CEMADEN

Centro Nacional de Monitoramento e Alertas de Desastres Naturais

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

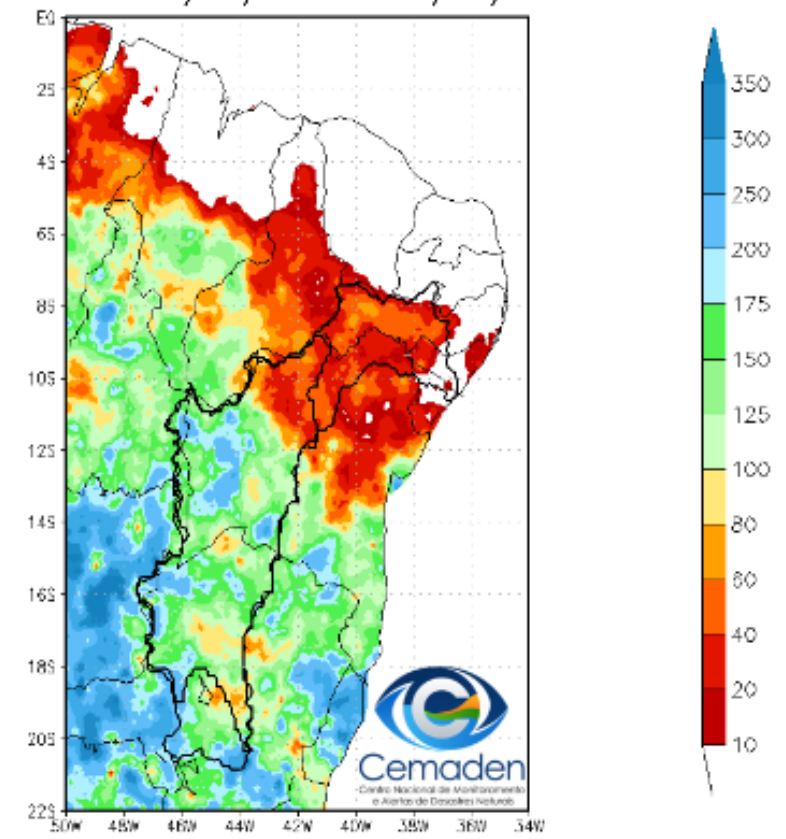
03 de Dezembro de 2024

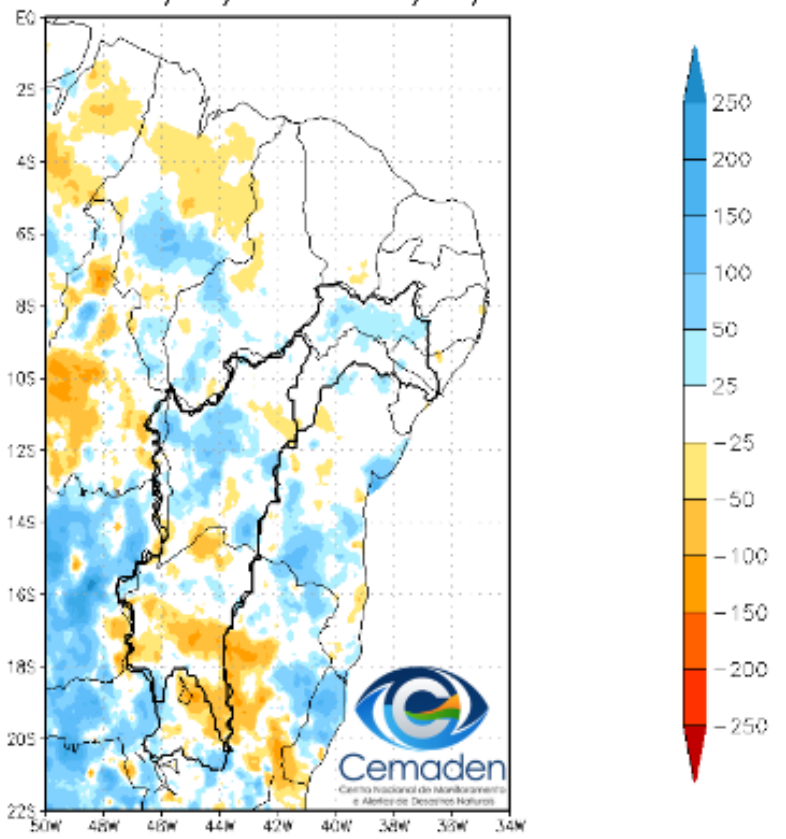
Cemaden

MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E INOVAÇÃO

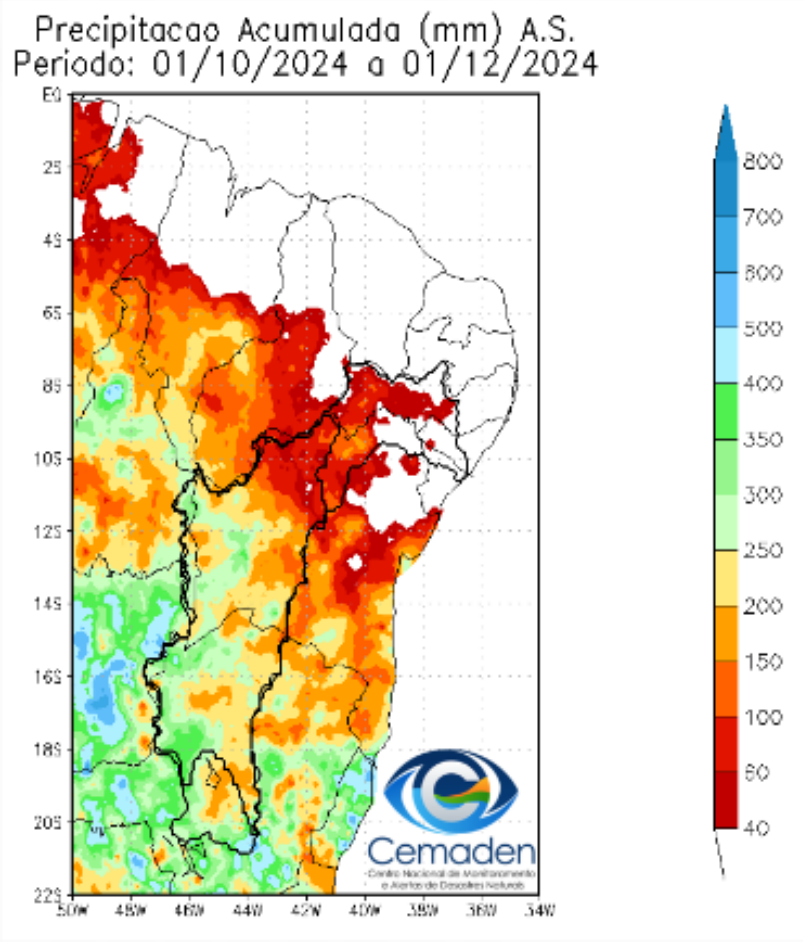
GOVERNO FEDERAL BRASIL UNIÃO E RECONSTRUÇÃO

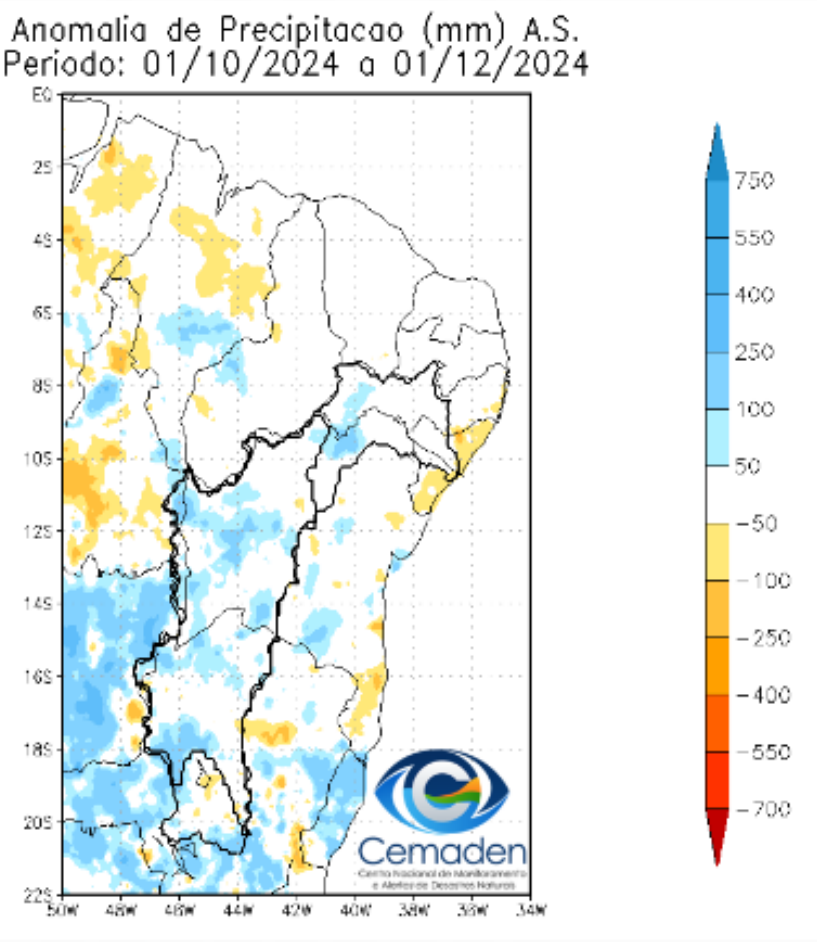
Chuva dos últimos 30 dias



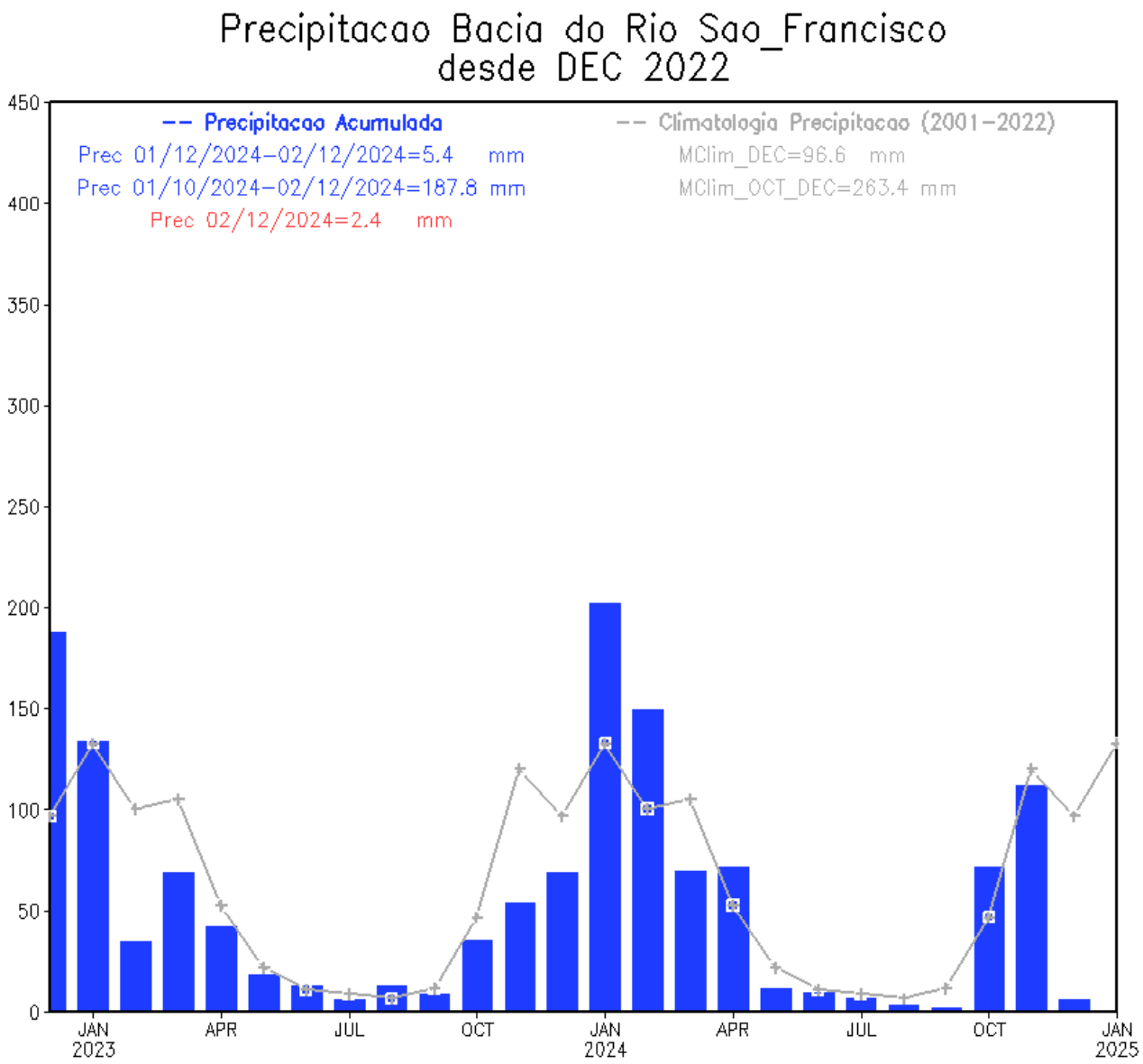


Chuva no Ano Hidrológico - desde 01/10/2023



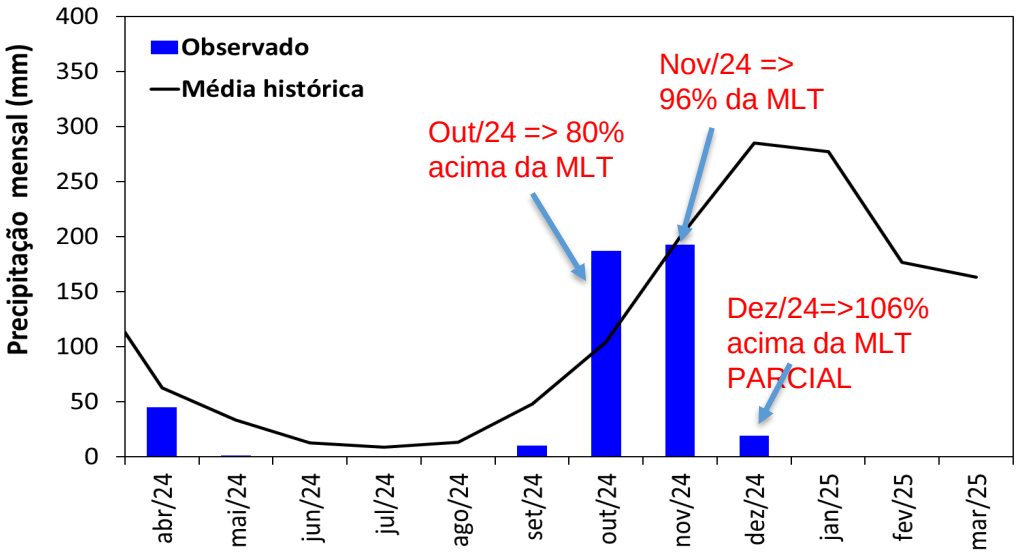


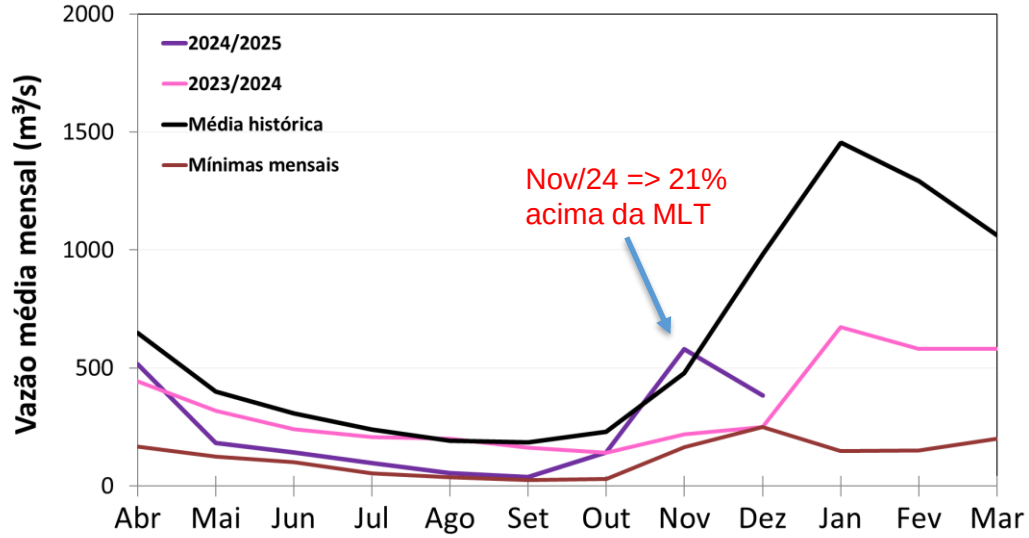
Chuva dos últimos dois anos



Fonte dos dados: INPE

Monitoramento UHE Três Marias





MLT: Média de Longo Termo (1983-2023)

Precipitação

Estação Chuvosa - Out a Mar - 1205 mm
2023/2024: 1057 mm **(88% da MLT)**
2024/2025*: 398 mm **(97% da MLT PARCIAL)**

Estação Seca - Abr a Set – 178 mm
2023: 142 mm **(79% da MLT)**
2024: 57 mm **(32% da MLT)**

Nov/24: 193 mm **(96% da MLT)**
Dez/24*: 19 mm **(206% da MLT PARCIAL)**

**Até 01/12/2024*

Vazão

Estação Chuvosa - Out a Mar - 917 m³/s
2023/2024: 408 m³/s **(44% da MLT)**
2024/2025**: 369 m³/s **(40% da MLT)**

Estação Seca - Abr a Set - 329 m³/s
2023: 262 m³/s **(80% da MLT)**
2024: 172 m³/s **(52% da MLT)**

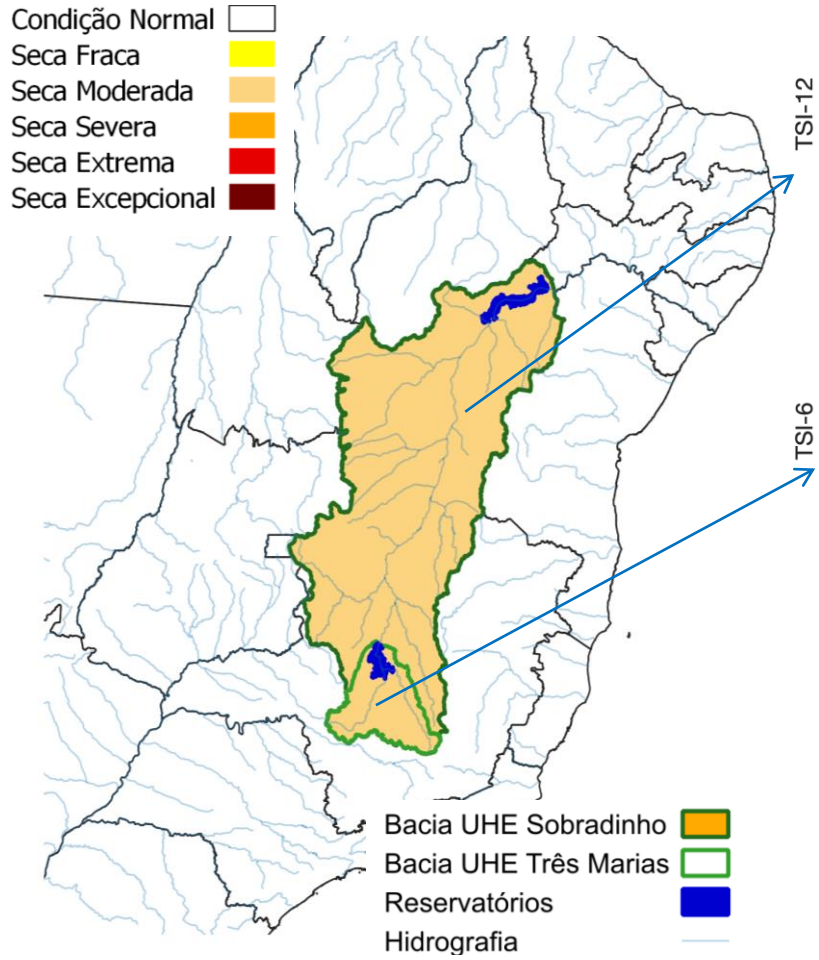
Nov/24: 580 m³/s **(121% da MLT)**
01/Dez/24: 384 m³/s **(39% da MLT)**

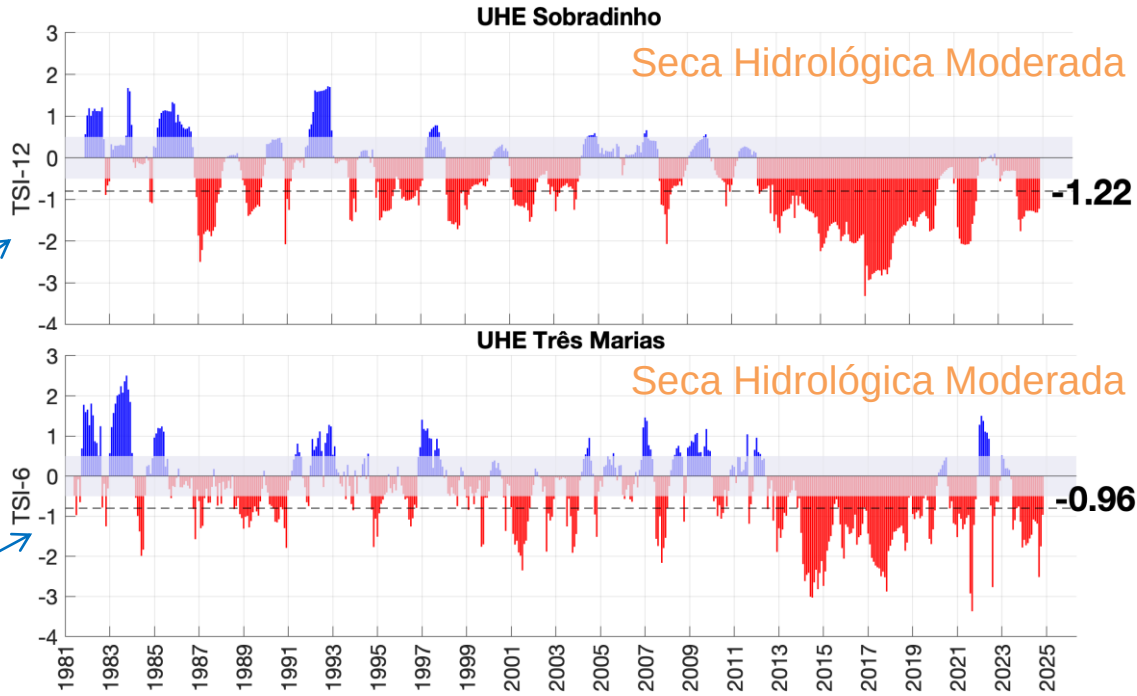
**Até 01/12/2024*

Dados de precipitação: INMET, ANA, CEMADEN.
Dados de vazão: ONS e ANA.

Monitoramento UHE Três Marias e Sobradinho

Índice Padronizado Bivariado (Chuva-Vazão) – Longo Prazo



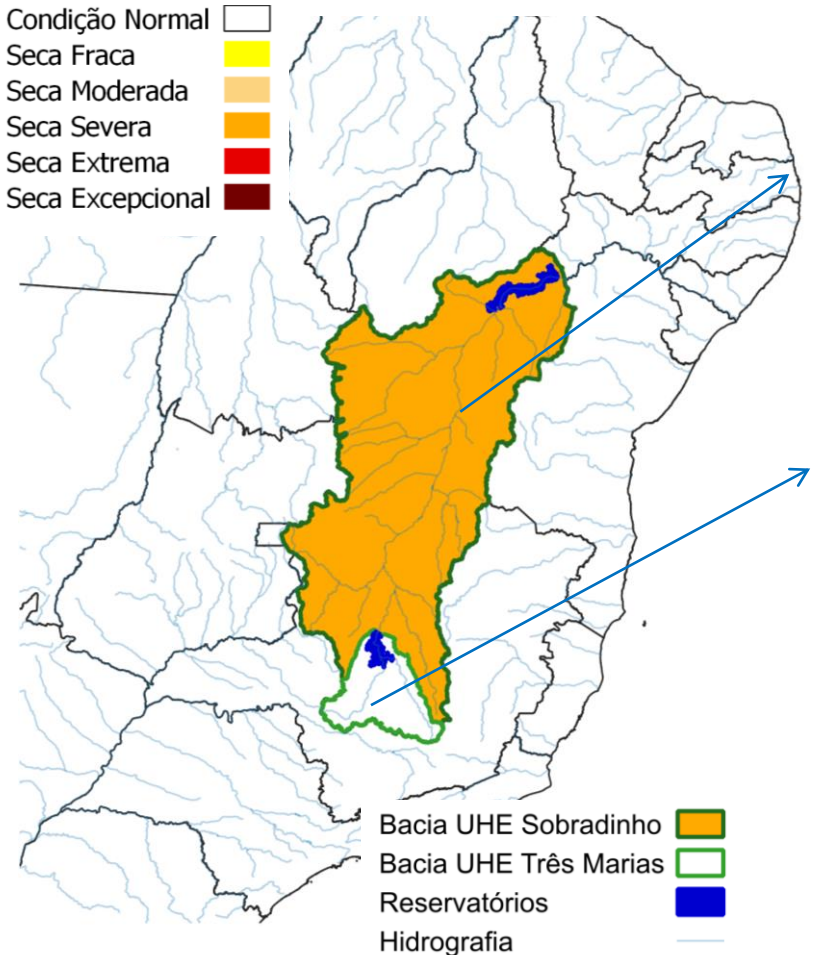


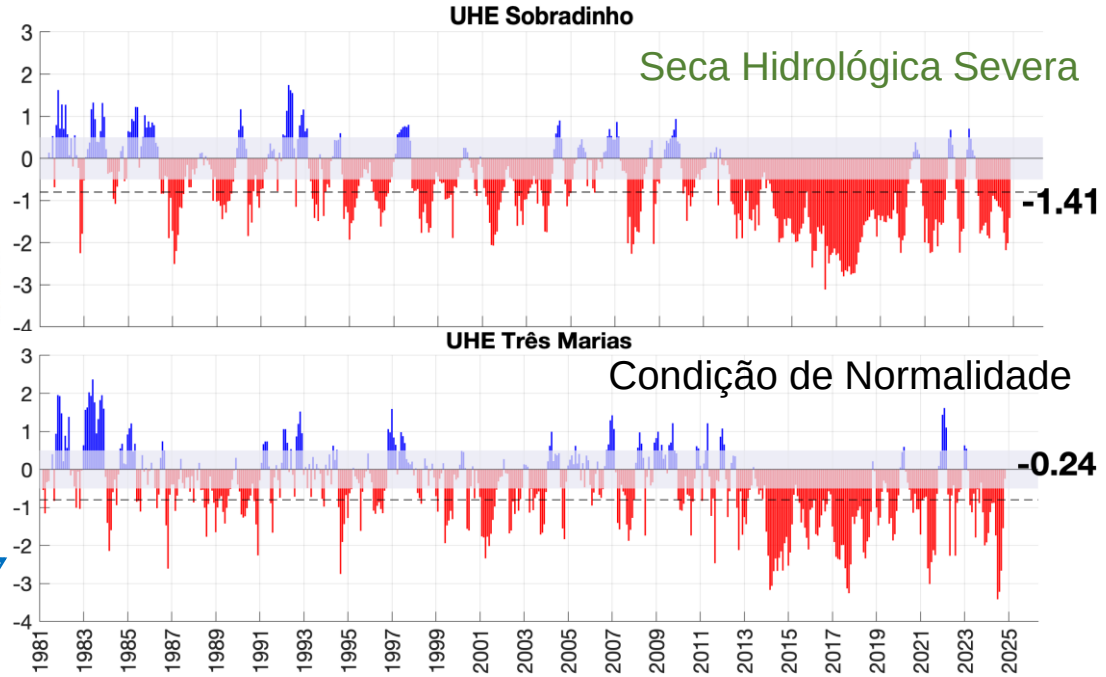
Bacia afluente à UHE:	TSI-Out	TSI-Nov
Sobradinho	Severa (-1.31)	Moderada (-1.22)
Três Marias	Extrema (-1.74)	Moderada (-0.96)

Fonte dos dados de vazão: ONS e ANA / Processamento do TSI: CEMADEN

Monitoramento UHE Três Marias e Sobradinho

Índice Padronizado Bivariado (Chuva-Vazão) – Curto Prazo

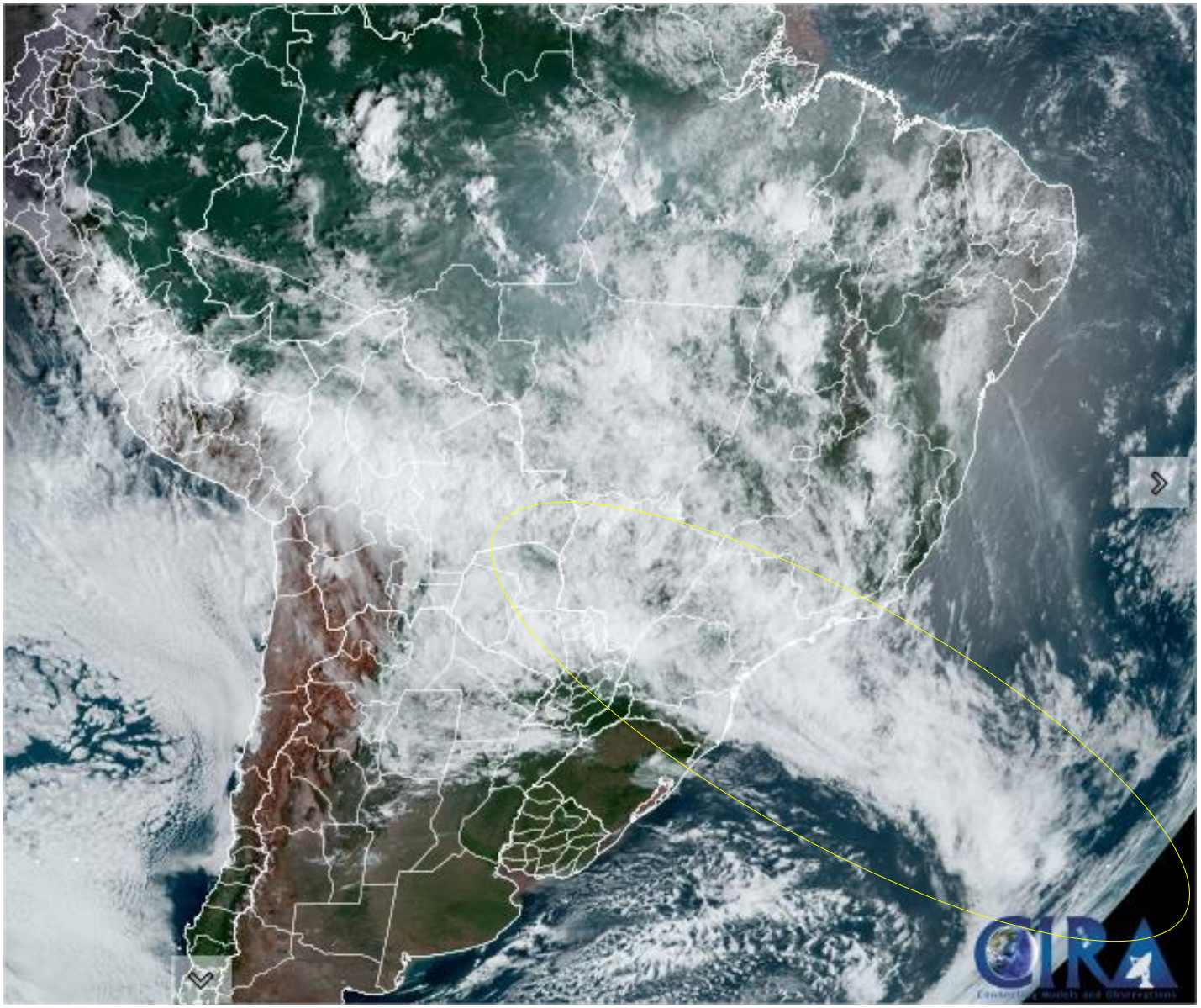




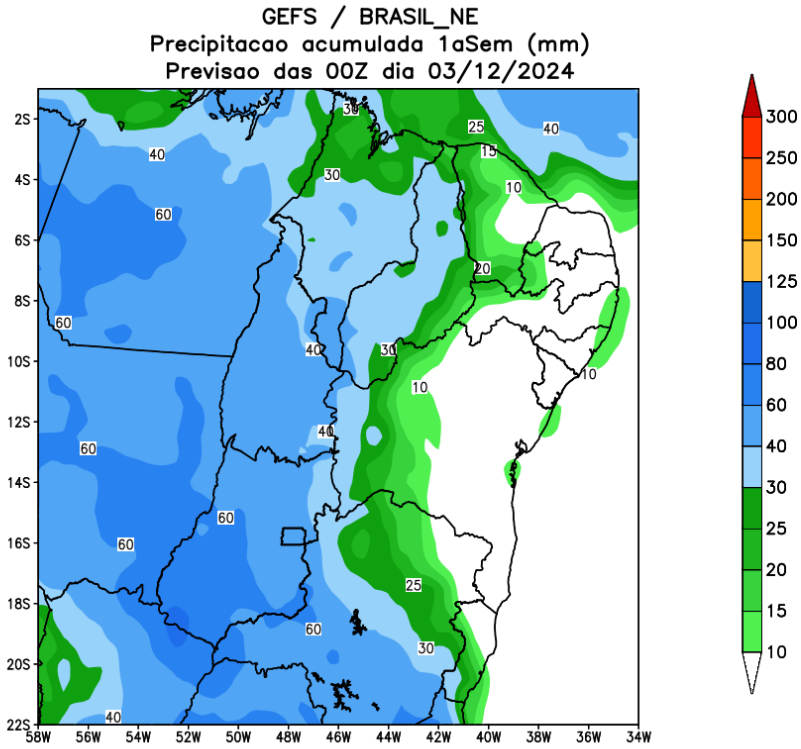
Bacia afluente à UHE:	TSI-Out	TSI-Nov
Sobradinho	Extrema (-2.00)	Severa (-1.41)
Três Marias	Severa (-1.51)	Normal (-0.24)

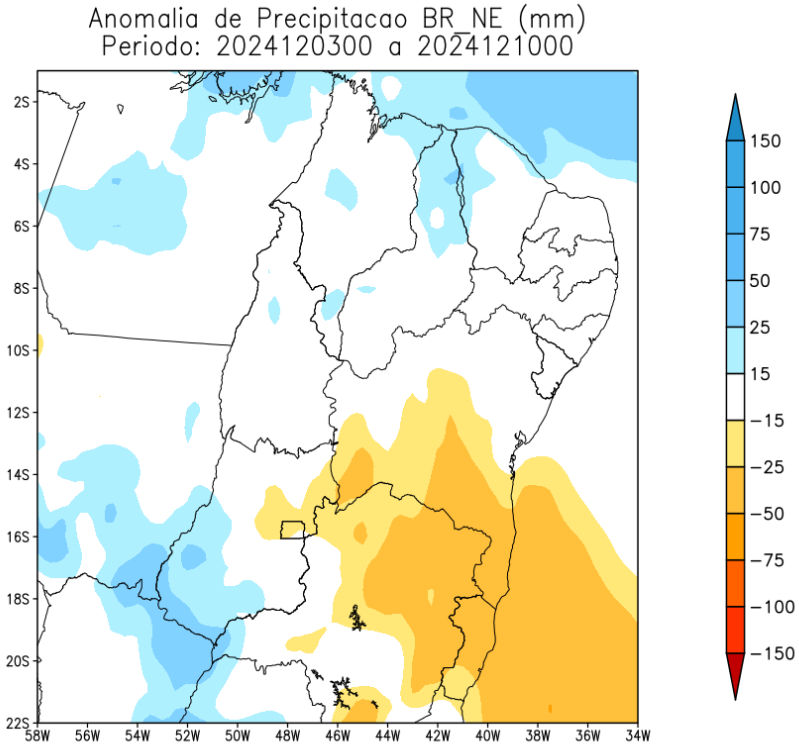
Fonte dos dados de vazão: ONS e ANA / Processamento do TSI: CEMADEN

Situação meteorológica atual



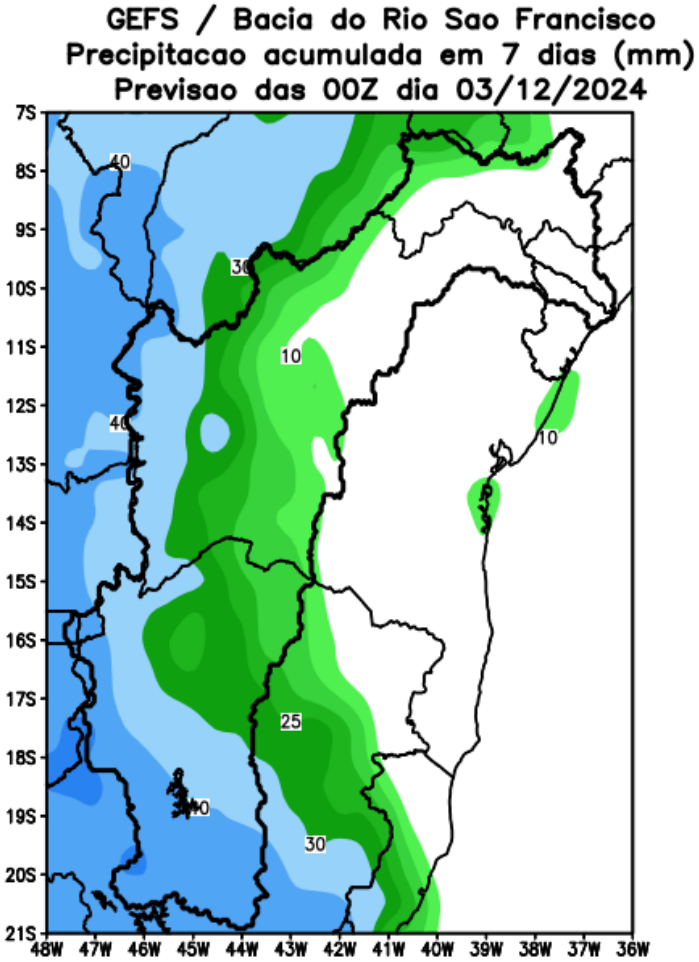
Previsão de chuva próximos 7 dias

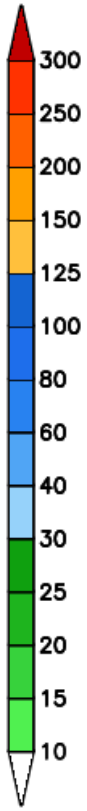


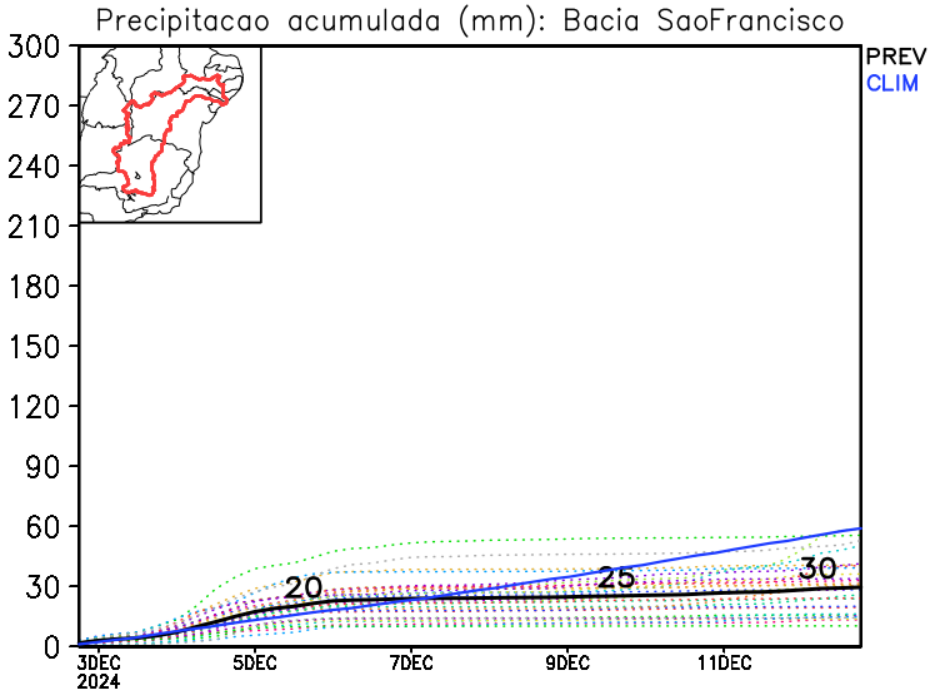


Fonte: GEFS/NOAA

Bacia do rio São Francisco

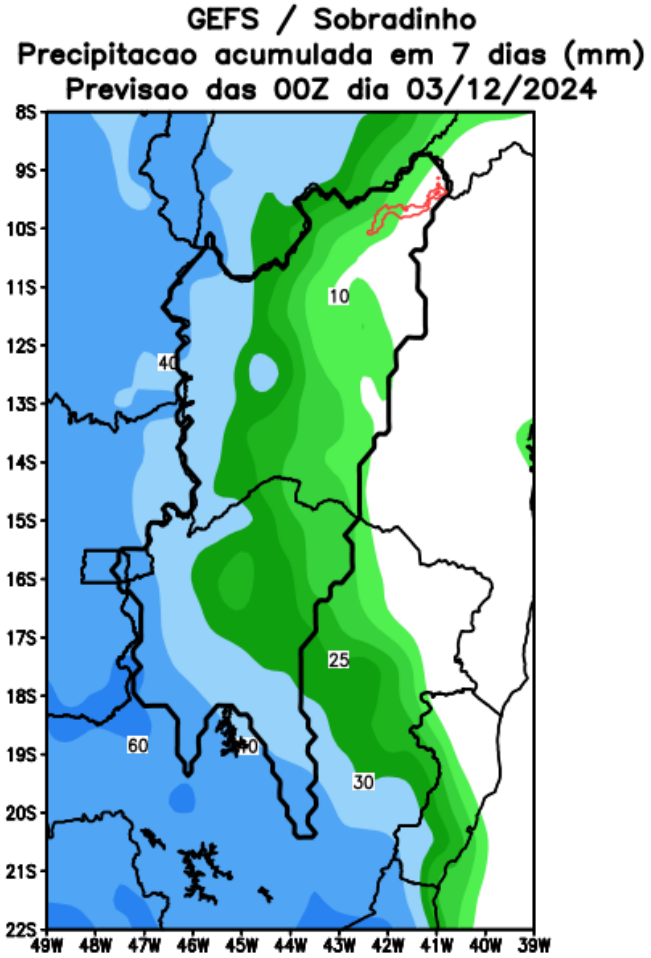


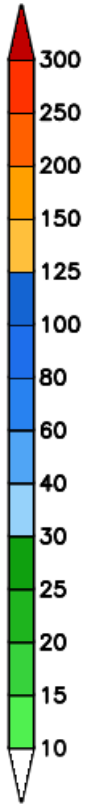


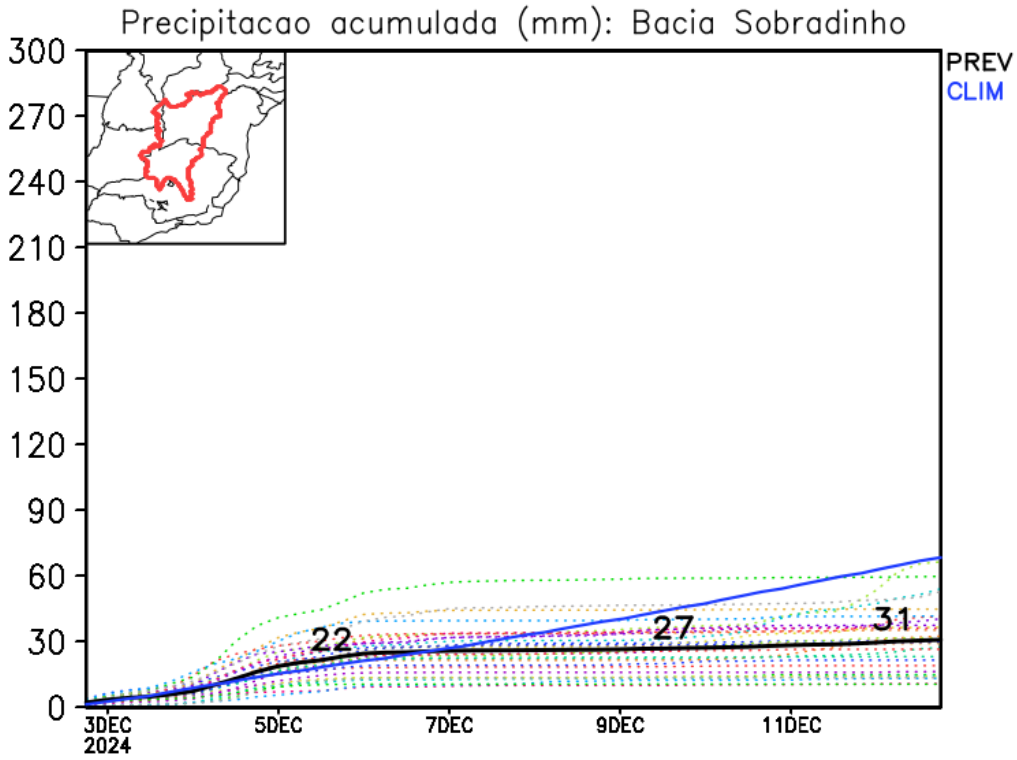


Modelo GFS/NOAA

Bacia de Sobradinho

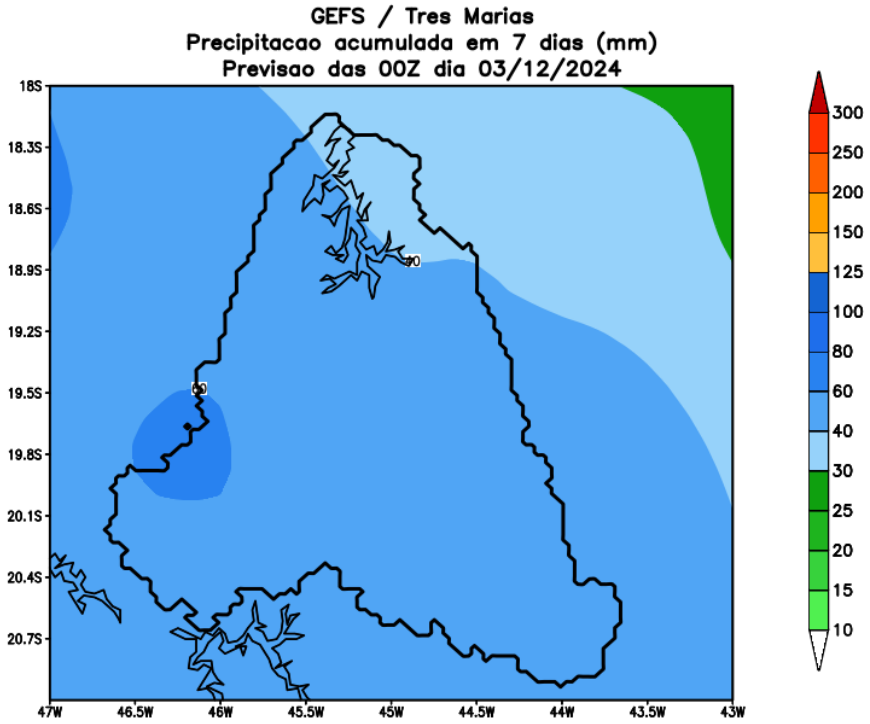


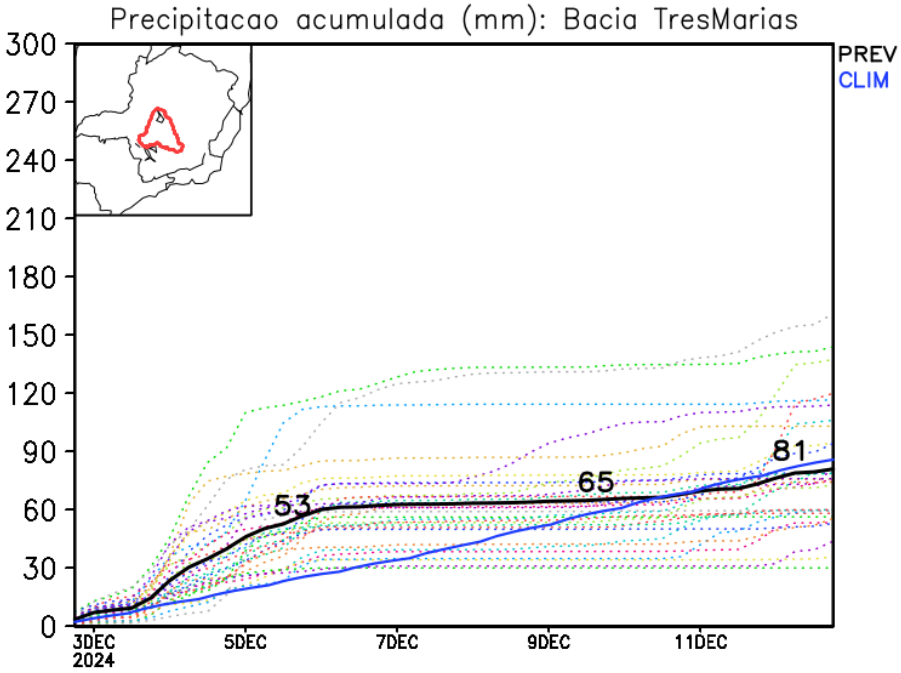




Modelo GFS/NOAA

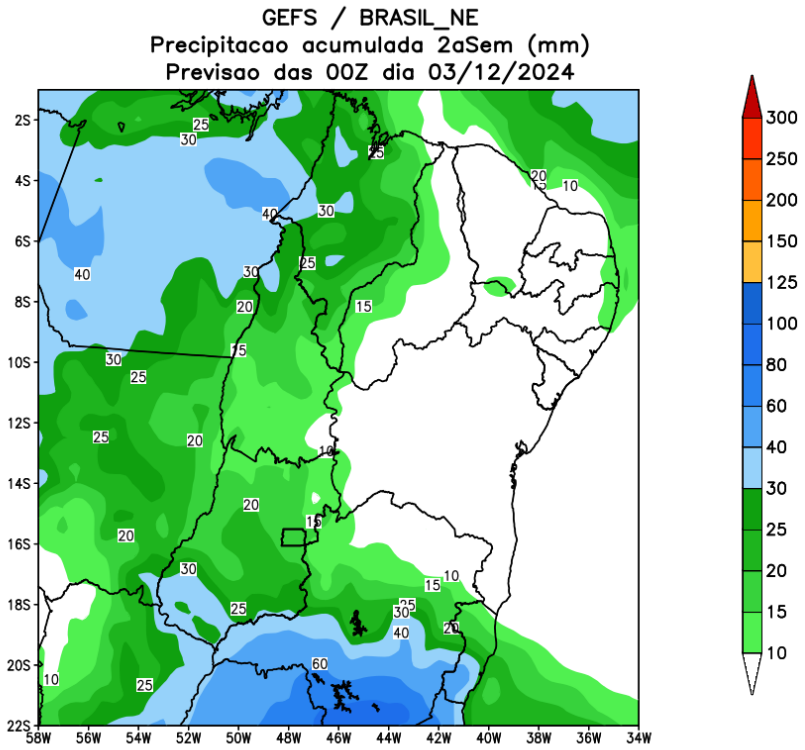
Bacia de Três Marias

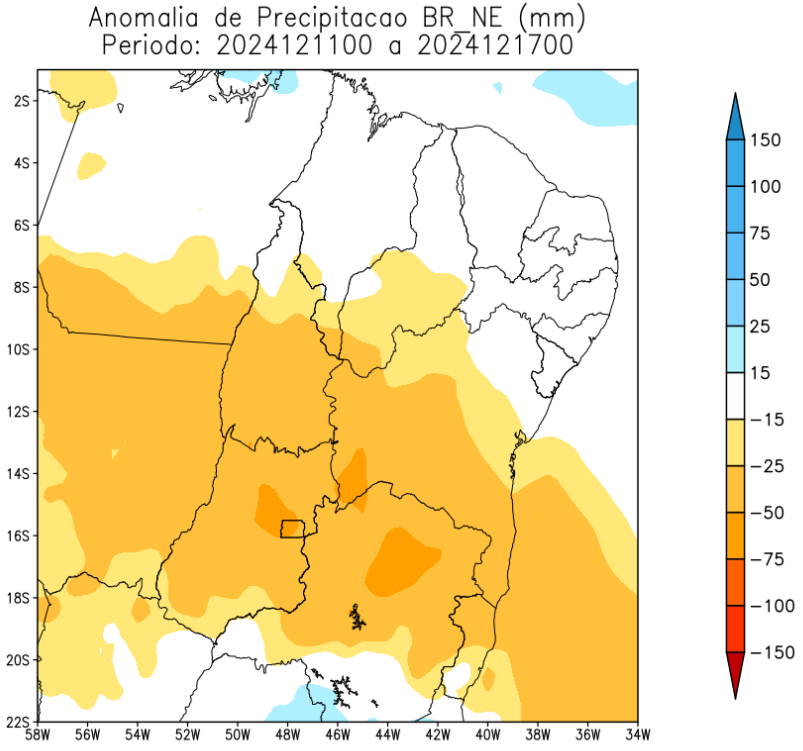




Modelo GFS/NOAA

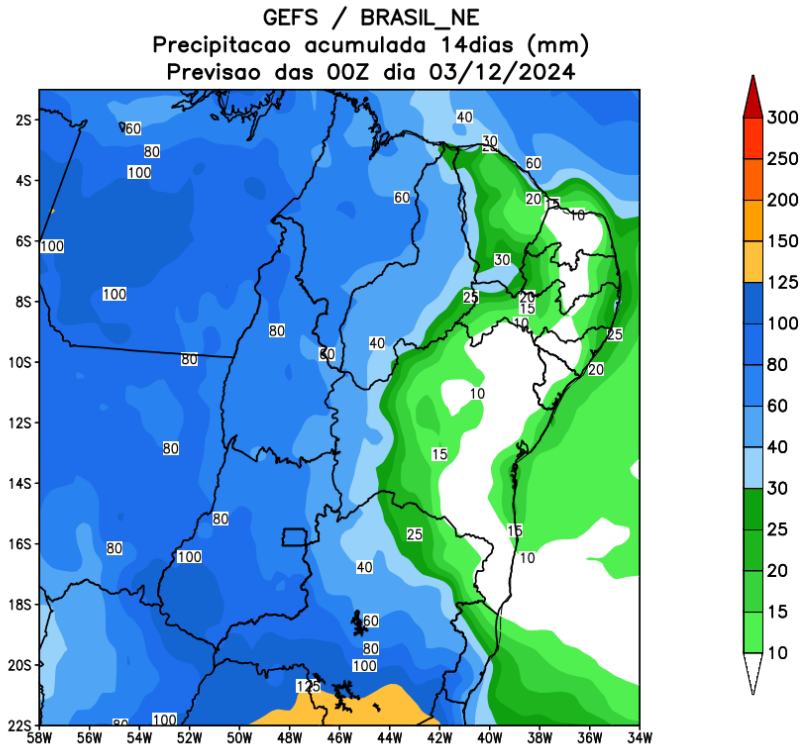
Tendência para a 2a semana

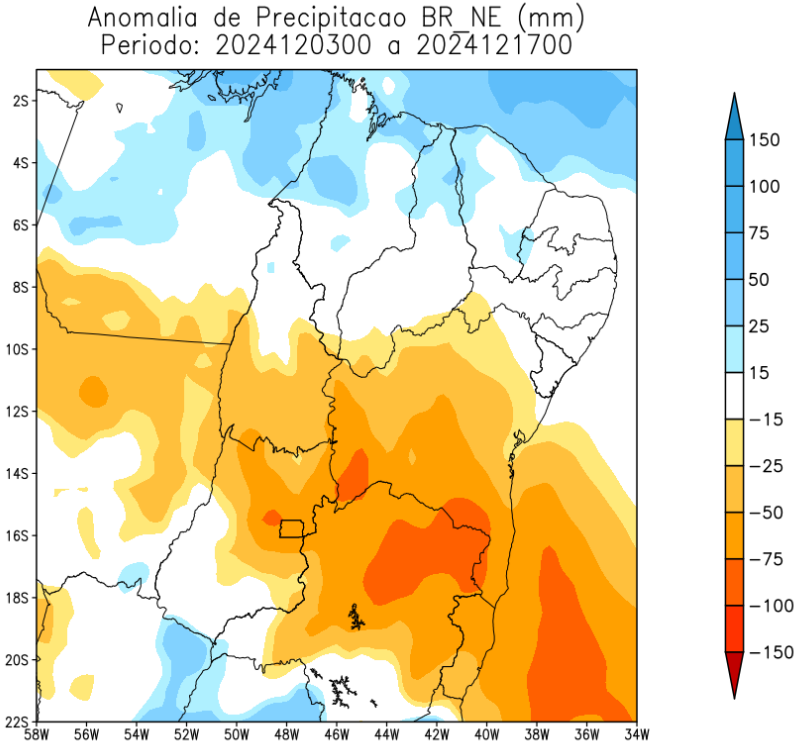




Modelo GFS/NOAA

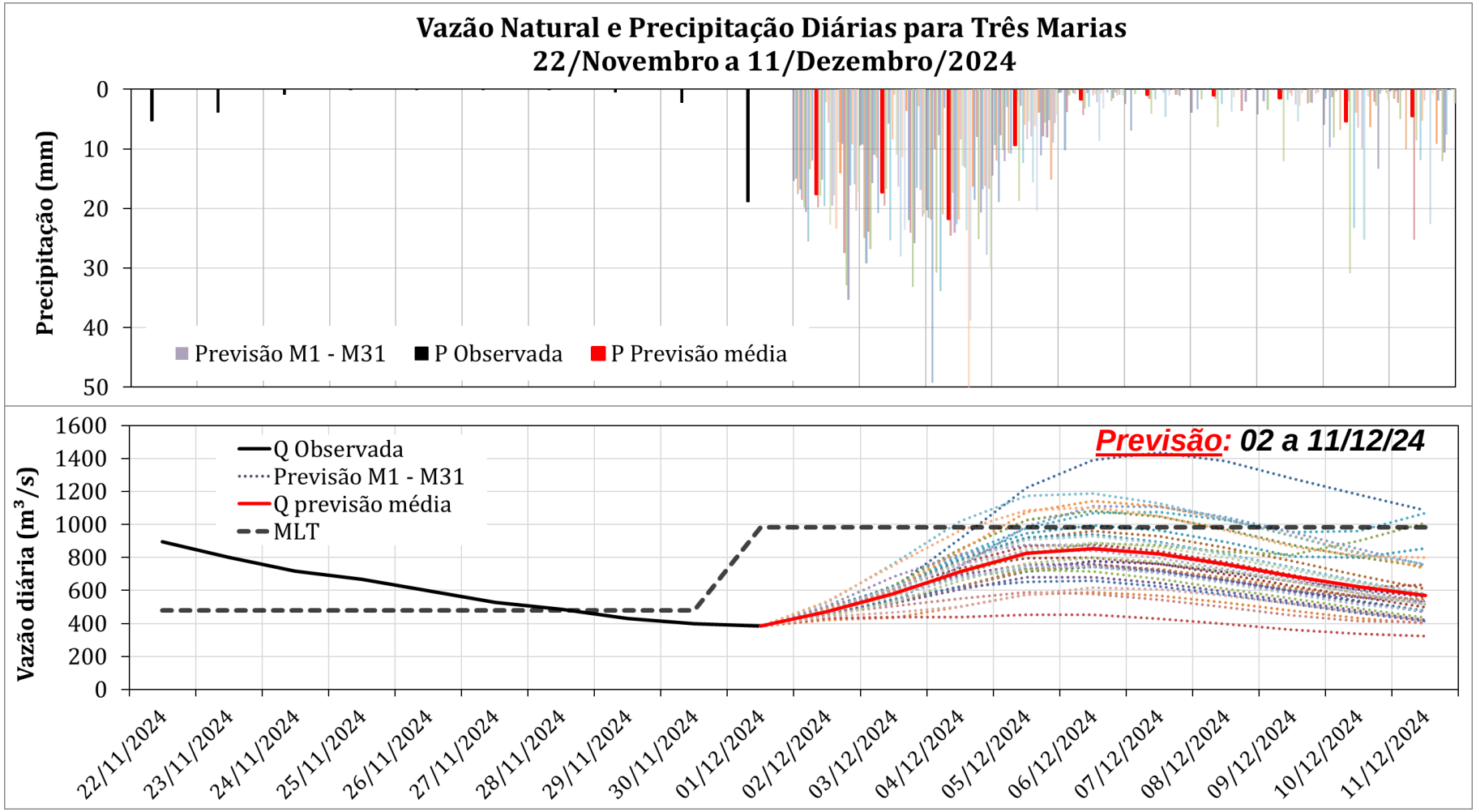
Tendência para as duas próximas semanas





Modelo GFS/NOAA

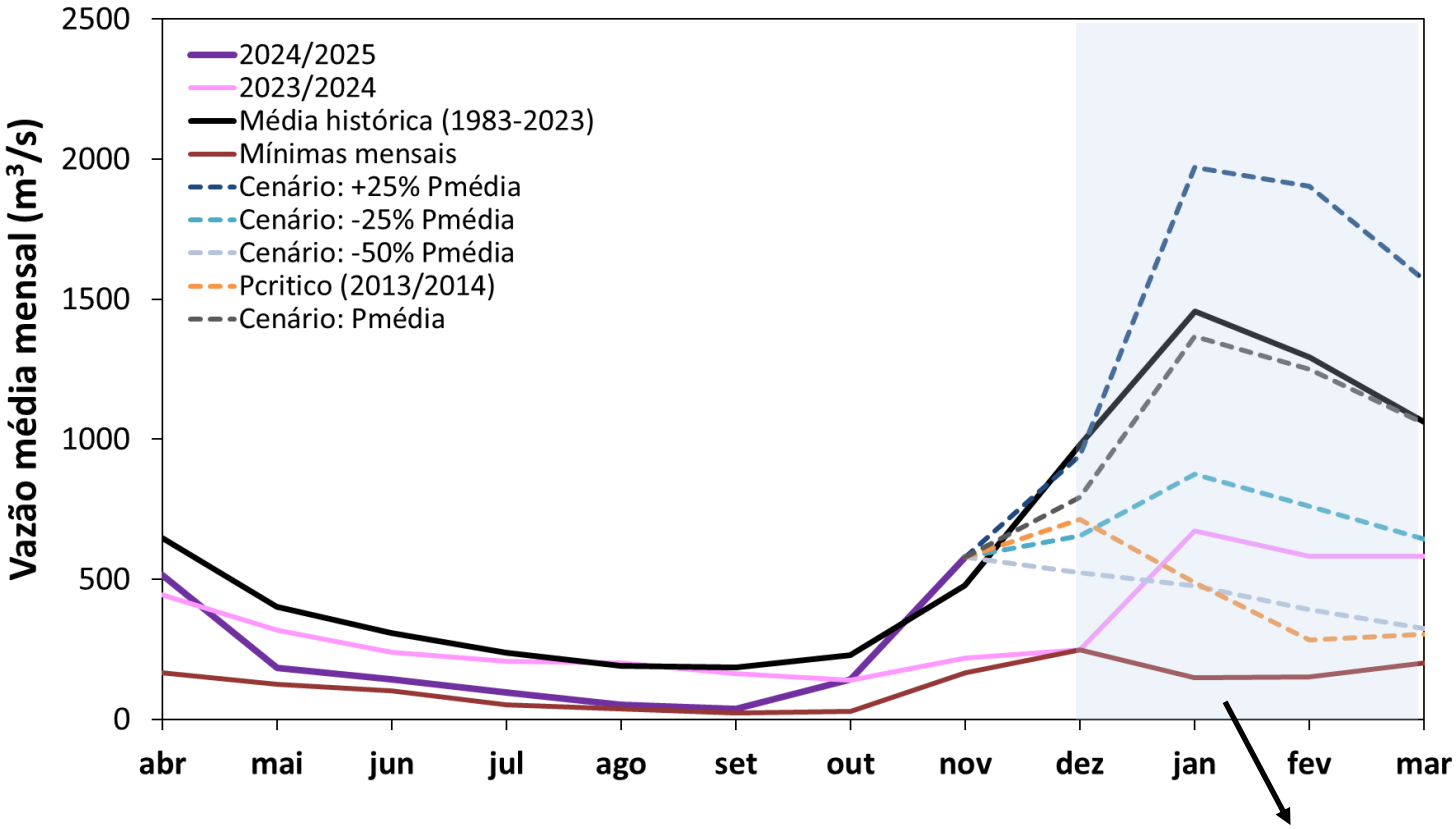
UHE Três Marias: Previsão de Vazão (modelo PDM/CEMADEN)



Previsão média para os próximos 10 dias: 690 m³/s

70% da MLT de Dezembro

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



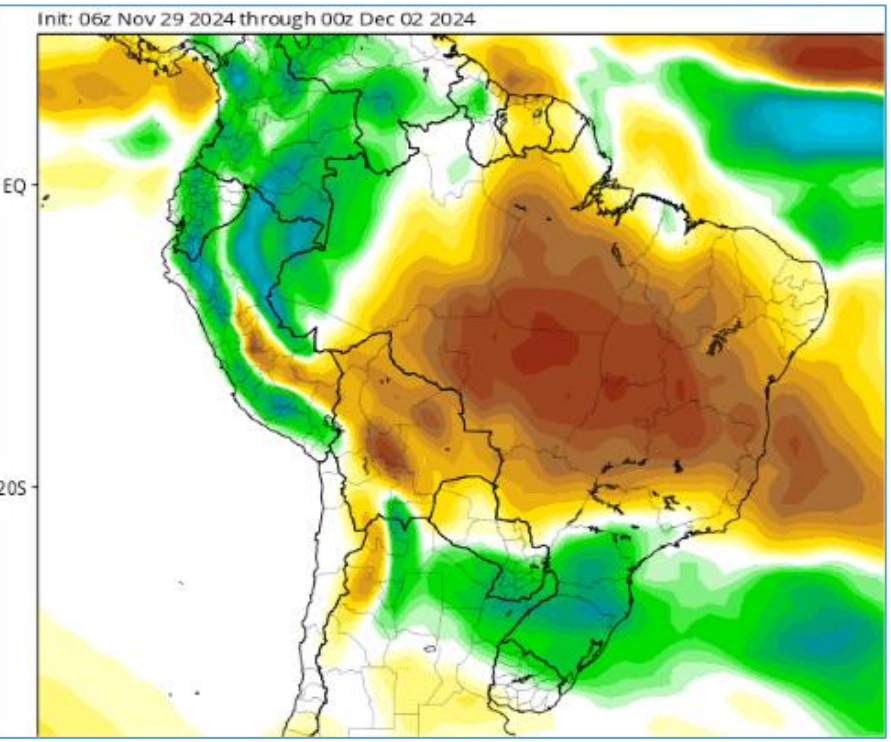
Dez-Mar (Meses Chuvosos)

MLT: 1198 m³/s

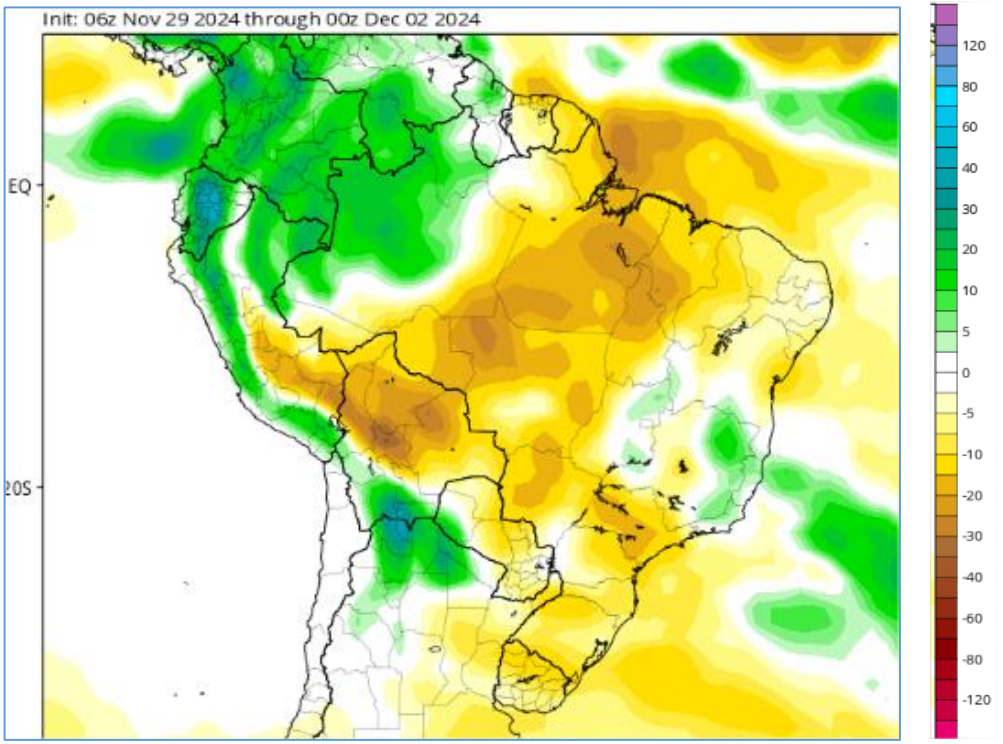
Vazão	% MLT
1600 m³/s	134%
1121 m³/s	94%
737 m³/s	62%
451 m³/s	38%

Tendência 3a e 4a semanas

16-23 Dez



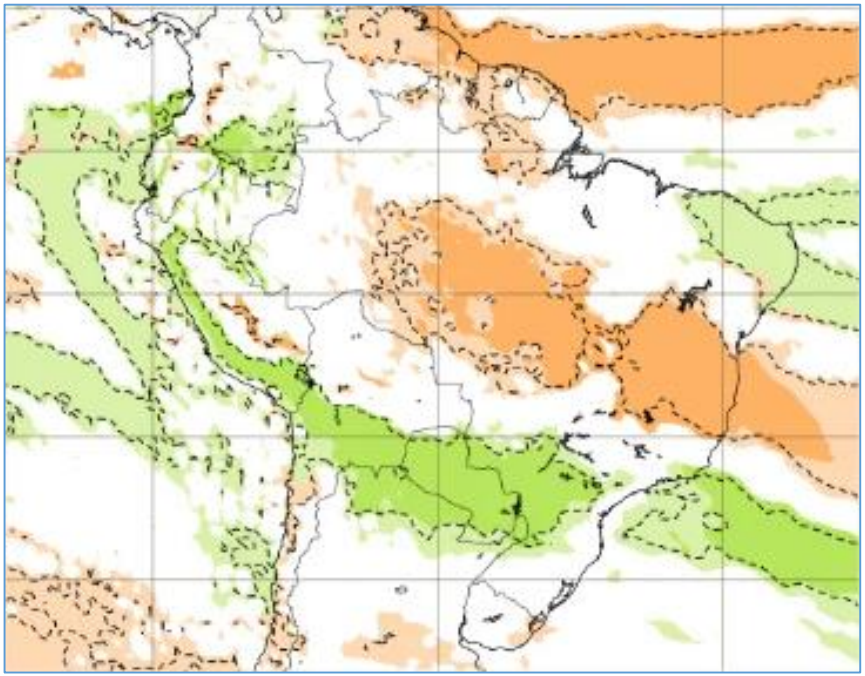
23-30 Dez



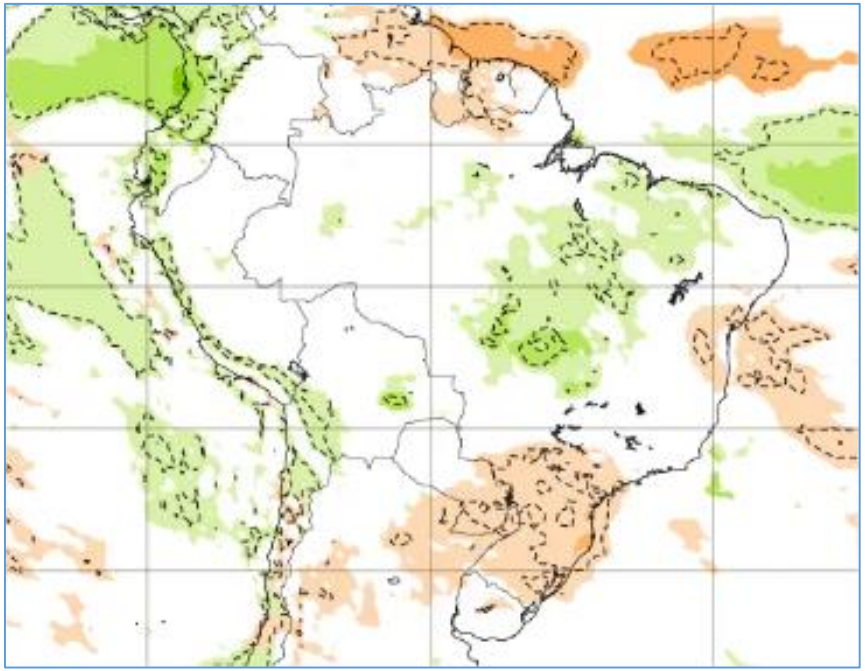
Modelo CFS/NOAA

Tendência para 3ª e 4ª semanas

16 – 23 Dez

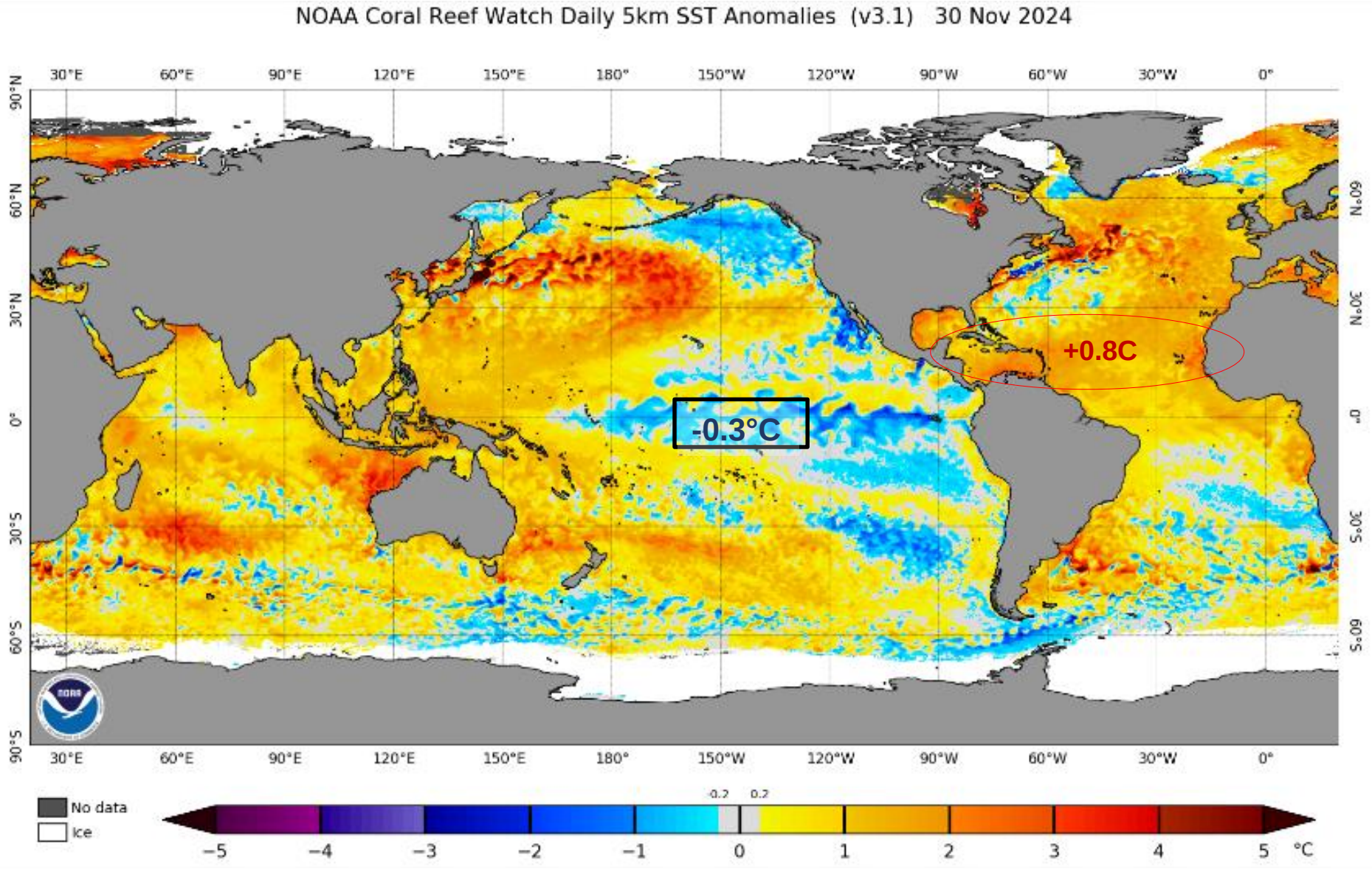


23-30 Dez

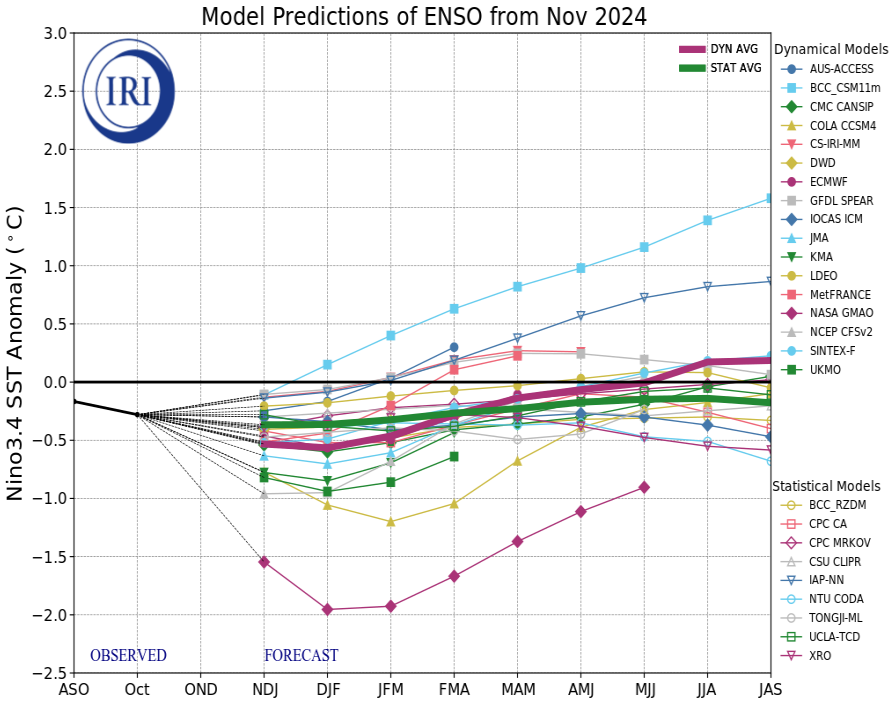


MODELO ECMWF

Status Atual: **La Niña Watch**



FONTE: NOAA



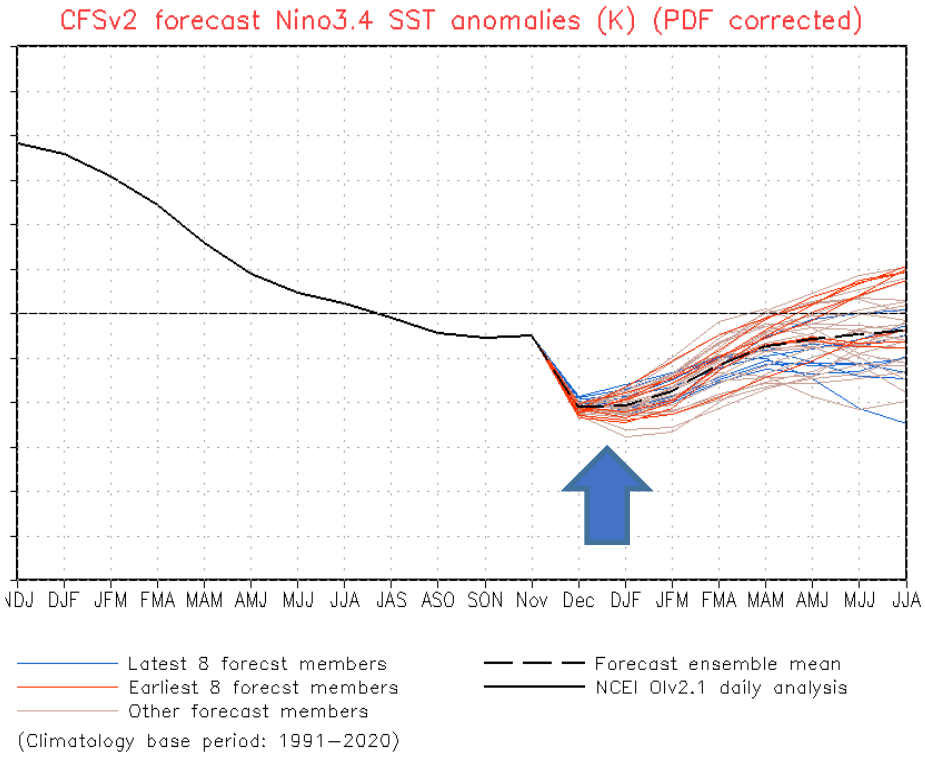
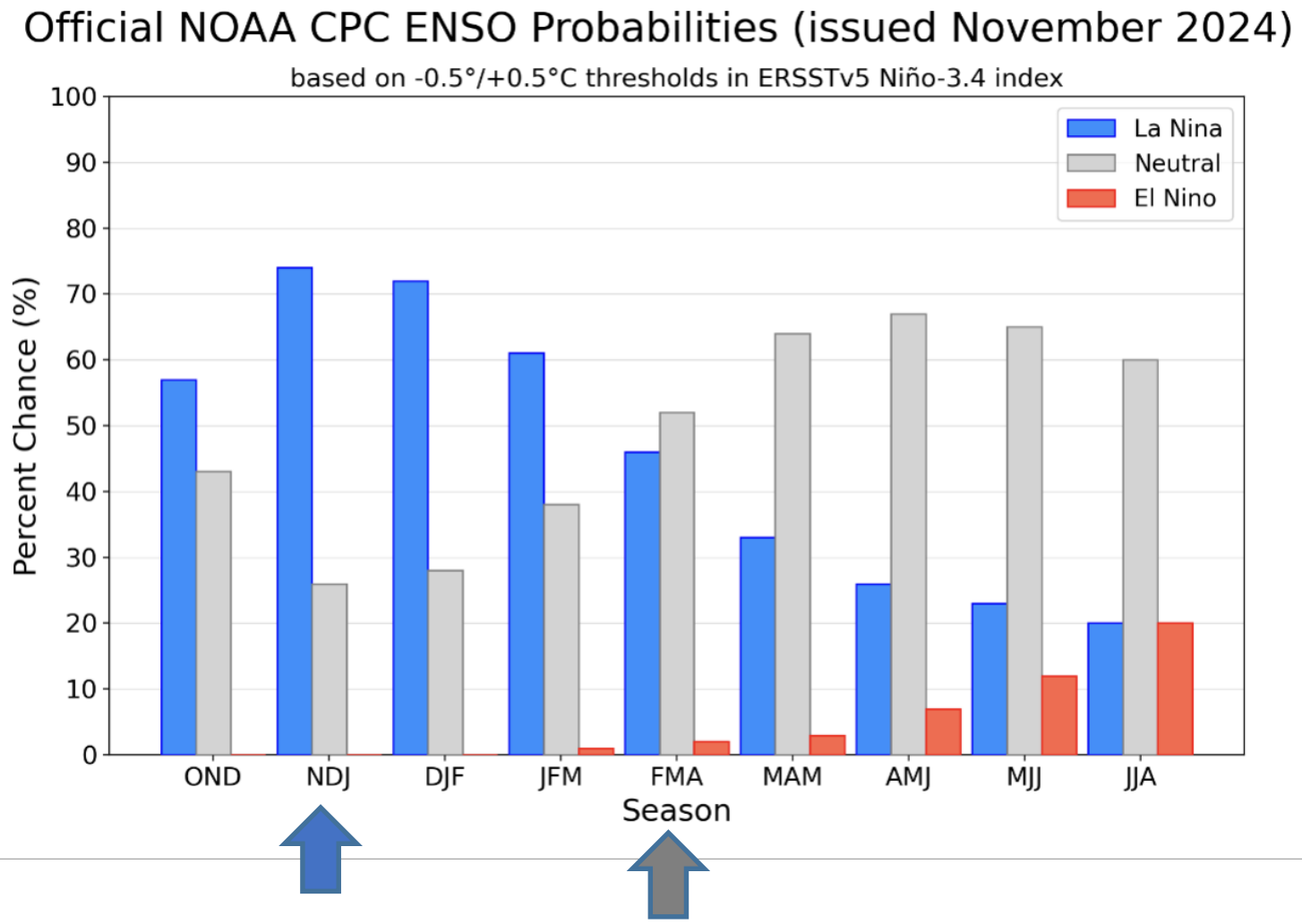


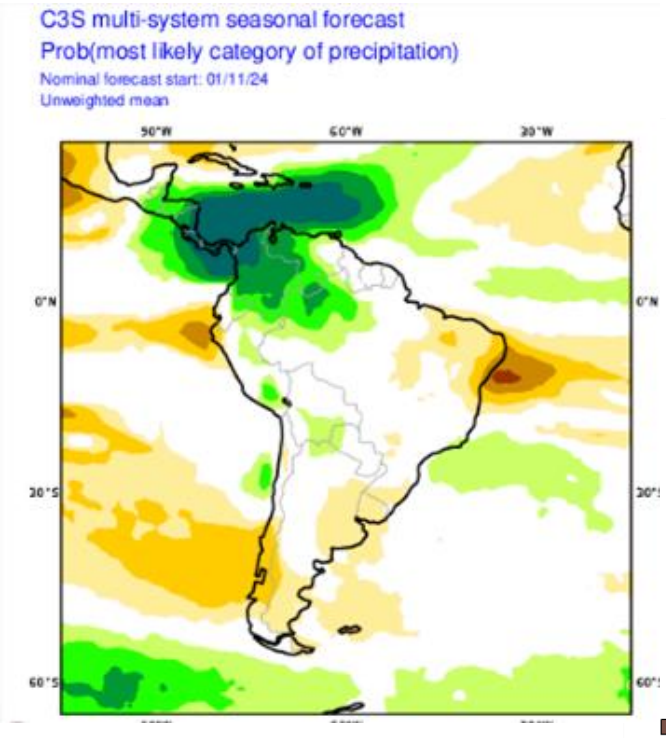
Figure provided by the International Research Institute (IRI) for Climate and Society (updated 19 November 2024).

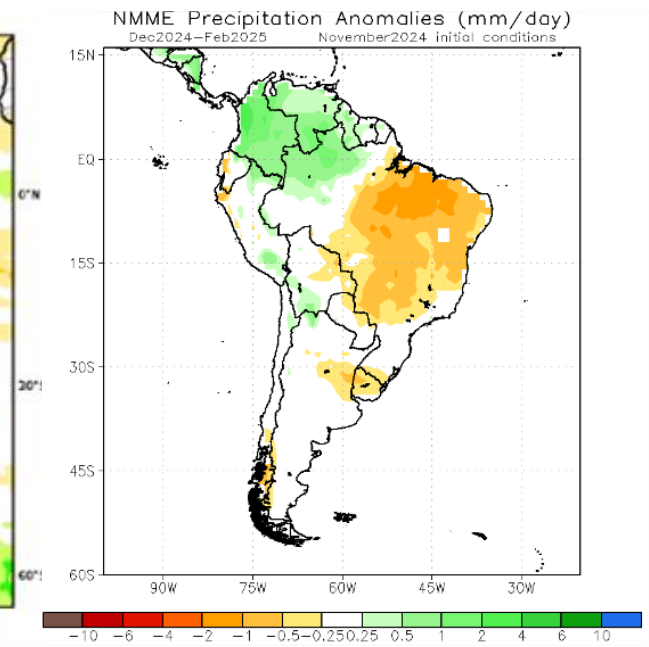
Previsão do “ENSO”

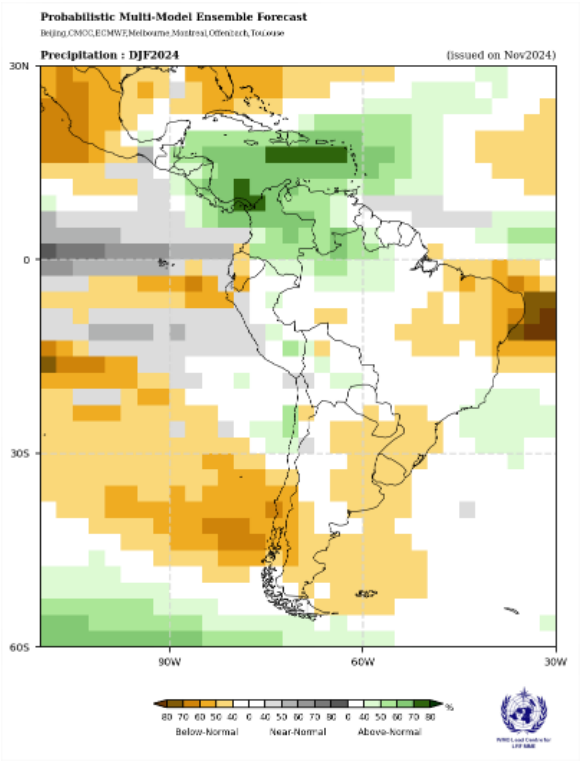


Previsão Sazonal de Chuva Multi-Modelo

Dezembro-Janeiro-Fevereiro







Modelos Europeus

Modelos Norte Americanos

Modelos da WMO