

Monitoramento, Previsões e Projeções para a Bacia do Rio São Francisco

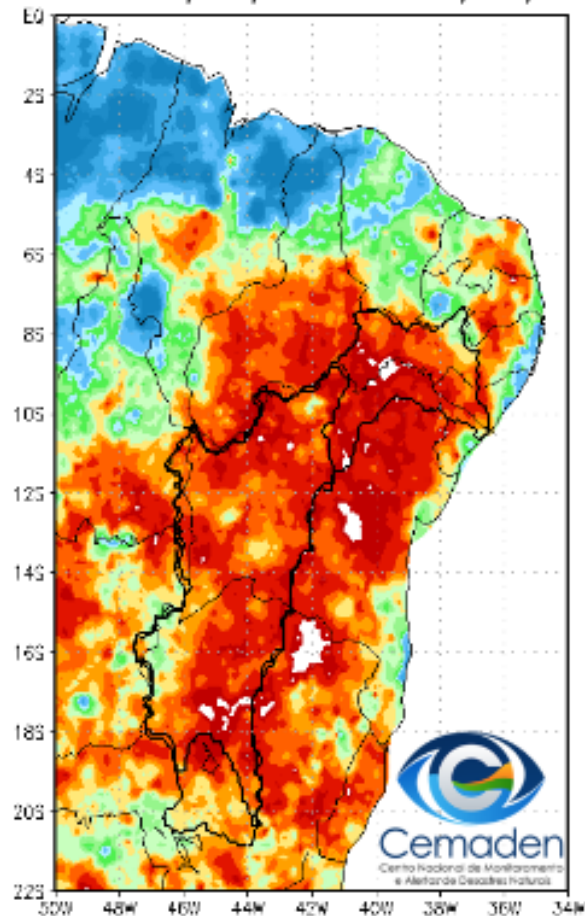


Cemaden
Centro Nacional de Monitoramento
e Alertas de Desastres Naturais

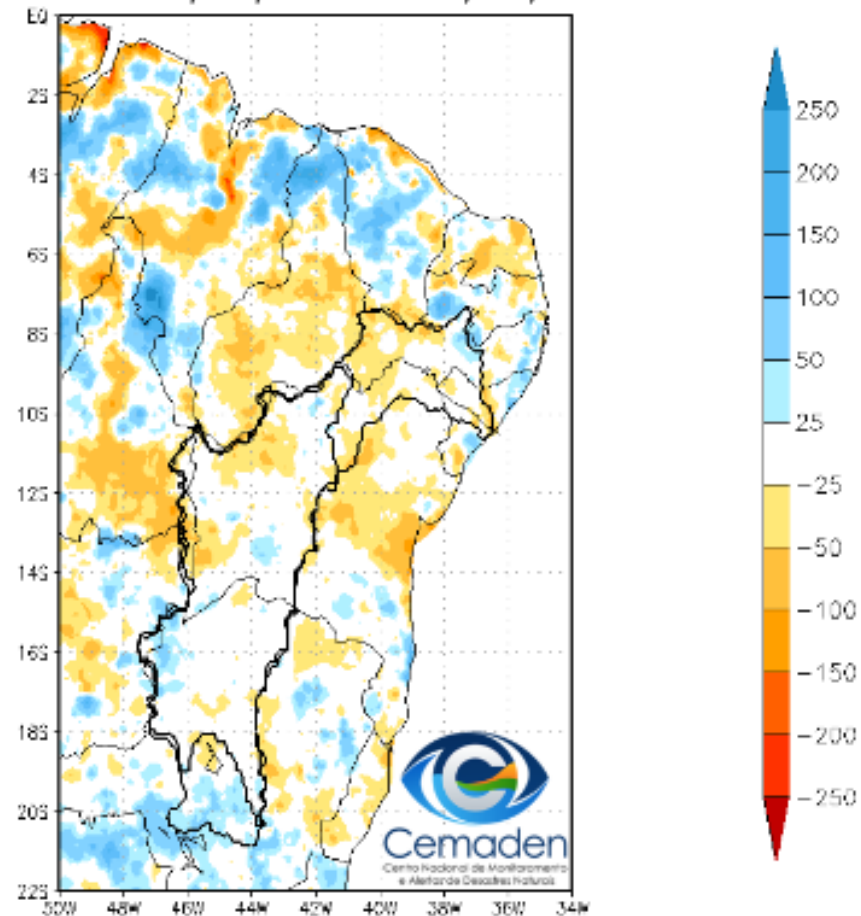
02 de Maio de 2023

Chuva dos últimos 30 dias

Precipitacao Acumulada (mm) A.S.
Período: 01/04/2023 a 01/05/2023

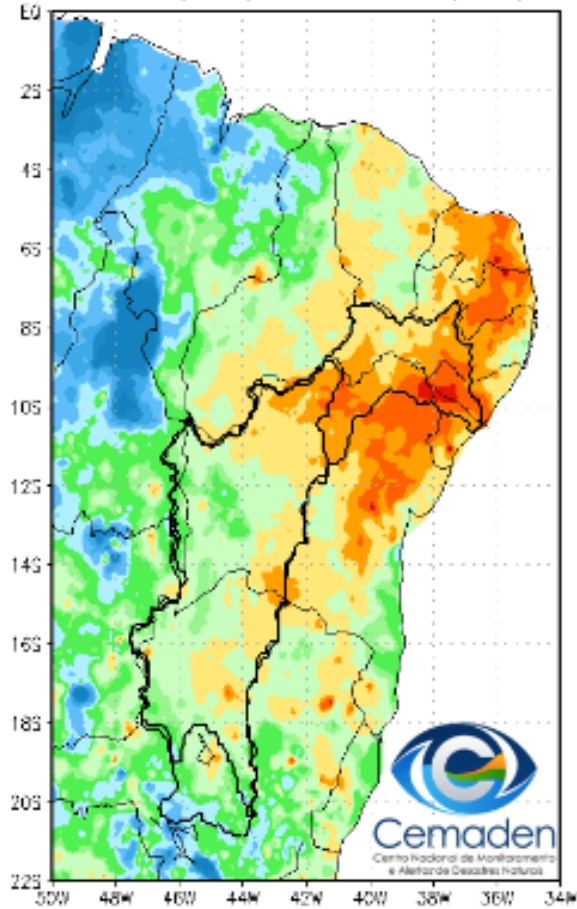


Anomalia de Precipitacao (mm) A.S.
Período: 01/04/2023 a 01/05/2023

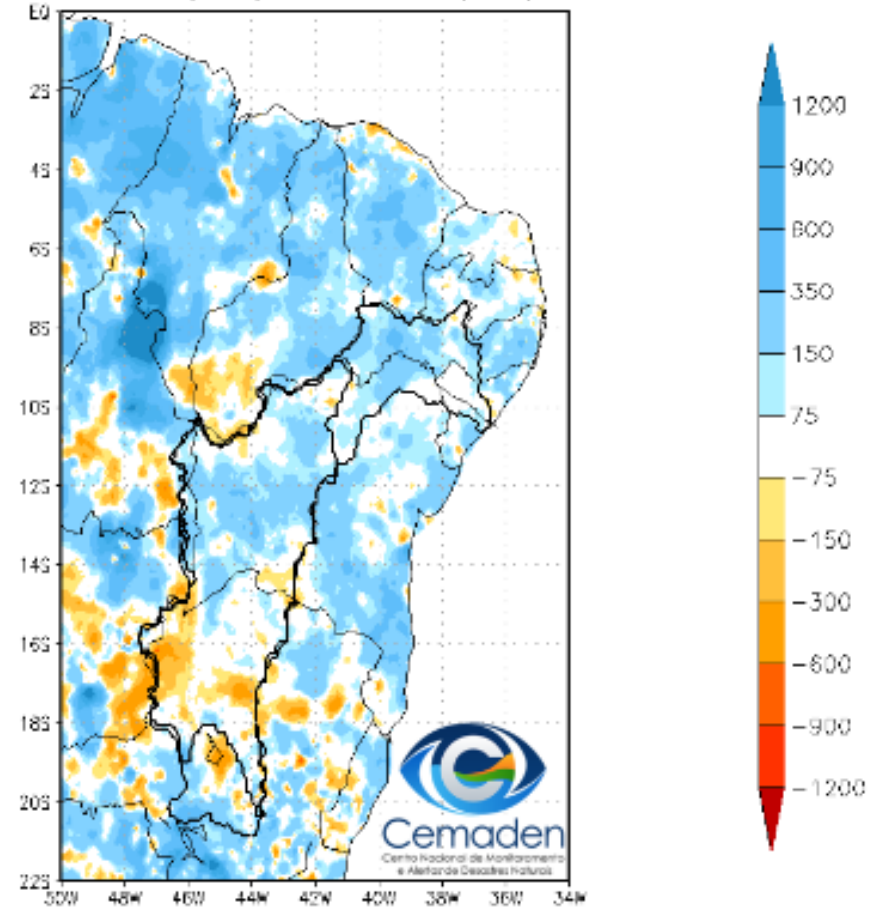


Chuva no ano hidrológico

Precipitacao Acumulada (mm) A.S.
Período: 01/10/2022 a 01/05/2023

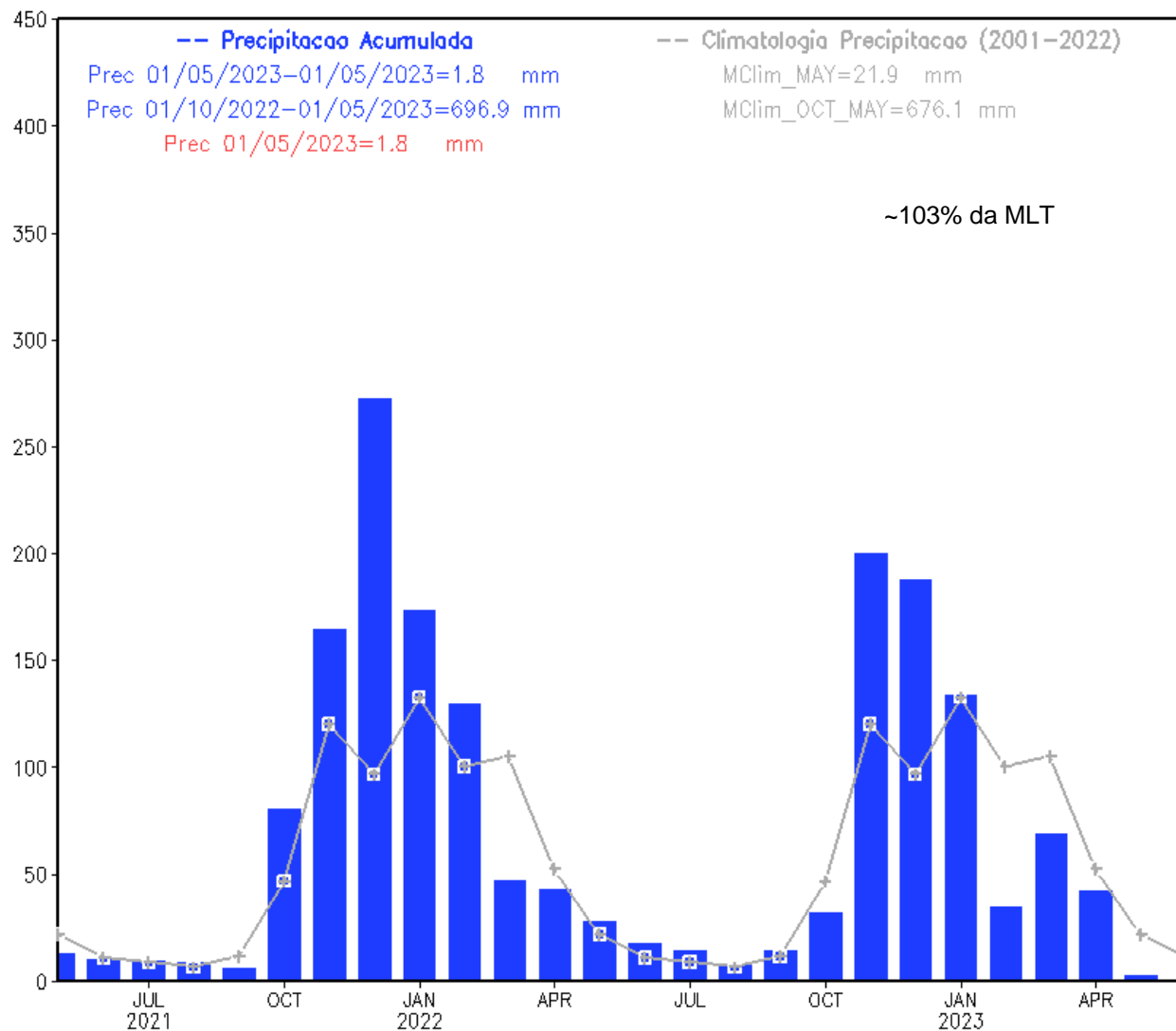


Anomalia de Precipitacao (mm) A.S.
Período: 01/10/2022 a 01/05/2023

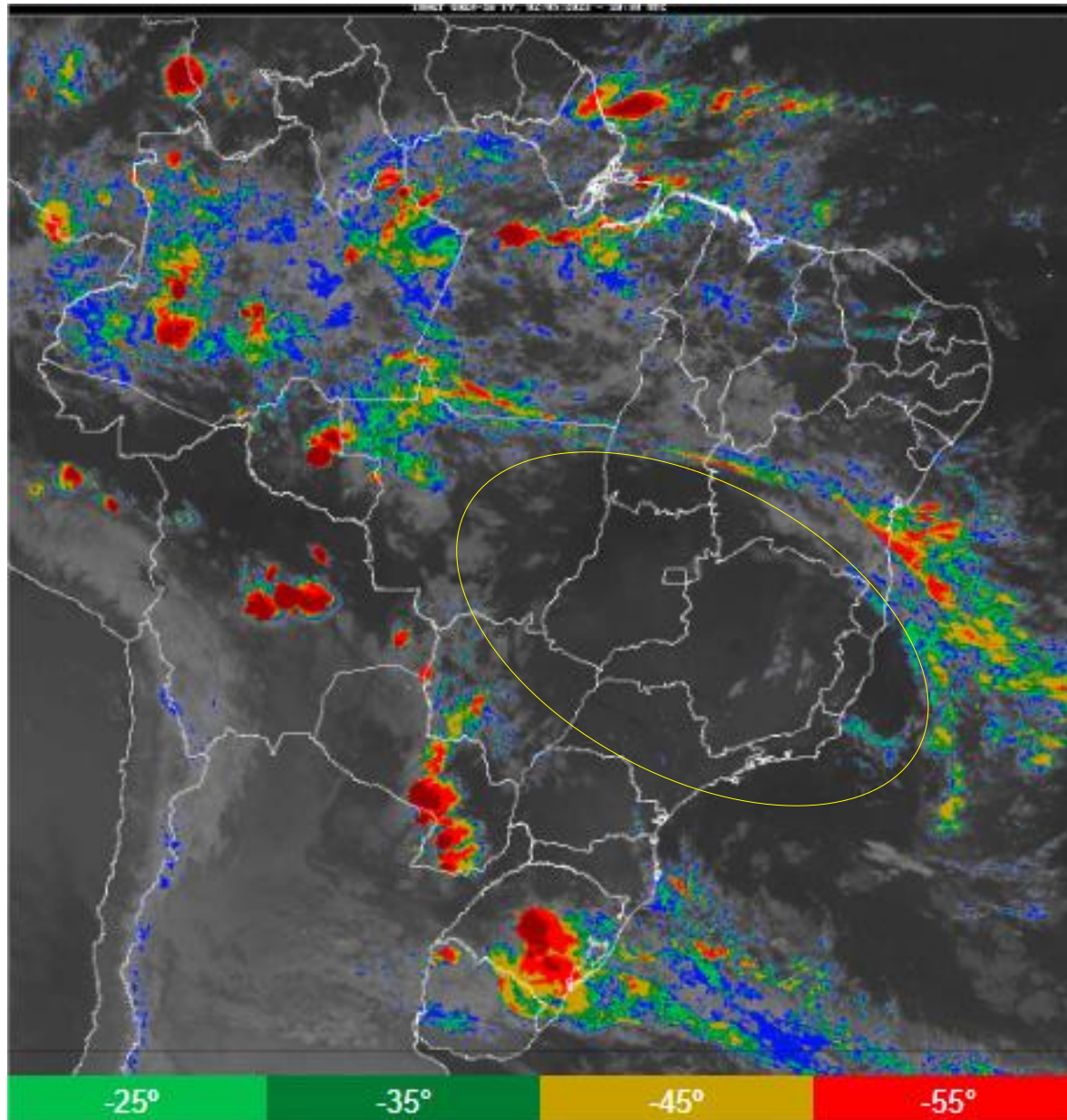


Bacia do rio São Francisco

Precipitacao Bacia do Rio Sao_Francisco desde MAY 2021

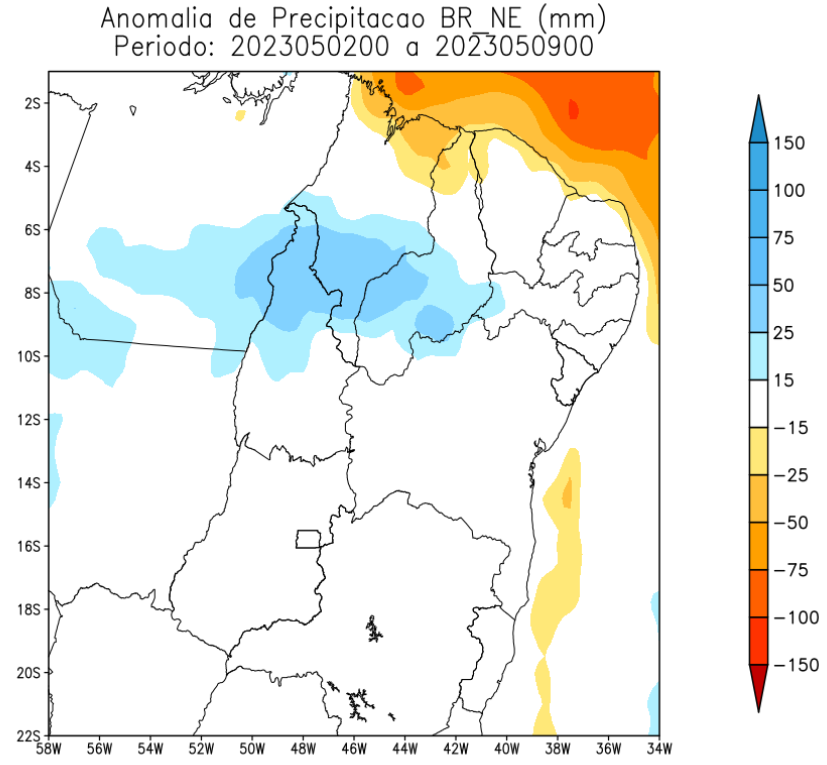
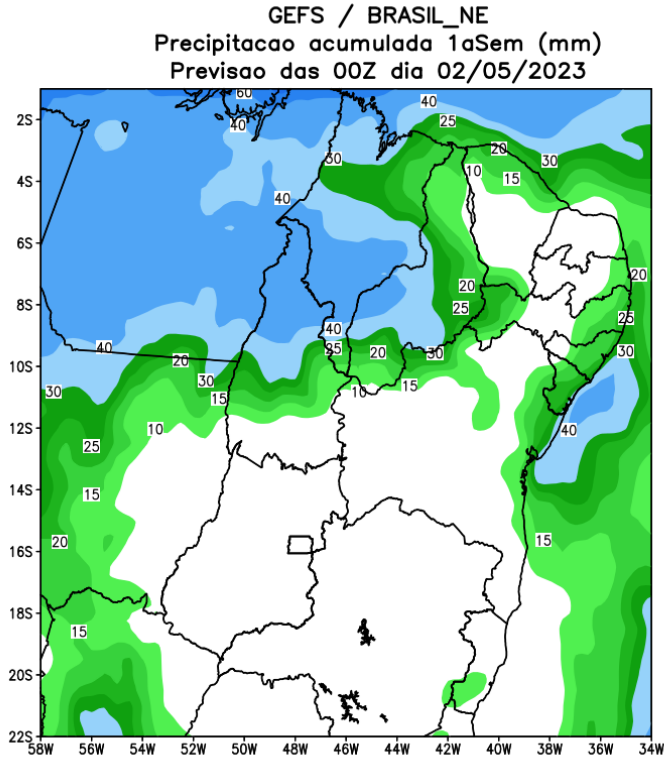


Situação meteorológica atual



Fonte: INMET

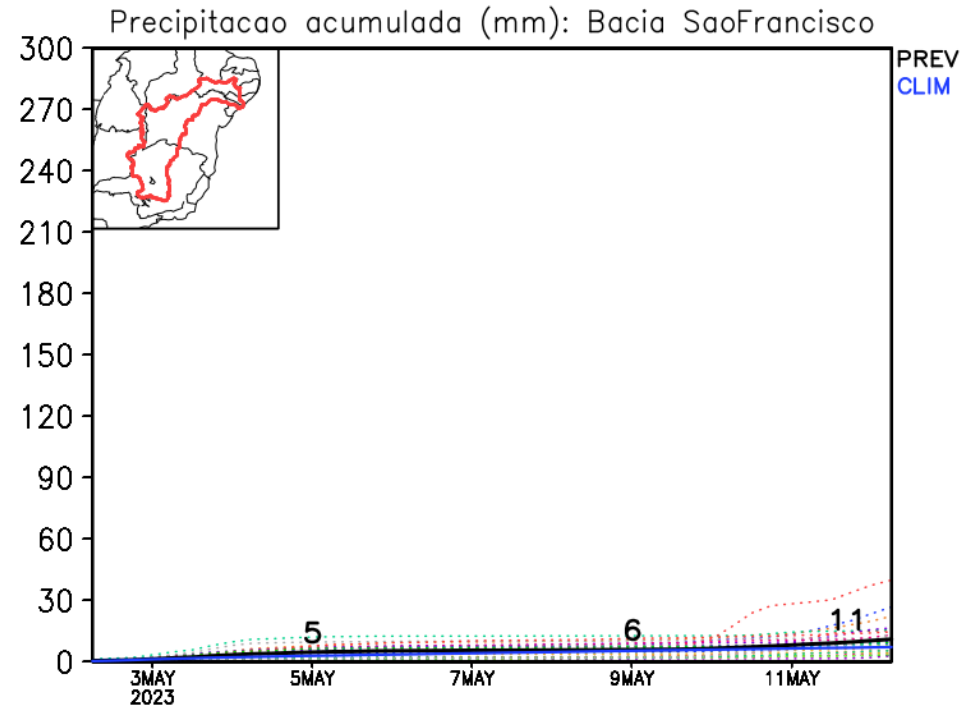
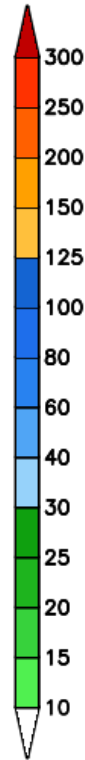
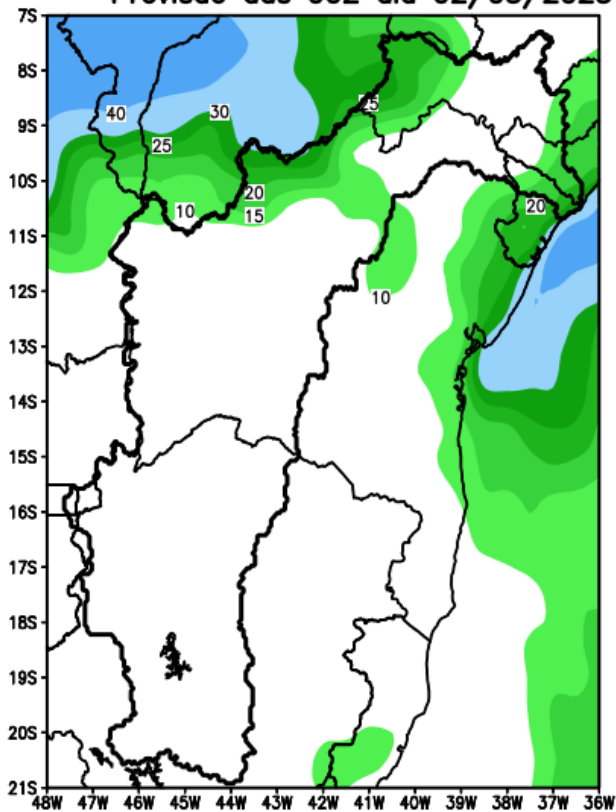
Previsão de chuva próximos 7 dias



Fonte: GEFS/NOAA

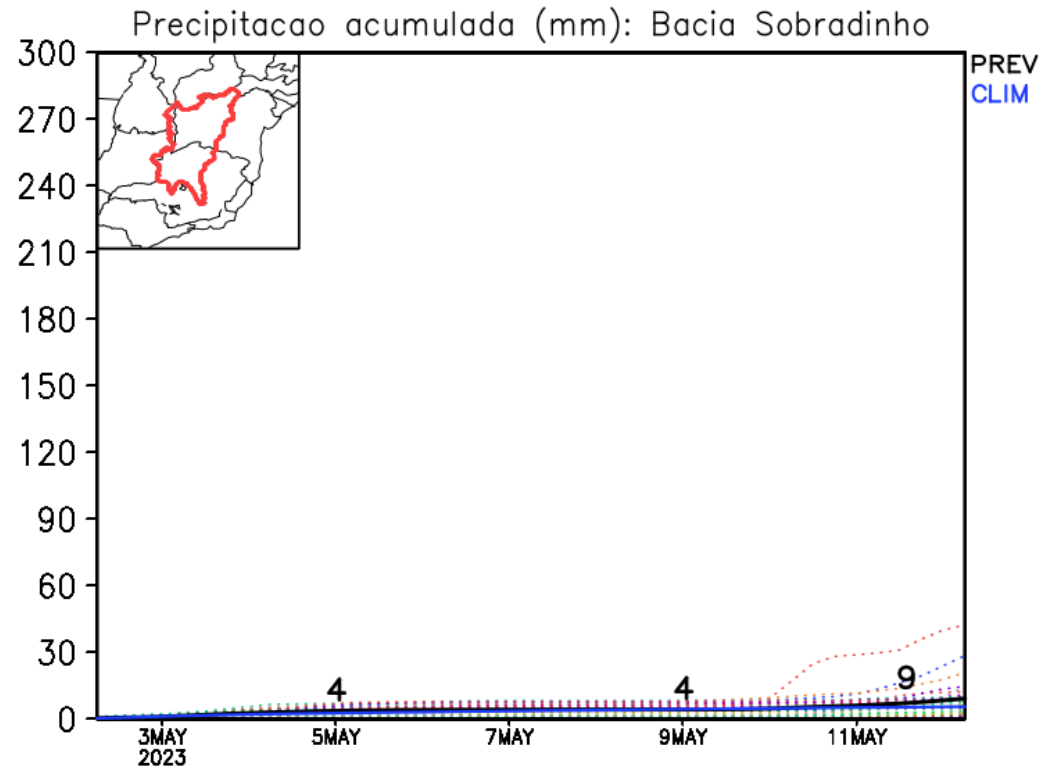
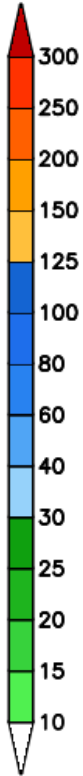
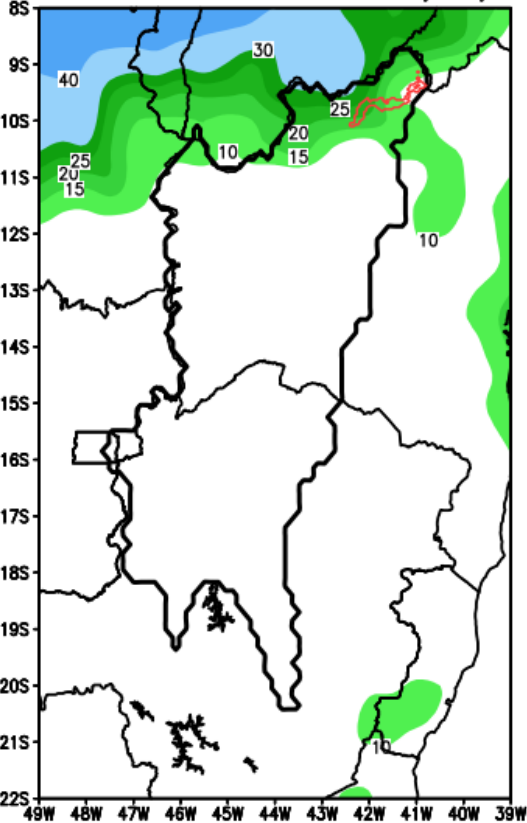
Bacia do rio São Francisco

GEFS / Bacia do Rio Sao Francisco
Precipitacao acumulada em 7 dias (mm)
Previsao das 00Z dia 02/05/2023



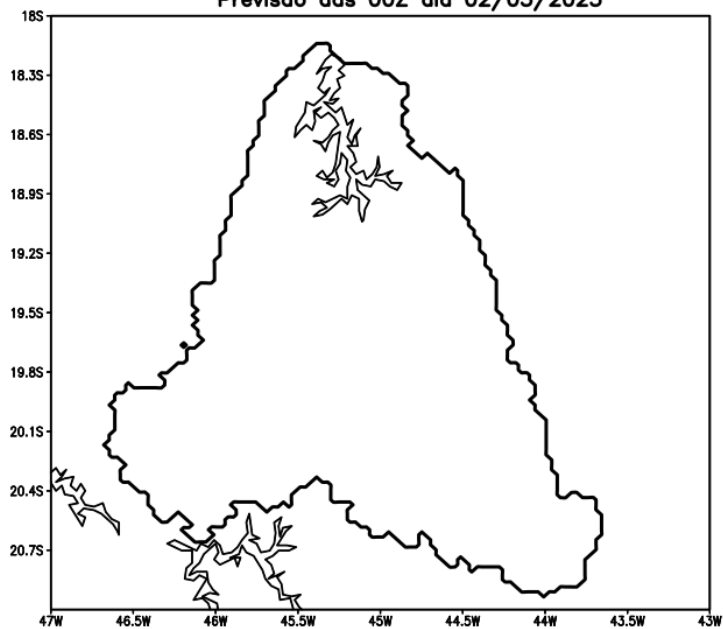
Bacia de Sobradinho

GEFS / Sobradinho
Precipitacao acumulada em 7 dias (mm)
Previsao das 00Z dia 02/05/2023

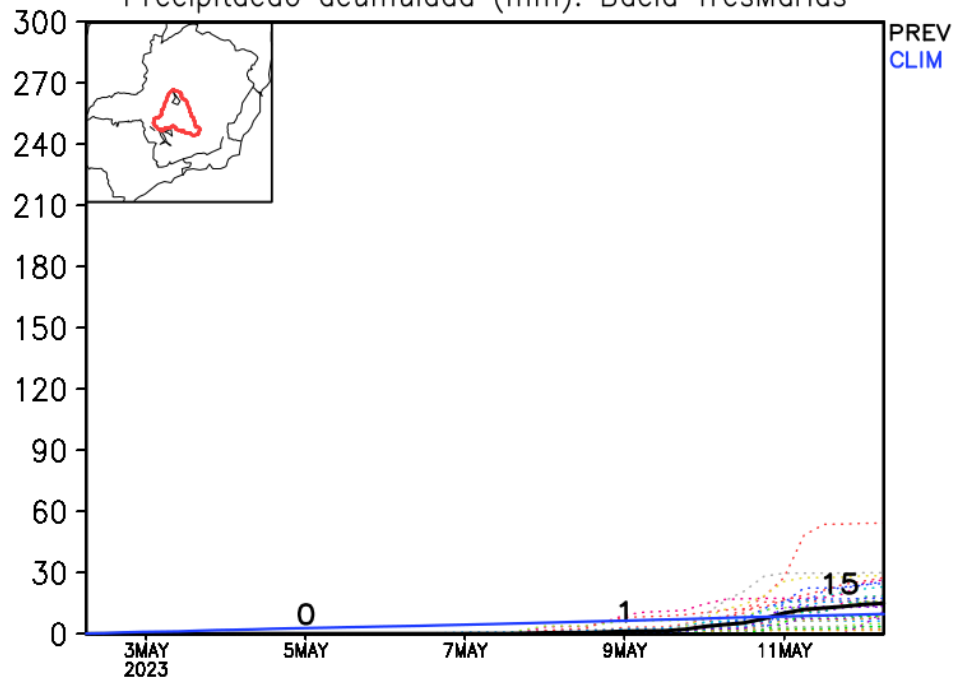


Bacia de Três Marias

GEFS / Tres Marias
Precipitacao acumulada em 7 dias (mm)
Previsao das 00Z dia 02/05/2023

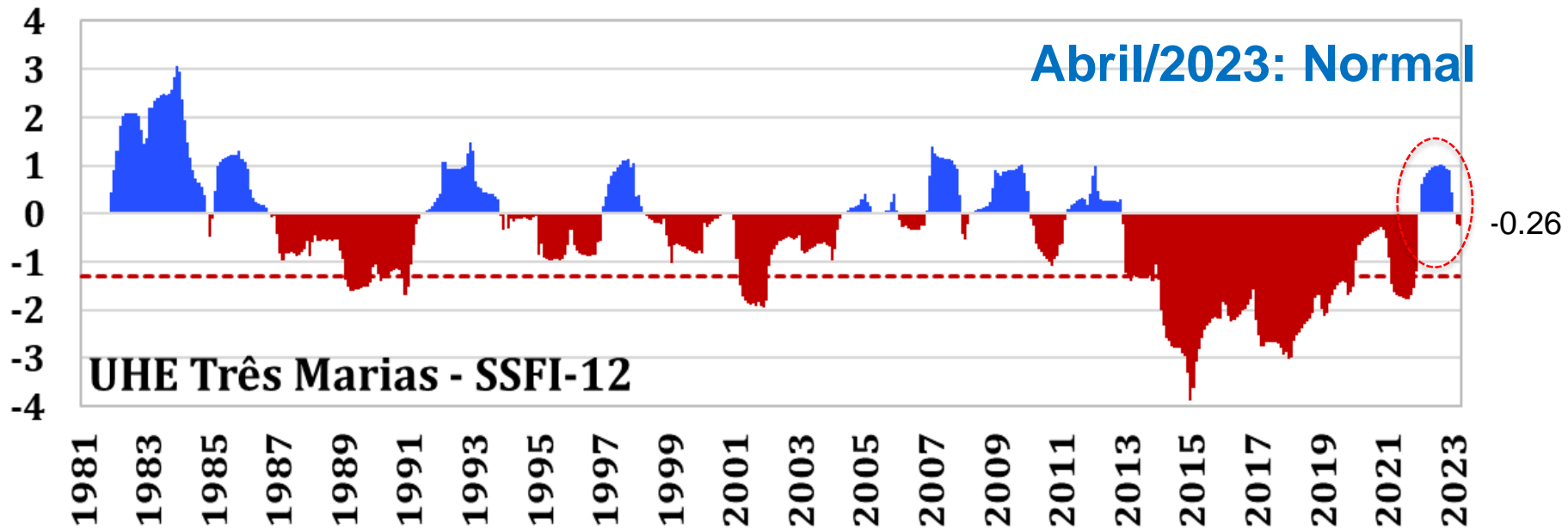


Precipitacao acumulada (mm): Bacia TresMarias



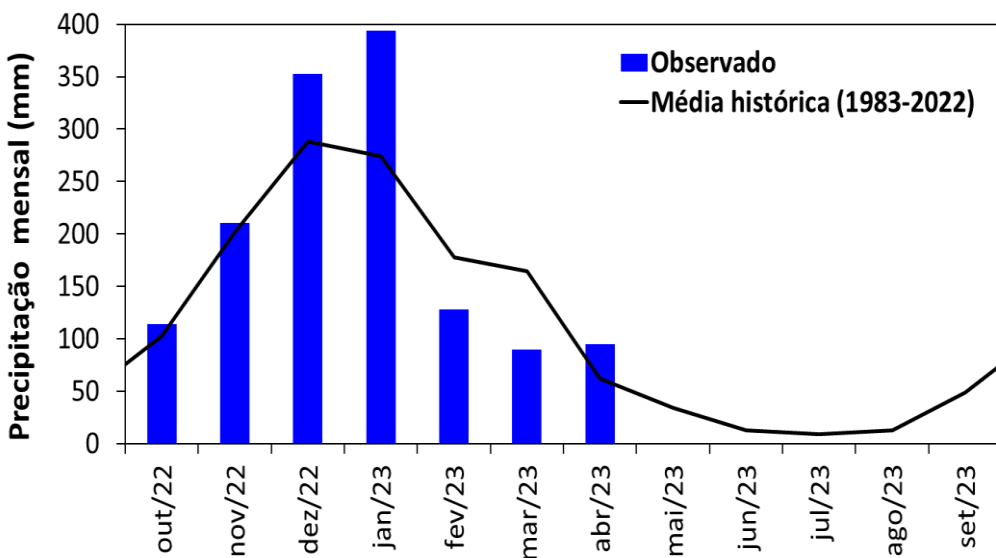
Monitoramento UHE Três Marias

Índice Padronizado de Vazão (SSFI) – 12 meses



Monitoramento UHE Três Marias

Precipitação



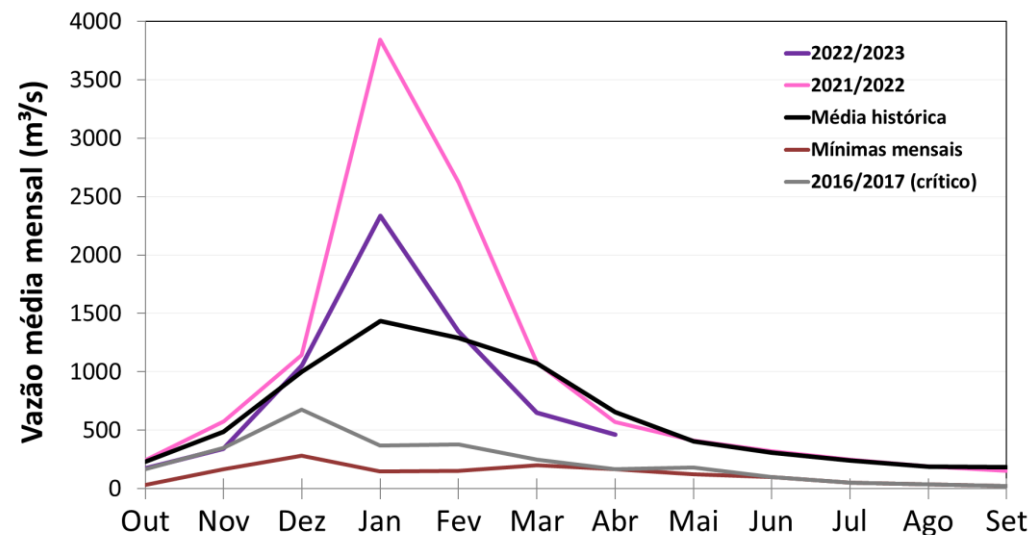
Estação Chuvosa - Out a Mar - 1209 mm
 2021/2022: 1592 mm (**132% da média histórica**)
 2022/2023: 1288 mm (**106 da media histórica**)

Estação Seca - Abr a Set – 179 mm
 2022: 116 mm (**64% da média histórica**)
 2023*: 95 mm (**327% da média histórica PARCIAL**)

Abril/23*: 95 mm (**154% da media histórica**)

*Até 30/04/2023

Vazão



Estação Chuvosa - Nov a Abr - 989 m³/s
 2021/2022: 1639 m³/s (**166% da MLT**)
 2022/2023: 1026 m³/s (**104% da MLT**)

Estação Seca - Maio a Out – 260 m³/s
 2021: 136 m³/s (**52% da MLT**)
 2022: 250 m³/s (**96% da MLT**)

Abr/23*: 460 m³/s (**70% da MLT**)
30/Abril: 475 m³/s (**73% da MLT**)

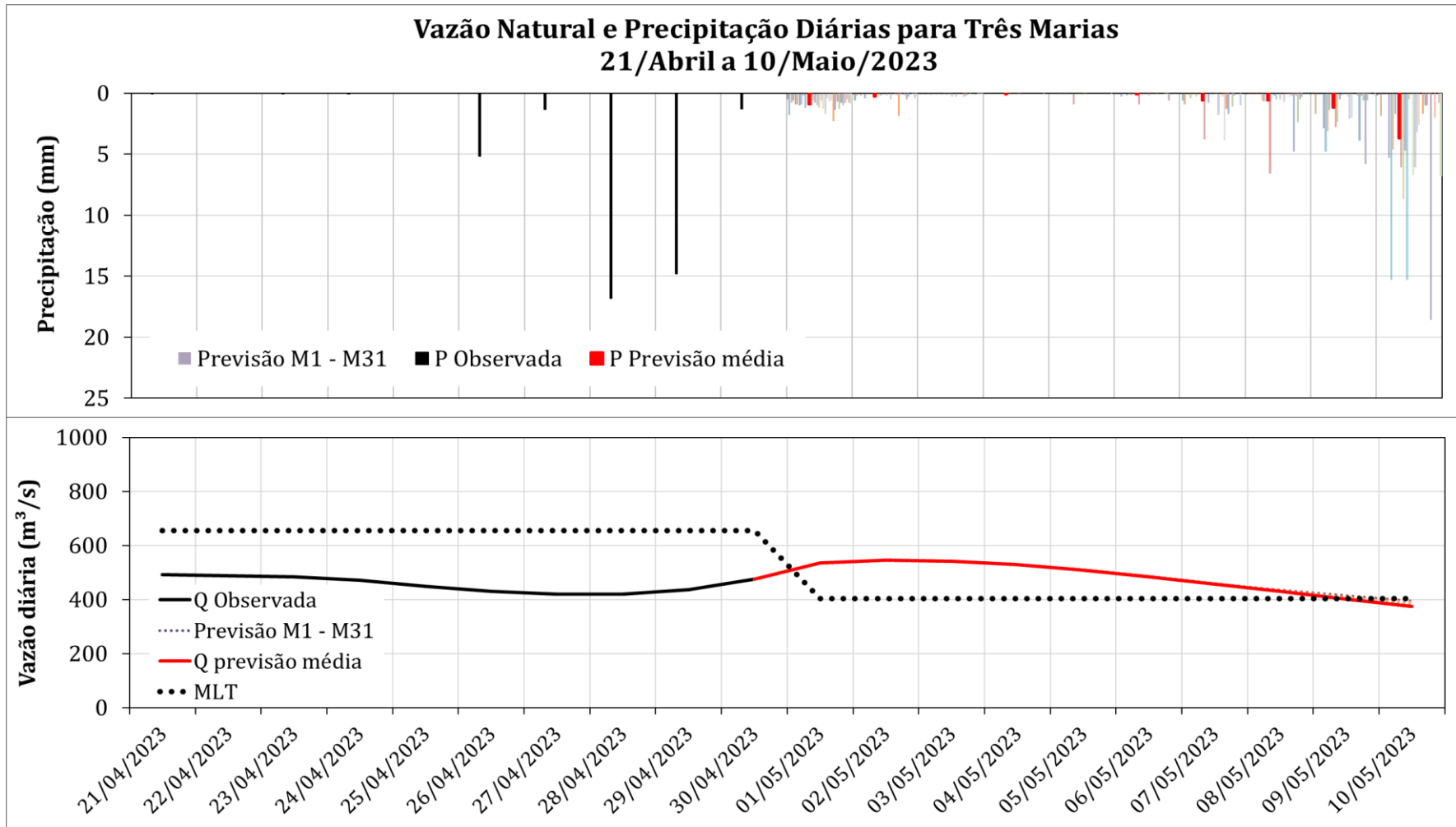
*Até 30/04/2023

MLT-Média de Longo Termo (1983-2022)

Dados de precipitação: INMET, ANA, CEMADEN.

Dados de vazão: ONS e ANA.

UHE Três Marias: Previsão de Vazão (modelo PDM/CEMADEN)



Dados **observados de precipitação** (barras pretas) para o período 21 a 30/04 e **previsão** para o período de 01 a 10/05/
Dados **observados de vazão** (linha preta) para o período 21 a 30/04 e **previsão** para o período de 01 a 10/05

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.

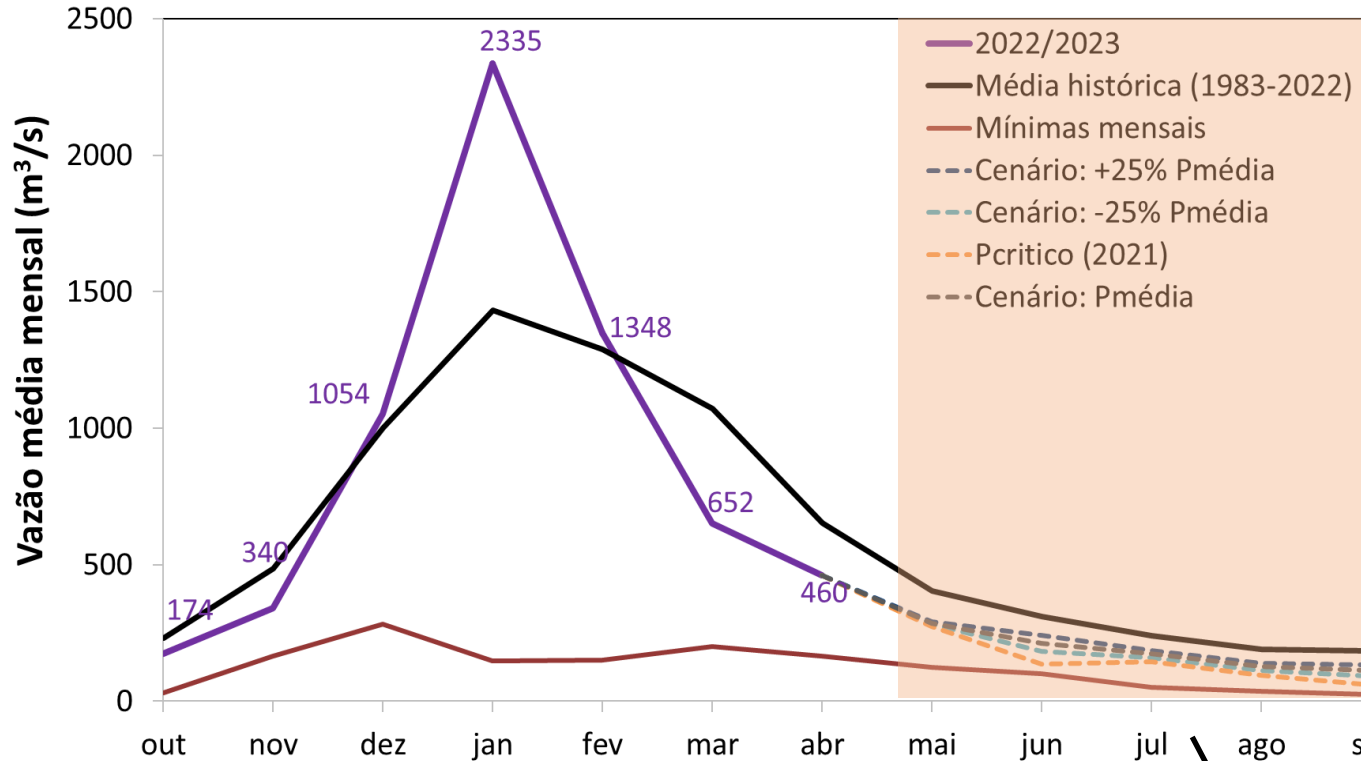
Previsão média para os próximos 10 dias: 480 m³/s

Valor superior a MLT de Maio (403 m³/s)

UHE Três Marias: Projeções de Vazão (modelo PDM/CEMADEN)

Histórico e simulação da vazão natural média mensal
UHE Três Marias - Rio São Francisco

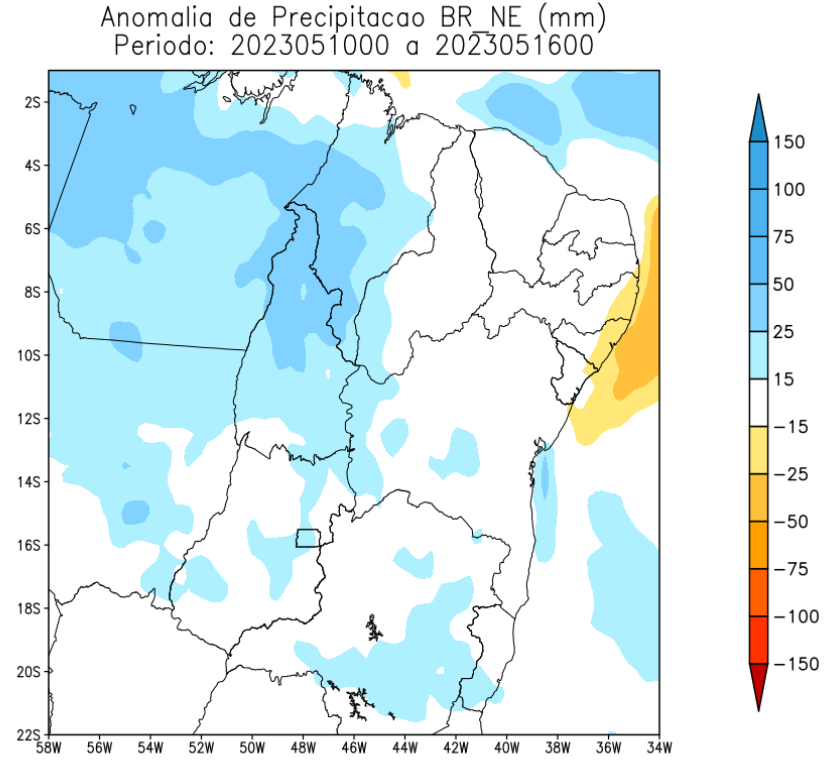
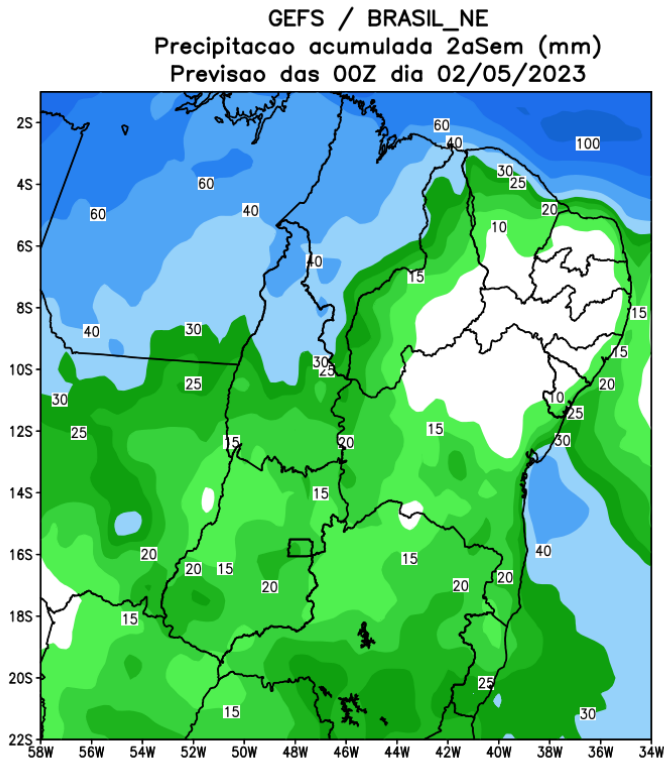
Previsão: 01 a 10/Maio- Projeções: 11/Maio a 30/Set/23



Maio-Setembro
MLT: **266 m³/s**

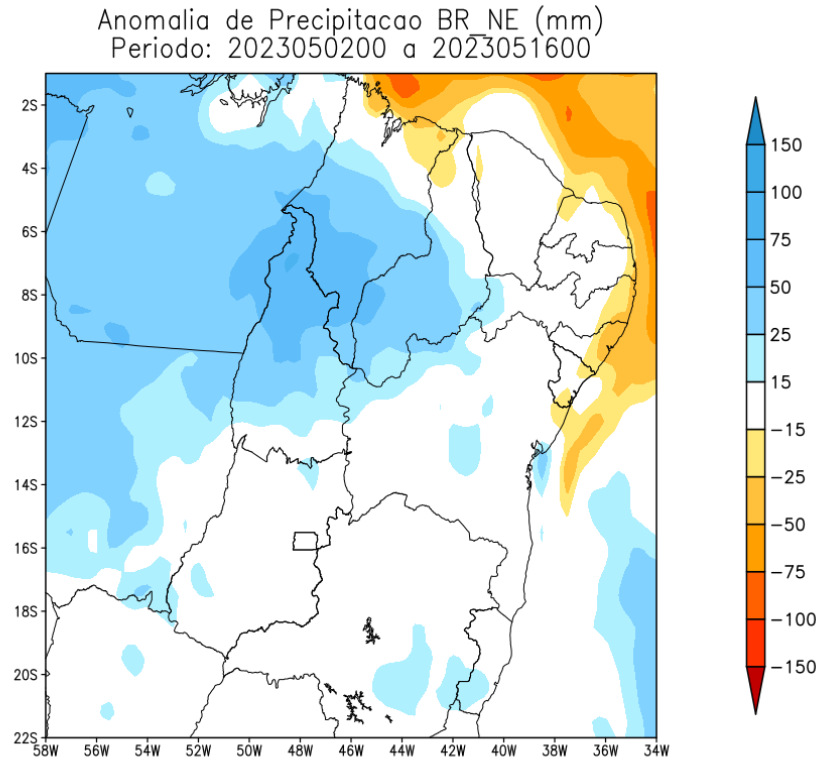
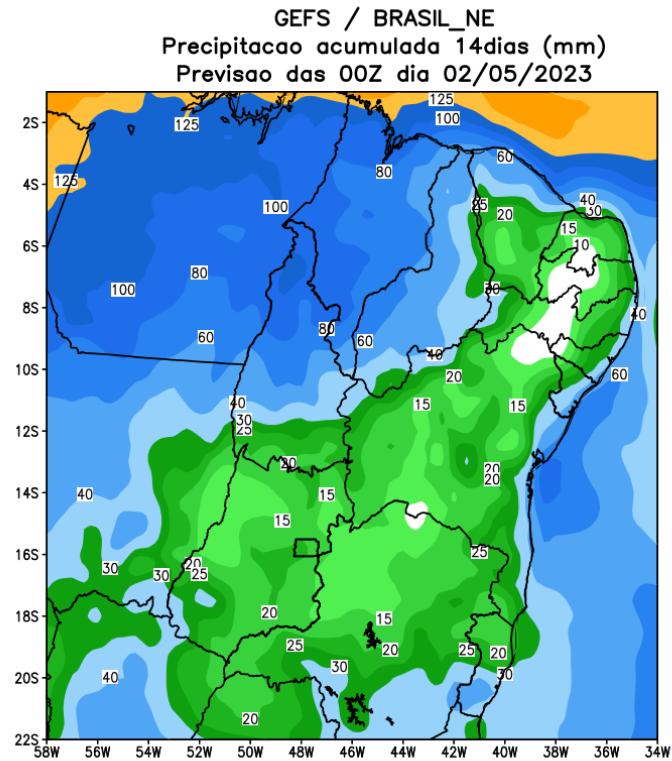
Vazão	% MLT
199 m³/s	75%
182 m³/s	68%
166 m³/s	63%
142 m³/s	53%

Tendência para a 2a semana



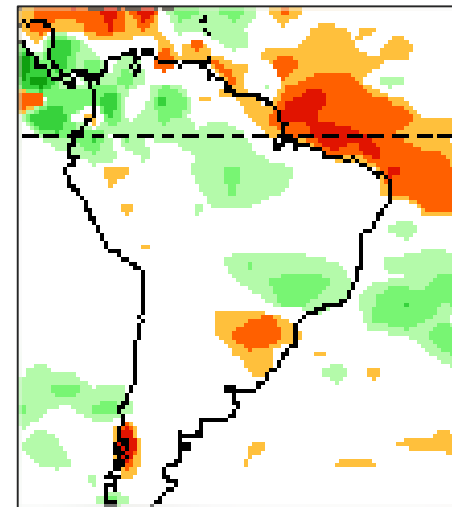
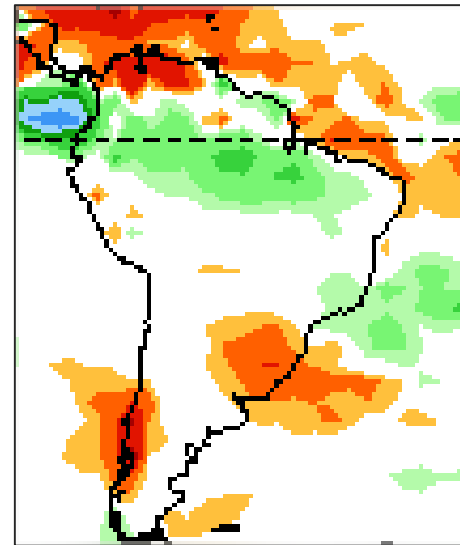
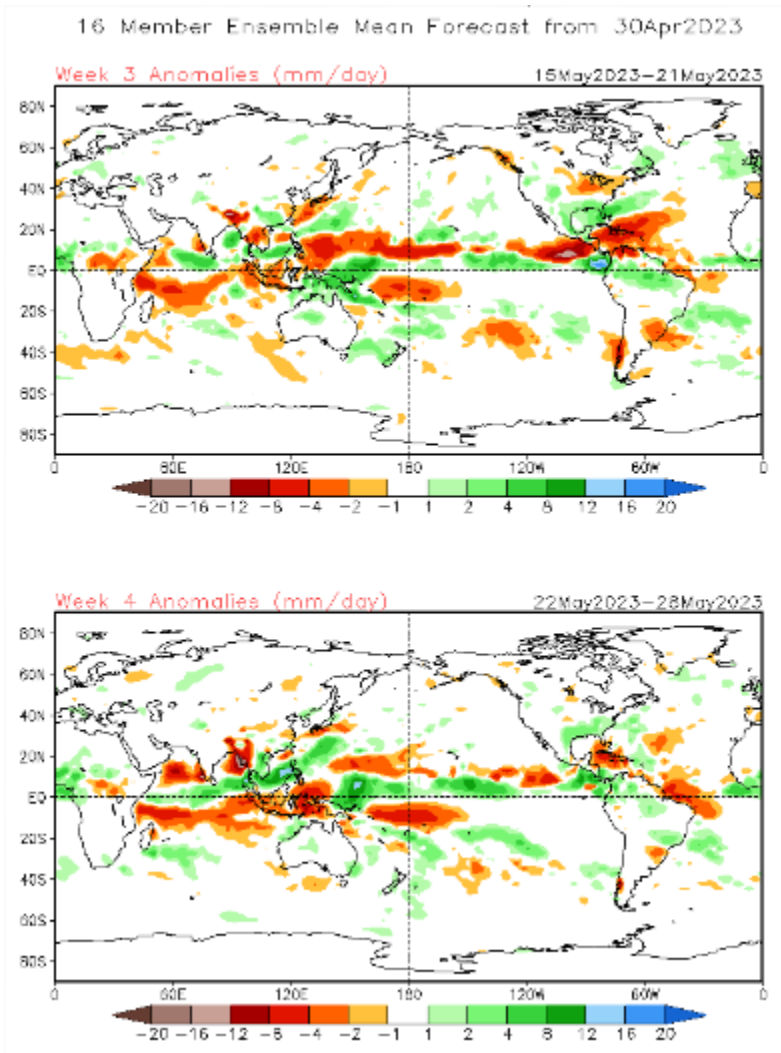
Modelo GFS/NOAA

Tendência para as duas próximas semanas



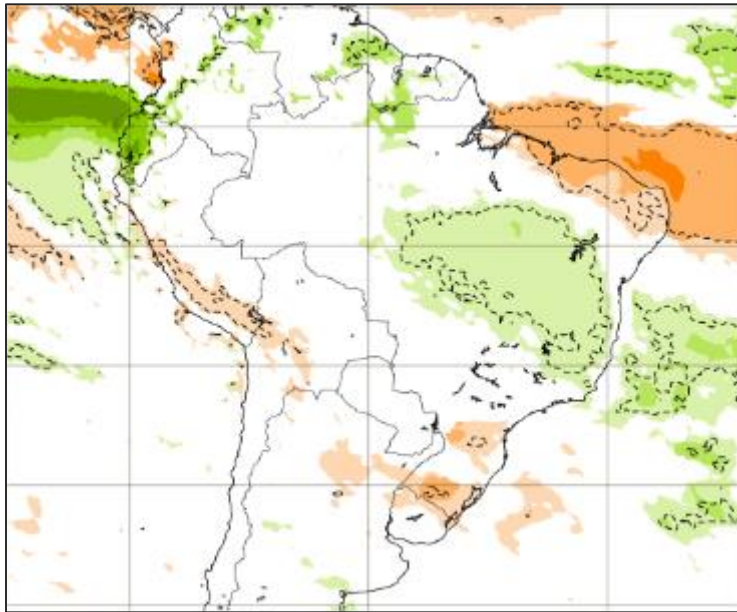
Modelo GFS/NOAA

Tendência 3a e 4a semanas

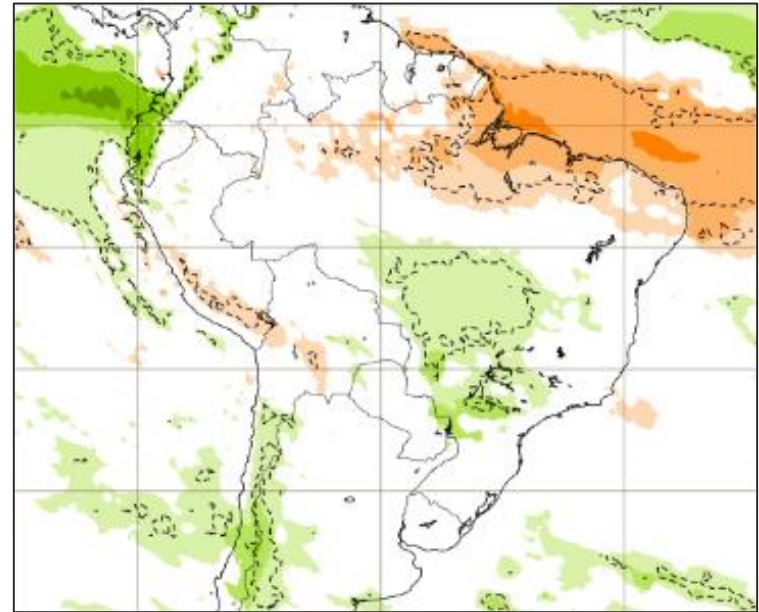


Tendência para 3ª e 4ª semanas

14-22/05

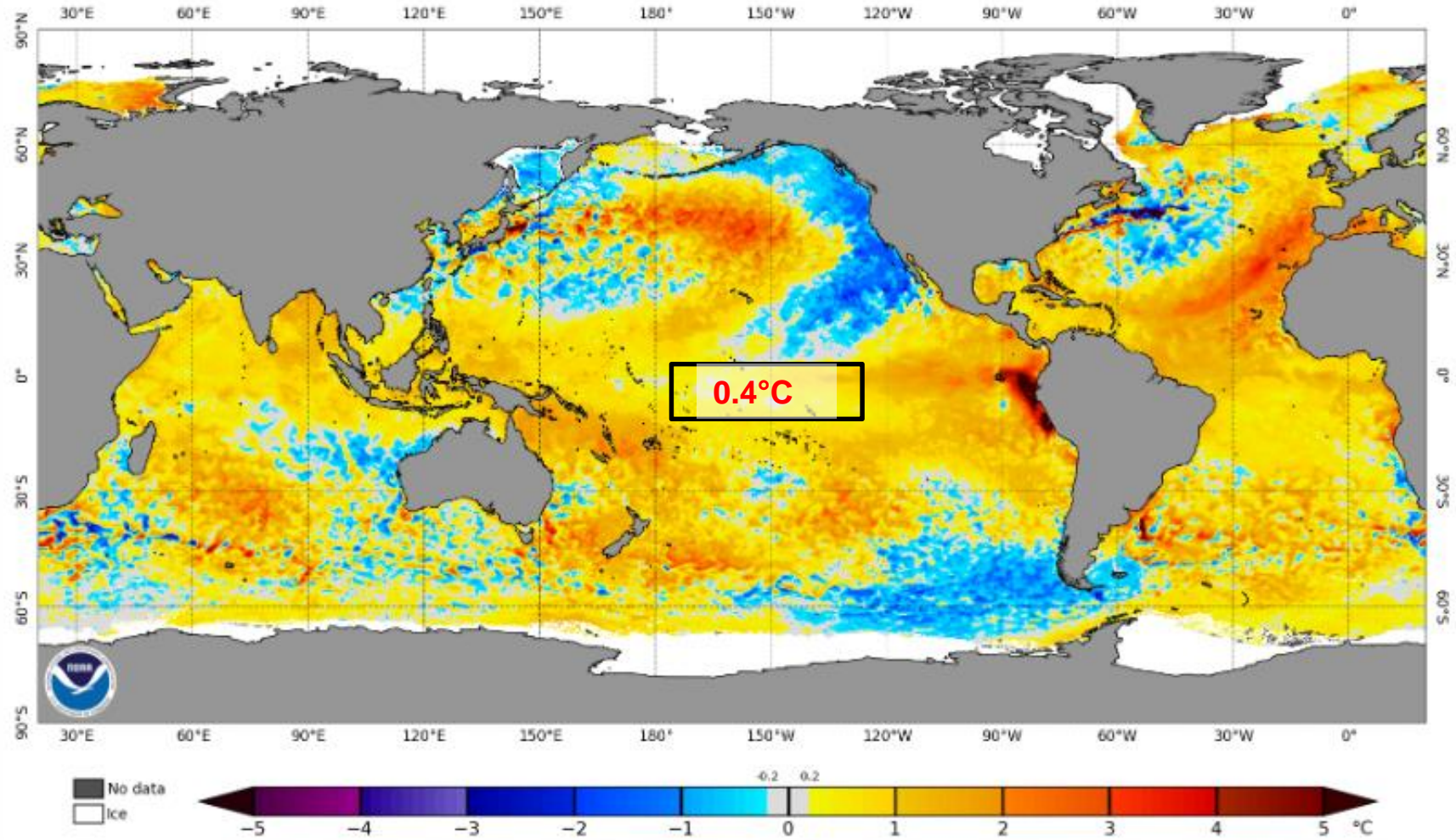


22-29/05



Status Atual: Neutralidade

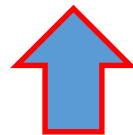
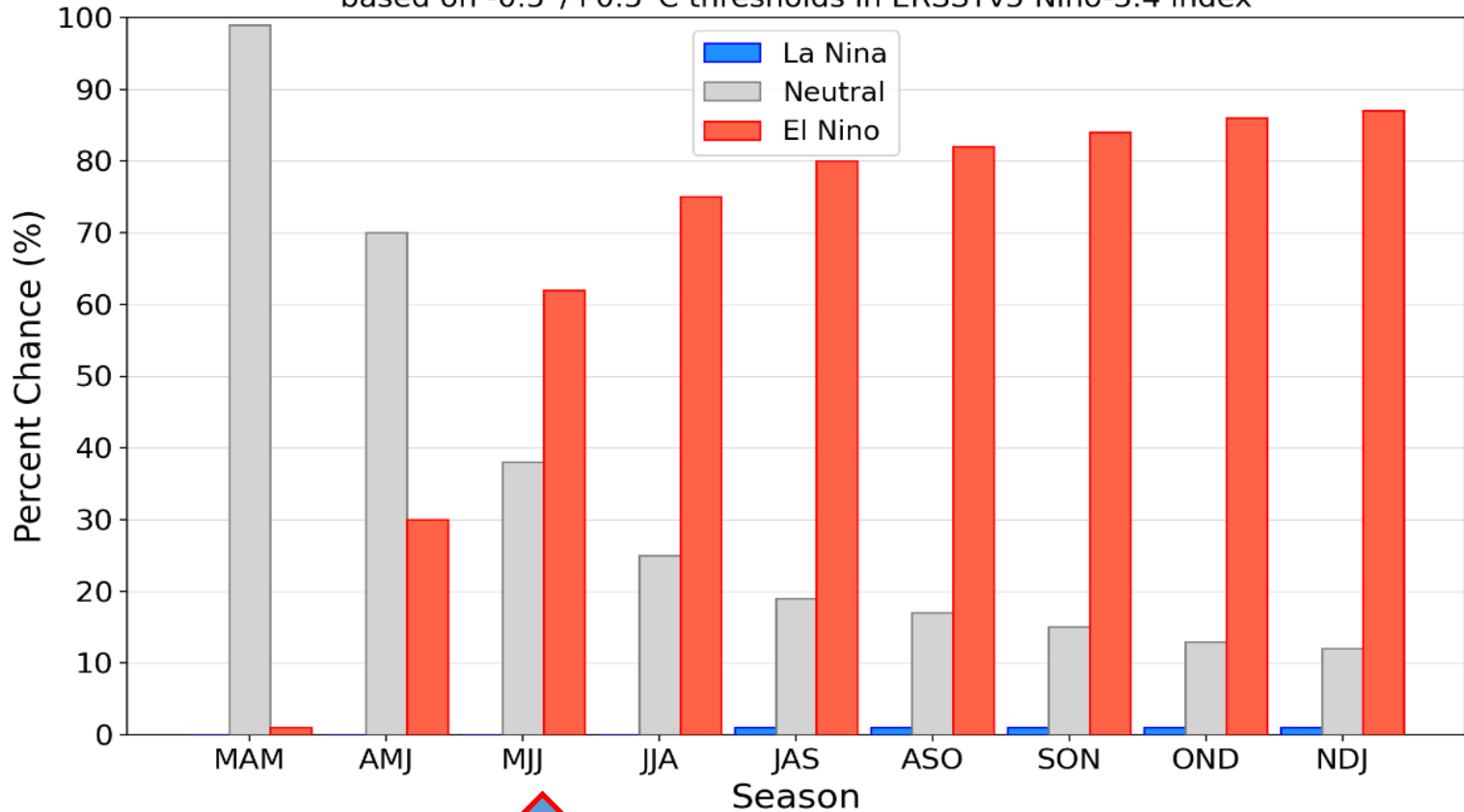
NOAA Coral Reef Watch Daily 5km SST Anomalies (v3.1) 30 Apr 2023



Previsão do “ENSO”

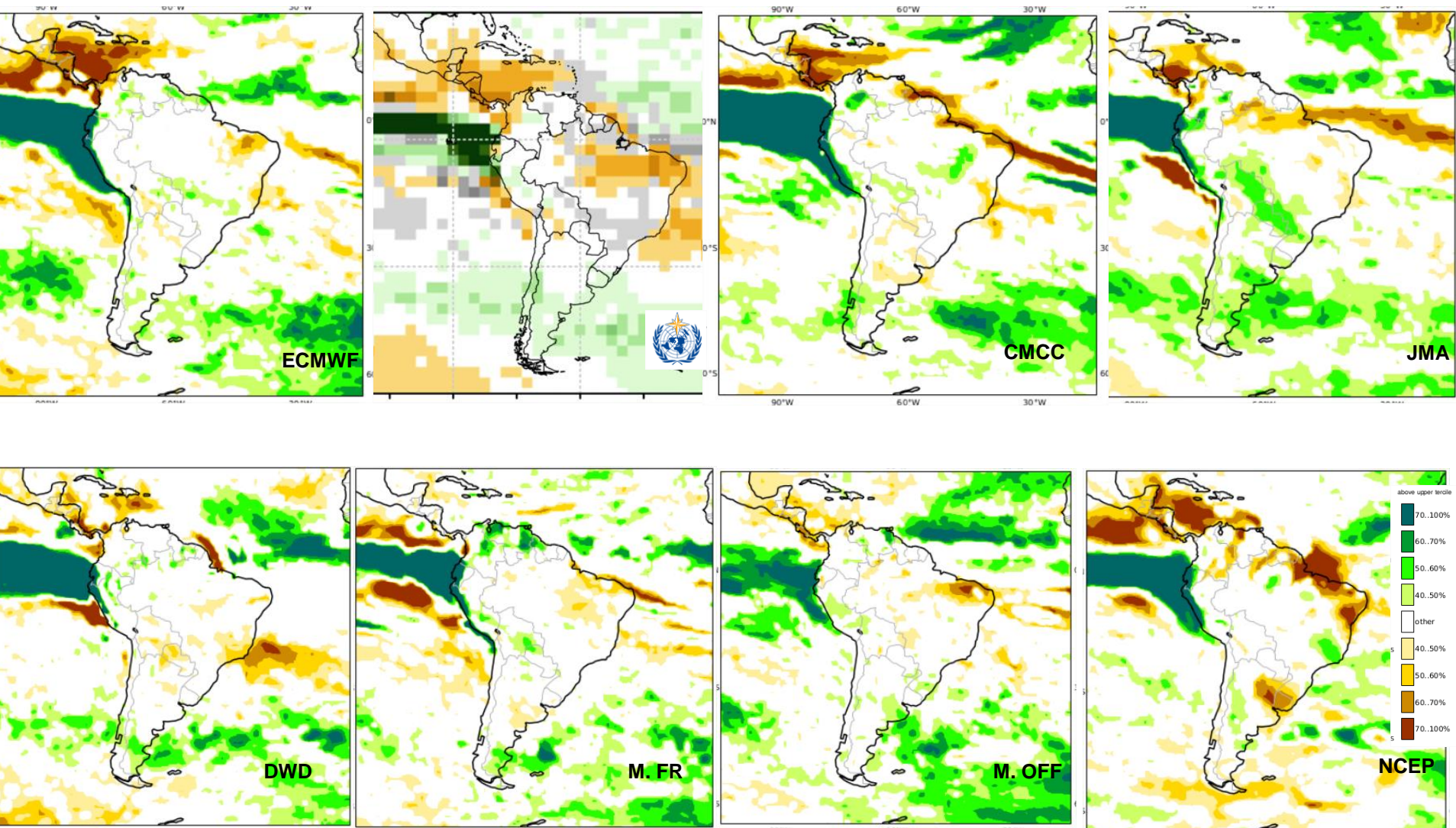
Official NOAA CPC ENSO Probabilities (issued Apr. 2023)

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



Status Atual: **Neutralidade**

Previsão sazonal de Chuva MJJ



Previsão Multi Modelo MJJ

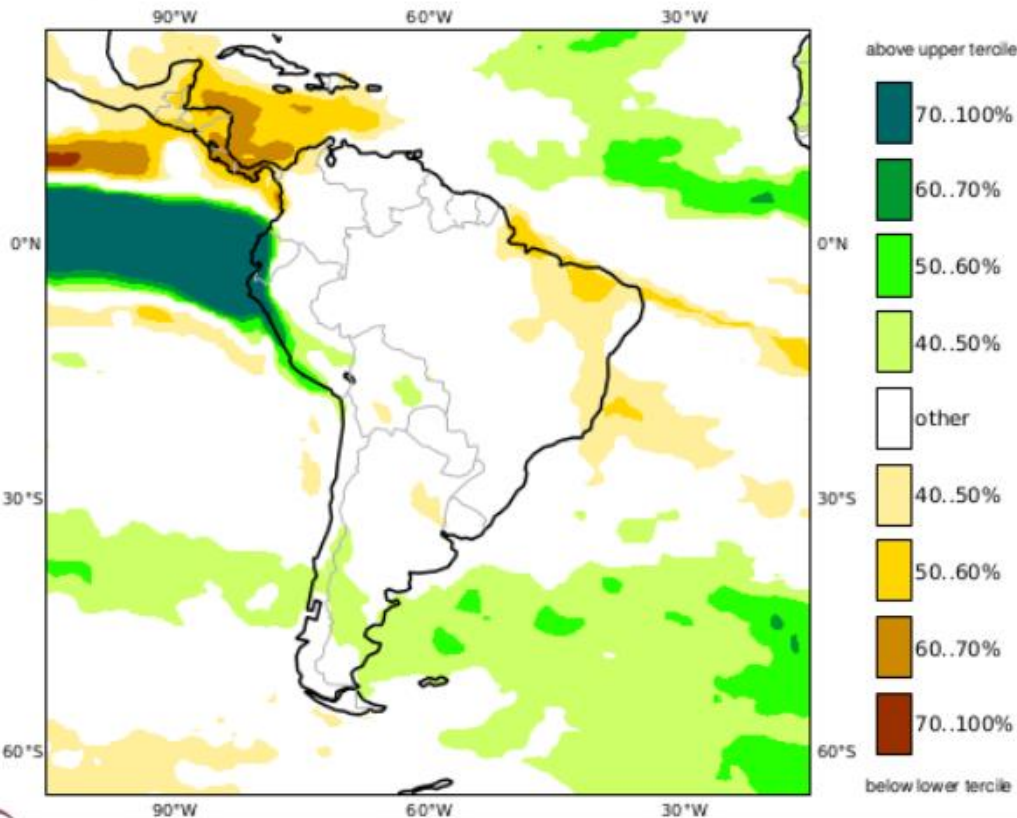
C3S multi-system seasonal forecast

Prob(most likely category of precipitation)

Nominal forecast start: 01/04/23

Unweighted mean

MJJ 2023



NMME Precipitation Anomalies (mm/day)

May2023-Jul2023

April2023 initial conditions

