

Monitoramento e Previsões para a Bacia do rio Araguaia-Tocantins

OUTUBRO 2025

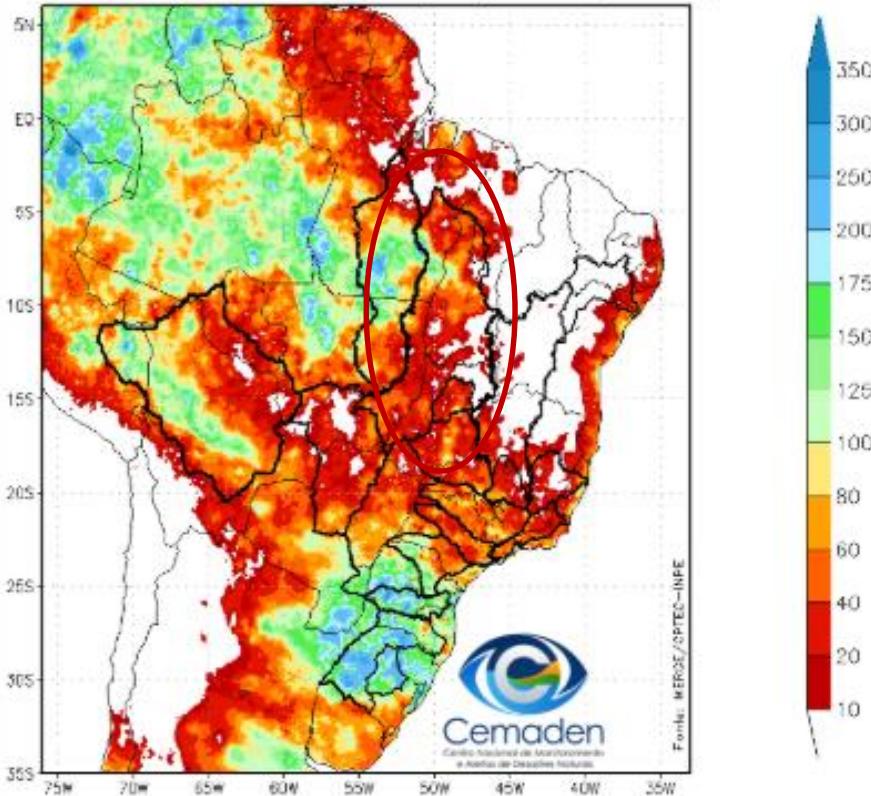


MINISTÉRIO DA
CIÊNCIA, TECNOLOGIA
E INOVAÇÃO

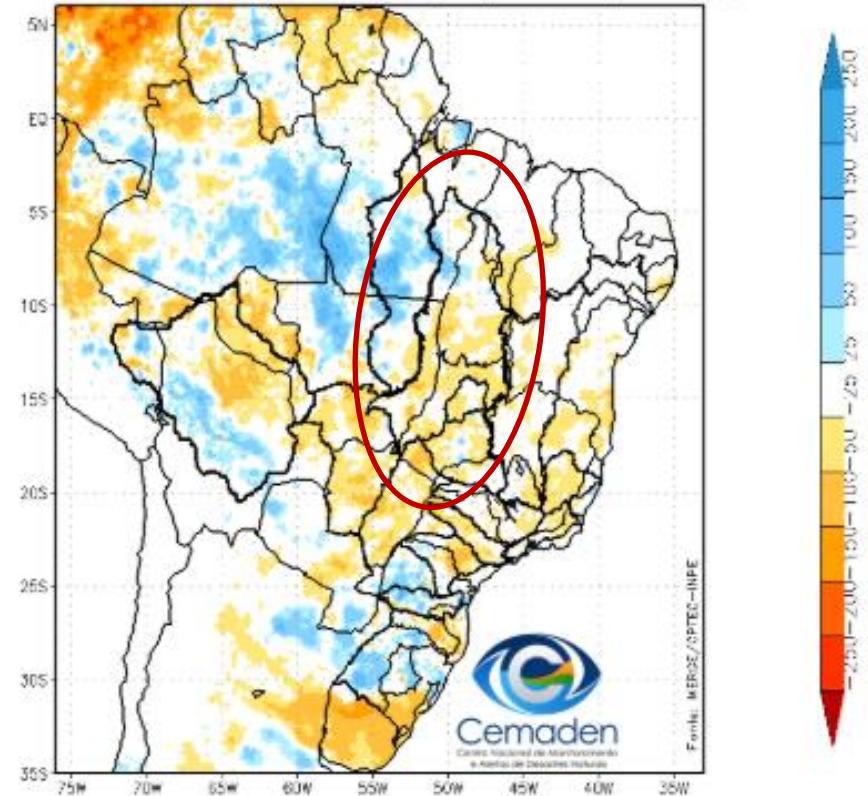


Precipitação acumulada nos últimos 30 dias

Precipitação Acumulada (mm) A.S.
Período: 14/09/2025 a 14/10/2025 (30 dias)



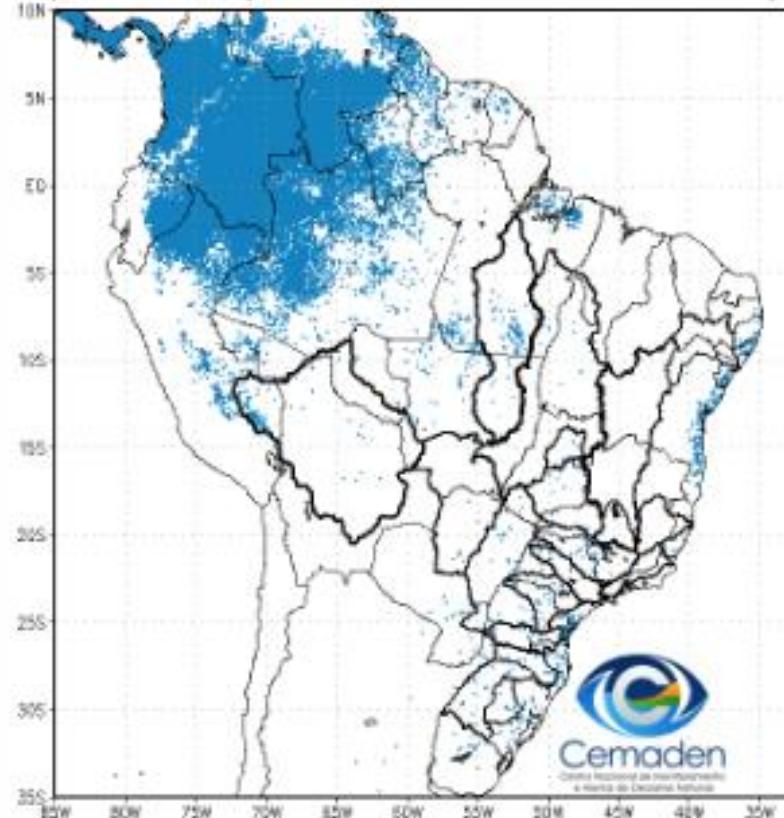
Anomalia de Precipitação (mm) A.S.
Período: 14/09/2025 a 14/10/2025 (30 dias)



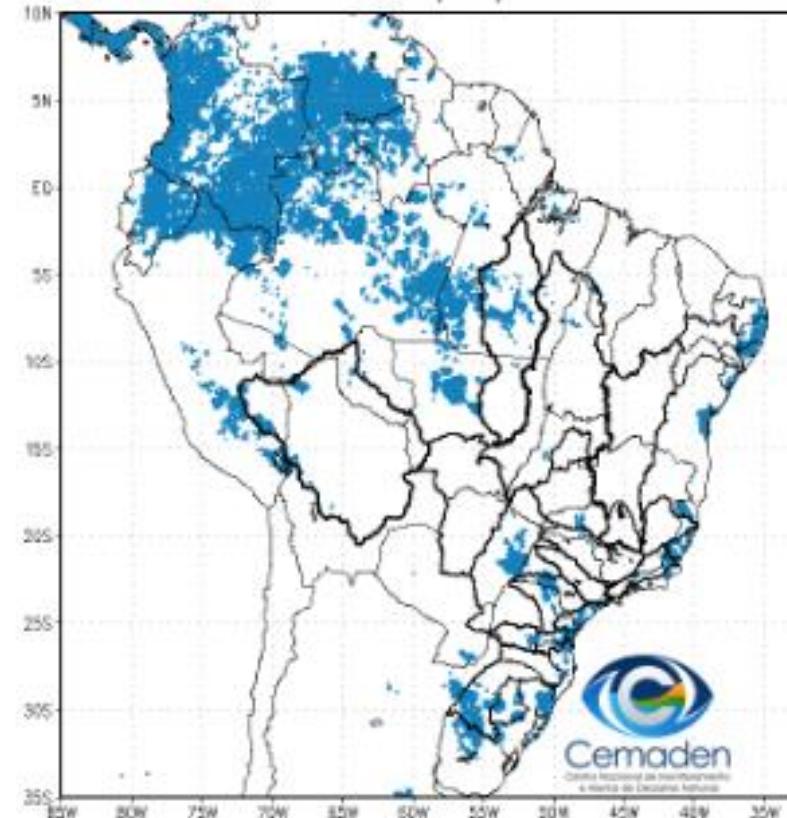
Fonte dos dados: Merge/INPE

Situação da Estação Chuvosa

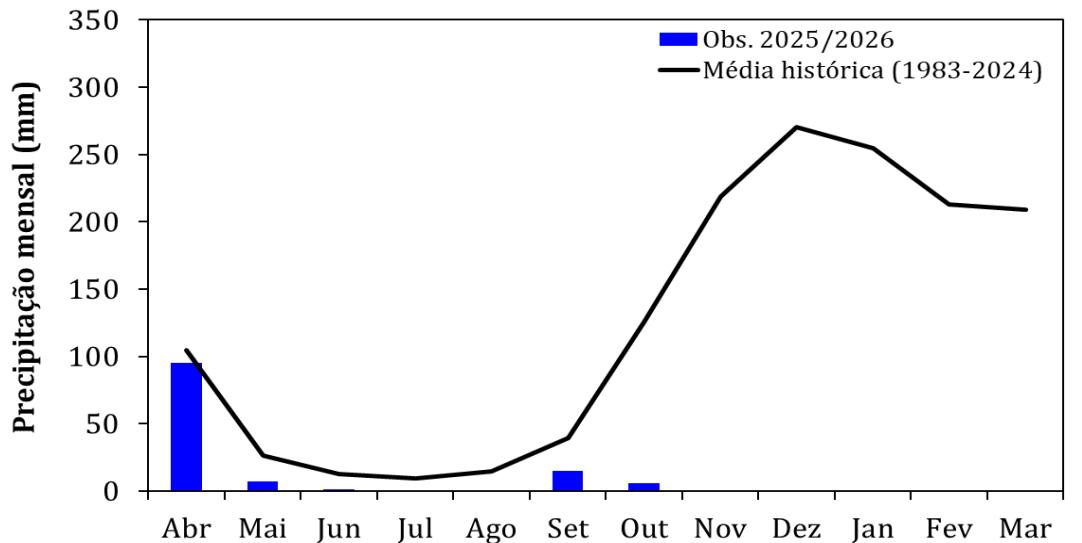
Climatologia da Precipitação (2001–2024)
Superior 3 mm/dia em 4 de 5 dias Período: 14/10



Precipitação A.S. Superior a 3 mm/dia por 4 de 5 dias
Período: 14/10/2025



Monitoramento UHE Serra da Mesa



Precipitação

Estação Chuvosa - Out a Abr – 1396 mm

2023/2024: 1245 mm (**89% da MLT**)

2024/2025: 1355 mm (**97% da MLT**)

Estação Seca - Maio a Set – 102 mm

2024: 2 mm (**2% da MLT**)

2025: 24 mm (**23% da MLT**)

Set/2025: 15 mm (**38% da MLT**)

Out/2025*: 6 mm (**11% da MLT Parcial**)

*Até 13/10/2025

Vazão

Estação Chuvosa - Out a Abr – 913 m³/s

2023/2024: 751 m³/s (**82% da MLT**)

2024/2025: 881 m³/s (**97% da MLT**)

Estação Seca - Maio a Set – 295 m³/s

2024: 183 m³/s (**62% da MLT**)

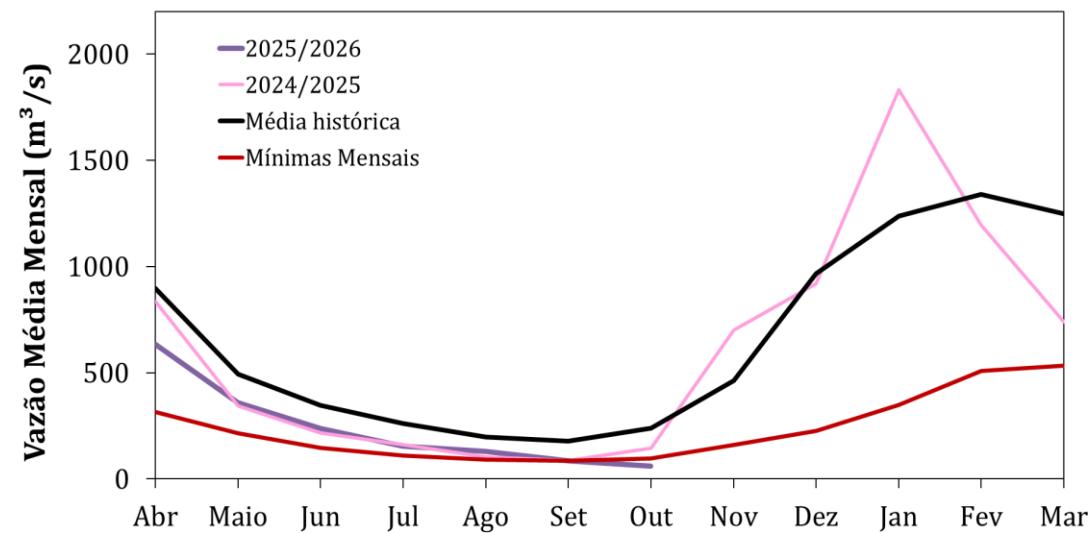
2025: 194 m³/s (**66% da MLT**)

Set/25: 86 m³/s (**48% da MLT**)

Out/25**: 61 m³/s (**25% da MLT**)

13/Out/25: 57 m³/s (**24% da MLT**)

**Até 13/10/2025



Média de Longo Término – MLT = 1983-2024

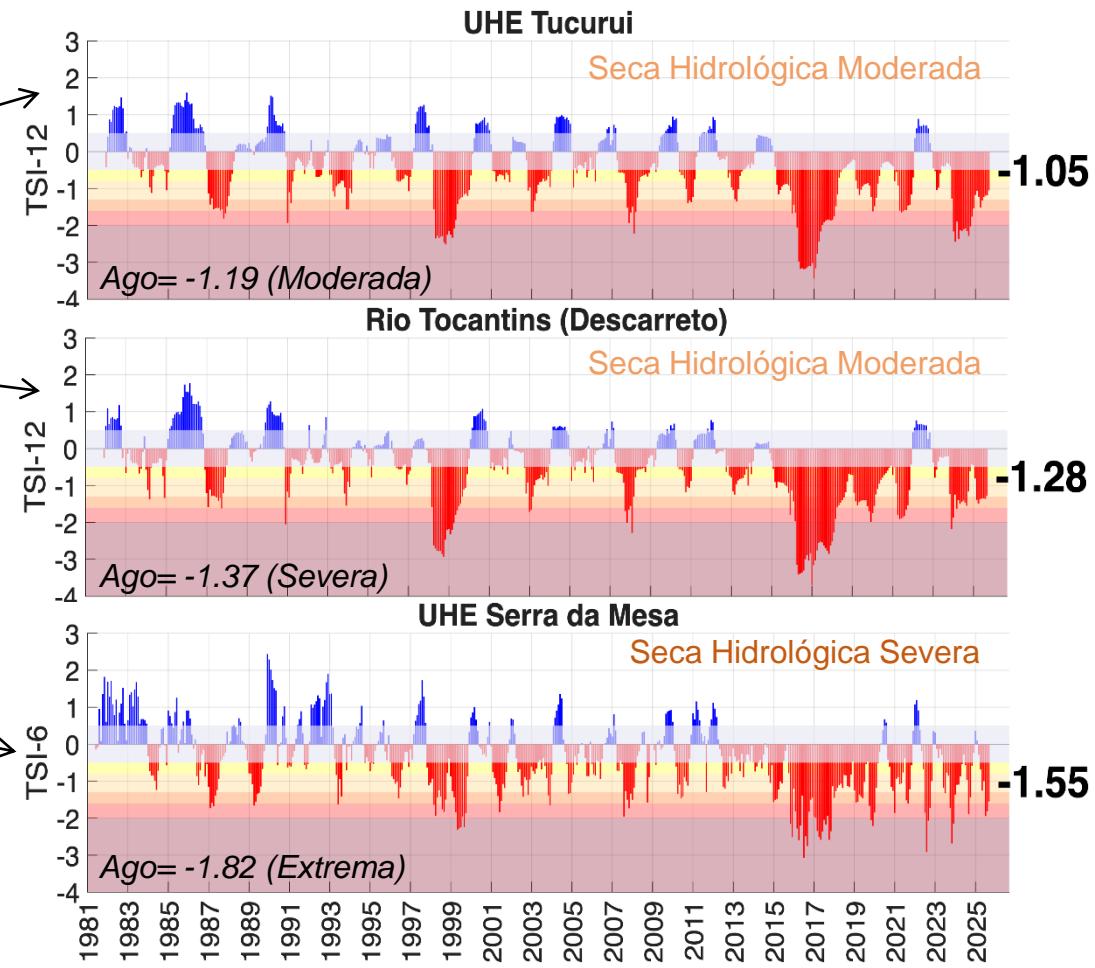
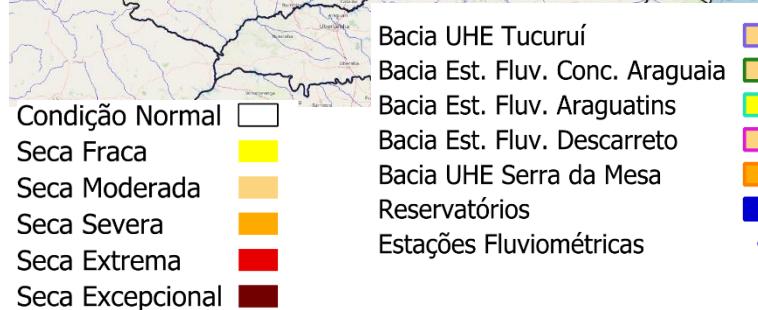
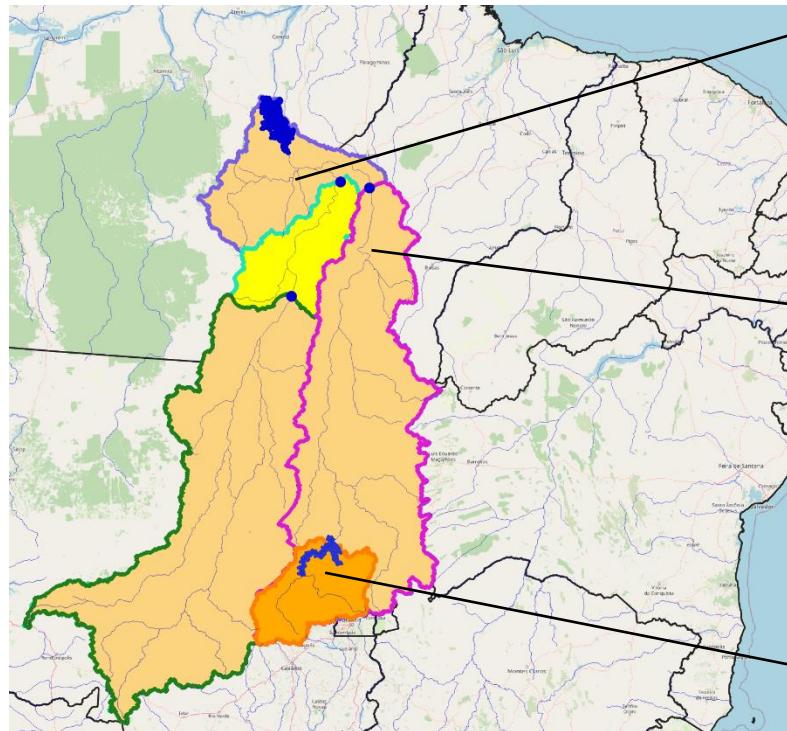
Dados de precipitação: INMET, ANA, CEMADEN

Dados de vazão: ONS e ANA

Índice Bivariado de Seca (Precipitação-Cota/Vazão) - TSI

Escala de longo prazo

Setembro/2025

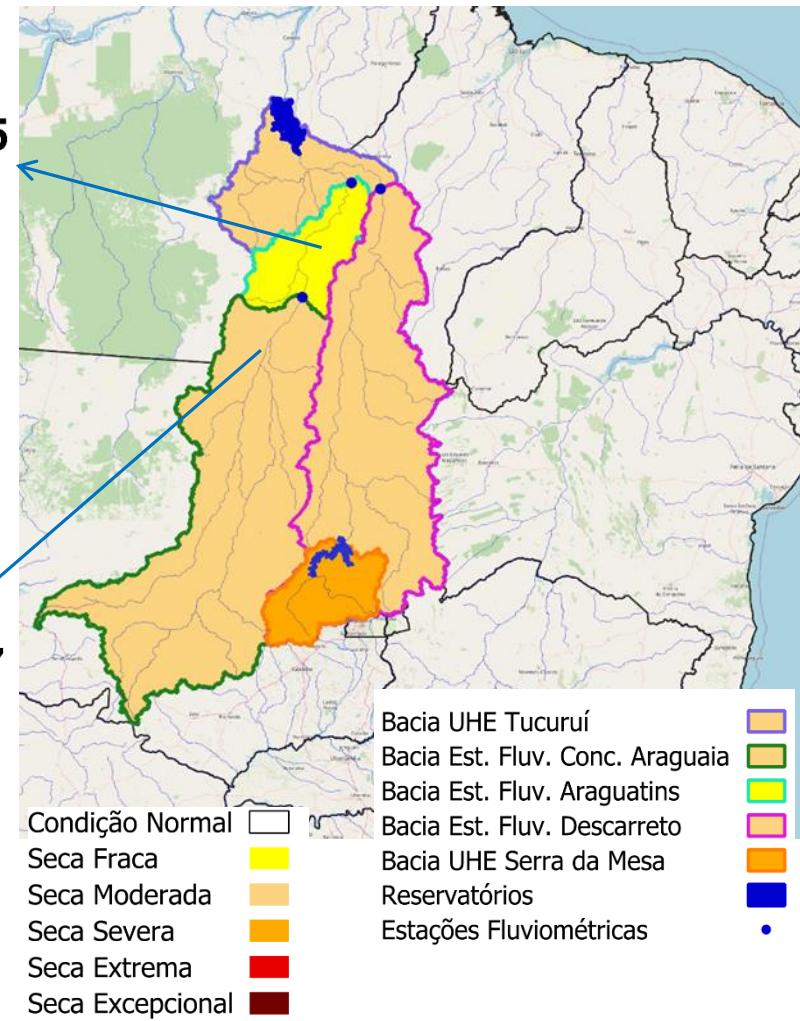
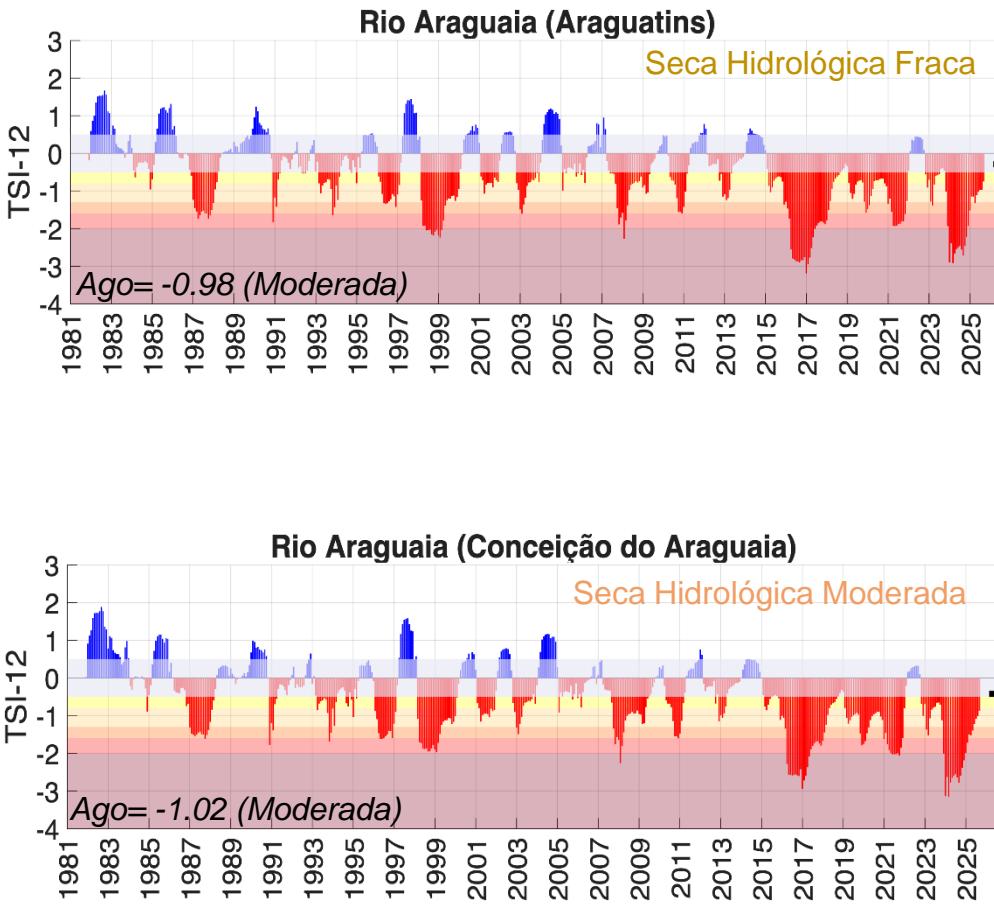


Fonte: CEMADEN
Dados: Precipitação (Cemaden/INMET/CHIRPS) e
Vazão (ONS/ANA) - Jan/81-Set/25.

Índice Bivariado de Seca (Precipitação-Cota/Vazão) - TSI

Escala de longo prazo

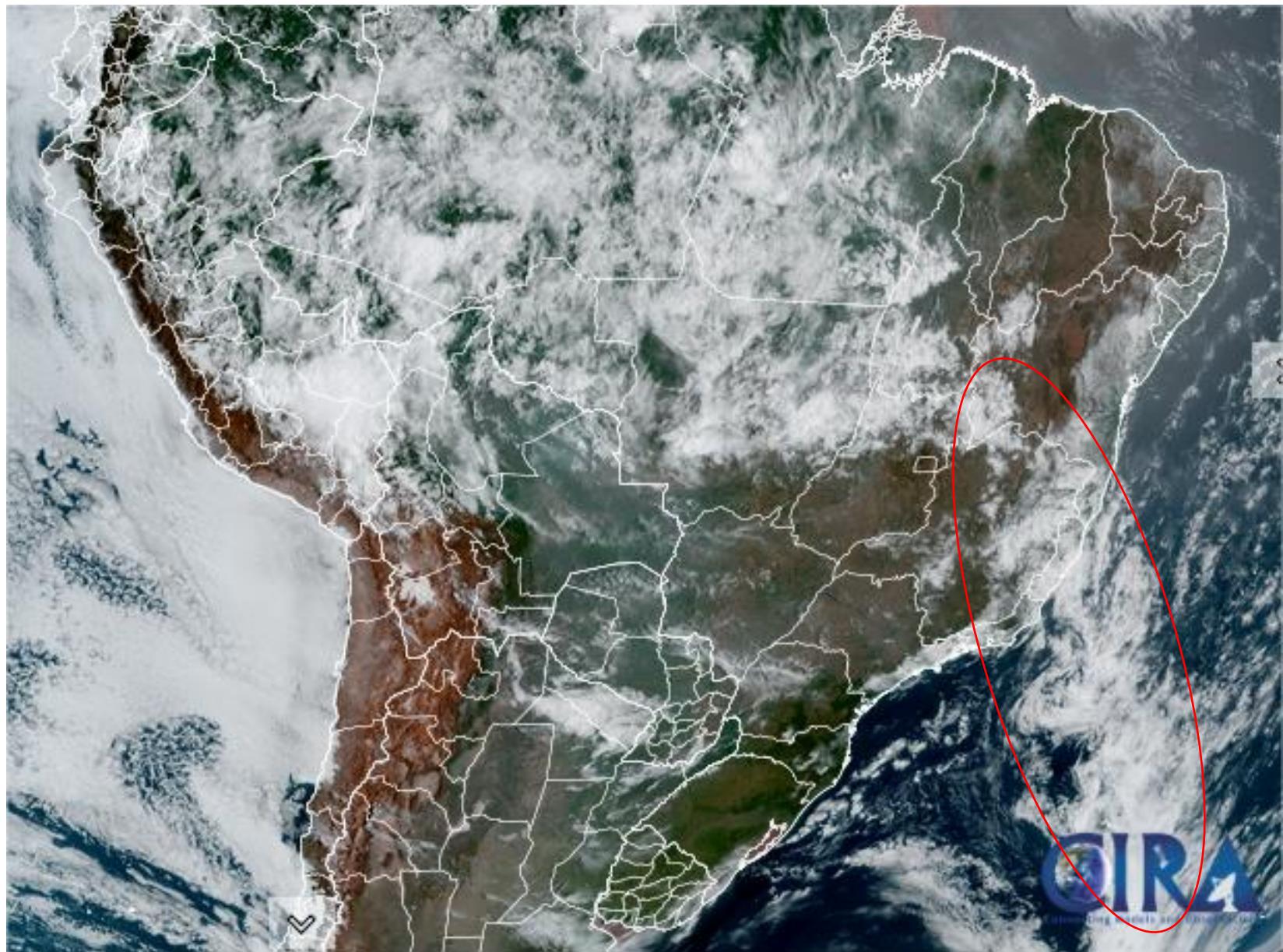
Setembro/2025



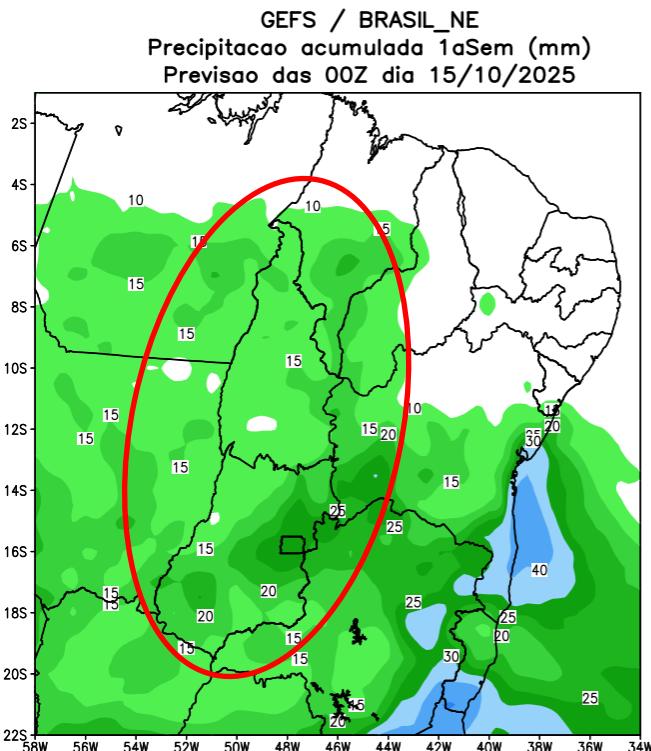
Fonte: CEMADEN

Dados: Precipitação (Cemaden/INMET/CHIRPS) e
Vazão (ONS/ANA) - Jan/1981-Set/2025.

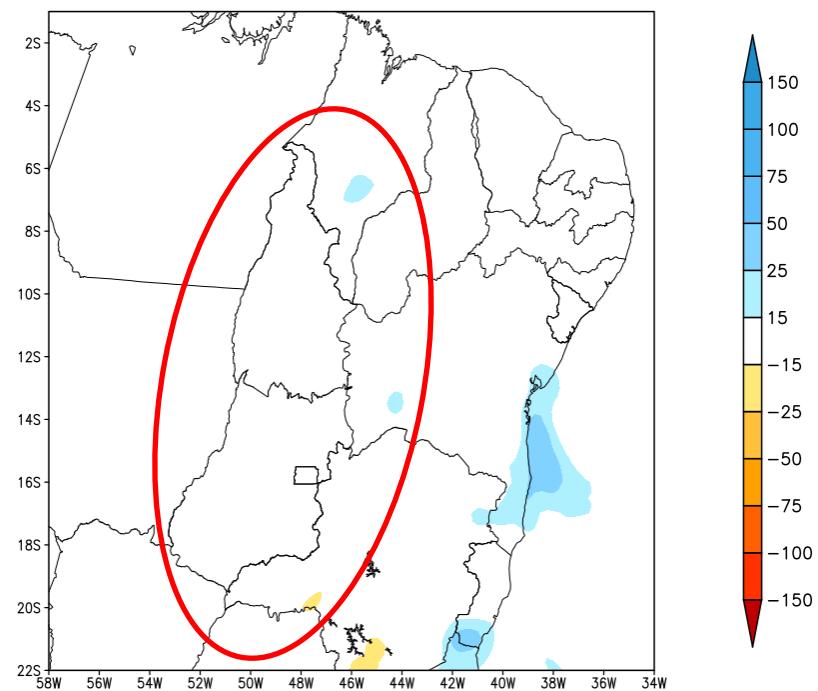
Situação meteorológica atual



Previsão de chuva - 1a Semana



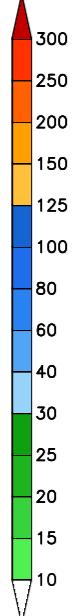
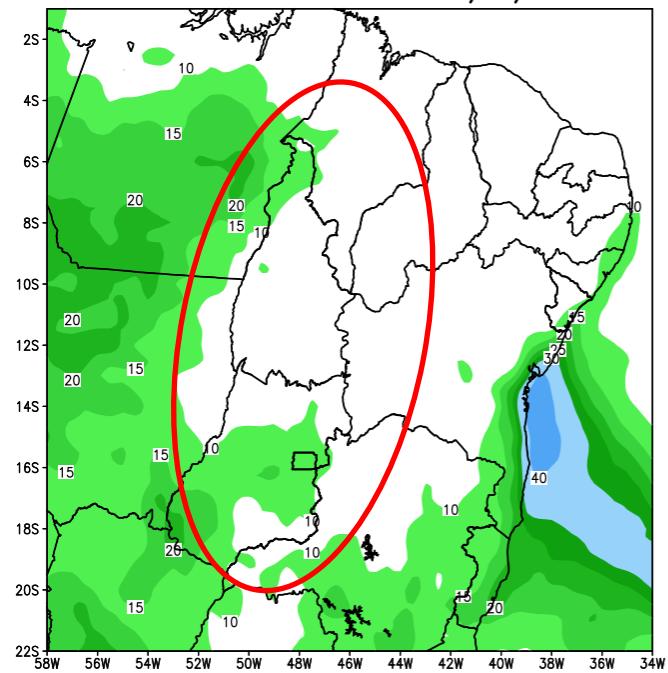
Anomalia de Precipitacao BR_NE (mm)
Periodo: 2025101500 a 2025102200



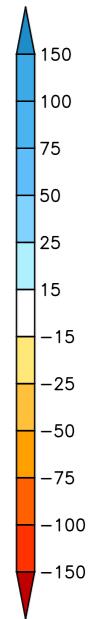
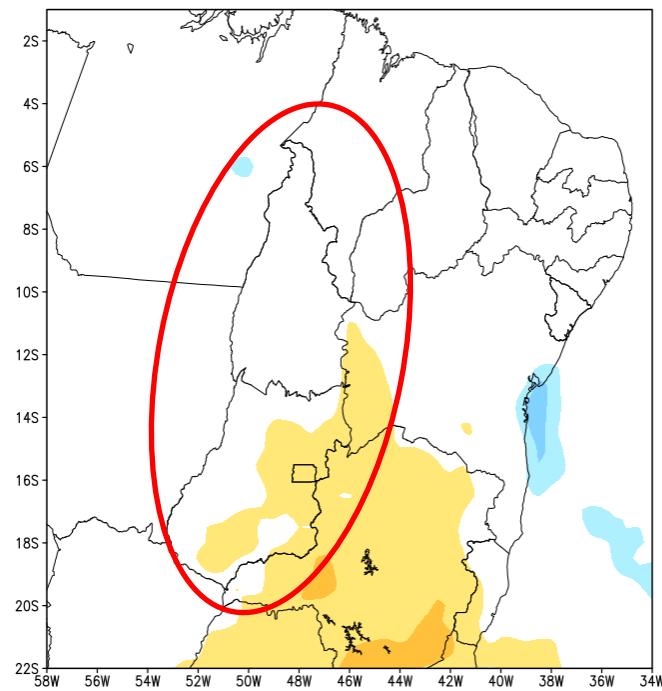
Fonte: GEFS/NOAA

Previsão de chuva - 2a Semana

GEFS / BRASIL_NE
Precipitacao acumulada 2aSem (mm)
Previsao das 00Z dia 15/10/2025

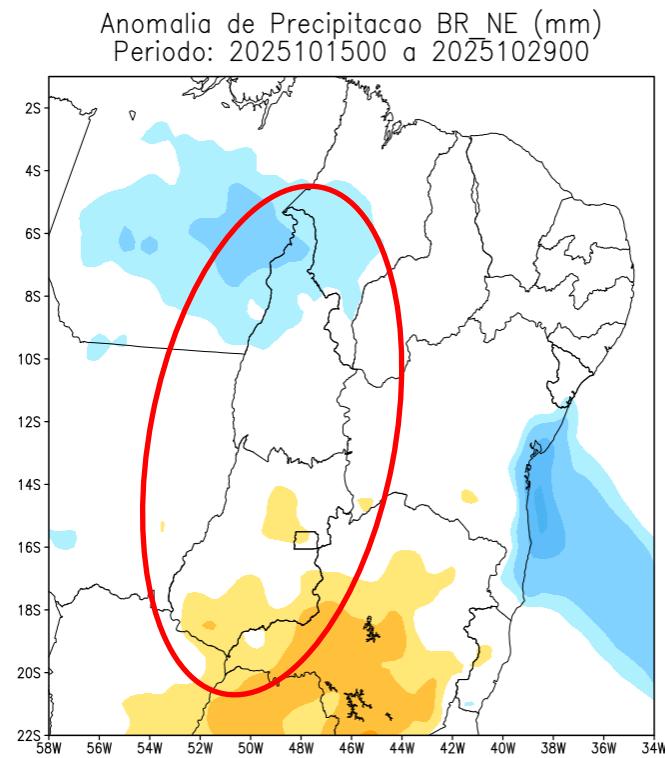
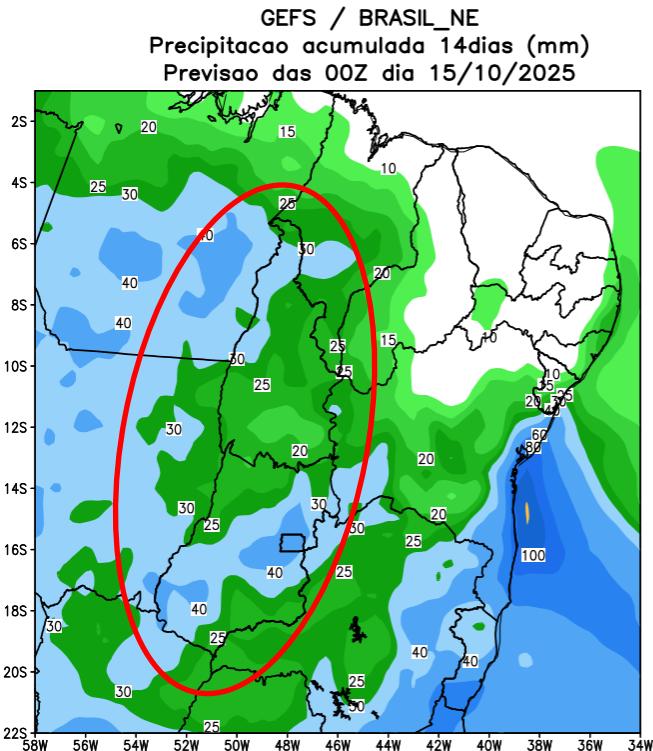


Anomalia de Precipitacao BR_NE (mm)
Periodo: 2025102300 a 2025102900



Fonte: GEFS/NOAA

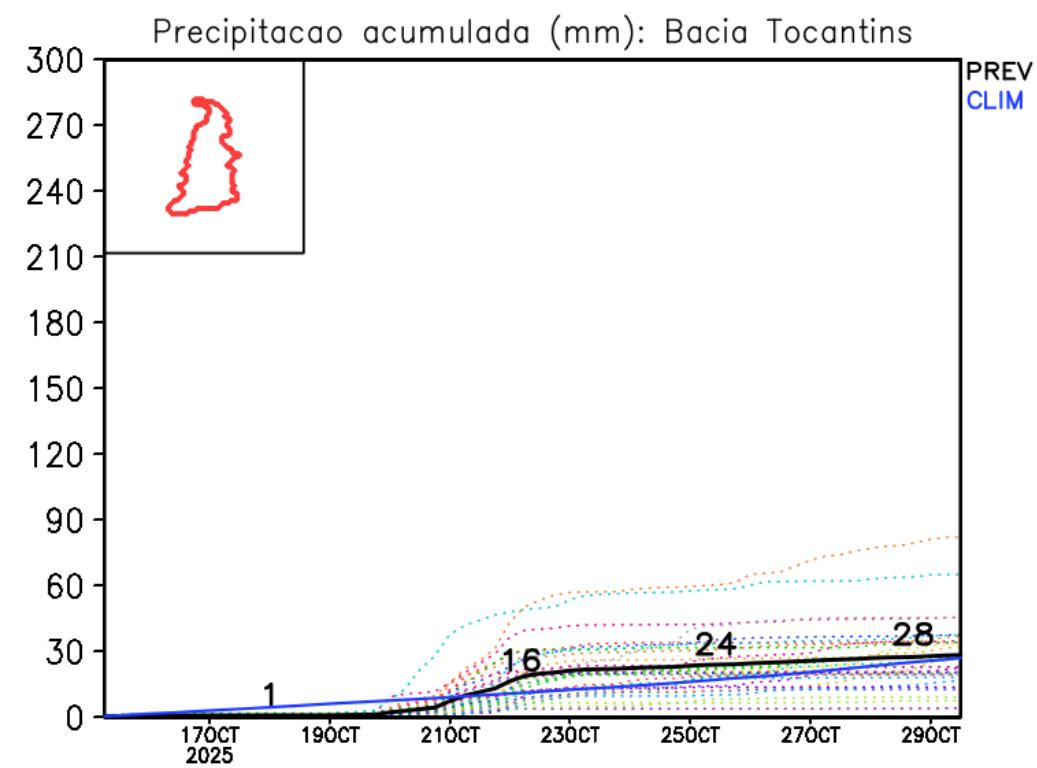
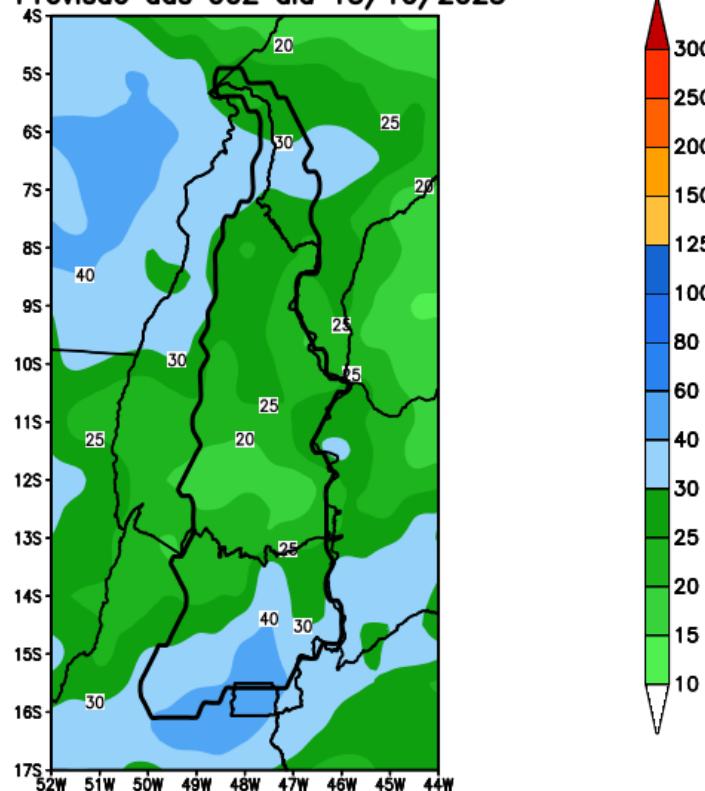
Previsão de chuva - acumulada 2 semanas



Fonte: GEFS/NOAA

Previsão Bacia Rio Tocantins

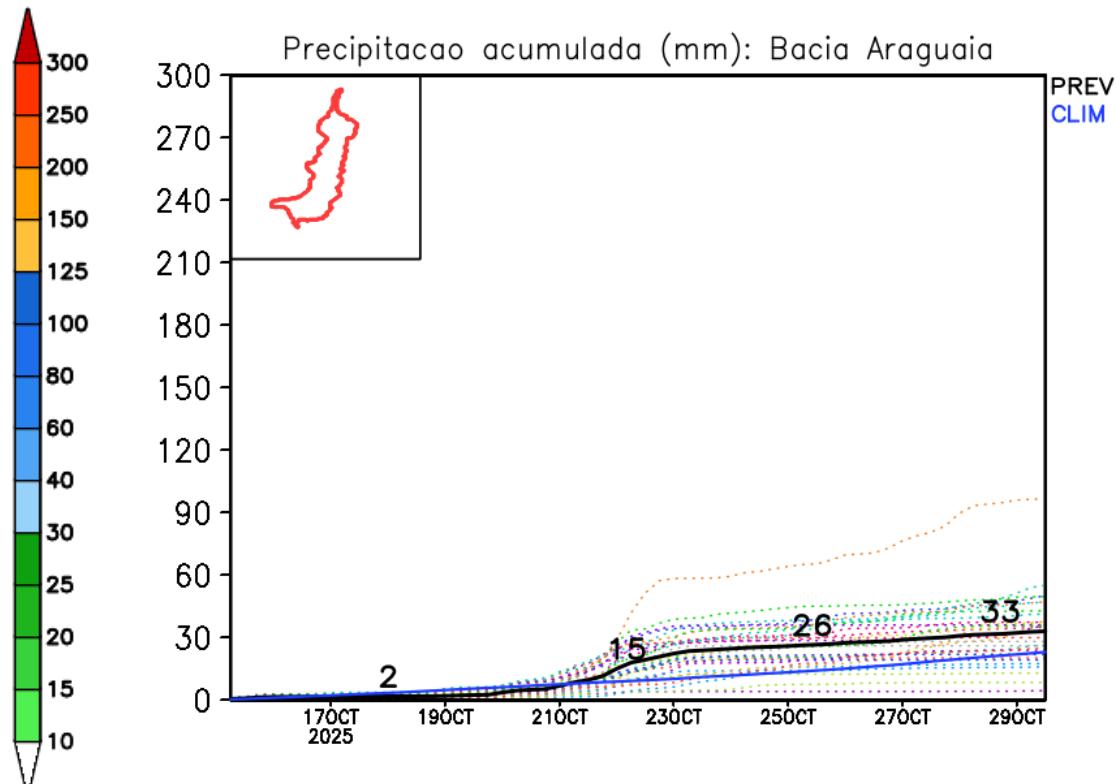
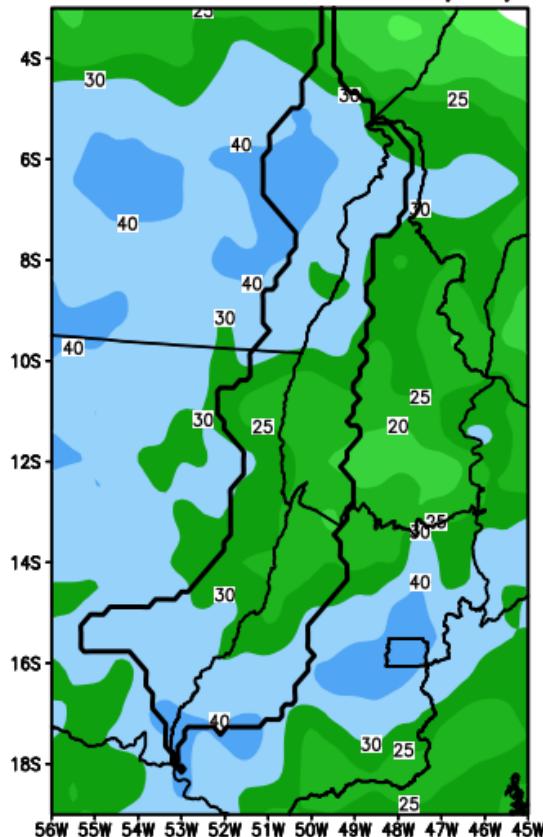
GEFS / Bacia Tocantins
Precipitacao acumulada em 14 dias (mm)
Previsao das 00Z dia 15/10/2025



Fonte: GEFS/NOAA

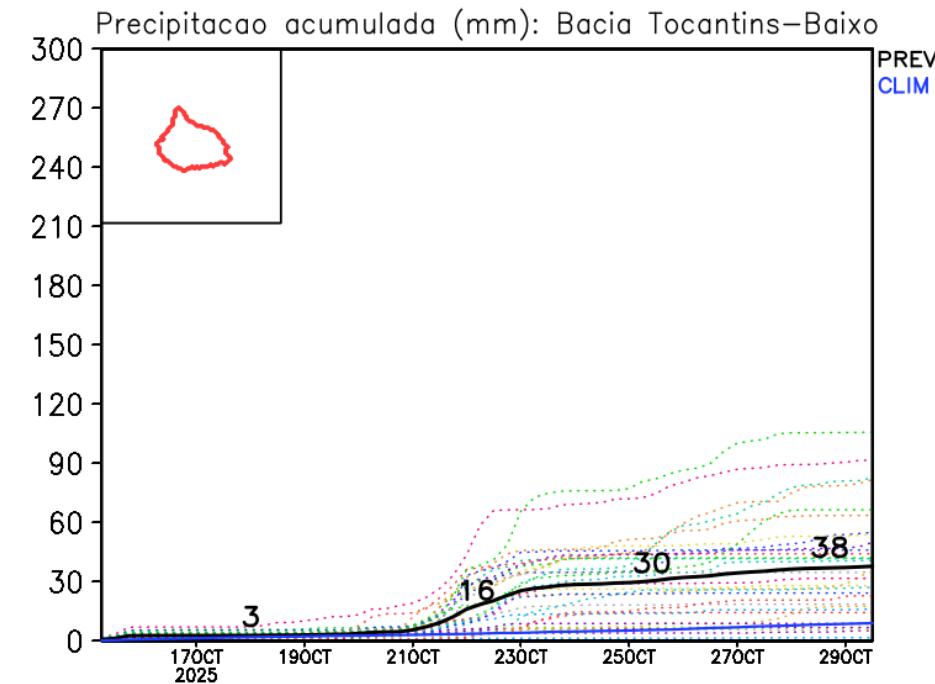
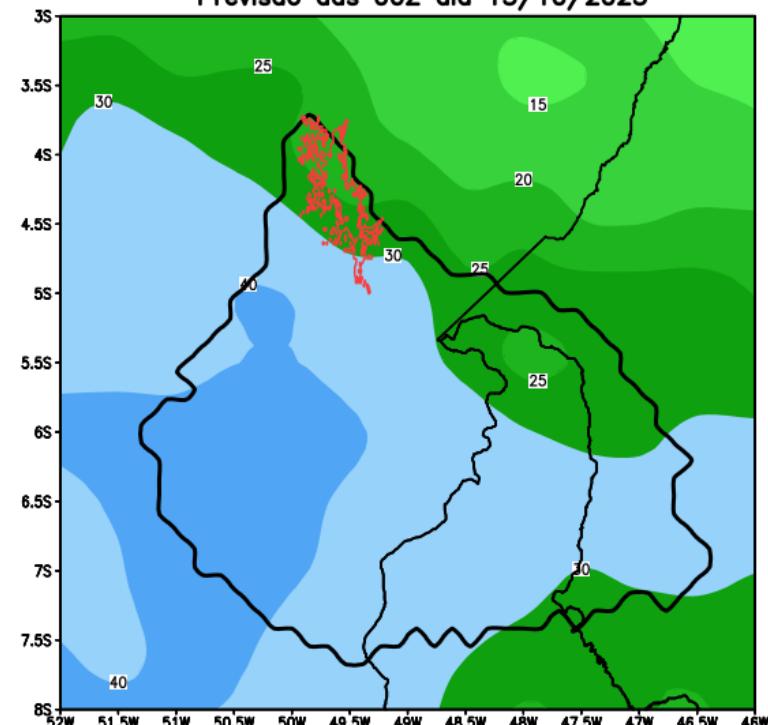
Previsão Bacia Rio Araguaia

GEFS / Bacia do Rio Araguaia
Precipitacao acumulada em 14 dias (mm)
Previsao das 00Z dia 15/10/2025



Previsão Bacia Tocantins (Baixo)

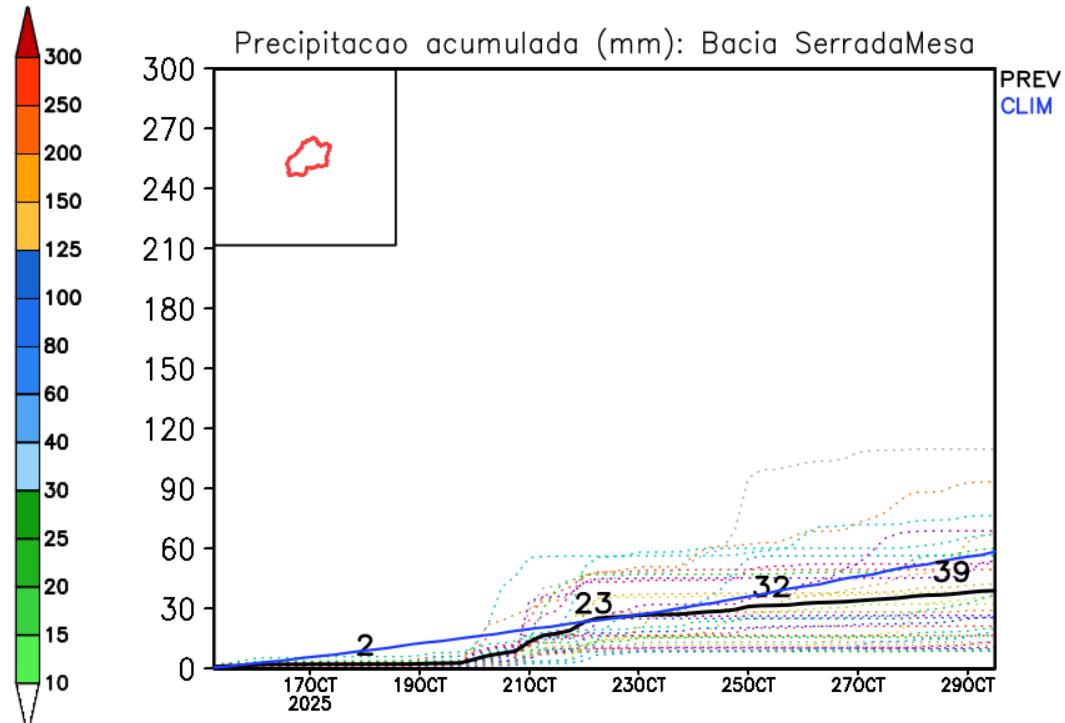
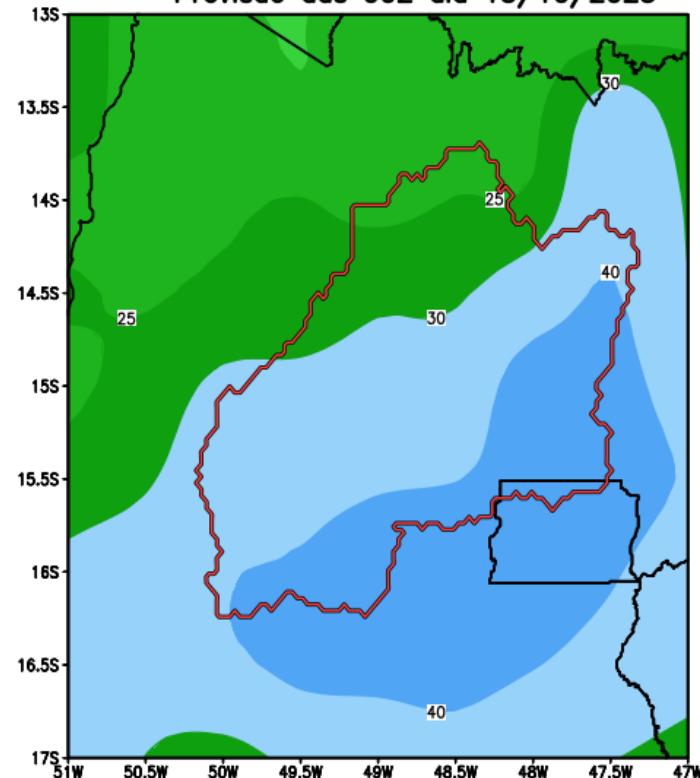
GEFS / Bacia Baixo Tocantins
Precipitacao acumulada em 14 dias (mm)
Previsao das 00Z dia 15/10/2025



Fonte: GEFS/NOAA

Previsão Bacia Serra da Mesa

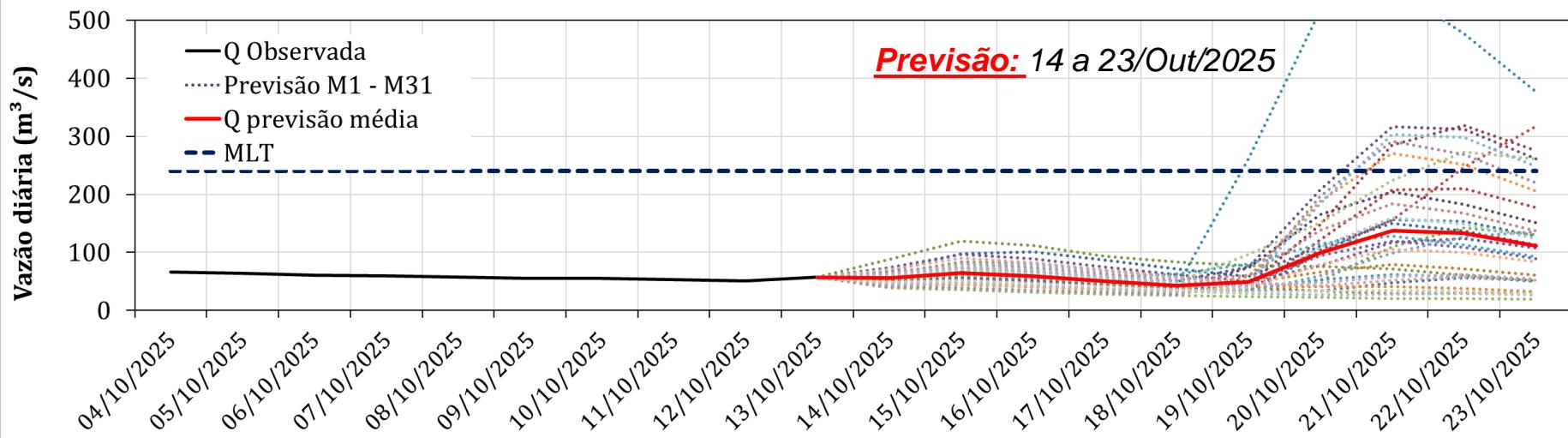
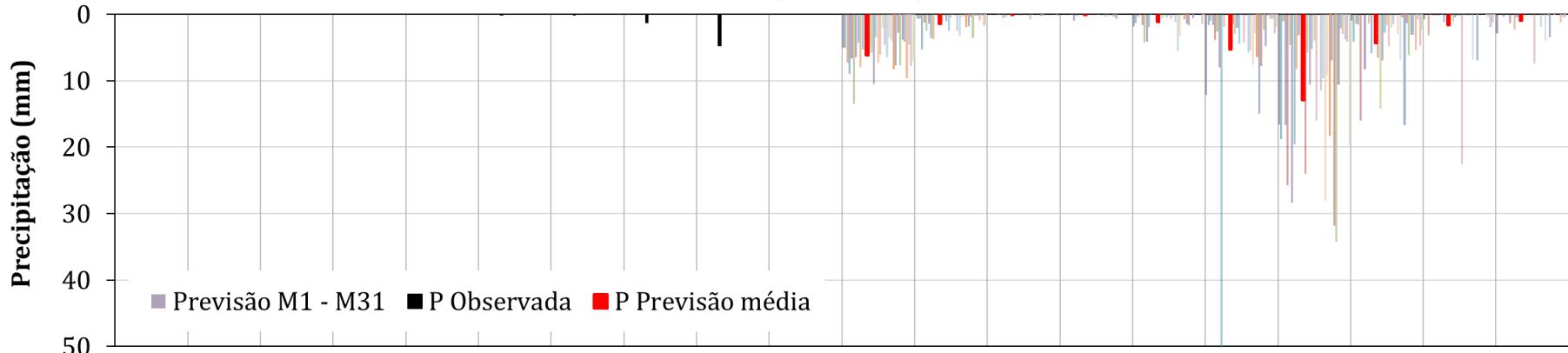
GEFS / Bacia Serra da Mesa
Precipitacao acumulada em 14 dias (mm)
Previsao das 00Z dia 15/10/2025



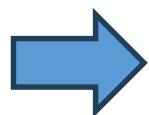
Fonte: GEFS/NOAA

Serra da Mesa: Previsão de Vazão (modelo hidrológico PDM-CEMADEN)

Vazão Natural e Precipitação Diárias para Serra da Mesa
04 a 23/Outubro/2025



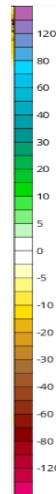
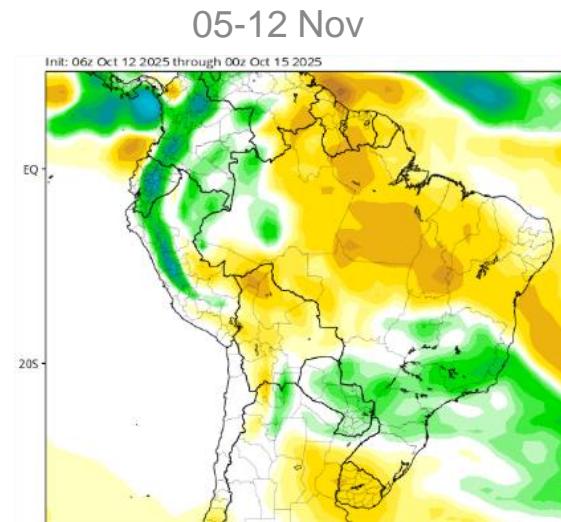
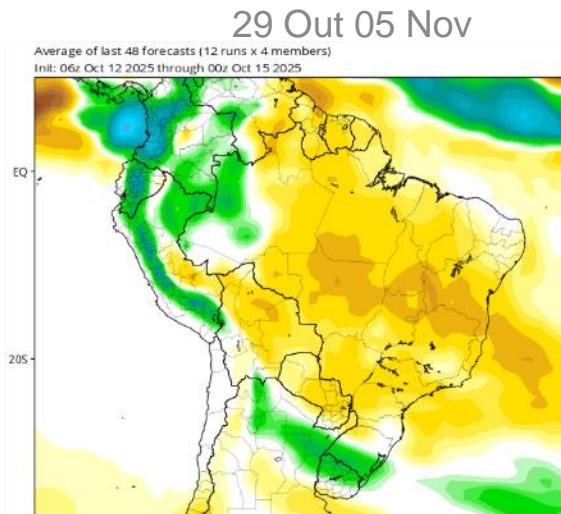
**Previsão média para
os próximos 10 dias: 80 m³/s**



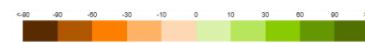
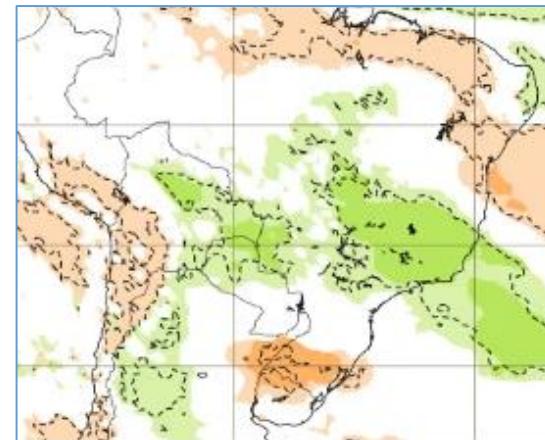
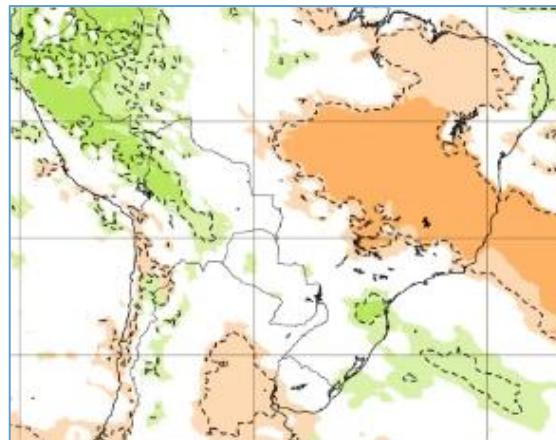
33% da MLT Outubro

Anomalia de Chuva 3a e 4a semanas

CFS/NOAA



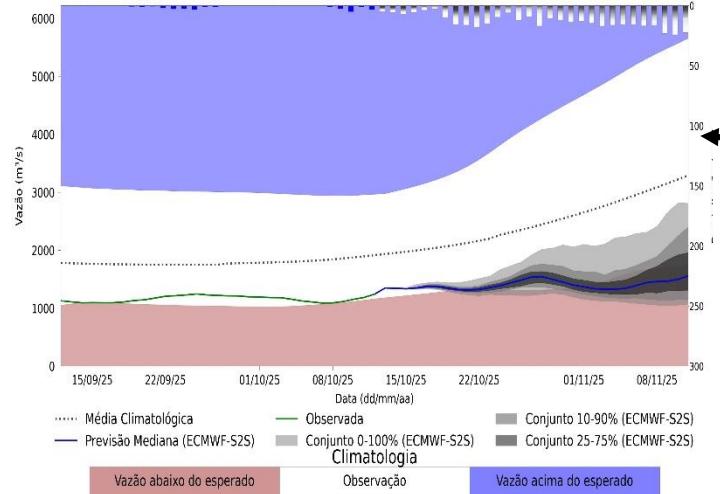
ECMWF



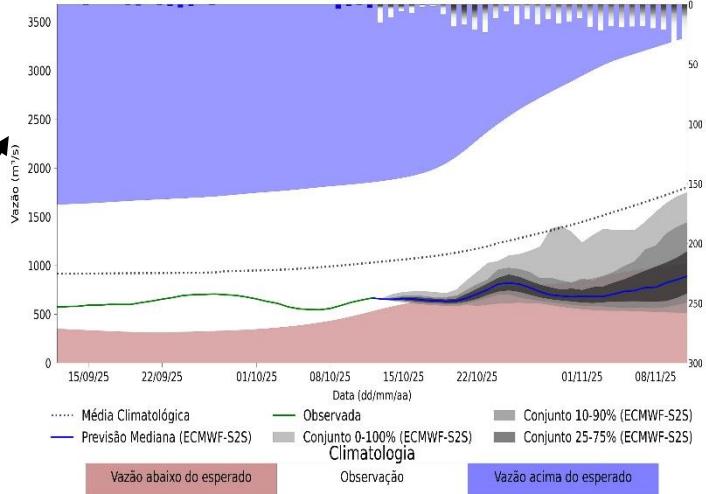
Previsão de vazão natural na Bacia Rio Tocantins-Araguaia

Previsão: 12/10/2025 a 11/11/2025

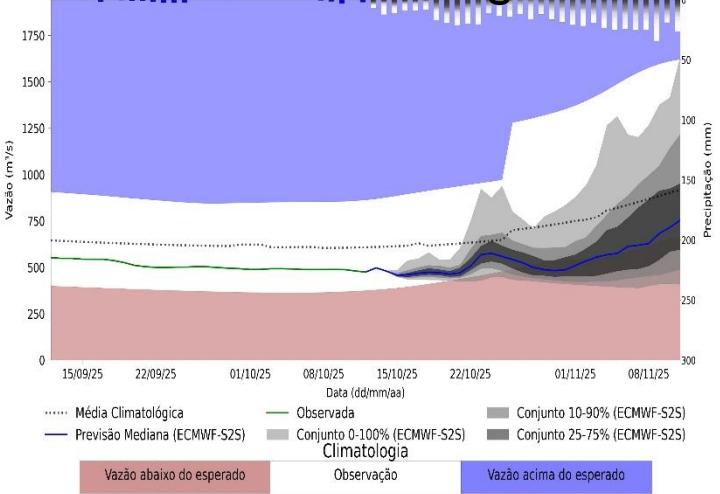
UHE Tucuruí



UHE Estreito

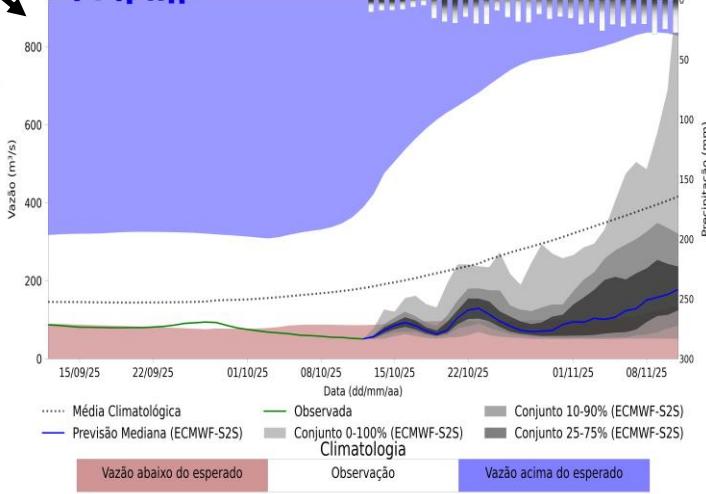


São Felix do Araguaia - MT

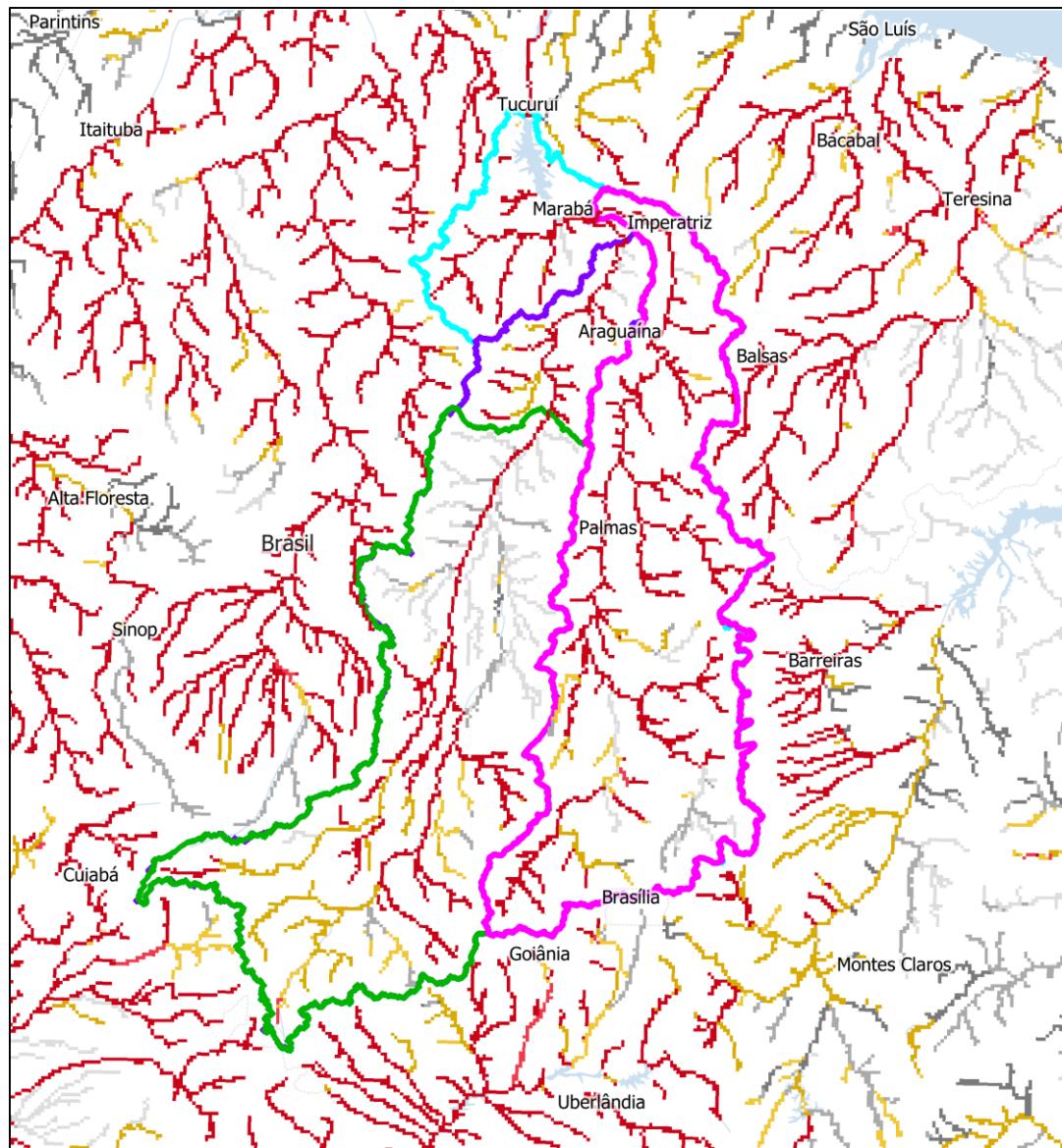


Fonte: Meteorologia (INMET/MERGE); Vazão (ANA/ONS)
MLT: 1993-2024
Previsão Meteorológica: ECMWF-S2S

UHE Serra da Mesa



Previsão Sub-sazonal (45 dias) para a Bacia Rio Tocantins-Araguaia (Sistema Global de Previsão de Vazão - GloFAS)



Previsão: 14/10/2025 –

- Bacia Tocantins
- Bacia Conceição do Araguaia
- Bacia Araguatins
- Bacia UHE Tucurui

Categoria de anomalia para as vazões (percentil)

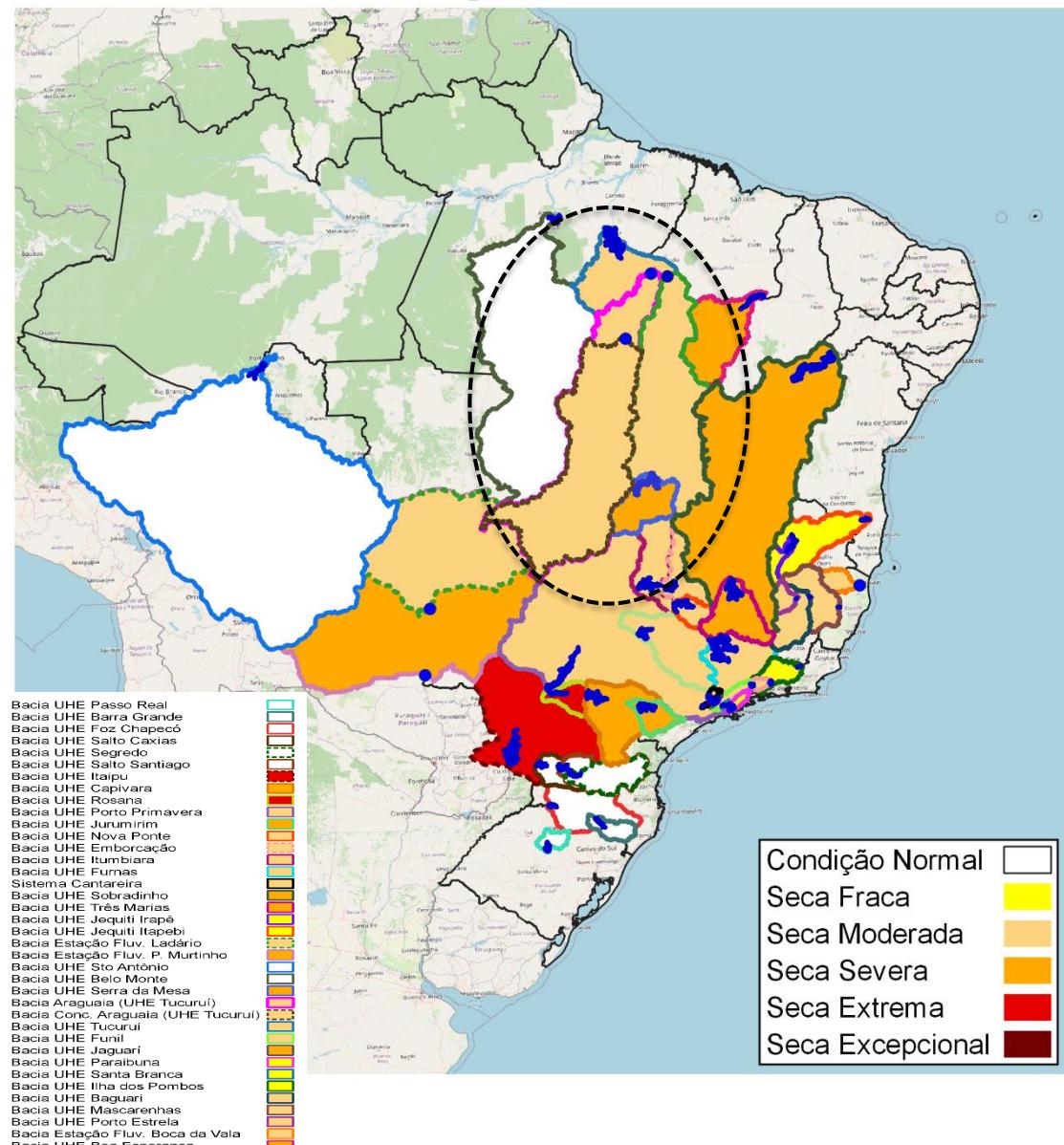
- Muito abaixo (1-10)
- Abaixo (10-25)
- Próximo da média (25-75)
- Acima (75-90)
- Muito acima (90-100)

Fonte: Previsão Meteorológica: ECMWF

Previsão de vazão: Lisflood/GloFAS Forecast
<https://www.globalfloods.eu/glofas-forecasting/>

Índice Bivariado de Seca (Precipitação-Cota/Vazão) - TSI

Previsão para 30 dias



Estabilidade:

- Tucuruí (Moderada)
- Serra da Mesa (Severa)
- Conc. Araguaia (Moderada)
- Descarreto (Moderada)

Intensificação da seca:

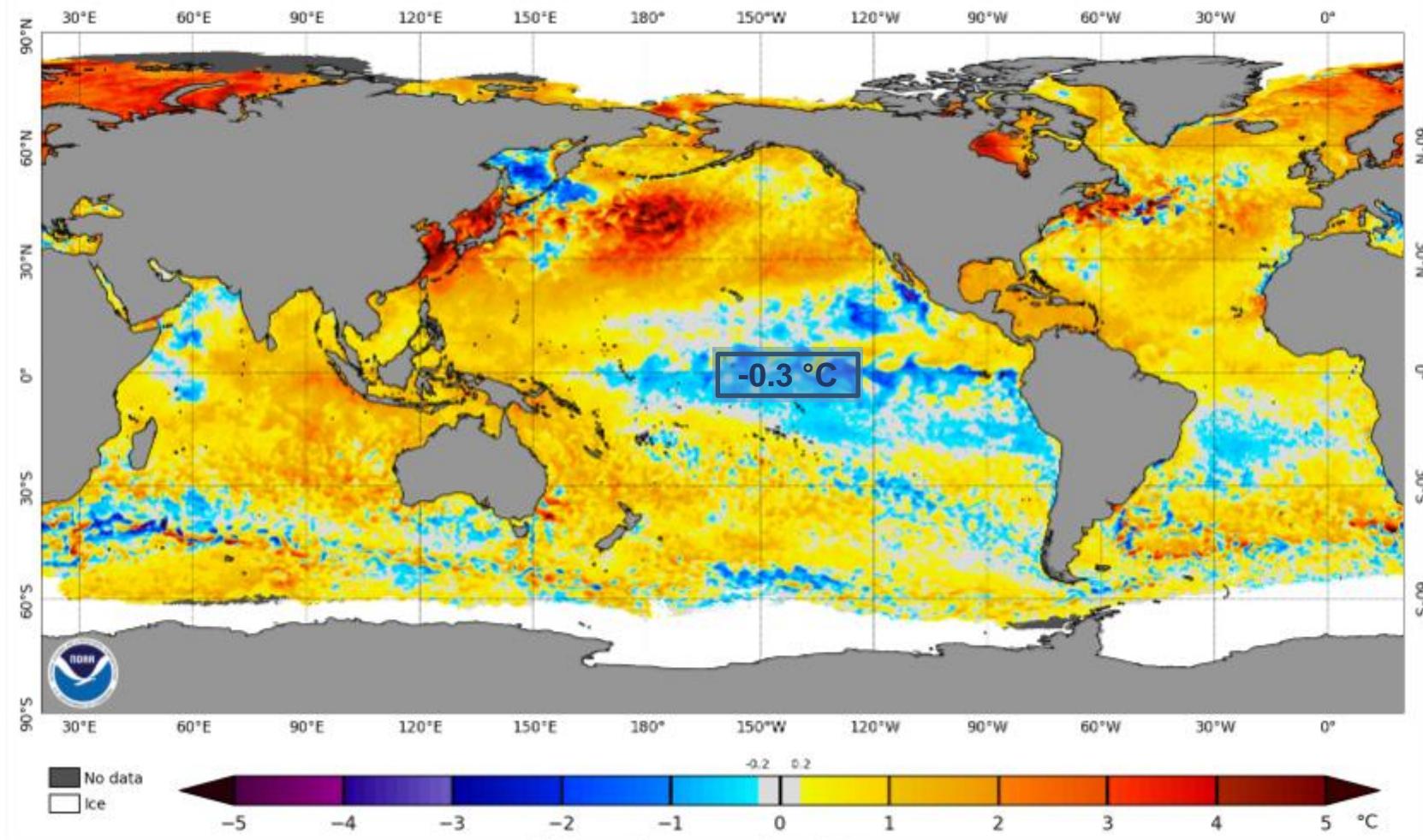
- Araguatins (Moderada)

Fonte: CEMADEN/MCTI

Previsão de Precipitação: Climate Forecast System (CFS)

Status Atual: La Niña

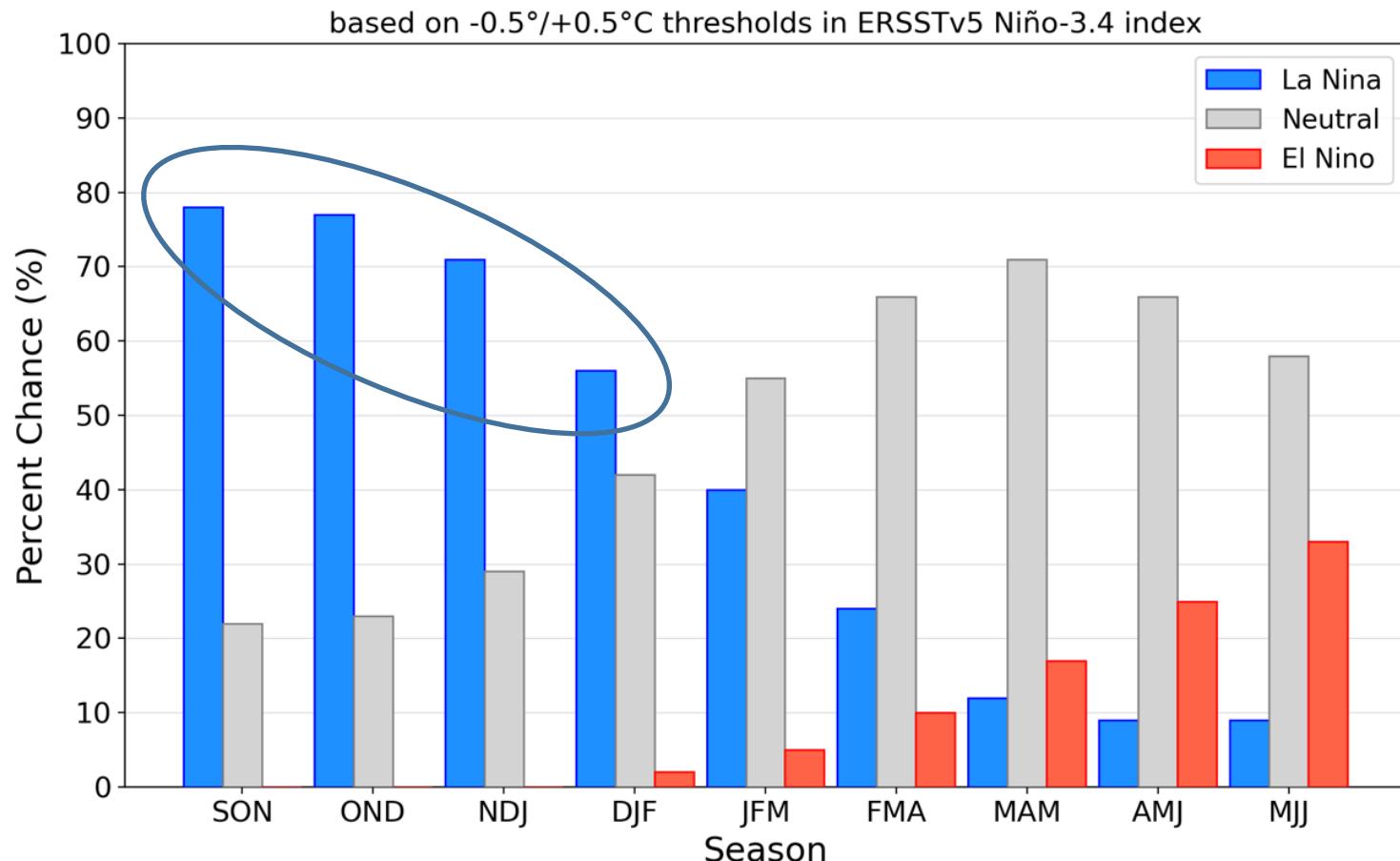
NOAA Coral Reef Watch Daily 5km SST Anomalies (v3.1) 12 Oct 2025



FONTE: NOAA

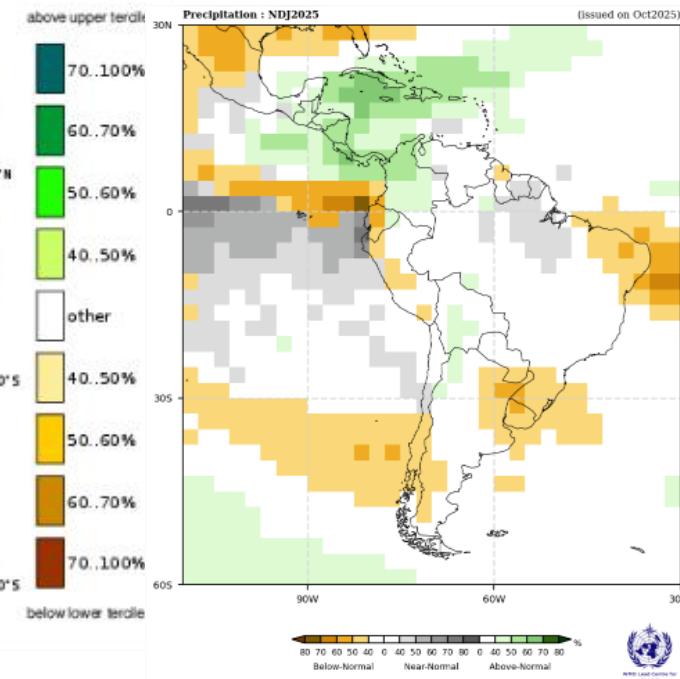
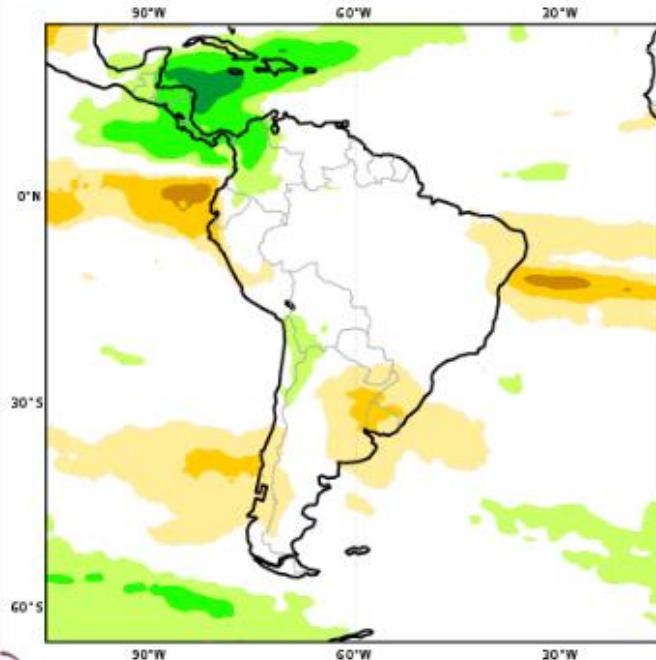
Previsão do “ENSO”

Official NOAA CPC ENSO Probabilities (issued October 2025)



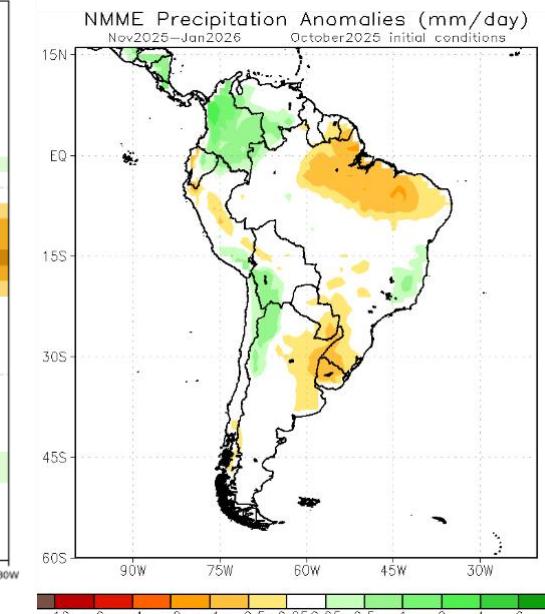
Previsão Sazonal de Chuva Multi-Modelo

Novembro-Dezembro-Janeiro



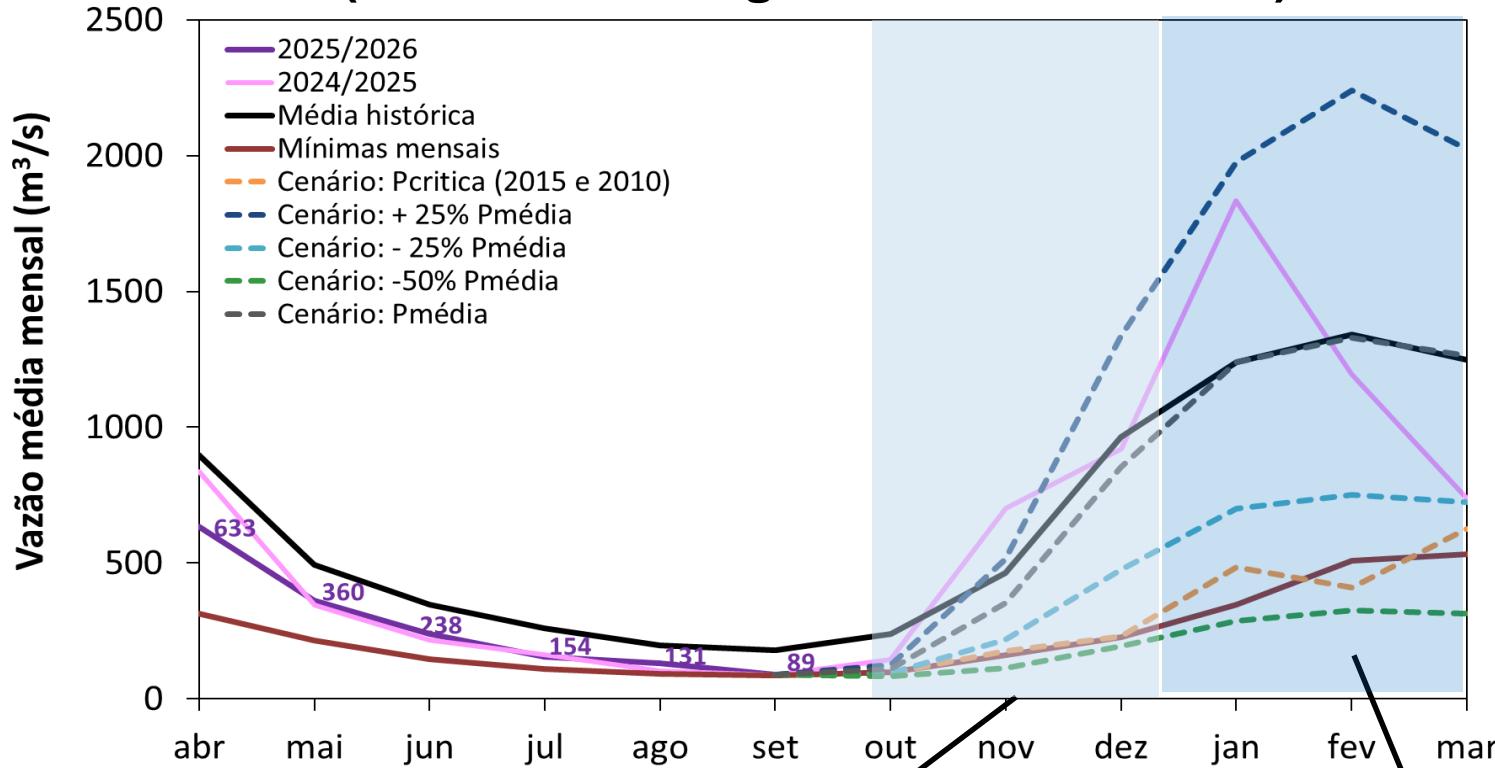
Modelos "Europeus"

Modelos da WMO



Modelos Norte
Americanos

Serra da Mesa: Projeção de Vazão (modelo hidrológico PDM-CEMADEN)



Out-Dez (Meses Chuvosos)

MLT: 556 m^3/s

Vazão	% MLT
659 m^3/s	119%
439 m^3/s	79%
263 m^3/s	47%
2015 → 167 m^3/s	30%

Jan-Mar (Meses Chuvosos)

MLT: 1275 m^3/s

Vazão	% MLT
2080 m^3/s	163%
1277 m^3/s	100%
725 m^3/s	57%
2010 → 507 m^3/s	40%