



# CEMADEN

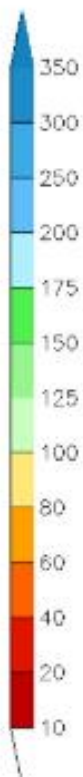
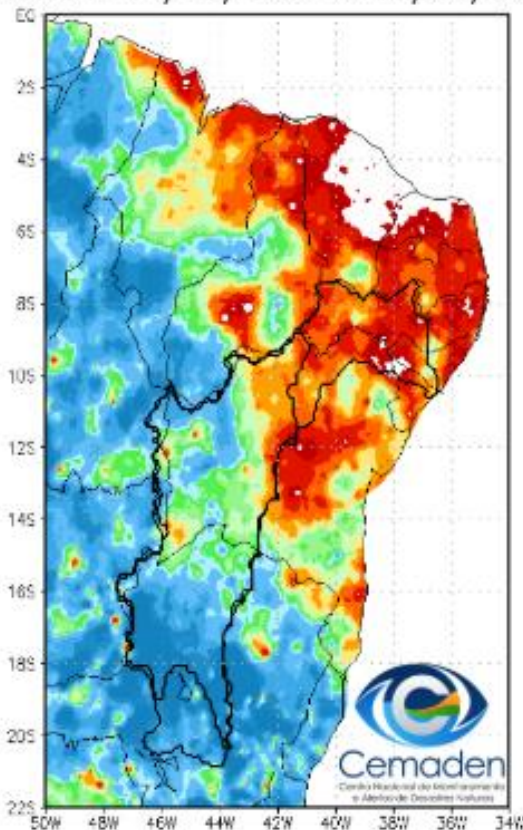
**Centro Nacional de Monitoramento e  
Alertas de Desastres Naturais**

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

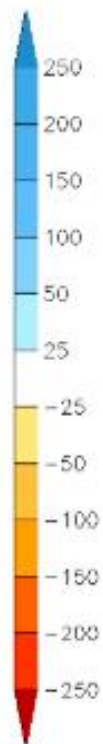
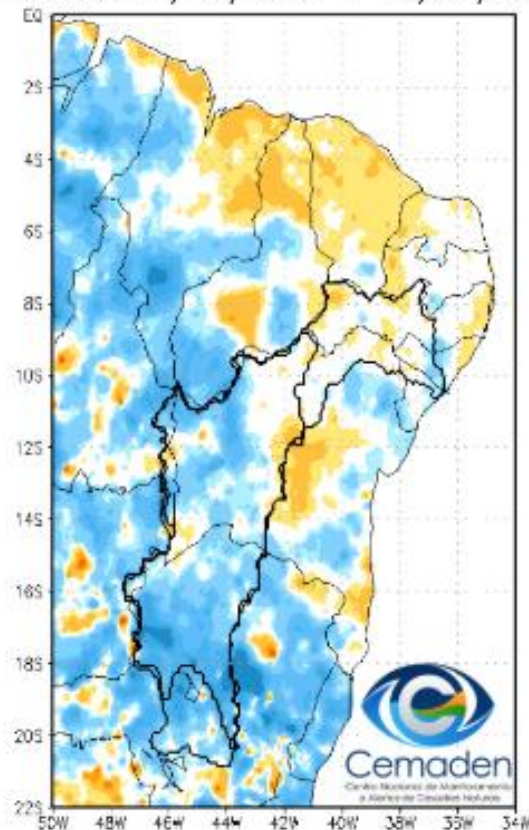
14 de Janeiro de 2025

## Chuva dos últimos 30 dias

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



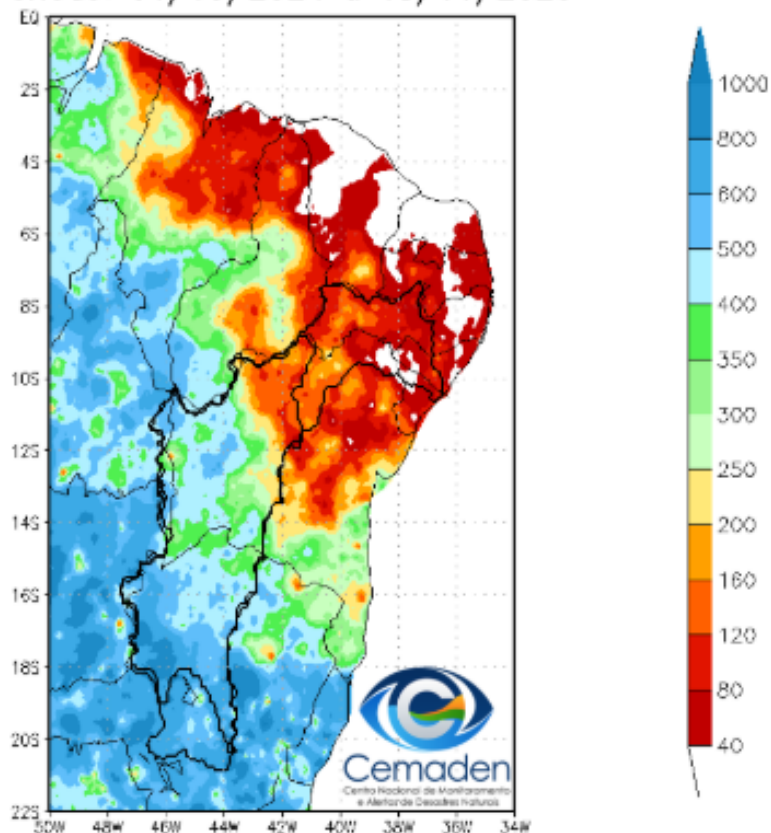
Anomalia de Precipitacao (mm) A.S.  
Período: 14/12/2024 a 13/01/2025



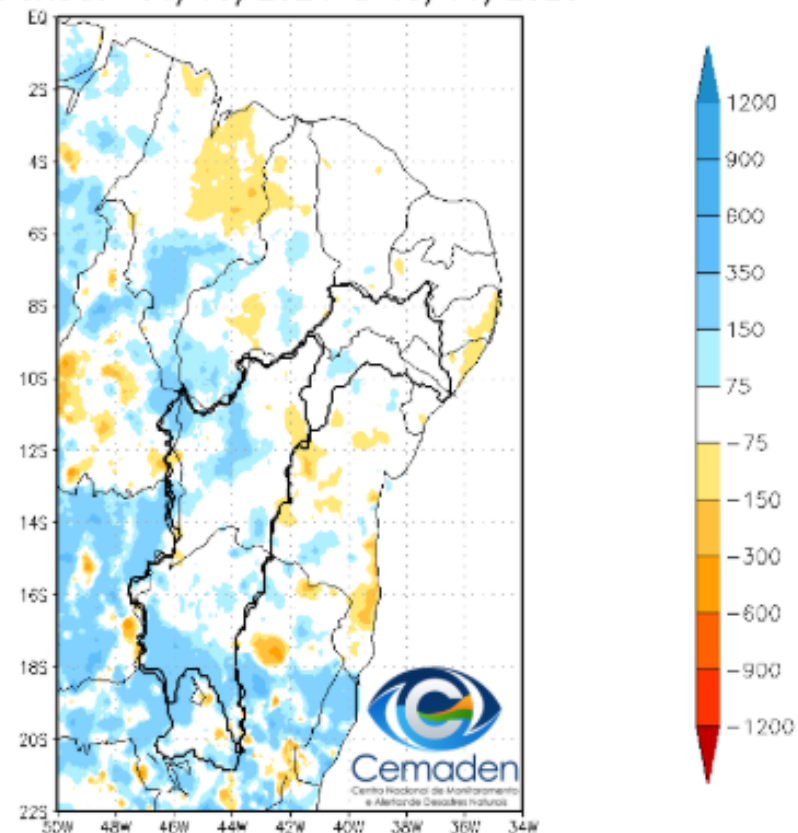


## Chuva no Ano Hidrológico - desde 01/10/2023

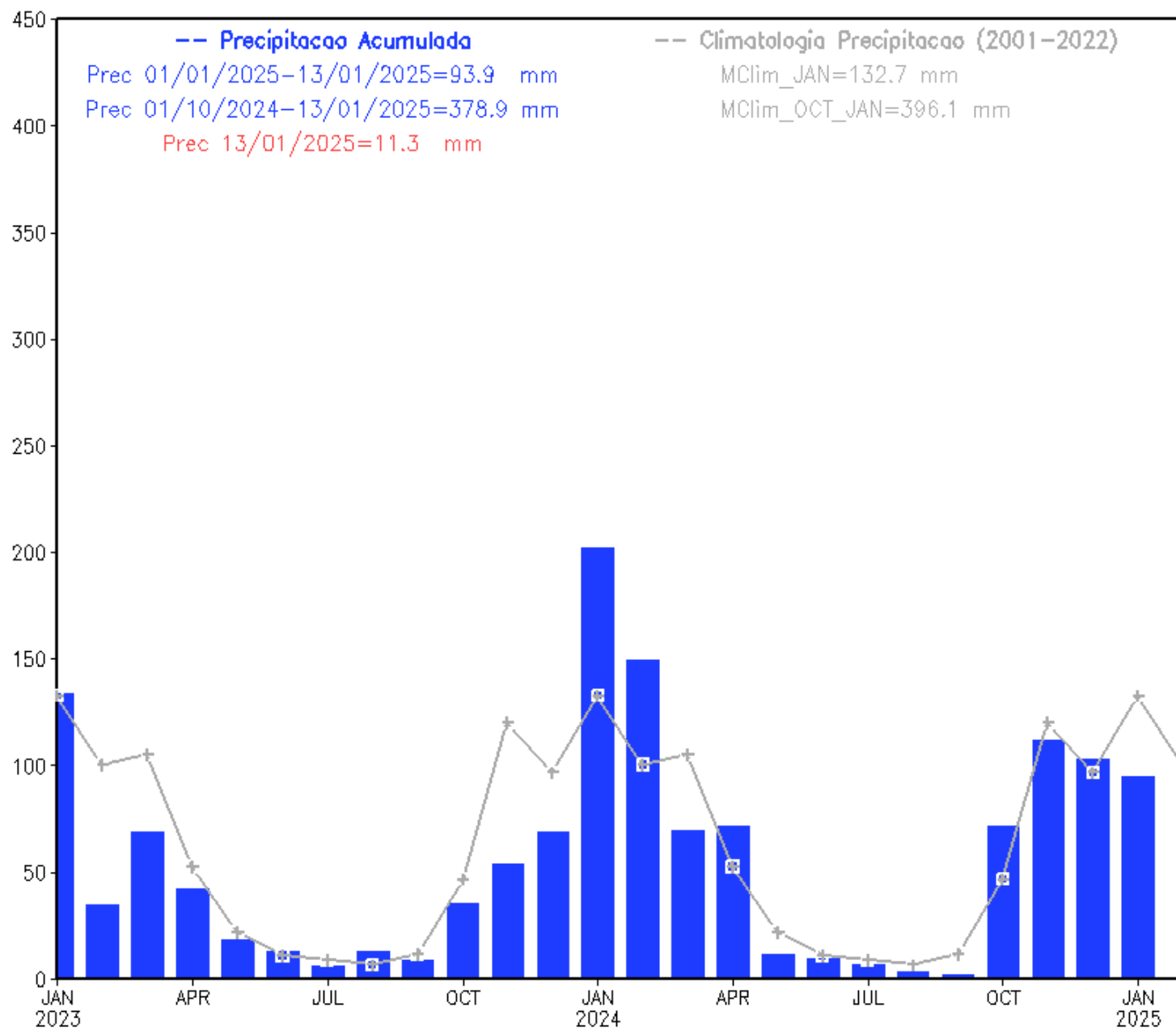
Precipitação Acumulada (mm) A.S.  
Período: 01/10/2024 a 13/01/2025



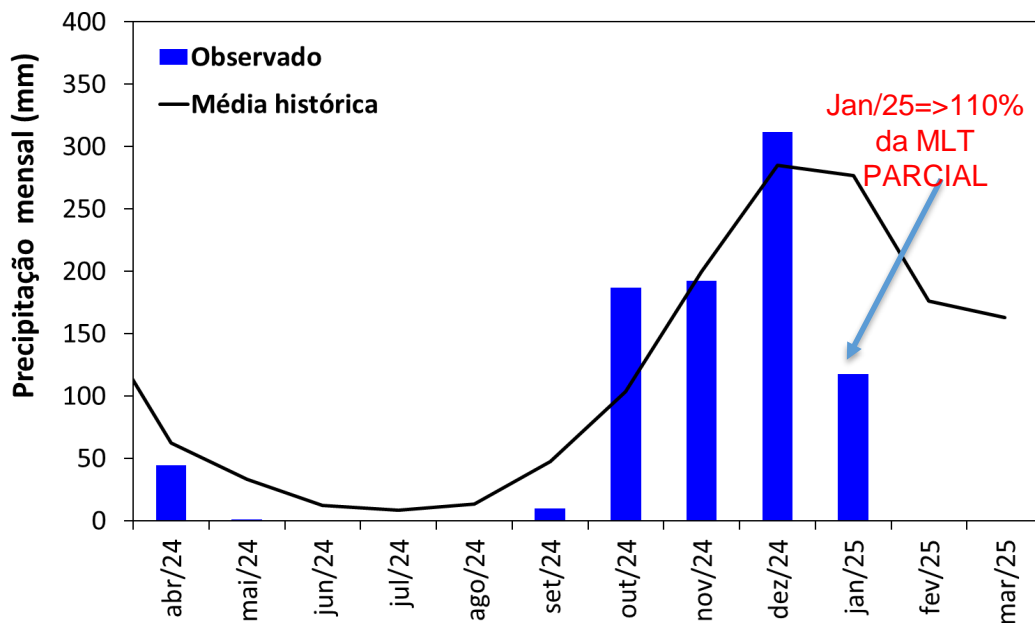
Anomalia de Precipitação (mm) A.S.  
Período: 01/10/2024 a 13/01/2025



# Precipitacao Bacia do Rio Sao\_Francisco desde JAN 2023



# Monitoramento UHE Três Marias



## 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

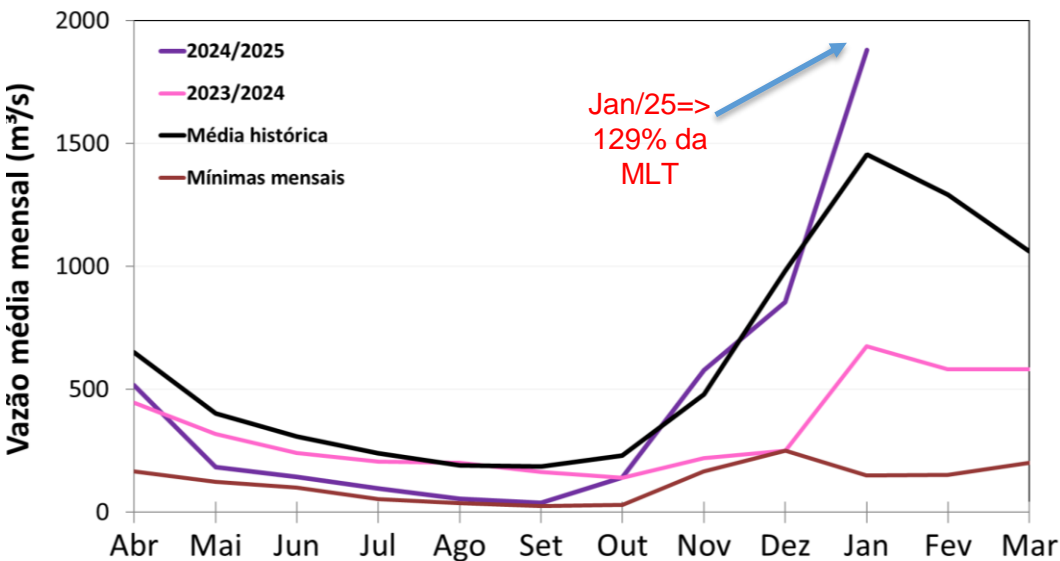
2023: 142 mm (79% da MLT)

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

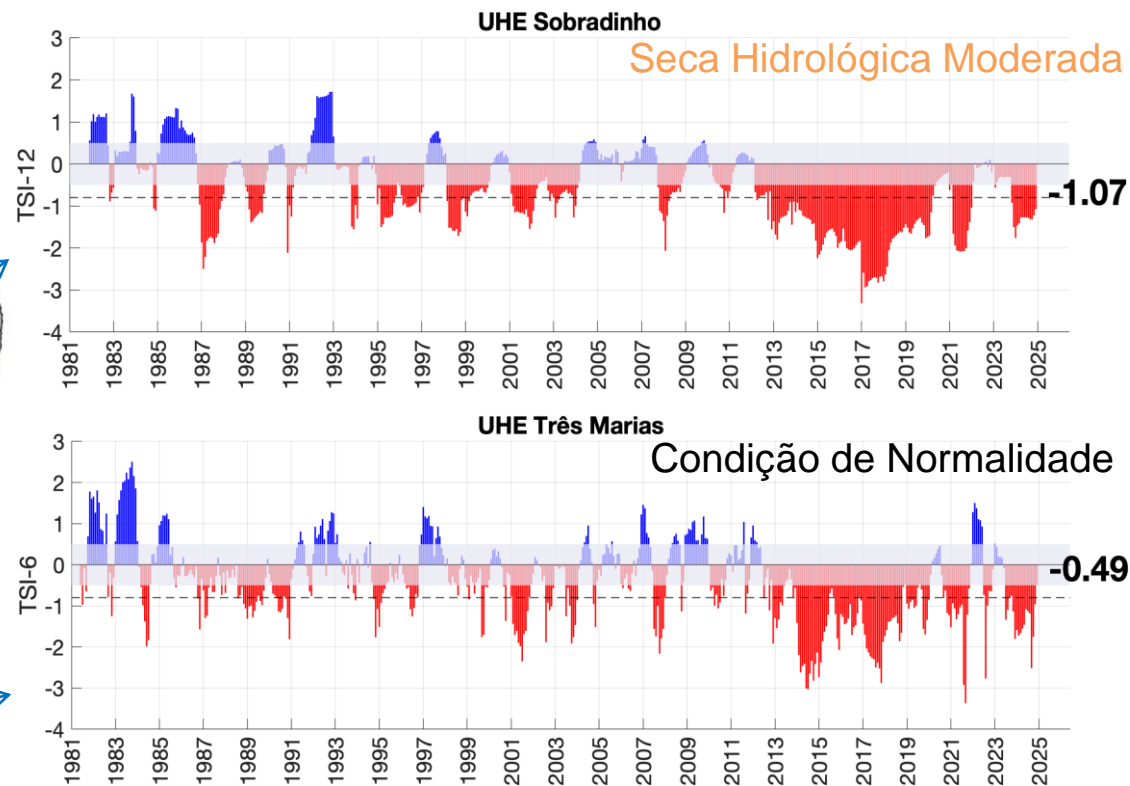
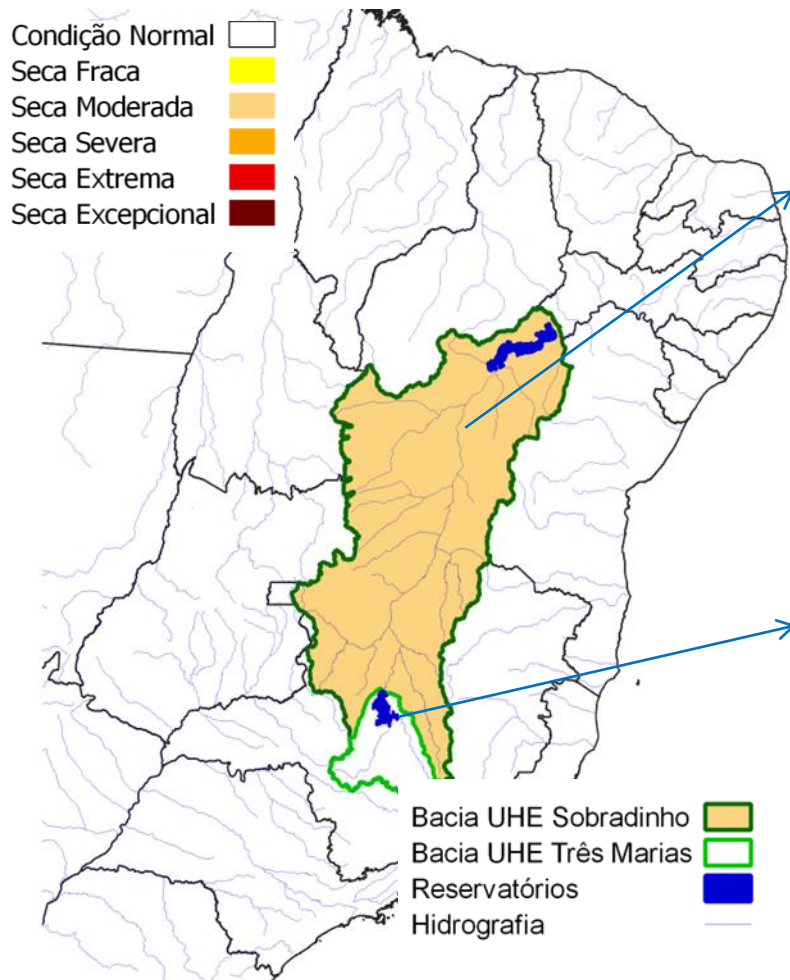
Dados de precipitação: INMET, ANA, CEMADEN.

Dados de vazão: ONS e ANA.

MLT: Média de Longo Termo (1983-2023)

# Monitoramento UHE Três Marias e Sobradinho

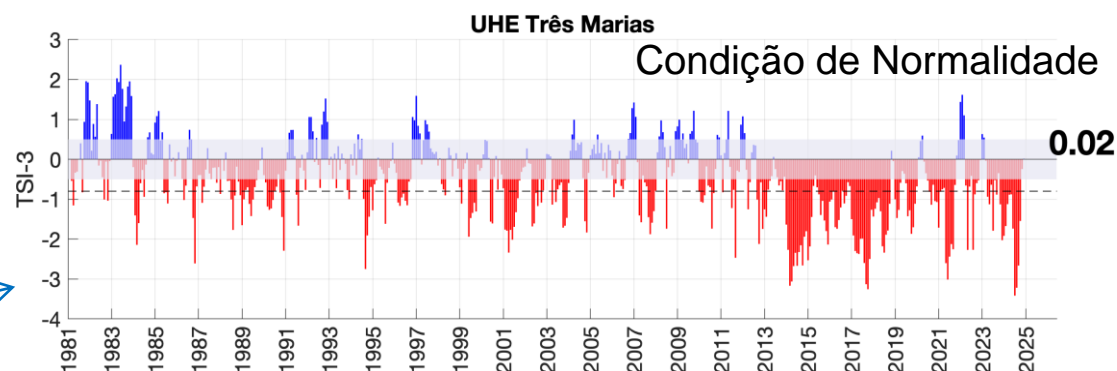
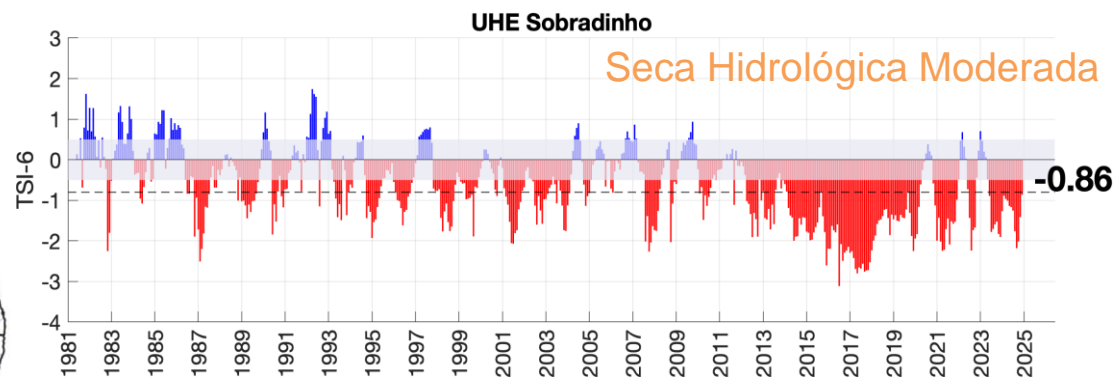
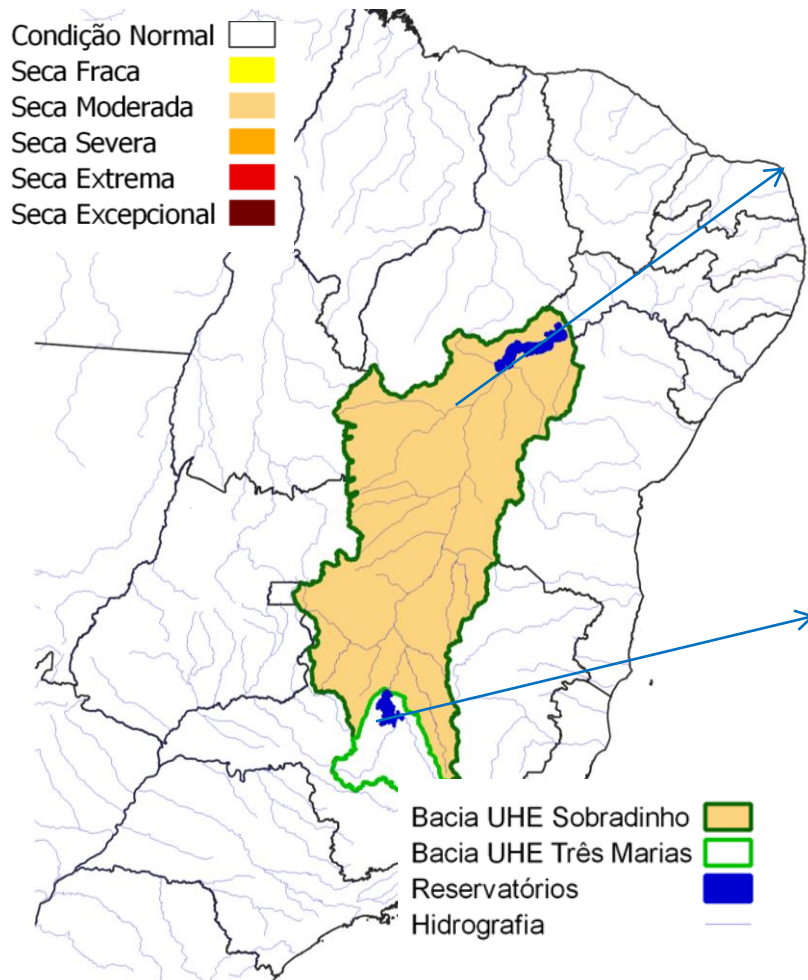
## Índice Padronizado Bivariado (Chuva-Vazão) – TSI6



Bacia afluenta à UHE:	TSI-Nov	TSI-Dez
Sobradinho	Moderada (-1.22)	Moderada (-1.07)
Três Marias	Moderada (-0.96)	Normal (-0.49)

# Monitoramento UHE Três Marias e Sobradinho

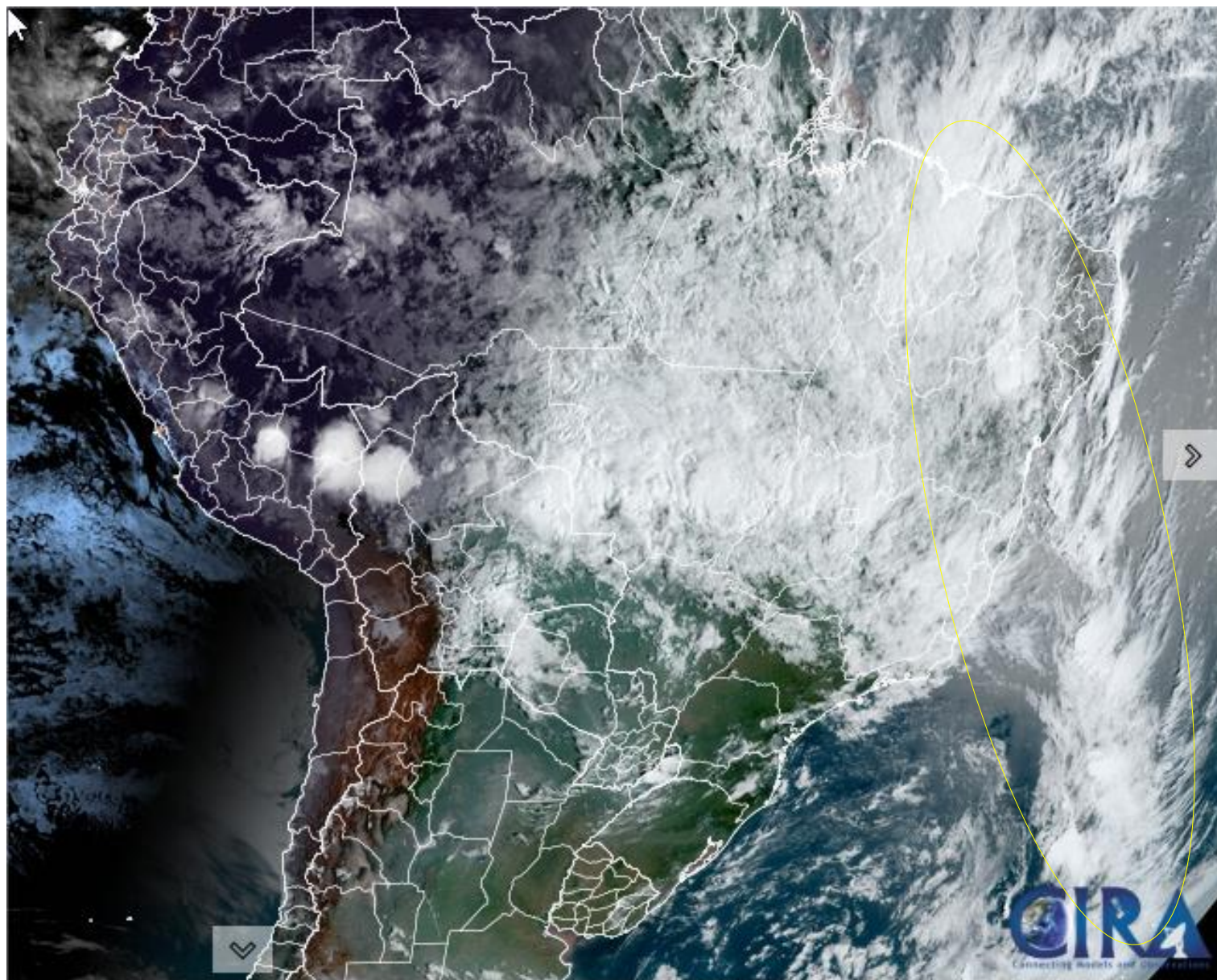
## Índice Padronizado Bivariado (Chuva-Vazão) – TSI3



Bacia afluyente à UHE:	TSI-Nov	TSI-Dez
Sobradinho	Severa (-1.41)	Moderada (-0.86)
Três Marias	Normal (-0.24)	Normal (0.02)



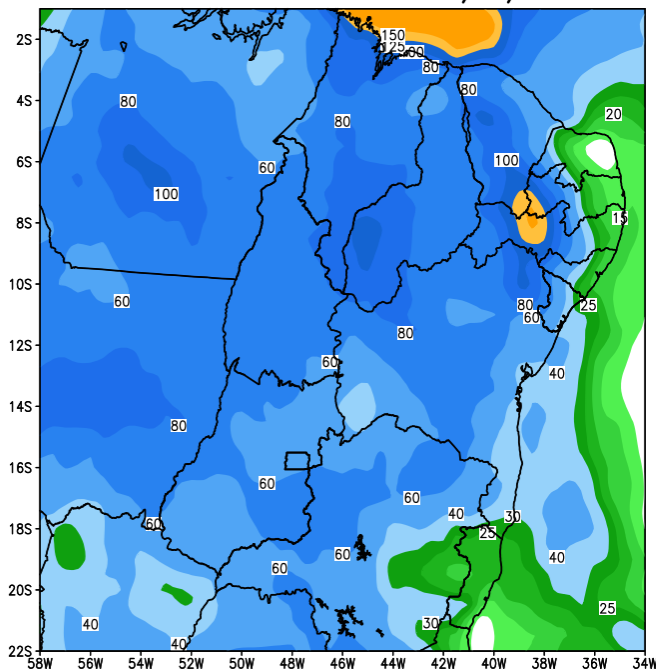
# Situação meteorológica atual



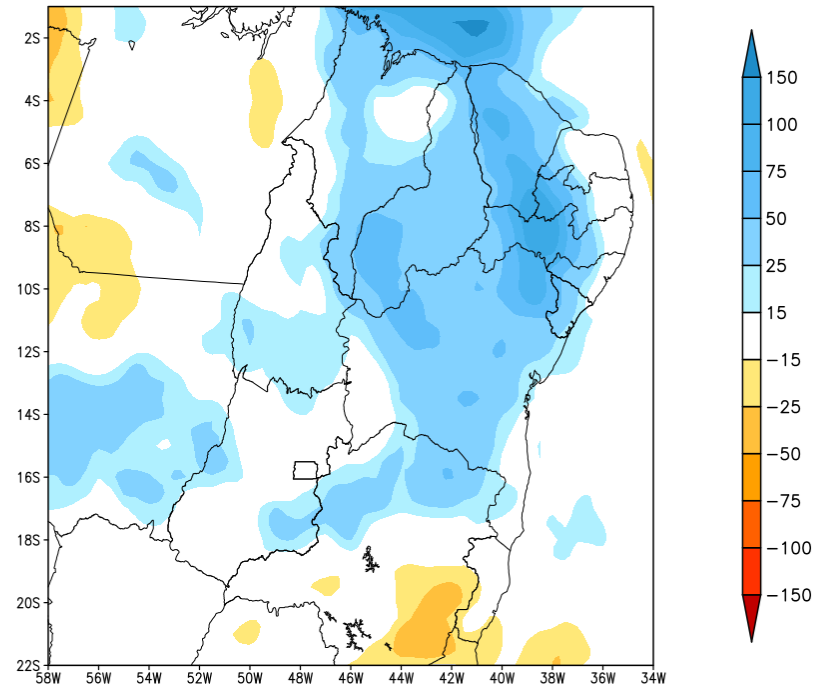


# Previsão de chuva próximos 7 dias

GEFS / BRASIL\_NE  
Precipitação acumulada 1aSem (mm)  
Previsão das 00Z dia 14/01/2025



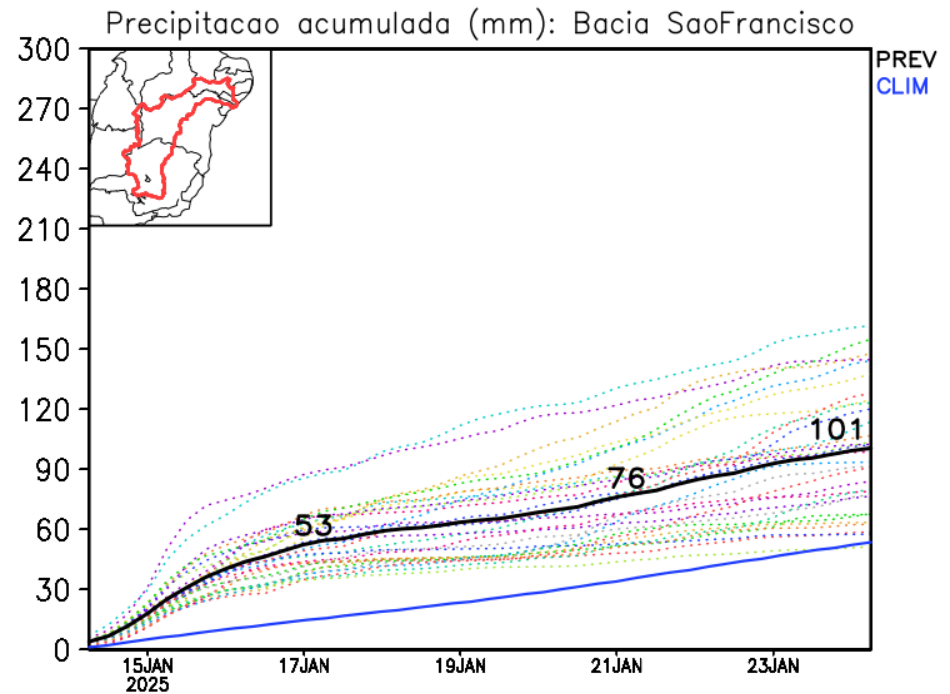
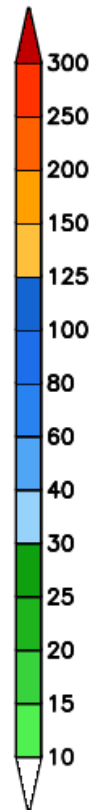
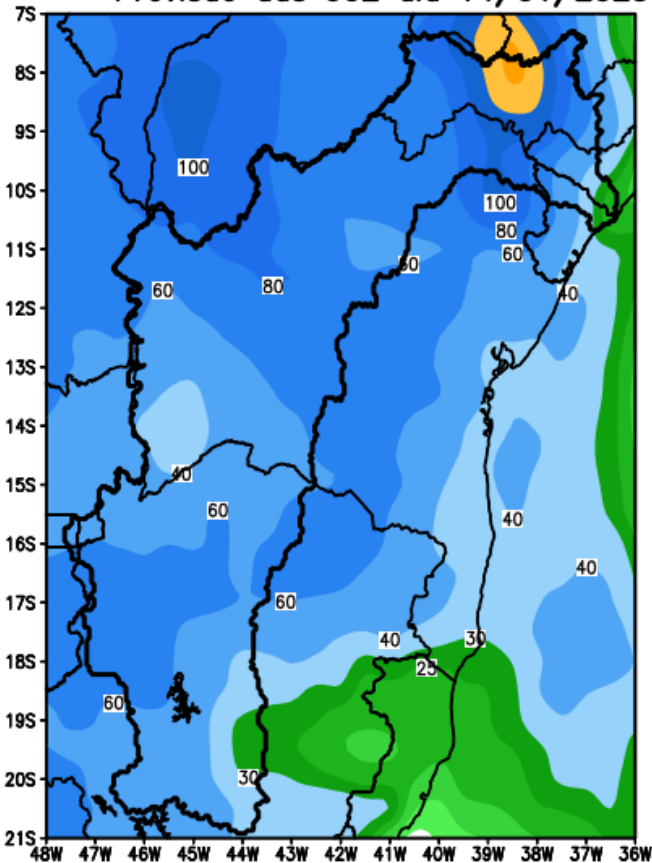
Anomalia de Precipitação BR\_NE (mm)  
Período: 2025011400 a 2025012100



Fonte: GEFS/NOAA

# Bacia do rio São Francisco

GEFS / Bacia do Rio Sao Francisco  
Precipitacao acumulada em 7 dias (mm)  
Previsao das 00Z dia 14/01/2025

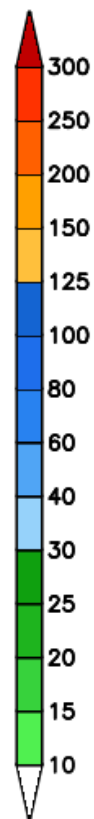
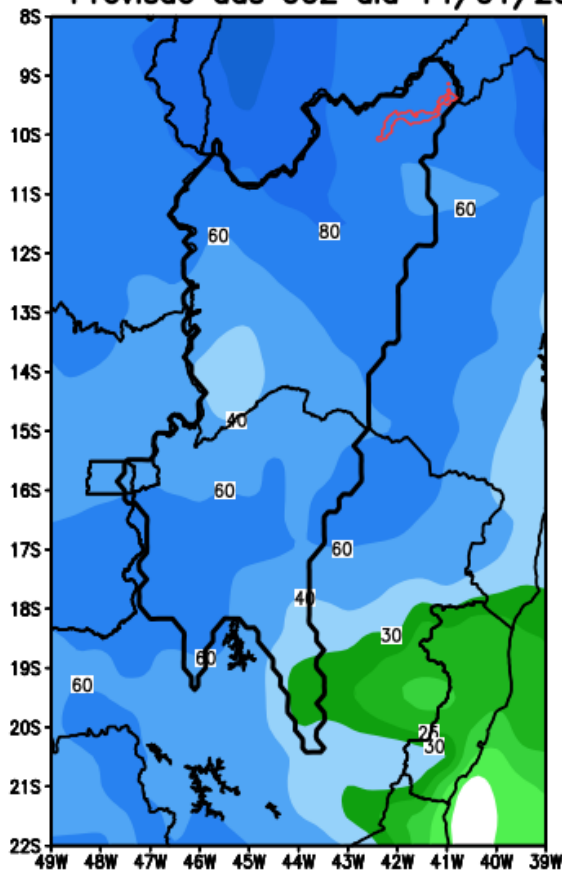


# Bacia de Sobradinho

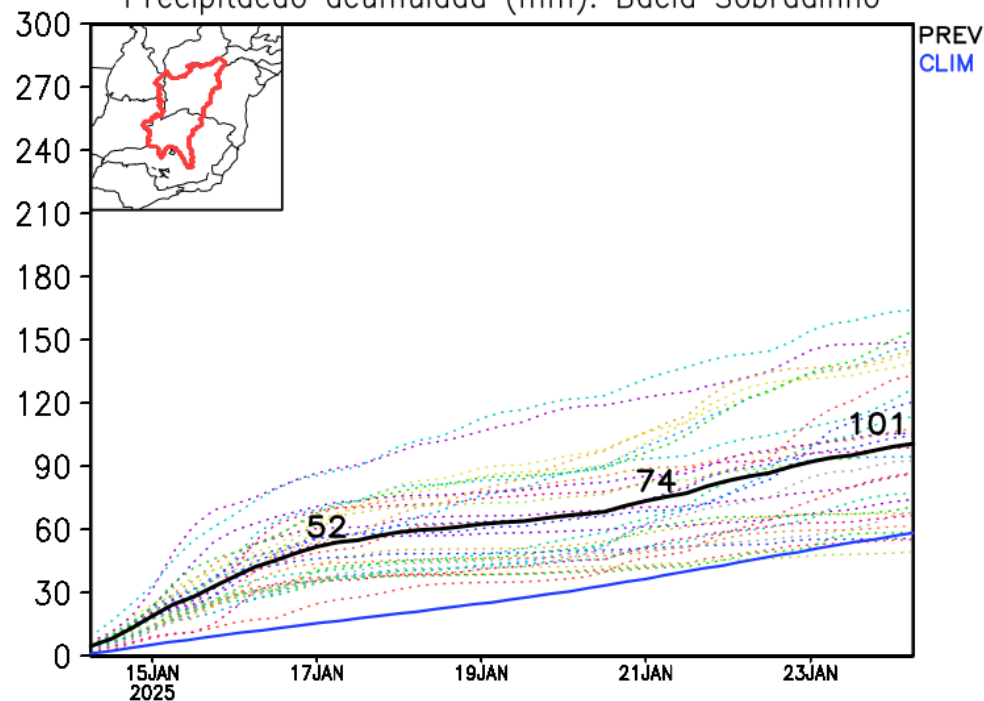
GEFS / Sobradinho

Precipitacao acumulada em 7 dias (mm)

Previsao das 00Z dia 14/01/2025



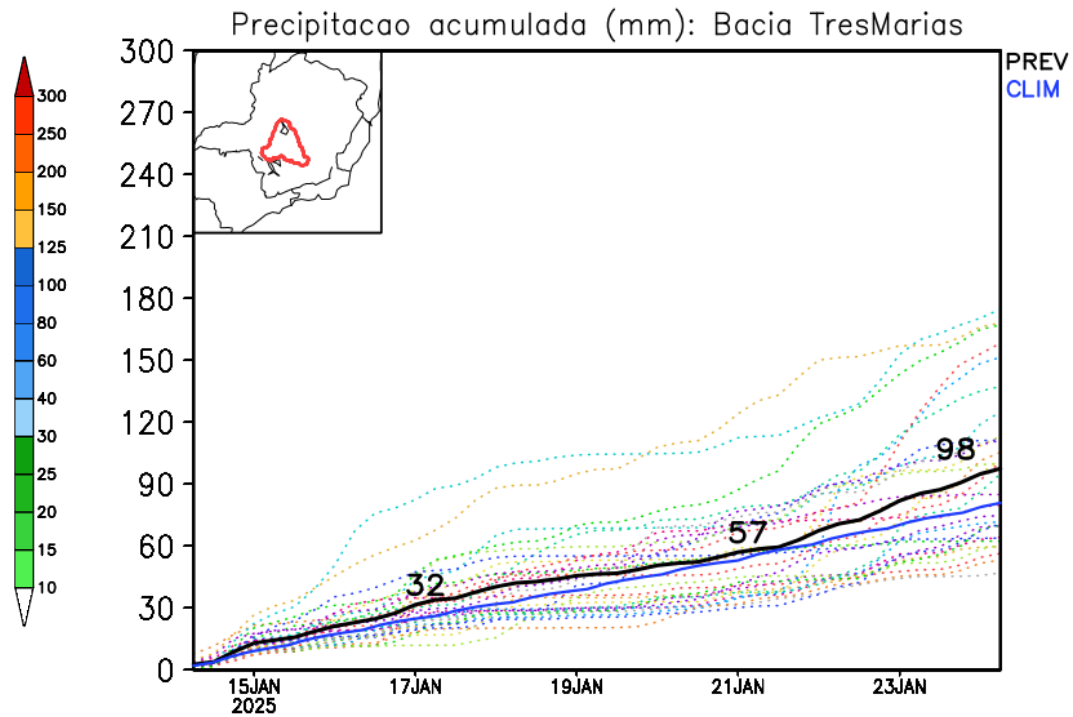
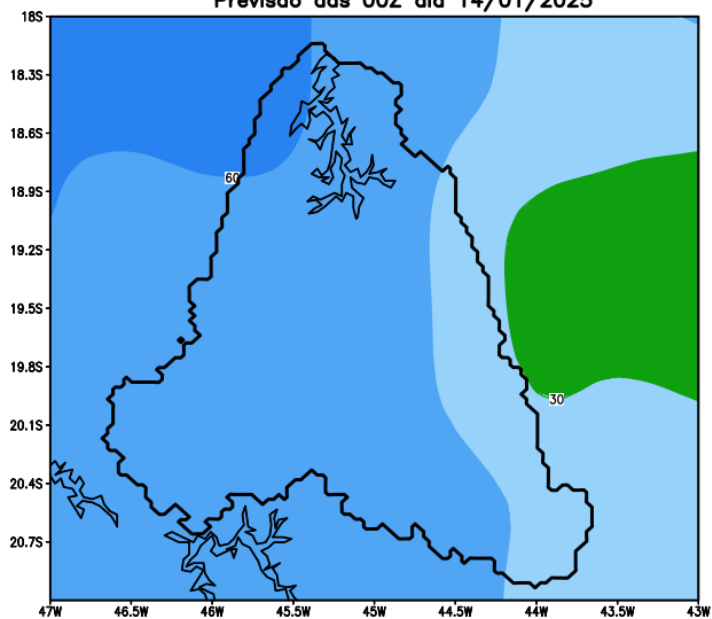
Precipitacao acumulada (mm): Bacia Sobradinho





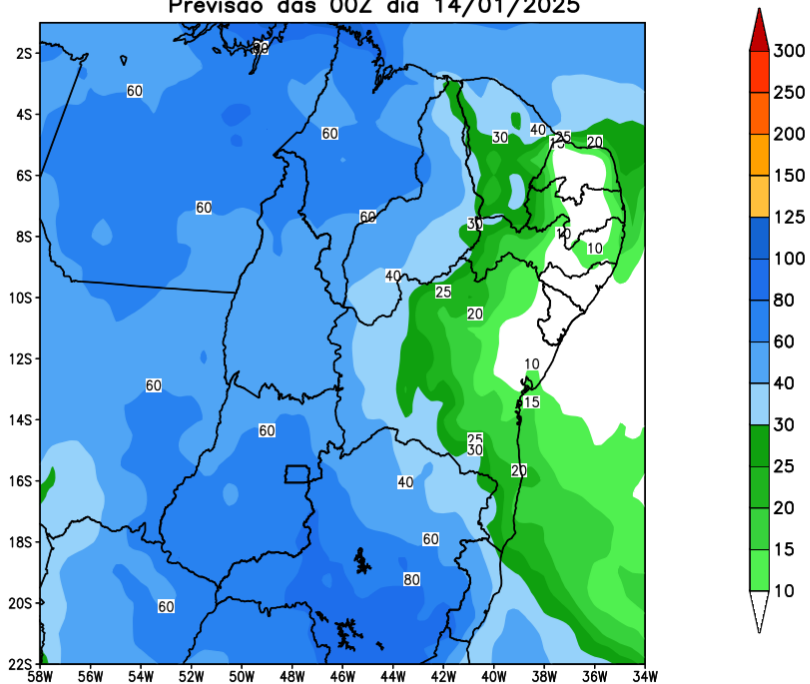
## Bacia de Três Marias

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

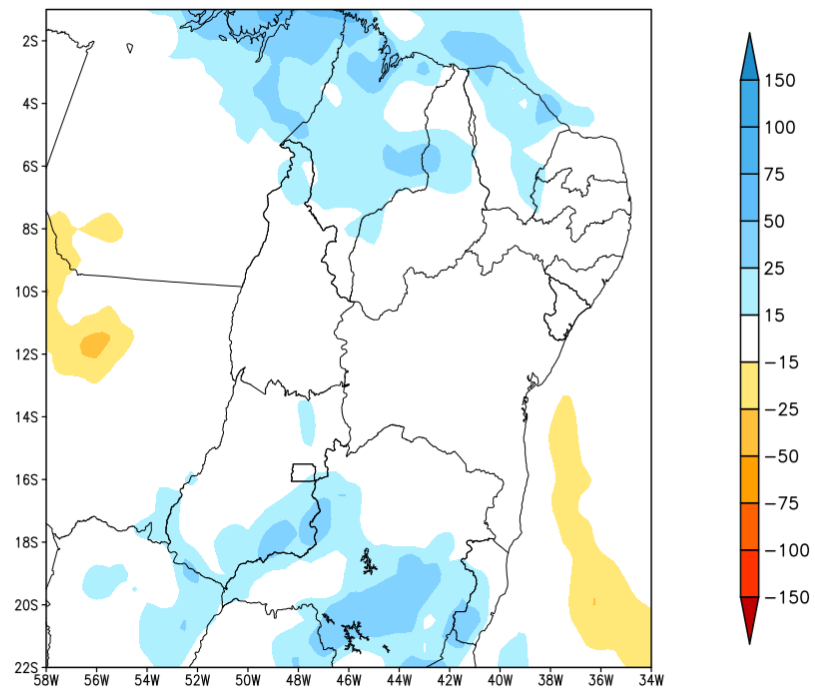


# Tendência para a 2a semana

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



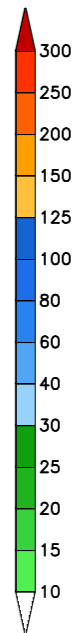
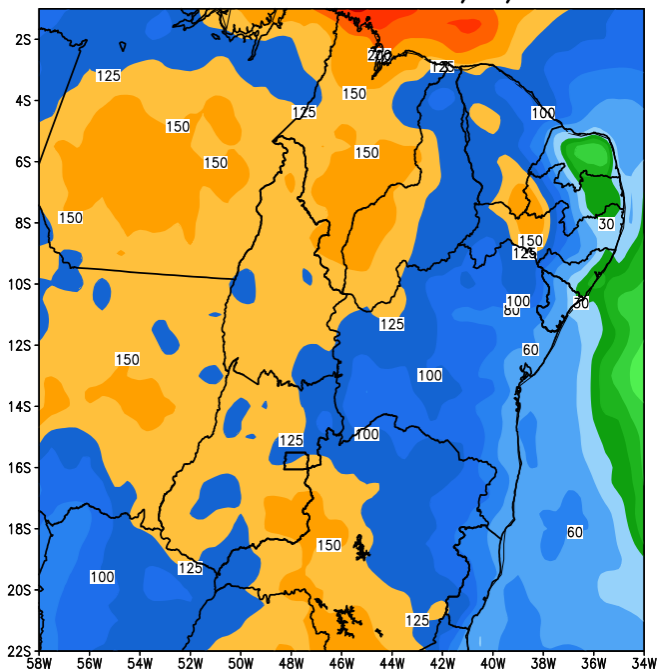
Anomalia de Precipitacao BR NE (mm)  
Periodo: 2025012200 a 2025012800



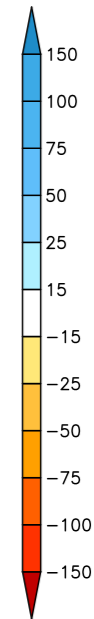
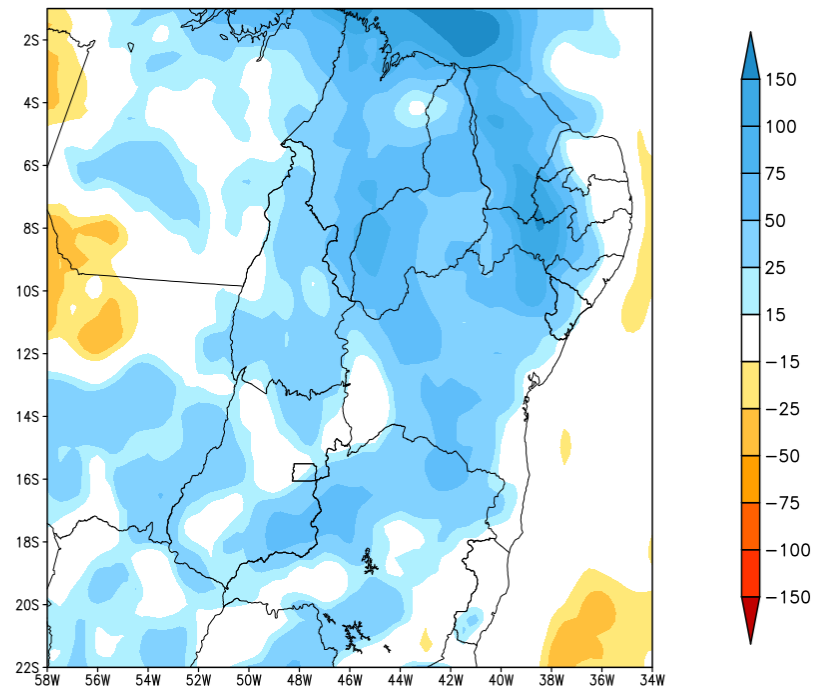
Modelo GFS/NOAA

# 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



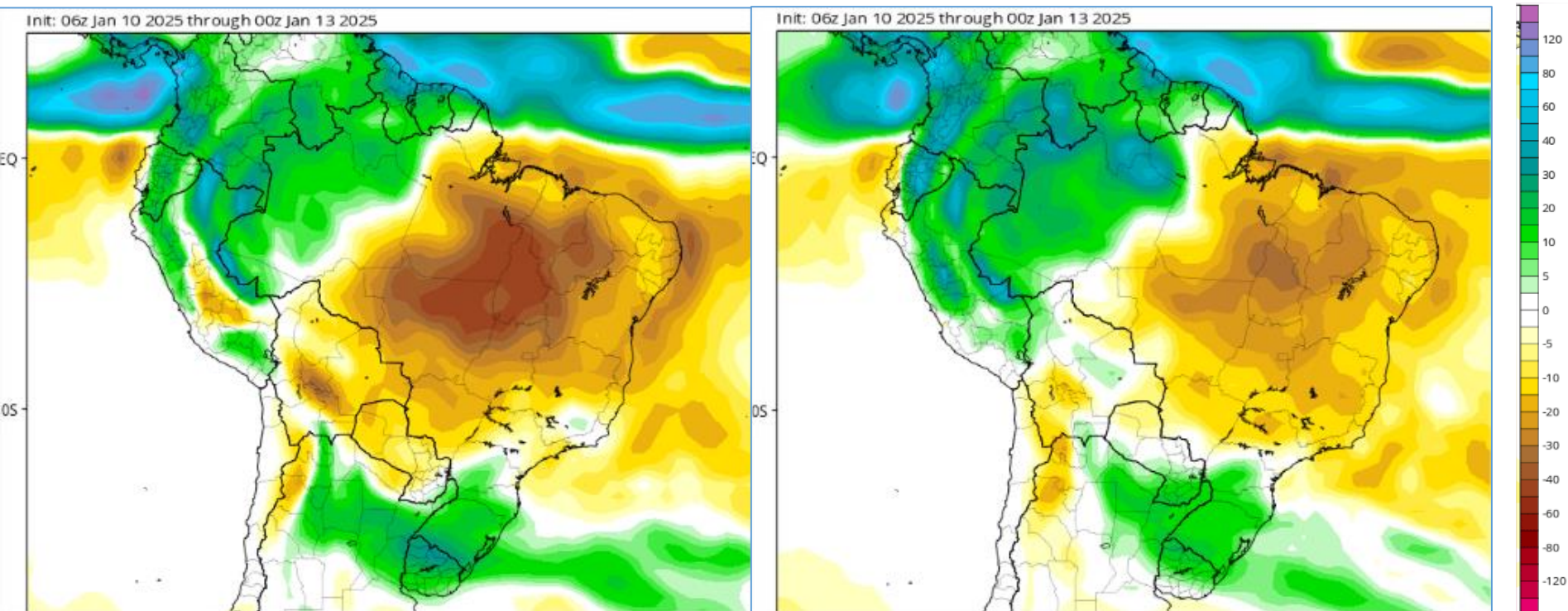
Modelo GFS/NOAA



## Tendência 3a e 4a semanas

27 Jan -03 Fev

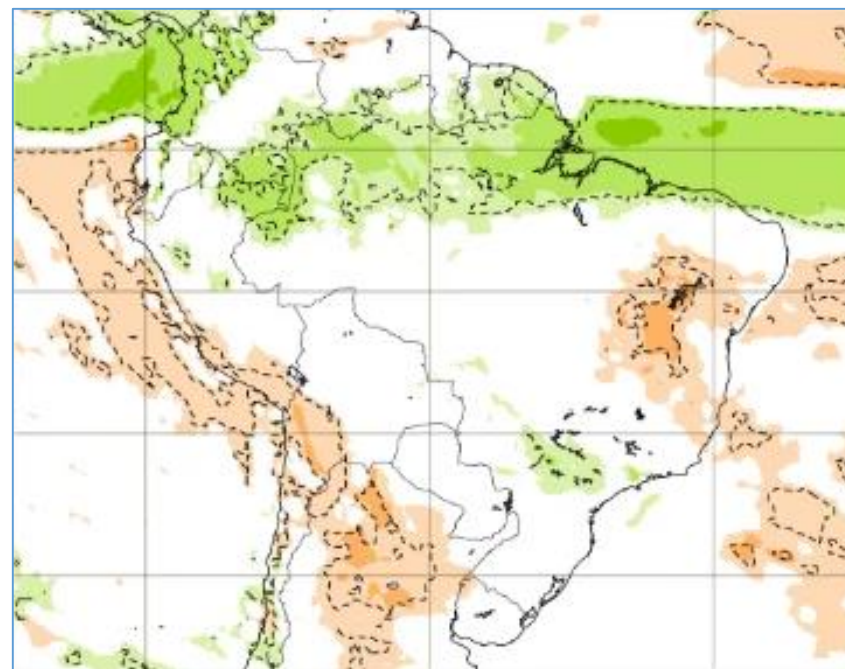
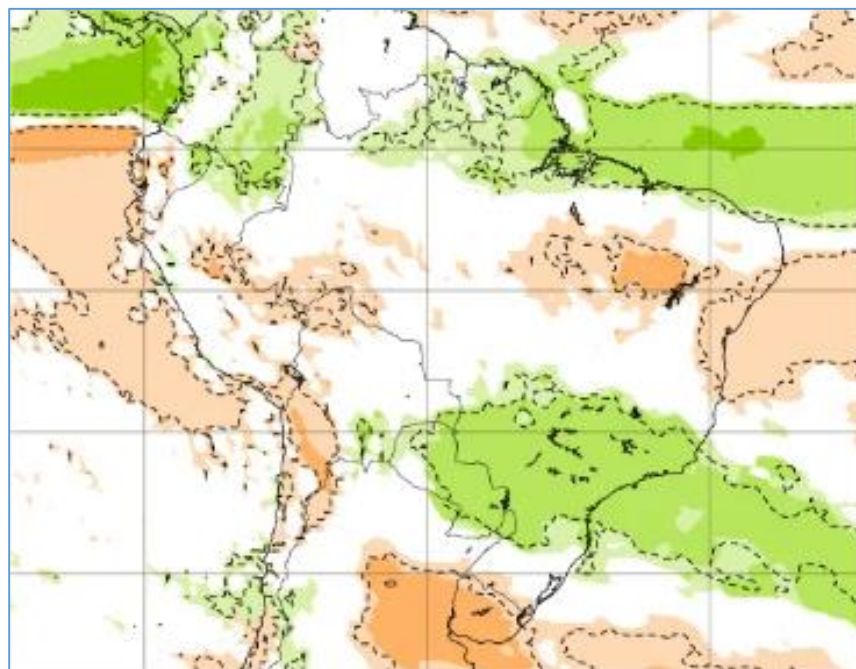
03-10 Fev



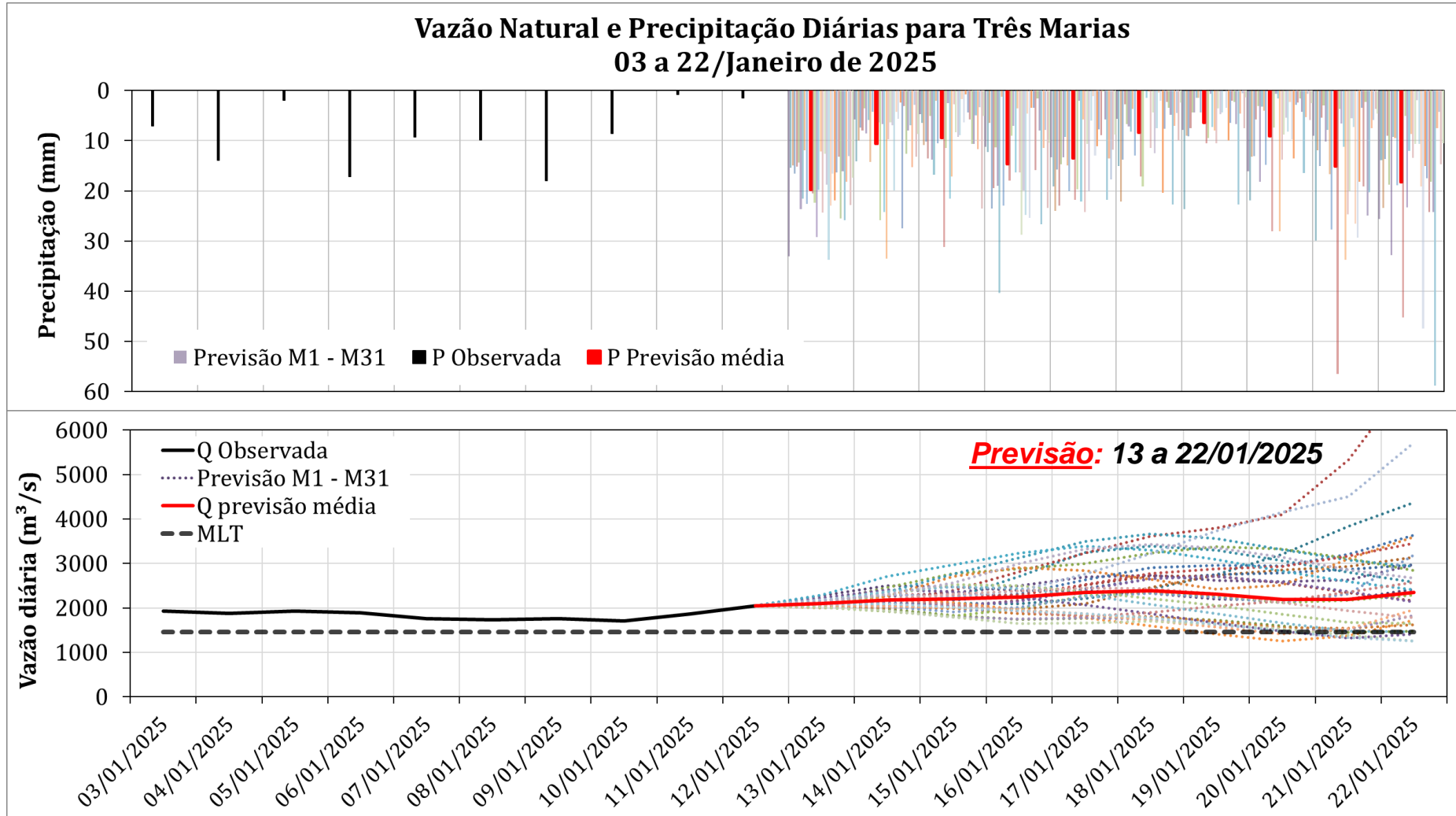
## Tendência para 3ª e 4ª semanas

27 Jan -03 Fev

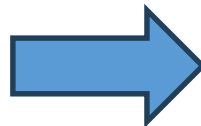
03-10 Fev



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



**Previsão média para  
os próximos 10 dias: 2252 m<sup>3</sup>/s**

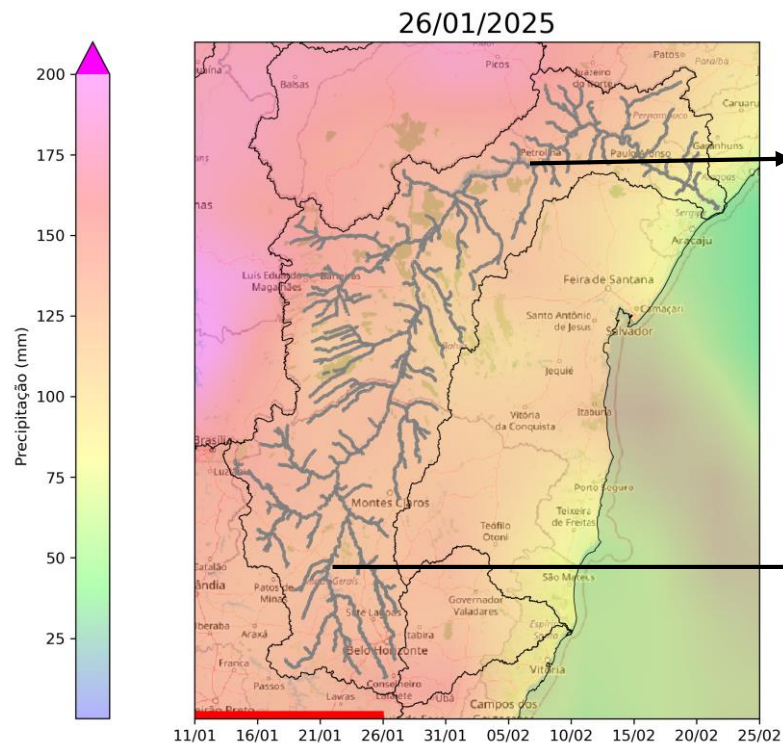


**155% da MLT de Janeiro**

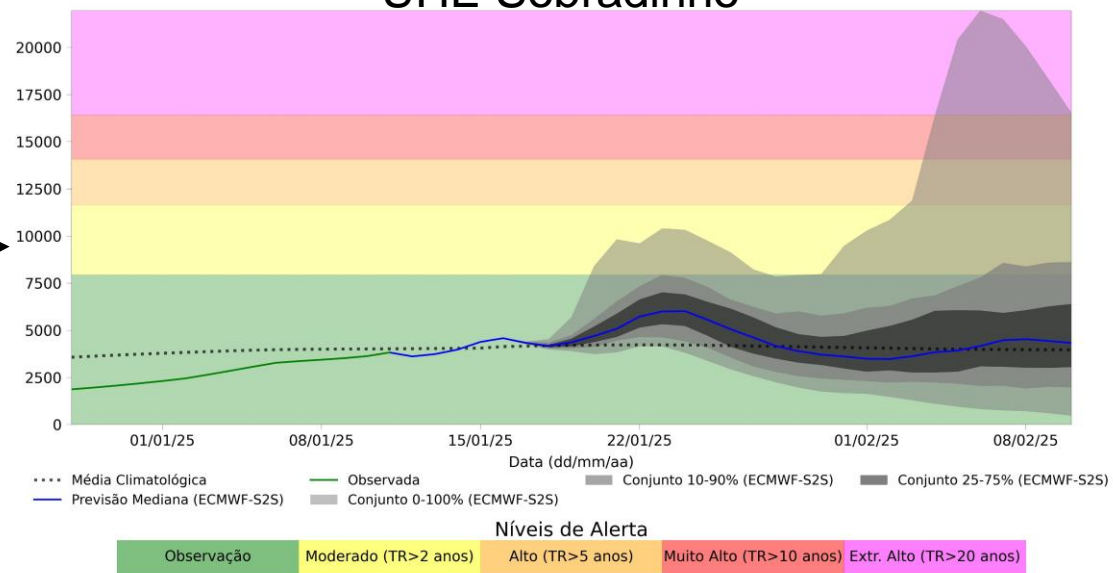


# Previsão de vazão natural na Bacia Rio São Francisco (Modelo hidrológico MHD)

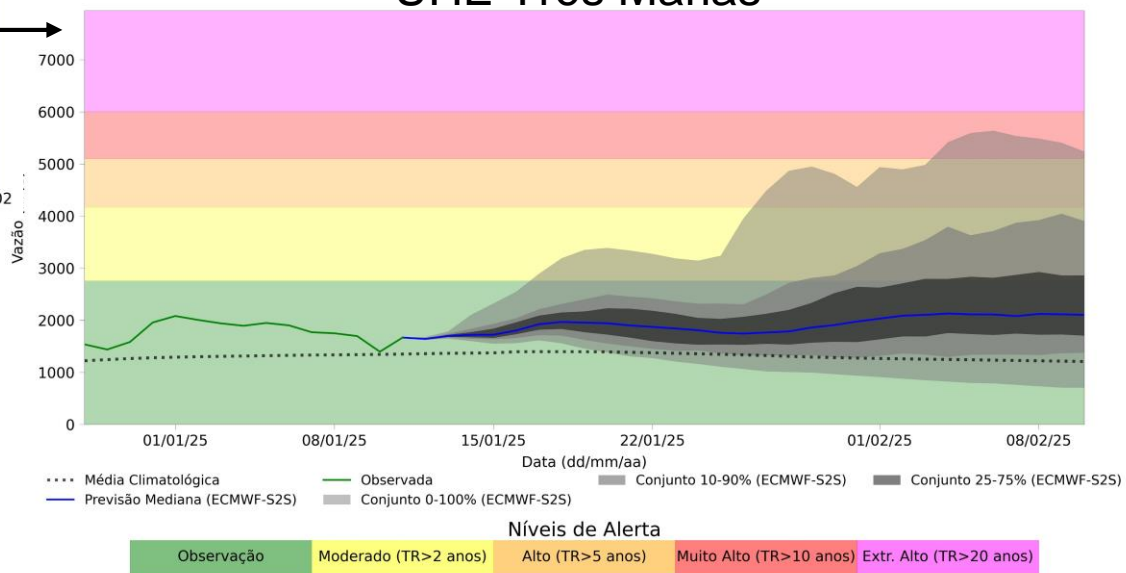
**Previsão: 11/01/2025 a 10/02/2025**



## UHE Sobradinho



## UHE Três Marias

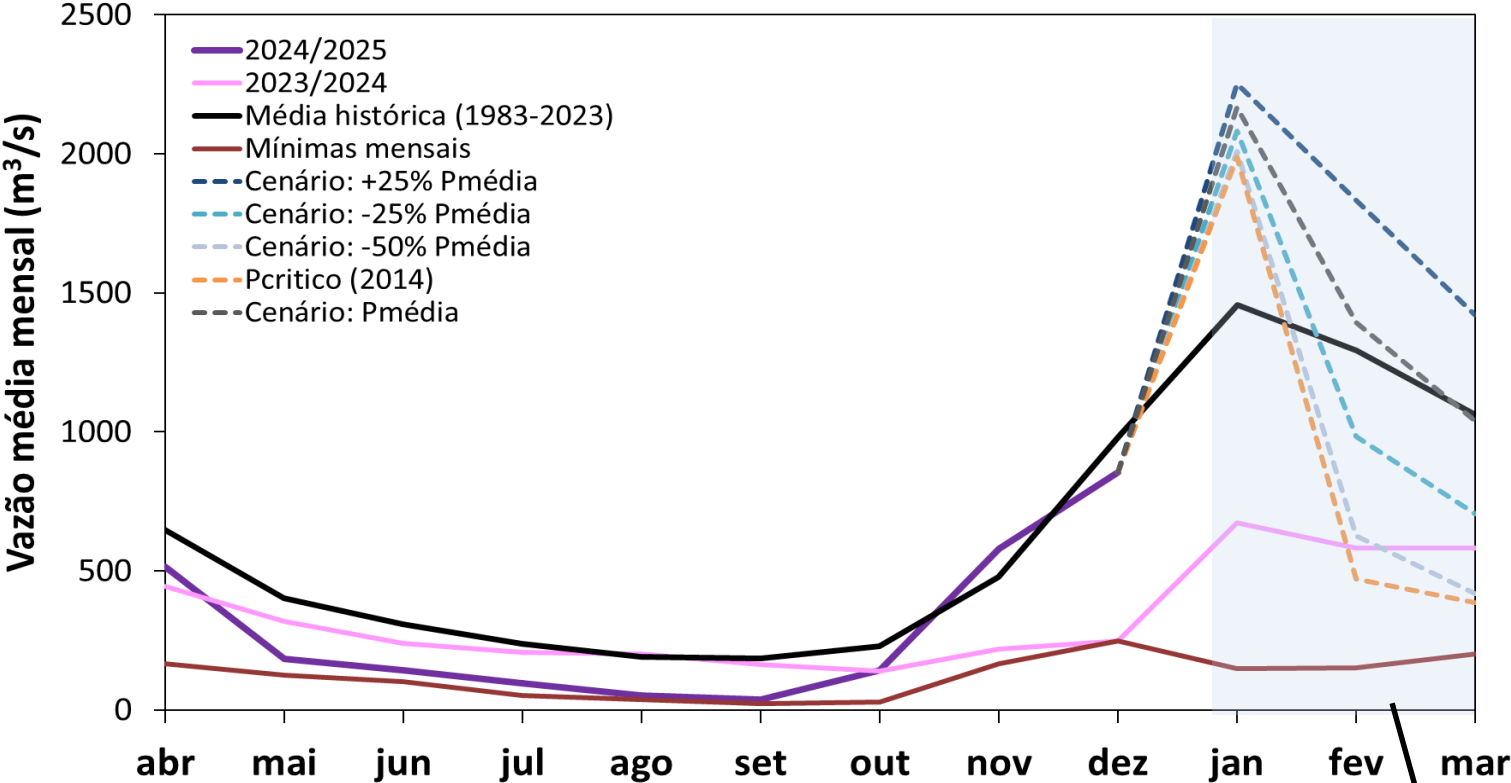


Fonte: Meteorologia (INMET/MERGE); Vazão (ANA/ONS)

MLT: 2003-2023

Previsão Meteorológica: ECMWF

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



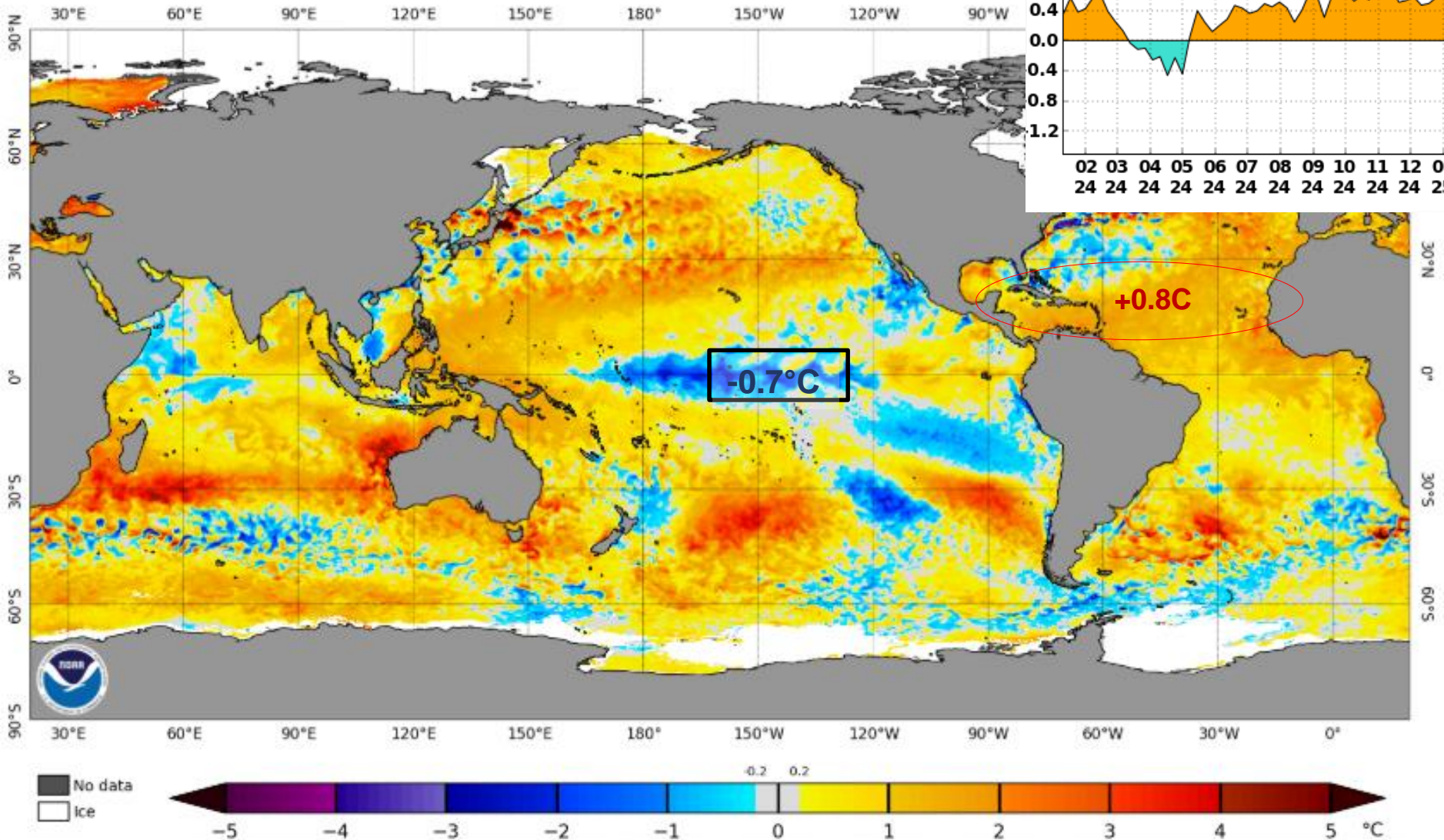
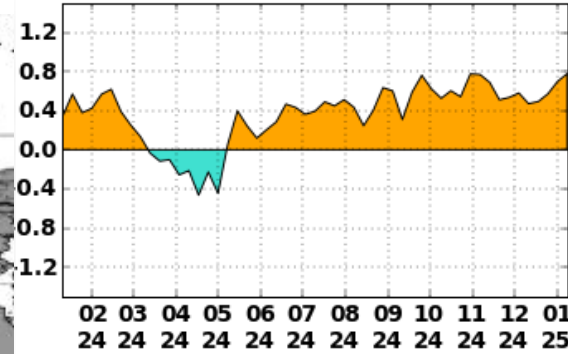
Jan-Mar (Meses Chuvosos)  
MLT: 1270 m³/s

Vazão	% MLT
1835 m³/s	145%
1532 m³/s	121%
1257 m³/s	99%
949 m³/s	75%

Status Atual: **La Niña** <=

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

Grad. Interhemisférico





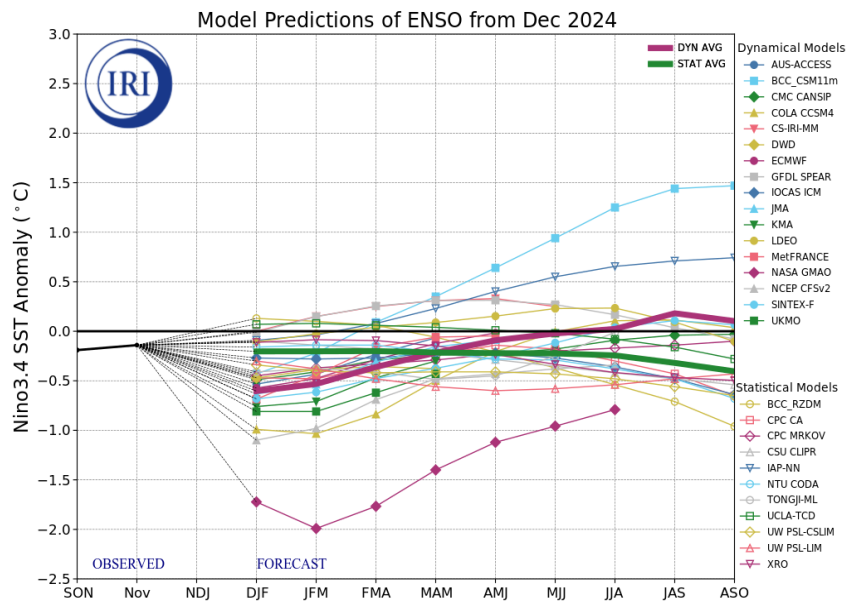
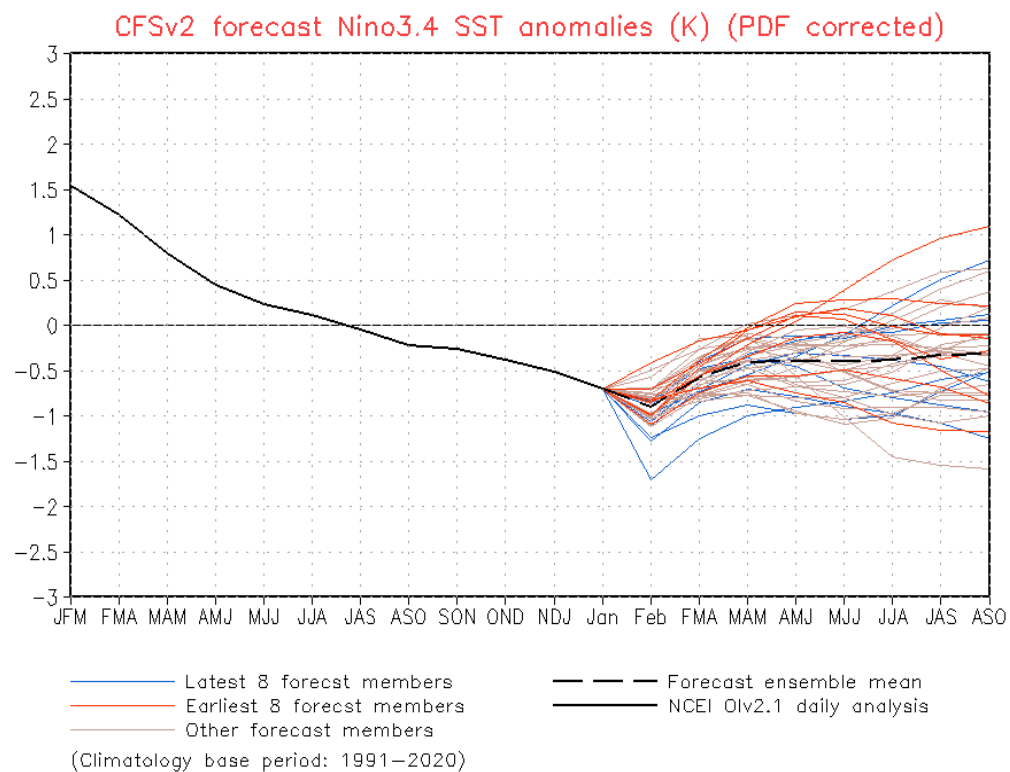


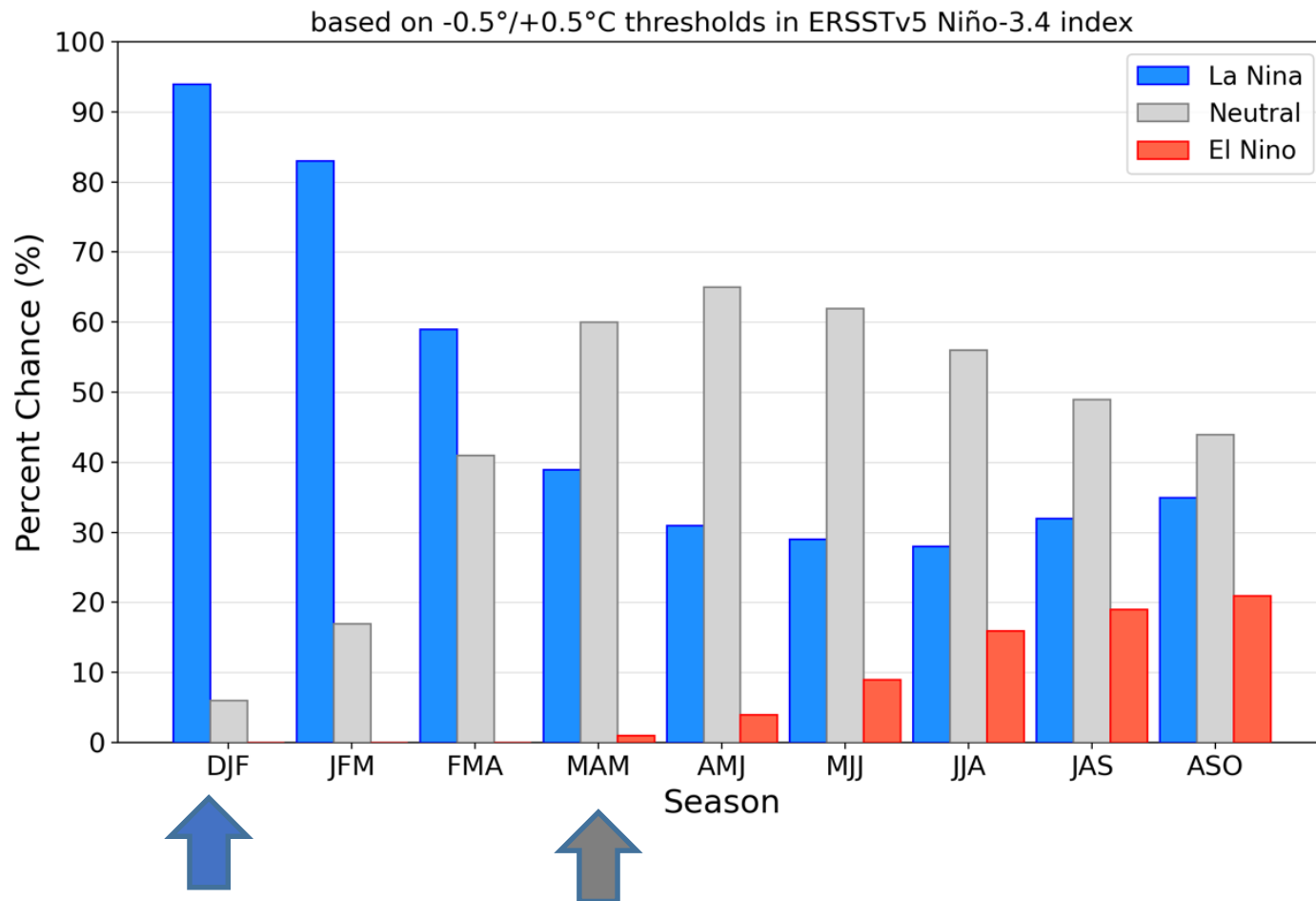
Figure provided by the International Research Institute (IRI) for Climate and Society (updated 19 December 2024).



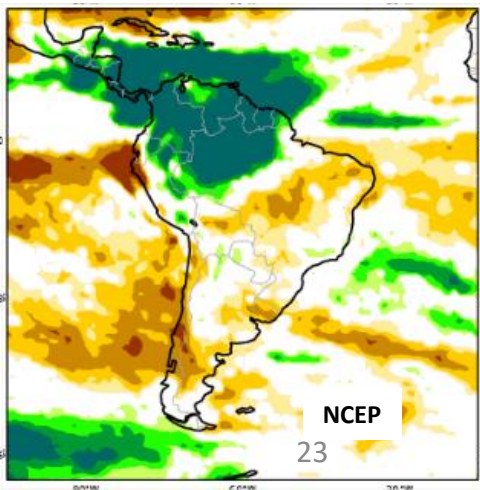
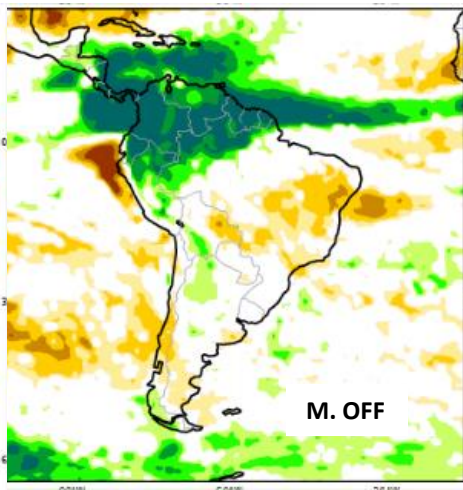
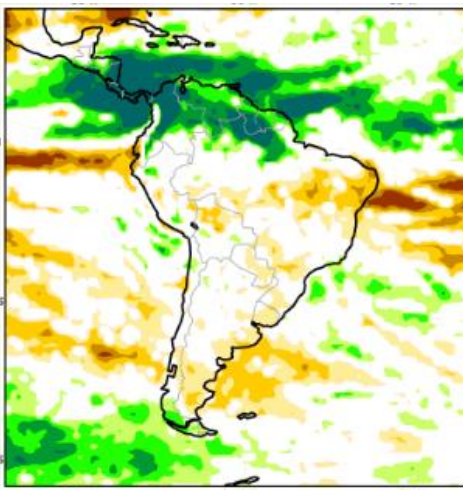
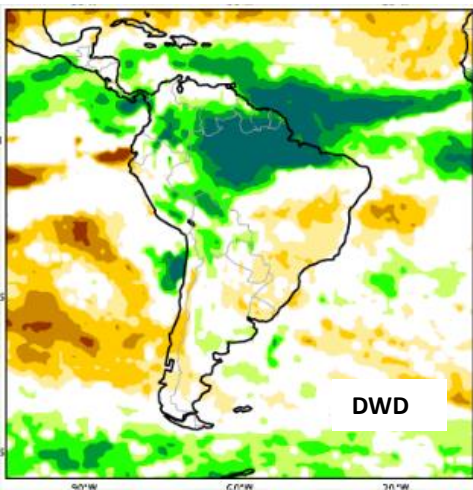
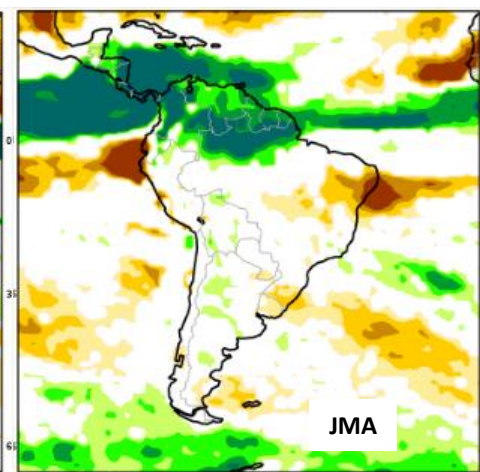
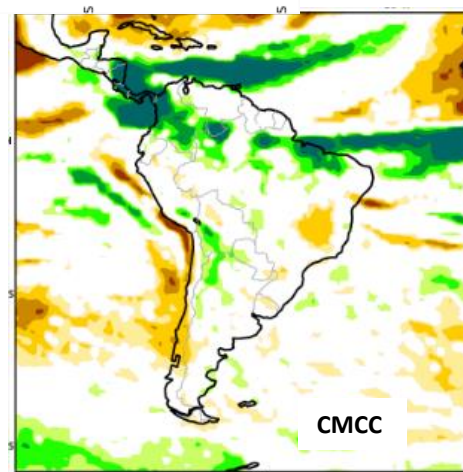
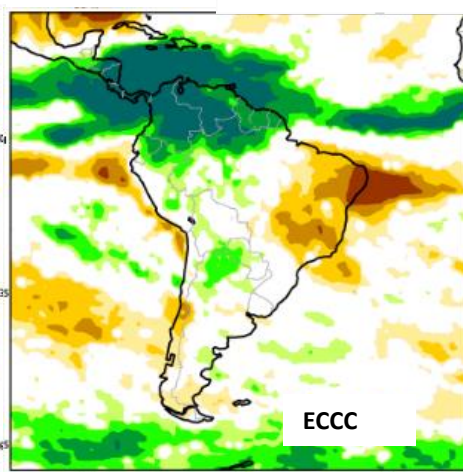
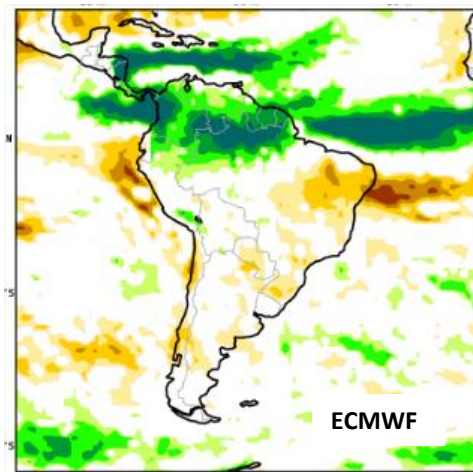
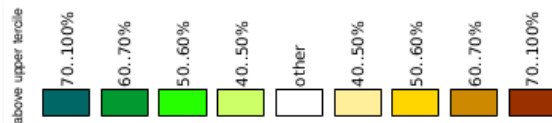
Atualizado 13 de janeiro de 2025

# Previsão do “ENSO”

## Official NOAA CPC ENSO Probabilities (issued January 2025)

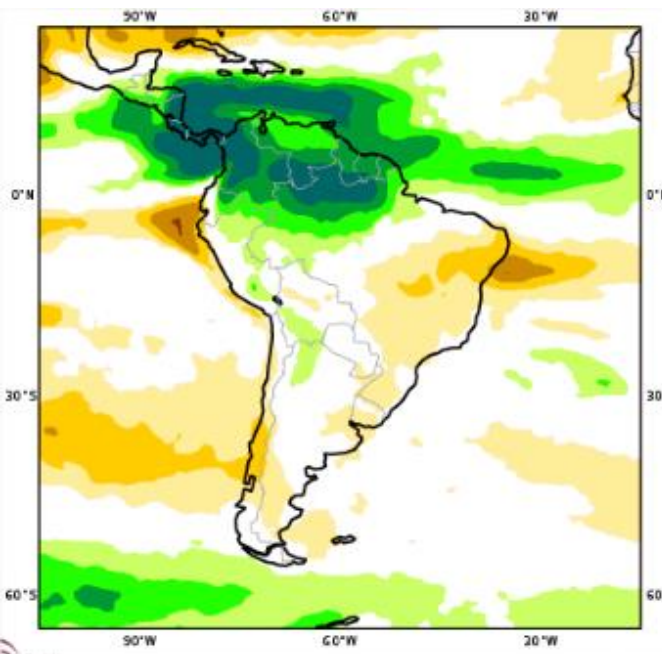


# Previsão Sazonal de Chuva FMA

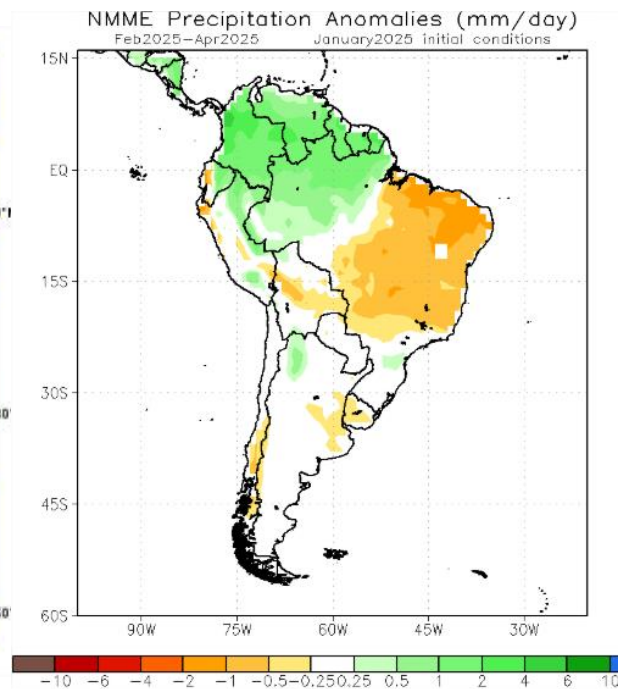


# Previsão Sazonal de Chuva Multi-Modelo

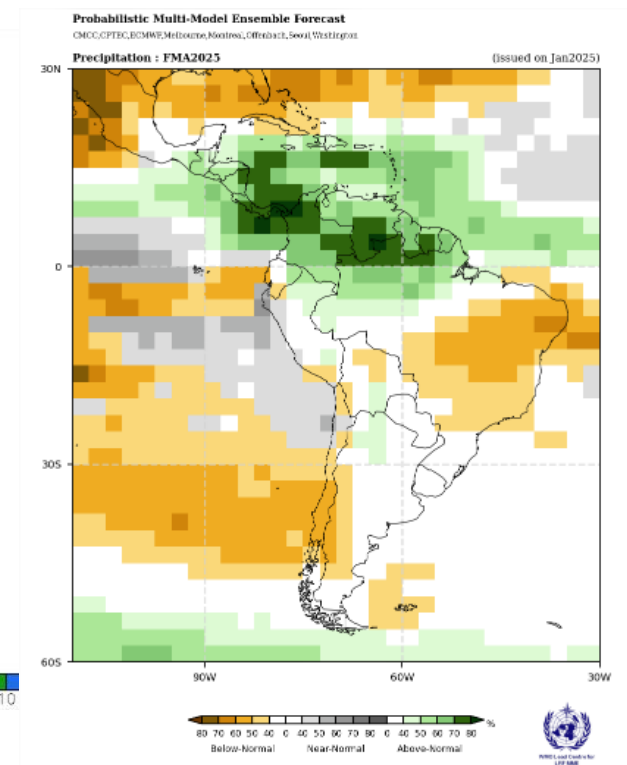
Fevereiro-Março Abril



Modelos Europeus



Modelos Norte Americanos



Modelos da WMO