



CEMADEN

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

FOCOS DO CEMADEN/MCTI

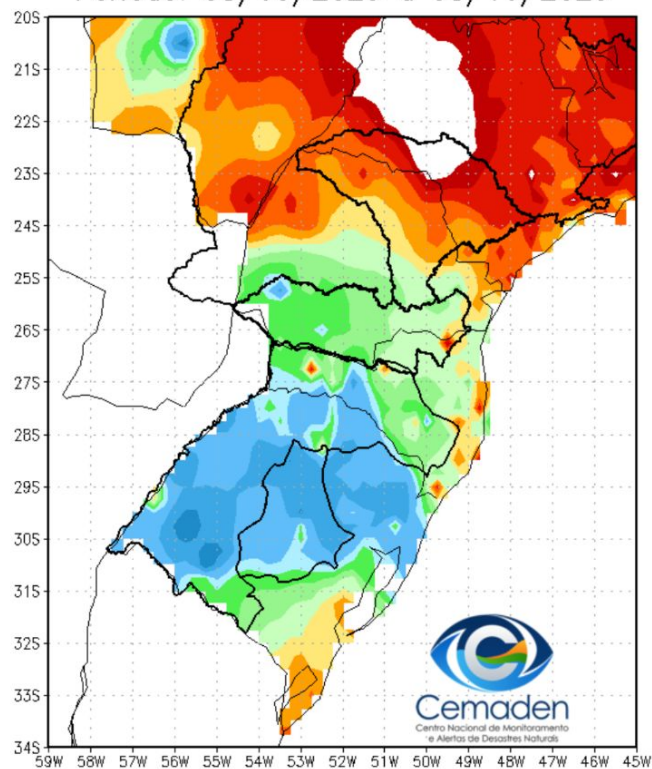
**Conhecimento dos Riscos
Sistemas de Monitoramento e Alerta
Programa Cemaden Educação
Difusão e Comunicação
Capacidade de Resposta**

Monitoramento e Previsões da situação hidrometeorológica na Região Sul

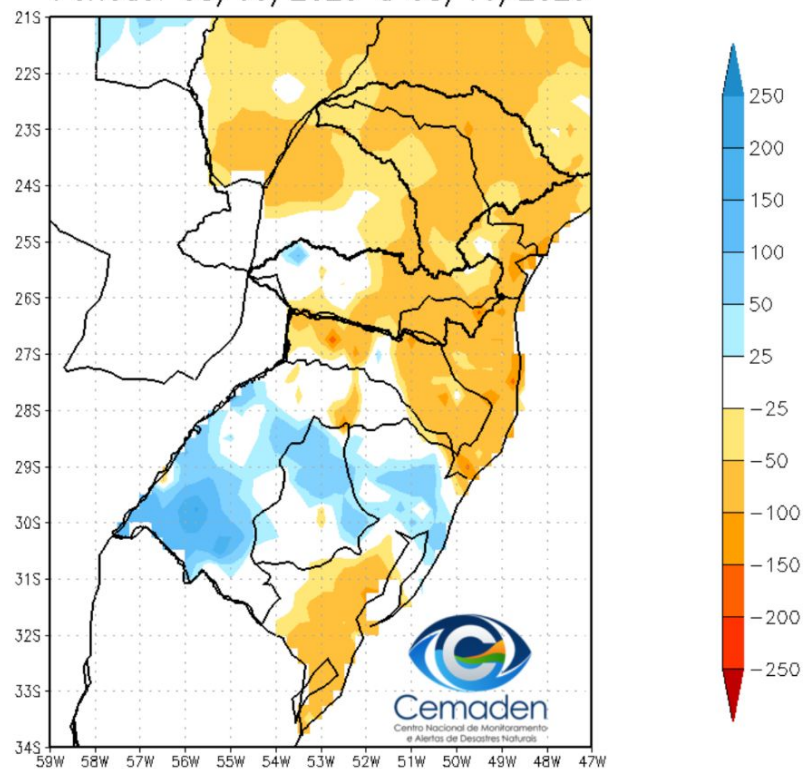
OUTUBRO 2025

Precipitação nos últimos 30 dias

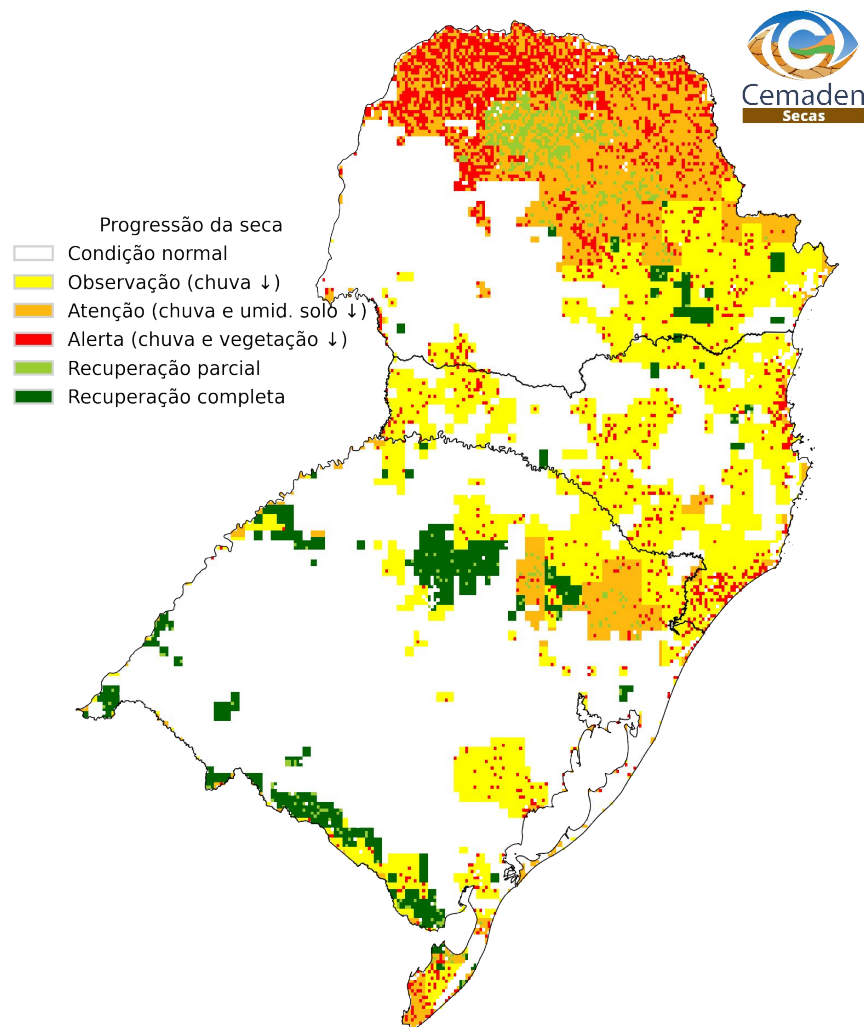
Precipitação Acumulada (mm) A.S.
Período: 08/09/2025 a 08/10/2025



Anomalia de Precipitação (mm) A.S.
Período: 08/09/2025 a 08/10/2025



PROPAGAÇÃO INCREMENTAL DAS CONDIÇÕES DE SECA (PICS)

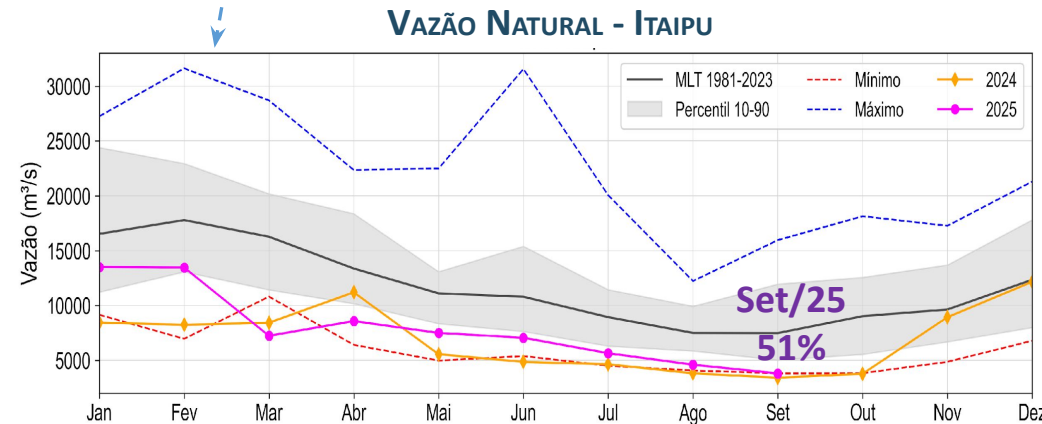
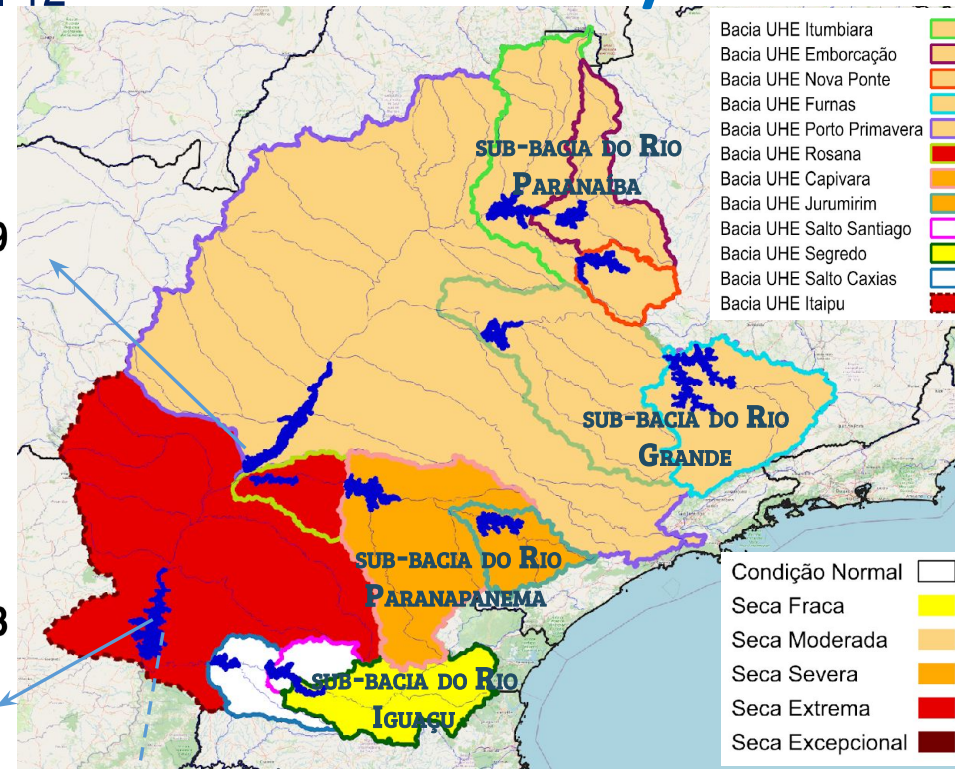
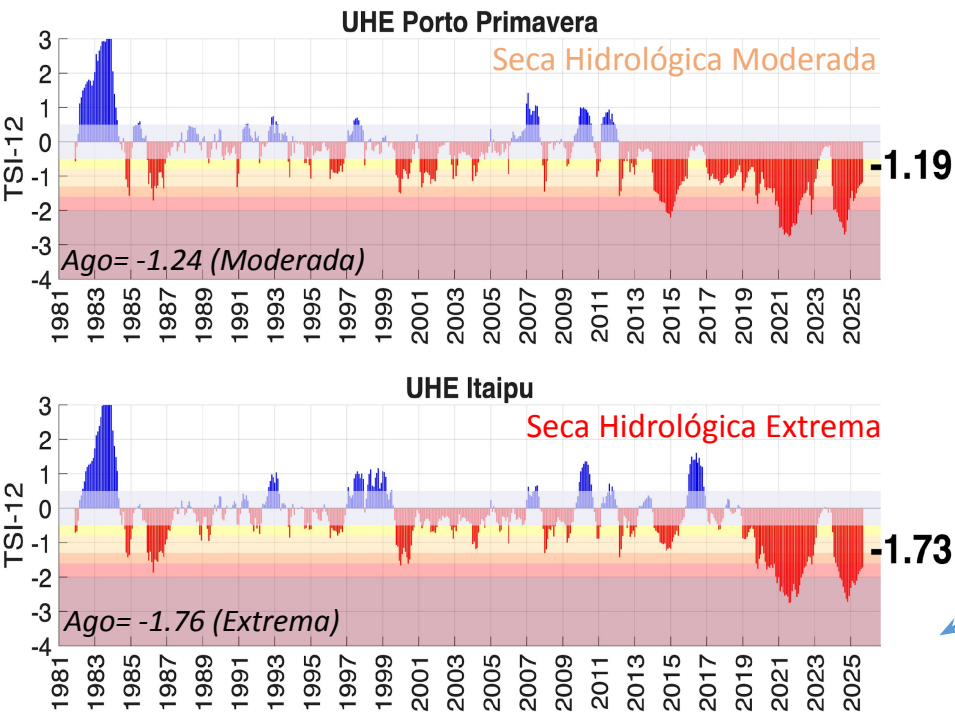


Progressão e Intensificação das Condições de Seca (PICS)
setembro 2025
Fonte: Cemaden/MCTI

BACIA DO RIO PARANÁ

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

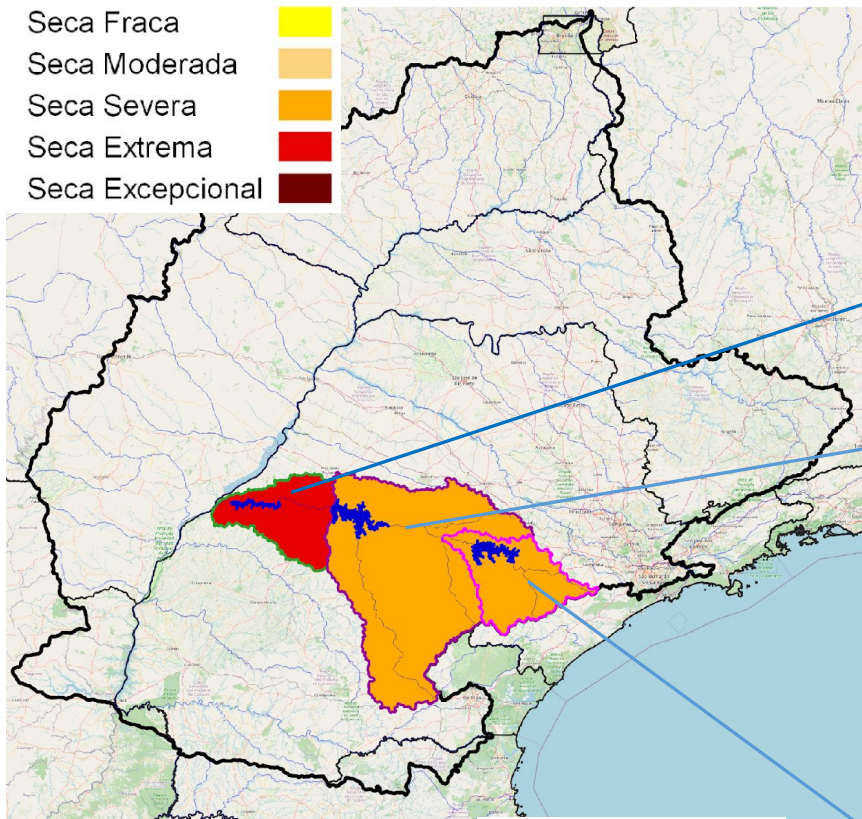
Setembro/2025



BACIA DO RIO PARANAPANEMA

Setembro/2025

Condição Normal 
Seca Fraca 
Seca Moderada 
Seca Severa 
Seca Extrema 
Seca Excepcional 



Reservatórios 
Hidrografia 

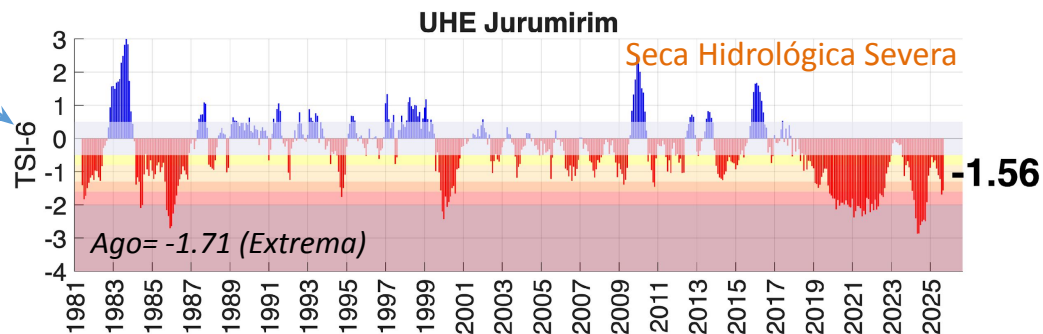
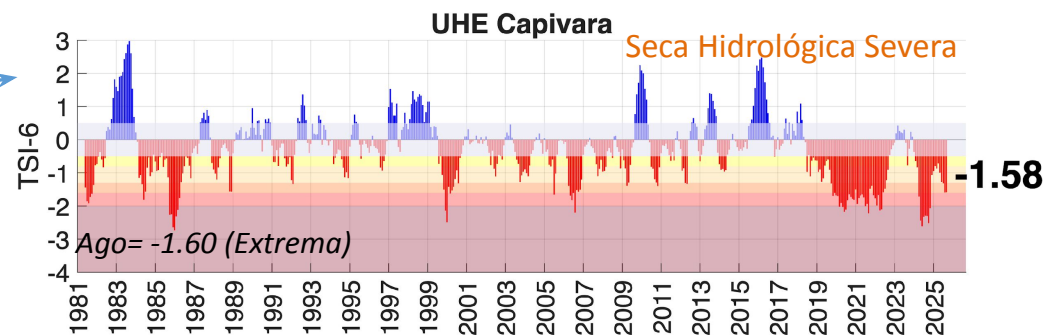
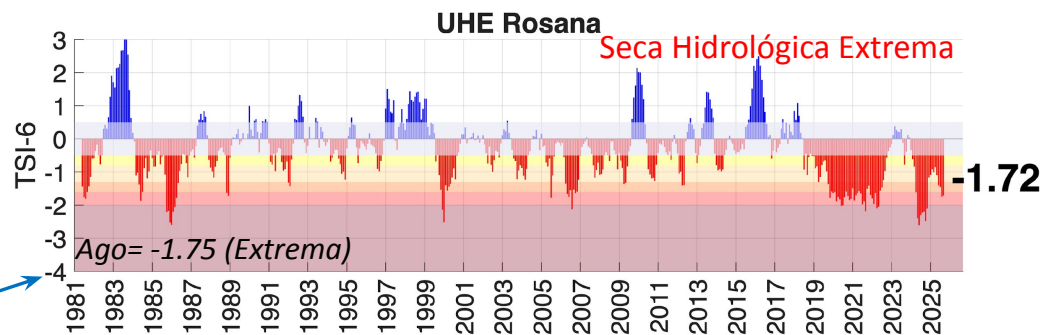
Bacia UHE Rosana 
Bacia UHE Capivara 
Bacia UHE Jurumirim 
Bacia Rio Paraná 

Fonte: CEMADEN/MCTI

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

Período: Jan/1981 – Set/2025

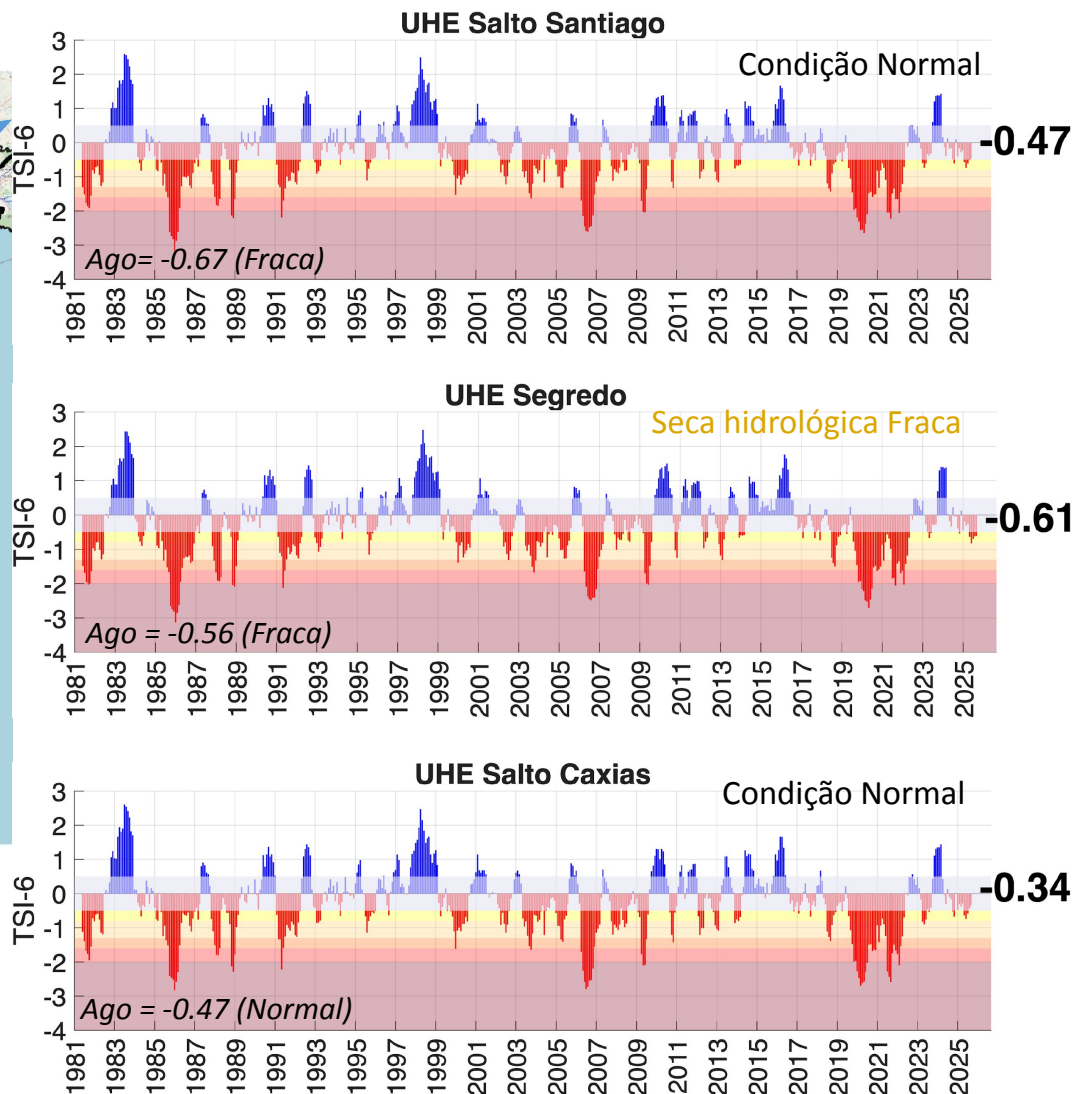
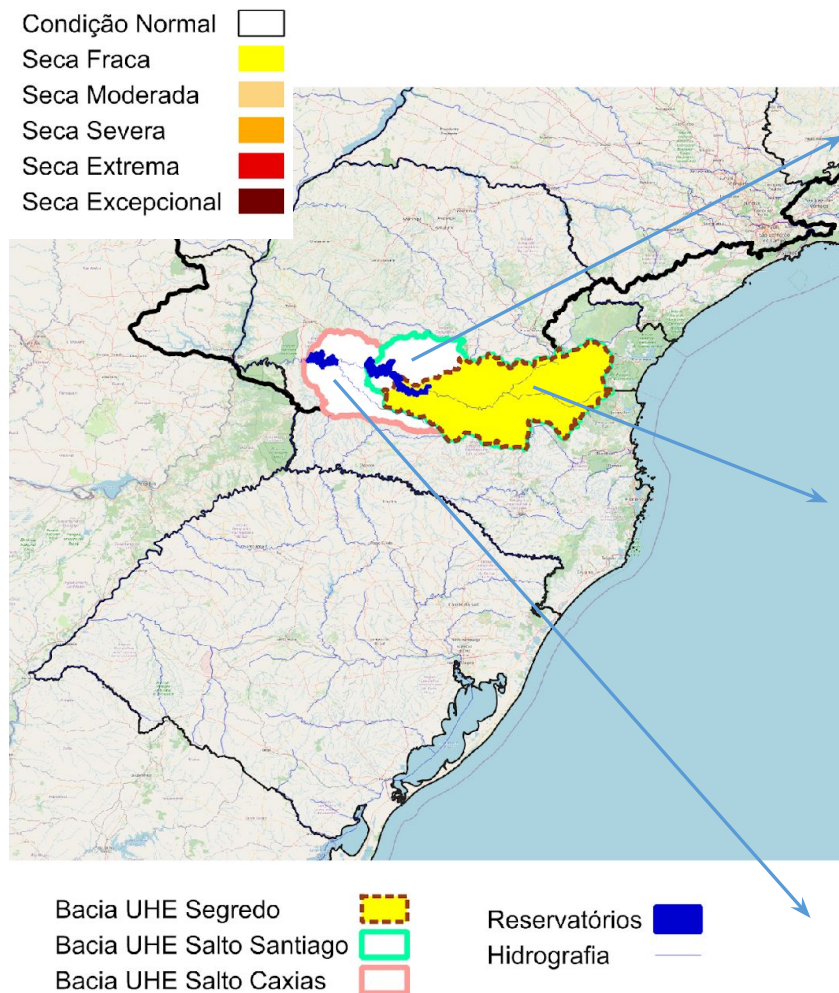
Índice de Seca Bivariado (Chuva-Vazão) – TSI 6



BACIA DO RIO IGUAÇU

Setembro/2025

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



Fonte: CEMADEN/MCTI

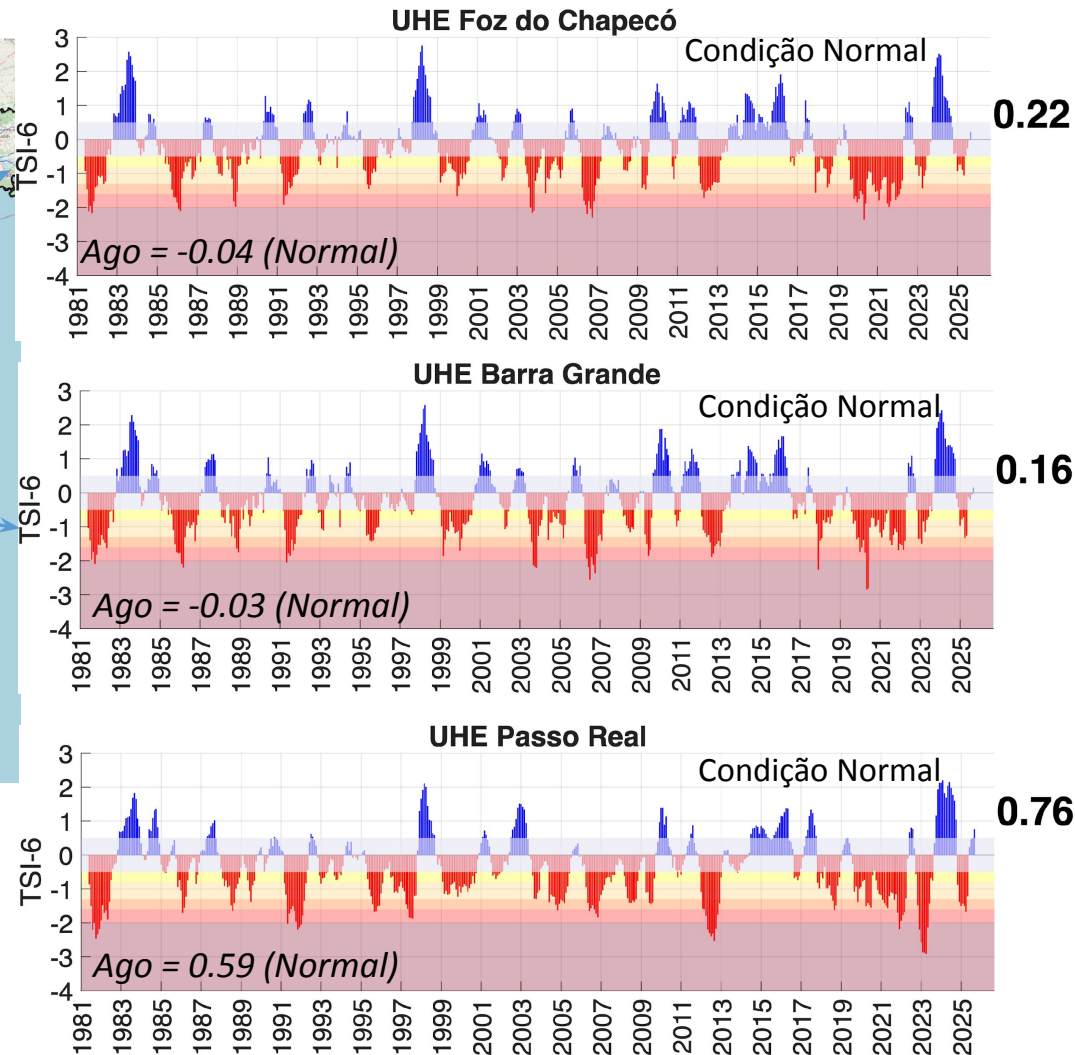
Dados: Precipitação (CHIRPS) e Vazão (ONS e ANA)

Período: Jan/1981 – Set/2025

BACIAS HIDROGRÁFICAS: ESTADOS SC-RS

Setembro/2025

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

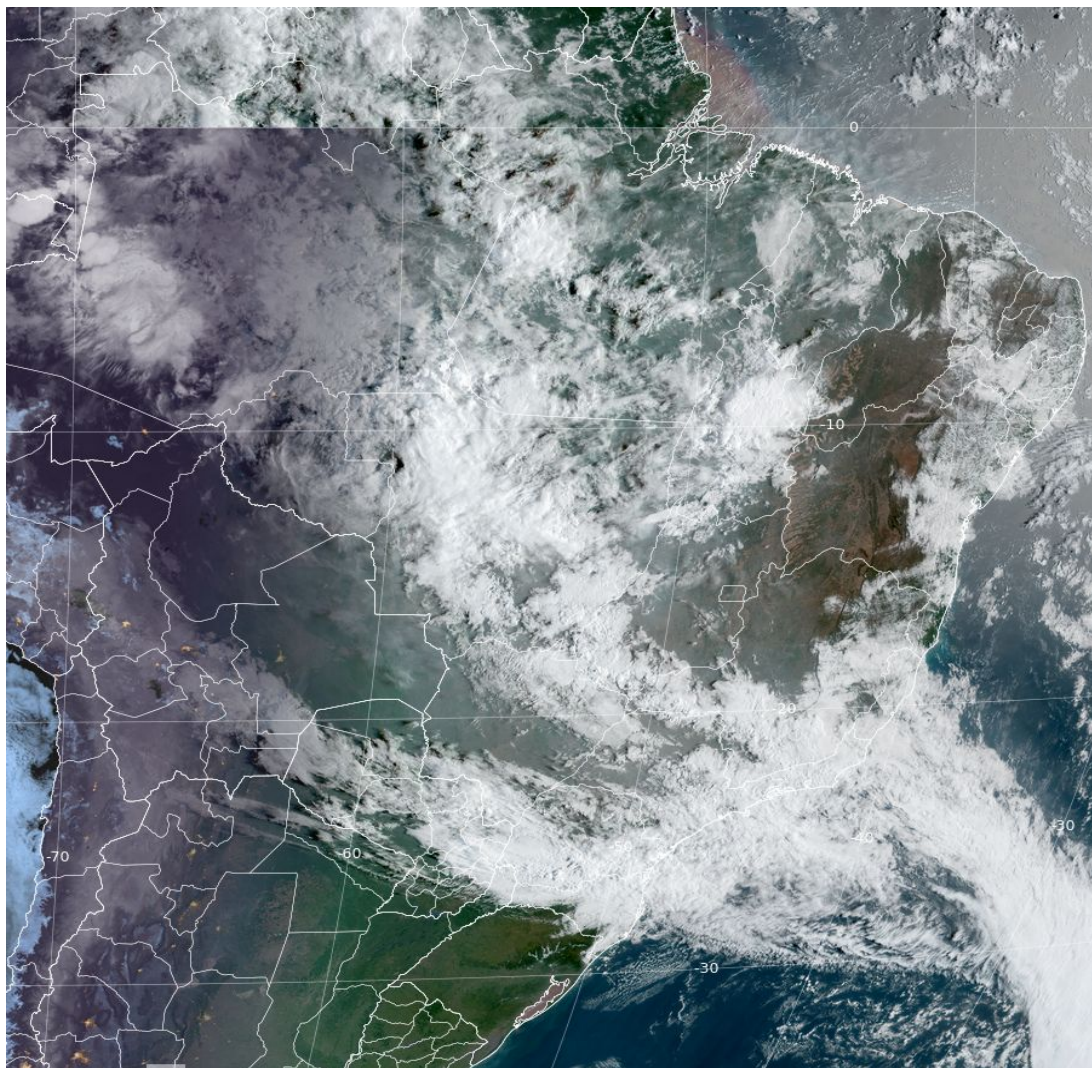


Fonte: CEMADEN/MCTI

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

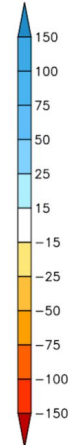
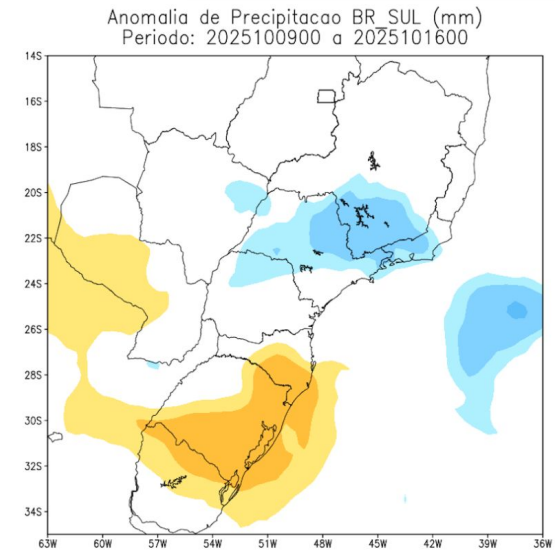
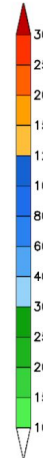
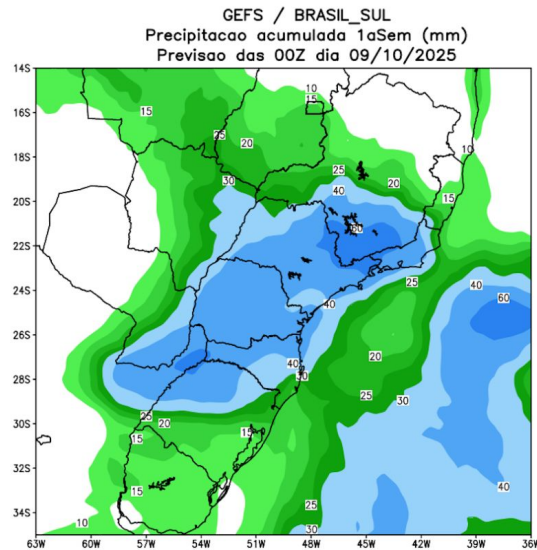
Período: Jan/1981 – Set/2025

Situação meteorológica atual

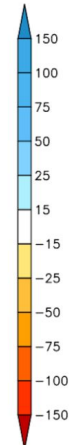
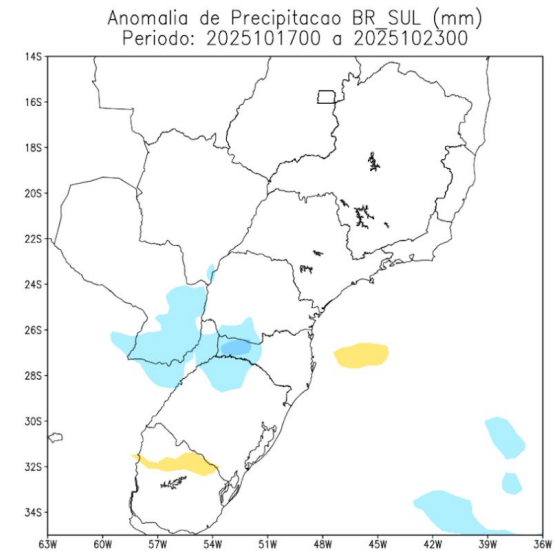
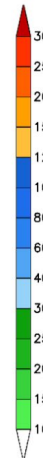
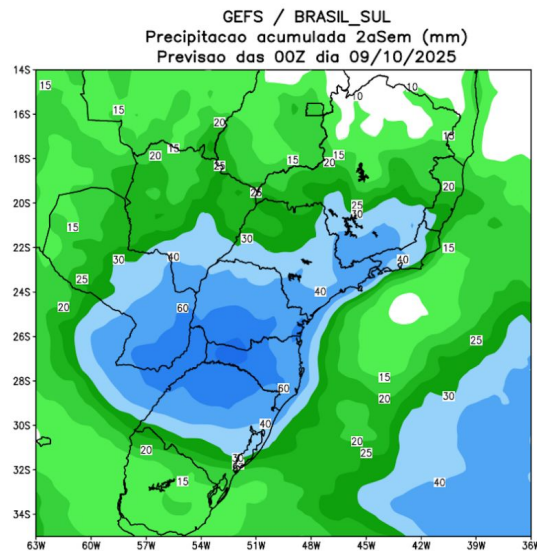


Previsão de chuva: horizonte de 2 semanas

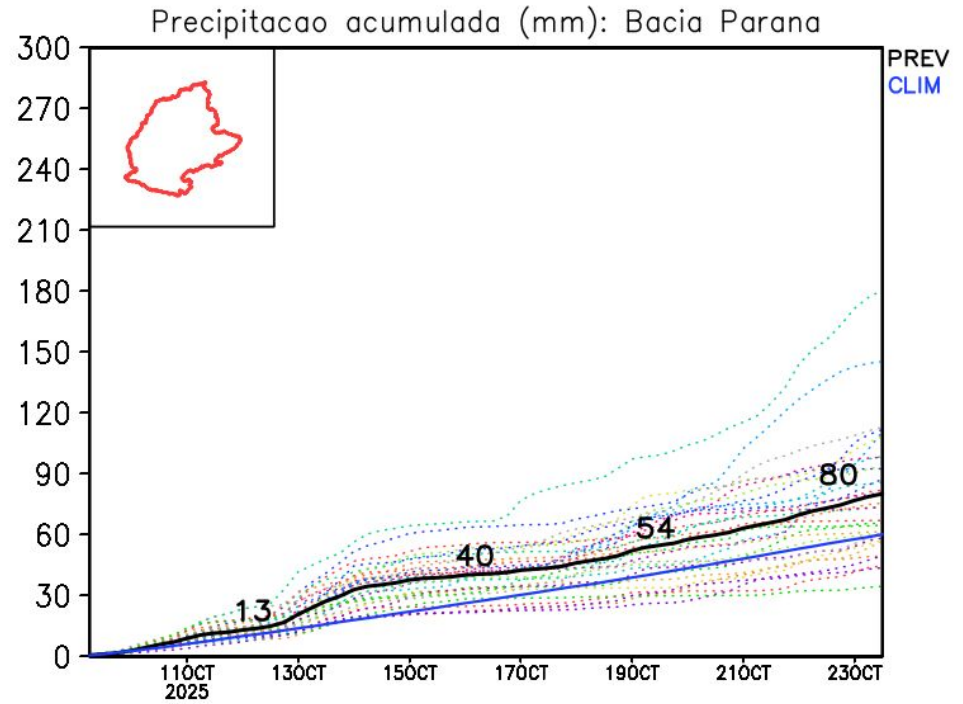
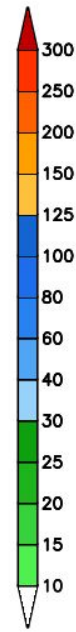
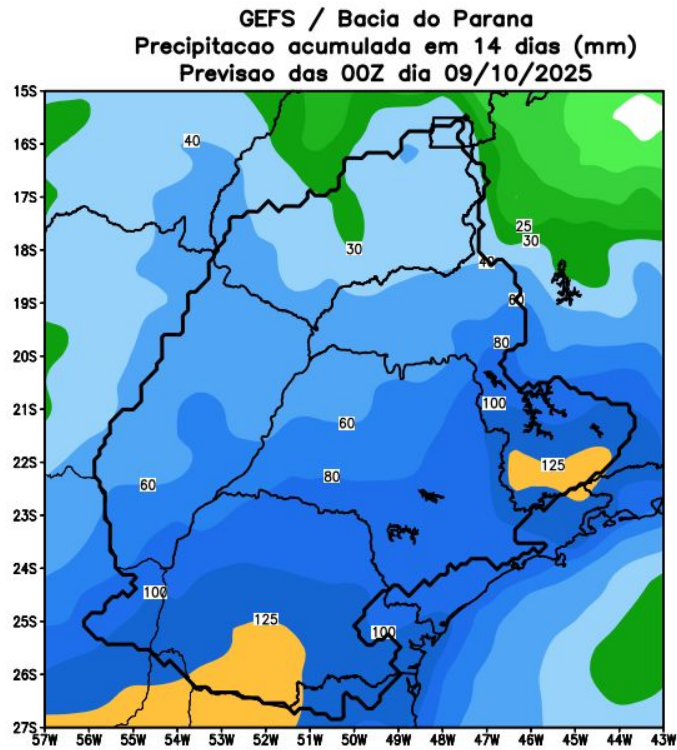
Semana 1



Semana 2

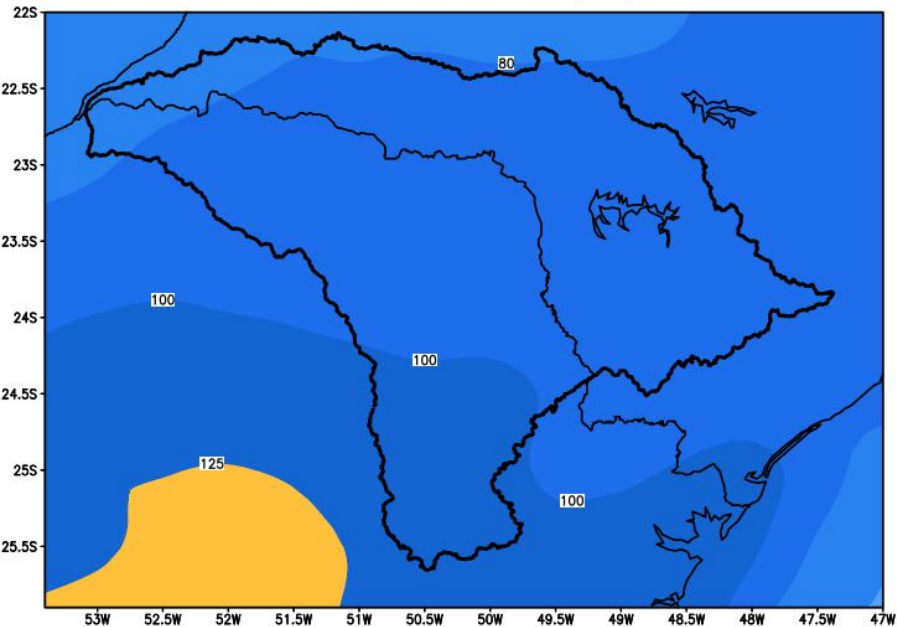


Previsão para a bacia do Paraná

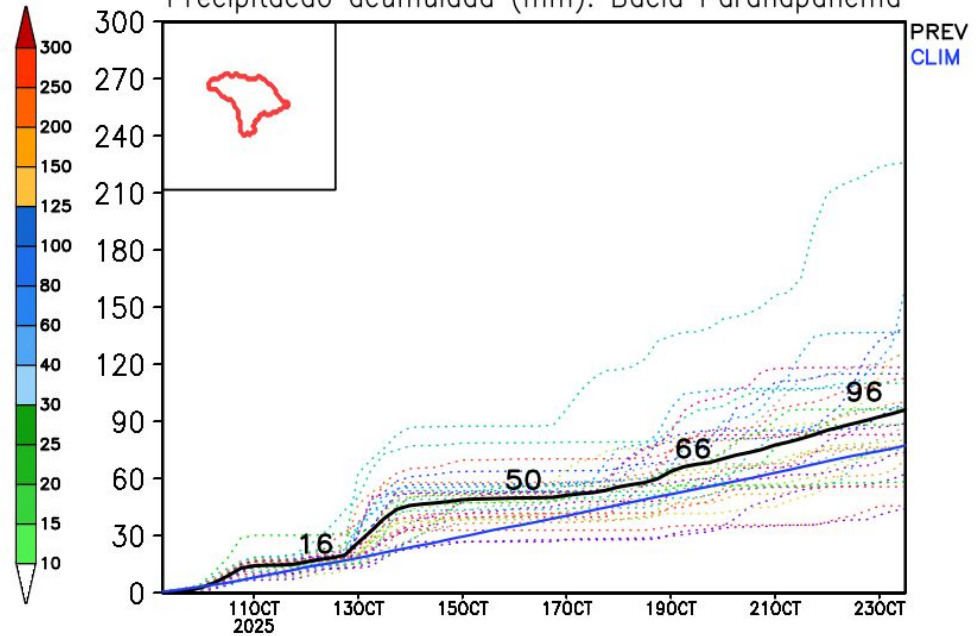


Previsão para a bacia do Paranapanema

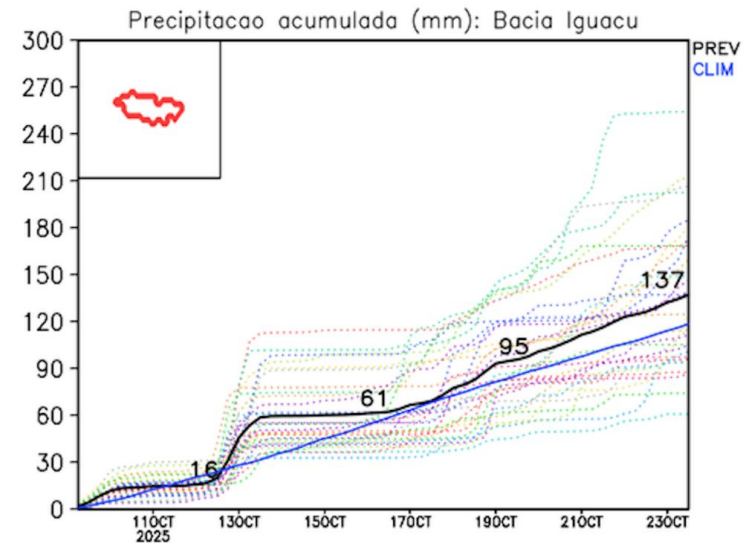
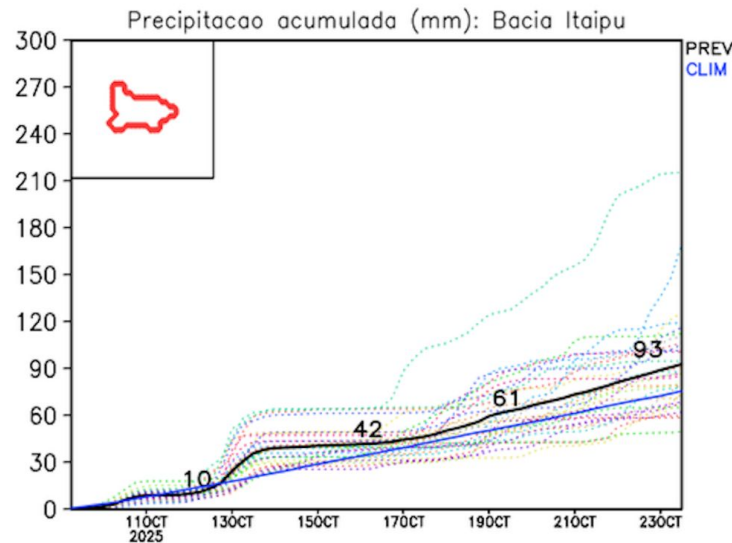
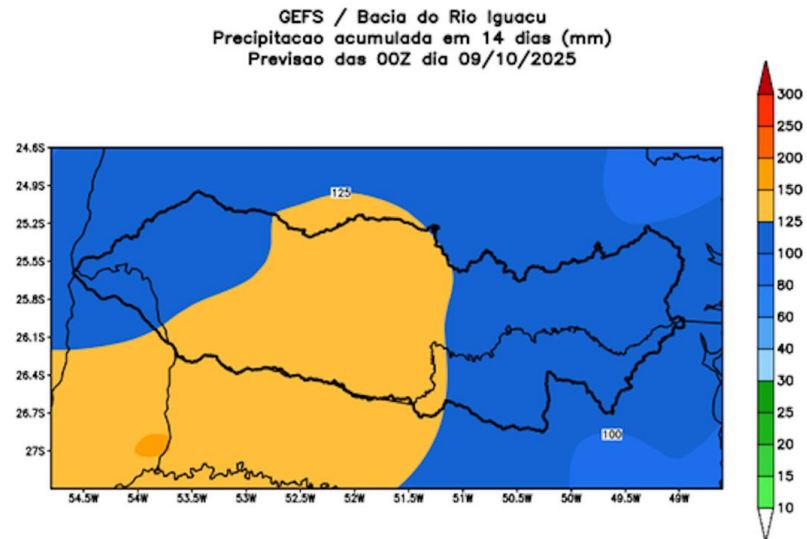
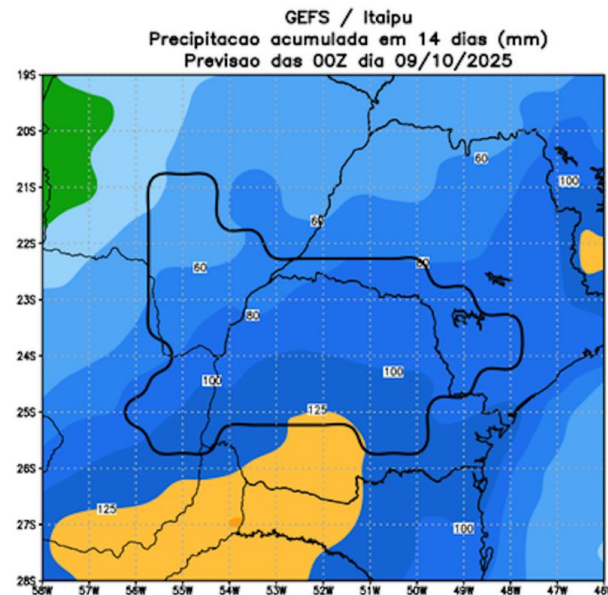
GEFS / Bacia do Rio Paranapanema
Precipitação acumulada em 14 dias (mm)
Previsão das 00Z dia 09/10/2025



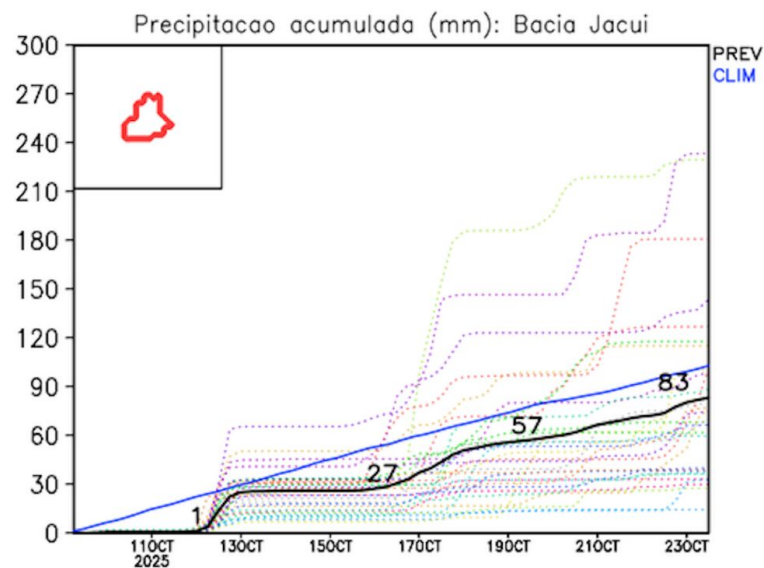
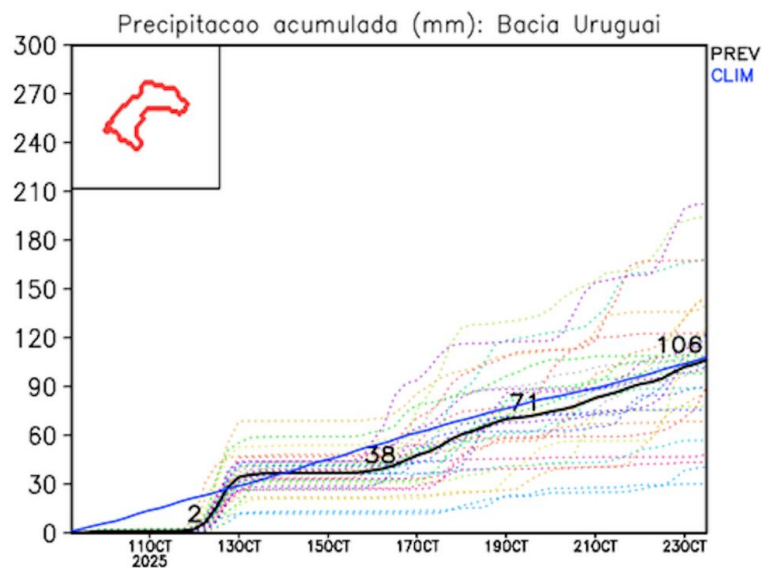
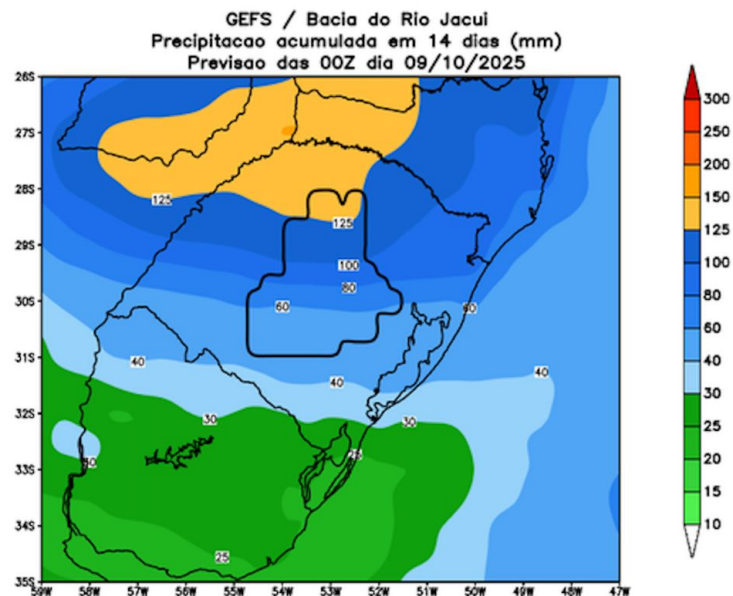
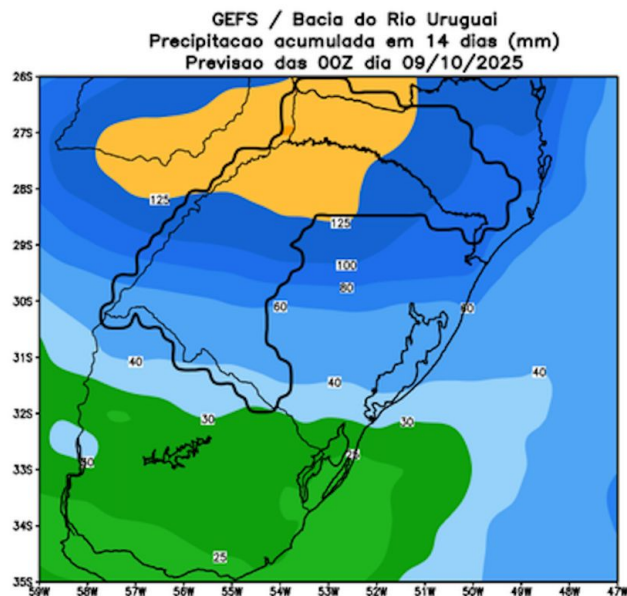
Precipitação acumulada (mm): Bacia Paranapanema



Previsão para as principais bacias



Previsão para as principais bacias

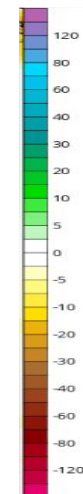
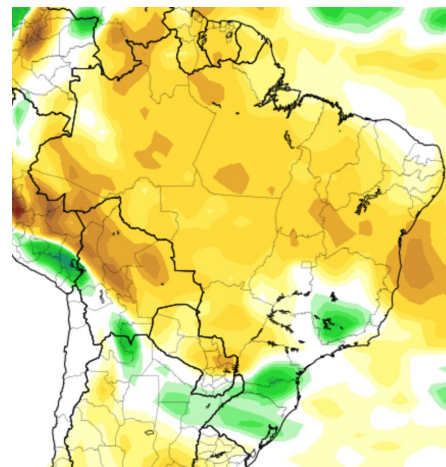
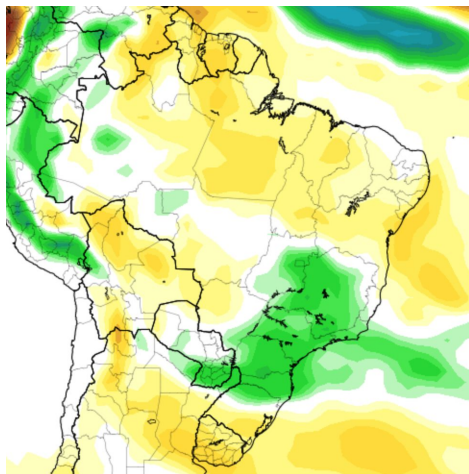


Anomalia de Chuva 3a e 4a semanas

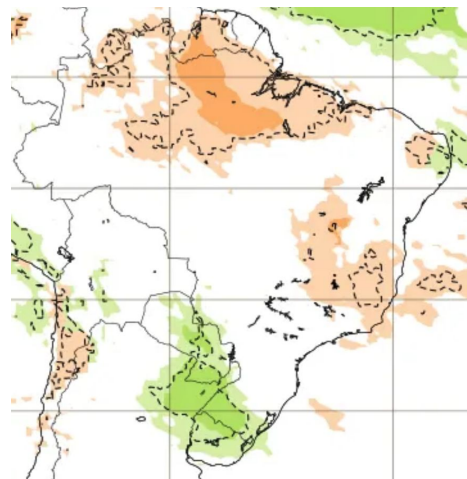
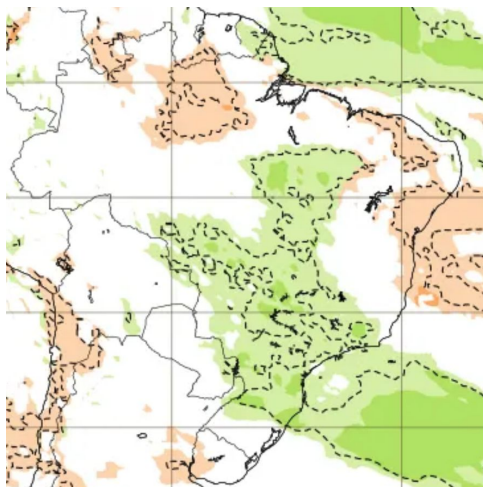
23-29 Outubro

30-05 Novembro

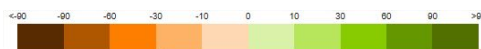
Modelo
Americano
CFS/NOAA



Modelo Europeu
ECMWF



20-26 Outubro

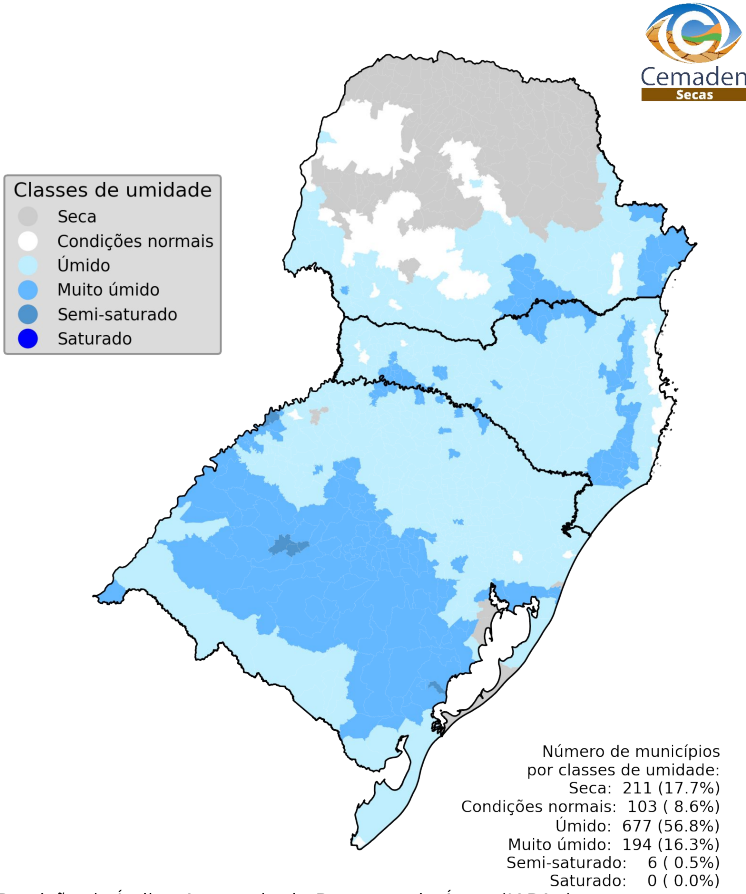
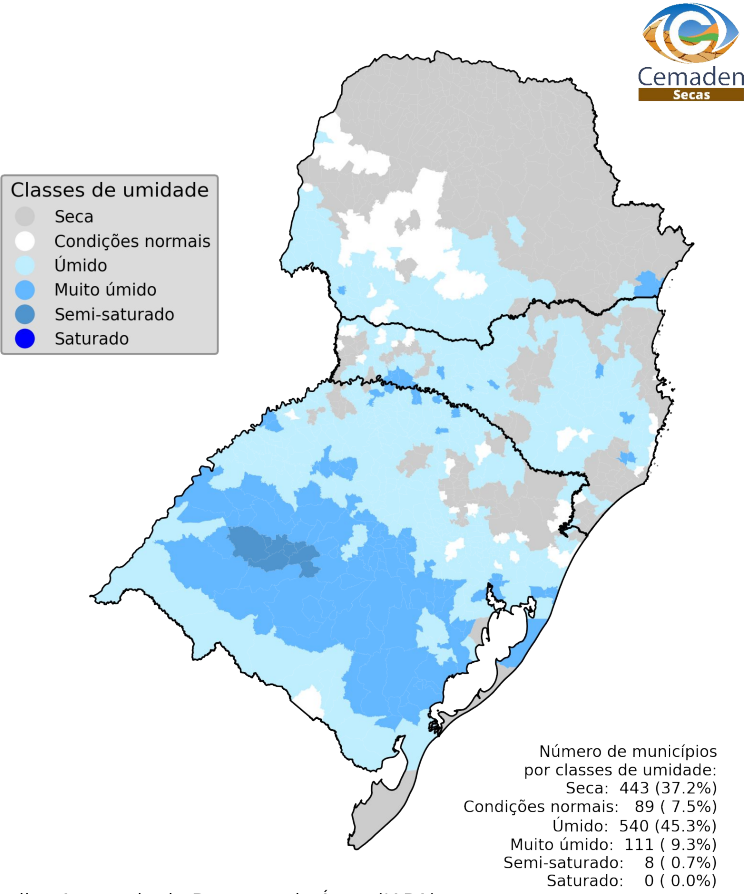


27 -02 Novembro

ÍNDICE AGREGADO DE RECURSOS DE ÁGUA (IARA)

SETEMBRO /25

OUTUBRO /25

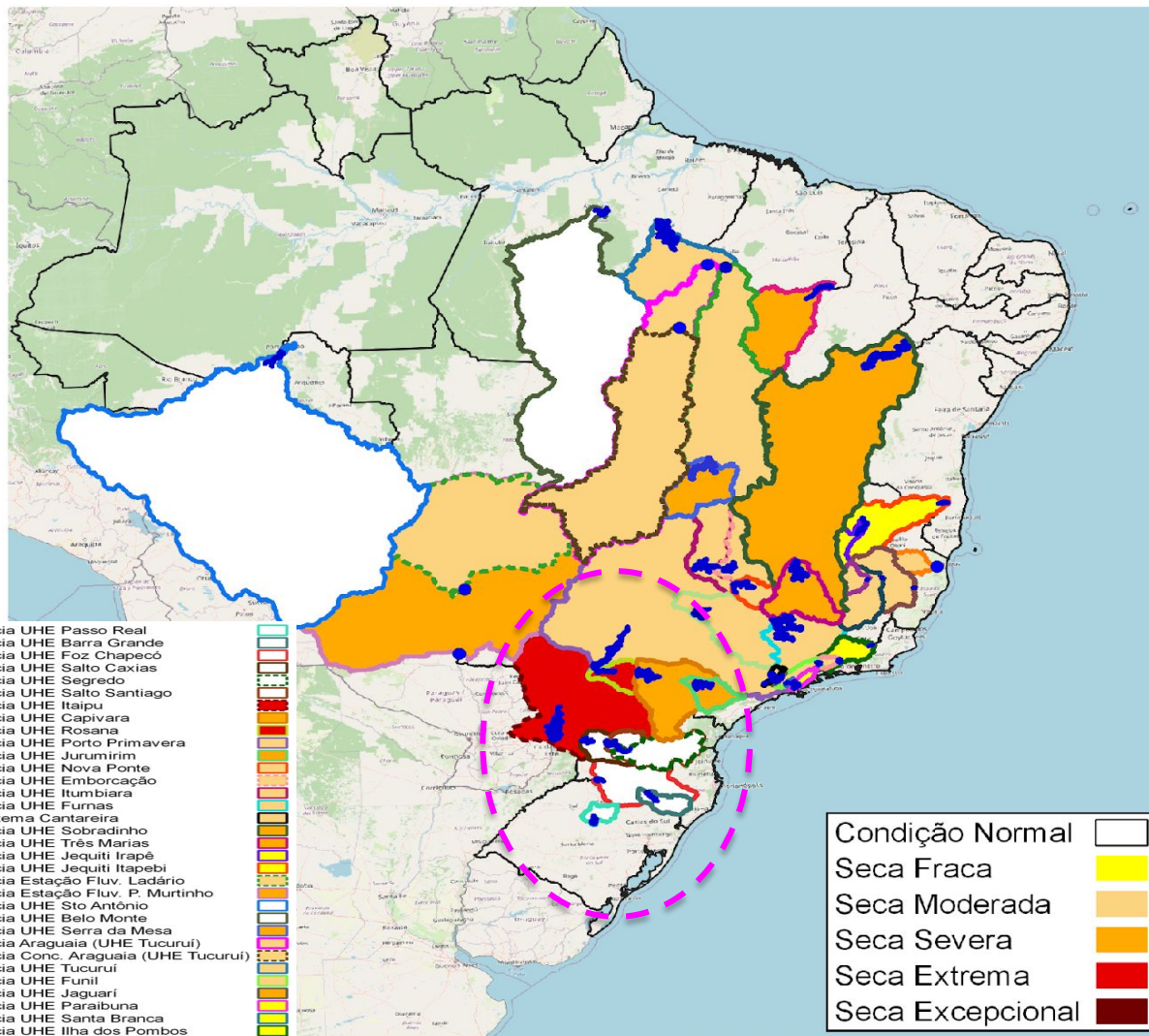


Índice Agregado de Recursos de Água (IARA)
setembro 2025
Fonte: Cemaden/MCTI

Previsão do Índice Agregado de Recursos de Água (IARAp)
outubro 2025
Fonte: Cemaden/MCTI

Índice Bivariado de Seca (Chuva-Vazão) – TSI (Two-variate Standardized Index)

Previsão Próximos 30 dias



Estabilidade Hidrológica:

- S. Santiago (Normalidade)
- S. Caxias (Normalidade)
- B. Grande (Normalidade)
- F. Chapecó (Normalidade)
- Passo Real (Normalidade)
- Jurumirim (Seca Severa)
- Capivara (Seca Severa)
- Rosana (Seca Extrema)
- Itaipu (Seca Extrema)
- P. Primavera (Seca Moderada)

Desintensificação da Seca:

- Segredo (Fraca-> Normal)

Fonte: CEMADEN/MCTI

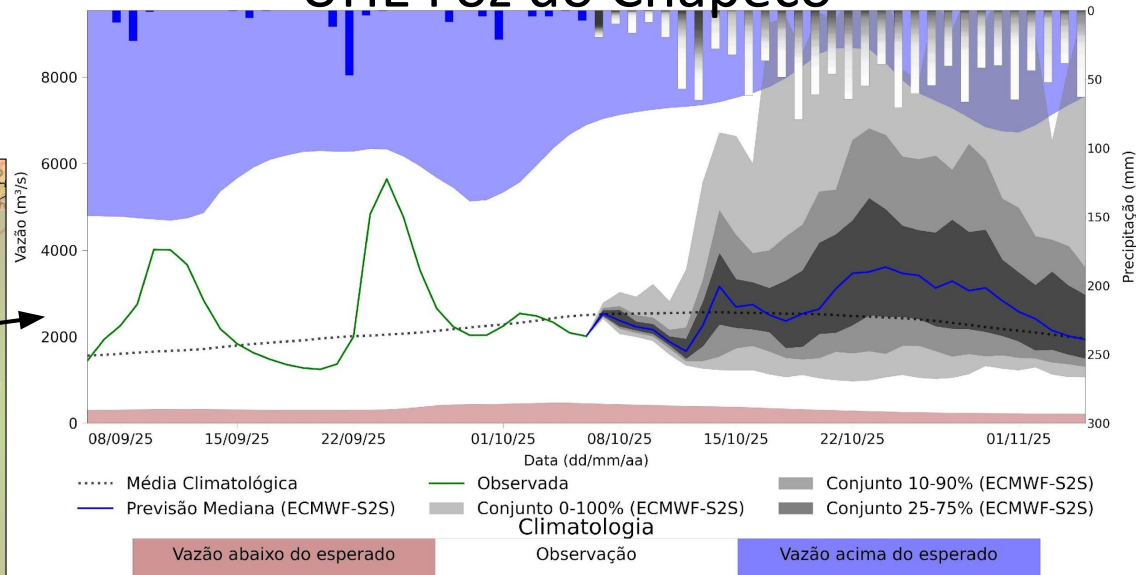
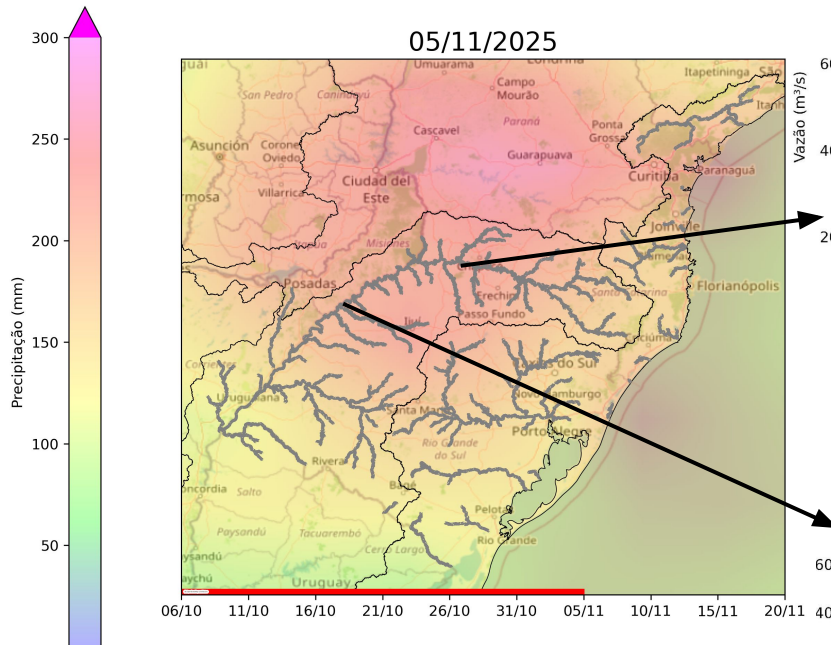
Previsão de Precipitação: *Climate Forecast System (CFS)*

Previsão de vazão natural na Região Sul

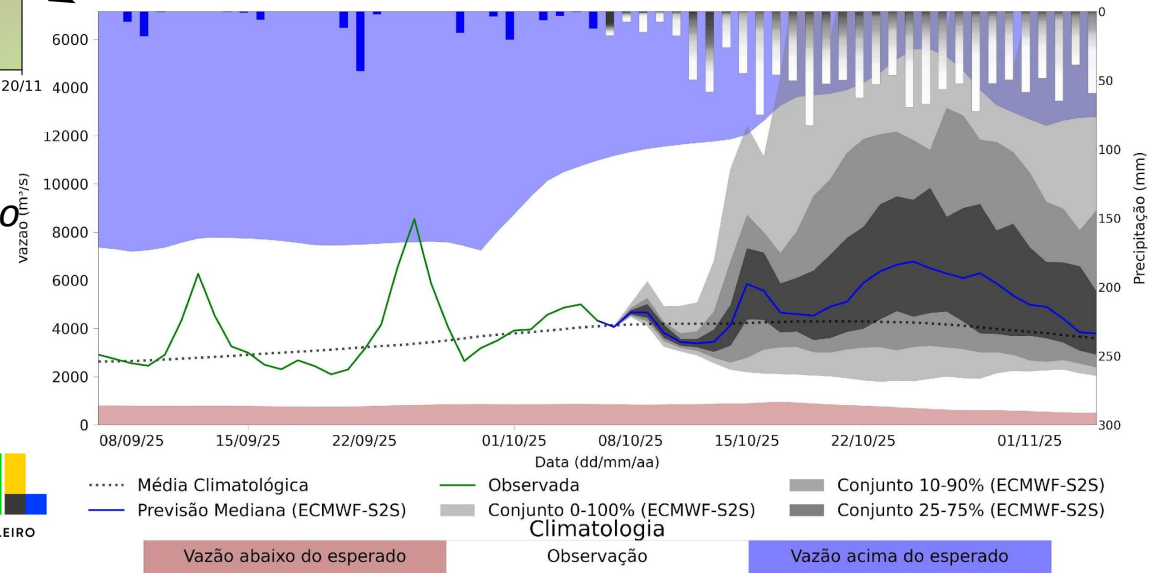
30 dias (Modelo hidrológico MHD)

UHE Foz do Chapecó

PREVISÃO: 06/10/25 a 05/11/25



Porto Lucena - RS

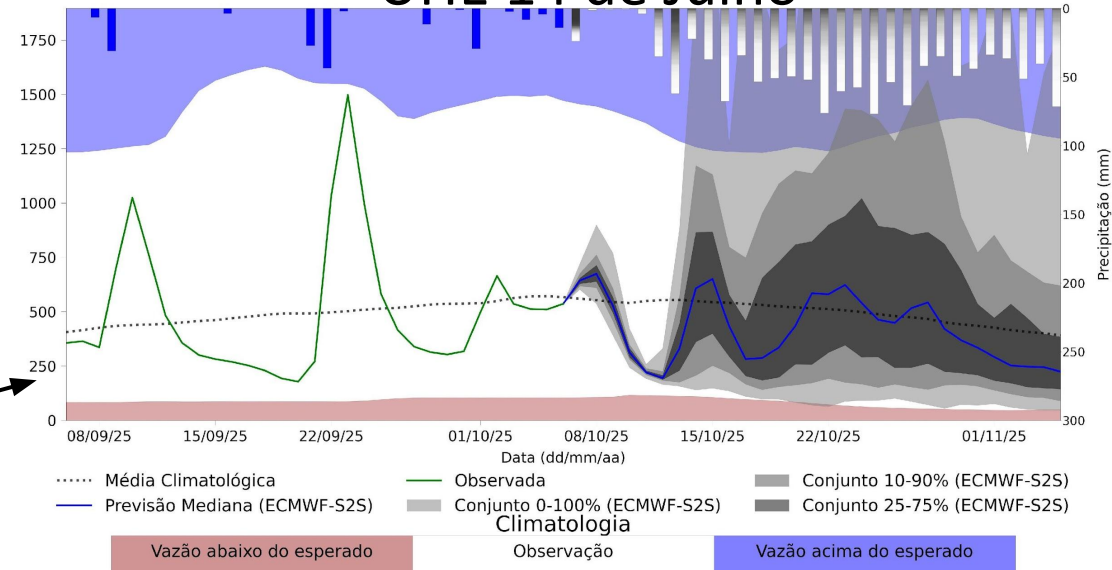
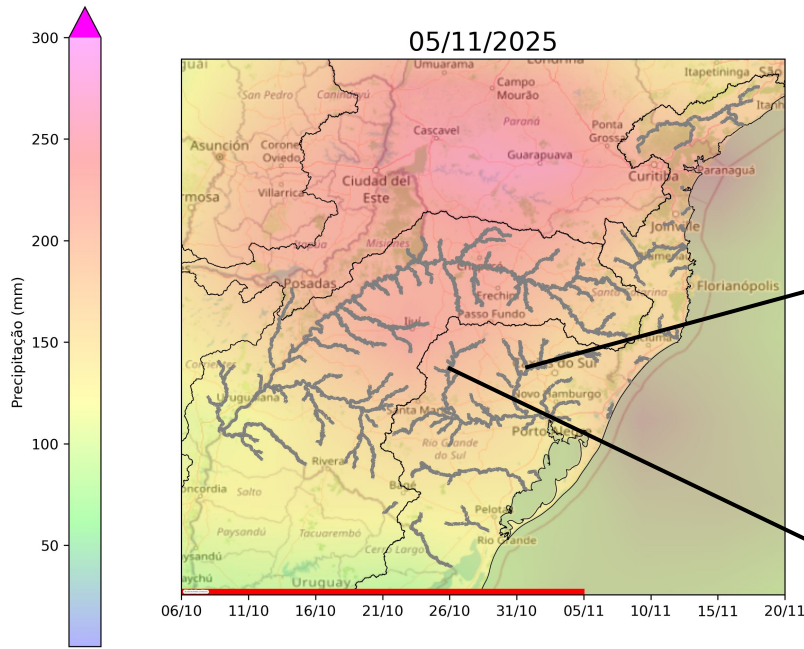


Fonte: Meteorologia (INMET/MERGE); Vazão (ANA/ONS)
MLT: 2003-2024
Previsão Meteorológica: ECMWF

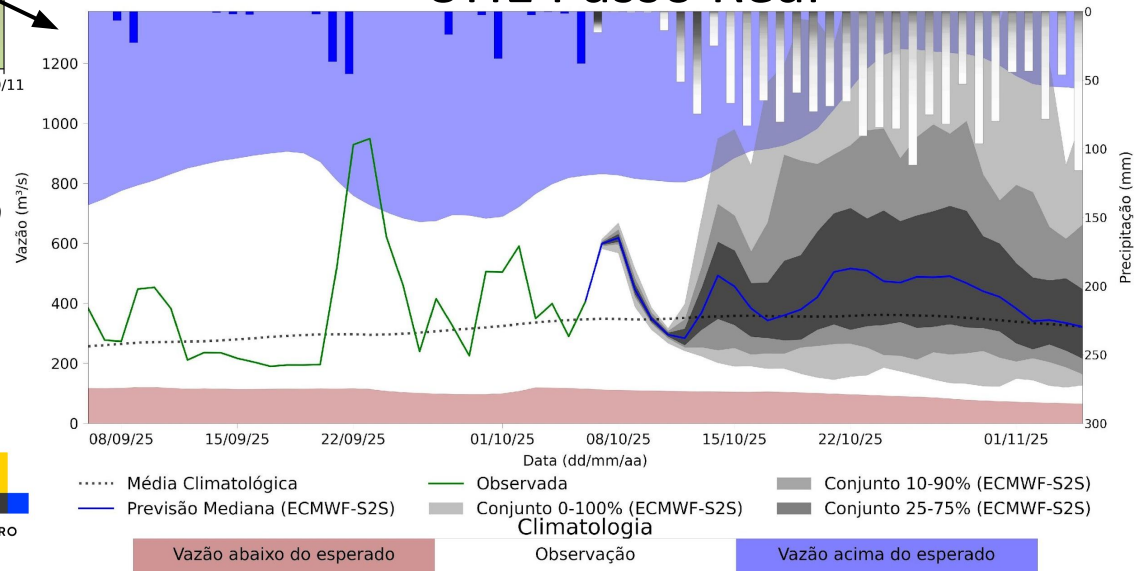
Previsão de vazão natural na Região Sul 30 dias (Modelo hidrológico MHD)

UHE 14 de Julho

PREVISÃO: 06/10/25 a 05/11/25



UHE Passo Real



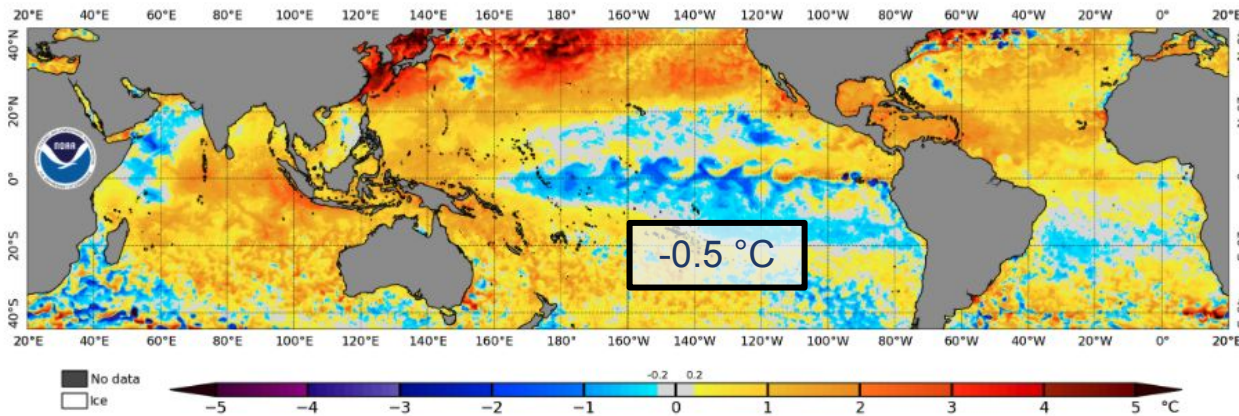
Fonte: Meteorologia (INMET/MERGE); Vazão (ANA/ONS)

MLT: 2003-2024

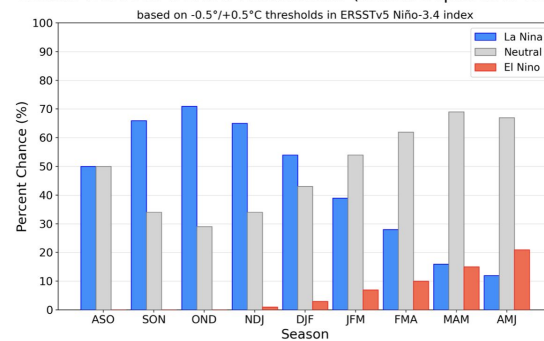
Previsão Meteorológica: ECMWF

Status Atual: **Neutro - La Niña Watch**

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



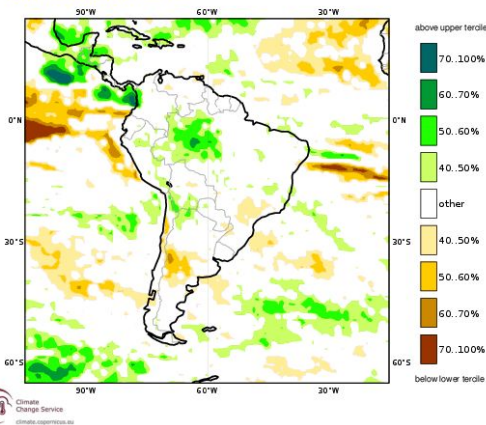
Official NOAA CPC ENSO Probabilities (issued September 2025)



Previsão Sazonal Anomalia de Chuva outubro-novembro-dezembro

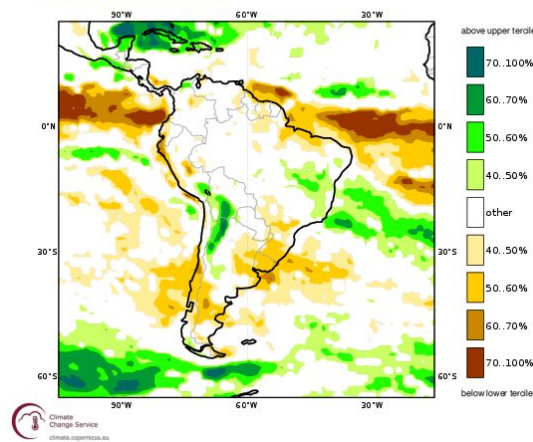
C3S: ECMWF contribution
Prob(most likely category of precipitation)
Nominal forecast start: 01/09/25
Ensemble size = 51, climate size = 600

OND 2025



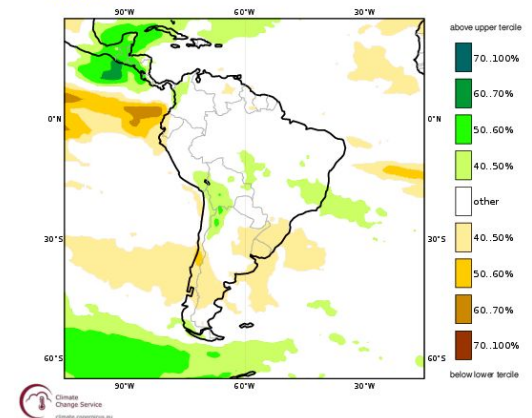
C3S: NCEP contribution
Prob(most likely category of precipitation)
Nominal forecast start: 01/09/25
Ensemble size = 52, climate size = 384

OND 2025



C3S multi-system seasonal forecast
Prob(most likely category of precipitation)
Nominal forecast start: 01/09/25
Unweighted mean

OND 2025



Modelo do Centro
Europeu

Modelo dos
EUA

Combinação de
vários países