



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

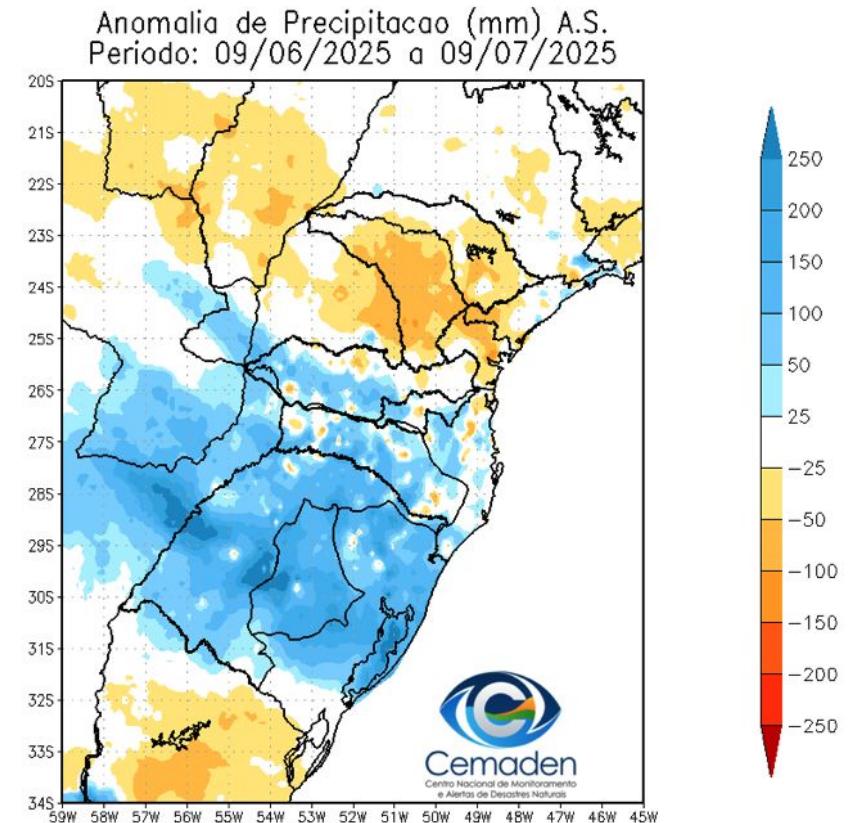
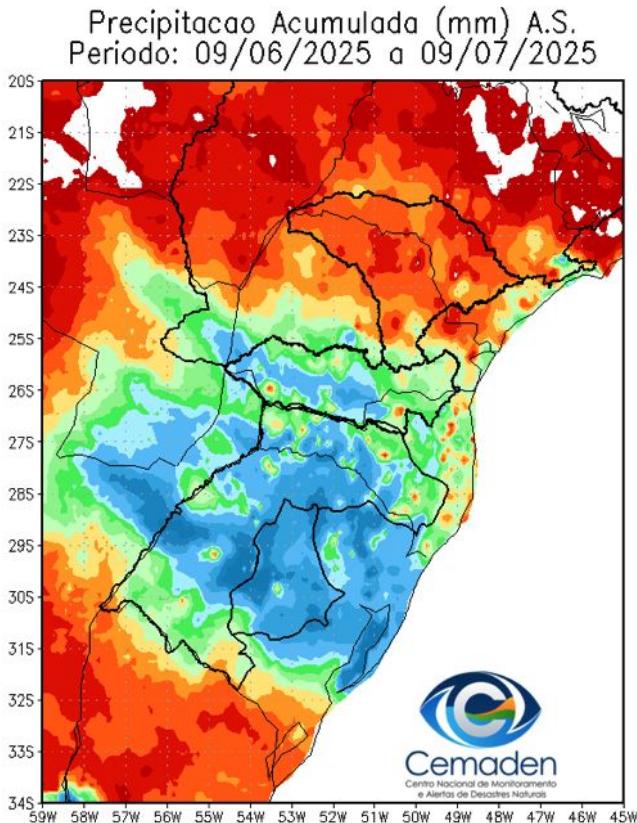
Capacidade de Resposta



**Monitoramento e
Previsões da situação
hidrometeorológica na
Região Sul**

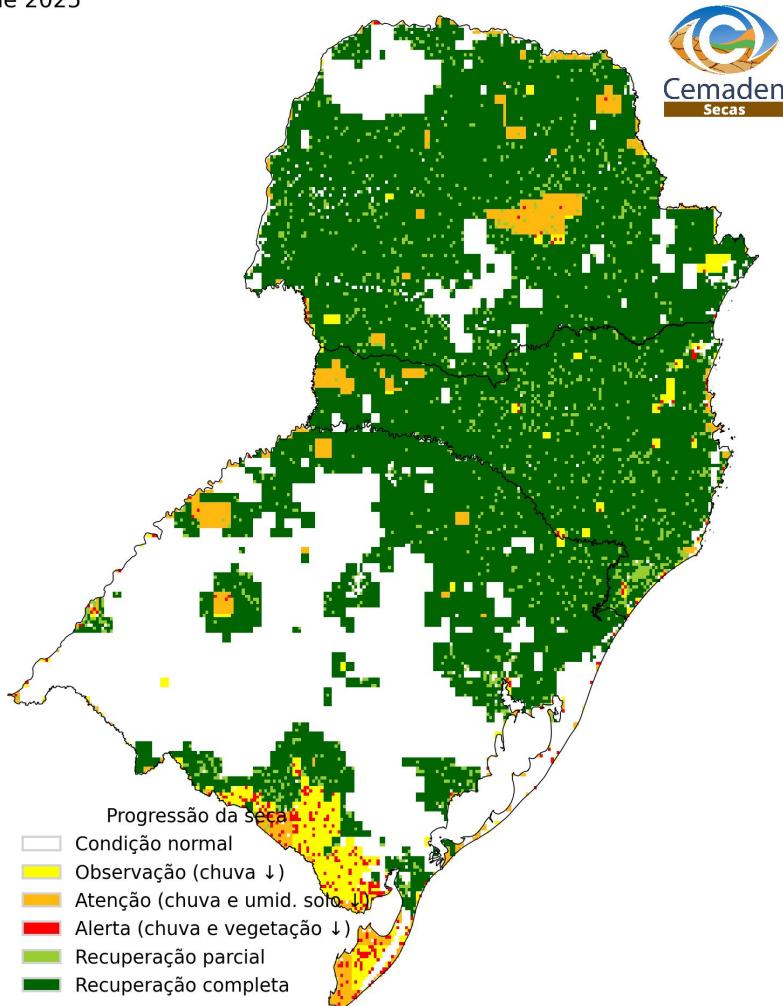
JULHO 2025

Precipitação nos últimos 30 dias

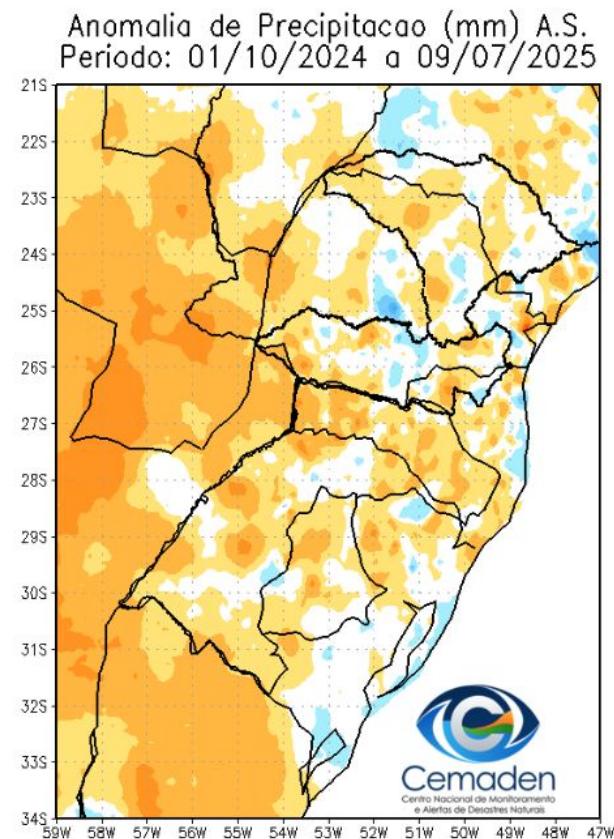
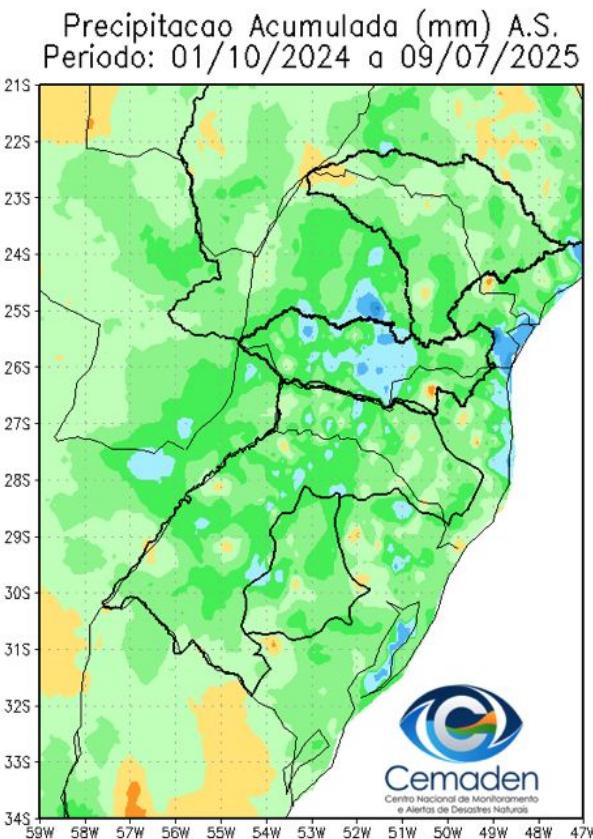


PROPAGAÇÃO INCREMENTAL DAS CONDIÇÕES DE SECA (PICS)

Progressão e Intensificação das Condições de Seca (PICS)
June 2025

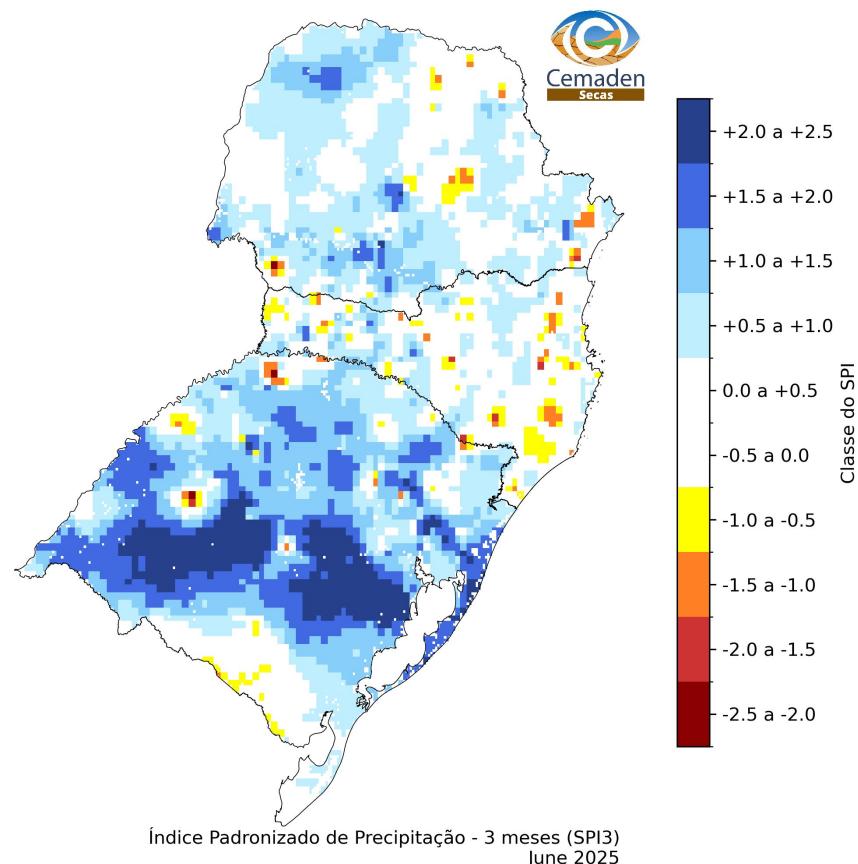


Precipitação no Ano Hidrológico

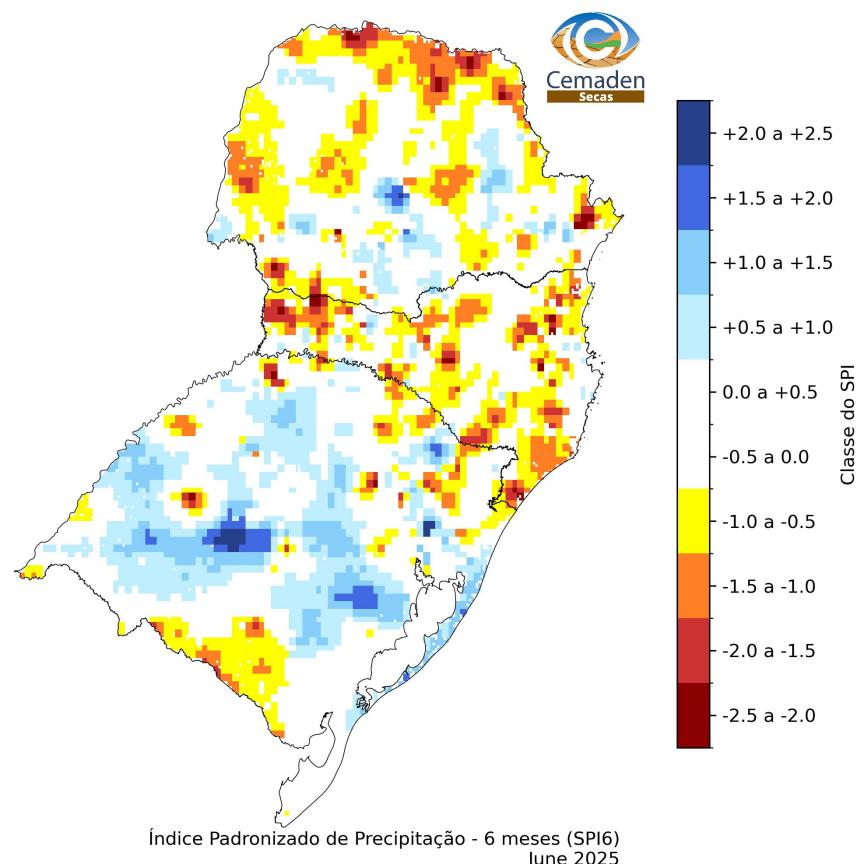


SPI: JUNHO 2025

SPI-03

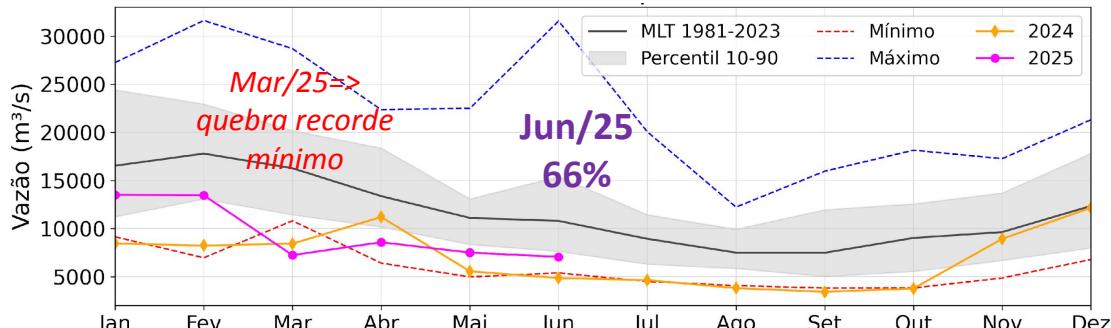
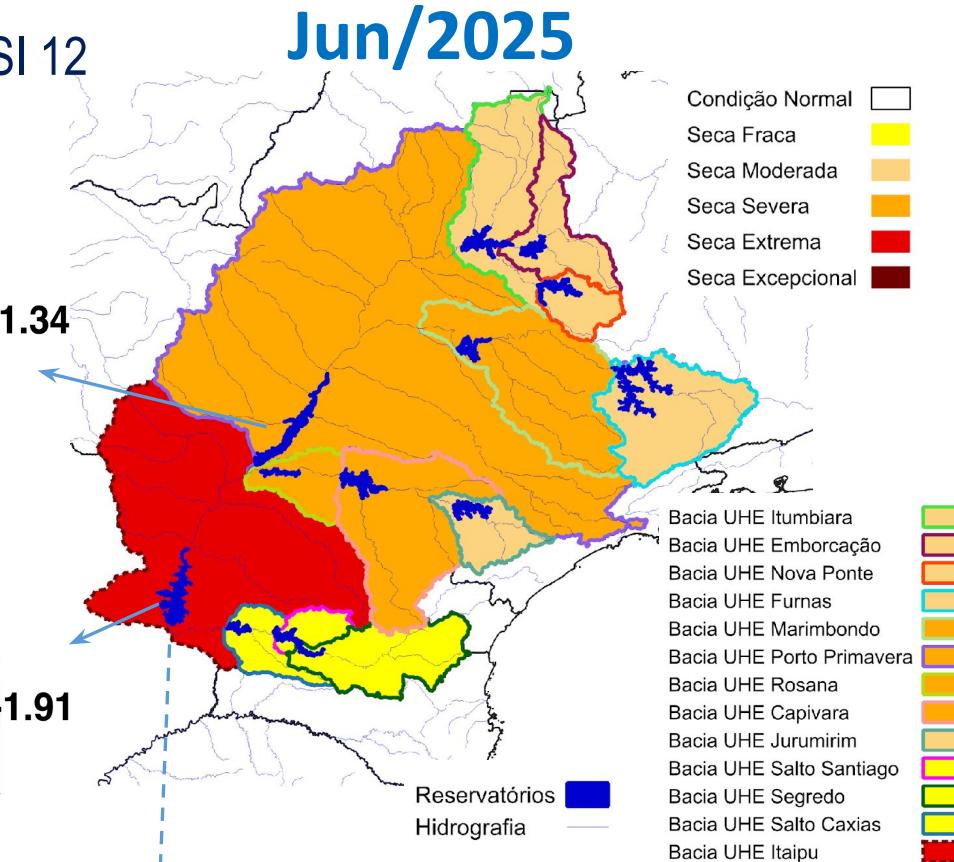
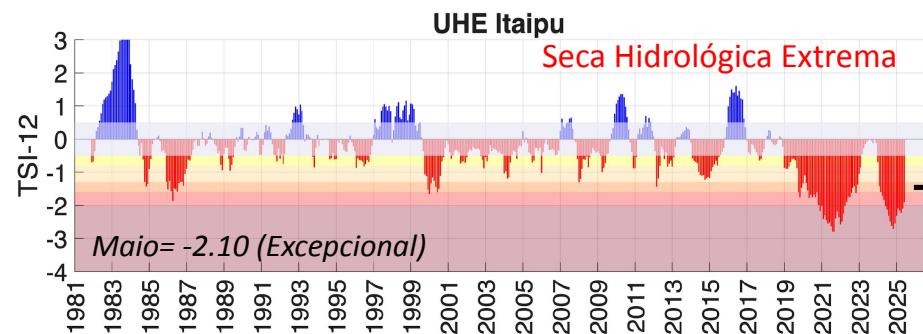
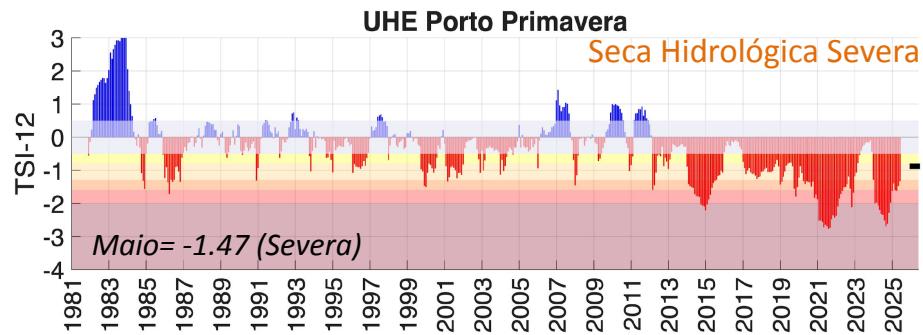


SPI-06



BACIA DO RIO PARANÁ

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



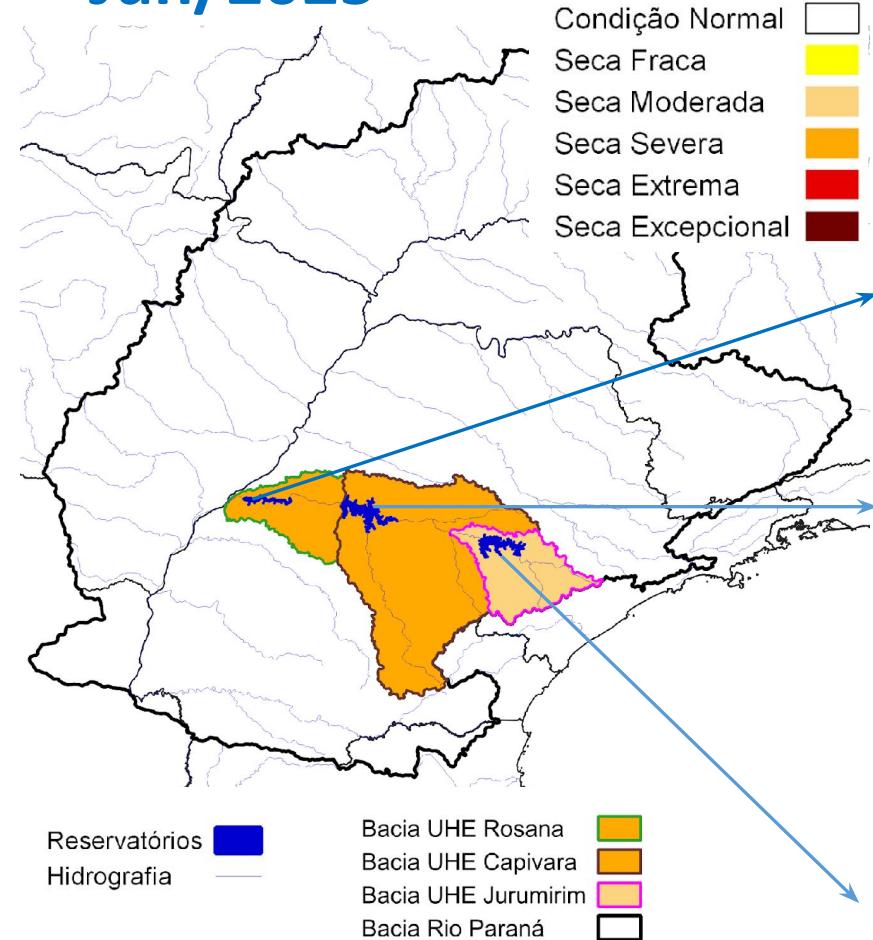
Fonte: CEMADEN/MCTI

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

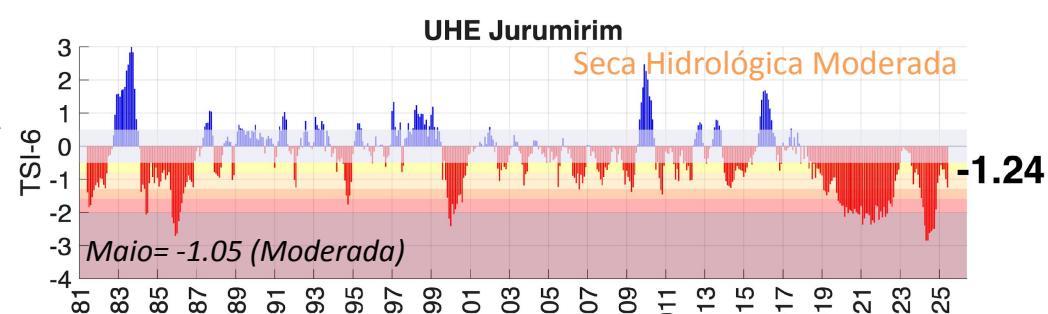
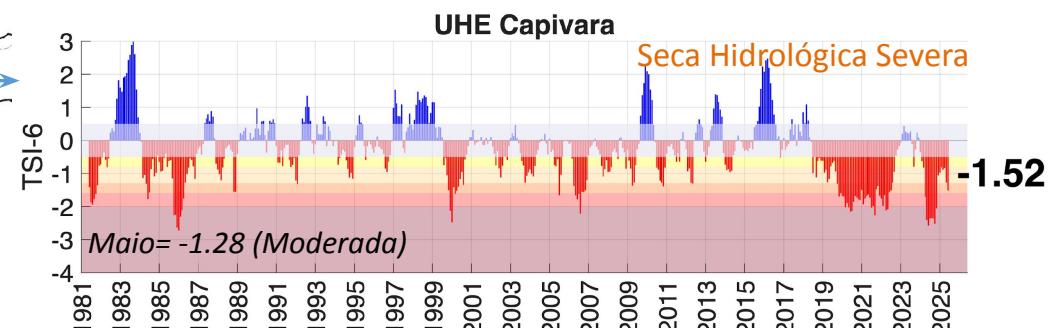
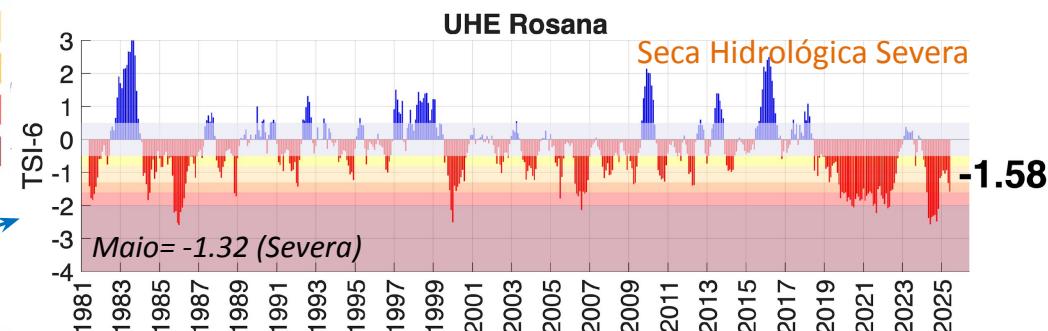
Período: Jan/1981 – Jun/2025

BACIA DO RIO PARANAPANEMA

Jun/2025



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



Fonte: CEMADEN/MCTI

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

Período: Jan/1981 – Jun/2025

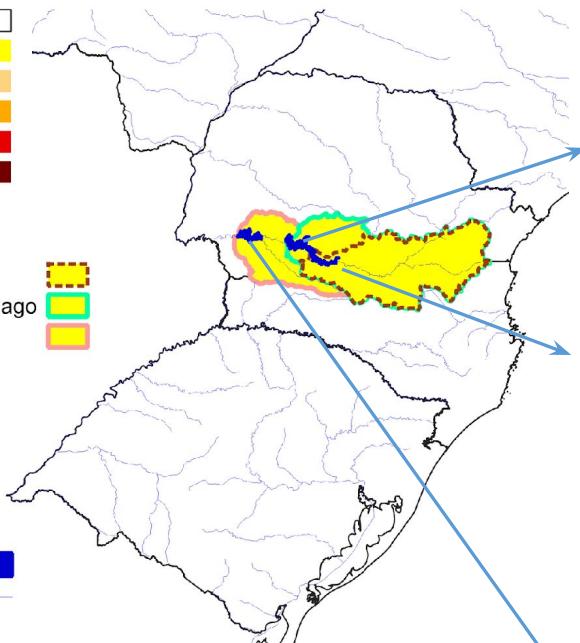
BACIA DO RIO IGUAÇU

Jun/2025

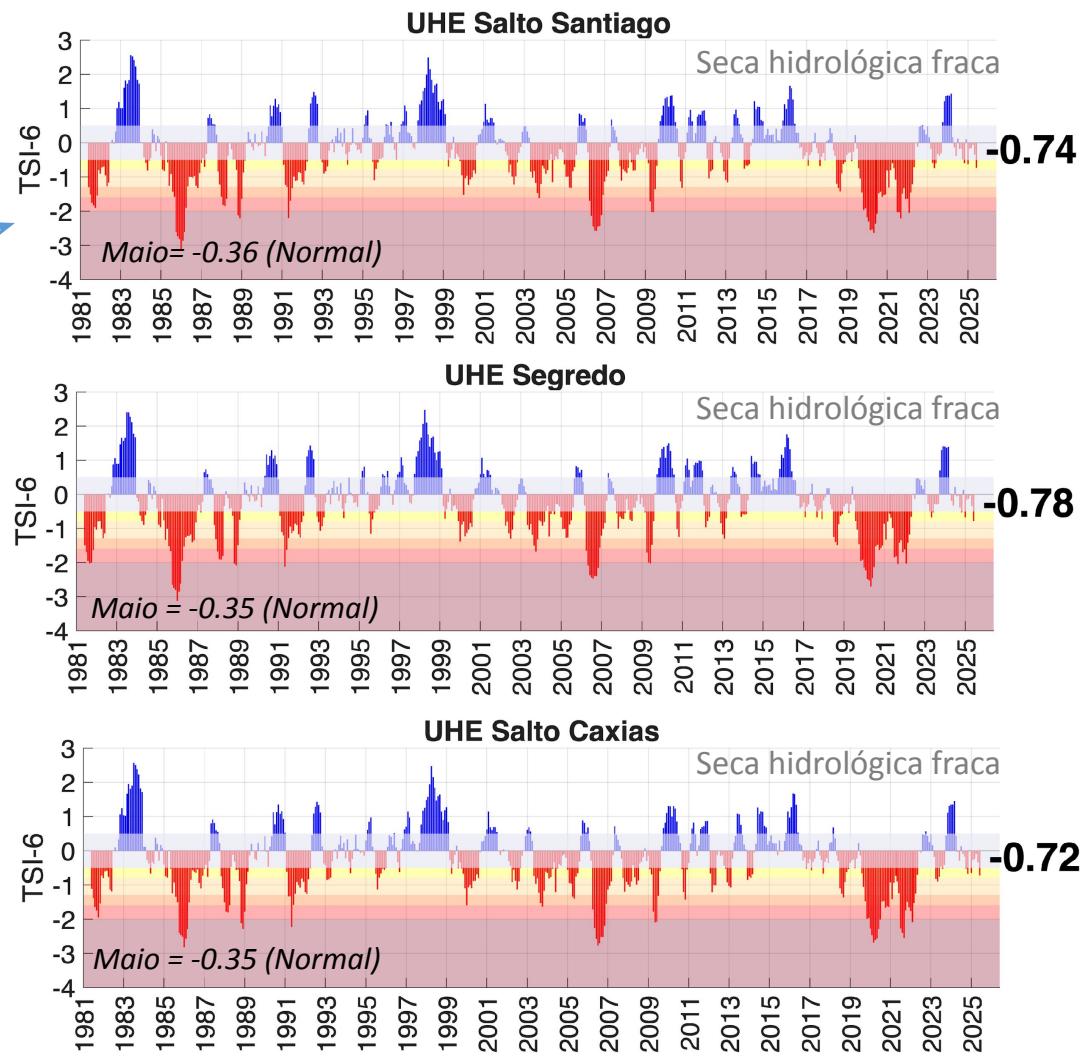
Condição Normal
Seca Fraca
Seca Moderada
Seca Severa
Seca Extrema
Seca Excepcional

Bacia UHE Segredo
Bacia UHE Salto Santiago
SaltoCaxias

Reservatórios
Hidrografia



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



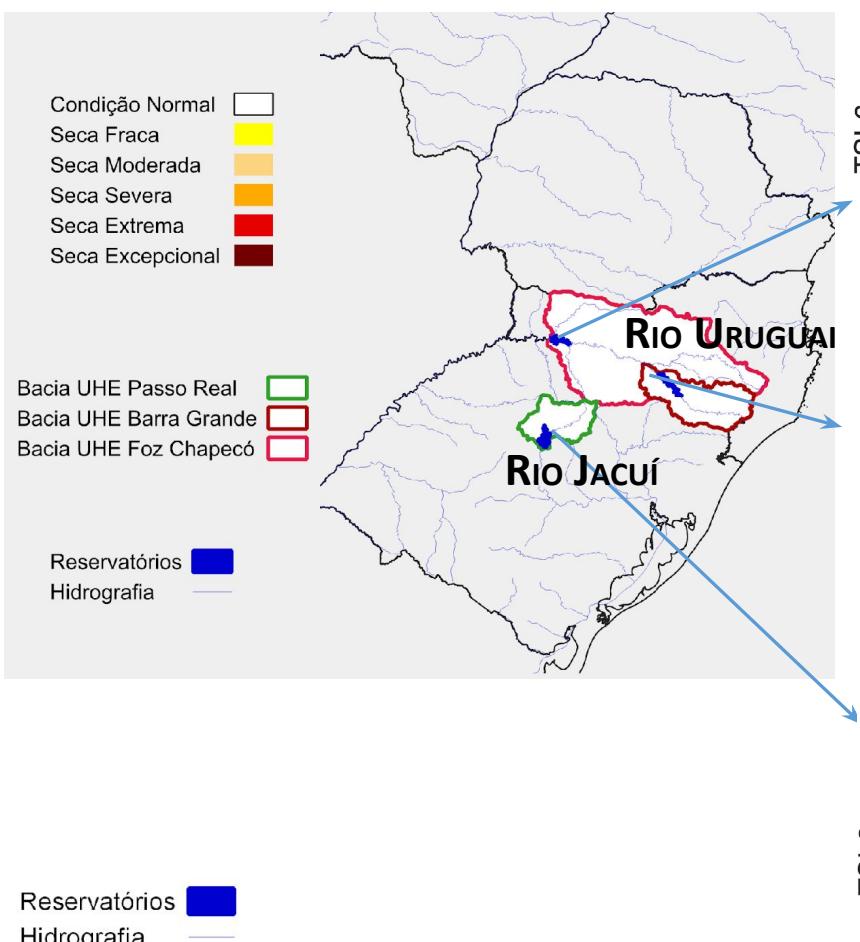
Fonte: CEMADEN/MCTI

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

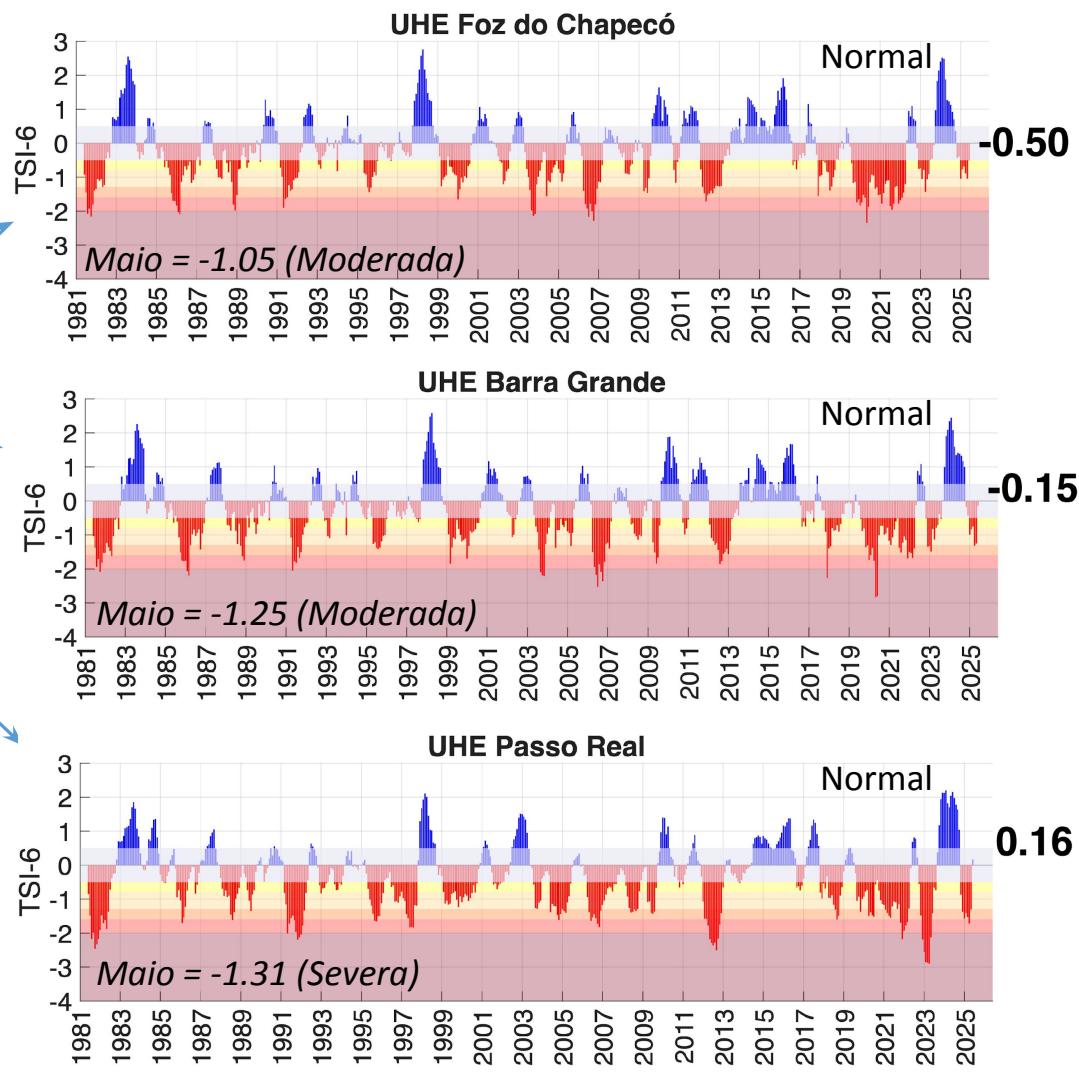
Período: Jan/1981 – Jun/2025

BACIAS HIDROGRÁFICAS: ESTADOS SC-RS

Jun/2025



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



Fonte: CEMADEN/MCTI

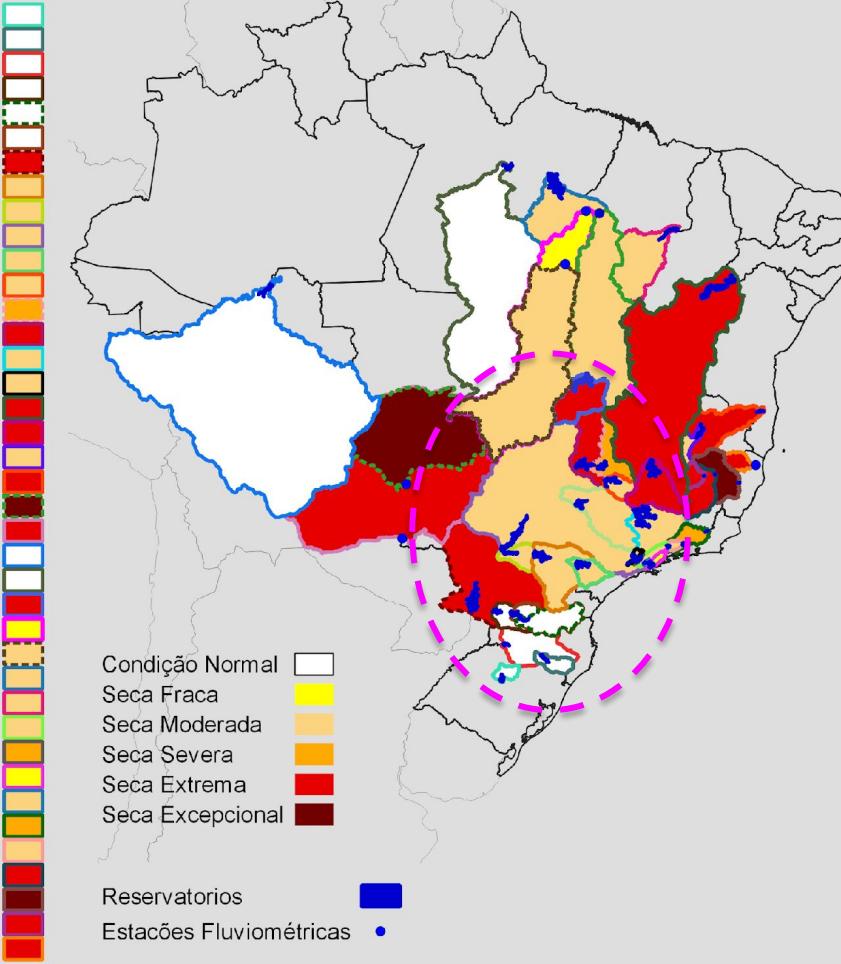
Dados: Precipitação (CHIRPS) e Vazão (ONS e ANA)

Período: Jan/1981 – Jun/2025

Índice de Seca Bivariado (Chuva-Vazão) – TSI (Two-variate Standardized Index – Escala de 6 meses)

Previsão Próximos 30 dias

Bacia UHE Passo Real
Bacia UHE Barra Grande
Bacia UHE Foz Chapecó
Bacia UHE Salto Caxias
Bacia UHE Segredo
Bacia UHE Salto Santiago
Bacia UHE Itaipu
Bacia UHE Capivara
Bacia UHE Rosana
Bacia UHE Porto Primavera
Bacia UHE Jurumirim
Bacia UHE Nova Ponte
Bacia UHE Emborcação
Bacia UHE Itumbiara
Bacia UHE Furnas
Sistema Cantareira
Bacia UHE Sobradinho
Bacia UHE Três Marias
Bacia UHE Jequití Irapé
Bacia UHE Jequití Itapebi
Bacia Estação Fluv. Ladário
Bacia Estação Fluv. P. Murtinho
Bacia UHE Sto Antônio
Bacia UHE BeloMonte
Bacia UHE Serra da Mesa
Bacia Araguaia (UHE Tucuruí)
Bacia Conc. Araguaia (UHE Tucuruí)
Bacia UHE Tucuruí
Bacia UHE Boa Esperança
Bacia UHE Funil
Bacia UHE Jaguari
Bacia UHE Paraibuna
Bacia UHE Santa Branca
Bacia UHE Ilha dos Pombos
Bacia UHE Santa Cecília
Bacia UHE Baguari
Bacia UHE Mascarenhas
Bacia UHE Porto Estrela
Bacia Estação Fluv. Boca da Vala



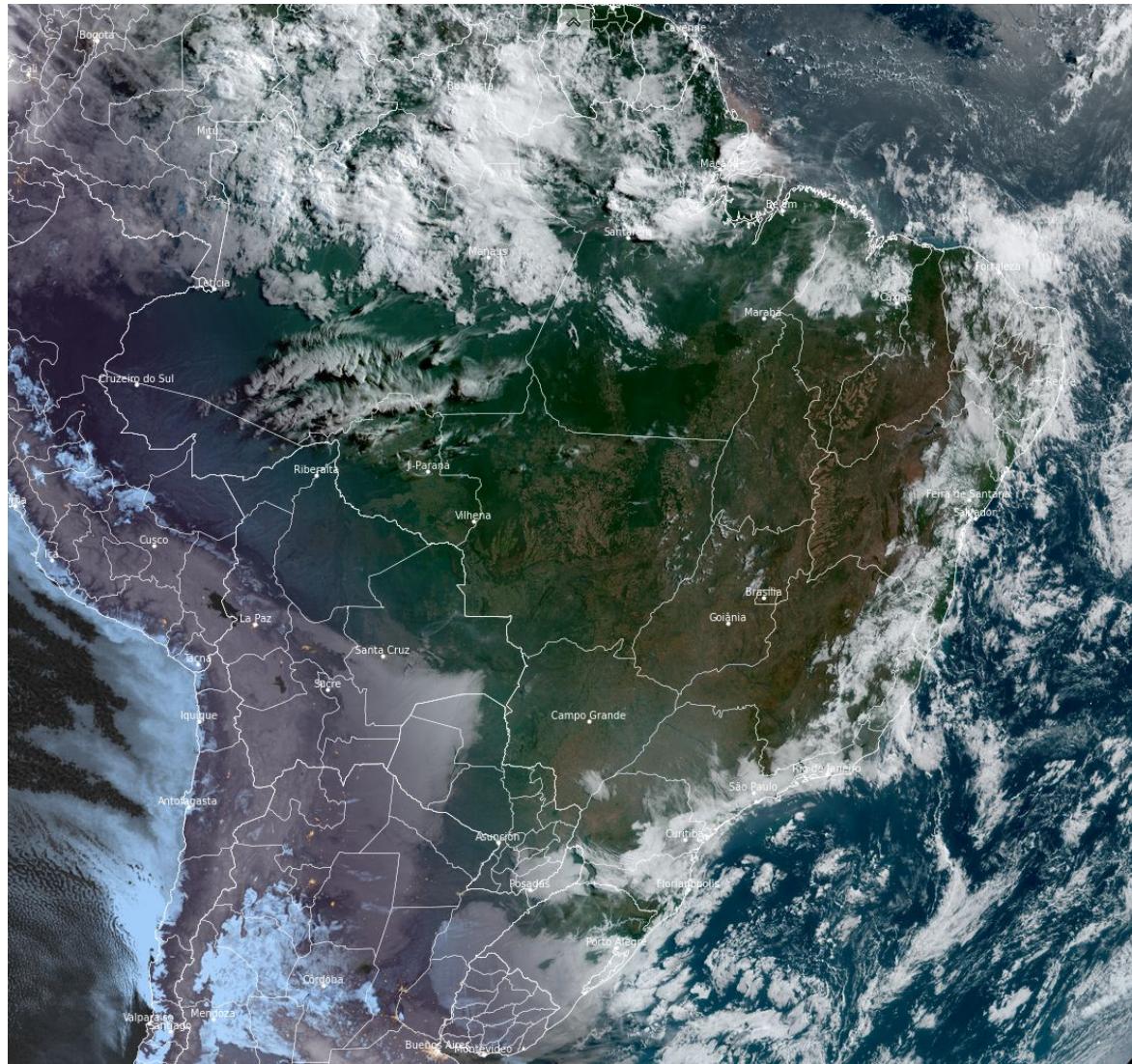
Desintensificação da seca:

- P. Primavera (Sev.-> Mod.)
- Capivara (Sev.-> Mod.)
- Rosana (Sev.-> Mod.)
- Segredo (Fraca-> Normal)
- S. Santiago (Fraca-> Normal)
- S. Caxias (Fraca-> Normal)

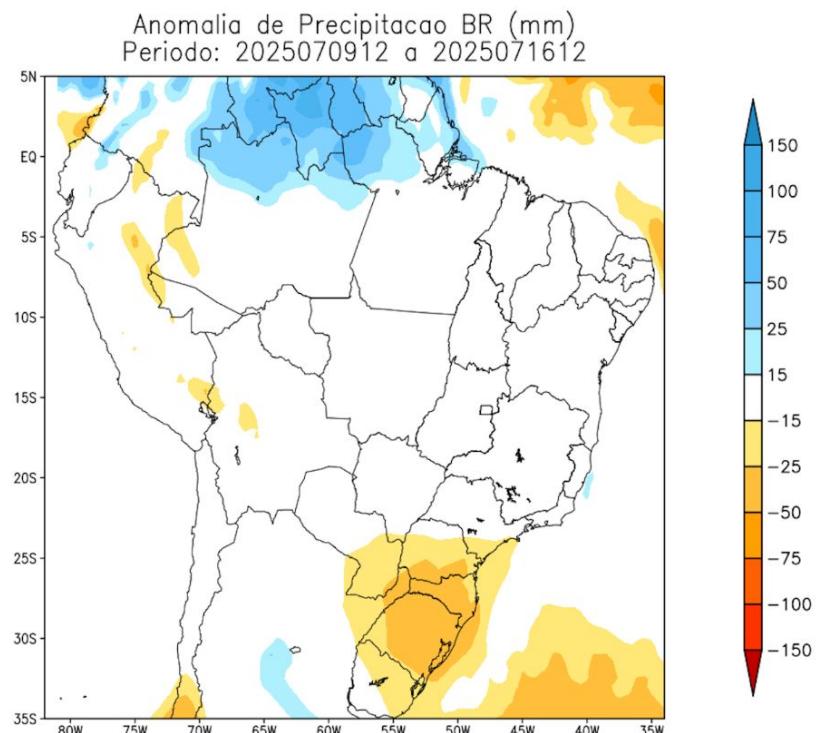
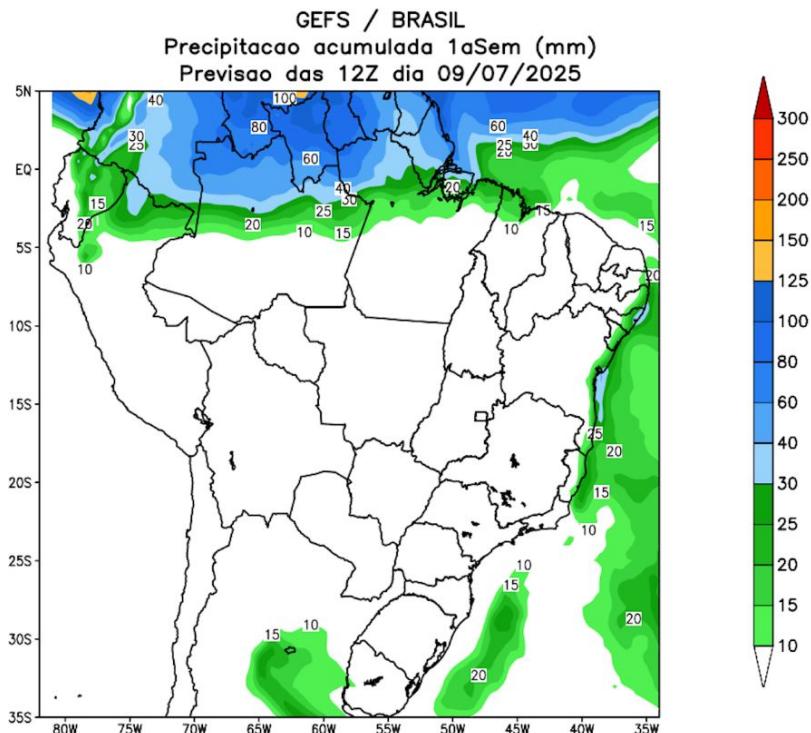
Estabilidade da seca:

- Itaipu (Extrema)
- Jurumirim (Severa)
- B. Grande (Normal)
- F. Chapecó (Normal)
- Passo Real (Normal)

Situação meteorológica atual

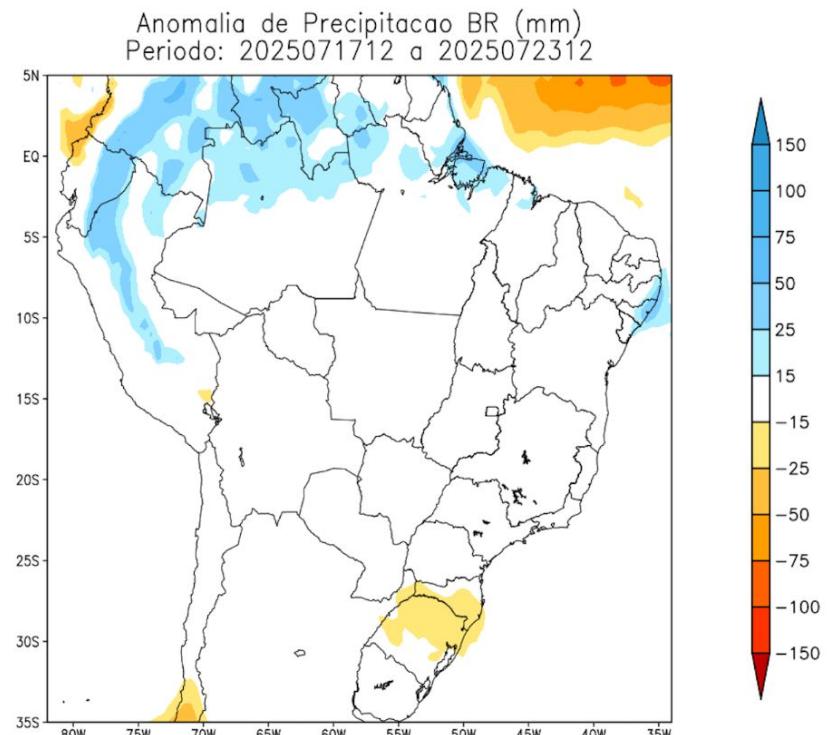
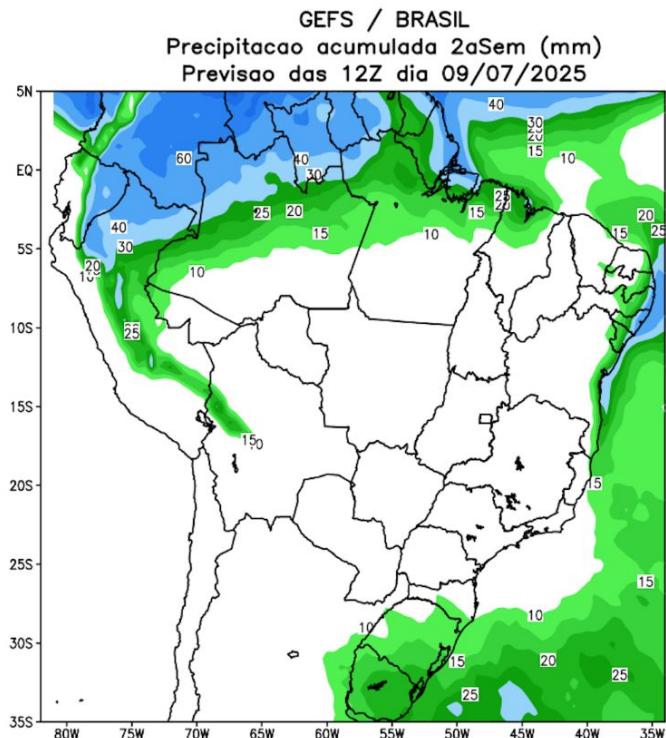


Previsão de chuva próximos 7 dias



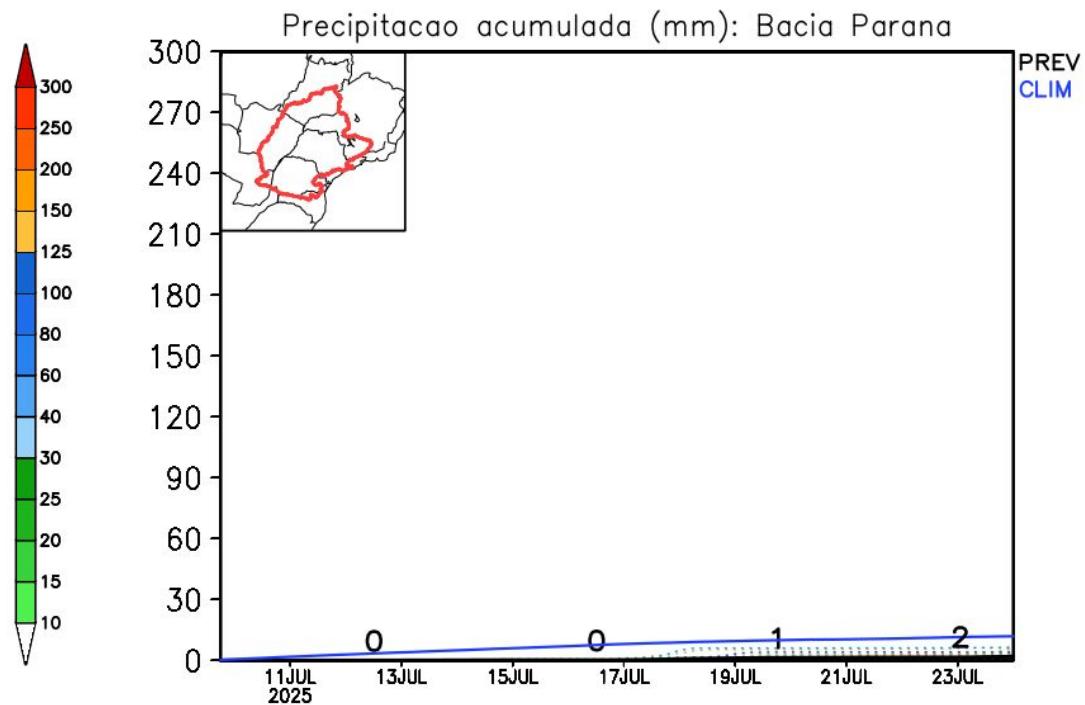
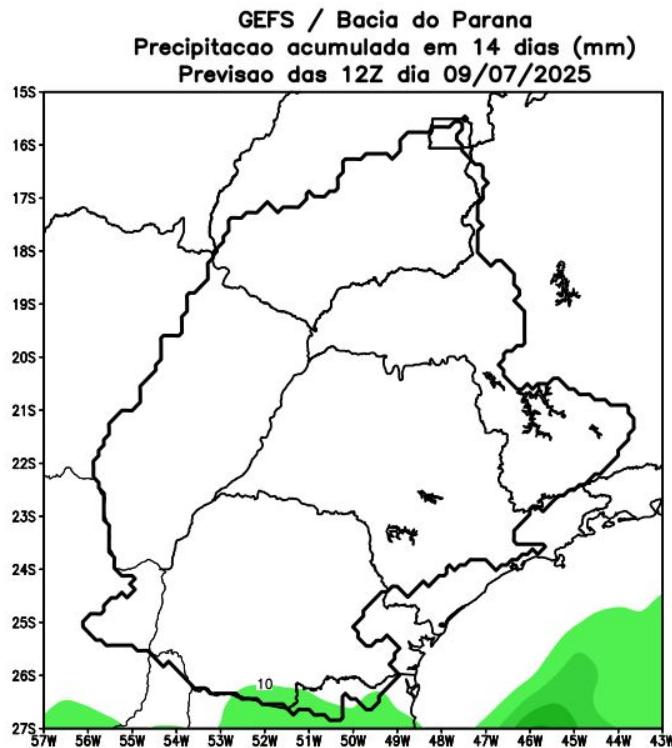
MODELO GEFS

Tendência para a segunda semana



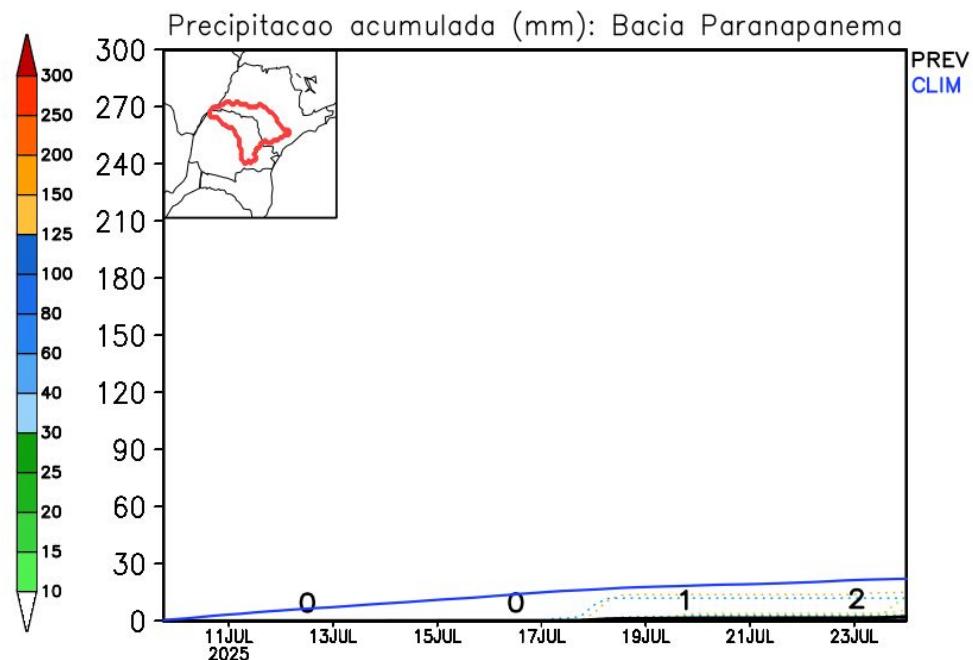
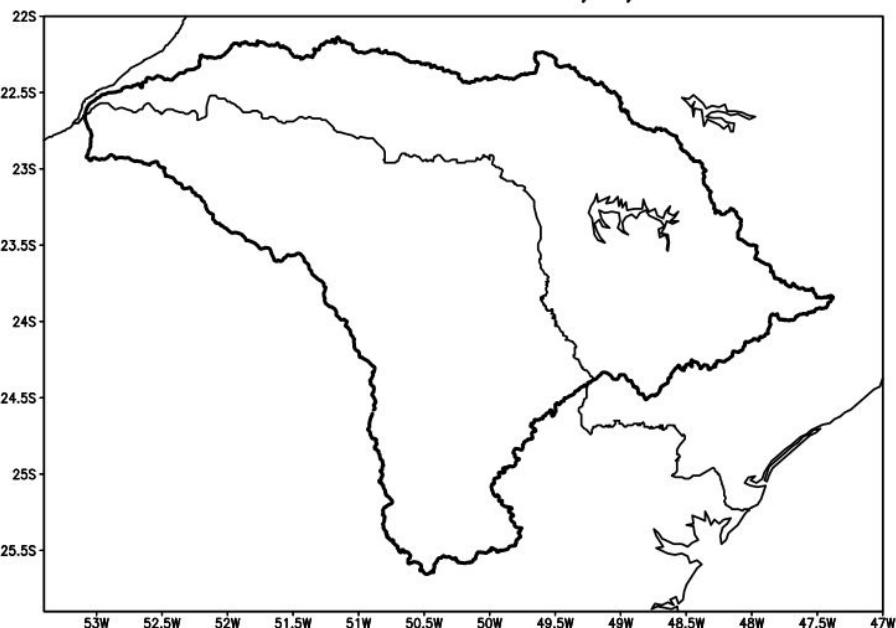
MODELO GEFS

Previsão para bacia do Paraná

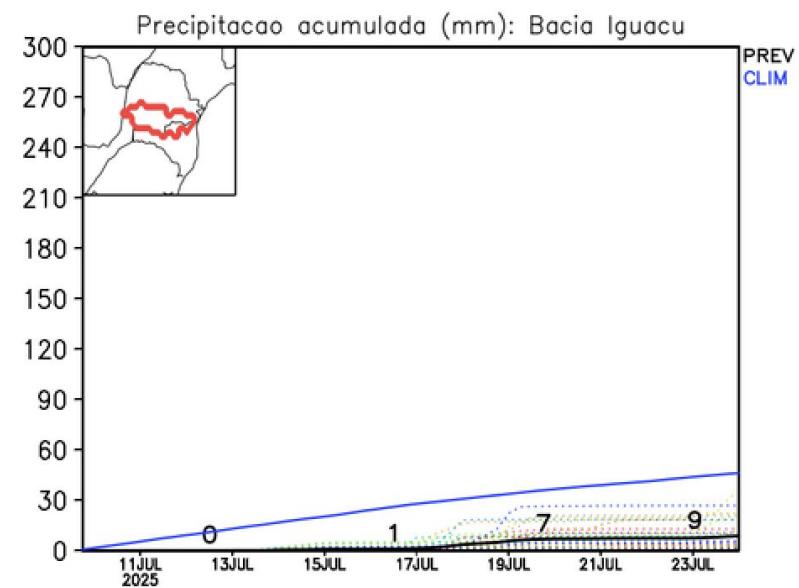
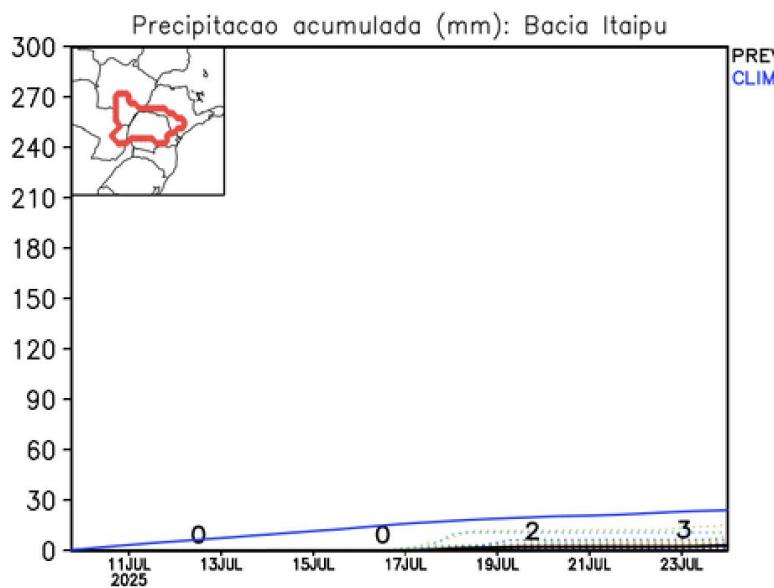
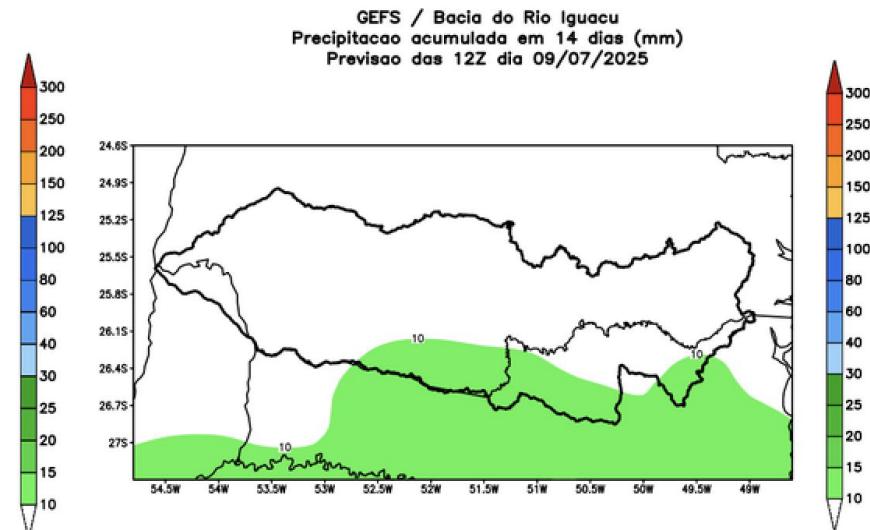
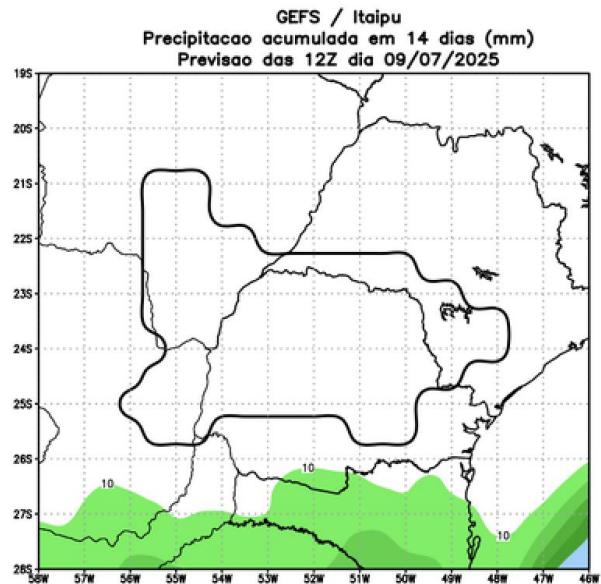


Previsão para as principais bacias

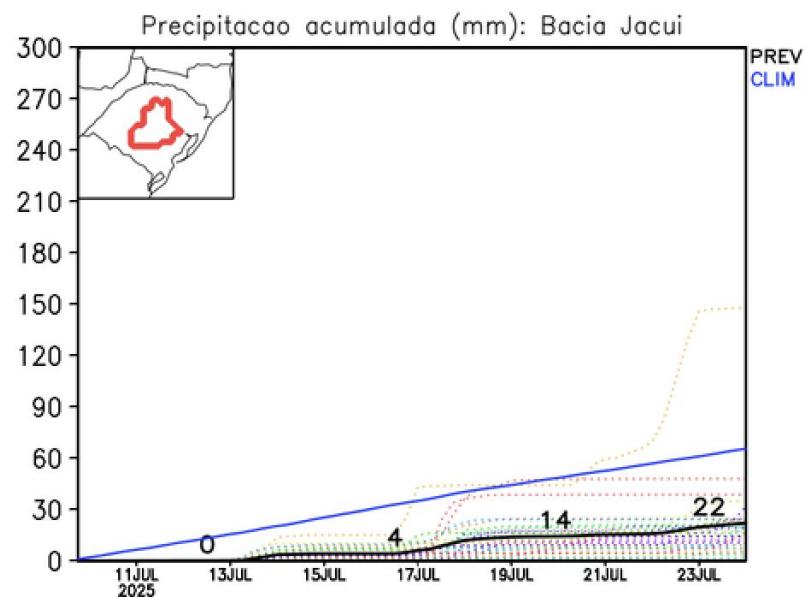
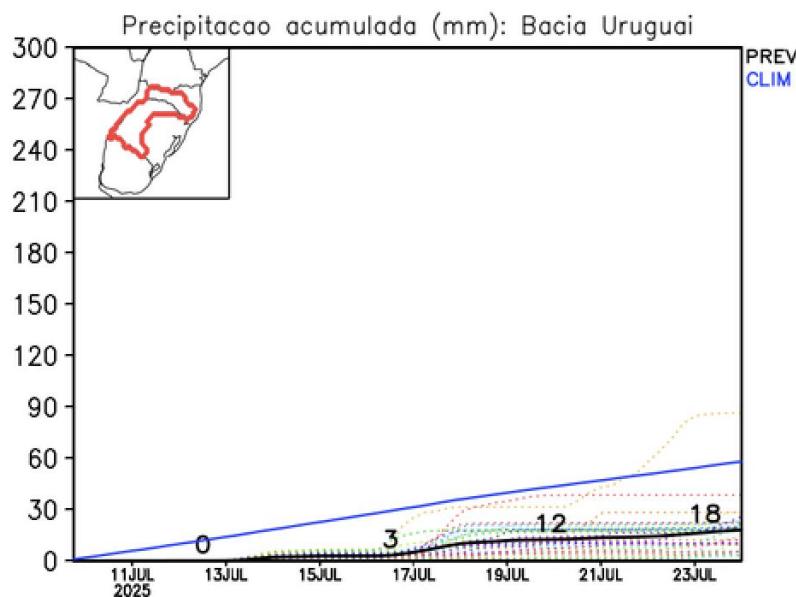
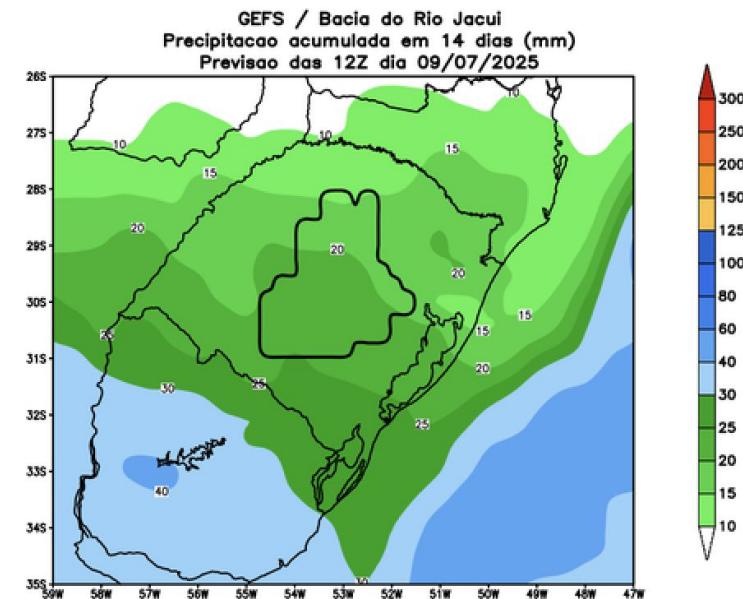
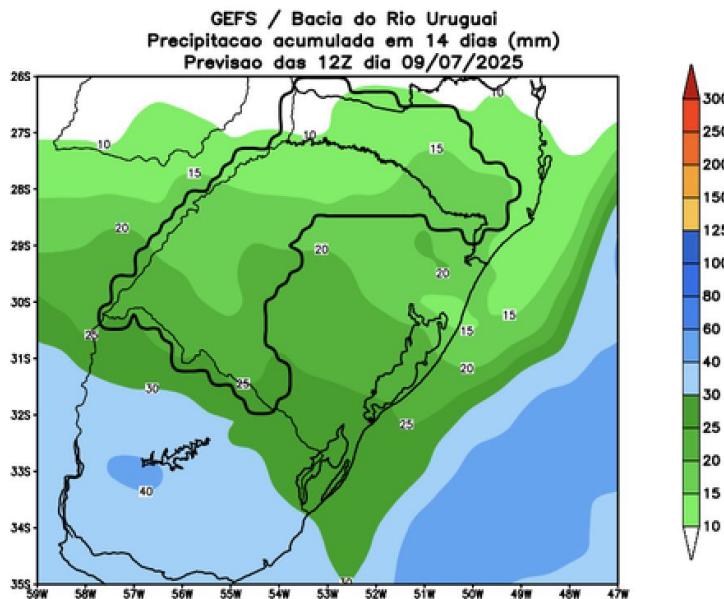
GEFS / Bacia do Rio Paranapanema
Precipitacao acumulada em 14 dias (mm)
Previsao das 12Z dia 09/07/2025



Previsão para as principais bacias



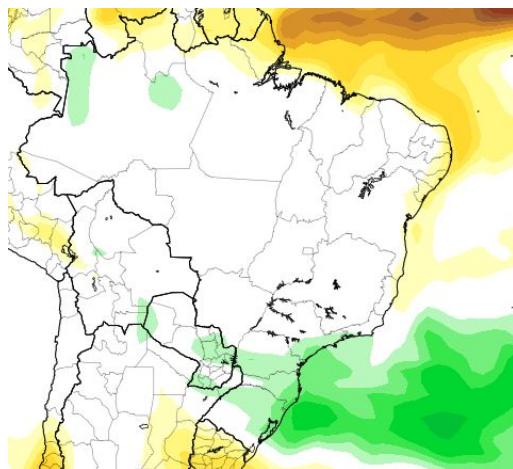
Previsão para as principais bacias



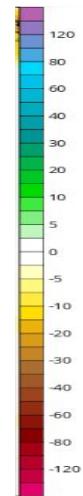
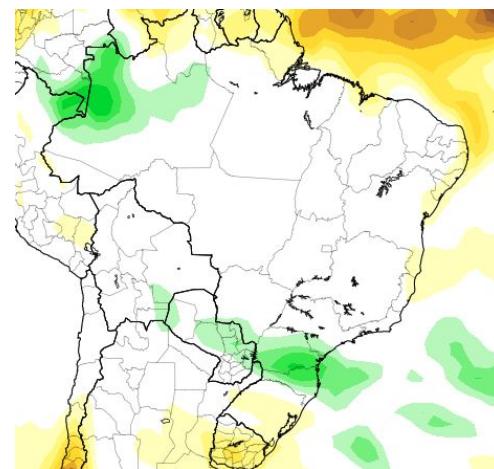
Anomalia de Chuva 3a e 4a semanas

Modelo
Americano
CFS/NOAA

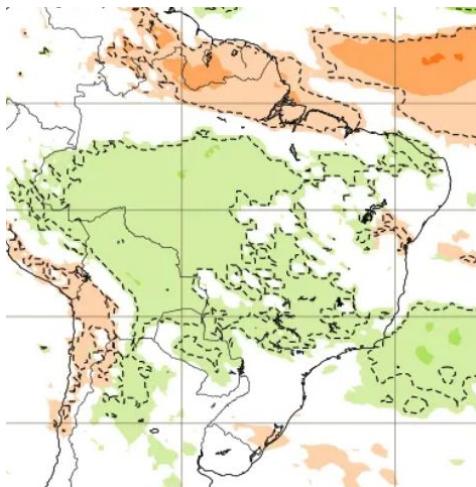
30-05 Agosto



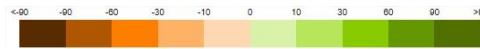
06 –12 Agosto



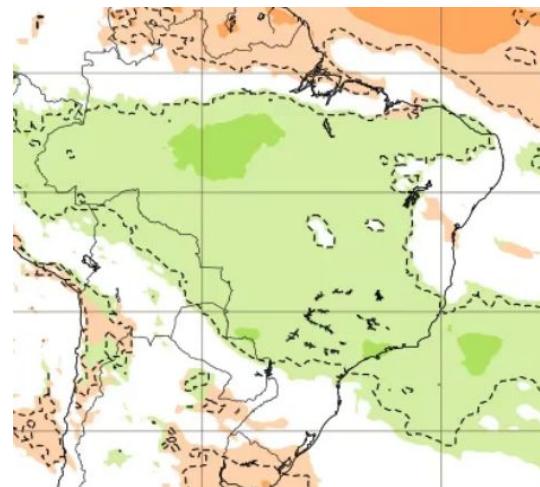
Modelo Europeu
ECMWF



28-03 Agosto



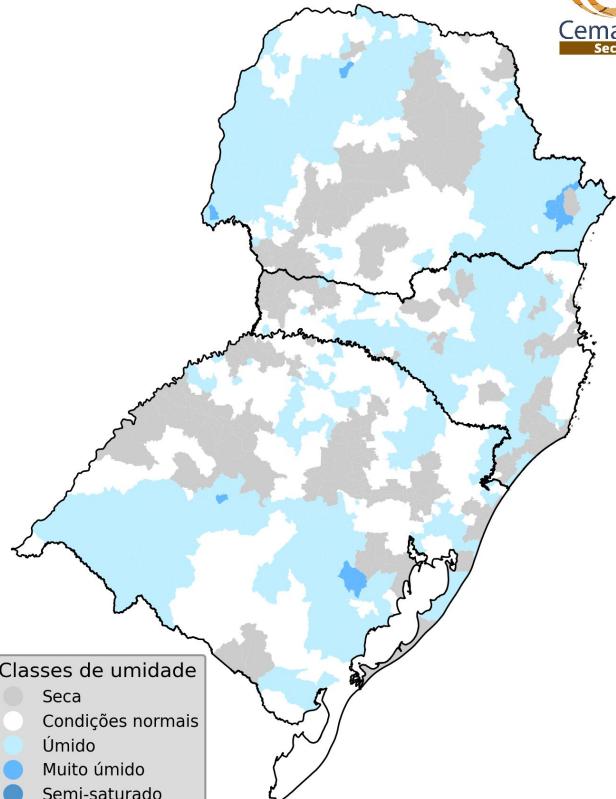
04 –10 Agosto



ÍNDICE AGREGADO DE RECURSOS DE ÁGUA (IARA)

JUNHO /25

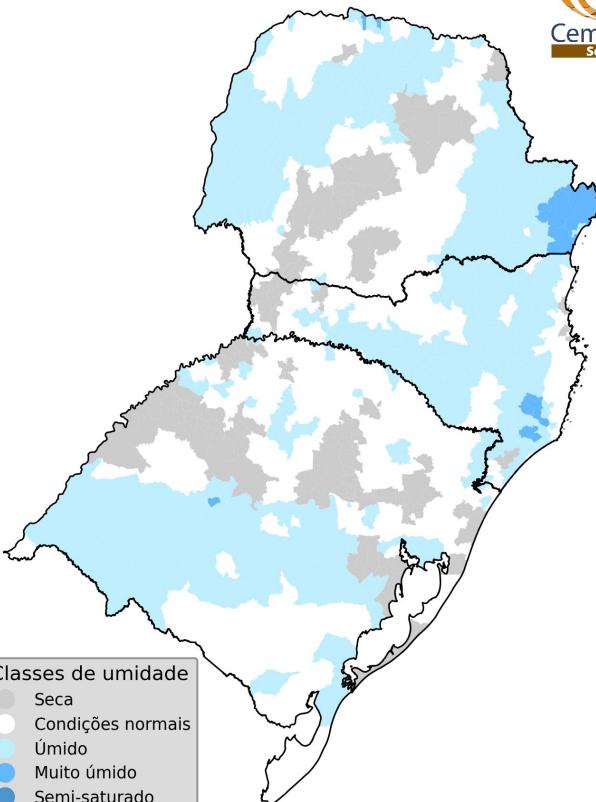
Índice Agregado de Recursos de Água (IARA)
June 2025



Número de municípios por classes de umidade:
 Seca: 338 (28.4%)
 Condições normais: 419 (35.2%)
 Úmido: 426 (35.8%)
 Muito úmido: 8 (0.7%)
 Semi-saturado: 0 (0.0%)
 Saturado: 0 (0.0%)

JULHO /25

Previsão do Índice Agregado de Recursos de Água (IARAp)
July 2025



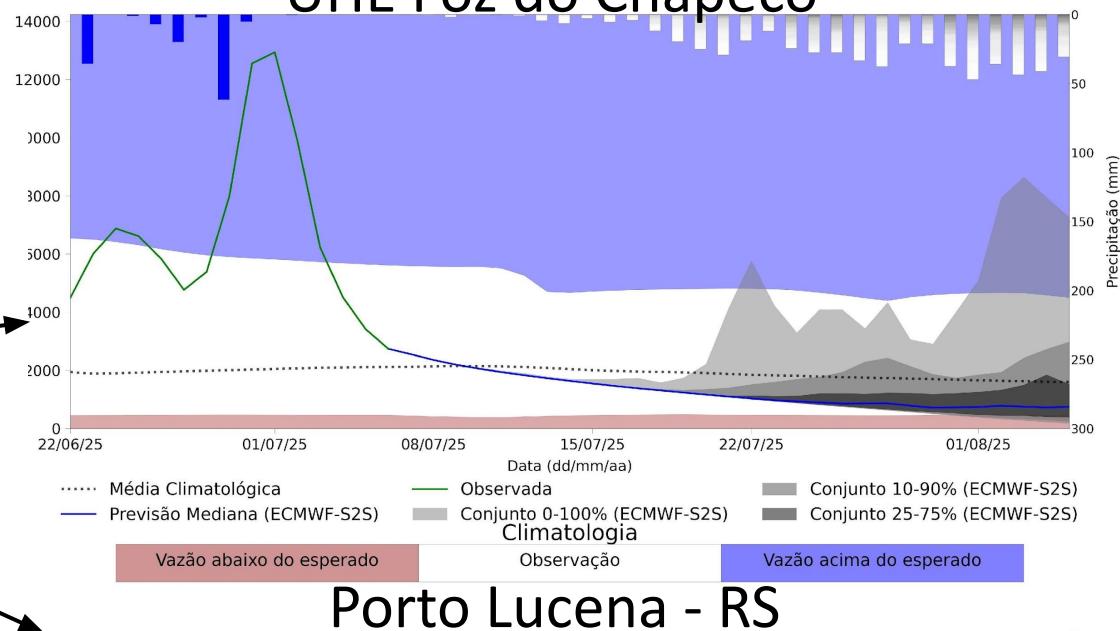
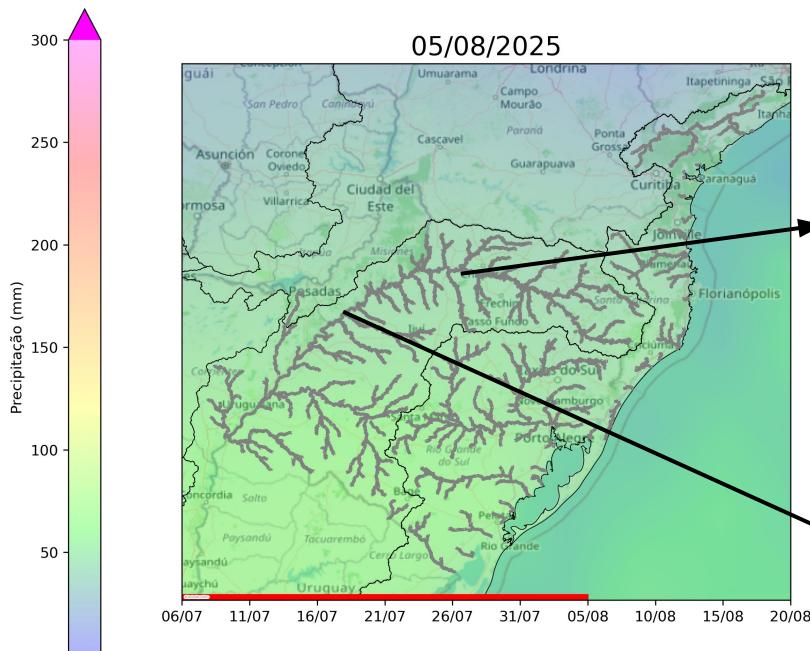
Número de municípios por classes de umidade:
 Seca: 239 (20.1%)
 Condições normais: 485 (40.7%)
 Úmido: 447 (37.5%)
 Muito úmido: 20 (1.7%)
 Semi-saturado: 0 (0.0%)
 Saturado: 0 (0.0%)

Previsão de vazão natural na Região Sul

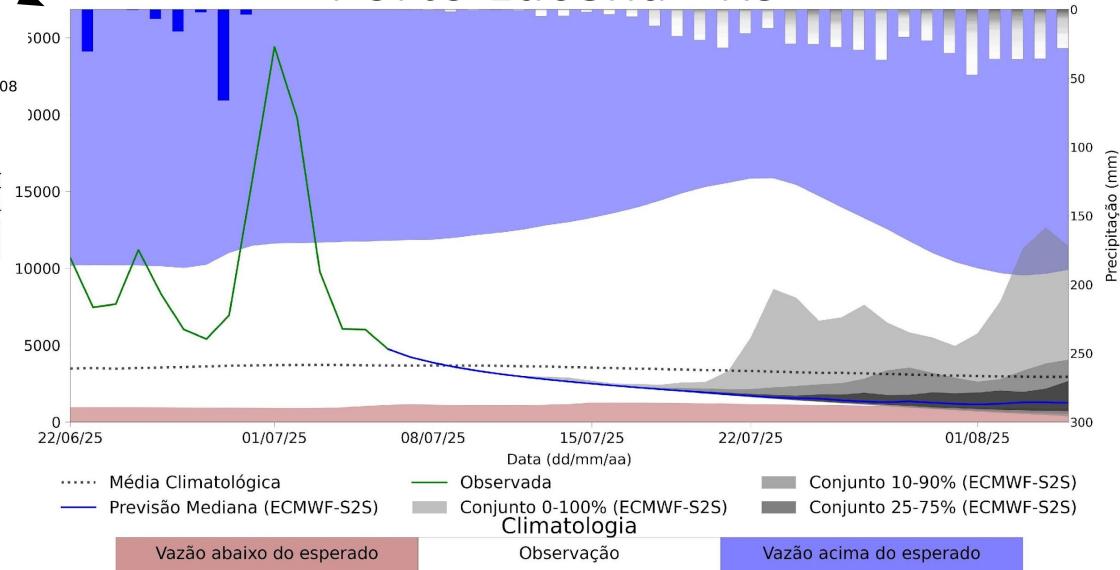
30 dias (Modelo hidrológico MHD)

UHE Foz do Chapecó

PREVISÃO: 06/07/25 a 05/08/25



Porto Lucena - RS



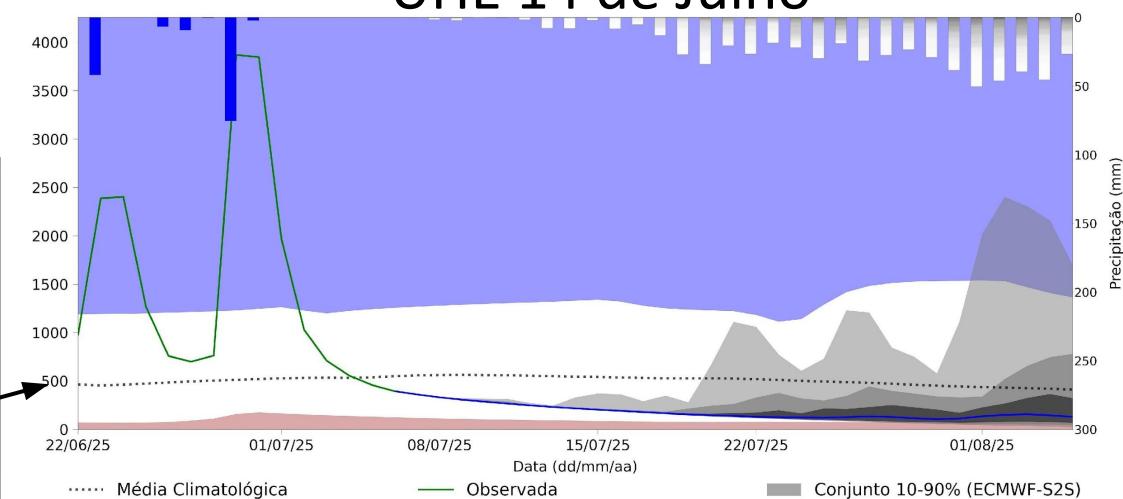
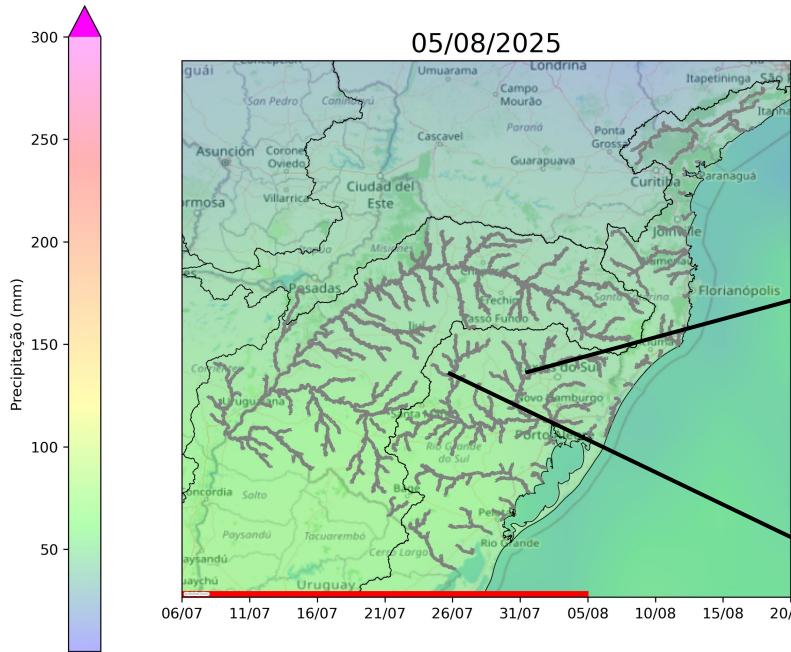
Fonte: Meteorologia (INMET/MERGE); Vazão (ANA/ONS)

MLT: 2003-2024

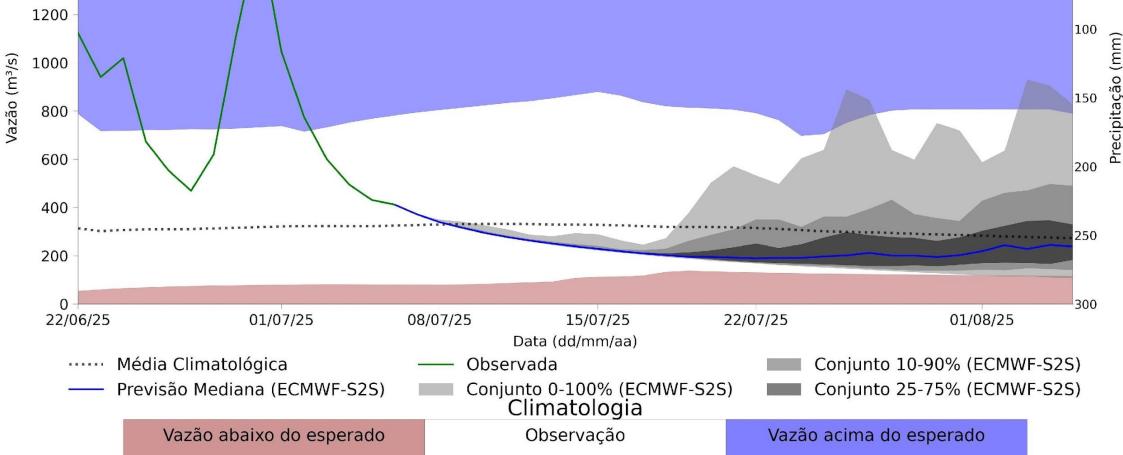
Previsão Meteorológica: ECMWF

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

PREVISÃO: 06/07/25 a 05/08/25

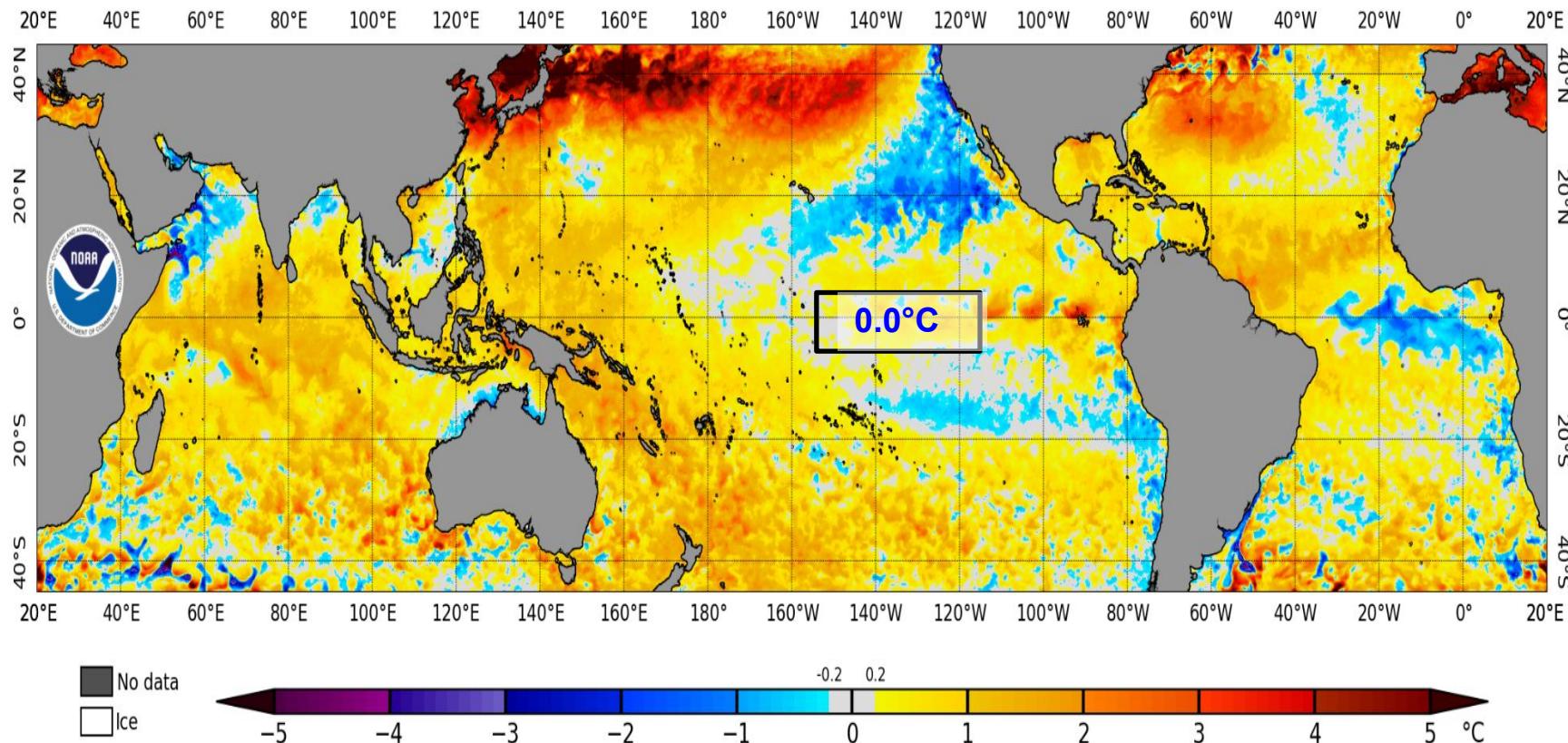


UHE Passo Real



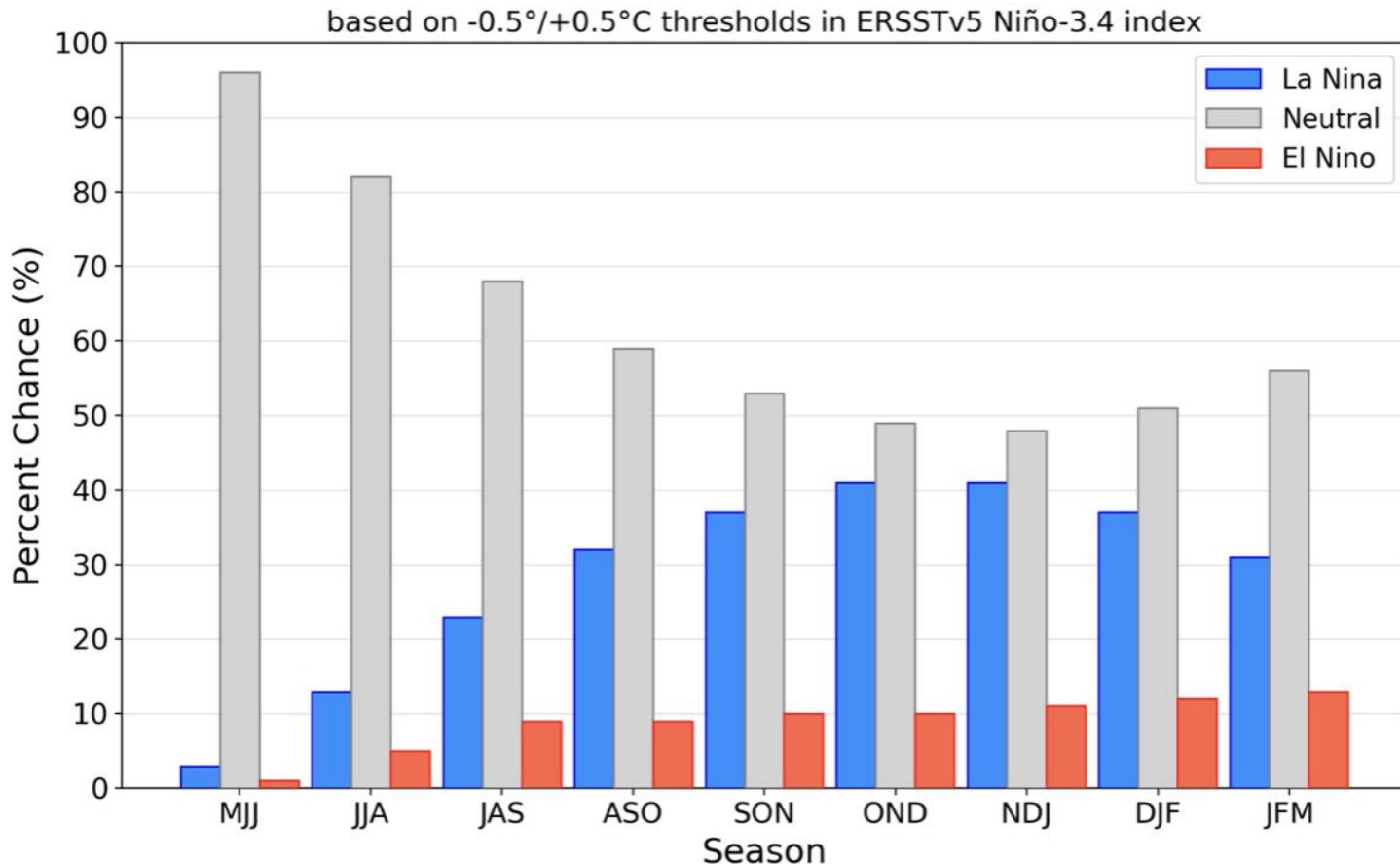
Status Atual: **Neutralidade**

NOAA Coral Reef Watch Daily 5km SST Anomalies (v3.1) 8 Jul 2025



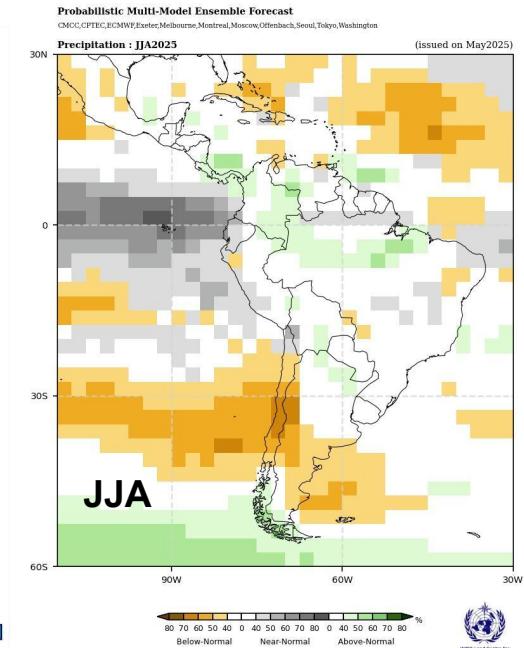
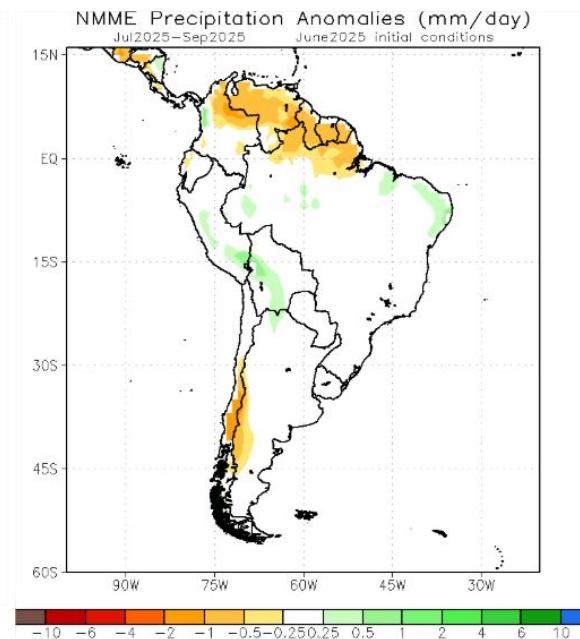
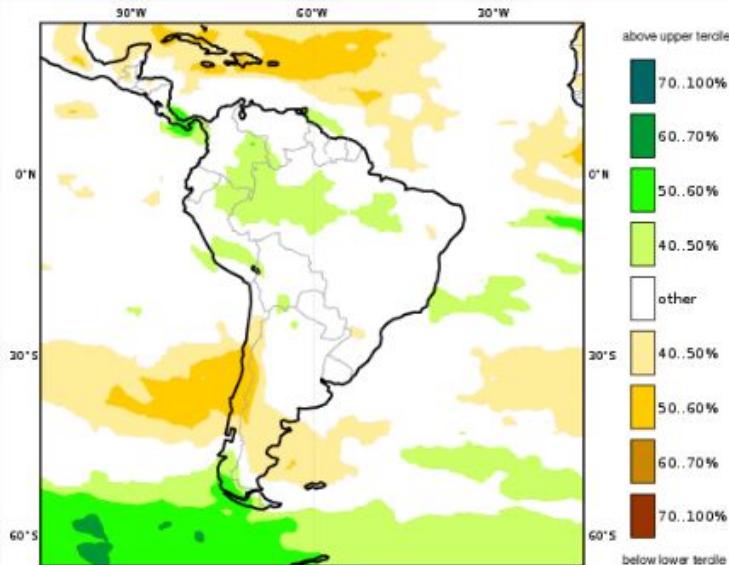
Previsão do “ENSO”

Official NOAA CPC ENSO Probabilities (issued June 2025)



Previsão Sazonal de Chuva Multi-Modelo

Julho-Agosto-Setembro



Modelos Europeus

Modelos Norte Americanos

Modelos da WMO