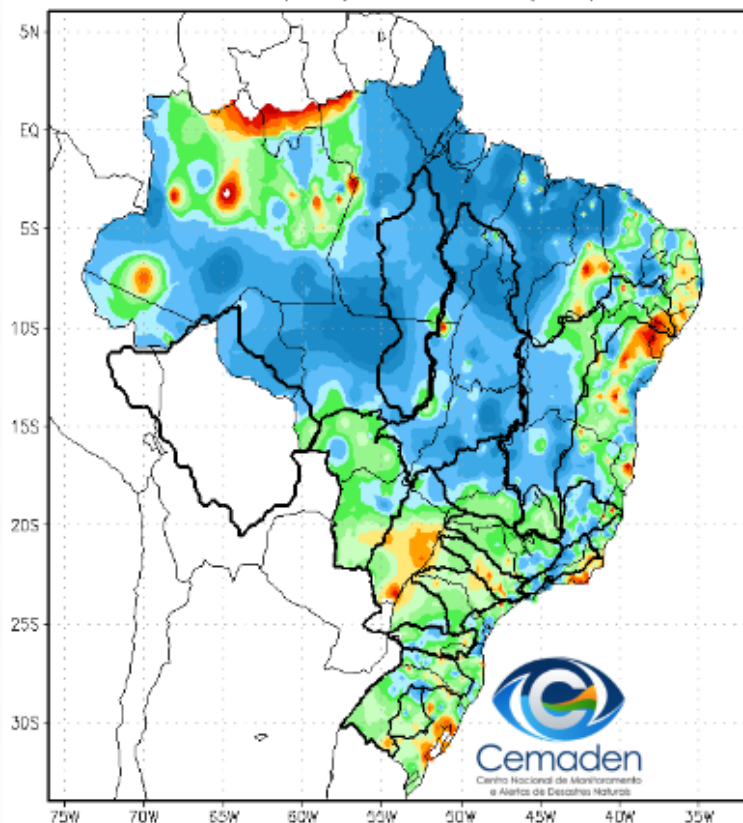


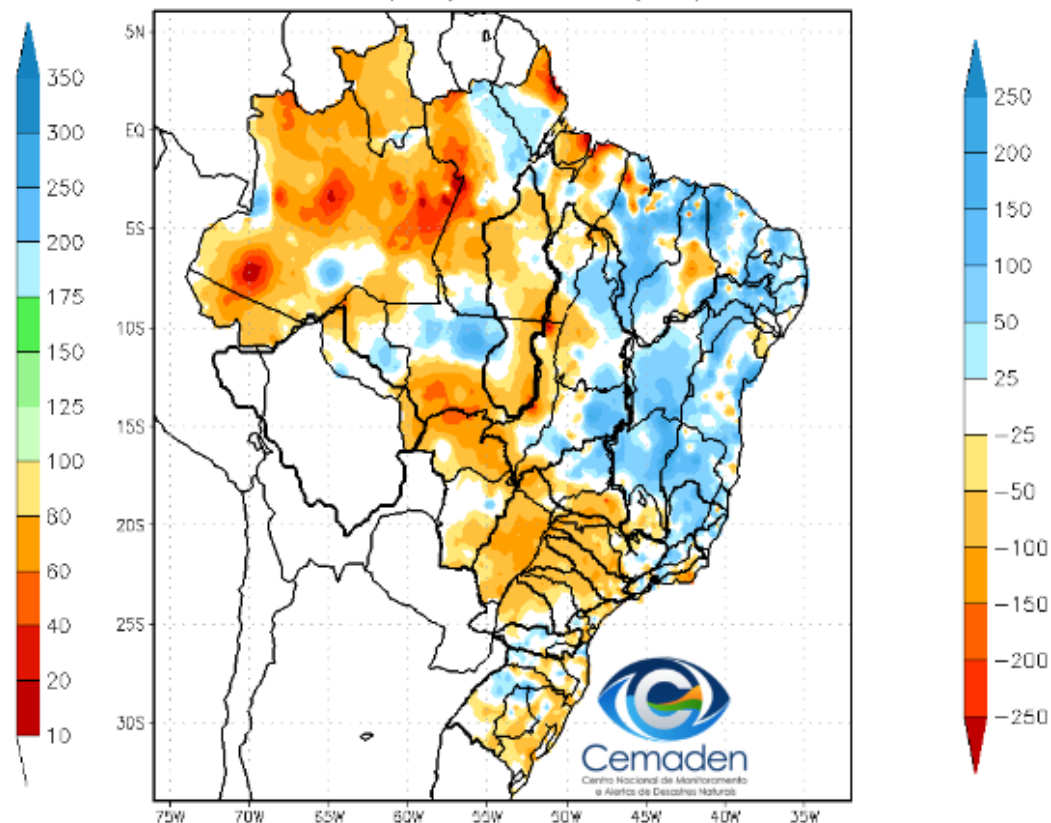
# Monitoramento, Previsões e Projeções para a Bacia do Rio São Francisco

## Chuva dos últimos 30 dias

Precipitacao Acumulada (mm) A.S.  
Período: 03/02/2024 a 04/03/2024

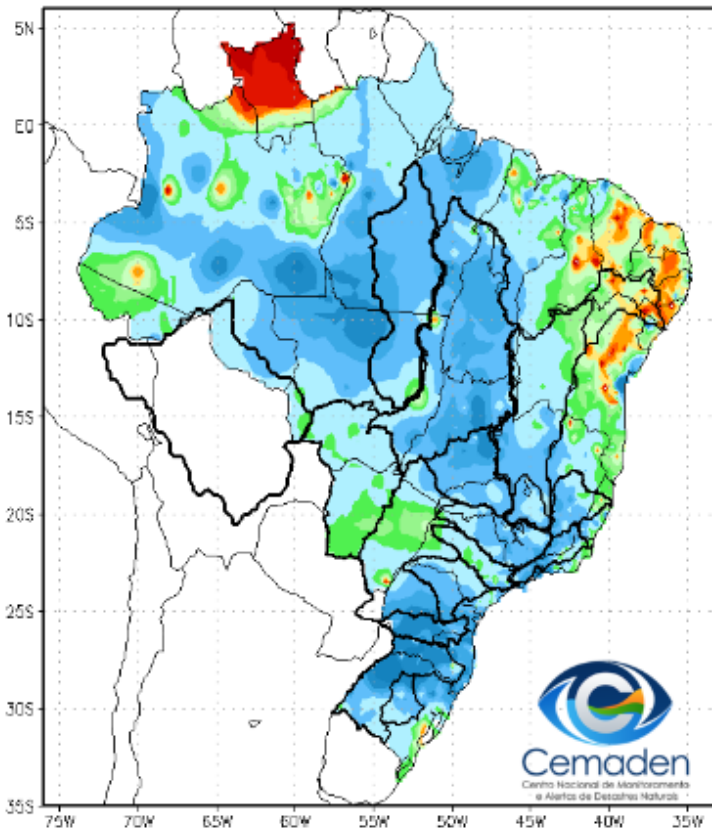


Anomalia de Precipitacao (mm) A.S.  
Período: 03/02/2024 a 04/03/2024

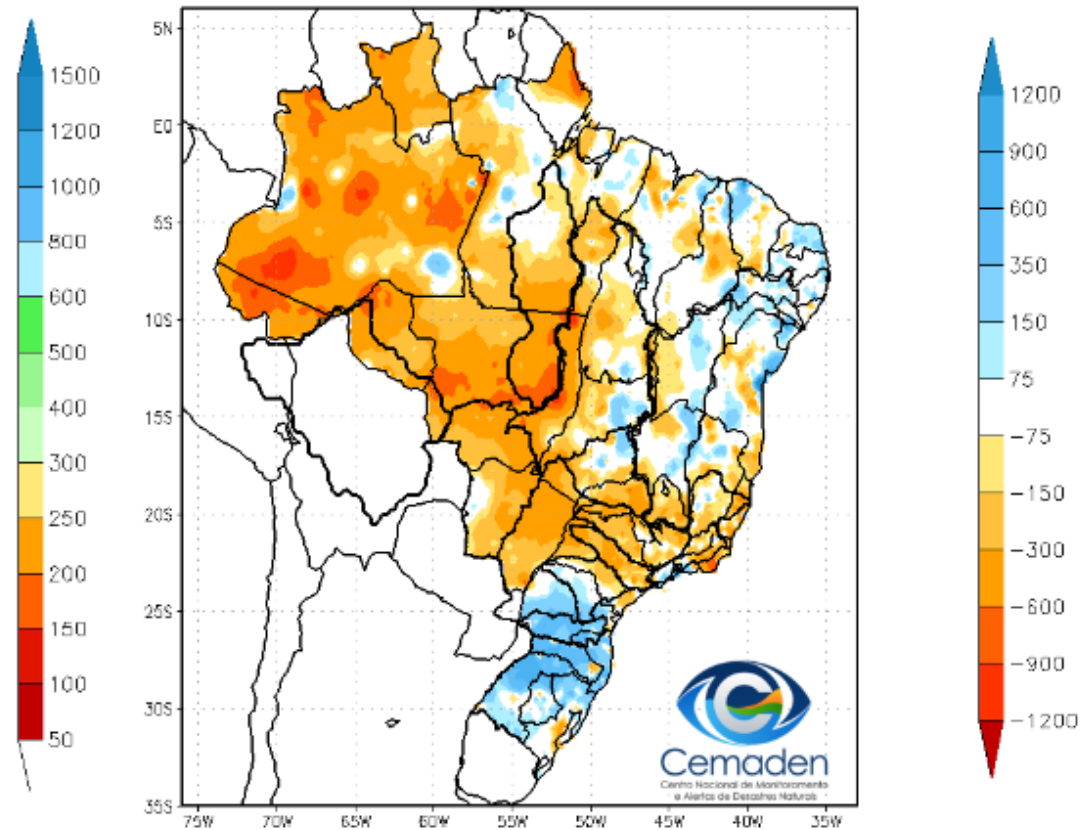


# Chuva no Ano Hidrológico - desde 01/10/2023

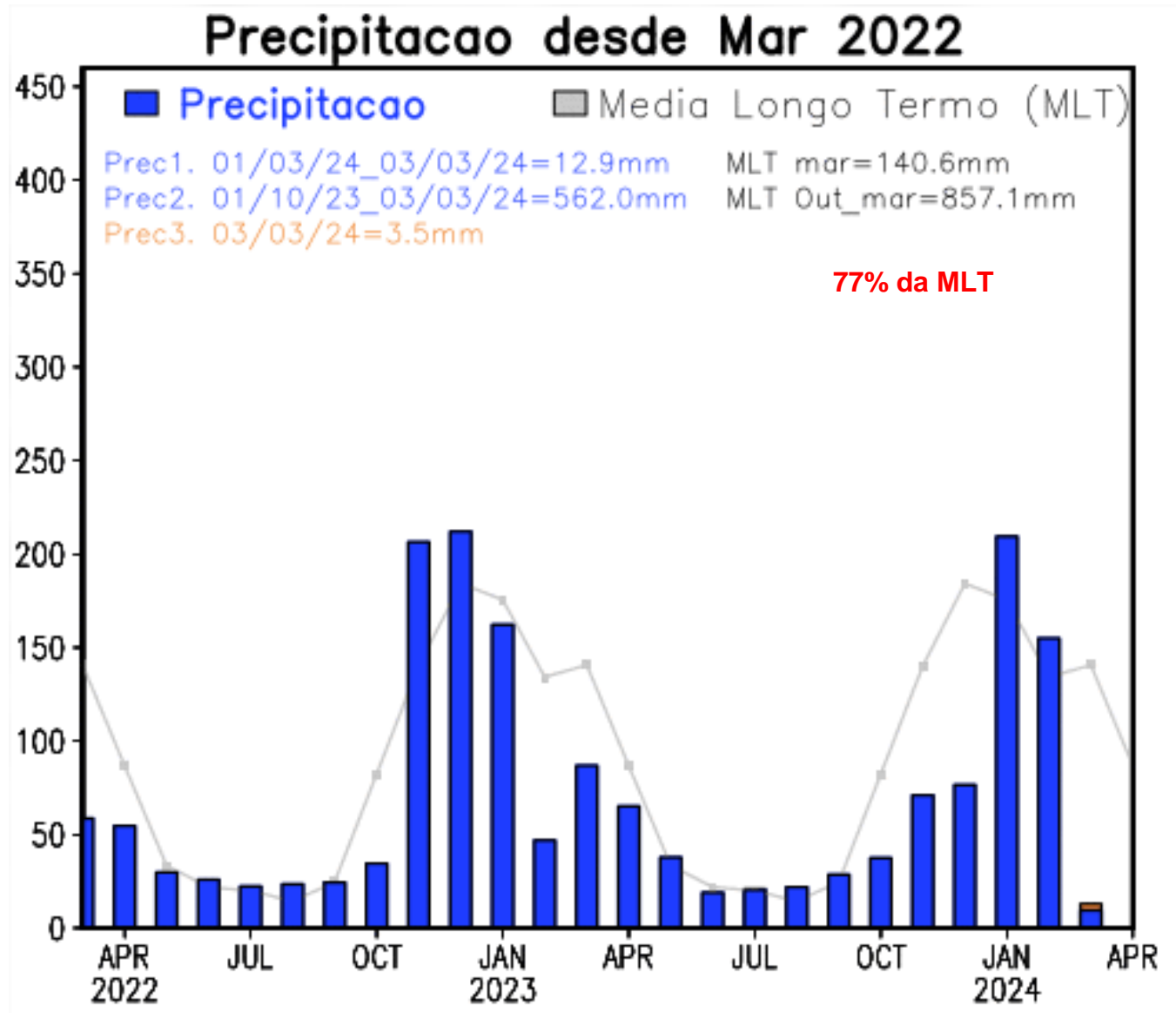
Precipitacao Acumulada (mm) A.S.  
Período: 01/10/2023 a 04/03/2024



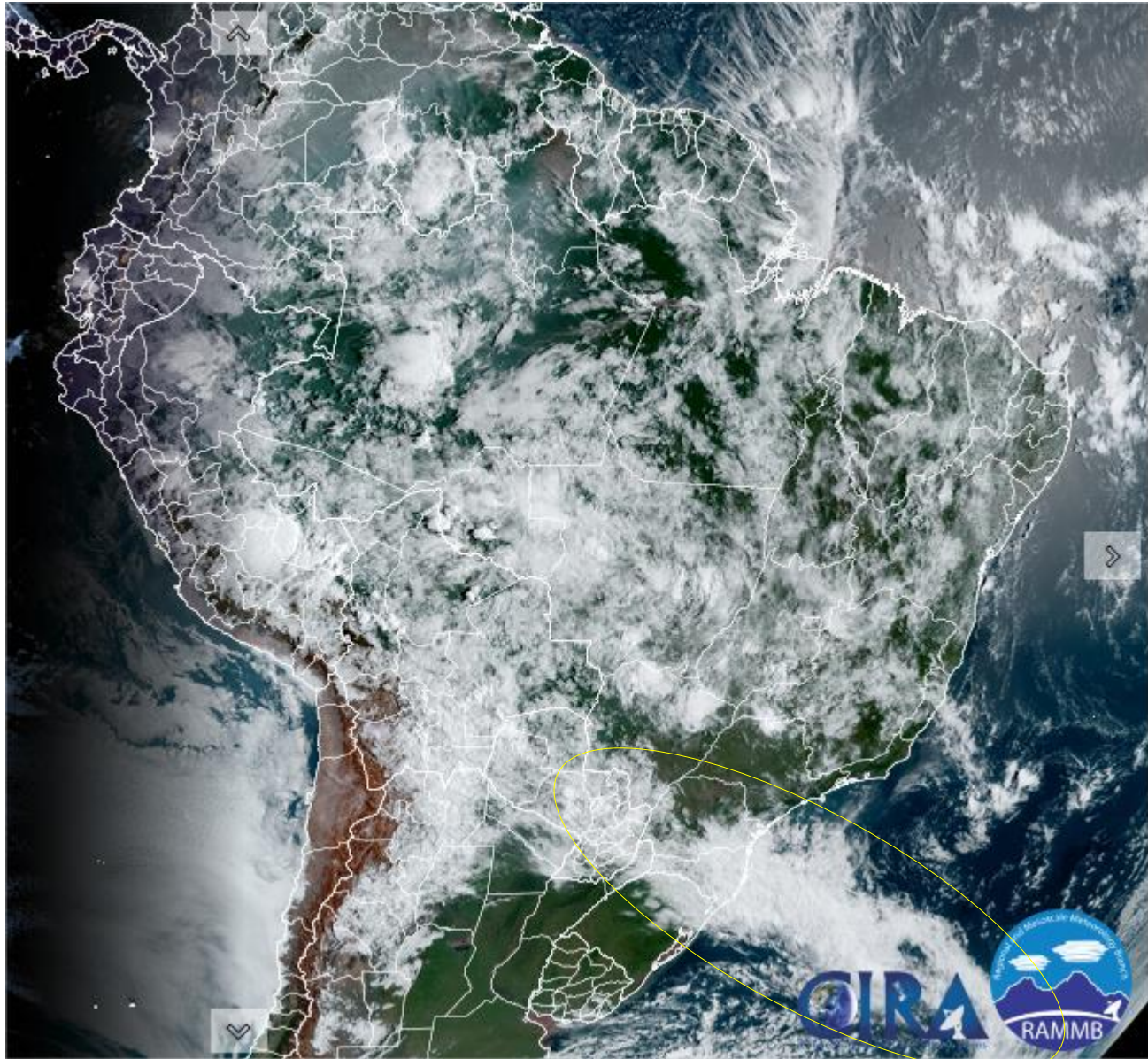
Anomalia de Precipitacao (mm) A.S.  
Período: 01/10/2023 a 04/03/2024



# Bacia do rio São Francisco

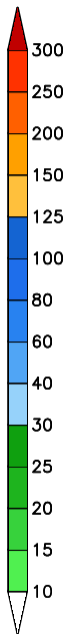
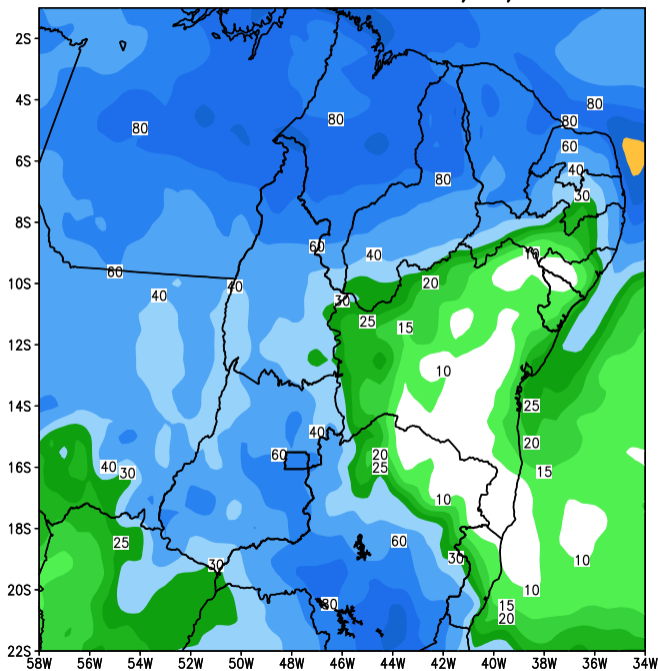


# Situação meteorológica atual

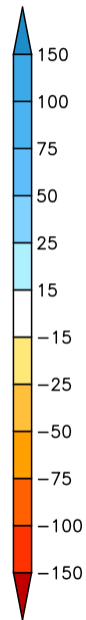
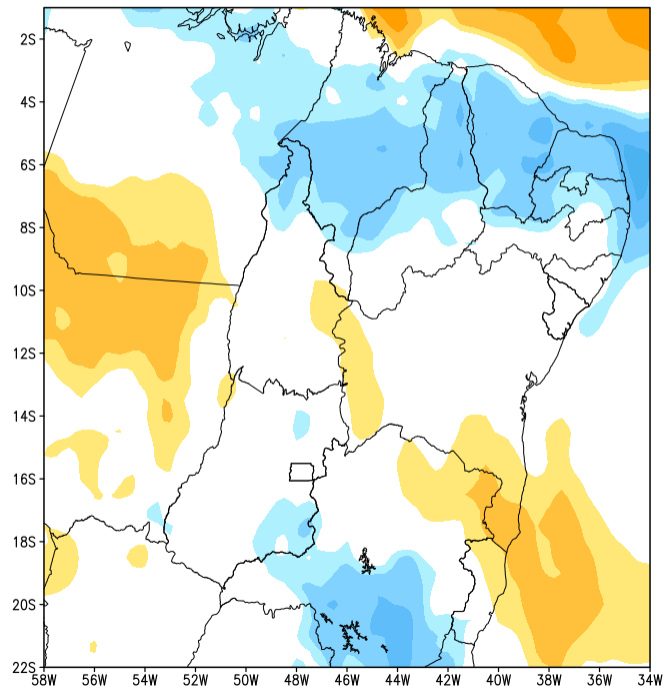


# Previsão de chuva próximos 7 dias

GEFS / BRASIL\_NE  
Precipitacao acumulada 1aSem (mm)  
Previsao das 12Z dia 04/03/2024



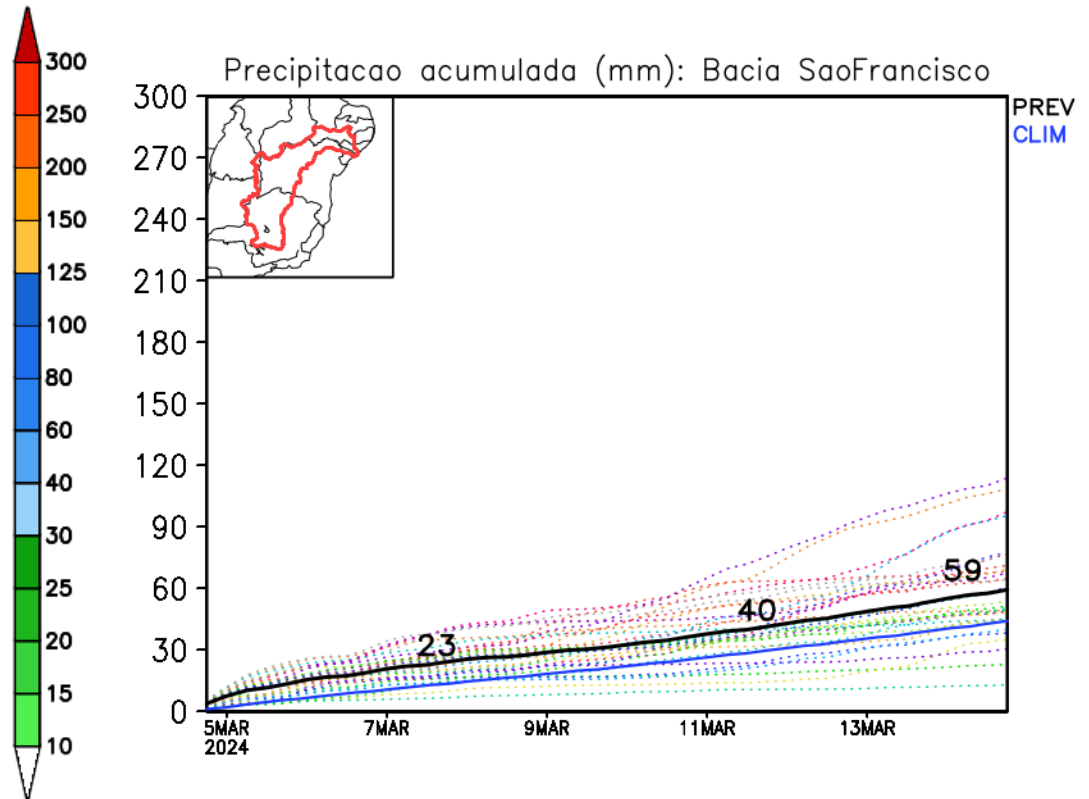
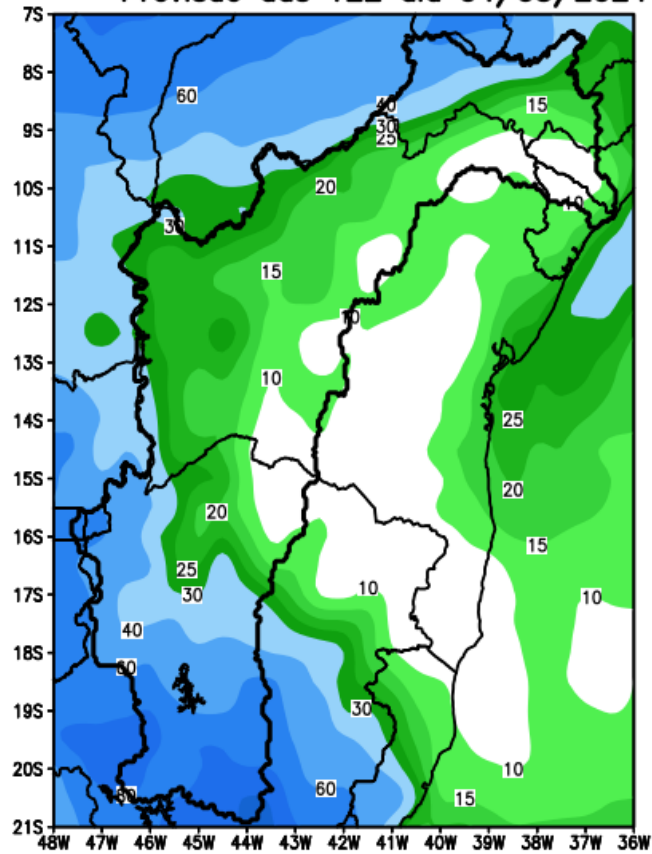
Anomalia de Precipitacao BR\_NE (mm)  
Periodo: 2024030412 a 2024031112



Fonte: GEFS/NOAA

# Bacia do rio São Francisco

GEFS / Bacia do Rio Sao Francisco  
Precipitacao acumulada em 7 dias (mm)  
Previsao das 12Z dia 04/03/2024

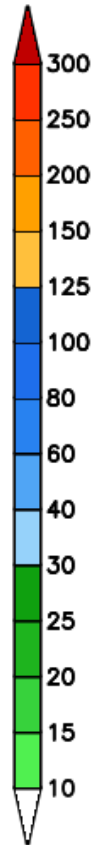
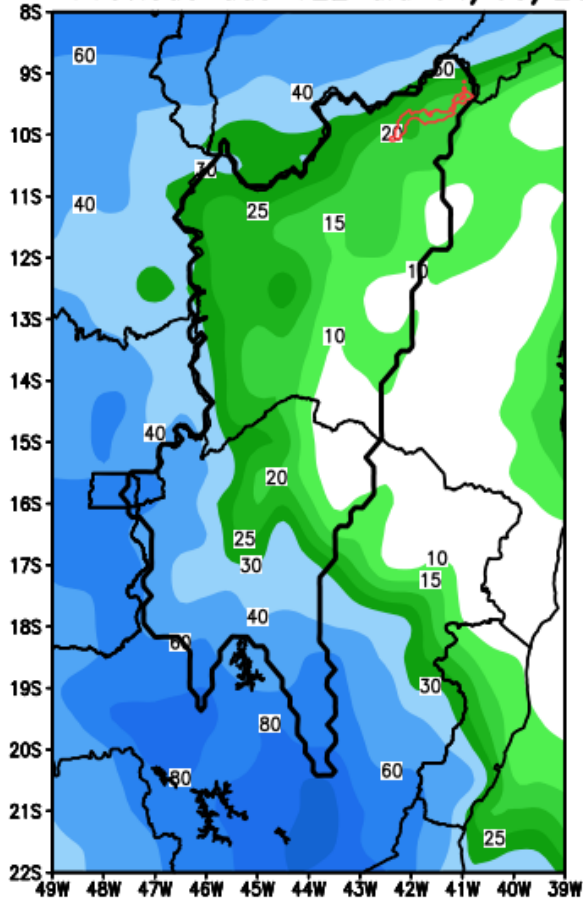


# Bacia de Sobradinho

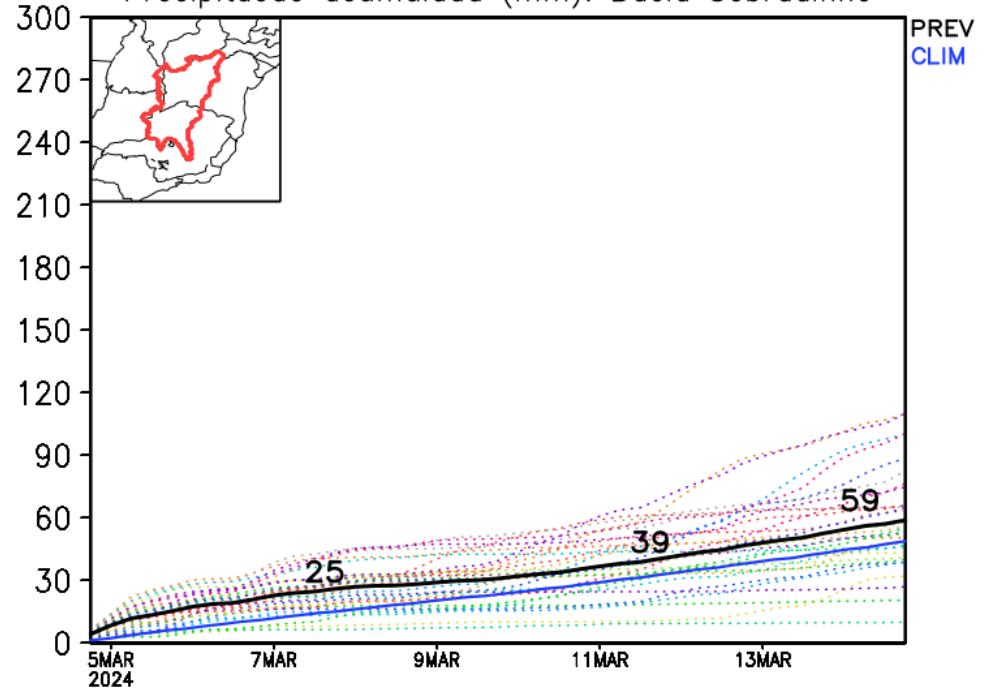
GEFS / Sobradinho

Precipitacao acumulada em 7 dias (mm)

Previsao das 12Z dia 04/03/2024



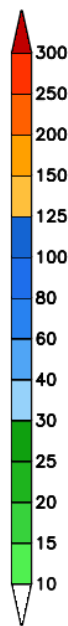
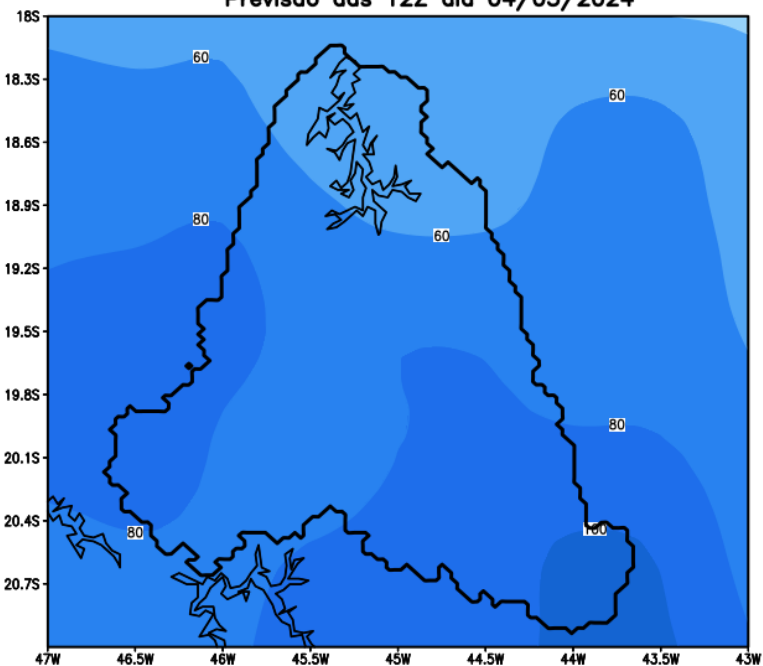
Precipitacao acumulada (mm): Bacia Sobradinho



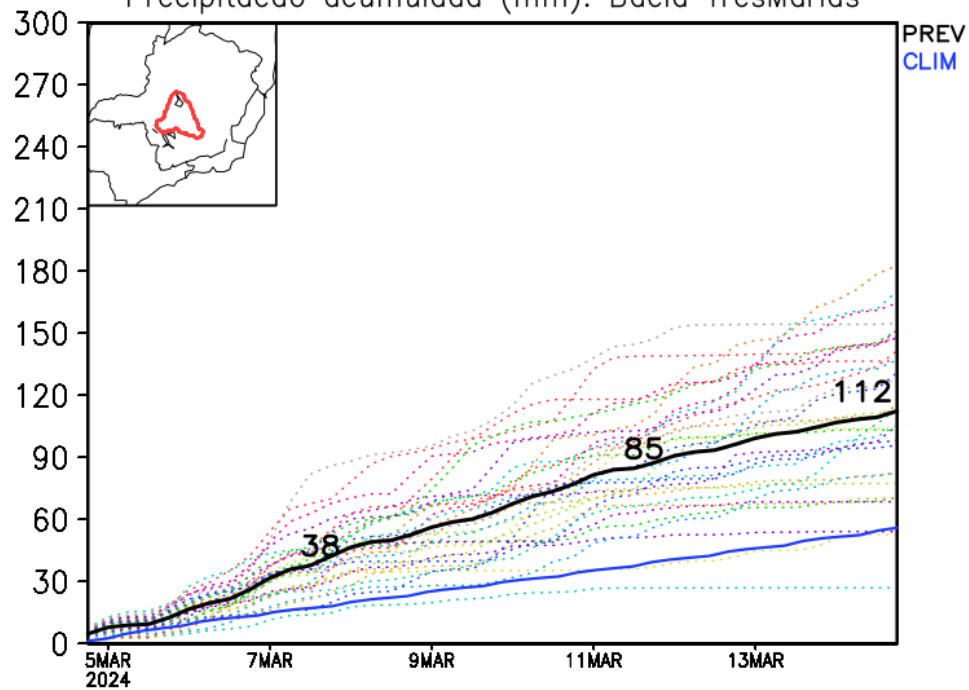


# Bacia de Três Marias

GEFS / Tres Marias  
Precipitacao acumulada em 7 dias (mm)  
Previsao das 12Z dia 04/03/2024

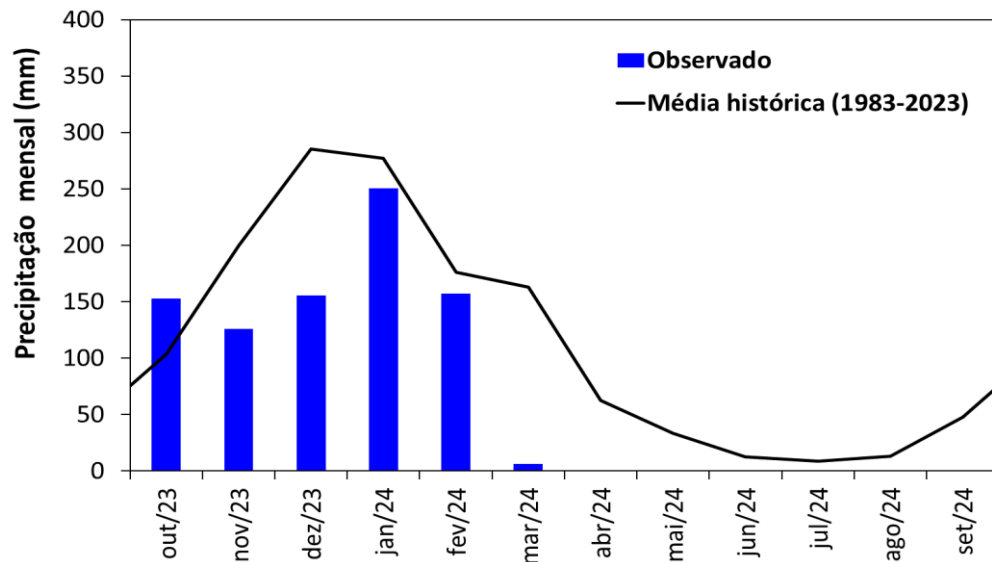


Precipitacao acumulada (mm): Bacia TresMarias



# Monitoramento UHE Três Marias

## Precipitação



### Estação Chuvosa - Out a Mar - 1205 mm

2022/2023: 1288 mm (107% da MLT)

2023/2024\*: 848 mm (83% da MLT PARCIAL)

### Estação Seca - Abr a Set - 178 mm

2022: 116 mm (65% da MLT)

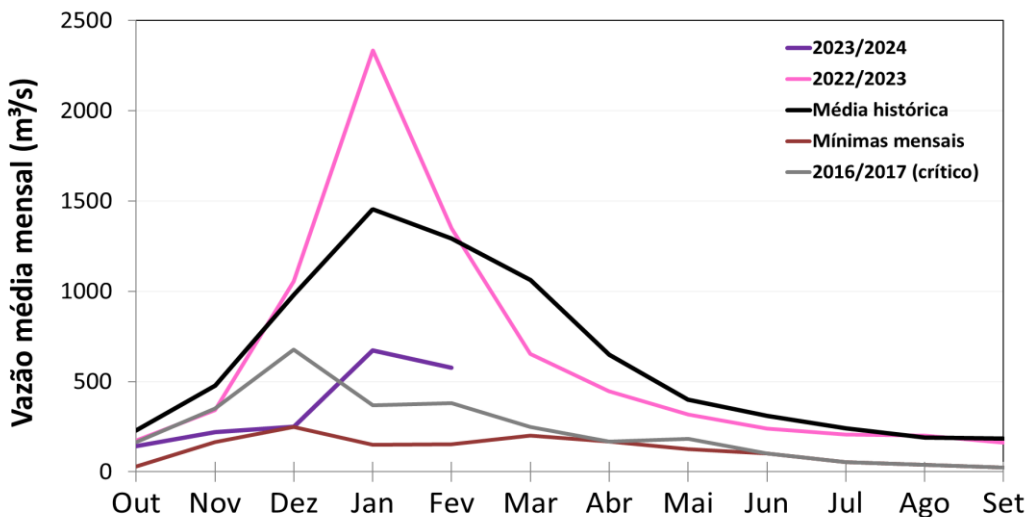
2023: 142 mm (79% da MLT)

Fev/24: 157 mm (89% da MLT)

Mar/24\*: 7 mm (44% da MLT PARCIAL)

\*Até 03/03/2024

## Vazão



### Estação Chuvosa - Nov a Abr - 986 m³/s

2022/2023: 1029 m³/s (104% da MLT)

2023/2024\*: 437 m³/s (44% da MLT)

### Estação Seca - Maio a Out - 259 m³/s

2022: 250 m³/s (96% da MLT)

2023: 211 m³/s (82% da MLT)

Fev/24: 575 m³/s (45% da MLT)

03/Mar/24: 433 m³/s (41% da MLT)

\*Até 03/03/2024

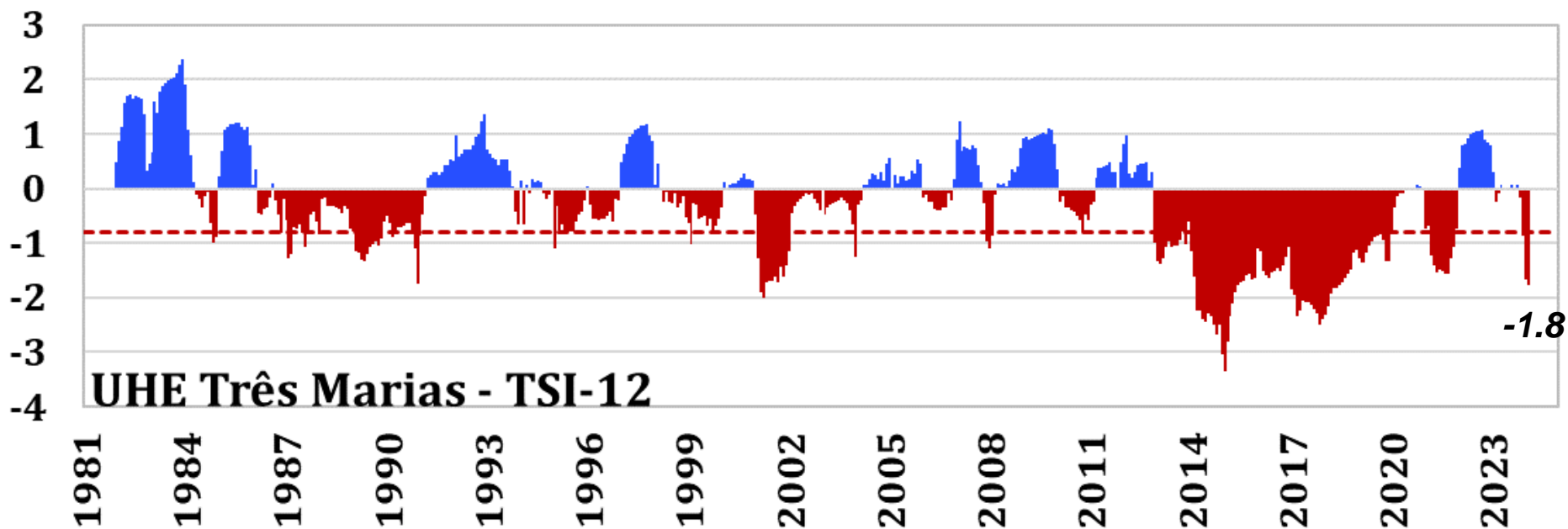
MLT: Média de Longo Termo (1983-2023)

Dados de precipitação: INMET, ANA, CEMADEN.

Dados de vazão: ONS e ANA.

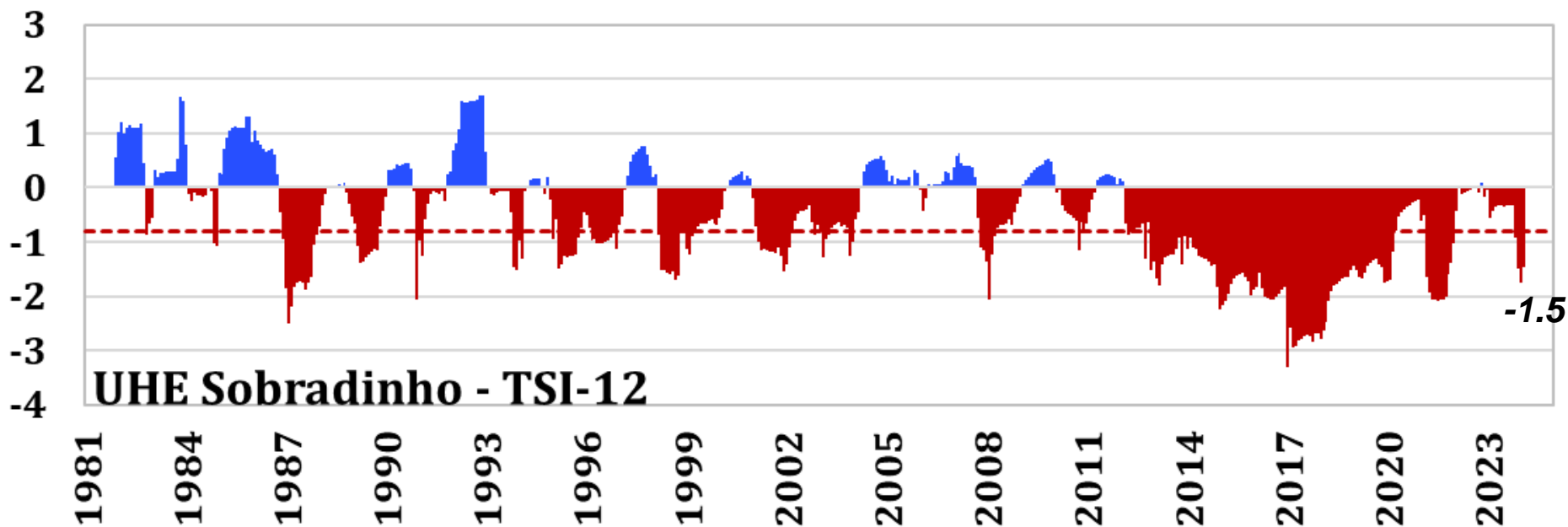
**Seca Hidrológica Extrema**

**Índice Padronizado Bivariado (Chuva-Vazão) - TSI-12**

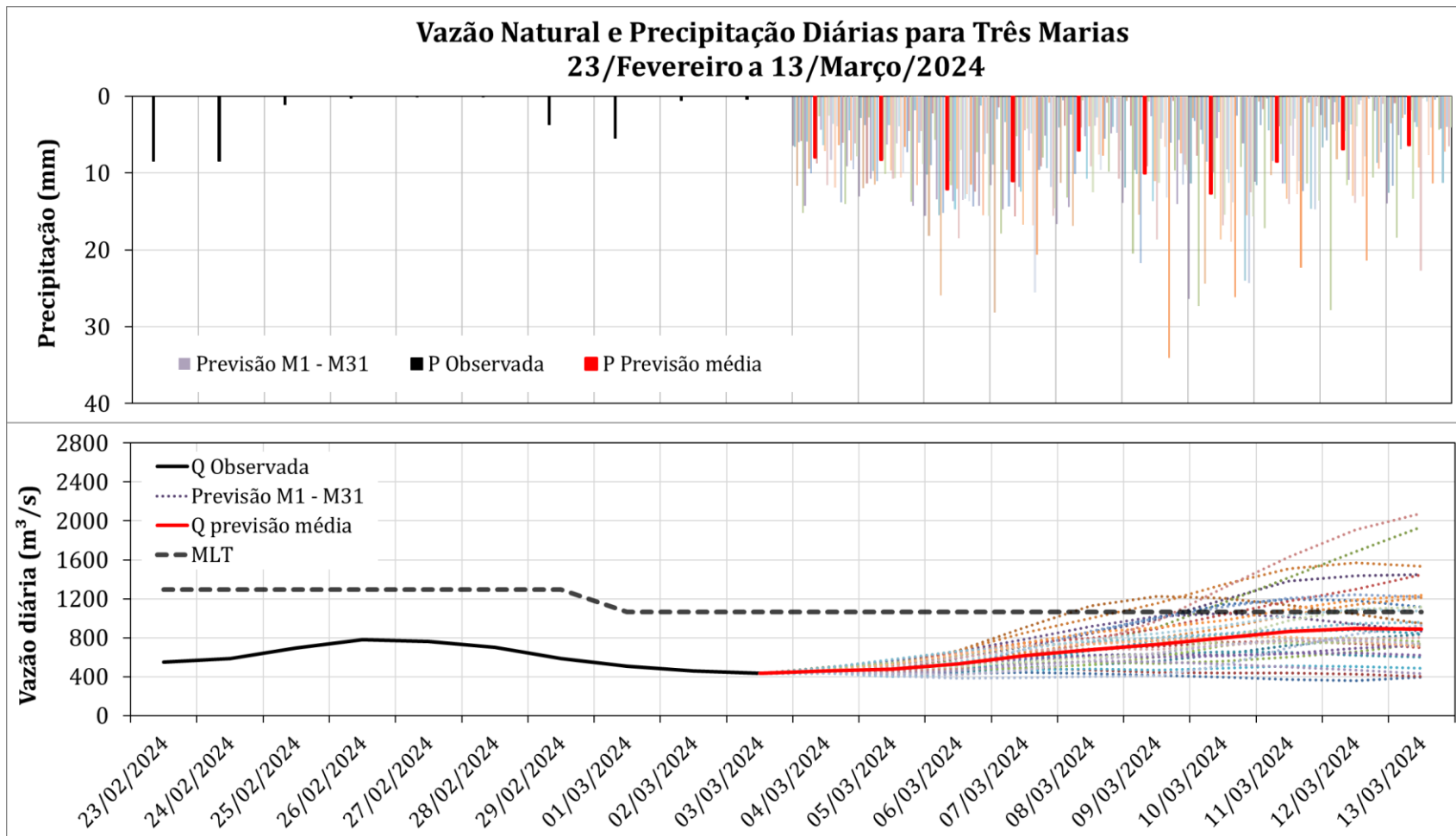


**Seca Hidrológica Severa**

**Índice Padronizado Bivariado (Chuva-Vazão) - TSI-12**



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



Dados **observados de precipitação** (barras pretas) para o período 23/02 a 03/03 e **previsão** para o período de 04 a 13/03

Dados **observados de vazão** (linha preta) para o período 23/02 a 03/03 e **previsão** para o período de 04 a 13/03

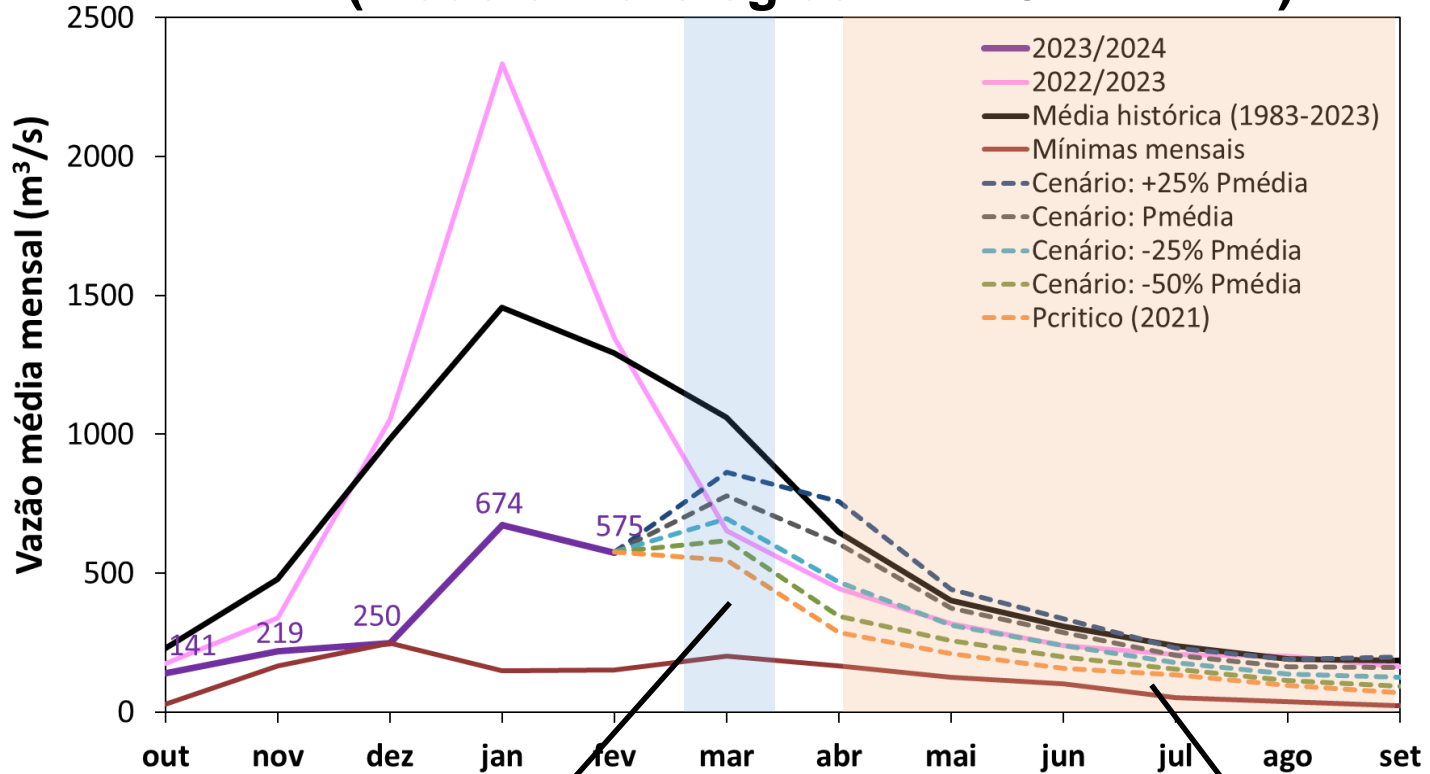
As barras coloridas correspondem às previsões da chuva para os 31 membros GEFS/NOAA e à média destes membros.

As linhas coloridas representam os membros de previsão de vazão.

**Previsão média para os próximos 10 dias: 693 m<sup>3</sup>/s**

**65% da MLT de Março**

# Três Marias: Projeção de Vazão (Modelo hidrológico PDM-CEMADEN)



**Março (Mês chuvoso)**

**MLT: 1062 m³/s**

| Vazão    | % MLT |
|----------|-------|
| 864 m³/s | 81%   |
| 779 m³/s | 73%   |
| 696 m³/s | 66%   |
| 546 m³/s | 51%   |

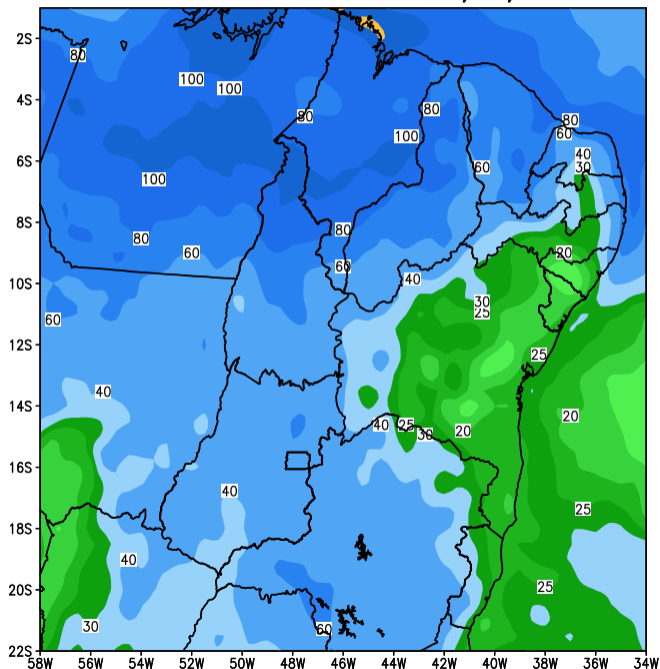
**Abr-Set (Meses secos)**

**MLT: 329 m³/s**

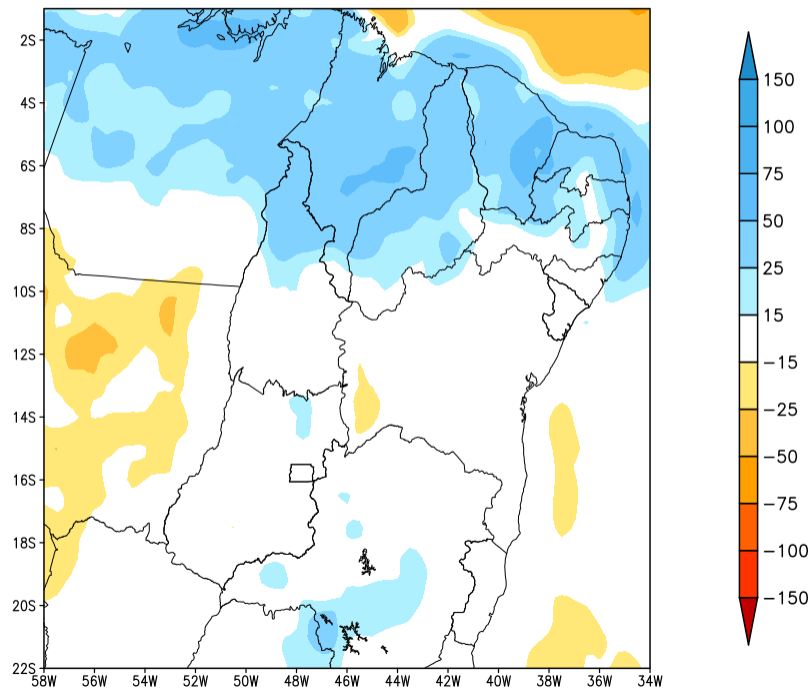
| Vazão    | % MLT |
|----------|-------|
| 359 m³/s | 109%  |
| 299 m³/s | 91%   |
| 244 m³/s | 74%   |
| 160 m³/s | 49%   |

# Tendência para a 2a semana

GEFS / BRASIL\_NE  
Precipitacao acumulada 2aSem (mm)  
Previsao das 12Z dia 04/03/2024



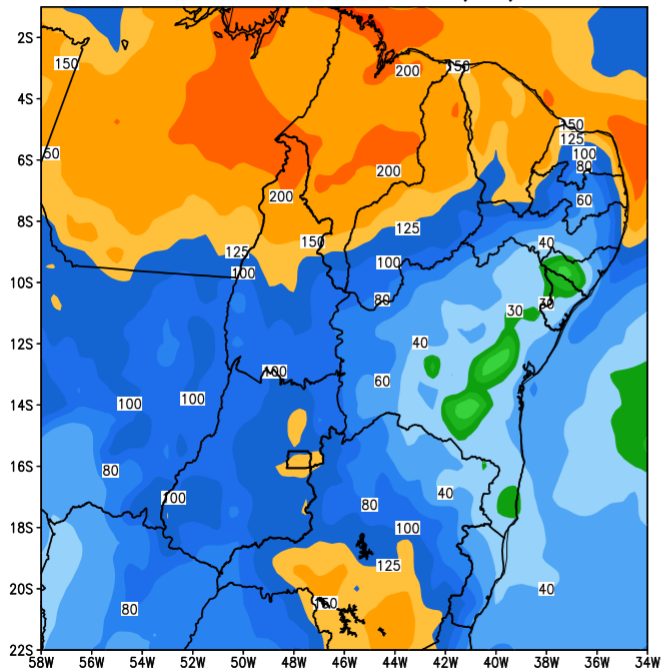
Anomalia de Precipitacao BR\_NE (mm)  
Periodo: 2024031212 a 2024031812



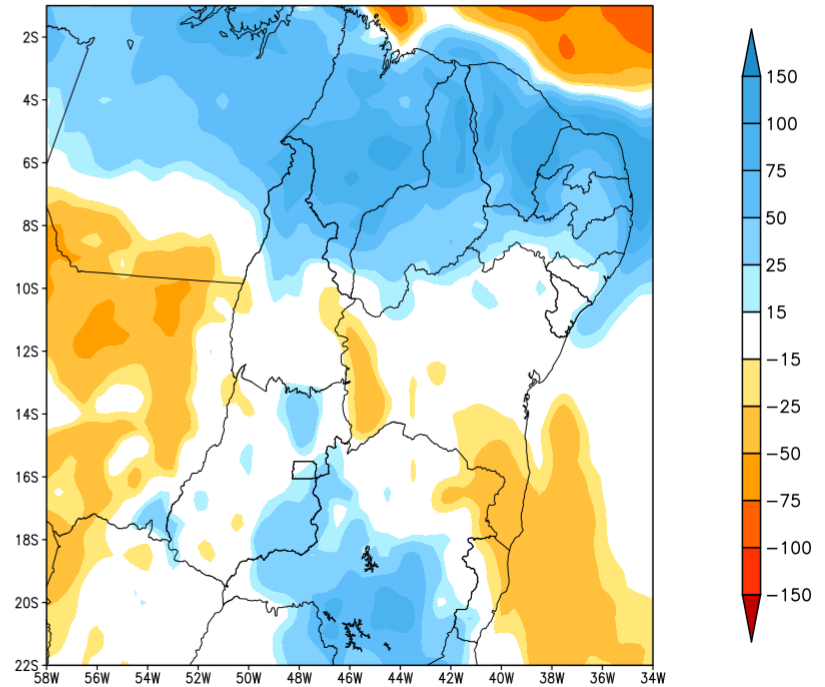
Modelo GFS/NOAA

# Tendência para as duas próximas semanas

GEFS / BRASIL\_NE  
Precipitacao acumulada 14dias (mm)  
Previsao das 12Z dia 04/03/2024



Anomalia de Precipitacao BR NE (mm)  
Periodo: 2024030412 a 2024031812

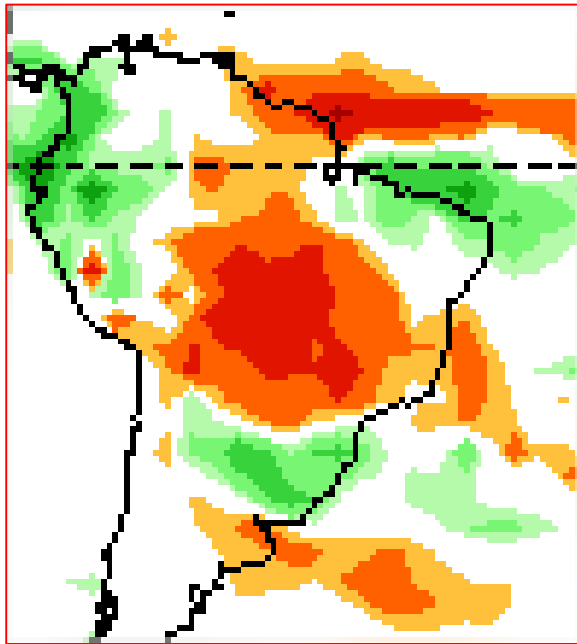


Modelo GFS/NOAA

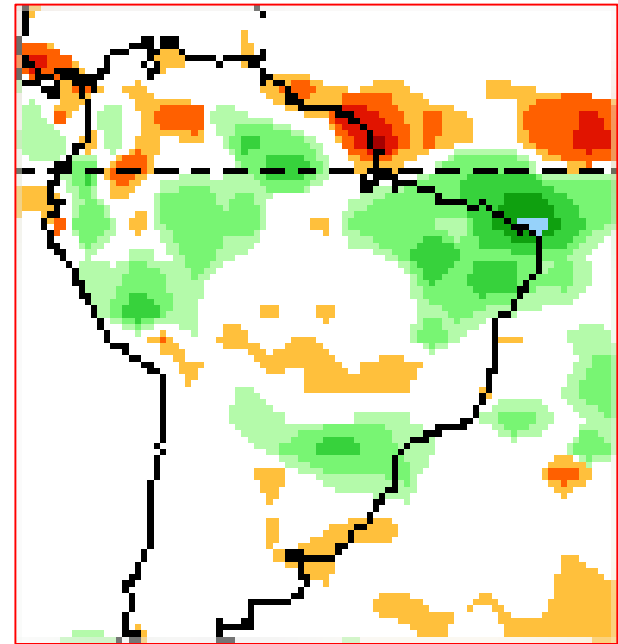


## Tendência 3a e 4a semanas

19-25 MARÇO

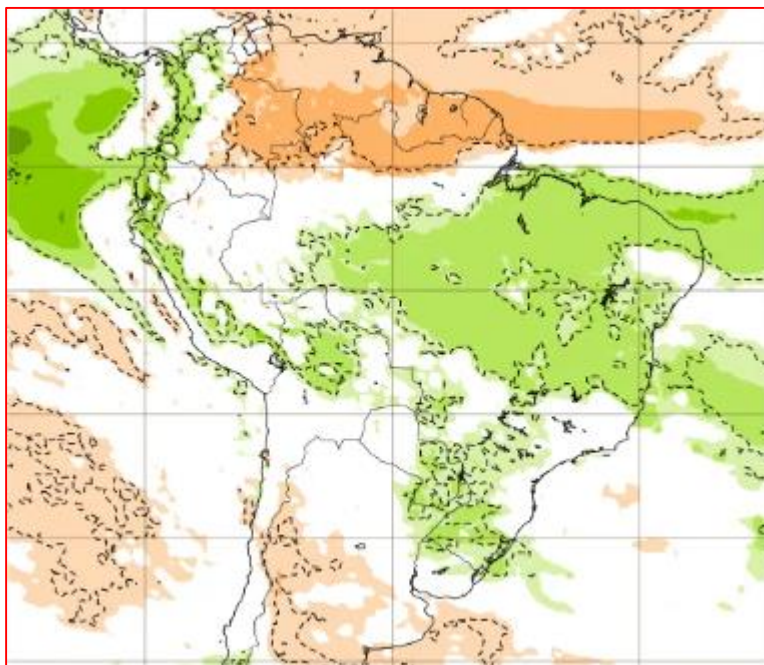


26 MARÇO-01 ABRIL

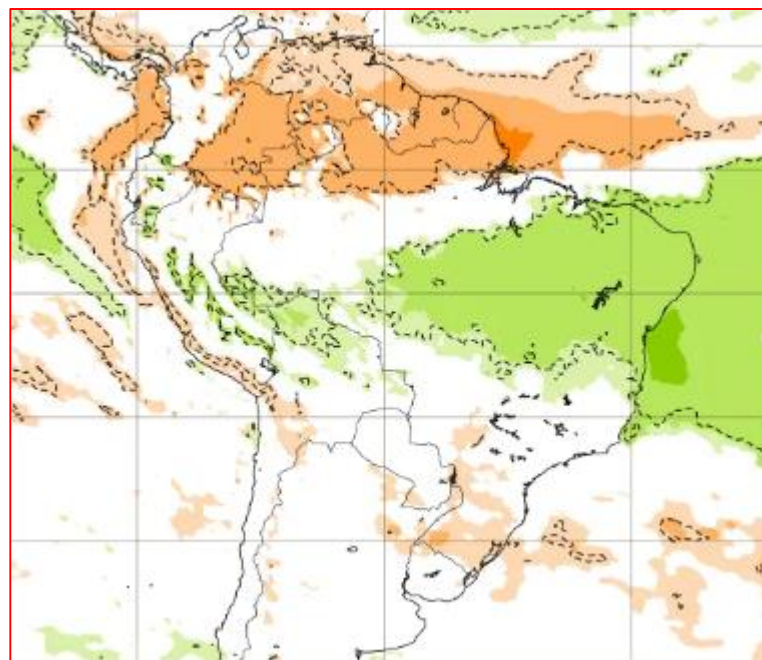


## Tendência para 3<sup>a</sup> e 4<sup>a</sup> semanas

18-25 MARÇO

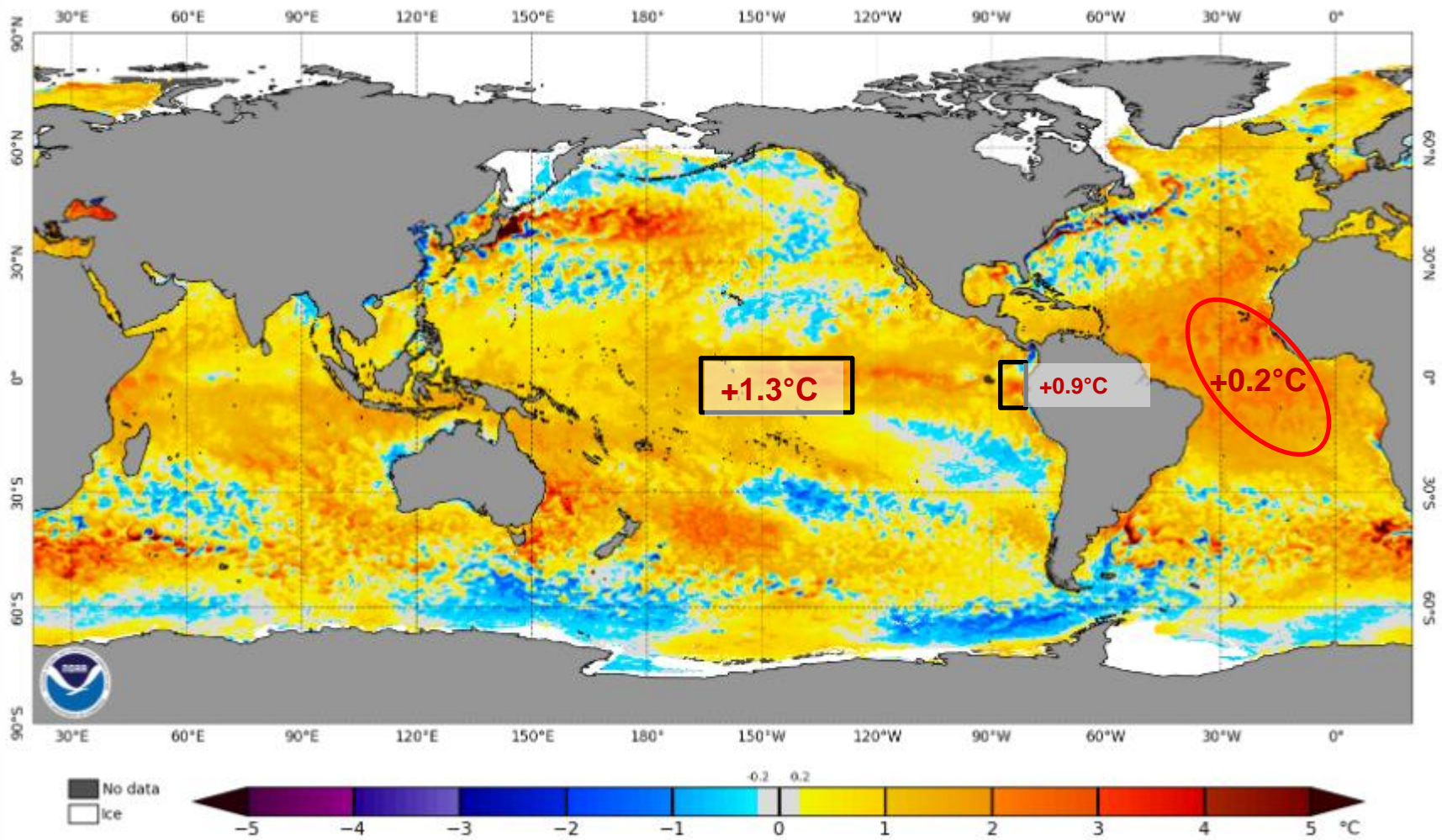


25 MAR-01 ABR



# ENSO Alert System Status: **El Niño Advisory** / **La Niña Watch**

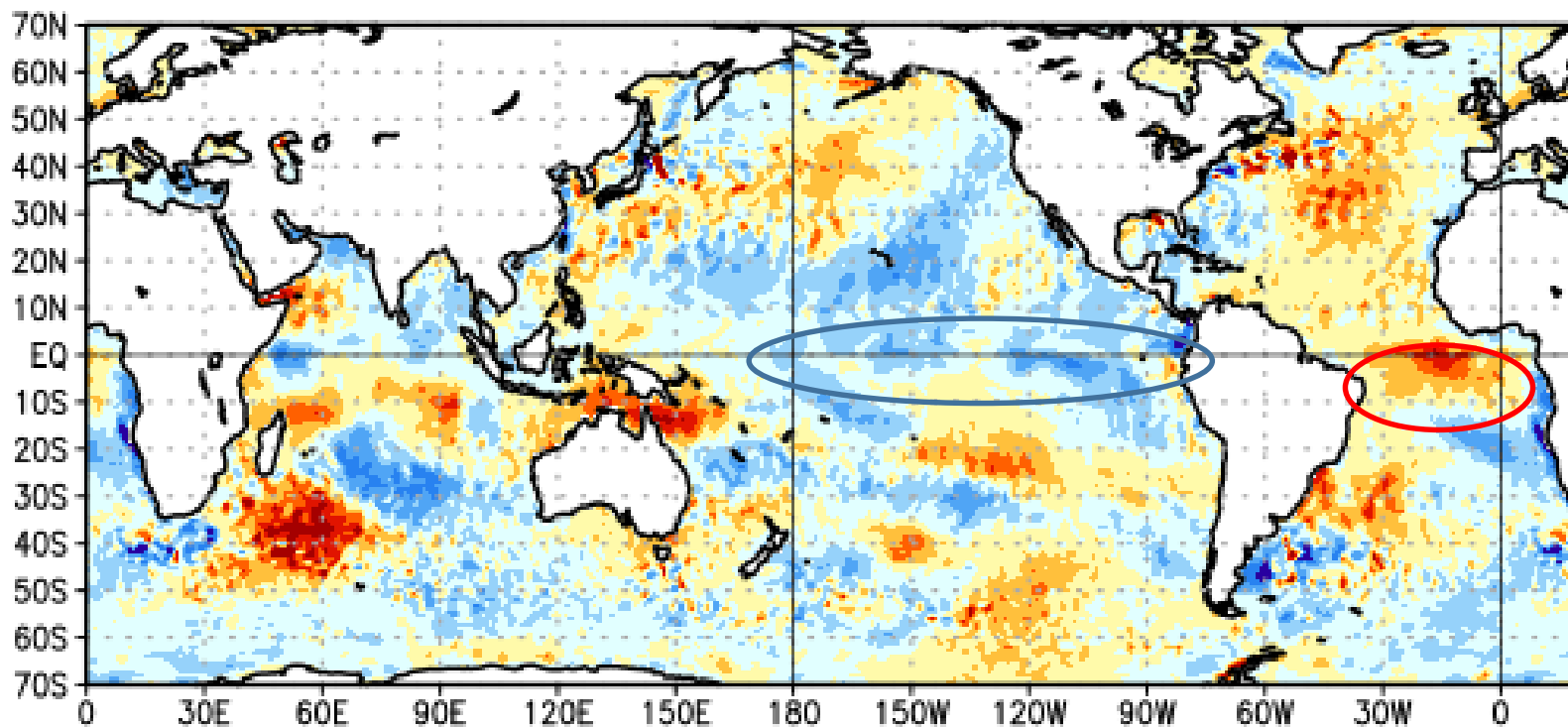
NOAA Coral Reef Watch Daily 5km SST Anomalies (v3.1) 2 Mar 2024



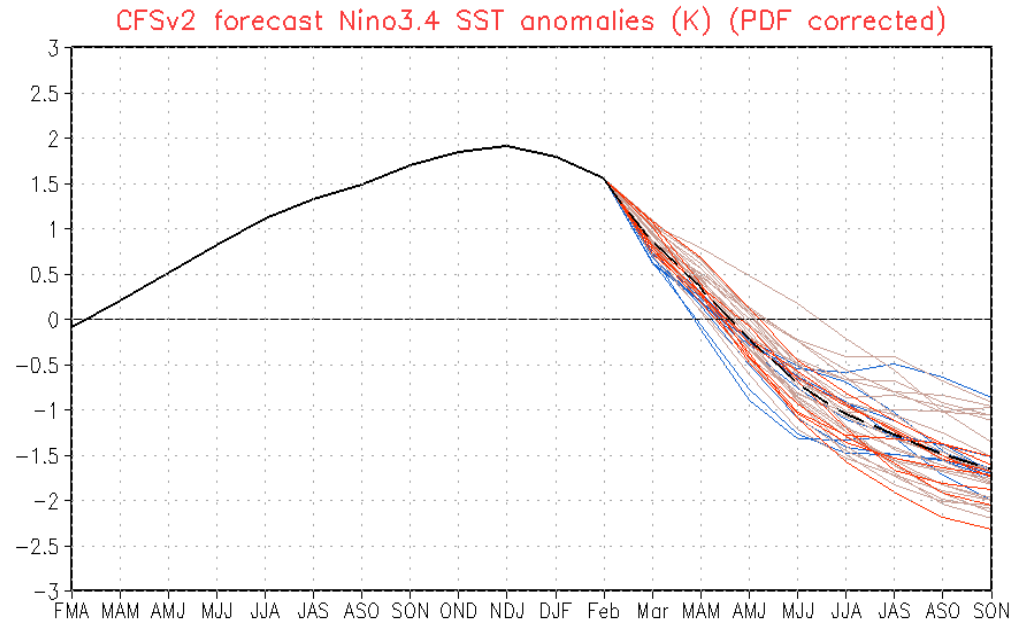
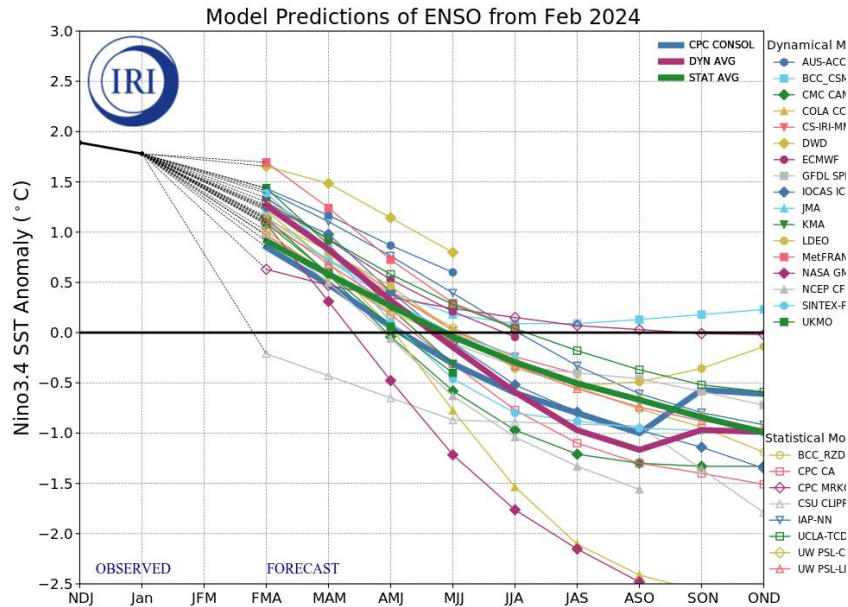
# Mudança na temperatura dos oceanos no último mês

Change in Weekly SST Anoms (°C)

28FEB2024 minus 31JAN2024



# Previsão do “ENSO”



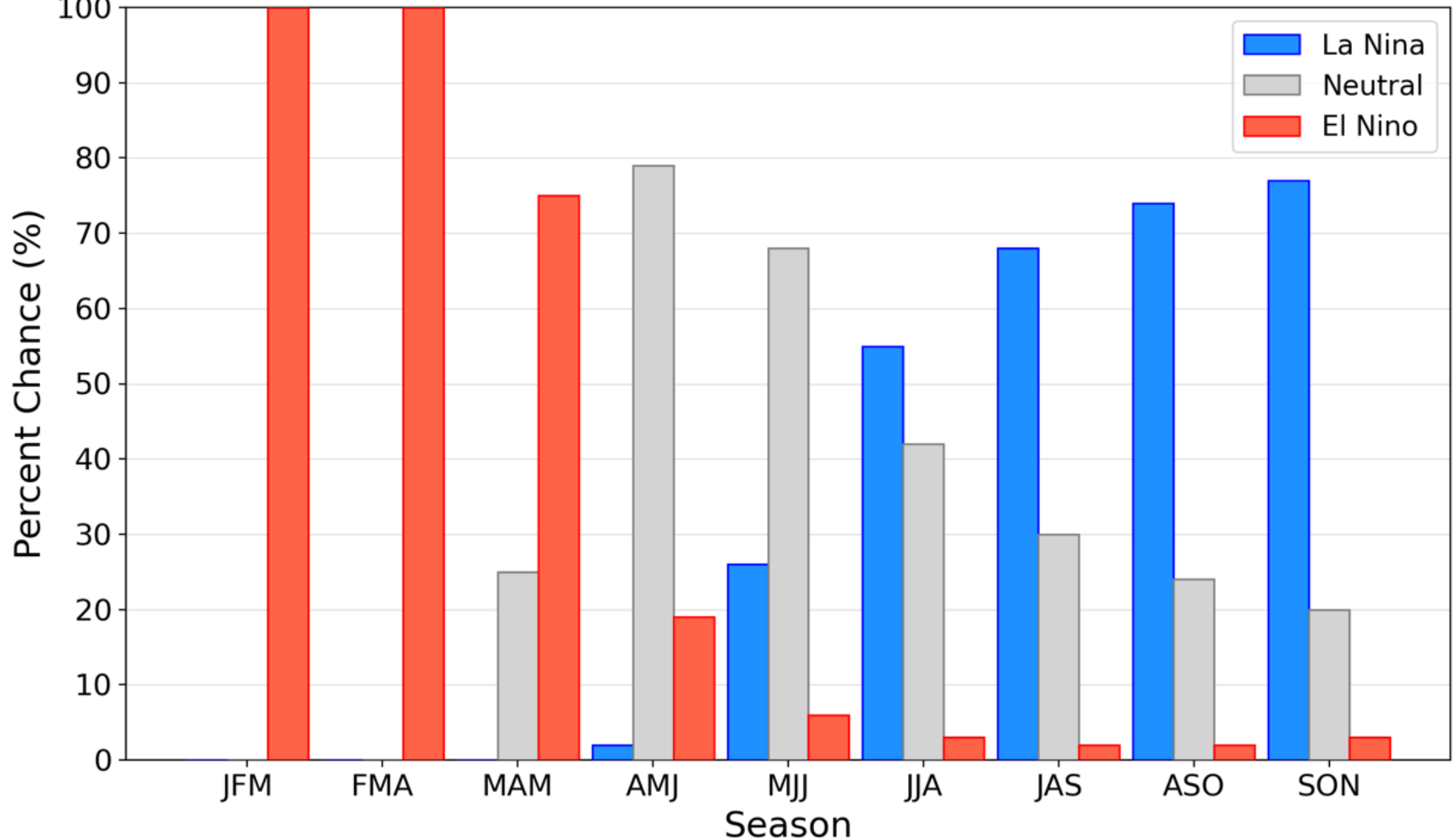
— Latest 8 forecast members  
— Earliest 8 forecast members  
— Other forecast members  
— — — Forecast ensemble mean  
— NCEP OIv2.1 daily analysis  
 (Climatology base period: 1991–2020)

Atualizado 04 de março

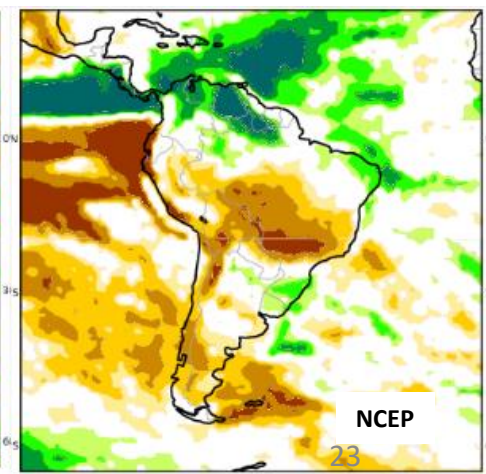
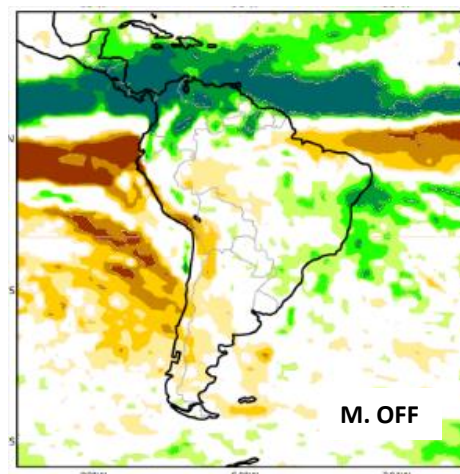
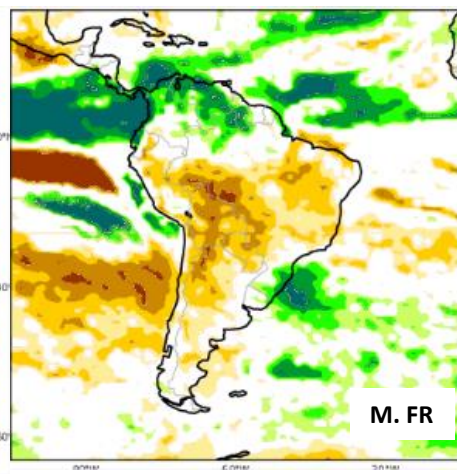
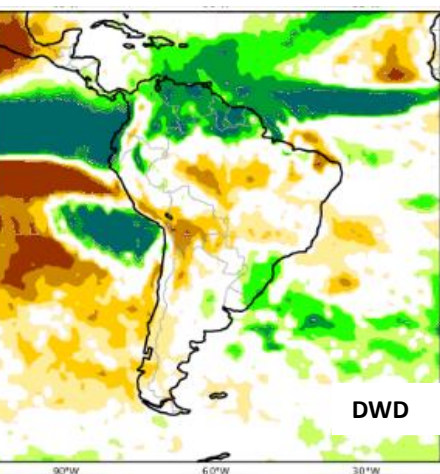
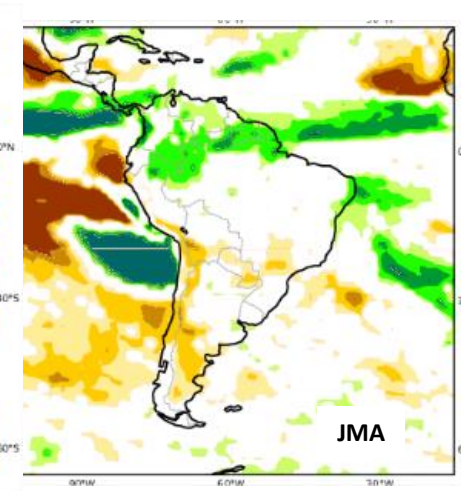
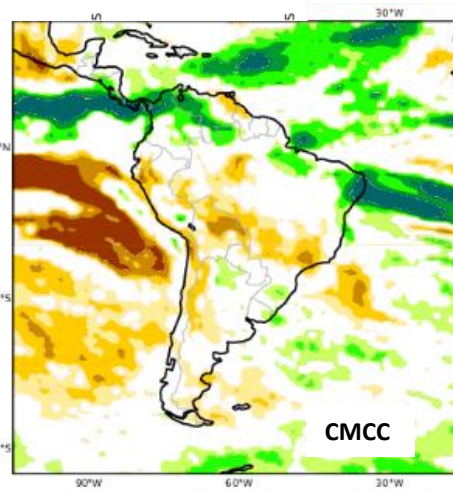
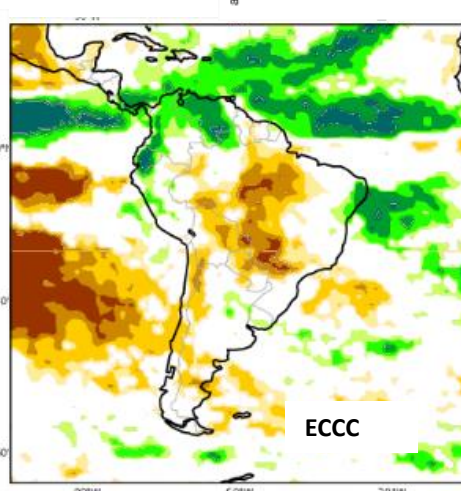
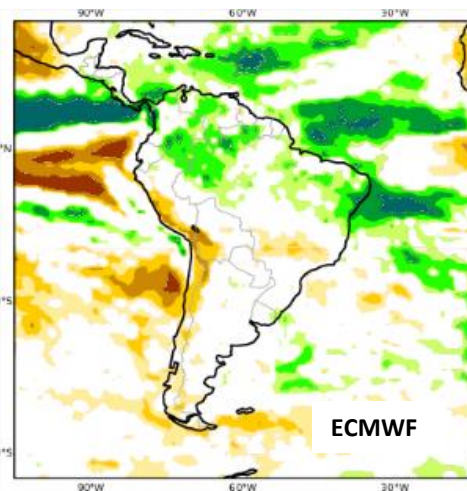
# Previsão do “ENSO”

## Official NOAA CPC ENSO Probabilities (issued Feb. 2024)

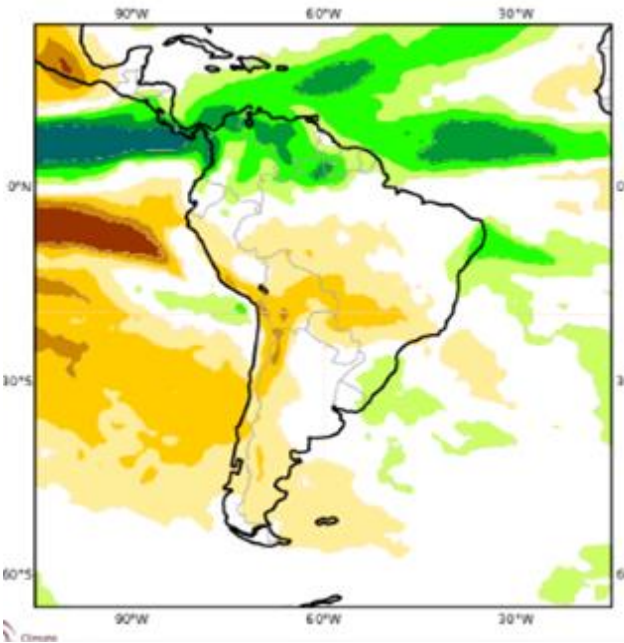
based on  $-0.5^{\circ}/+0.5^{\circ}\text{C}$  thresholds in ERSSTv5 Niño-3.4 index



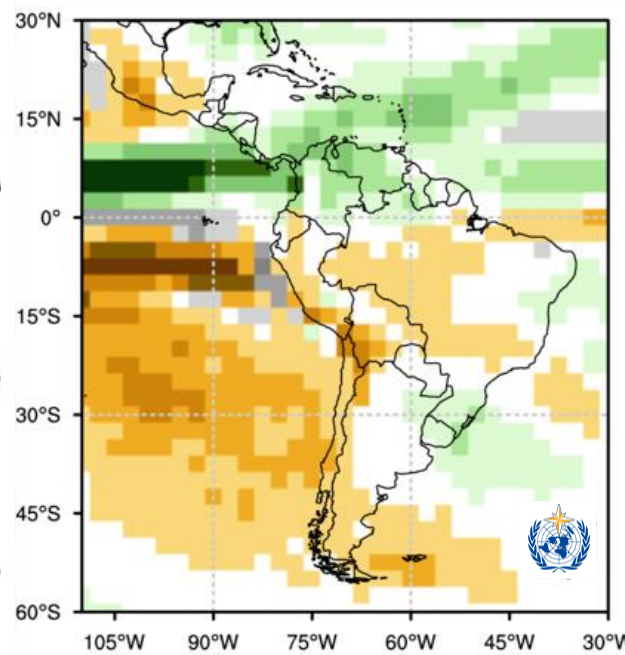
# Previsão Sazonal de Chuva MAM



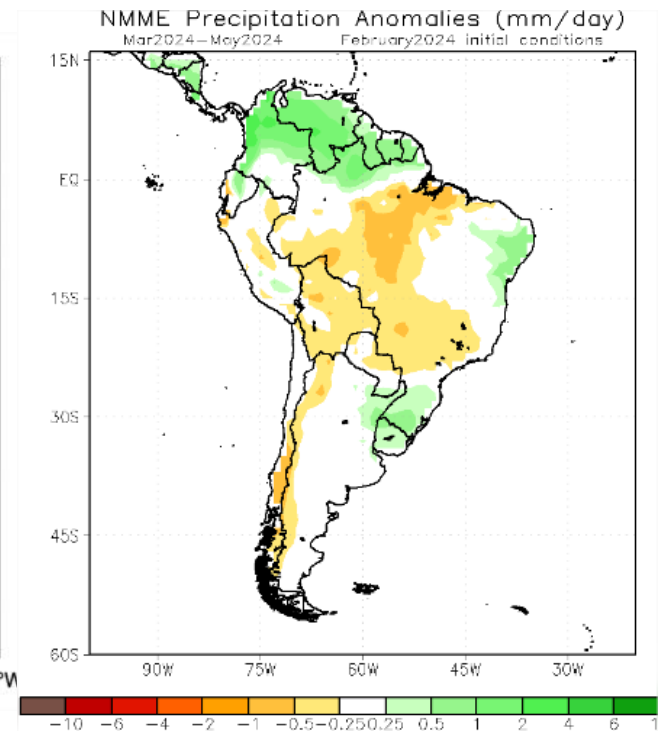
# Previsão Sazonal de Chuva Multi-Modelo para MAM



Modelos Europeus



Modelos da Organização Meteorológica Mundial



Modelos Americanos