

Monitoramento e Previsões para a Bacia do rio Araguaia-Tocantins

MAIO 2025

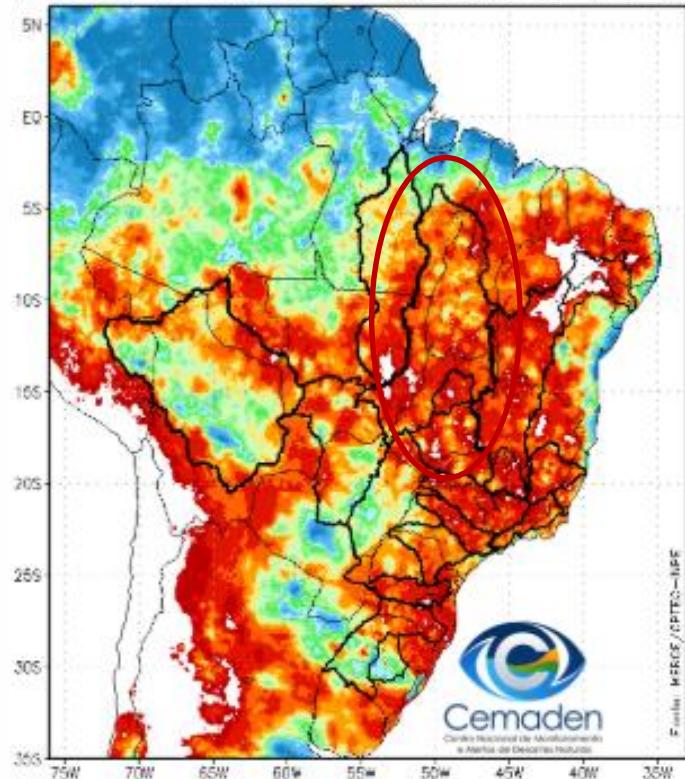


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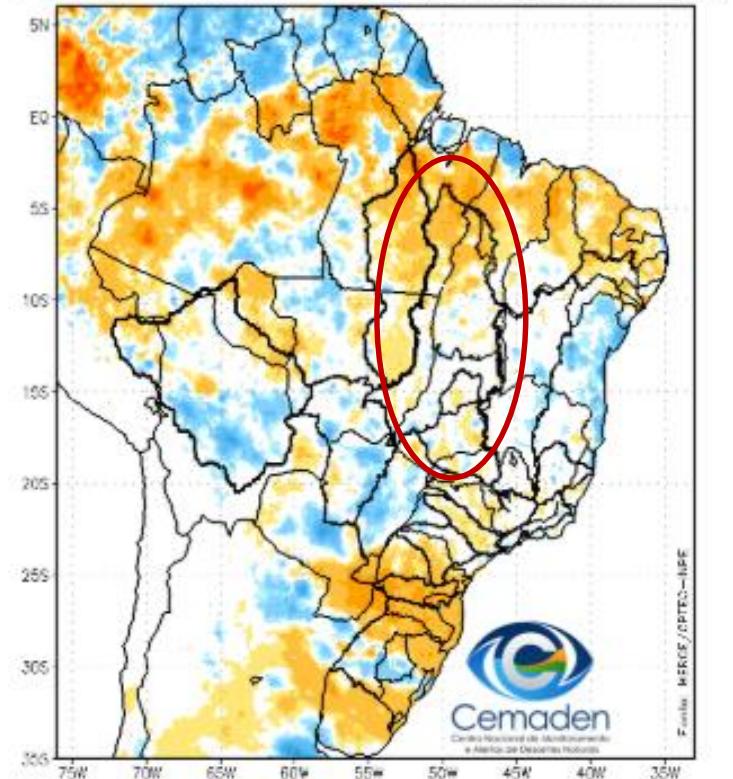


Precipitação acumulada nos últimos 30 dias

Precipitação Acumulada (mm) A.S.
Período: 19/04/2025 a 19/05/2025 (30 dias)



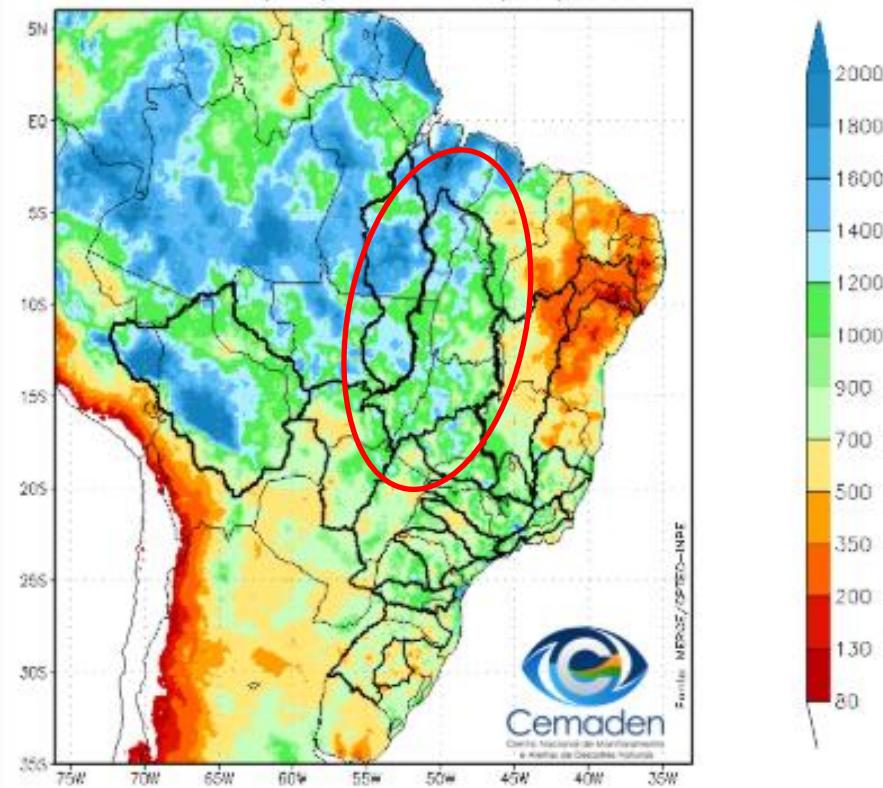
Anomalia de Precipitação (mm) A.S.
Período: 19/04/2025 a 19/05/2025 (30 dias)



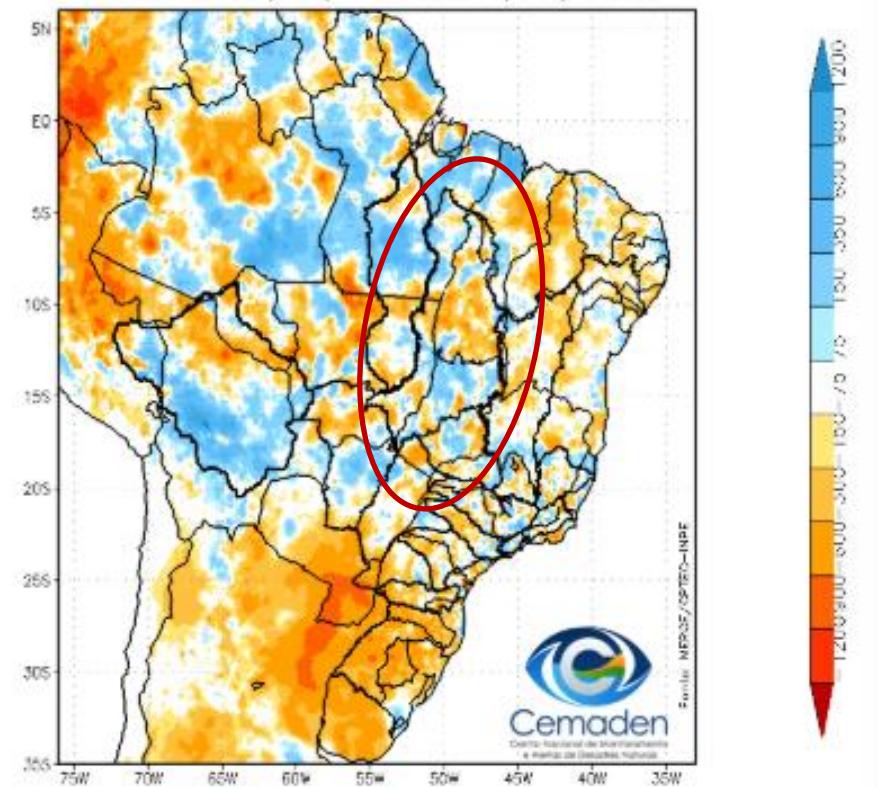
Fonte dos dados: Merge/INPE

Precipitação acumulada no Ano Hidrológico

Precipitação Acumulada (mm) Ano Hidrológico
Período: 01/10/2024 a 19/05/2025



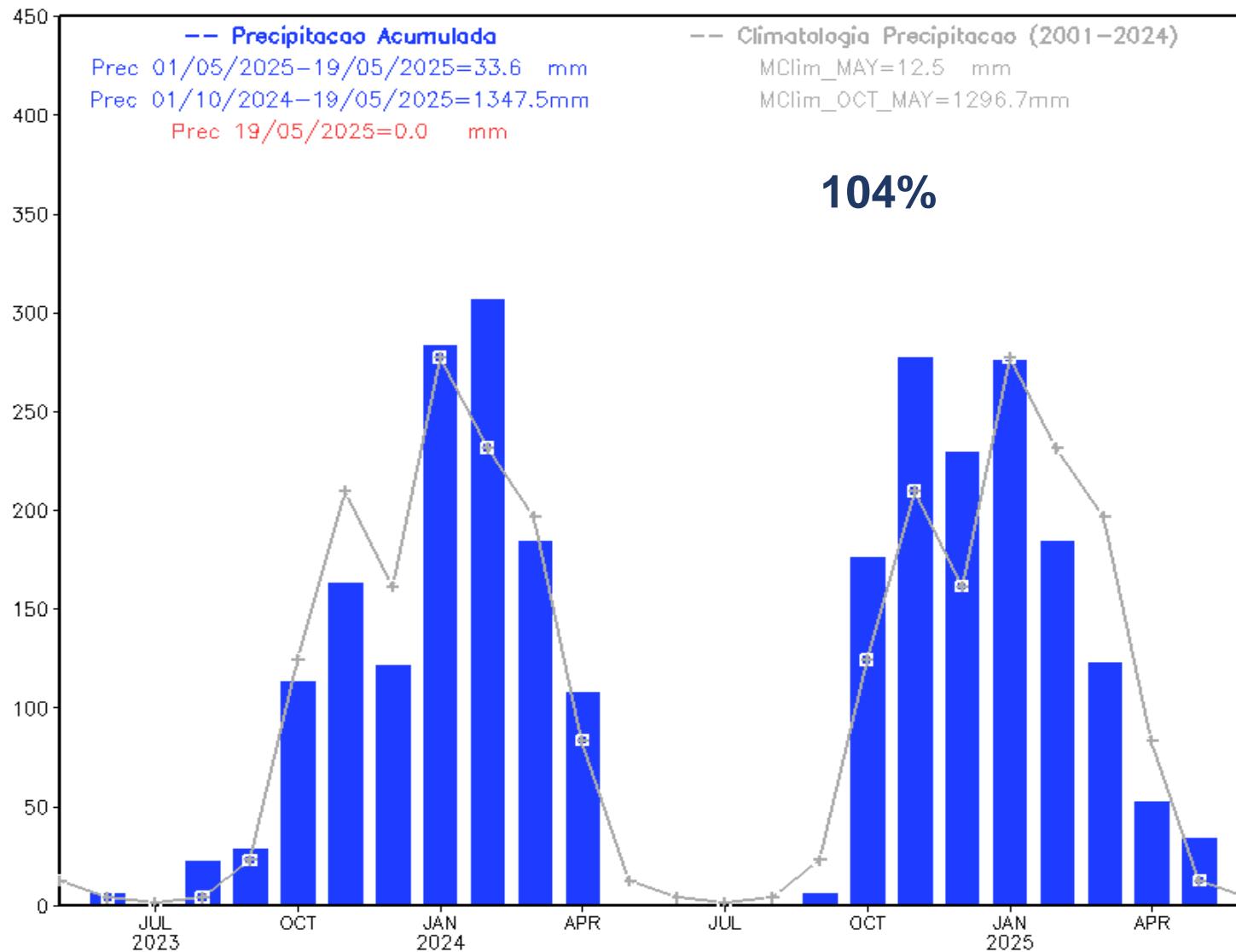
Anomalia de Precipitação (mm) Ano Hidrológico
Período: 01/10/2024 a 19/05/2025



Fonte dos dados: Merge/INPE

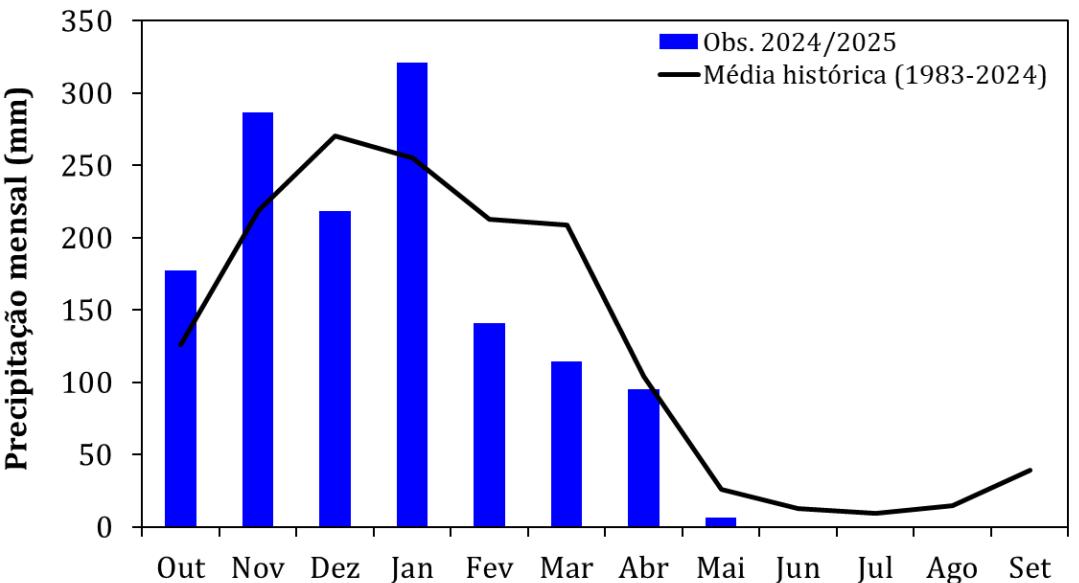
Precipitação Acumulada nos últimos Dois Anos

Precipitacao Bacia do Rio Tocantins desde MAY 2023



Fonte dos dados: Merge/INPE

Monitoramento UHE Serra da Mesa



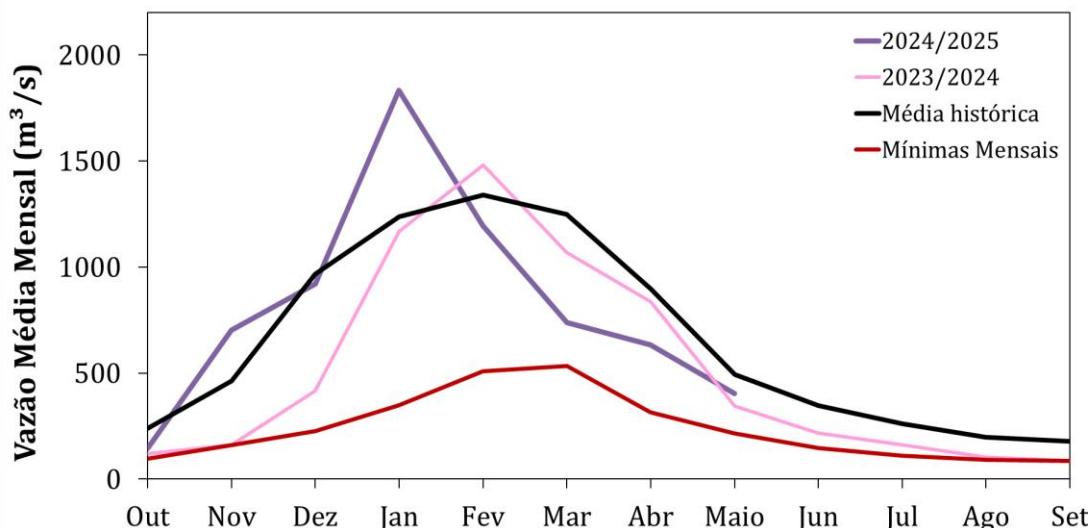
Precipitação

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 – 105 mm
2024: 2 mm (**2% da MLT**)
2025*: 6 mm (**11% da MLT PARCIAL**)

Maio/2025*: 6 mm (**25% da MLT**)

*Até 18/05/2025



Vazão

Estação Chuvosa - Out a Abr – 913 m^3/s
2023/2024: 751 m^3/s (**82% da MLT**)
2024/2025: 881 m^3/s (**97% da MLT**)

Estação Seca - Maio a Set – 295 m^3/s
2024: 183 m^3/s (**62% da MLT**)
2025**: 405 m^3/s (**137% da MLT**)

Maio/25**: 405 m^3/s (**82% da MLT**)
18/Maio/25: 360 m^3/s (**73% da MLT**)

**Até 18/05/2025

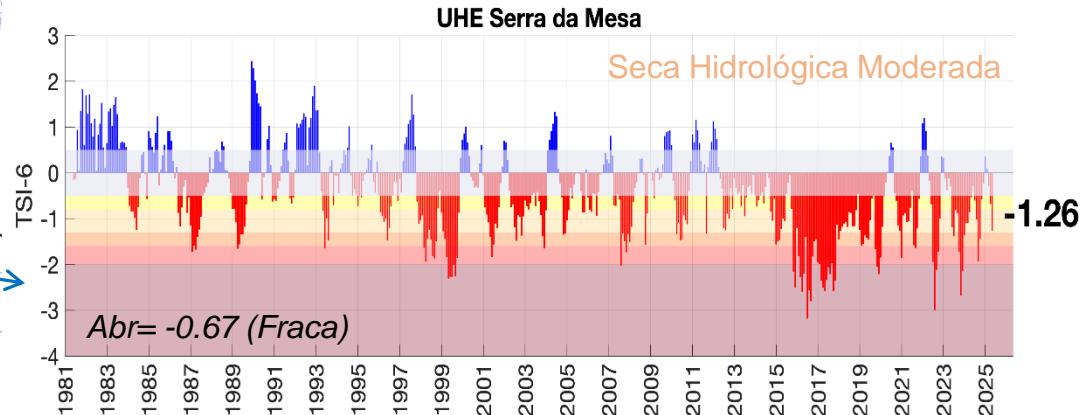
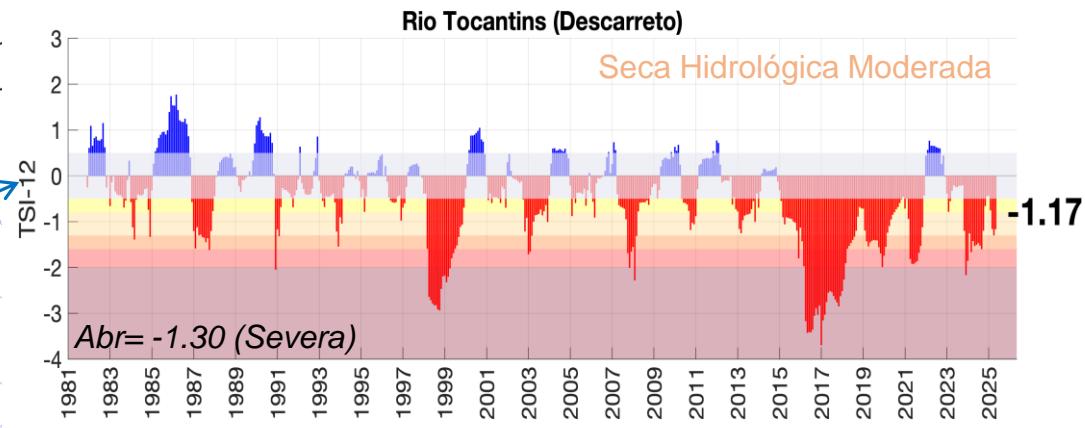
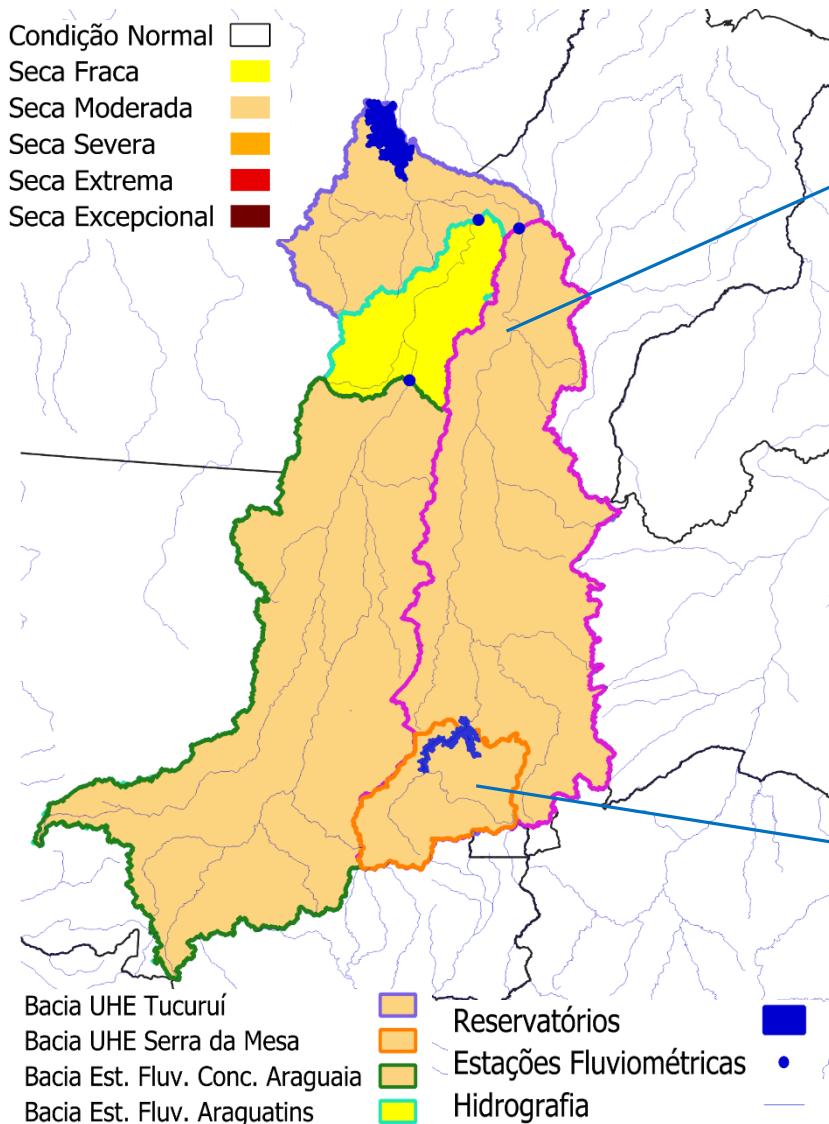
Dados de precipitação: INMET, ANA, CEMADEN

Dados de vazão: ONS e ANA

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

Escala de longo prazo

Maio/2025

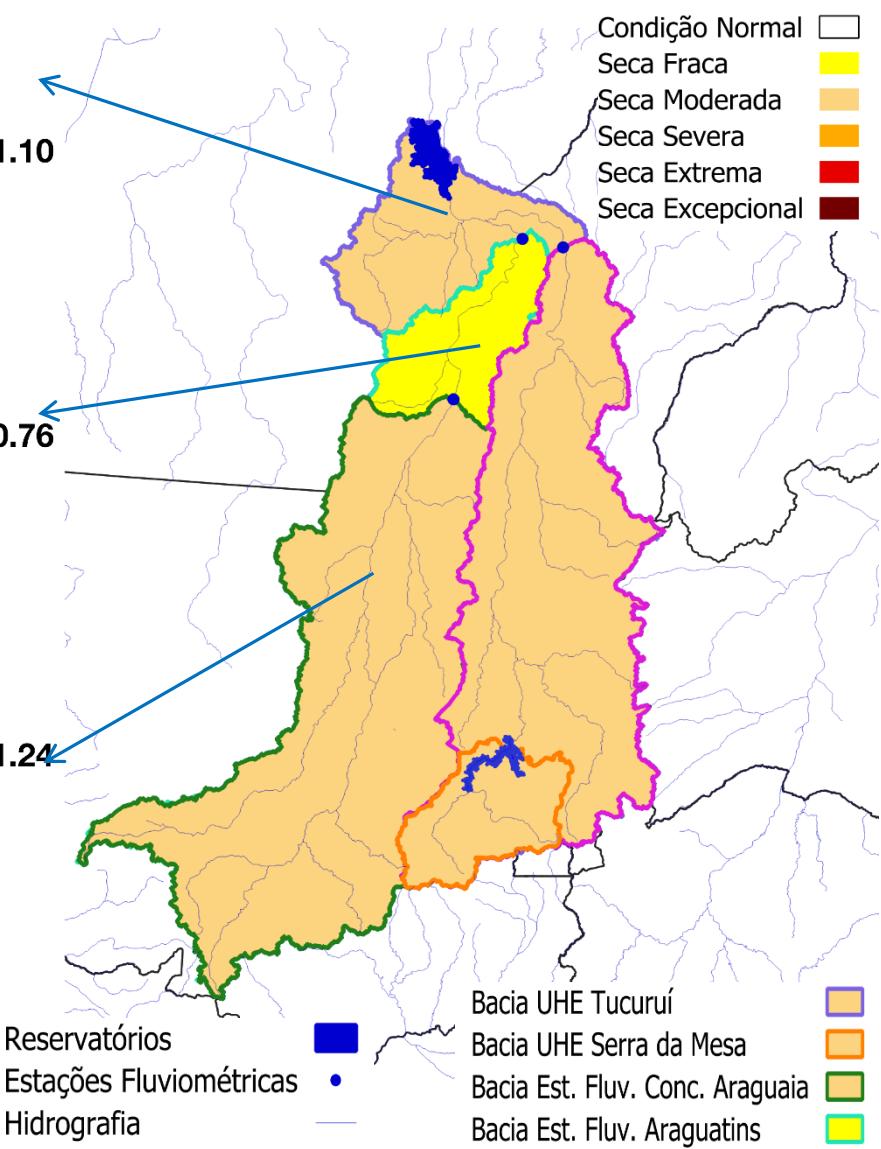
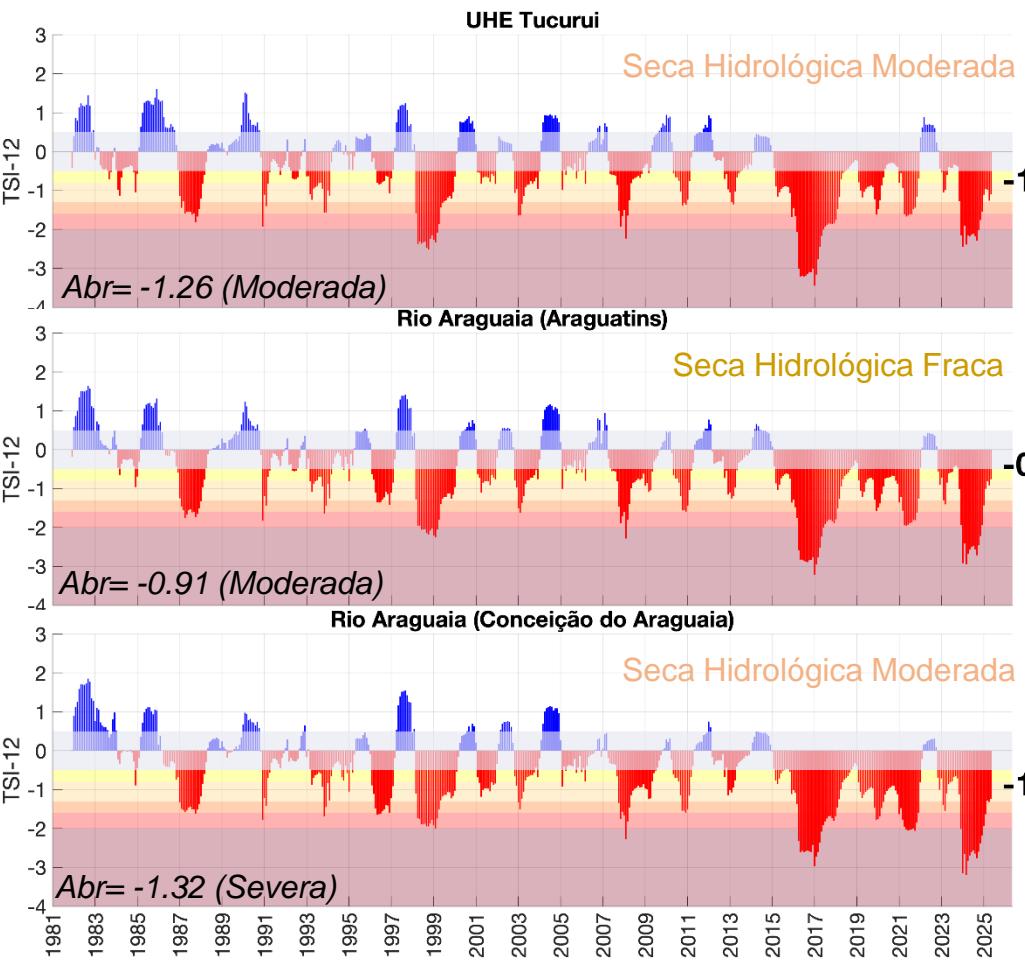


Fonte: CEMADEN
Dados: Precipitação (Cemaden/INMET/CHIRPS) e
Vazão (ONS/ANA) - Jan/1981-Maio/25.

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

Escala de longo prazo

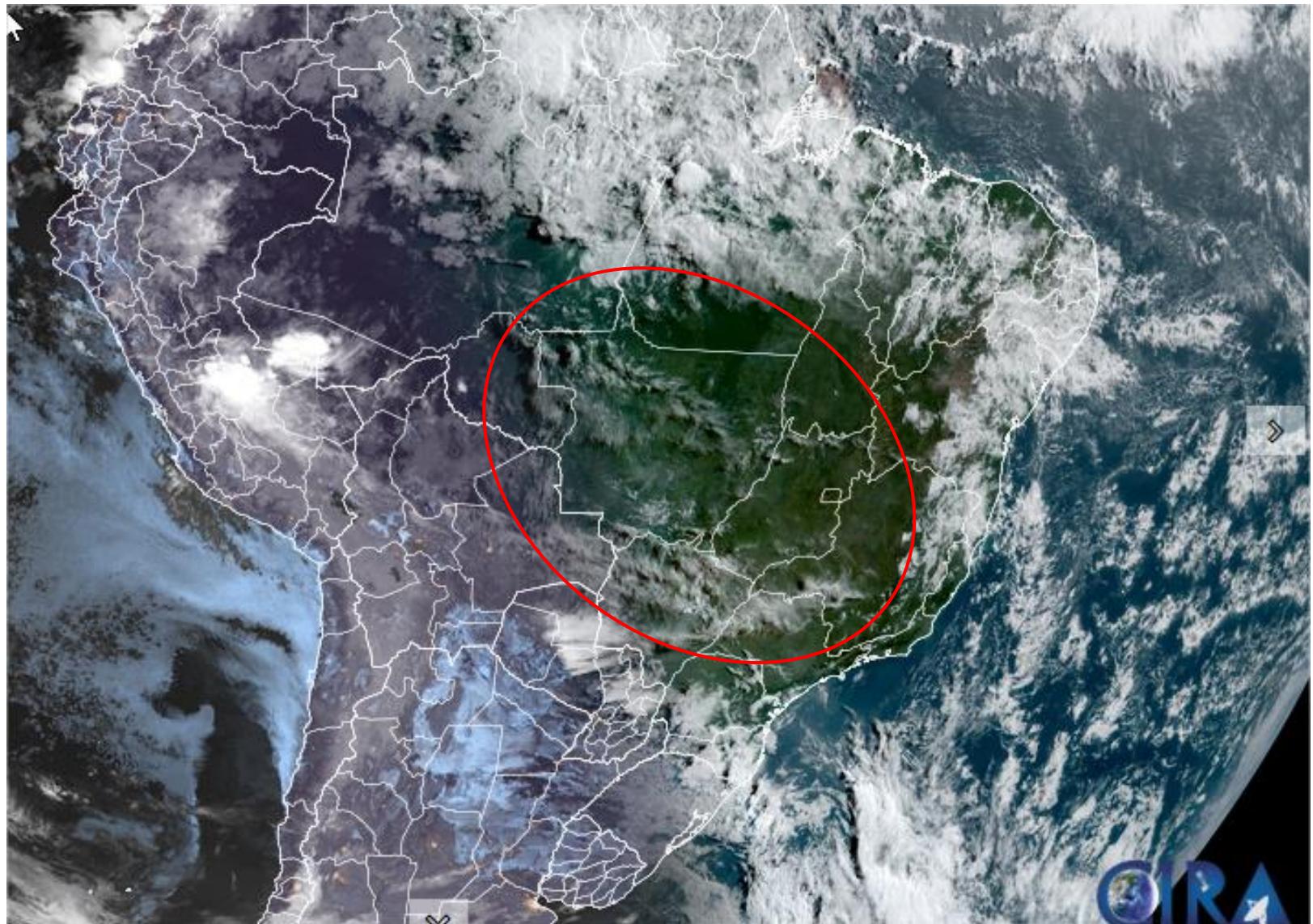
Maio/2025



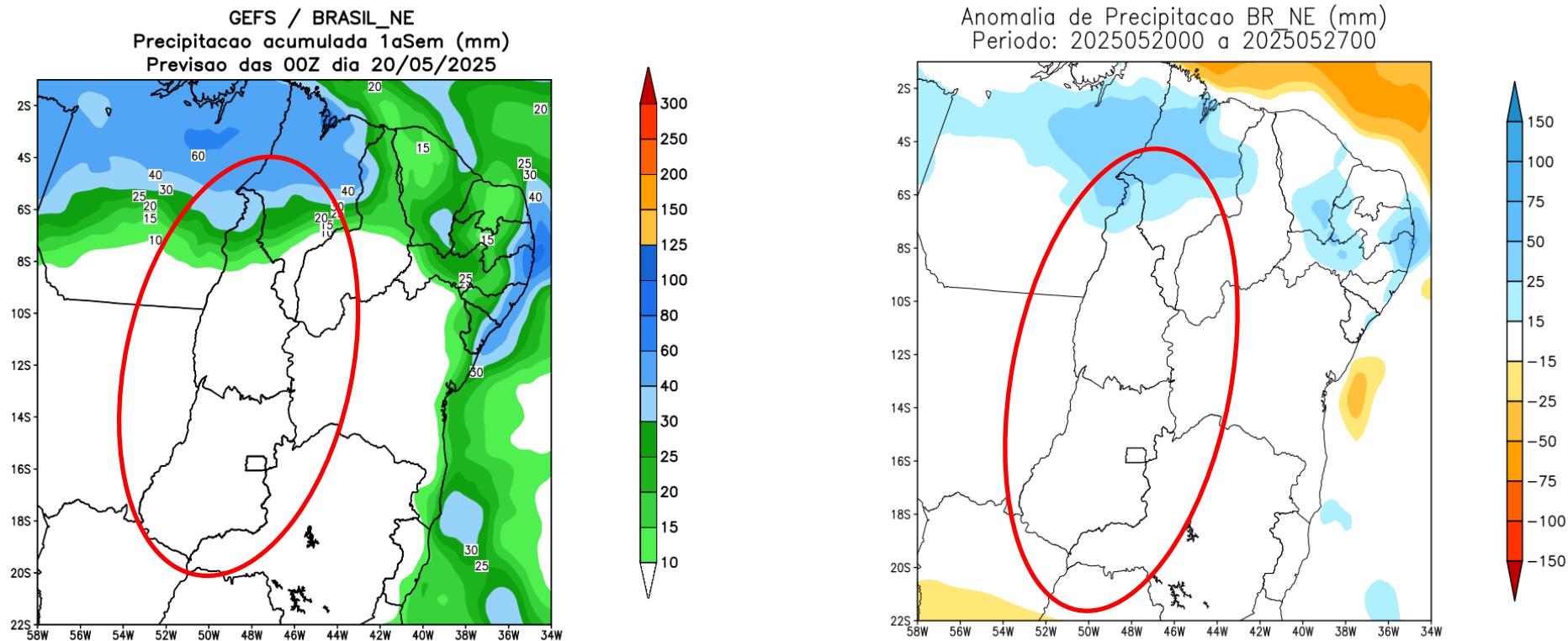
Fonte: CEMADEN

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

Situação meteorológica atual



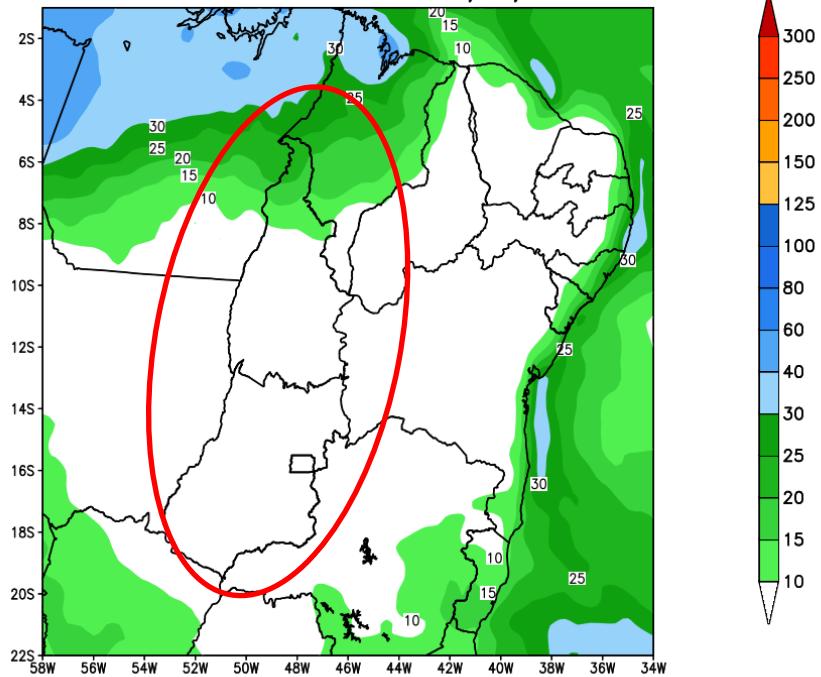
Previsão de chuva - 1a Semana



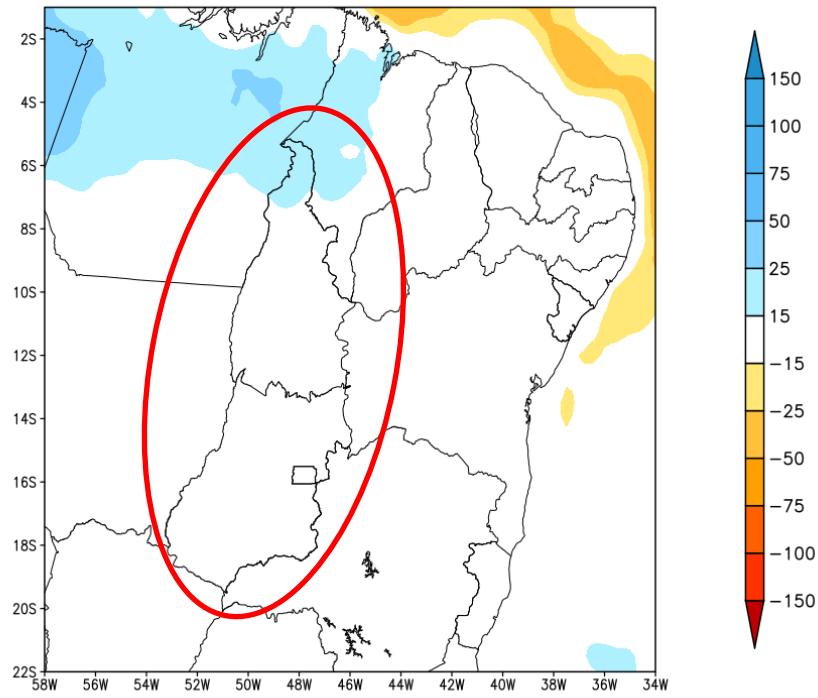
Fonte: GEFS/NOAA

Previsão de chuva - 2a Semana

GEFS / BRASIL_NE
Precipitacao acumulada 2aSem (mm)
Previsao das 00Z dia 20/05/2025

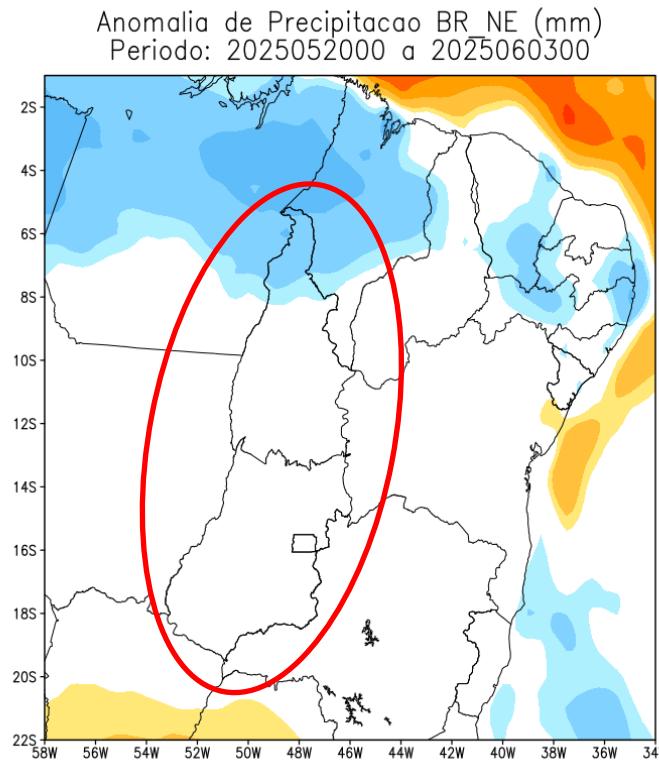
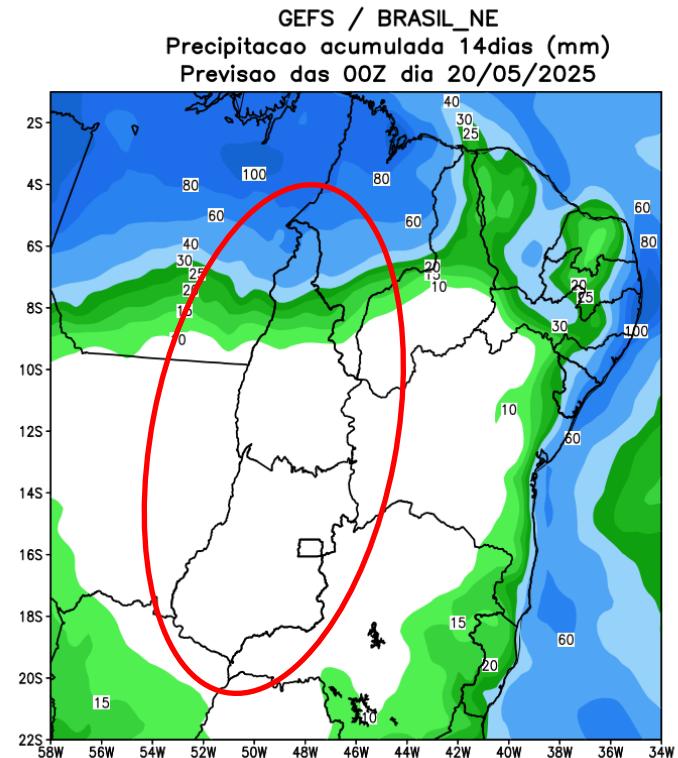


Anomalia de Precipitacao BR_NE (mm)
Periodo: 2025052800 a 2025060300



Fonte: GEFS/NOAA

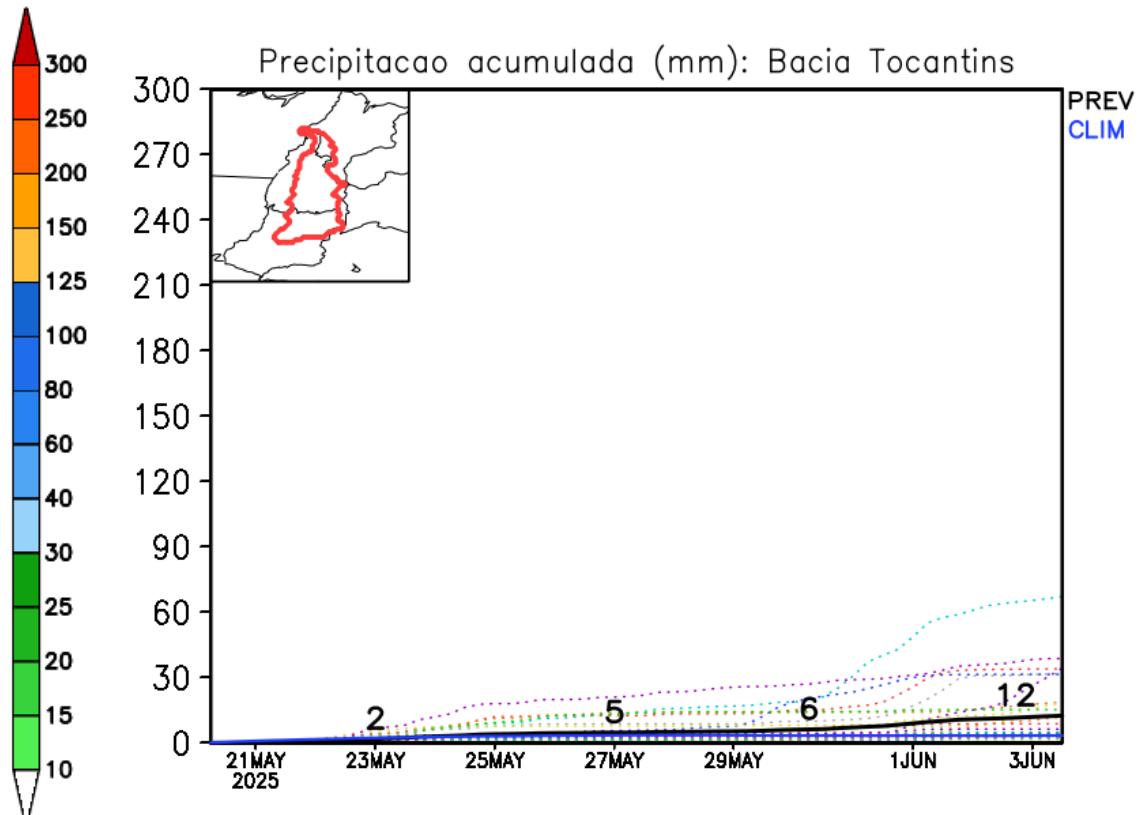
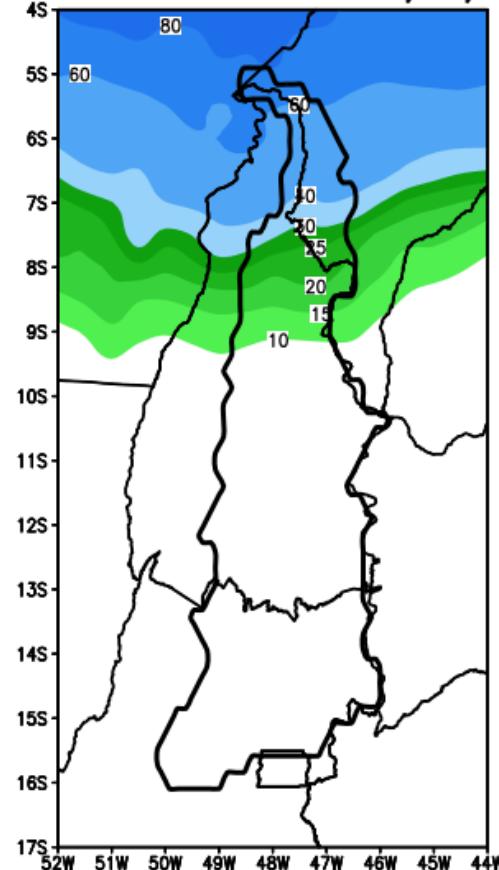
Previsão de chuva - acumulada 2 semanas



Fonte: GEFS/NOAA

Previsão Bacia Rio Tocantins

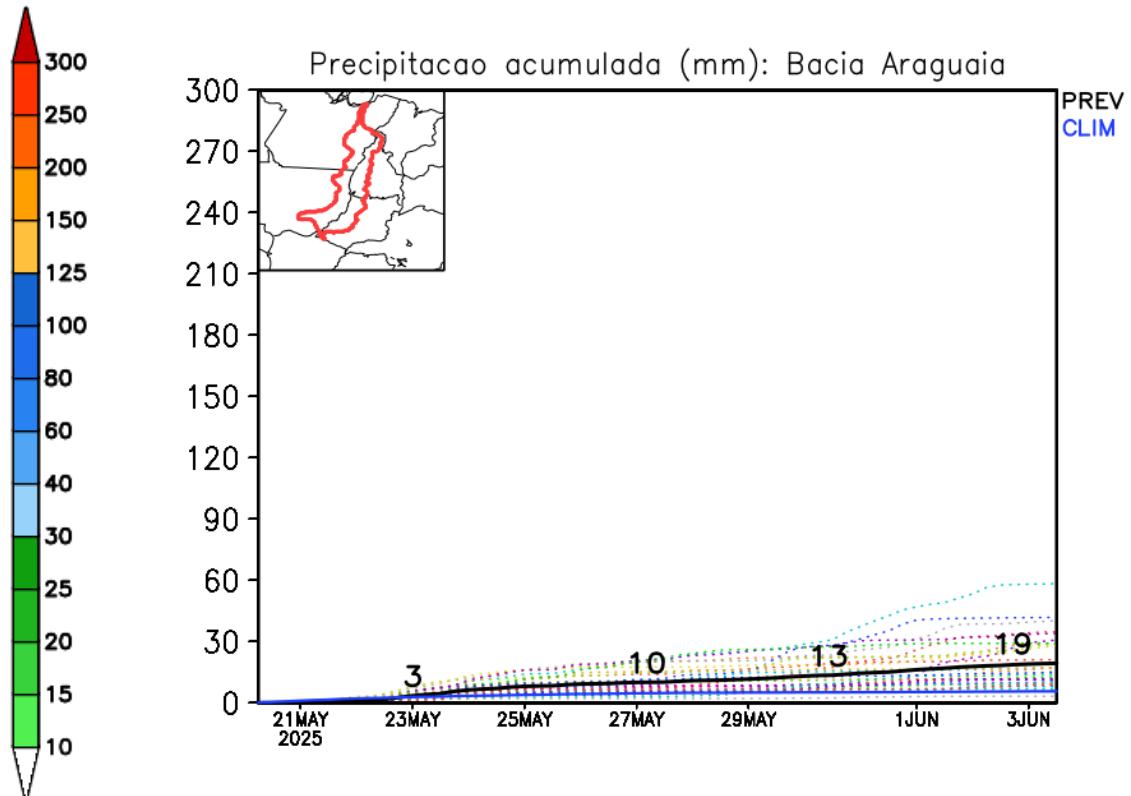
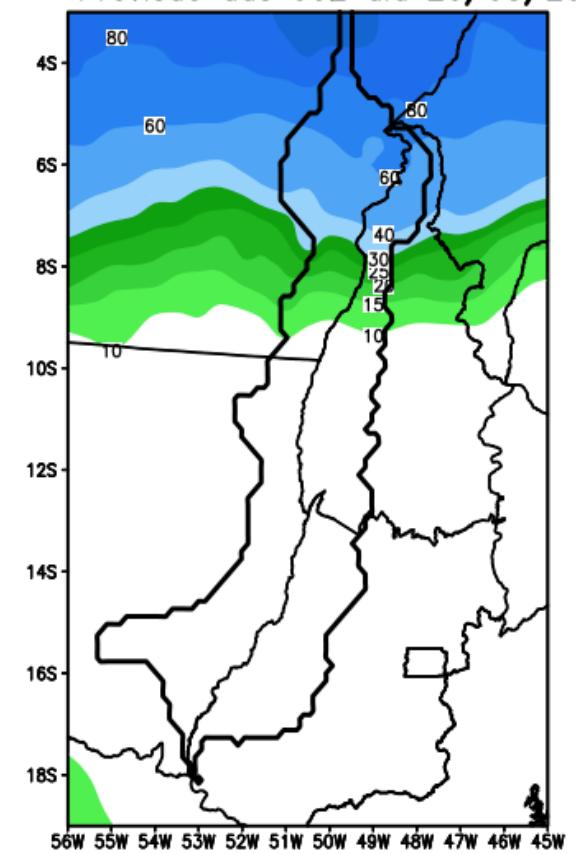
GEFS / Bacia Tocantins
Precipitacao acumulada em 14 dias (mm)
Previsao das 00Z dia 20/05/2025



Fonte: GEFS/NOAA

Previsão Bacia Rio Araguaia

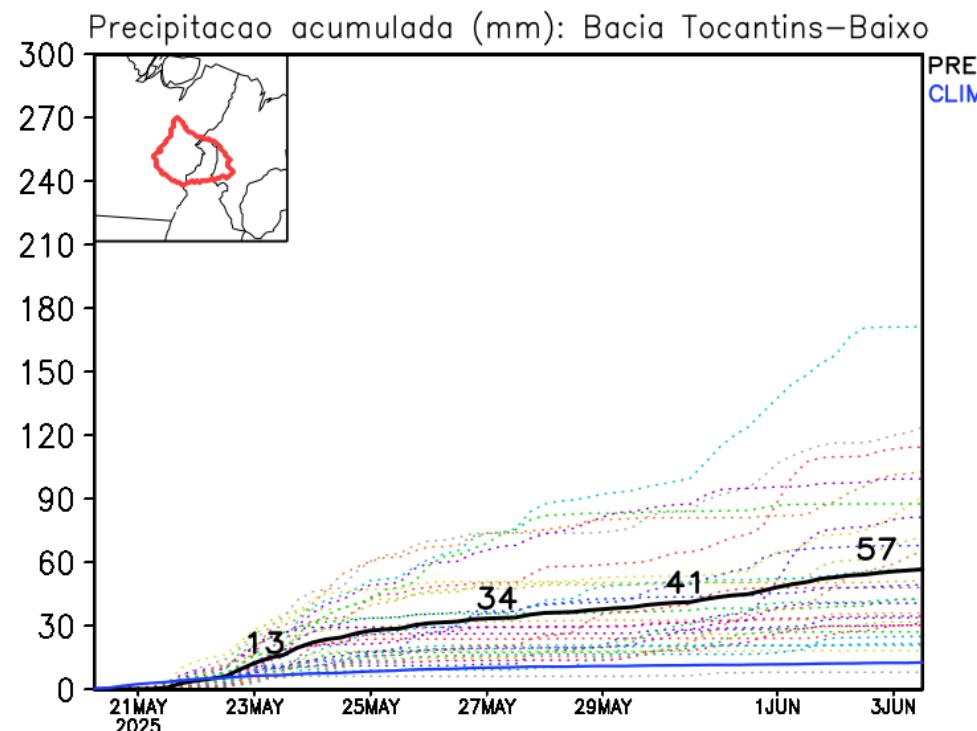
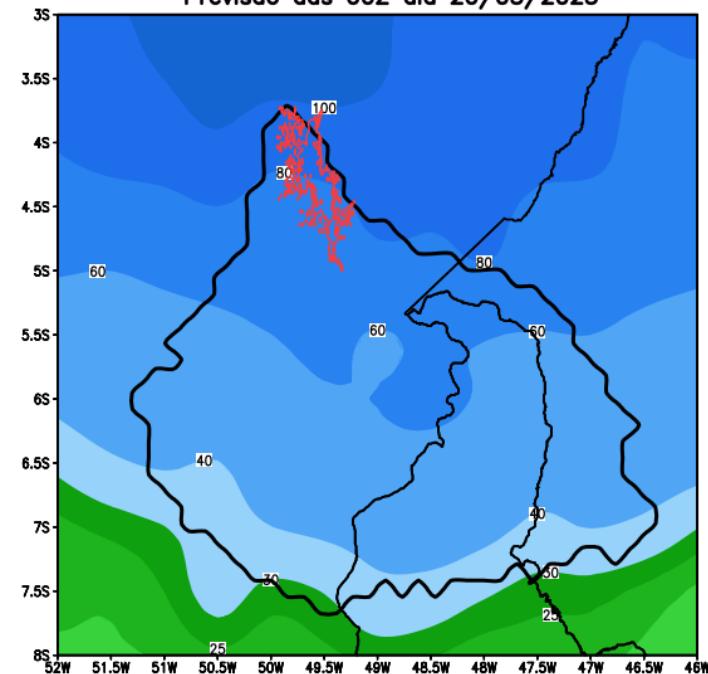
GEFS / Bacia do Rio Araguaia
Precipitacao acumulada em 14 dias (mm)
Previsao das 00Z dia 20/05/2025



Fonte: GEFS/NOAA

Previsão Bacia Tocantins (Baixo)

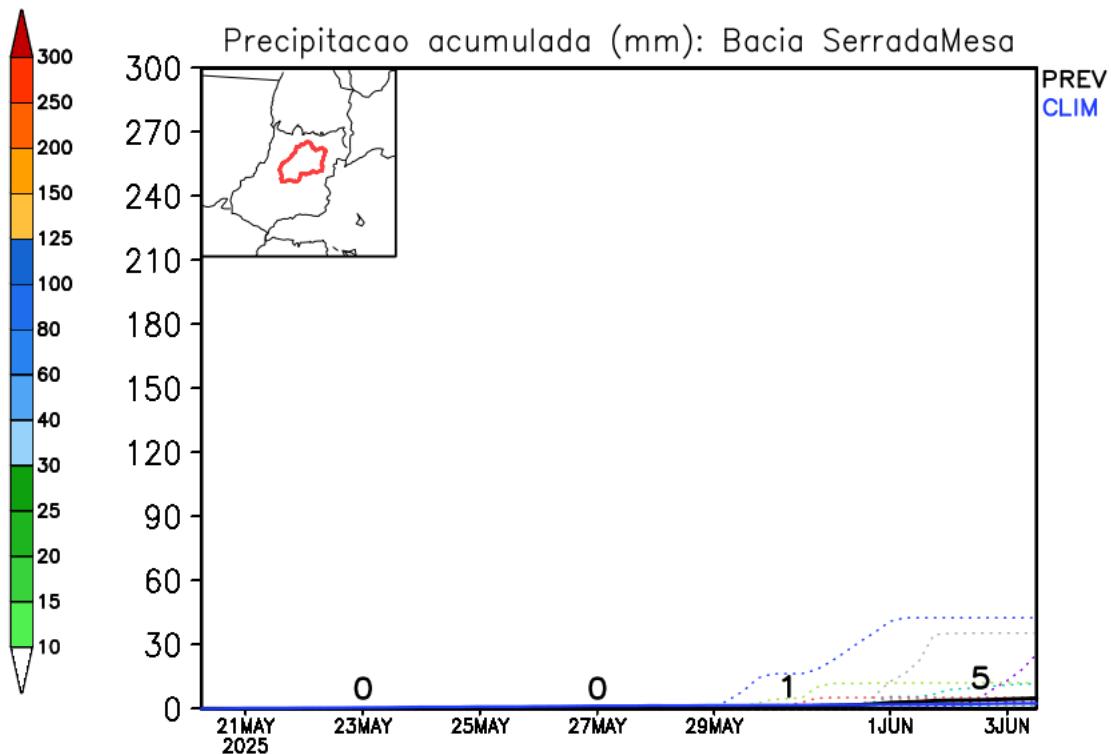
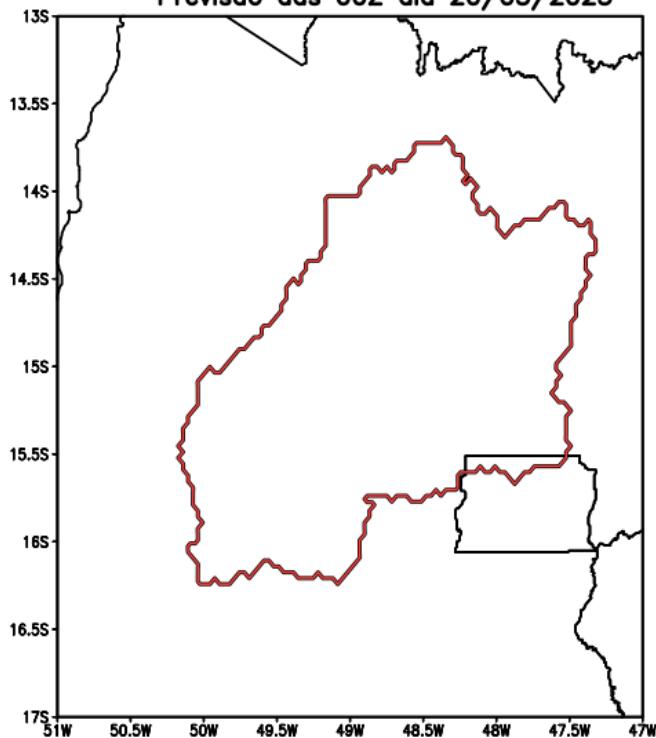
GEFS / Bacia Baixo Tocantins
Precipitacao acumulada em 14 dias (mm)
Previsao das 00Z dia 20/05/2025



Fonte: GEFS/NOAA

Previsão Bacia Serra da Mesa

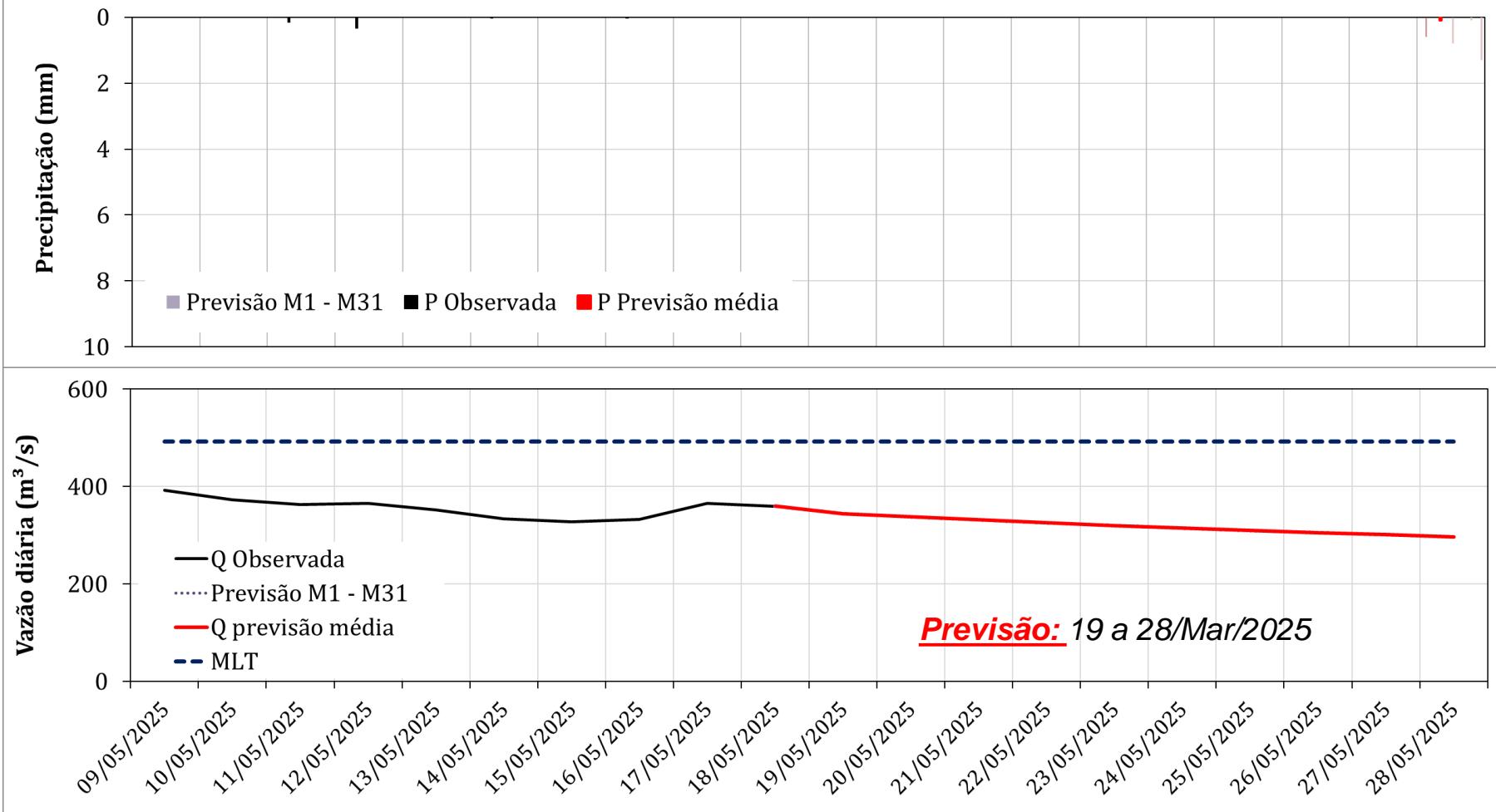
GEFS / Bacia Serra da Mesa
Precipitacao acumulada em 14 dias (mm)
Previsao das 00Z dia 20/05/2025



Fonte: GEFS/NOAA

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

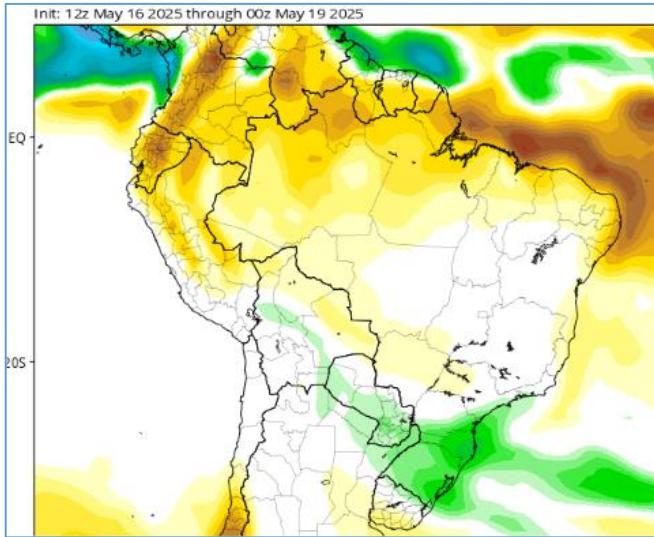
Vazão Natural e Precipitação Diárias para Serra da Mesa
09 a 28/Maio/2025



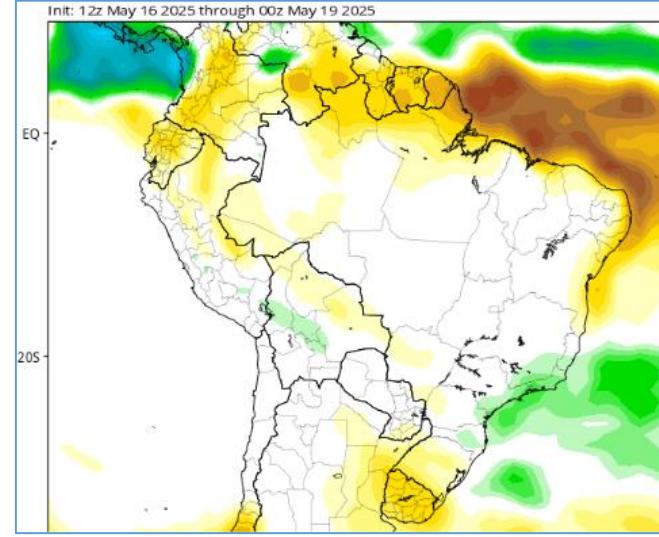
Previsão média para
os próximos 10 dias: 319 m³/s 65% da MLT de Maio

Tendência 3a e 4a semanas

02-09 Junho

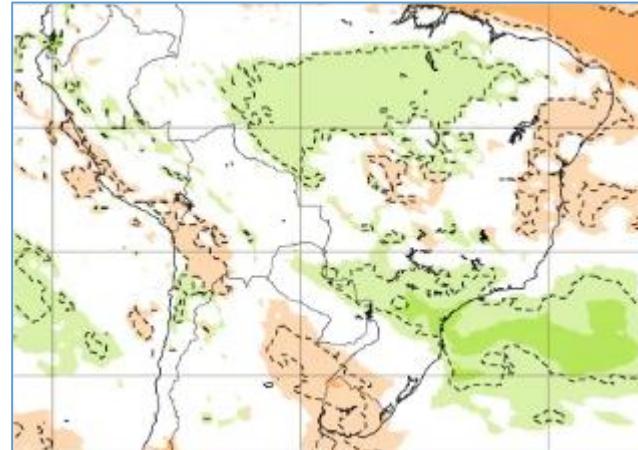
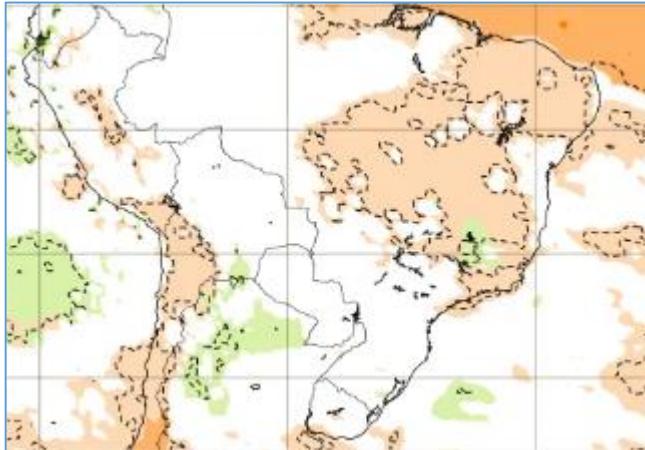


09-16 Junho



CFS/NOAA

ECMWF



02-09 Junho

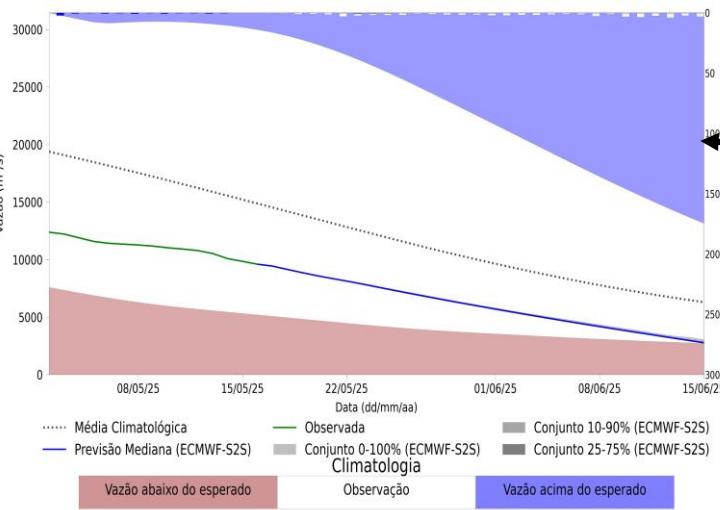


09-16 Junho

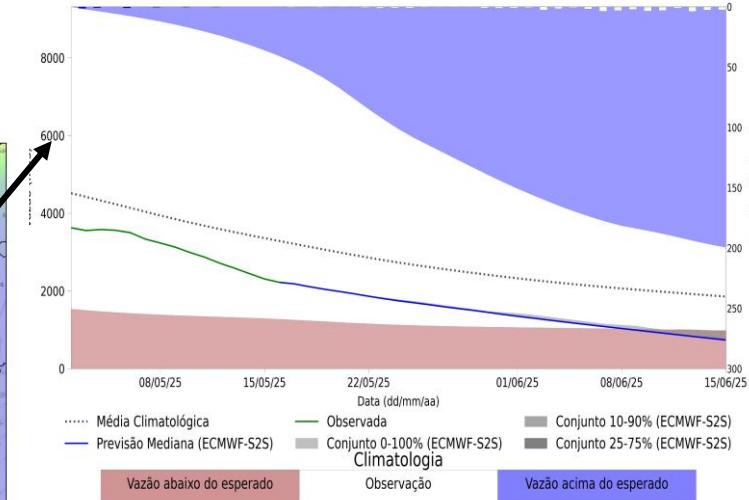
Previsão de vazão natural na Bacia Rio Tocantins-Araguaia 30 dias (Modelo hidrológico MHD)

Previsão: 16/05/2025 a 15/06/2025

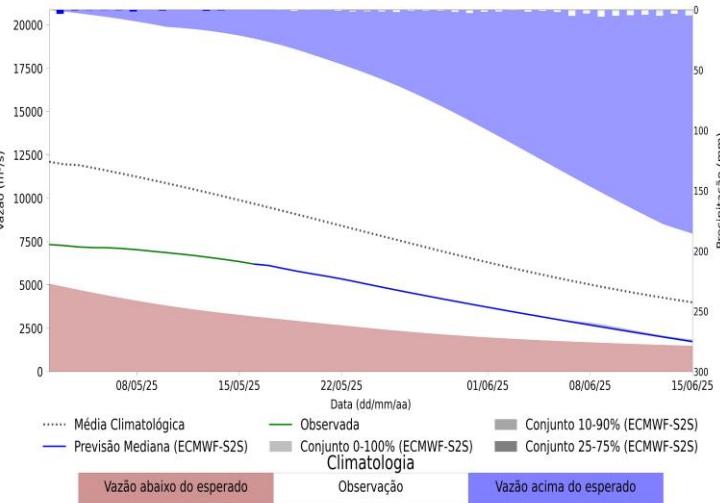
UHE Tucuruí



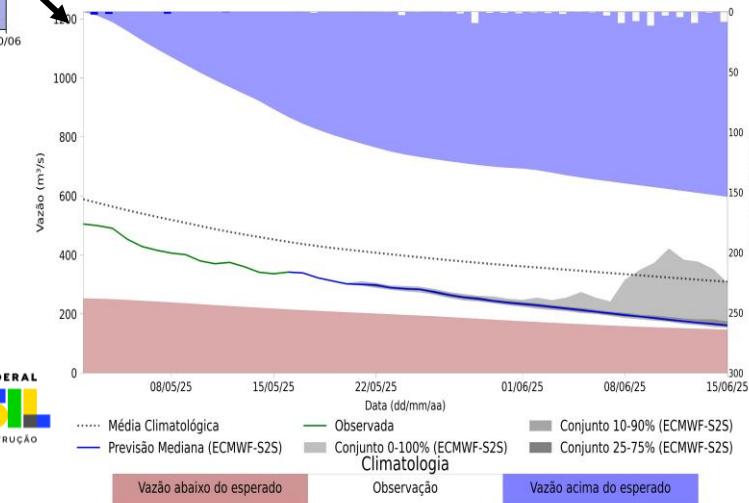
UHE Estreito



Araguatins - TO



UHE Serra da Mesa



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

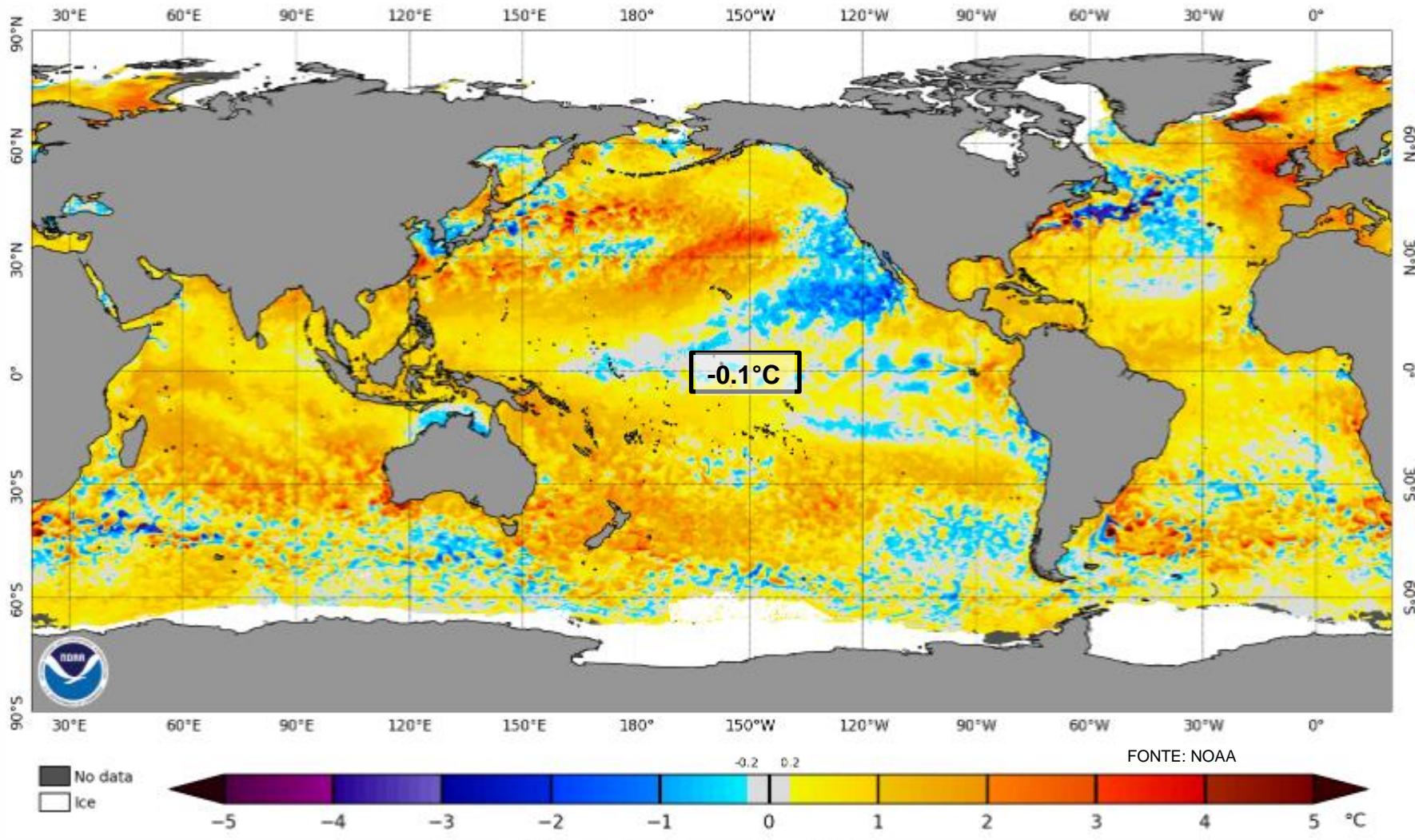


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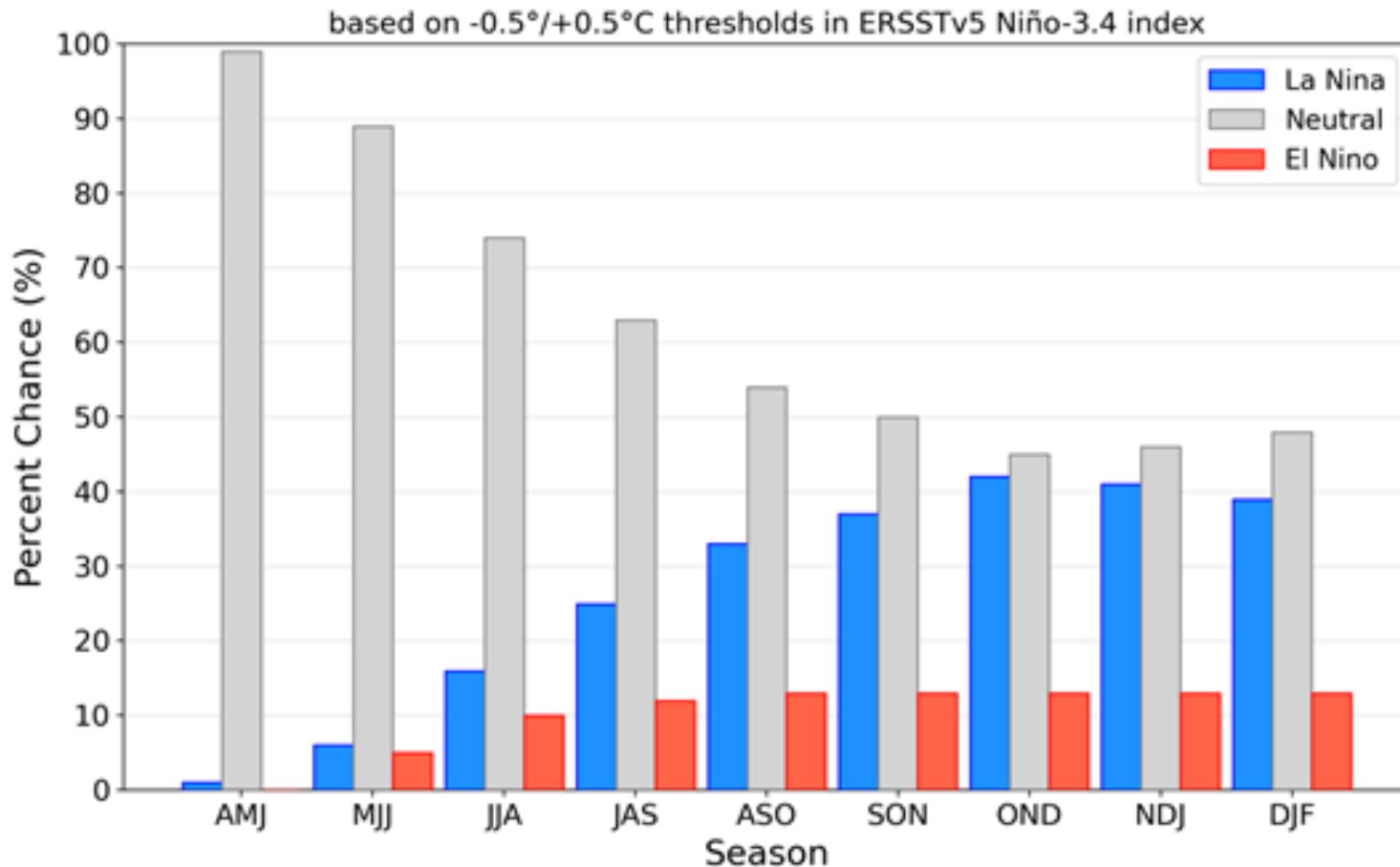
Status Atual: Neutralidade

NOAA Coral Reef Watch Daily 5km SST Anomalies (v3.1) 18 May 2025



Previsão do “ENSO”

Official NOAA CPC ENSO Probabilities (issued May 2025)



Previsão Sazonal de Chuva Multi-Modelo

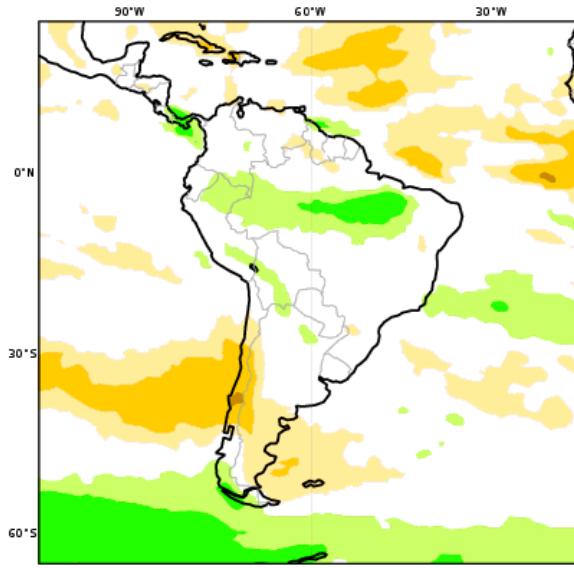
Junho-Julho-Agosto

C3S multi-system seasonal forecast

Prob(most likely category of precipitation)

Nominal forecast start: 01/05/25

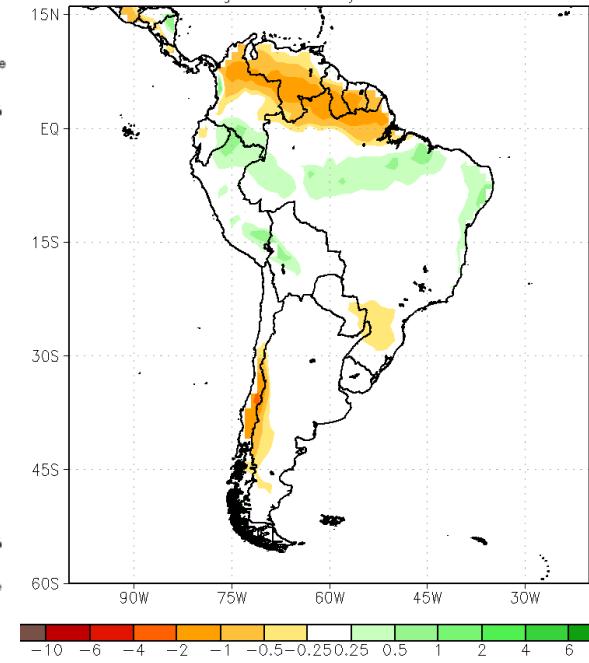
Unweighted mean



JJA 2025

NMME Precipitation Anomalies (mm/day)

Jun2025–Aug2025 May 2025 initial conditions

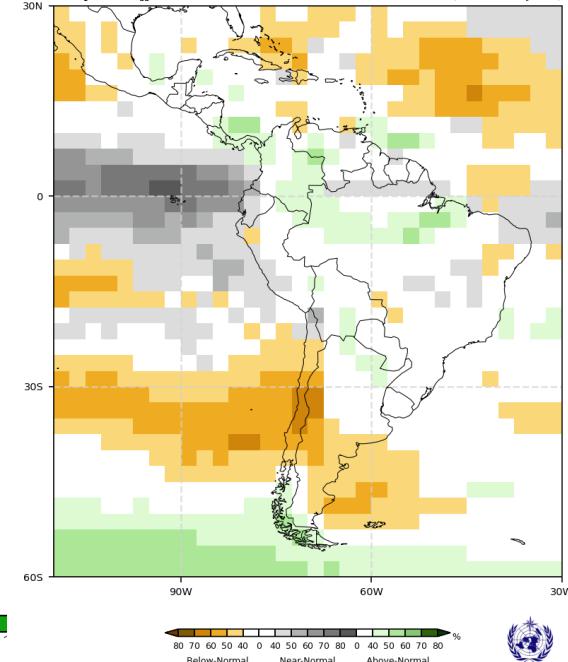


Probabilistic Multi-Model Ensemble Forecast

CMCC,CPTEC,ECMWF,Exeter,Melbourne,Montreal,Moscow,Offenbach,Seoul,Tokyo,Washington

Precipitation : JJA2025

(issued on May2025)

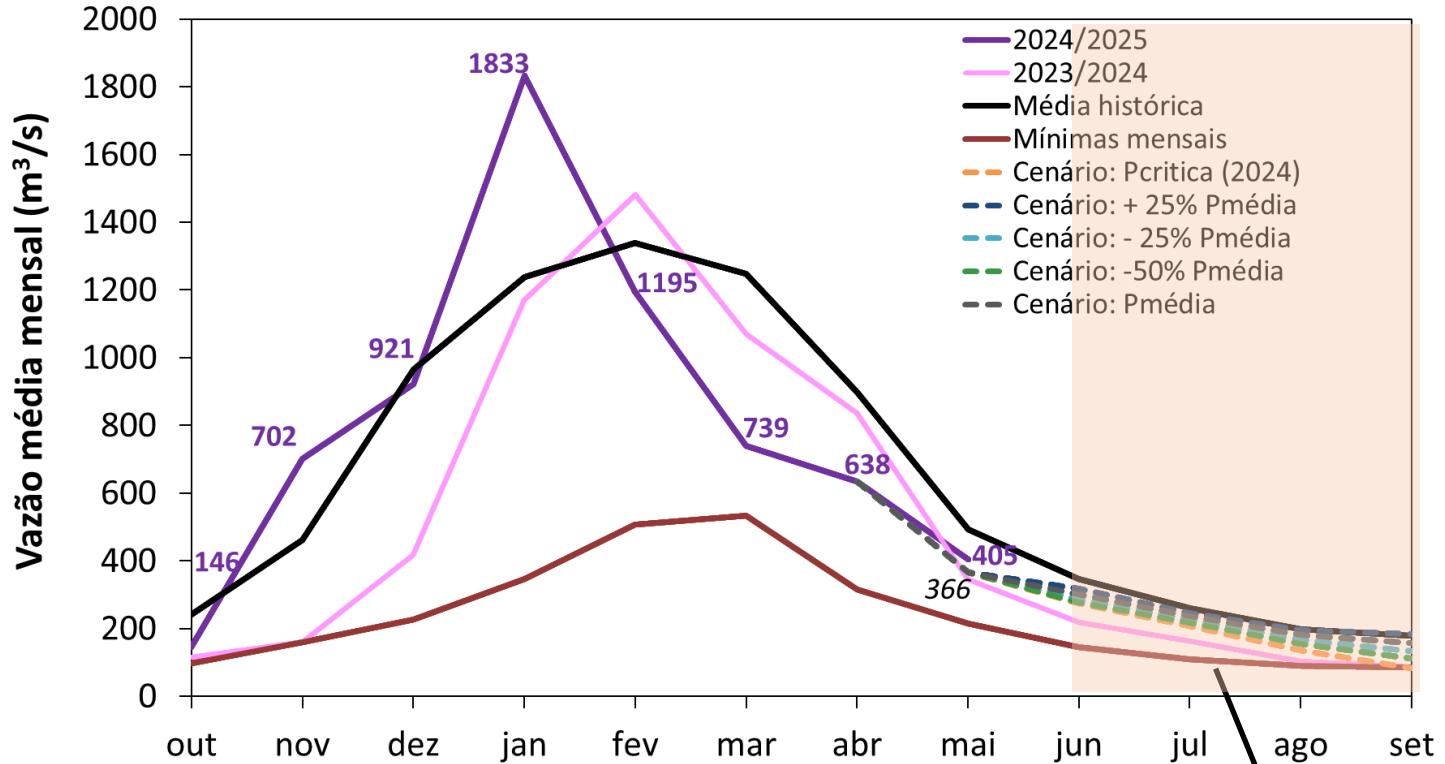


Modelos Europeus

Modelos Norte Americanos

Modelos da WMO

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



Jun-Set (Meses secos)
MLT: 246 m^3/s

Vazão	% MLT
235 m^3/s	96 %
219 m^3/s	89%
204 m^3/s	83%
175 m^3/s	71%