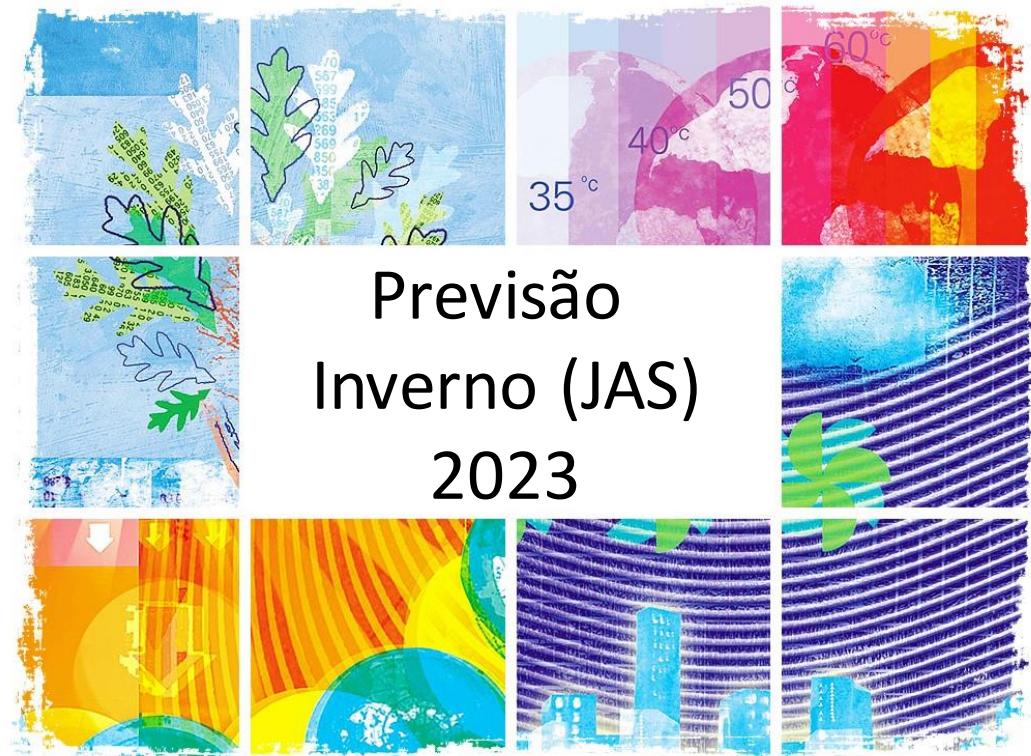


XI Reunião Climática Mensal



Verificação da previsão para AMJ

Previsão por consenso realizada em Março de 2023

Precipitação

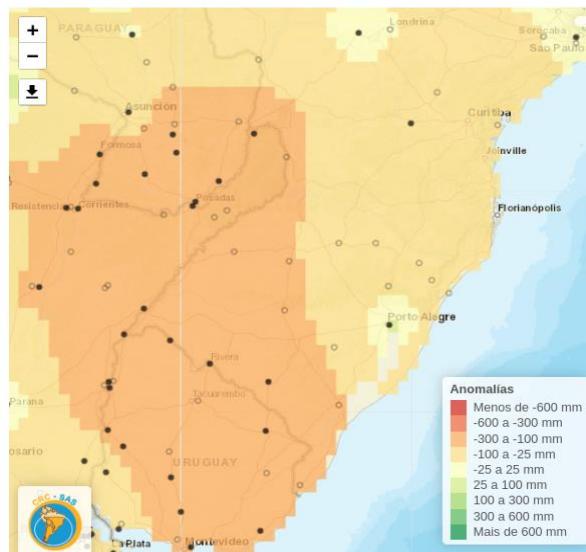
Previsto:



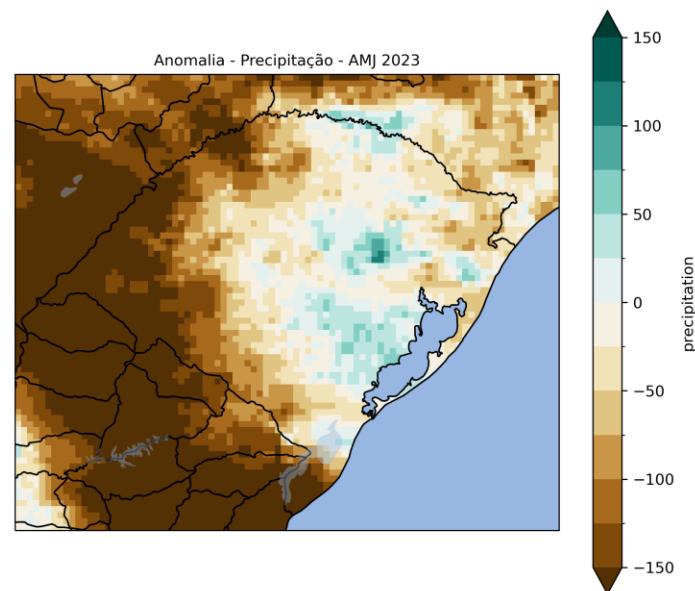
- Alta probabilidade acima da Normal
- Baixa probabilidade acima da Normal
- Entorno da Normal
- Baixa probabilidade abaixo da Normal
- Alta probabilidade abaixo da Normal

Anomalias de precipitação acumulada - 2023-04-01 até 2023-06-30

CRC-SAS:



Observado:

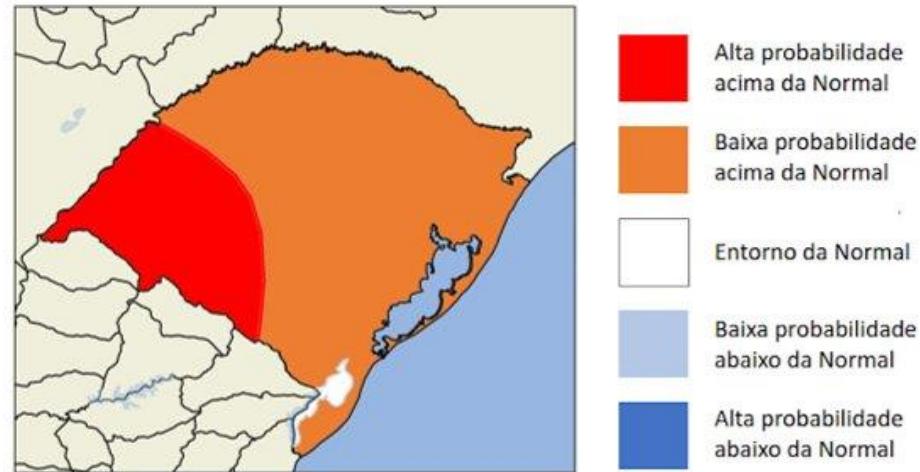


Verificação da previsão para AMJ

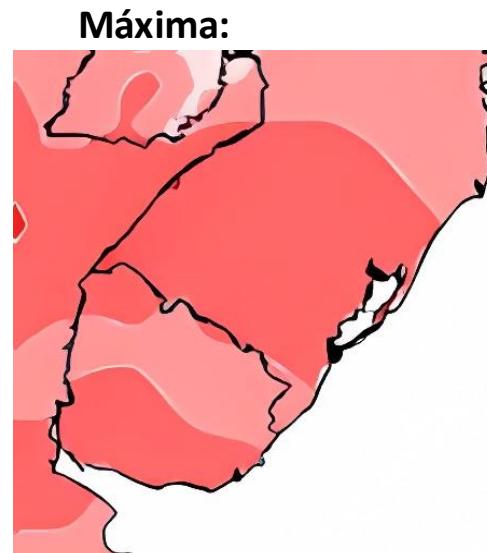
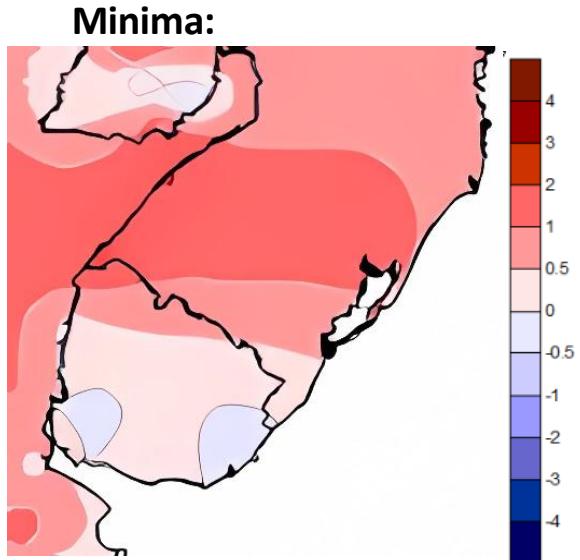
Previsão por consenso realizada em Março de 2023

Temperatura do ar

Previsto:



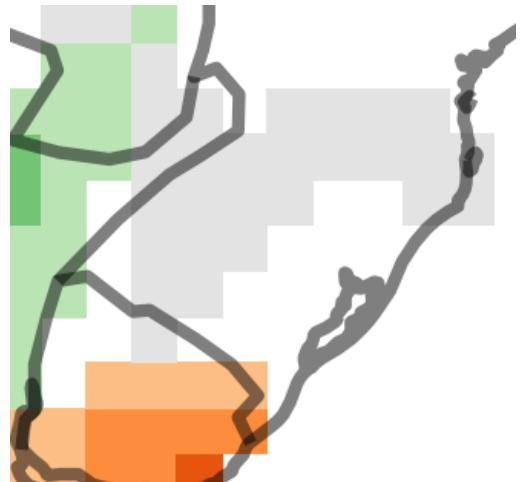
Observado:



Verificação dos modelos por tempo de antecedência

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

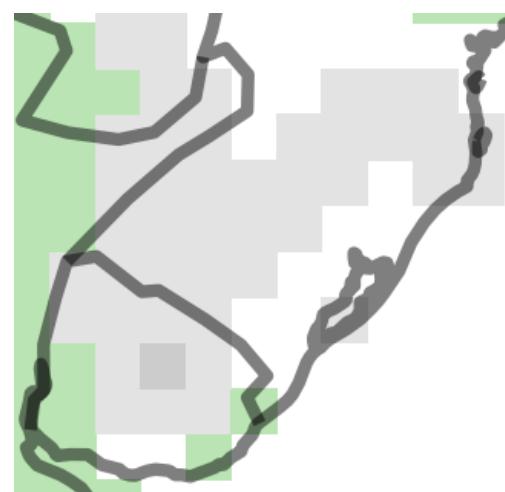
Iniciado em Janeiro/2023



Iniciado em Fevereiro/2023



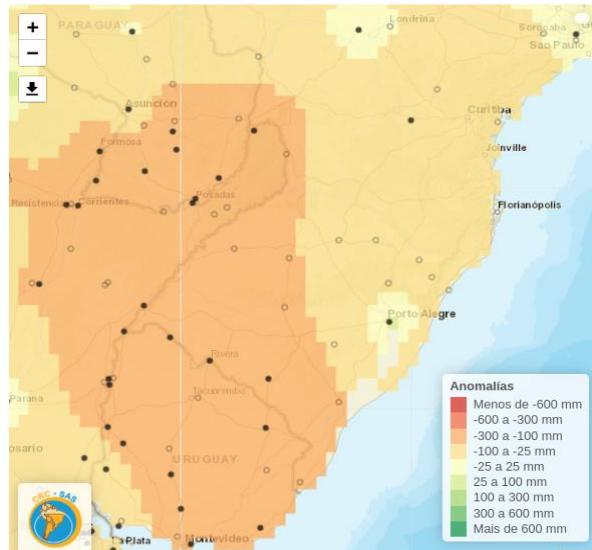
Iniciado em Março/2023



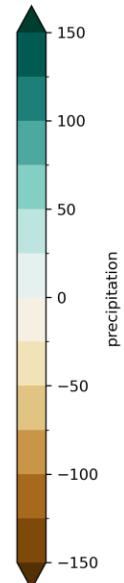
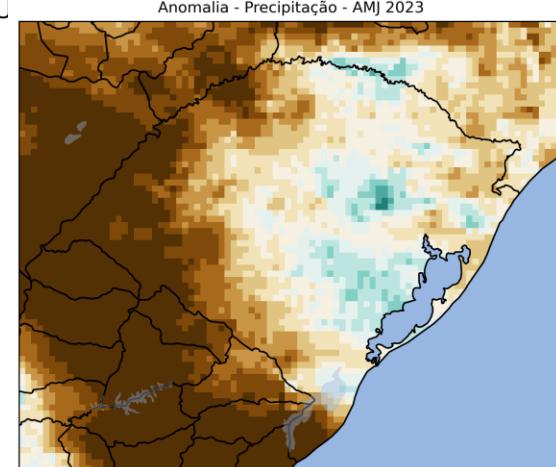
Anomalias de precipitação acumulada - 2023-04-01 até 2023-06-30

Normal

CRC-SAS:



Observado:



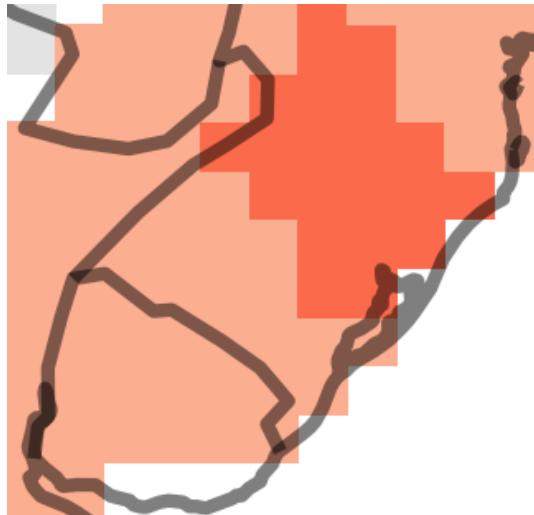
Verificação dos modelos por tempo de antecedência

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

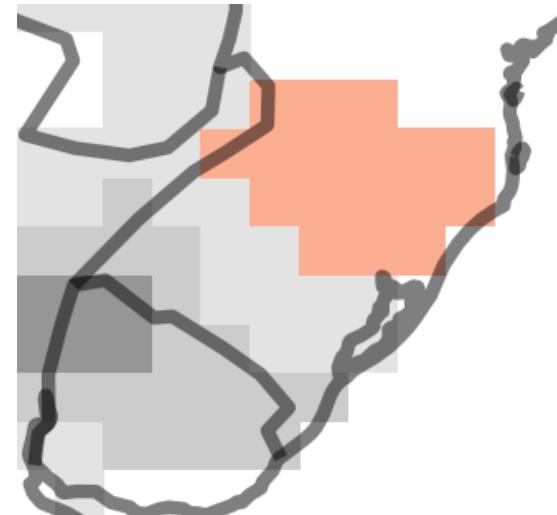
Iniciado em Janeiro/2023



Iniciado em Fevereiro/2023

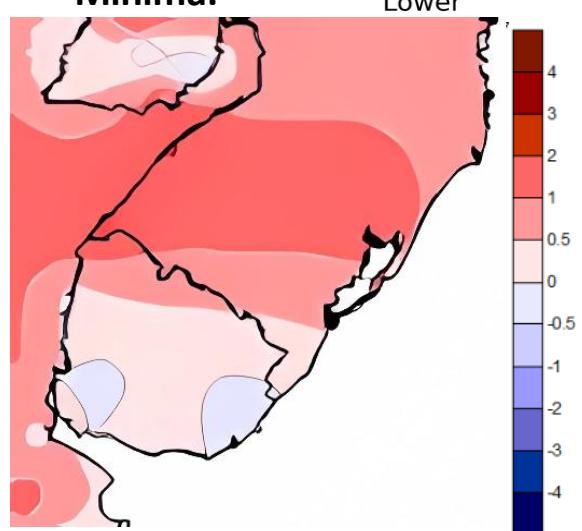


Iniciado em Março/2023



Observado:

Minima:

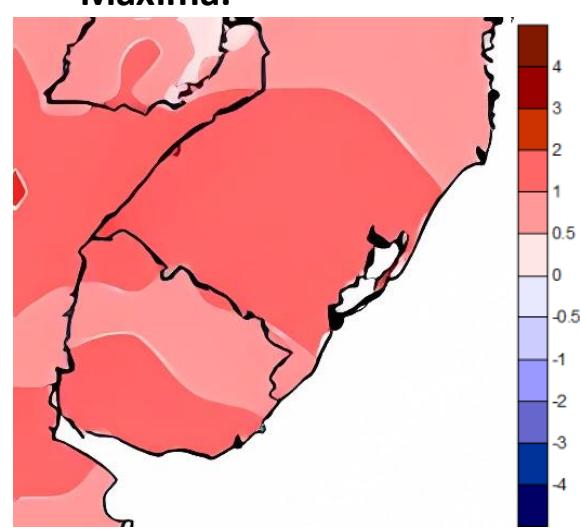


+70% 65% 55% 45%
Lower

45% 55% 65% +70%
Normal

45% 55% 65% +70%
Upper

Máxima:

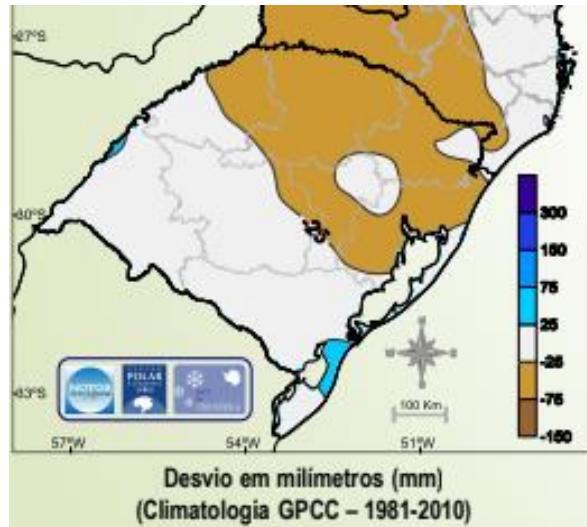


4
3
2
1
0.5
0
-0.5
-1
-2
-3
-4

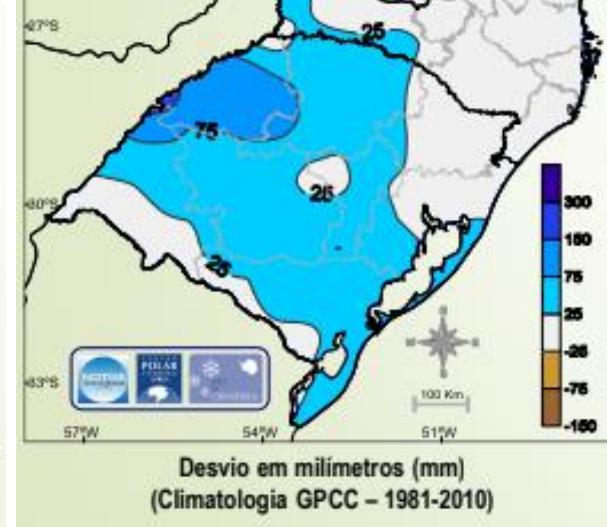
Verificação dos modelos por tempo de antecedência

Anomalia de Precipitação MoReClima-SUL (Junho/2023)

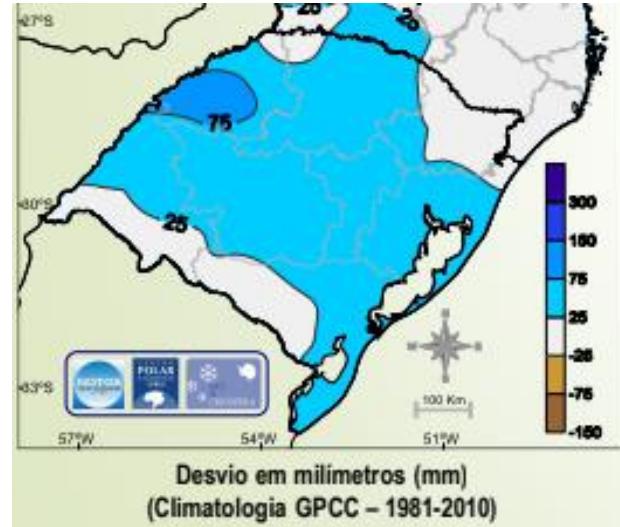
Iniciado em Março/2023



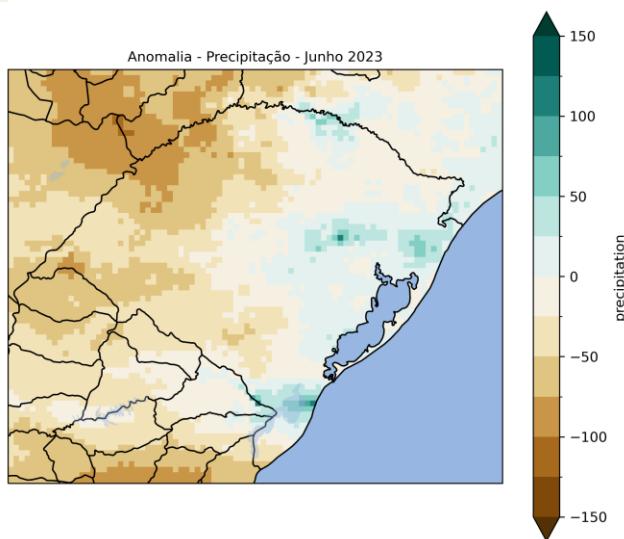
Iniciado em Abril/2023



Iniciado em Maio/2023



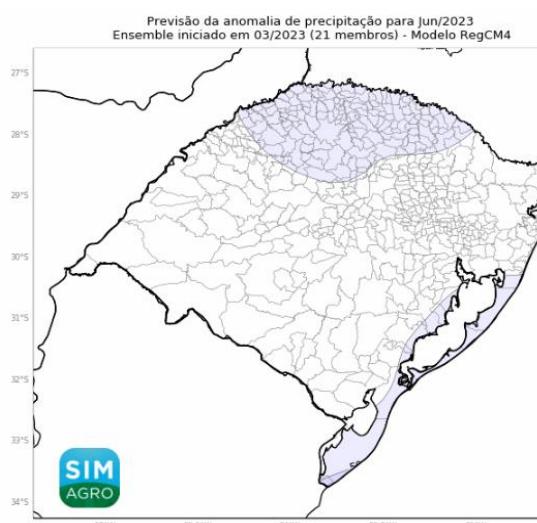
Observado:



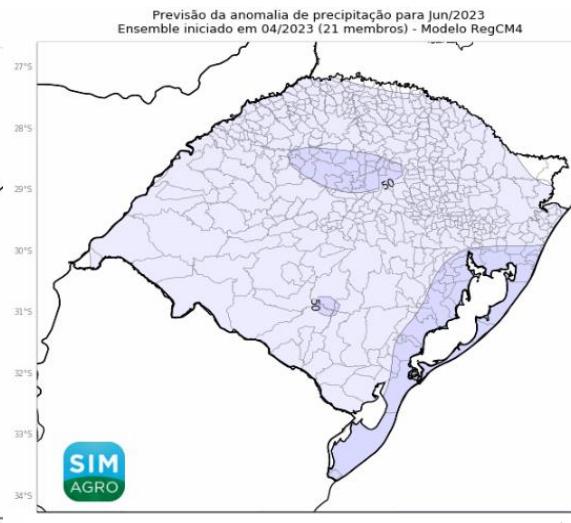
Verificação dos modelos por tempo de antecedência

Anomalia de Precipitação RegCM4 do SIMAGRO (Junho/2023)

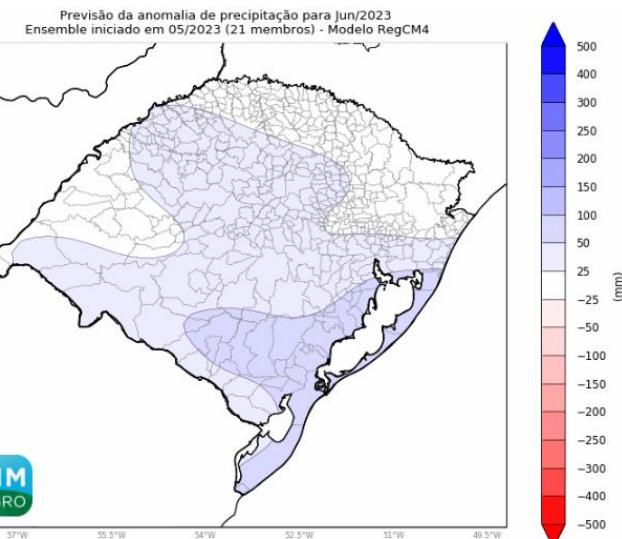
Iniciado em Março/2023



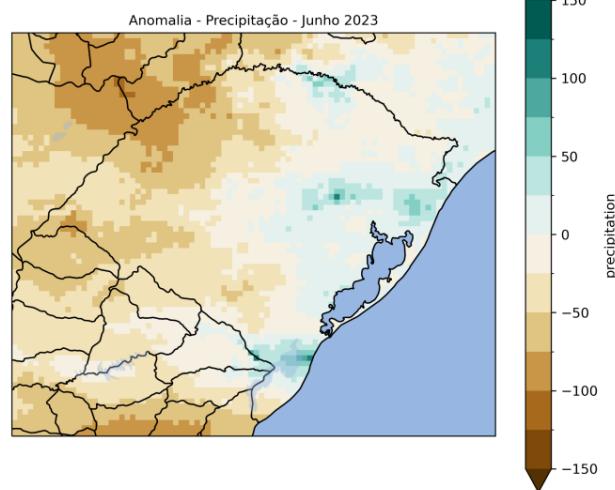
Iniciado em Arbil/2023



Iniciado em Maio/2023



Observado:



Verificação dos modelos por tempo de antecedência

Anomalia de Precipitação APCC (Junho/2023)

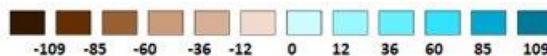
Iniciado em Março/2023



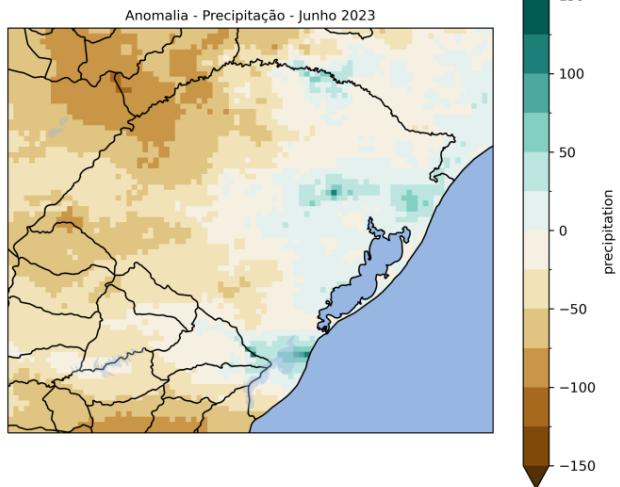
Iniciado em Abril/2023



Iniciado em Maio/2023



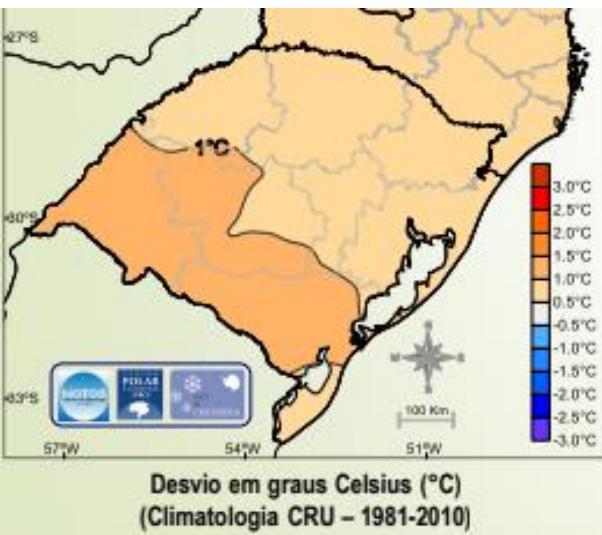
Observado:



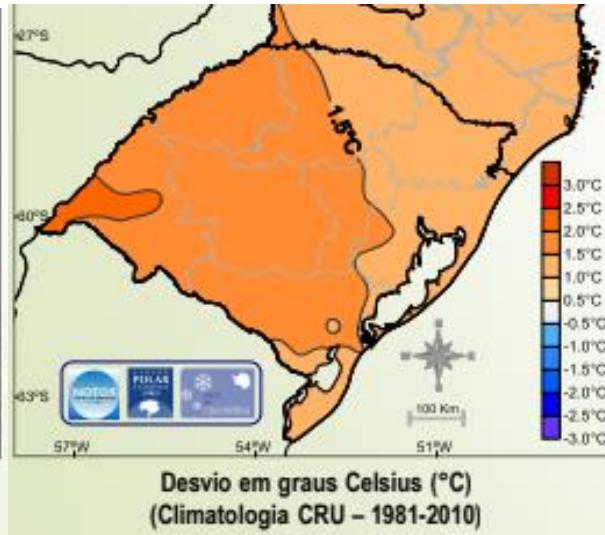
Verificação dos modelos por tempo de antecedência

Anomalia de Temperatura MoReClima-SUL (Junho/2023)

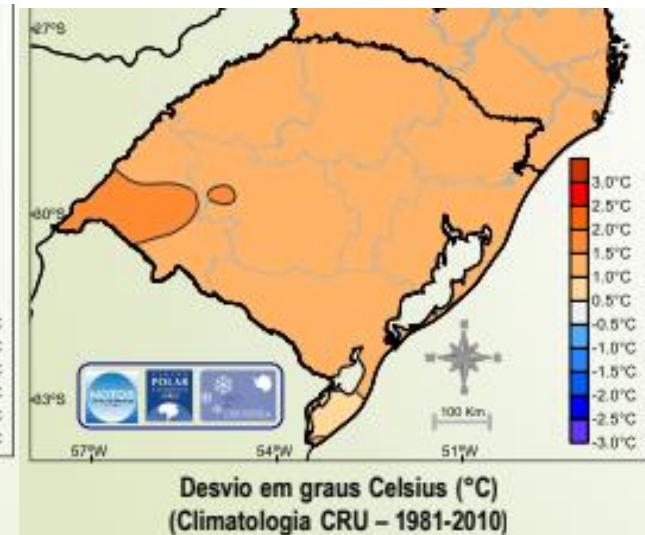
Iniciado em Março/2023



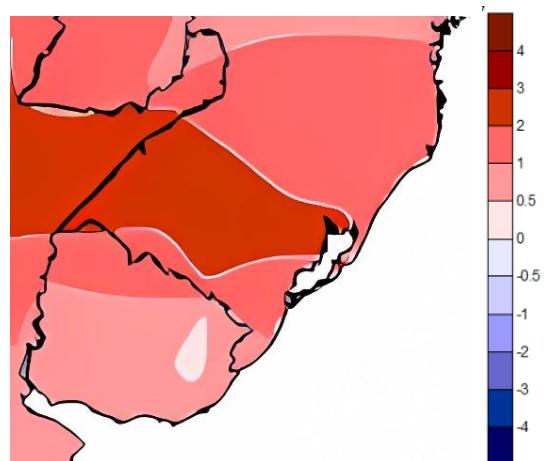
Iniciado em Abril/2023



Iniciado em Maio/2023



Observado:

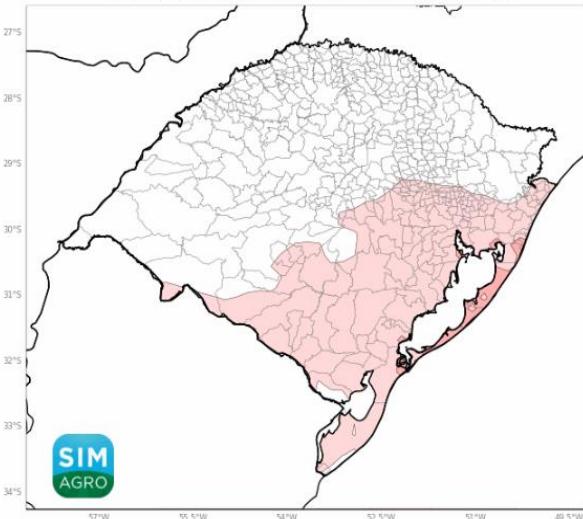


Verificação dos modelos por tempo de antecedência

Anomalia de Temperatura RegCM4 do SIMAGRO (Junho/2023)

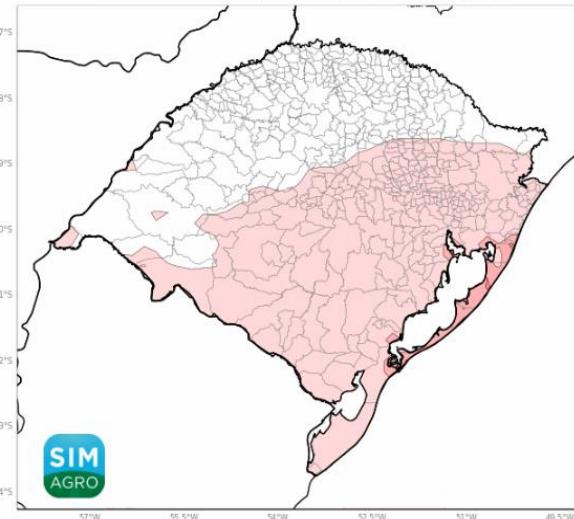
Iniciado em Março/2023

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



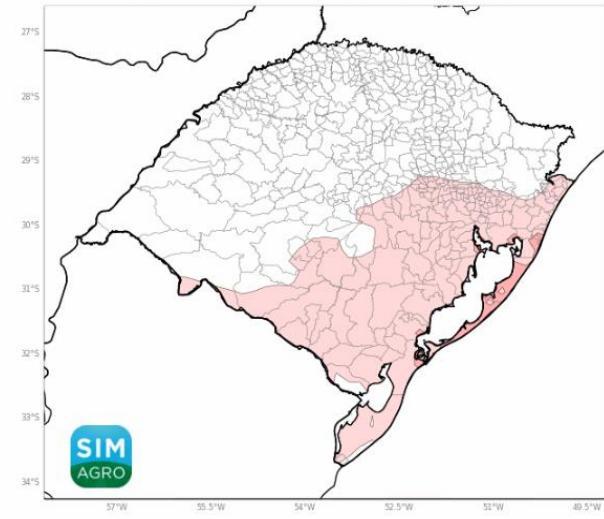
Iniciado em Abril/2023

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

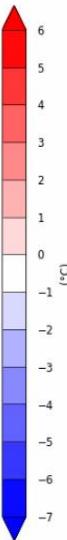
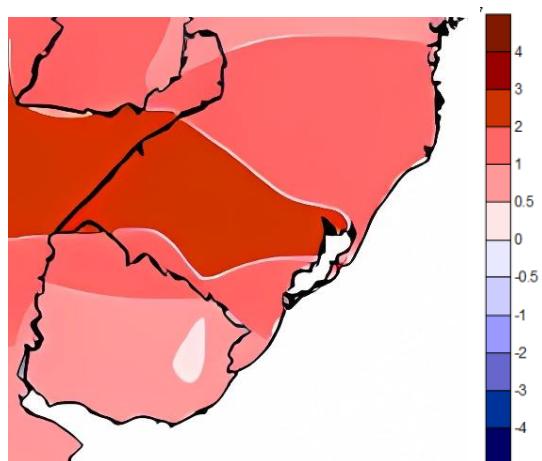


Iniciado em Maio/2023

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



Observado:



Verificação dos modelos por tempo de antecedência

Anomalia de Temperatura APCC (Junho/2023)

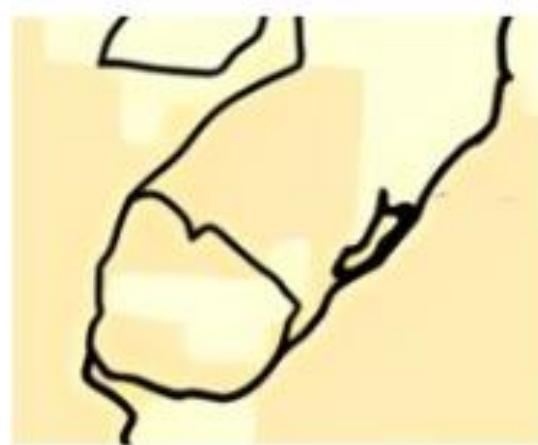
Iniciado em Março/2023



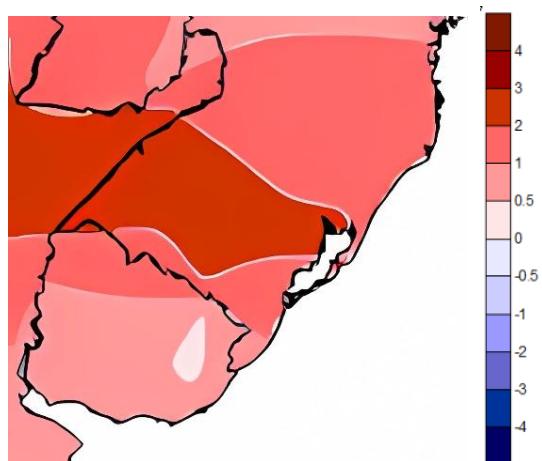
Iniciado em Abril/2023



Iniciado em Maio/2023

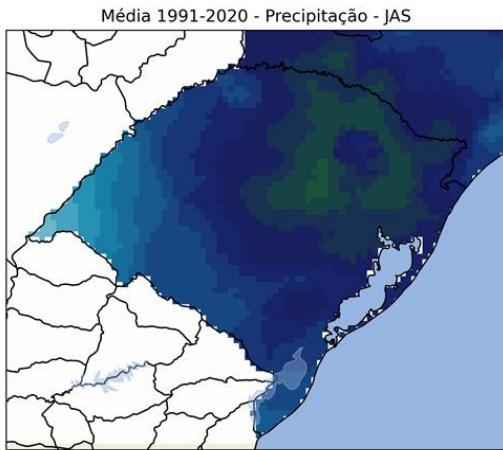


Observado:

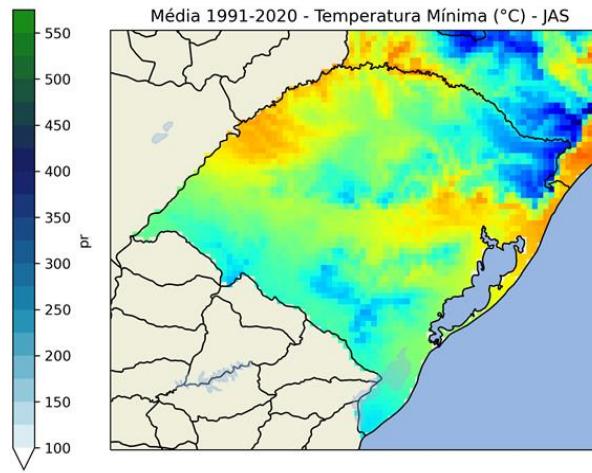


Climatologia de JAS

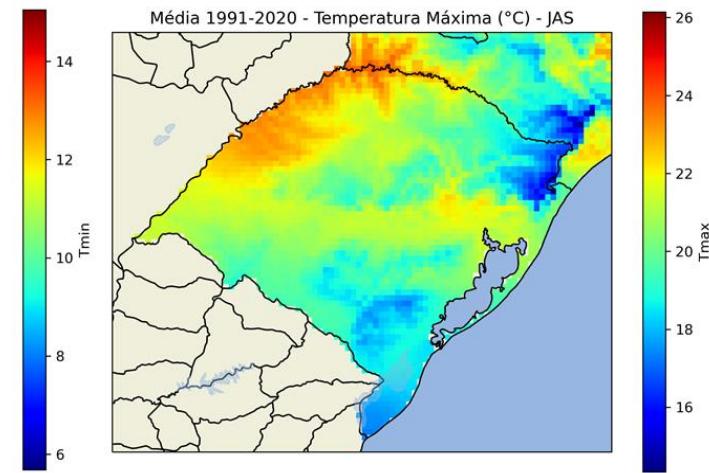
- Neste trimestre o norte/nordeste do RS passa a ser o setor do estado com maiores acumulados de chuva na média ($> 500\text{mm}$). A variação meridional ainda persiste, contudo o sudoeste do RS passa a ter acumulados inferiores a 350 mm.
- As médias de temperatura mínima e máxima são mais altas no noroeste do RS e na faixa central do estado até o litoral norte;



Precipitação



Temperatura mínima

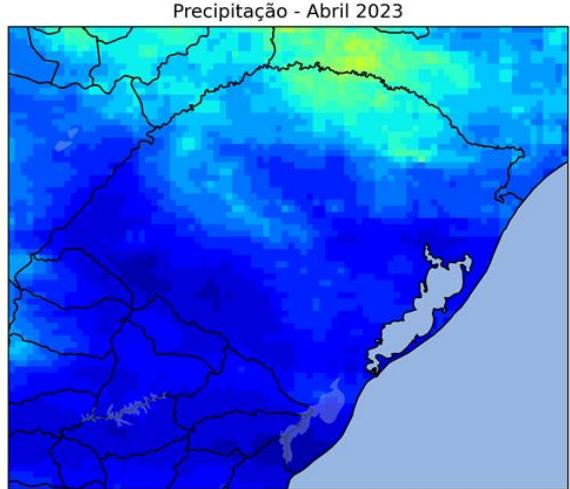


Temperatura máxima

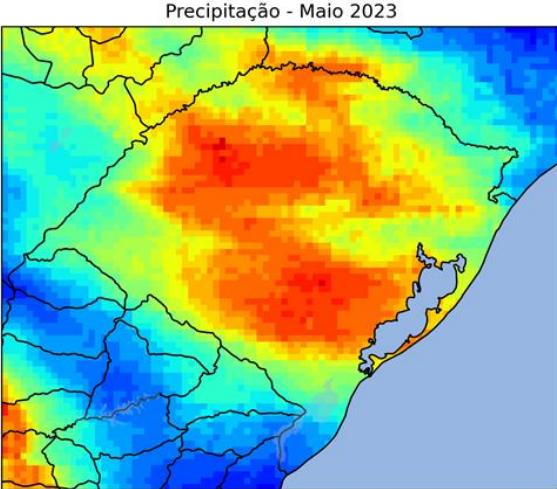
Condições observadas em AMJ/2023

Valores absolutos

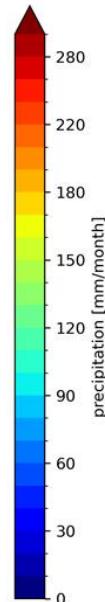
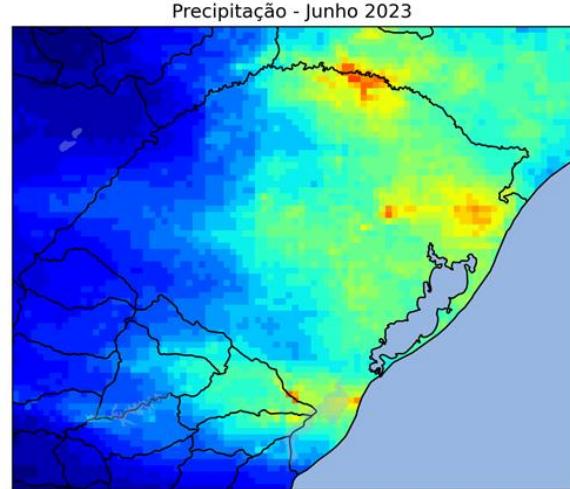
Abril



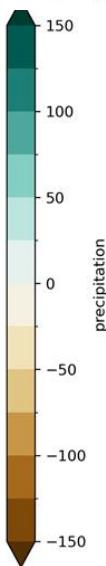
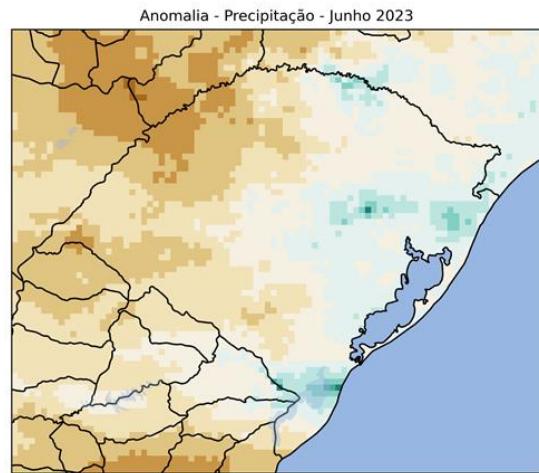
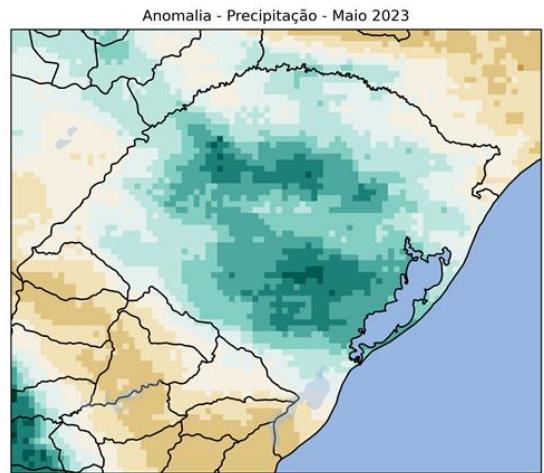
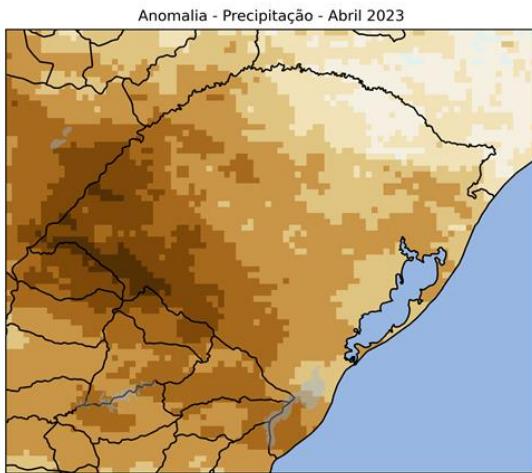
Maio



Junho



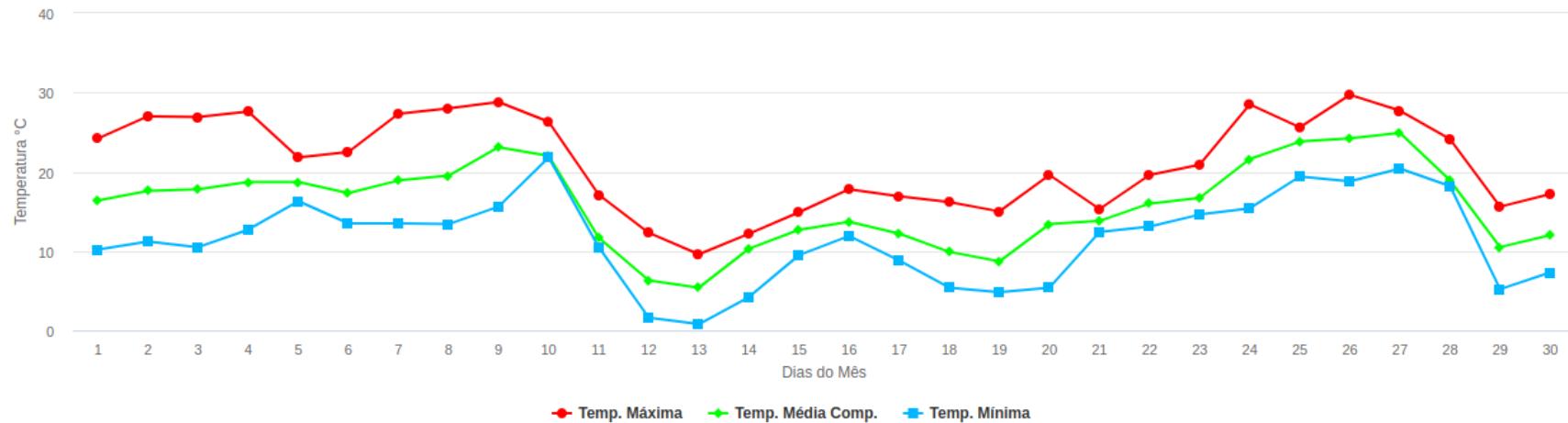
Anomalias



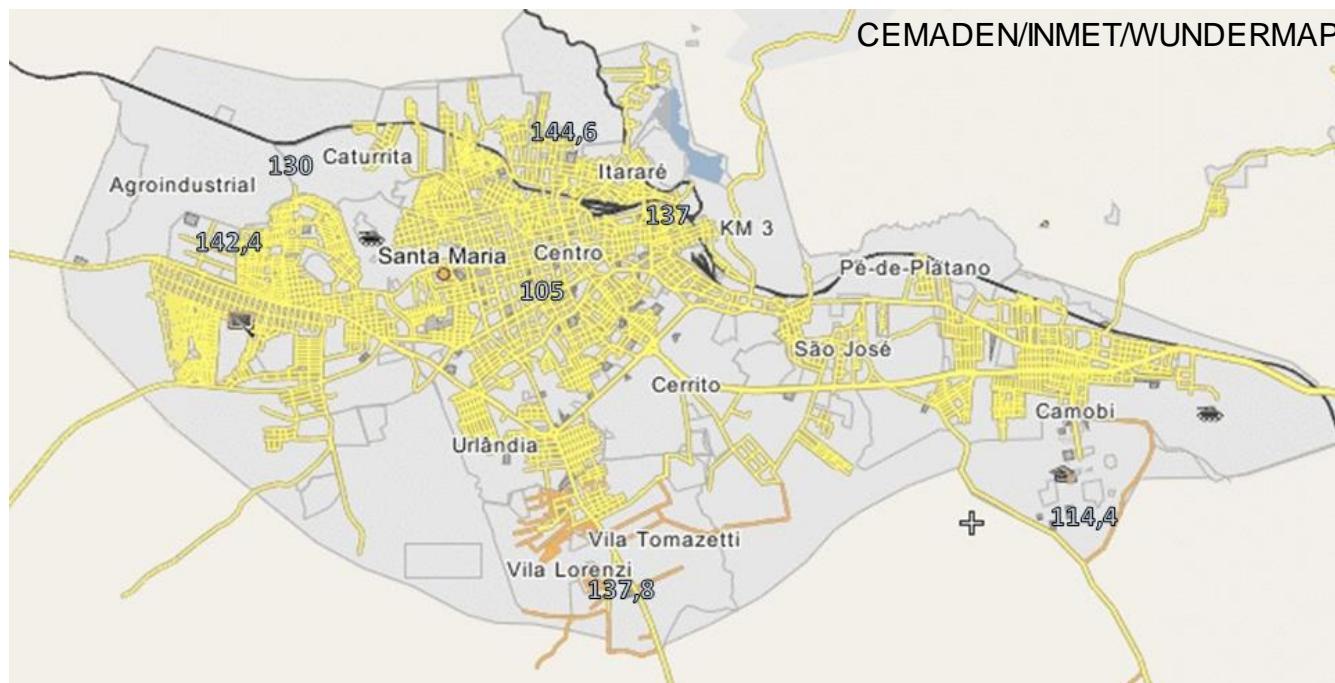
Condições observadas em Junho/2023

Instituto Nacional de Meteorologia - INMET

Temperaturas Diárias (Máxima, Média, Mínima) || Estação: SANTA MARIA (A803) - 06/2023

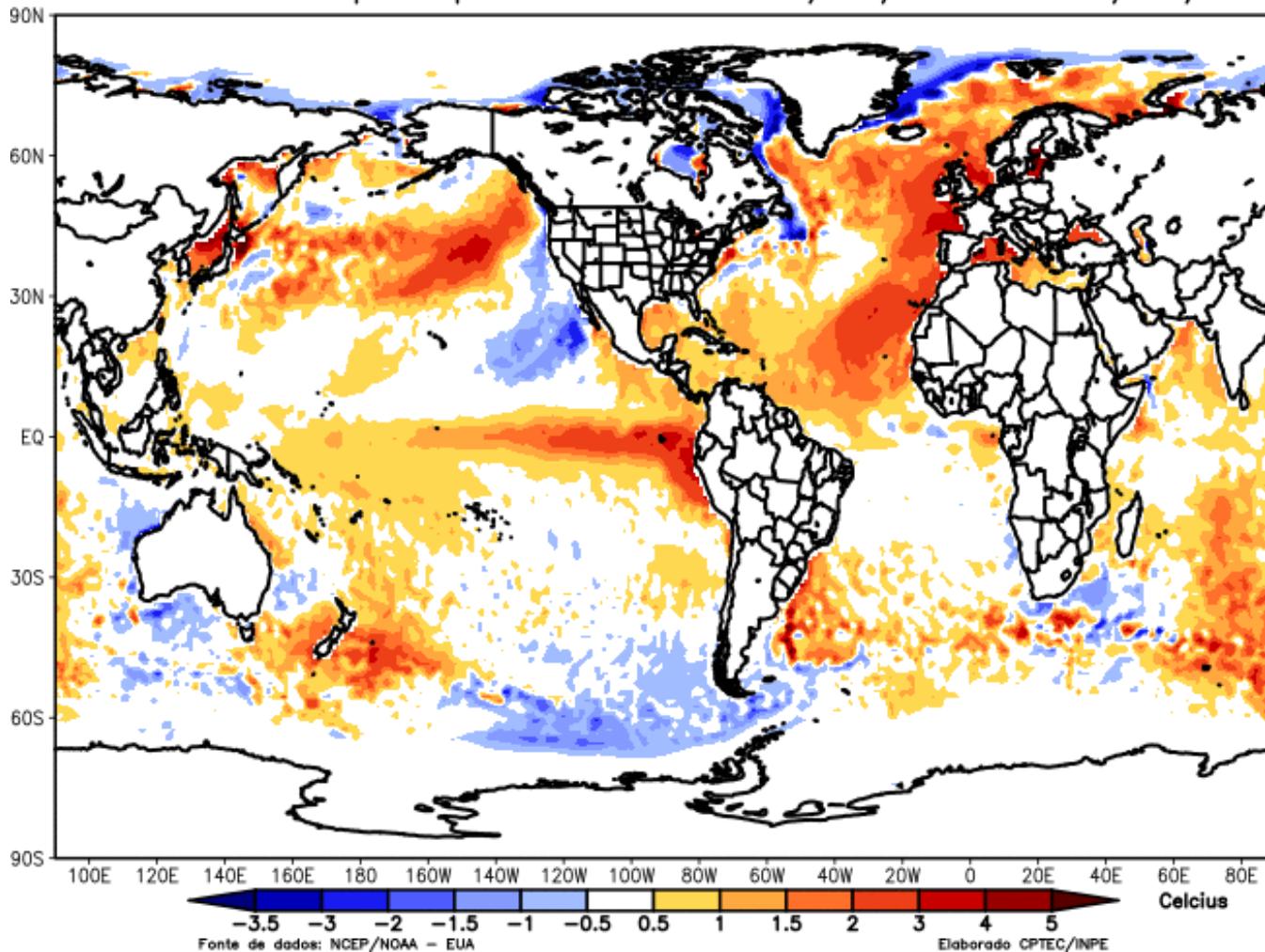


Precipitação mensal em Junho - Santa Maria



Condições oceânicas

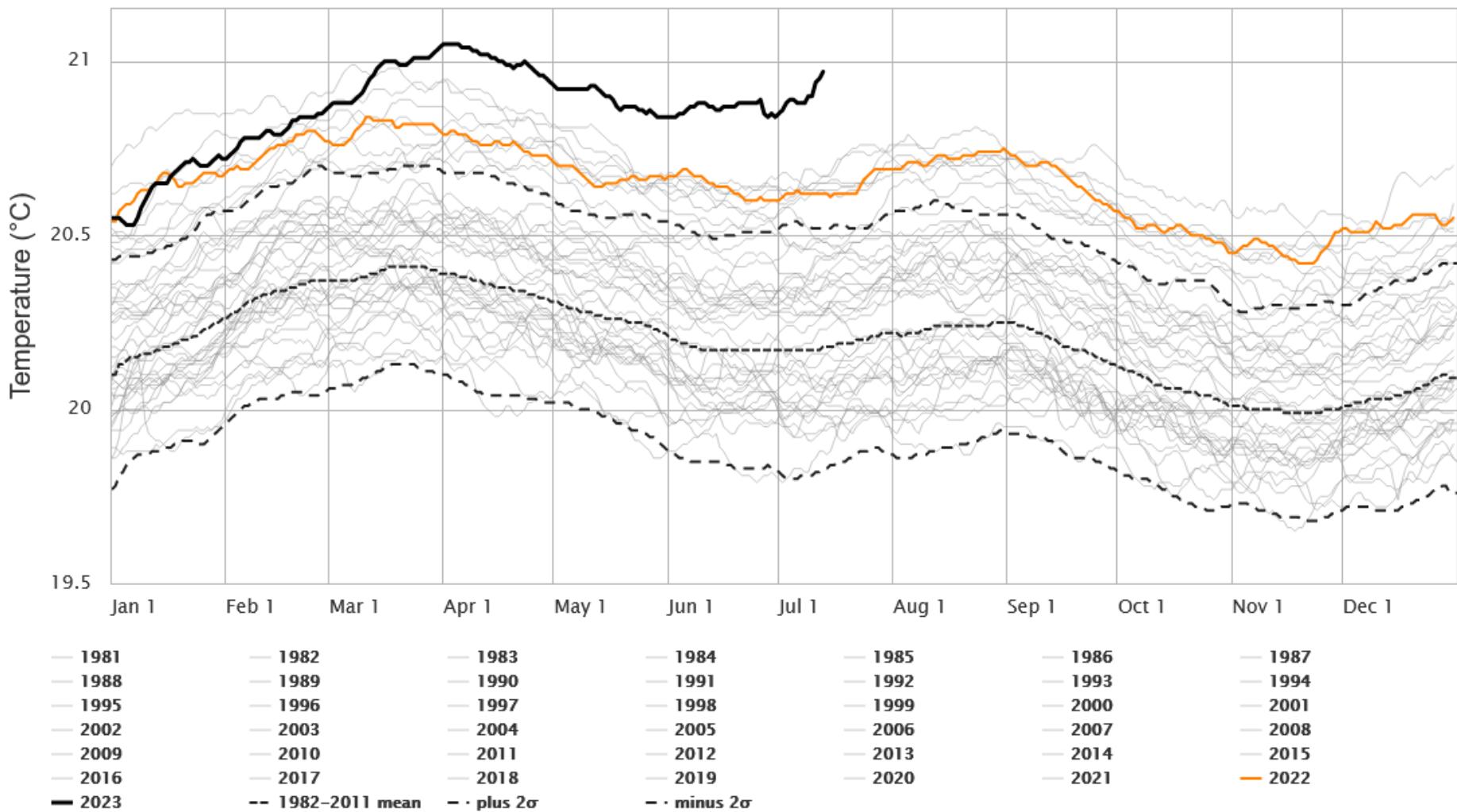
Anomalia de Temp. Superfície do Mar 25/06/2023 a 01/07/2023



Condições oceânicas

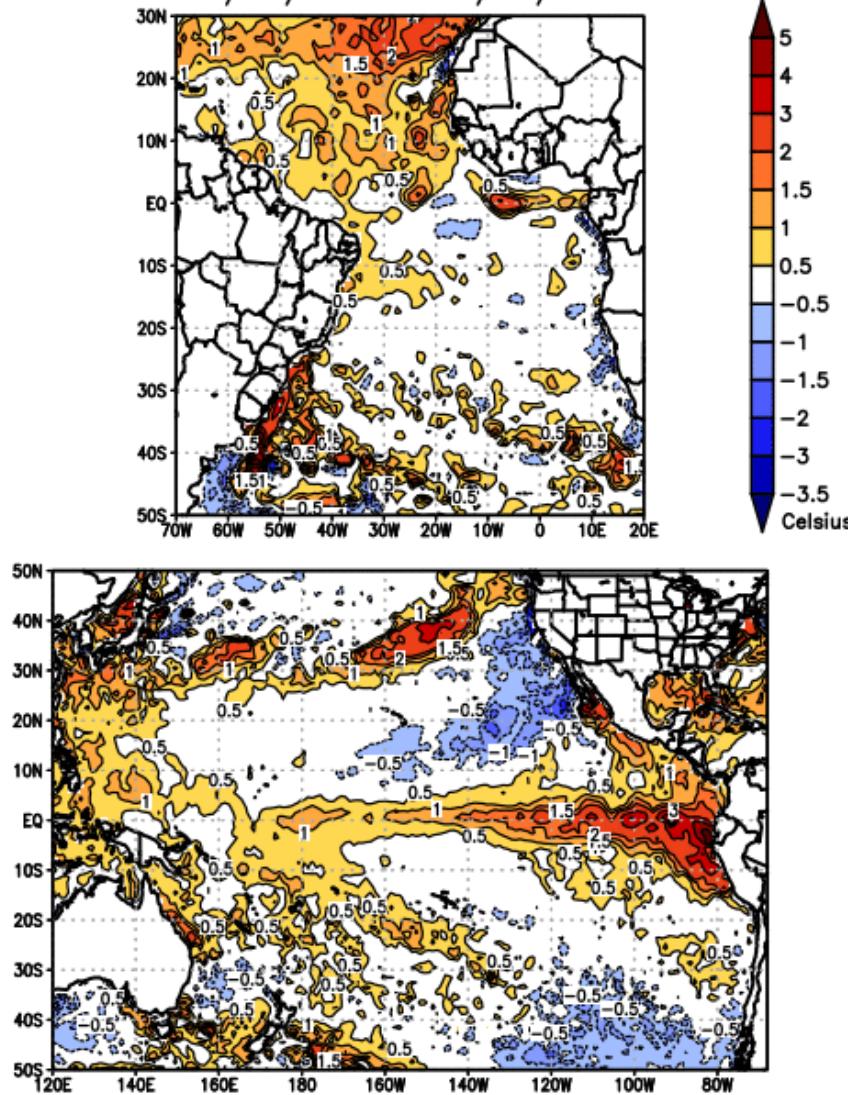
SST World (60S–60N)

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



Condições oceânicas

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



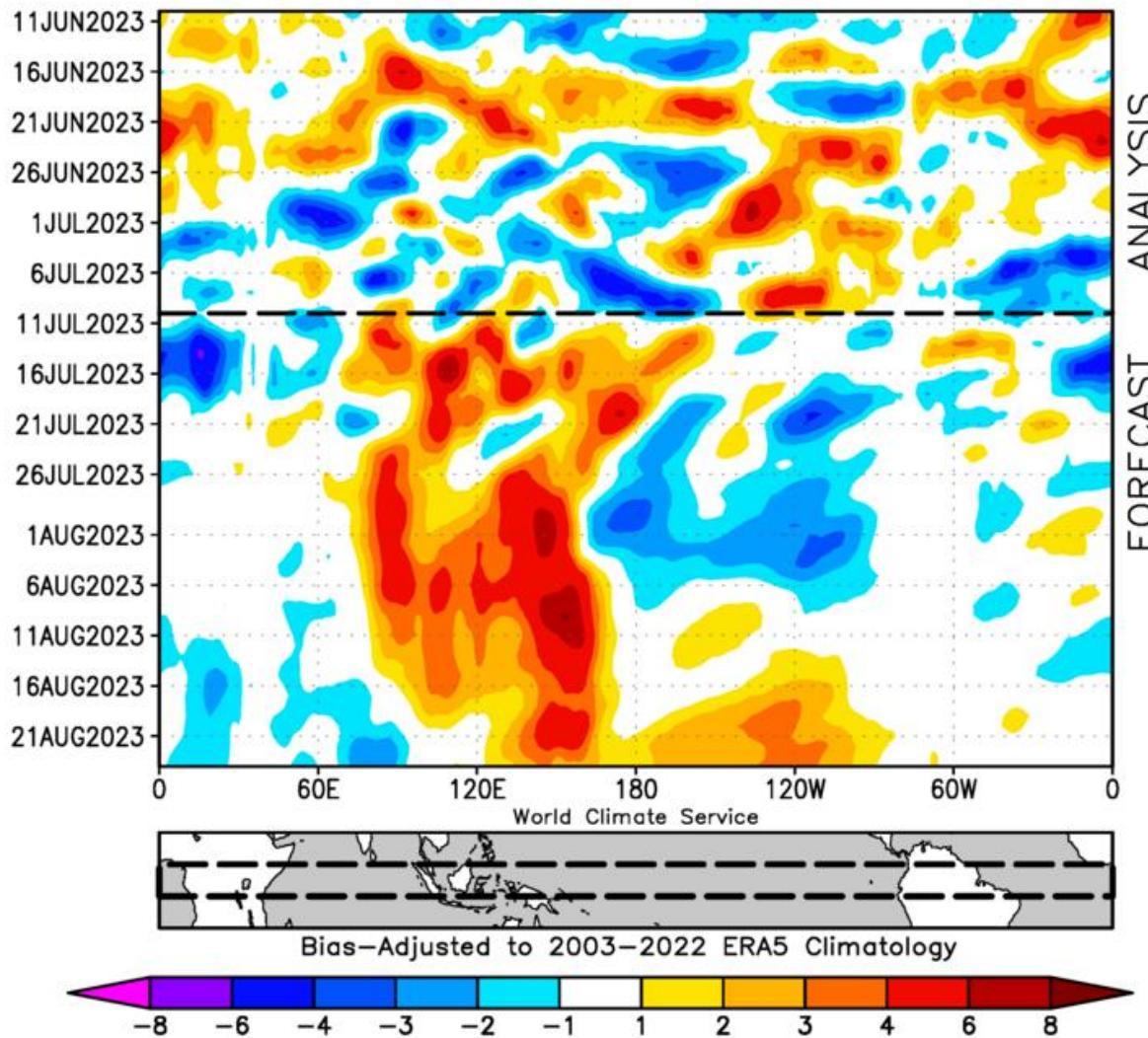
Fonte de dados: NCEP/NOAA – EUA

Elaboração: CPTEC/INPE

Condições oceânicas

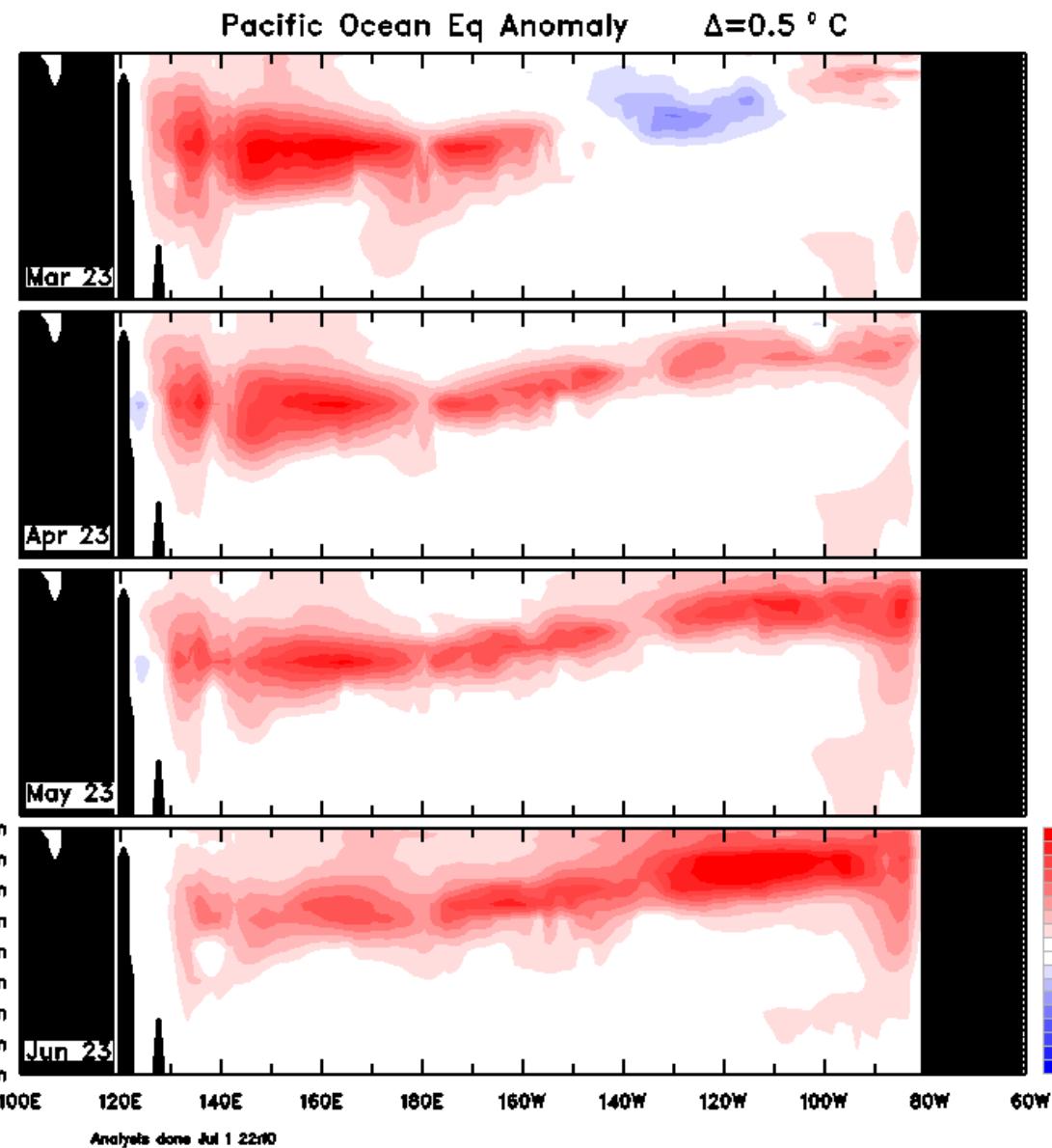
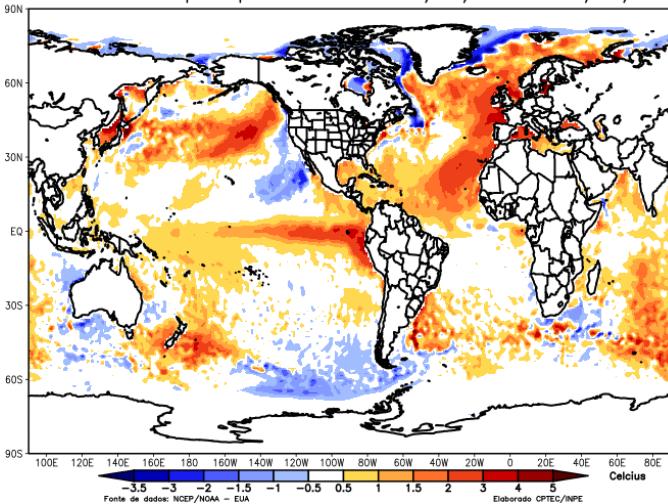
Ensemble Mean 850mb Zonal Wind Anomaly (m/s)
5°S–5°N Average

ERA5/ECMWF Analysis and CFSv2 Initialized 00–18UTC 10JUL2023



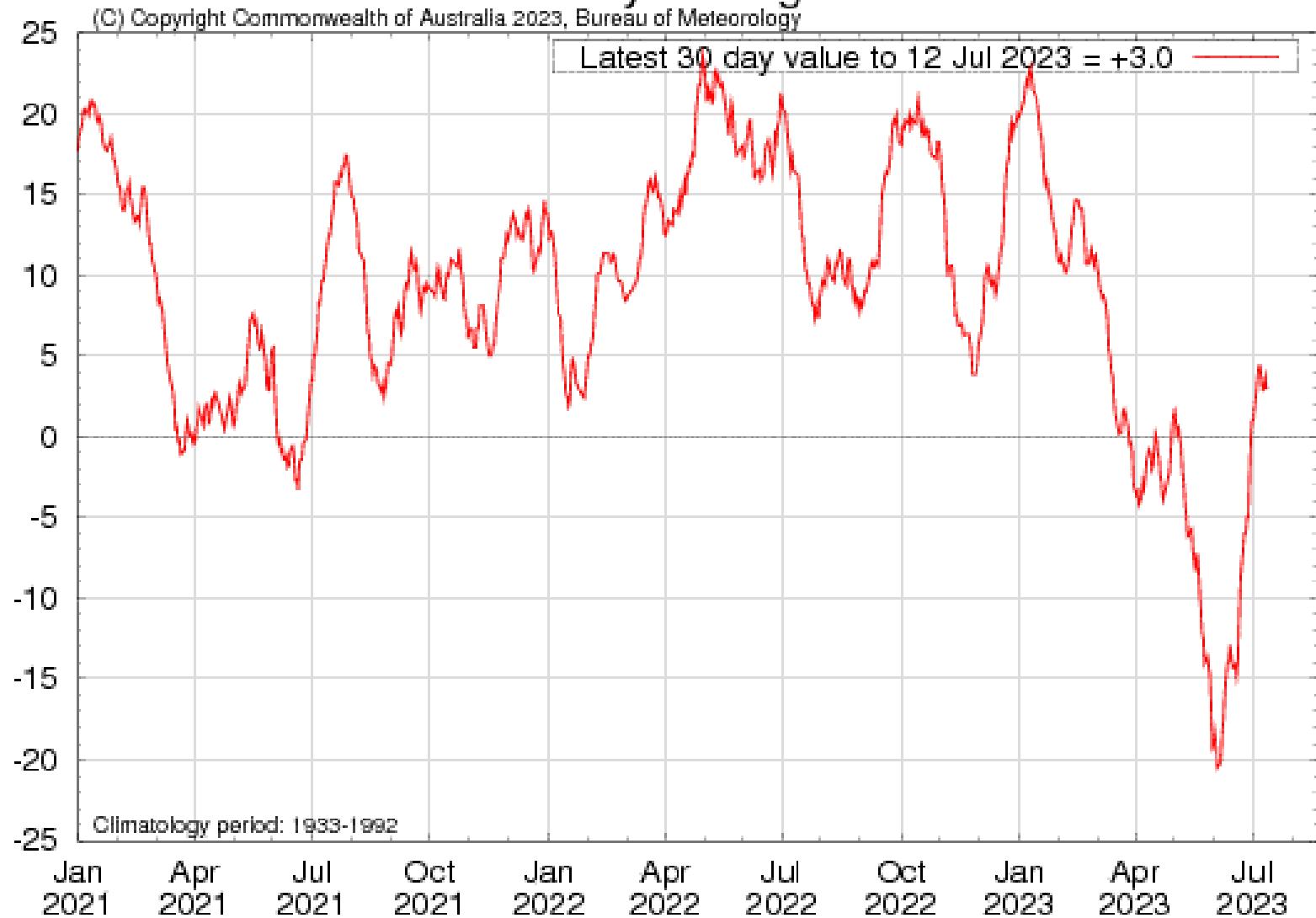
Condições oceânicas

Anomalia de Temp. Superfície do Mar 25/06/2023 a 01/07/2023



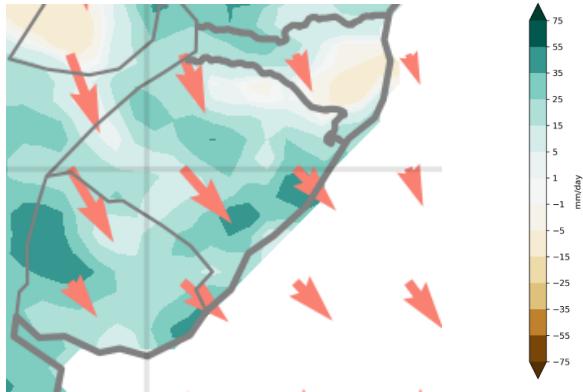
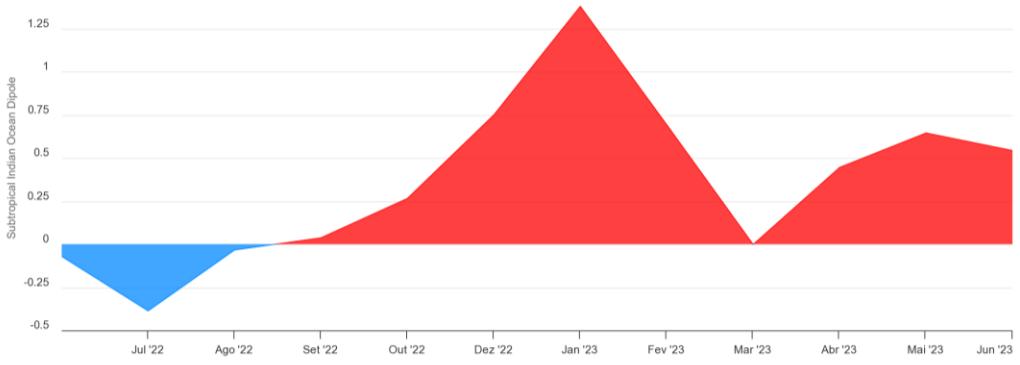
Condições oceânicas

30 Day Moving SOI

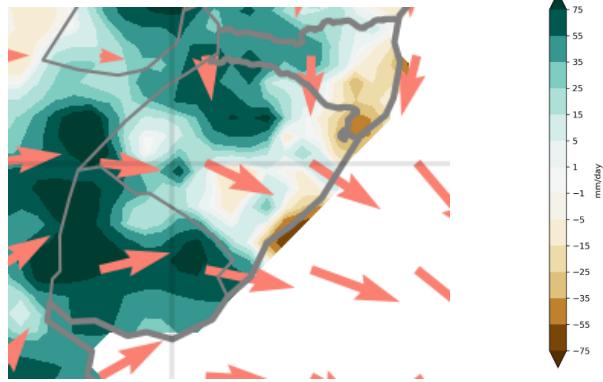
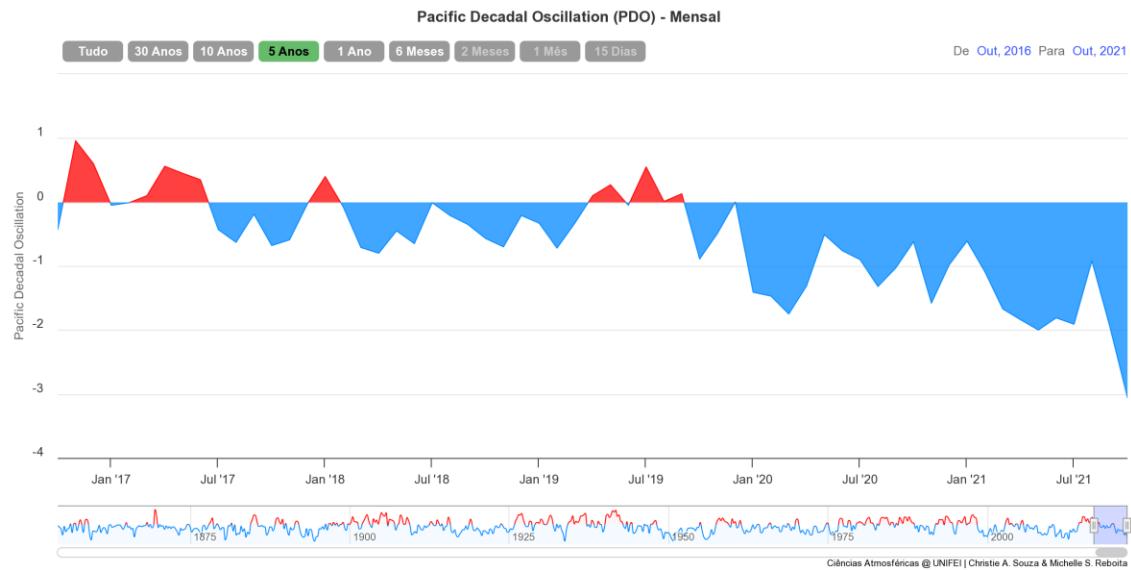


Índices oceânicos

IOD

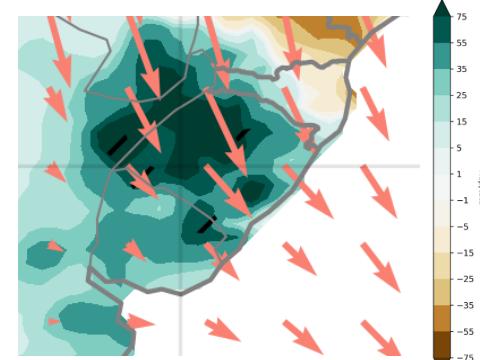
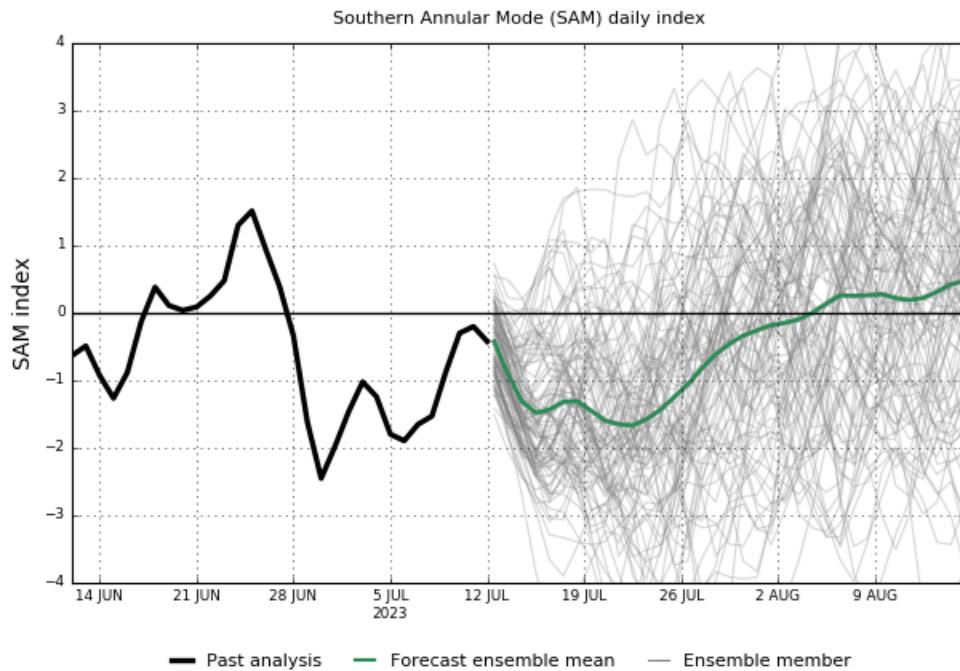
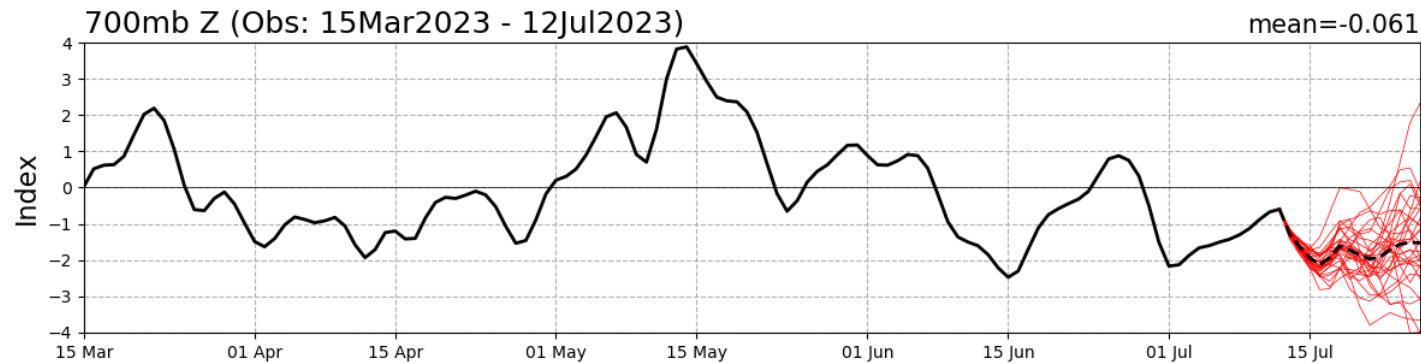


PDO



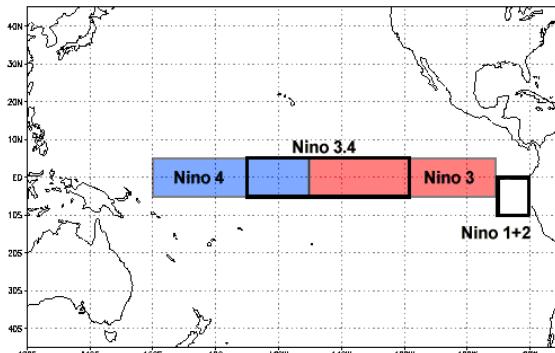
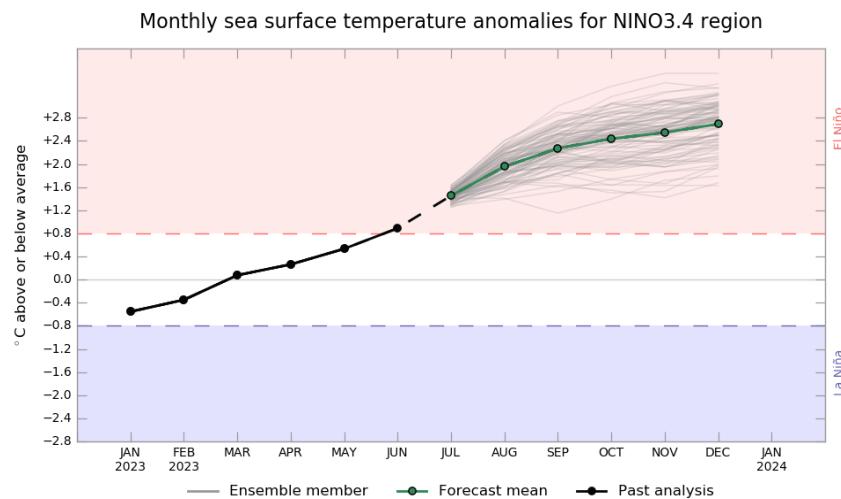
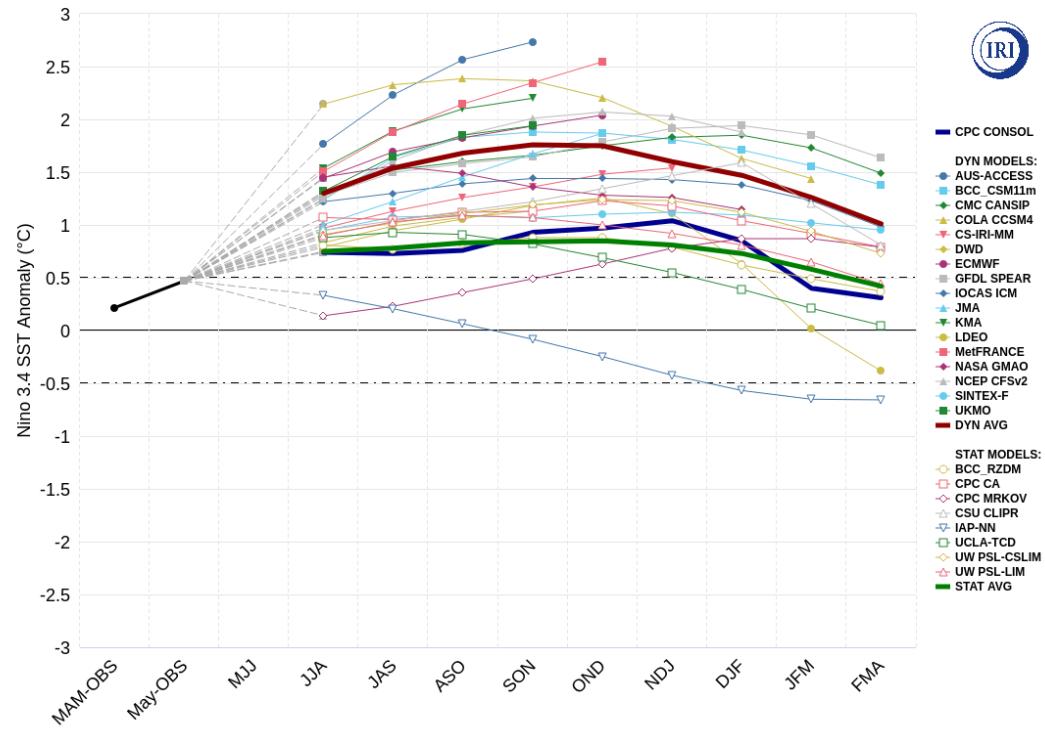
Índice atmosférico (AAO)

AAO Index: Observed & GEFS Forecasts

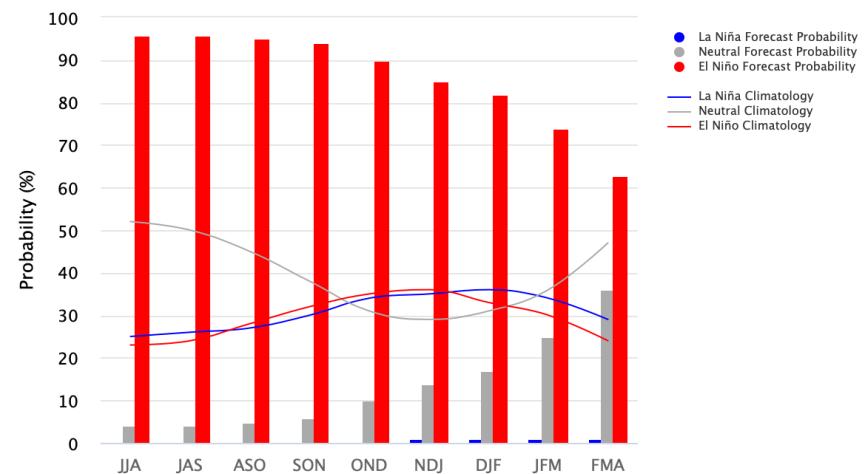


Previsões do ENOS

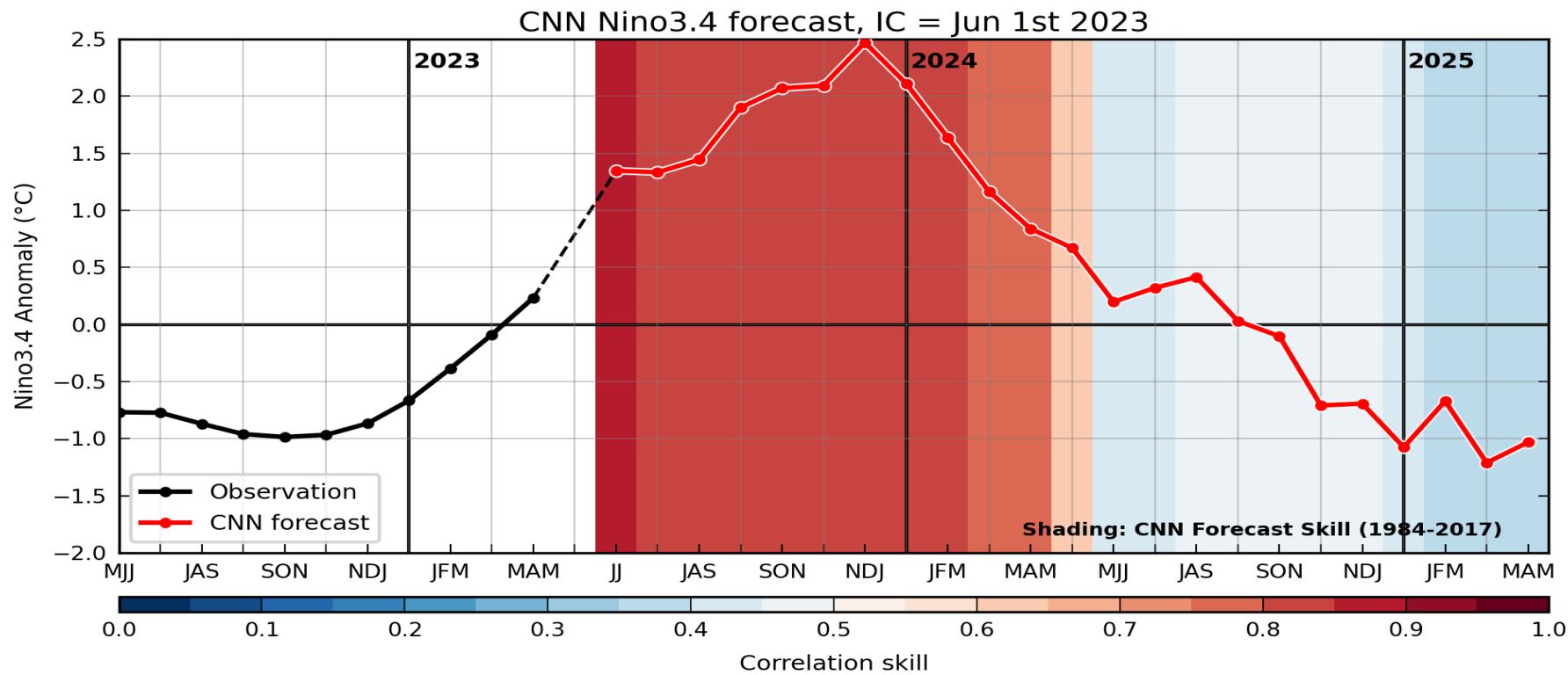
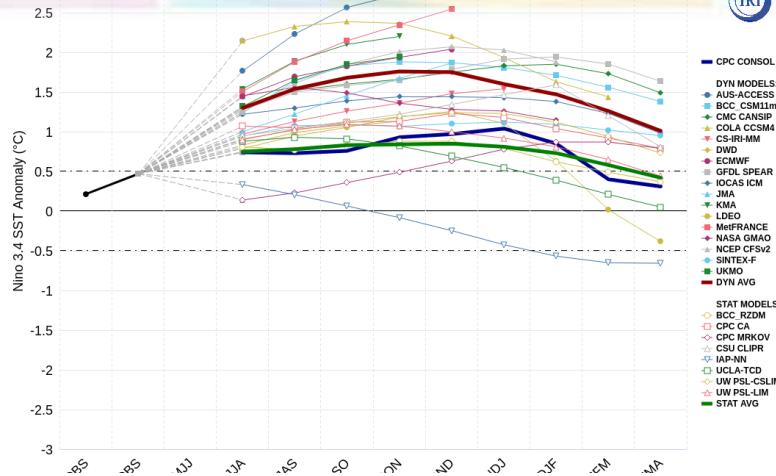
Model Predictions of ENSO from Jun 2023



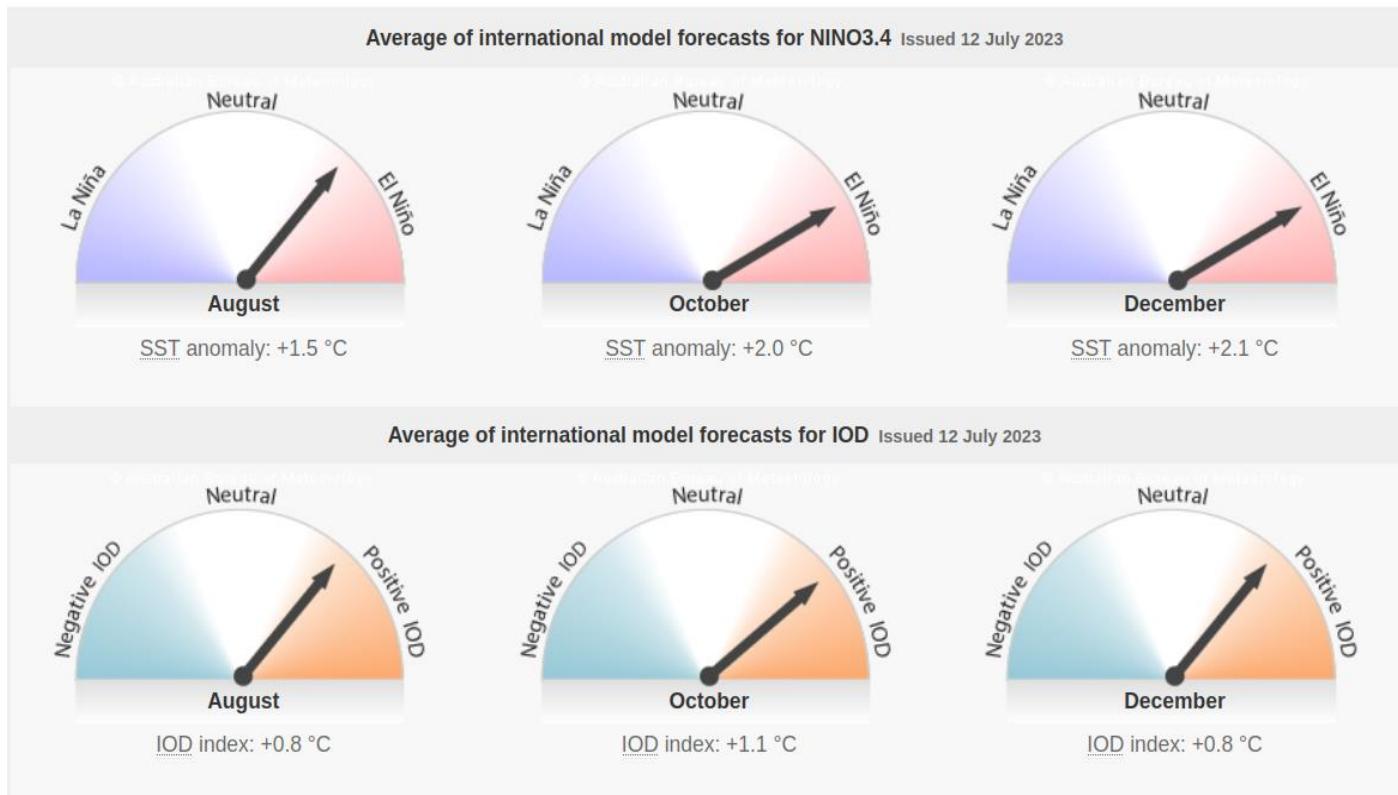
ENSO state based on NINO3.4 SST Anomaly Neutral ENSO: -0.5°C to 0.5°C



Previsões do ENOS



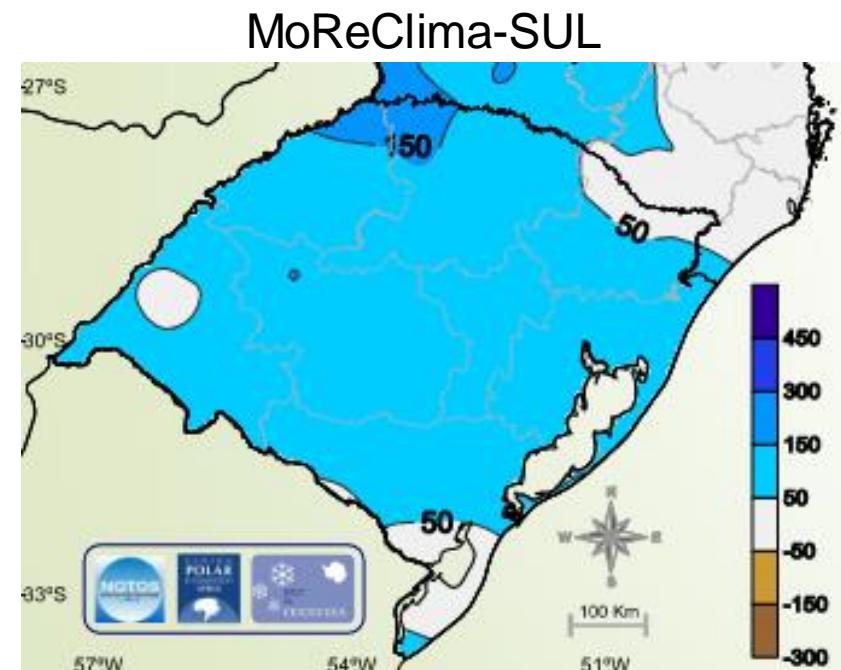
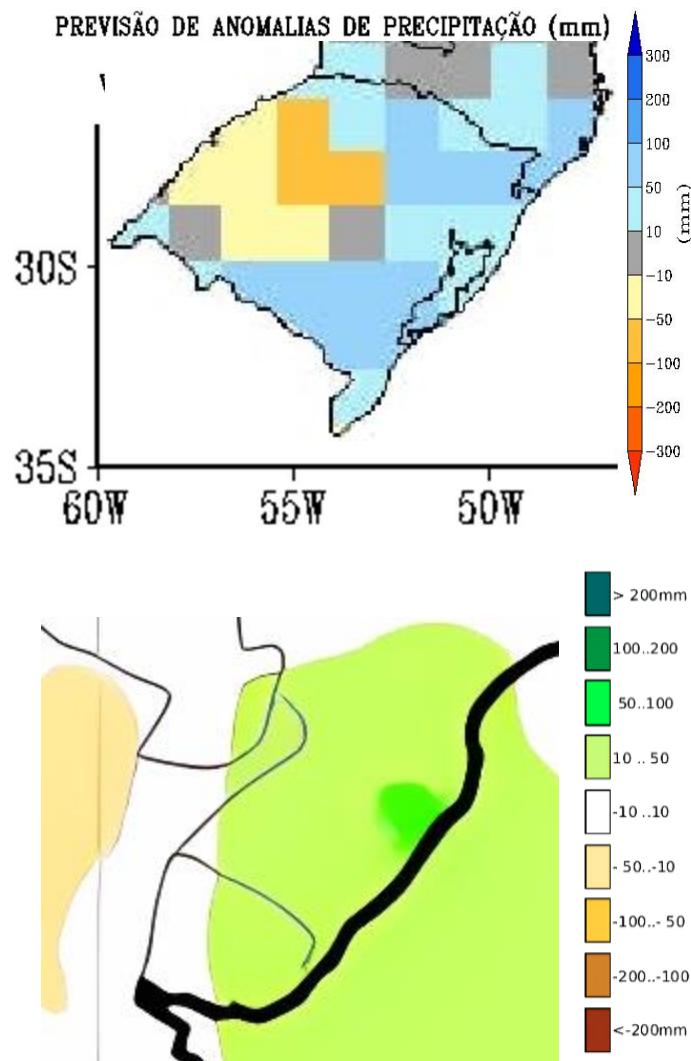
Previsões do ENOS



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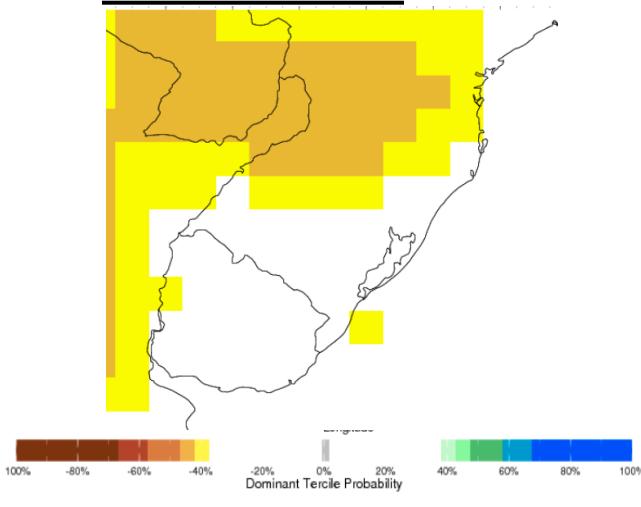
Previsões sazonais

Previsões sazonais (JJA) - Precipitação (anomalias)

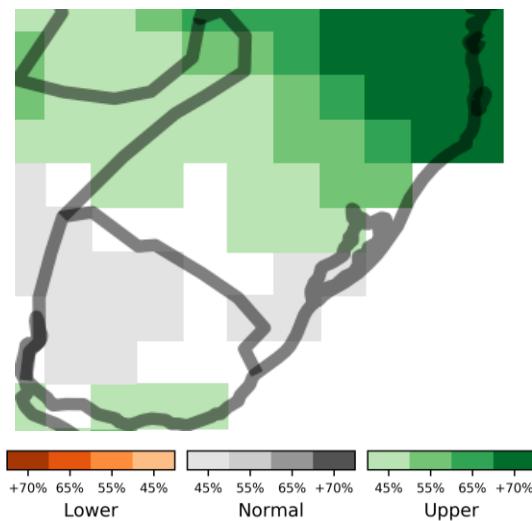


Previsões sazonais (JAS) - Precipitação (probabilística)

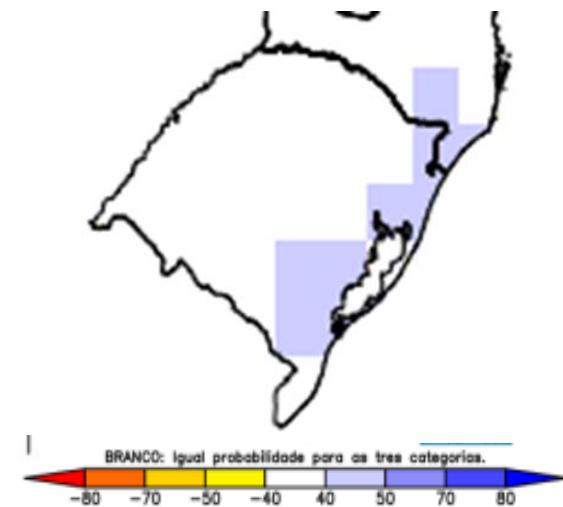
Mutimodelo IRI



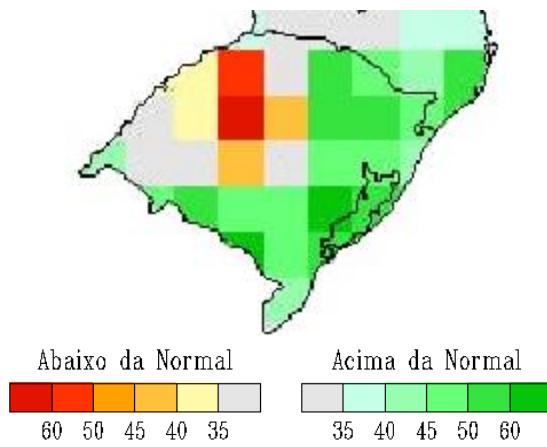
CIMA-CONICET-UBA



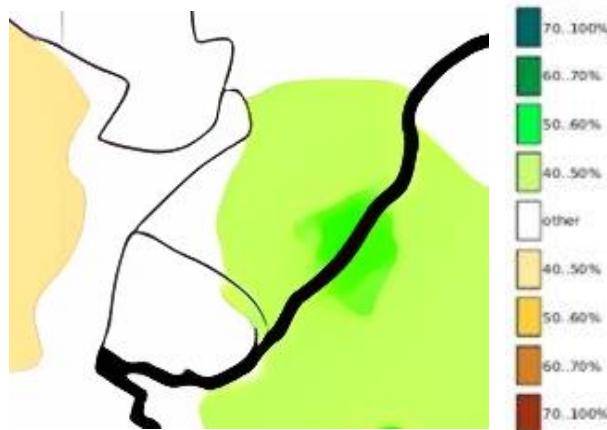
Multimodelo [CPTEC/INMET/FUNCME](#)



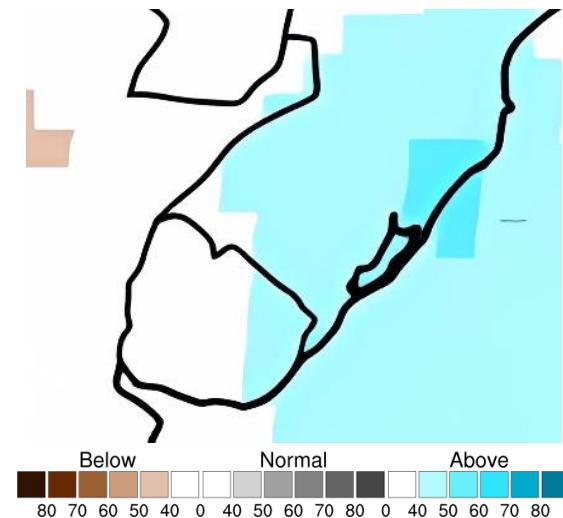
INMET



**Multissistema C3S
(ECMWF)**

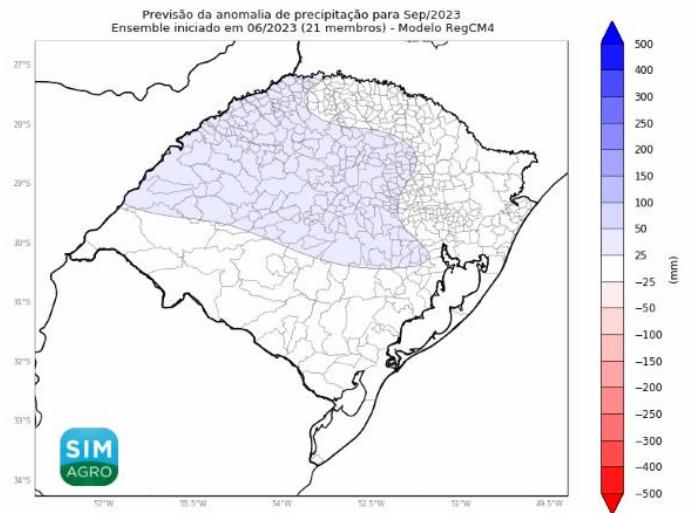
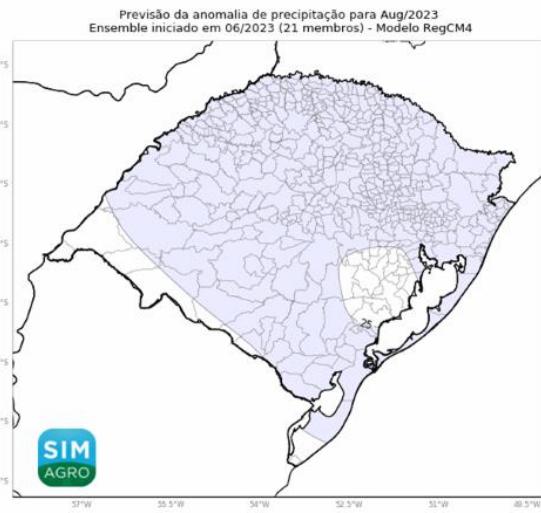
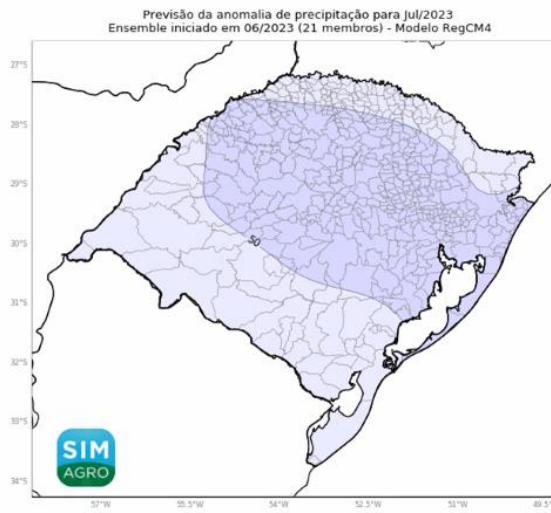


APCC



Previsões mensais - Precipitação (mm)

RegCM4

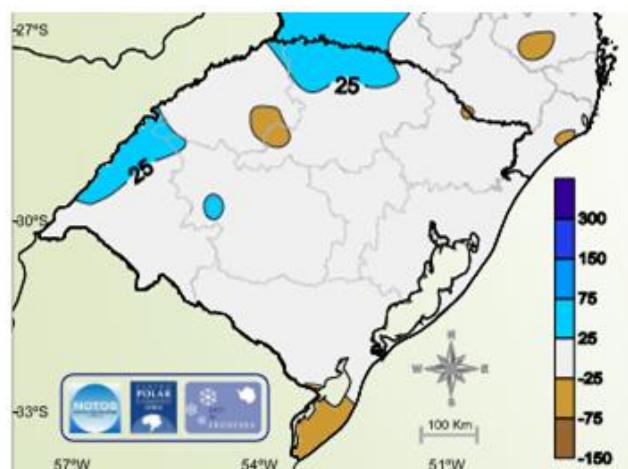
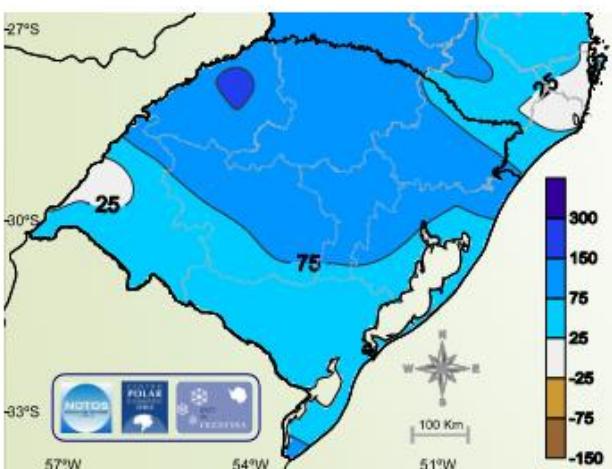
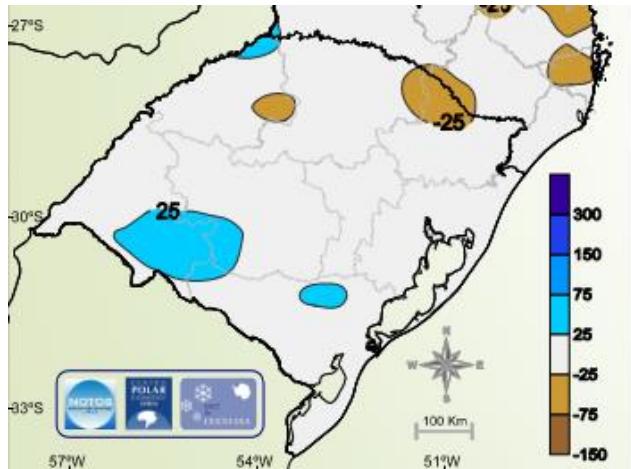


APCC



Previsões mensais - Precipitação (mm)

MoreClima



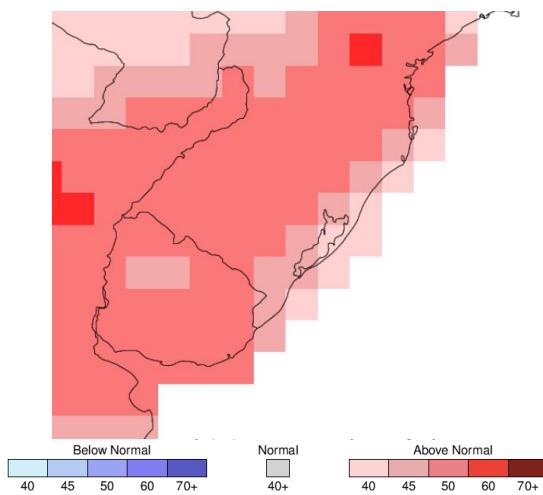
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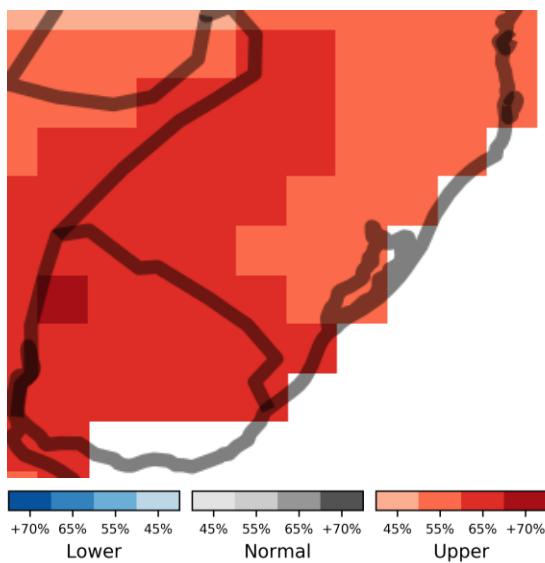
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Previsões sazonais (JAS) - Temperatura (probabilística)

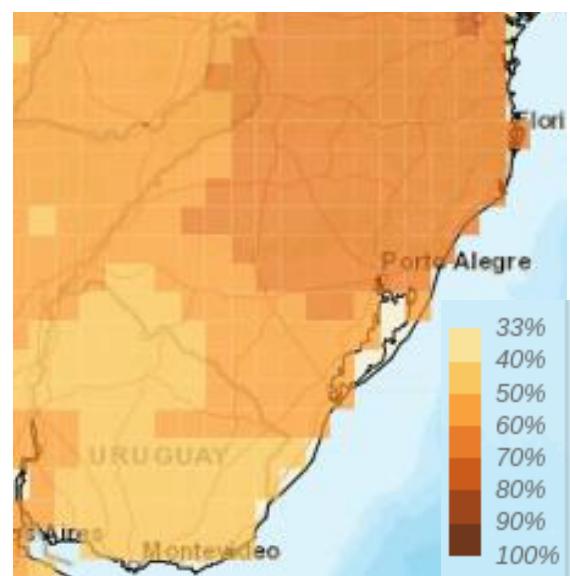
Mutimodelo IRI



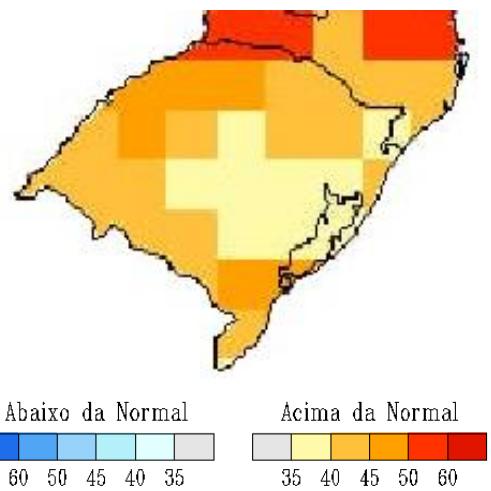
CIMA-CONICET-UBA



CRC-SAS (Ensemble NMME)



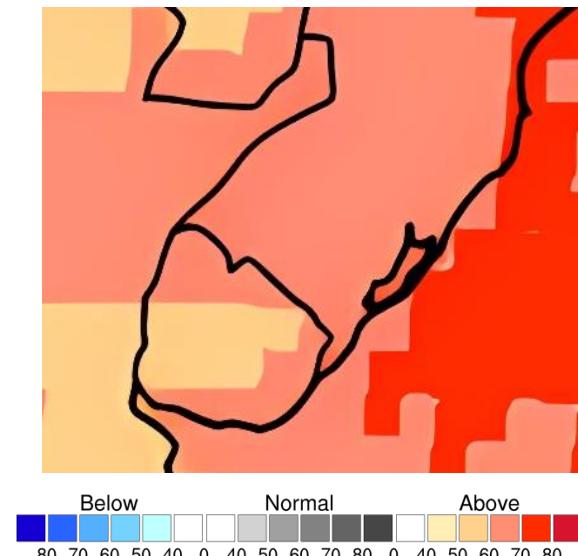
INMET



Multissistema C3S
(ECMWF)

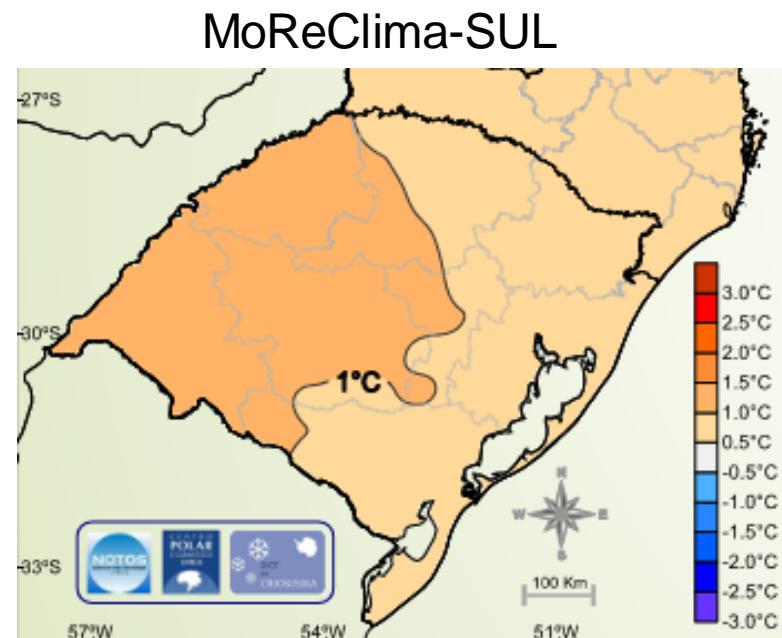
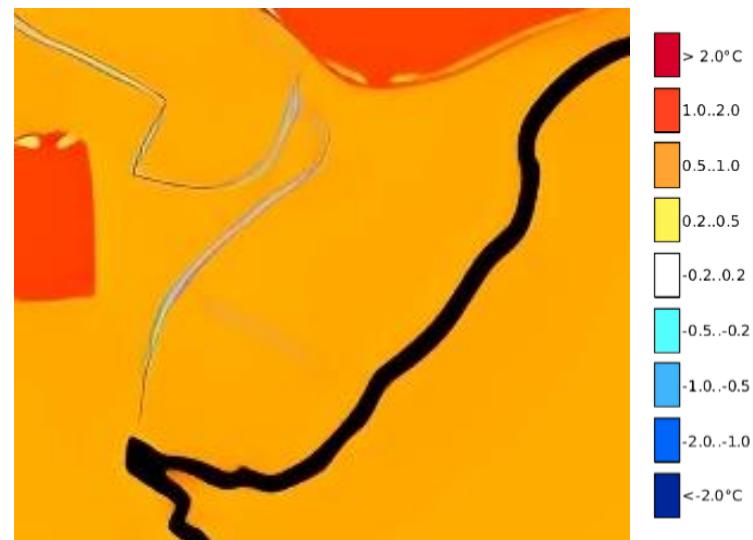
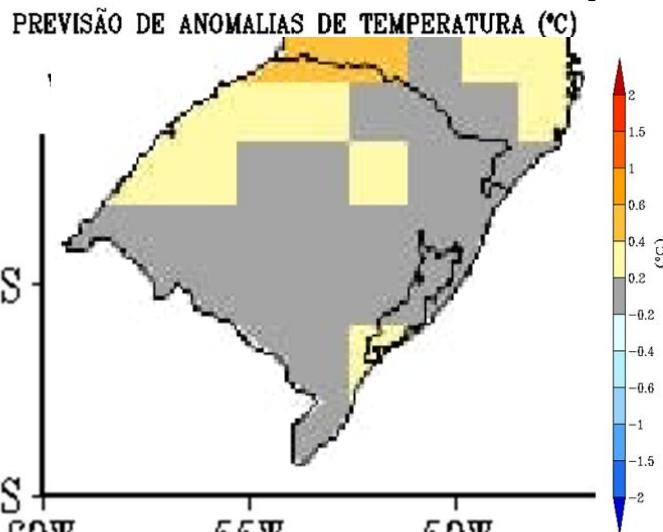


APCC



Previsões sazonais

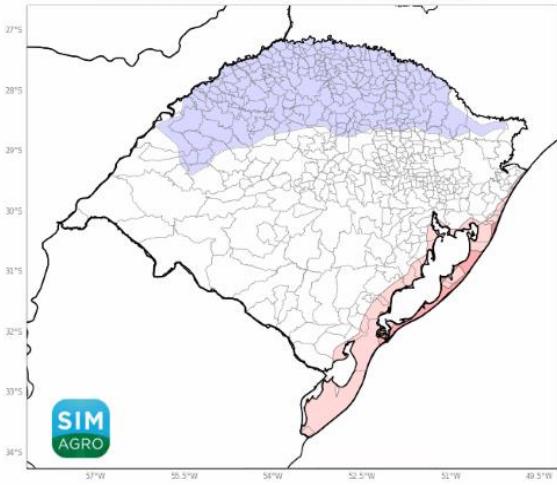
Previsões sazonais (JAS) - Temperatura (anomalias)



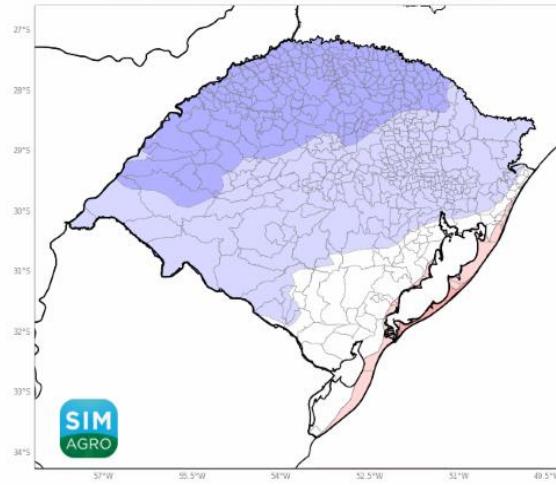
Previsões mensais – Temperatura (°C)

RegCM4

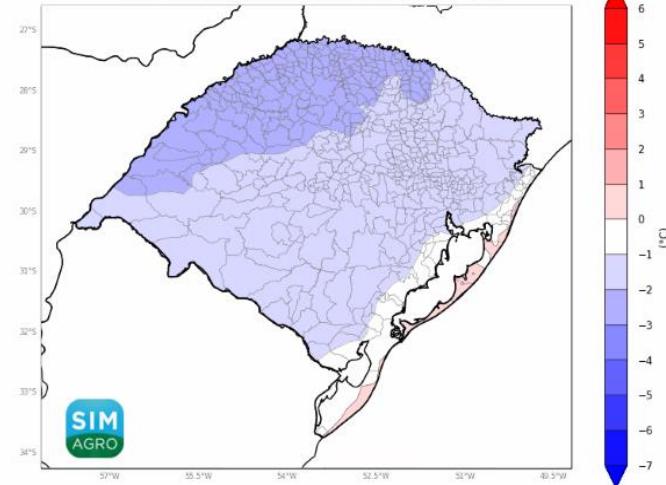
Previsão da anomalia de temperatura média do ar a 2m para Jul/2023
Ensemble iniciado em 06/2023 (26 membros) - Modelo RegCM4



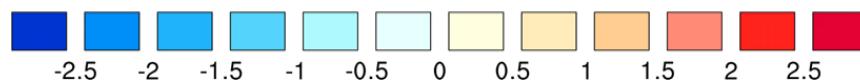
Previsão da anomalia de temperatura média do ar a 2m para Aug/2023
Ensemble iniciado em 06/2023 (26 membros) - Modelo RegCM4



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

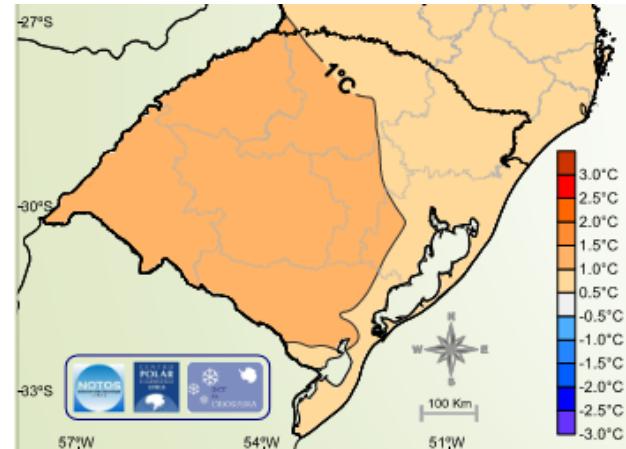
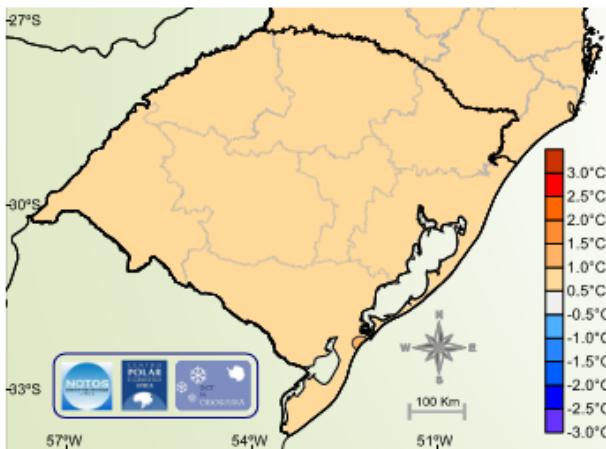
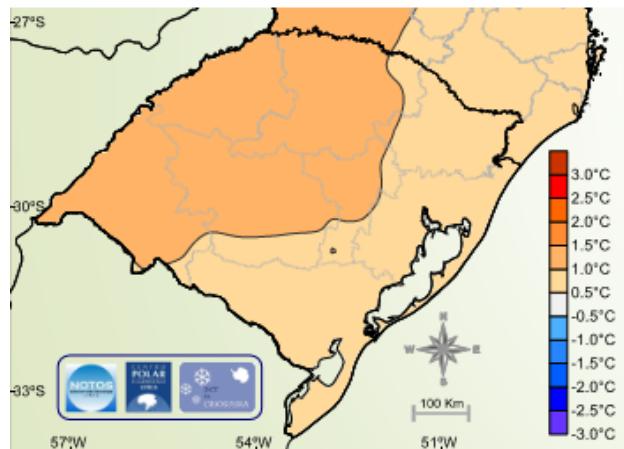


APCC

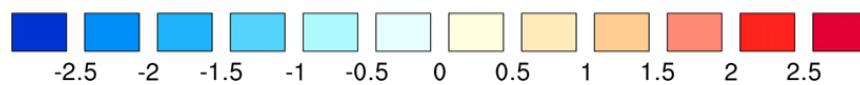


Previsões mensais – Temperatura (°C)

MoreClima

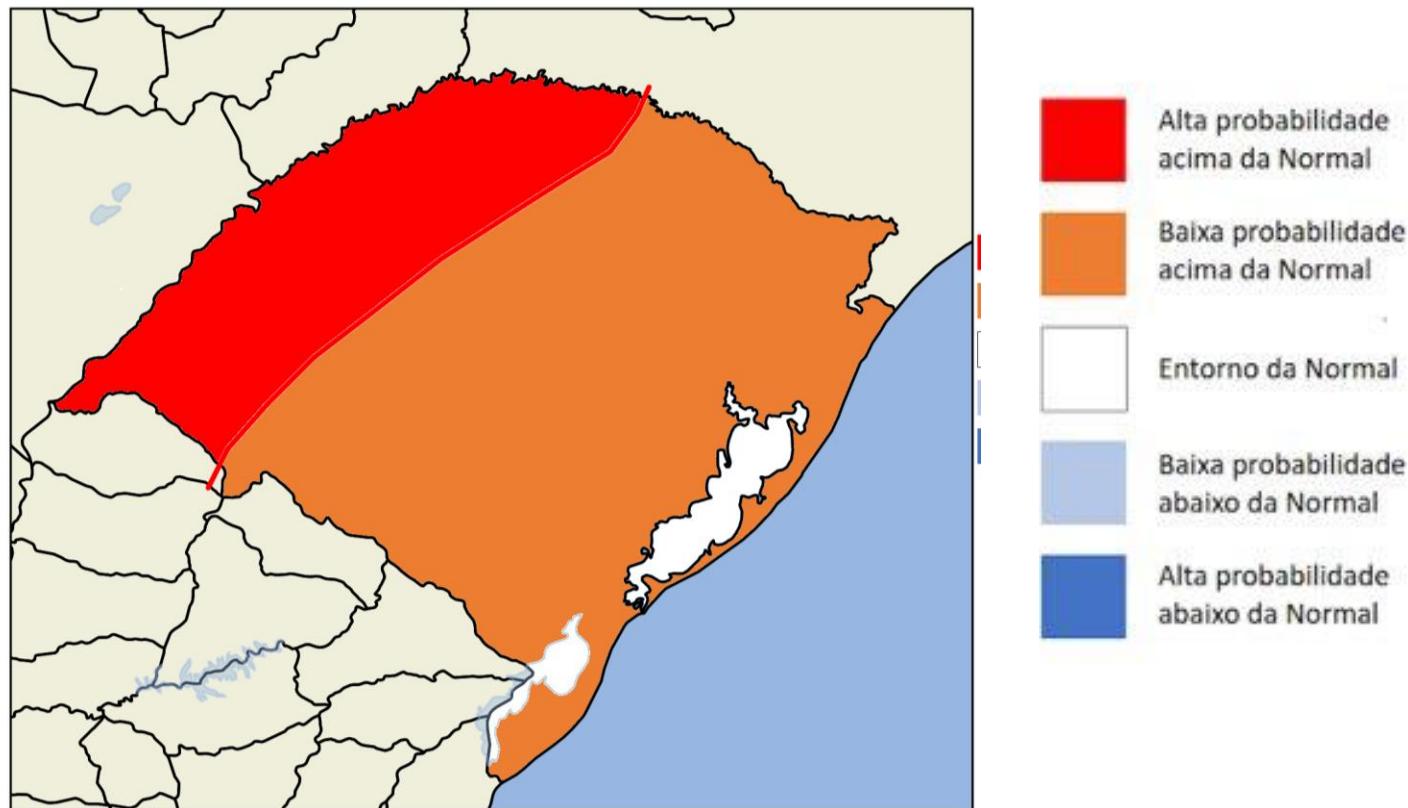


APCC



Previsão por consenso

Temperatura (JAS)



Previsão por consenso

Precipitação (JAS)

