



CEMADEN

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

Monitoramento e Previsões do rio Tocantins

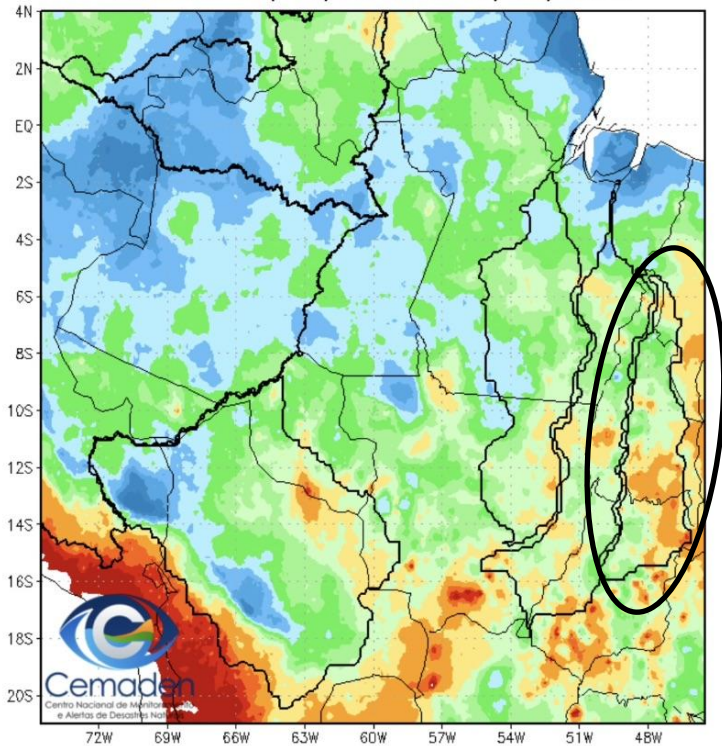
Setembro de 2026



Precipitação acumulada no Ano Hidrológico desde 01 de outubro

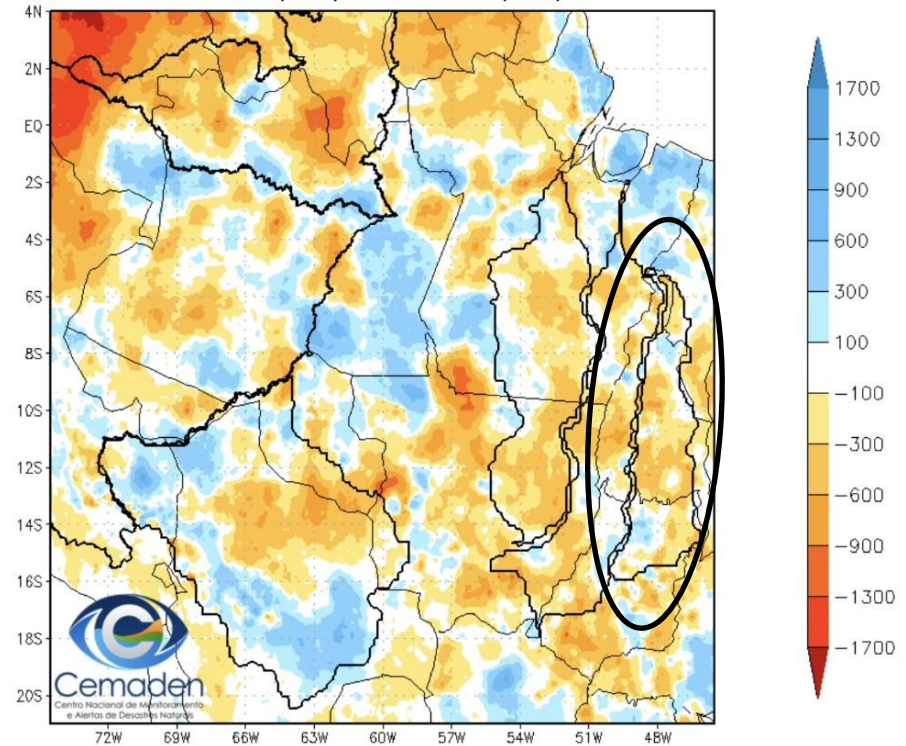
chuva acumulada

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



anomalia da chuva

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

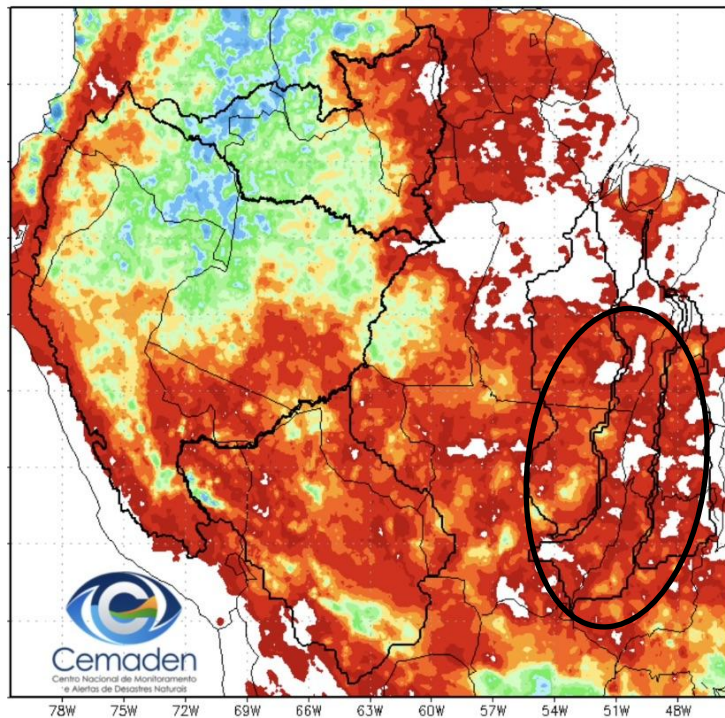


Fonte dos dados: Merge/INPE

Precipitação acumulada últimos 30 dias

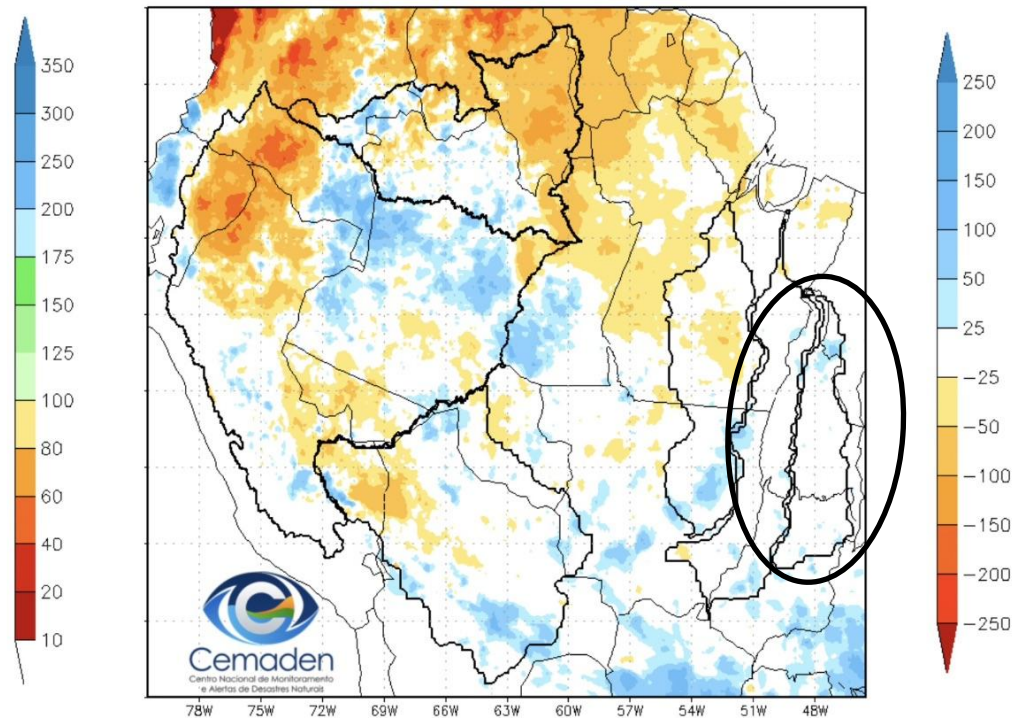
chuva acumulada

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



anomalia da chuva

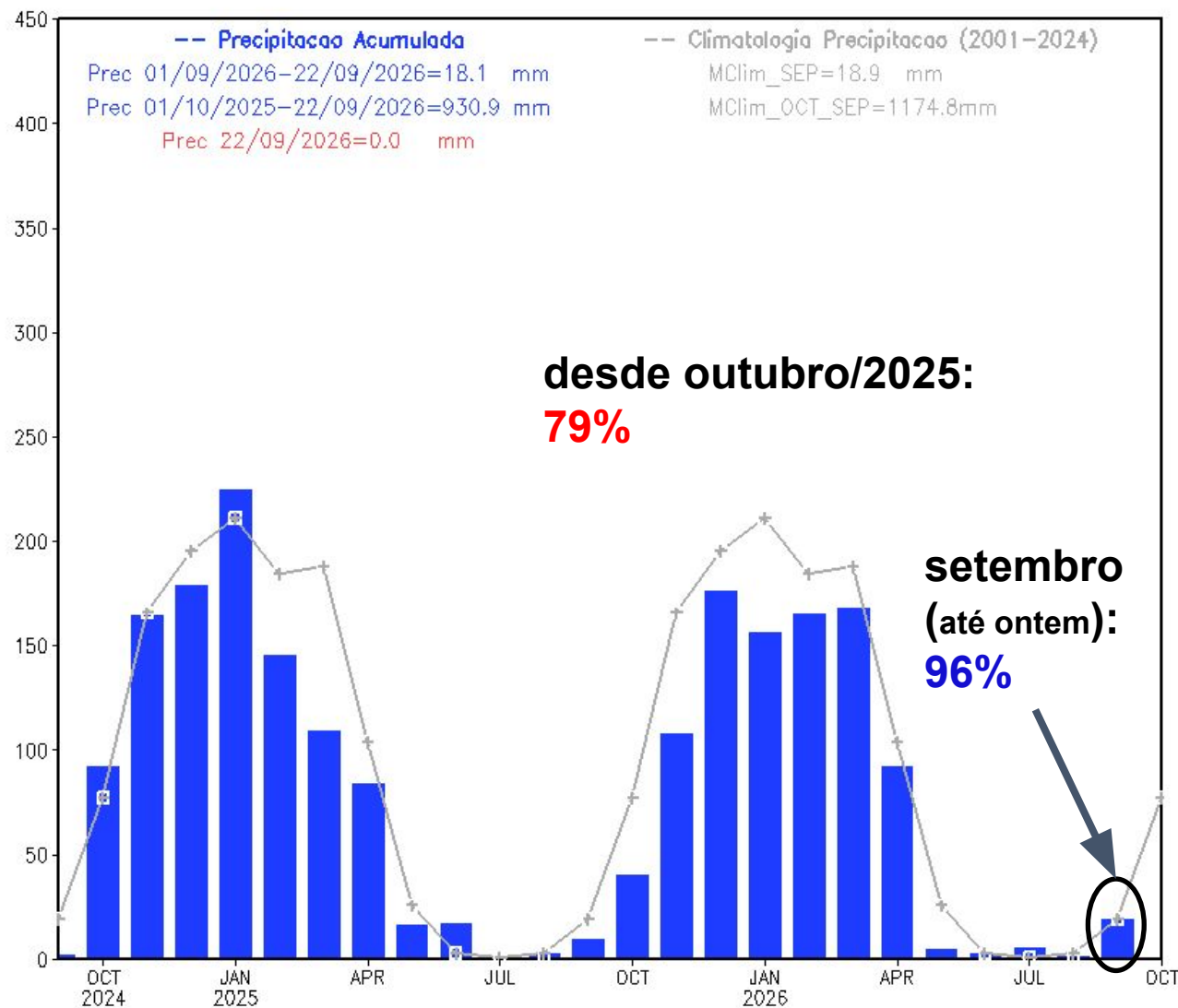
Anomalia de Precipitação (mm) A.S.
Período: 23/08/2026 a 22/09/2026



Fonte dos dados: Merge/INPE

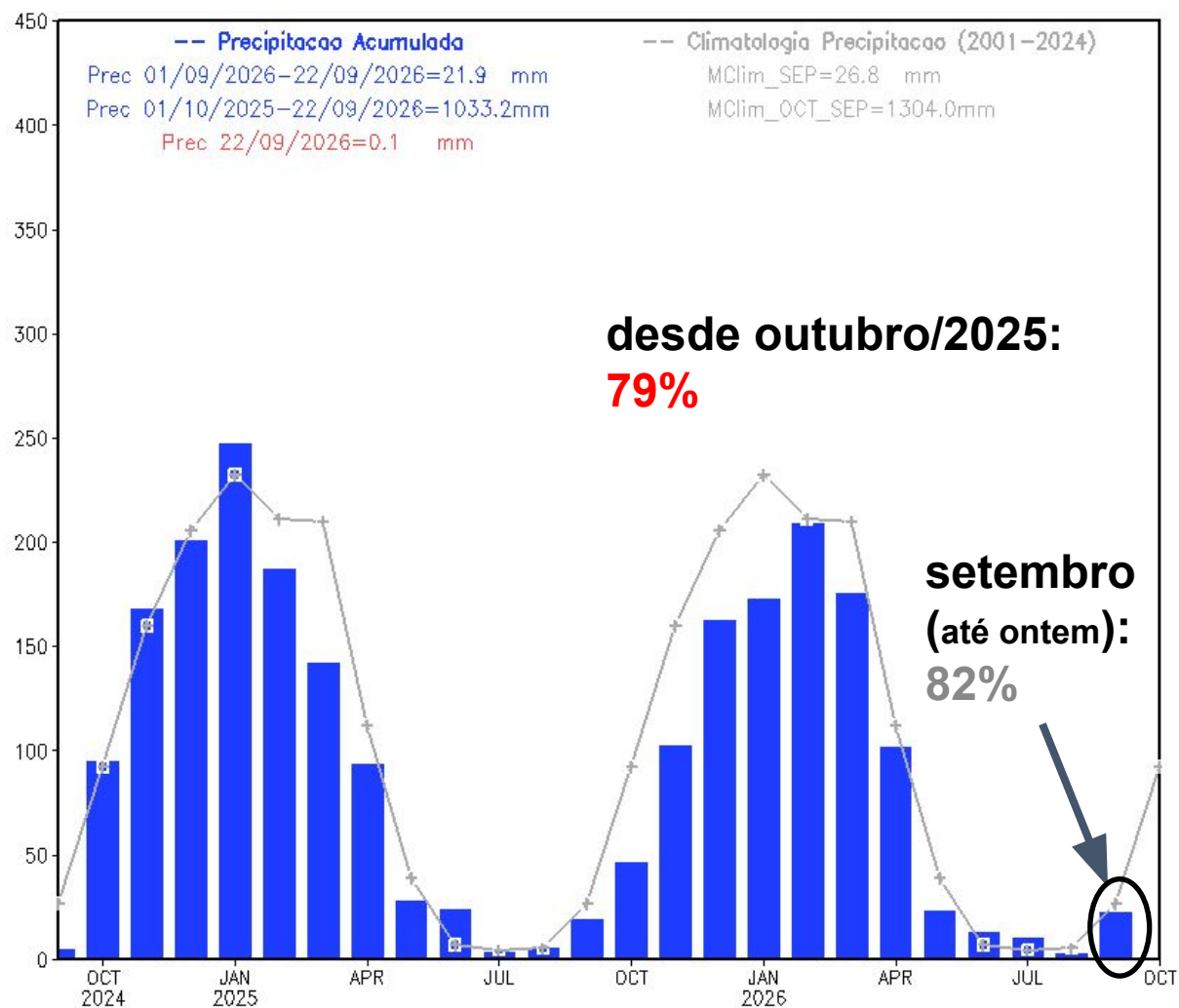
Precipitação Acumulada nos últimos Dois Anos

Precipitação Bacia do Rio Tocantins
desde SEP 2024



Precipitação Acumulada nos últimos Dois Anos

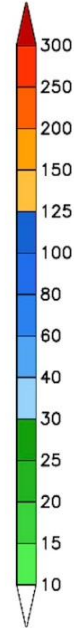
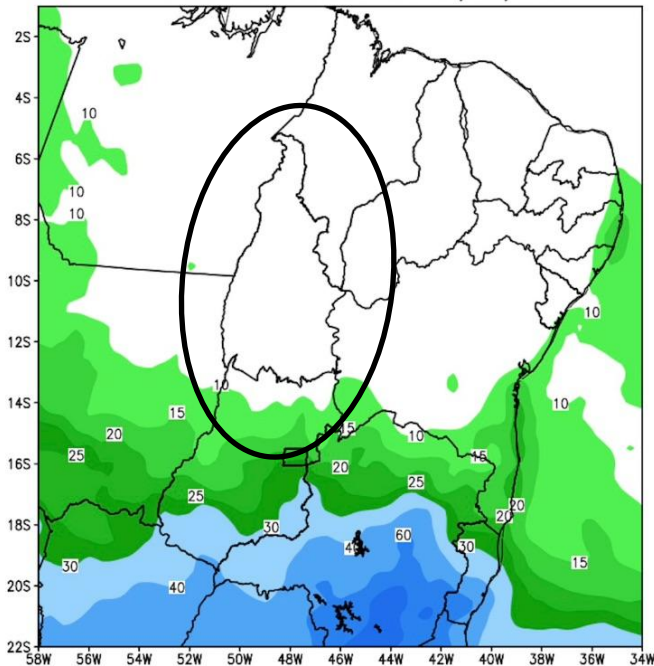
Precipitacao Bacia do Rio Araguaia desde SEP 2024



Previsão de chuva para as duas próximas semanas

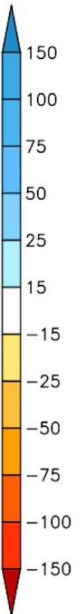
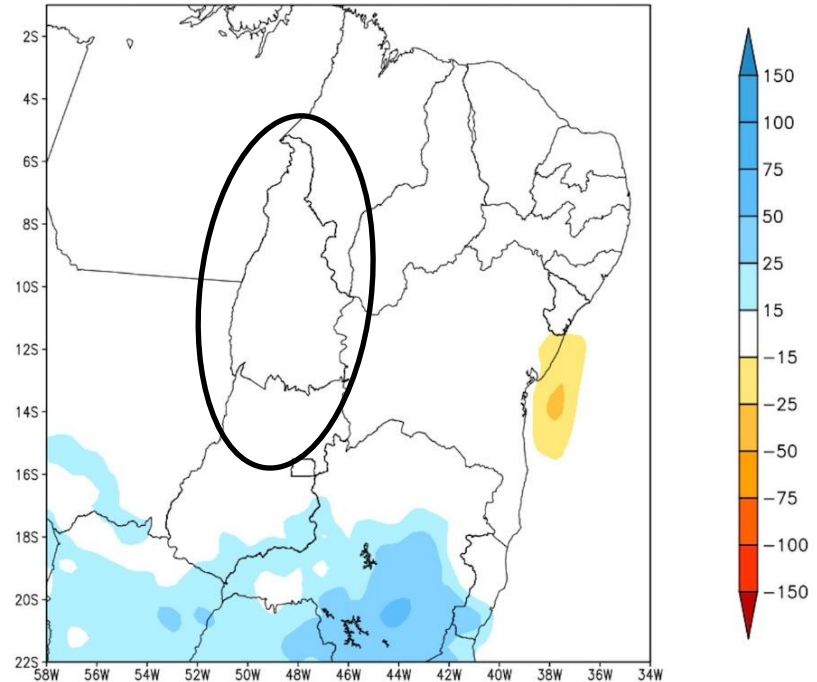
chuva

GEFS / BRASIL_NE
Precipitacao acumulada 14dias (mm)
Previsao das 00Z dia 23/09/2026



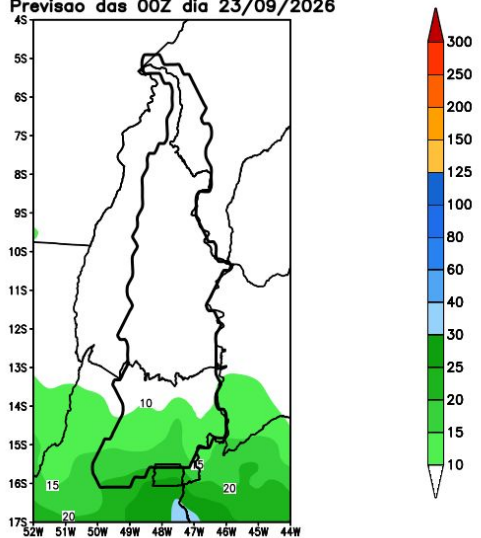
anomalia

Anomalia de Precipitacao BR NE (mm)
Periodo: 2026092300 a 2026100700

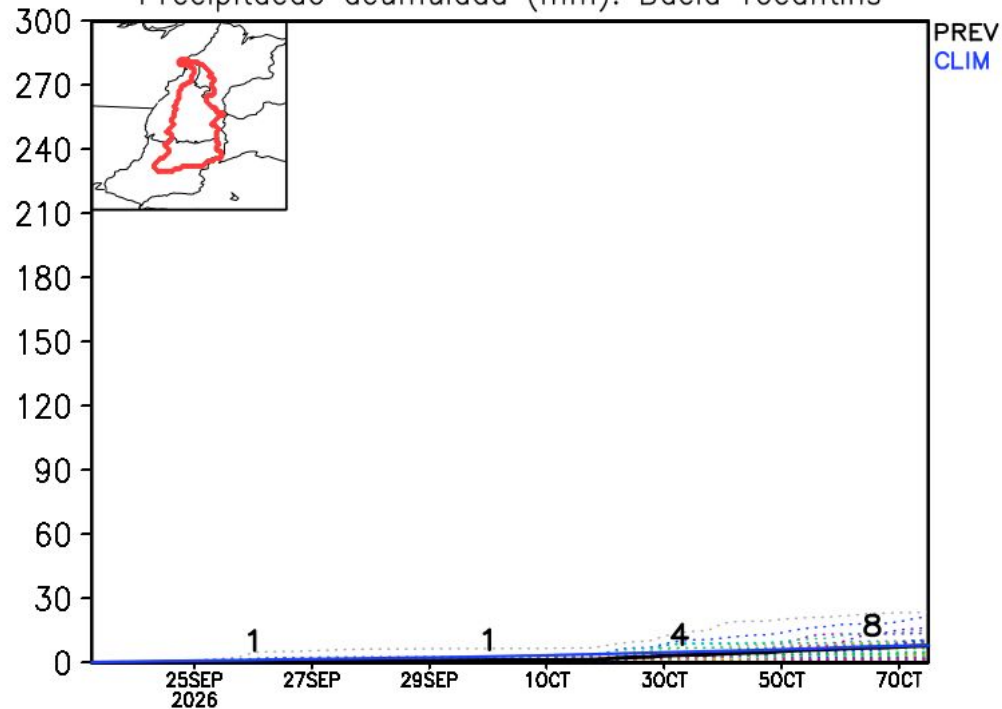


Previsão Bacia Rio Tocantins

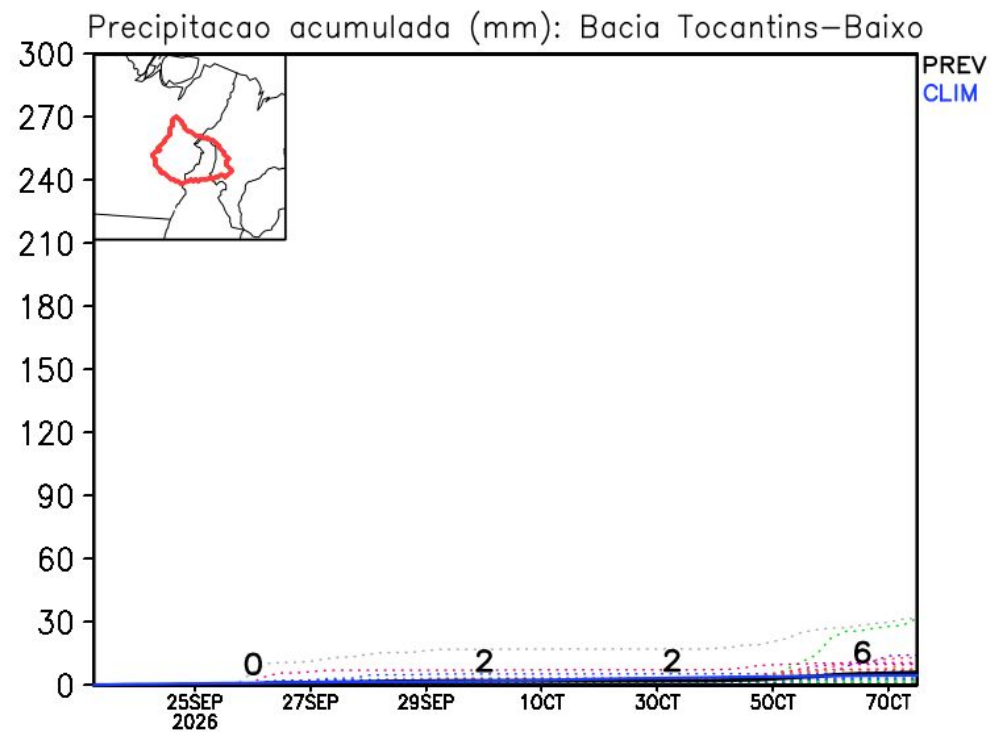
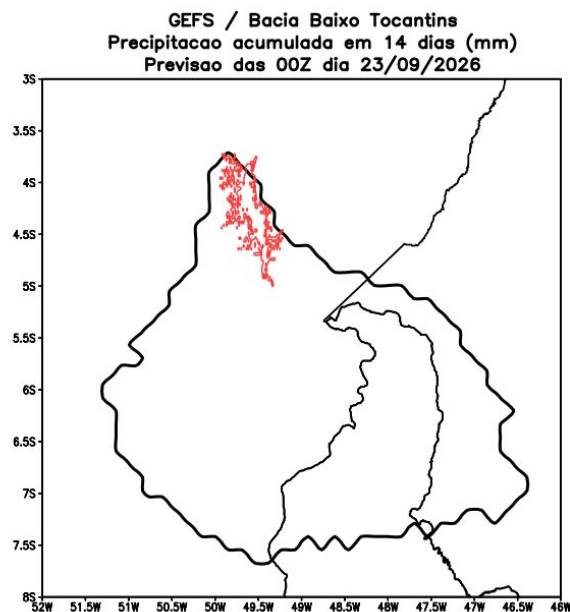
GEFS / Bacia Tocantins
Precipitacao acumulada em 14 dias (mm)
Previsao das 00Z dia 23/09/2026



Precipitacao acumulada (mm): Bacia Tocantins

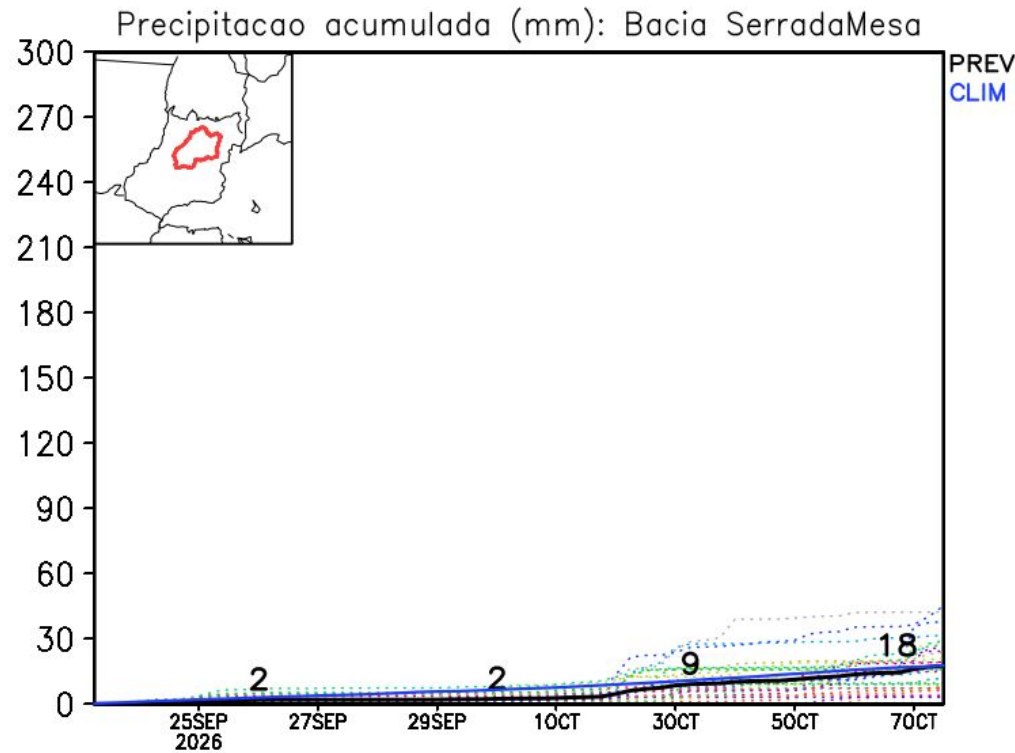
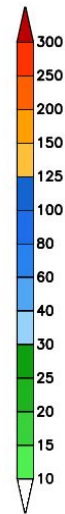
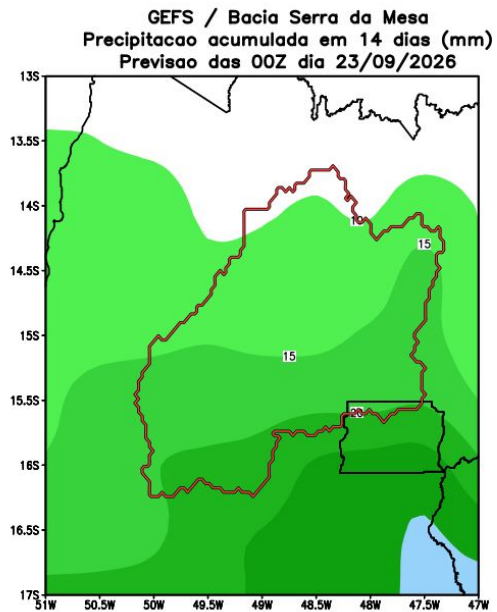


Previsão Bacia Tocantins (Baixo)



Fonte: GEFS/NOAA

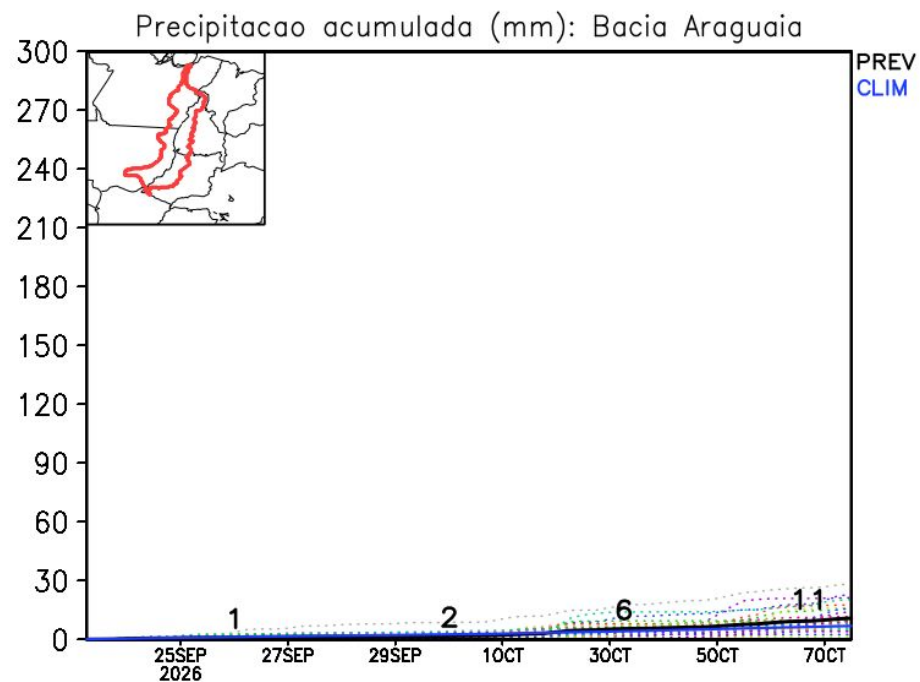
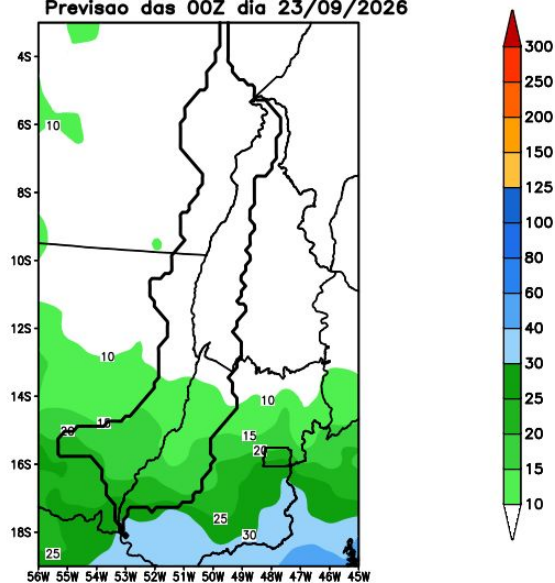
Previsão Bacia Serra da Mesa



Fonte: GEFS/NOAA

Previsão Bacia Araguaia

GEFS / Bacia do Rio Araguaia
Precipitação acumulada em 14 dias (mm)
Previsão das 00Z dia 23/09/2026

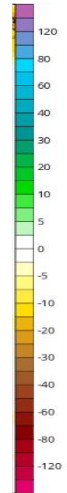
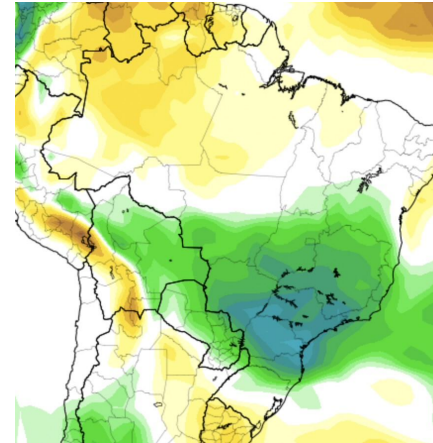
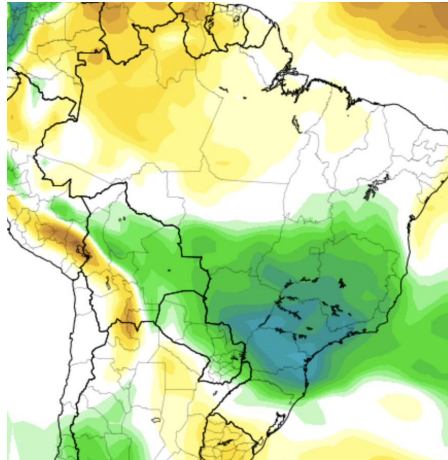


Anomalia de Chuva 3a e 4a semanas

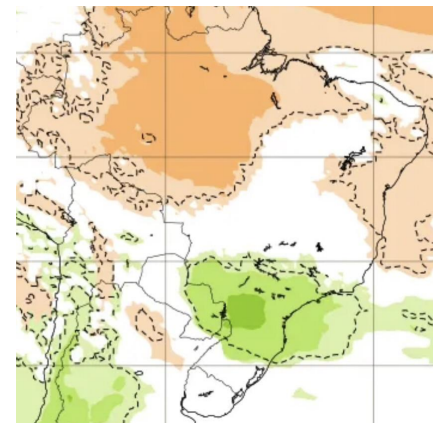
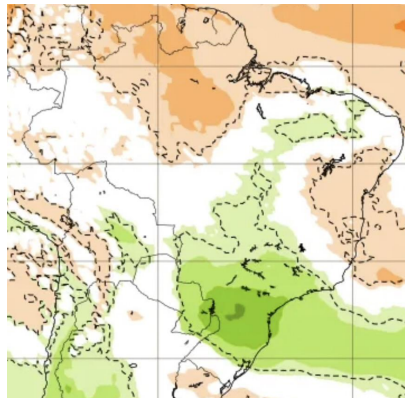
06-12 outubro

13 - 18 outubro

Centro Americano
CFS/NOAA

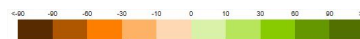


Centro Europeu
ECMWF



05-11 outubro

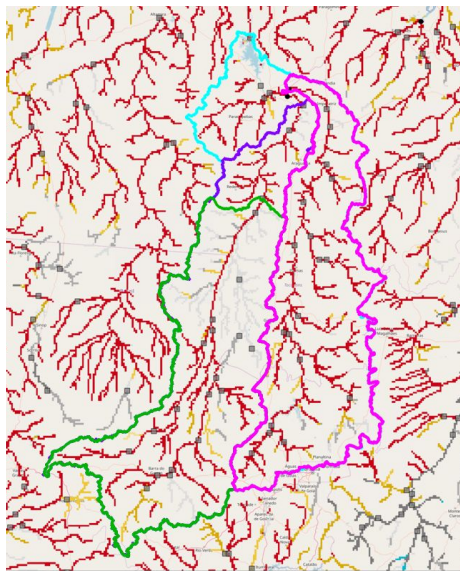
12-18 outubro



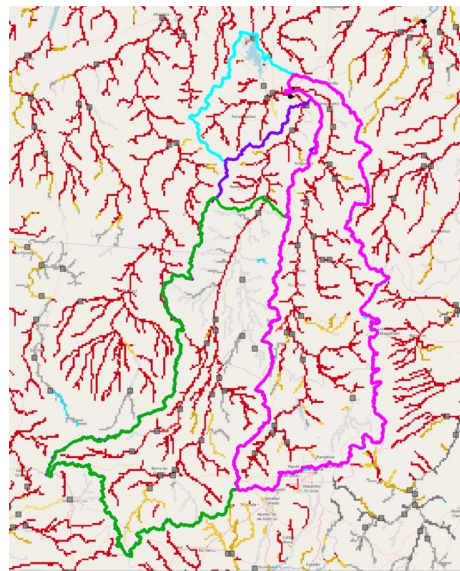
Previsão Sub-sazonal (45 dias) de vazões naturais para a Bacia do Rio Tocantins (GloFAS)

Previsão: 28/09/2026 – 02/11/2026

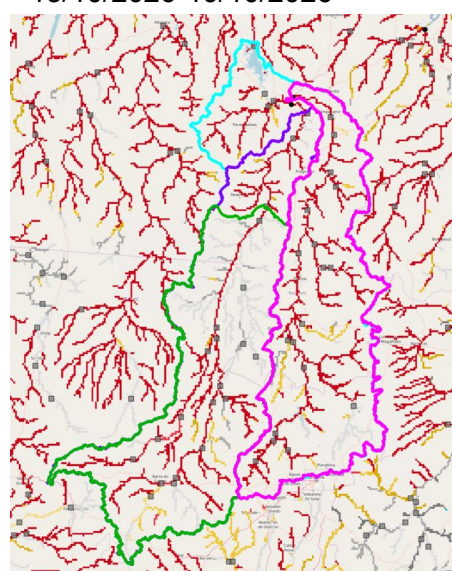
28/09/2026-05/10/2026



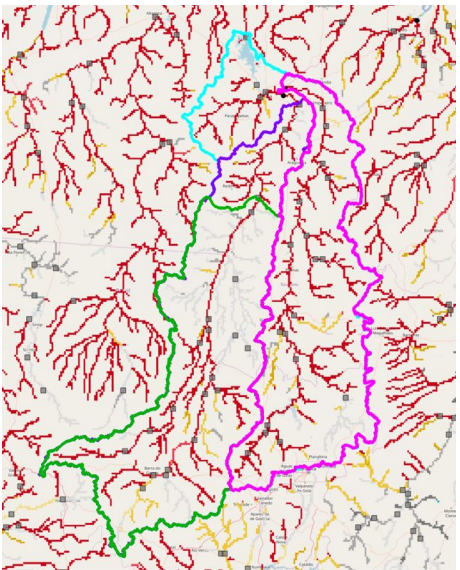
06/10/2026-12/10/2026



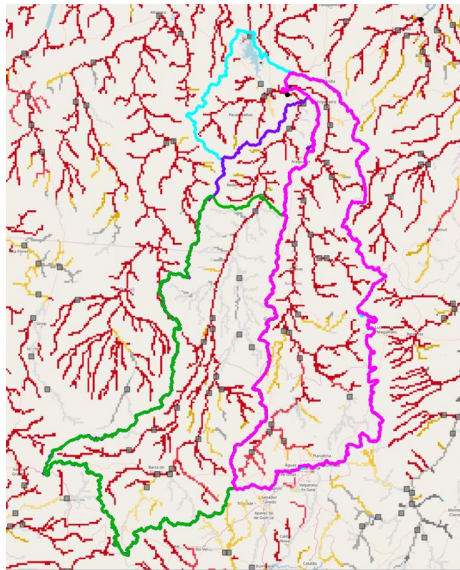
13/10/2026-19/10/2026



20/10/2026-26/10/2026



27/10/2026-02/11/2026



- Bacia Tocantins
- Bacia Conceição do Araguaia
- Bacia Araguatins
- Bacia UHE Tucuruí

Categoria de anomalia de vazões (percentil)

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

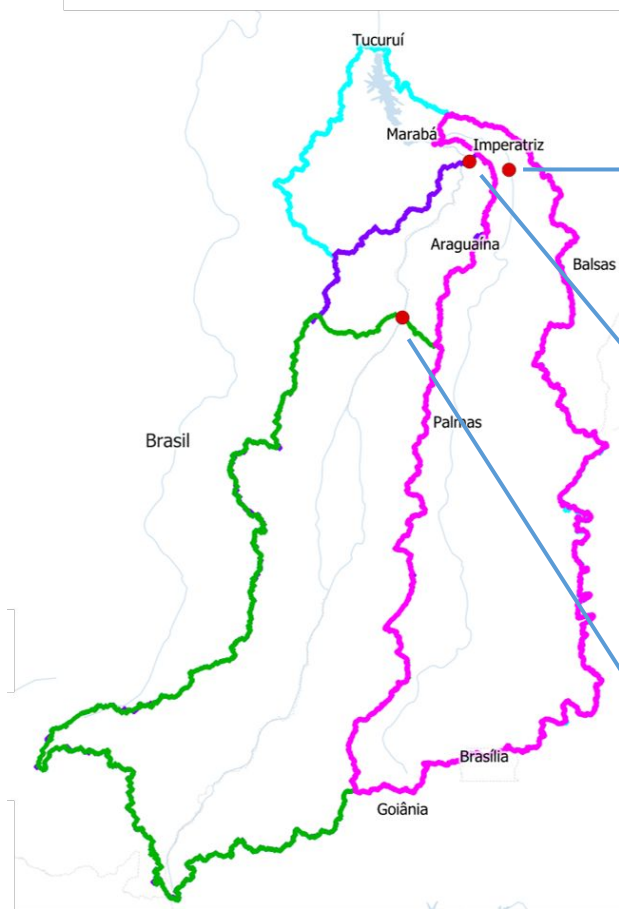
Previsão de vazão: Lisflood/GloFAS Forecast

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

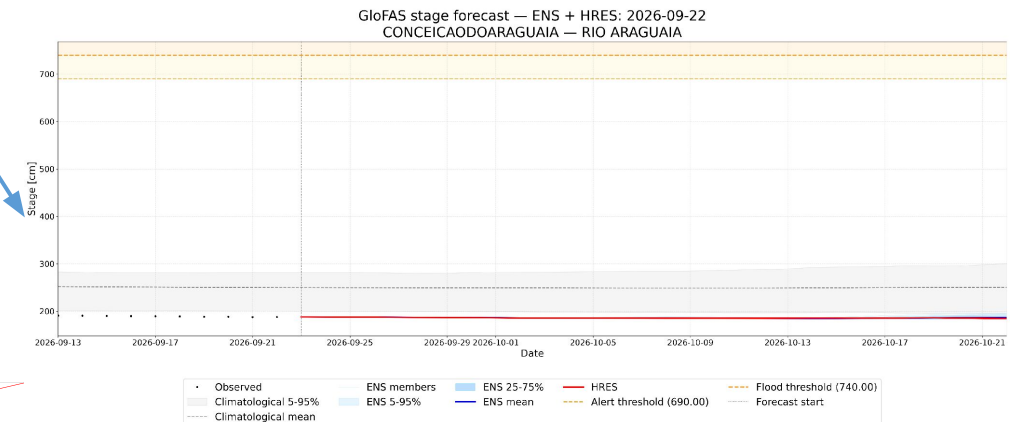
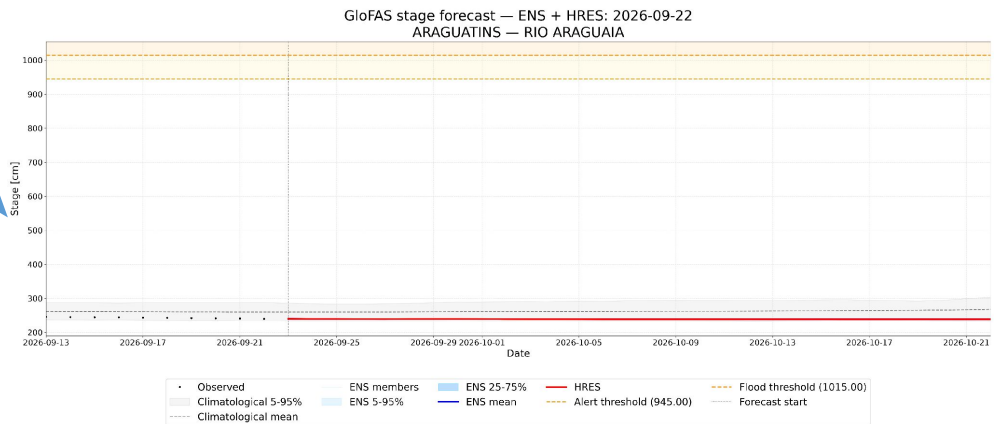
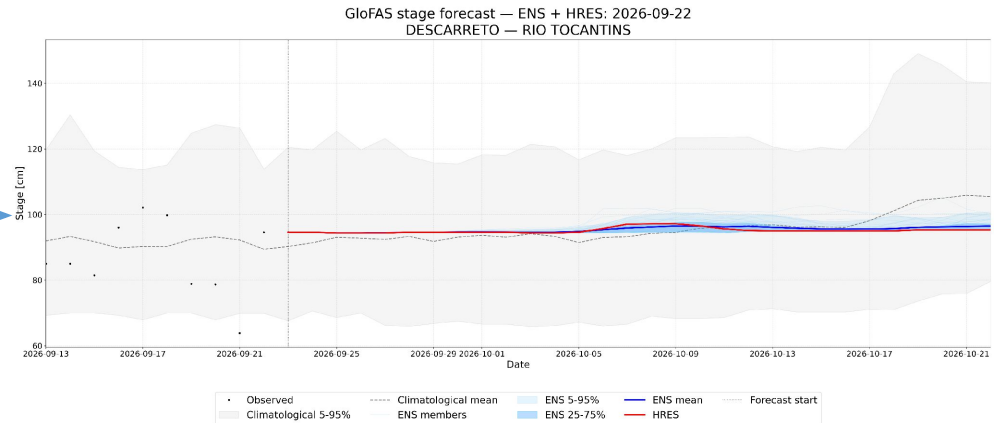


Previsão Sub-sazonal (30 dias) de cotas para o Rio Tocantins (GloFAS)

Previsão: 22/09/2026 – 22/10/2026



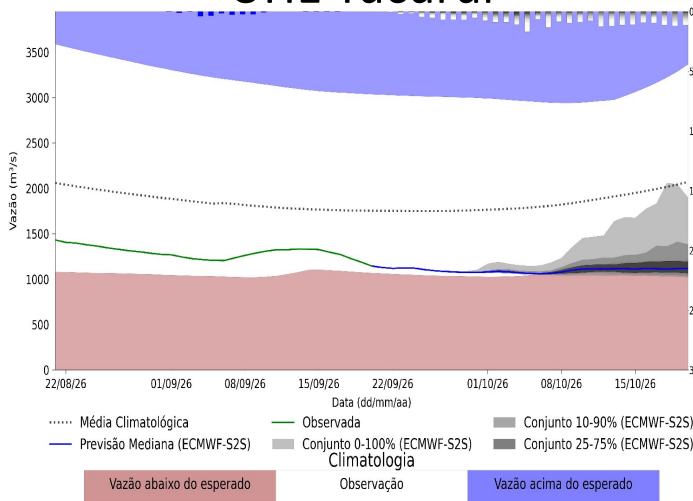
- Bacia Tocantins
- Bacia Conceição do Araguaia
- Bacia Araguatins
- Bacia UHE Tucuruí



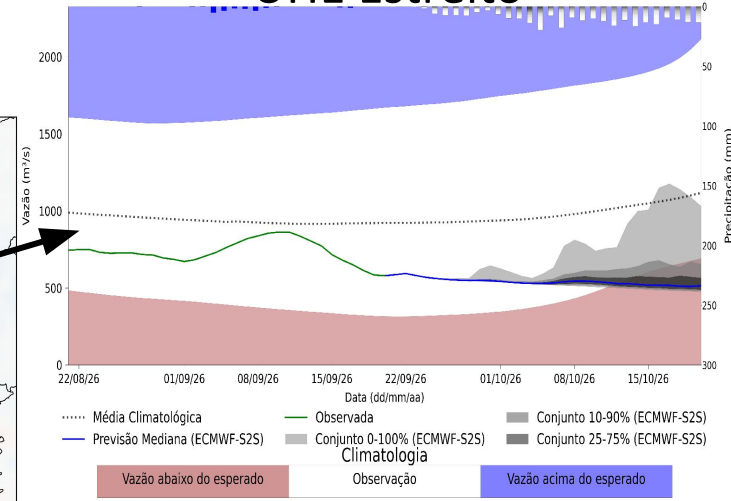
Previsão de vazão natural na Bacia Rio Tocantins-Araguaia

Previsão: 20/09/2026 a 20/10/2026

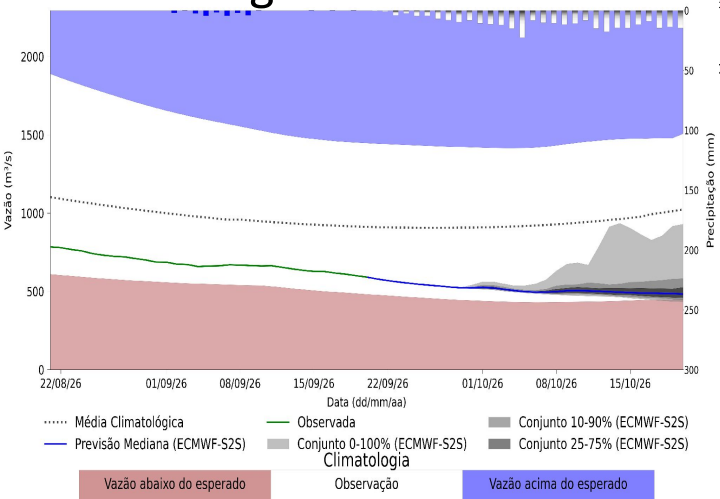
UHE Tucuruí



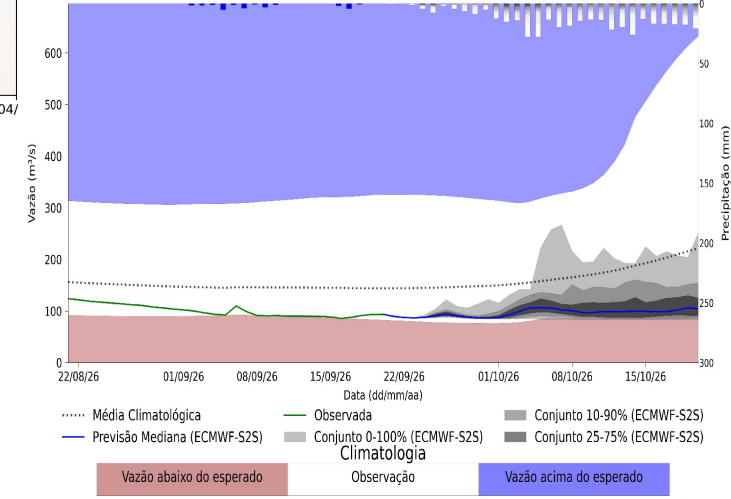
UHE Estreito



Araguatins - TO



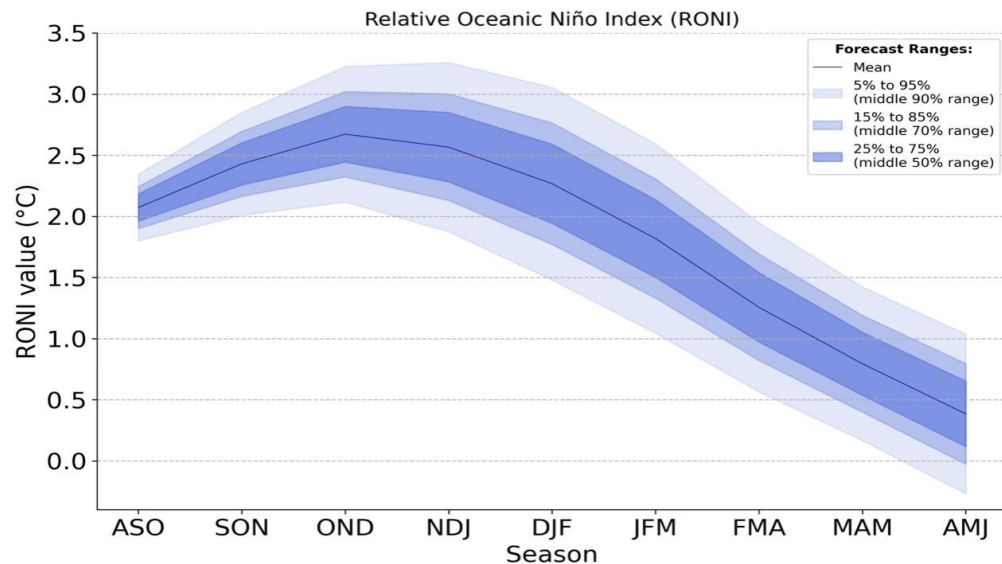
UHE Serra da Mesa



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

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"**.

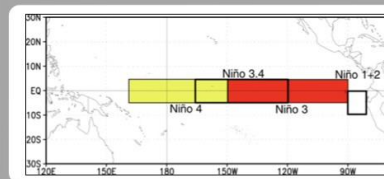
Boletim de 21 de setembro/2026

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

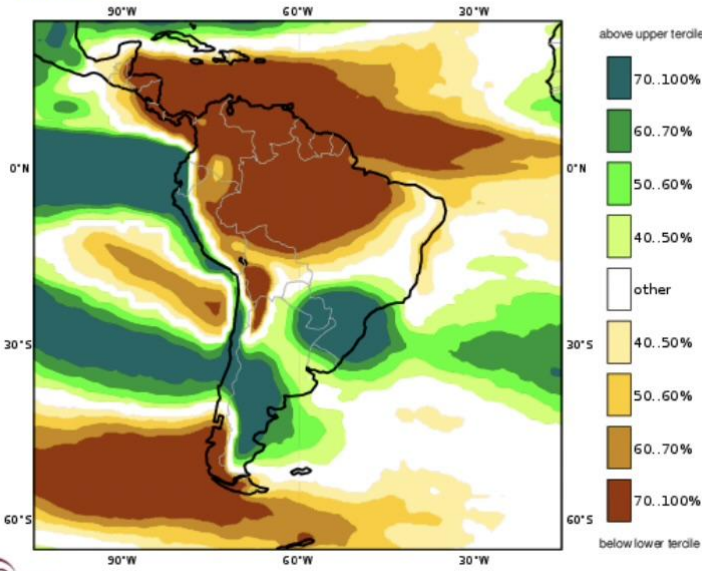
C3S multi-system seasonal forecast

Prob(most likely category of precipitation)

Nominal forecast start: 01/09/26

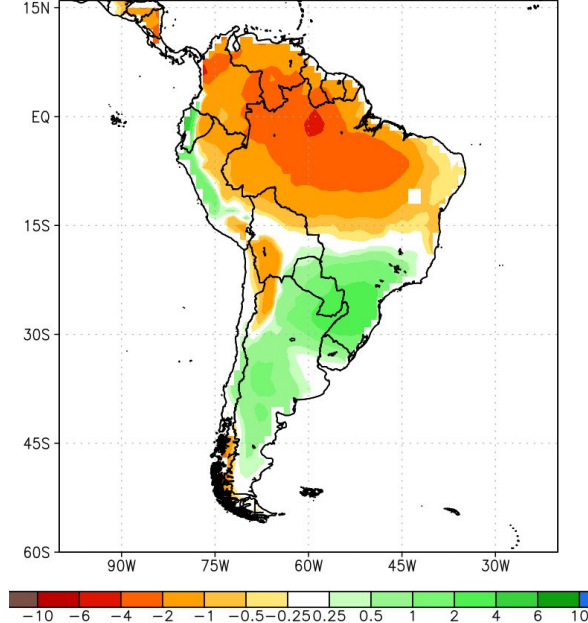
Unweighted mean

OND 2026



Modelos “Europeus”

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



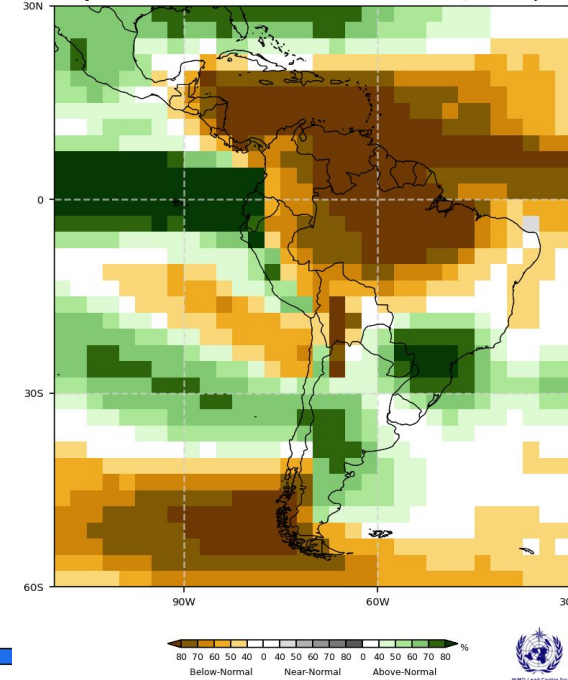
Modelos Norte Americanos

Probabilistic Multi-Model Ensemble Forecast

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

Precipitation : OND2026

(issued on Sep2026)

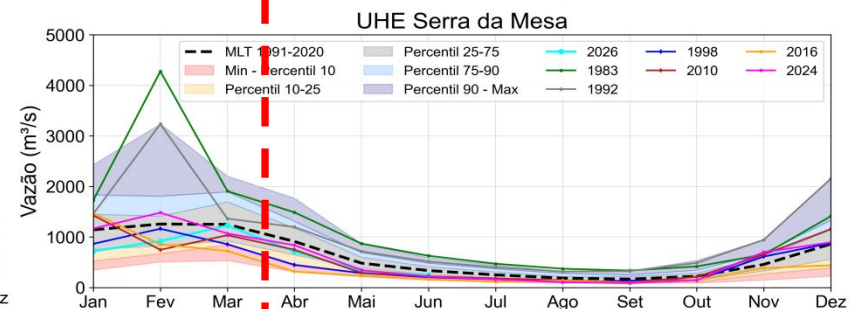
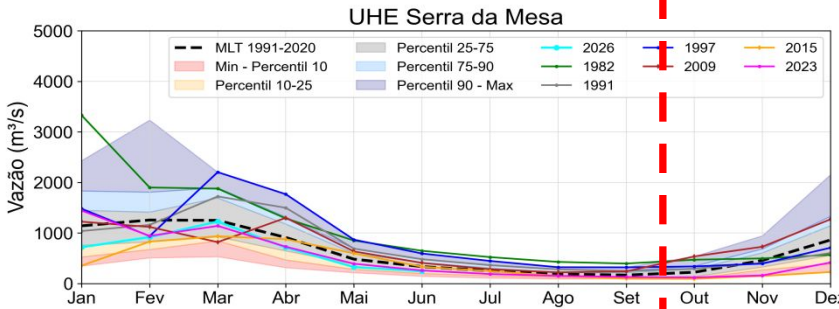
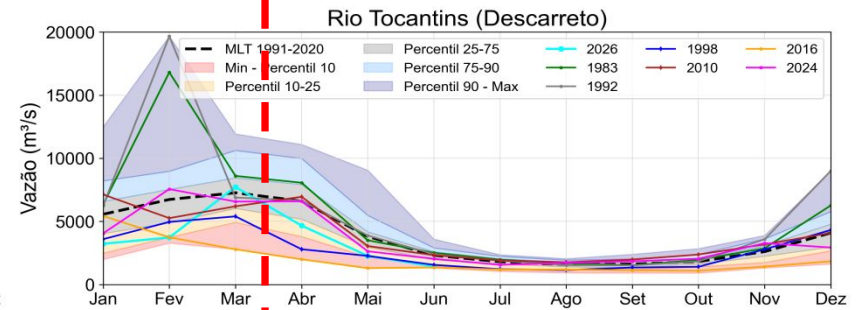
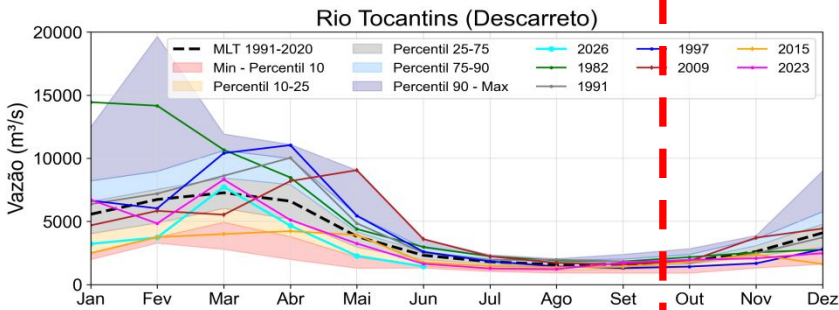
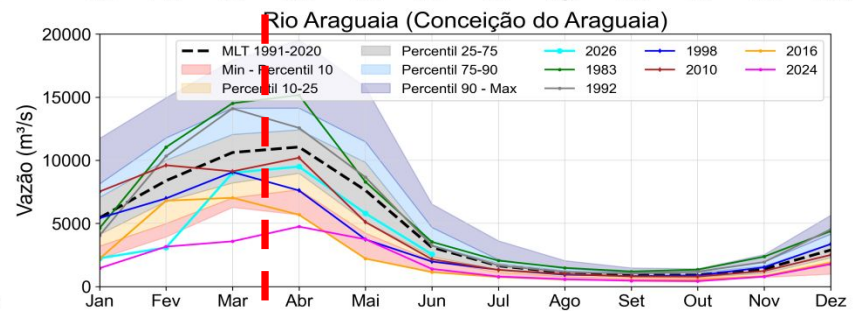
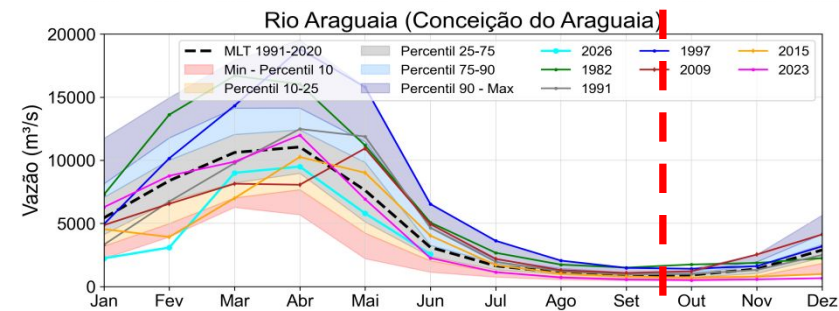
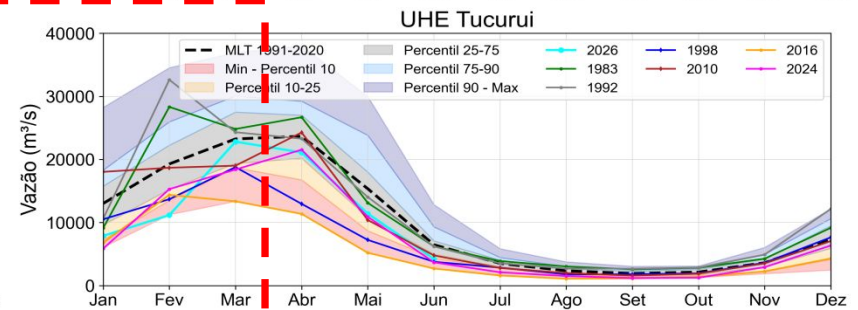
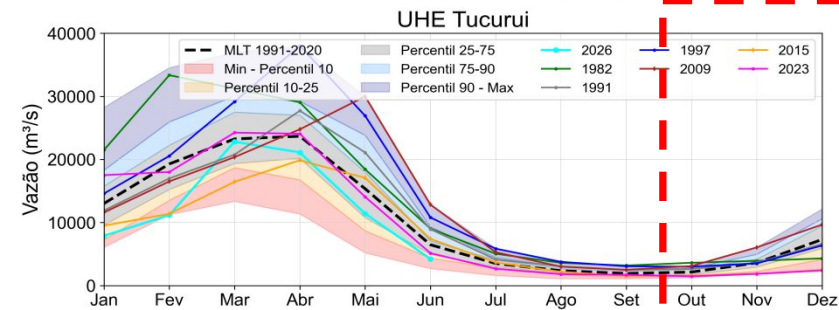


Países da
Organização
Meteorológica
Mundial

Anos análogos de El Niño

1982/1991/1997/2009/2015/2023

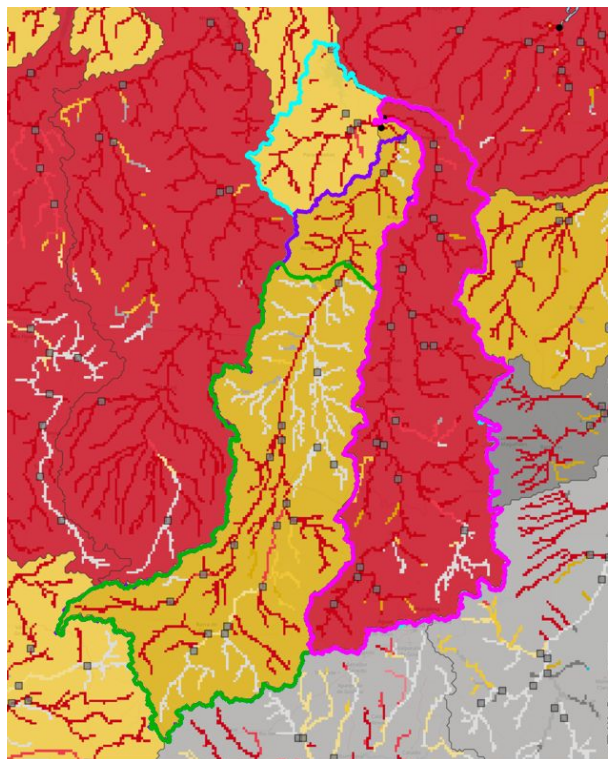
1983/1992/1998/2010/ 2016/2024



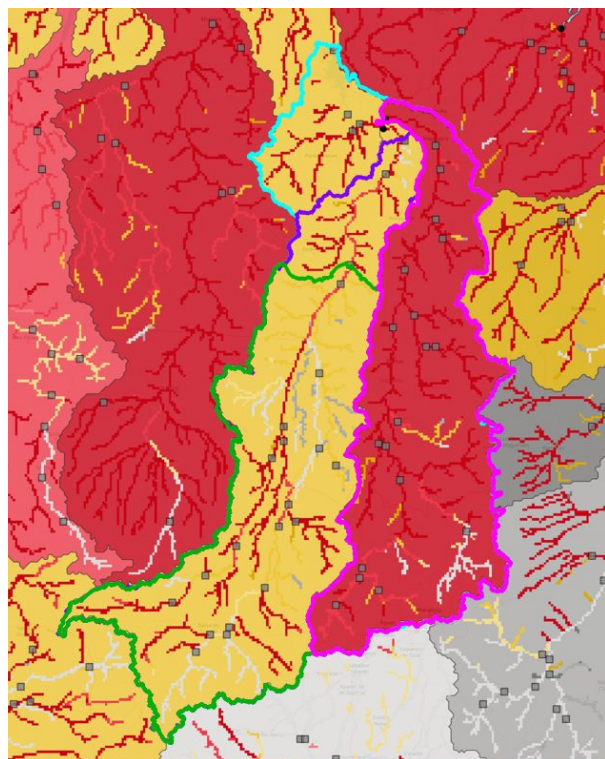
Previsão Sazonal (OND) de vazões naturais para a Bacia do Rio Tocantins (GloFAS)

Previsão: Outubro, Novembro e Dezembro de 2026

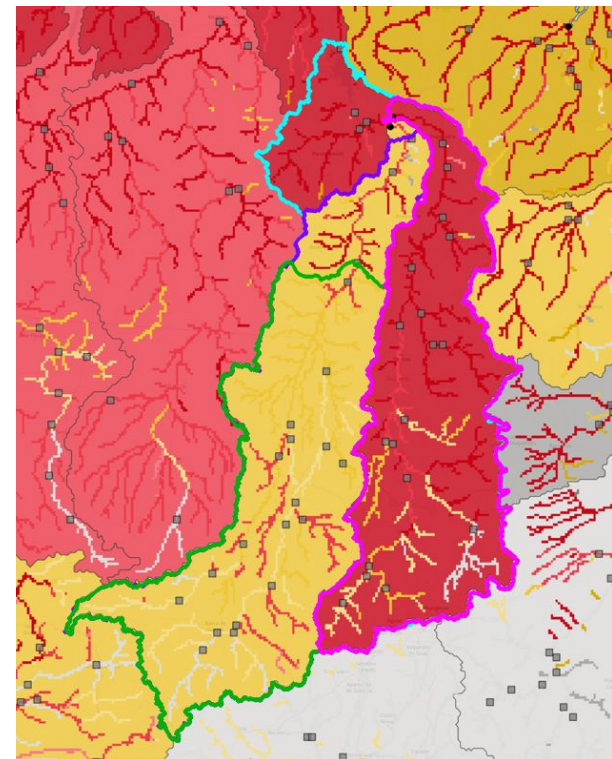
Outubro



Novembro



Dezembro



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

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- Bacia Araguaatins
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