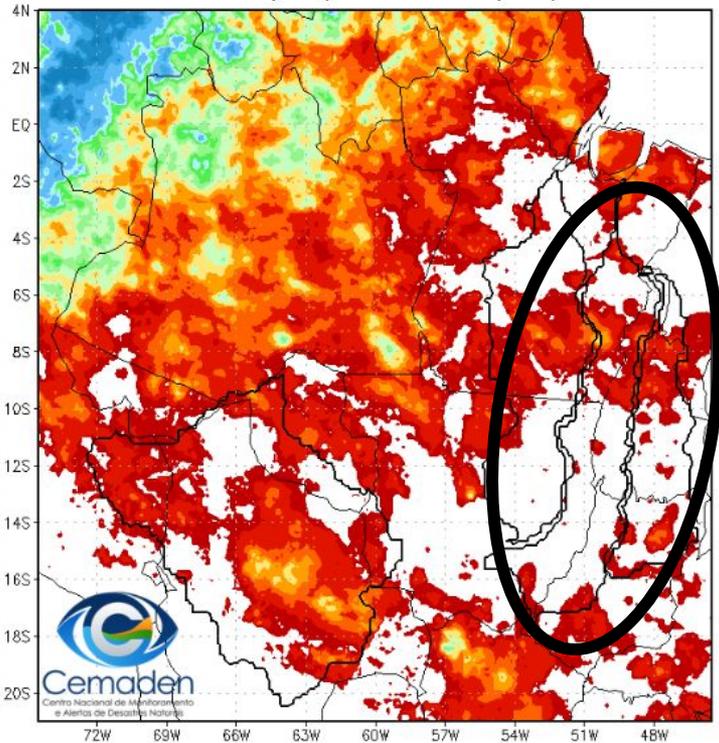


Monitoramento e Previsões para a Bacia do rio Tocantins

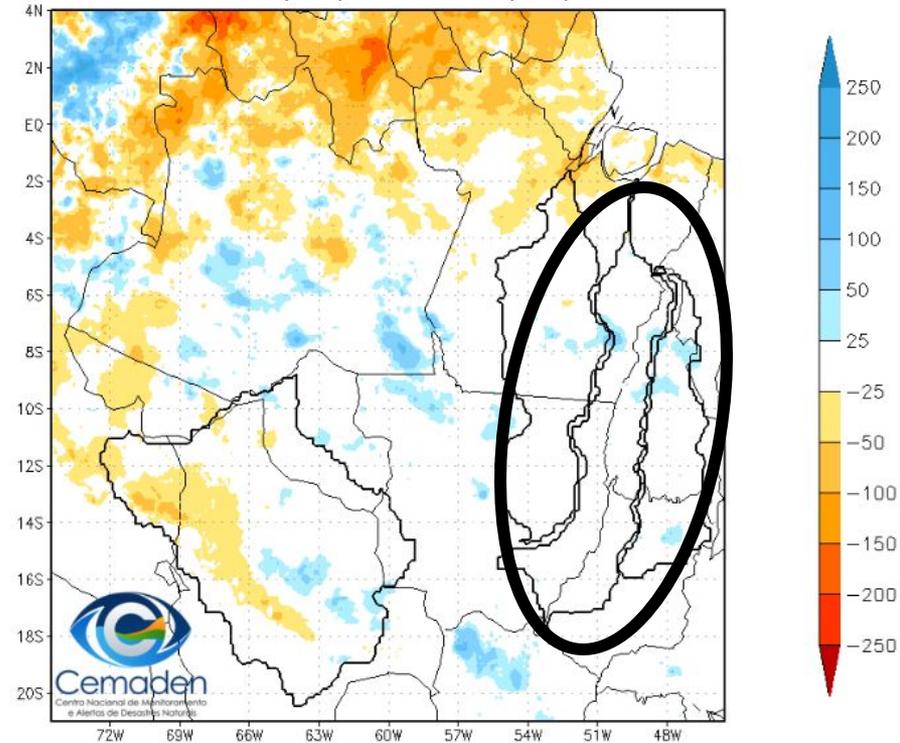


Precipitação acumulada nos últimos 30 dias

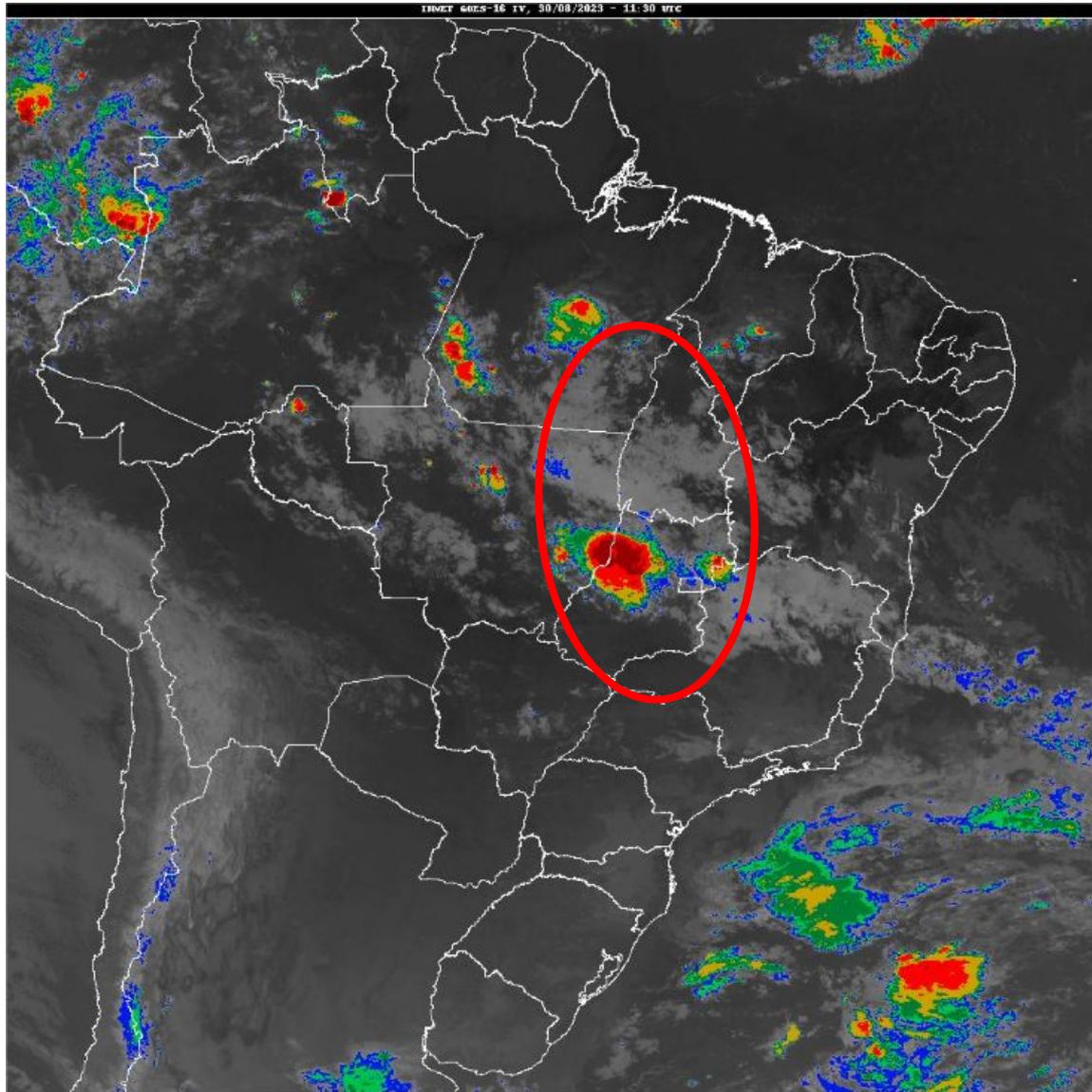
Precipitação Acumulada (mm) A.S.
Período: 30/07/2023 a 29/08/2023



Anomalia de Precipitação (mm) A.S.
Período: 30/07/2023 a 29/08/2023



Situação meteorológica atual



-15°

-25°

-35°

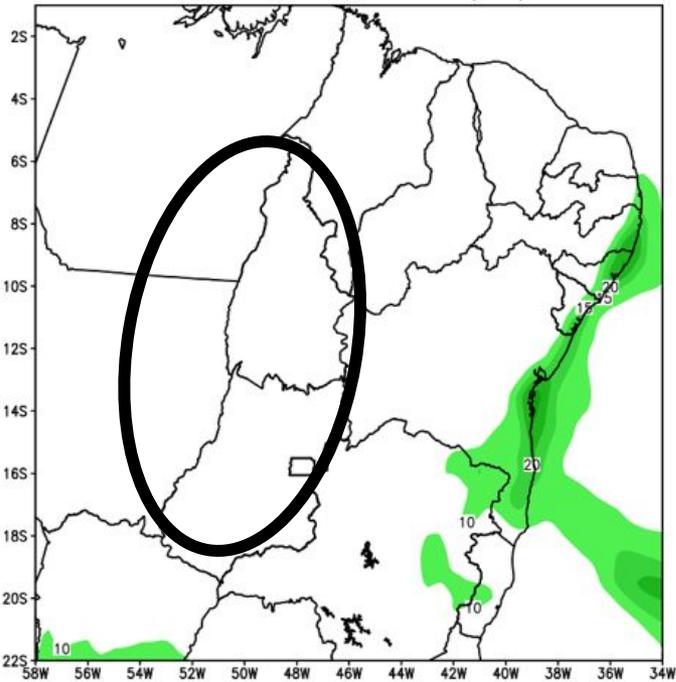
-45°

-55°

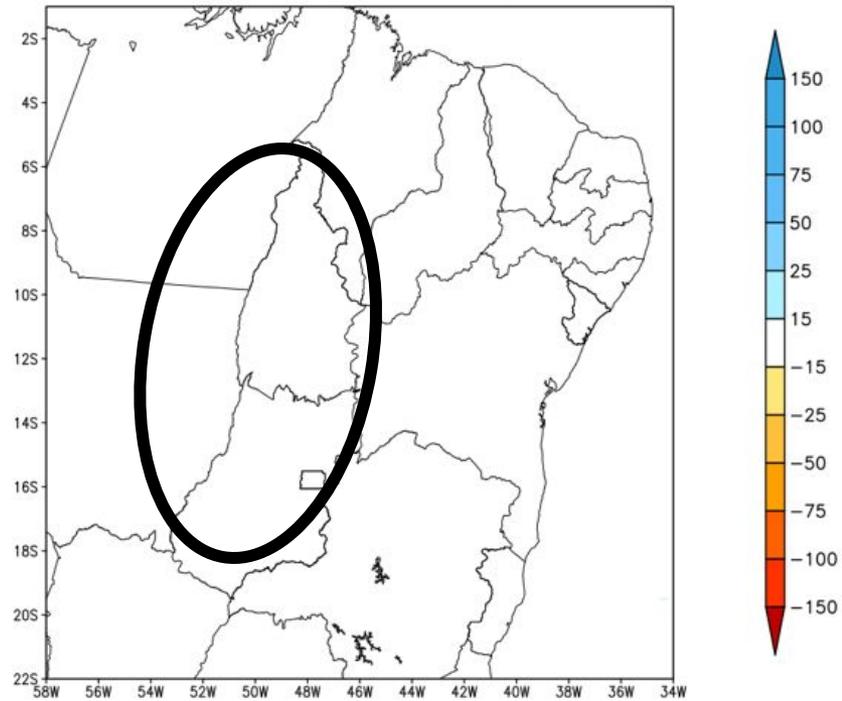
-70°

Previsão de chuva próximos 7 dias

GEFS / BRASIL_NE
Precipitacao acumulada 1aSem (mm)
Previsao das 00Z dia 30/08/2023



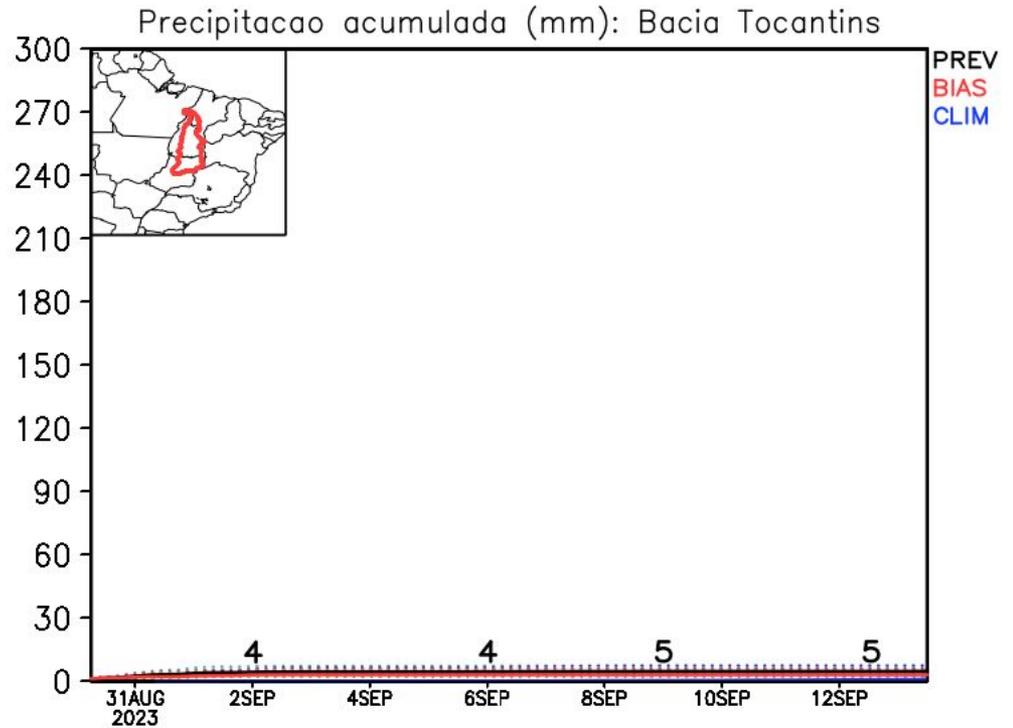
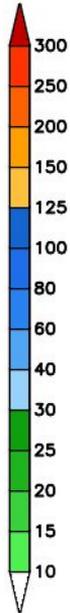
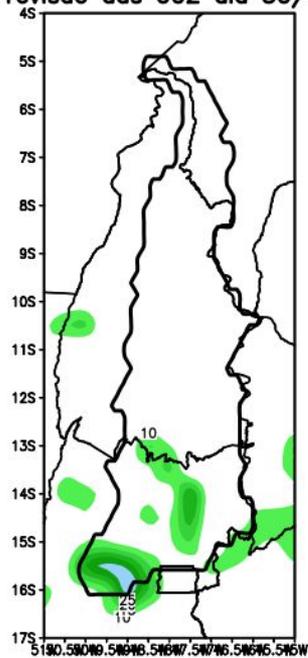
Anomalia de Precipitacao BR_NE (mm)
Periodo: 2023083000 a 2023090600



Fonte: GFS/NOAA

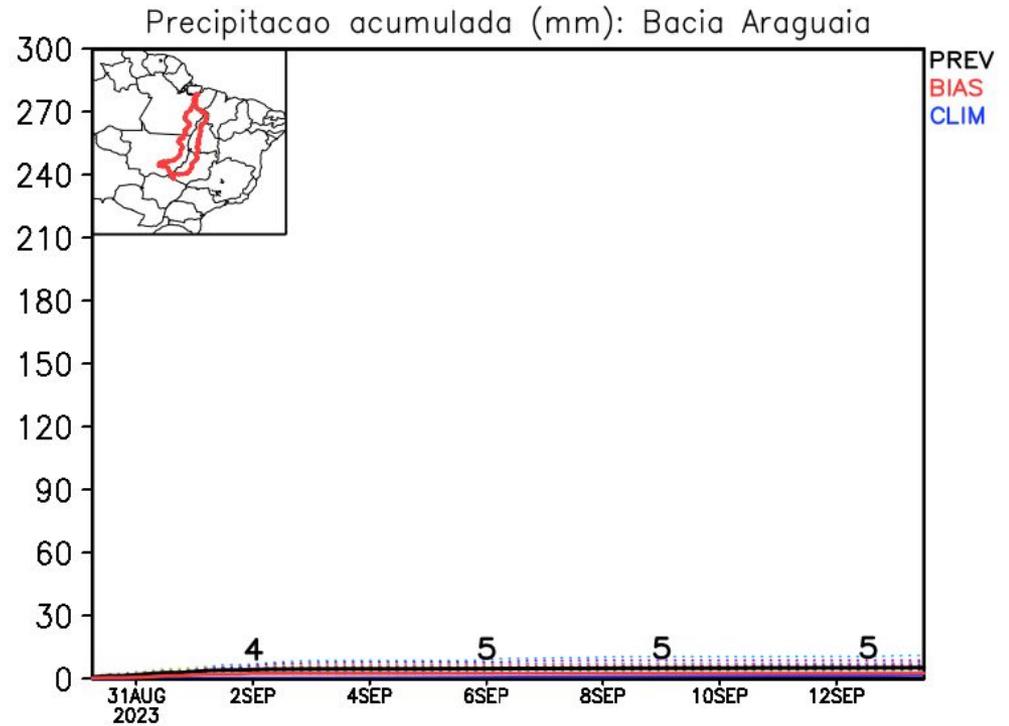
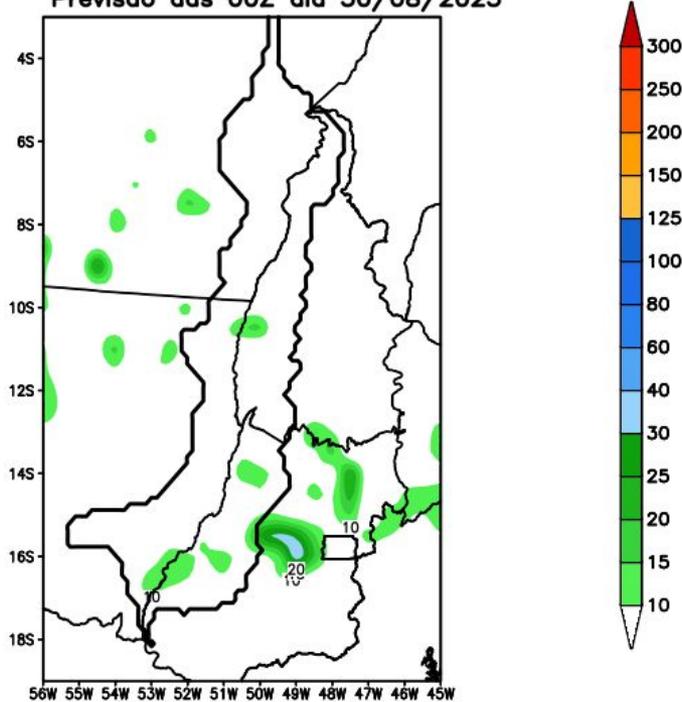
Previsão Bacia Rio Tocantins

GEFS_BC / Bacia Tocantins
Prec. acumulada com correcao de vies em 7 dias (mm)
Previsao das 00Z dia 30/08/2023



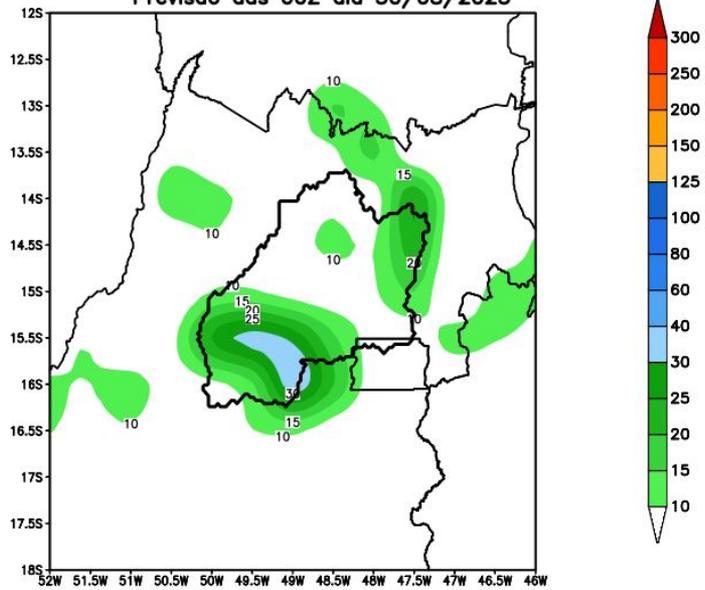
Previsão Bacia Rio Araguaia

GEFS_BC / Bacia do Rio Araguaia
Prec. acumulada com correcao de vies em 7 dias (mm)
Previsao das 00Z dia 30/08/2023

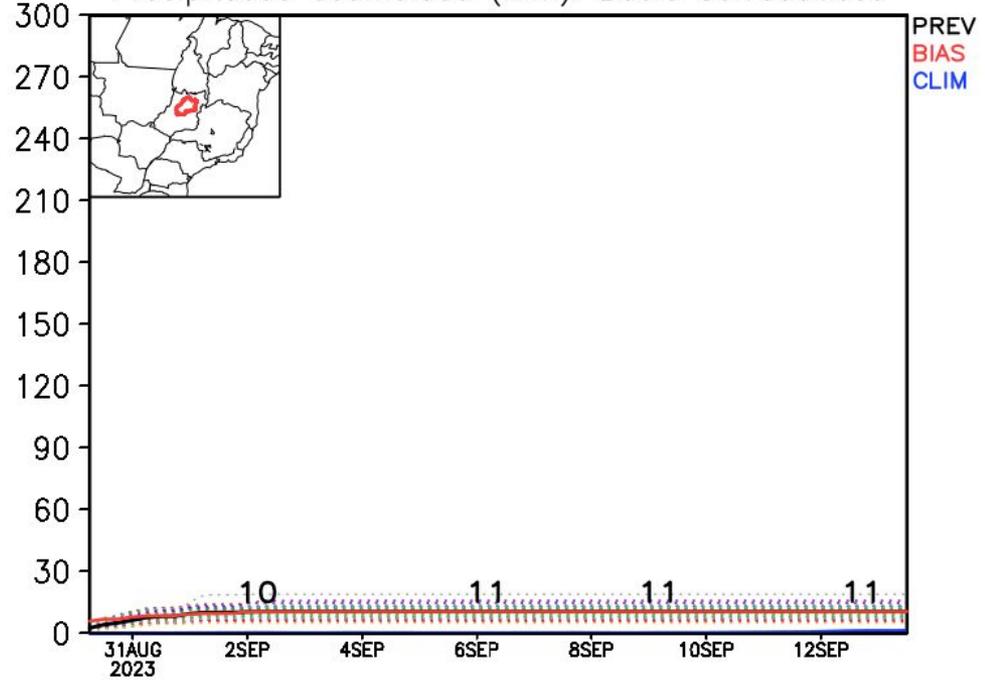


Previsão Bacia Serra da Mesa

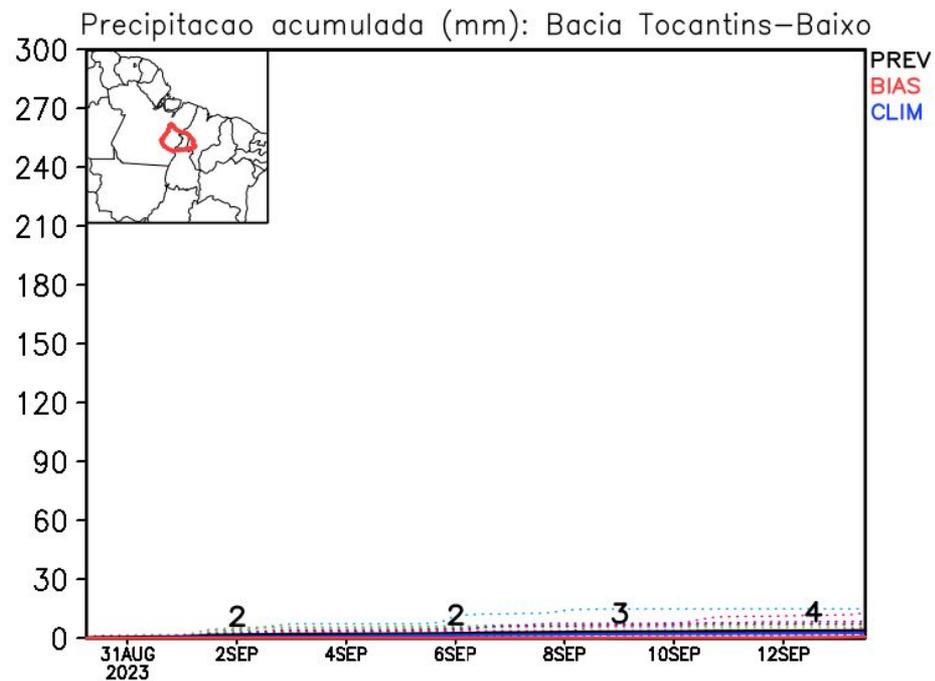
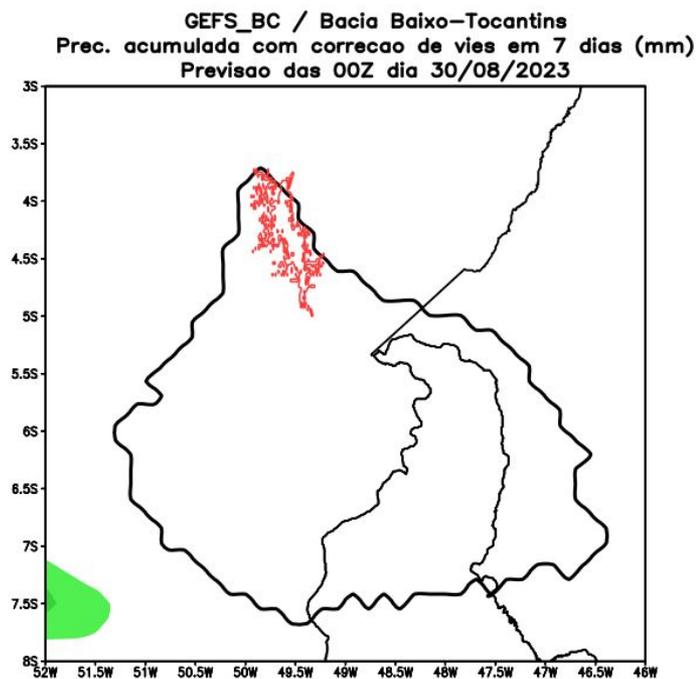
GEFS_BC / Bacia Serra da Mesa
Prec. acumulada com correcao de vies em 7 dias (mm)
Previsao das 00Z dia 30/08/2023



Precipitacao acumulada (mm): Bacia SerradaMesa

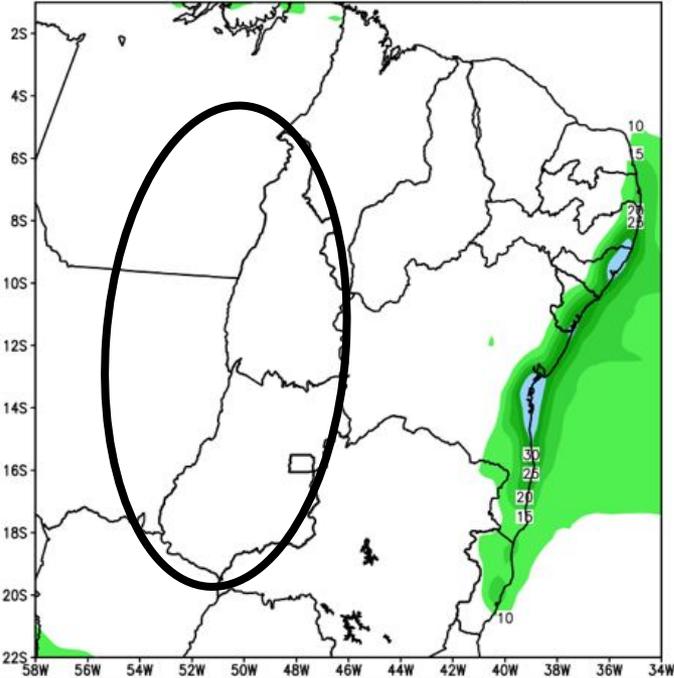


Previsão Bacia Tocantins-Araguaia (Baixo)

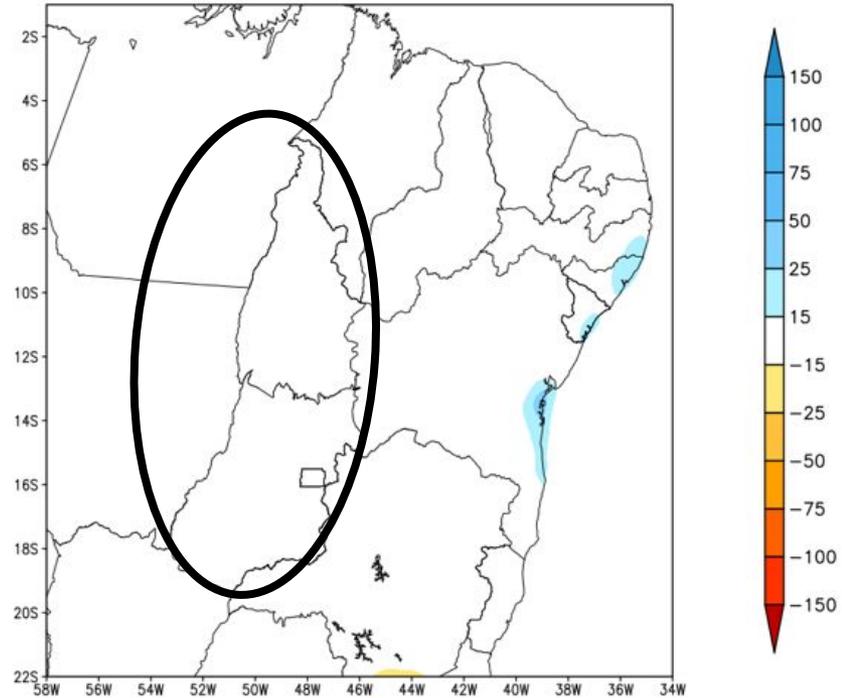


Tendência para a 2a Semana

GEFS / BRASIL_NE
Precipitacao acumulada 2aSem (mm)
Previsao das 00Z dia 30/08/2023

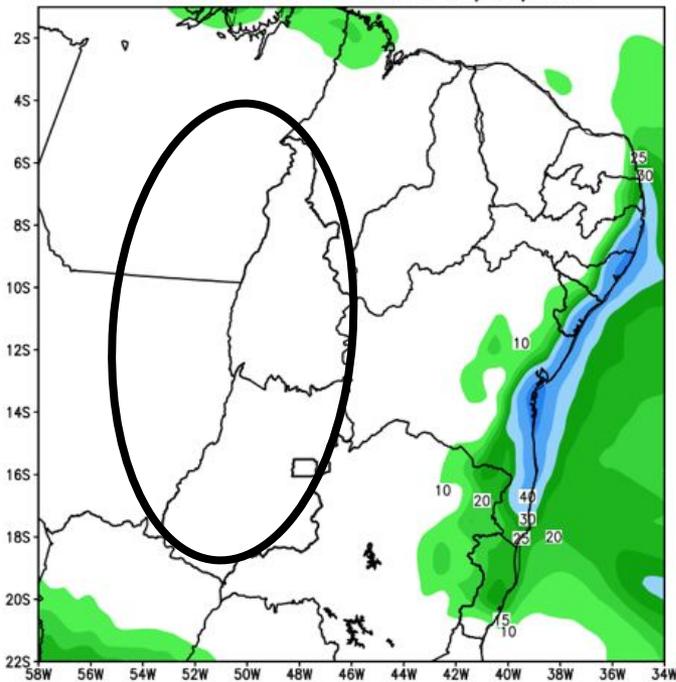


Anomalia de Precipitacao BR NE (mm)
Periodo: 2023090700 a 2023091300

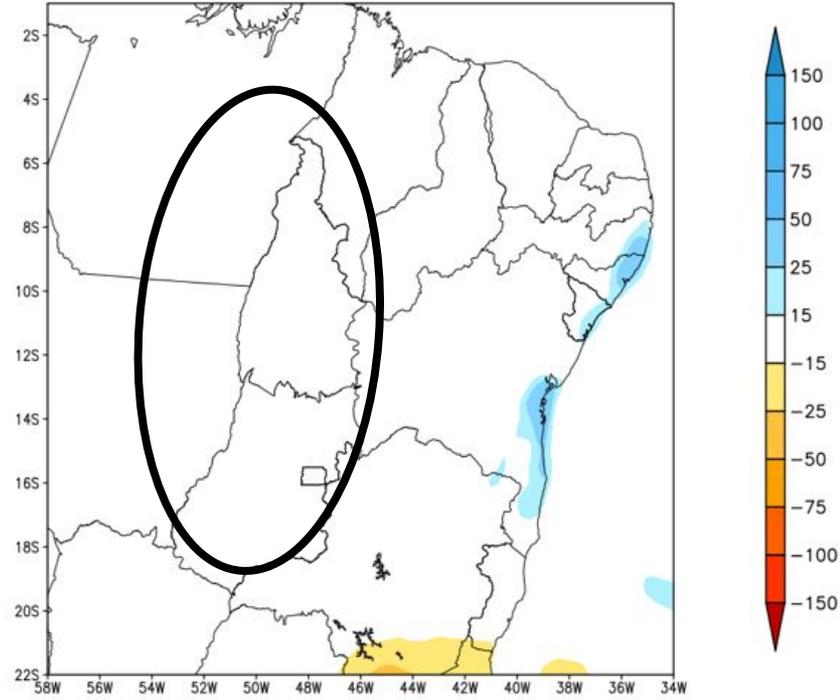


Tendência para as próximas duas semanas

GEFS / BRASIL_NE
Precipitacao acumulada 14 dias (mm)
Previsao das 00Z dia 30/08/2023



Anomalia de Precipitacao BR_NE (mm)
Periodo: 2023083000 a 2023091300

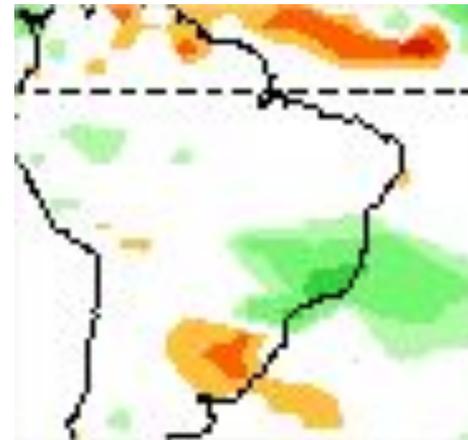
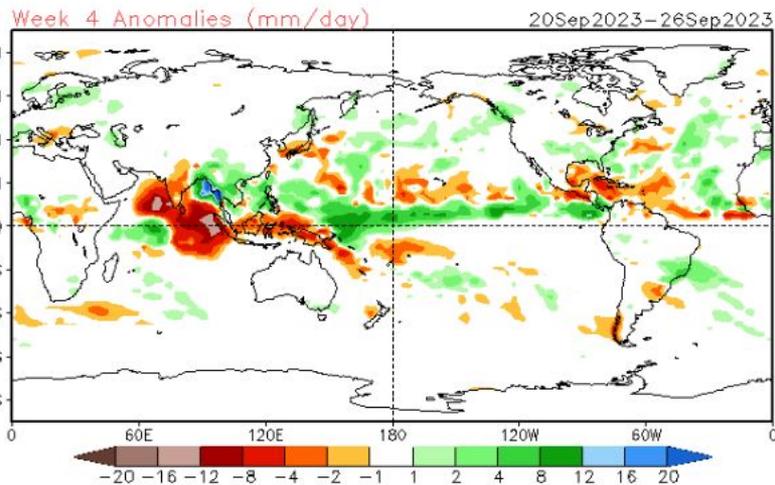
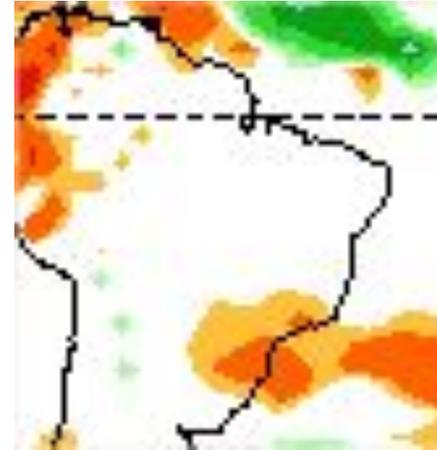
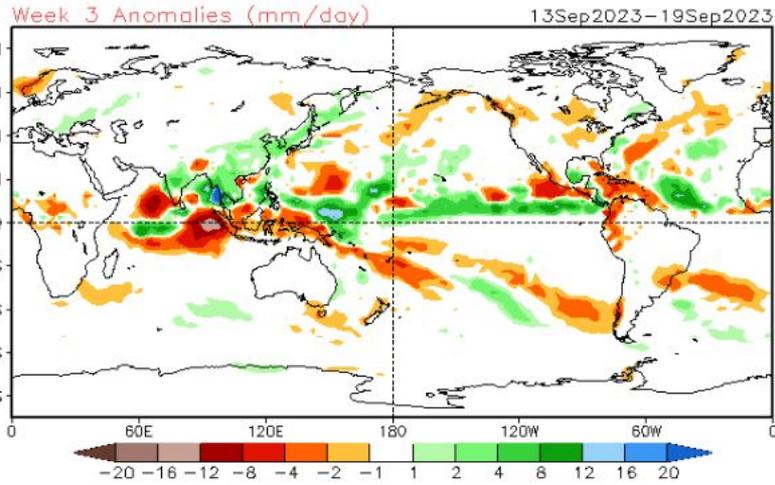


Fonte: GFS/NOAA

Tendência 3a e 4a semanas

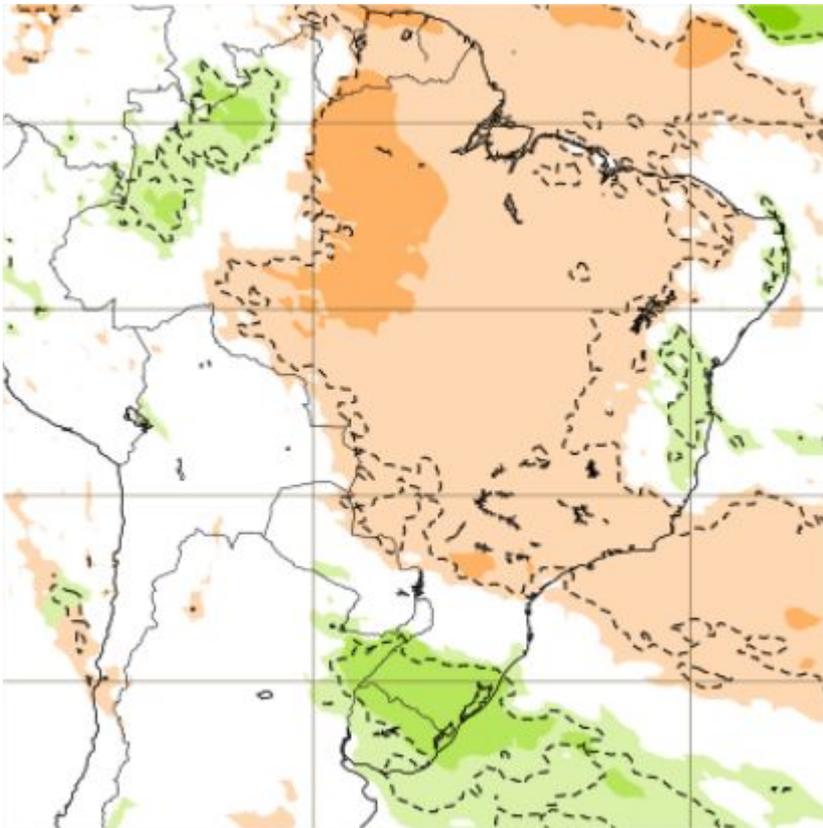
CFSv2 Weeks 3 & 4 Precipitation

16 Member Ensemble Mean Forecast from 29Aug2023

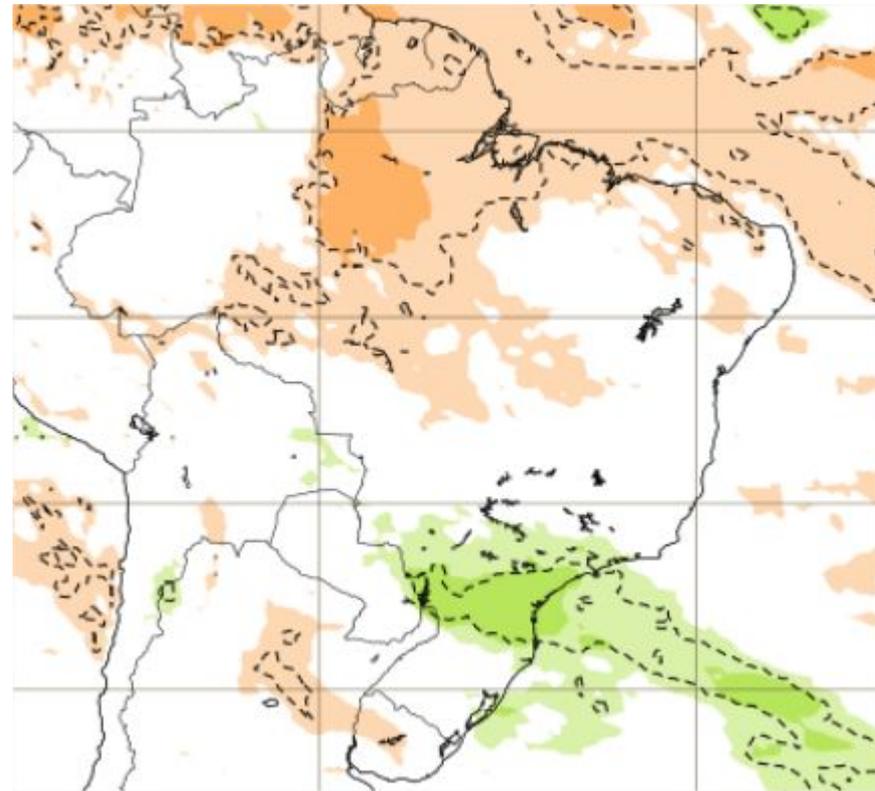


Tendência para 3ª e 4ª semanas

11-17 SET

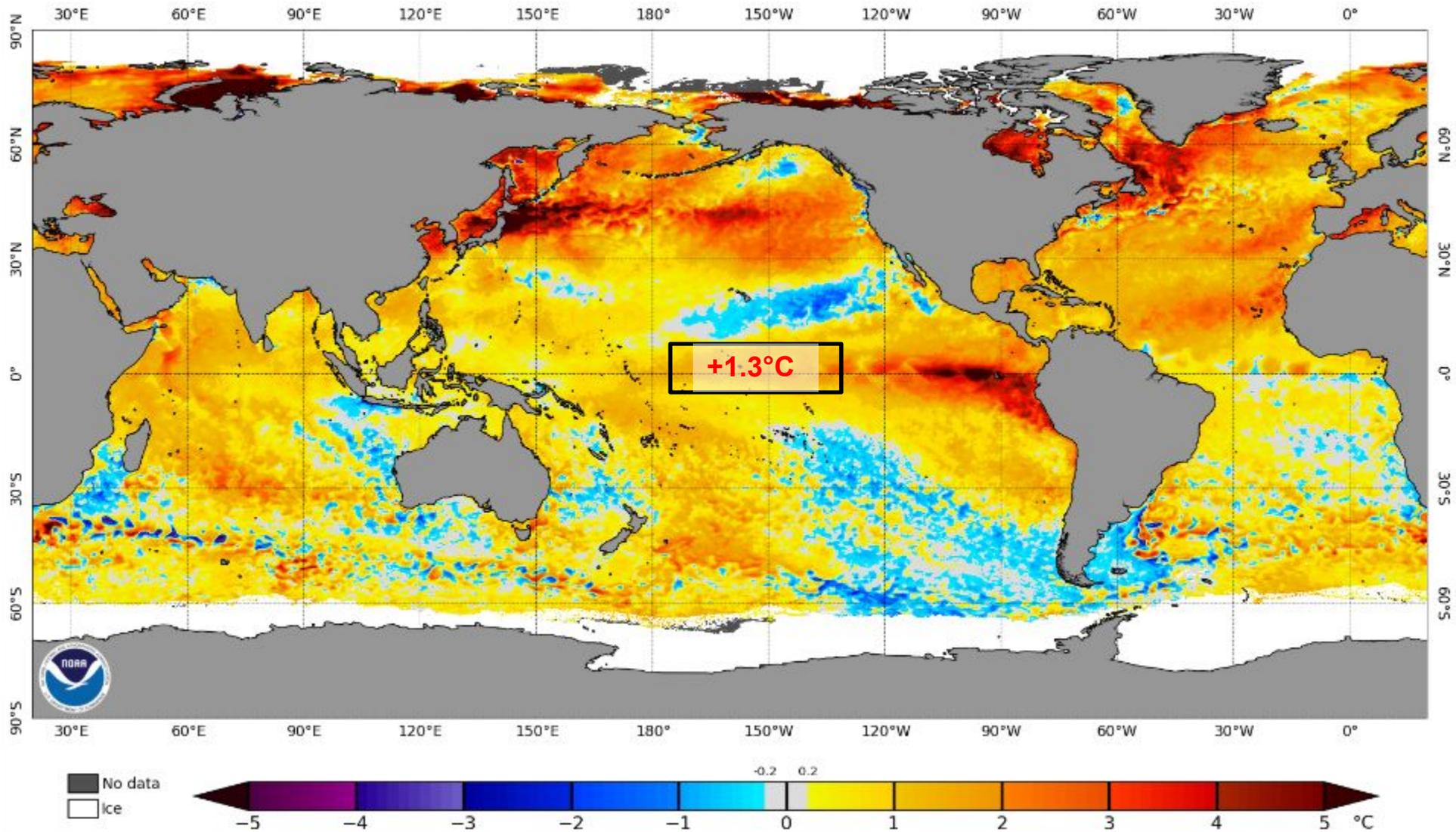


18-24 SET

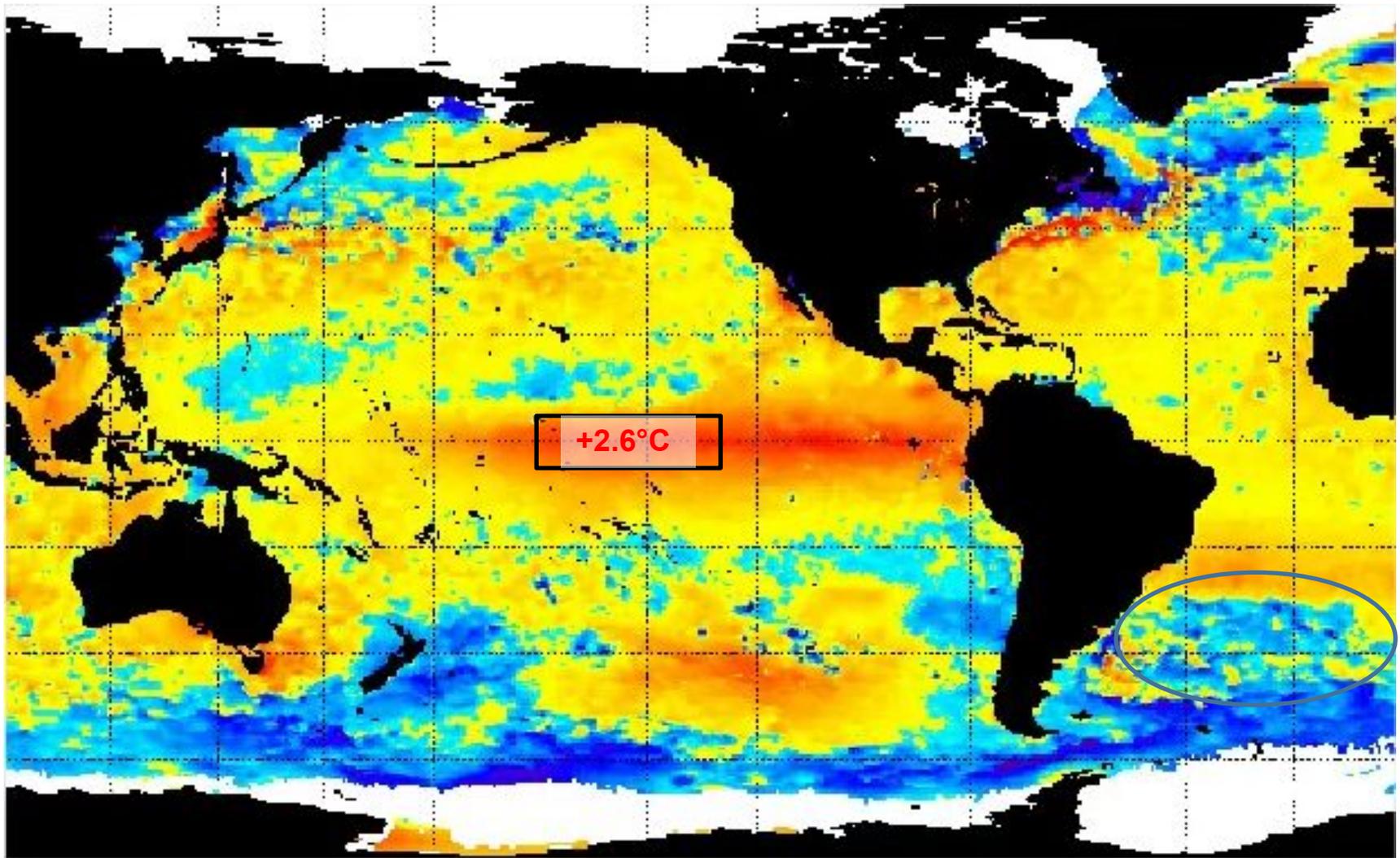


Status Atual: **El Niño**

NOAA Coral Reef Watch Daily 5km SST Anomalies (v3.1) 21 Aug 2023

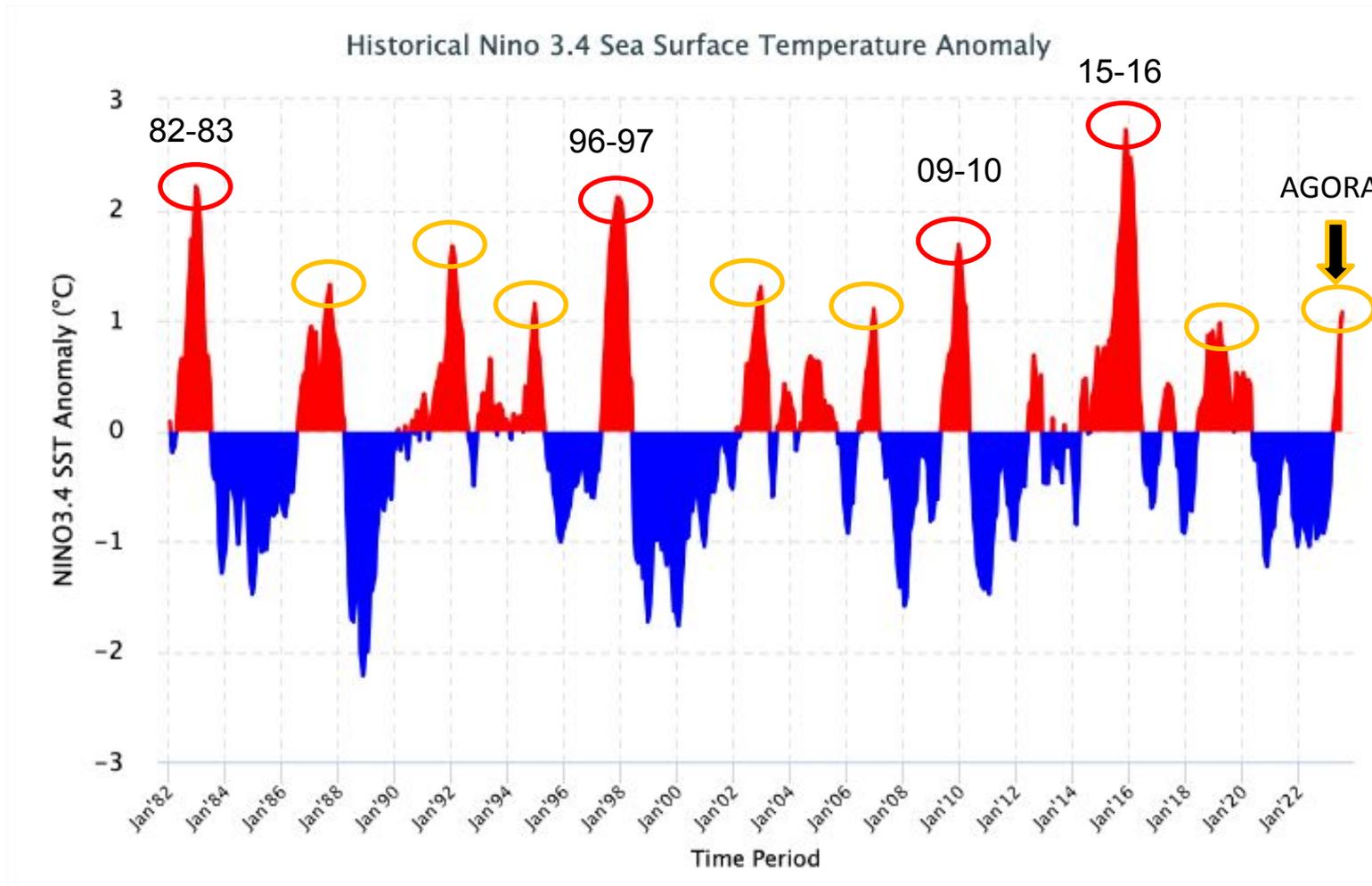


El Niño 2015-2016 (muito forte)



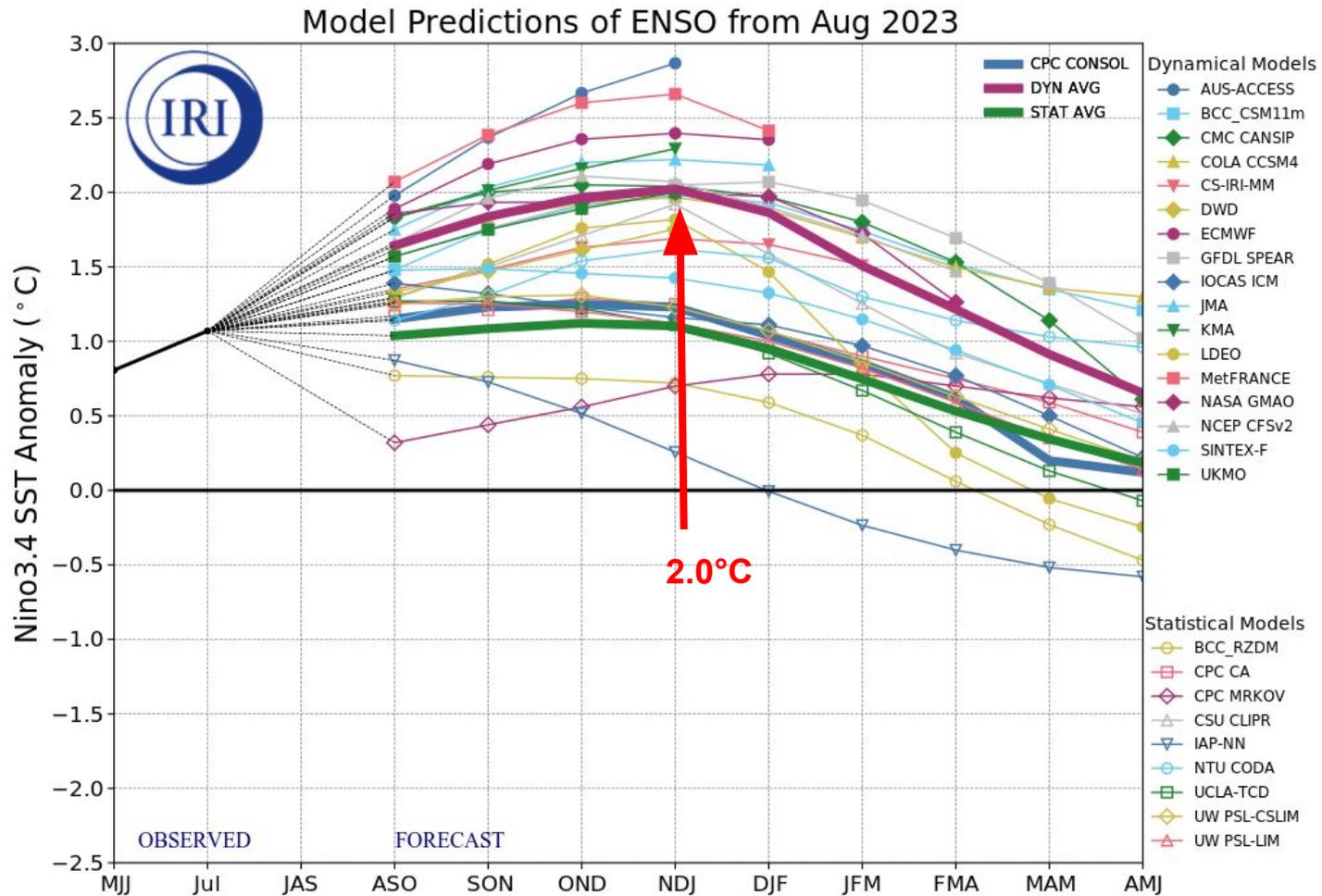
Dezembro de 2015

Comparação de fenômenos EN

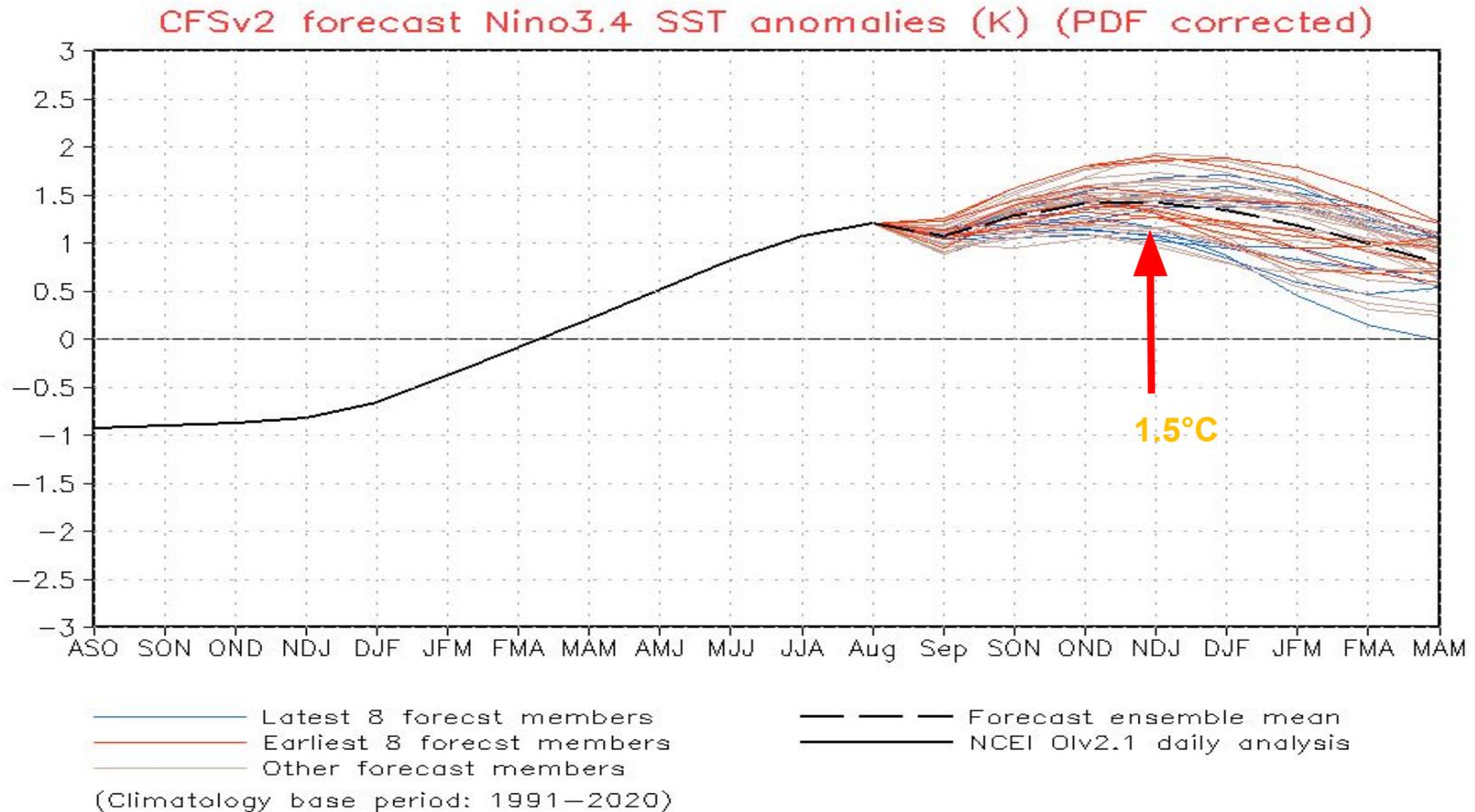


Dezembro de 2015

Previsão do “ENSO”



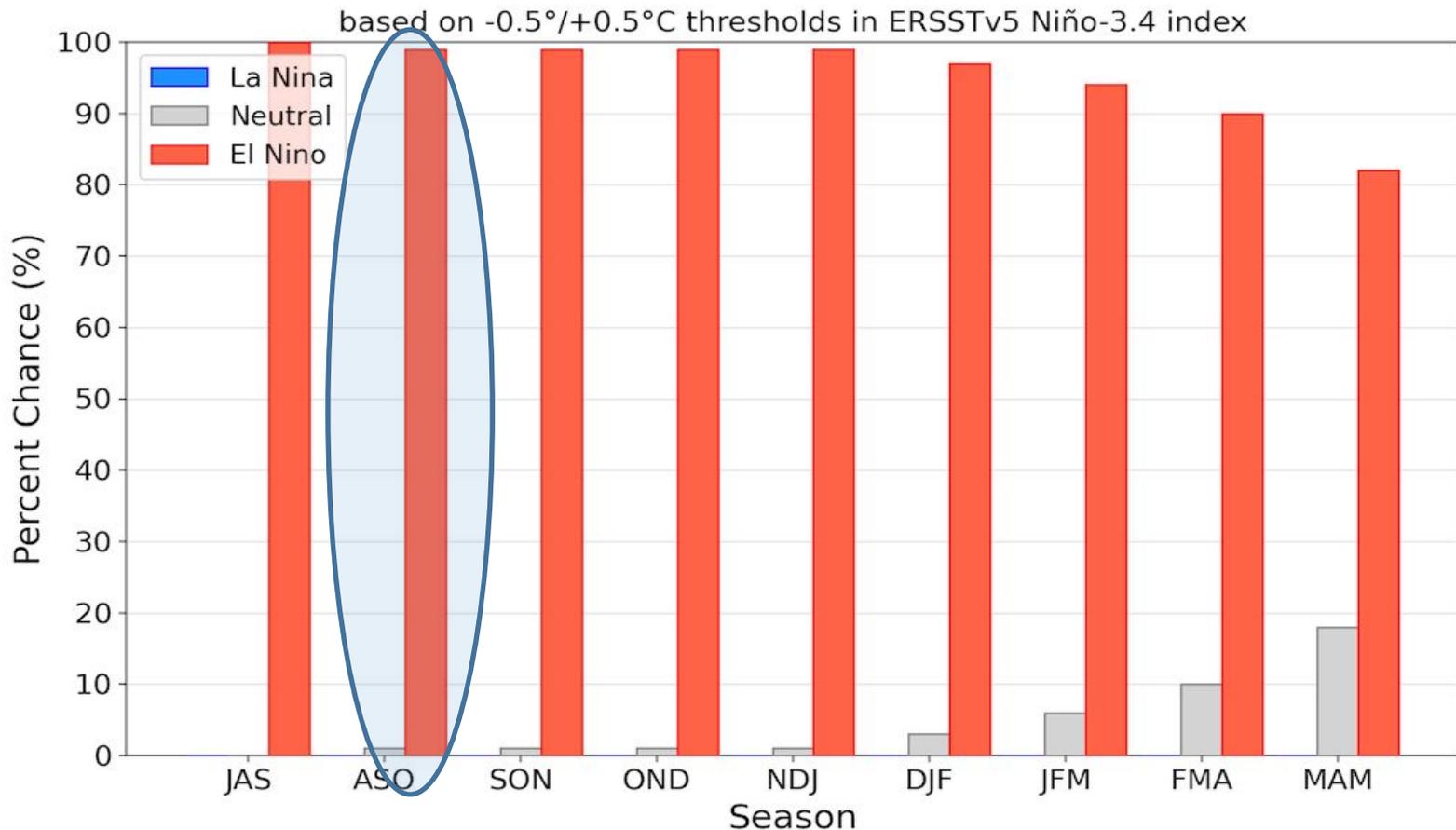
Previsão do “ENSO”



Atualizado: 21 de Agosto 2023

Previsão do “ENSO”

Official NOAA CPC ENSO Probabilities (issued Aug. 2023)



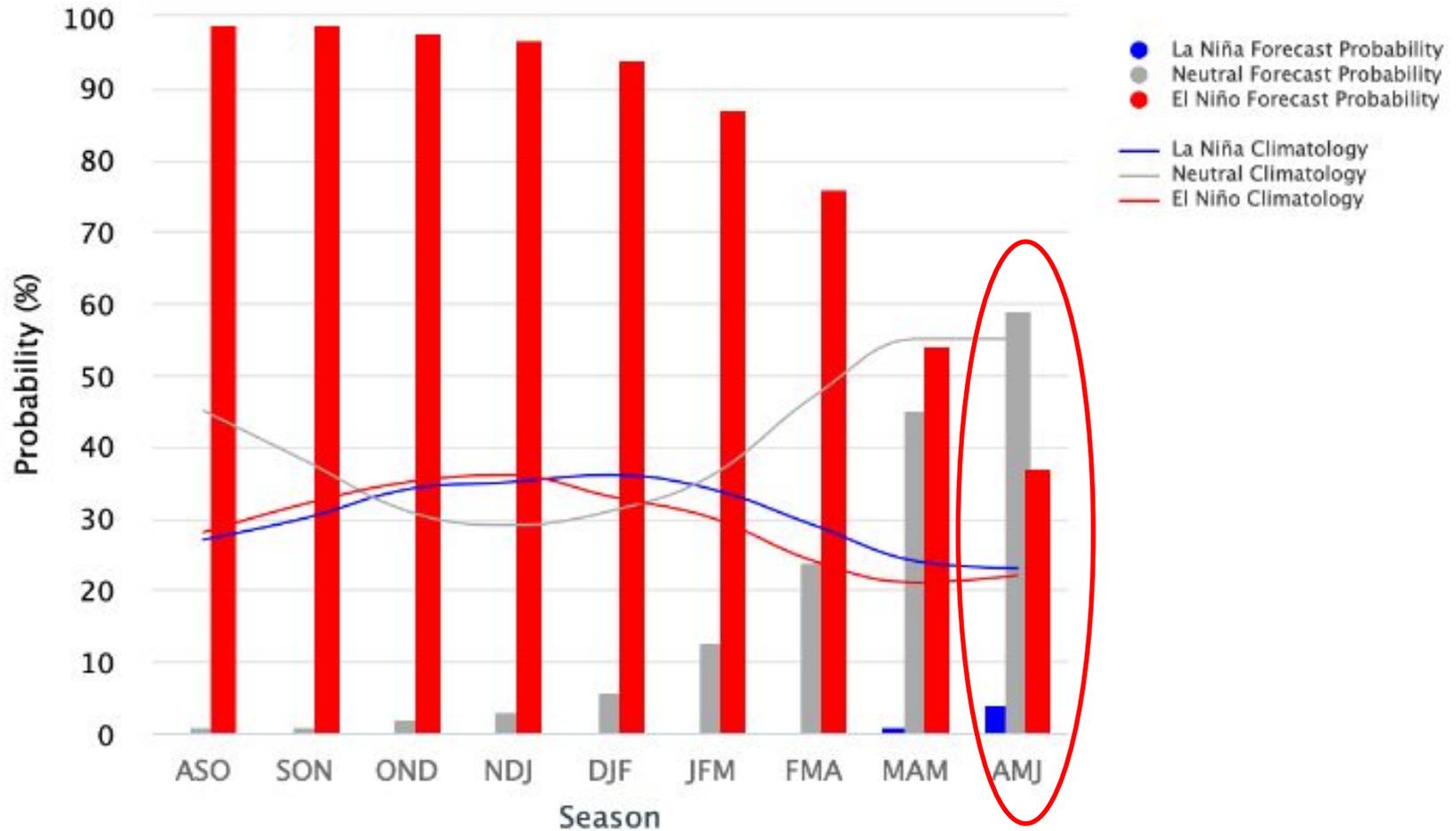
Status Atual: **El Niño**

FONTE: NOAA

Previsão do “ENSO”

Mid-August 2023 IRI Model-Based Probabilistic ENSO Forecasts

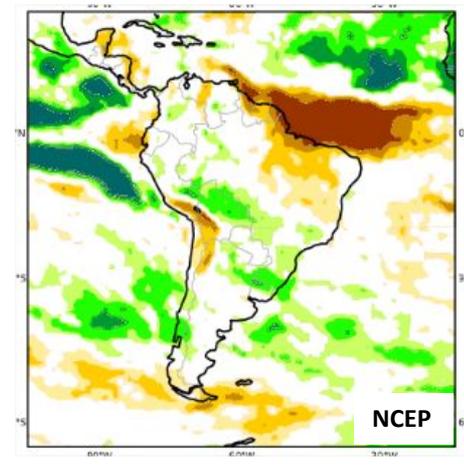
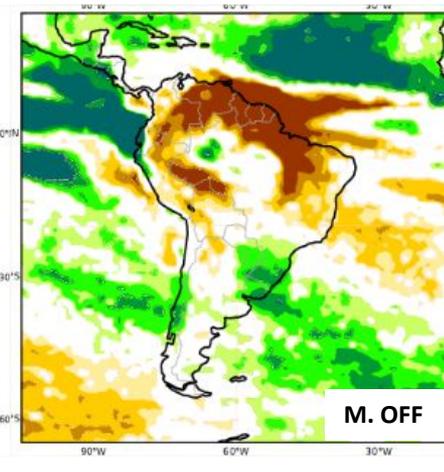
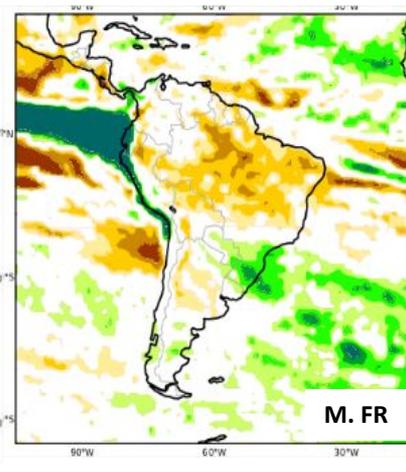
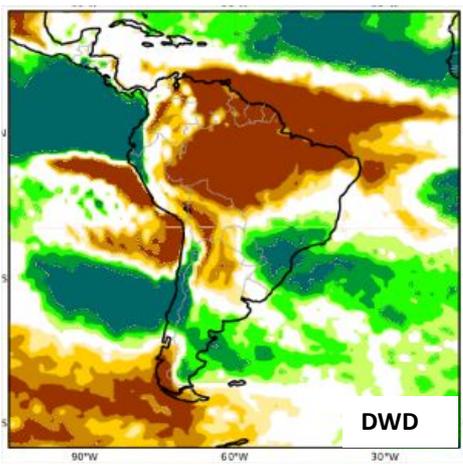
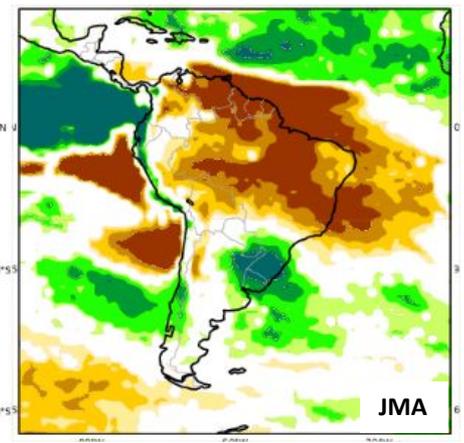
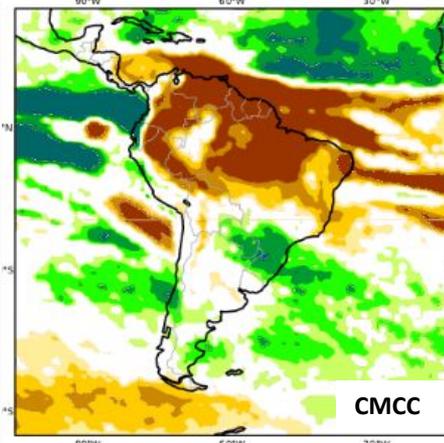
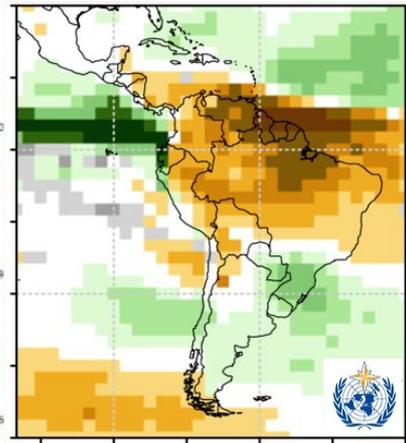
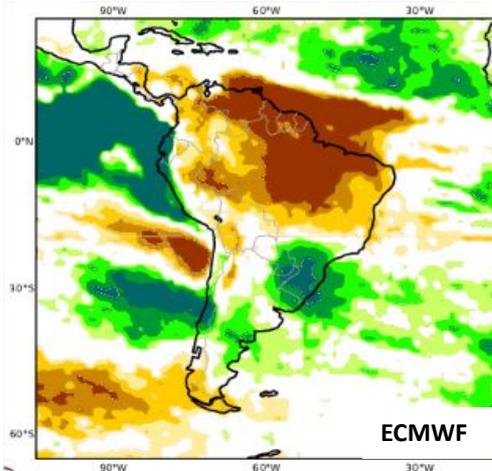
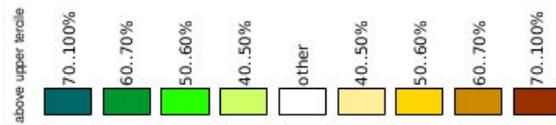
ENSO state based on NINO3.4 SST Anomaly Neutral ENSO: $-0.5\text{ }^{\circ}\text{C}$ to $0.5\text{ }^{\circ}\text{C}$.



Status Atual: **El Niño**

FONTE: NOAA

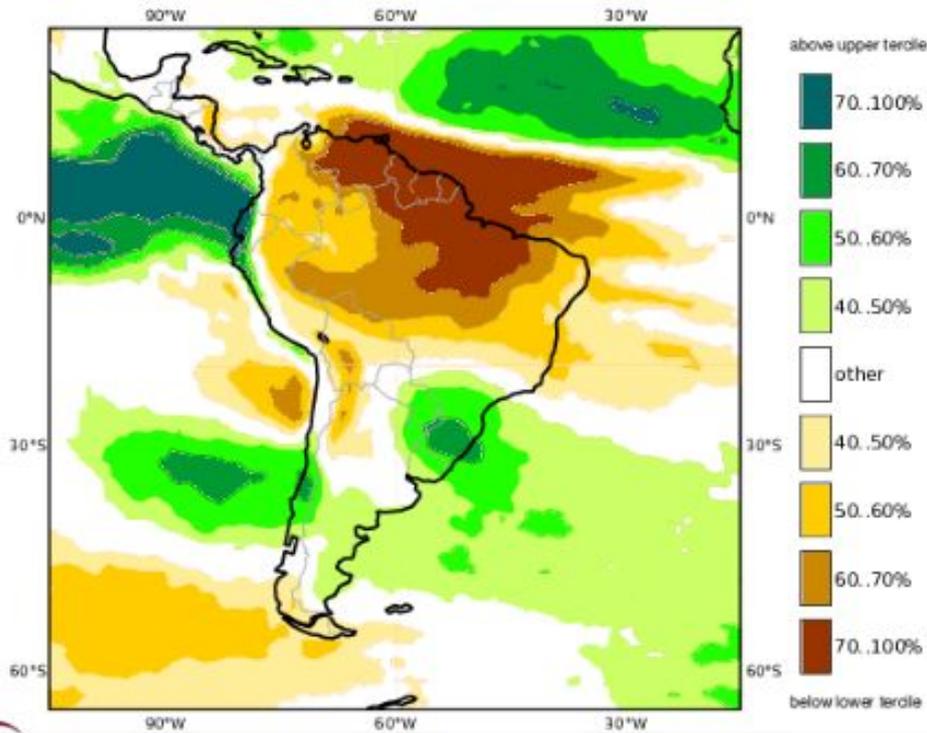
Previsão Sazonal de Chuva SON



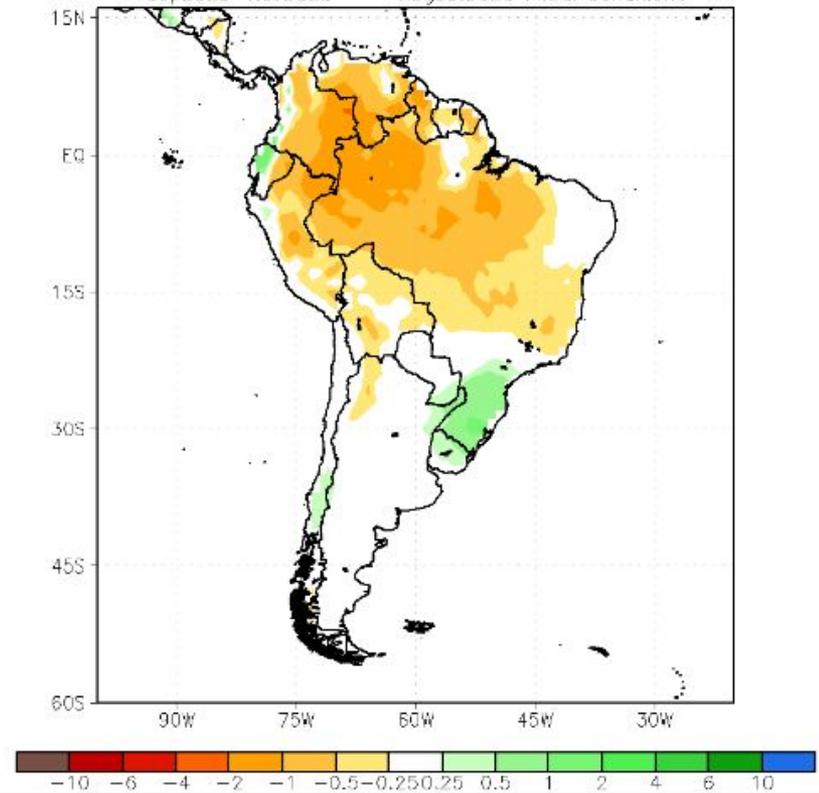
Previsão Multi Modelo SON

C3S multi-system seasonal forecast
Prob(most likely category of precipitation)
Nominal forecast start: 01/08/23
Unweighted mean

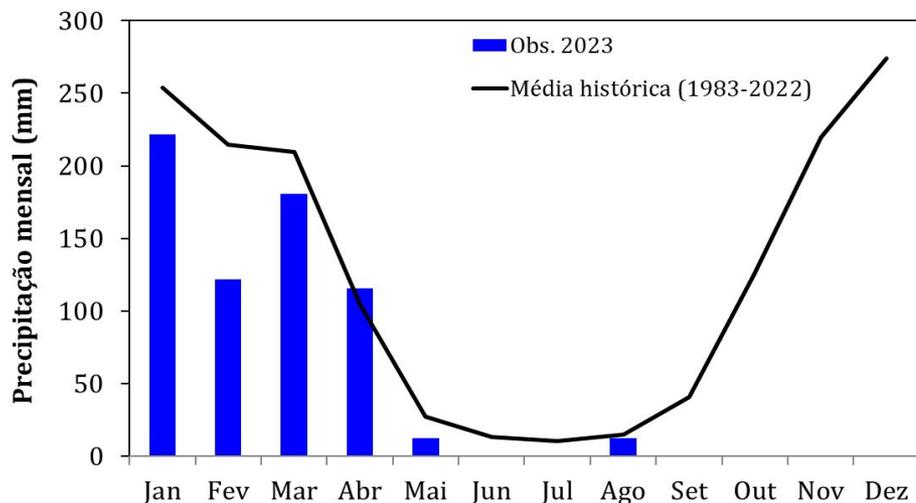
SON 2023



NMME Precipitation Anomalies (mm/day)
Sep2023–Nov2023 August2023 initial conditions



Monitoramento UHE Serra da Mesa



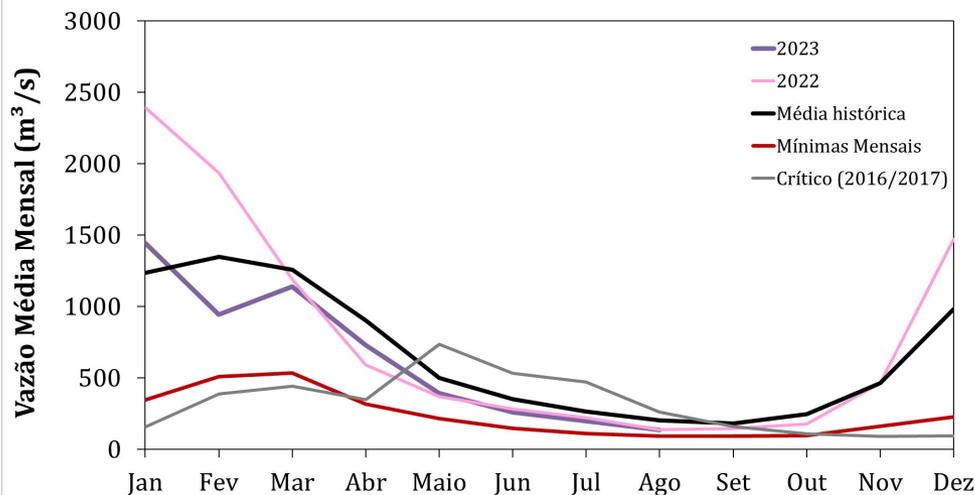
Precipitação

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*: 25 mm (23% da média histórica)

Ago/2023*: 12 mm (Média histórica = 15 mm)

*Até 27/08/2023



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)

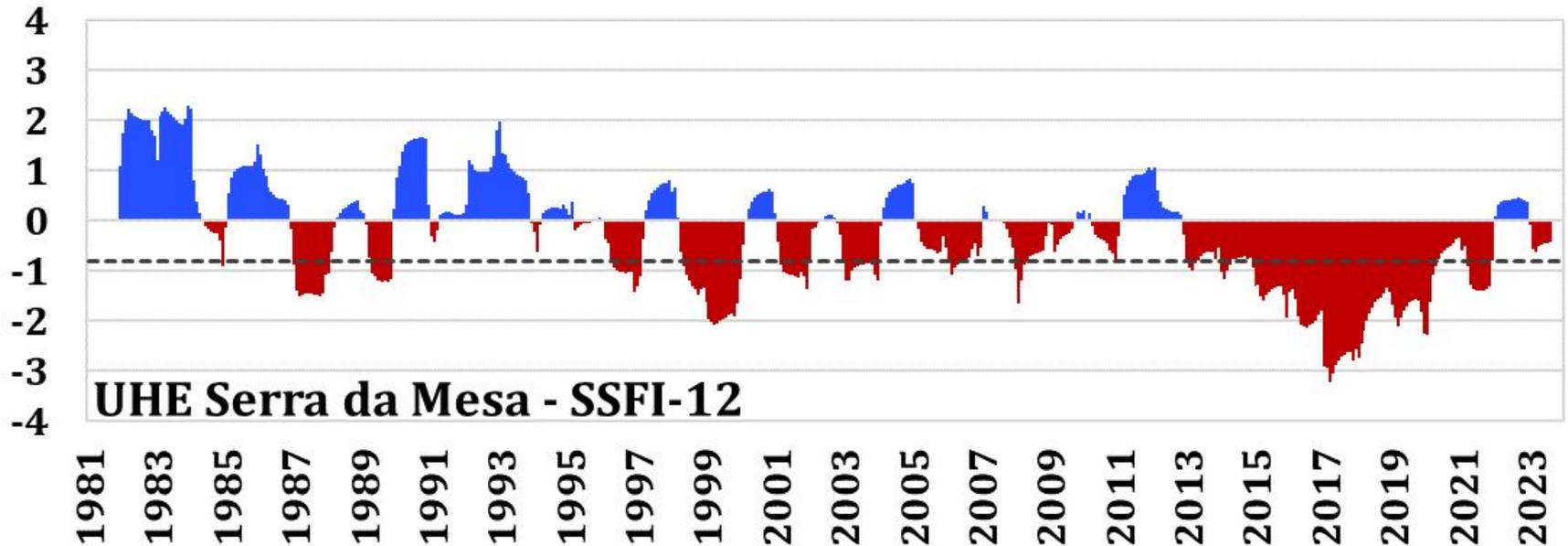
Estação Seca - Maio a Set – 300 m³/s
 2022: 231 m³/s (77% da MLT)
 2023*: 245 m³/s (82% da MLT)

Agosto/2023*: 136 m³/s (68% da MLT)
27/Ago/2023: 128 m³/s (64% da MLT)

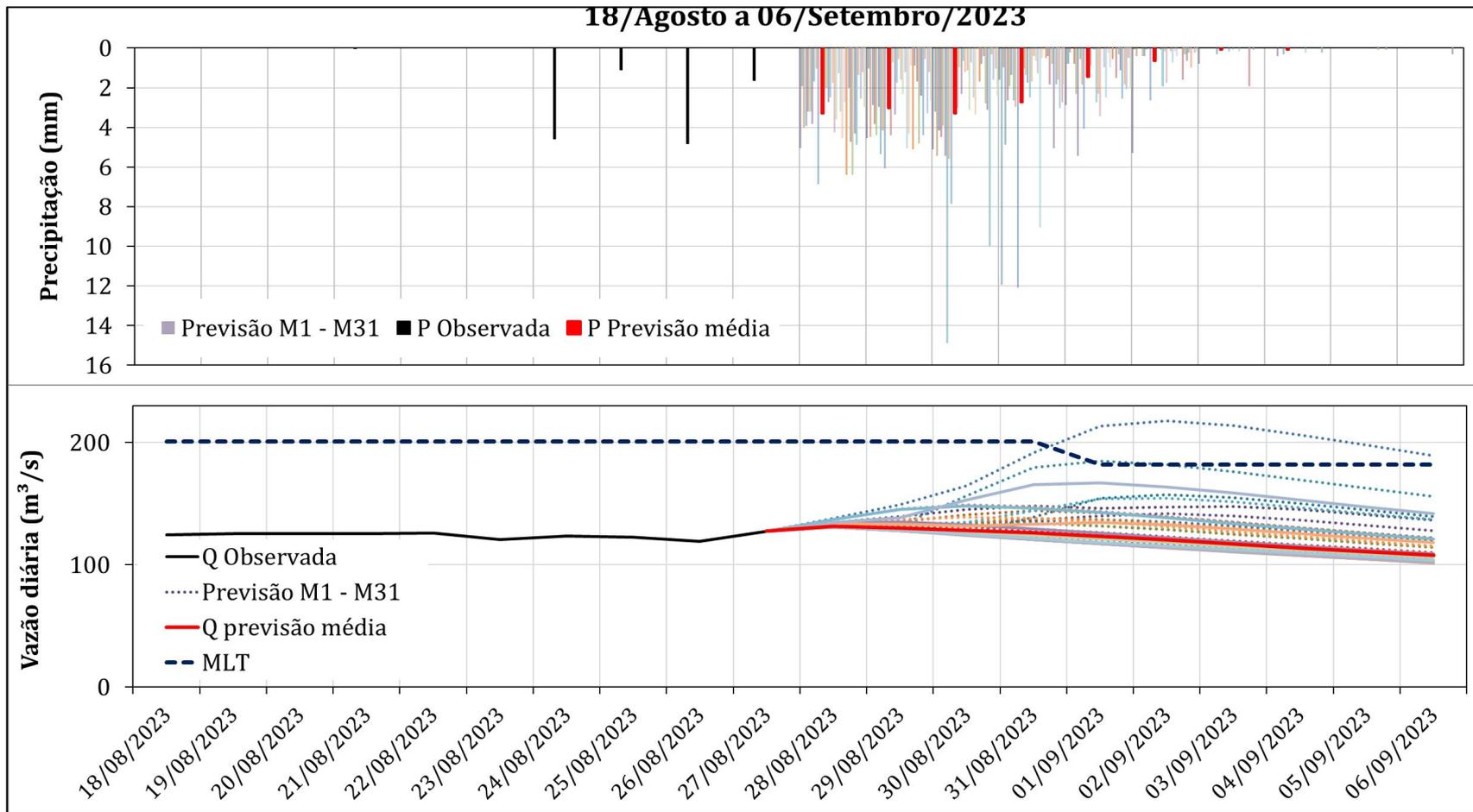
*Até 27/08/2023

Condição Normal

Índice Padronizado de Vazão (SSFI) – 12



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



Dados **observados de precipitação** (barras pretas) para o período 18 a 27/08/23 e **previsão** para o período de 28/08 a 06/09/23.

Dados **observados de vazão** (linha preta) para o período 18 a 27/08/23 e **previsão** para o período de 28/08 a 06/09/23.

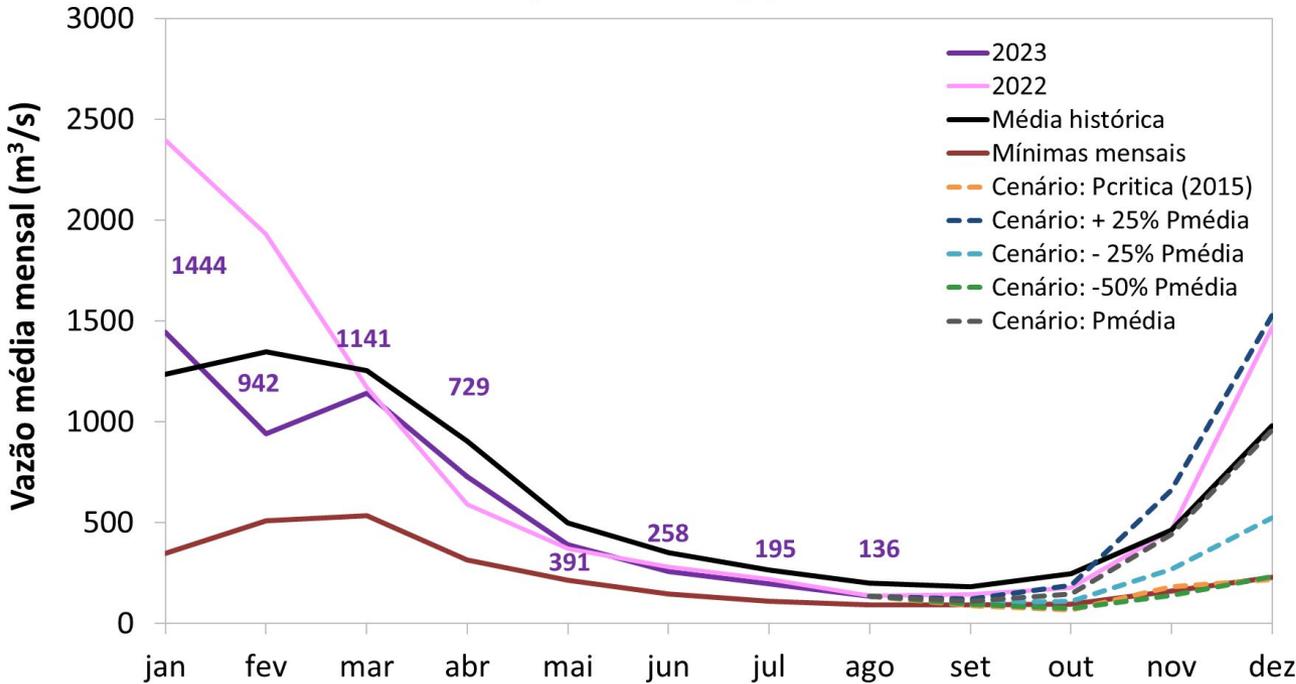
As barras coloridas correspondem às previsões da chuva para os 31 membros GEFS/NOAA e à média destes membros.

As linhas coloridas representam os membros de previsão de vazão.

Previsão média para os próximos 10 dias: 121 m³/s

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

Previsão: 28/ Ago a 06/Set - Projeções: 07/Set a 31/Dez/23



Setembro - Dezembro
MLT: 468 m³/s

Vazão	%
624 m³/s	MLT 133%
415 m³/s	89%
252 m³/s	54%
135 m³/s	29%
139 m³/s	30%