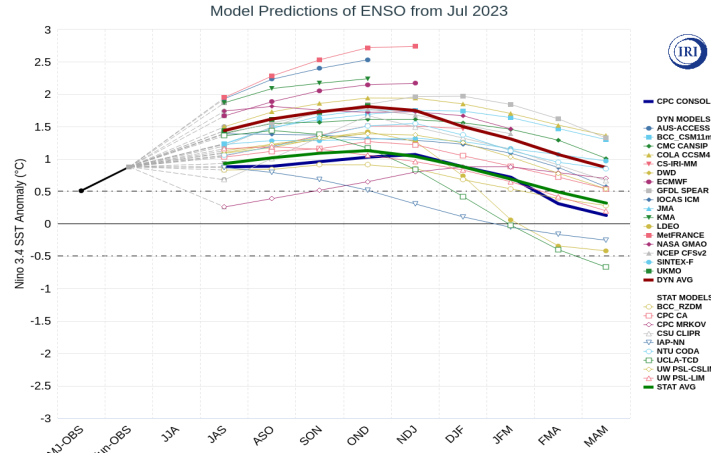
Monthly sea surface temperature anomalies for NINO3.4 region



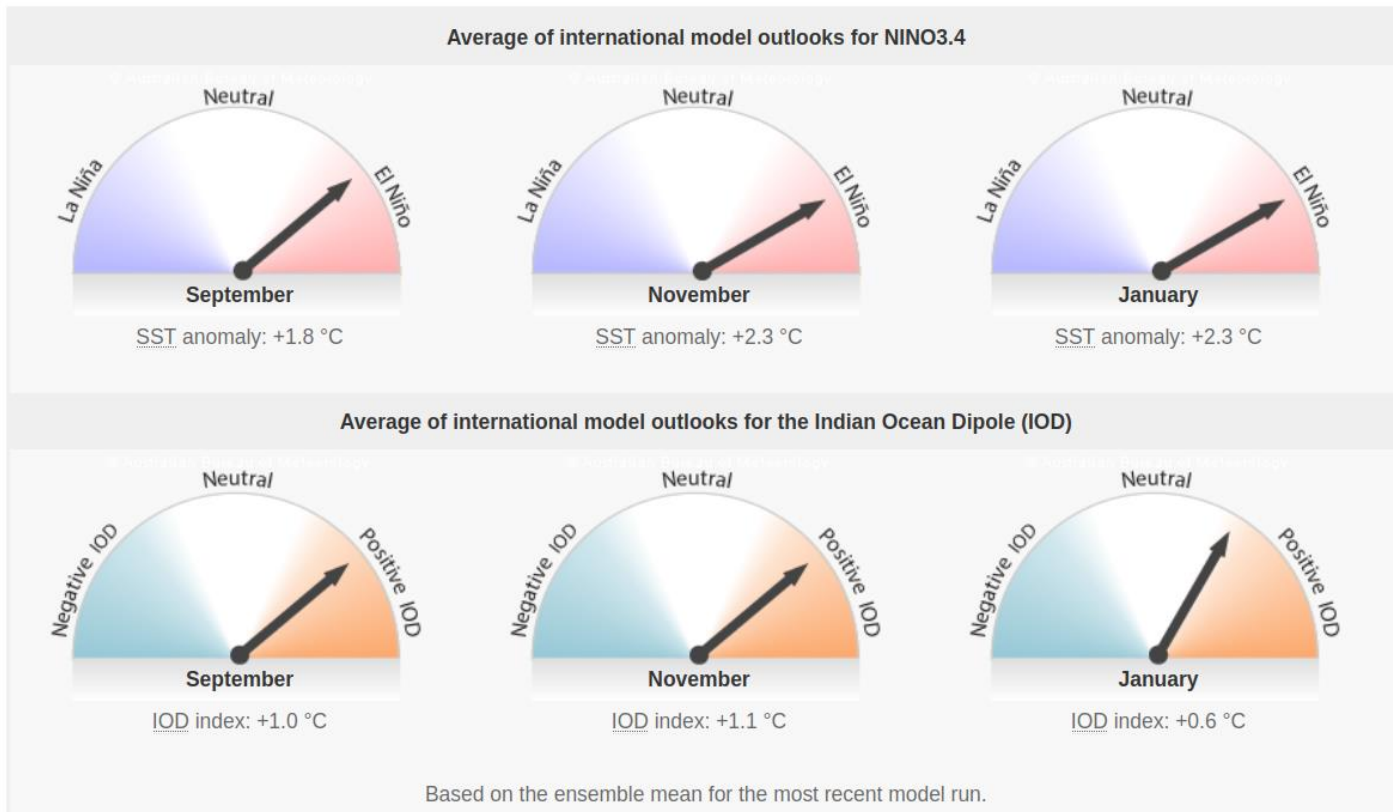
ENSO state based on NINO3.4 SST Anomaly Neutral ENSO: -0.5 °C to 0.5 °C



Previsões do ENOS



Previsões do ENOS

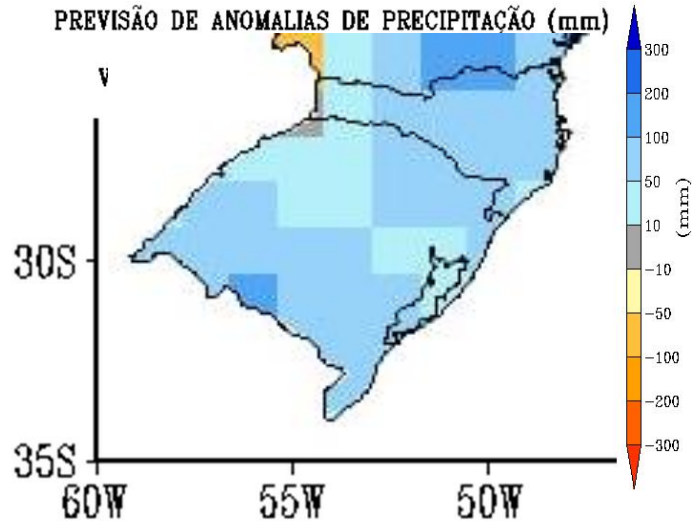


The arrows on the dials indicate the combined average of monthly outlooks from a survey of international global climate models. Note that the individual model runs vary around the average.

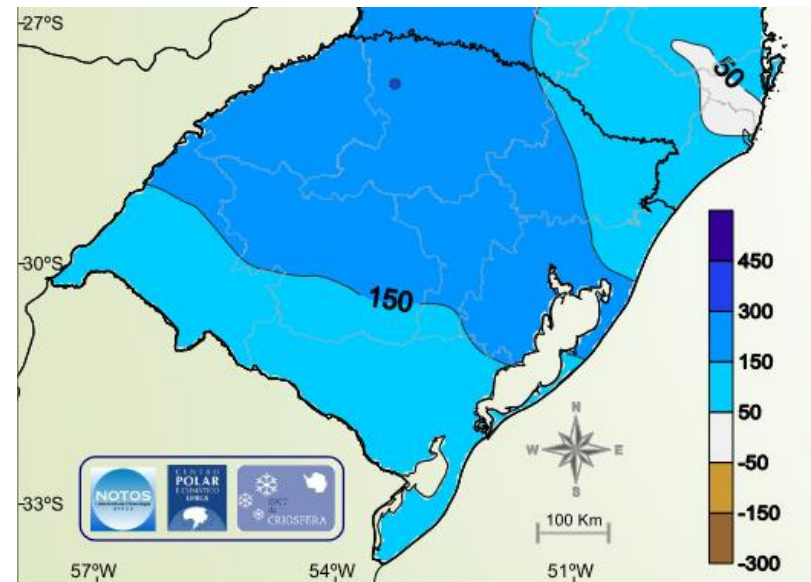
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Previsões sazonais

Previsões sazonais (ASO) - Precipitação (anomalias)

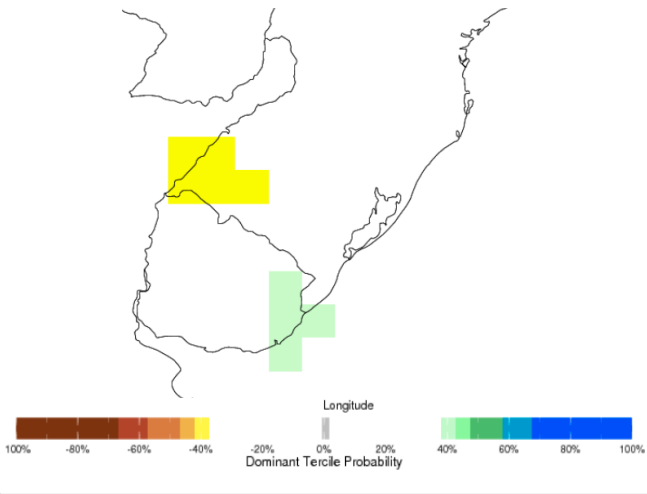


MoReClima-SUL

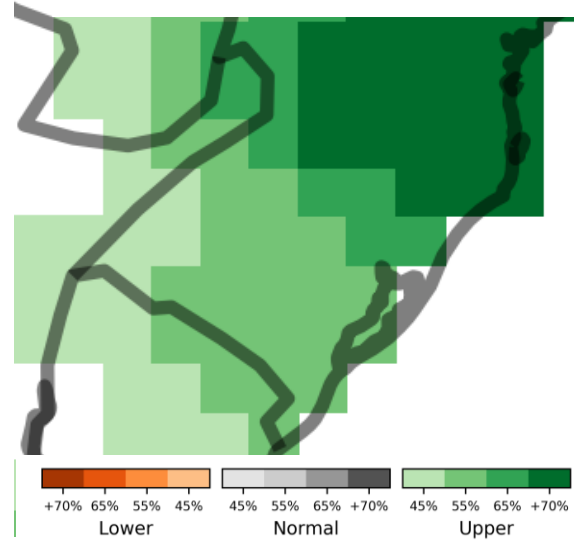


Previsões sazonais (ASO) - Precipitação (probabilística)

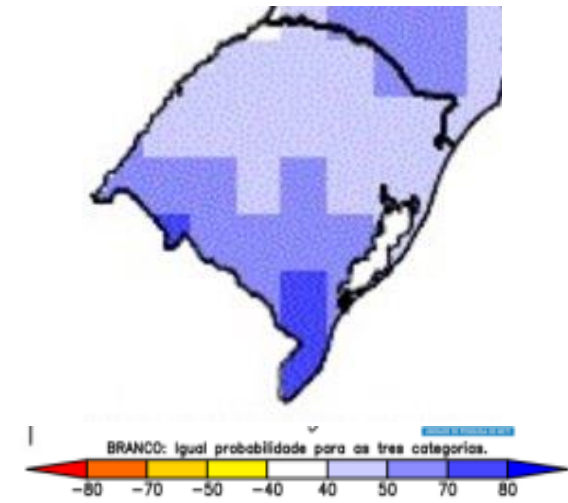
Mutimodelo IRI



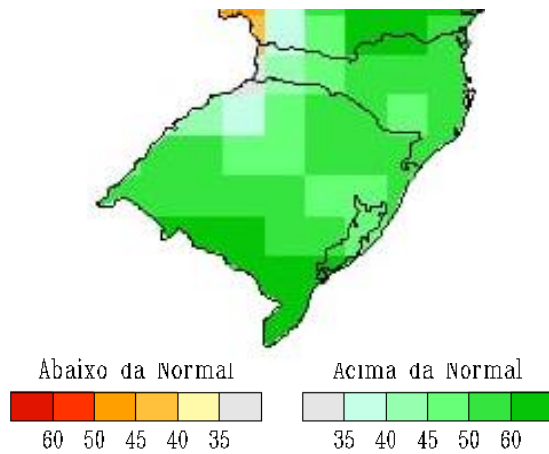
CIMA-CONICET-UBA



Multimodelo [CPTEC/INMET/FUNCEME](#)



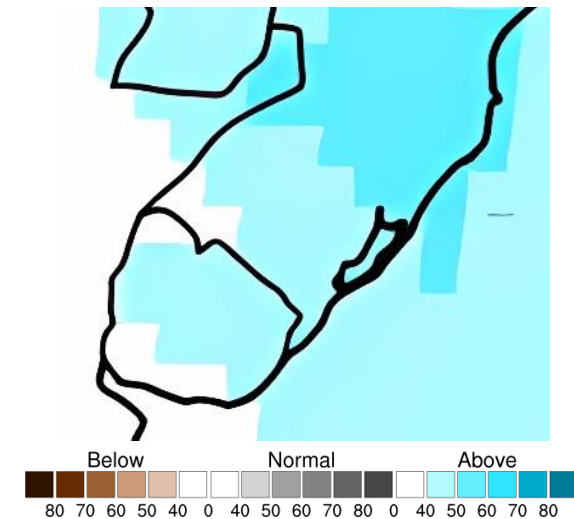
INMET



Multissistema C3S (ECMWF)

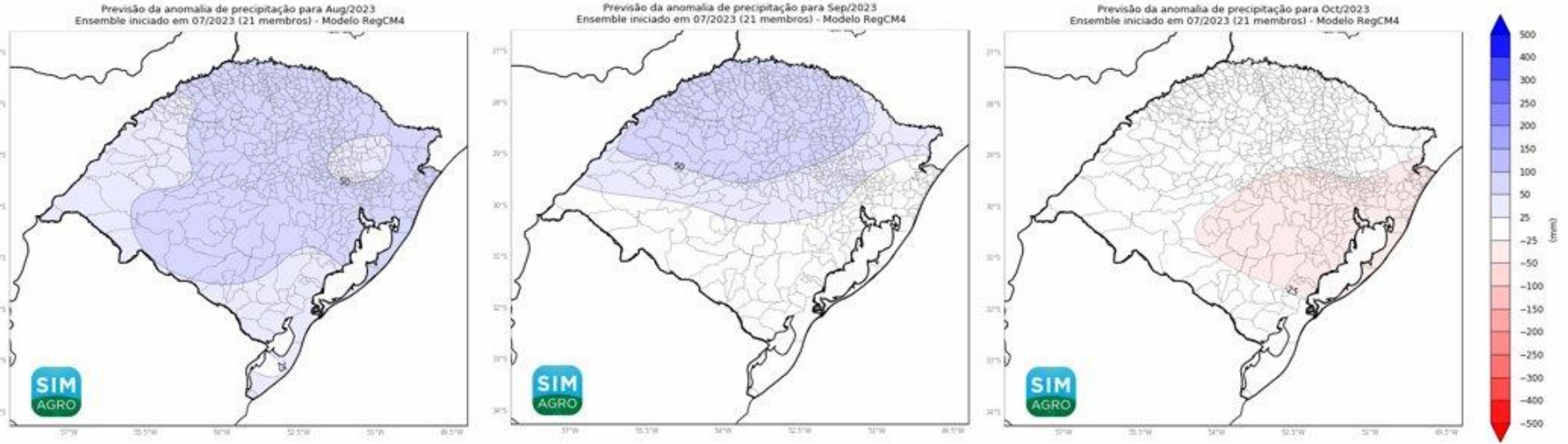


APCC

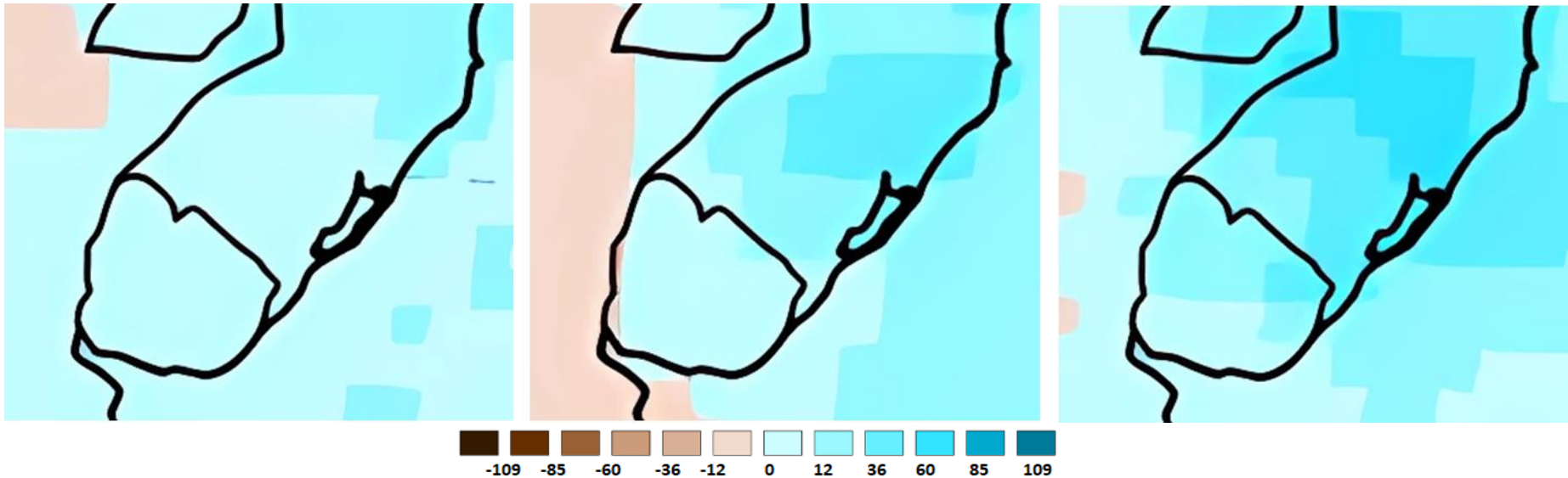


Previsões mensais - Precipitação (mm)

RegCM4

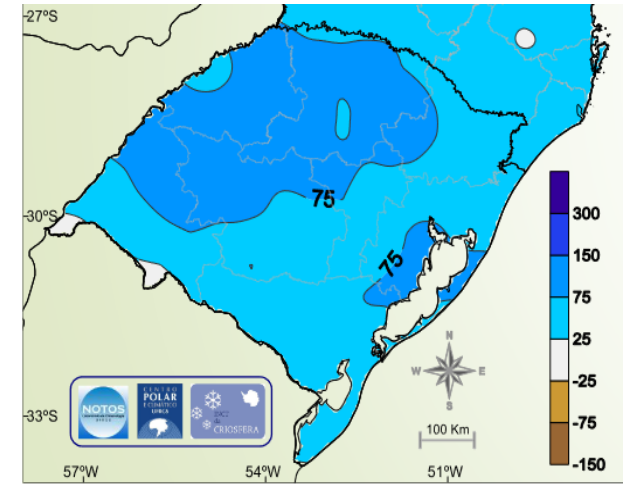
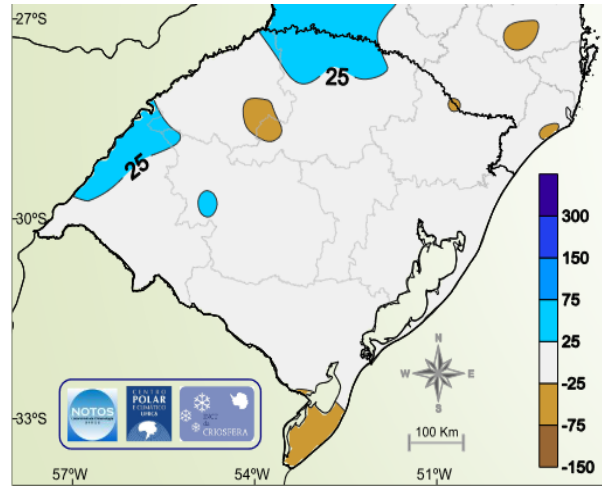
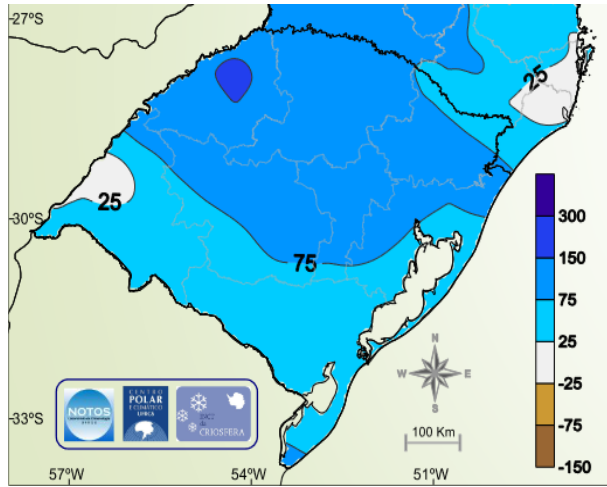


APCC

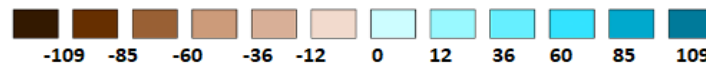
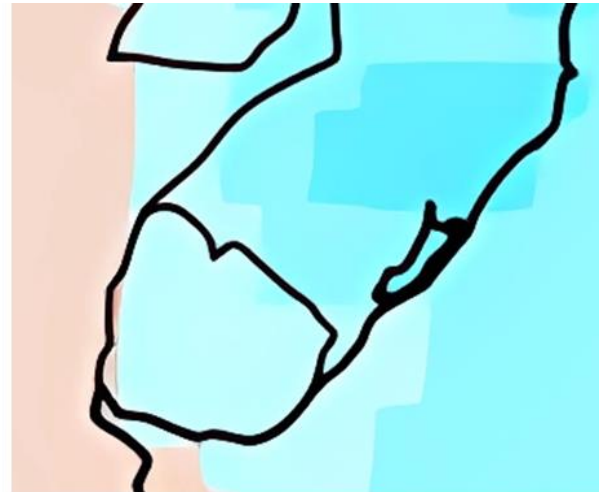


Previsões mensais - Precipitação (mm)

MoreClima

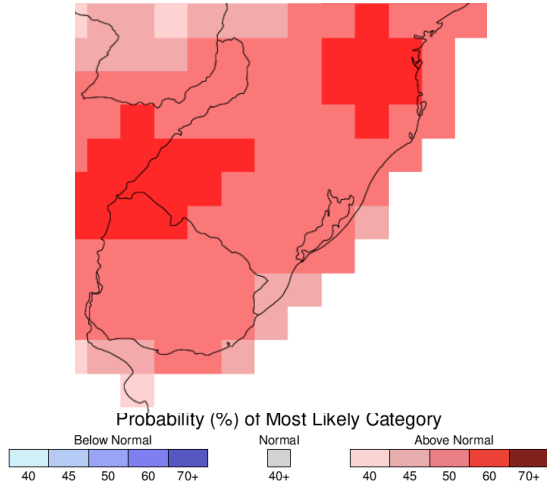


APCC

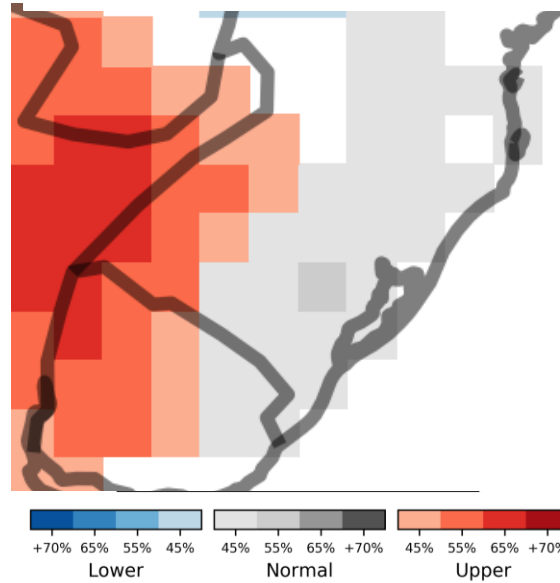


Previsões sazonais (ASO) - Temperatura (probabilística)

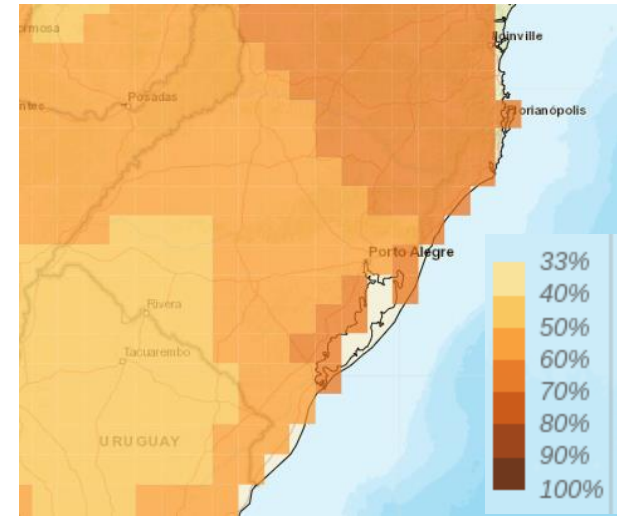
Multimodelo IRI



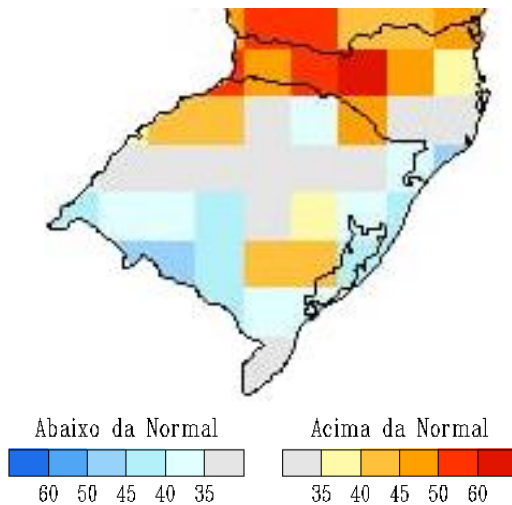
CIMA-CONICET-UBA



CRC-SAS (Ensemble NMME)



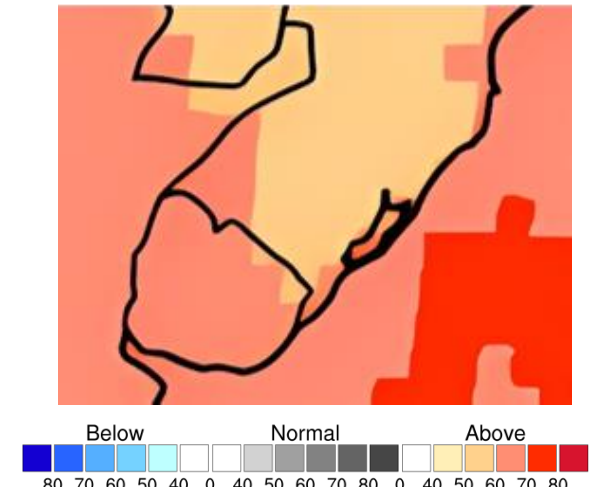
INMET



Multissistema C3S (ECMWF)



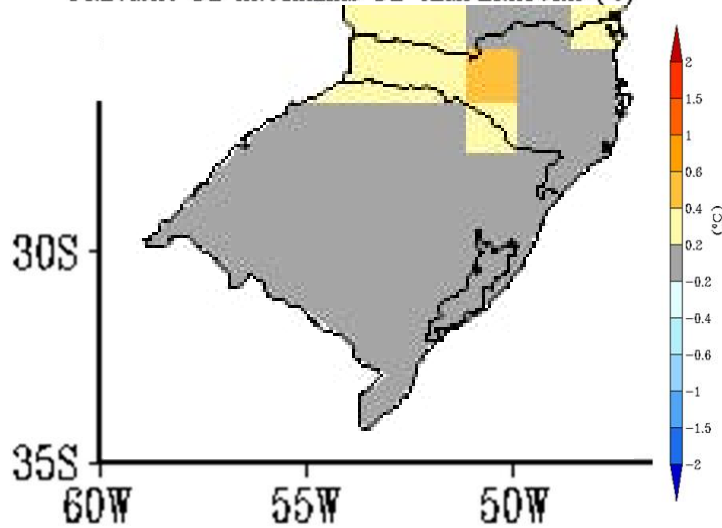
APCC



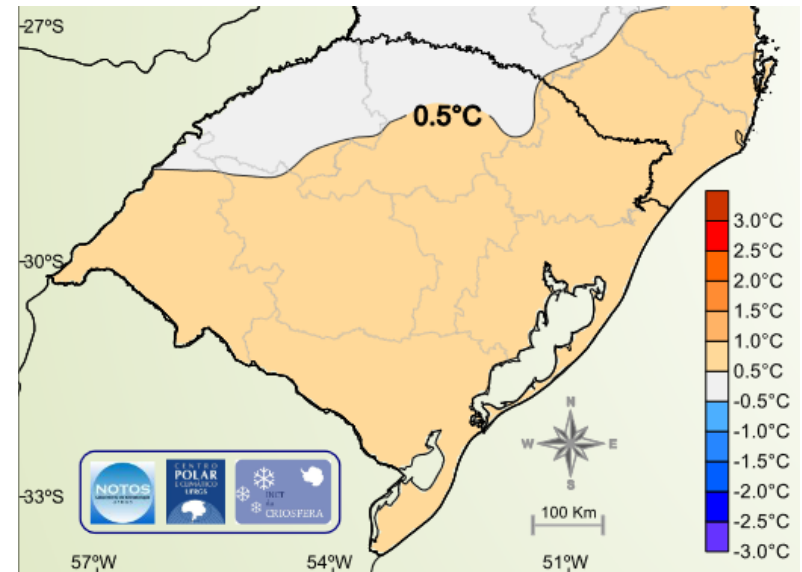
Previsões sazonais

Previsões sazonais (ASO) - Temperatura (anomalias)

PREVISÃO DE ANOMALIAS DE TEMPERATURA (°C)



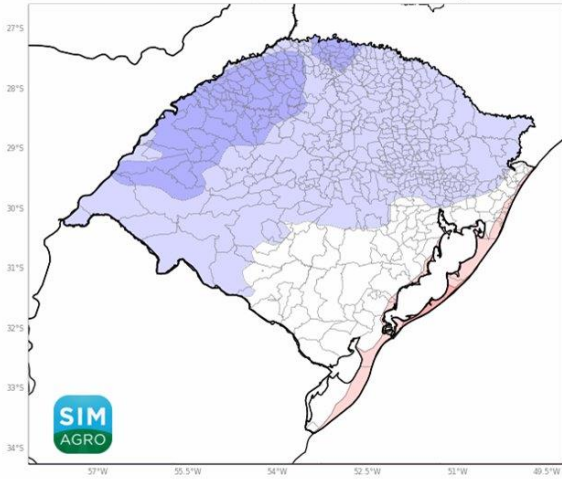
MoReClima-SUL



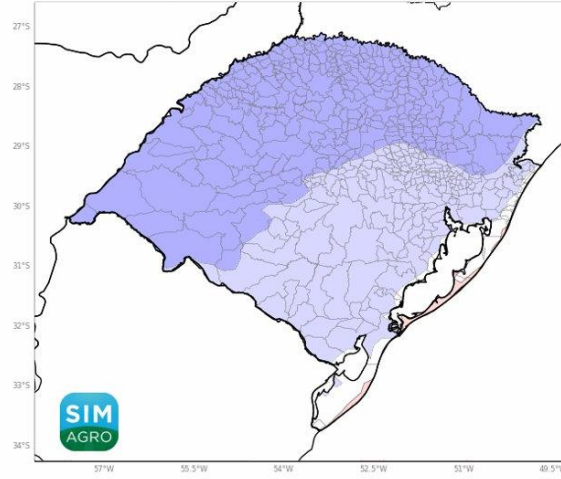
Previsões mensais – Temperatura (°C)

RegCM4

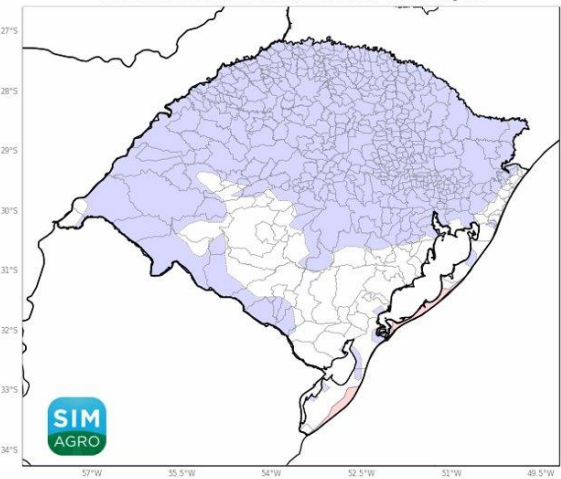
Previsão da anomalia de temperatura média do ar a 2m para Aug/2023
Ensemble iniciado em 07/2023 (26 membros) - Modelo RegCM4



Previsão da anomalia de temperatura média do ar a 2m para Sep/2023
Ensemble iniciado em 07/2023 (26 membros) - Modelo RegCM4



Previsão da anomalia de temperatura média do ar a 2m para Oct/2023
Ensemble iniciado em 07/2023 (26 membros) - Modelo RegCM4

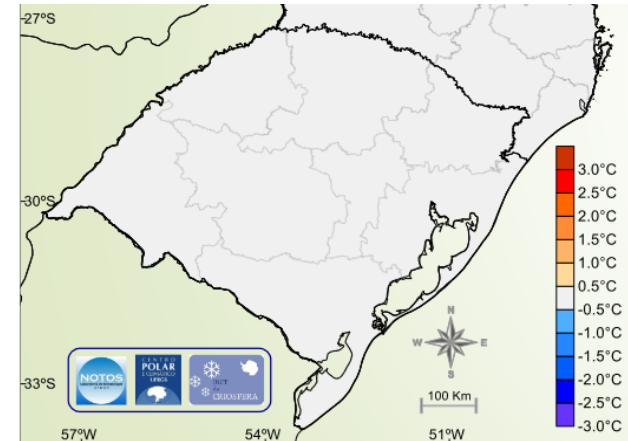
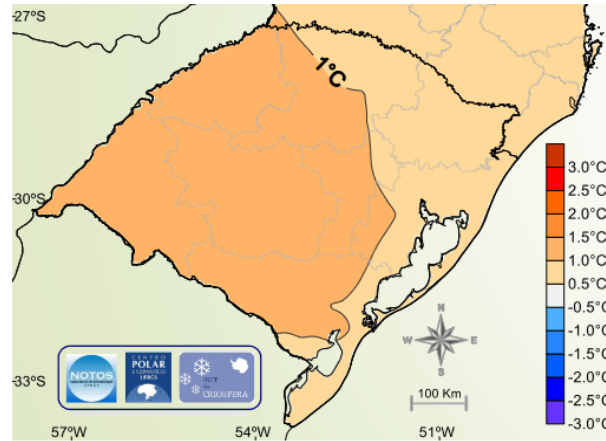
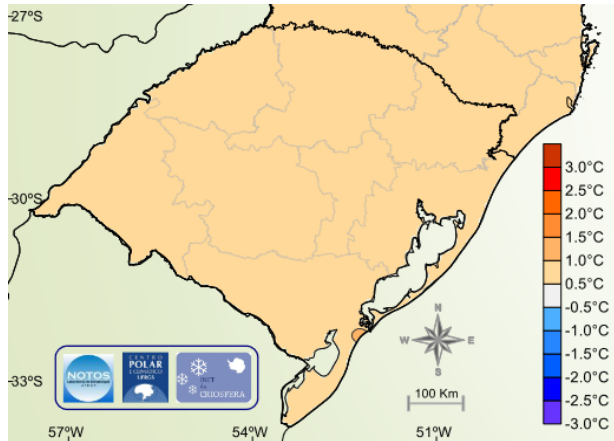


APCC



Previsões mensais – Temperatura (°C)

MoreClima

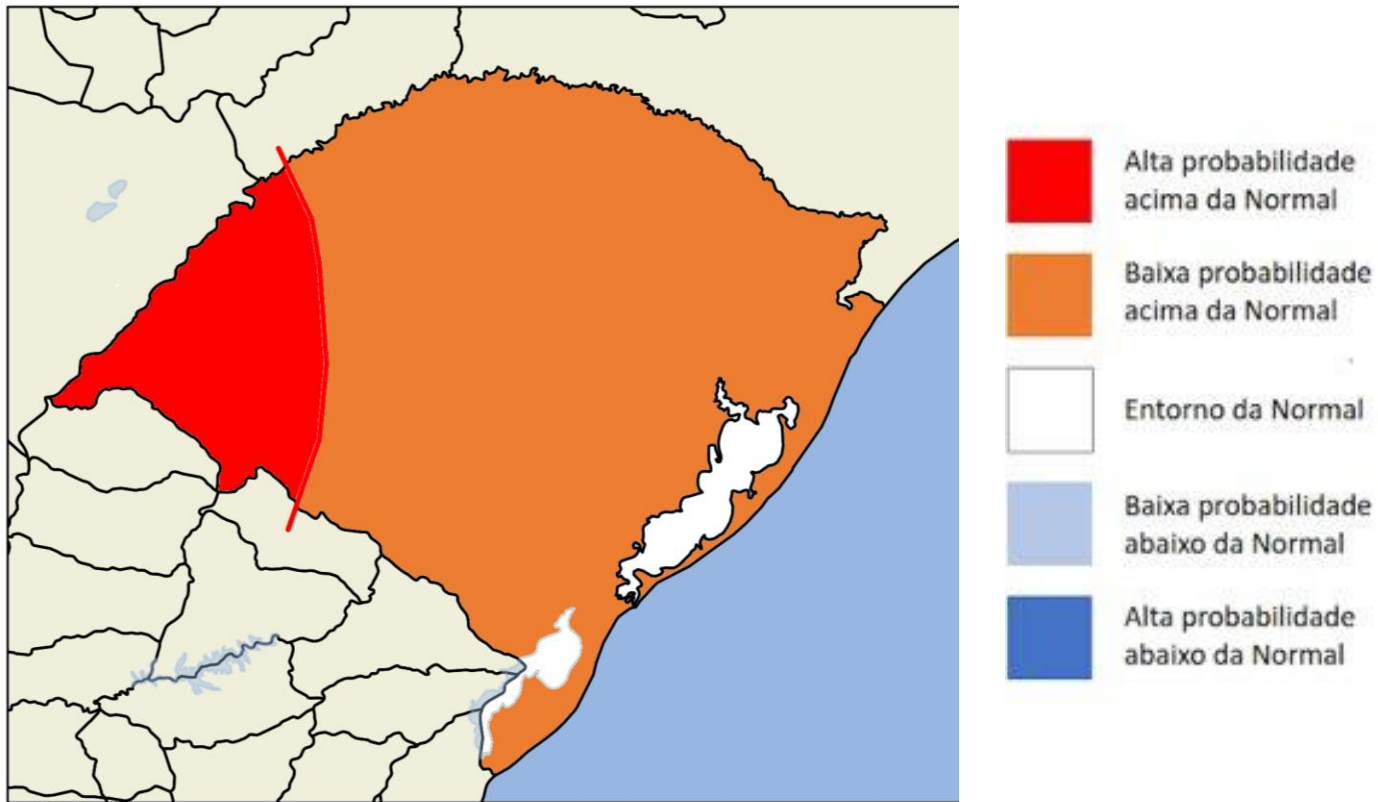


APCC



Previsão por consenso

Temperatura (ASO)



Previsão por consenso

Precipitação (ASO)

