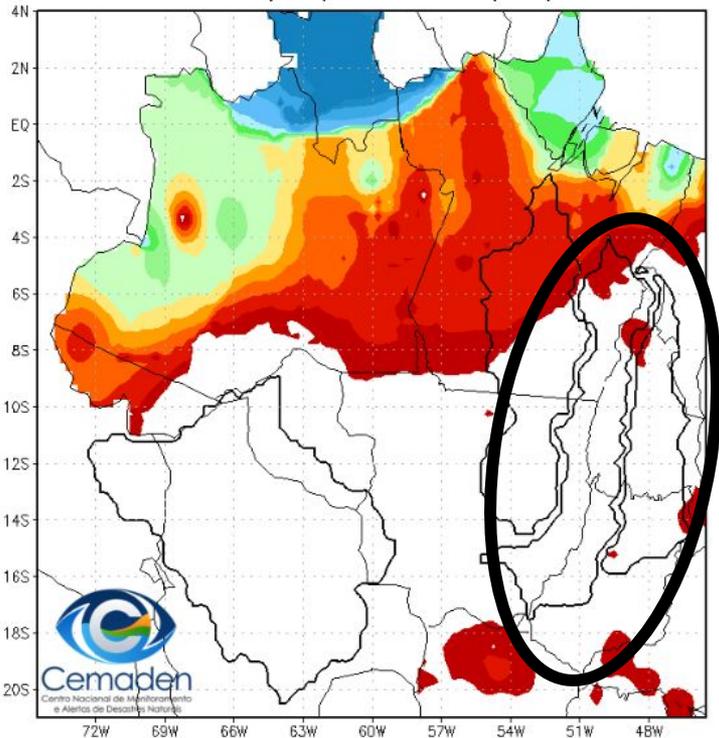


# Monitoramento e Previsões para a Bacia do rio Tocantins

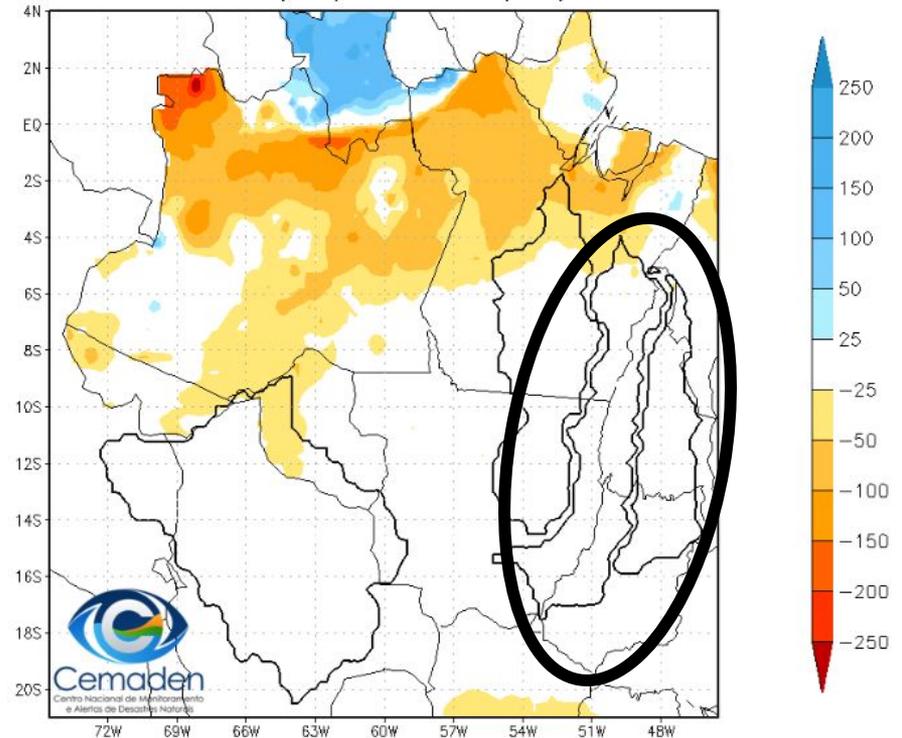


# Precipitação acumulada nos últimos 30 dias

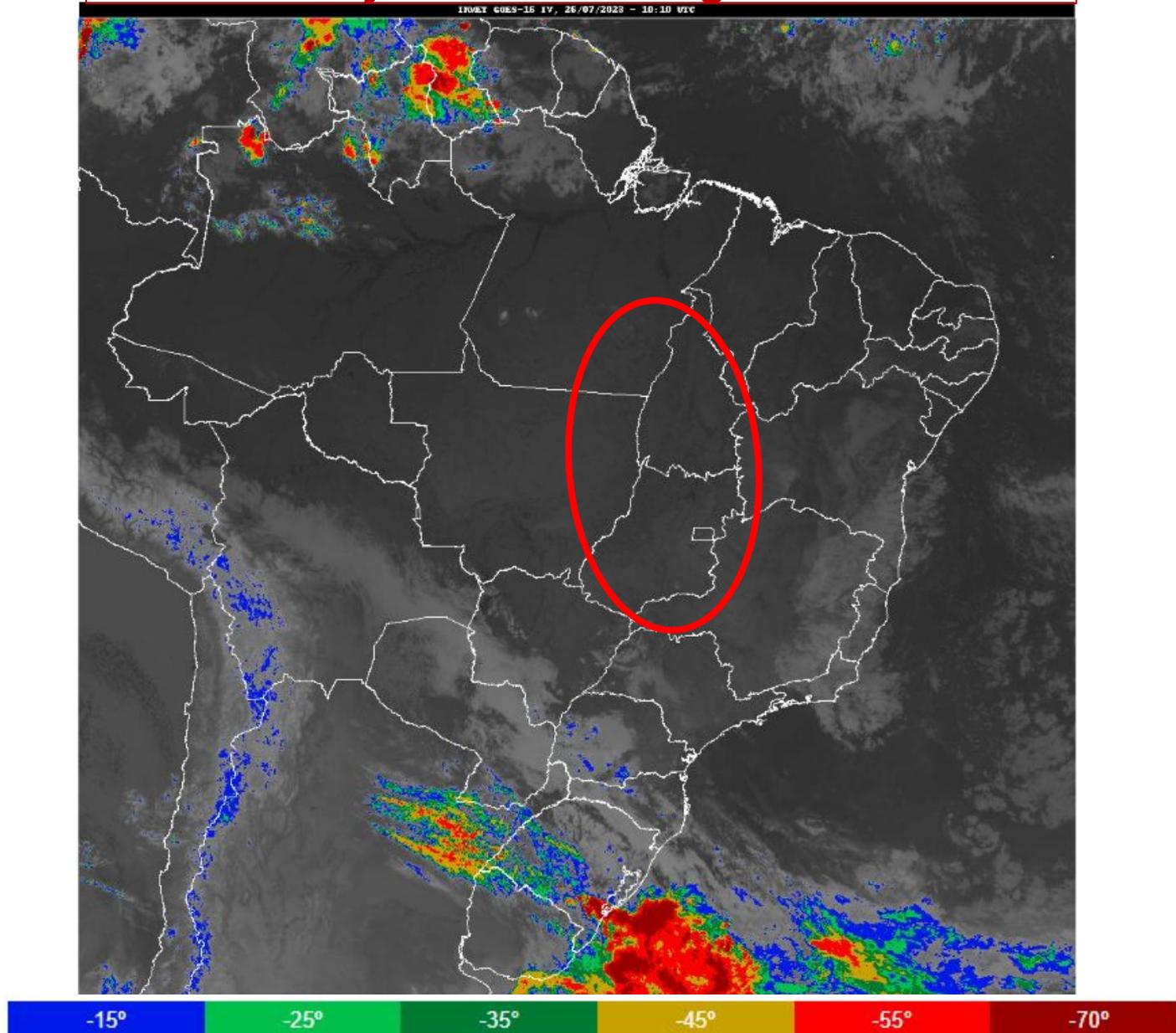
Precipitação Acumulada (mm) A.S.  
Período: 25/06/2023 a 25/07/2023



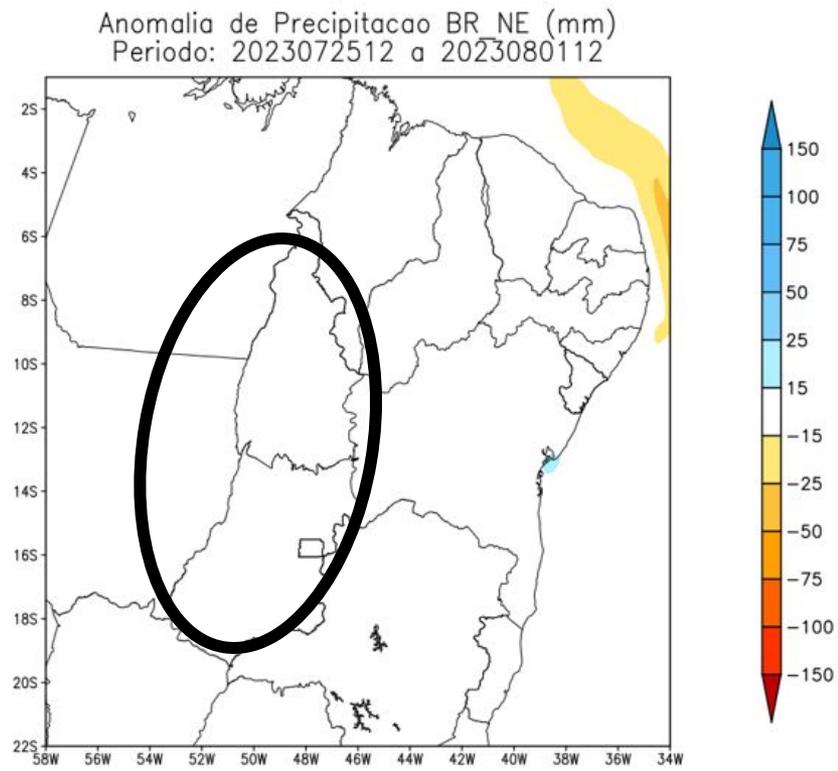
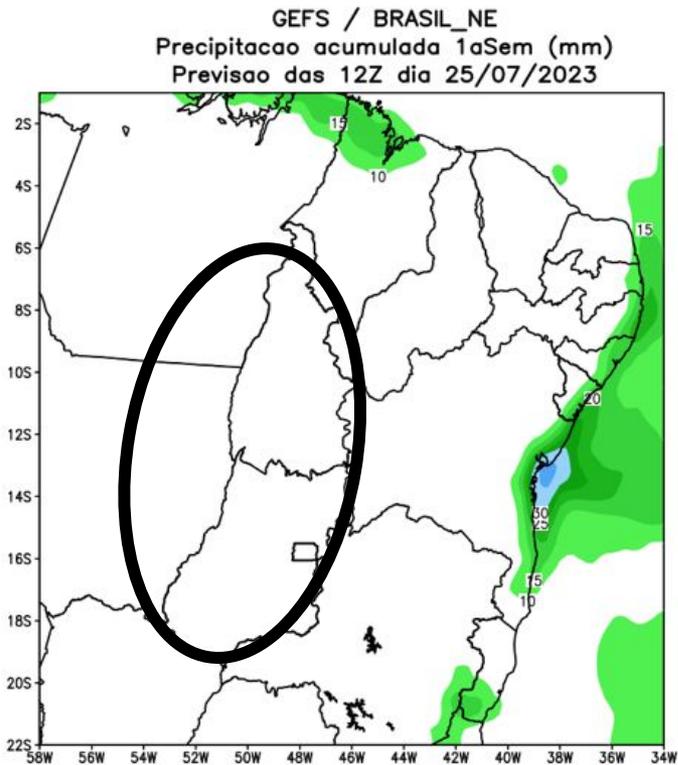
Anomalia de Precipitação (mm) A.S.  
Período: 25/06/2023 a 25/07/2023



# Situação meteorológica atual



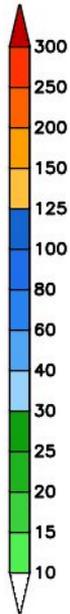
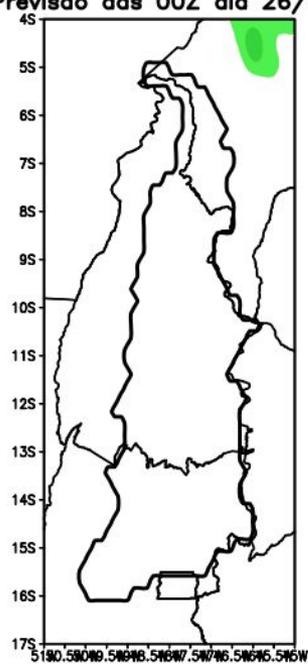
# Previsão de chuva próximos 7 dias



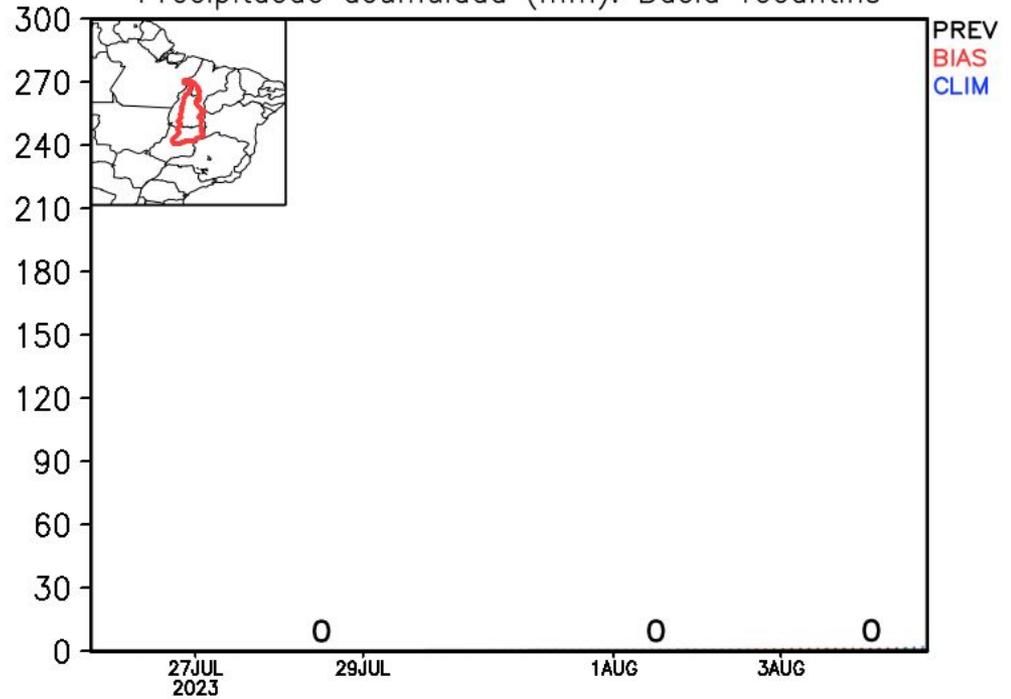
Fonte: GFS/NOAA

# Previsão Bacia Rio Tocantins

GEFS\_BC / Bacia Tocantins  
Prec. acumulada com correcao de vies em 7 dias (mm)  
Previsao das 00Z dia 26/07/2023

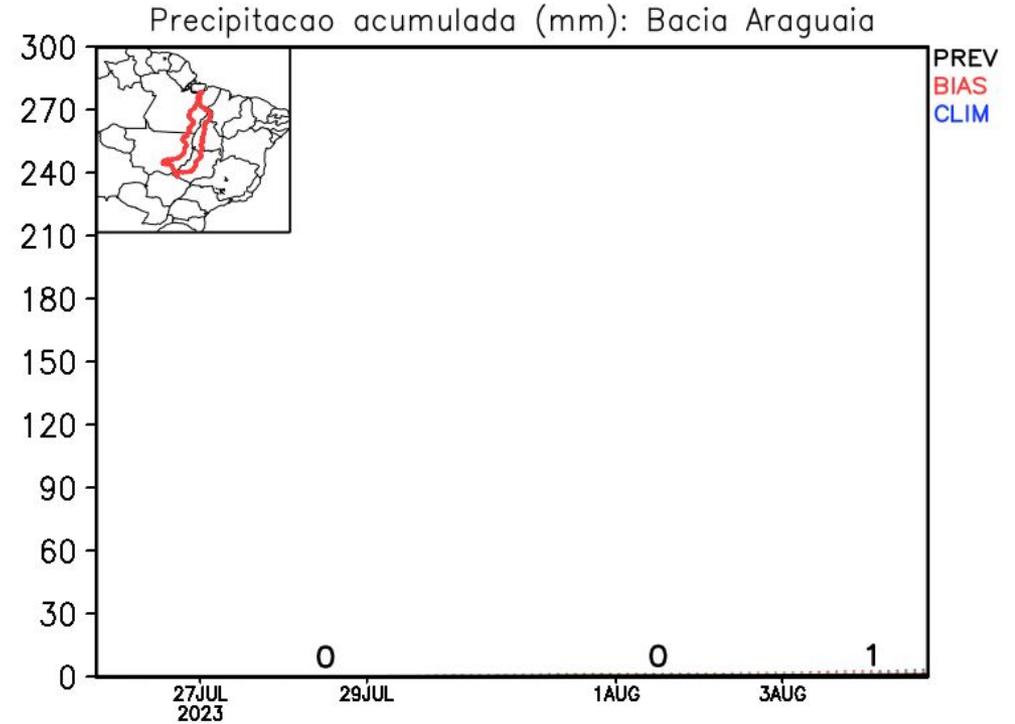
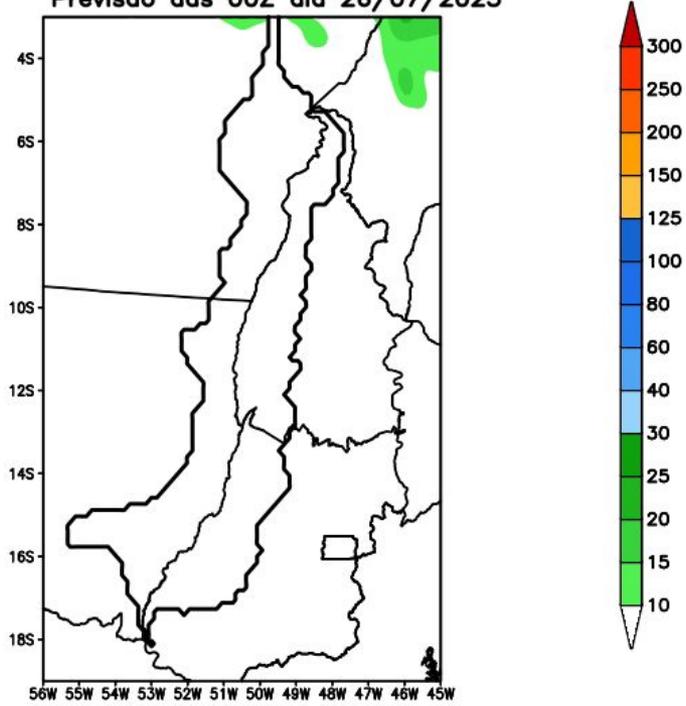


Precipitacao acumulada (mm): Bacia Tocantins



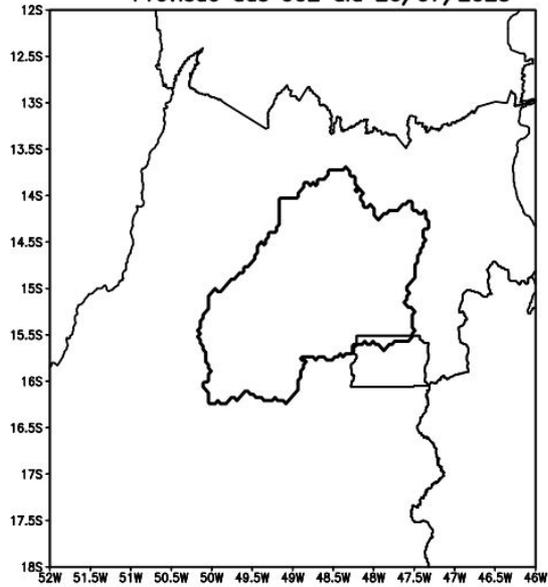
# Previsão Bacia Rio Araguaia

GEFS\_BC / Bacia do Rio Araguaia  
Prec. acumulada com correcao de vies em 7 dias (mm)  
Previsao das 00Z dia 26/07/2023

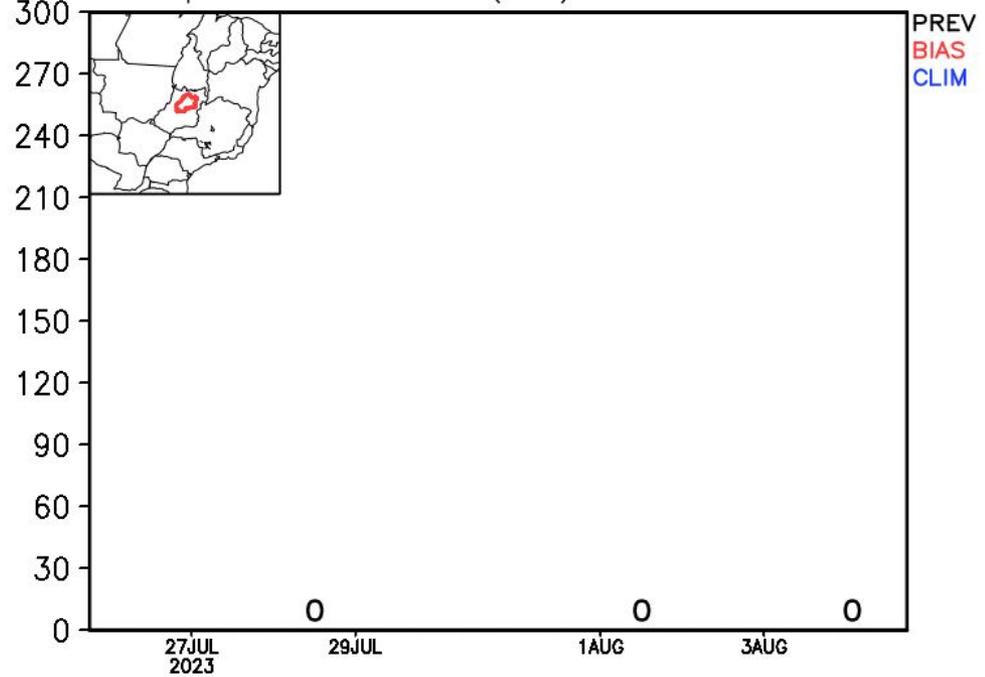


# Previsão Bacia Serra da Mesa

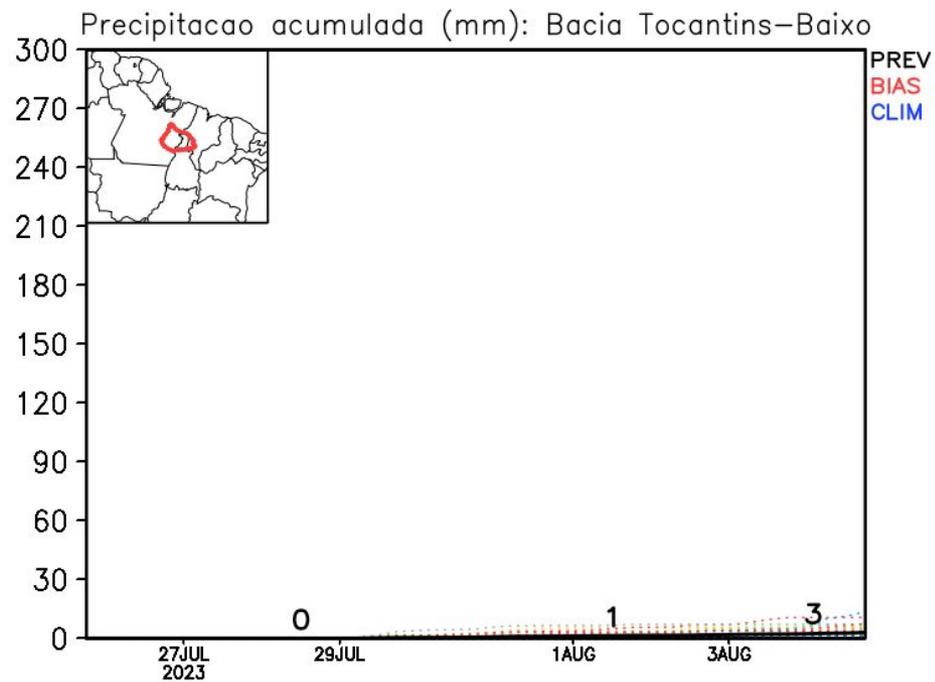
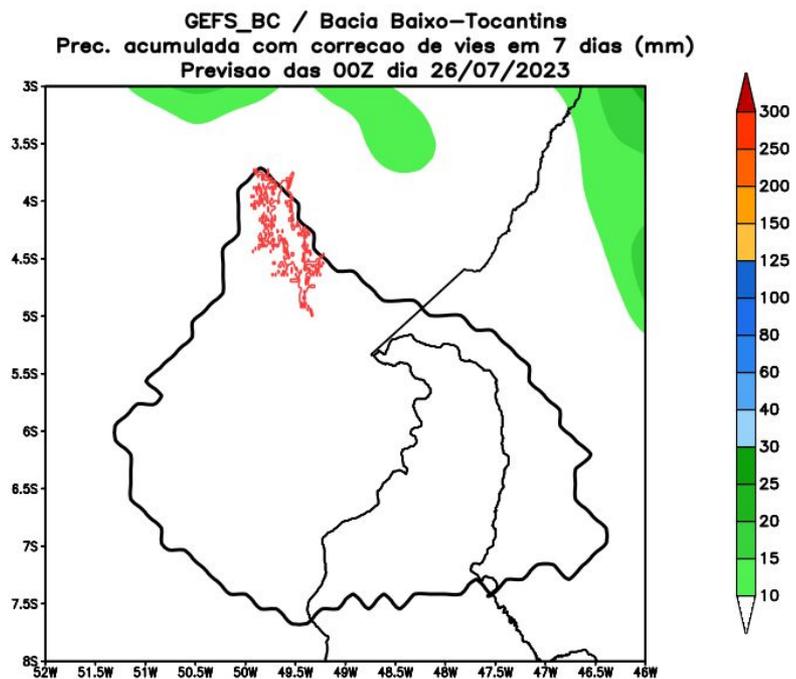
GEFS\_BC / Bacia Serra da Mesa  
Prec. acumulada com correcao de vies em 7 dias (mm)  
Previsao das 00Z dia 26/07/2023



Precipitacao acumulada (mm): Bacia SerradaMesa

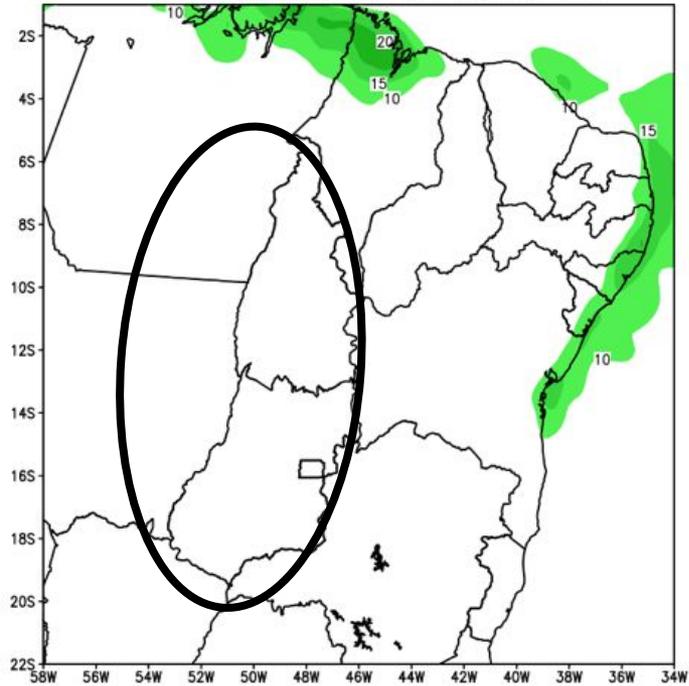


# Previsão Bacia Tocantins-Araguaia (Baixo)

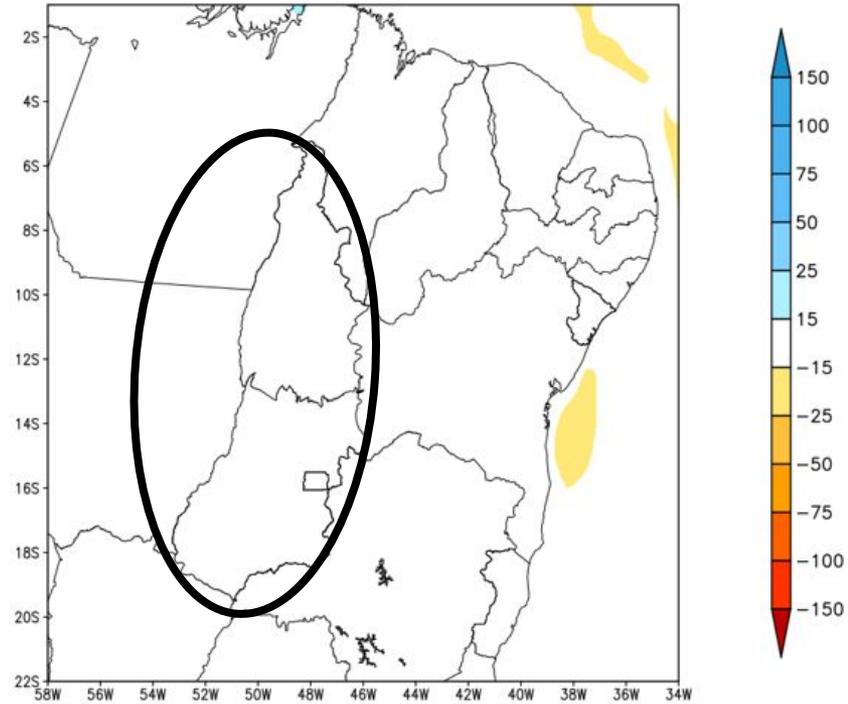


# Tendência para a 2a Semana

GEFS / BRASIL\_NE  
Precipitacao acumulada 2aSem (mm)  
Previsao das 12Z dia 25/07/2023

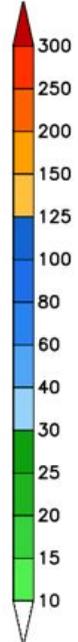
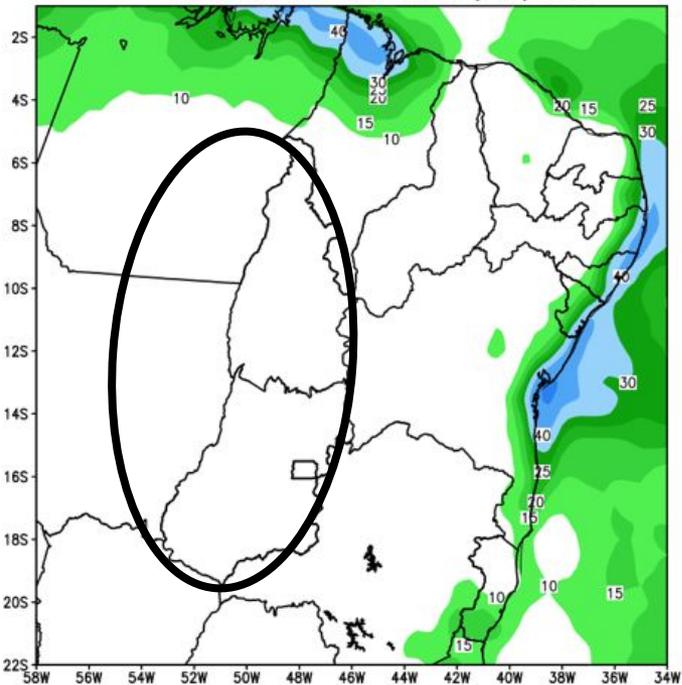


Anomalia de Precipitacao BR\_NE (mm)  
Periodo: 2023080212 a 2023080812

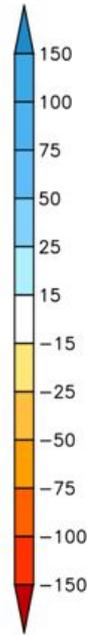
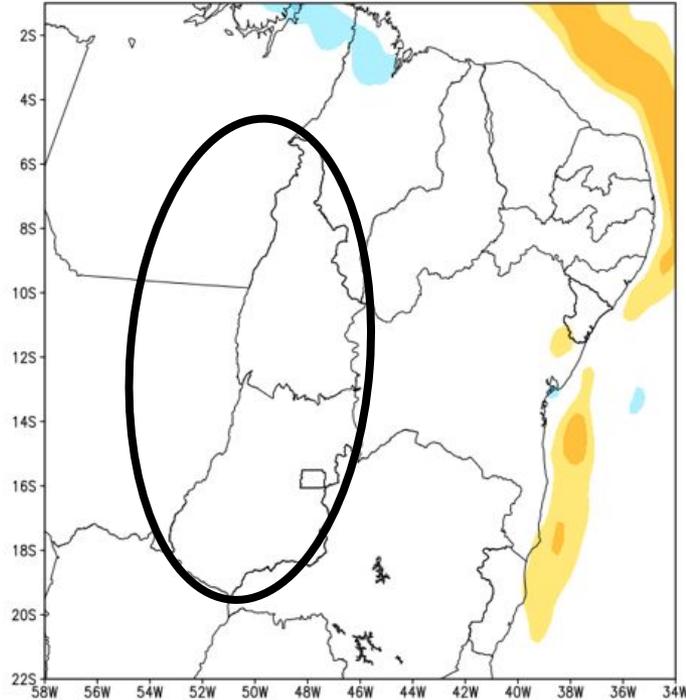


# Tendência para as próximas duas semanas

GEFS / BRASIL\_NE  
Precipitacao acumulada 14dias (mm)  
Previsao das 12Z dia 25/07/2023

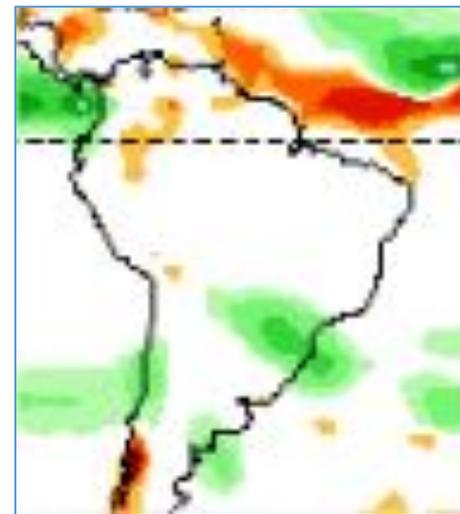
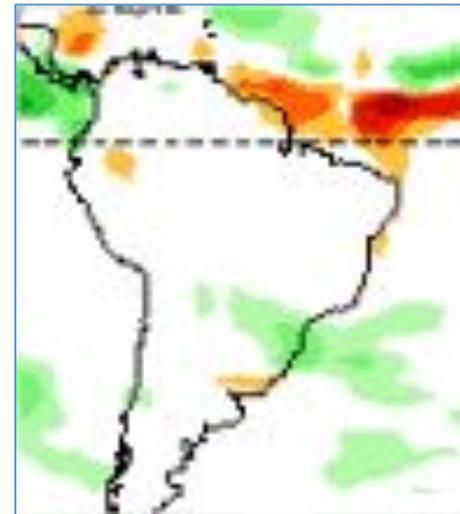
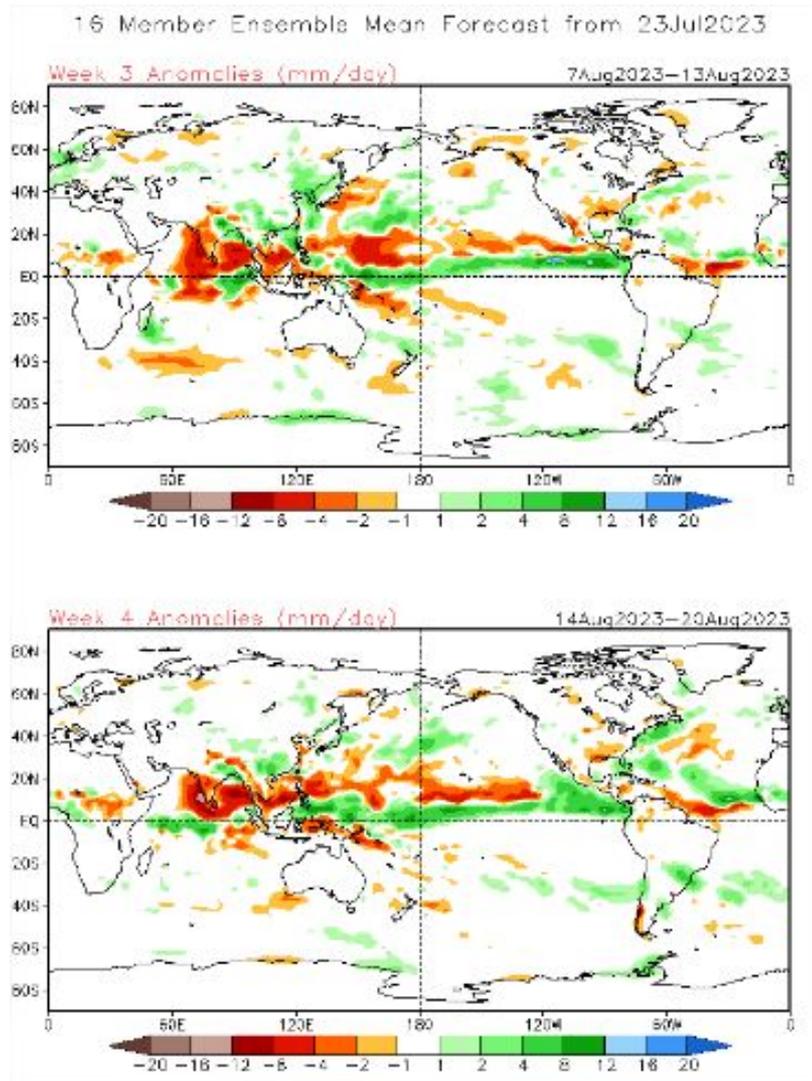


Anomalia de Precipitacao BR\_NE (mm)  
Periodo: 2023072512 a 2023080812



Fonte: GFS/NOAA

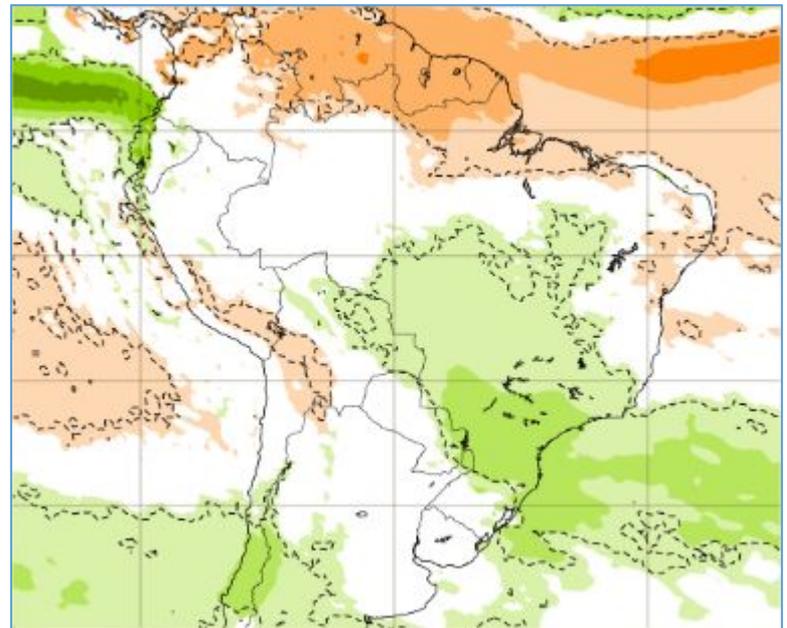
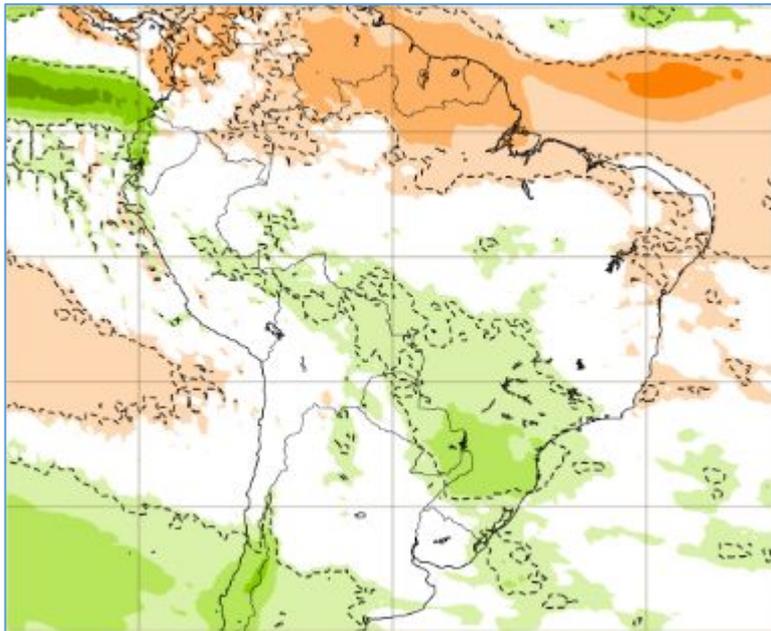
# Tendência 3a e 4a semanas



# Tendência para 3ª e 4ª semanas

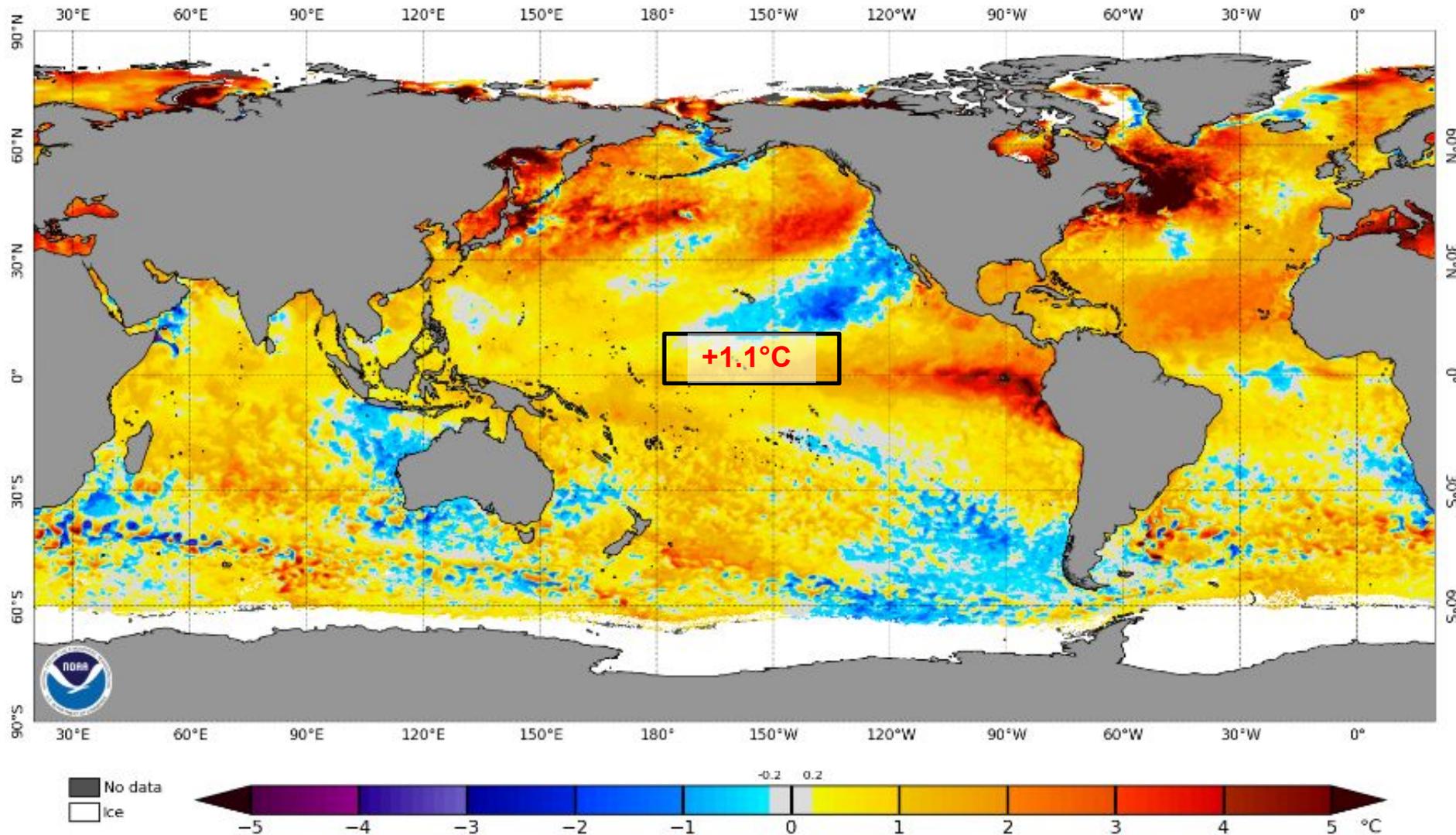
07-14/08

14-21/08



# Status Atual: **El Niño**

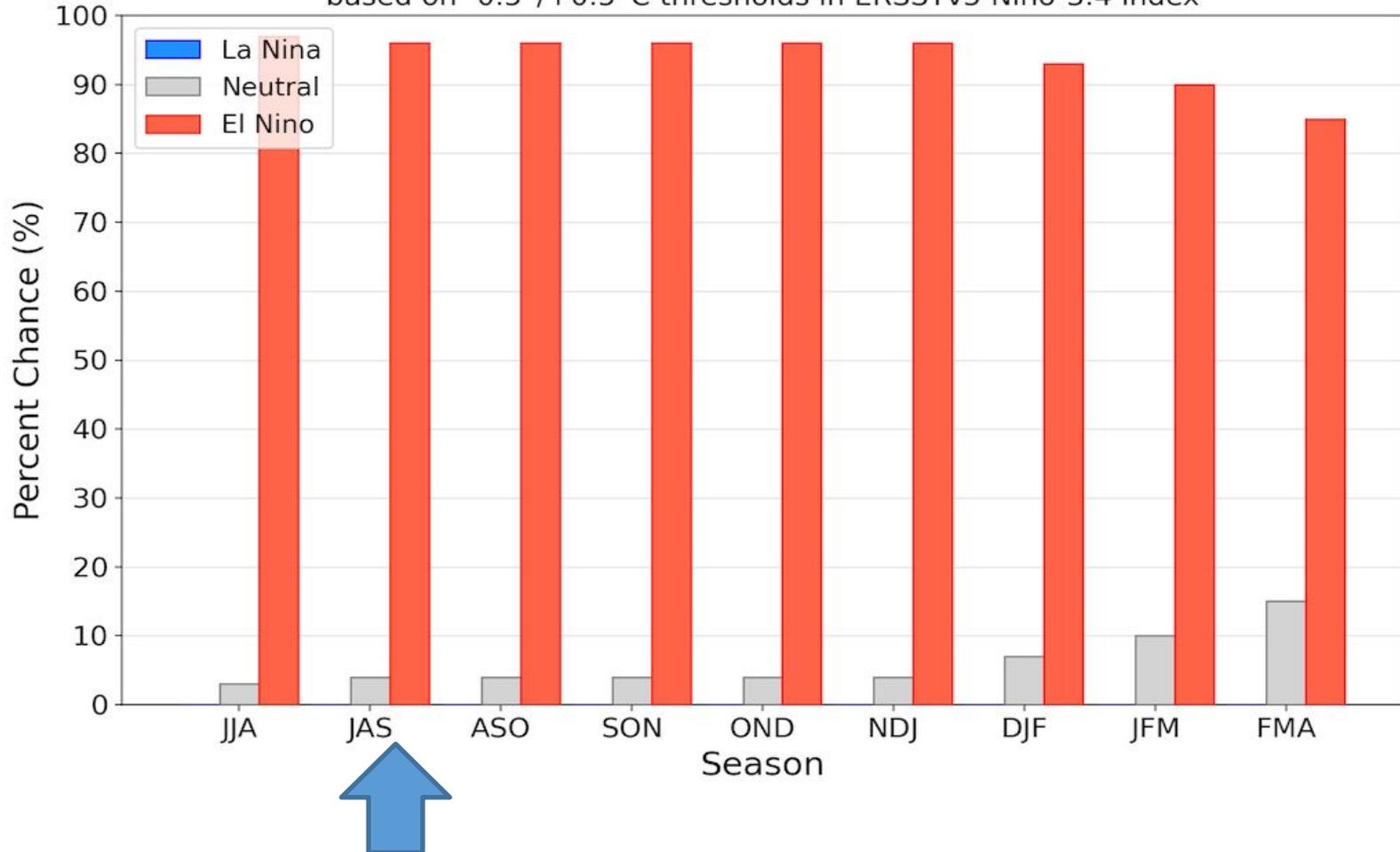
NOAA Coral Reef Watch Daily 5km SST Anomalies (v3.1) 23 Jul 2023



# Previsão do “ENSO”

## Official NOAA CPC ENSO Probabilities (issued July 2023)

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

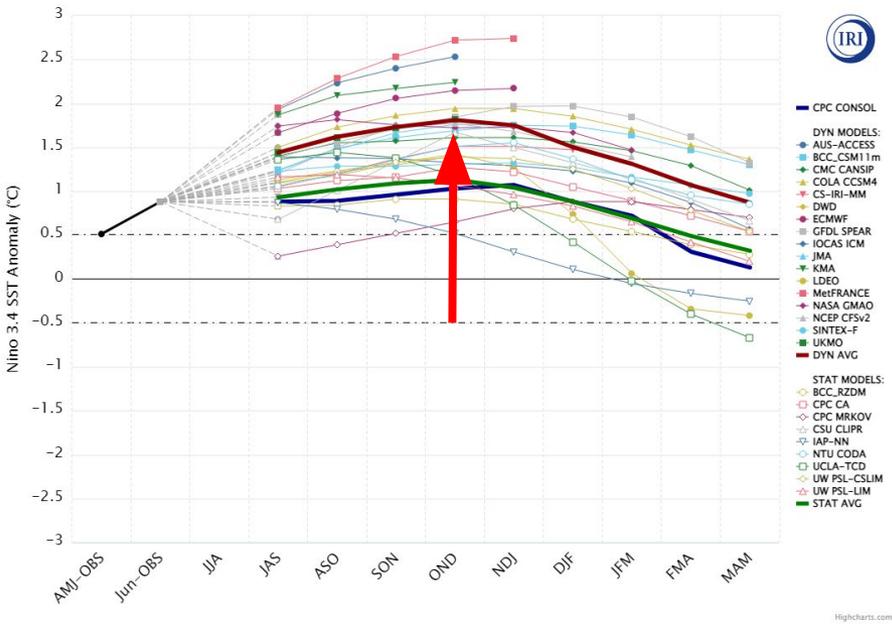


Status Atual: **El Niño**

FONTE: NOAA

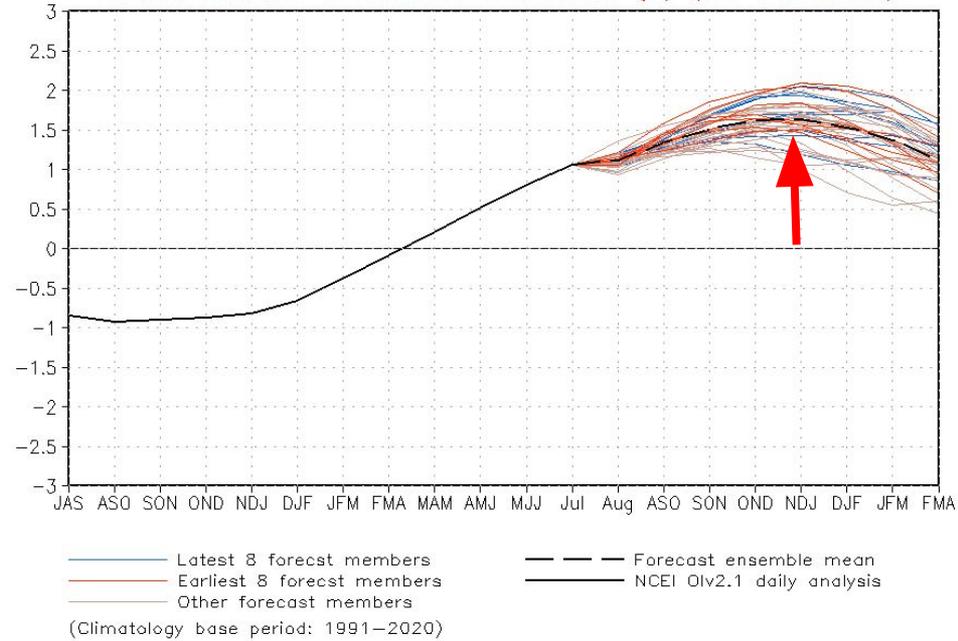
# Previsão do “ENSO”

Model Predictions of ENSO from Jul 2023



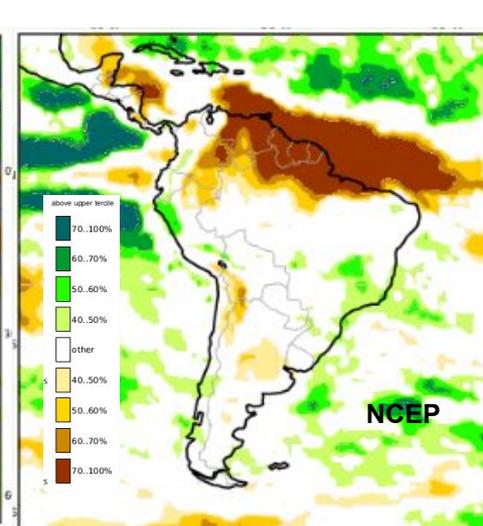
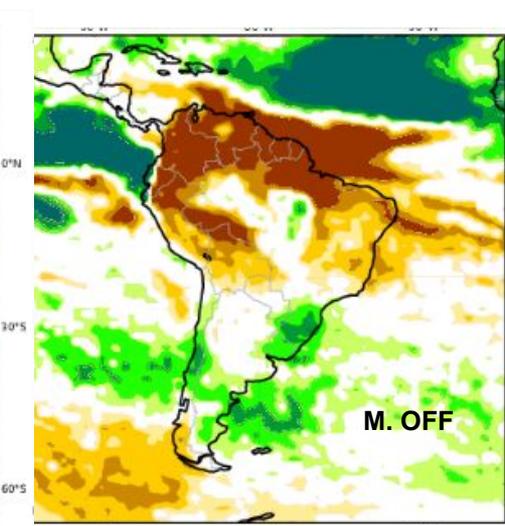
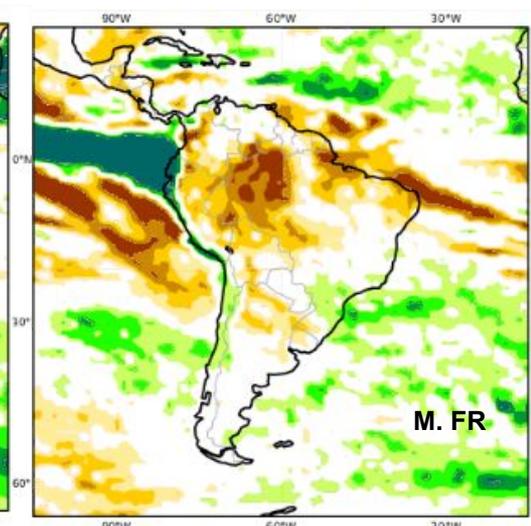
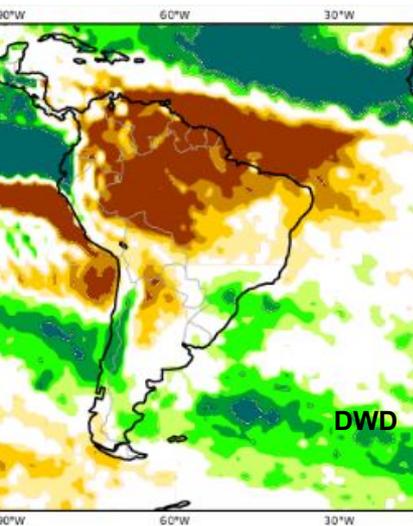
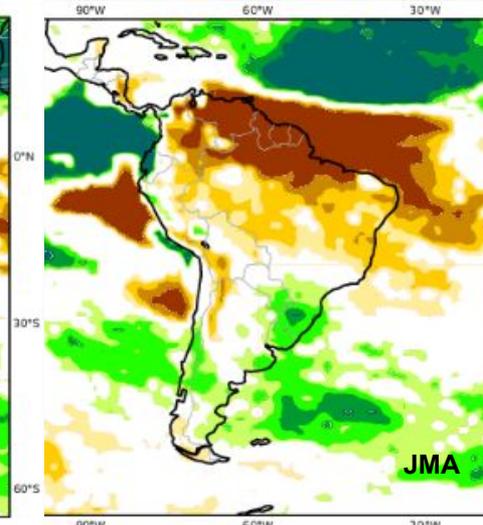
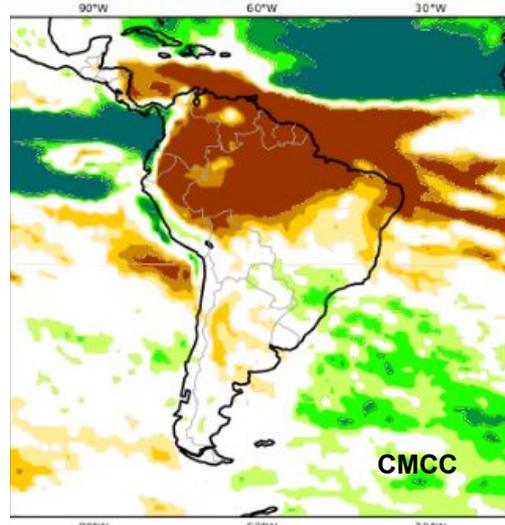
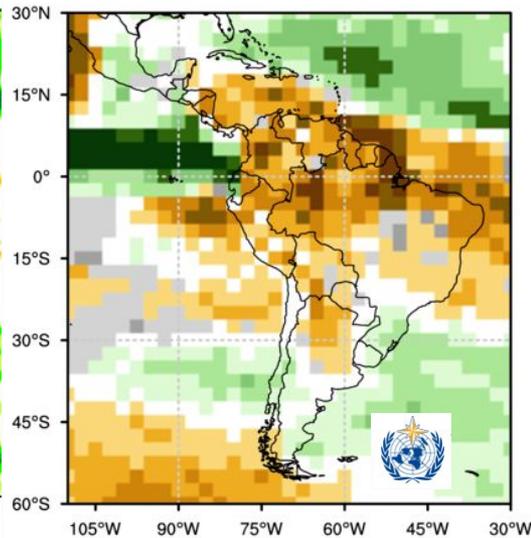
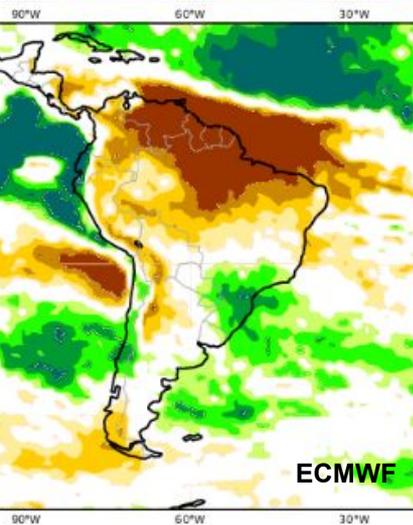
Atualizado: 19 de julho 2023

CFSv2 forecast Niño3.4 SST anomalies (K) (PDF corrected)



Atualizado: 24 de julho 2023

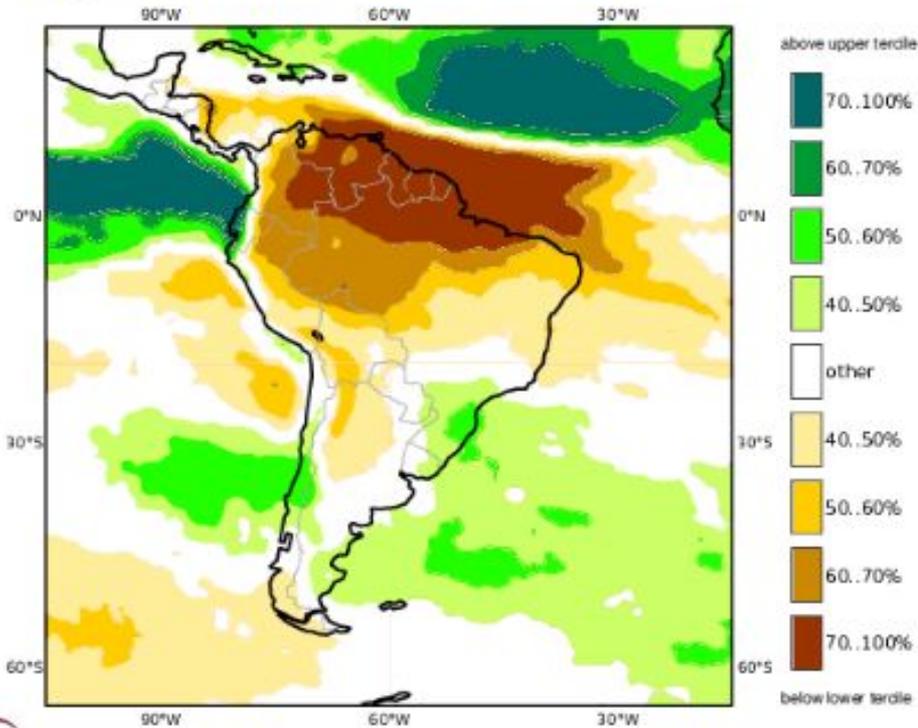
# Previsão sazonal de Chuva ASO



# Previsão Multi Modelo ASO

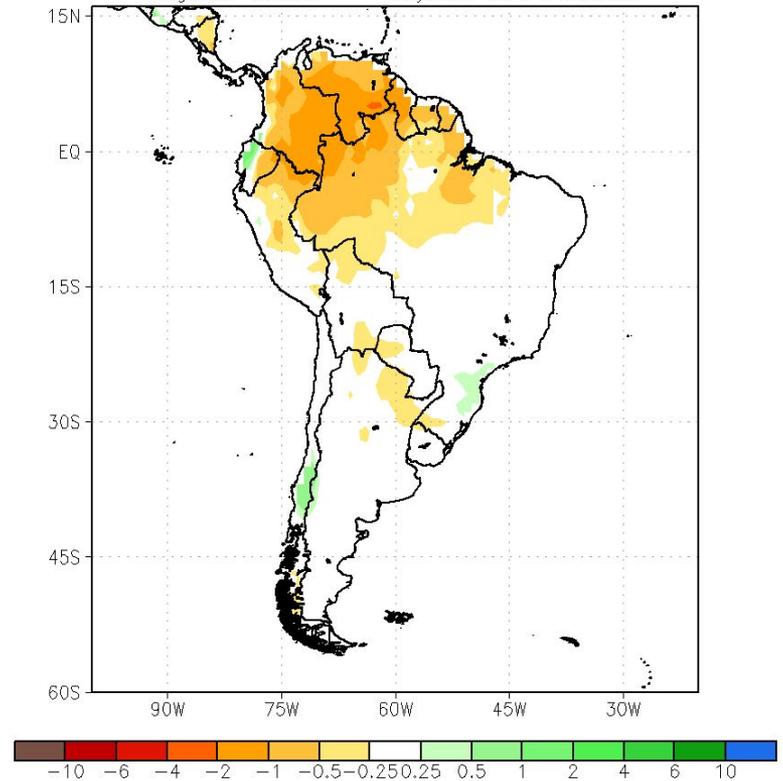
C3S multi-system seasonal forecast  
Prob(most likely category of precipitation)  
Nominal forecast start: 01/07/23  
Unweighted mean

ASO 2023

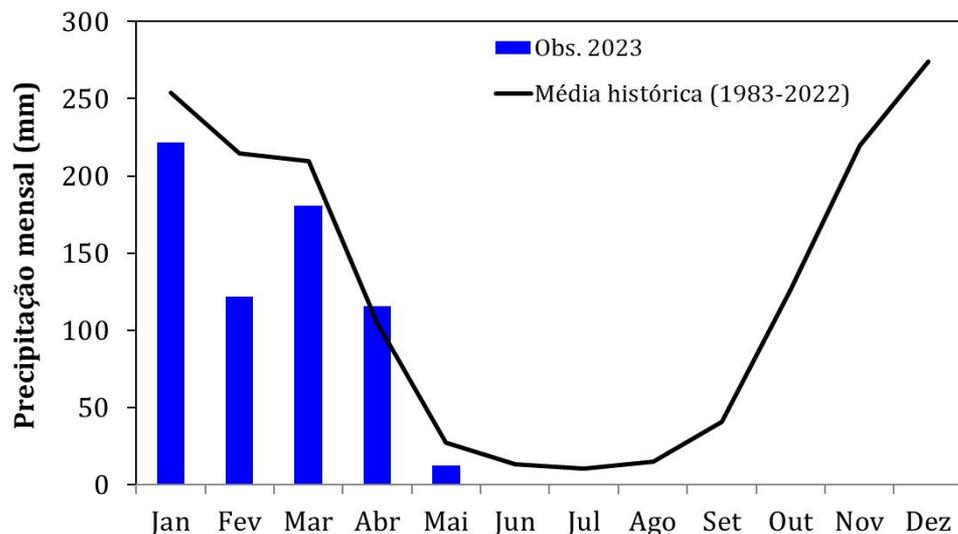


NMME Precipitation Anomalies (mm/day)

Aug2023–Oct2023 July2023 initial conditions



# Monitoramento UHE Serra da Mesa



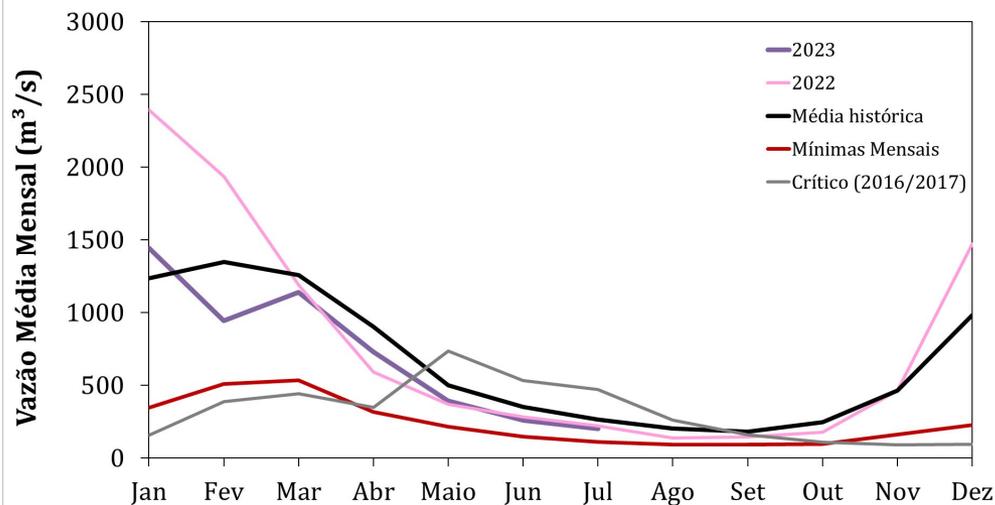
## Precipitação

**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**  
 2022: 54 mm (51% da média histórica)  
 2023\*: 13 mm (12% da média histórica)

**Jul/2023\*: 0 mm (Média histórica = 10 mm)**

\*Até 23/07/2023



## Vazão

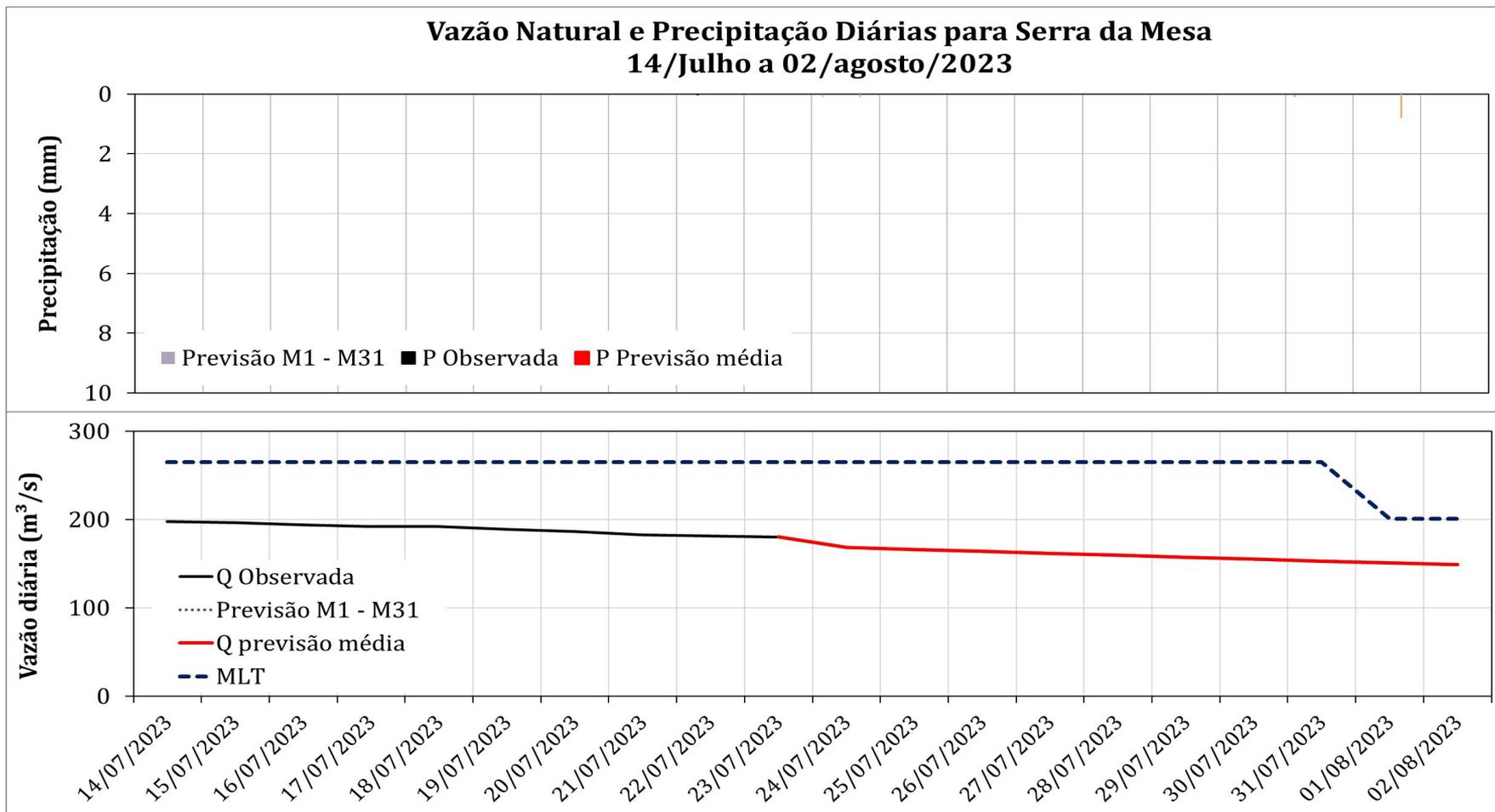
**Estação Chuvosa - Out a Abr – 918 m³/s**  
 2021/2022: 1184 m³/s (129% da MLT)  
 2022/2023: 909 m³/s (99% da MLT)

**Estação Seca - Maio a Set – 300 m³/s**  
 2022: 231 m³/s (77% da MLT)  
 2023\*: 283 m³/s (94% da MLT)

**Julho/2023\*: 199 m³/s (75% da MLT)**  
**23/Jul/2023: 180 m³/s (67% da MLT)**

\*Até 23/07/2023

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



Dados **observados de precipitação** (barras pretas) para o período 14 a 23/07/23 e **previsão** para o período de 24/07 a 02/08/23.

Dados **observados de vazão** (linha preta) para o período 14 a 23/07/23 e **previsão** para o período de 24/07 a 02/08/23.

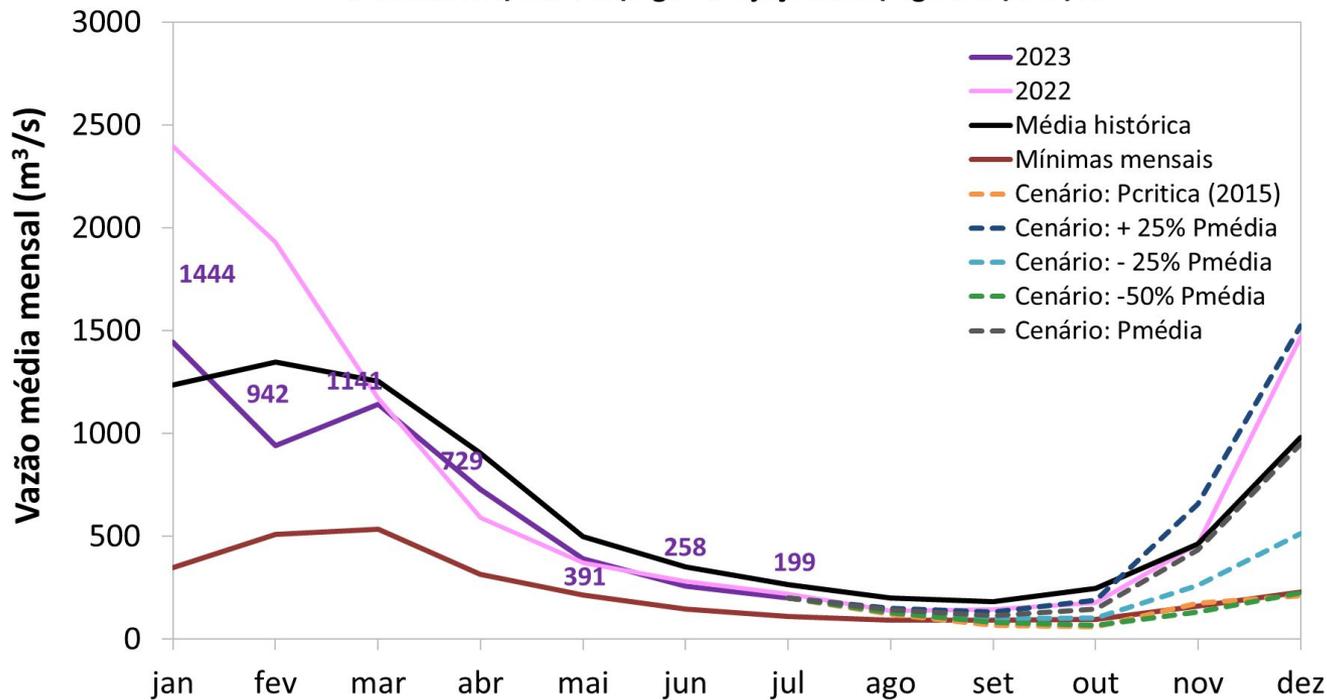
As barras coloridas correspondem às previsões da chuva para os 31 membros GEFS/NOAA e à média destes membros.

As linhas coloridas representam os membros de previsão de vazão.

**Previsão média para os próximos 10 dias: 159 m³/s**

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

Previsão: 24/ Jul a 02/Ago - Projeções: 03/Ago a 31/Dez/23



**Agosto - Dezembro**  
**MLT: 415 m³/s**

Vazão	%
<b>531 m³/s</b>	<b>MLT 128%</b>
<b>357 m³/s</b>	<b>86%</b>
<b>222 m³/s</b>	<b>54%</b>
<b>126 m³/s</b>	<b>30%</b>