



CEMADEN

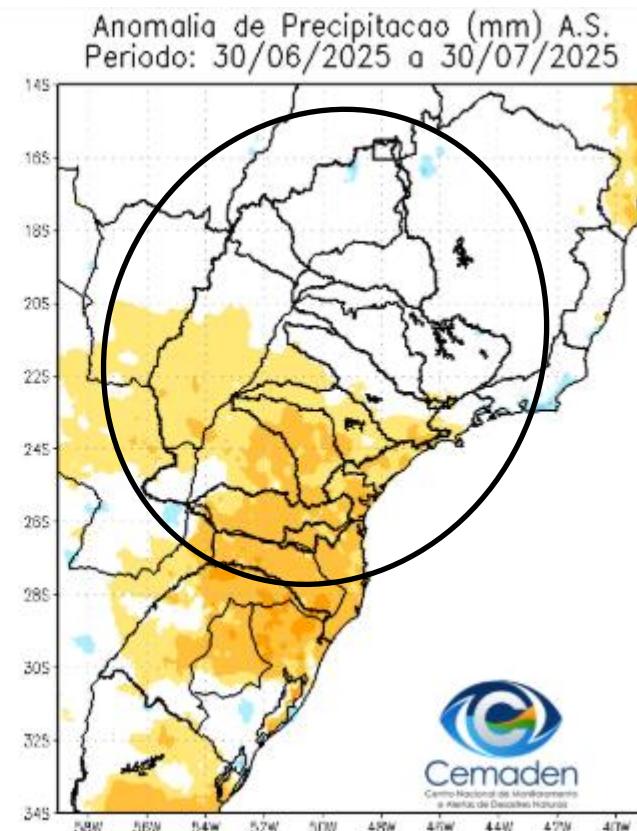
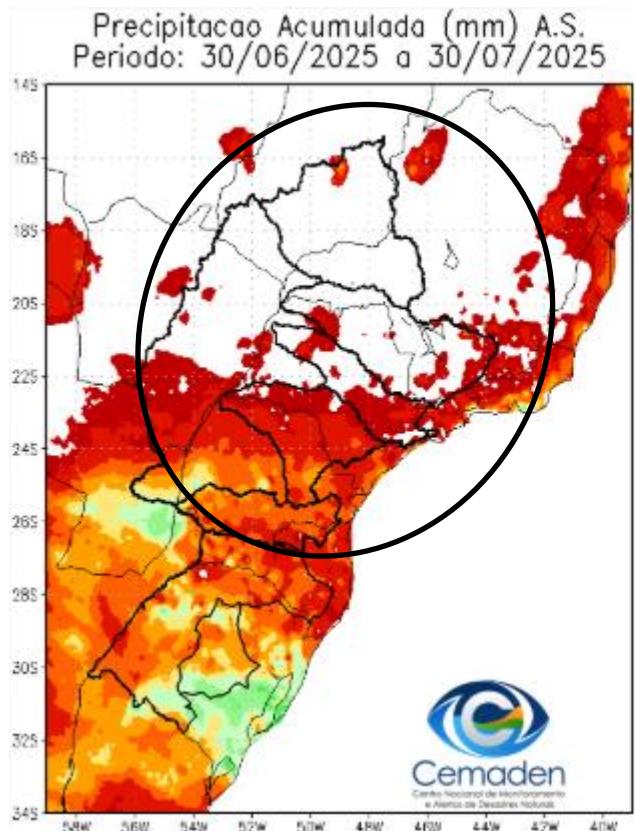
Centro Nacional de Monitoramento e
Alertas de Desastres Naturais

Monitoramento e Previsões
para a
Bacia do rio Paraná

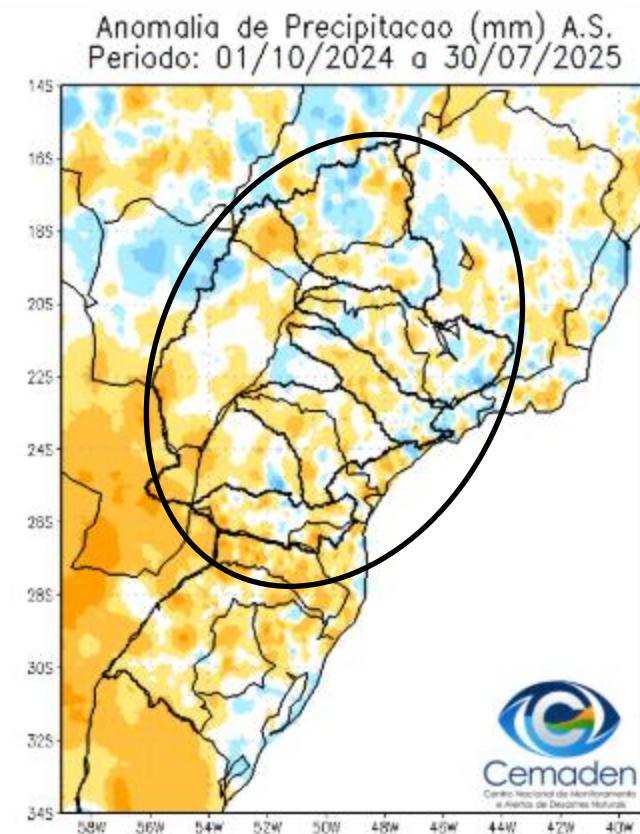
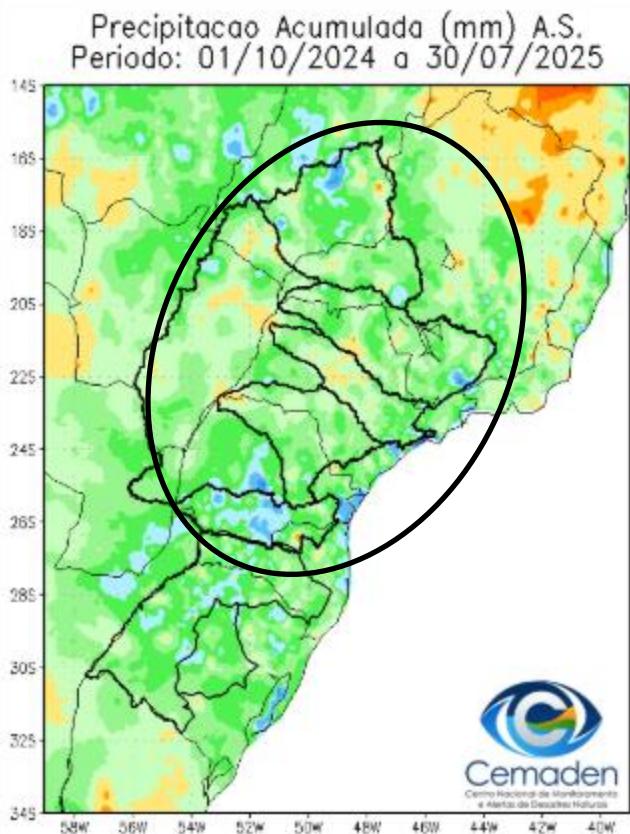
31 de Julho de 2025



Precipitação acumulada nos últimos 30 dias

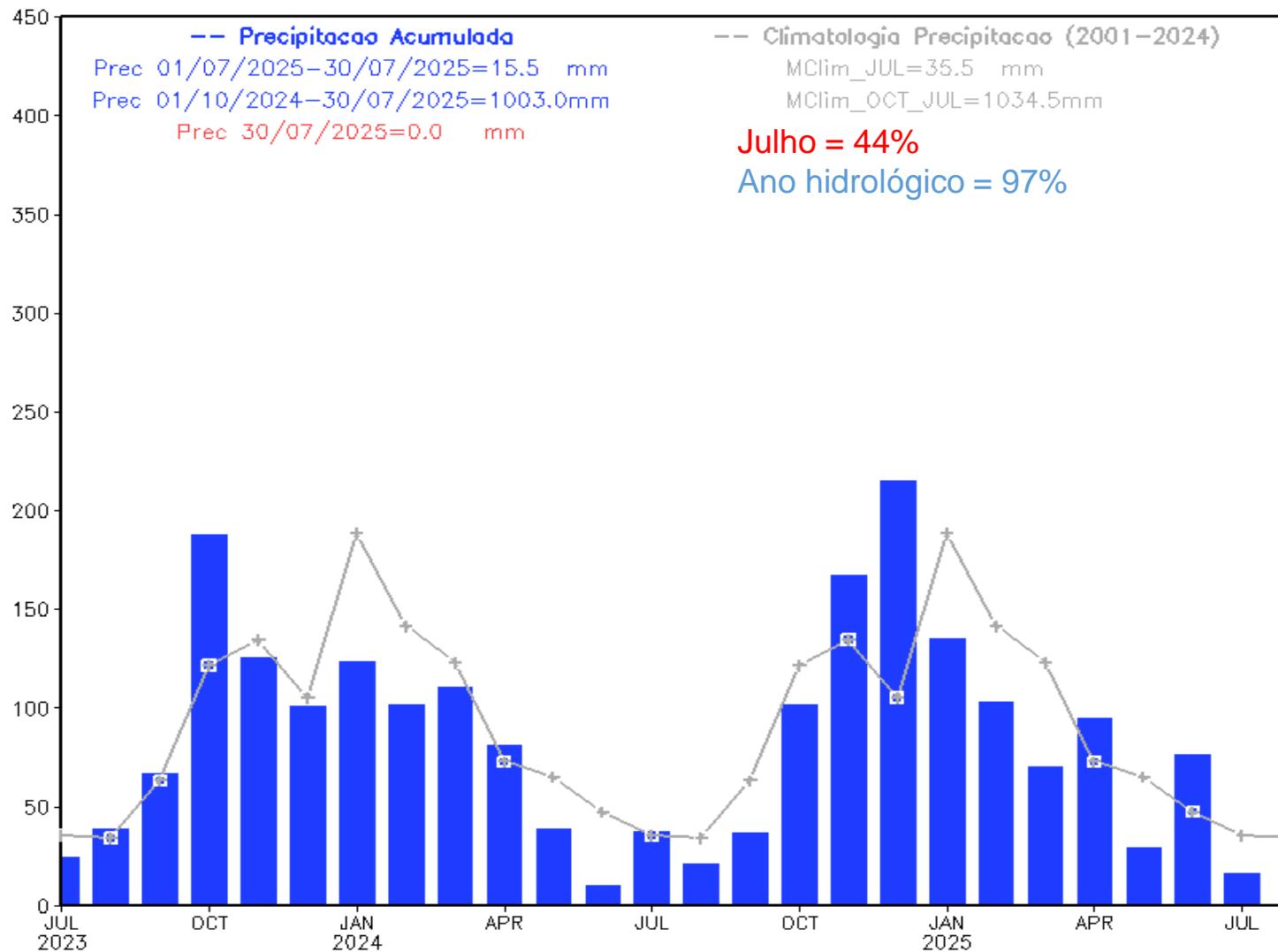


Precipitação acumulada no ano hidrológico 01/10/2024 a 24/04/2025

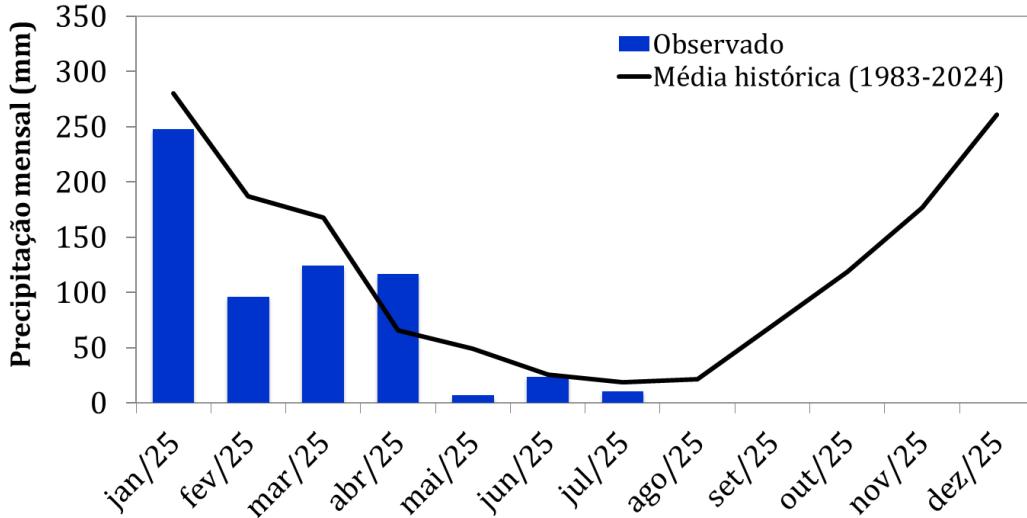


Precipitação acumulada nos últimos 24 meses

Precipitacao Bacia do Rio Parana desde JUL 2023



Monitoramento UHE Furnas



Precipitação

Estação Chuvosa - Out a Mar – 1192 mm

2023/2024: 1088 mm (91% da MLT)

2024/2025: 1148 mm (96% da MLT)

Estação Seca - Abr a Set – 250 mm

2024: 102 mm (41% da MLT)

2025*: 158 mm (96% da MLT PARCIAL)

Jul/2025*: 11 mm (57% da MLT)

*Até 29/07/2025

Vazão

Estação Chuvosa - Out a Mar – 1130 m³/s

2023/2024: 716 m³/s (63% da MLT)

2024/2025: 906 m³/s (80% da MLT)

Estação Seca - Abr a Set – 551 m³/s

2024: 309 m³/s (56% da MLT)

2025: 437 m³/s (79% da MLT)

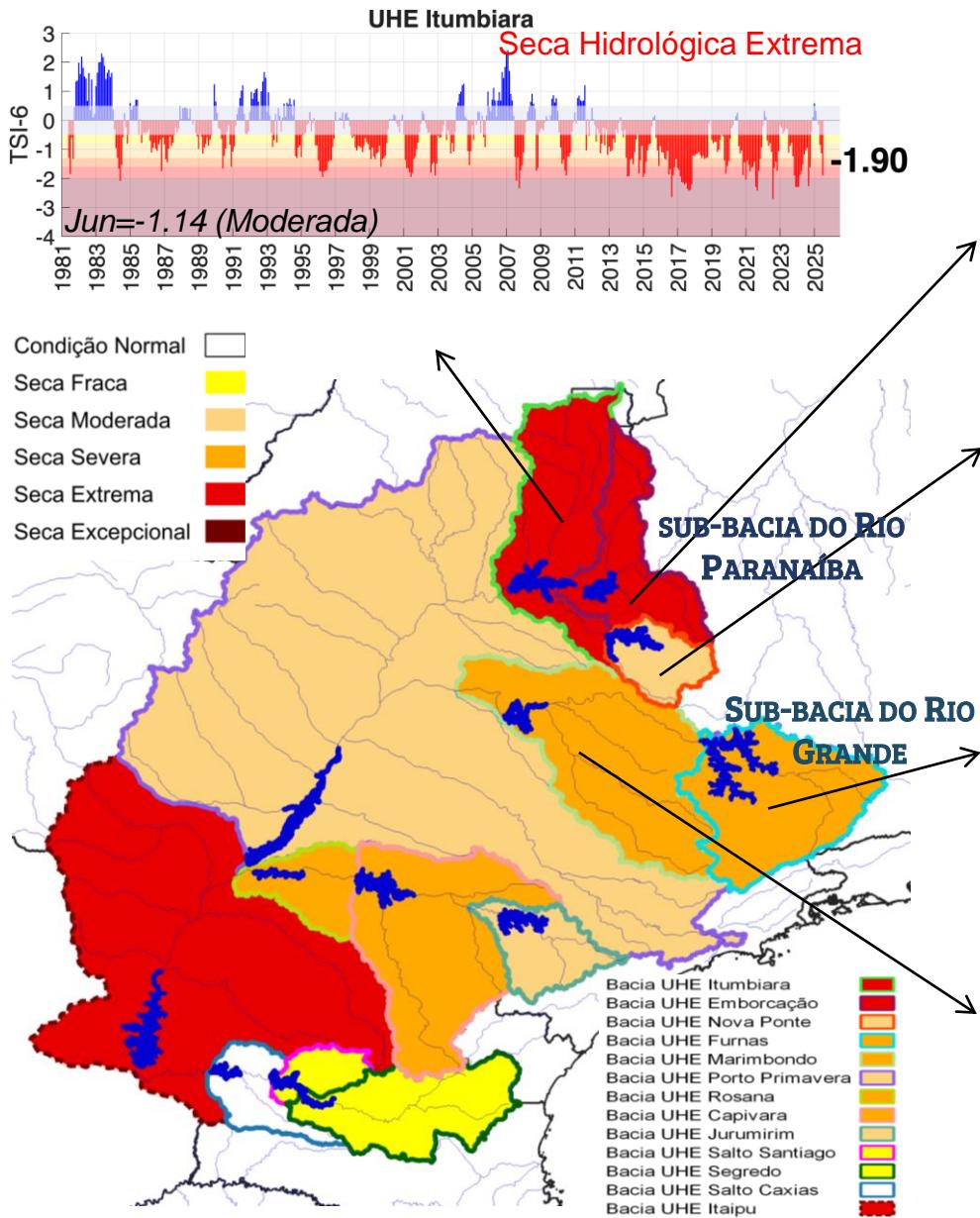
Jul/25**: 268 m³/s (60% da MLT)

29/jul/25: 176 m³/s (40% da MLT)

**Até 29/07/2025

BACIA DO RIO PARANÁ

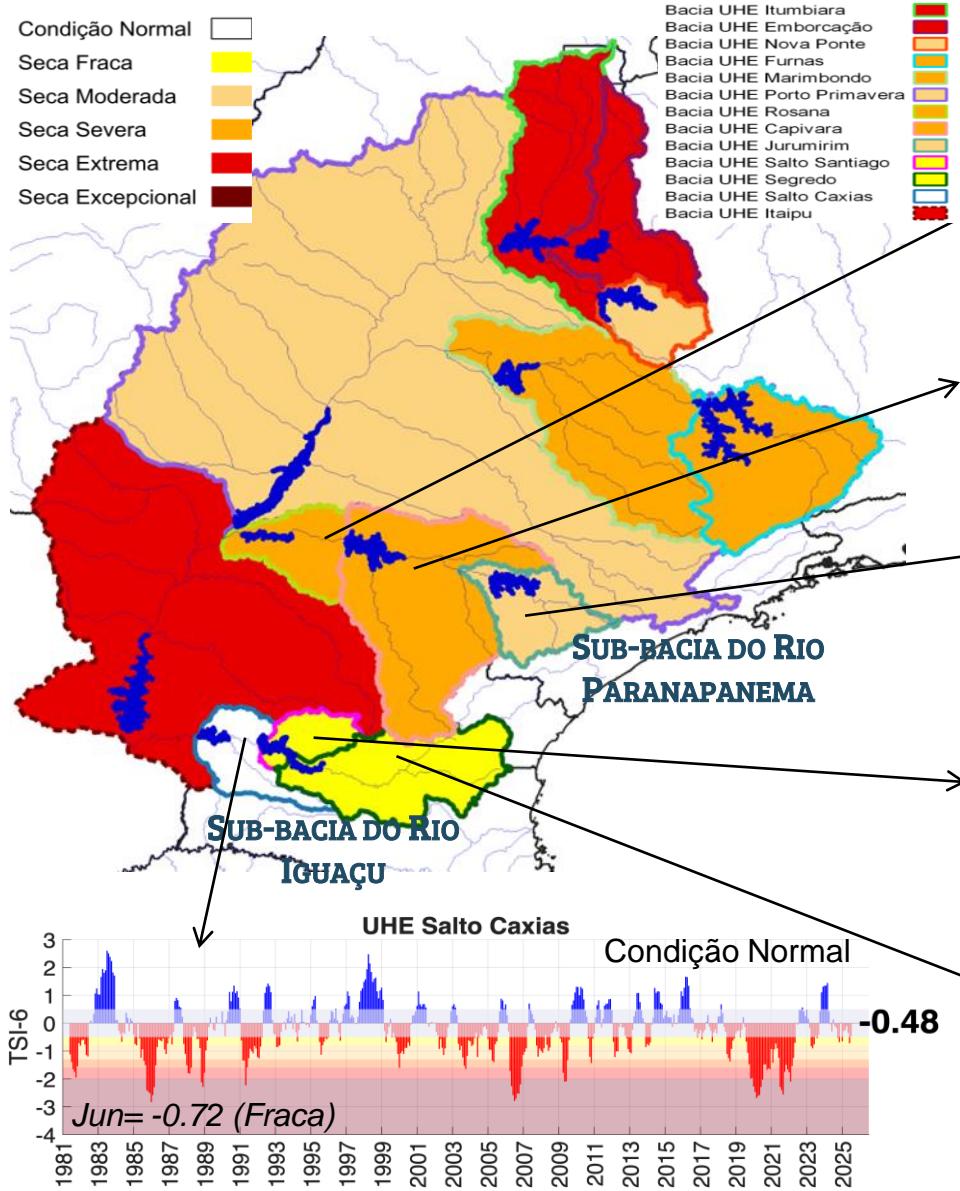
Índice de Seca Bivariado (Chuva-Vazão) – TSI 6



Julho/2025

BACIA DO RIO PARANÁ

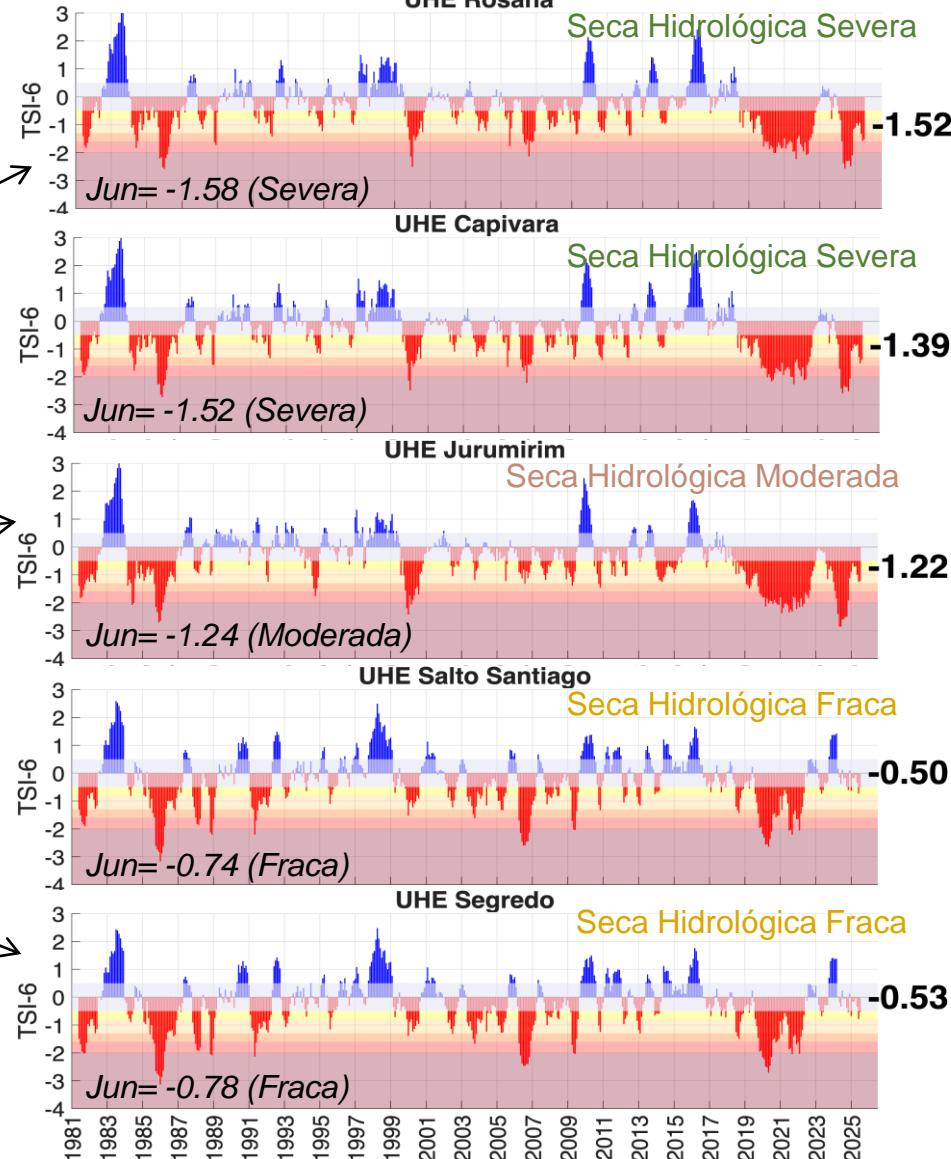
Índice de Seca Bivariado (Chuva-Vazão) – TSI 6



Julho/2025

UHE Rosana

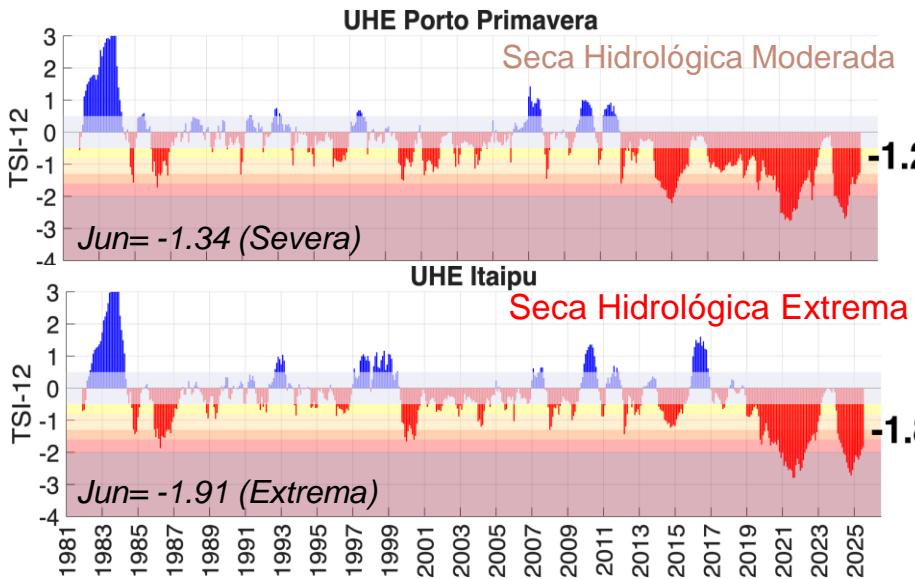
Seca Hidrológica Severa



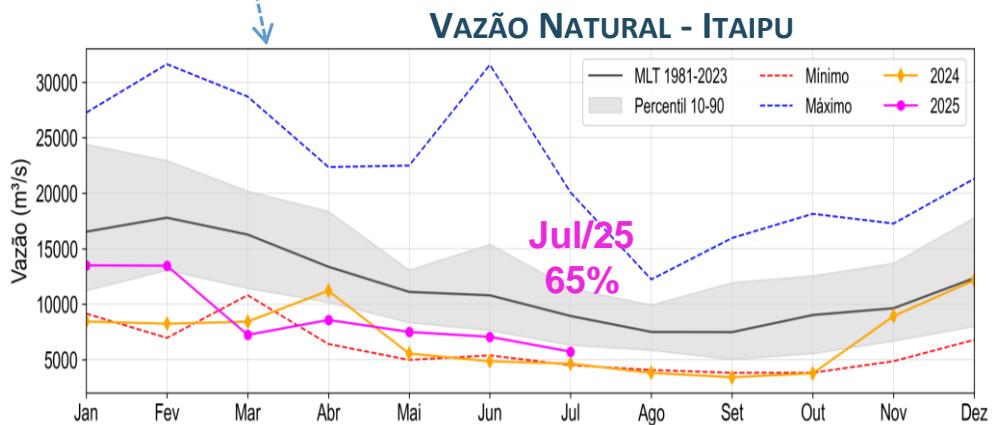
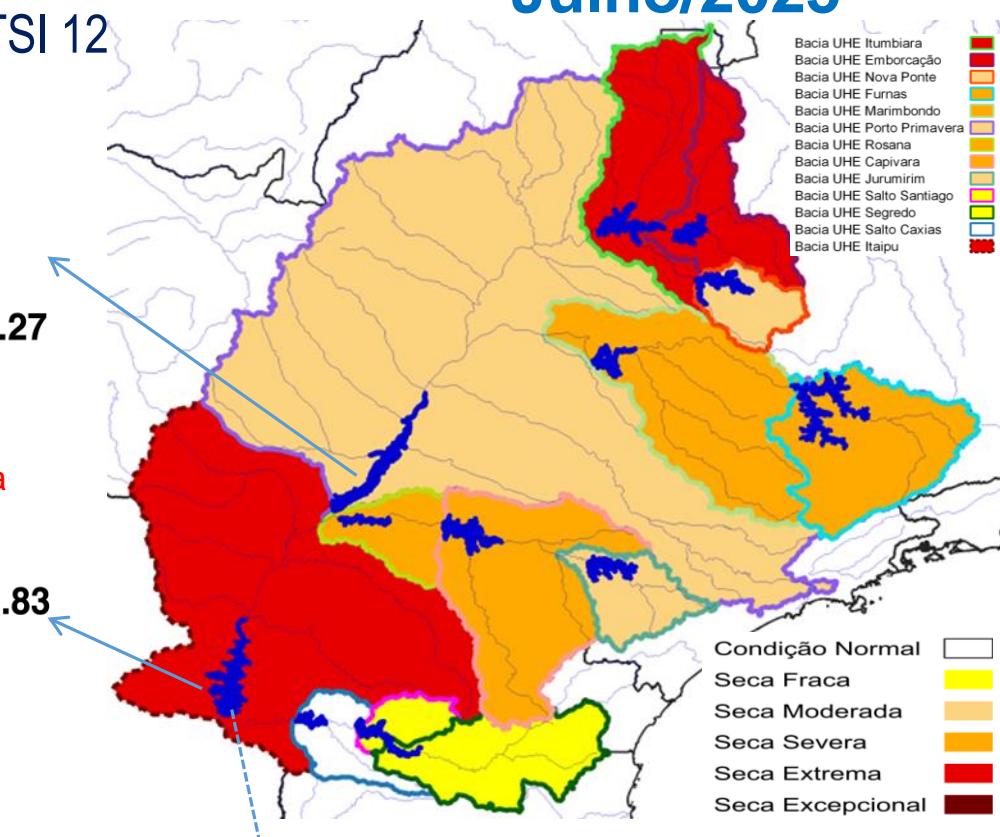
BACIA DO RIO PARANÁ

Julho/2025

Índice de Seca Bivariado (Chuva-Vazão) – TSI 12



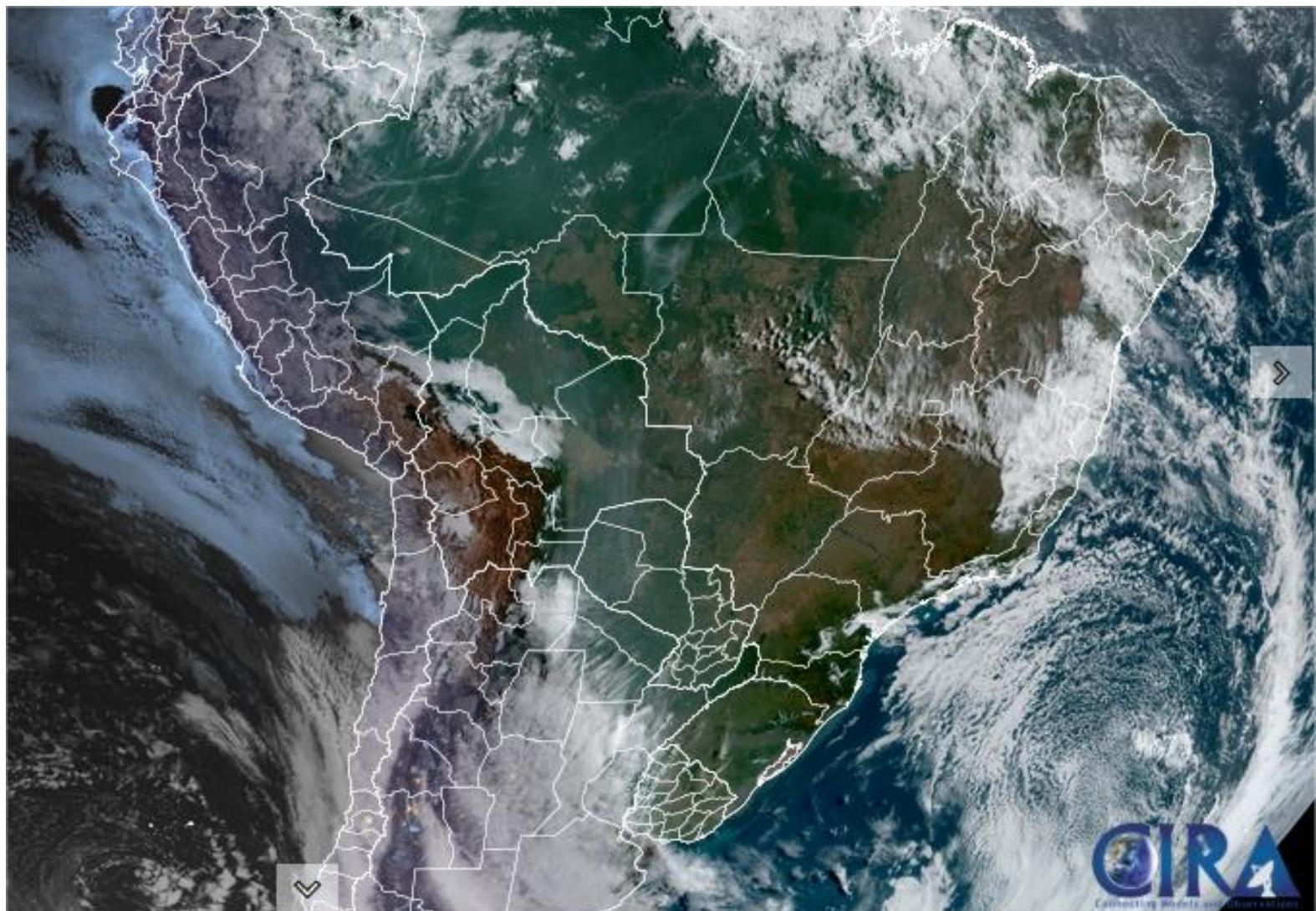
Série de dados = Jan/1981- Julho/2025



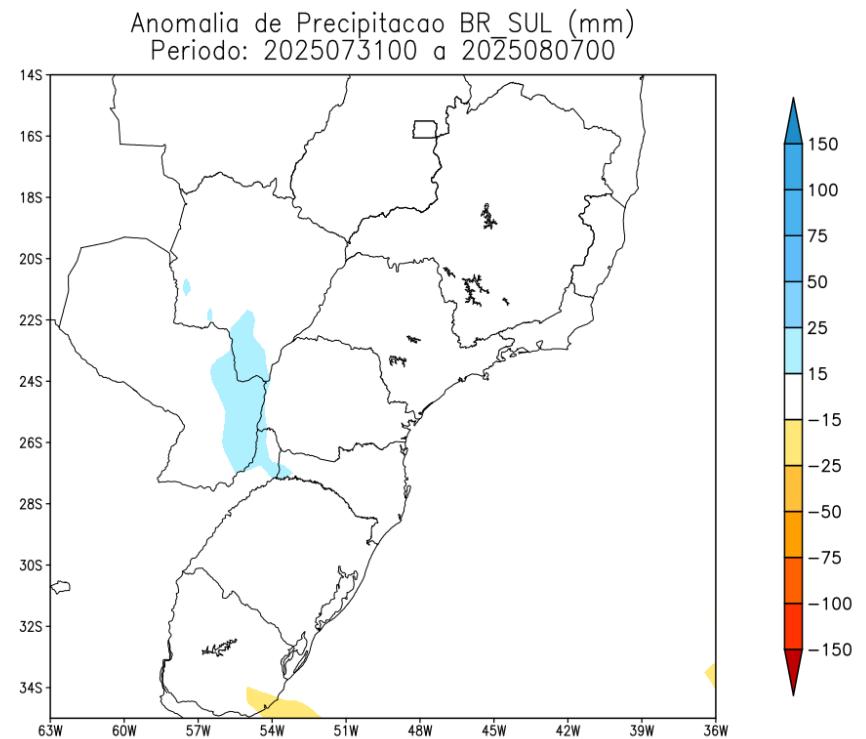
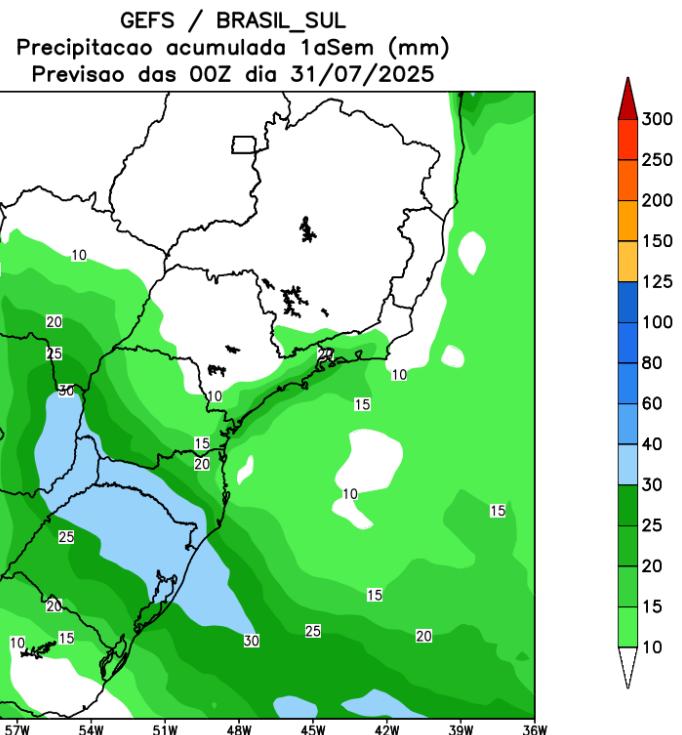
Fonte: CEMADEN/MCTI

Dados: Precipitação (CHIRPS) e Vazão (ONS e ANA)

Situação meteorológica atual

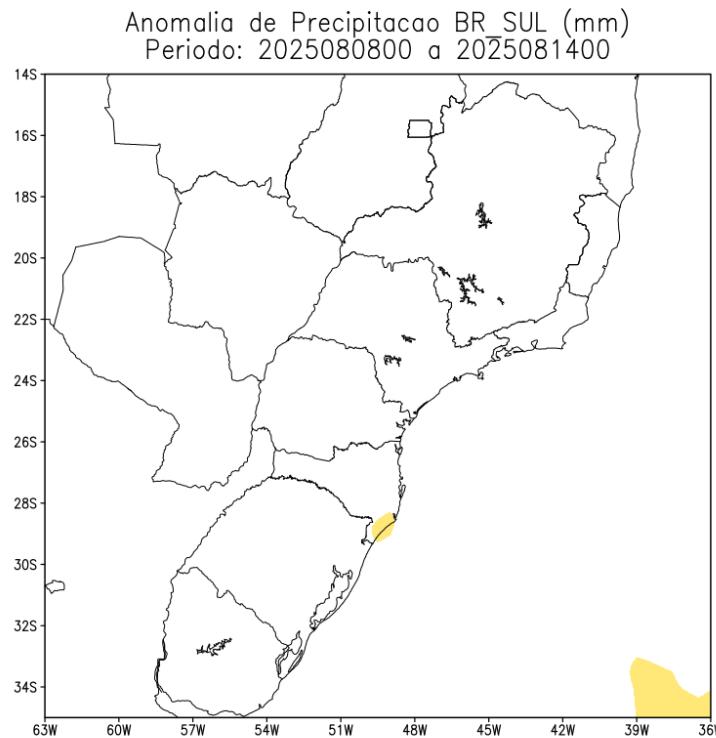
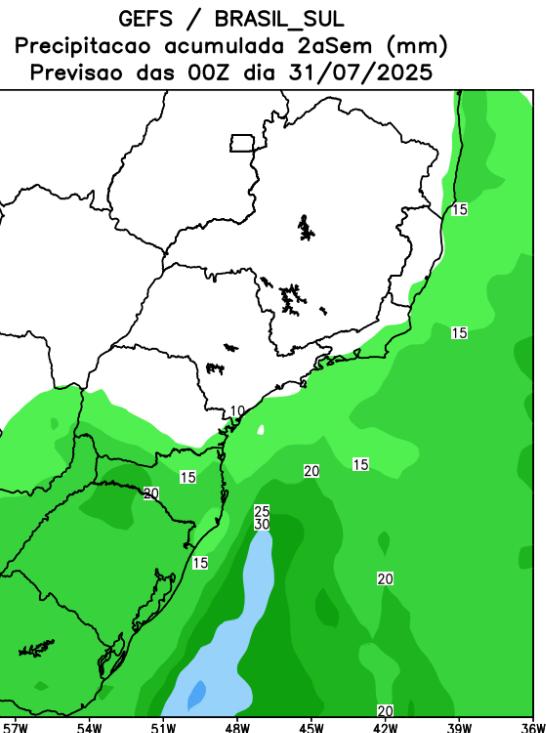


Previsão de chuva para os próximos 7 dias



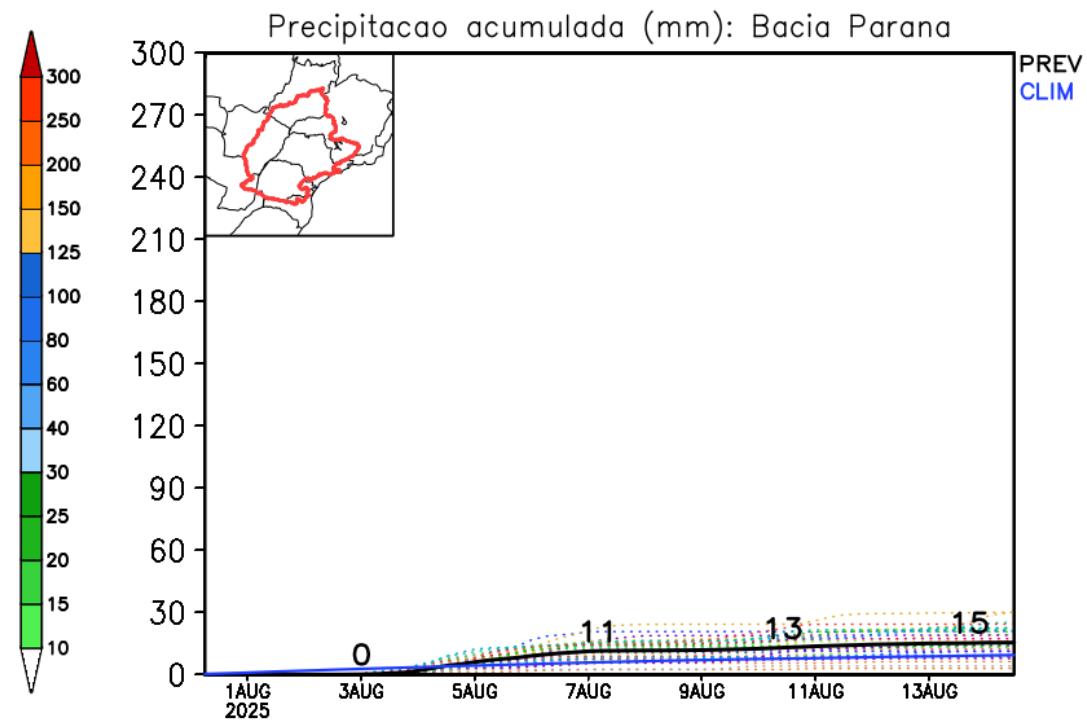
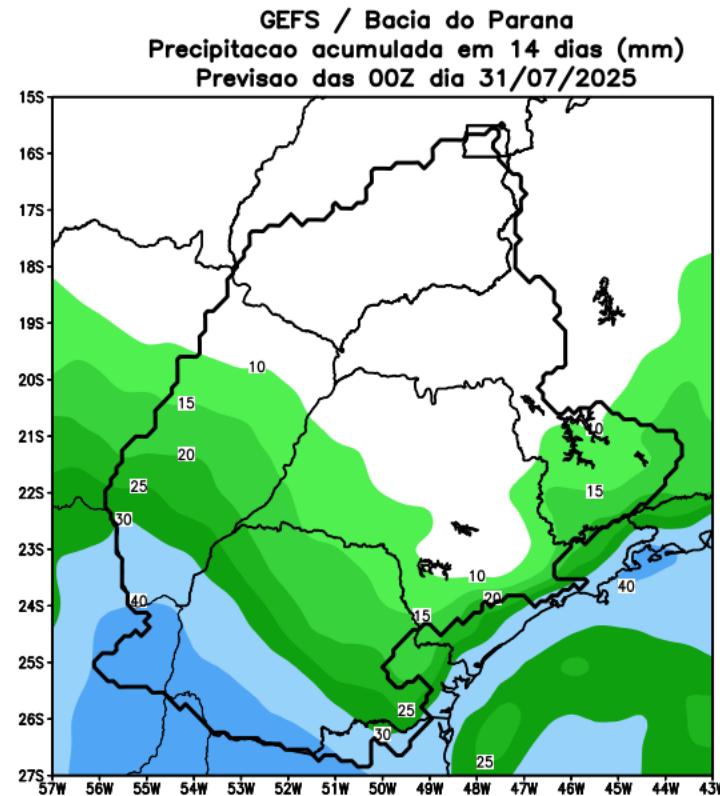
Fonte: GEFS/NOAA

Tendência para a 2ª Semana



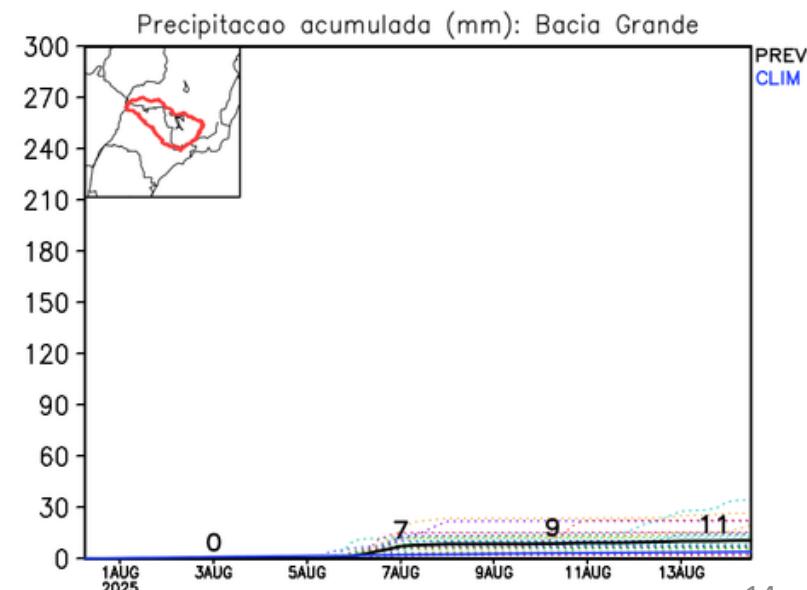
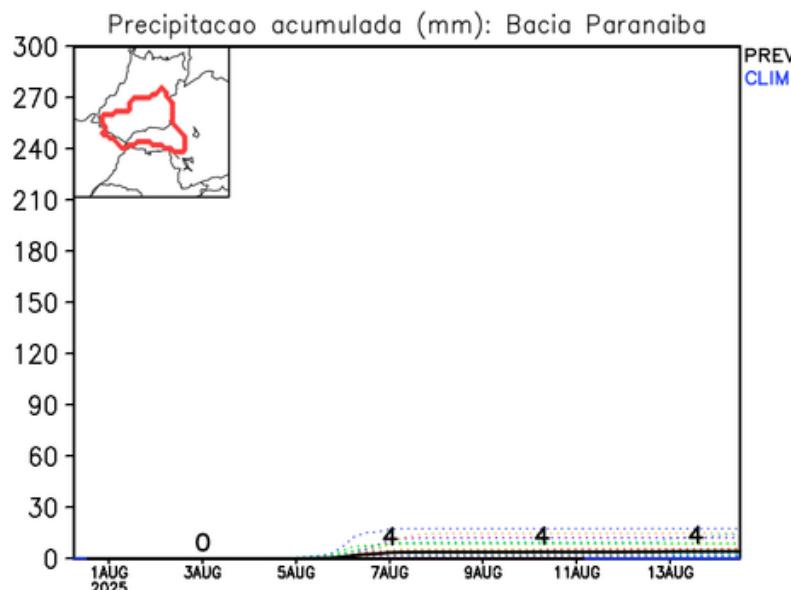
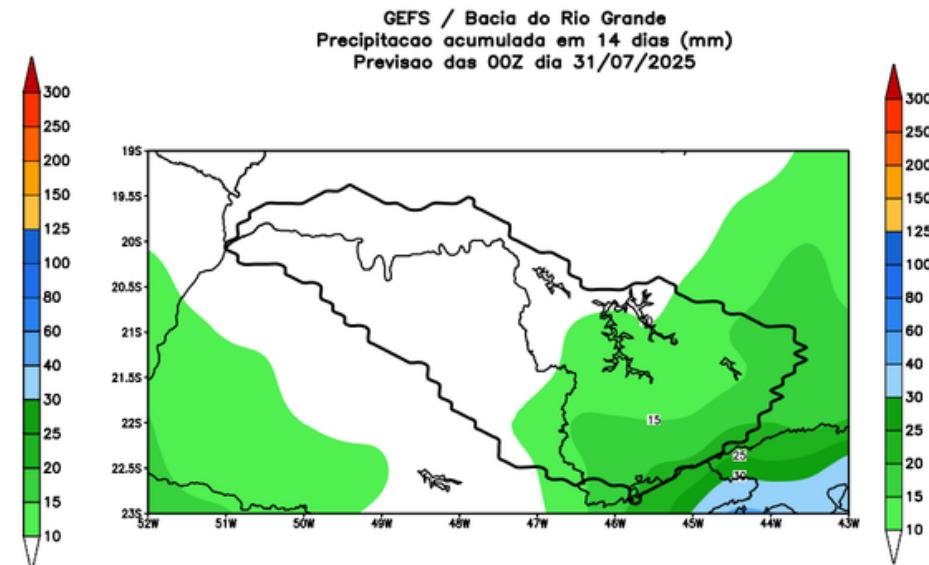
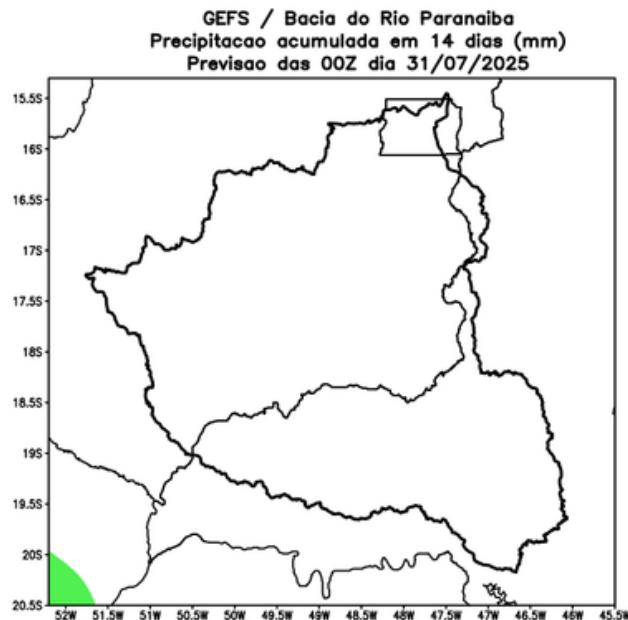
Fonte: GEFS/NOAA

Previsão de chuva para os próximos 14 dias

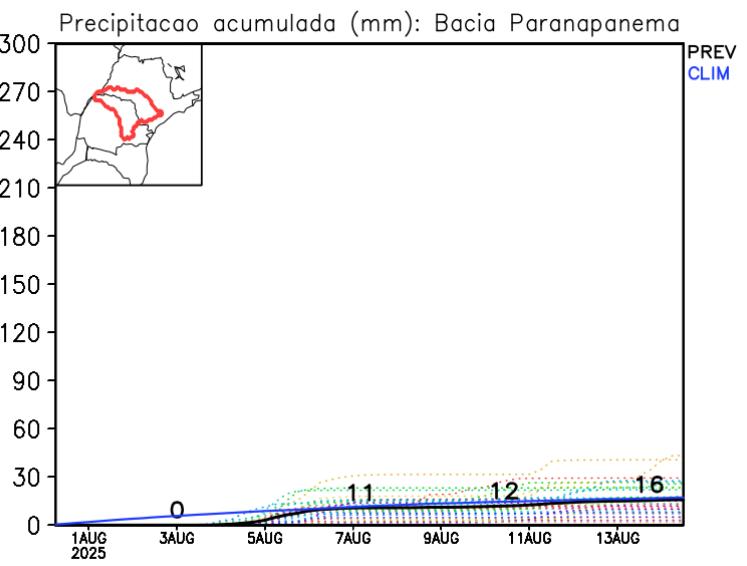
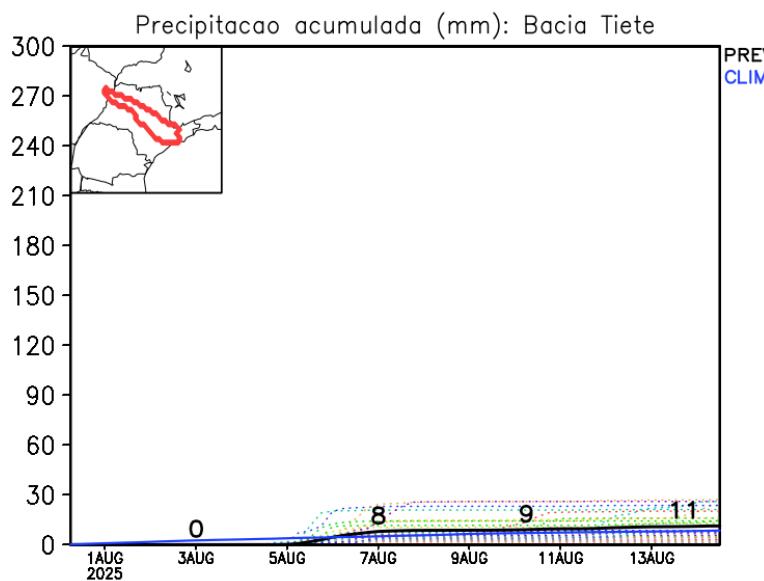
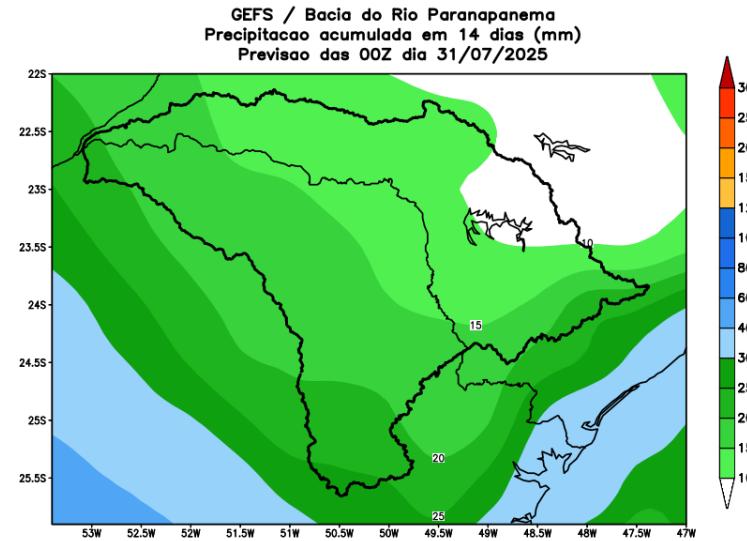
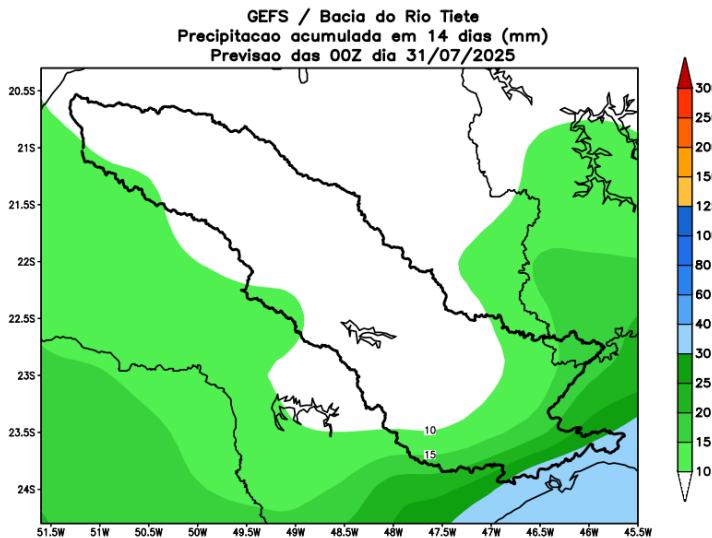


Fonte: GEFS/NOAA

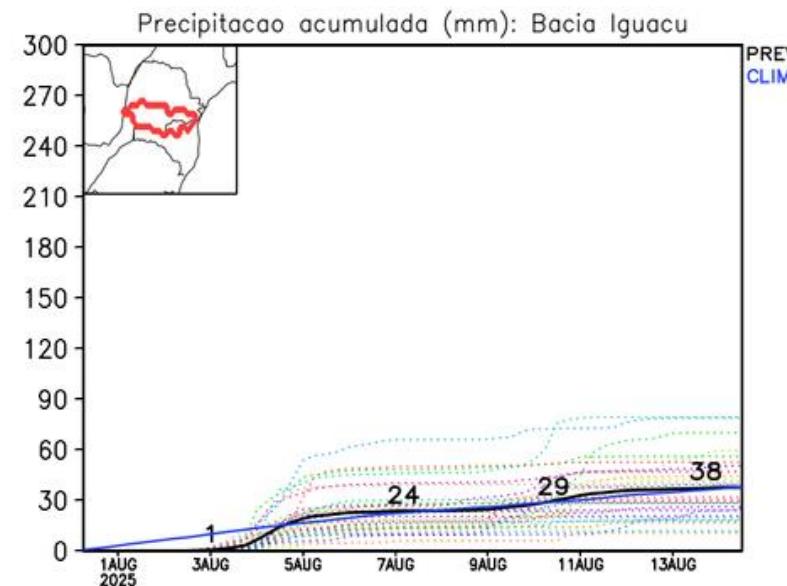
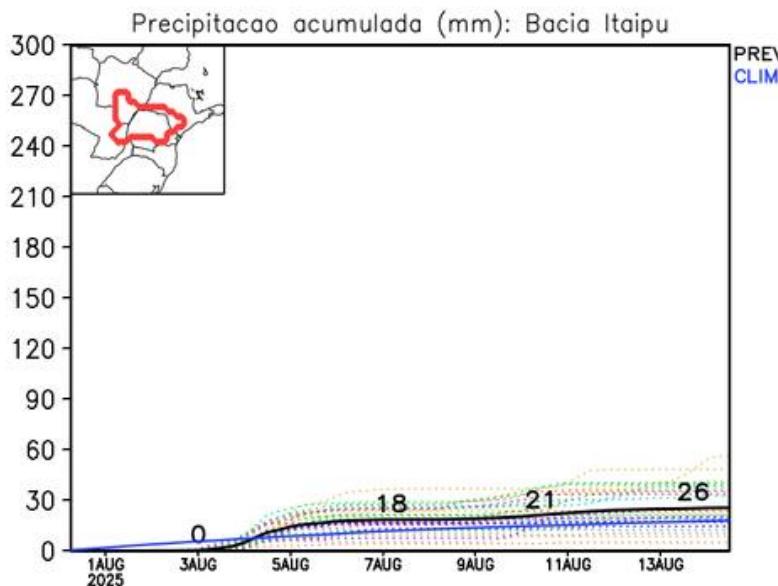
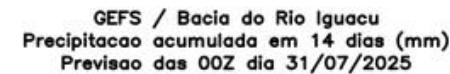
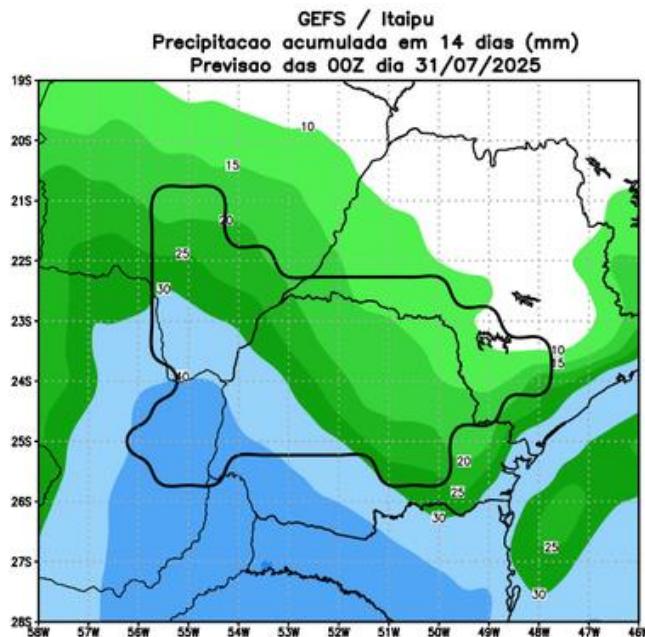
Bacia do rios Paranaíba e Grande



Bacia do rios Tietê e Paranapanema

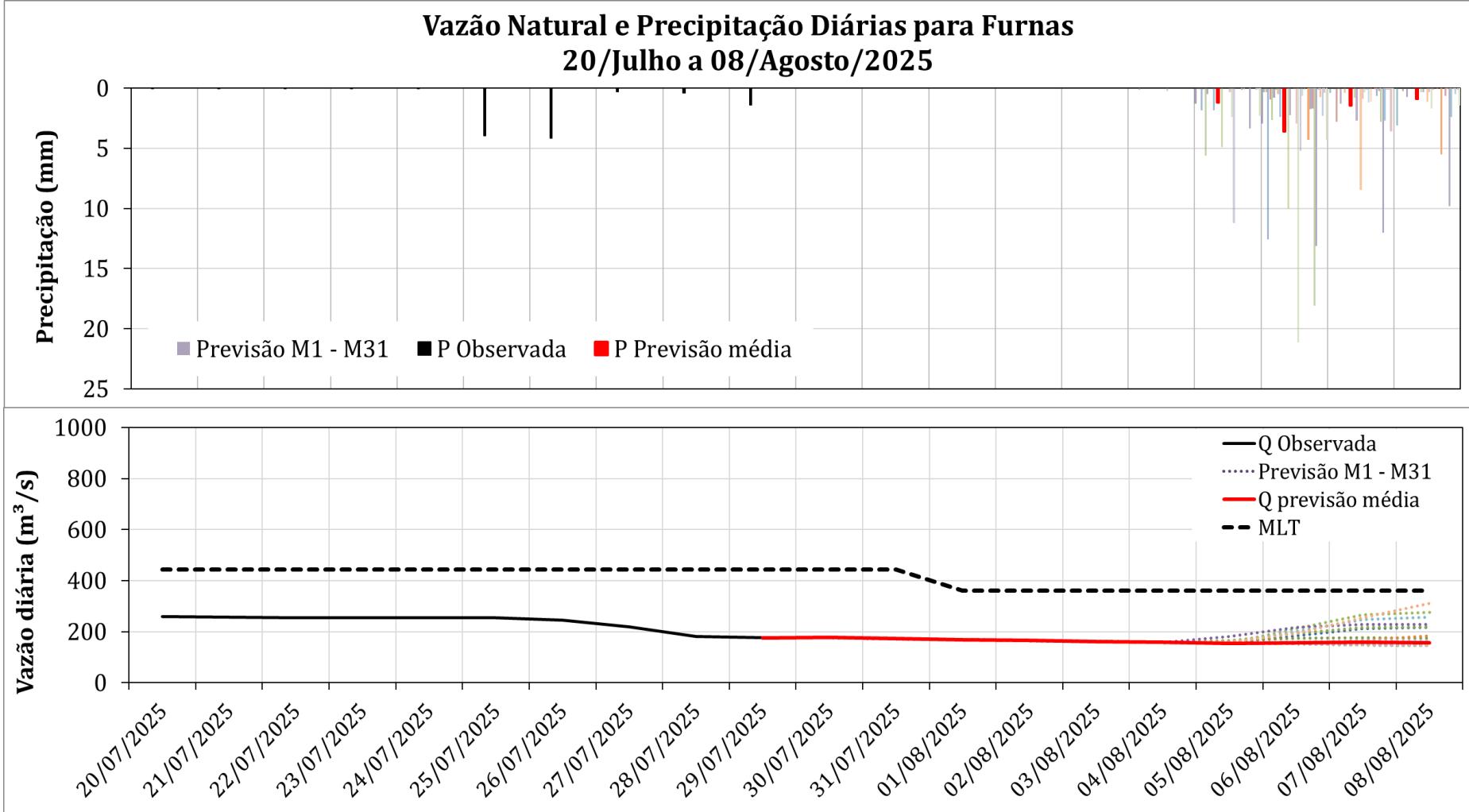


Bacia do Itaipu e Iguaçu



Furnas: Previsão de Vazão (modelo hidrológico PDM-CEMADEN)

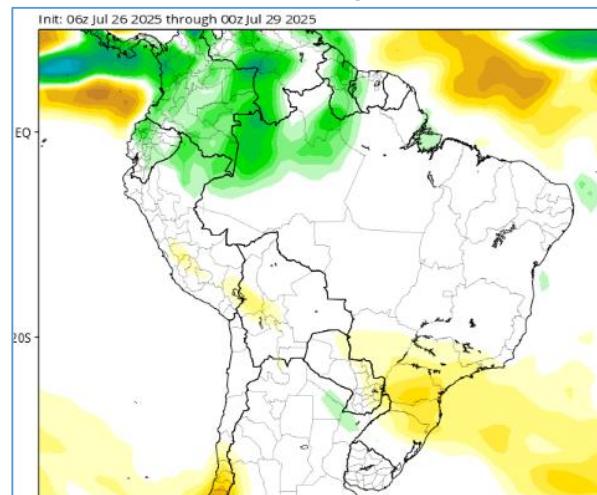
Vazão Natural e Precipitação Diárias para Furnas
20/Julho a 08/Agosto/2025



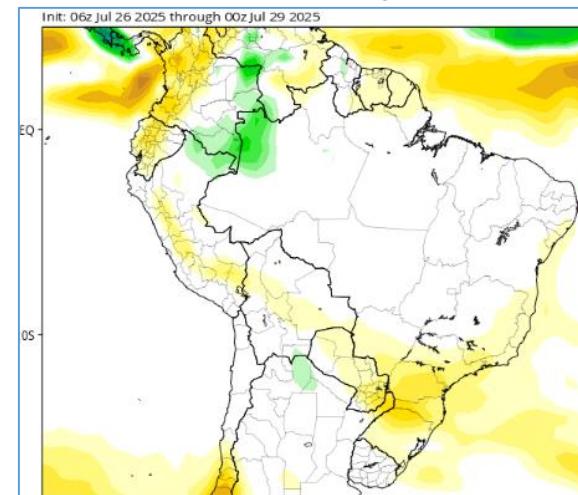
Previsão média para os próximos 10 dias: 163 m³/s
(45% da MLT Agosto)

Tendência 3a e 4a semanas

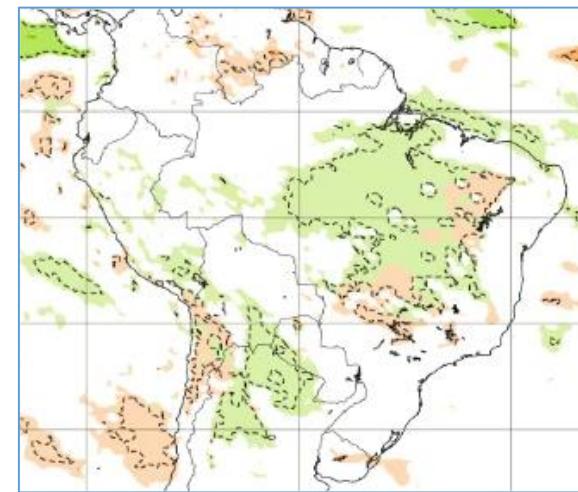
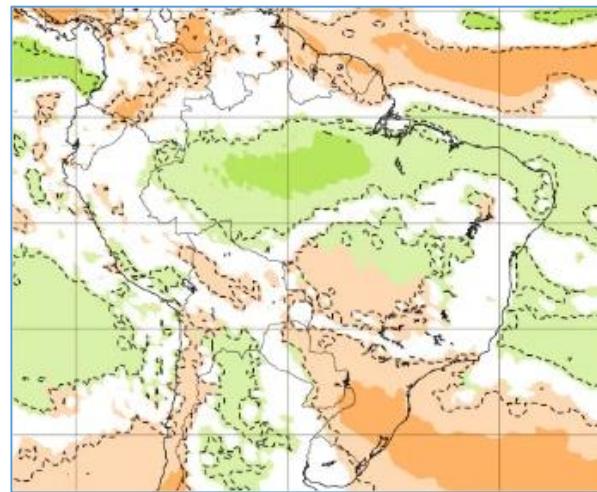
CFS/NOAA



19-26 Ago

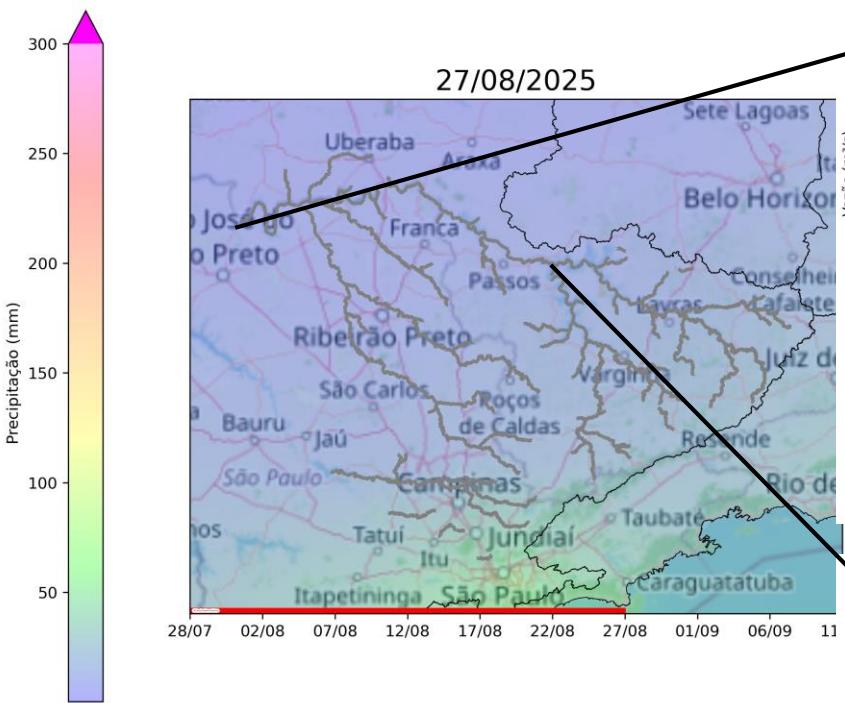


ECMWF

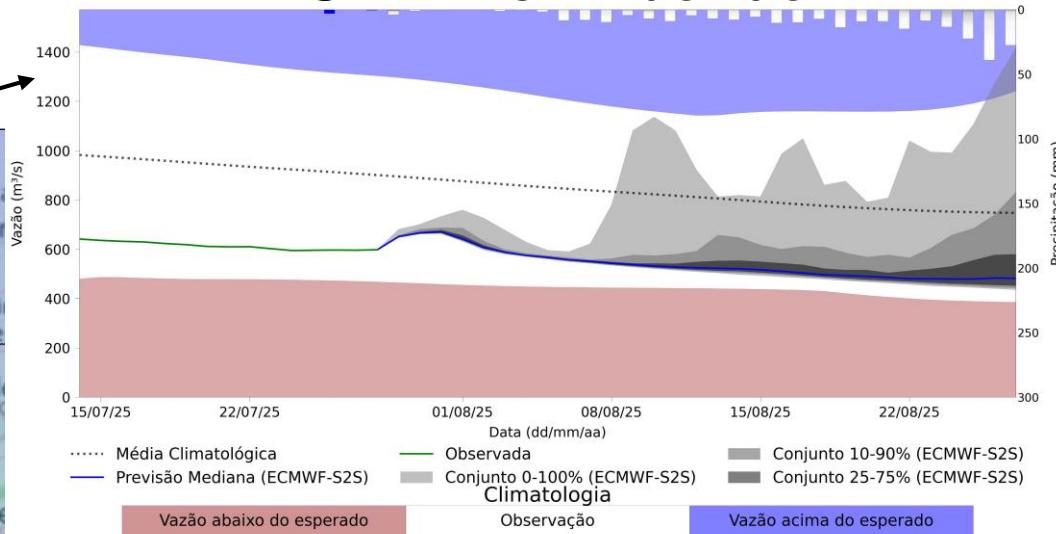


Previsão de vazão natural na Bacia do Rio Grande 30 dias (Modelo hidrológico MHD)

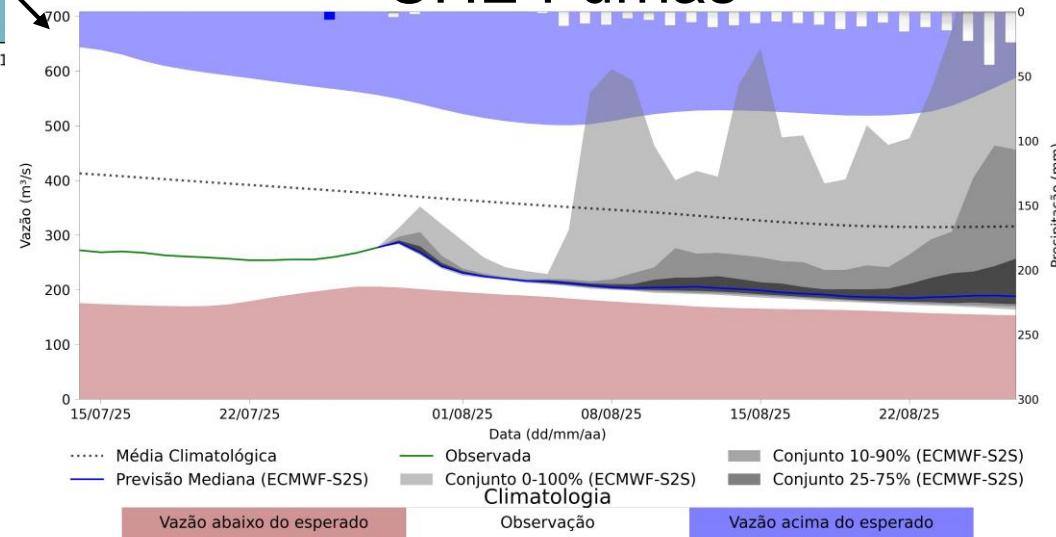
PREVISÃO: 28/07/25 a 27/08/25



UHE Marimbondo



UHE Furnas



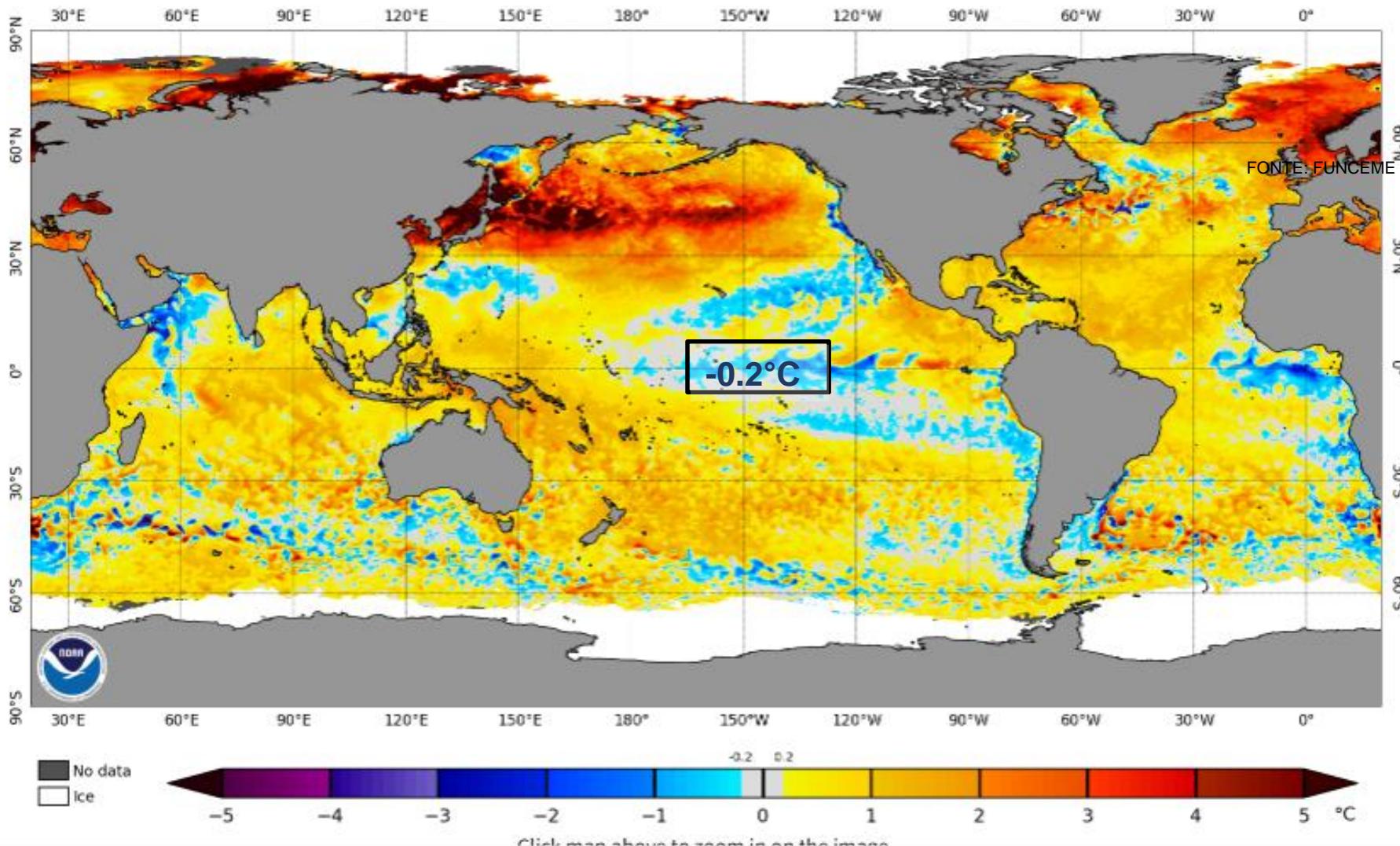
Fonte: Meteorologia (INMET/MERGE); Vazão (ANA/ONS)

MLT: 1993-2024

Previsão Meteorológica: ECMWF-S2S

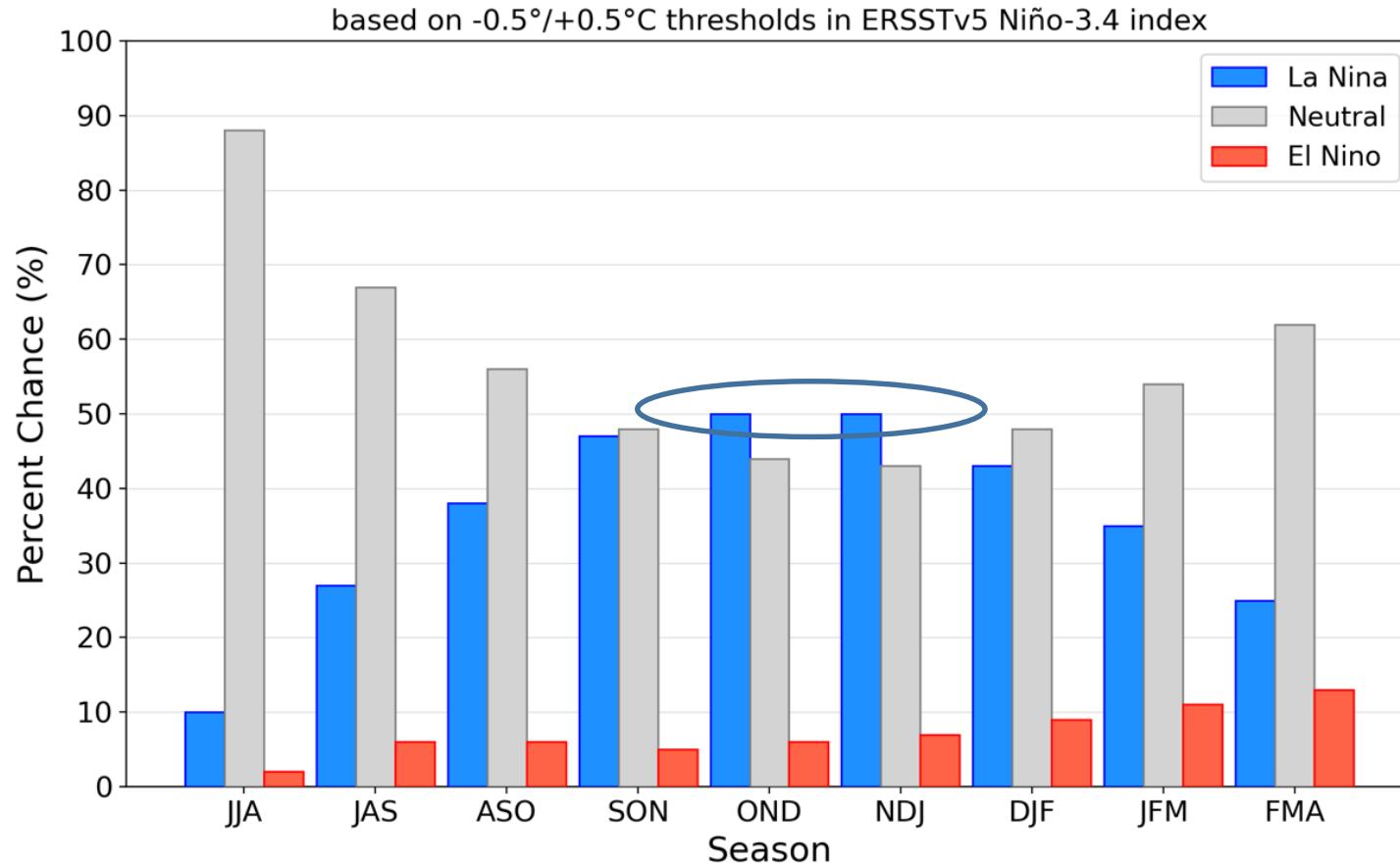
Status Atual: Neutralidade

NOAA Coral Reef Watch Daily 5km SST Anomalies (v3.1) 27 Jul 2025



Previsão do “ENSO”

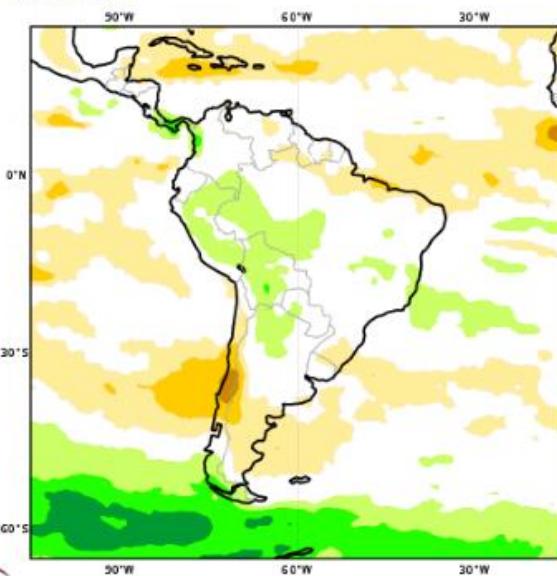
Official NOAA CPC ENSO Probabilities (issued July 2025)



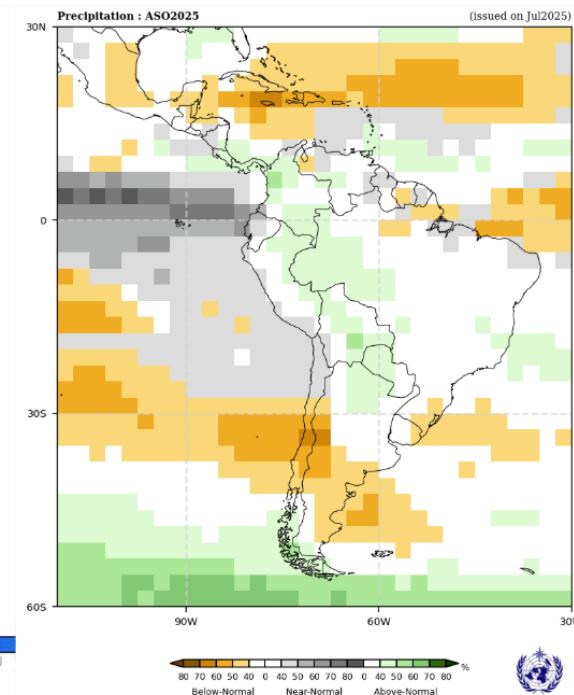
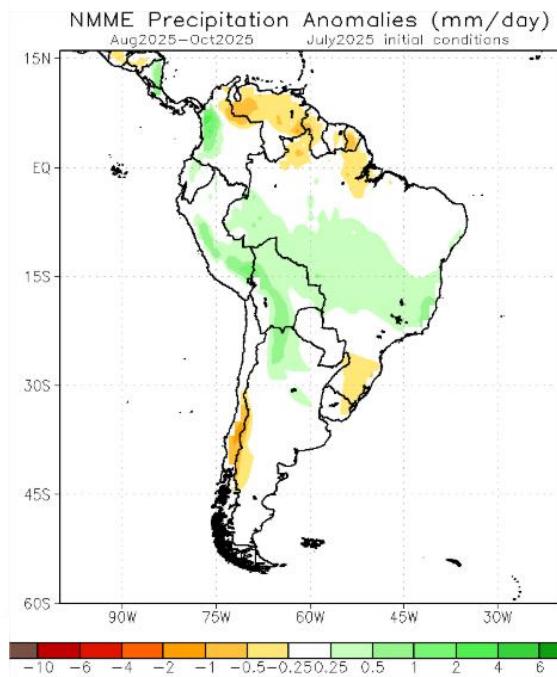
Previsão Sazonal de Chuva Multi-Modelo

Agosto-Setembro-Outubro

C3S multi-system seasonal forecast
Prob(most likely category of precipitation)
Nominal forecast start: 01/07/25
Unweighted mean



ASO 2025



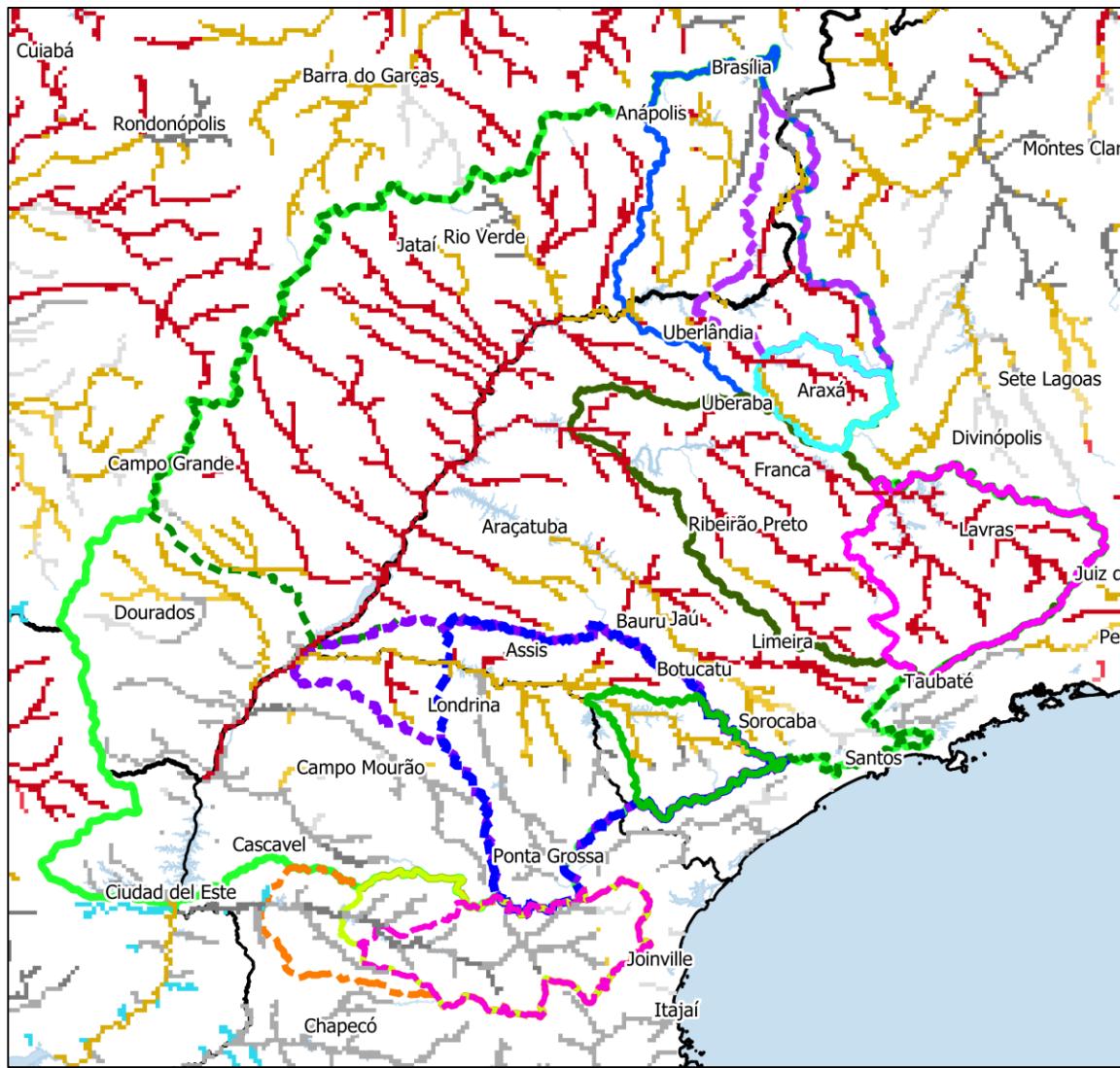
Modelos "Europeus"

Modelos Norte Americanos

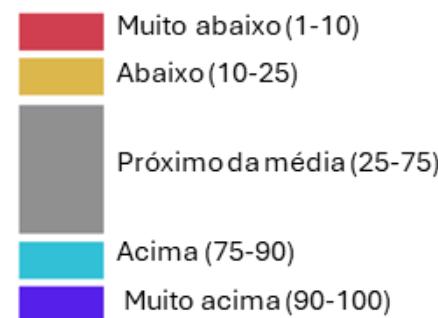
Modelos da WMO

Previsão Sub-sazonal (45 dias) para a Bacia do Paraná (Sistema Global de Previsão de Vazão - GloFAS)

Previsão: 30/07/2025 – 08/09/2025



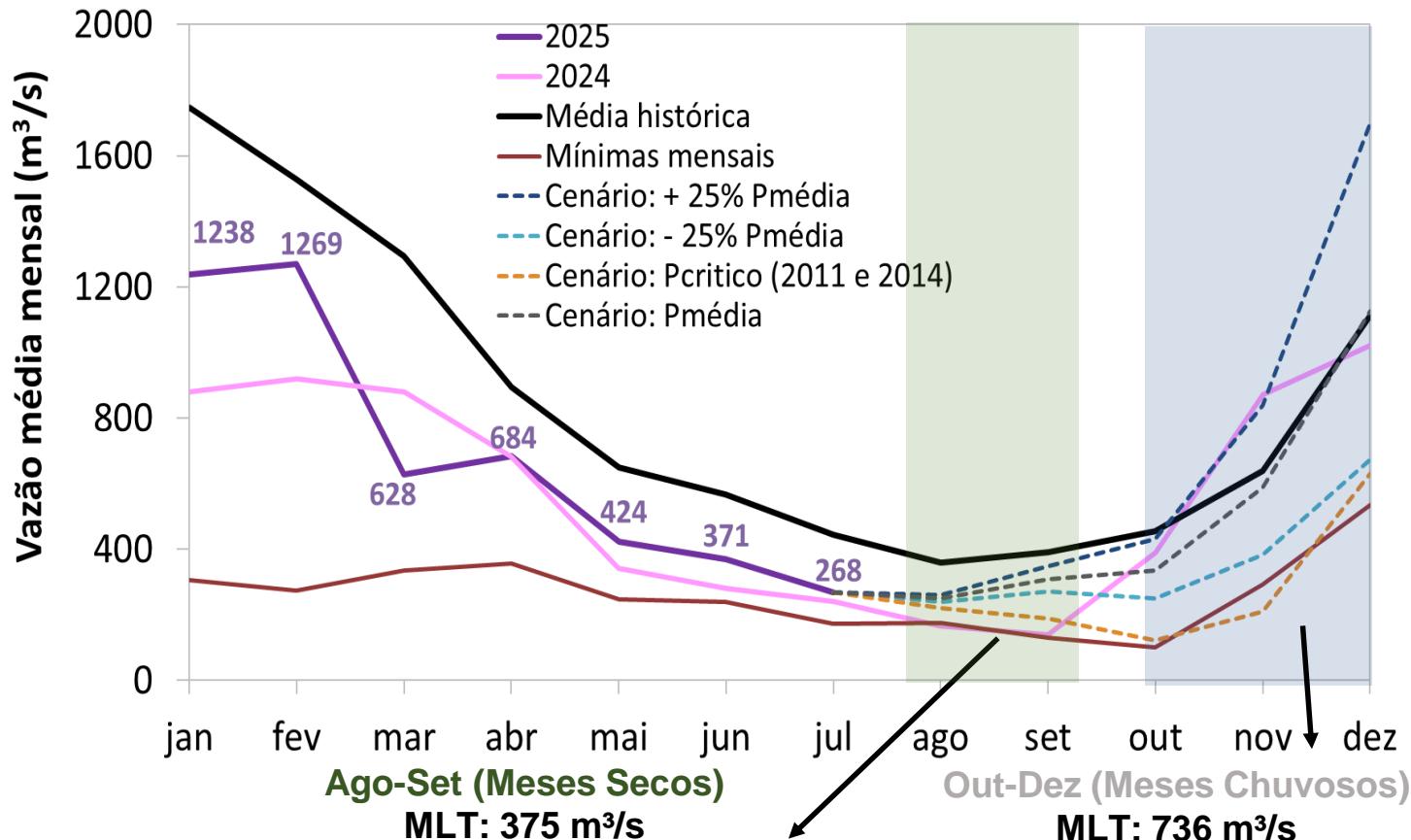
Categoria de anomalia para as vazões (percentil)



Fonte: Previsão Meteorológica: ECMWF

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

Furnas: Projeção de Vazão (modelo hidrológico PDM-CEMADEN)



| Vazão | % MLT | Vazão | % MLT |
|-------------------------------|------------|-------------------------------|-------------|
| 305 m^3/s | 81% | 989 m^3/s | 134% |
| 280 m^3/s | 75% | 683 m^3/s | 93% |
| 255 m^3/s | 68% | 436 m^3/s | 59% |
| 204 m^3/s | 54% | 321 m^3/s | 44% |