



# CEMADEN

Centro Nacional de Monitoramento e  
Alertas de Desastres Naturais

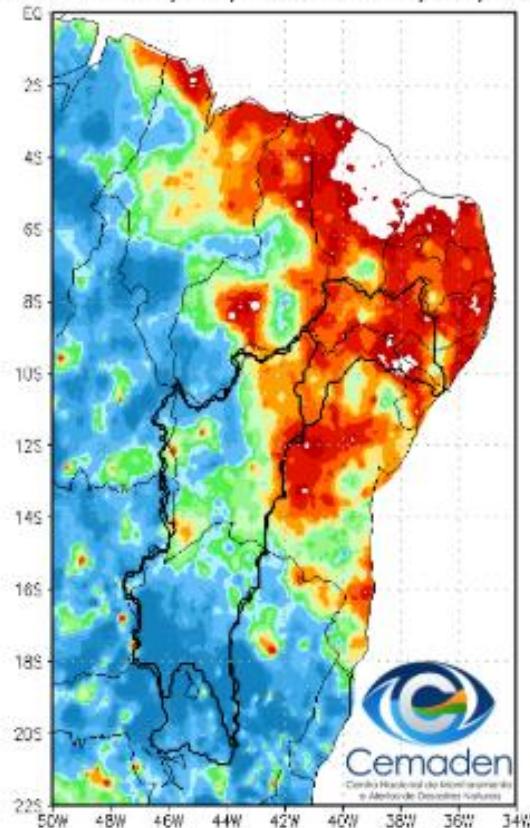
Monitoramento,  
Previsões e  
Projeções para a  
Bacia do Rio São  
Francisco

14 de Janeiro de 2025

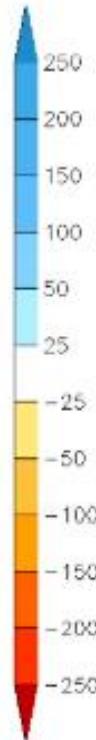
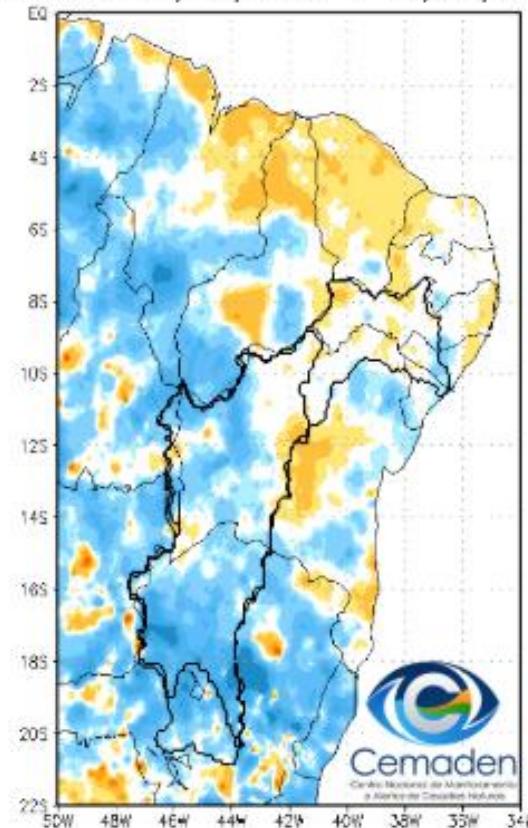


## Chuva dos últimos 30 dias

Precipitacao Acumulada (mm) A.S.  
Periodo: 14/12/2024 a 13/01/2025

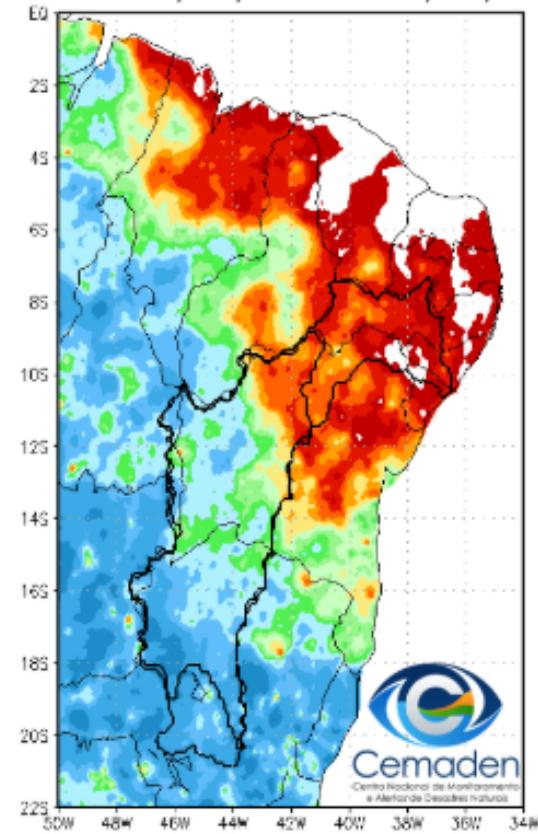


Anomalia de Precipitacao (mm) A.S.  
Periodo: 14/12/2024 a 13/01/2025

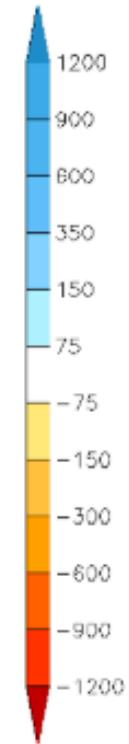
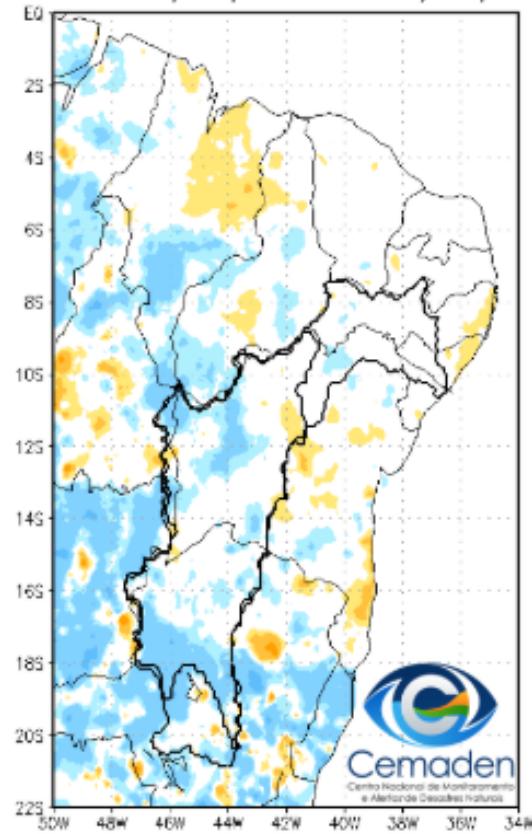


## Chuva no Ano Hidrológico - desde 01/10/2023

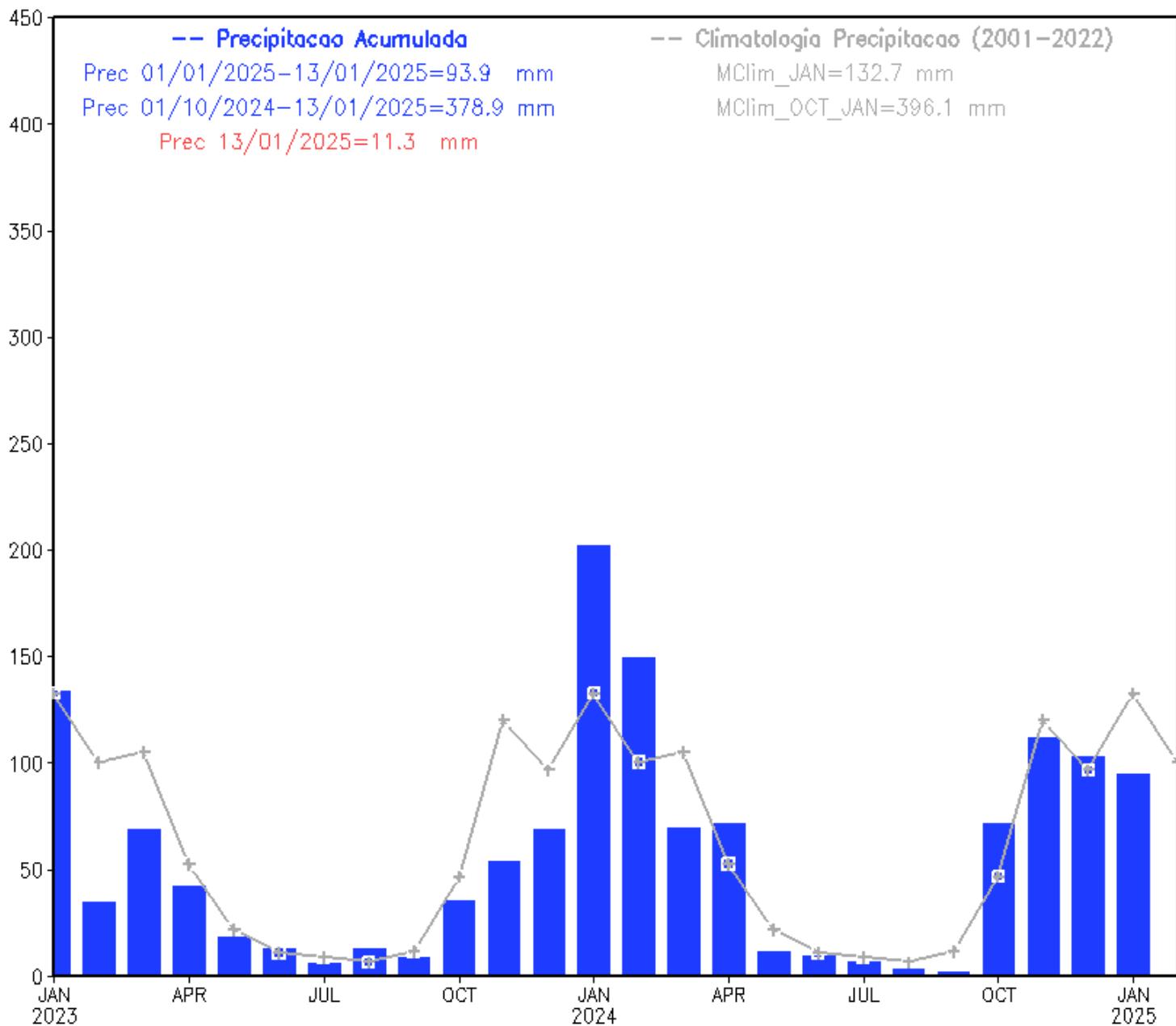
Precipitação Acumulada (mm) A.S.  
Período: 01/10/2024 a 13/01/2025



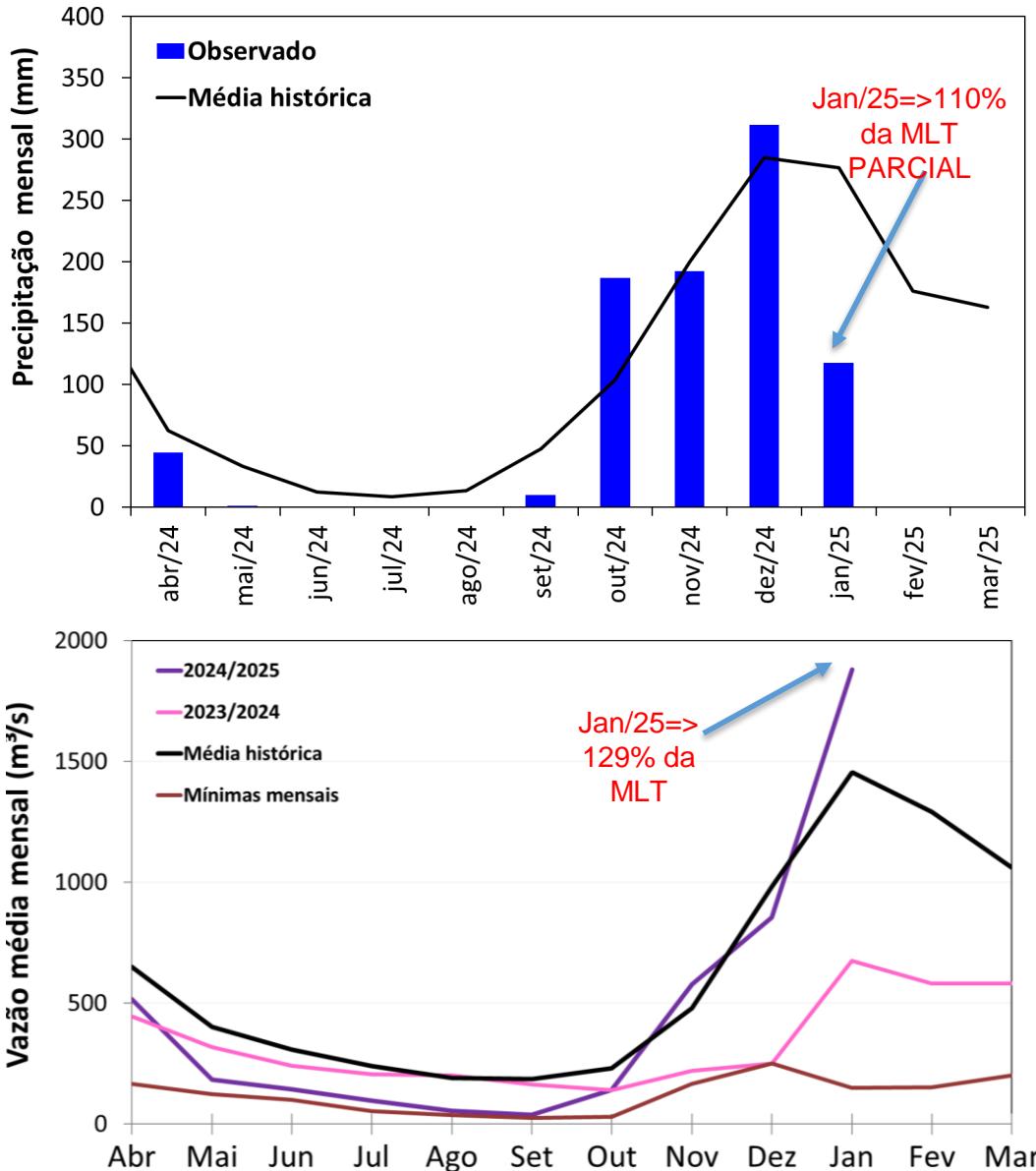
Anomalia de Precipitação (mm) A.S.  
Período: 01/10/2024 a 13/01/2025



# Precipitacao Bacia do Rio Sao\_Francisco desde JAN 2023



# Monitoramento UHE Três Marias



MLT: Média de Longo Término (1983-2023)

## Precipitação

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

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

2024/2025\*: 809 mm (117% da MLT PARCIAL)

### Estação Seca - Abr a Set - 178 mm

2023: 142 mm (79% da MLT)

2024: 57 mm (32% da MLT)

Dez/24: 312 mm (109% da MLT)

Jan/25\*: 118 mm (110% da MLT PARCIAL)

\*Até 12/01/2025

## Vazão

### Estação Chuvosa - Out a Mar - 917 m³/s

2023/2024: 408 m³/s (44% da MLT)

2024/2025\*\*: 863 m³/s (94% da MLT)

### Estação Seca - Abr a Set - 329 m³/s

2023: 262 m³/s (80% da MLT)

2024: 172 m³/s (52% da MLT)

Dez/24: 854 m³/s (87% da MLT)

Jan/25\*\*: 1879 m³/s (129% da MLT)

12/Jan/25: 2050 m³/s (141% da MLT)

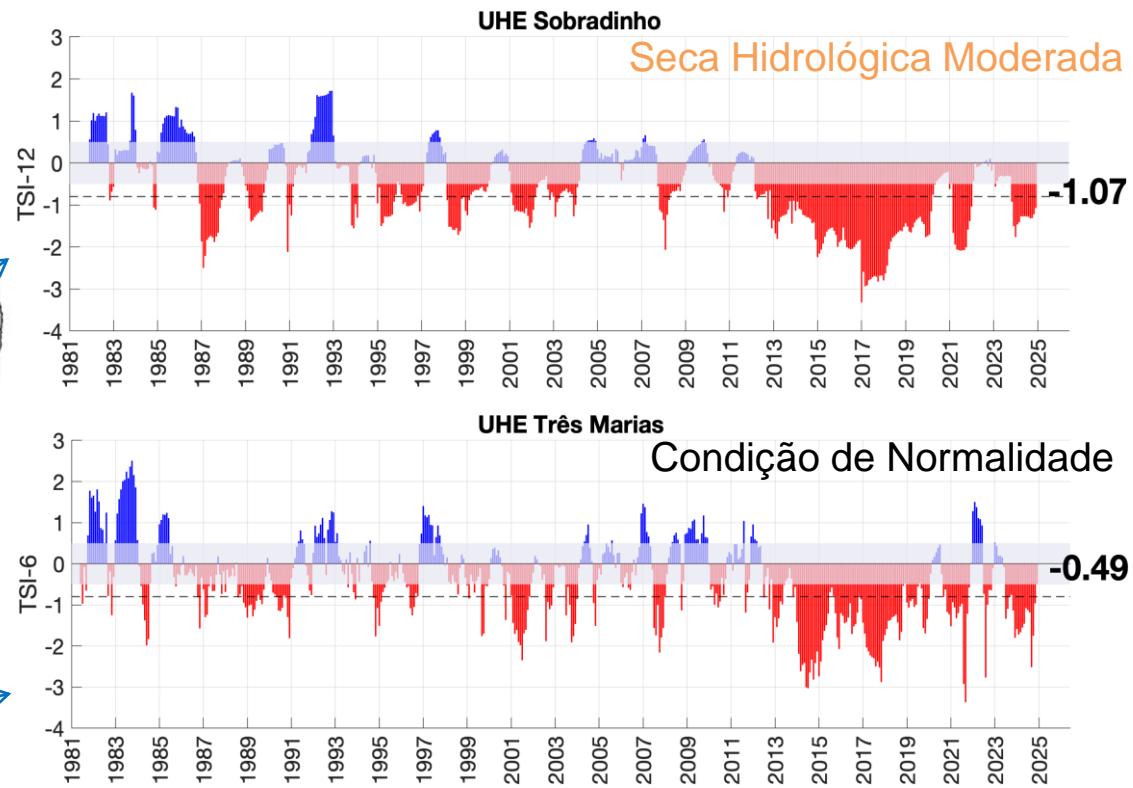
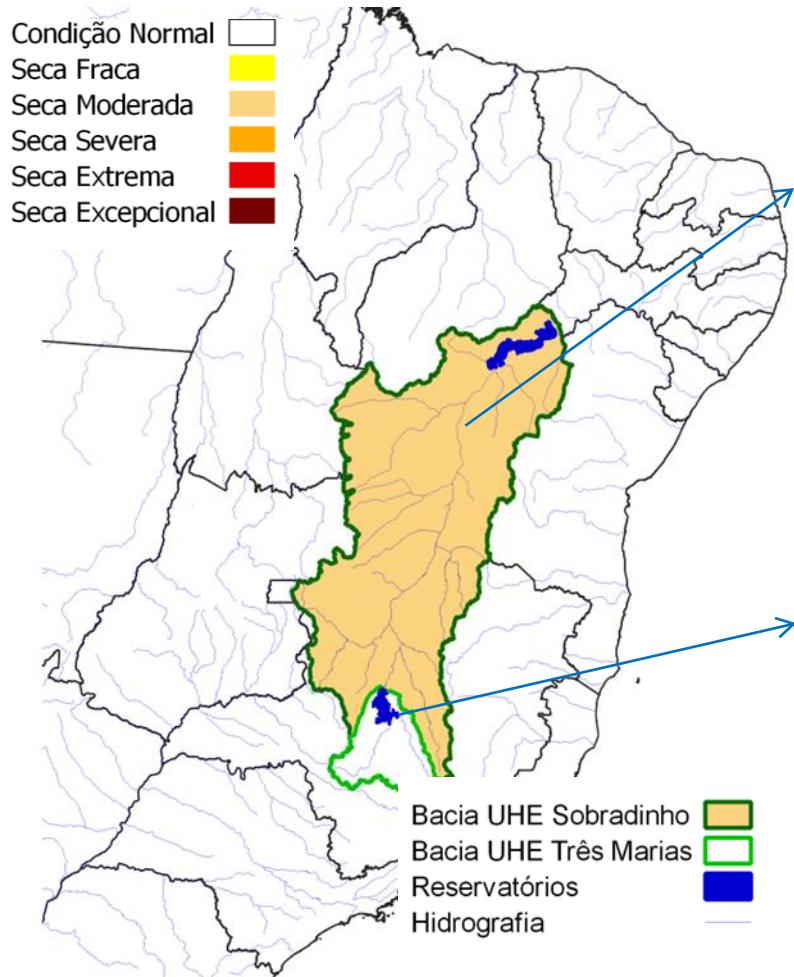
\*\*Até 12/01/2025

Dados de precipitação: INMET, ANA, CEMADEN.

Dados de vazão: ONS e ANA.

# Monitoramento UHE Três Marias e Sobradinho

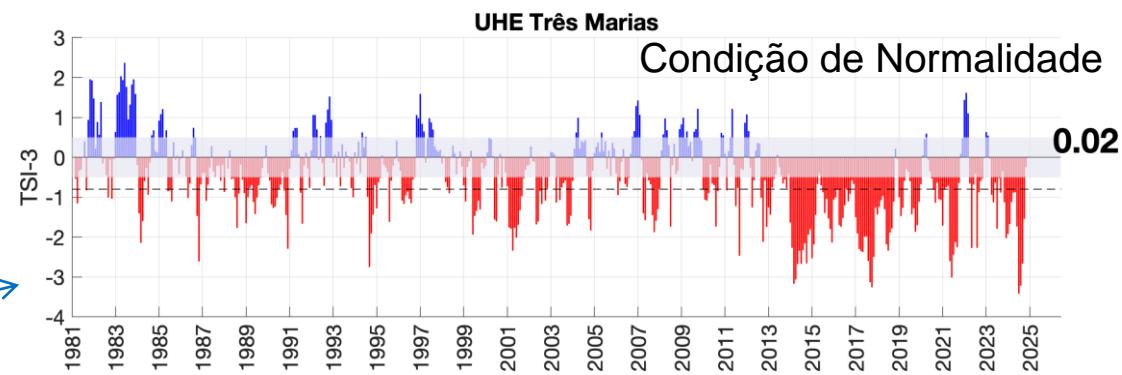
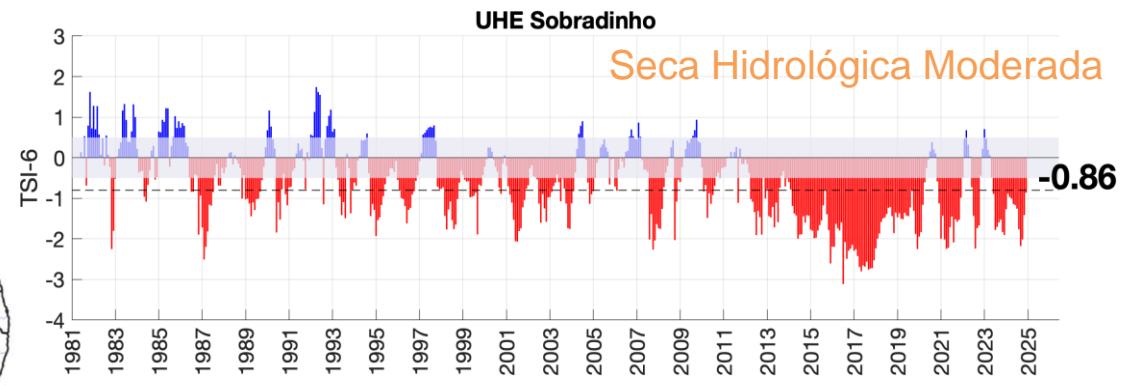
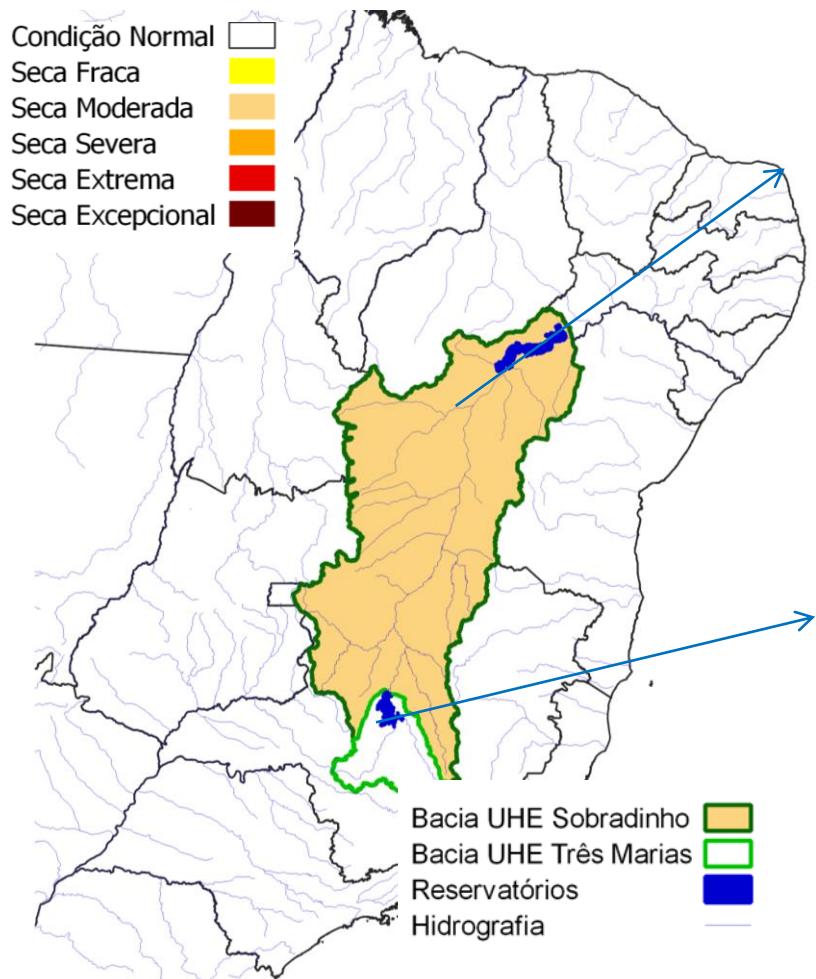
## Índice Padronizado Bivariado (Chuva-Vazão) – TSI6



Bacia afluente à UHE:	TSI-Nov	TSI-Dez
<b>Sobradinho</b>	Moderada (-1.22)	Moderada (-1.07)
<b>Três Marias</b>	Moderada (-0.96)	Normal (-0.49)

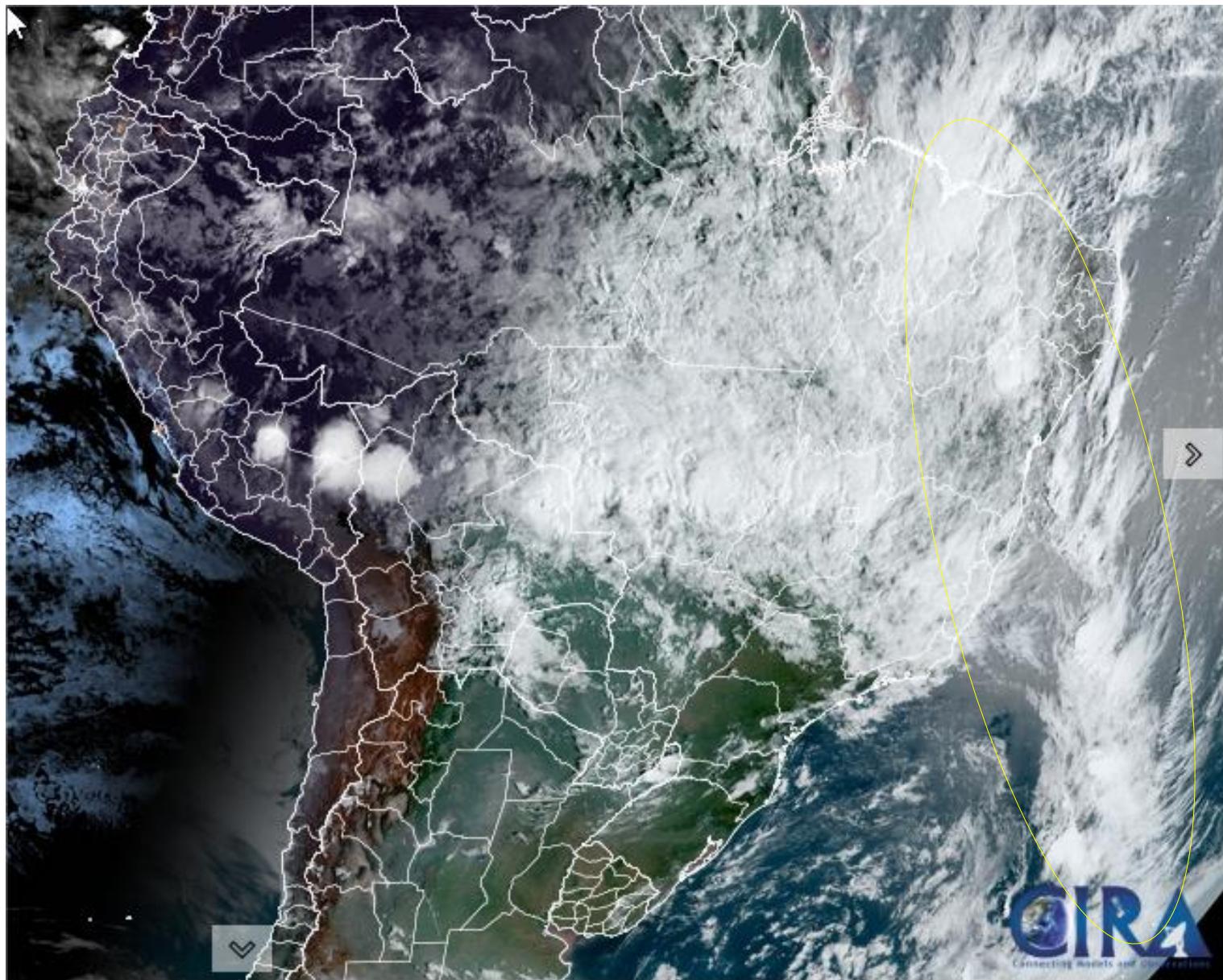
# Monitoramento UHE Três Marias e Sobradinho

## Índice Padronizado Bivariado (Chuva-Vazão) – TSI3

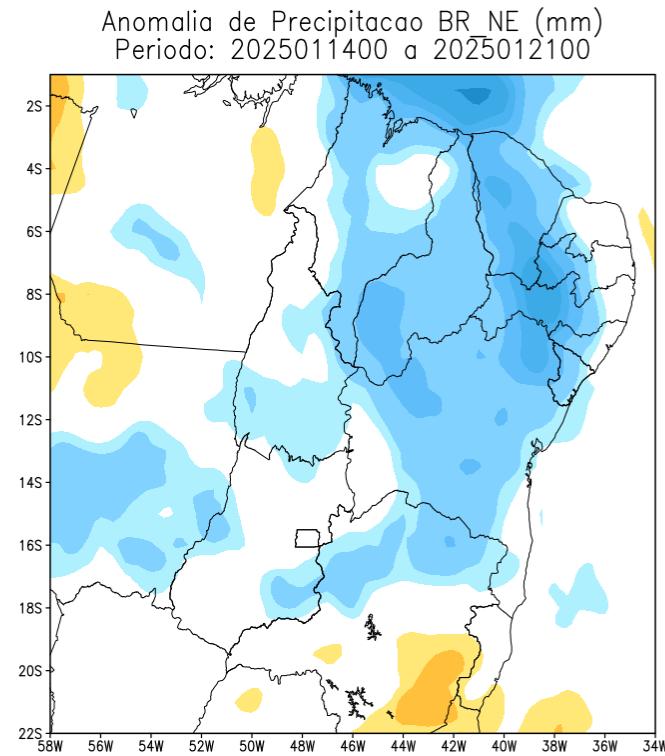
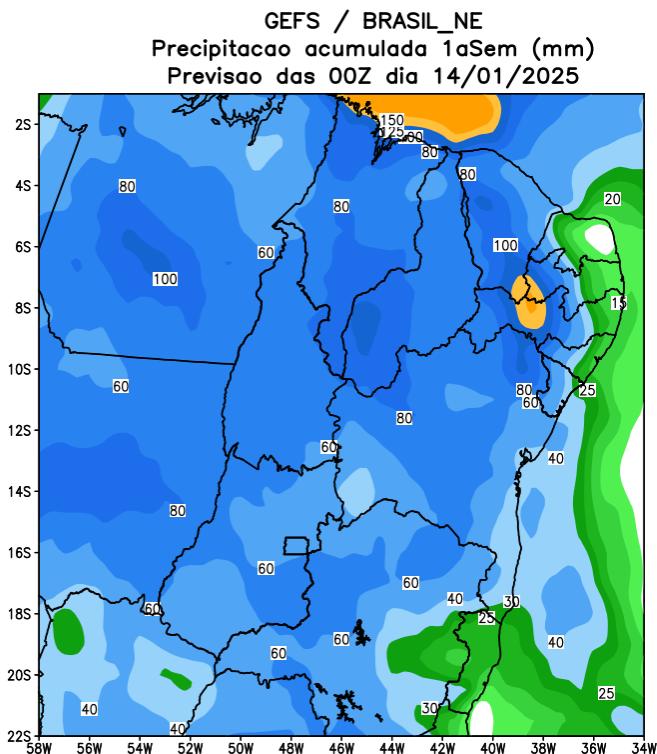


Bacia afluente à UHE:	TSI-Nov	TSI-Dez
<b>Sobradinho</b>	Severa (-1.41)	Moderada (-0.86)
<b>Três Marias</b>	Normal (-0.24)	Normal (0.02)

# Situação meteorológica atual



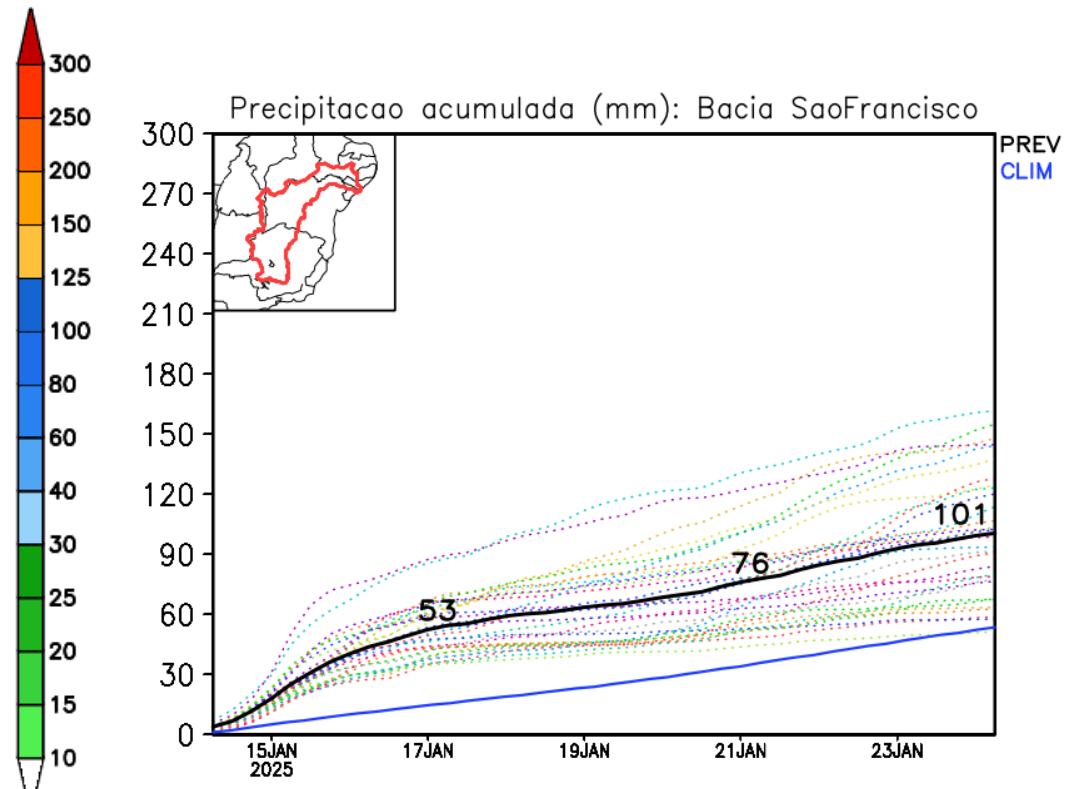
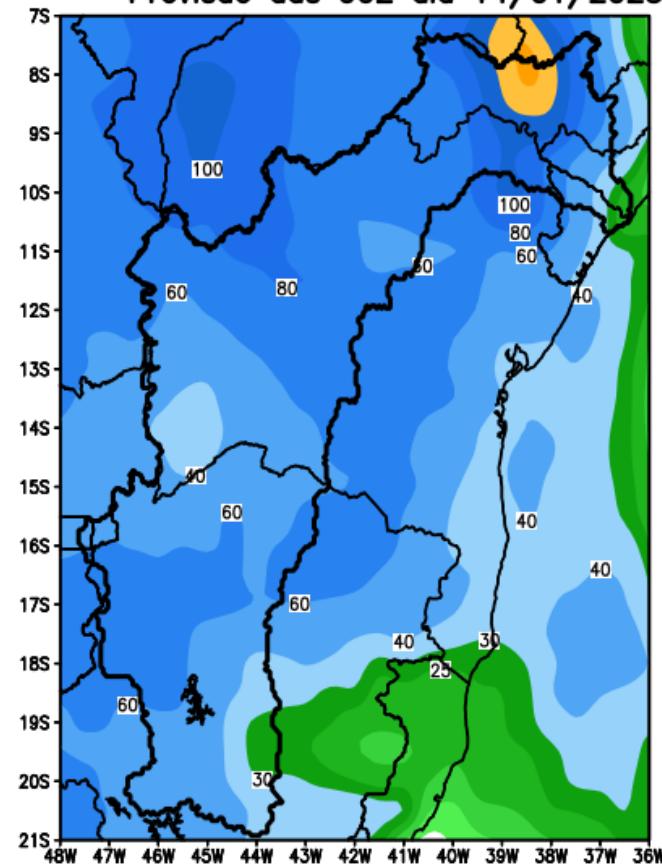
# Previsão de chuva próximos 7 dias



Fonte: GEFS/NOAA

# Bacia do rio São Francisco

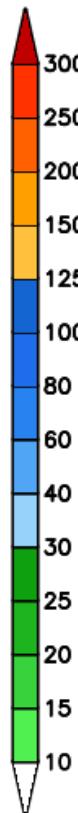
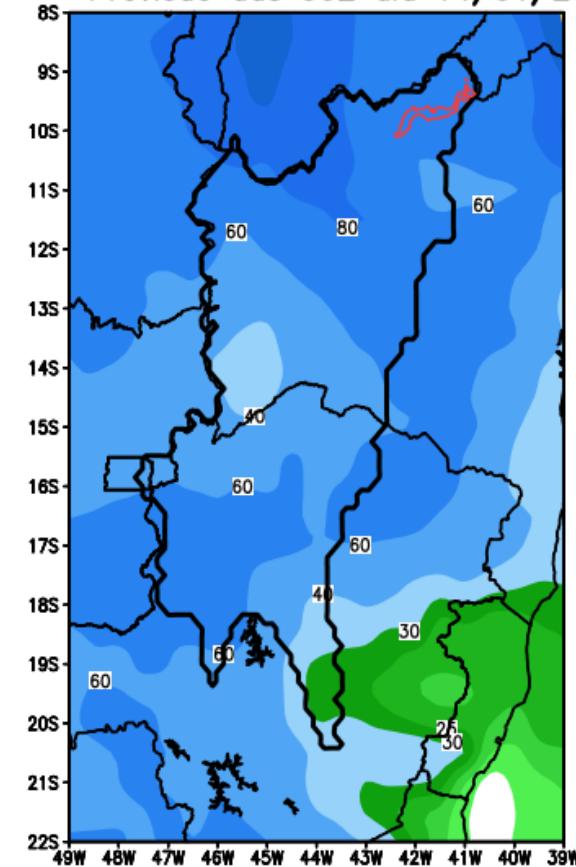
GEFS / Bacia do Rio São Francisco  
Precipitação acumulada em 7 dias (mm)  
Previsão das 00Z dia 14/01/2025



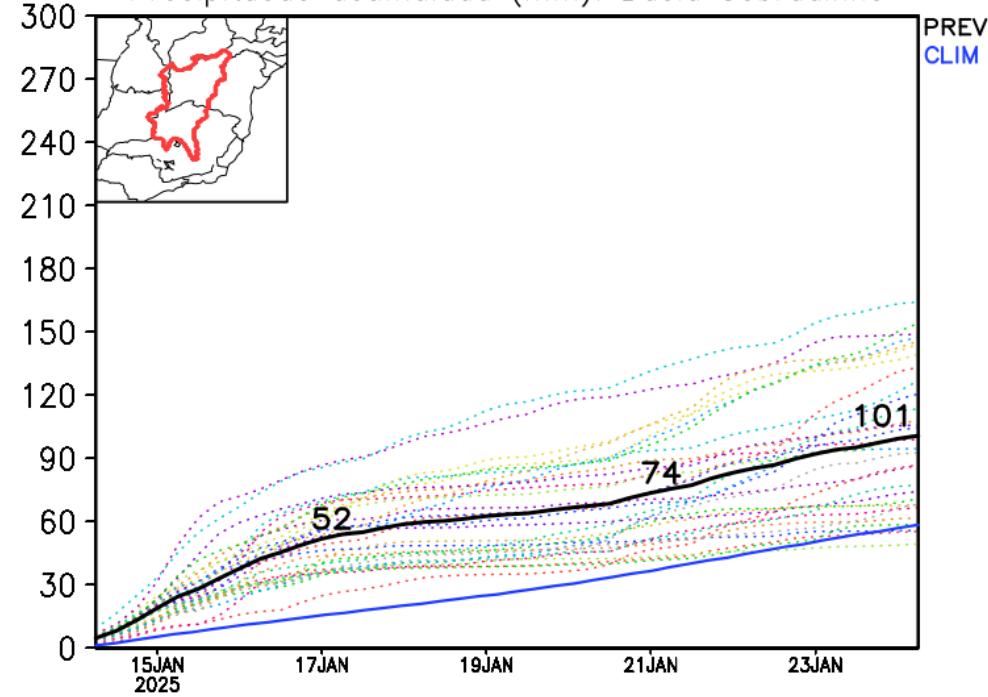
# Bacia de Sobradinho

GEFS / Sobradinho

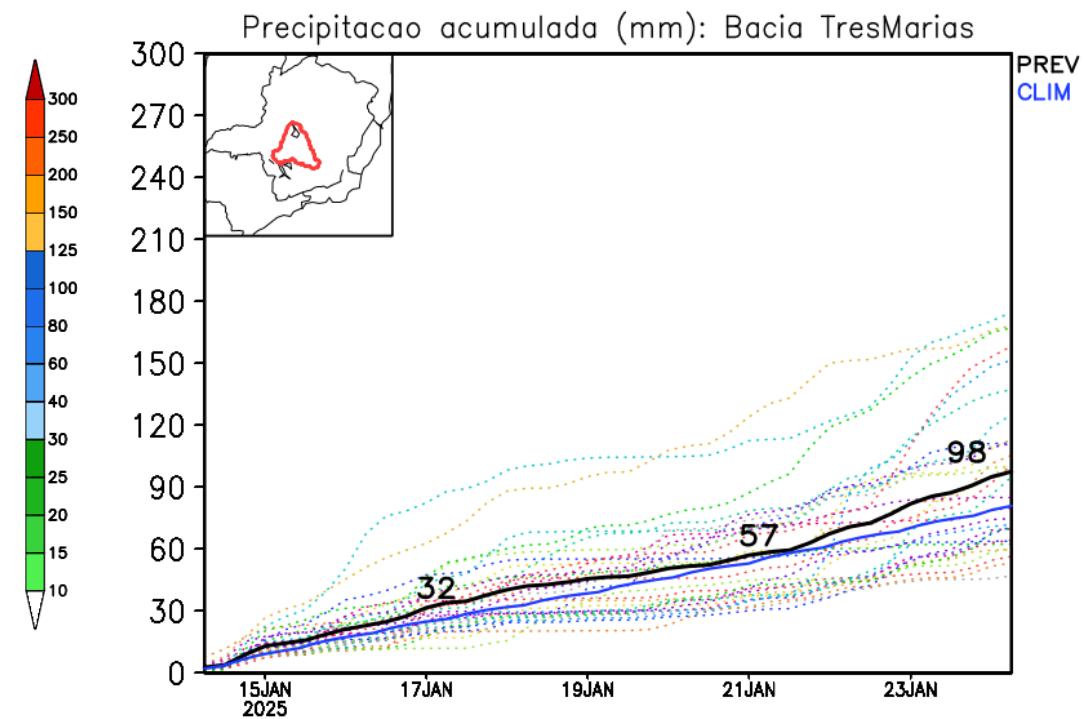
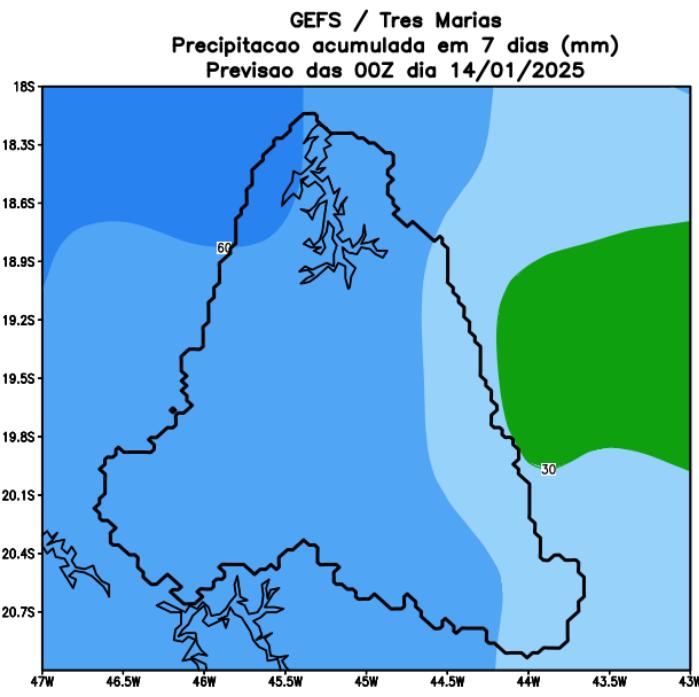
Precipitacao acumulada em 7 dias (mm)  
Previsao das 00Z dia 14/01/2025



Precipitacao acumulada (mm): Bacia Sobradinho

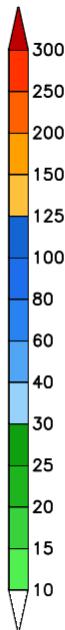
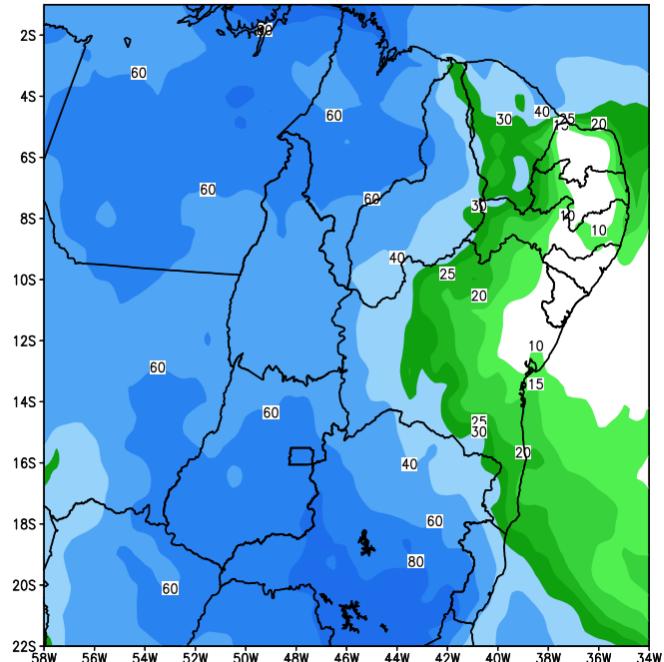


# Bacia de Três Marias

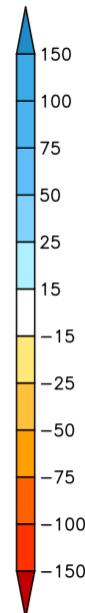
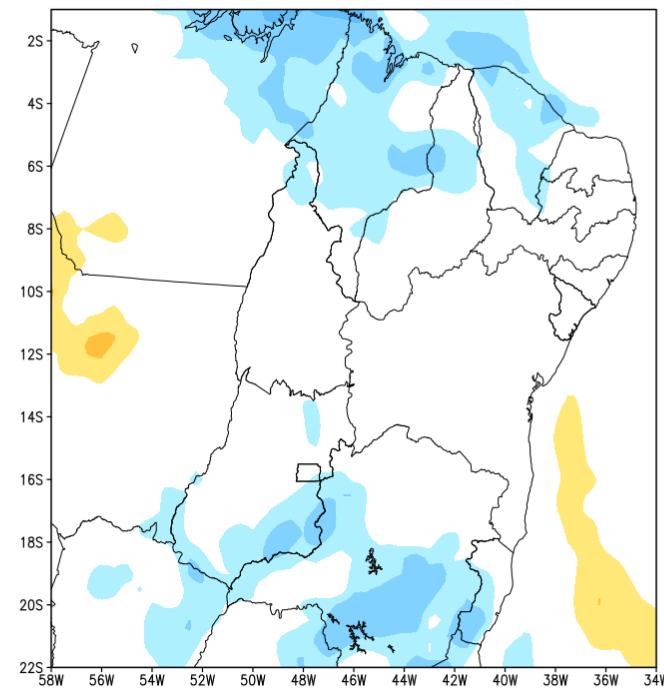


# Tendência para a 2a semana

GEFS / BRASIL\_NE  
Precipitacao acumulada 2aSem (mm)  
Previsao das 00Z dia 14/01/2025



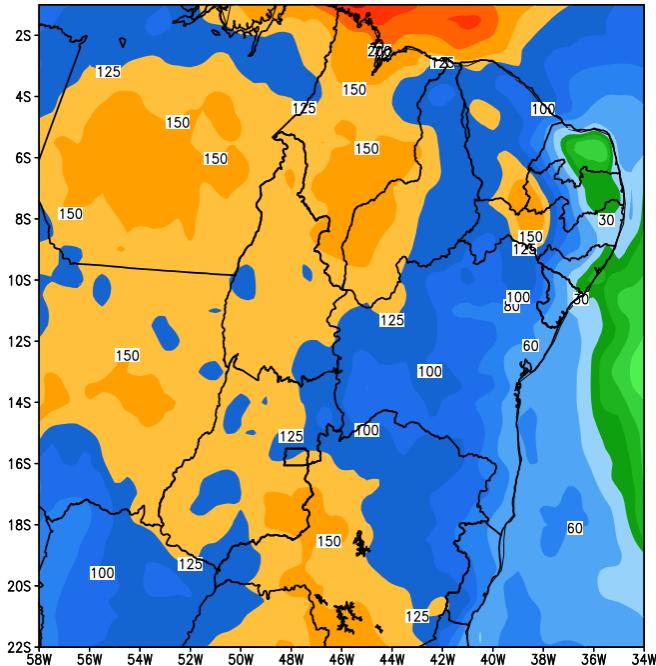
Anomalia de Precipitacao BR NE (mm)  
Periodo: 2025012200 a 2025012800



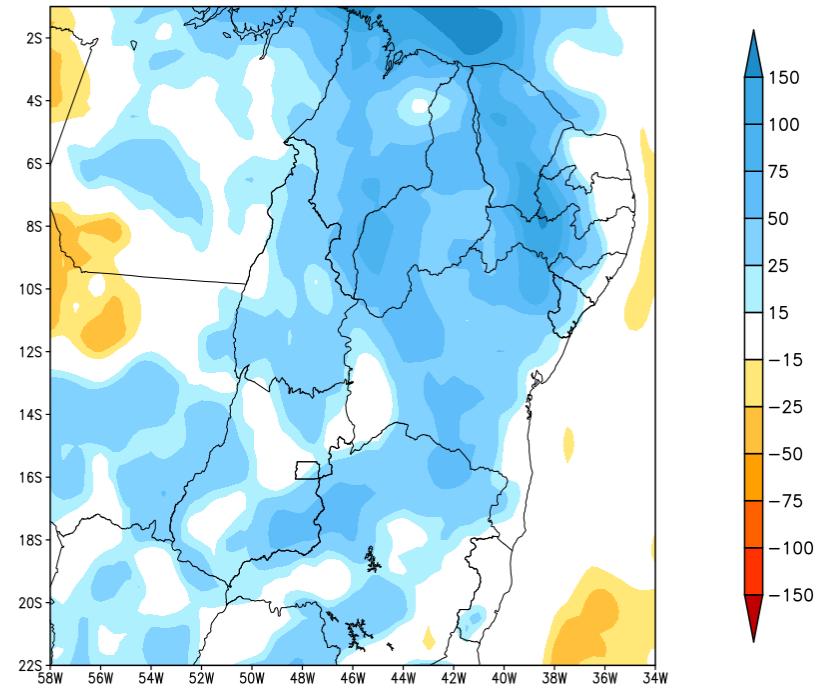
Modelo GFS/NOAA

# Tendência para as duas próximas semanas

GEFS / BRASIL\_NE  
Precipitacao acumulada 14dias (mm)  
Previsao das 00Z dia 14/01/2025



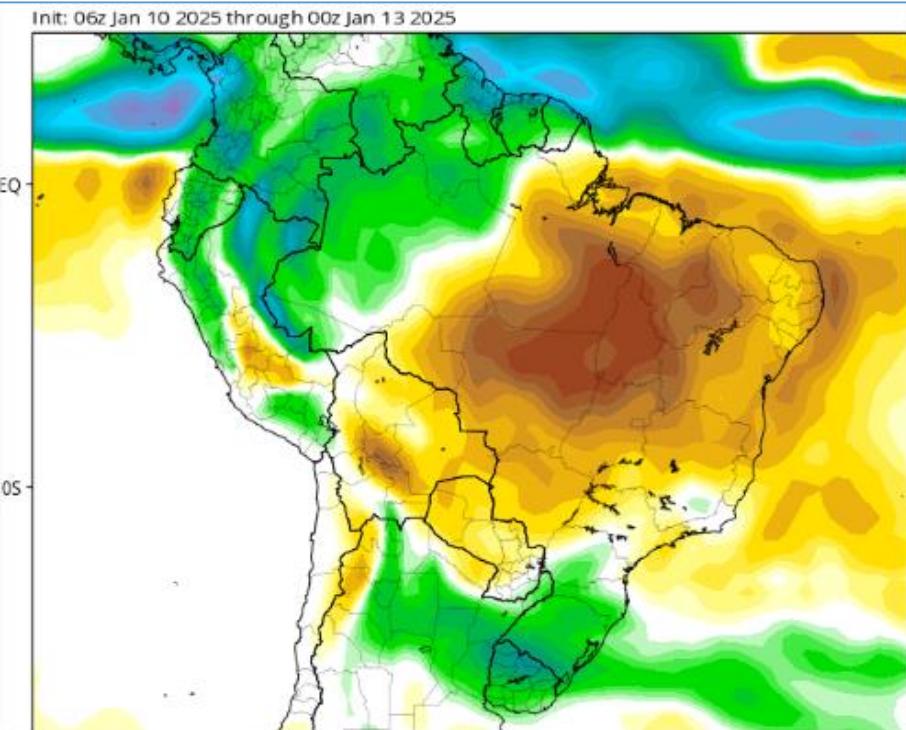
Anomalia de Precipitacao BR\_NE (mm)  
Periodo: 2025011400 a 2025012800



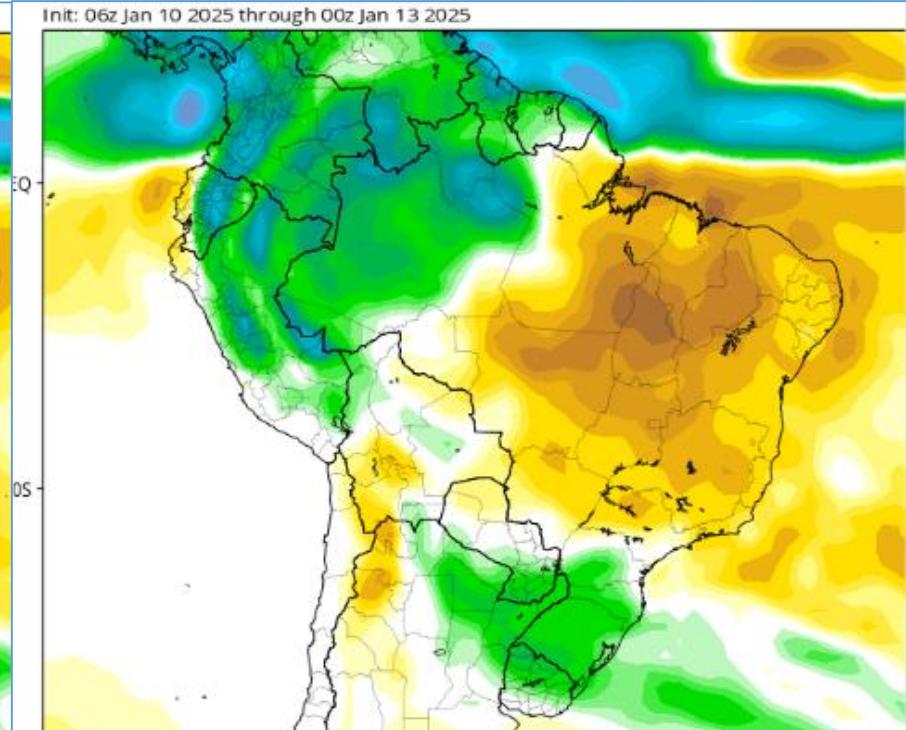
Modelo GFS/NOAA

## Tendência 3a e 4a semanas

27 Jan -03 Fev

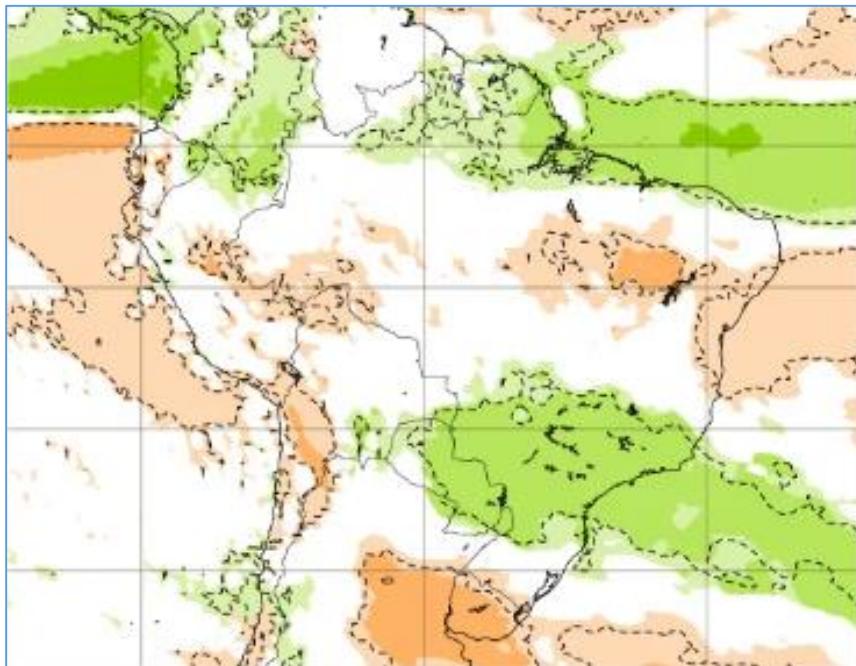


03-10 Fev

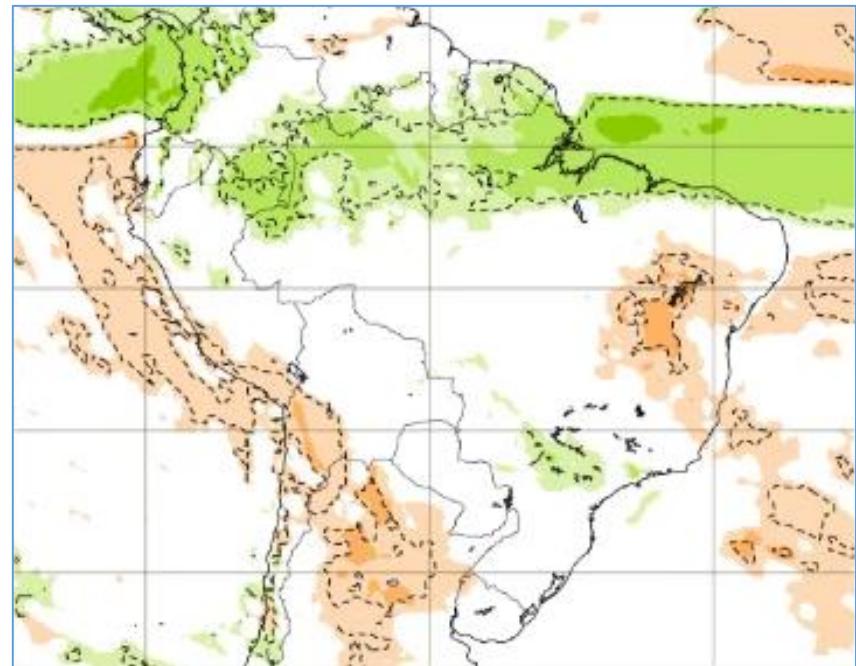


## Tendência para 3<sup>a</sup> e 4<sup>a</sup> semanas

27 Jan -03 Fev

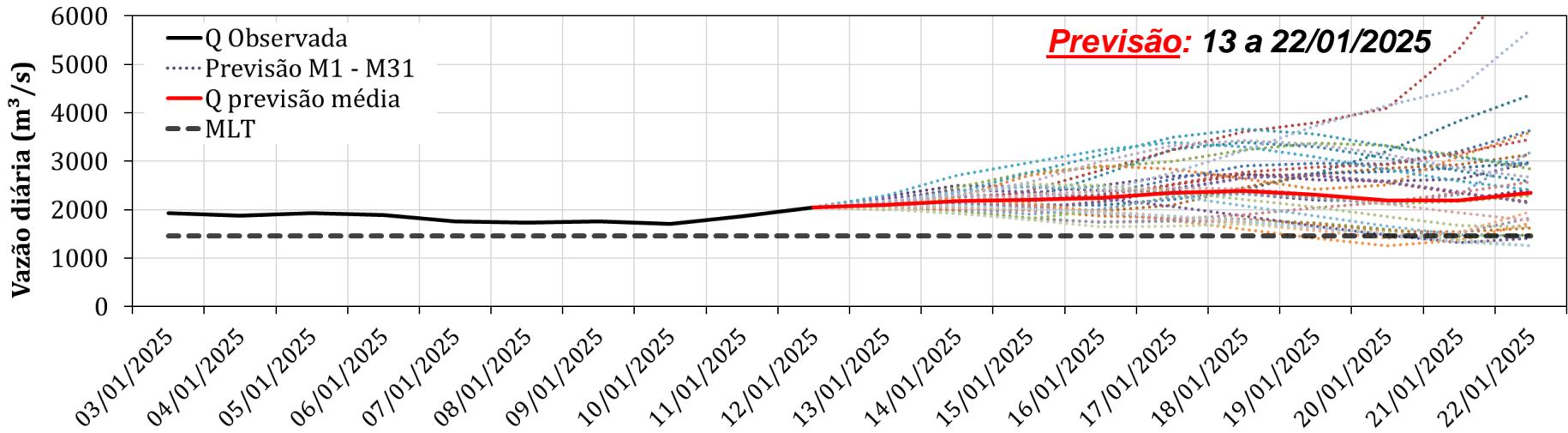
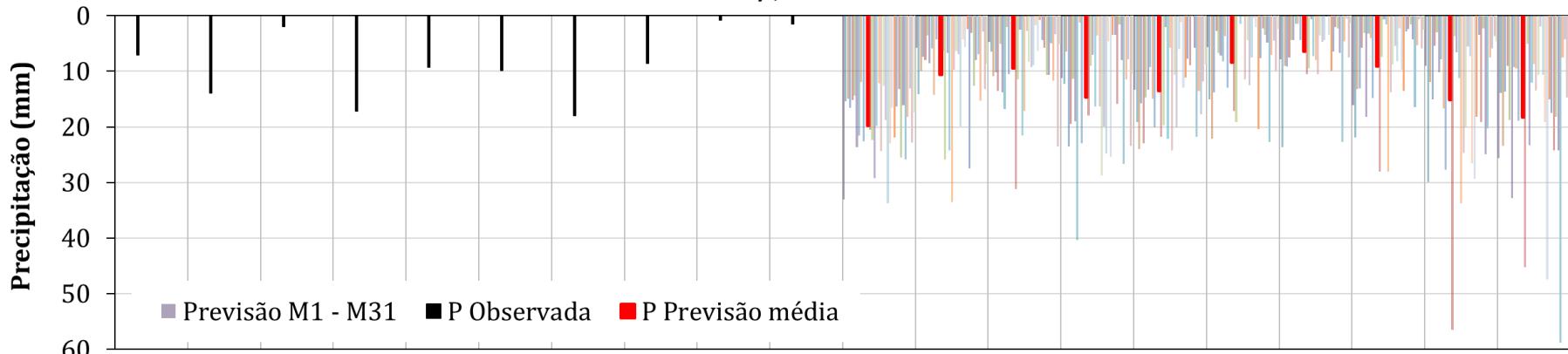


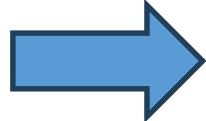
03-10 Fev



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

Vazão Natural e Precipitação Diárias para Três Marias  
03 a 22/Janeiro de 2025

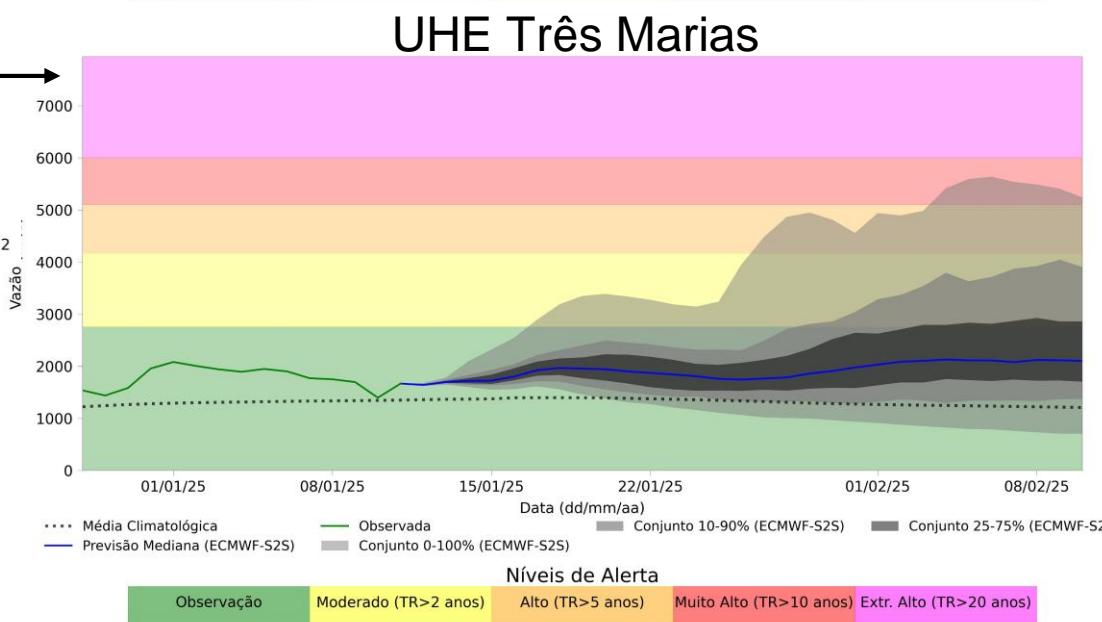
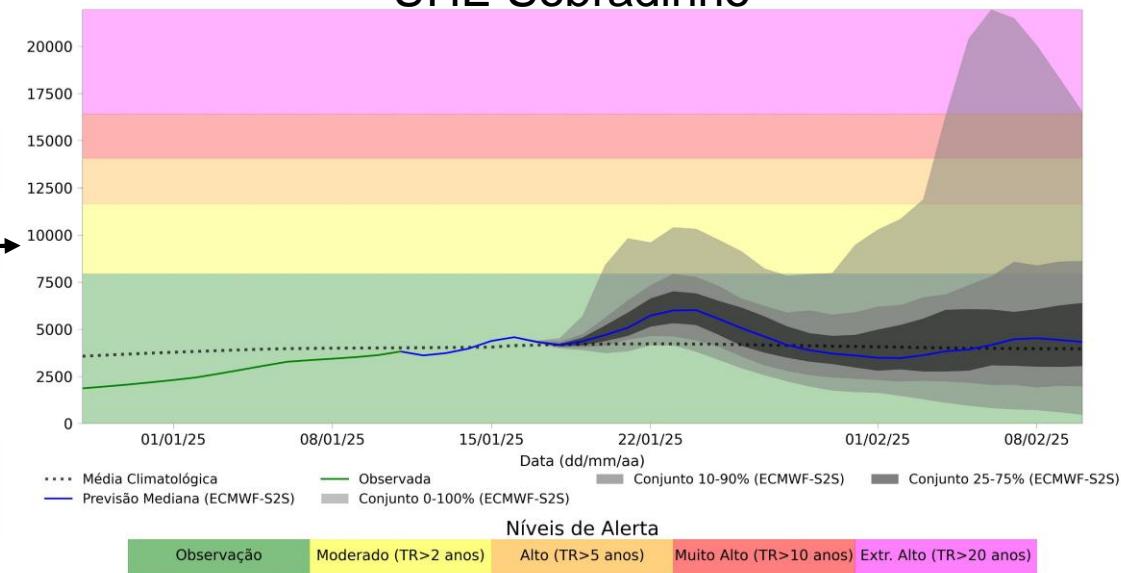
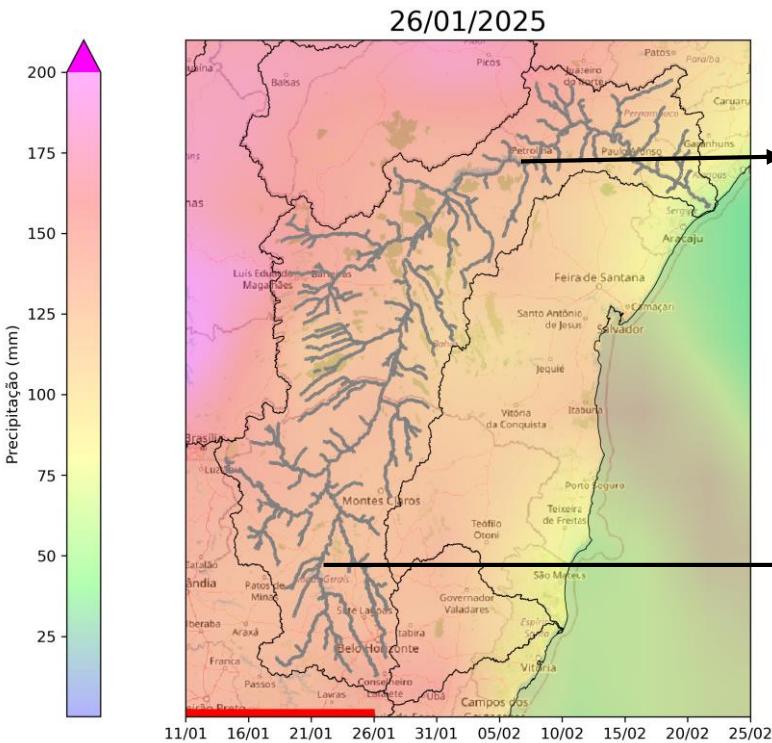


Previsão média para  
os próximos 10 dias: 2252  $\text{m}^3/\text{s}$   155% da MLT de Janeiro

# Previsão de vazão natural na Bacia Rio São Francisco (Modelo hidrológico MHD)

UHE Sobradinho

Previsão: 11/01/2025 a 10/02/2025

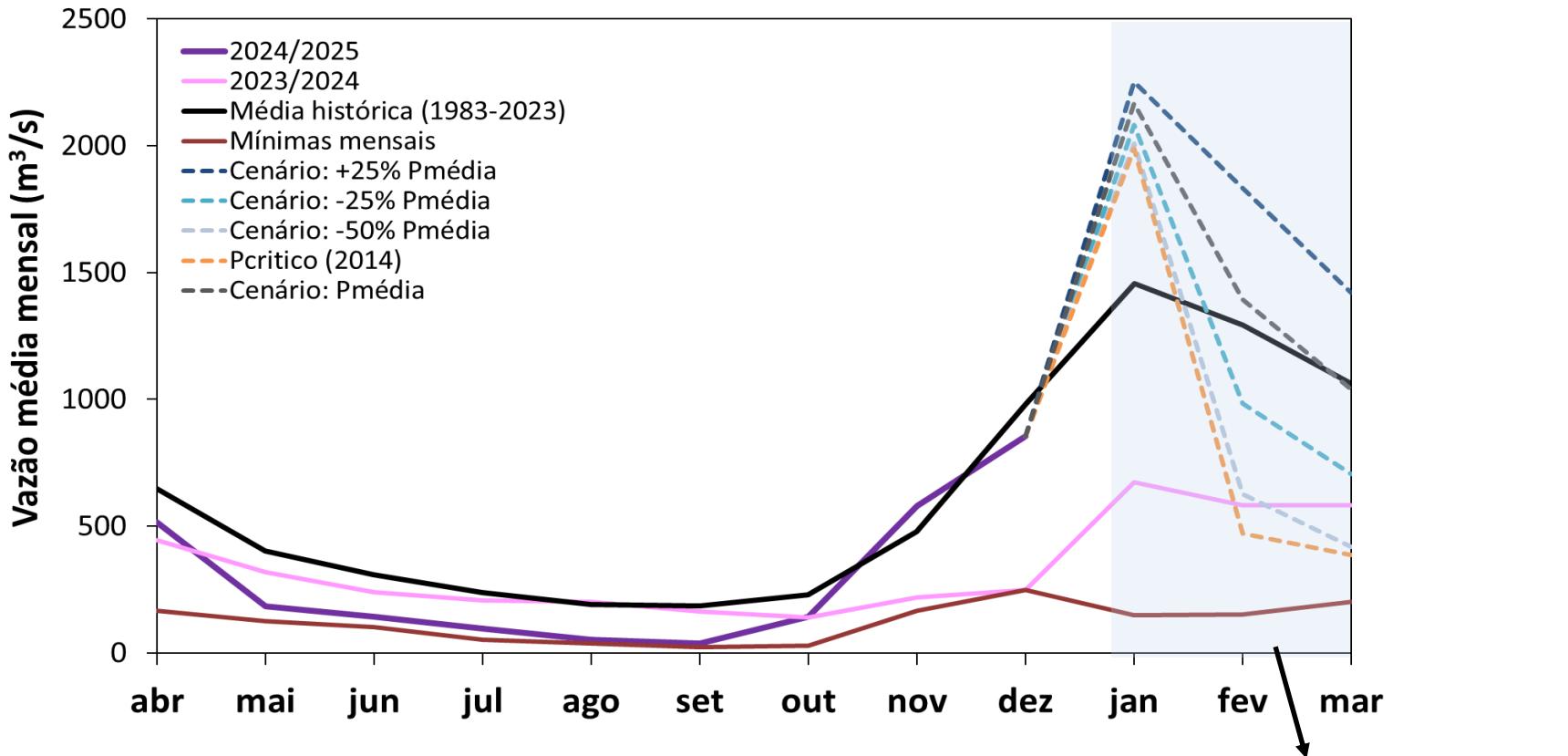


Fonte: Meteorologia (INMET/MERGE); Vazão (ANA/ONS)

MLT: 2003-2023

Previsão Meteorológica: ECMWF

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



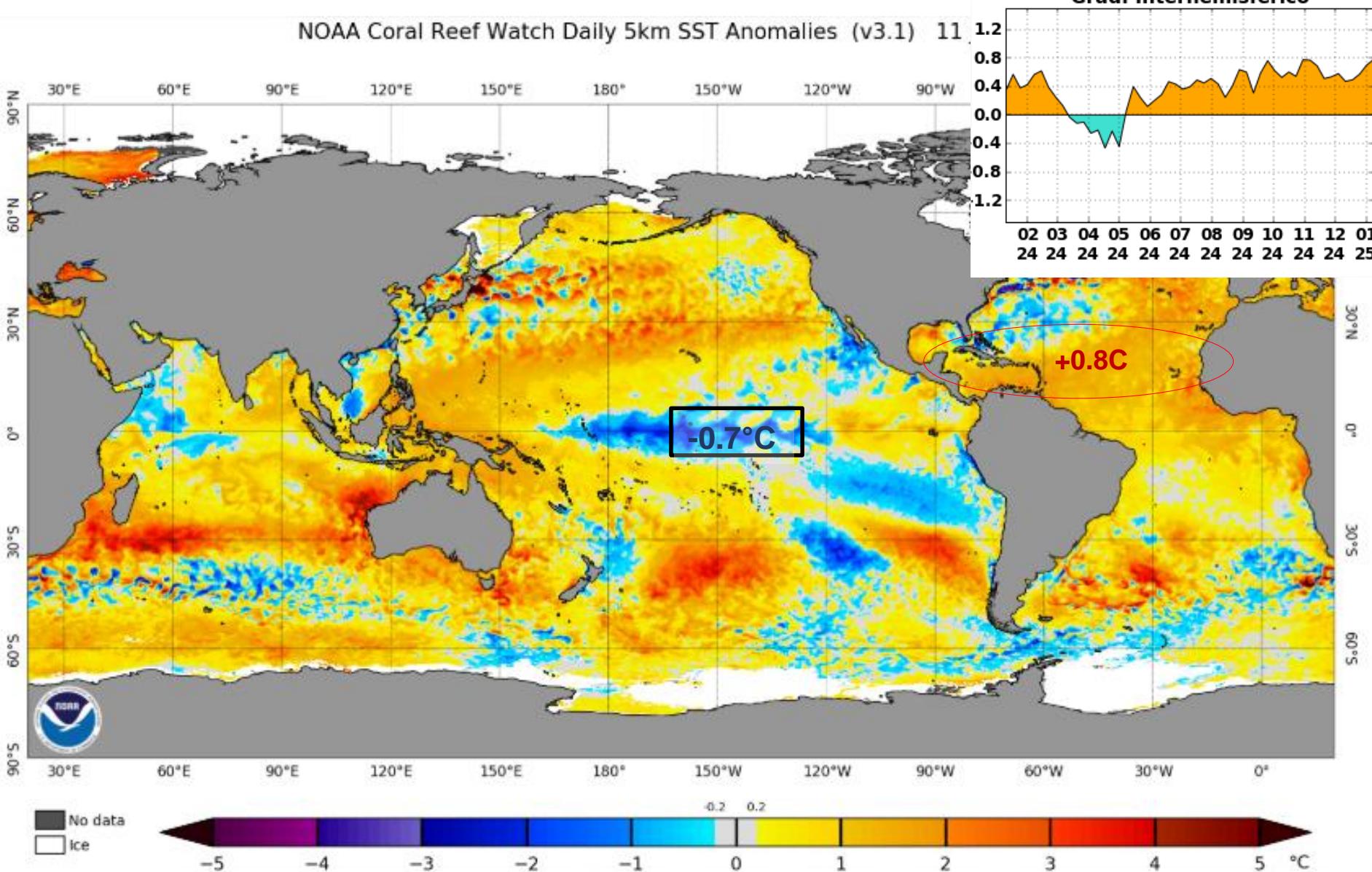
Jan-Mar (Meses Chuvosos)  
MLT: 1270  $m^3/s$

Vazão	% MLT
1835 $m^3/s$	145%
1532 $m^3/s$	121%
1257 $m^3/s$	99%
949 $m^3/s$	75%

# Status Atual: La Niña <=

Grad. Interhemisférico

NOAA Coral Reef Watch Daily 5km SST Anomalies (v3.1) 11



FONTE: NOAA

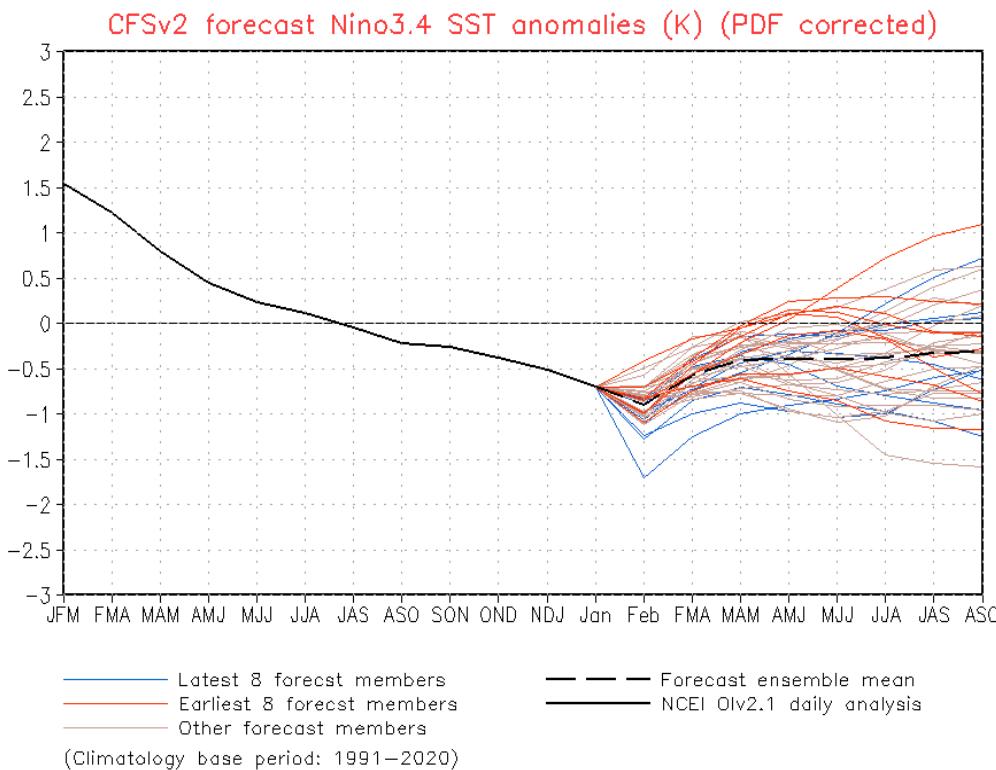
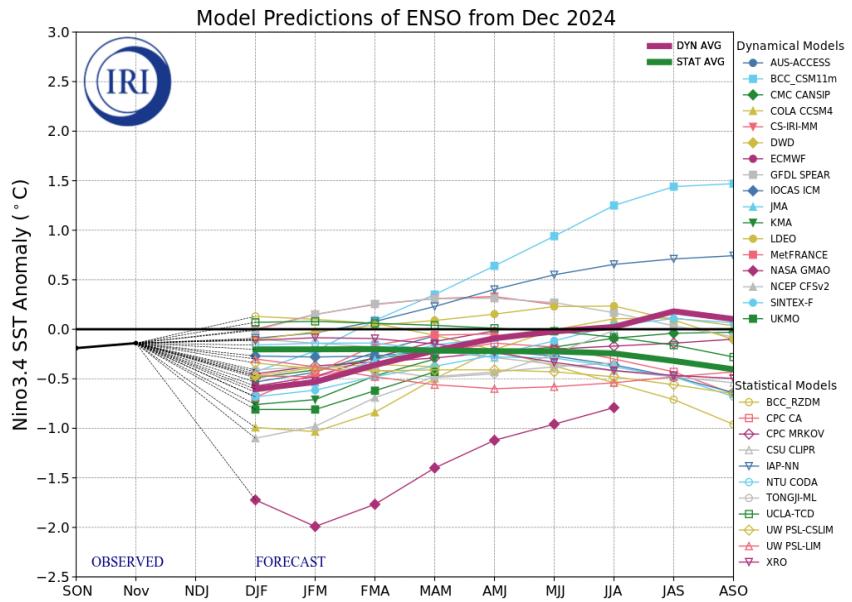
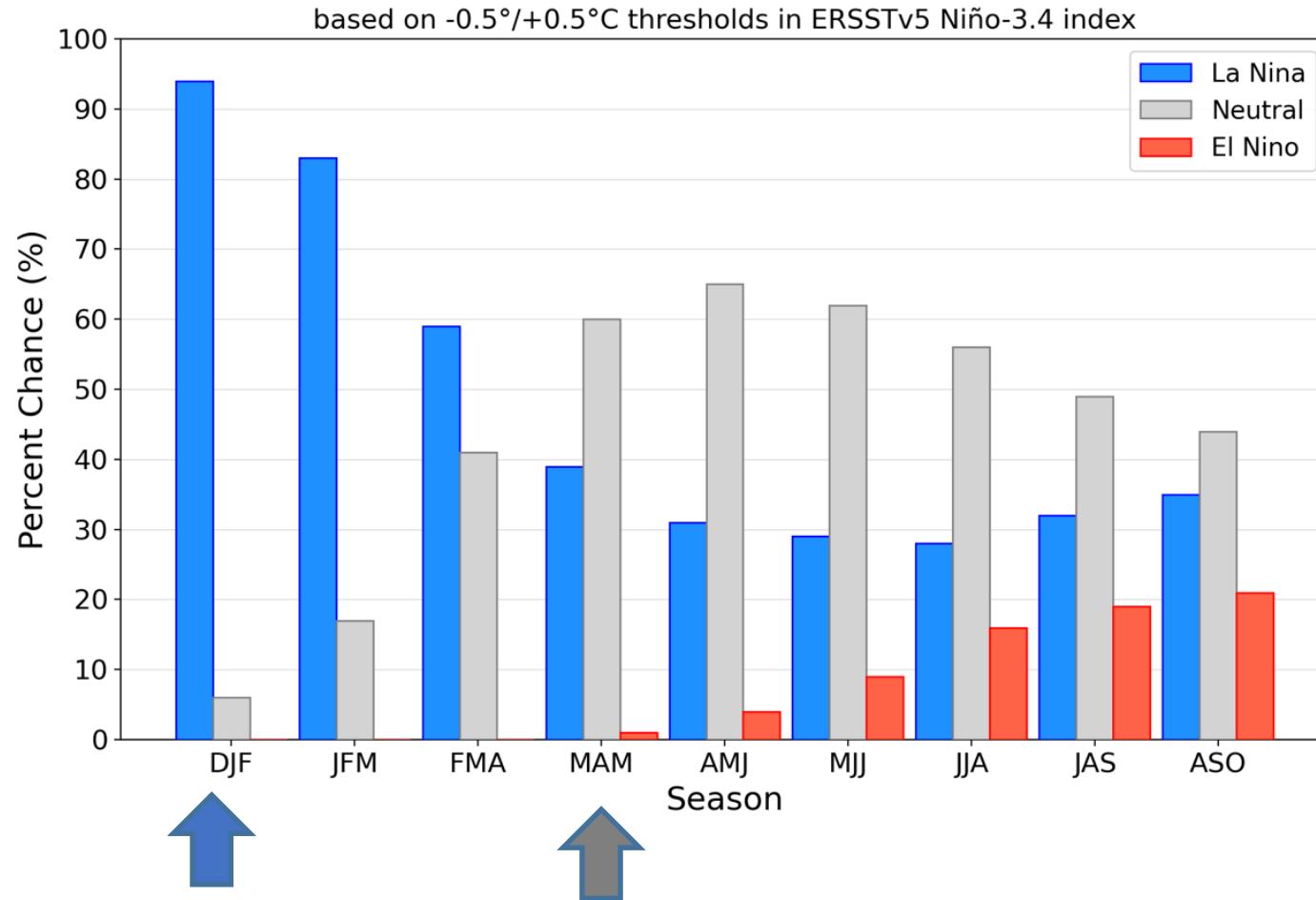


Figure provided by the International Research Institute (IRI) for Climate and Society (updated 19 December 2024).

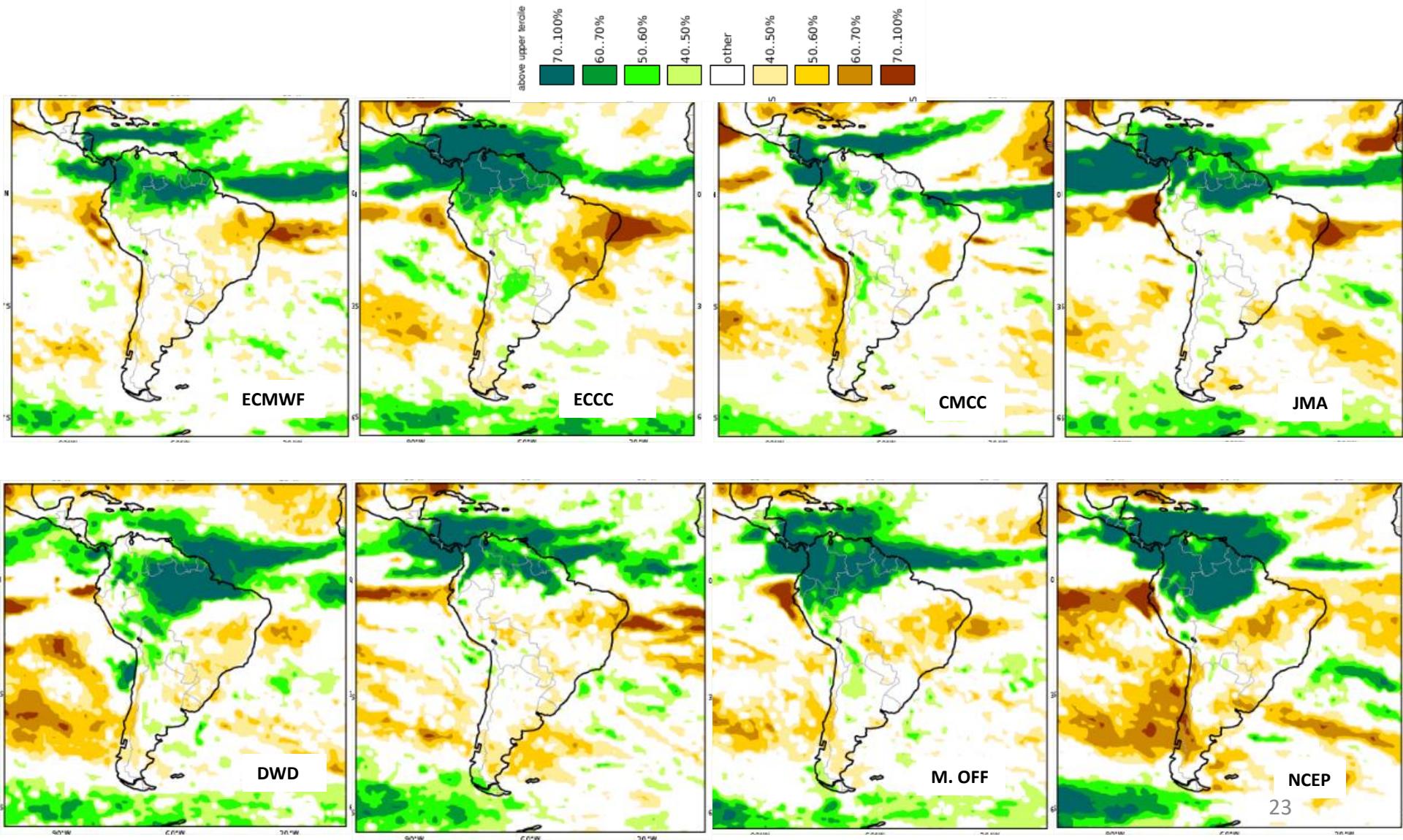
Atualizado 13 de janeiro de 2025

# Previsão do “ENSO”

Official NOAA CPC ENSO Probabilities (issued January 2025)

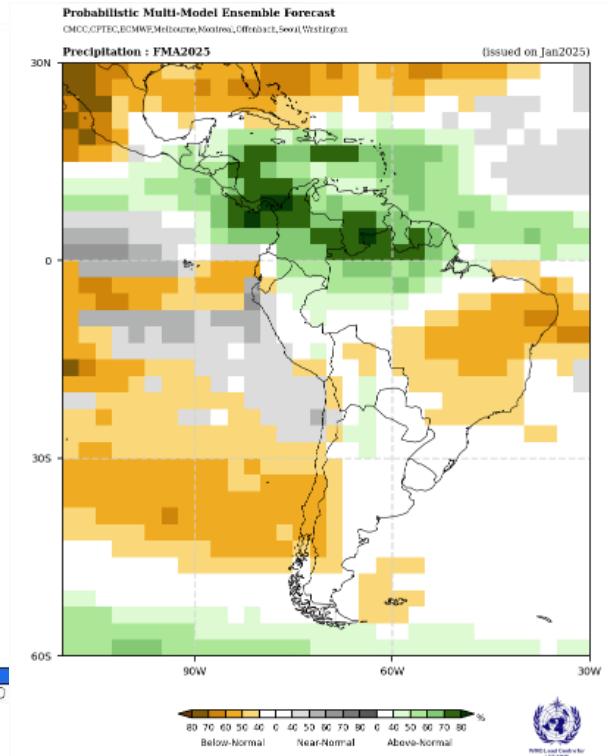
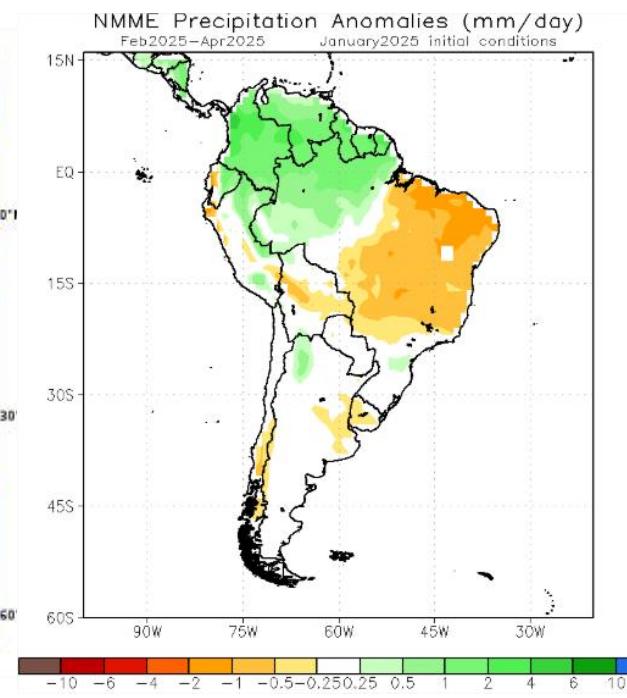
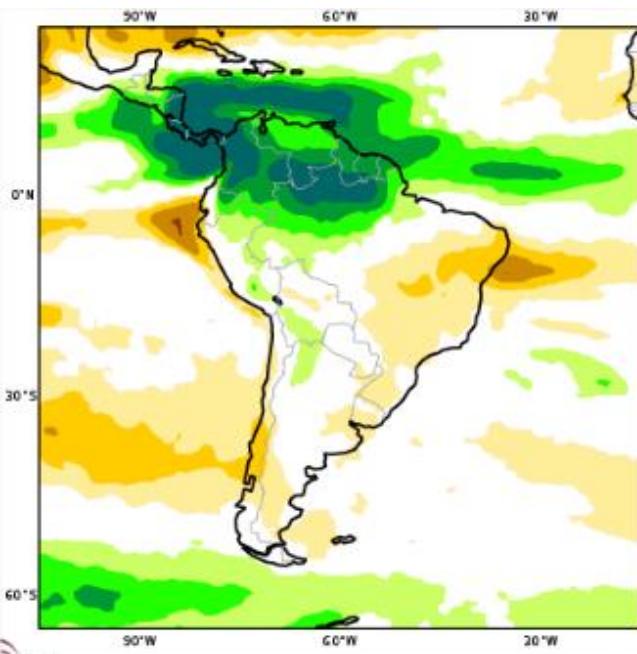


## Previsão Sazonal de Chuva FMA



# Previsão Sazonal de Chuva Multi-Modelo

Fevereiro-Março Abril



Modelos Europeus

Modelos Norte Americanos

Modelos da WMO