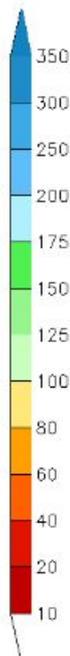
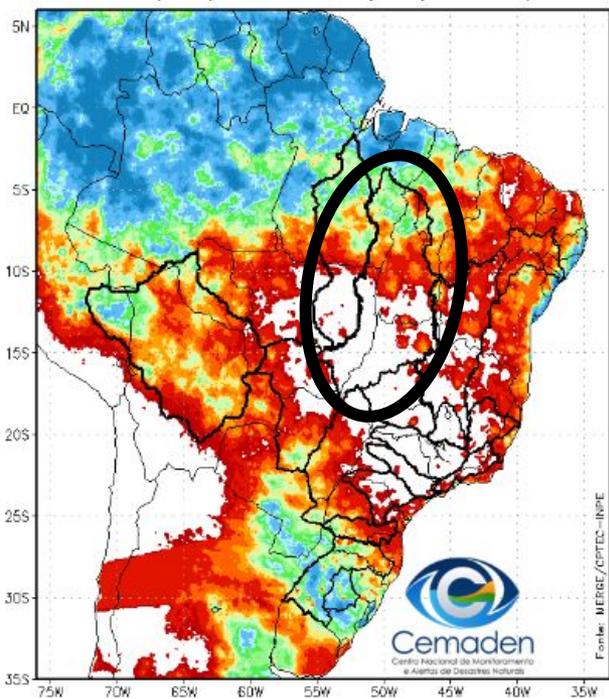


Monitoramento e Previsões para a Bacia do rio Tocantins

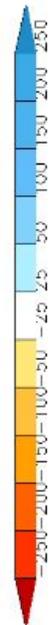
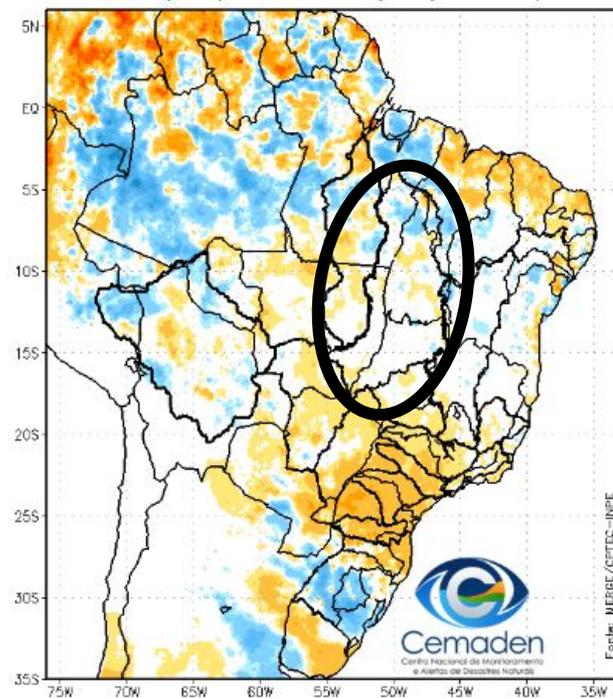


Precipitação acumulada nos últimos 30 dias

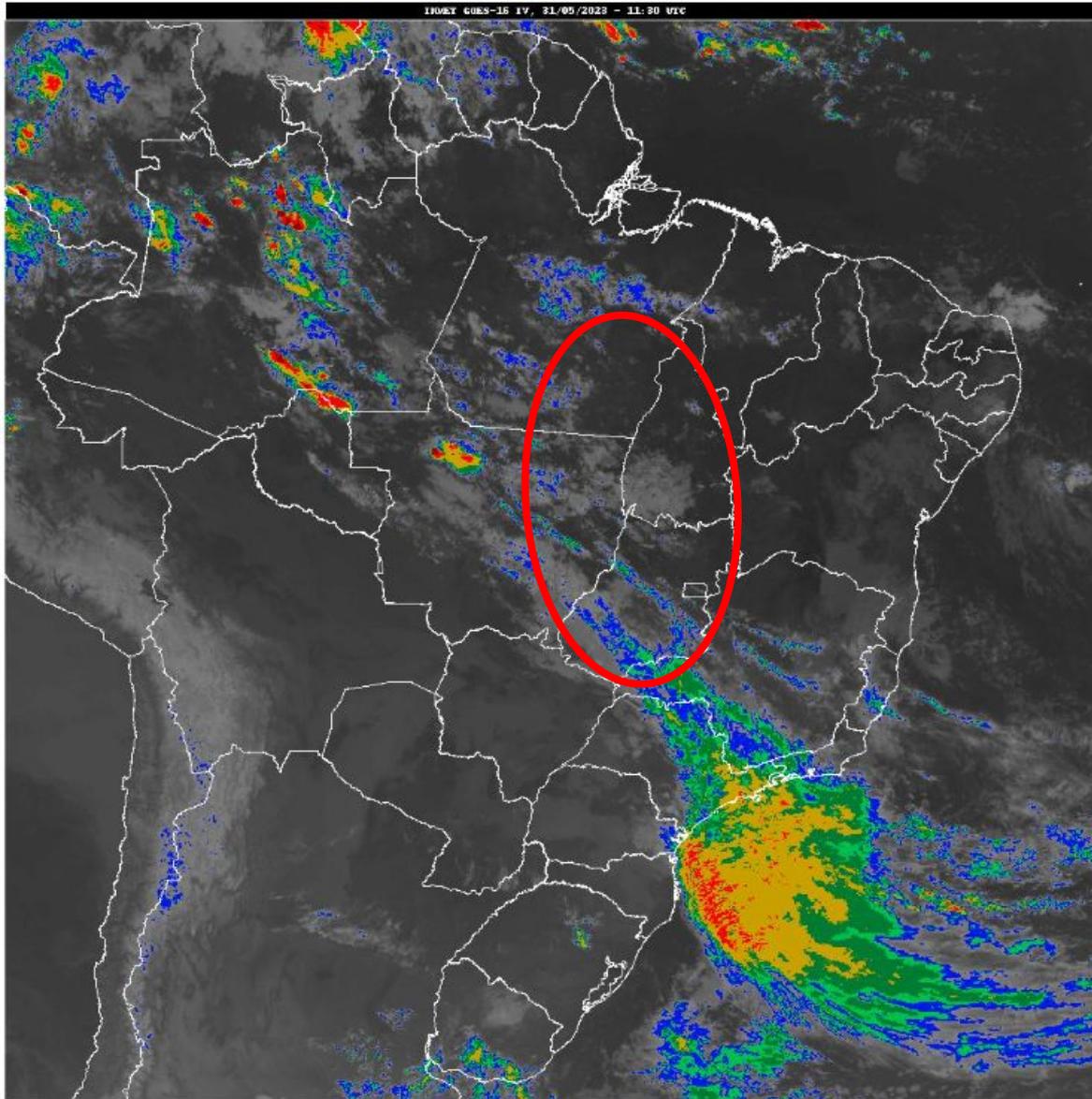
Precipitação Acumulada (mm) A.S.
Período: 30/04/2023 a 30/05/2023 (30 dias)



Anomalia de Precipitação (mm) A.S.
Período: 30/04/2023 a 30/05/2023 (30 dias)

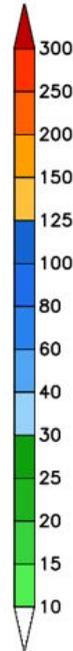
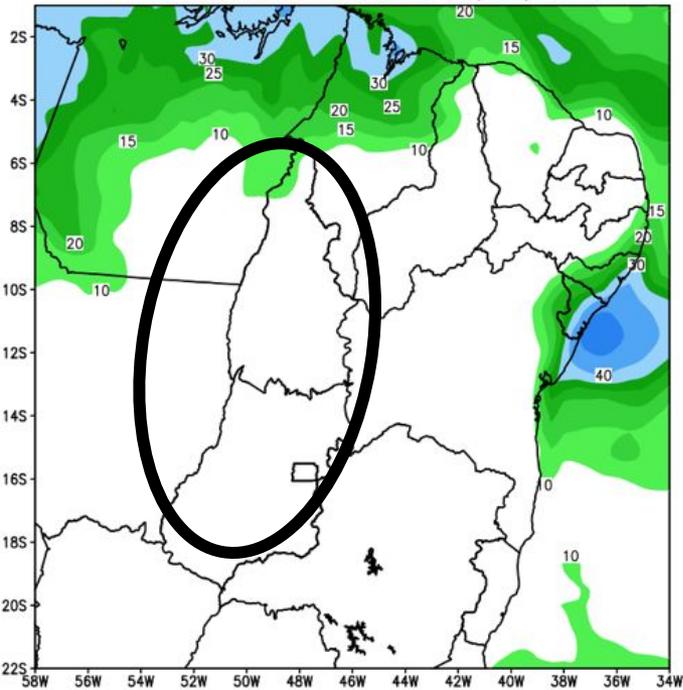


Situação meteorológica atual

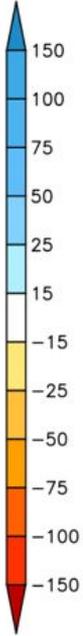
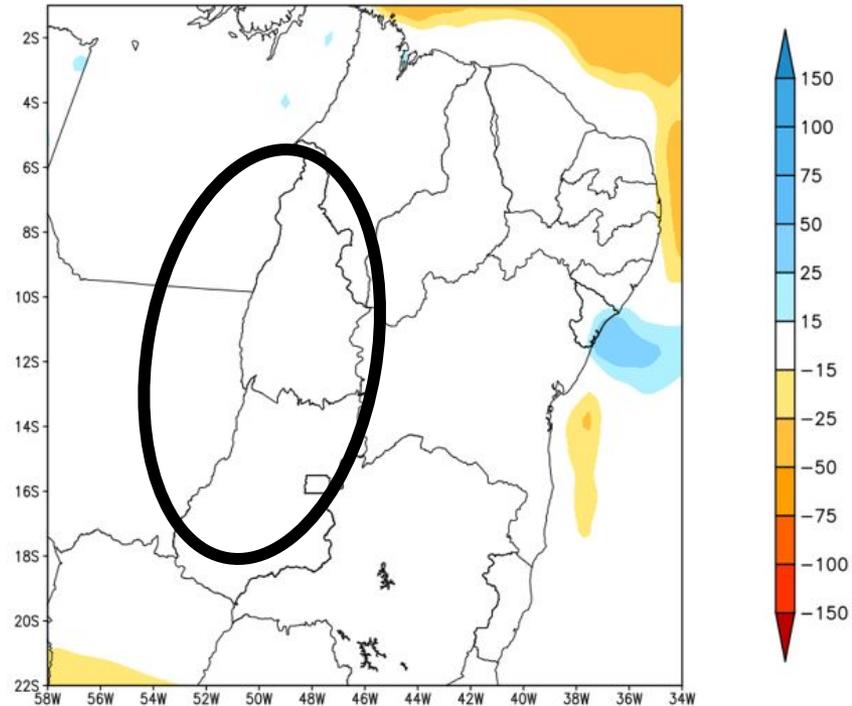


Previsão de chuva próximos 7 dias

GEFS / BRASIL_NE
Precipitacao acumulada 1aSem (mm)
Previsao das 00Z dia 31/05/2023



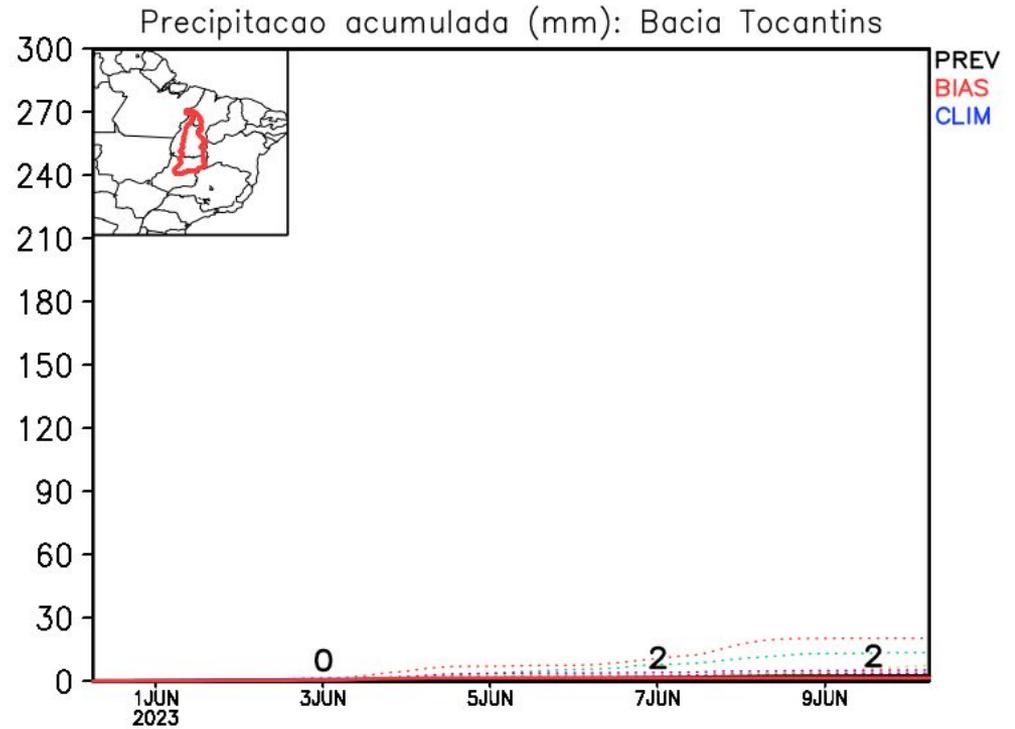
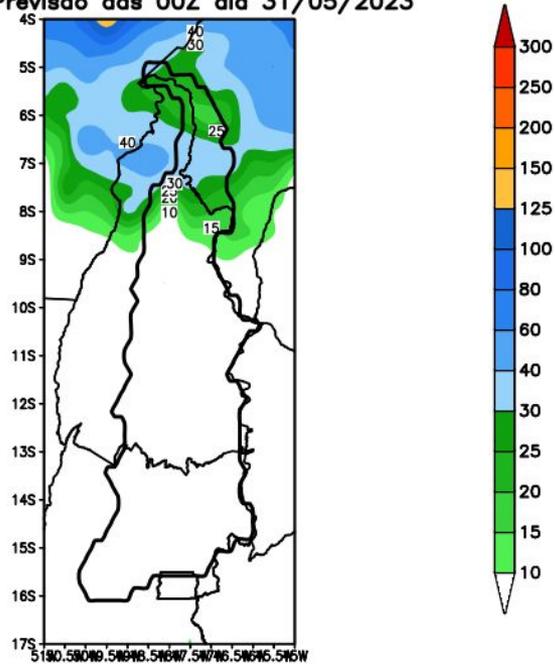
Anomalia de Precipitacao BR_NE (mm)
Periodo: 2023053100 a 2023060700



Fonte: GFS/NOAA

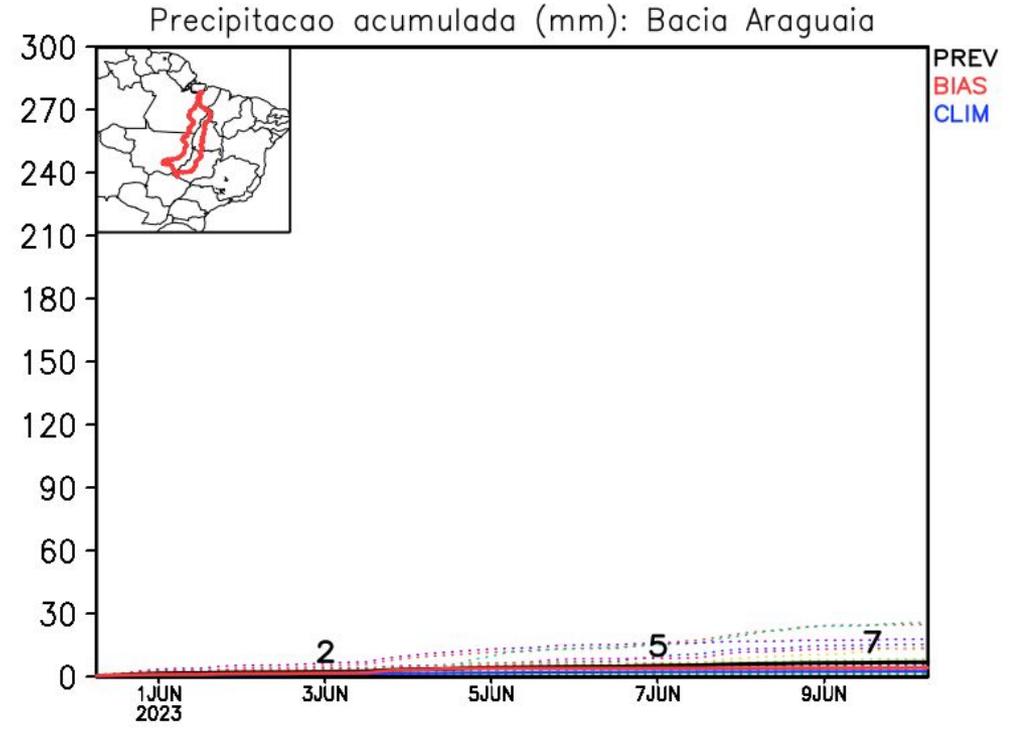
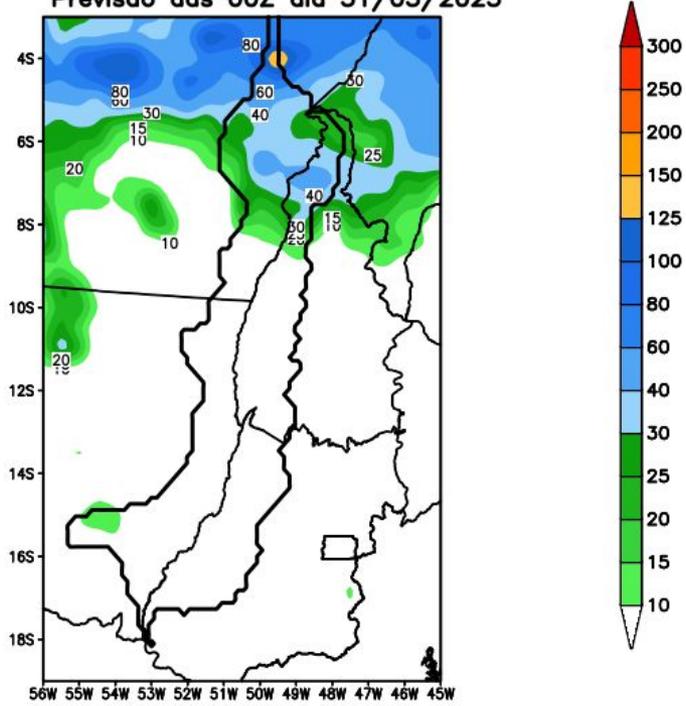
Previsão Bacia Rio Tocantins

GEFS_BC / Bacia Tocantins
Prec. acumulada com correcao de vies em 7 dias (mm)
Previsao das 00Z dia 31/05/2023

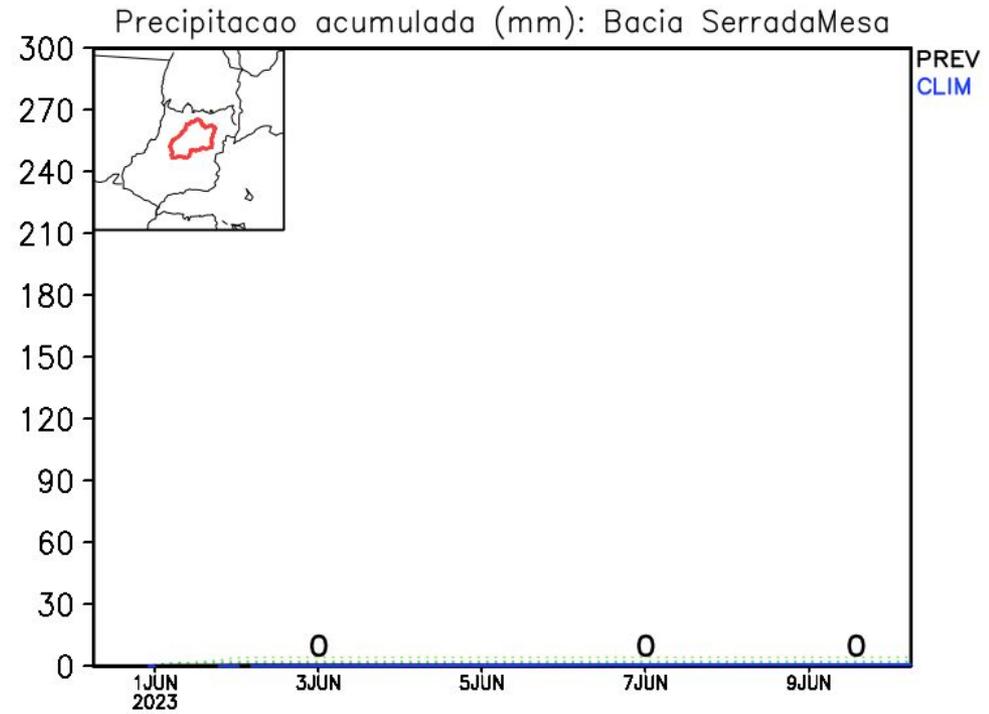
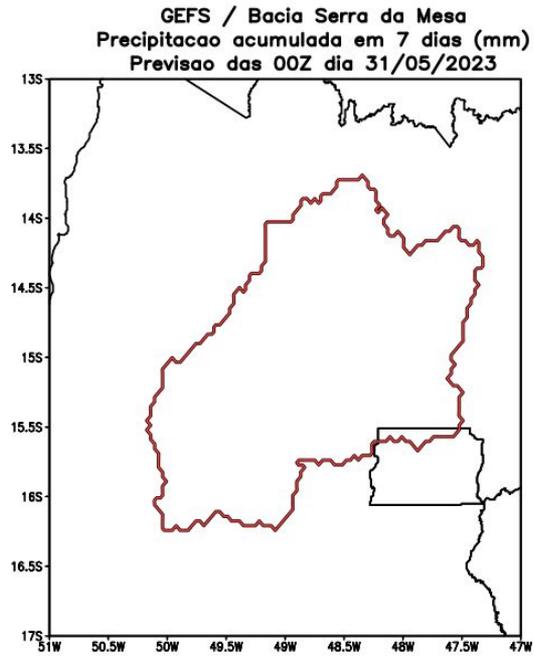


Previsão Bacia Rio Araguaia

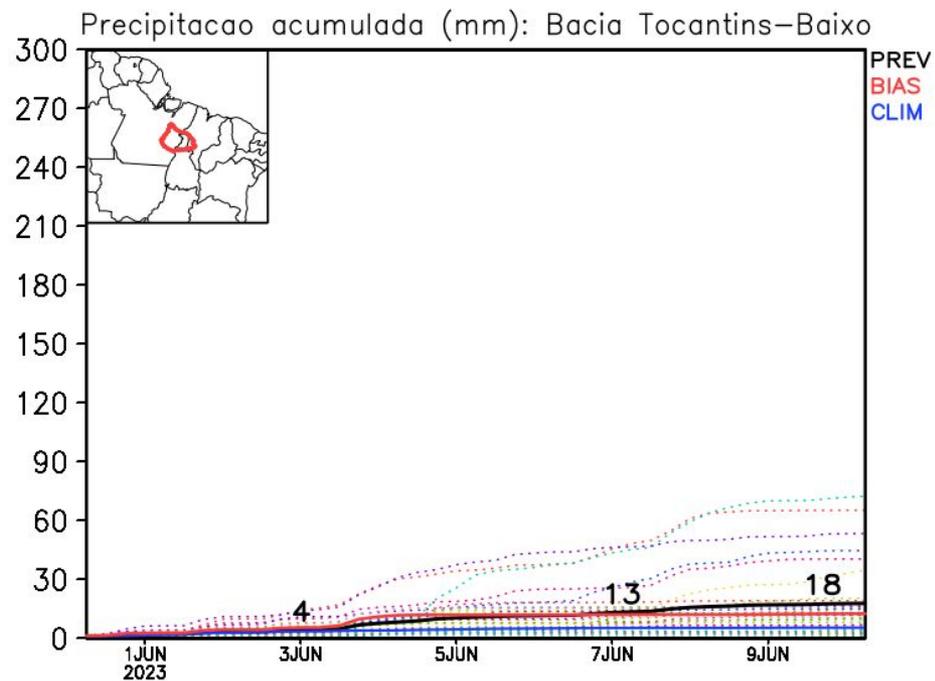
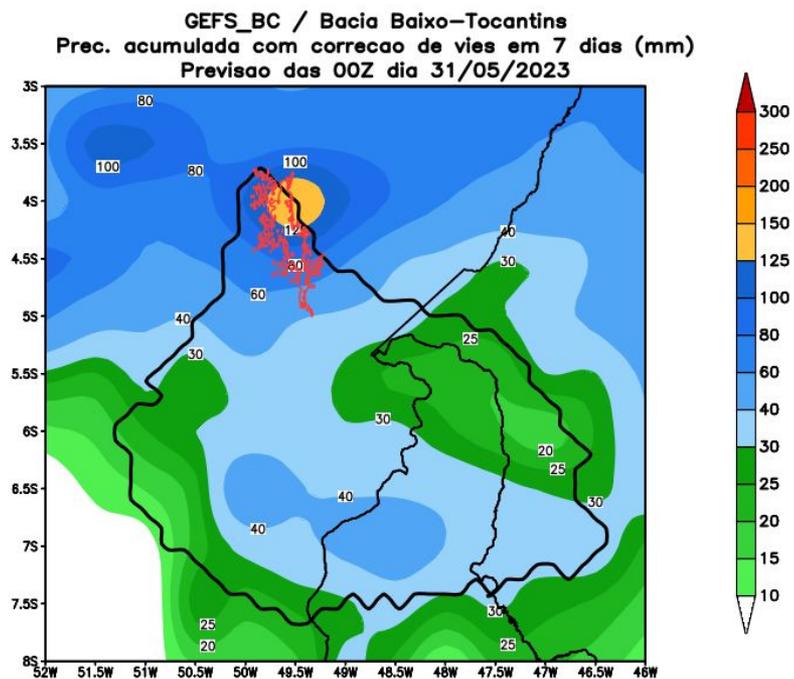
GEFS_BC / Bacia do Rio Araguaia
Prec. acumulada com correcao de vies em 7 dias (mm)
Previsao das 00Z dia 31/05/2023



Previsão Bacia Serra da Mesa

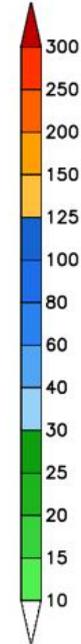
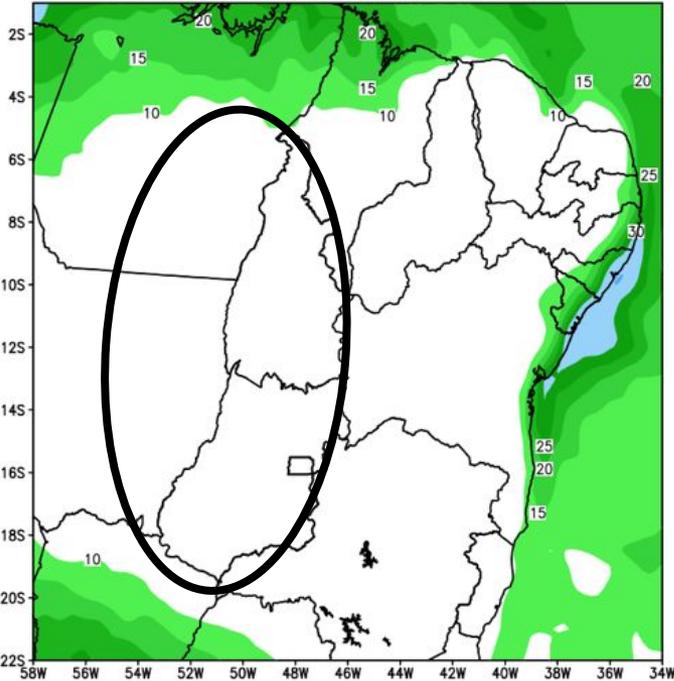


Previsão Bacia Tocantins-Araguaia (Baixo)

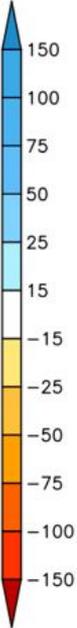
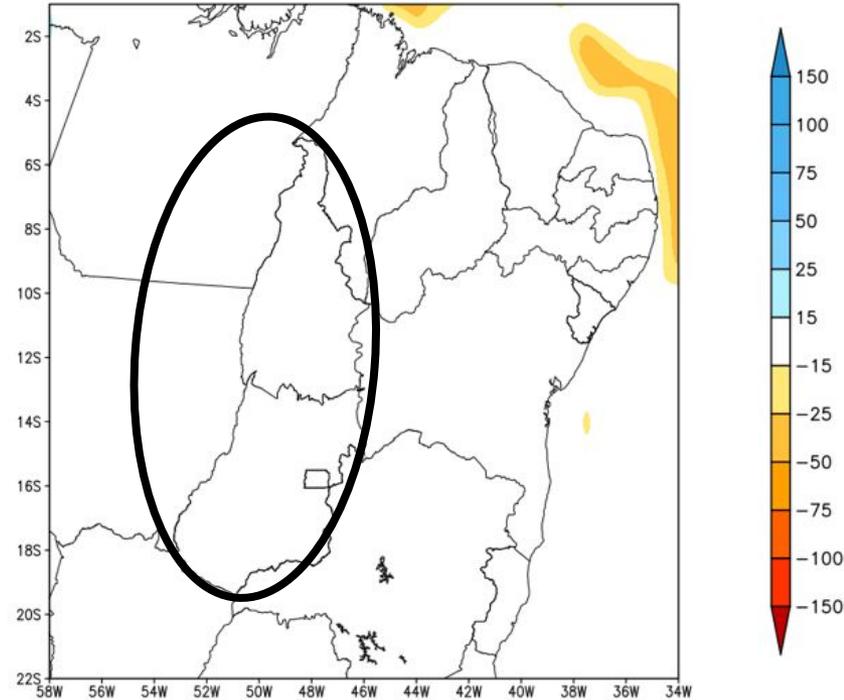


Tendência para a 2a Semana

GEFS / BRASIL_NE
Precipitacao acumulada 2aSem (mm)
Previsao das 00Z dia 31/05/2023

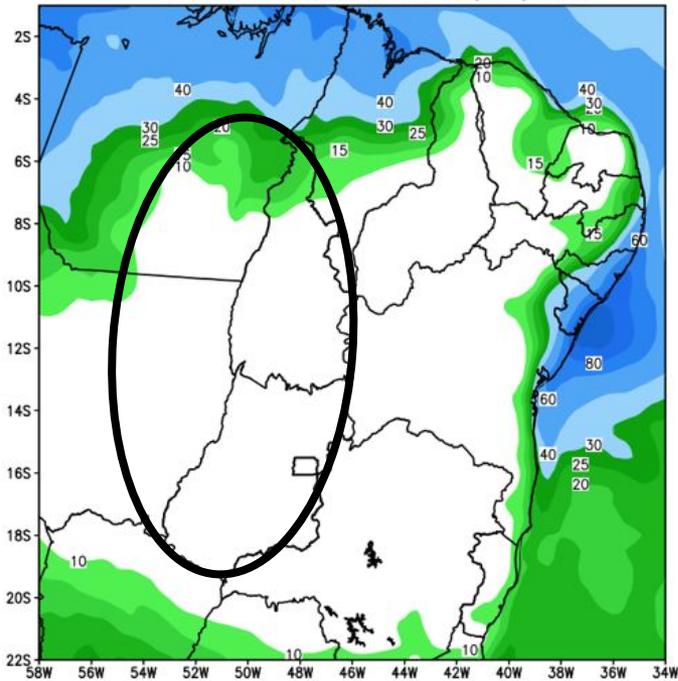


Anomalia de Precipitacao BR_NE (mm)
Periodo: 2023060800 a 2023061400

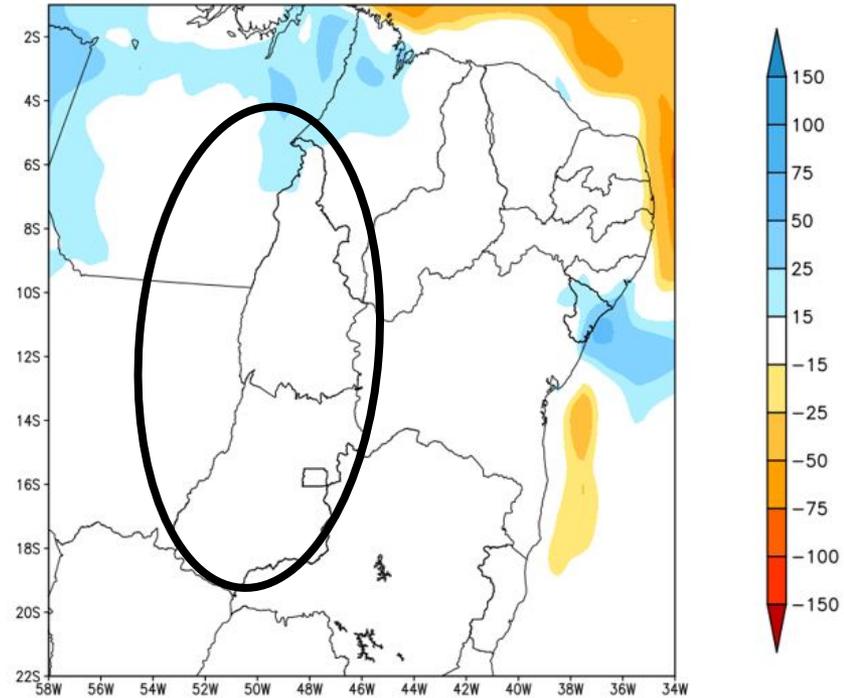


Tendência para as próximas duas semanas

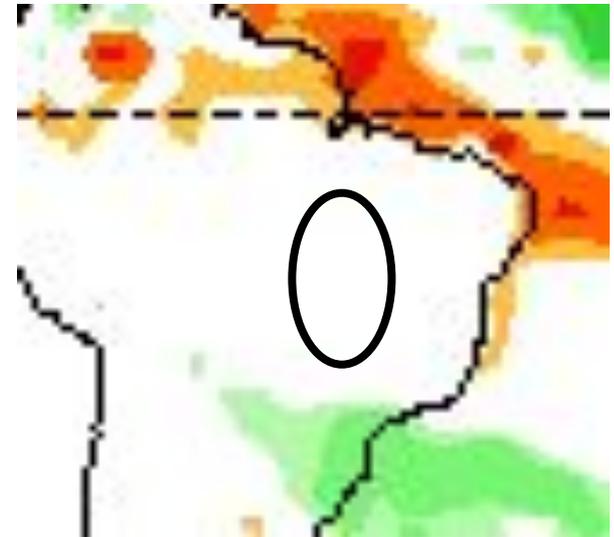
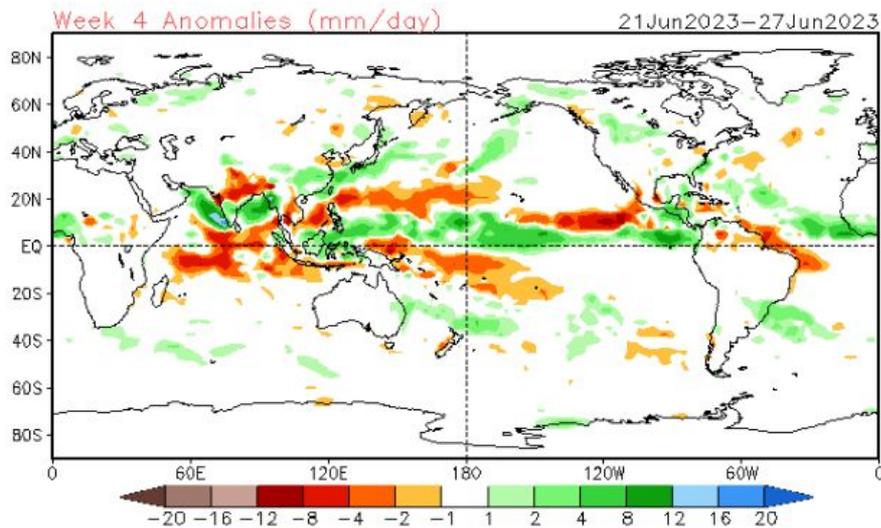
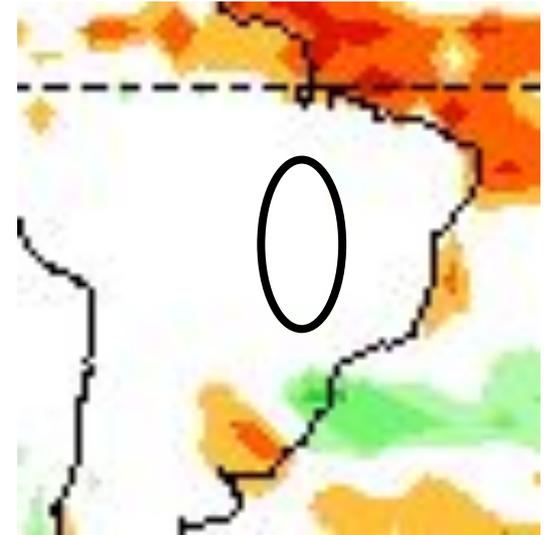
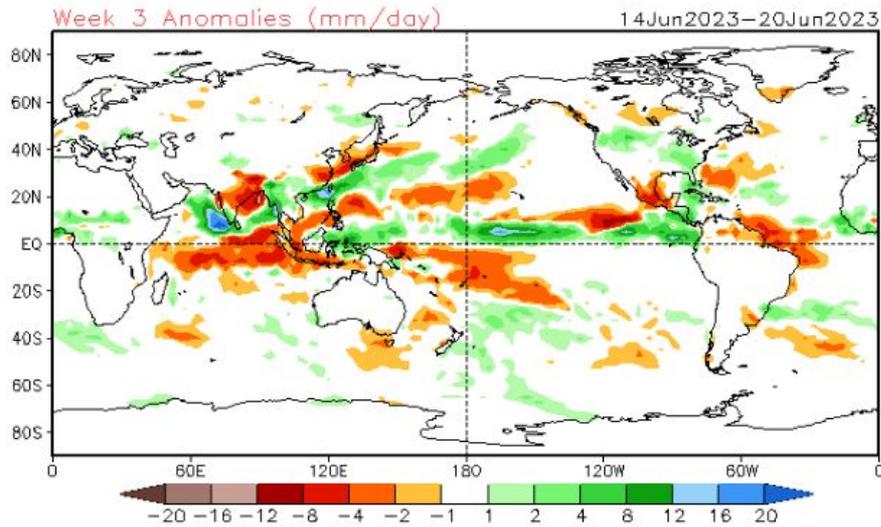
GEFS / BRASIL_NE
Precipitacao acumulada 14dias (mm)
Previsao das 00Z dia 31/05/2023



Anomalia de Precipitacao BR_NE (mm)
Periodo: 2023053100 a 2023061400



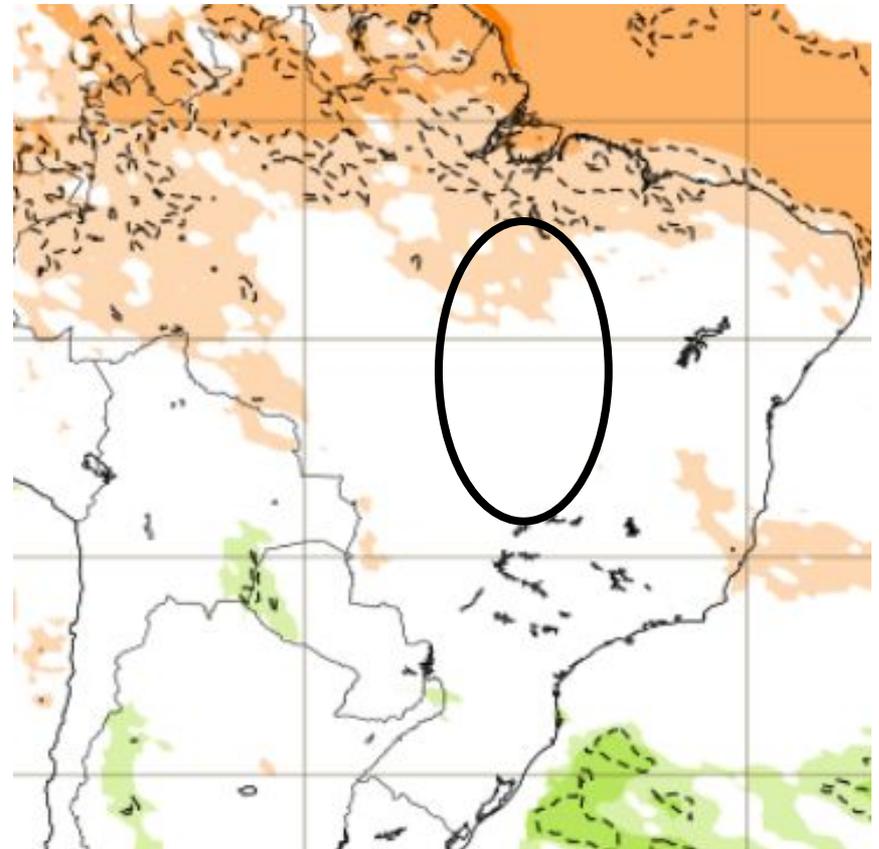
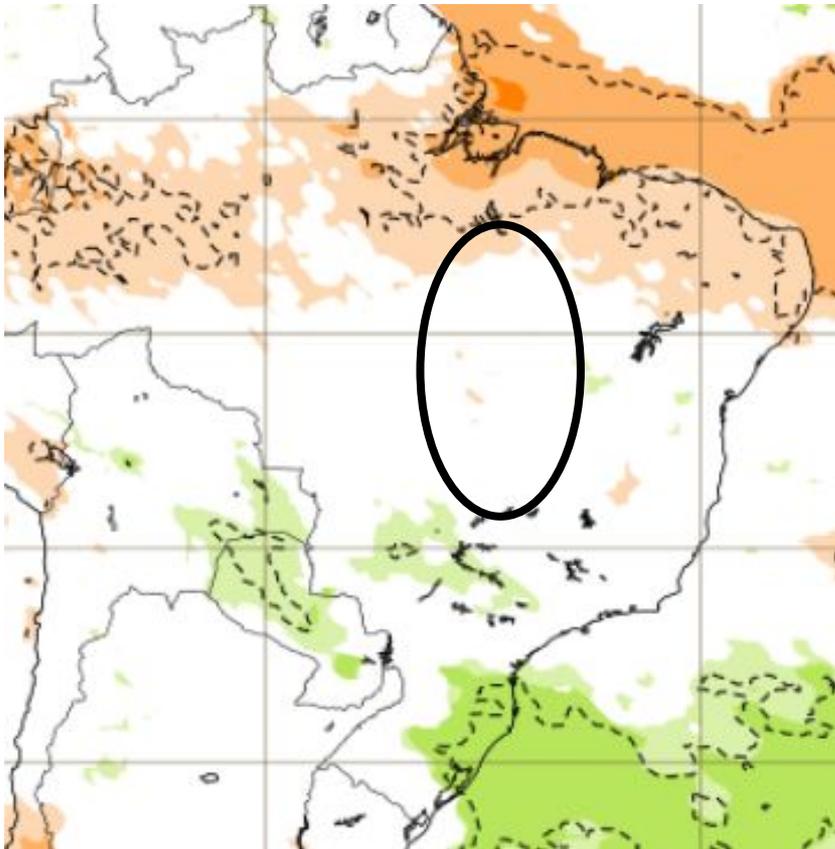
Tendência 3a e 4a semanas



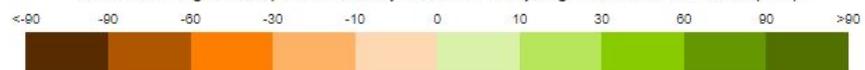
Tendência para 3ª e 4ª semanas

12-18/06

19-25/06



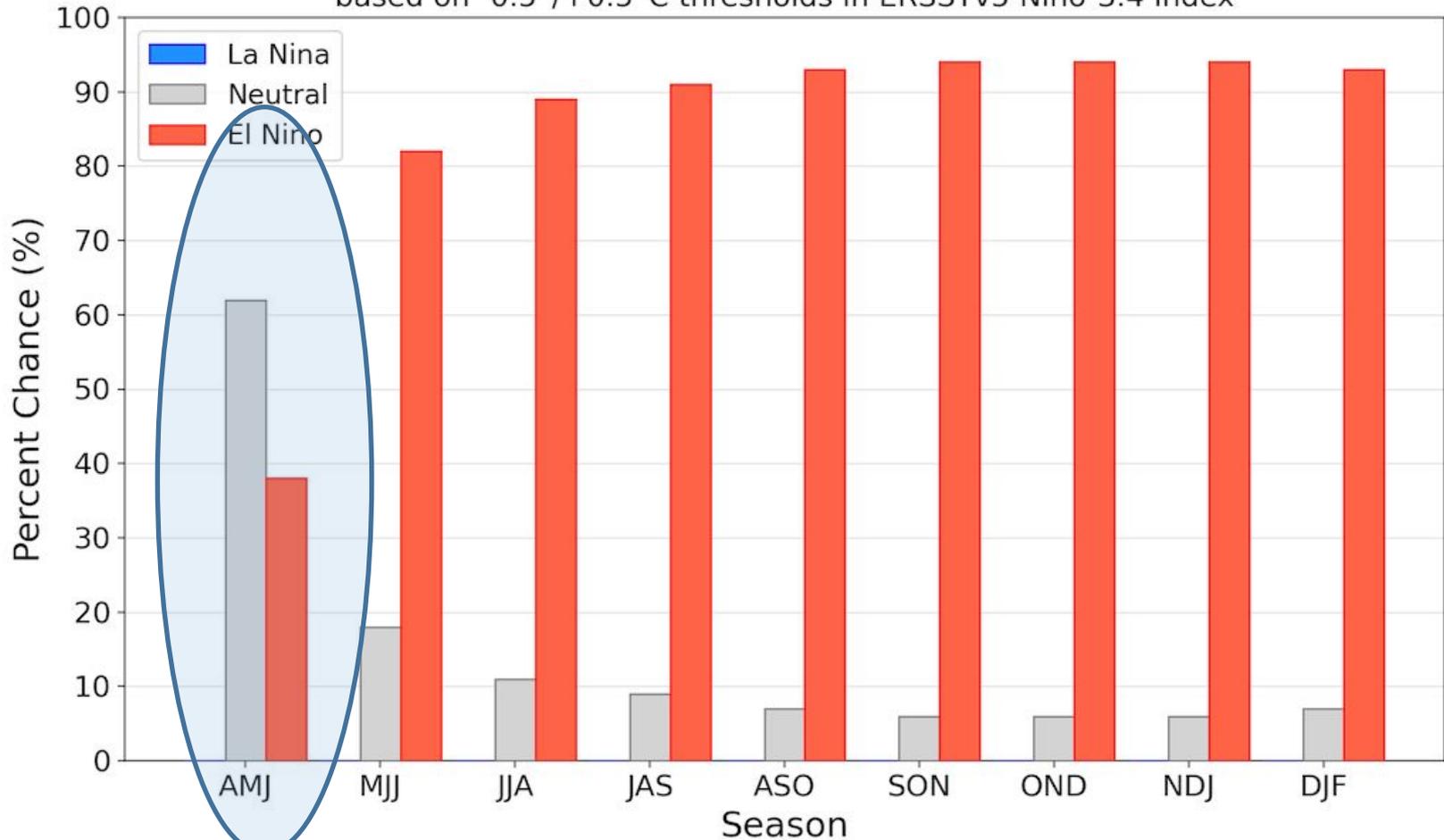
Extended range: Precipitation weekly mean anomaly, significance level: 10 % (mm)



Previsão do “ENSO”

Official NOAA CPC ENSO Probabilities (issued May 2023)

based on $-0.5^{\circ}/+0.5^{\circ}\text{C}$ thresholds in ERSSTv5 Niño-3.4 index

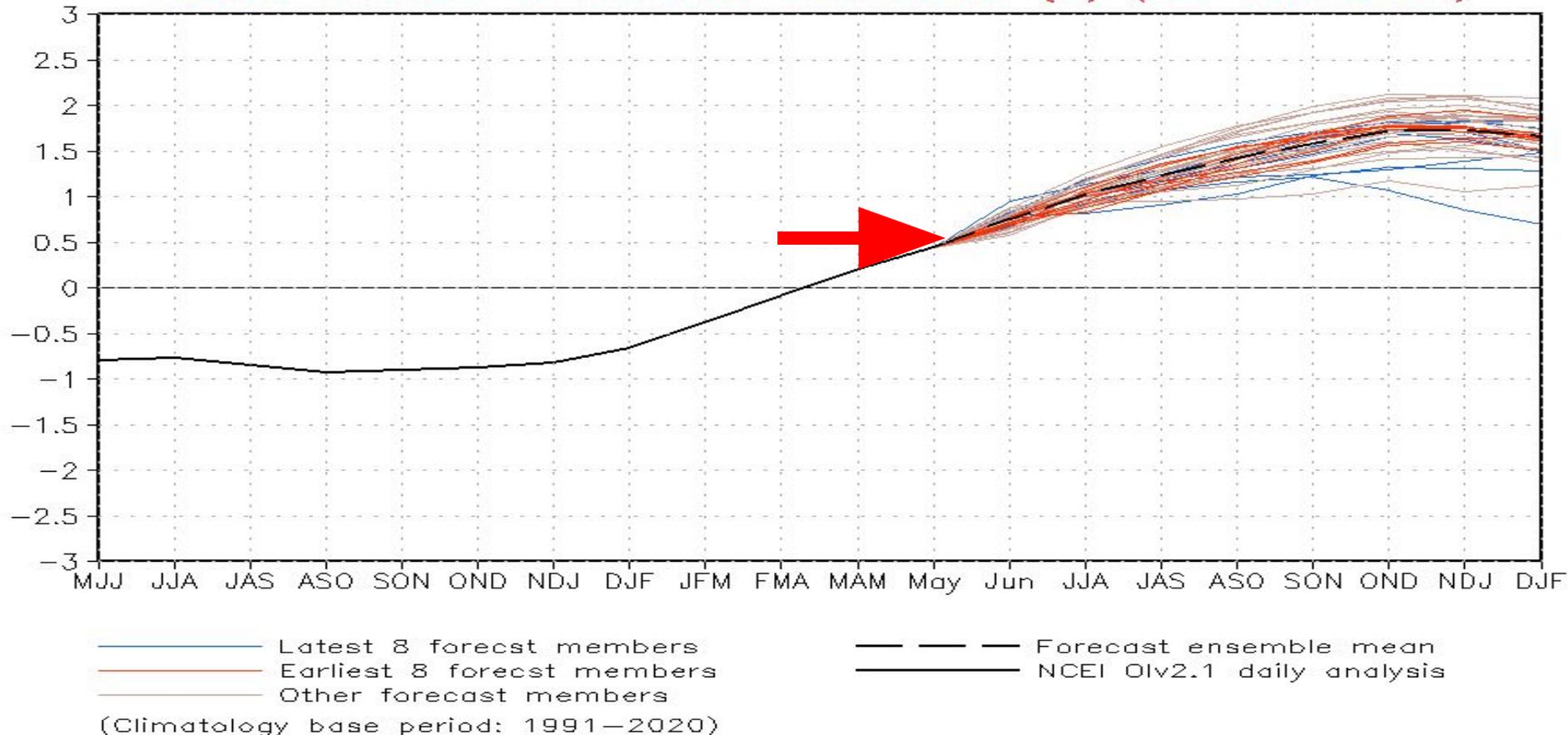


Status Atual: **Neutralidade**

FONTE: NOAA

Previsão do “ENSO”

CFSv2 forecast Nino3.4 SST anomalies (K) (PDF corrected)

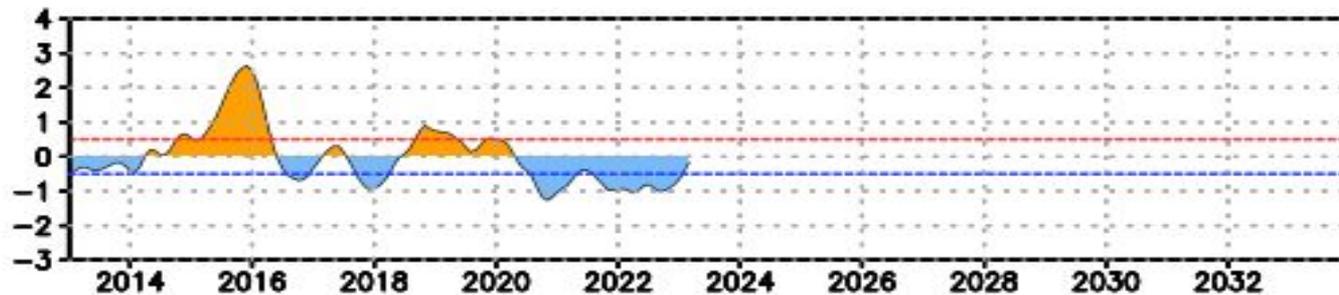
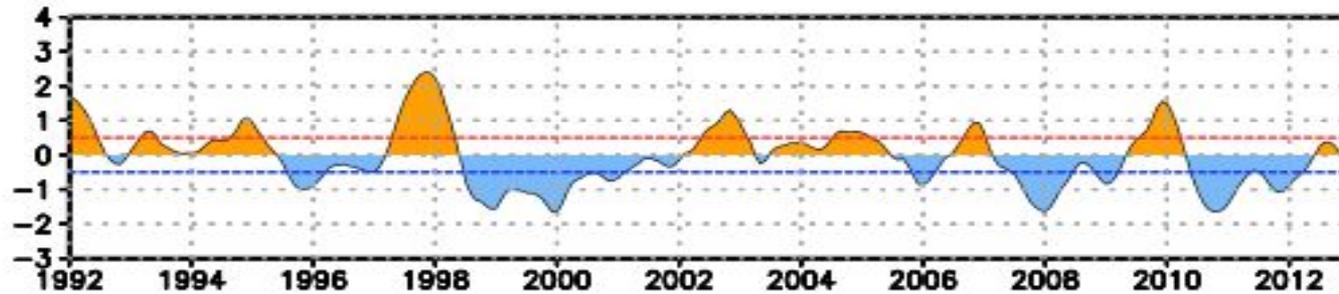
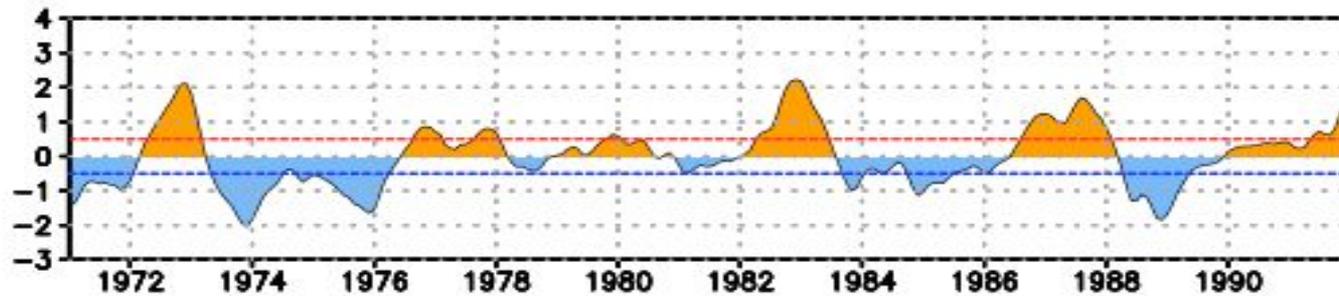
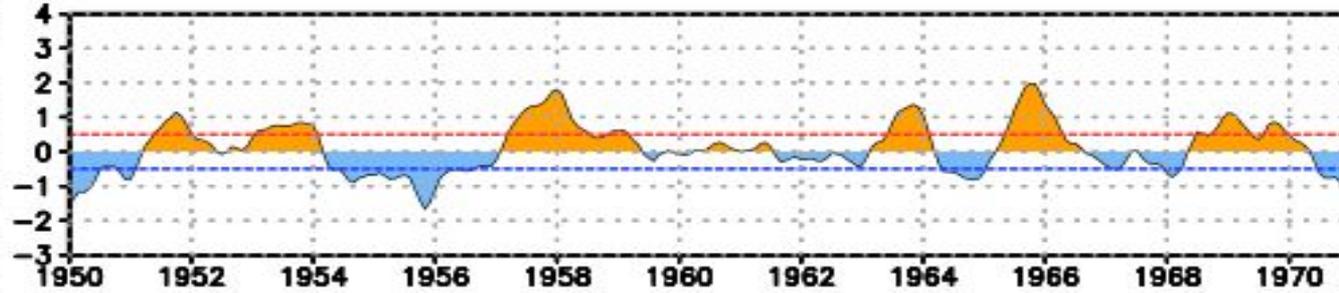


Atualizado: 22 de Maio 2023

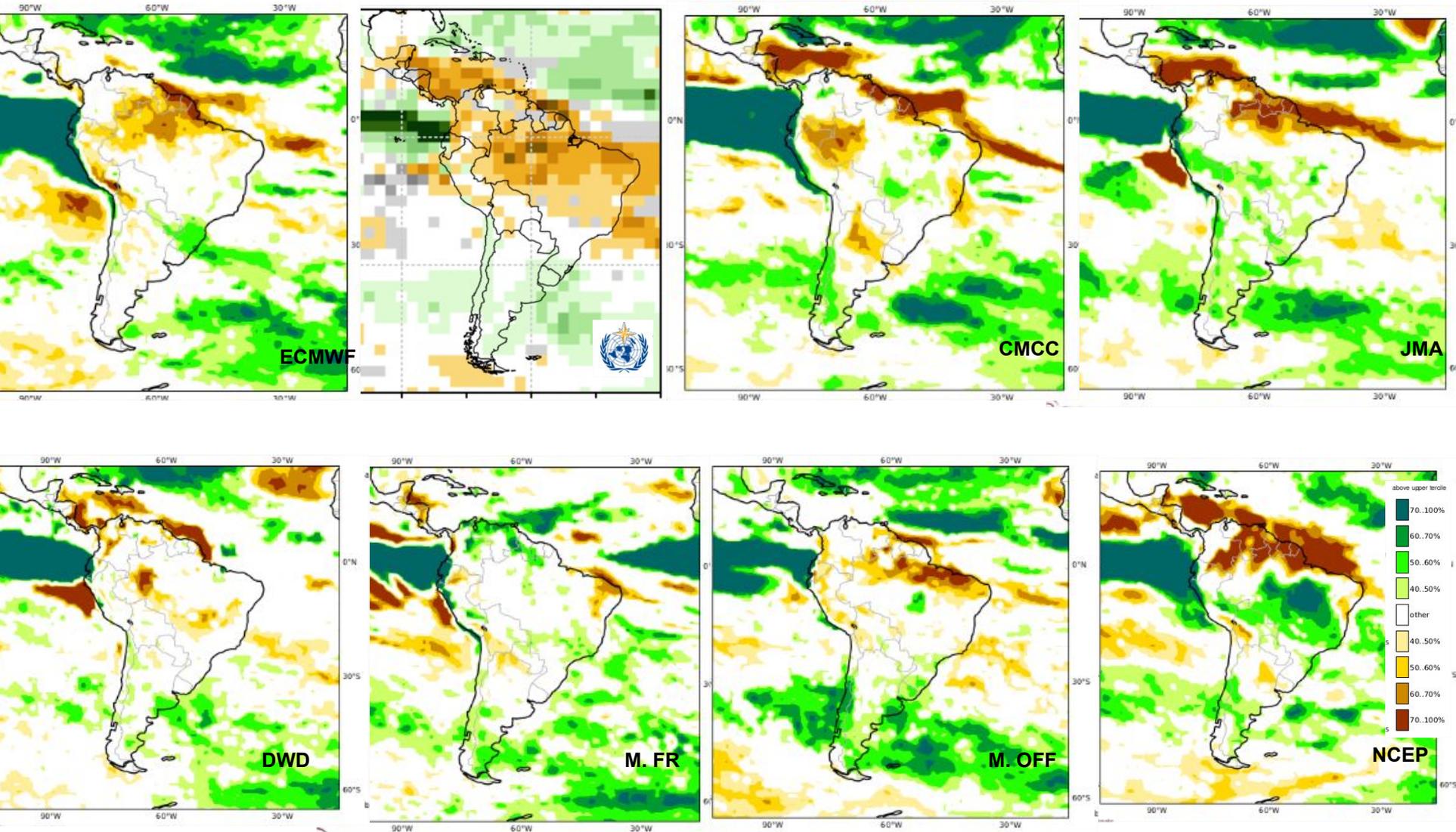
Oceanic Nino Index (ERSST.v5 ONI)

3mmr Nino 3.4 SST Anomalies (varying 30yr base period)

SST Anoms (C)



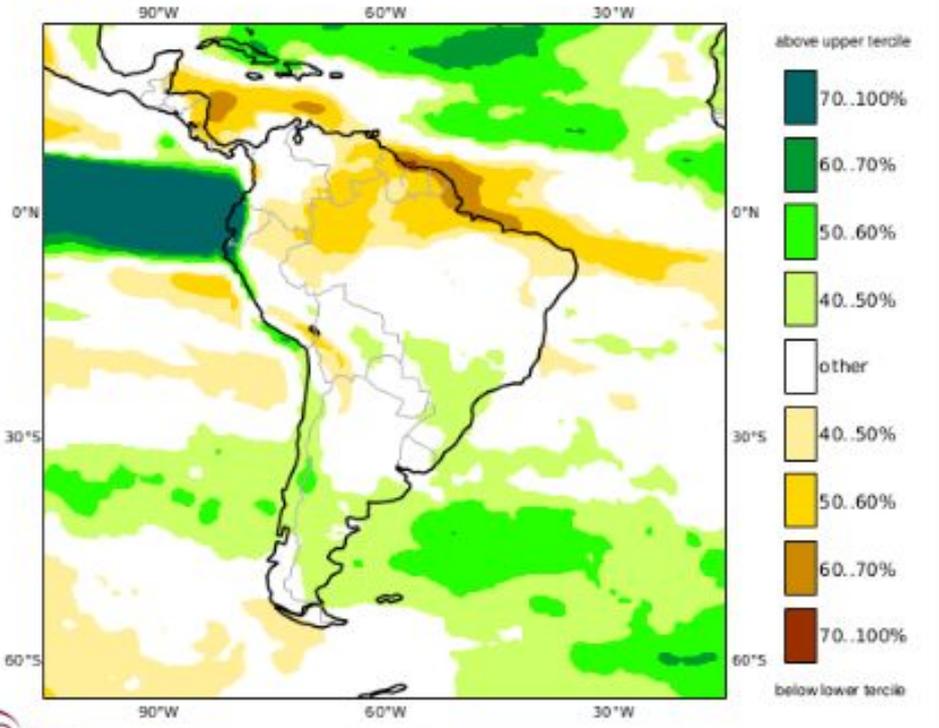
Previsão sazonal de Chuva JJA



Previsão Multi Modelo JJA

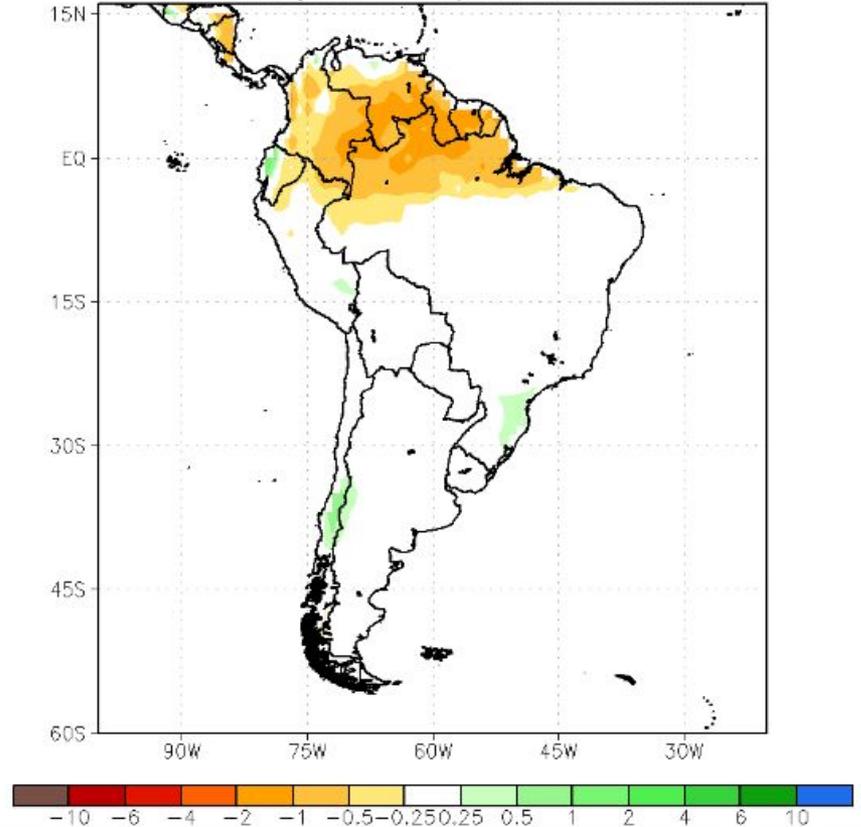
C3S multi-system seasonal forecast
Prob(most likely category of precipitation)
Nominal forecast start: 01/05/23
Unweighted mean

JJA 2023

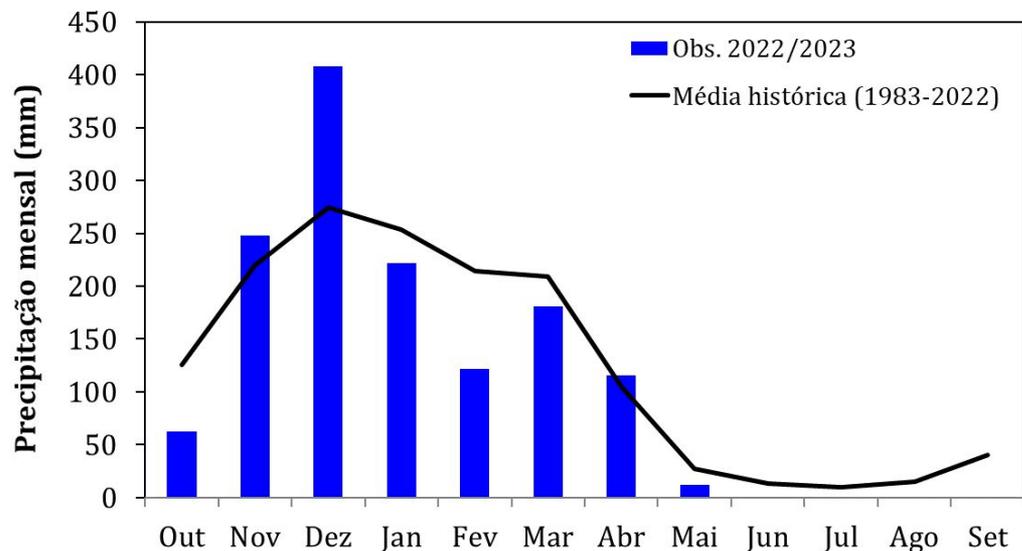


NMME Precipitation Anomalies (mm/day)

Jun2023-Aug2023 May2023 initial conditions



Monitoramento UHE Serra da Mesa



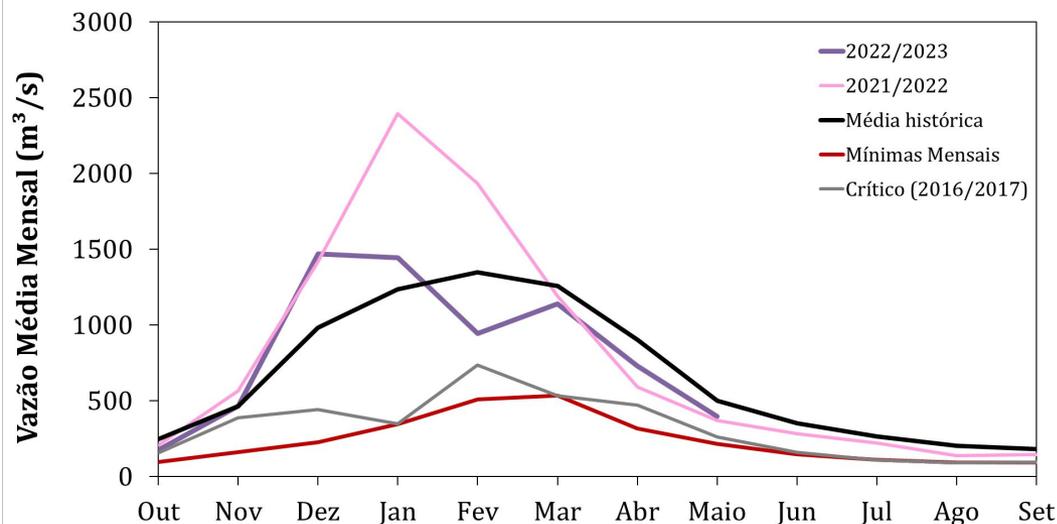
Precipitação

Estação Chuvosa - Out a Abr – 1402 mm
 2021/2022: 1473 mm (105% da média histórica)
 2022/2023*: 1358 mm (97% da média histórica)

Estação Seca - Maio a Set – 106 mm
 2021: 28 mm (26% da média histórica)
 2022: 54 mm (51% da média histórica)

Maio/2023*: 12 mm (45% da média histórica)

*Até 29/05/2023



Vazão

Estação Chuvosa - Out a Abr – 918 m³/s
 2021/2022: 1184 m³/s (129% da MLT)
 2022/2023: 909 m³/s (99% da MLT)

Estação Seca - Maio a Set – 300 m³/s
 2021: 203 m³/s (68% da MLT)
 2022: 231 m³/s (77% da MLT)

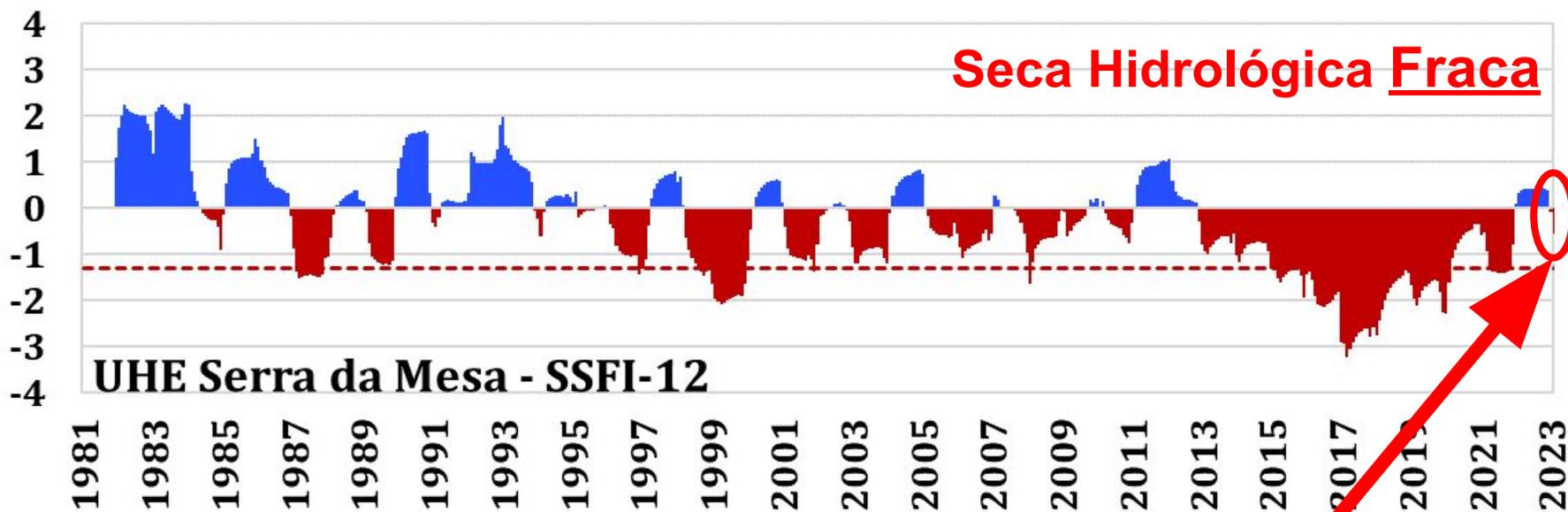
Maio/2023*: 398 m³/s (80% da MLT)
29/Maio/2023: 320 m³/s (64% da MLT)

*Até 29/05/2023

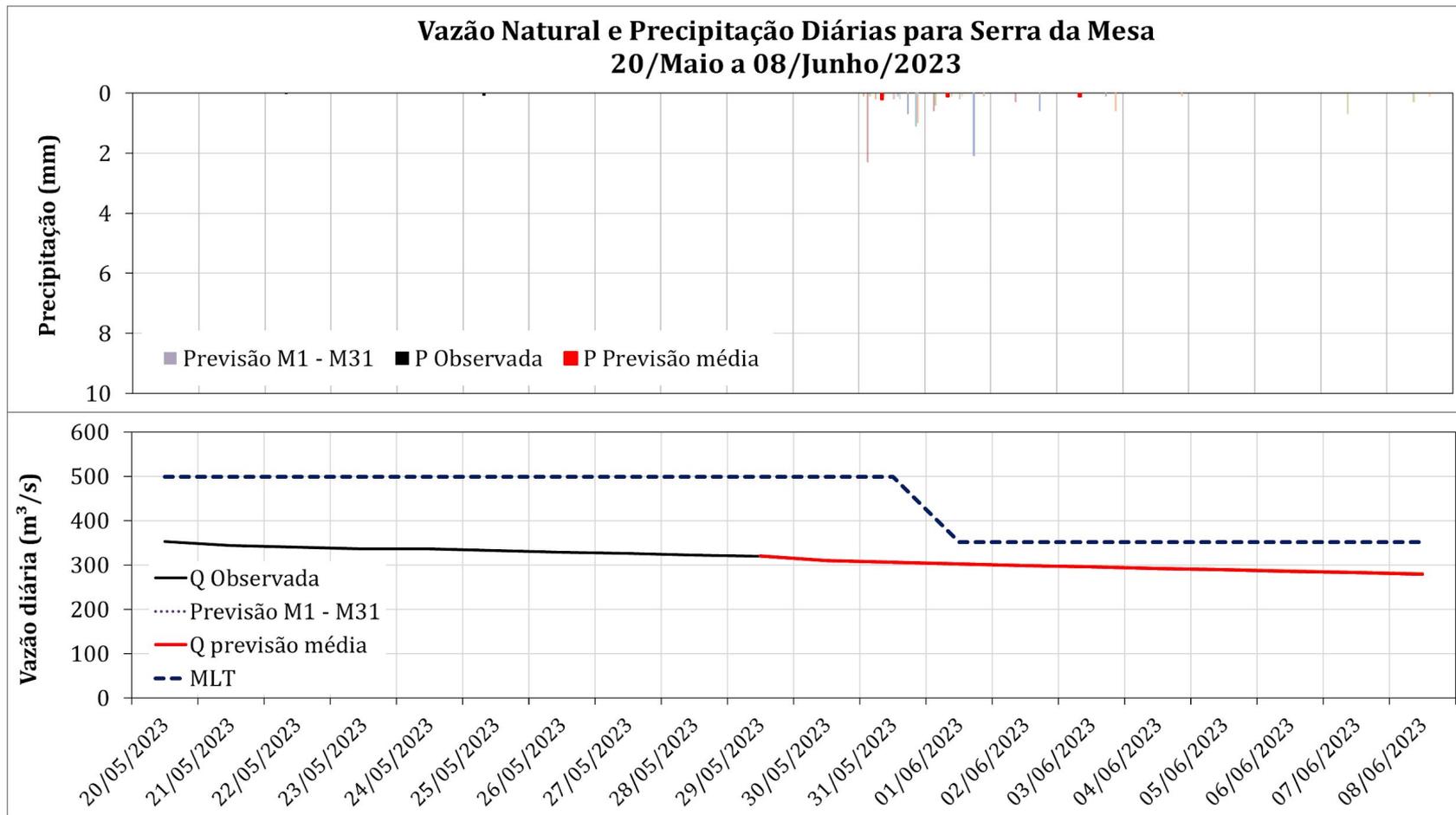
Monitoramento

UHE Serra da Mesa

Índice Padronizado de Vazão (SSFI)



Serra da Mesa: Previsão de Vazão (modelo hidrológico PDM-CEMADEN)



Dados **observados de precipitação** (barras pretas) para o período 20 a 29/05/23 e **previsão** para o período de 30/05 a 08/06/23.

Dados **observados de vazão** (linha preta) para o período 20 a 29/05/23 e **previsão** para o período de 30/05 a 08/06/23.

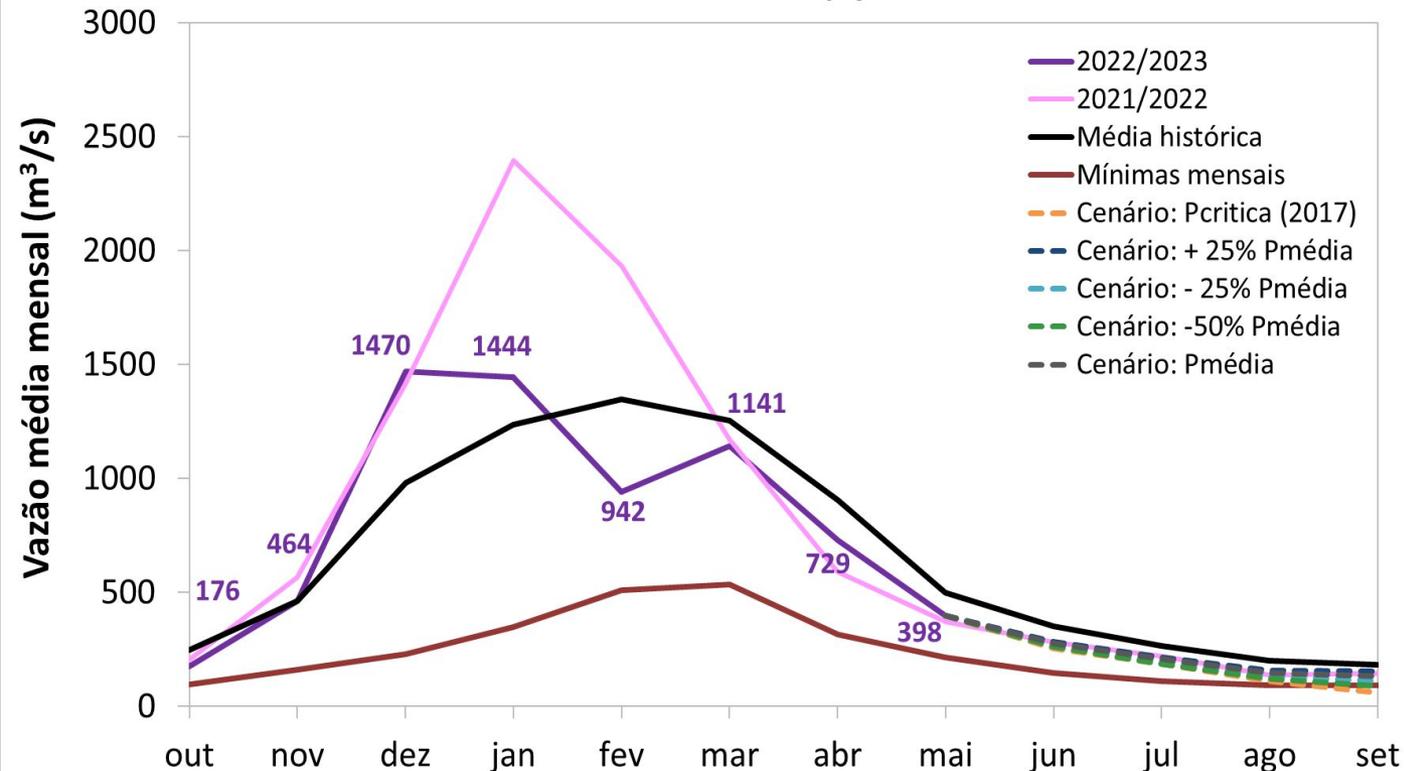
As barras coloridas correspondem às previsões da chuva para os 31 membros GEFS/NOAA e à média destes membros.

As linhas coloridas representam os membros de previsão de vazão.

Previsão média para os próximos 10 dias: 294 m³/s

Serra da Mesa: Projeção de Vazão (modelo hidrológico PDM-CEMADEN)

Previsão: 30/ Maio a 08/Jun - Projeções: 09/Jun a 30/Set/23



Junho a Setembro

MLT: 250 m³/s

Jun a Set/2022 = 197 m³/s (79% da MLT)

Se chover na média, teríamos uma condição de vazão similar ao que aconteceu em 2022!

Vazão	%
202 m³/s	81%
189 m³/s	76%
177 m³/s	71%
153 m³/s	61%