



CEMADEN

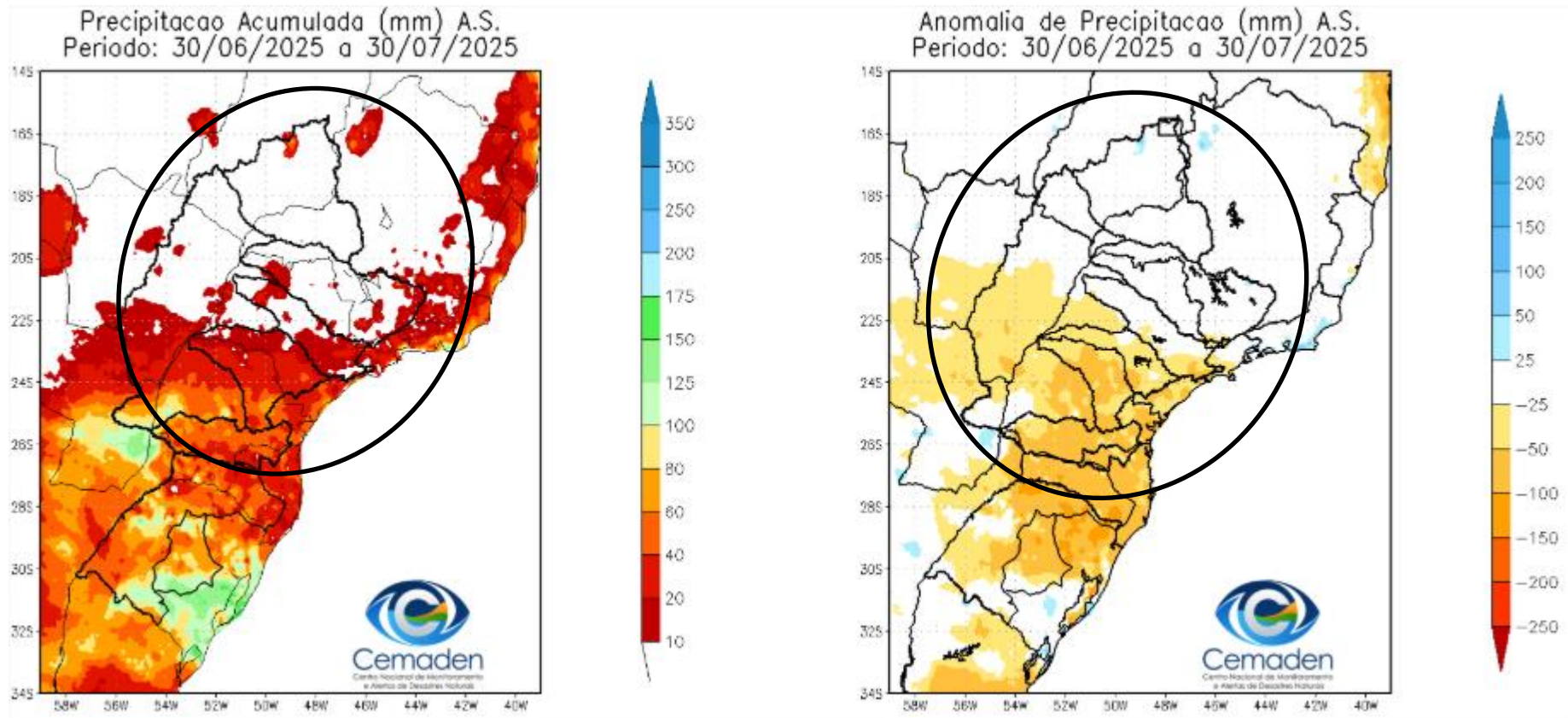
**Centro Nacional de Monitoramento e
Alertas de Desastres Naturais**

Monitoramento e Previsões para a Bacia do rio Paraná

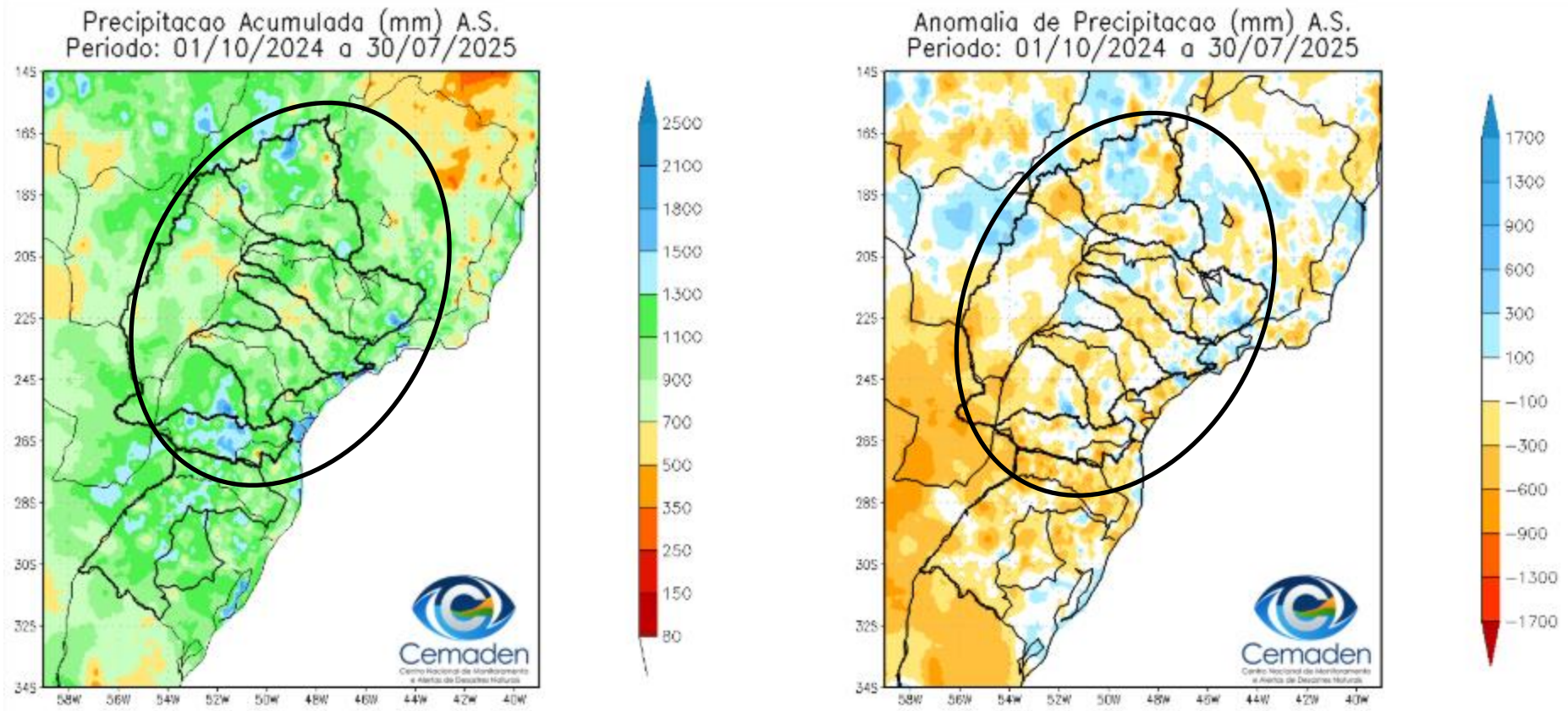
31 de Julho de 2025



Precipitação acumulada nos últimos 30 dias

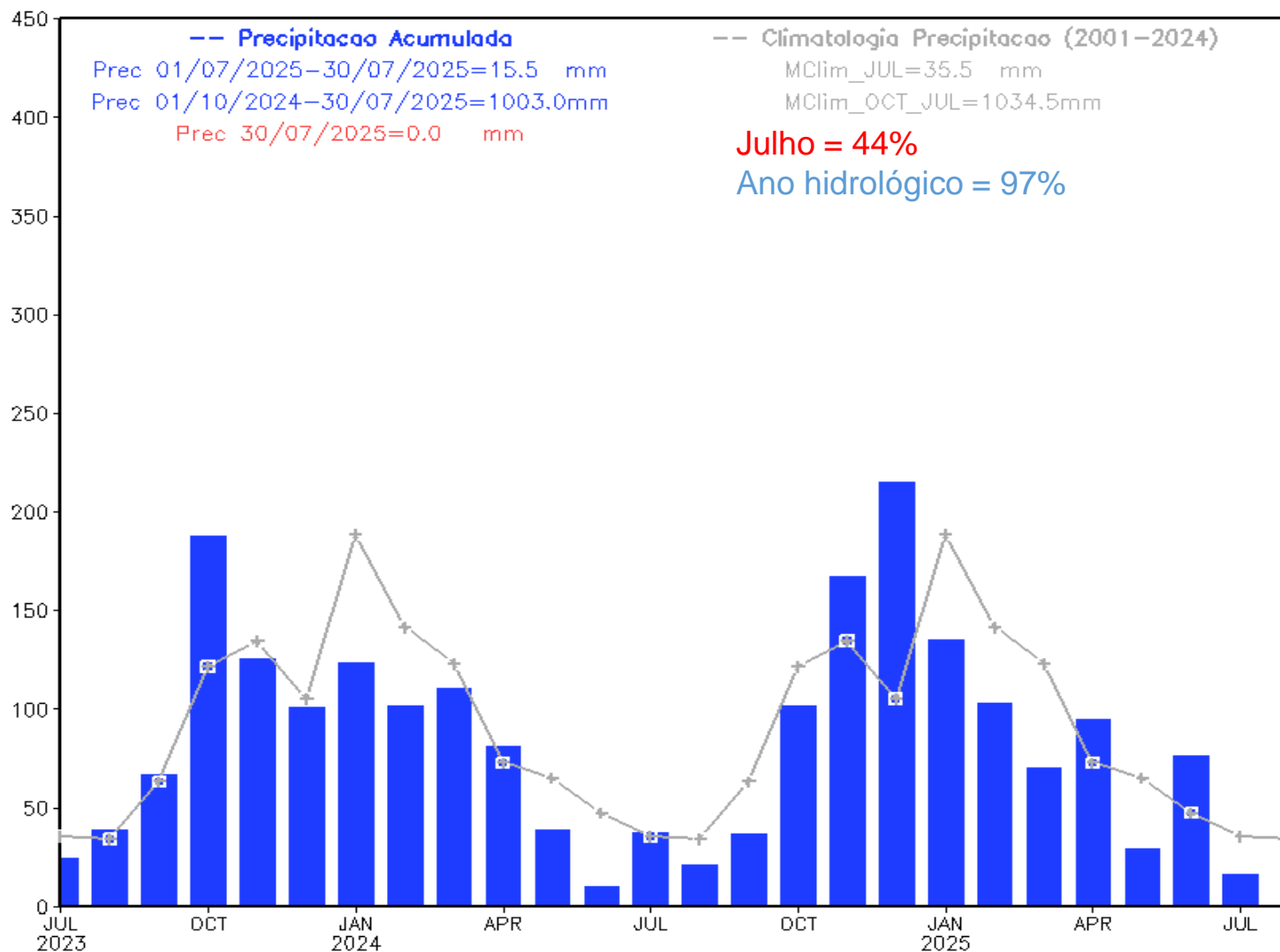


Precipitação acumulada no ano hidrológico 01/10/2024 a 24/04/2025

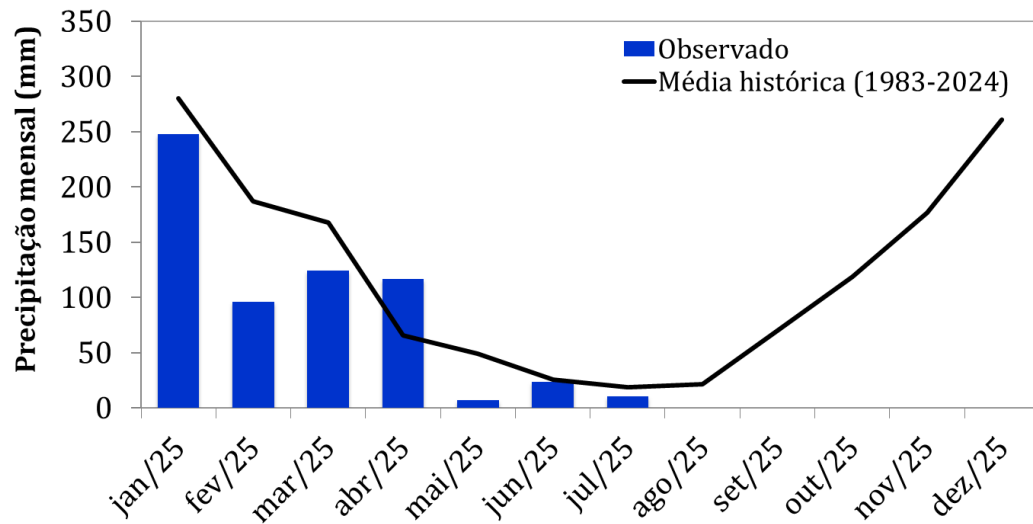


Precipitação acumulada nos últimos 24 meses

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**)

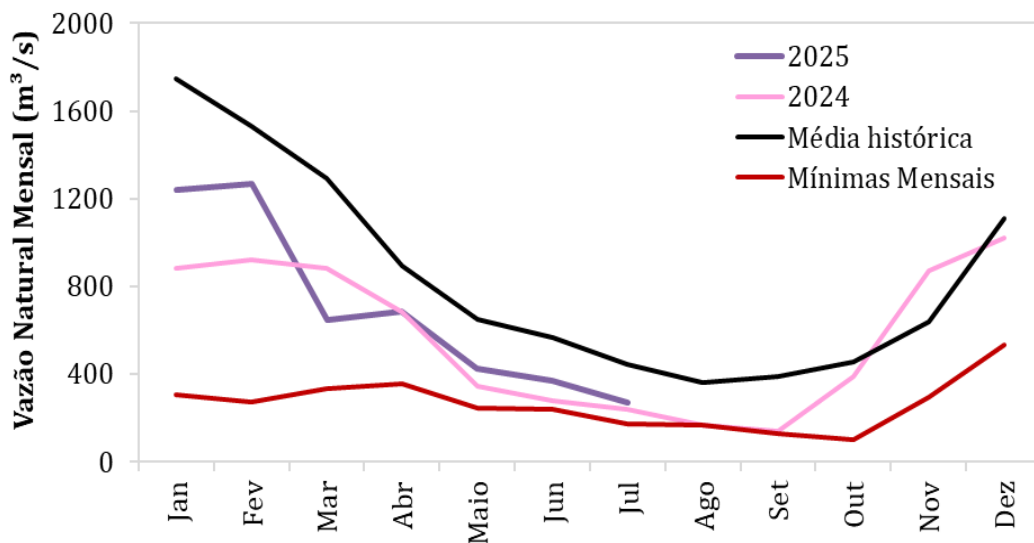
Estação Seca - Abr a Set – 250 mm

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**)

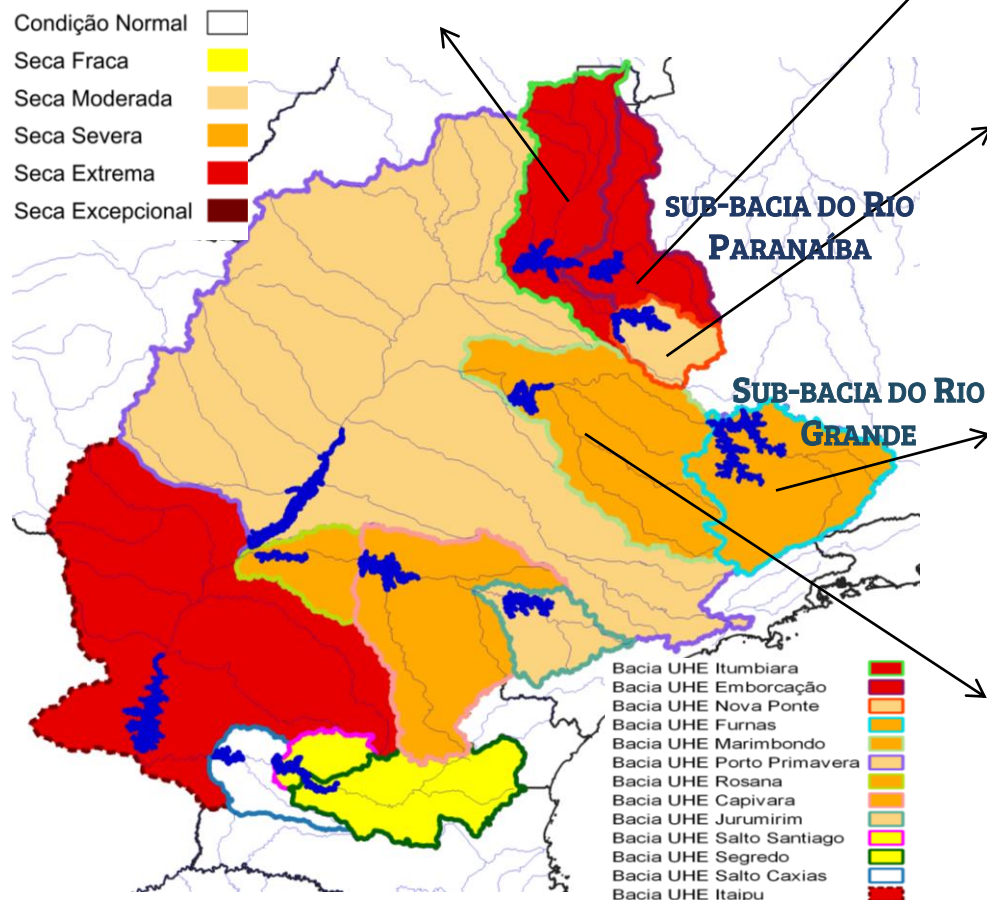
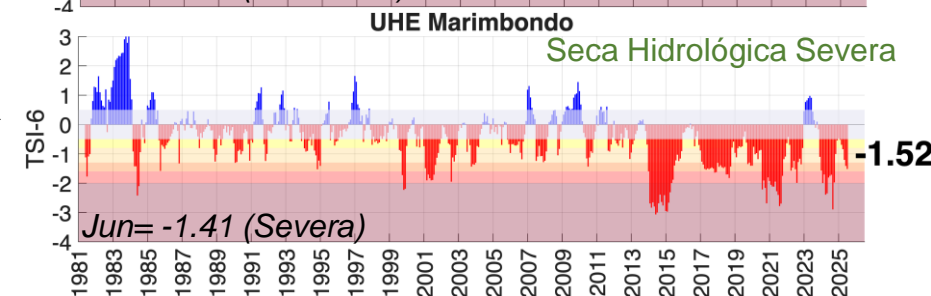
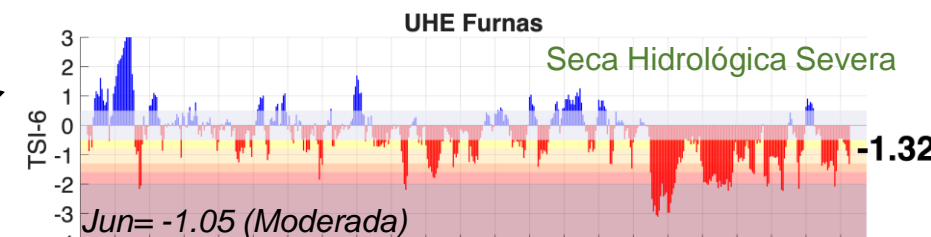
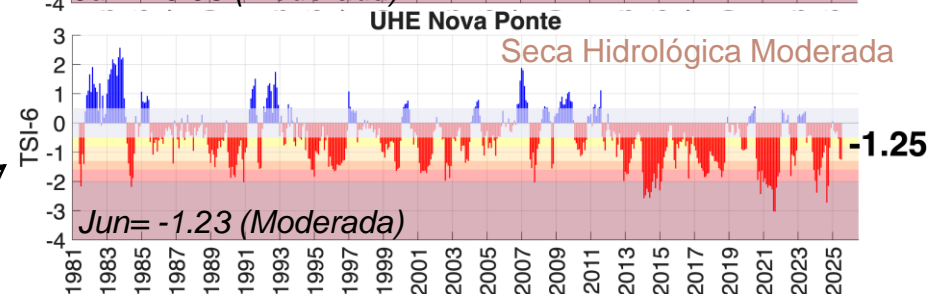
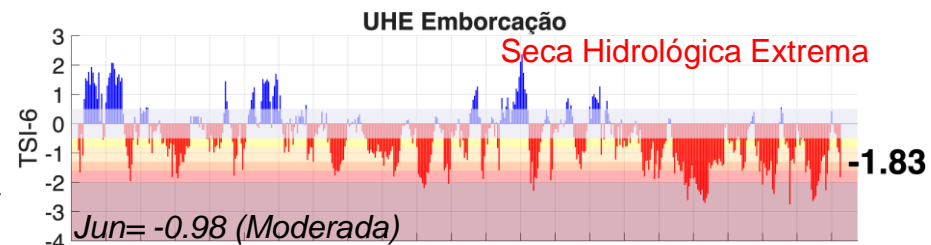
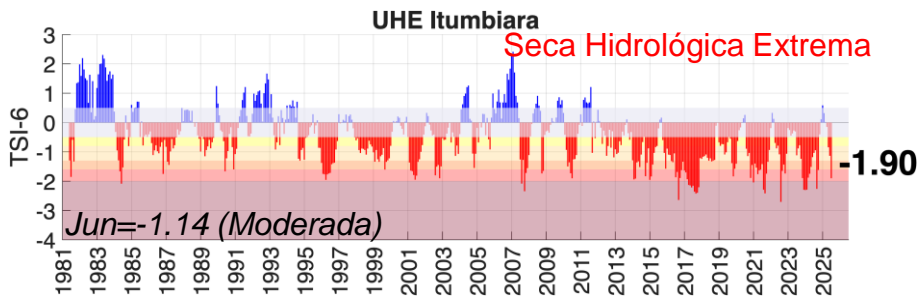
29/jul/25: 176 m³/s (**40% da MLT**)

***Até 29/07/2025*

BACIA DO RIO PARANÁ

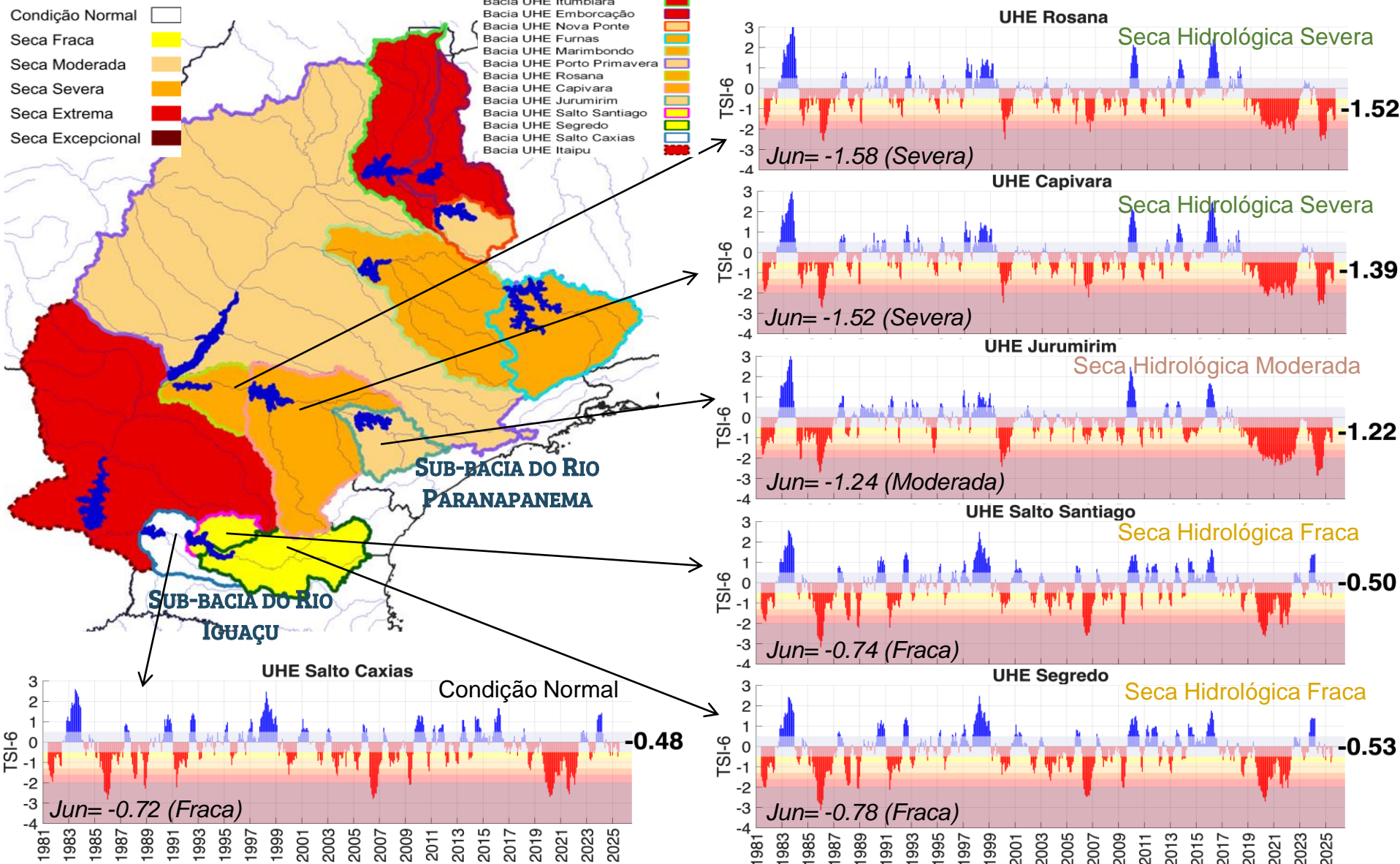
Índice de Seca Bivariado (Chuva-Vazão) – TSI 6

Julho/2025



BACIA DO RIO PARANÁ

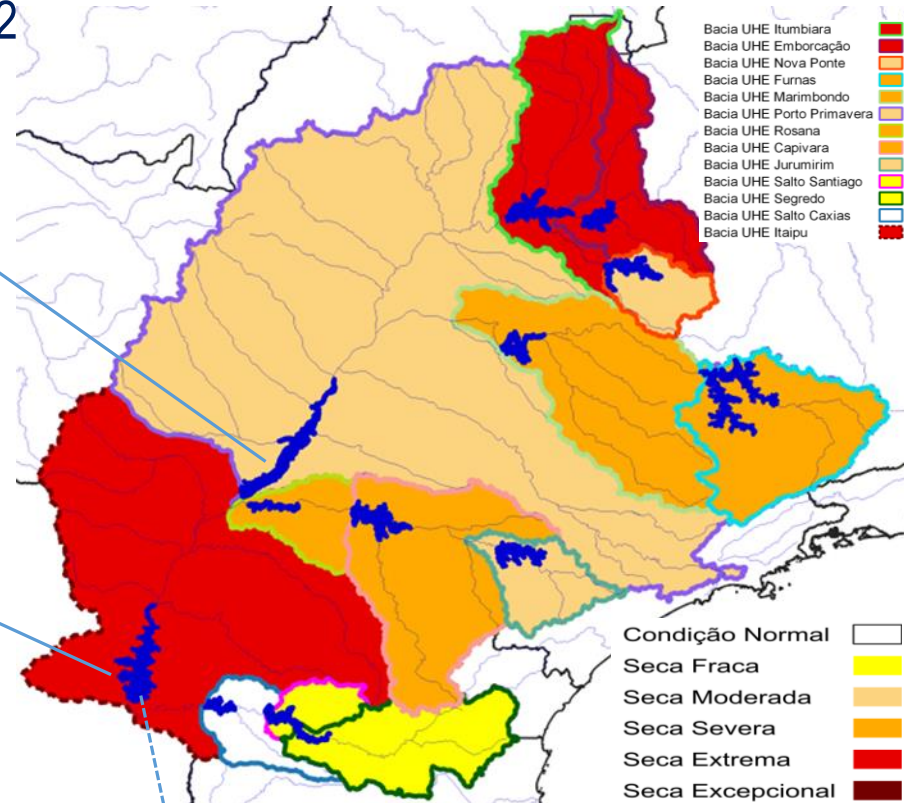
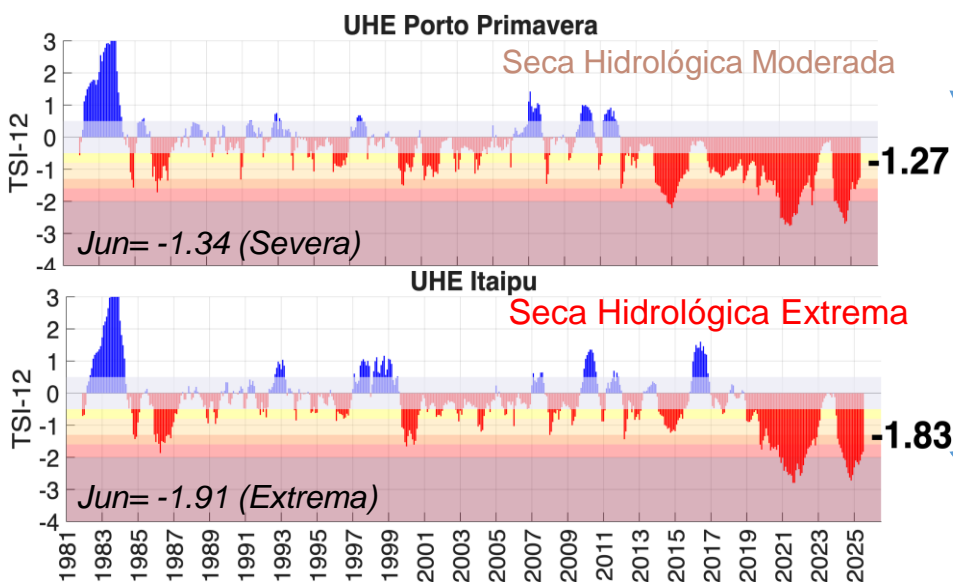
Índice de Seca Bivariado (Chuva-Vazão) – TSI 6



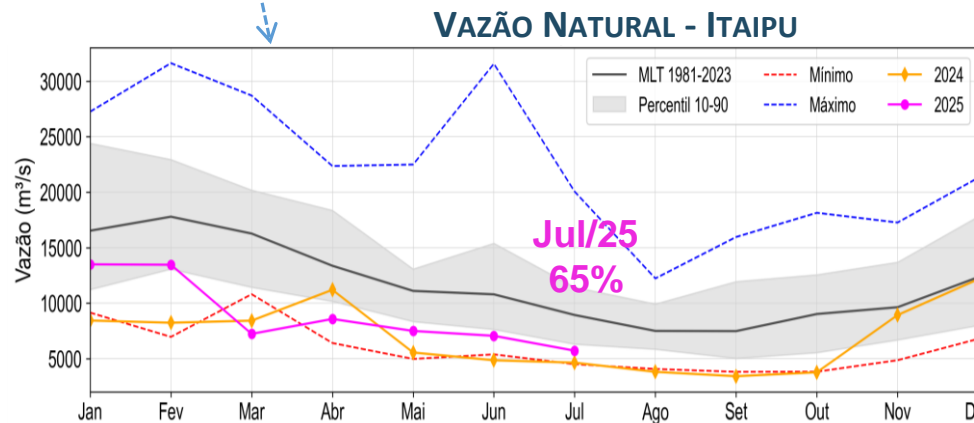
BACIA DO RIO PARANÁ

Julho/2025

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



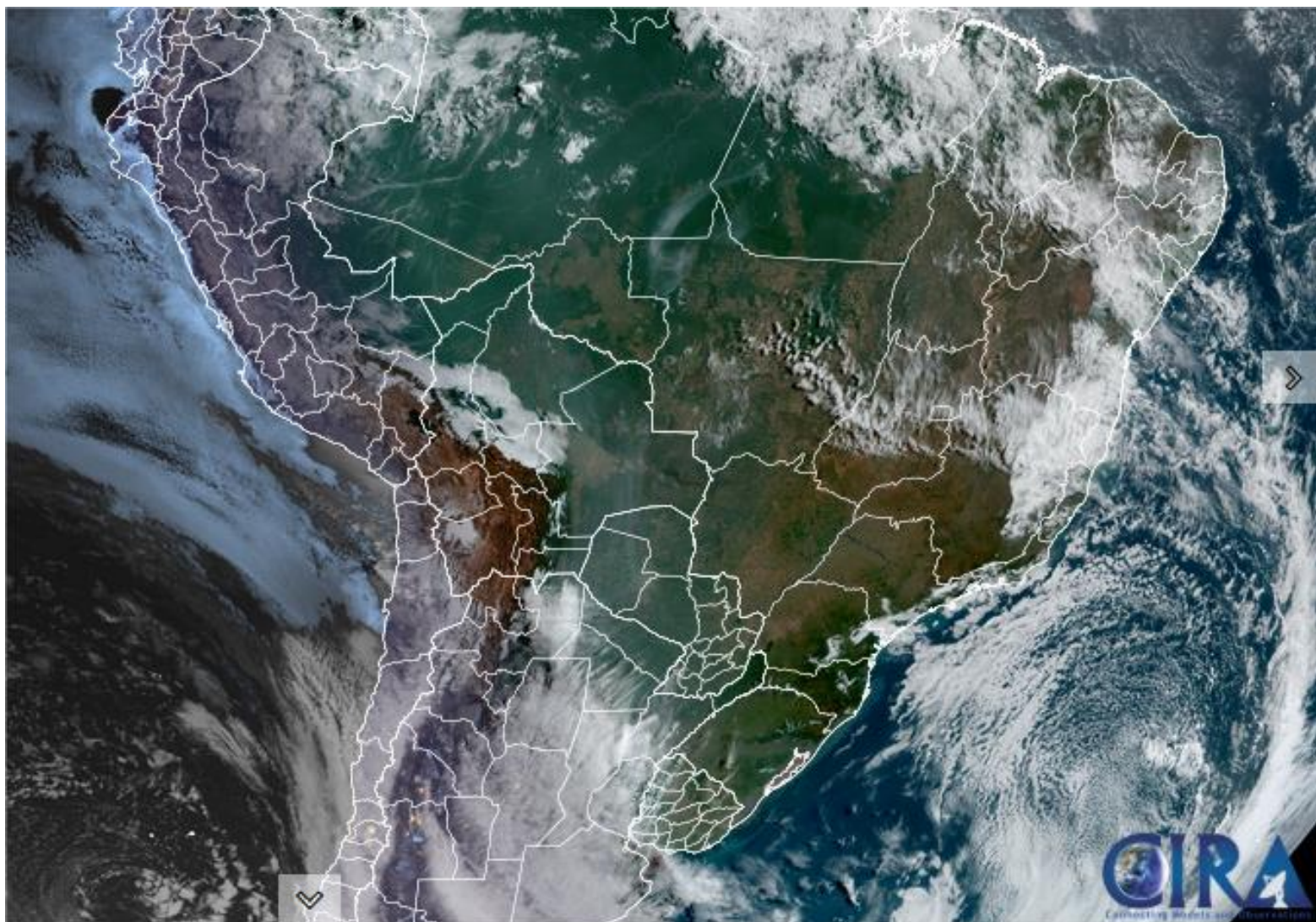
Série de dados = Jan/1981- Julho/2025



Fonte: CEMADEN/MCTI

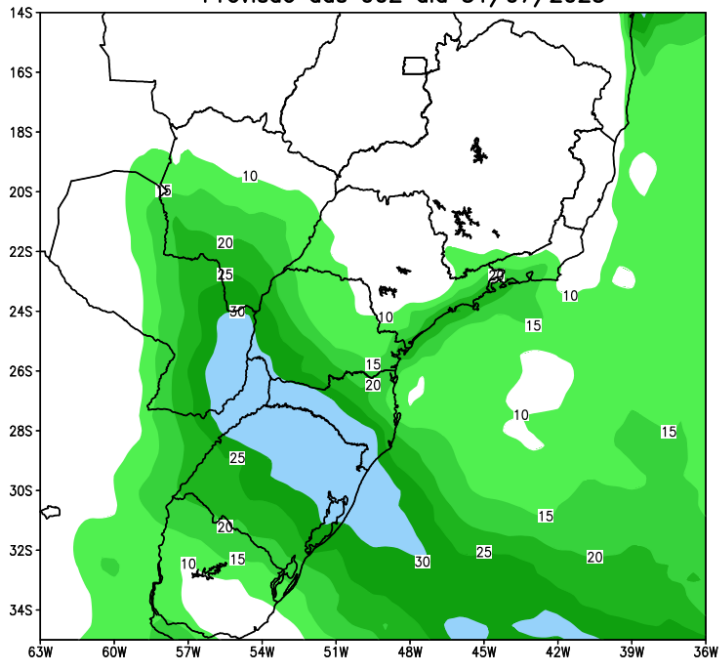
Dados: Precipitação (CHIRPS) e Vazão (ONS e ANA)

Situação meteorológica atual

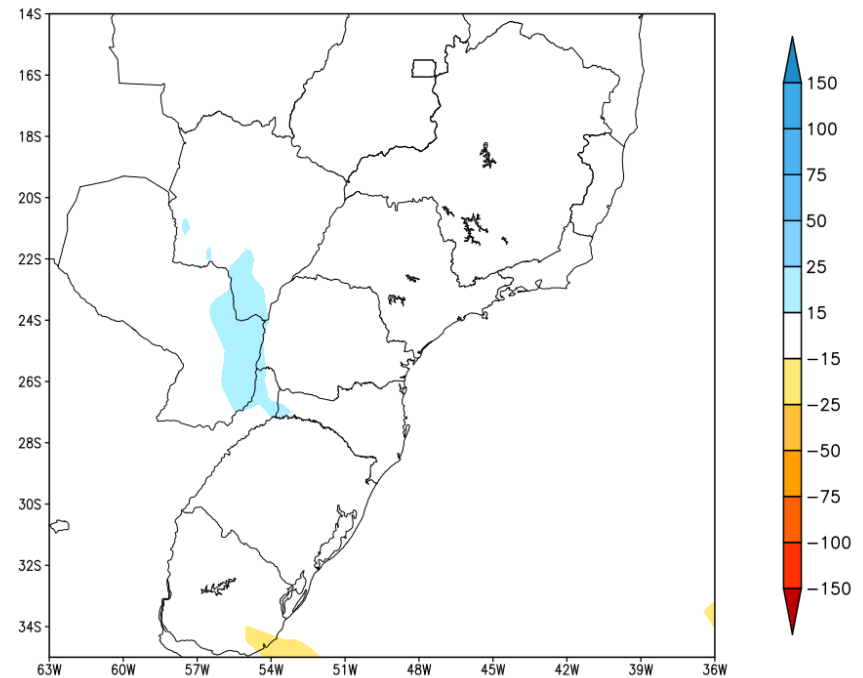


Previsão de chuva para os próximos 7 dias

GEFS / BRASIL_SUL
Precipitacao acumulada 1aSem (mm)
Previsao das 00Z dia 31/07/2025



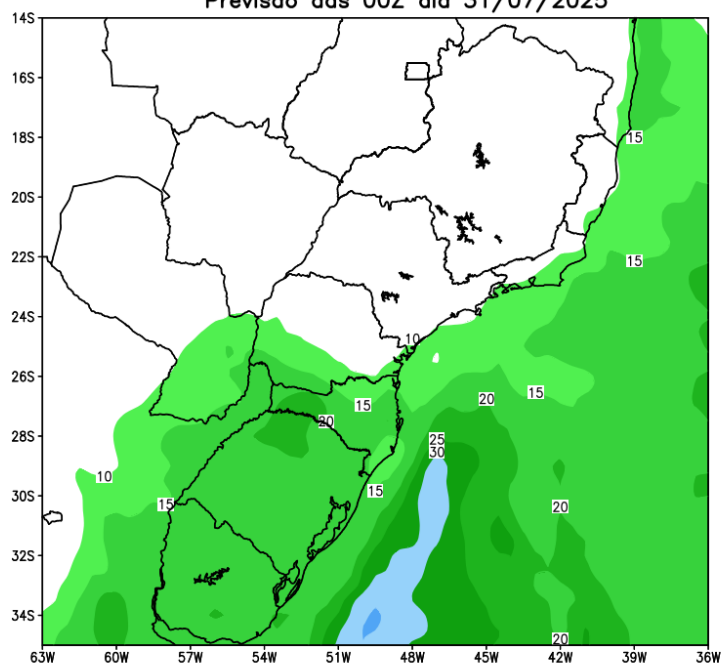
Anomalia de Precipitacao BR_SUL (mm)
Periodo: 2025073100 a 2025080700



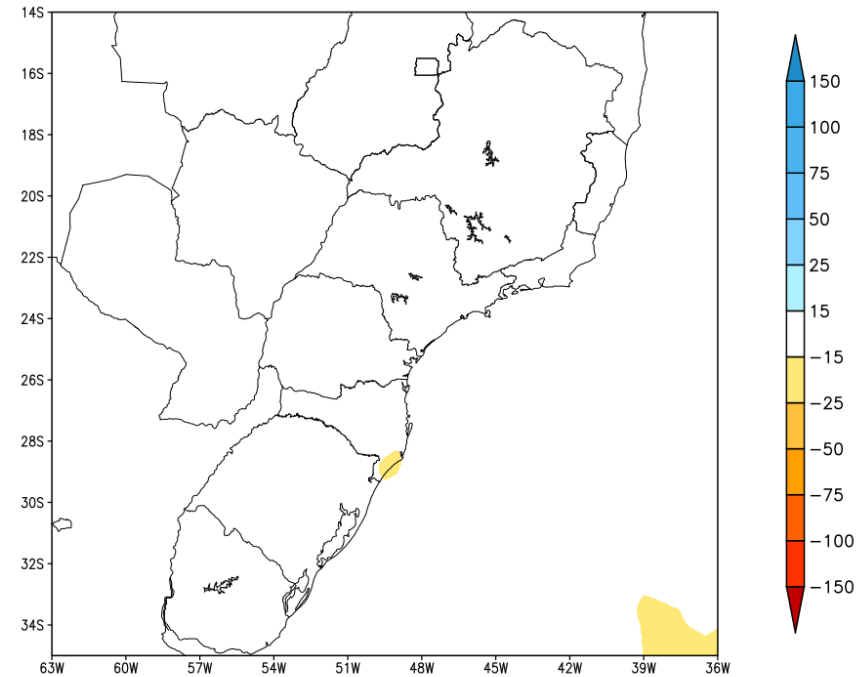
Fonte: GEFS/NOAA

Tendência para a 2ª Semana

GEFS / BRASIL_SUL
Precipitacao acumulada 2aSem (mm)
Previsao das 00Z dia 31/07/2025

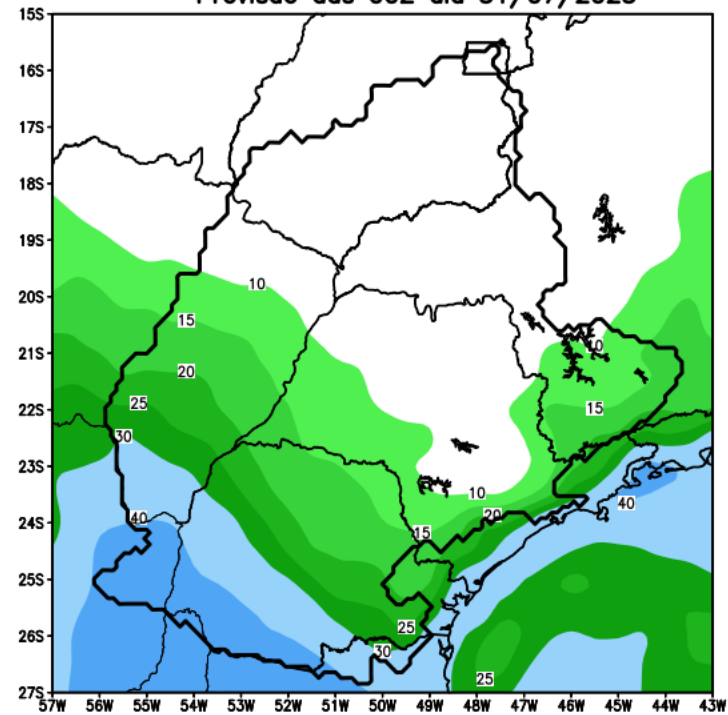


Anomalia de Precipitacao BR_SUL (mm)
Periodo: 2025080800 a 2025081400

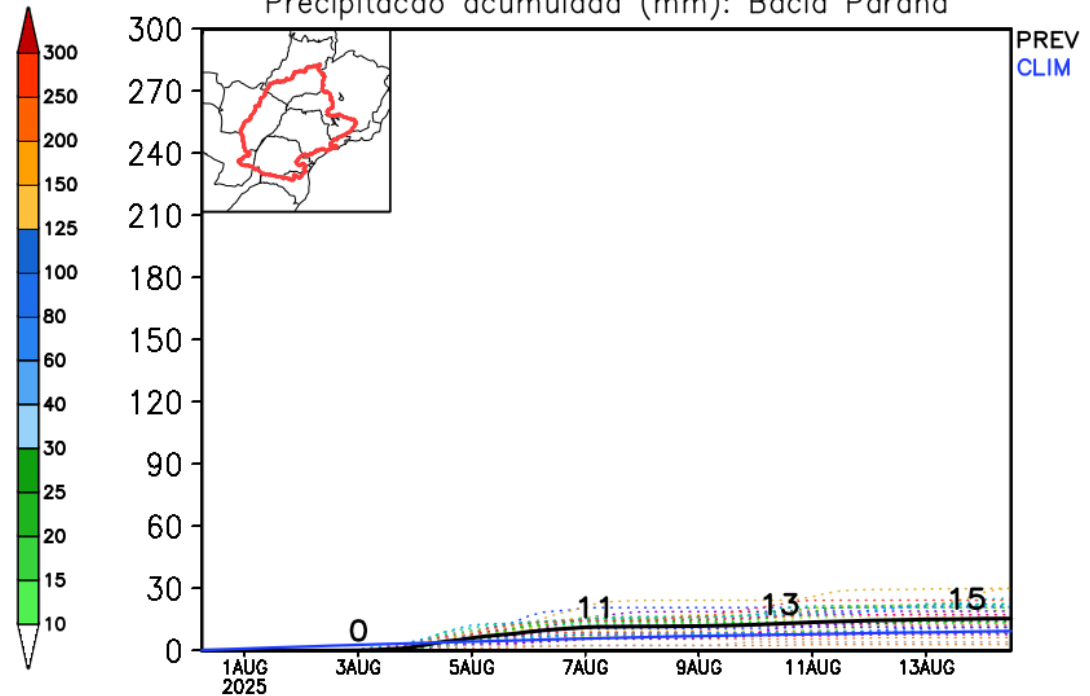


Previsão de chuva para os próximos 14 dias

GEFS / Bacia do Parana
Precipitacao acumulada em 14 dias (mm)
Previsao das 00Z dia 31/07/2025



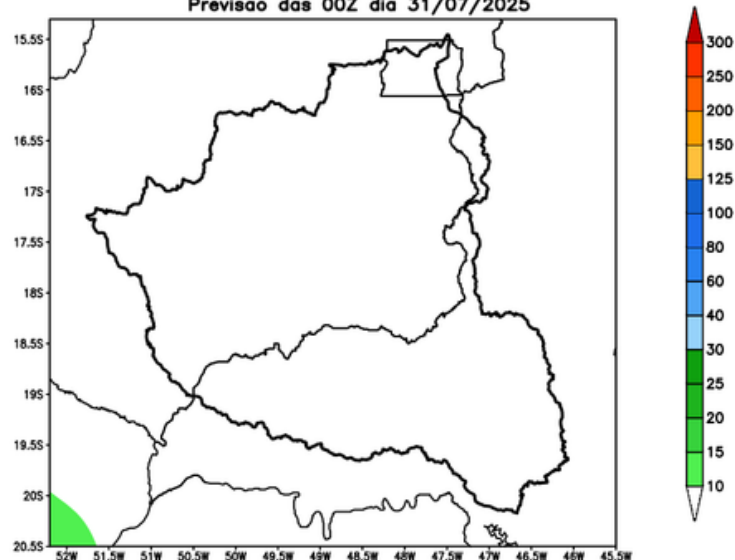
Precipitacao acumulada (mm): Bacia Parana



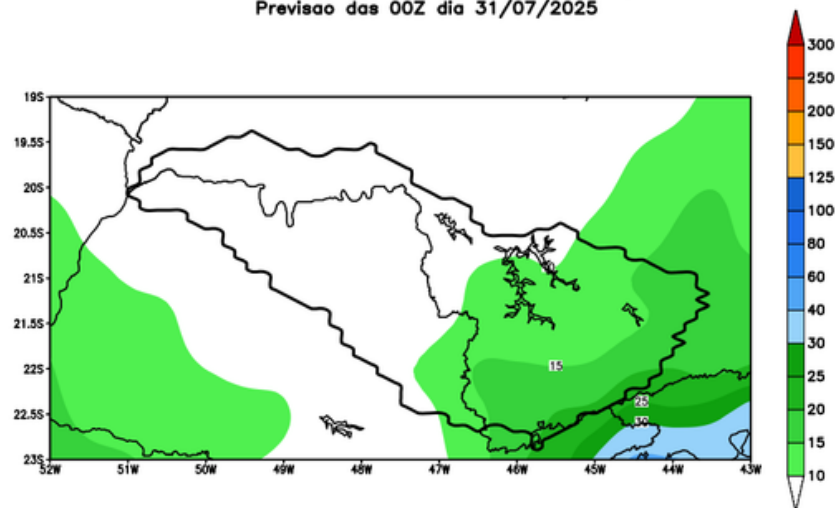
Fonte: GEFS/NOAA

Bacia do rios Paranaíba e Grande

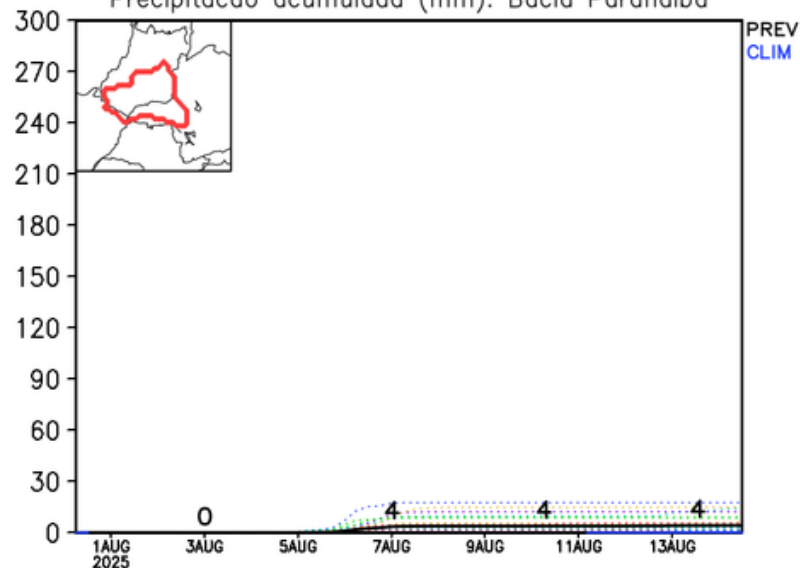
GEFS / Bacia do Rio Paranaíba
Precipitacao acumulada em 14 dias (mm)
Previsao das 00Z dia 31/07/2025



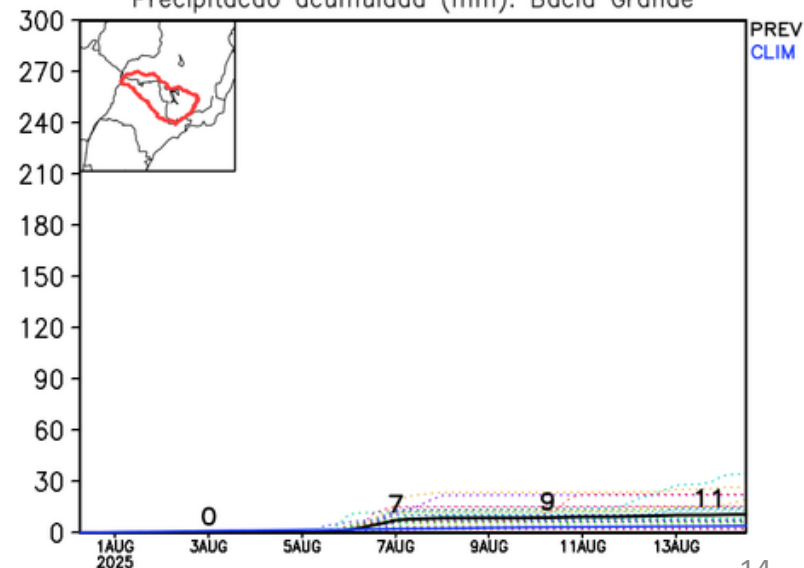
GEFS / Bacia do Rio Grande
Precipitacao acumulada em 14 dias (mm)
Previsao das 00Z dia 31/07/2025



Precipitacao acumulada (mm): Bacia Paranaiba

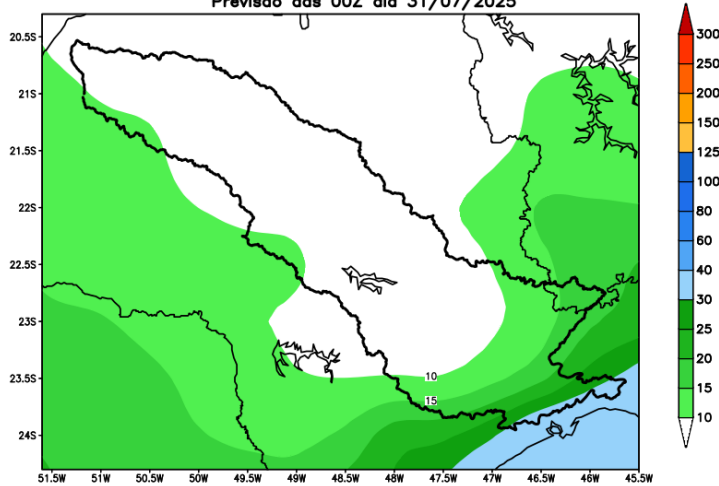


Precipitacao acumulada (mm): Bacia Grande

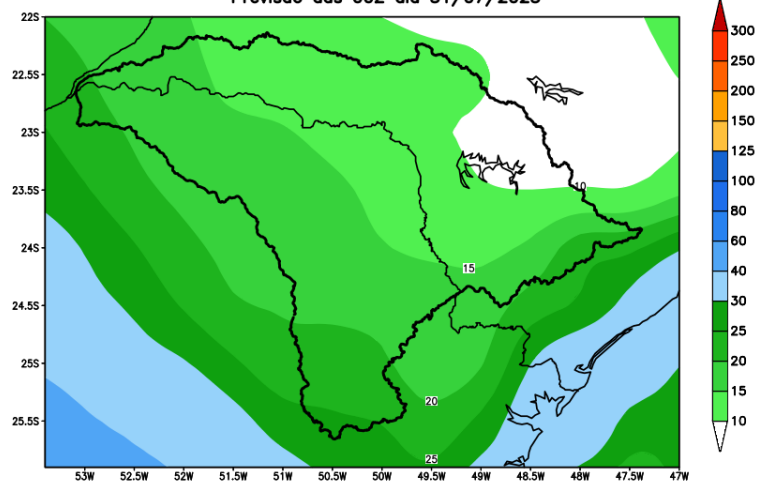


Bacia do rios Tietê e Paranapanema

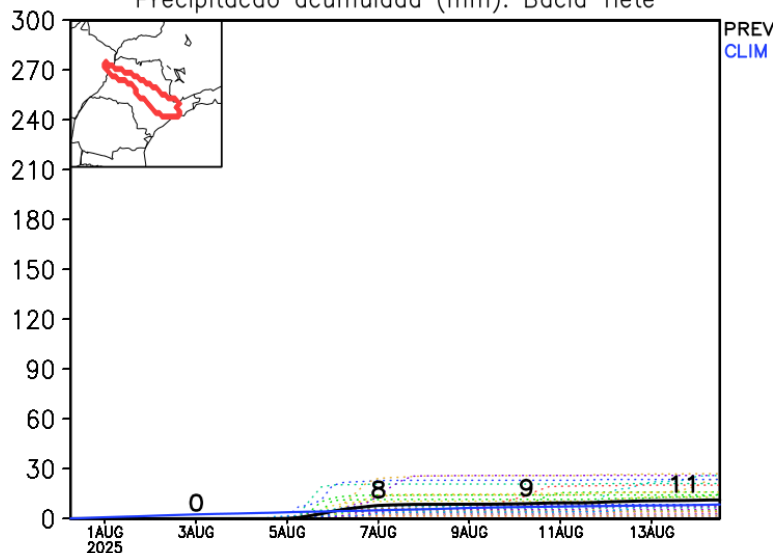
GEFS / Bacia do Rio Tietê
Precipitação acumulada em 14 dias (mm)
Previsão das 00Z dia 31/07/2025



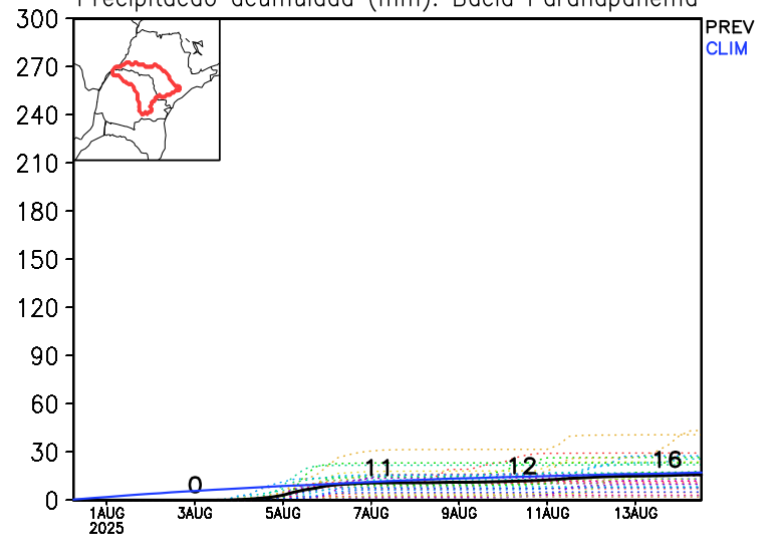
GEFS / Bacia do Rio Paranapanema
Precipitação acumulada em 14 dias (mm)
Previsão das 00Z dia 31/07/2025



Precipitação acumulada (mm): Bacia Tietê

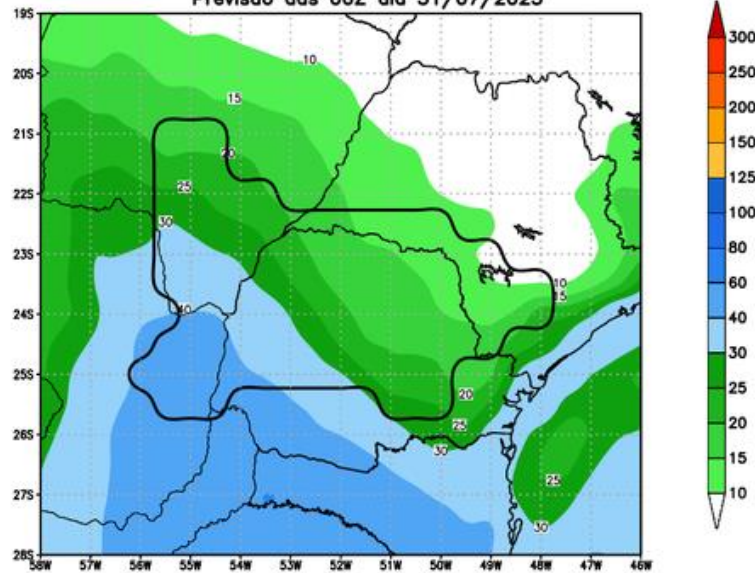


Precipitação acumulada (mm): Bacia Paranapanema

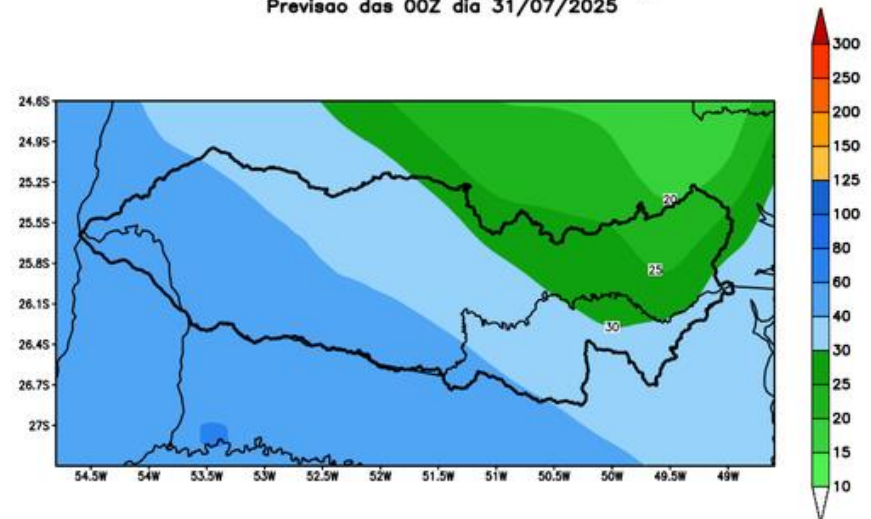


Bacia do Itaipu e Iguaçu

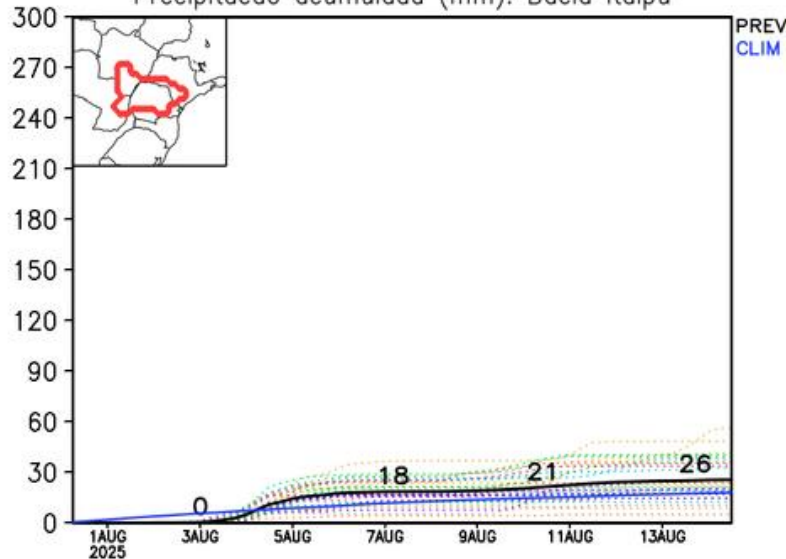
GEFS / Itaipu
Precipitacao acumulada em 14 dias (mm)
Previsao das 00Z dia 31/07/2025



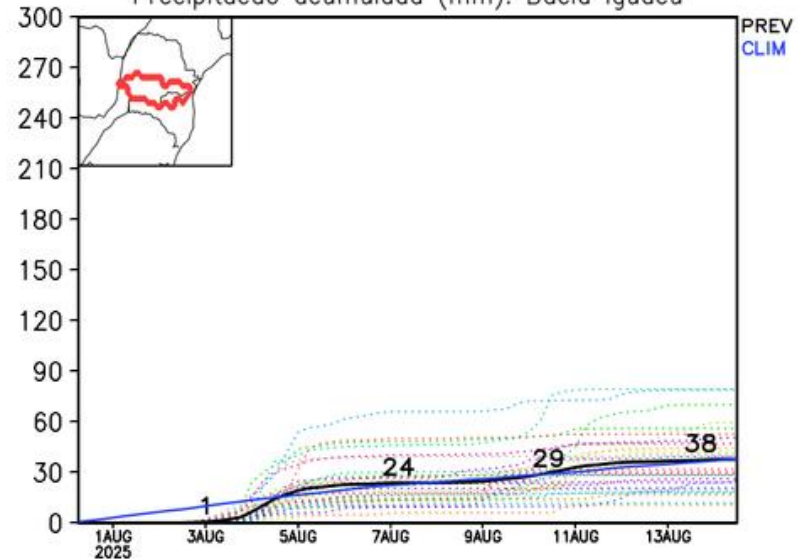
GEFS / Bacia do Rio Iguaçu
Precipitacao acumulada em 14 dias (mm)
Previsao das 00Z dia 31/07/2025



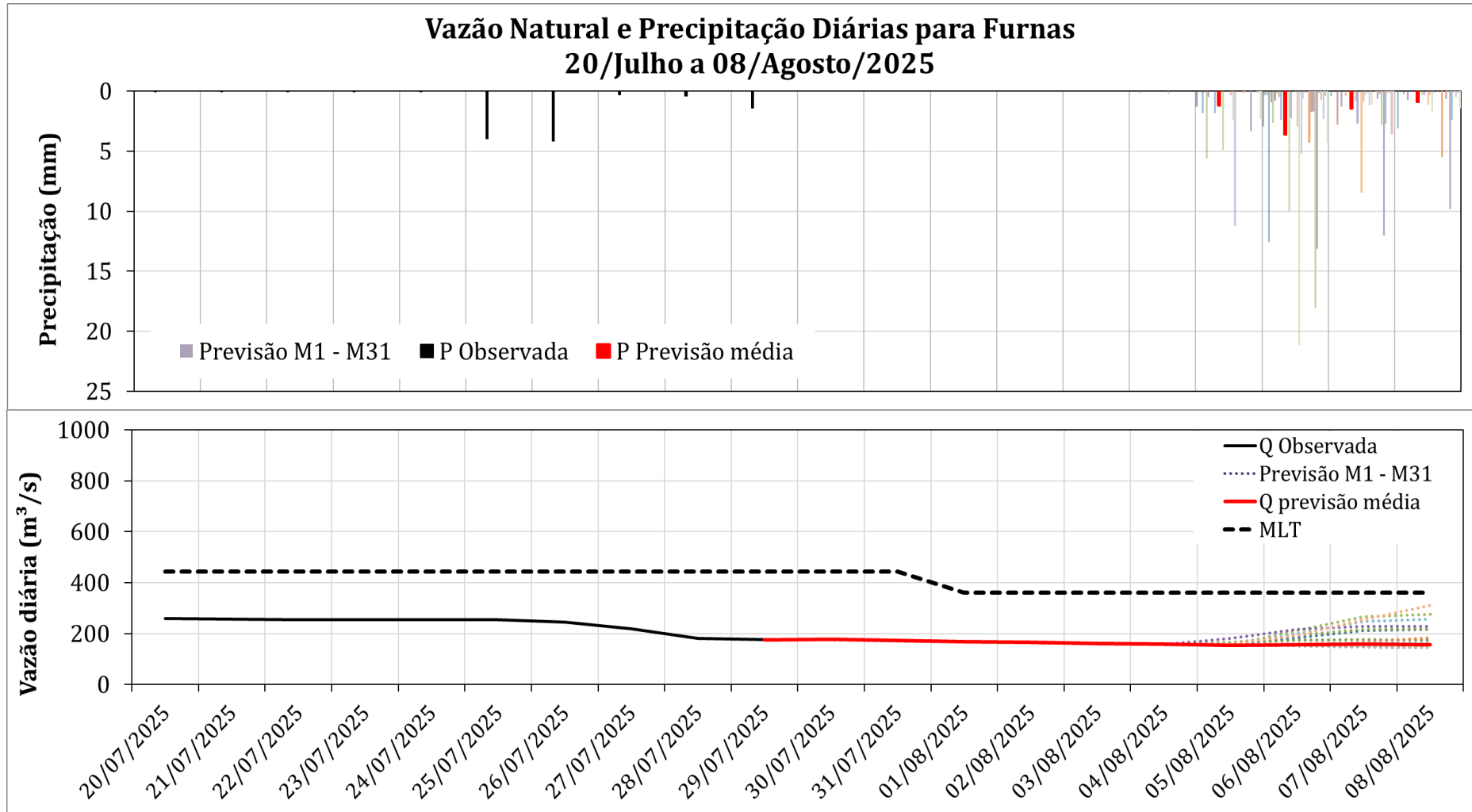
Precipitacao acumulada (mm): Bacia Itaipu



Precipitacao acumulada (mm): Bacia Iguaçu



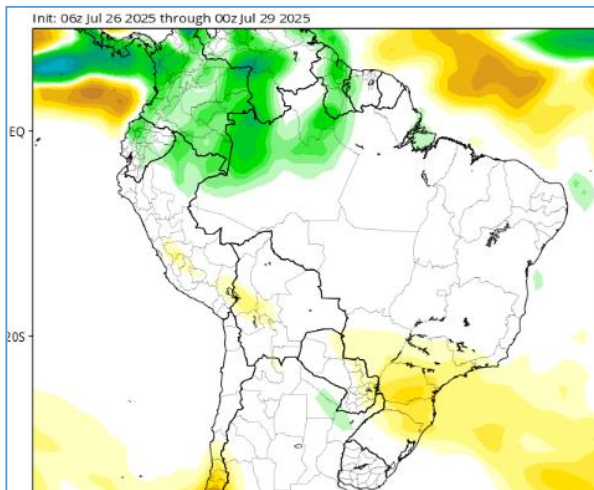
Furnas: Previsão de Vazão (modelo hidrológico PDM-CEMADEN)



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

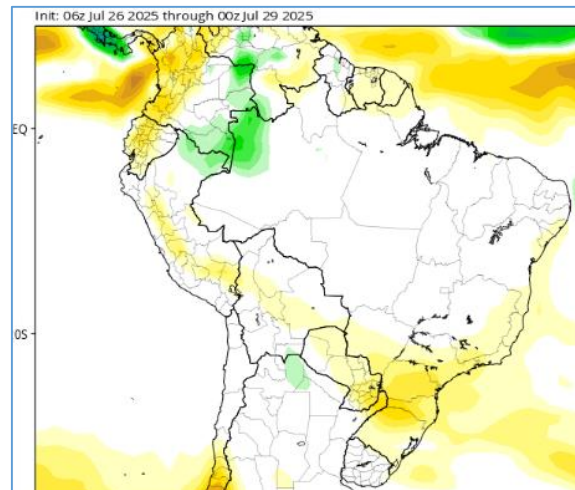
Tendência 3a e 4a semanas

12-19 Ago

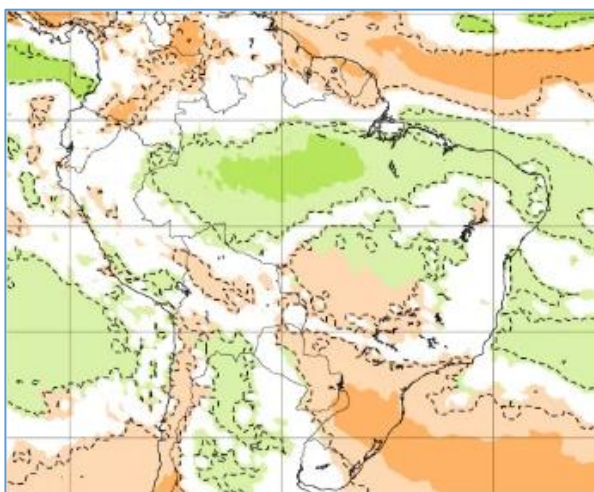


CFS/NOAA

19-26 Ago

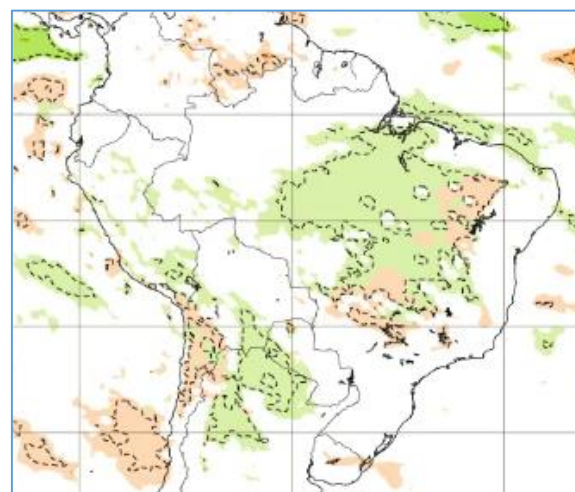


11-18 Ago



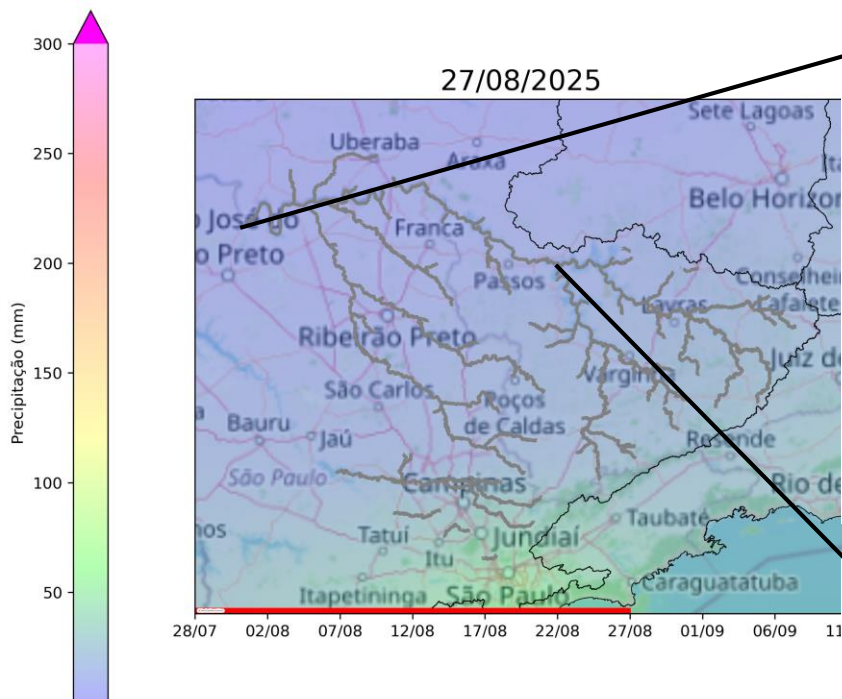
ECMWF

18-25 Ago

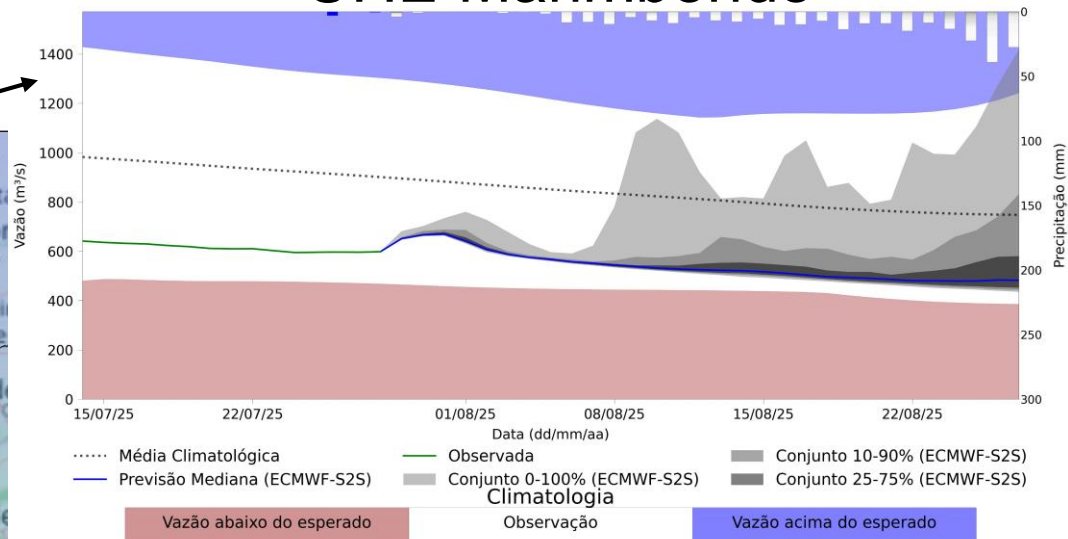


Previsão de vazão natural na Bacia do Rio Grande 30 dias (Modelo hidrológico MHD)

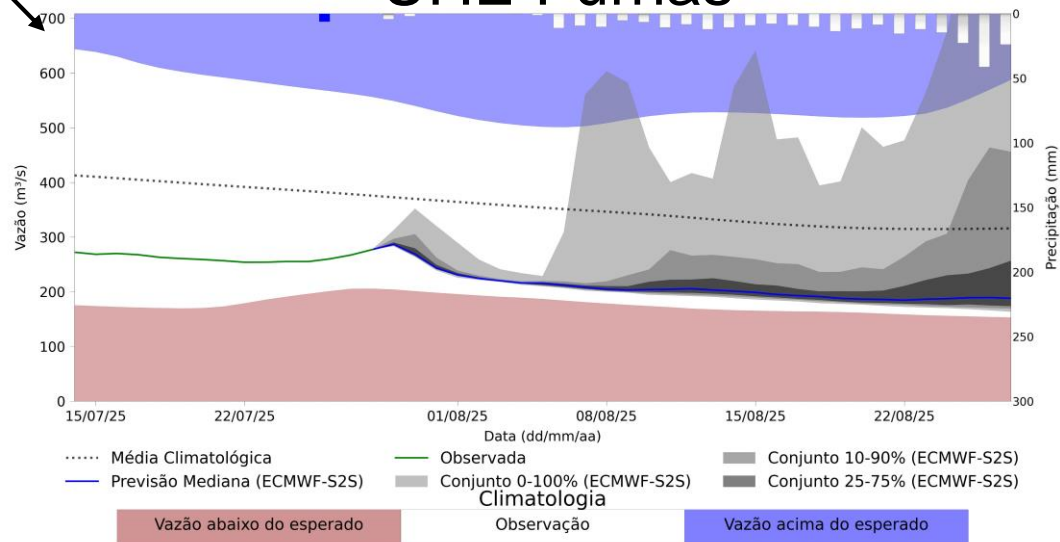
PREVISÃO: 28/07/25 a 27/08/25



UHE Marimbondo



UHE Furnas



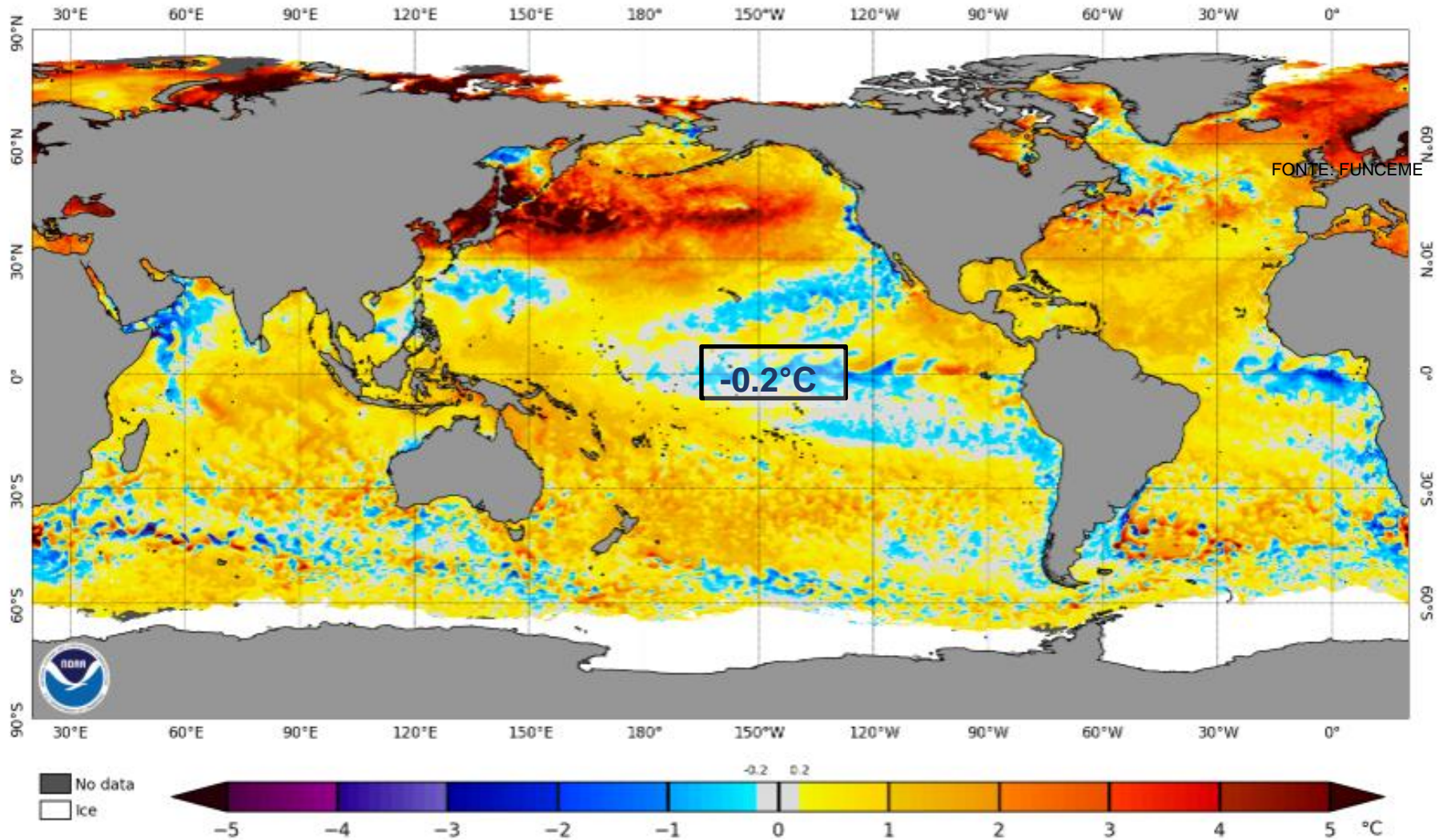
Fonte: Meteorologia (INMET/MERGE); Vazão (ANA/ONS)

MLT: 1993-2024

Previsão Meteorológica: ECMWF-S2S

Status Atual: **Neutralidade**

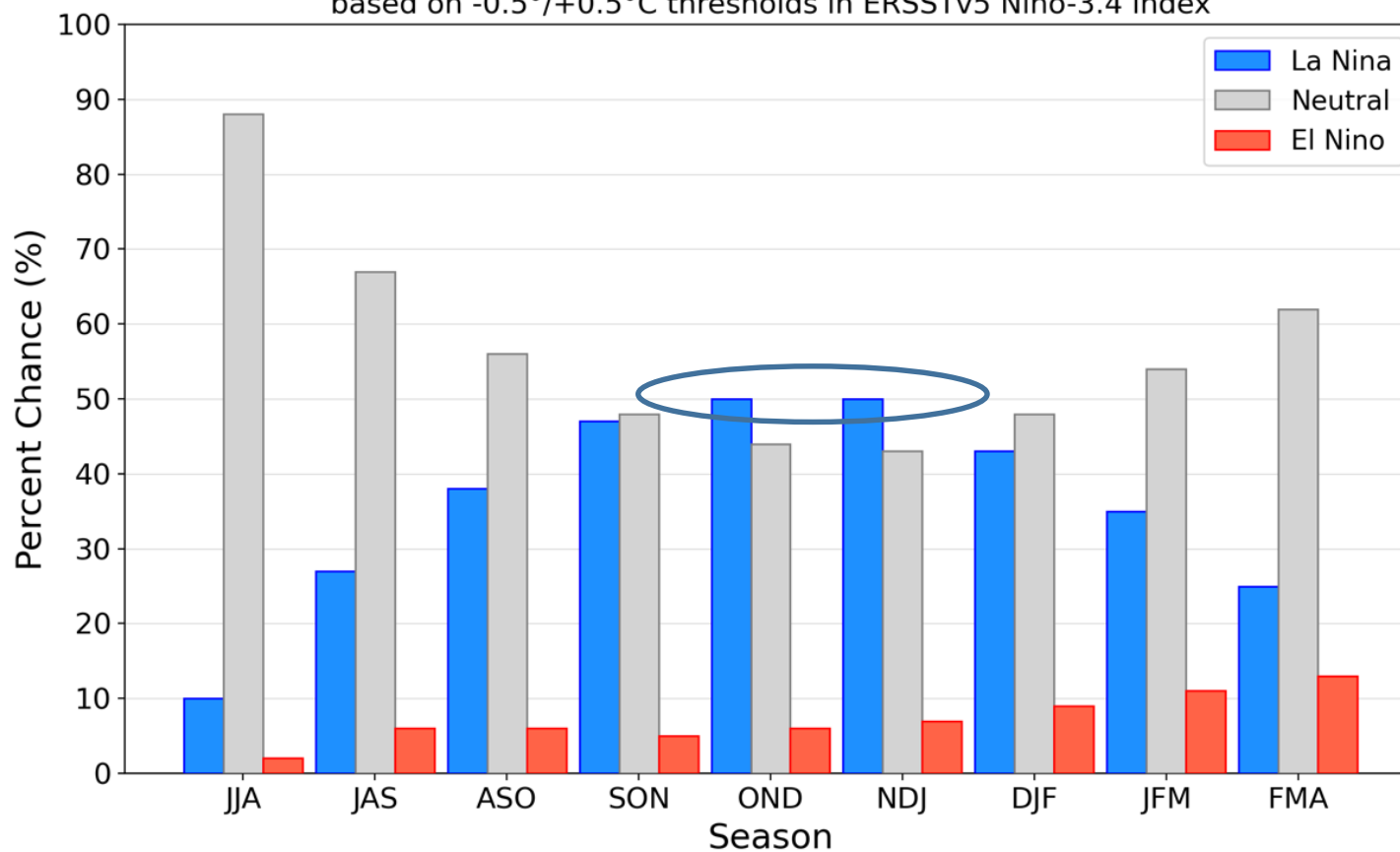
NOAA Coral Reef Watch Daily 5km SST Anomalies (v3.1) 27 Jul 2025



Previsão do “ENSO”

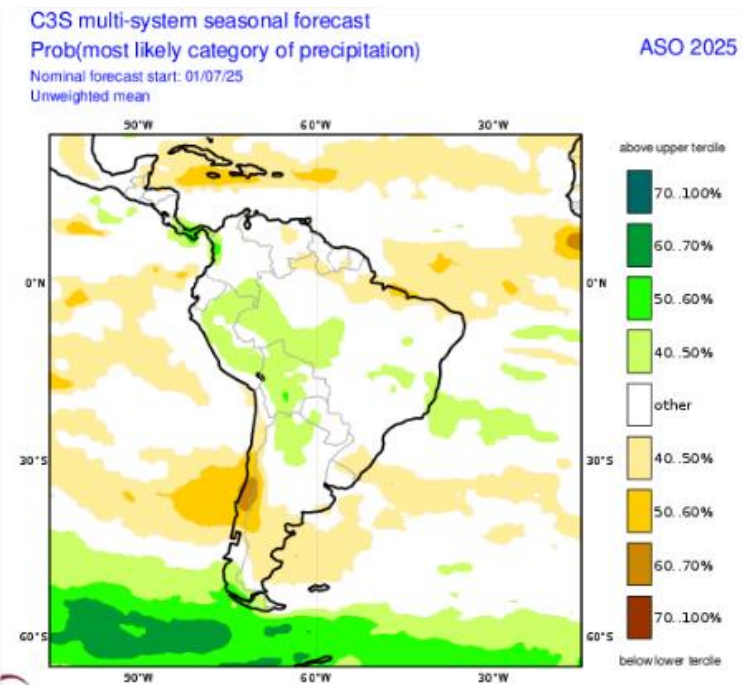
Official NOAA CPC ENSO Probabilities (issued July 2025)

based on $-0.5^{\circ}/+0.5^{\circ}\text{C}$ thresholds in ERSSTv5 Niño-3.4 index

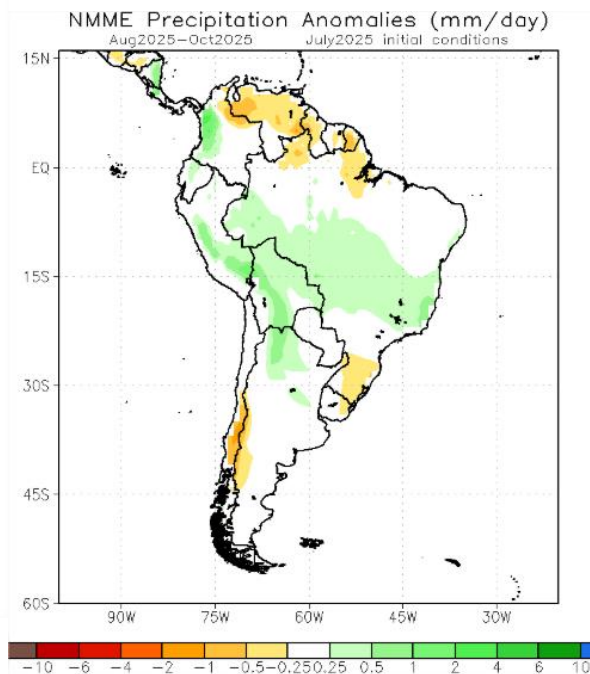


Previsão Sazonal de Chuva Multi-Modelo

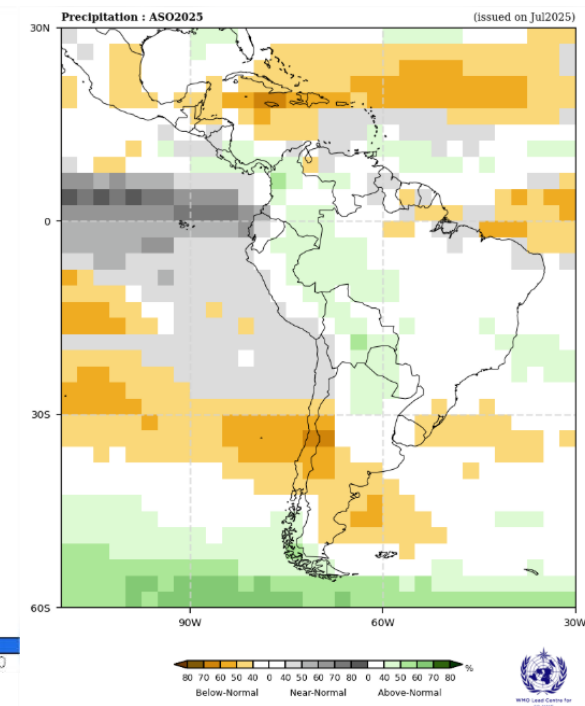
Agosto-Setembro-Outubro



Modelos “Europeus”



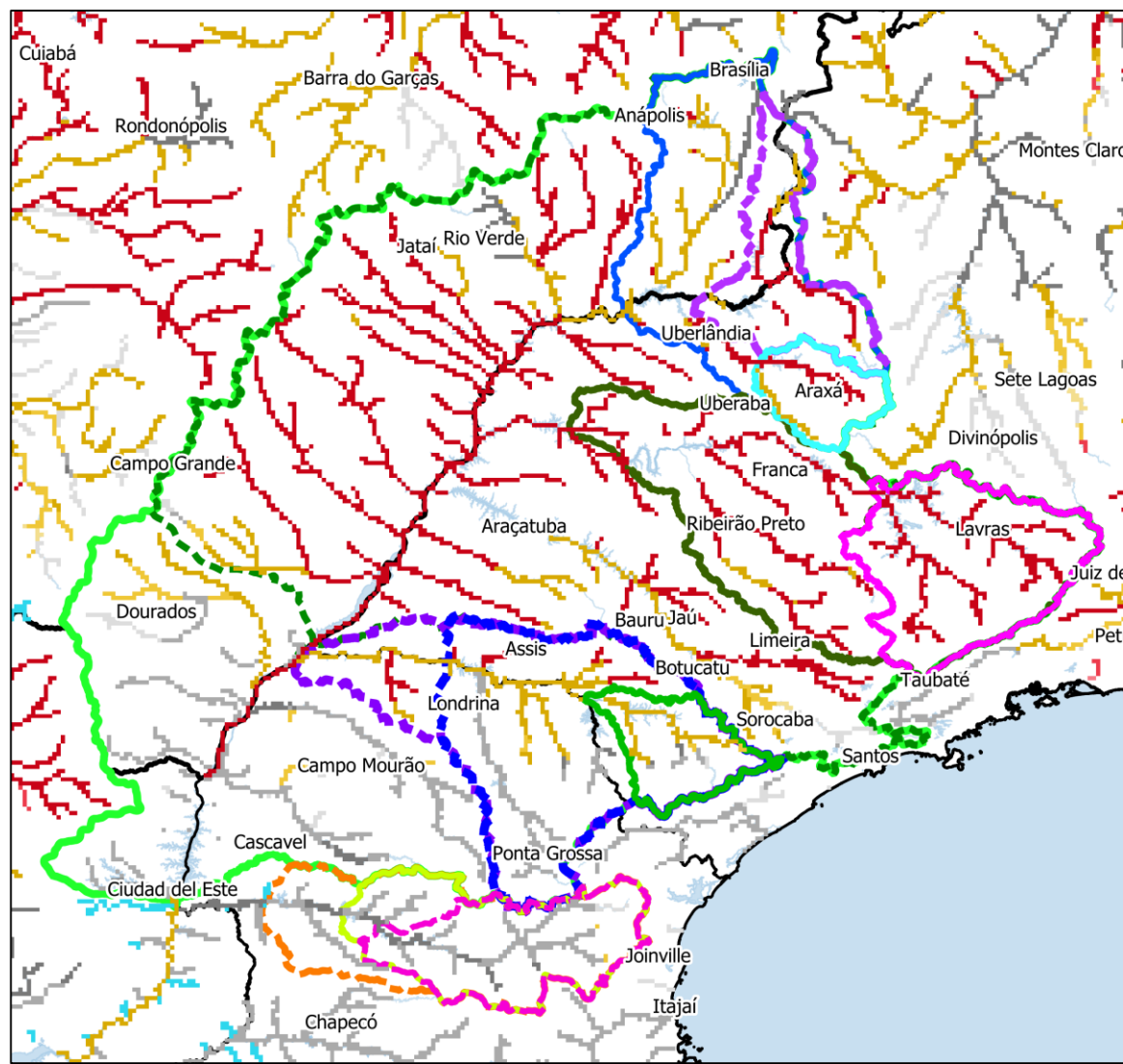
Modelos Norte Americanos



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



- Bacia UHE Jurumirim
- Bacia UHE Nova_Ponte
- Bacia UHE Furnas
- Bacia UHE Segredo
- Bacia UHE Marimbondo
- Bacia UHE Emborcação
- Bacia UHE Salto Santiago
- Bacia UHE Capivara
- Bacia UHE Salto Caxias
- Bacia UHE Rosana
- Bacia UHE Itumbiara
- Bacia UHE Porto Primavera
- Bacia UHE Itaipu

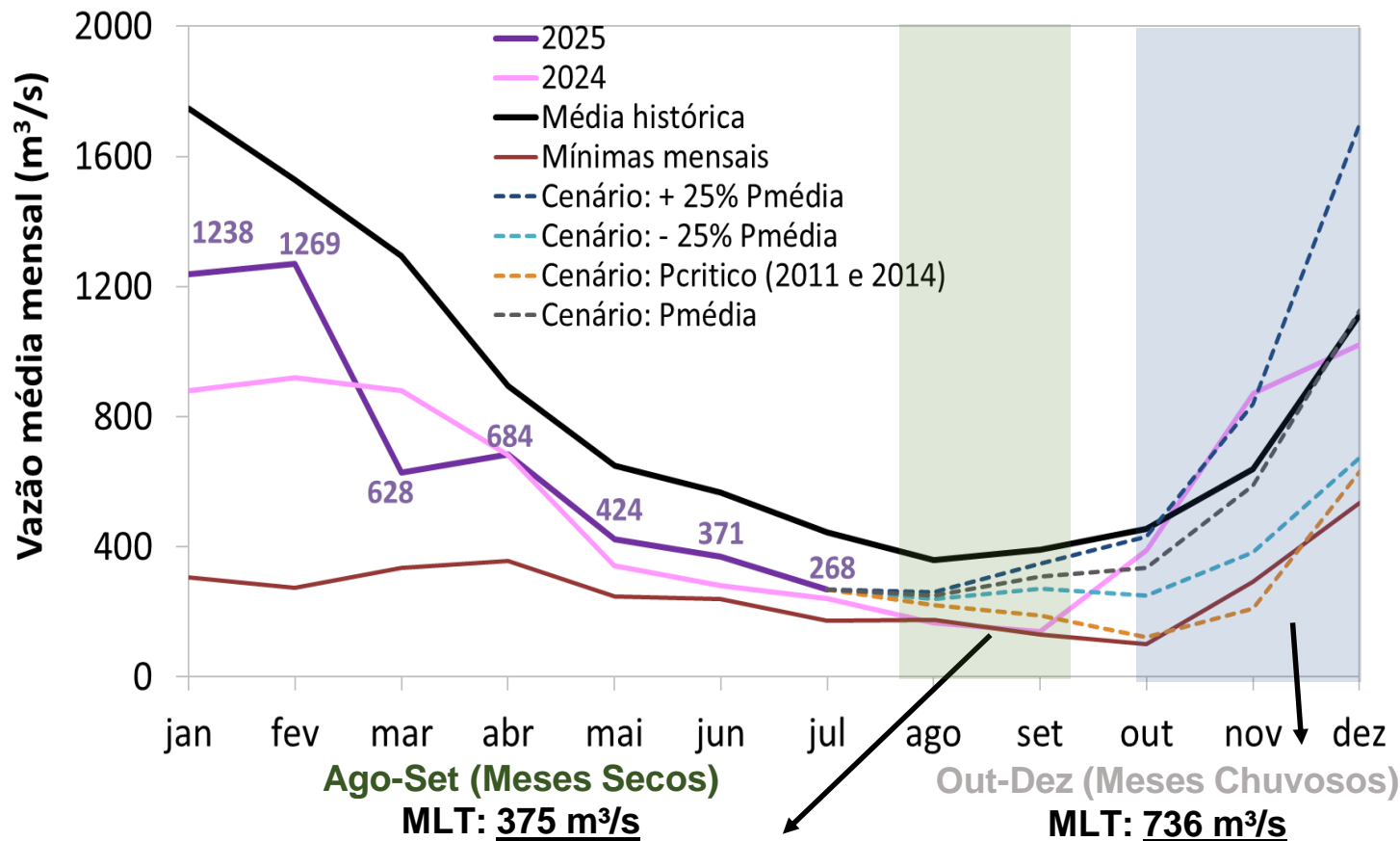
Categoria de anomalia para as vazões (percentil)

- 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/>



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



Vazão	% MLT
305 m^3/s	81%
280 m^3/s	75%
255 m^3/s	68%
204 m^3/s	54%

Vazão	% MLT
989 m^3/s	134%
683 m^3/s	93%
436 m^3/s	59%
321 m^3/s	44%