



# CEMADEN

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

## Monitoramento e Previsões para a Bacia do rio Paraná

**25 de setembro  
2025**

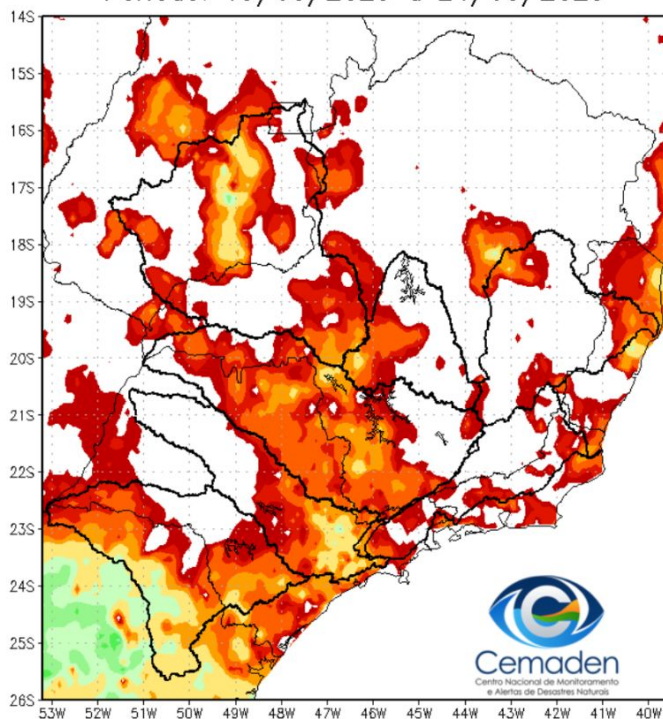


MINISTÉRIO DA  
CIÊNCIA, TECNOLOGIA  
E INOVAÇÃO

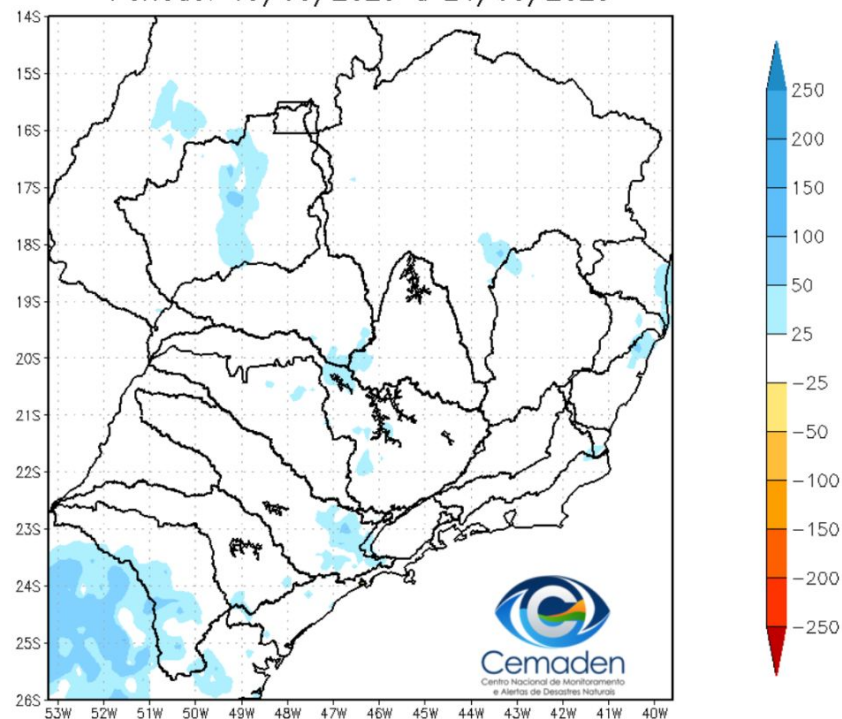


## Precipitação acumulada nos últimos 5 dias

Precipitação Acumulada (mm) A.S.  
Período: 19/09/2025 a 24/09/2025

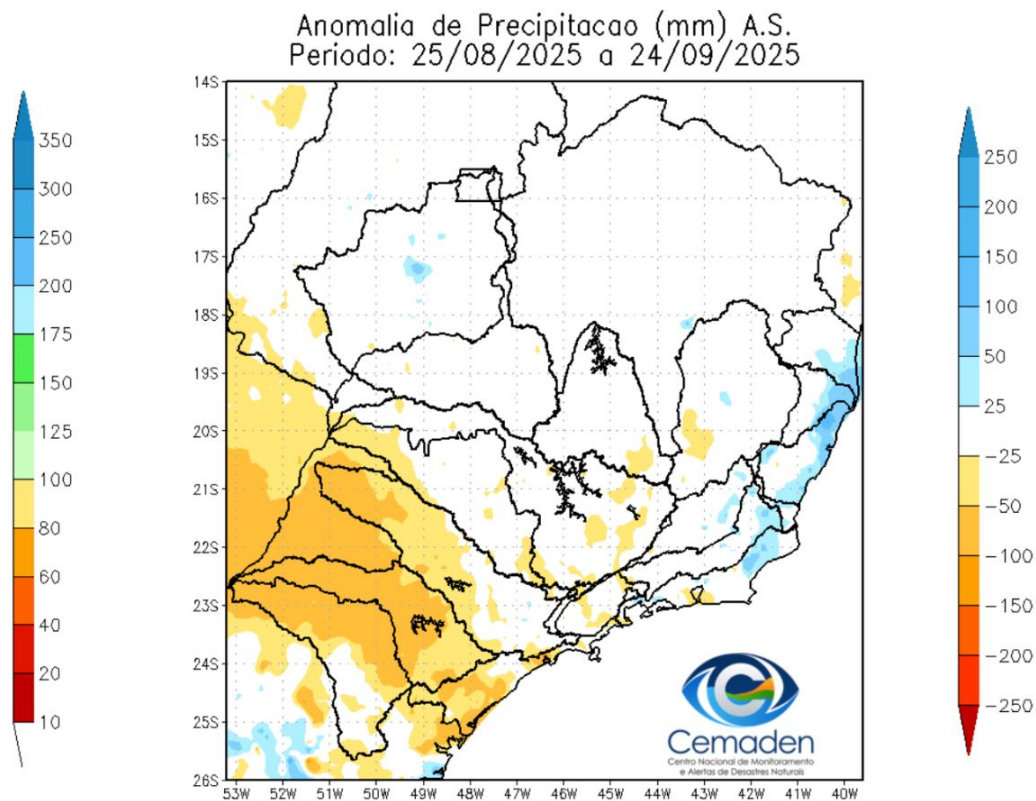
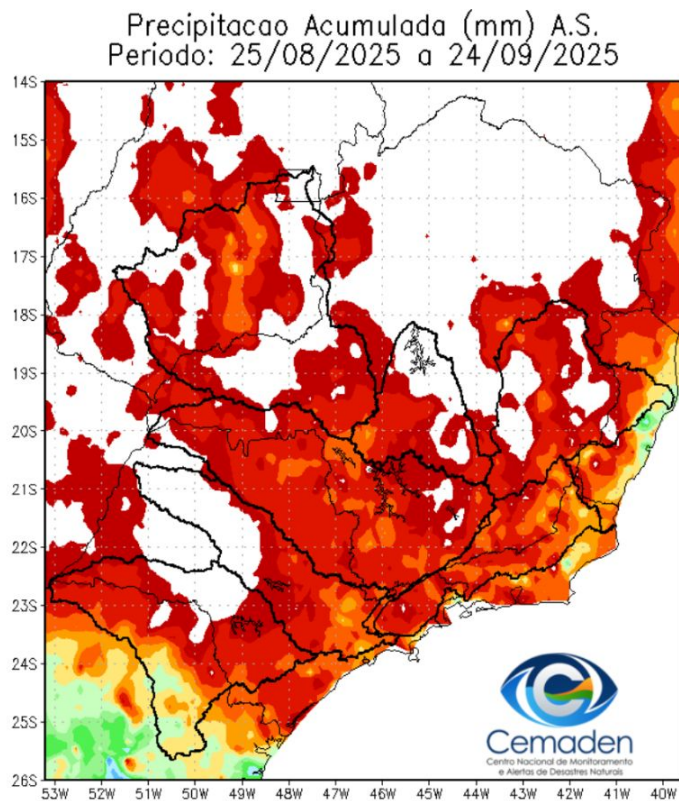


Anomalia de Precipitação (mm) A.S.  
Período: 19/09/2025 a 24/09/2025



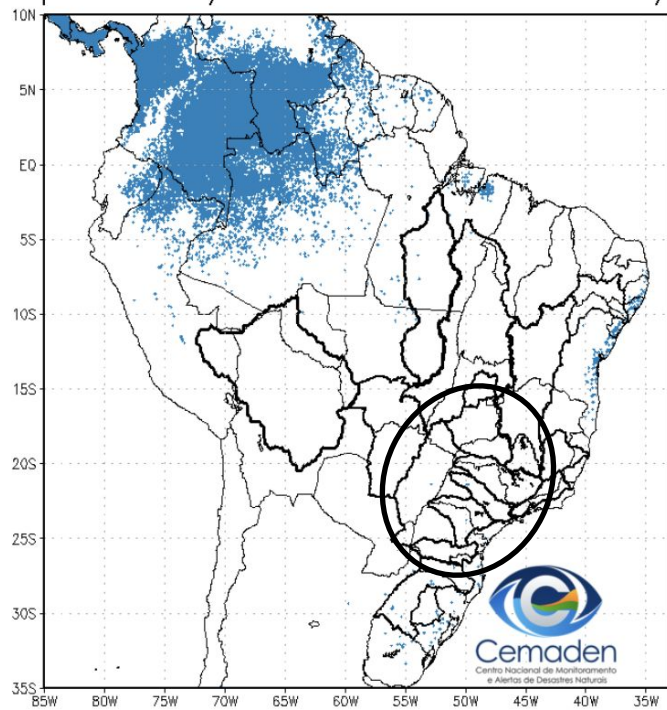


## Precipitação acumulada nos últimos 30 dias

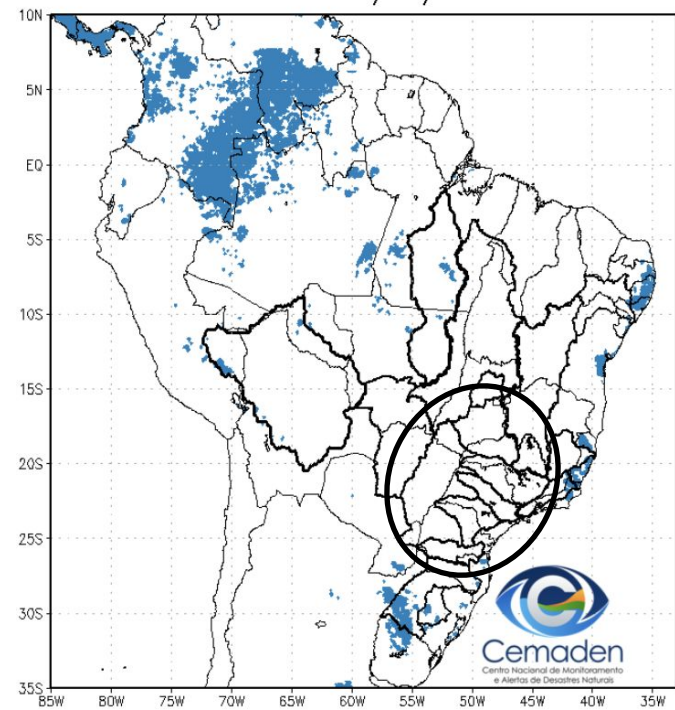


# Situação da Estação Chuvosa

Climatologia da Precipitação (2001–2024)  
Superior 3 mm/dia em 4 de 5 dias Período: 24/09



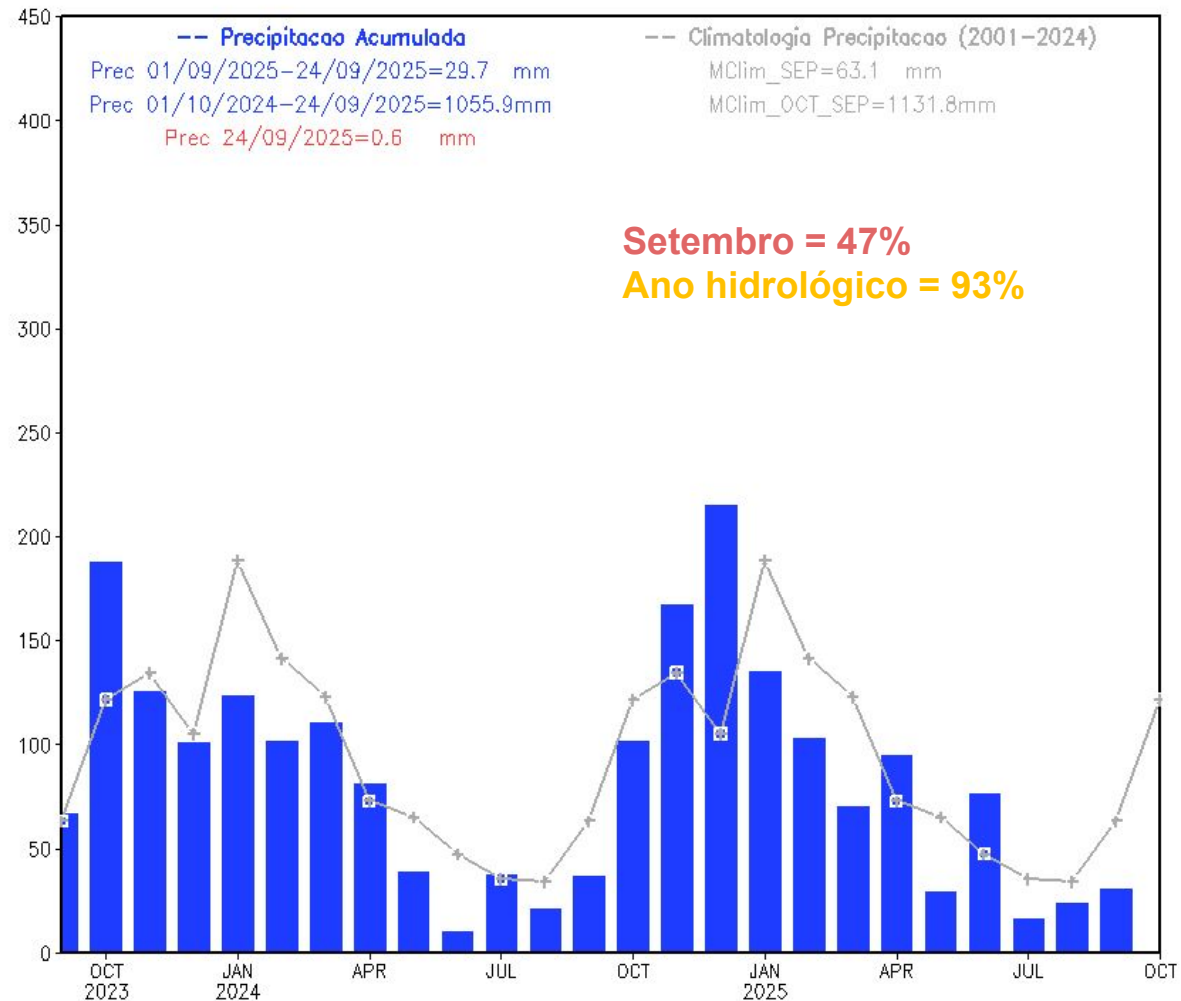
Precipitação A.S. Superior a 3 mm/dia por 4 de 5 dias  
Período: 24/09/2025





# Precipitação acumulada nos últimos 24 meses

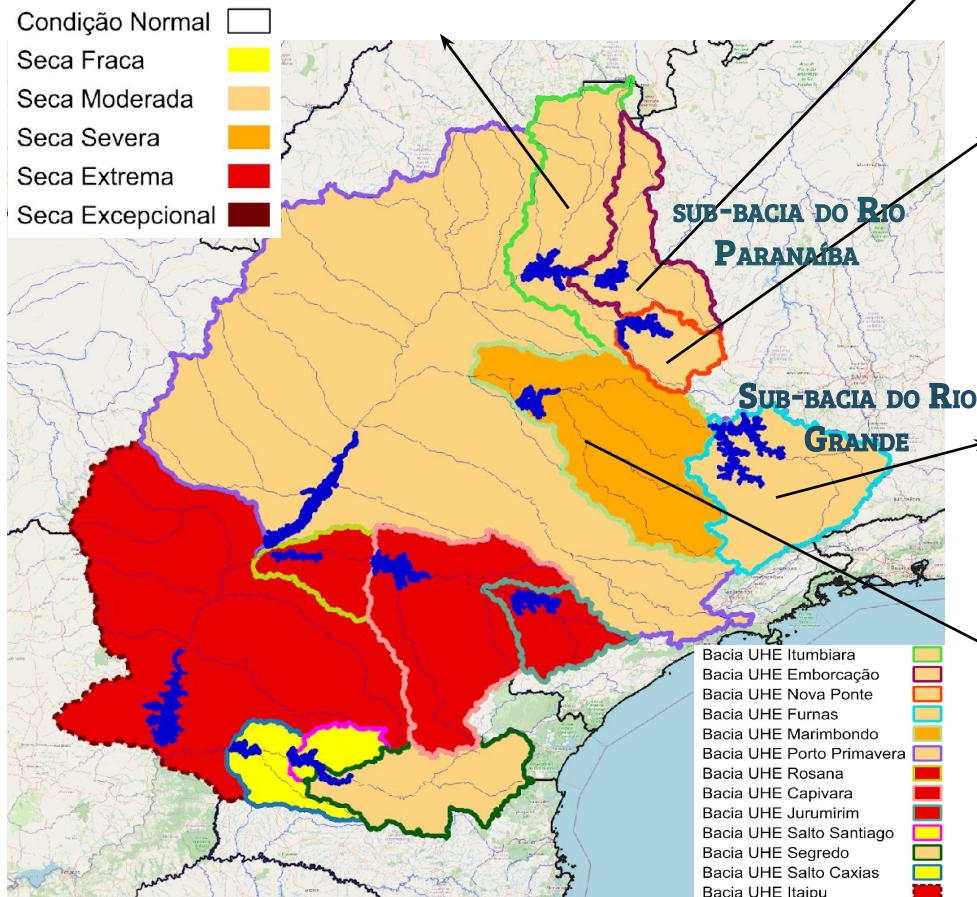
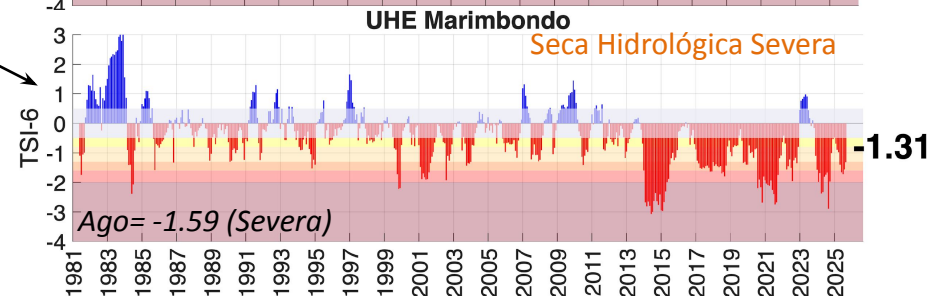
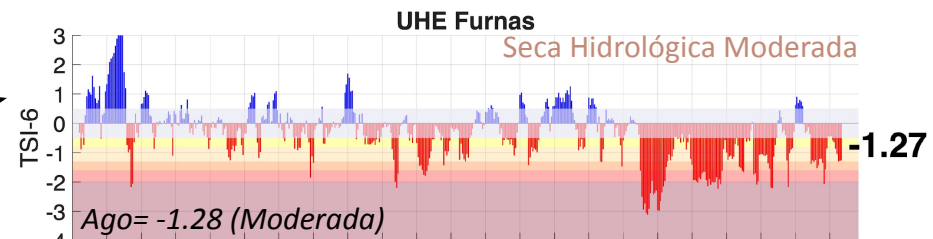
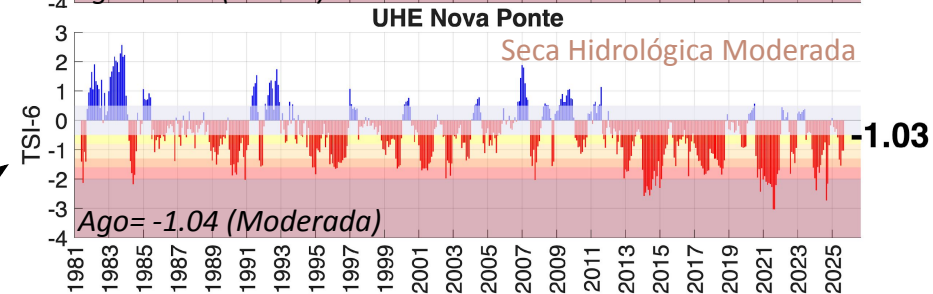
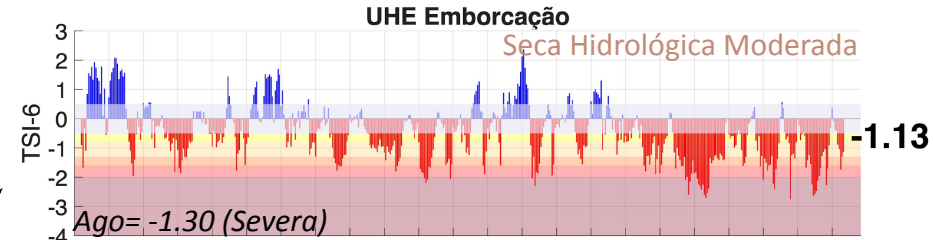
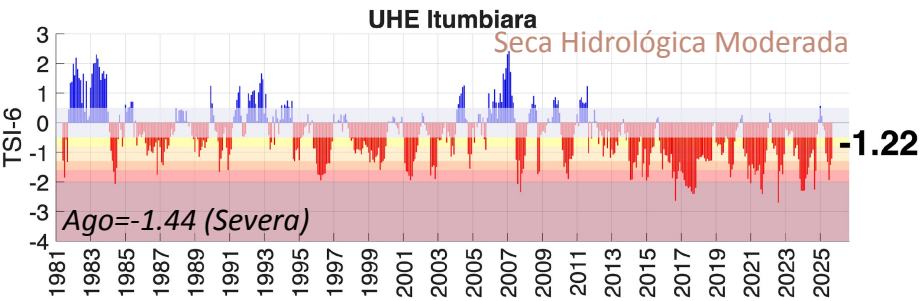
## Precipitação Bacia do Rio Parana desde SEP 2023



# BACIA DO RIO PARANÁ

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

Setembro/2025

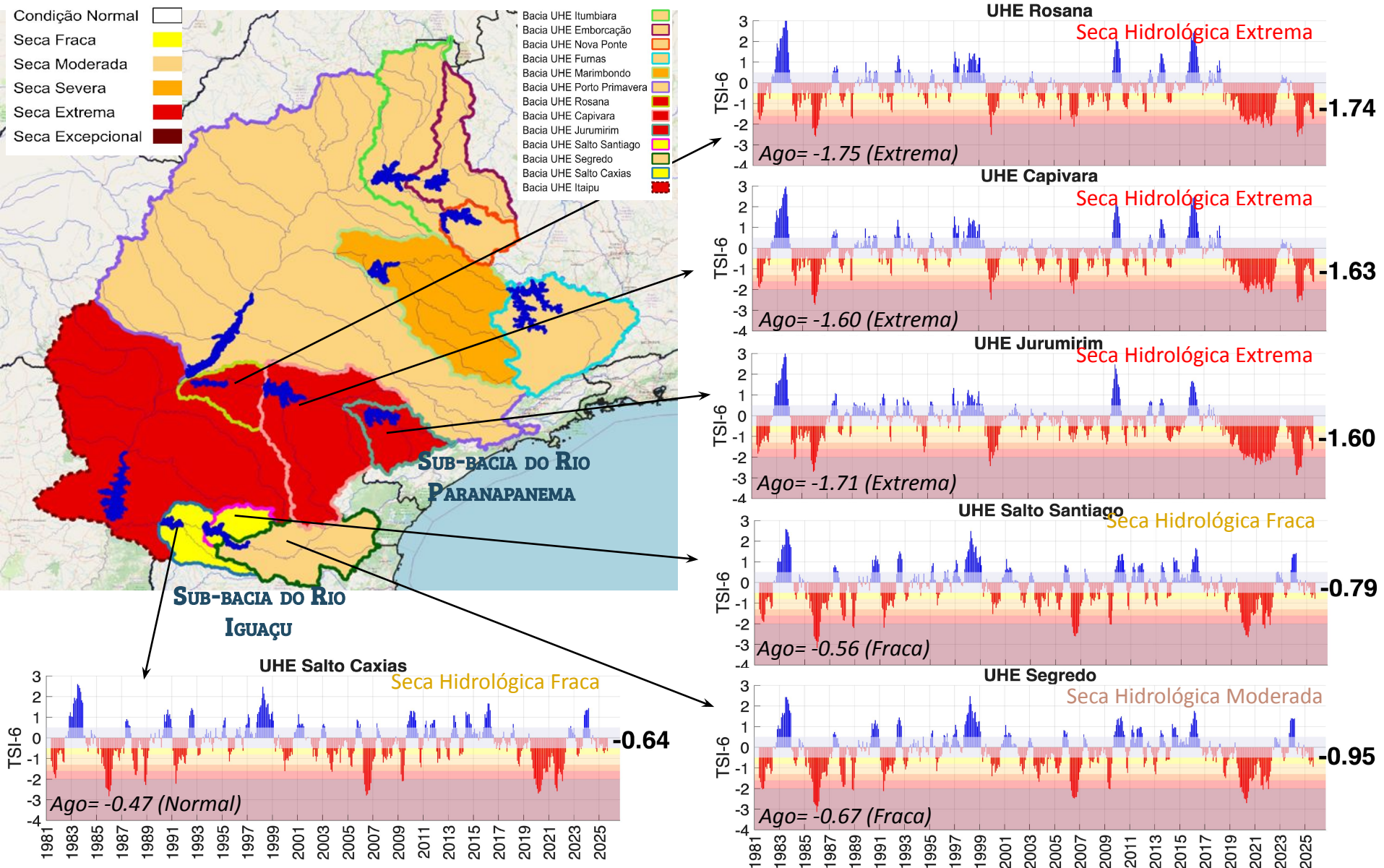




# BACIA DO RIO PARANÁ

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

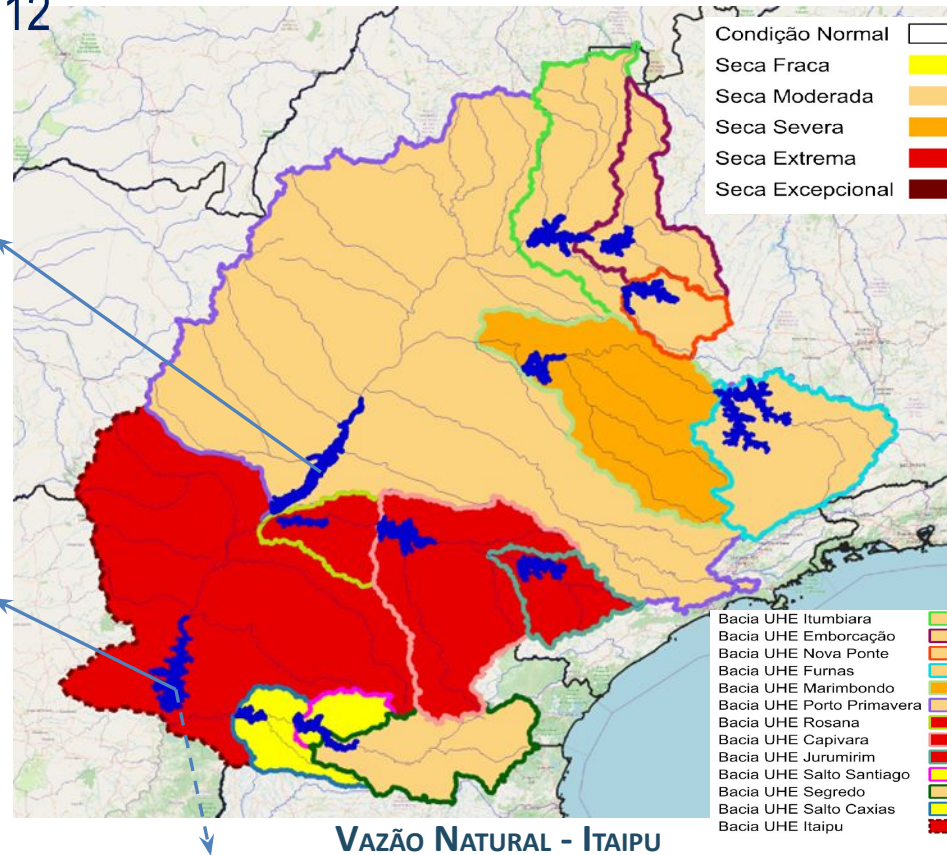
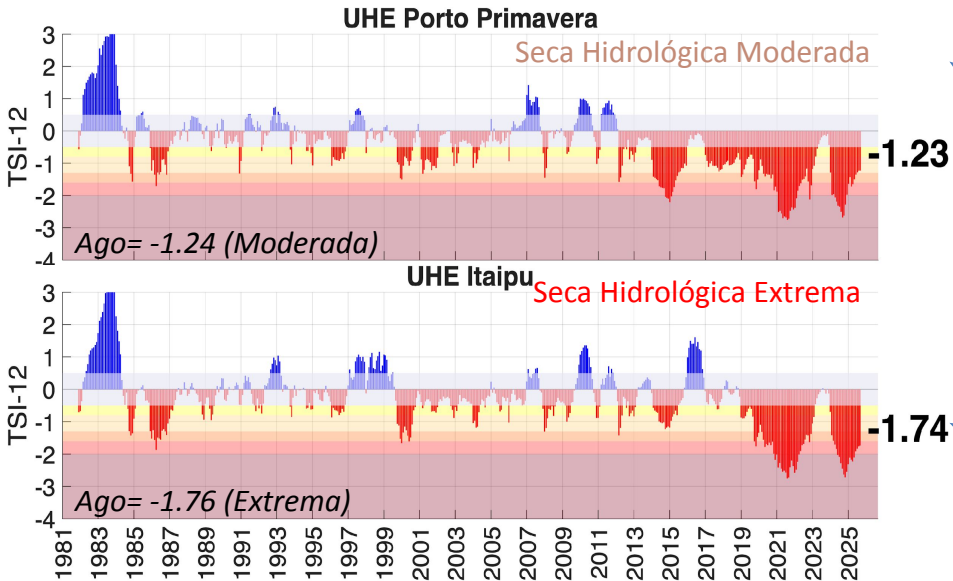
Setembro/2025



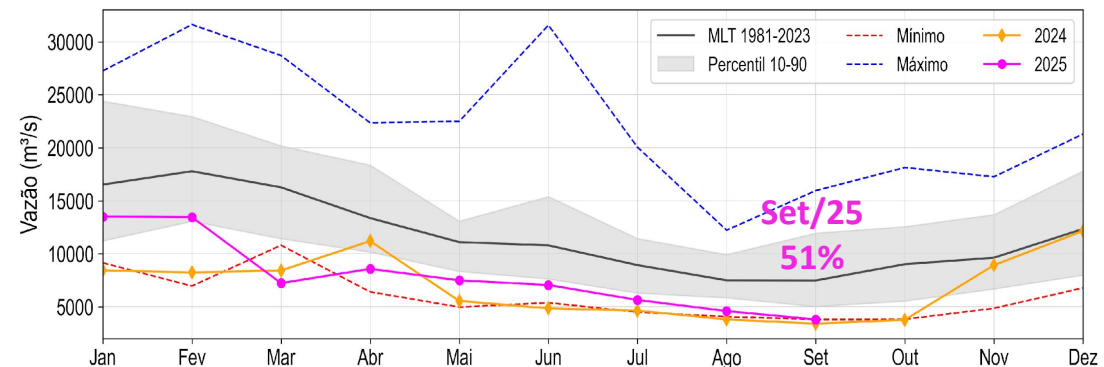
# BACIA DO RIO PARANÁ

Setembro/2025

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

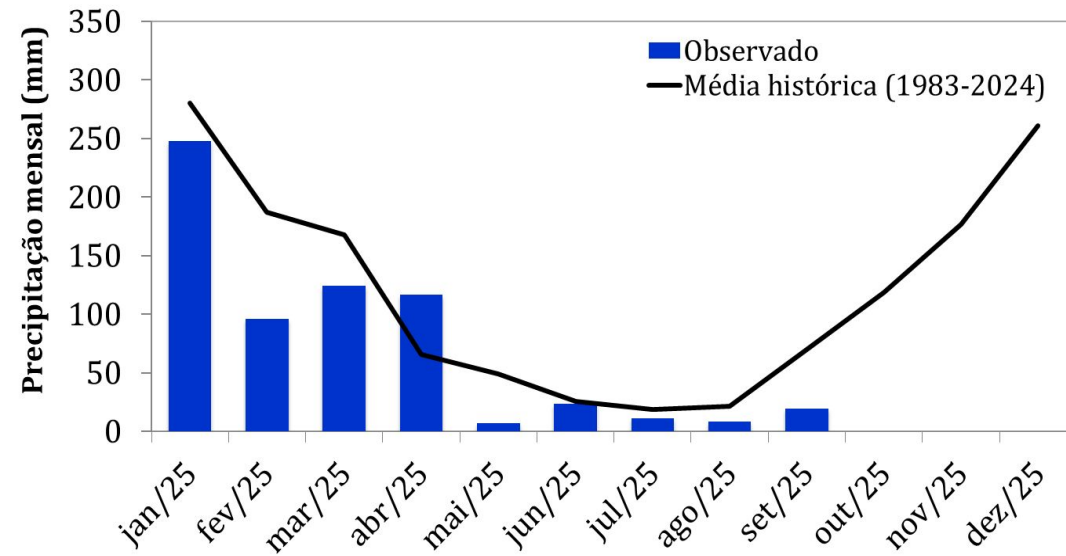


Série de dados = Jan/1981- Setembro/2025





# 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**)

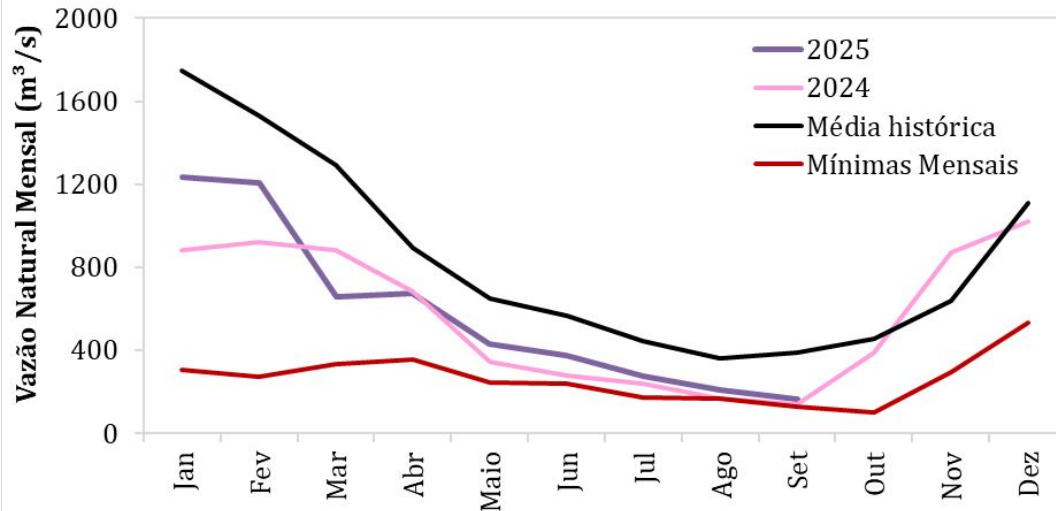
### Estação Seca - Abr a Set – 250 mm

2024: 102 mm (**41% da MLT**)

2025\*: 185 mm (**77% da MLT PARCIAL**)

Set/2025\*: 19 mm (**28% da MLT**)

\*Até 22/09/2025



## Vazão

### Estação Chuvosa - Out a Mar – 1130 m³/s

2023/2024: 716 m³/s (**63% da MLT**)

2024/2025: 897 m³/s (**79% da MLT**)

### Estação Seca - Abr a Set – 551 m³/s

2024: 309 m³/s (**56% da MLT**)

2025: 354 m³/s (**64% da MLT**)

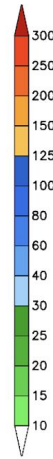
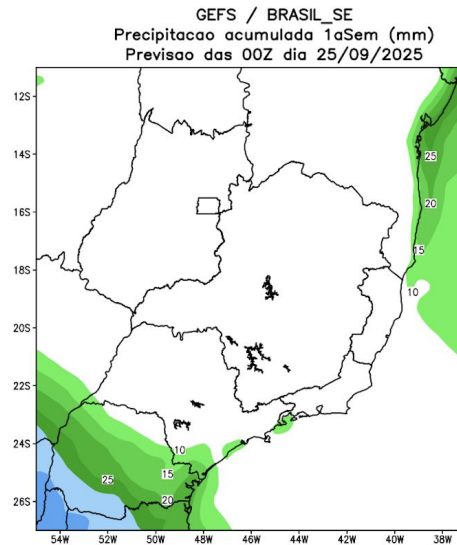
Set/25\*\*: 166 m³/s (**43% da MLT**)

22/Set/25: 121 m³/s (**31% da MLT**)

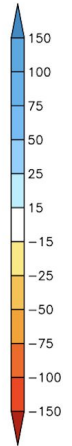
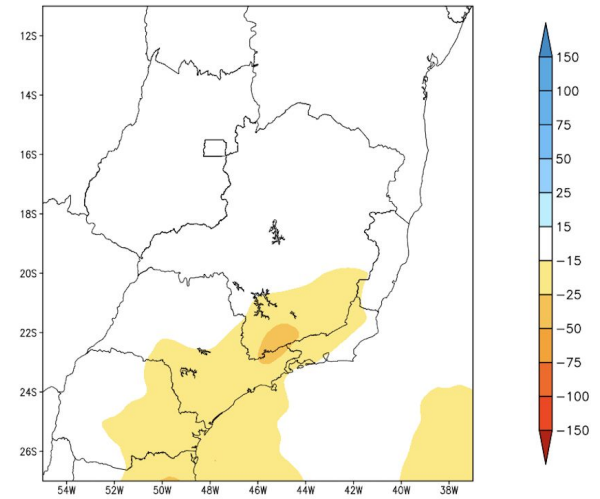
\*\*Até 22/09/2025

# Acumulado para as duas próximas semanas

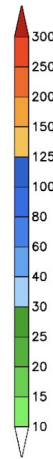
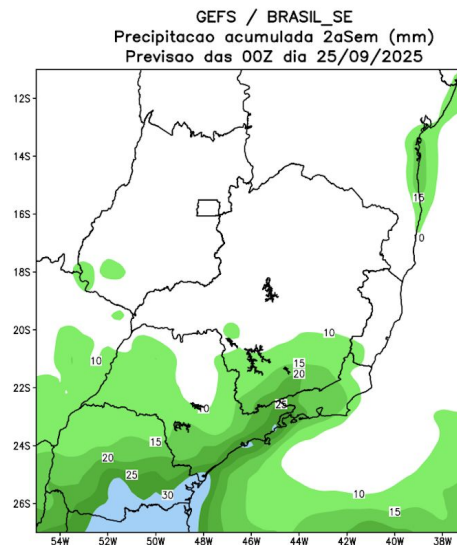
Semana 1



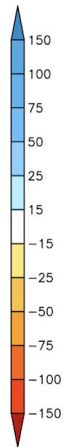
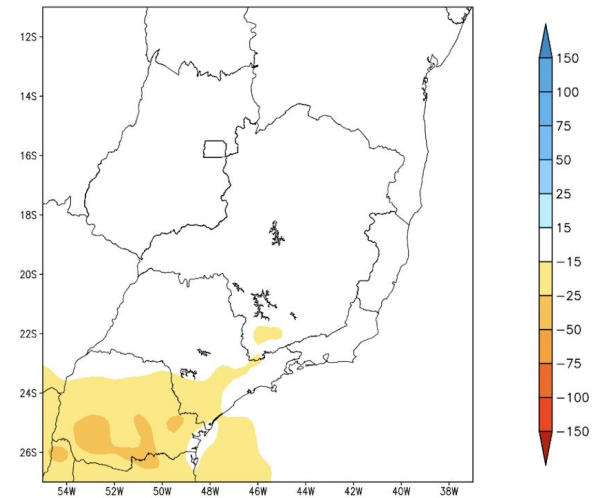
Anomalia de Precipitacao BR SE (mm)  
Período: 2025092500 a 2025100200



Semana 2



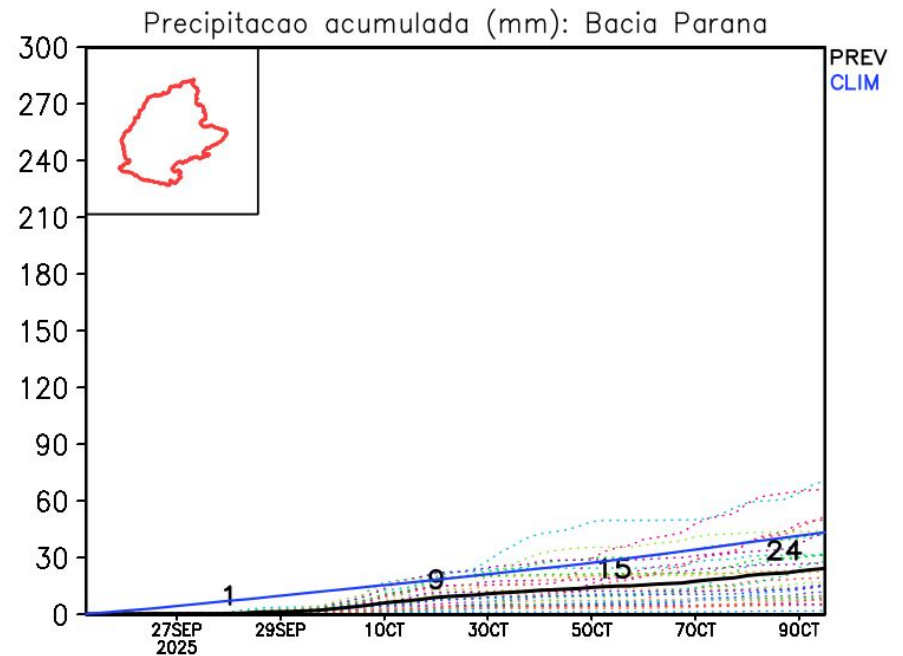
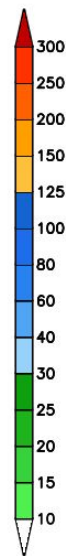
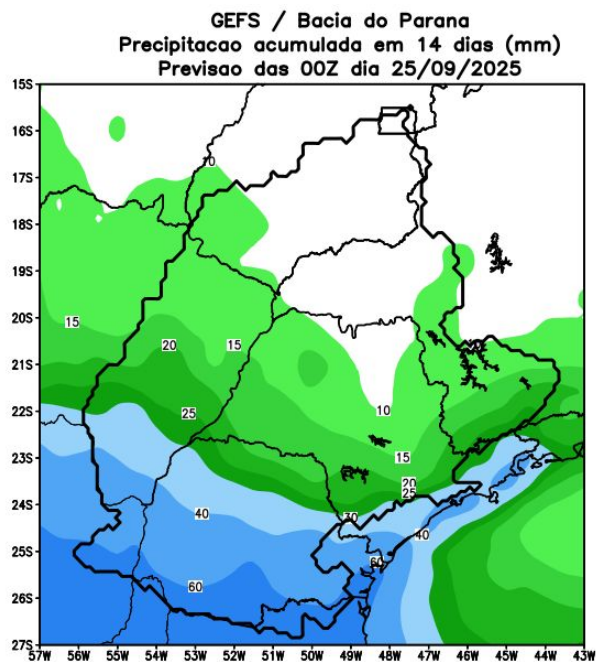
Anomalia de Precipitacao BR SE (mm)  
Período: 2025100300 a 2025100900



Fonte: GEFS/NOAA



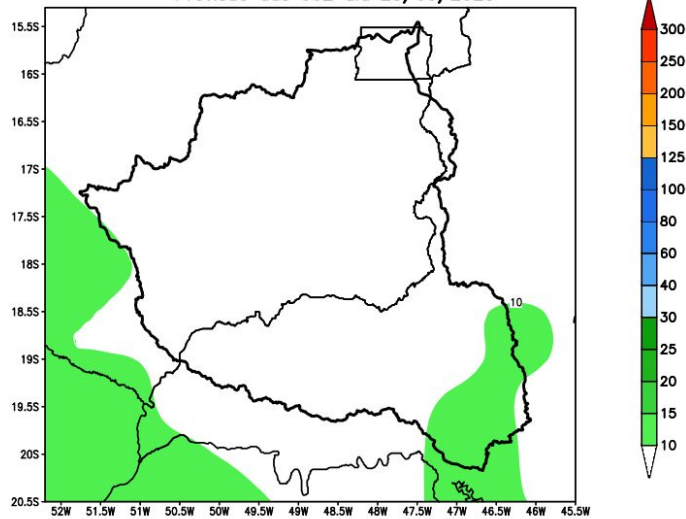
# Previsão de chuva para os próximos 14 dias



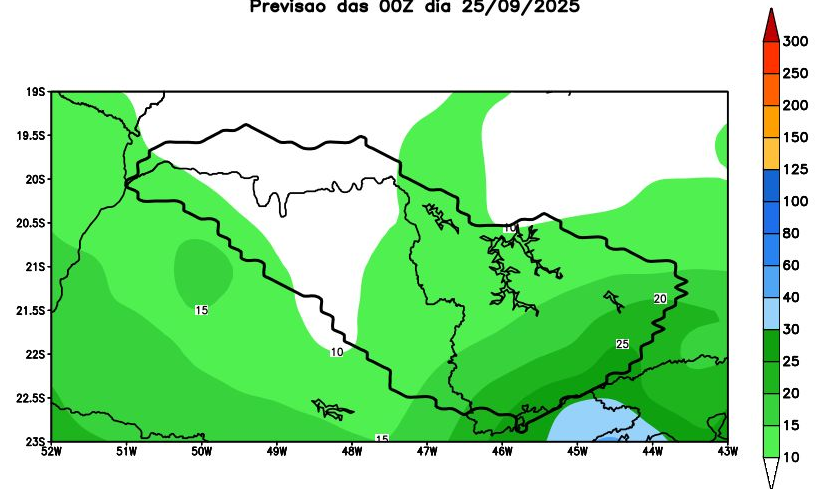
Fonte: GEFS/NOAA

# Bacia do rios Paranaíba e Grande

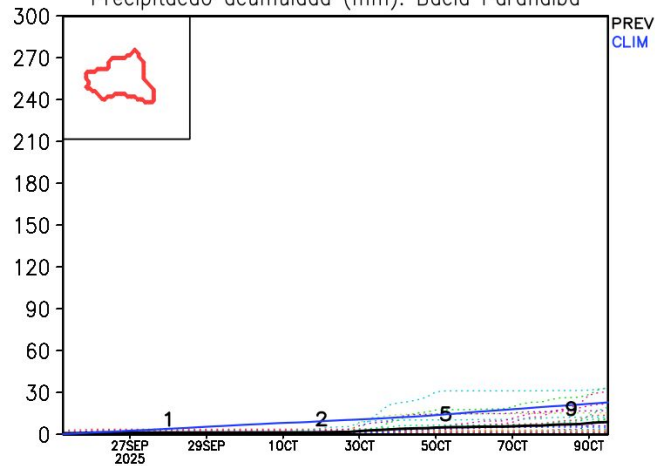
GEFS / Bacia do Rio Paranaíba  
Precipitação acumulada em 14 dias (mm)  
Previsão das 00Z dia 25/09/2025



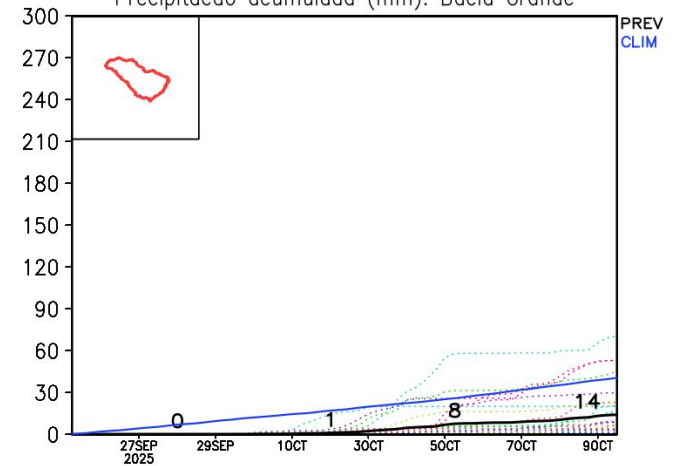
GEFS / Bacia do Rio Grande  
Precipitação acumulada em 14 dias (mm)  
Previsão das 00Z dia 25/09/2025



Precipitação acumulada (mm): Bacia Paranaíba



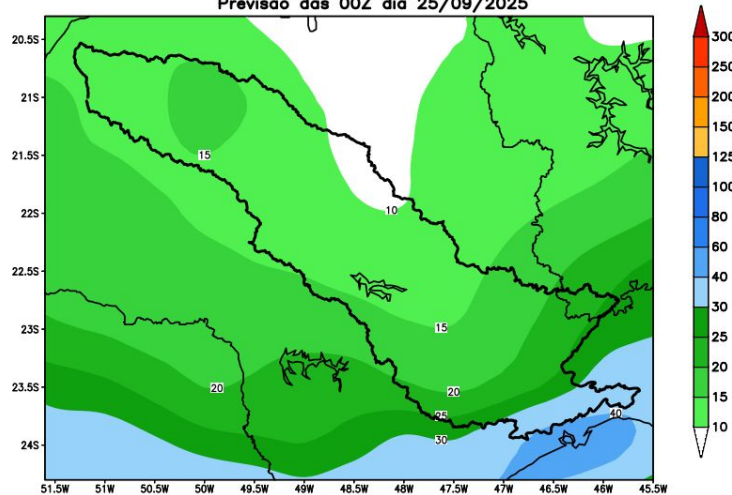
Precipitação acumulada (mm): Bacia Grande



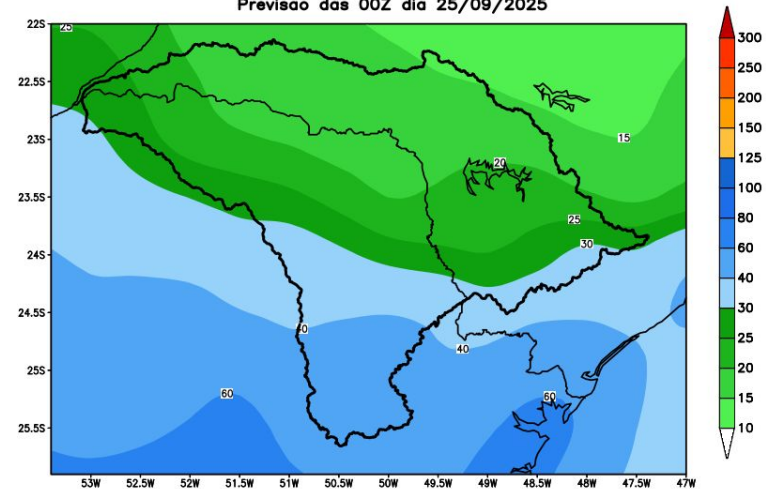


# Bacia do rios Tietê e Paranapanema

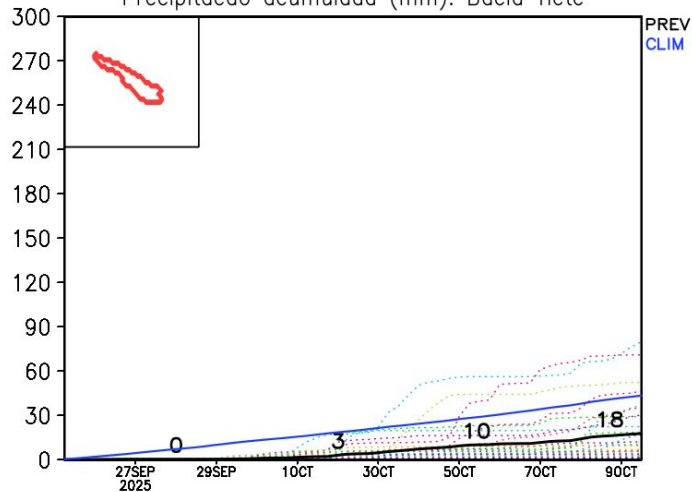
GEFS / Bacia do Rio Tiete  
Precipitacao acumulada em 14 dias (mm)  
Previsao das 00Z dia 25/09/2025



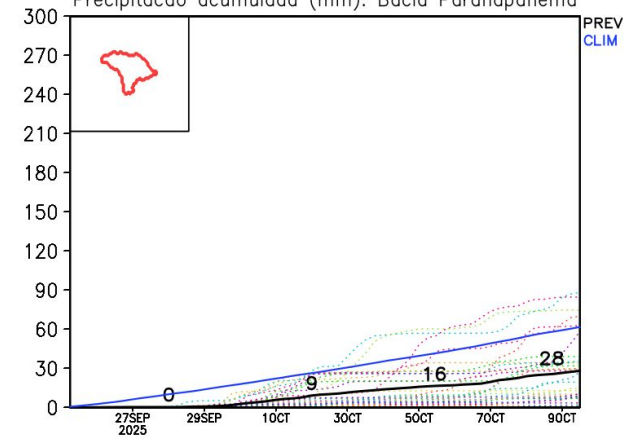
GEFS / Bacia do Rio Paranapanema  
Precipitacao acumulada em 14 dias (mm)  
Previsao das 00Z dia 25/09/2025



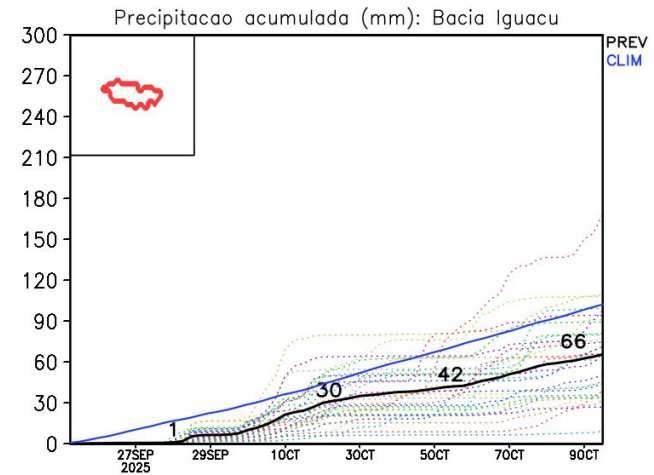
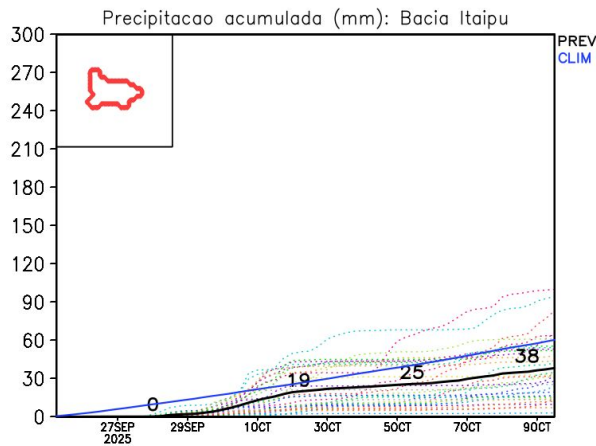
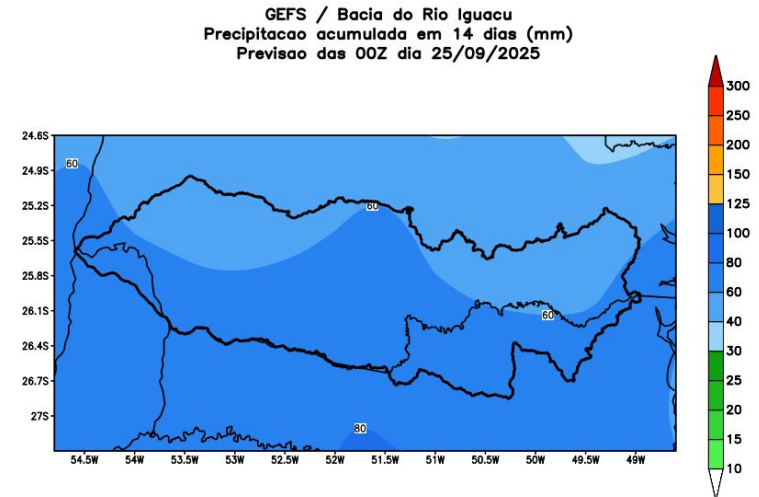
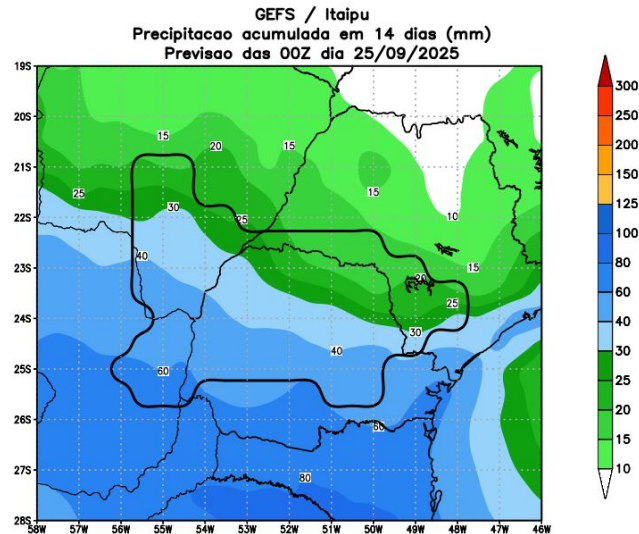
Precipitacao acumulada (mm): Bacia Tiete



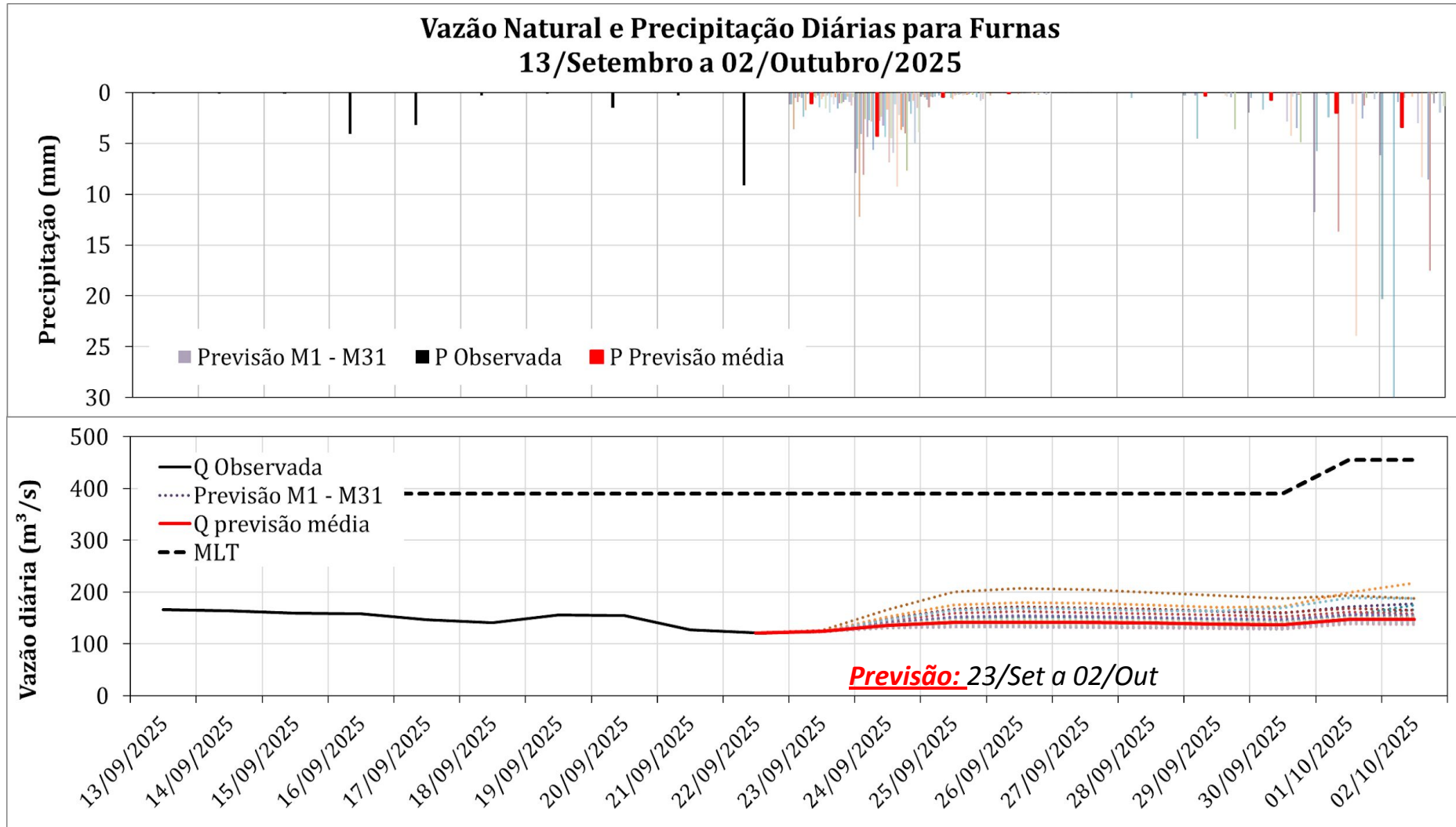
Precipitacao acumulada (mm): Bacia Paranapanema



# Bacia do Itaipu e Iguaçu



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



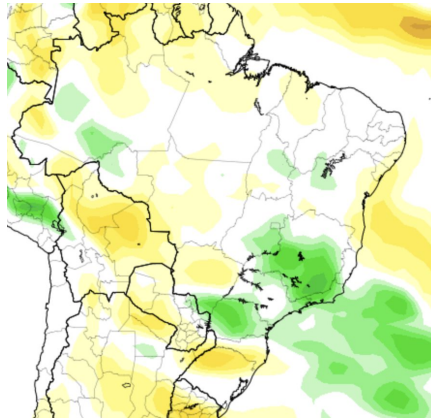
**Previsão média para os próximos 10 dias: 139 m³/s**  
**(36% da MLT Setembro e 31% MLT Outubro)**



# Anomalia de Chuva

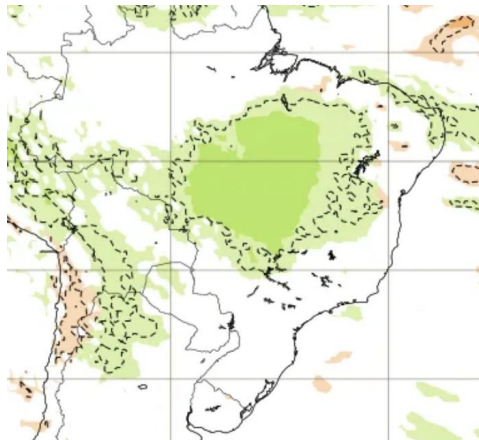
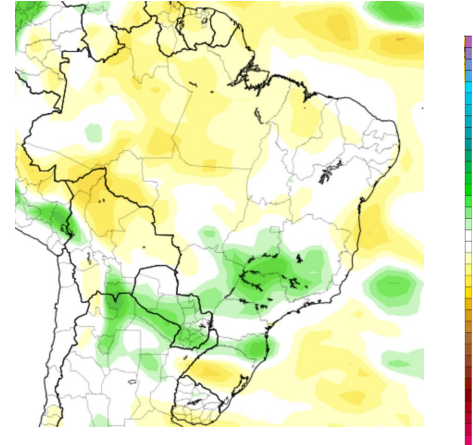
3a e 4a semanas

15-22 Outubro



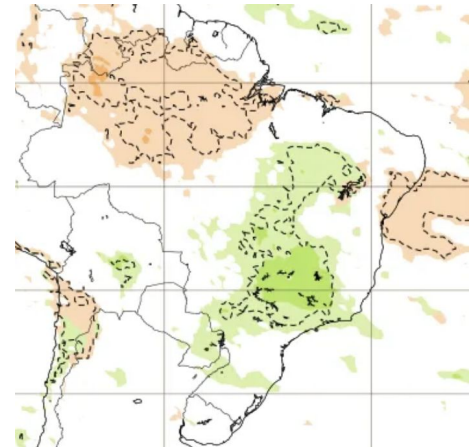
Americano  
CFS/NOAA

12-29 Outubro



Europeu  
ECMWF

13-19 Outubro

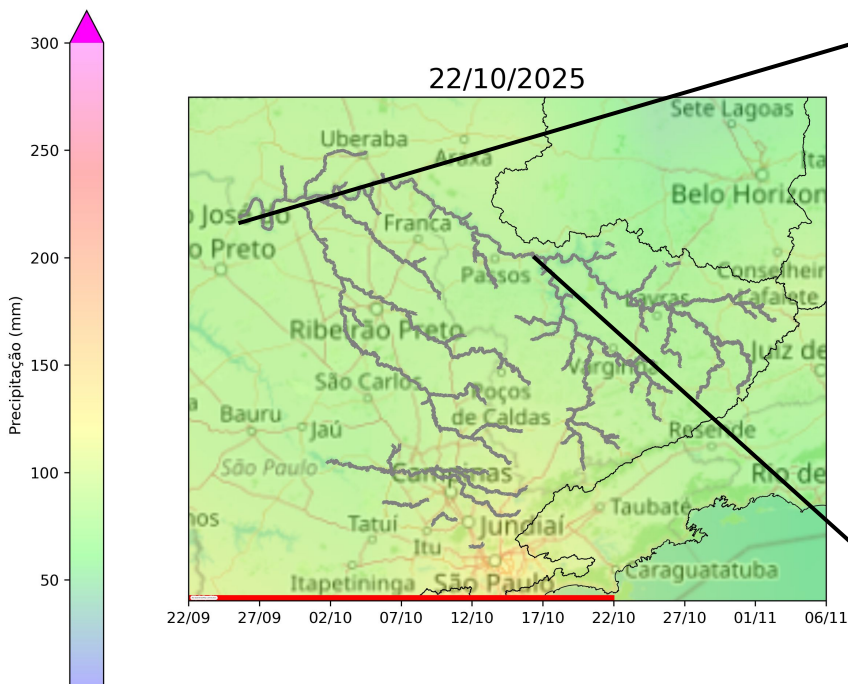


20-26 Outubro

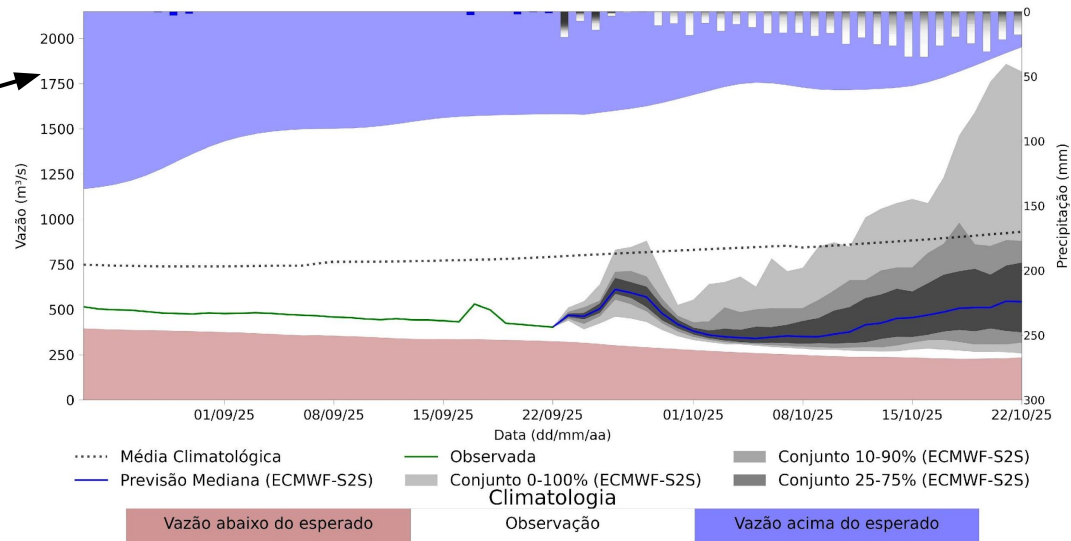
CFSv2 Accumulated Precip. Anomaly (mm)

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

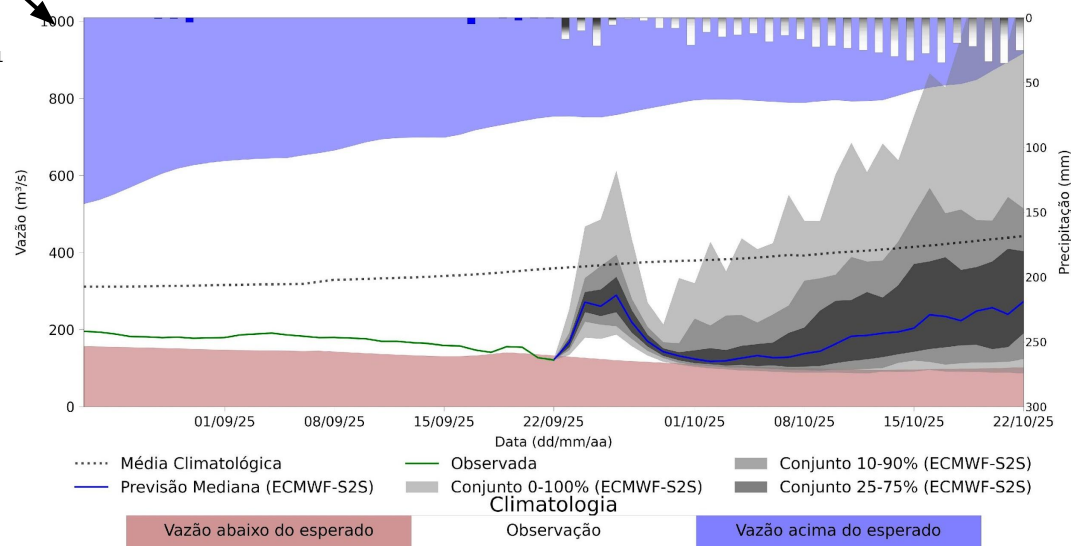
**PREVISÃO: 22/09/25 a 22/10/25**



## UHE Marimbondo



## UHE Furnas



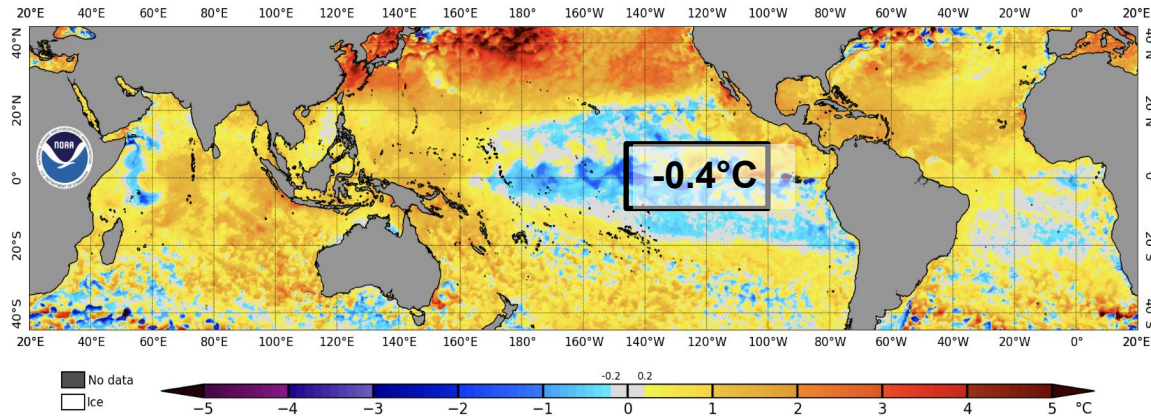
Fonte: Meteorologia (INMET/MERGE); Vazão (ANA/ONS)

MLT: 1993-2024

Previsão Meteorológica: ECMWF-S2S

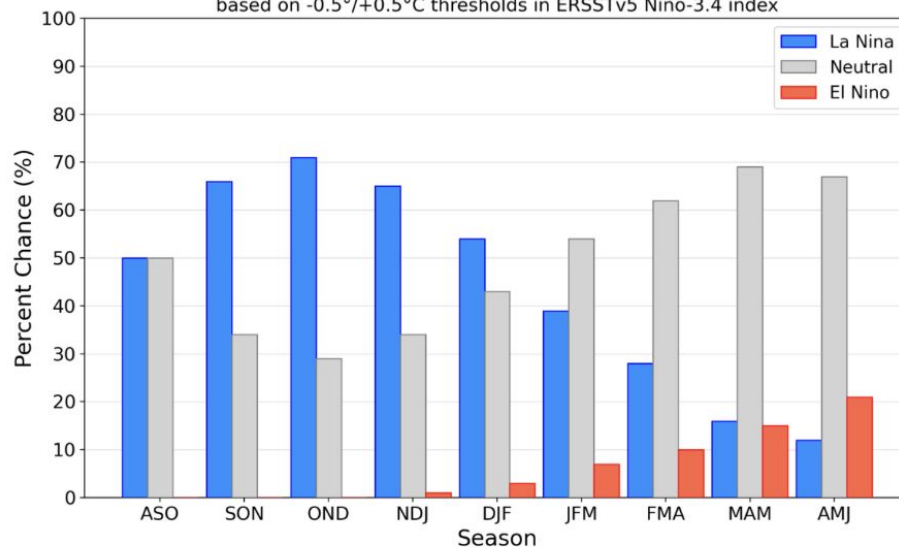
# Status Atual El Niño/La Niña: Fase Neutra

NOAA Coral Reef Watch Daily 5km SST Anomalies (v3.1) 23 Sep 2025



## Official NOAA CPC ENSO Probabilities (issued September 2025)

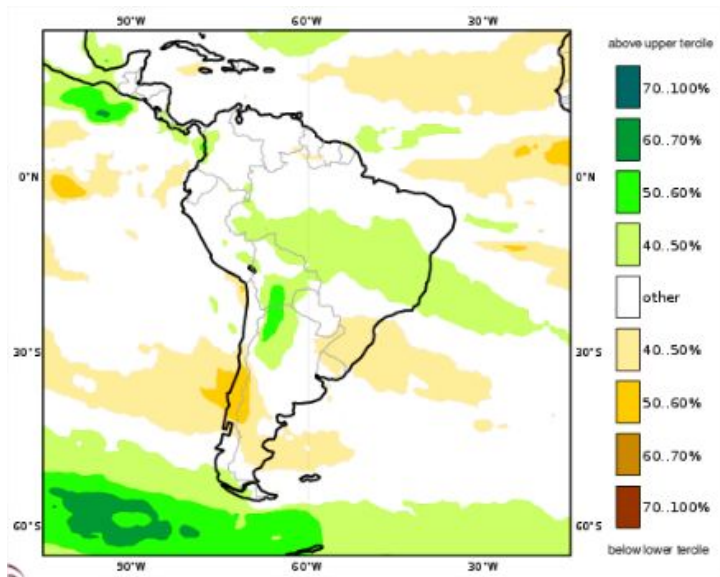
based on  $-0.5^{\circ}/+0.5^{\circ}\text{C}$  thresholds in ERSSTv5 Niño-3.4 index



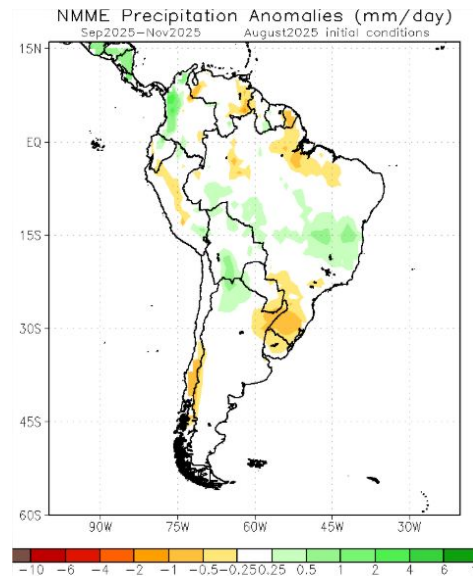


# Previsão Sazonal de Chuva Multi-Modelo

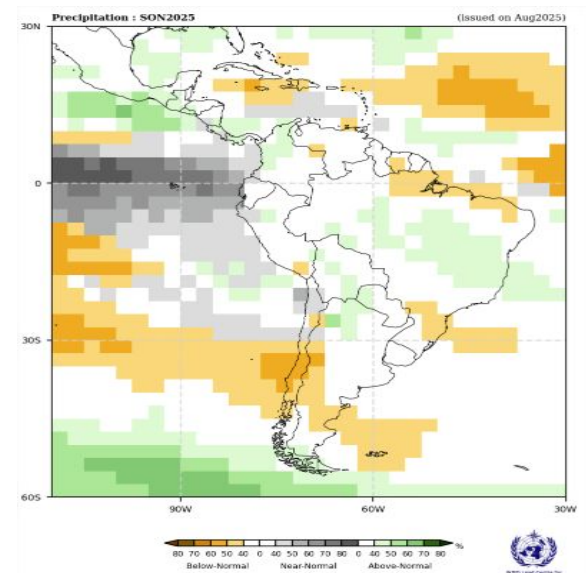
Setembro-Outubro-Novembro



Modelos “Europeus”

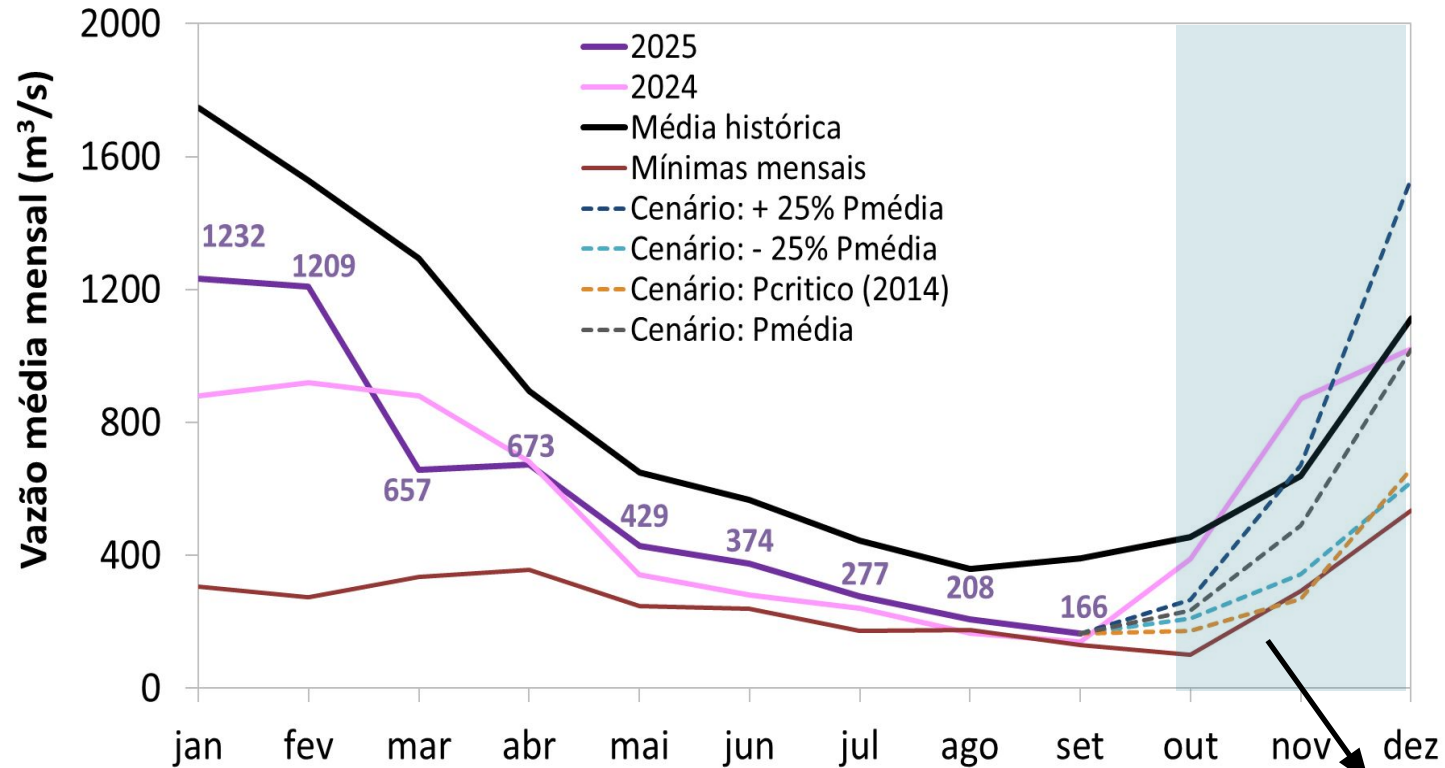


Modelos Norte  
Americanos



Modelos da WMO

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



**Out-Dez (Meses Chuvosos)**

**MLT: 736 m³/s**

Vazão	% MLT
<b>823 m³/s</b>	<b>112%</b>
582 m³/s	79%
<b>391 m³/s</b>	<b>53%</b>
<b>368 m³/s</b>	<b>50%</b>

2014  
(74% MLT)