



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

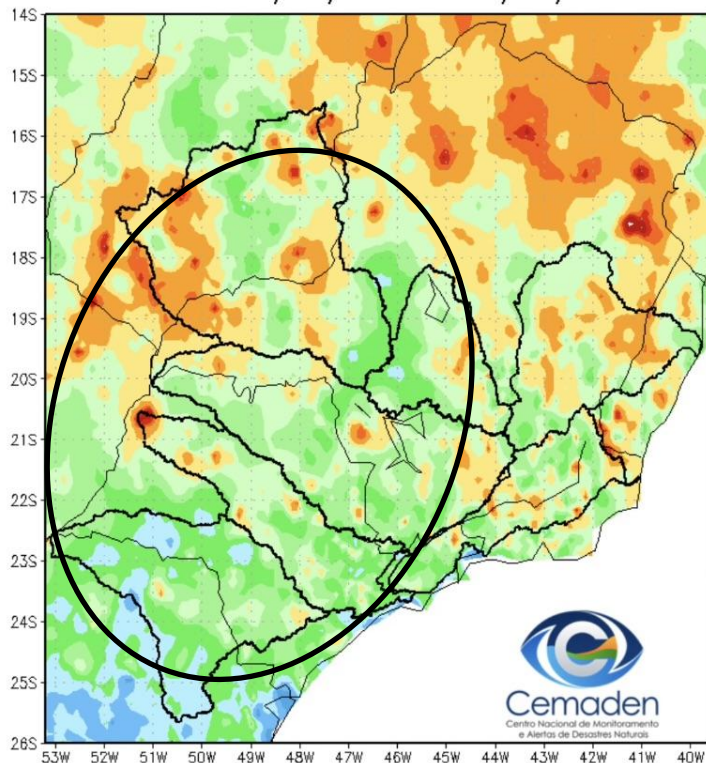
Monitoramento e Previsões para a Bacia do rio Paraná

Setembro de 2026

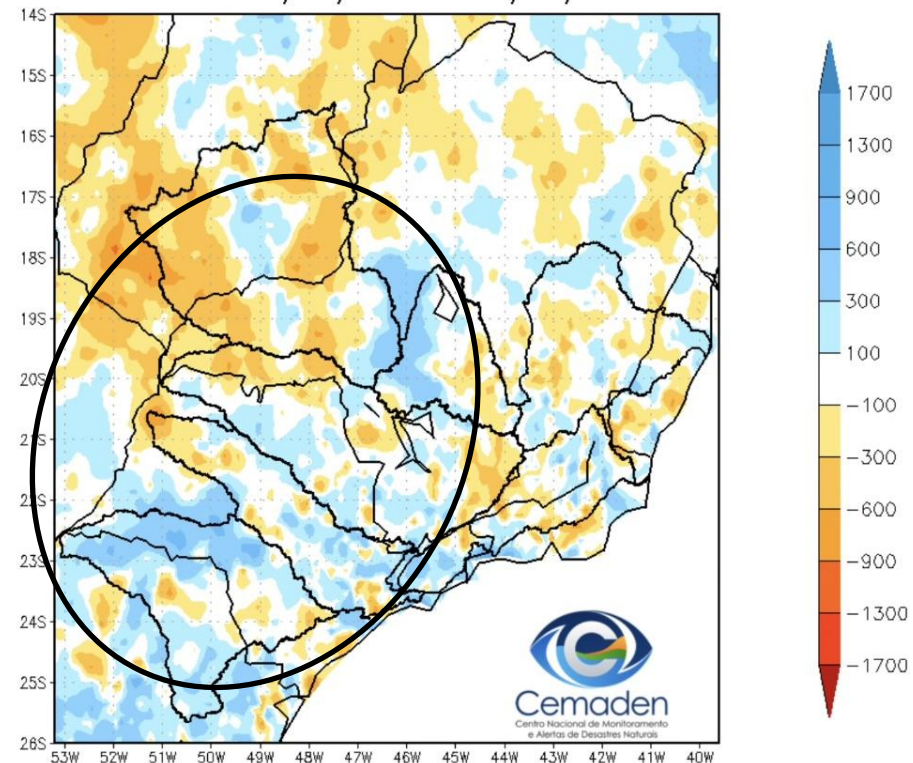


Precipitação acumulada no ano hidrológico

Precipitação Acumulada (mm) A.S.
Período: 01/10/2025 a 22/09/2026

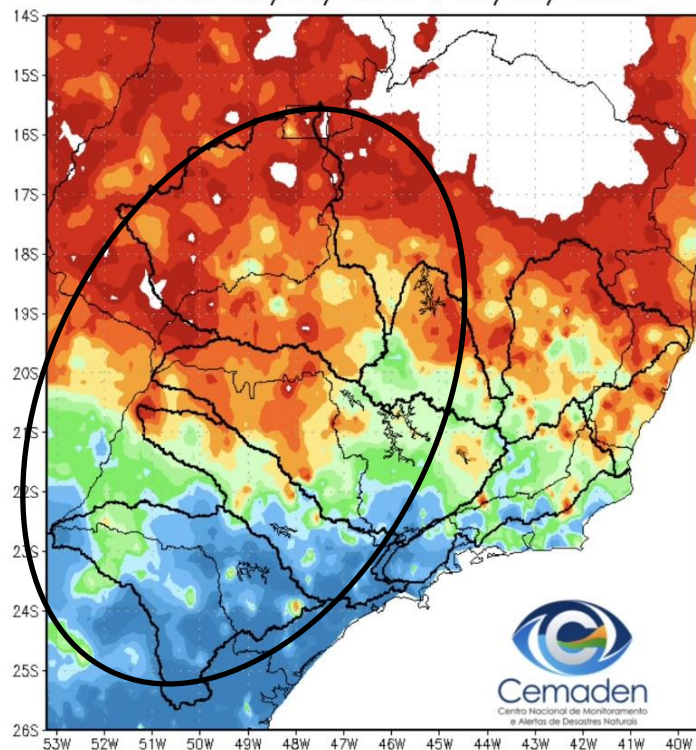


Anomalia de Precipitação (mm) A.S.
Período: 01/10/2025 a 22/09/2026

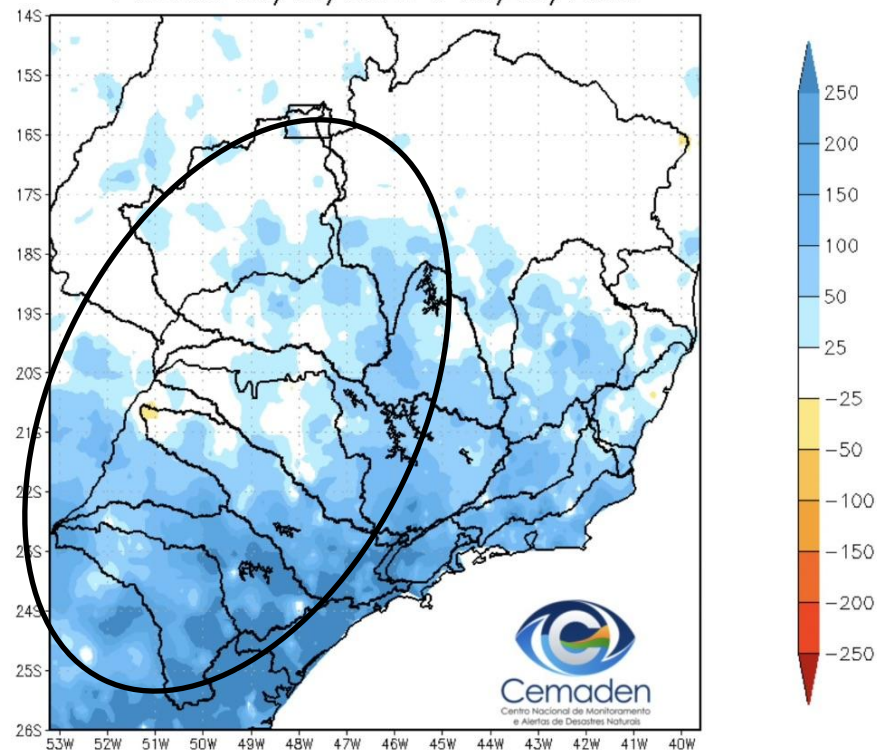


Precipitação acumulada nos últimos 30 dias

Precipitação Acumulada (mm) A.S.
Período: 23/08/2026 a 22/09/2026

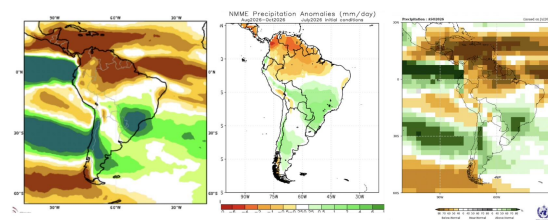


Anomalia de Precipitação (mm) A.S.
Período: 23/08/2026 a 22/09/2026



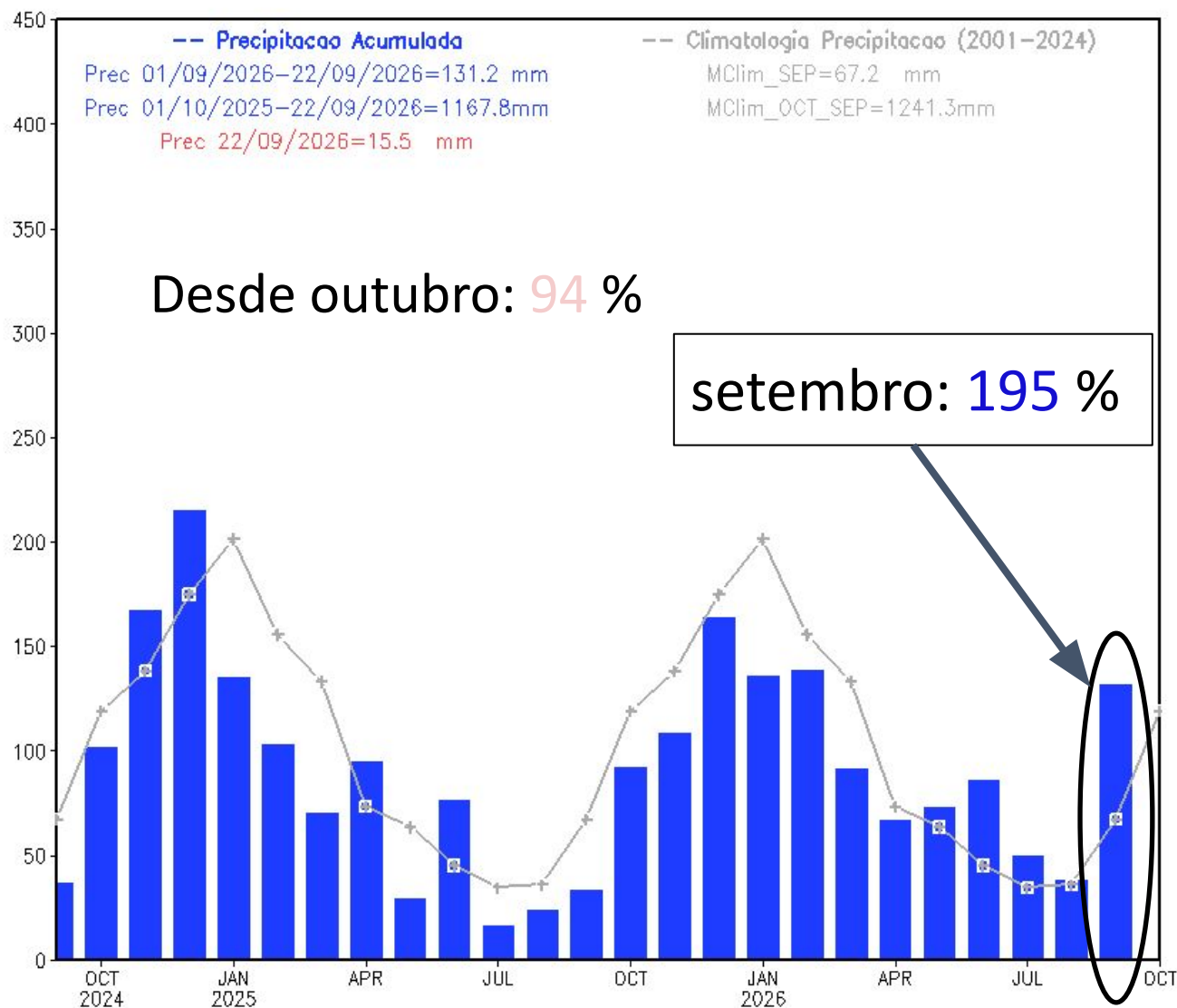
Previsão Sazonal de Chuva Multi-Modelo
Agosto-Setembro-Outubro

Apresentação de julho/26: as previsões já indicavam essa chuva acima da média, principalmente na porção sul da bacia.

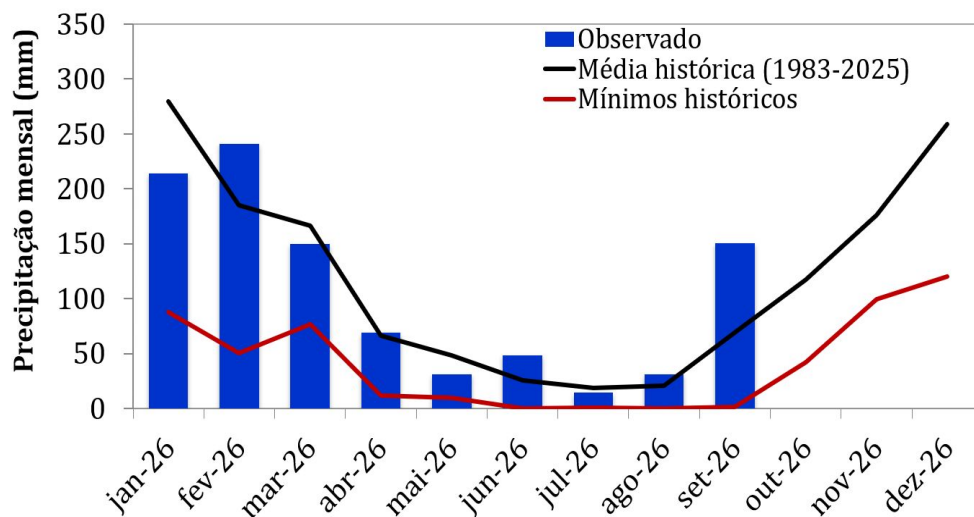


Precipitação acumulada nos últimos 24 meses

Precipitacao Bacia do Rio Parana desde SEP 2024



Monitoramento UHE Furnas



Precipitação

Estação Chuvosa - Out a Mar – 1184 mm

2024/2025: 1148 mm (**97% da MLT**)

2025/2026: 1007 mm (**85% da MLT**)

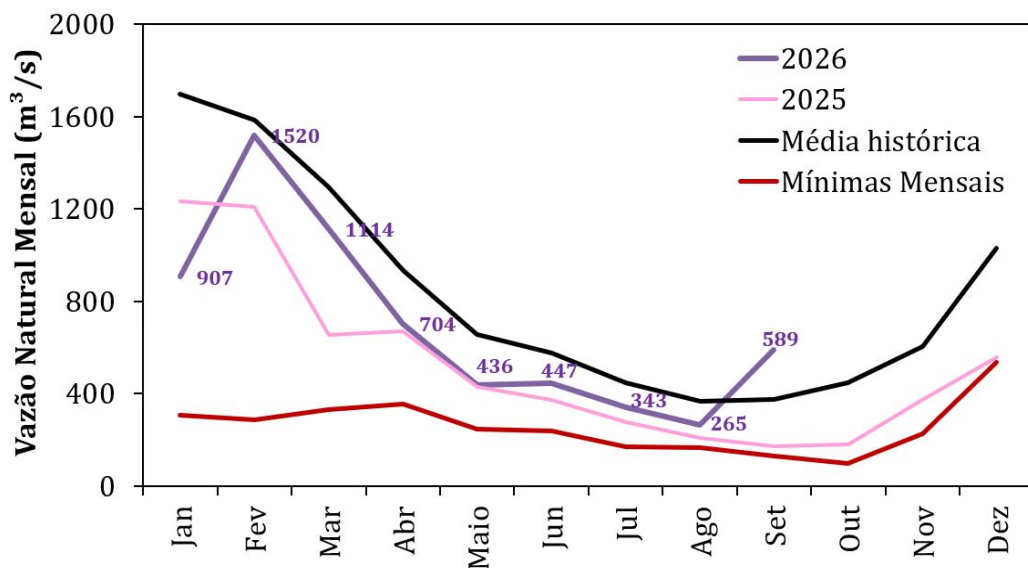
Estação Seca - Abr a Set – 248 mm

2025: 193 mm (**78% da MLT**)

2026: 345 mm (**139% da MLT**)

Set/2026*: 150 mm (219% da MLT)

*Até 22/09/2026



Vazão

Estação Chuvosa - Out a Mar – 1120 m^3/s

2024/2025: 897 m^3/s (**80% da MLT**)

2025/2026: 776 m^3/s (**69% da MLT**)

Estação Seca - Abr a Set – 546 m^3/s

2025: 356 m^3/s (**64% da MLT**)

2026**: 464 m^3/s (**83% da MLT**)

Set/26: 589 m^3/s (157% da MLT)**

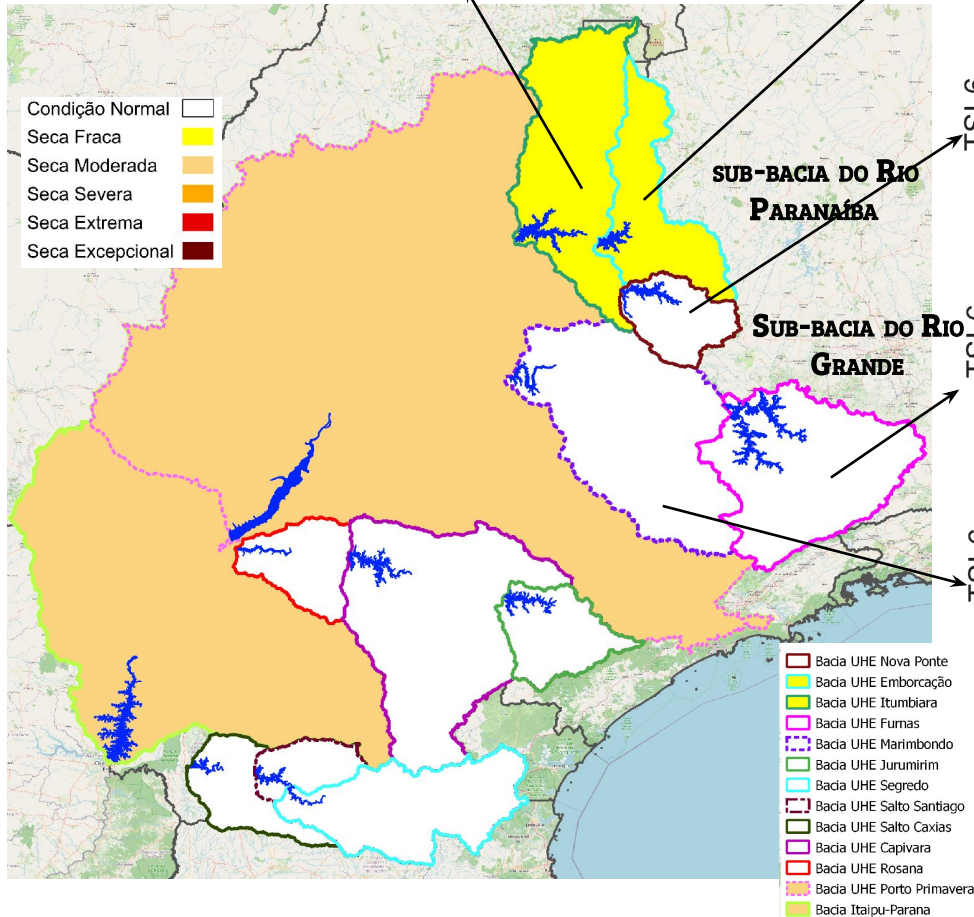
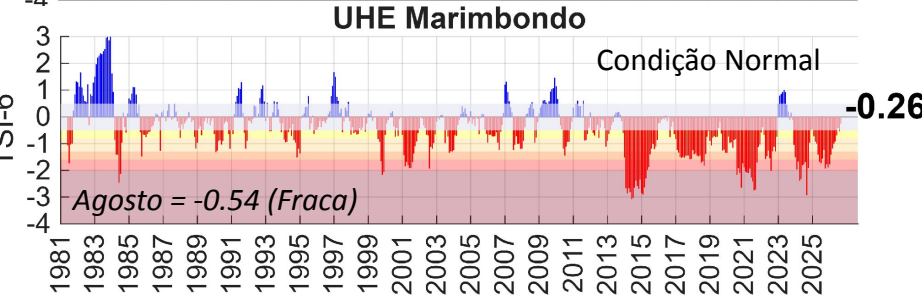
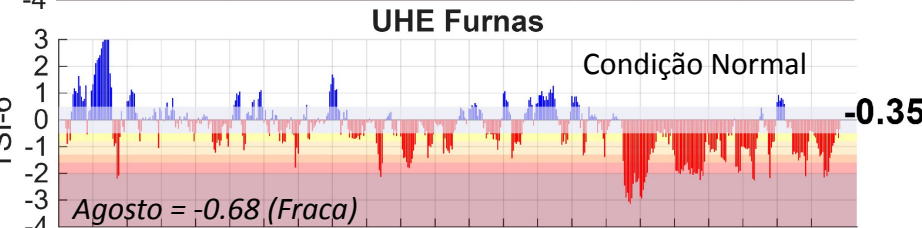
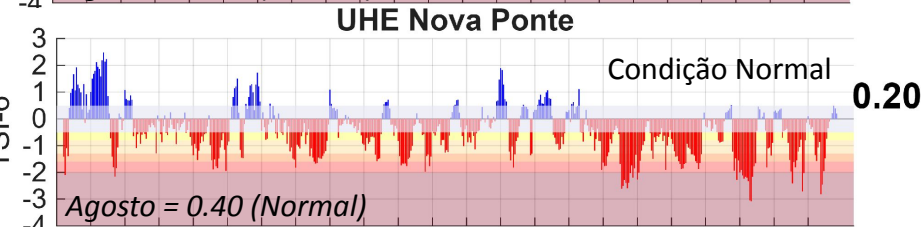
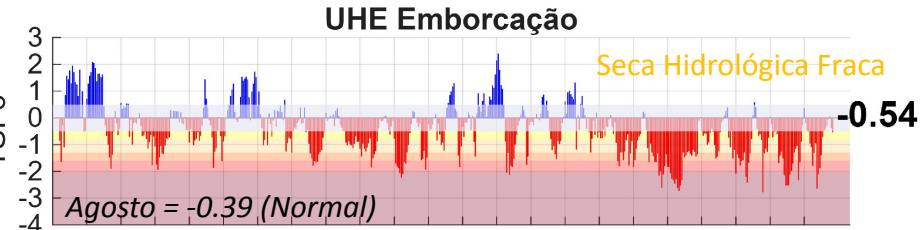
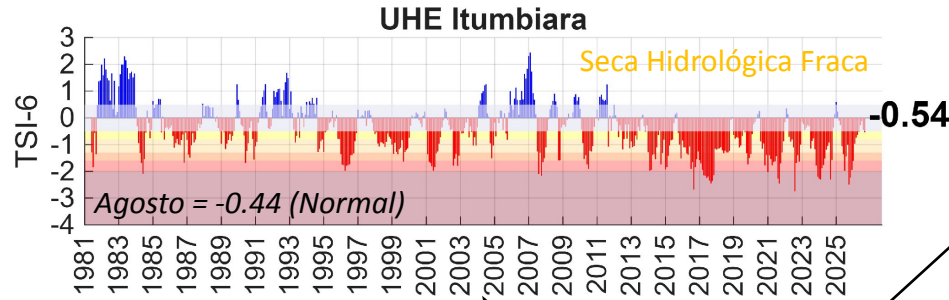
22/Set/26: 574 m^3/s (153% da MLT)

**Até 22/09/2026

CABECEIRA DO RIO PARANÁ

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

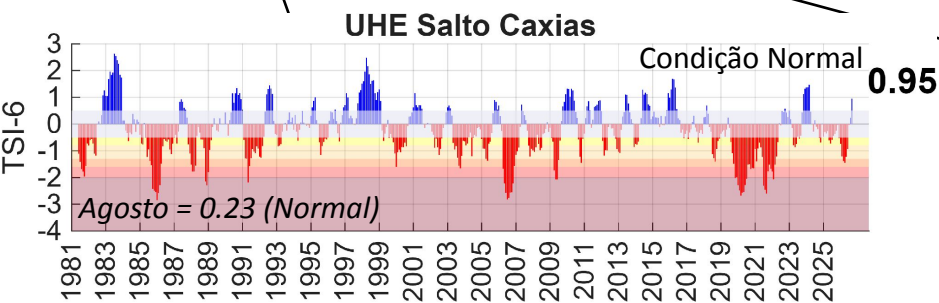
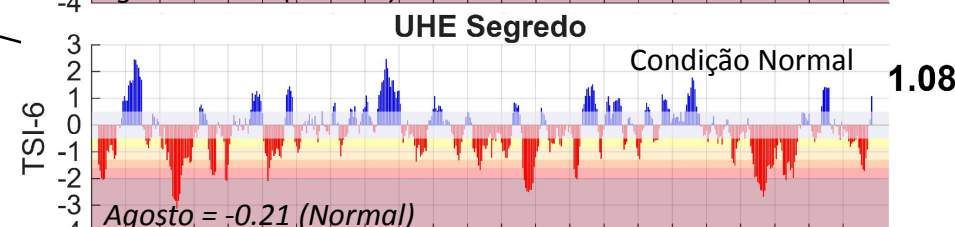
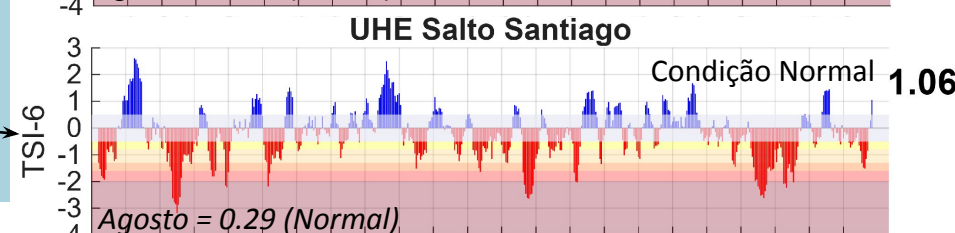
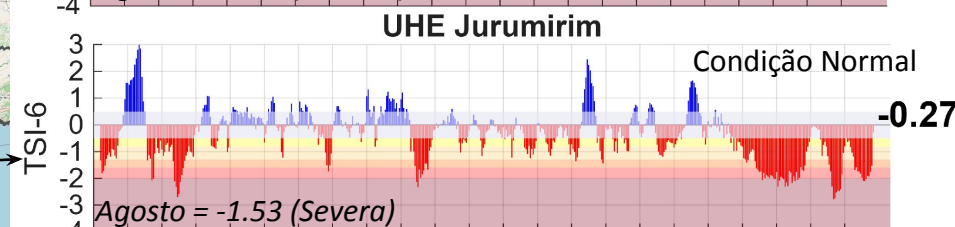
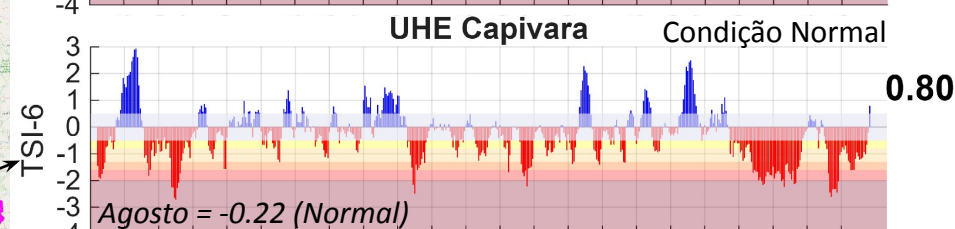
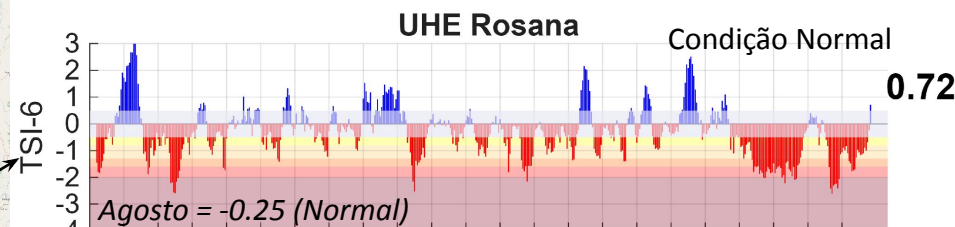
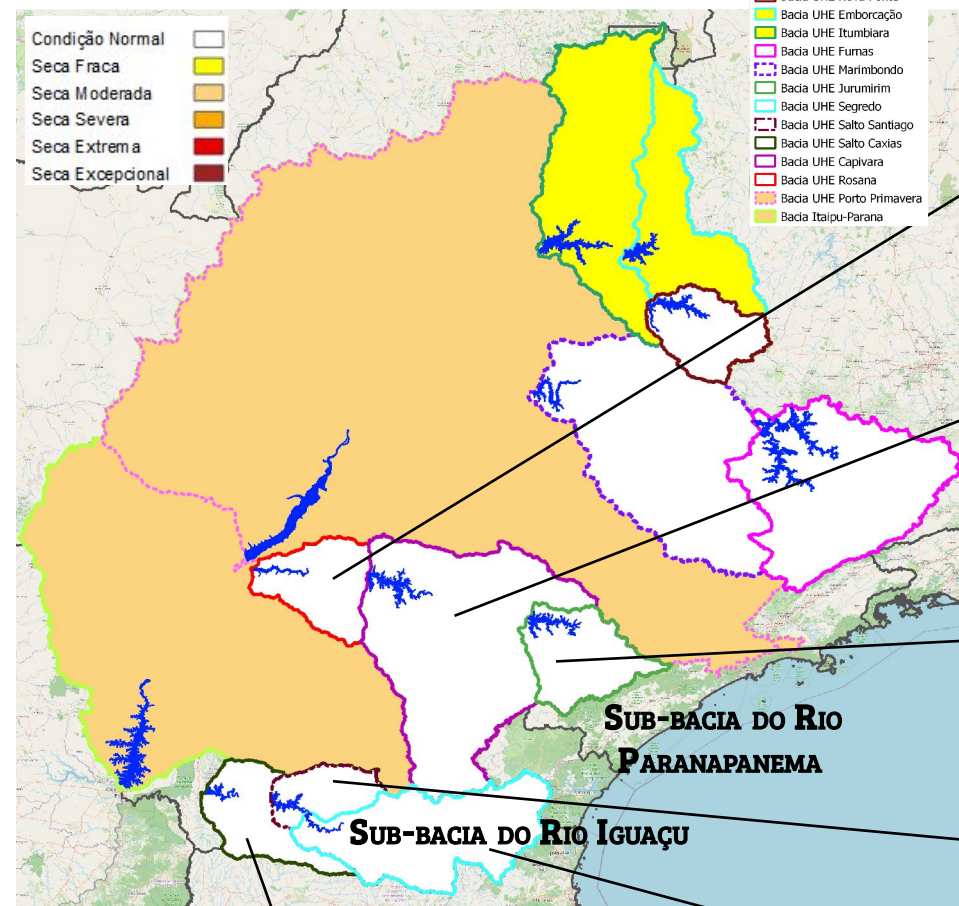
Setembro parcial - 2026



BACIAS PARANAPANEMA E IGUAÇU

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

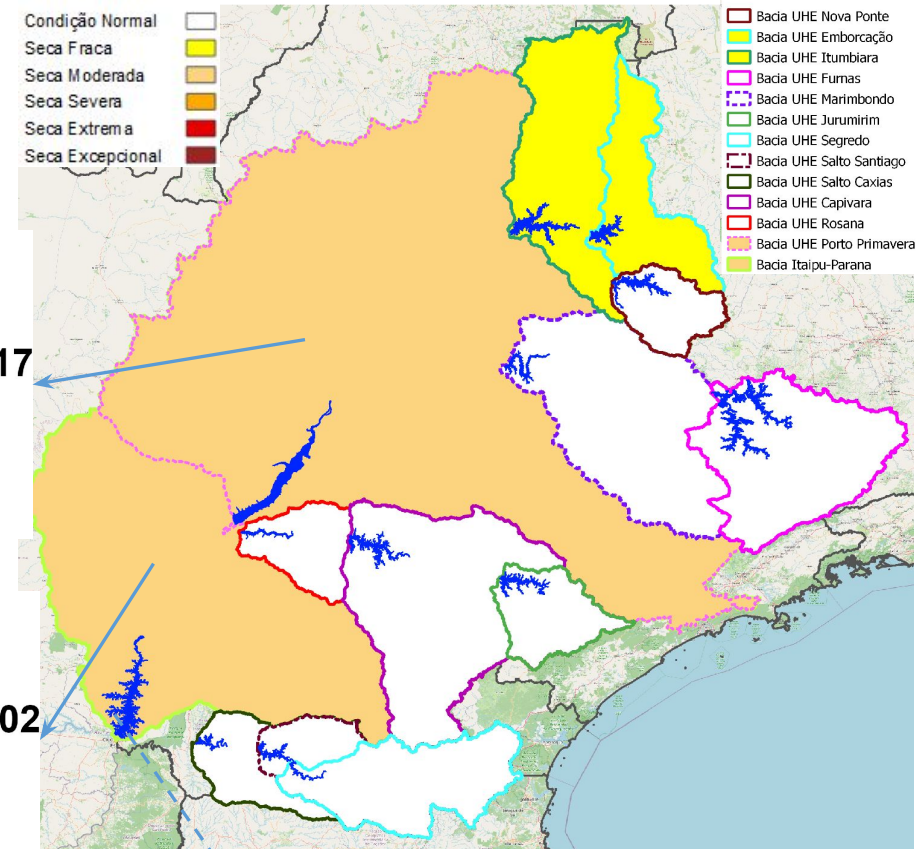
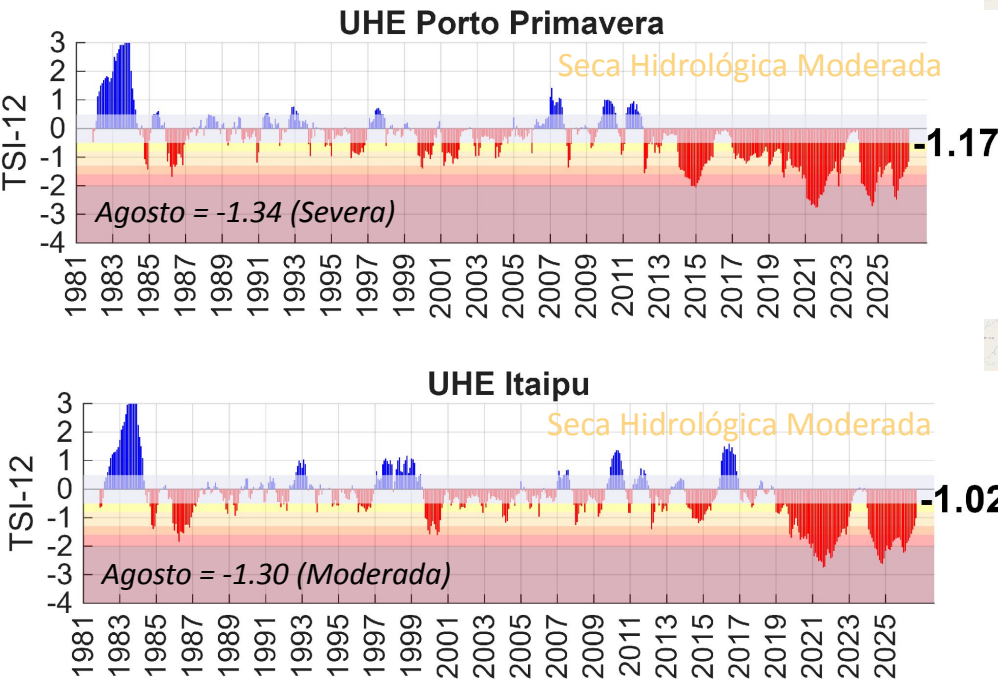
Setembro parcial - 2026



MÉDIO E BAIXO PARANÁ

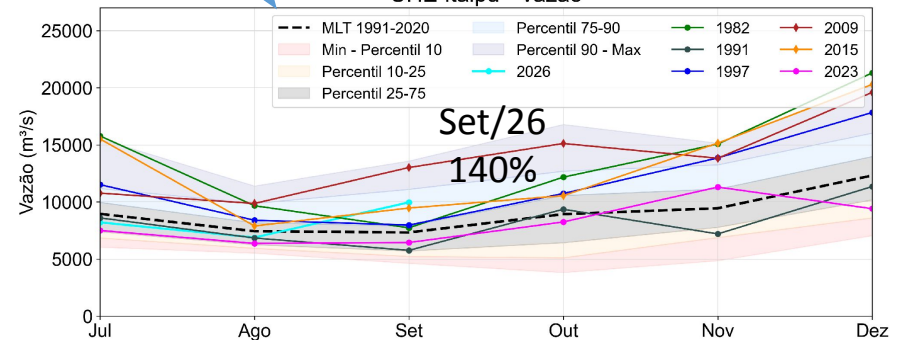
Setembro parcial - 2026

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



VAZÃO NATURAL - ITAIPU

UHE Itaipu - Vazão



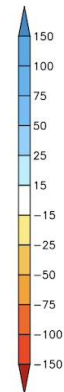
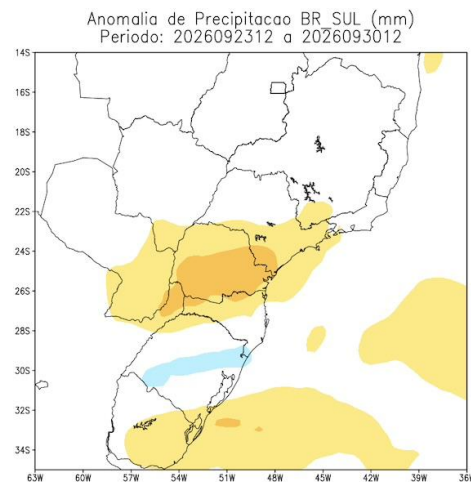
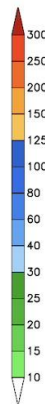
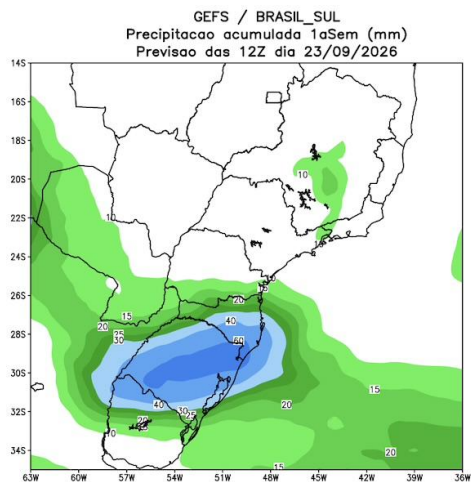
Fonte: CEMADEN/MCTI

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

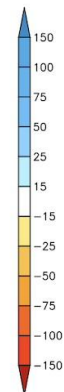
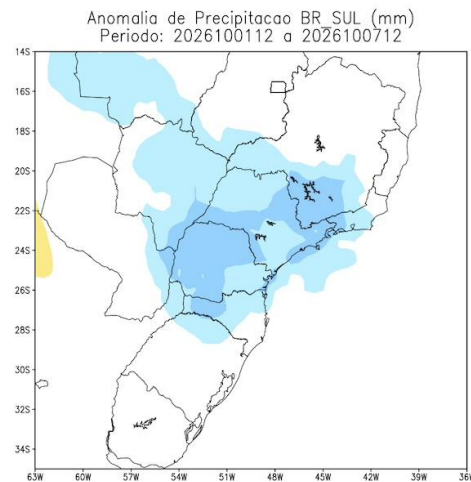
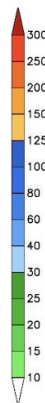
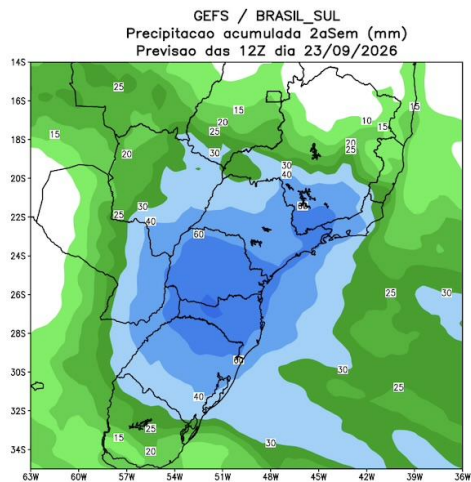
Período: Jan/1981 – Ago/2026

Previsão de chuva para a 1ª e 2ª semana

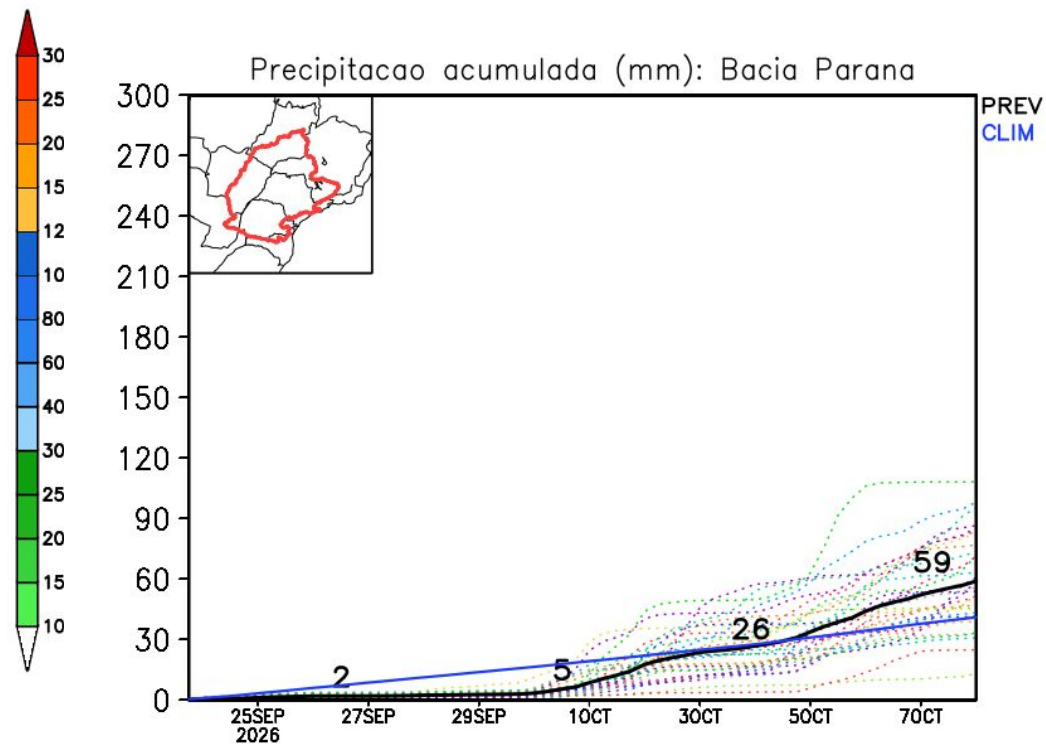
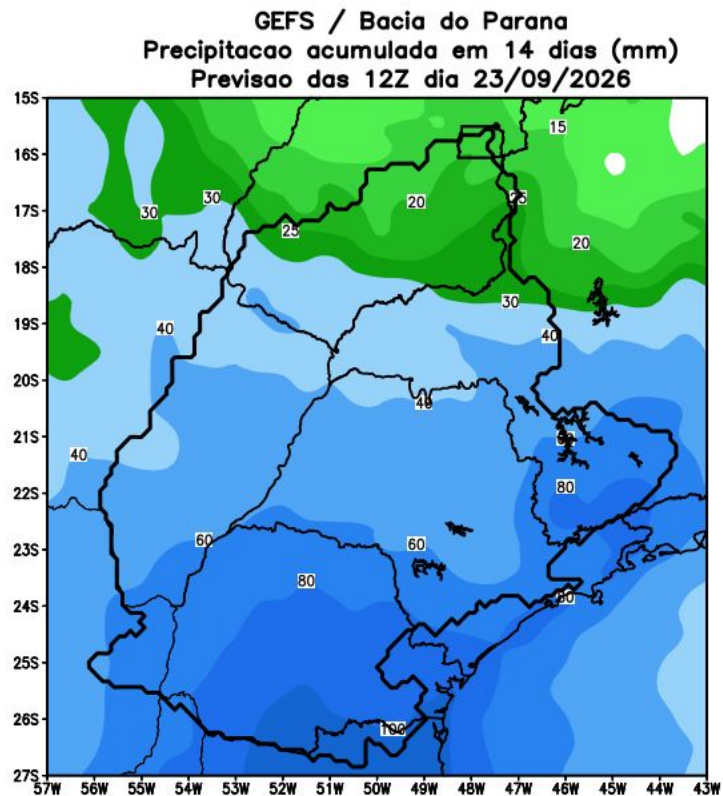
1ª semana



2ª semana

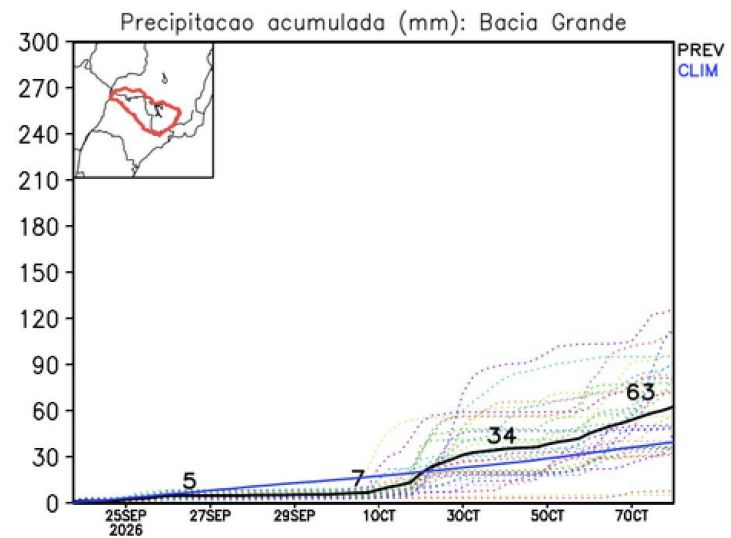
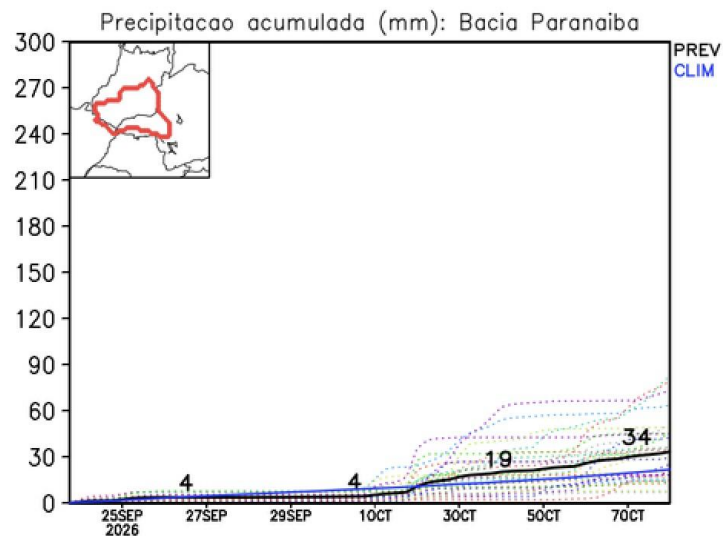
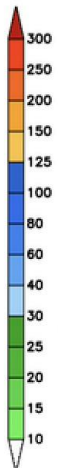
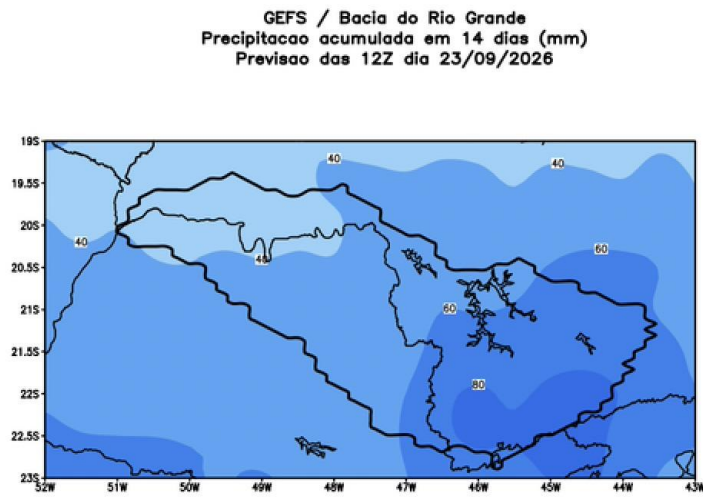
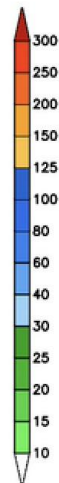
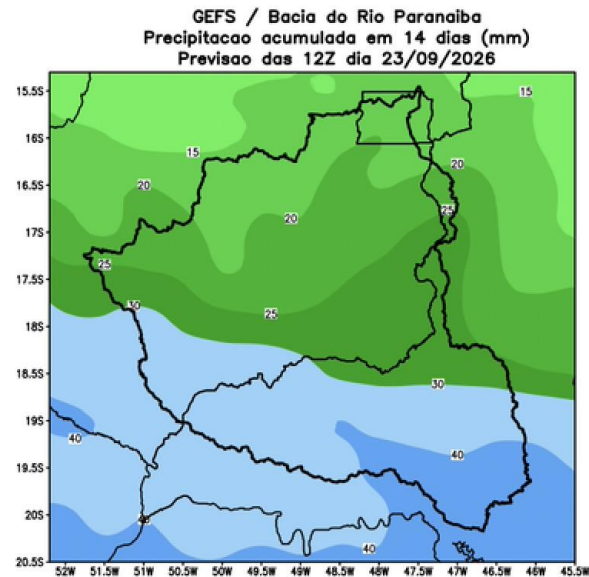


Previsão de chuva para os próximos 14 dias



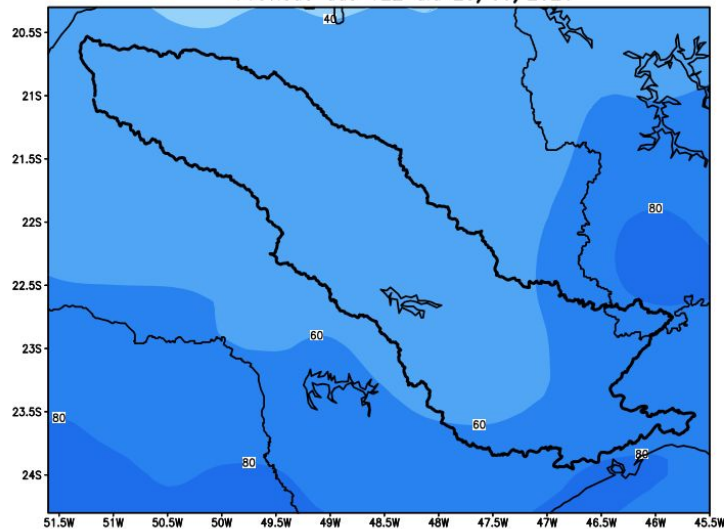
Fonte: GEFS/NOAA

Bacia do rios Paranaíba e Grande

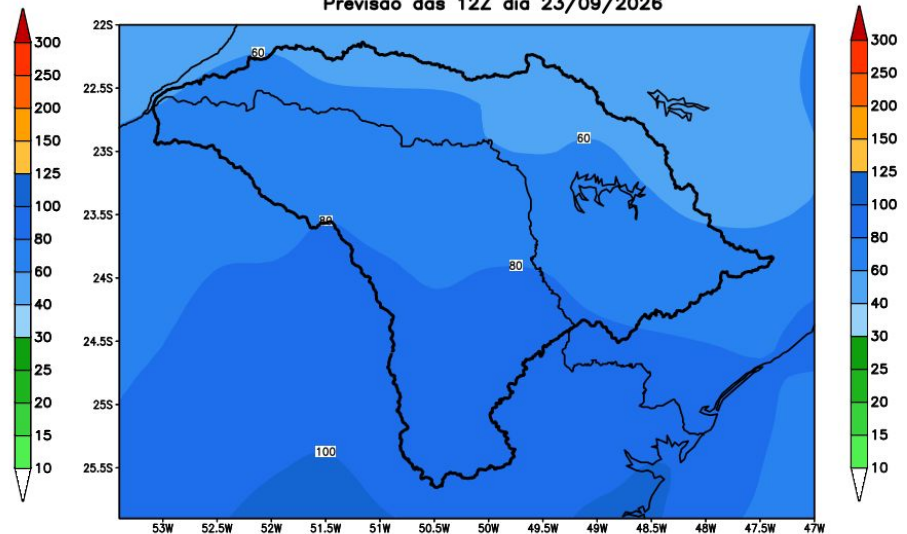


Bacia do rios Tietê e Paranapanema

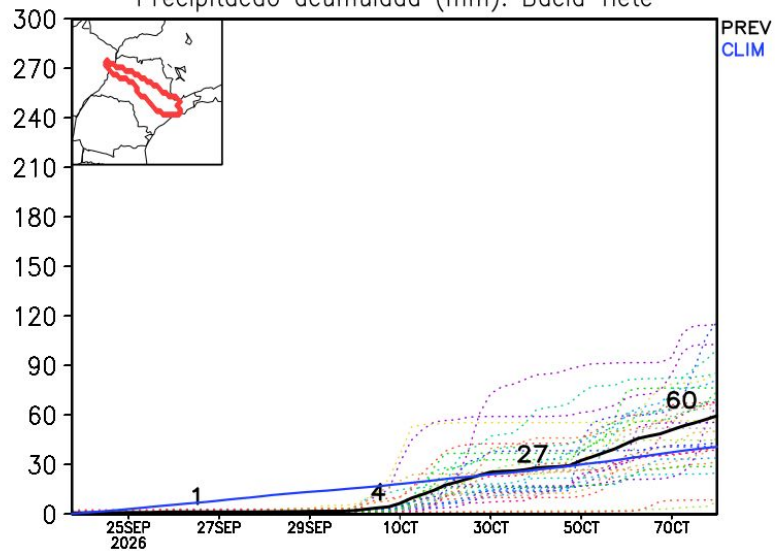
GEFS / Bacia do Rio Tiete
Precipitacao acumulada em 14 dias (mm)
Previsao das 12Z dia 23/09/2026



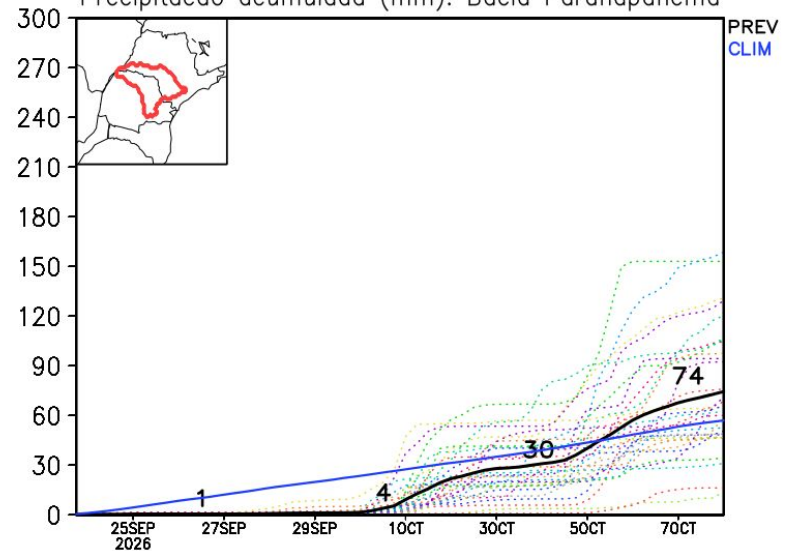
GEFS / Bacia do Rio Paranapanema
Precipitacao acumulada em 14 dias (mm)
Previsao das 12Z dia 23/09/2026



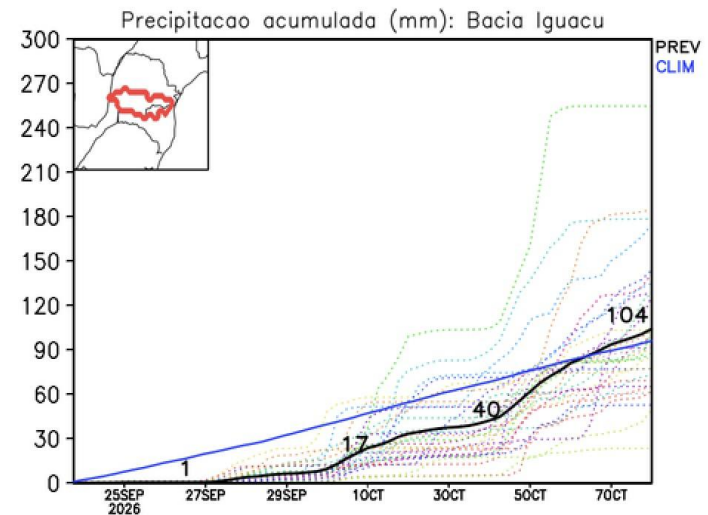
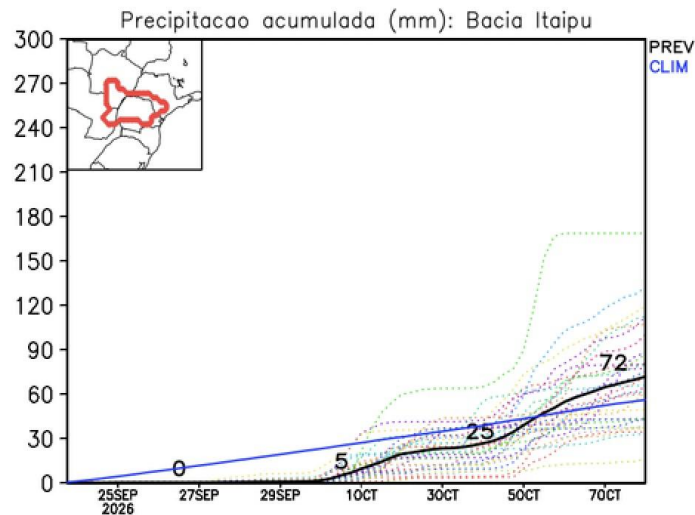
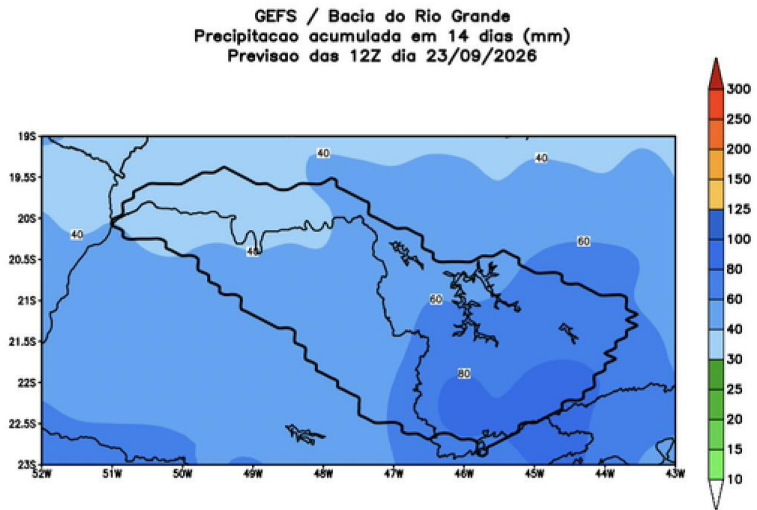
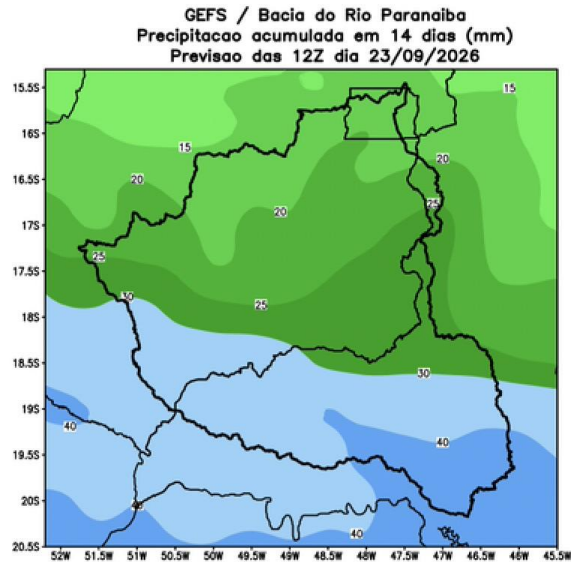
Precipitacao acumulada (mm): Bacia Tiete



Precipitacao acumulada (mm): Bacia Paranapanema

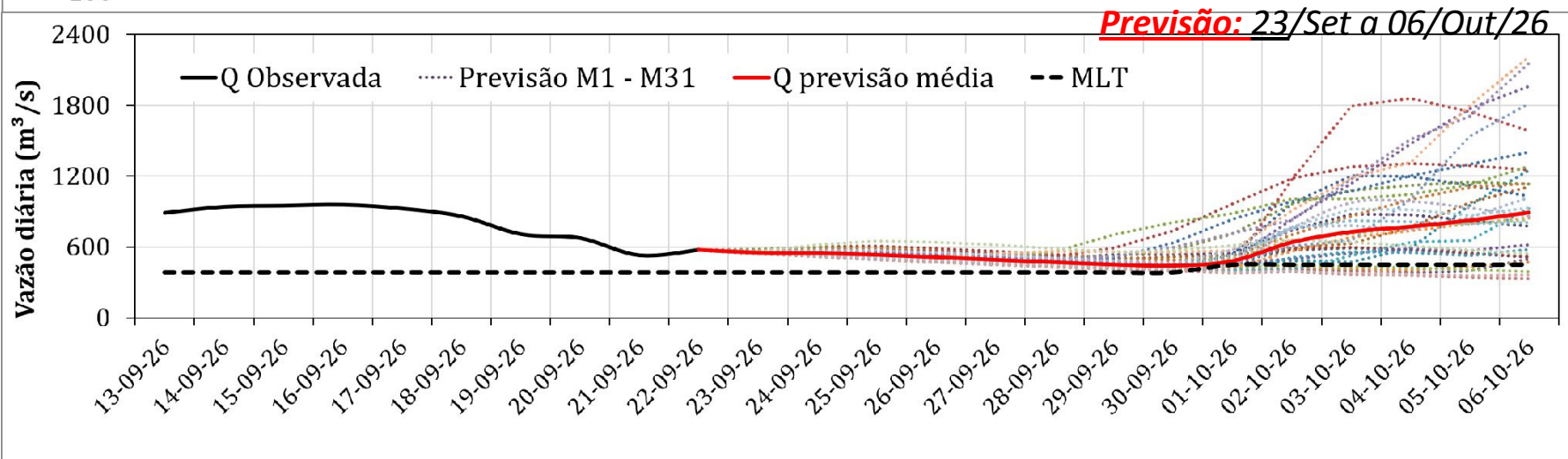
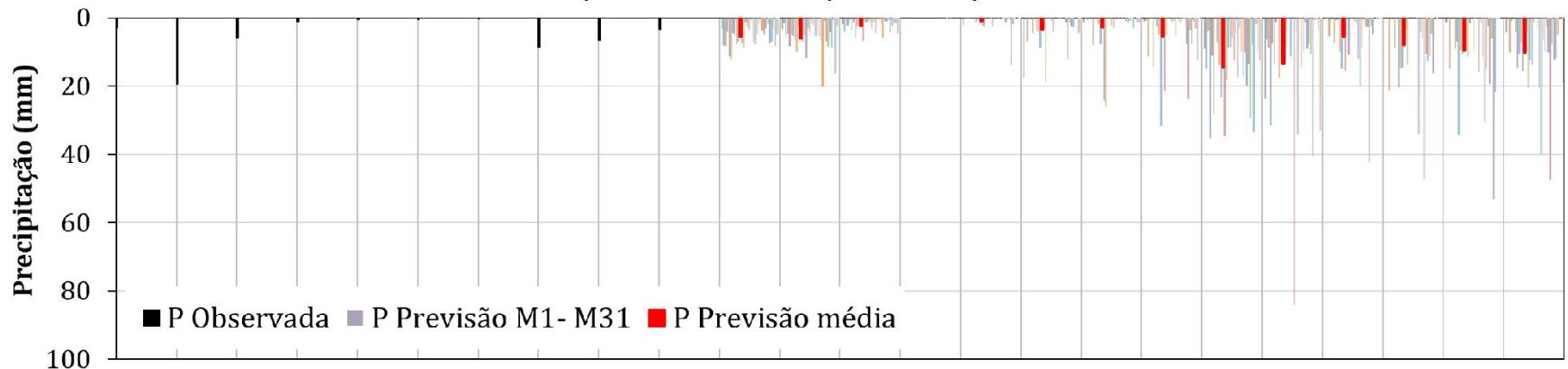


Bacia do Itaipu e Iguaçu



Furnas: Previsão de Vazão para próximos 14 dias (modelo hidrológico PDM-CEMADEN)

Vazão Natural e Precipitação Diárias para Furnas
13/Setembro a 06/Octubro/2025



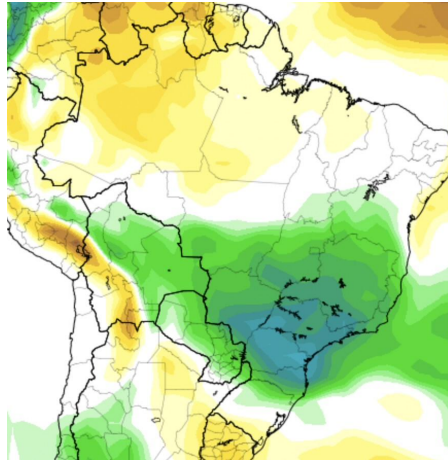
Previsão média para os
próximos 14 dias: 594 m^3/s



154% MLT Setembro
132% MLT Outubro

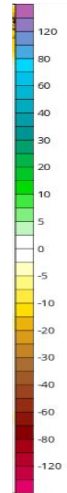
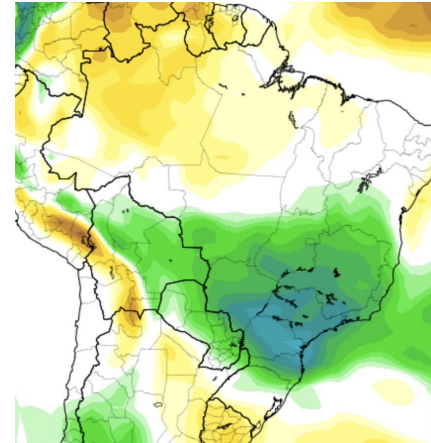
Anomalia de Chuva 3a e 4a semanas

06-12 outubro

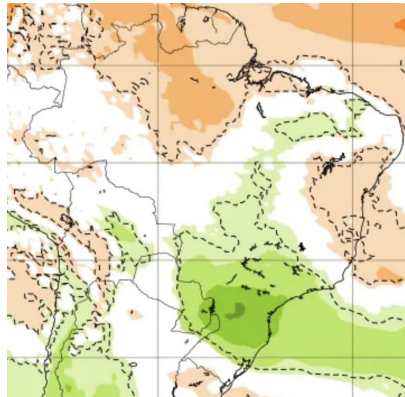


Centro Americano
CFS/NOAA

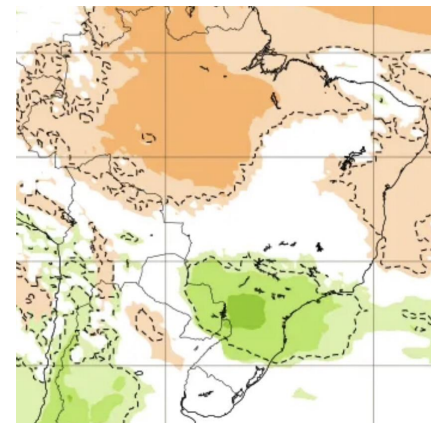
13 - 18 outubro



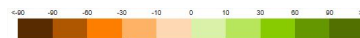
Centro Europeu
ECMWF



05-11 outubro



12-18 outubro



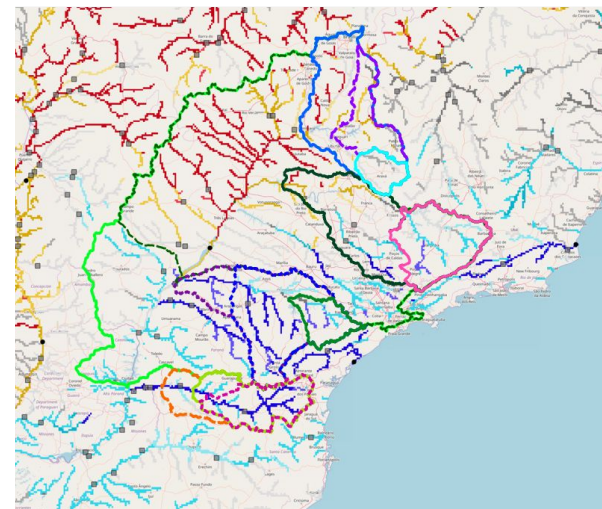
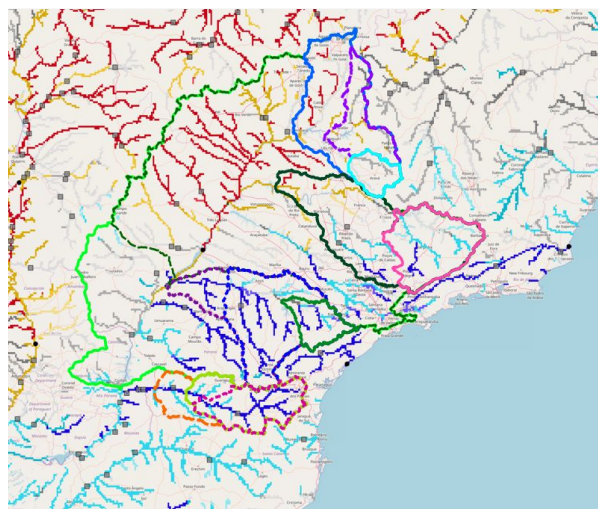
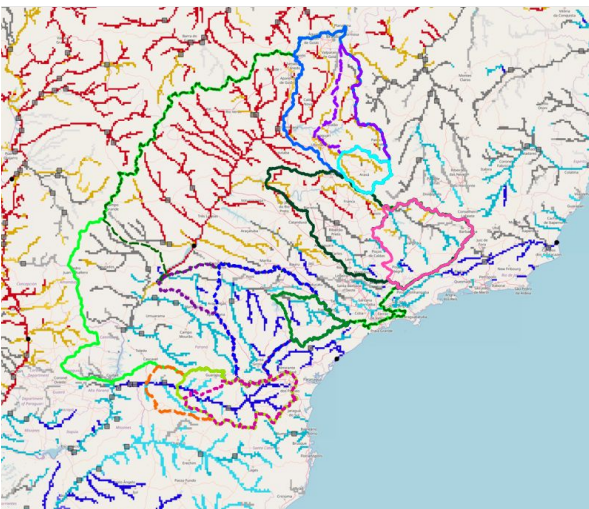
Previsão Sub-sazonal (45 dias) para a Bacia do Rio Paraná (Sistema Global de Previsão de Vazão - GloFAS)

Previsão: 28/09/2026 – 02/10/2026

28/09/2026-05/10/2026

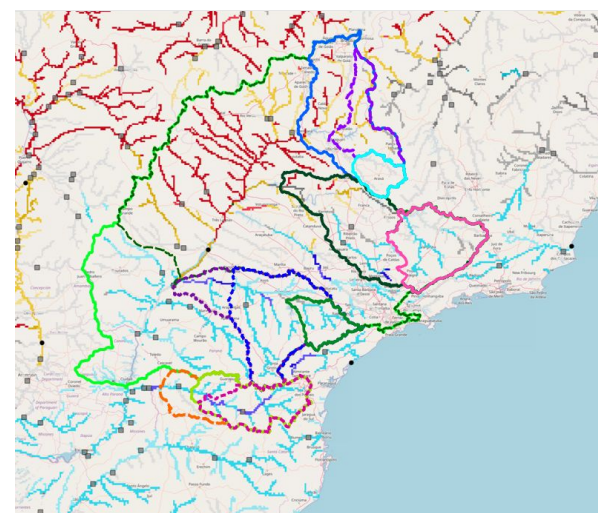
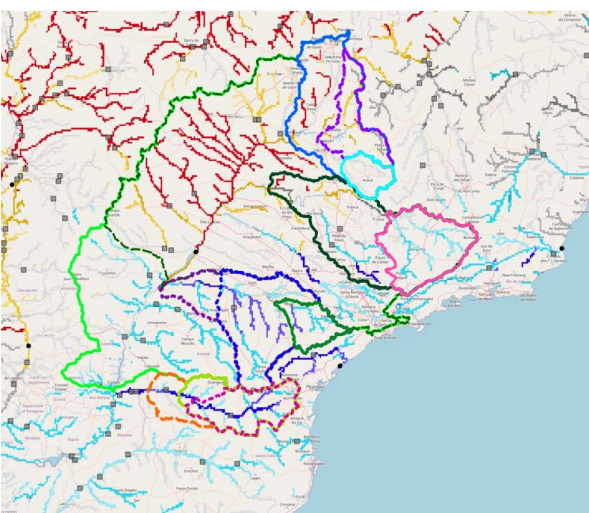
06/10/2026-12/10/2026

13/10/2026-19/10/2026



20/10/2026-26/10/2026

27/10/2026-02/11/2026



- 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 de vazões (percentil)

- Muito abaixo (1-10)
- Abaixo (10-25)
- Média (25-75)
- Acima (75-90)
- Muito acima (90-100)

Categoria de incerteza

- | Baixa (0-10) | Média (10-20) | Alta (<20) |
|----------------------|---------------|------------|
| Muito abaixo (1-10) | | |
| Abaixo (10-25) | | |
| Média (25-75) | | |
| Acima (75-90) | | |
| Muito acima (90-100) | | |

Fonte: Previsão Meteorológica: ECMWF

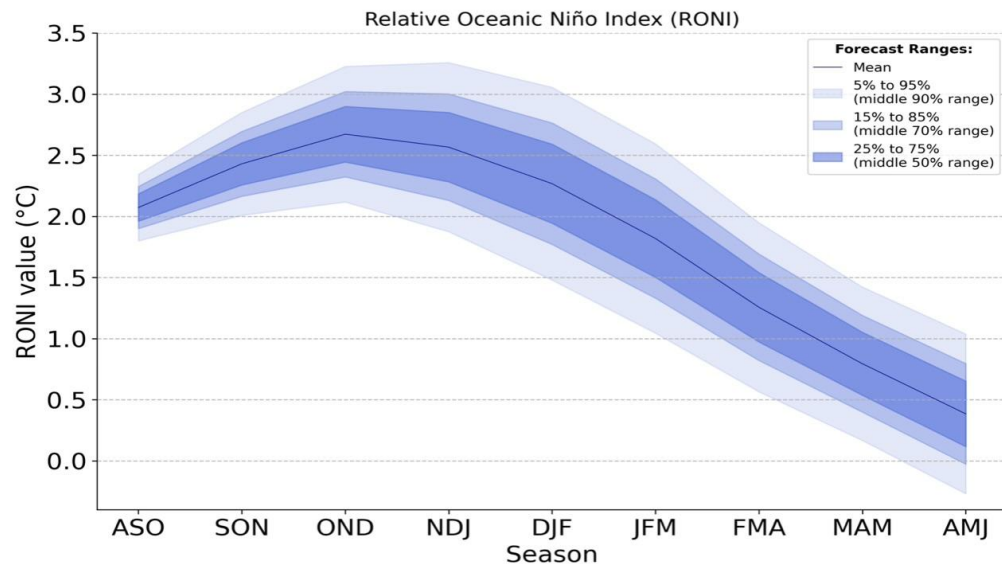
Previsão de vazão: Lisflood/GloFAS Forecast

<https://www.globalfloods.eu/glofas-forecasting/>



Previsão do “El Niño / La Niña”

NOAA CPC Official ENSO Outlook (issued September 2026)



Pico em outubro-novembro-dezembro

- pode passar de +2.5 °C

El Niño já na segunda semana dentro da categoria mais intensa, e ganhando força: **"MUITO FORTE"**.

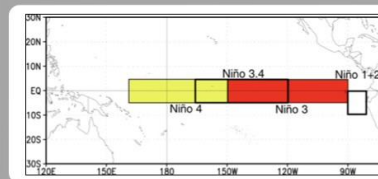
Boletim de 21 de setembro/2026

Fonte: NOAA

The latest weekly SST departures are:

Niño 4	0.0°C
Niño 3.4	2.1°C
Niño 3	3.0°C
Niño 1+2	3.9°C

+2.1° C



Importante: influência do E Niño no clima se dá mesmo quando eles está terminando e até meses depois.

Previsão Sazonal de Chuva Multi-Modelo

Outubro-Novembro-Dezembro

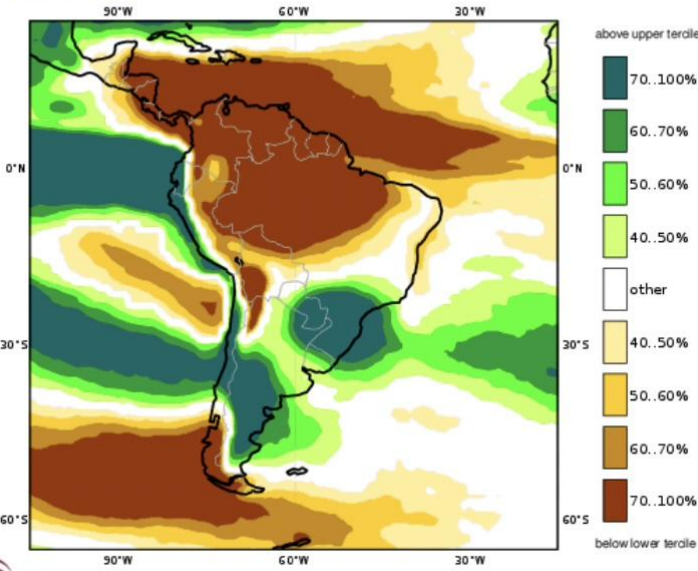
C3S multi-system seasonal forecast

Prob(most likely category of precipitation)

Nominal forecast start: 01/09/26

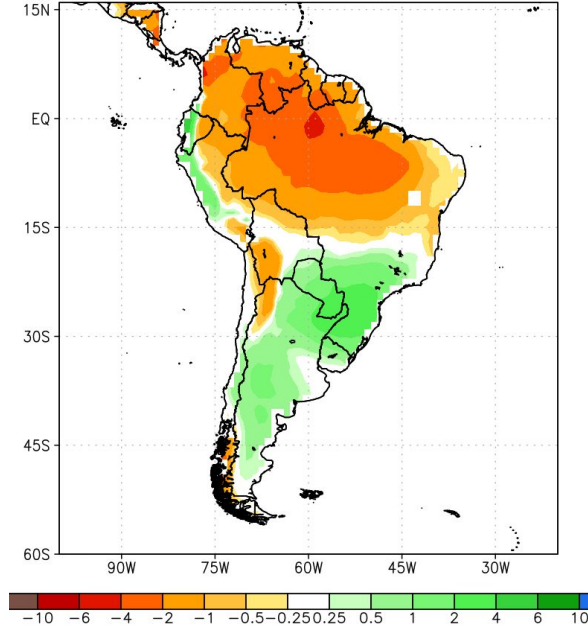
Unweighted mean

OND 2026



Modelos “Europeus”

NMME Precipitation Anomalies (mm/day)
Oct2026–Dec2026 September2026 initial conditions



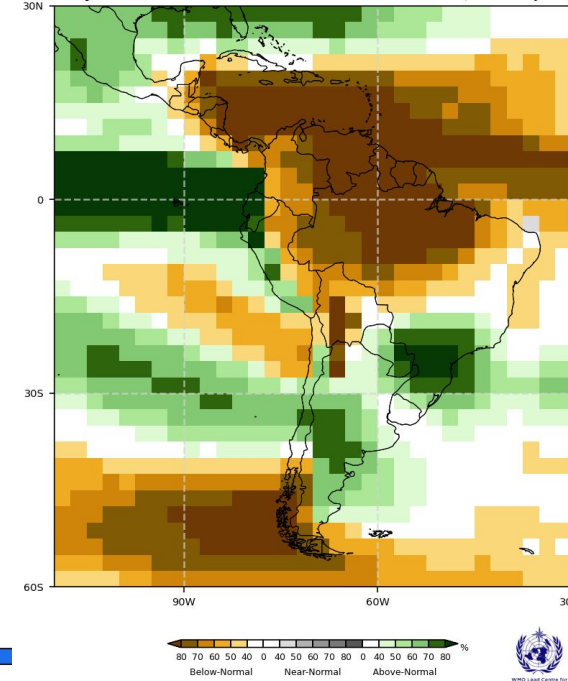
Modelos Norte Americanos

Probabilistic Multi-Model Ensemble Forecast

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

Precipitation : OND2026

(issued on Sep2026)

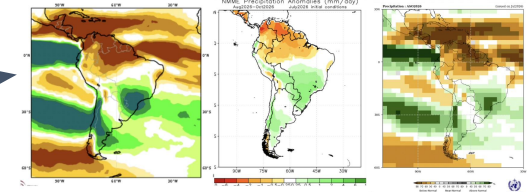


Países da Organização Meteorológica Mundial

previsão apresentado na reunião de 30 de julho:
já mostrava chuvas acima da média na porção sul da
bacia no trimestre agosto-setembro-outubro.

Previsão Sazonal de Chuva Multi-Modelo

Agosto-Setembro-Outubro



Modelos “Europeus”

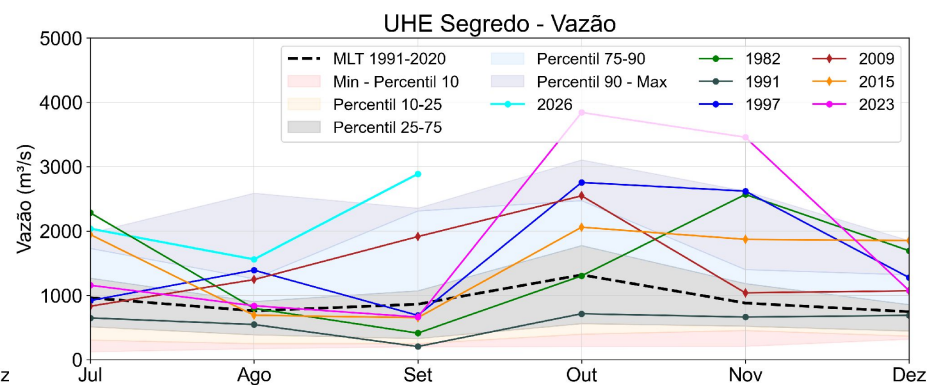
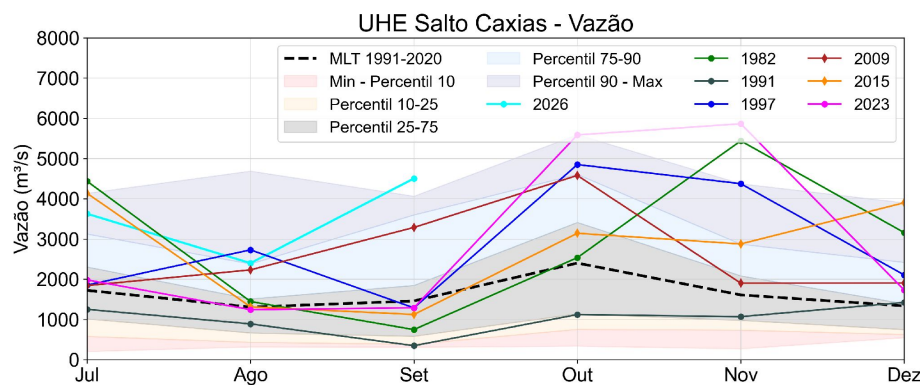
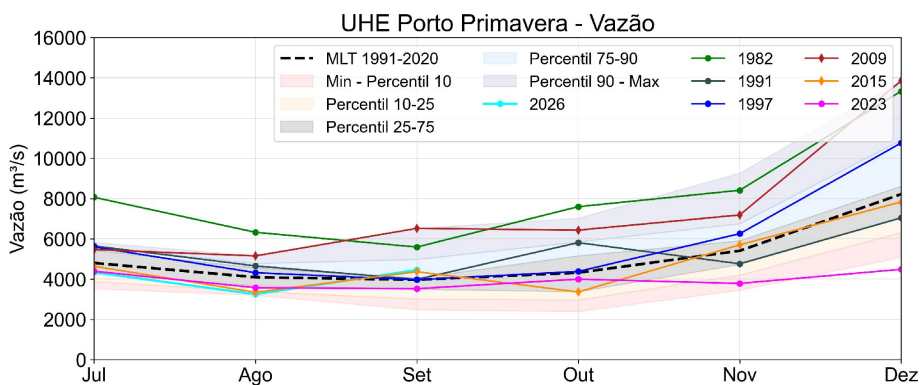
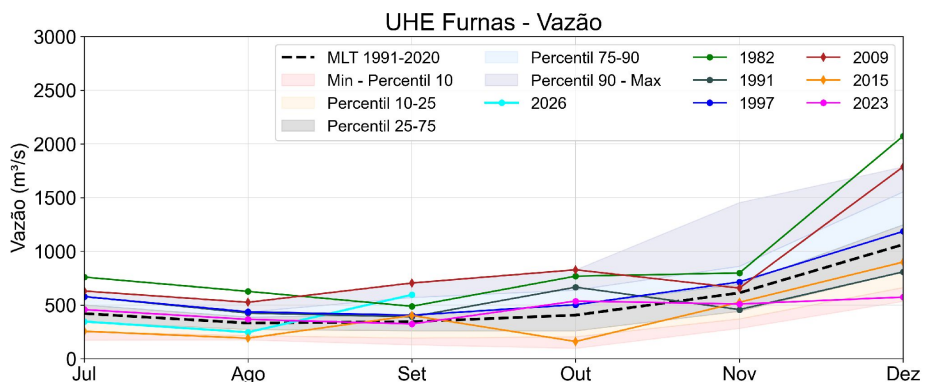
Modelos Norte Americanos

Modelos da WMO

Anos análogos de El Niño

Trimestre OND

- 1982
- 1991
- 1997
- 2009
- 2015
- 2023



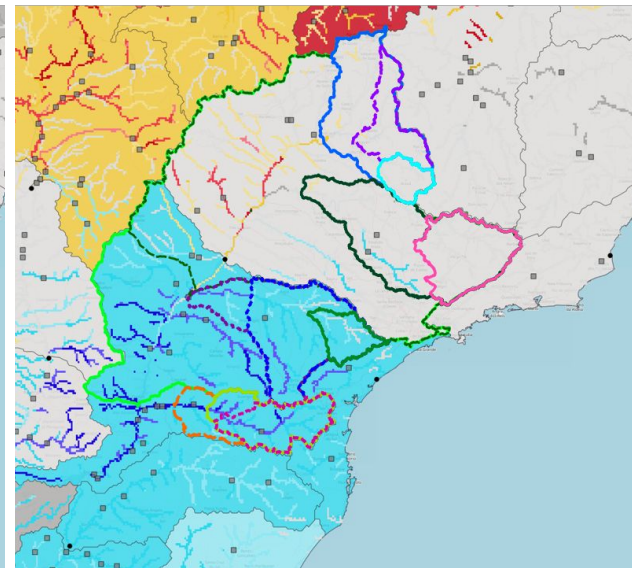
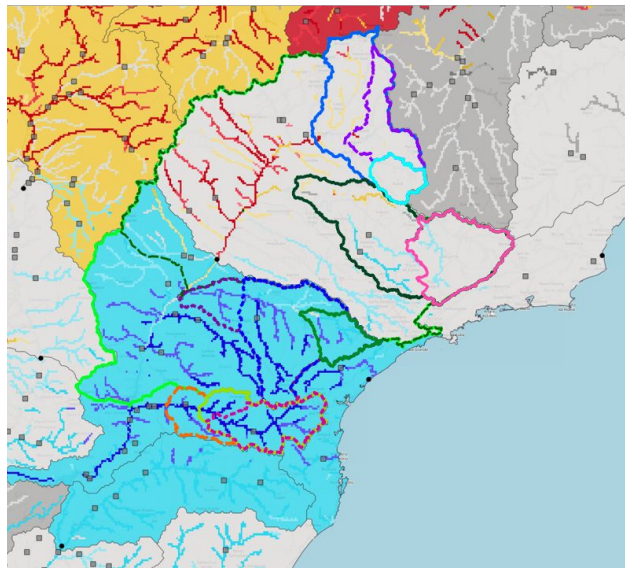
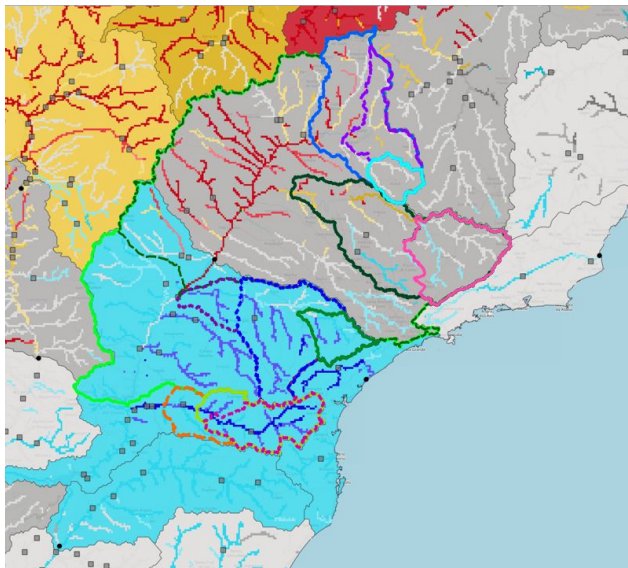
Previsão Sazonal (OND) para a Bacia do Rio Paraná (Sistema Global de Previsão de Vazão - GloFAS)

Previsão: Outubro, Novembro e Dezembro de 2026

Outubro

Novembro

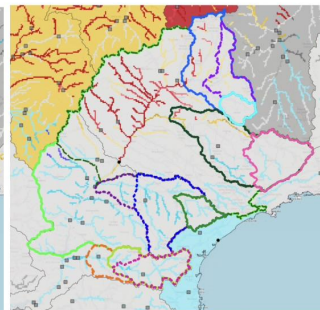
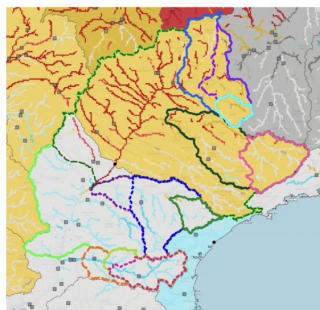
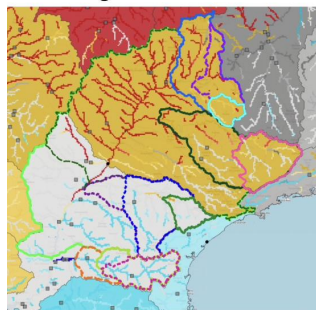
Dezembro



Agosto

Setembro

Outubro



previsão
apresentada
em julho.

Fonte: Previsão Meteorológica: ECMWF

Previsão de vazão: Lisflood/GloFAS Forecast

<https://www.globalfloods.eu/glofas-forecasting/>



- 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
de vazões (percentil)

Muito abaixo (1-10)

Abaixo (10-25)

Média (25-75)

Acima (75-90)

Muito acima (90-100)

Categoria de incerteza

Baixa (0-10) Média (10-20) Alta (<20)

Baixa (0-10)

Média (10-20)

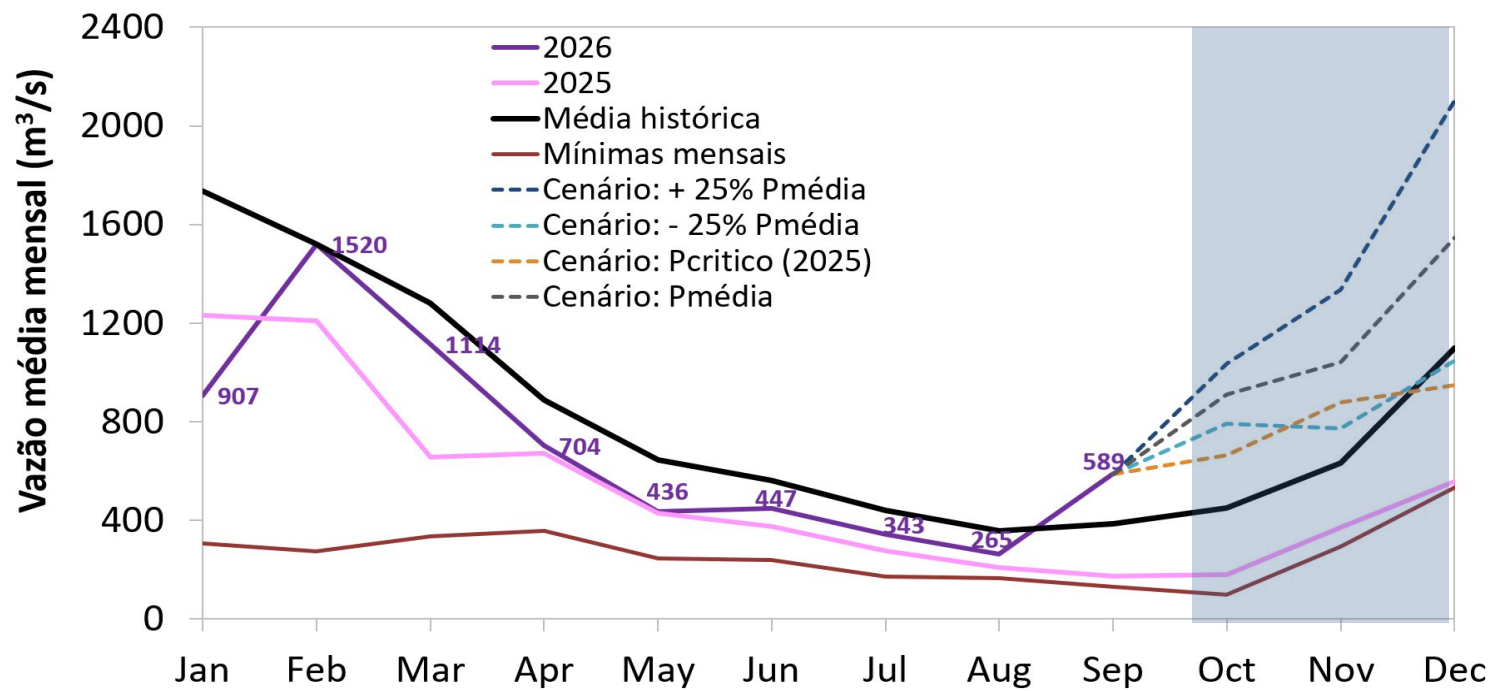
Alta (<20)

Baixa (0-10)

Média (10-20)

Alta (<20)

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



Out-Dez (Meses Chuvosos)

MLT: 727 m³/s

Vazão	%
1491 m³/s	205%
1167 m³/s	160%
870 m³/s	120%
831 m³/s	114%