



CEMADEN

Centro Nacional de Monitoramento e
Alertas de Desastres Naturais

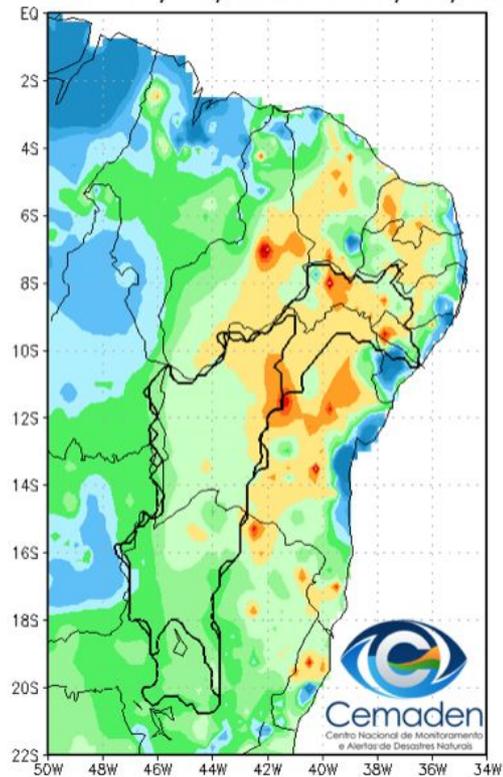
Monitoramento, Previsões e Projeções para a Bacia do Rio São Francisco

Outubro de 2024

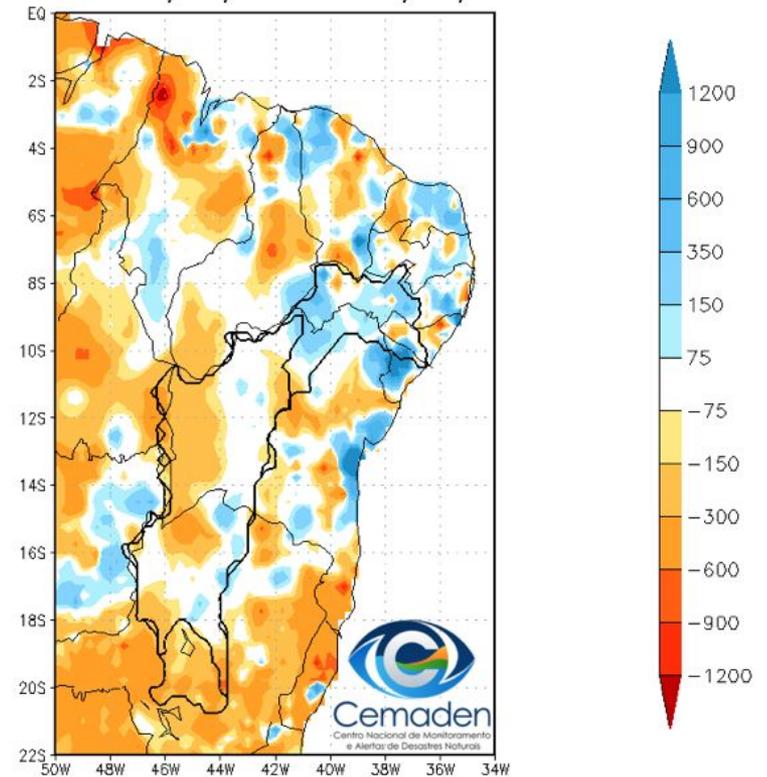


Chuva ano hidrológico

Precipitacao Acumulada (mm) A.S.
Período: 01/10/2023 a 30/09/2024

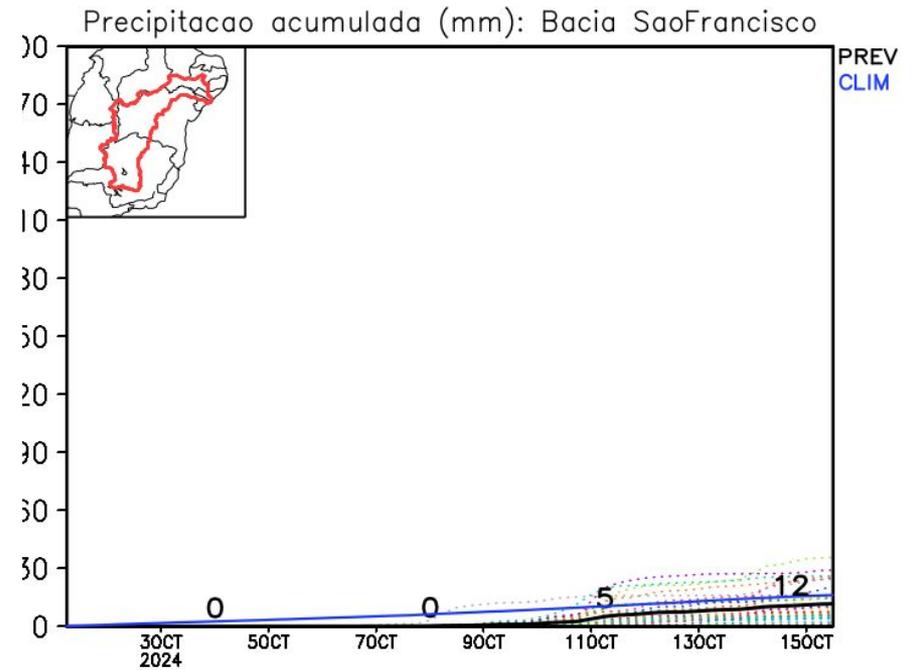
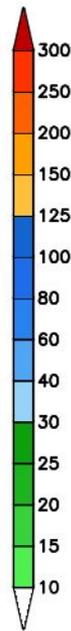
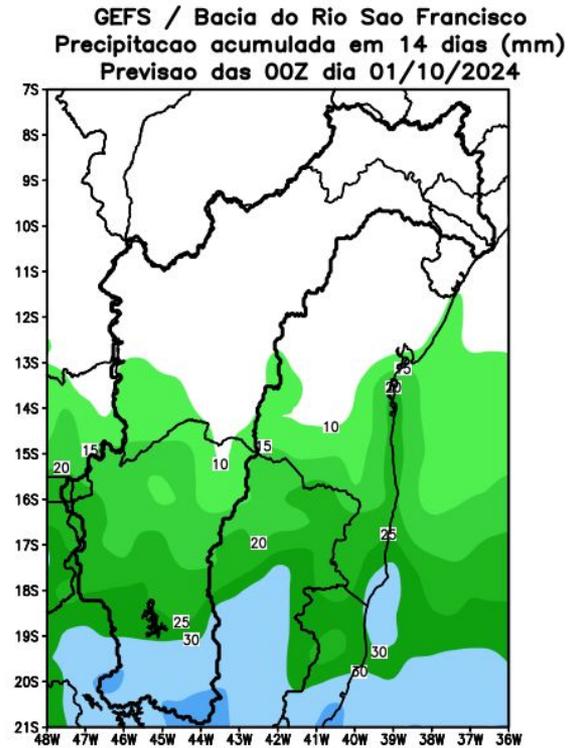


Anomalia de Precipitacao (mm) A.S.
Período: 01/10/2023 a 30/09/2024



Bacia do rio São Francisco

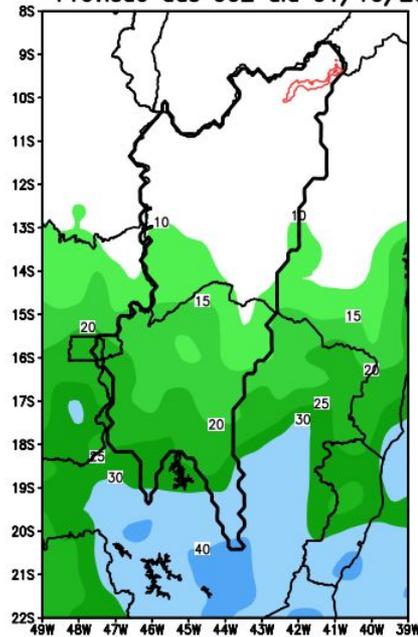
previsão próximos 14 dias



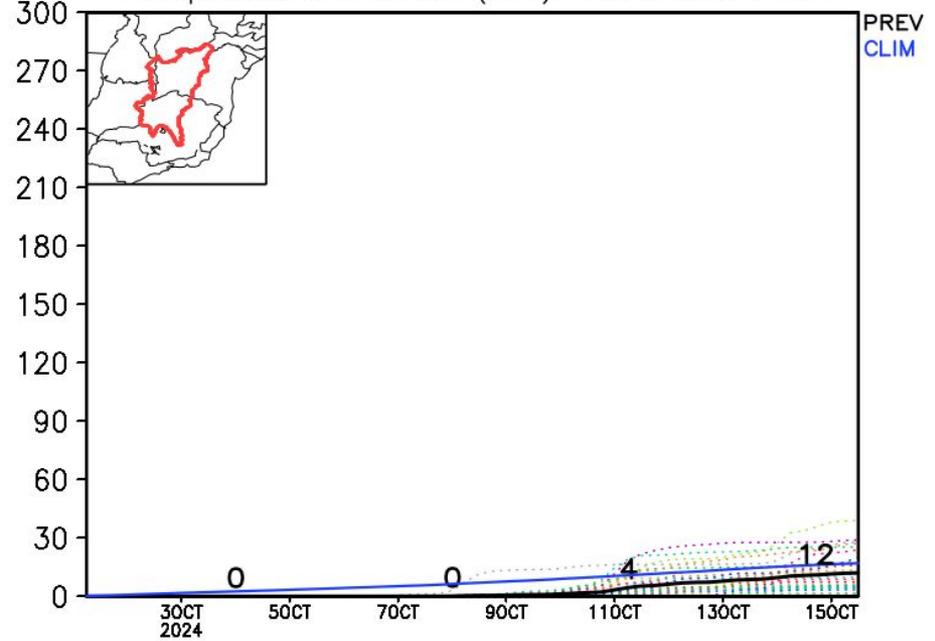
Bacia de Sobradinho

previsão próximos 14 dias

GEFS / Sobradinho
Precipitacao acumulada em 14 dias (mm)
Previsao das 00Z dia 01/10/2024



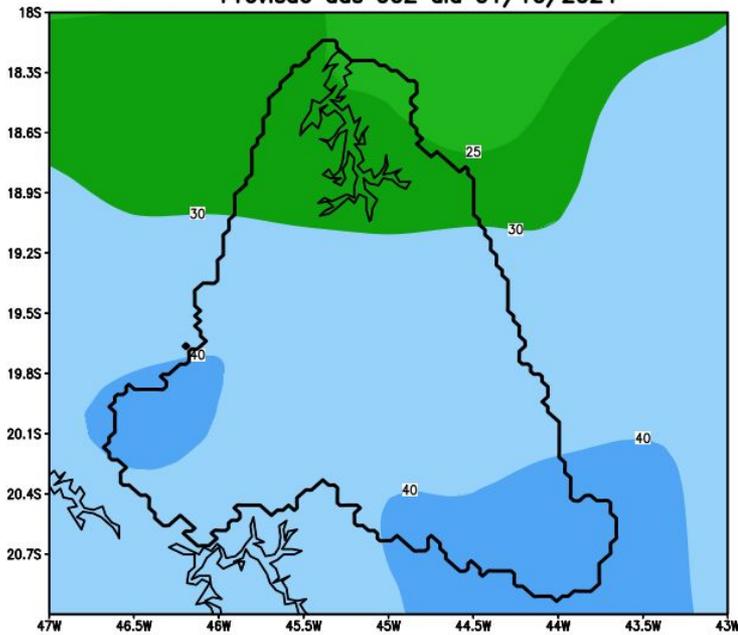
Precipitacao acumulada (mm): Bacia Sobradinho



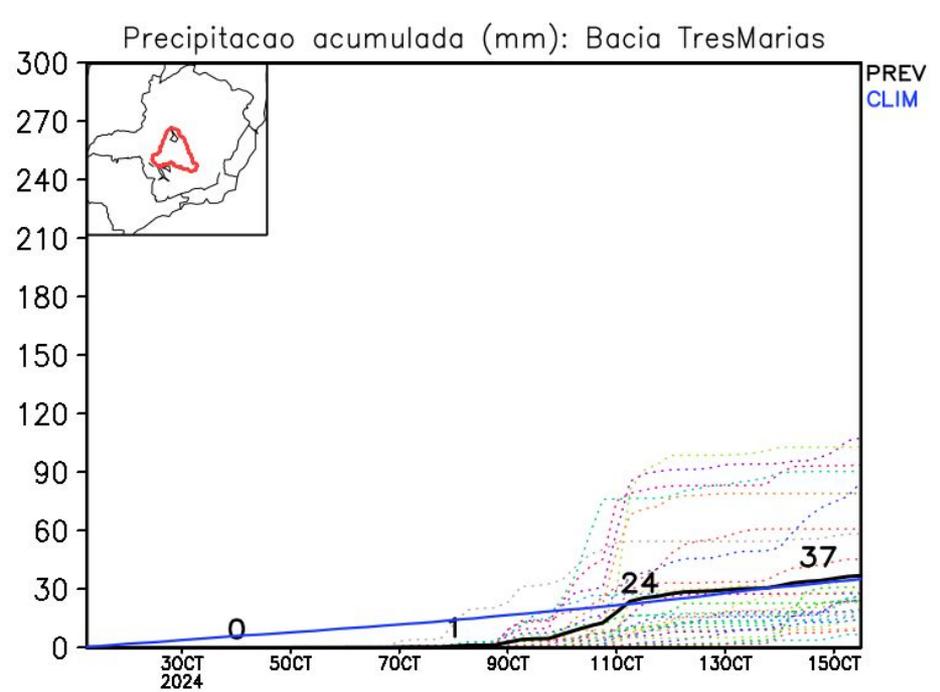
Bacia de Três Marias

previsão próximos 14 dias

GEFS / Tres Marias
Precipitacao acumulada em 14 dias (mm)
Previsao das 00Z dia 01/10/2024



Precipitacao acumulada (mm): Bacia TresMarias

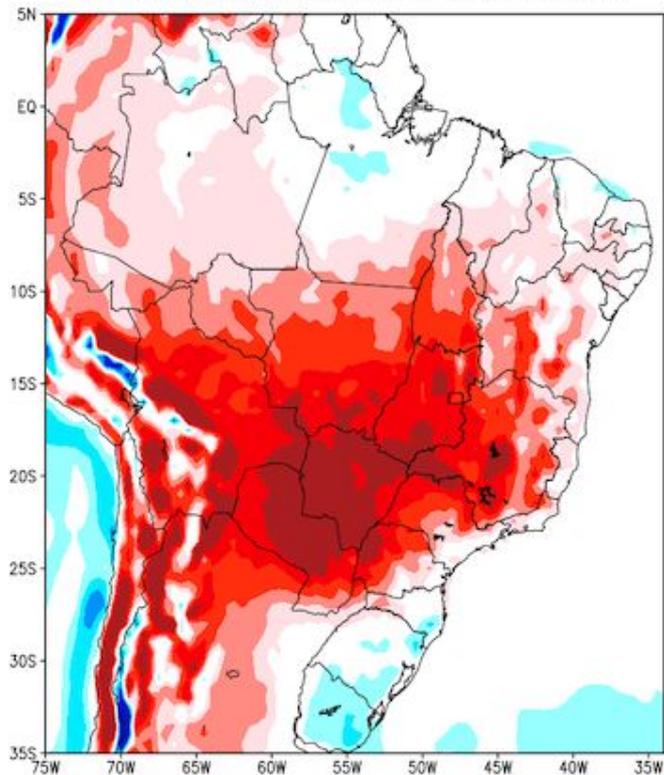


Anomalia de Temperatura

previsão próximos 14 dias

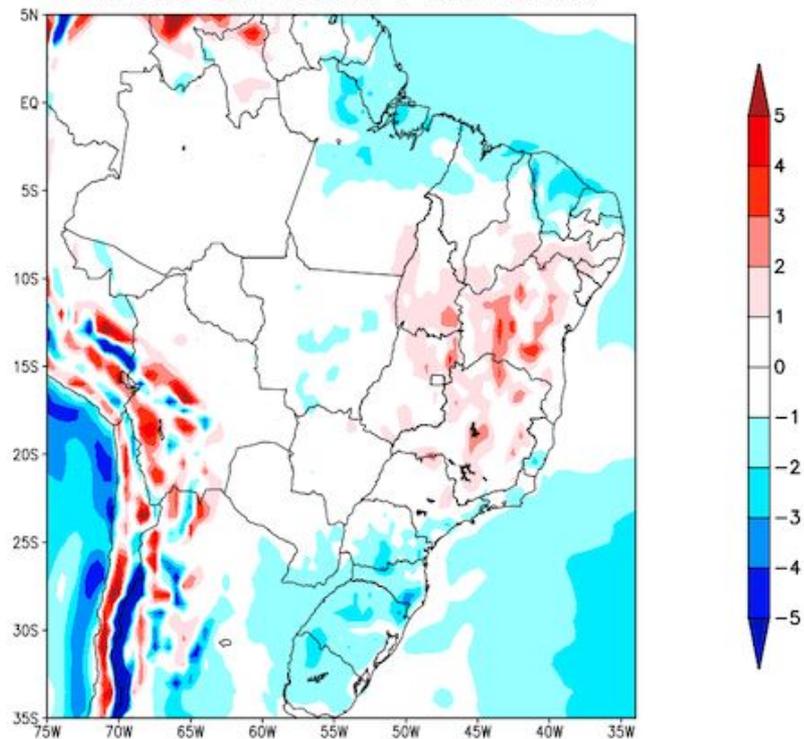
semana 1

Anomalia de Temperatura BR (C)
Período: 2024100100 a 2024100800



semana 2

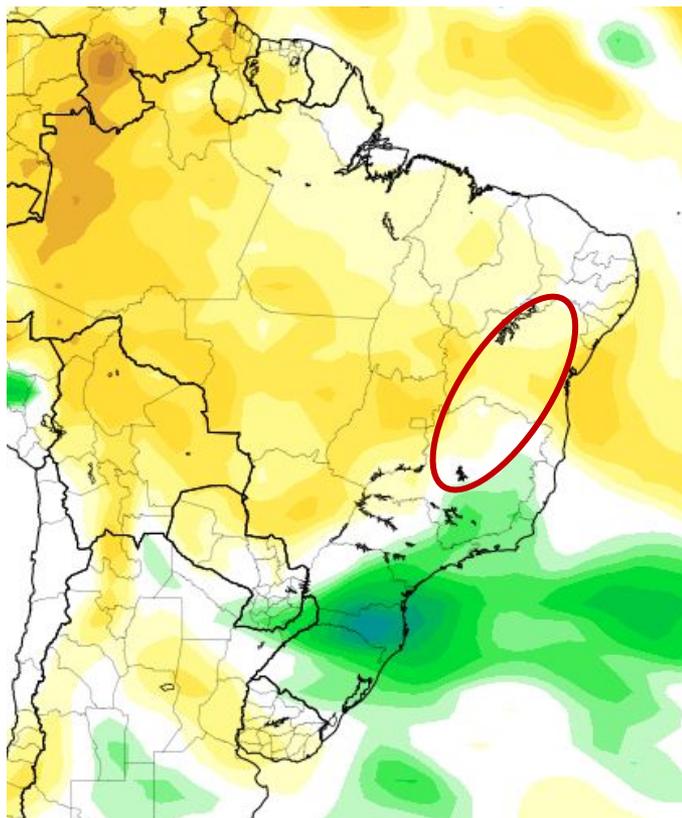
Anomalia de Temperatura BR (C)
Período: 2024100900 a 2024101500



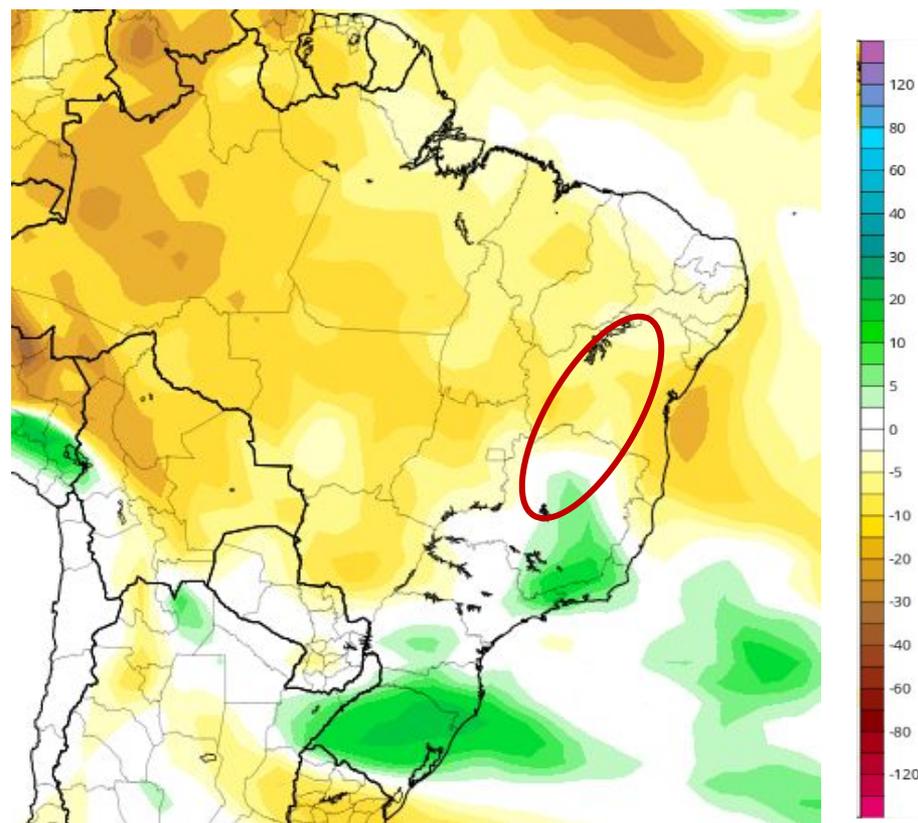
Anomalia de Chuva

3a e 4a semanas

15-21 Outubro



22 - 28 Outubro

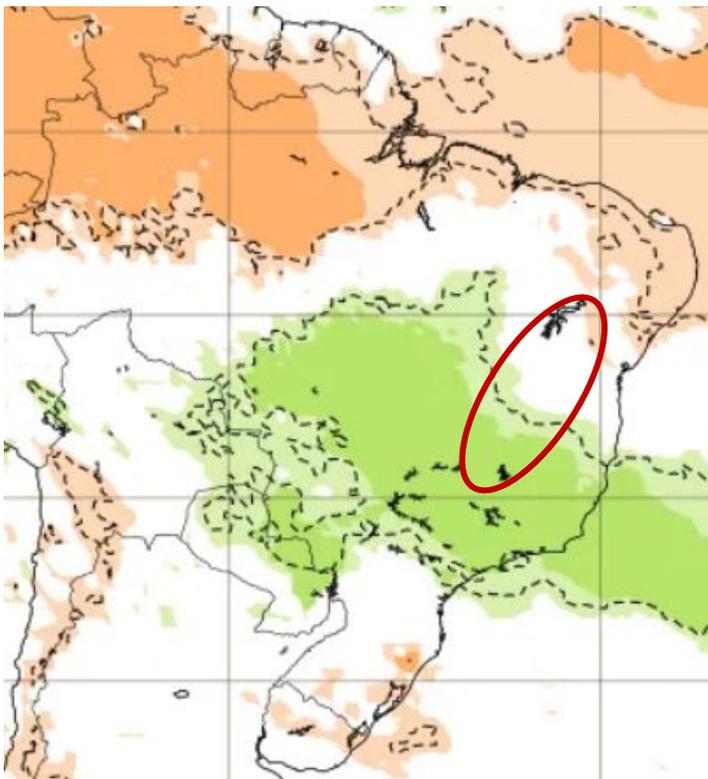


CFSv2 Accumulated Precip. Anomaly (mm)

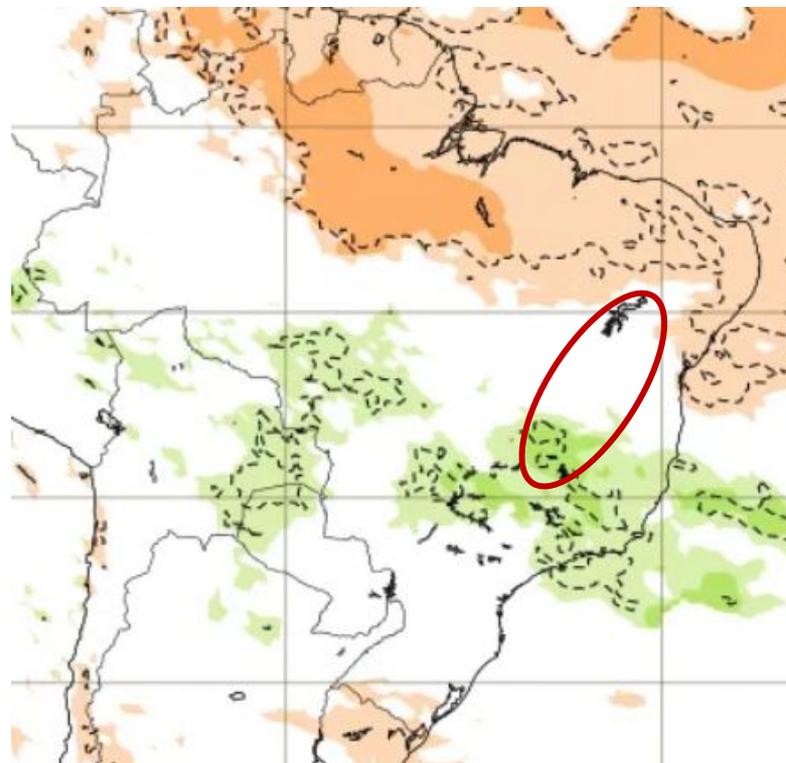
Anomalia de Chuva

3ª e 4ª semanas

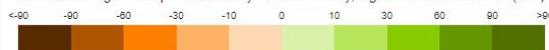
14-20 Outubro



21-27 Outubro

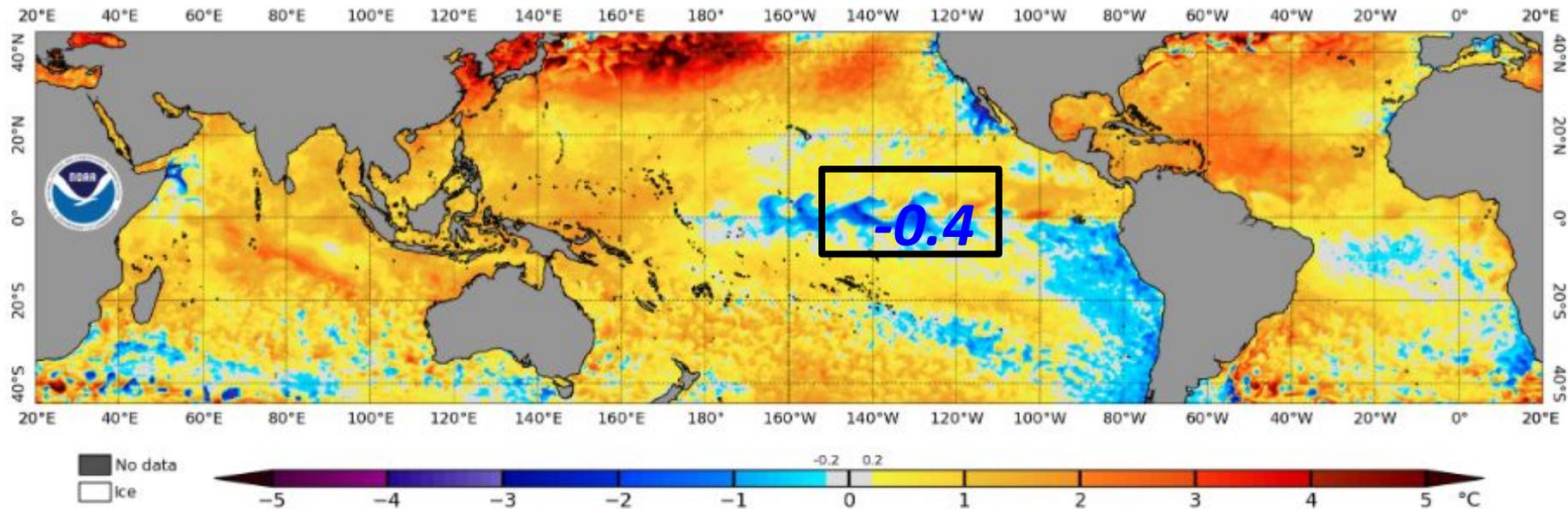


Extended range: Precipitation weekly mean anomaly, significance level: 10 % (mm)



El Niño/LA Niña: anomalias de temperatura da superfície do mar no oceano Pacífico

NOAA Coral Reef Watch Daily 5km SST Anomalies (v3.1) 29 Sep 2024



Evolução ENSO

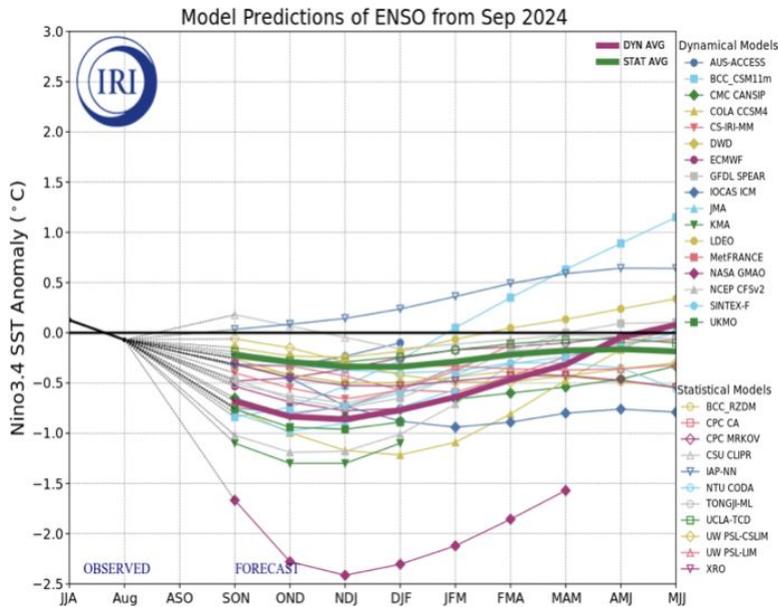
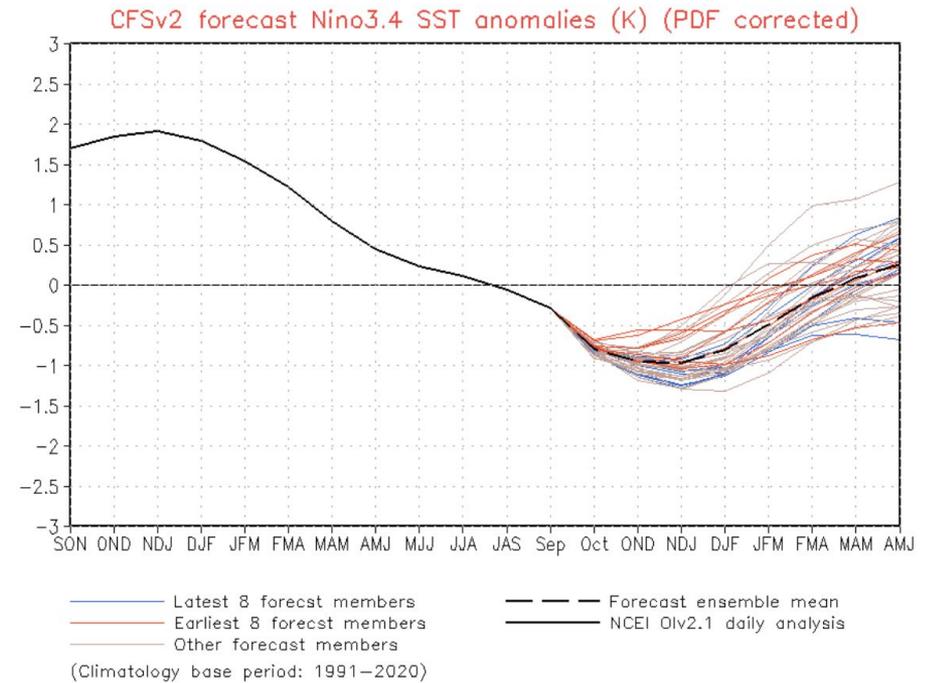


Figure provided by the International Research Institute (IRI) for Climate and Society (updated 19 September 2024).



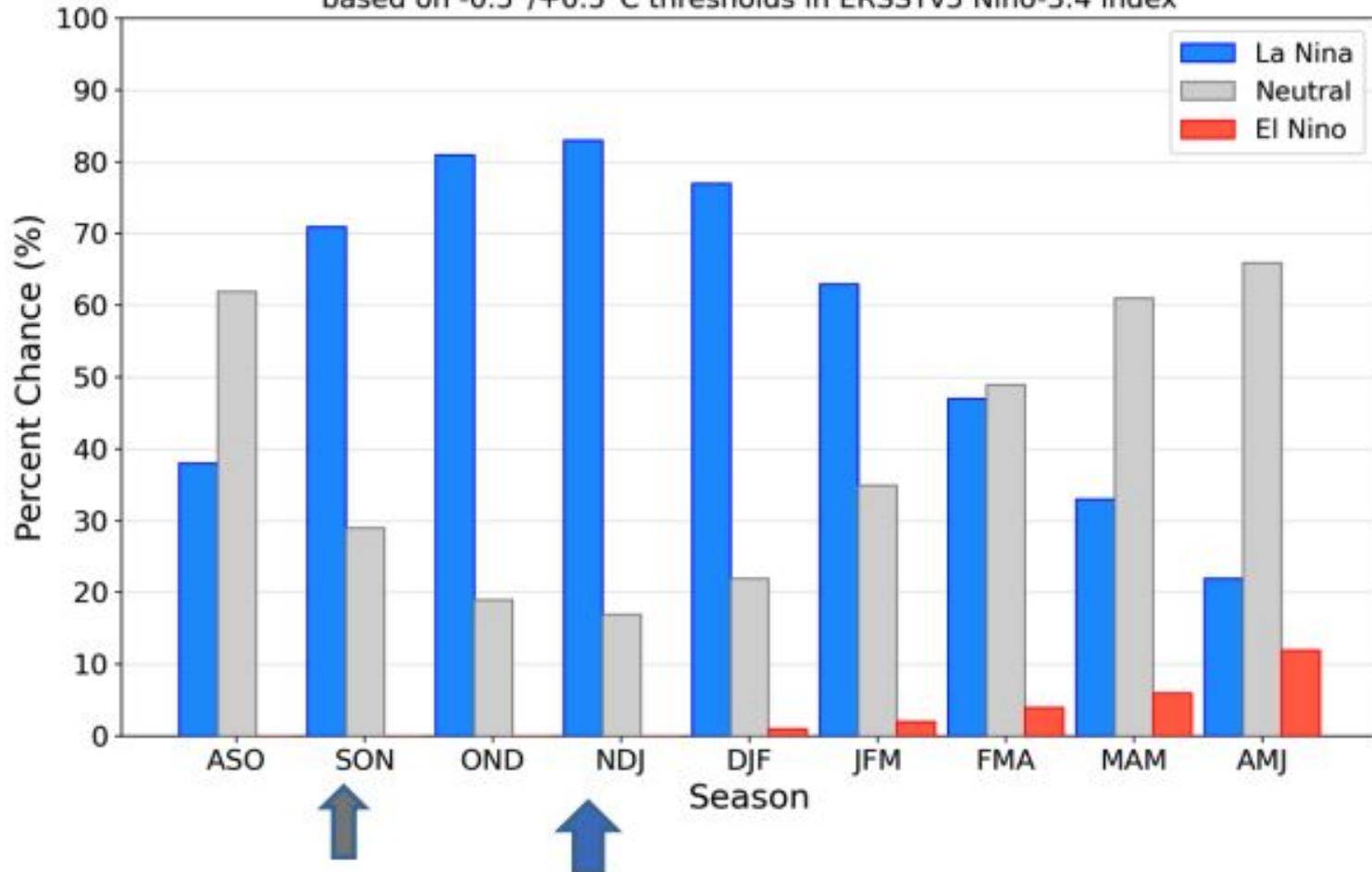
Atualizado dia 30 de setembro.

- La Niña começa em outubro
- pico no final do ano: fraca

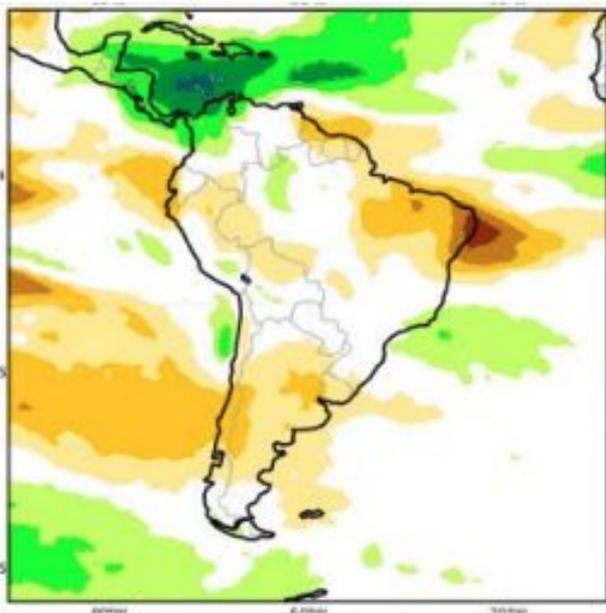
Previsão do “ENSO”

Official NOAA CPC ENSO Probabilities (issued September 2024)

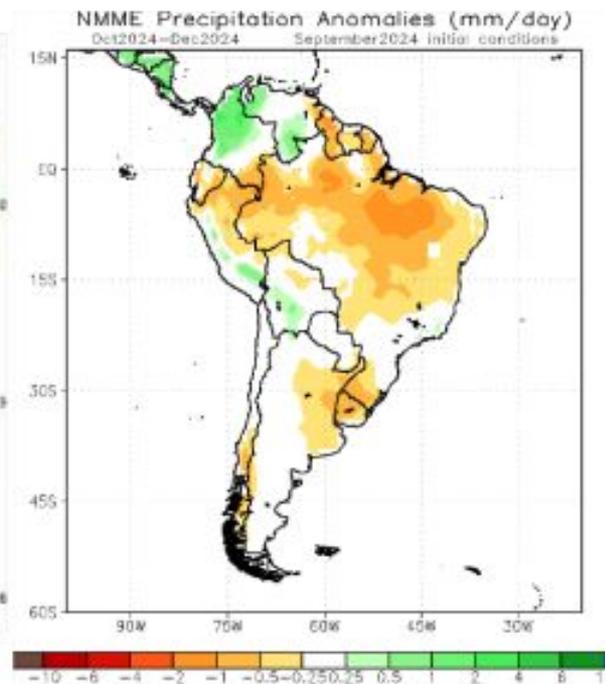
based on $-0.5^{\circ}/+0.5^{\circ}\text{C}$ thresholds in ERSSTv5 Niño-3.4 index



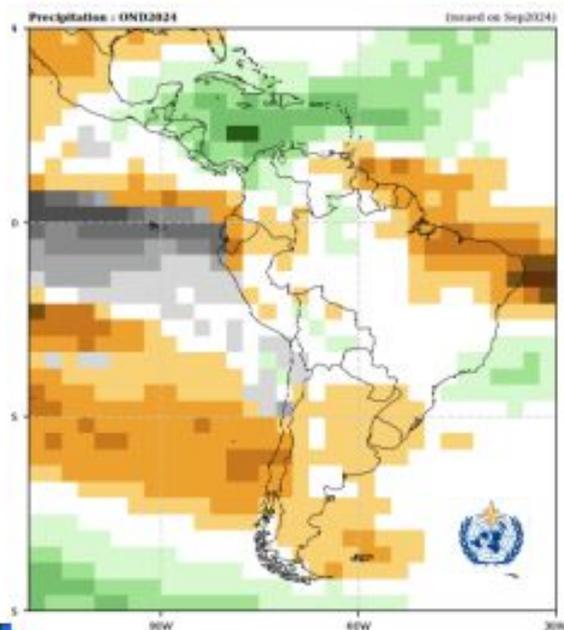
Previsão Sazonal de Chuva Multi-Modelo para OND



Modelos Europeus



Modelos Americanos

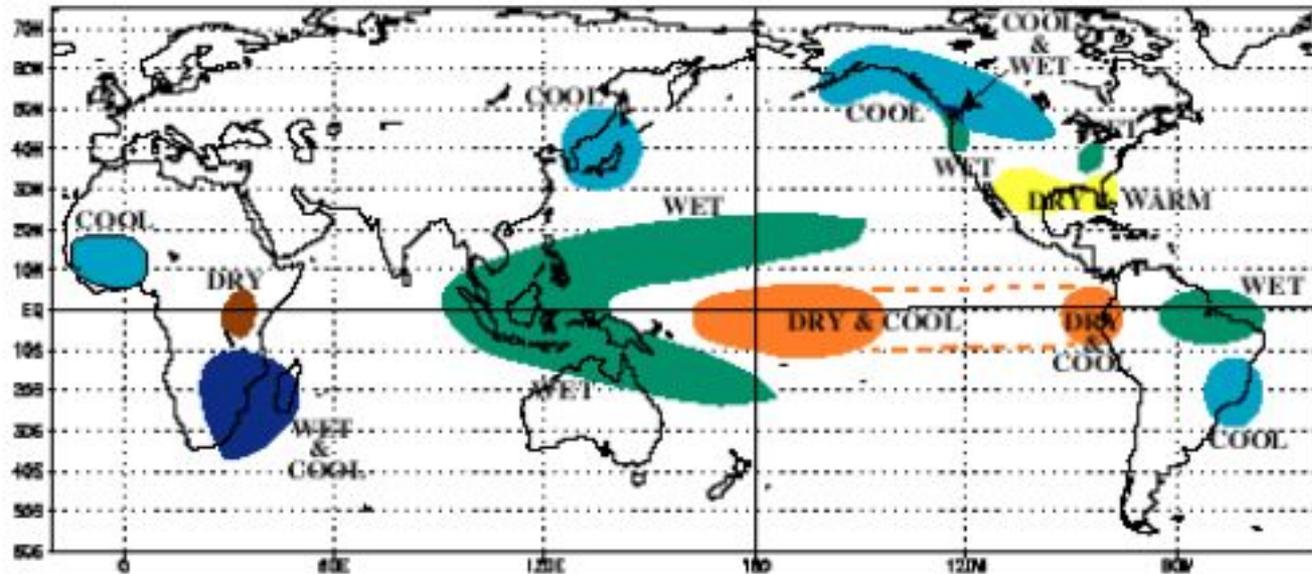


Modelos da Organização Meteorológica Mundial

La Niña: anomalias

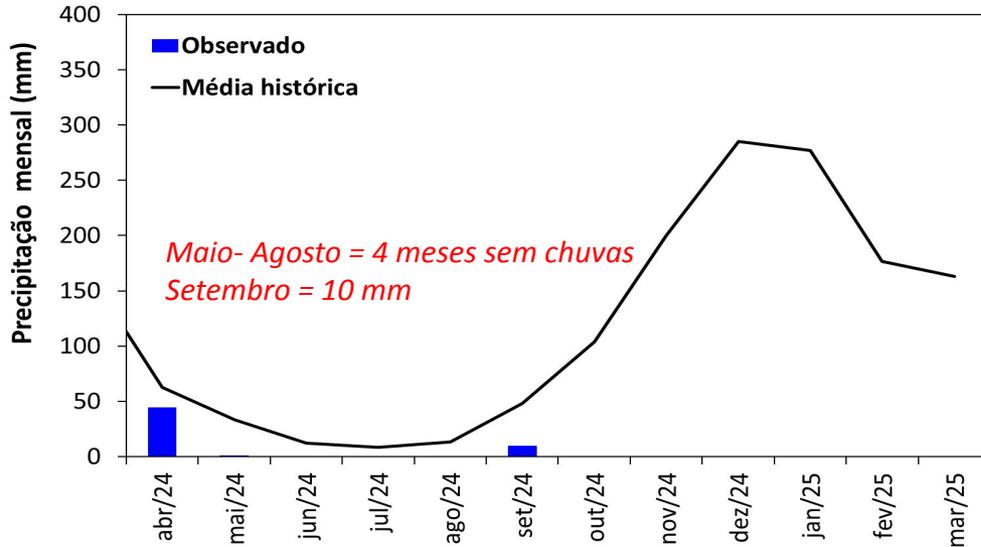
dezembro-janeiro-fevereiro

COLD EPISODE RELATIONSHIPS DECEMBER - FEBRUARY



Monitoramento UHE Três Marias

Precipitação



Estação Chuvosa - Out a Mar - 1205 mm

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

2023/2024: 1057 mm (88% da MLT)

Estação Seca - Abr a Set - 178 mm

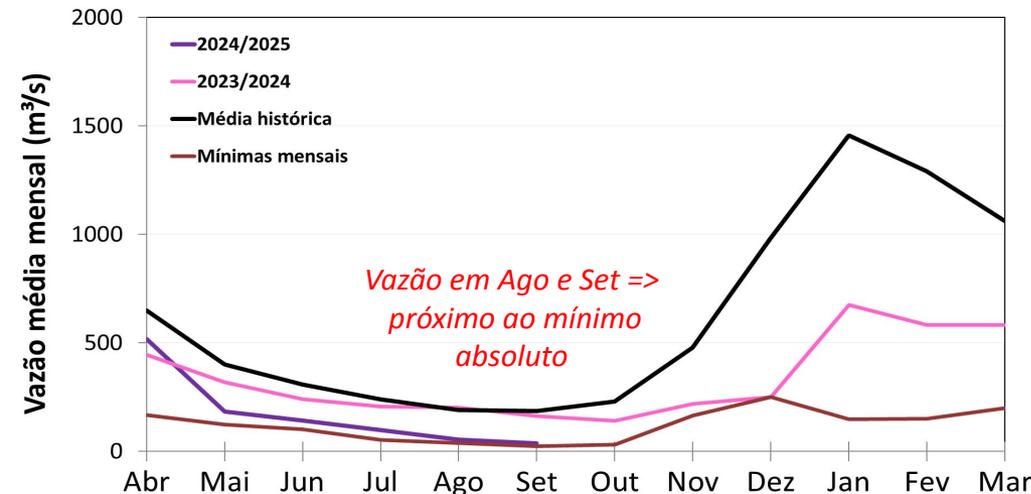
2023: 142 mm (79% da MLT)

2024*: 57 mm (32% da MLT)

Setembro/24: 10 mm (21% da MLT)

*Até 29/09/2024

Vazão



Estação Chuvosa - Nov a Abr - 986 m³/s

2022/2023: 1029 m³/s (104% da MLT)

2023/2024: 470 m³/s (48% da MLT)

Estação Seca - Maio a Out - 259 m³/s

2023: 211 m³/s (82% da MLT)

2024*: 102 m³/s (40% da MLT)

Setembro/24: 37 m³/s (20% da MLT)

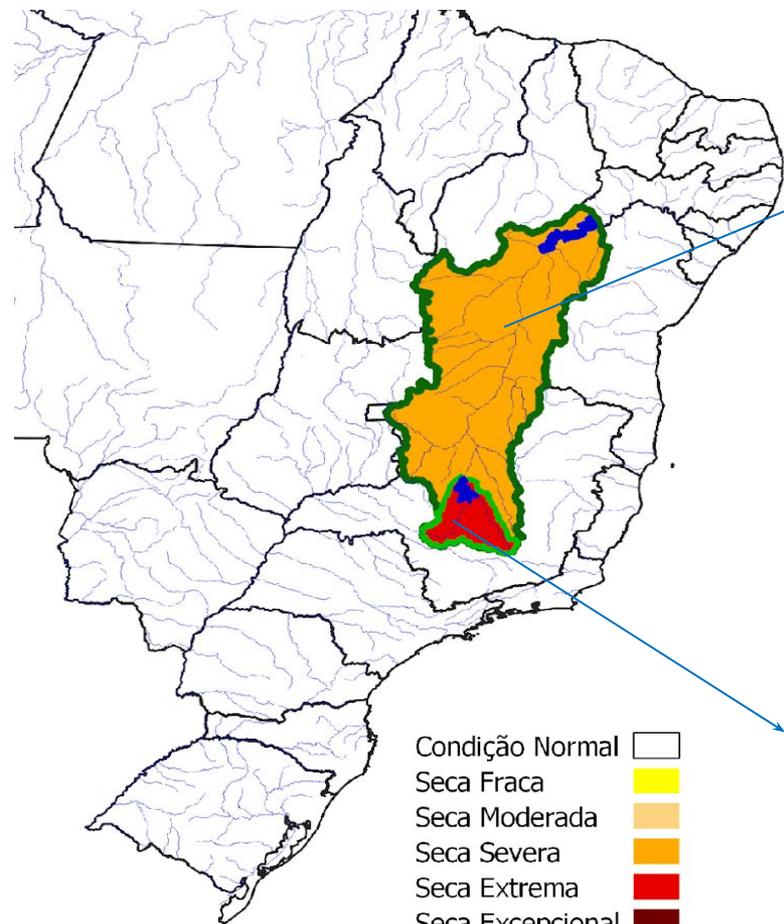
29/Set/24: 46 m³/s (25% da MLT)

*Até 29/09/2024

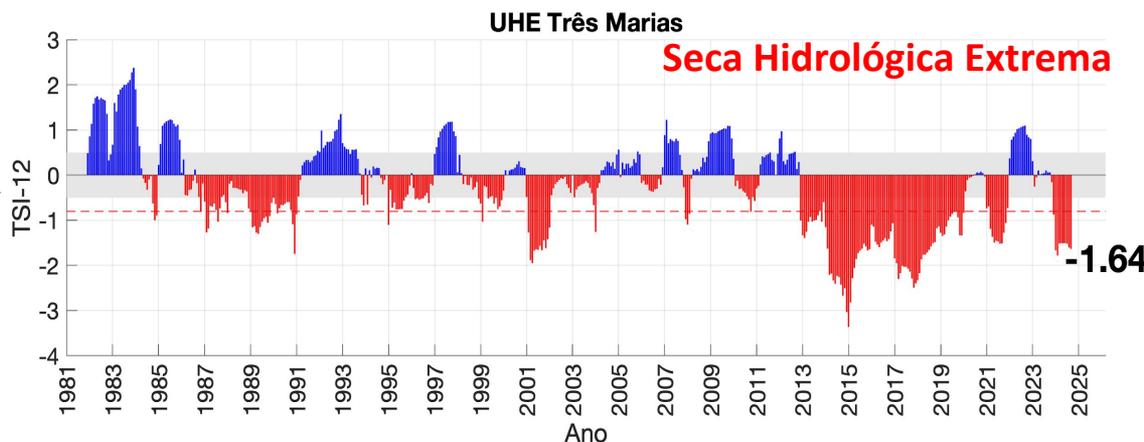
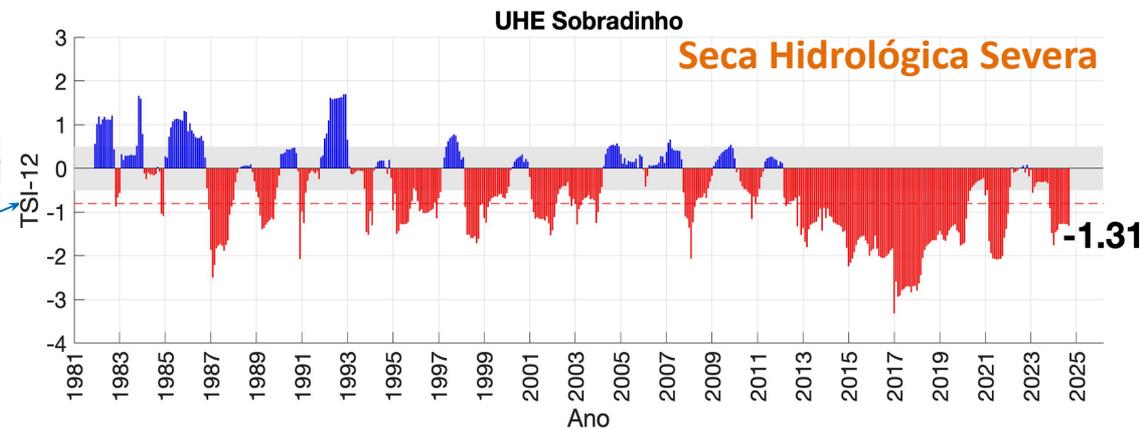
Monitoramento UHE Três Marias e Sobradinho

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

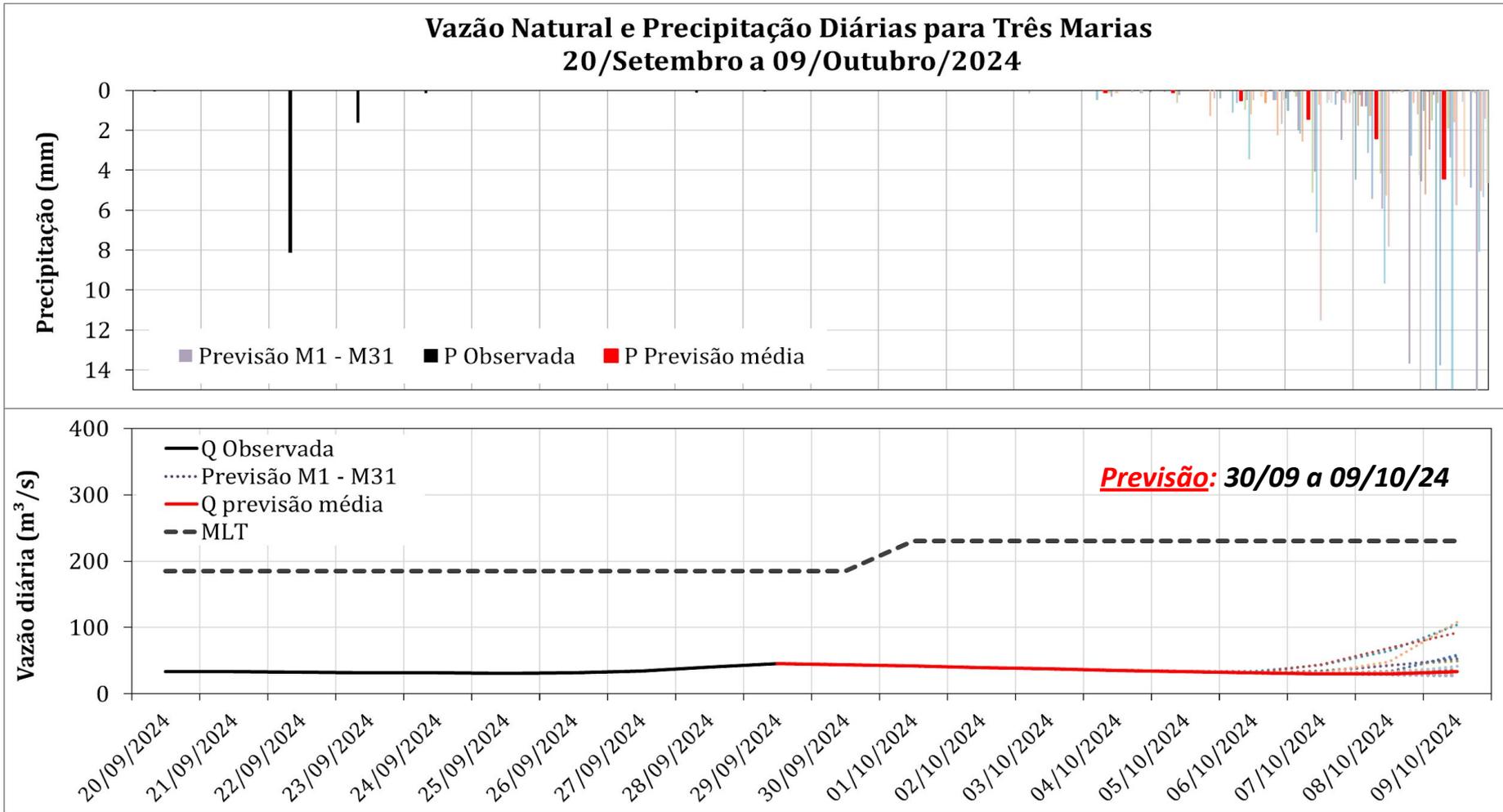
Setembro/2024



- Condição Normal
- Seca Fraca
- Seca Moderada
- Seca Severa
- Seca Extrema
- Seca Excepcional



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

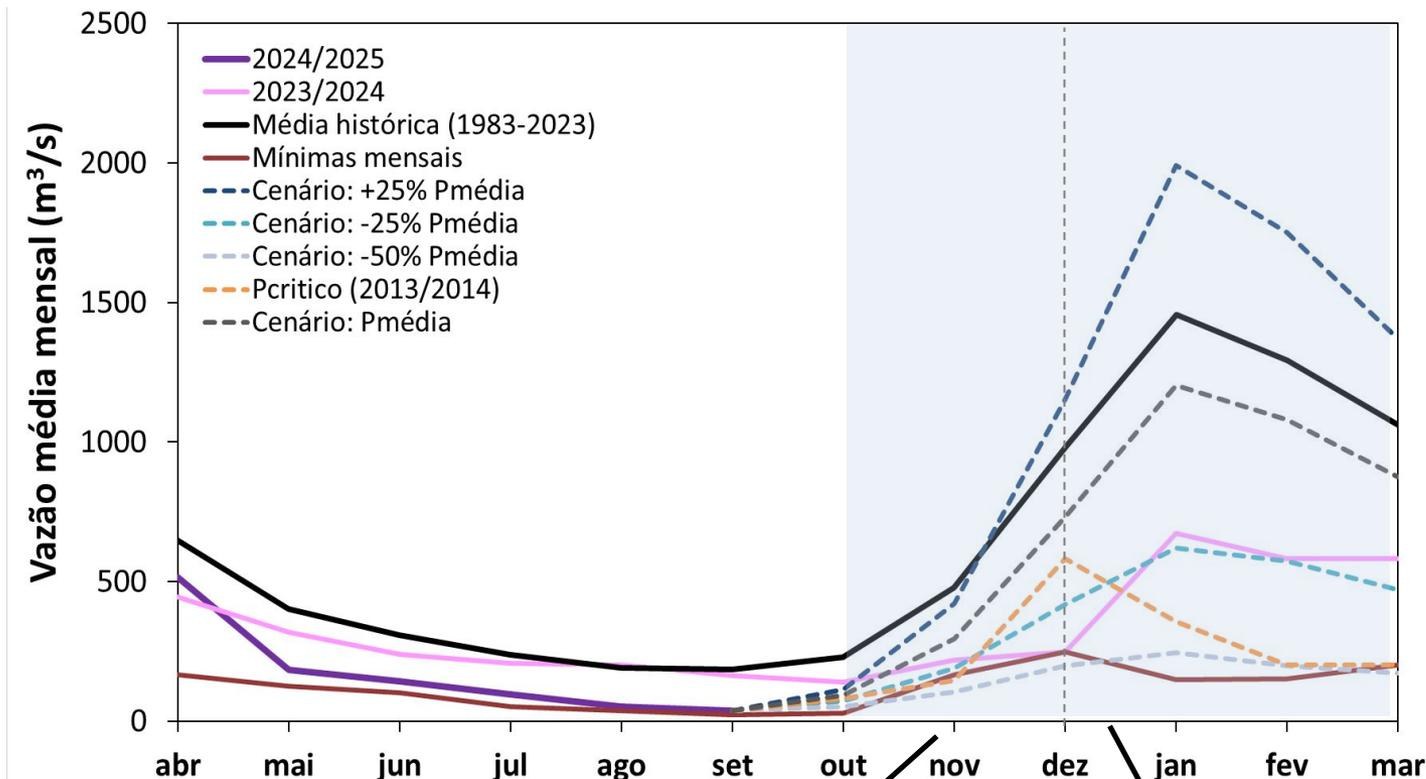


Previsão média para
os próximos 10 dias: **36 m³/s**



16% da MLT de Outubro

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



Out-Dez (Meses Chuvosos)

MLT: 564 m³/s

| Vazão | % |
|----------------------------|-----------------|
| 563 m³/s | MLT 100% |
| 373 m ³ /s | 66% |
| 226 m ³ /s | 40% |
| 270 m ³ /s | 48% |

Out-Mar (Estação Chuvosa)

MLT: 917 m³/s

| Vazão | % |
|-----------------------------|-----------------|
| 1134 m³/s | MLT 124% |
| 712 m ³ /s | 78% |
| 390 m ³ /s | 43% |
| 262 m ³ /s | 29% |