

# CEMADEN

Centro Nacional de Monitoramento e  
Alertas de Desastres Naturais



## Monitoramento e Previsões da situação hidrometeorológica na Região Sul

DEZEMBRO 2025

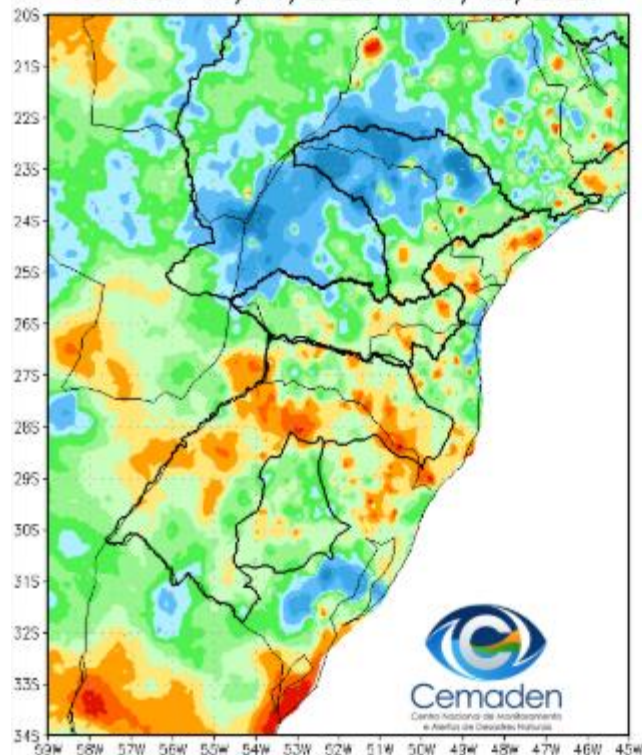


MINISTÉRIO DA  
CIÊNCIA, TECNOLOGIA  
E INOVAÇÃO

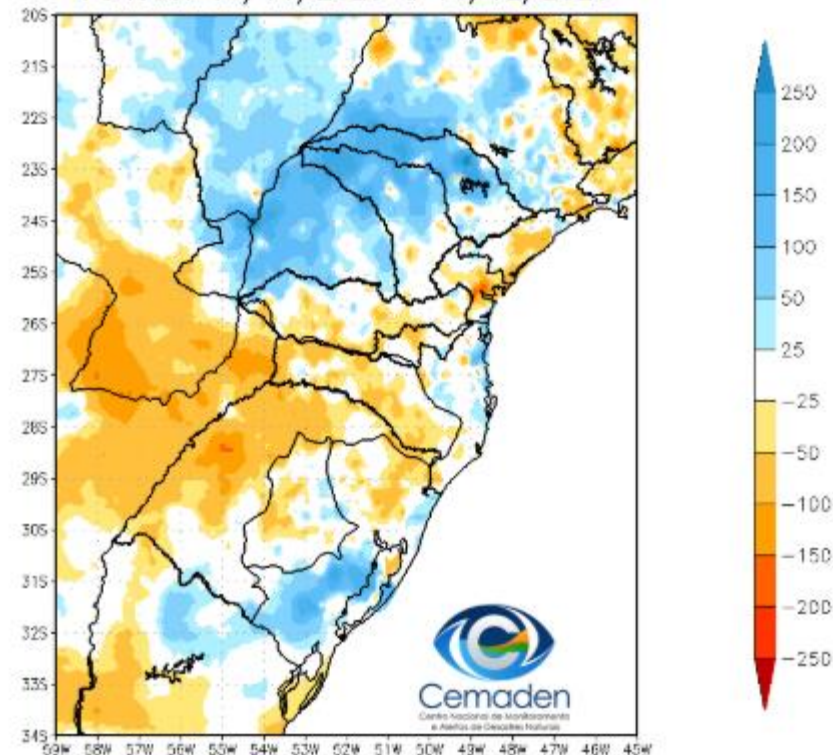


## Precipitação nos últimos 30 dias

Precipitação Acumulada (mm) A.S.  
Período: 16/11/2025 a 16/12/2025

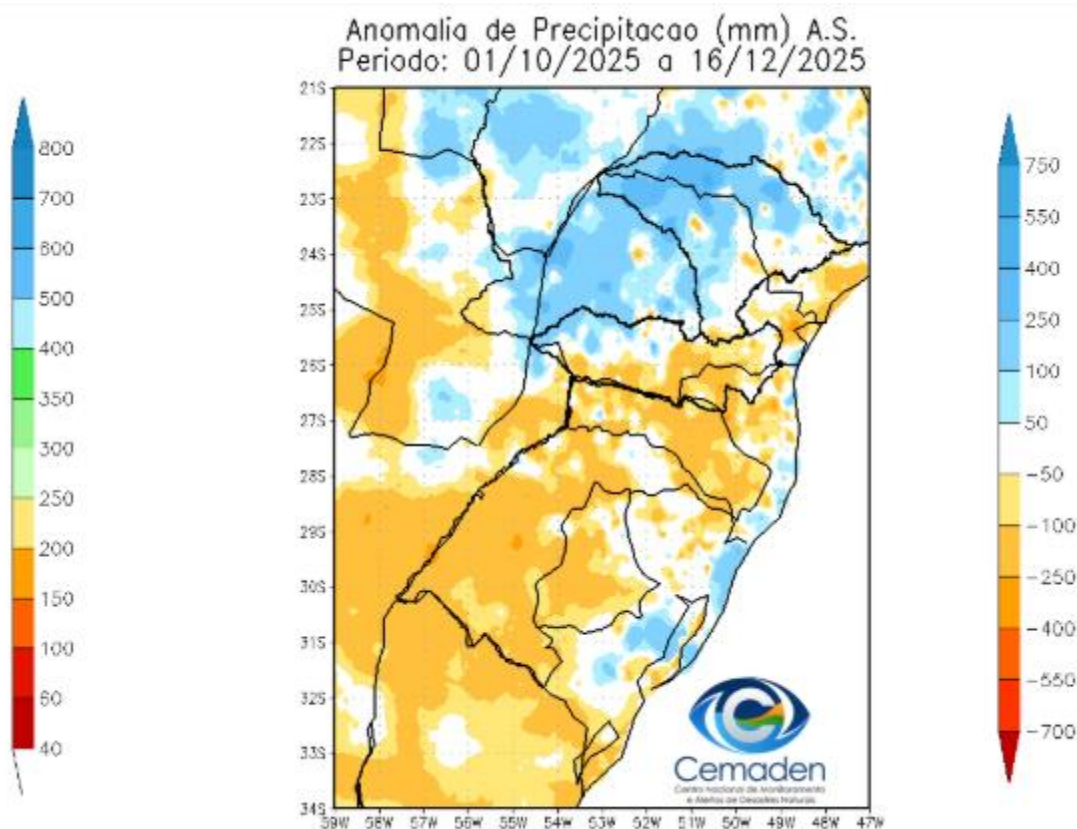
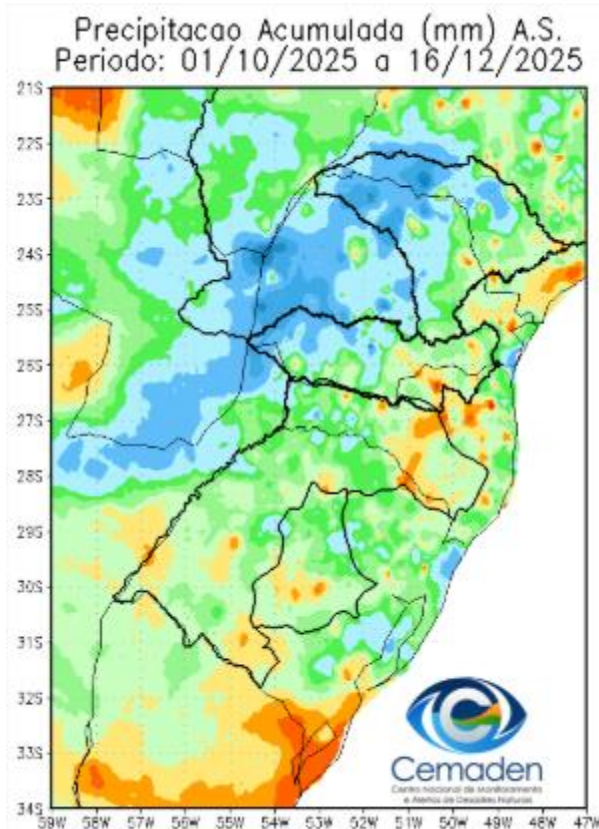


Anomalia de Precipitação (mm) A.S.  
Período: 16/11/2025 a 16/12/2025



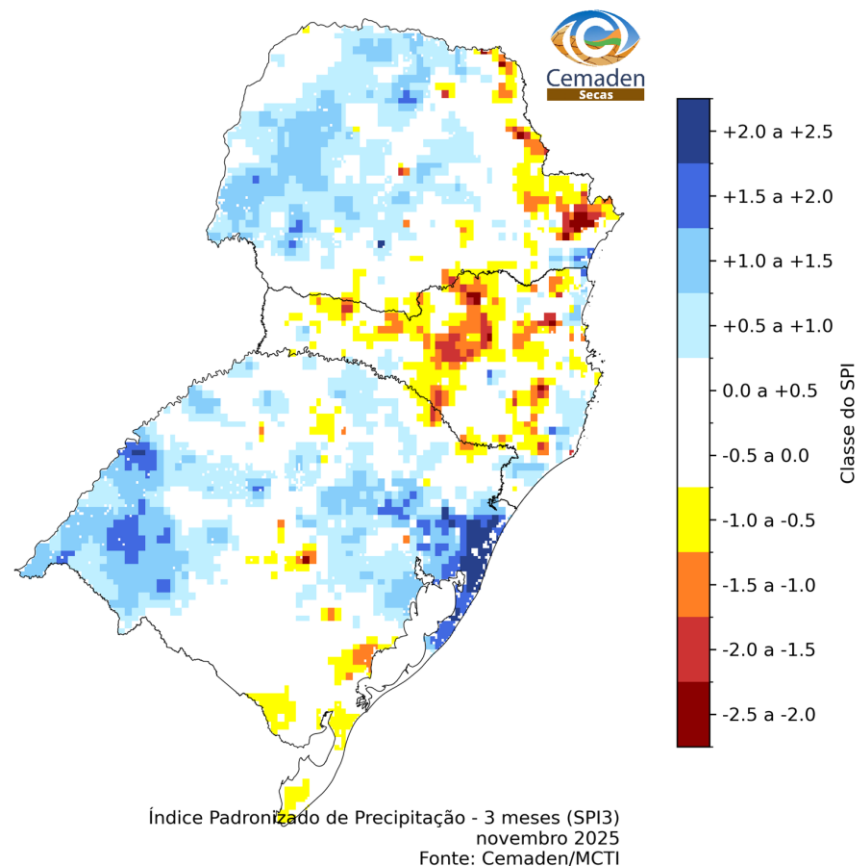


## Precipitação no Ano Hidrológico

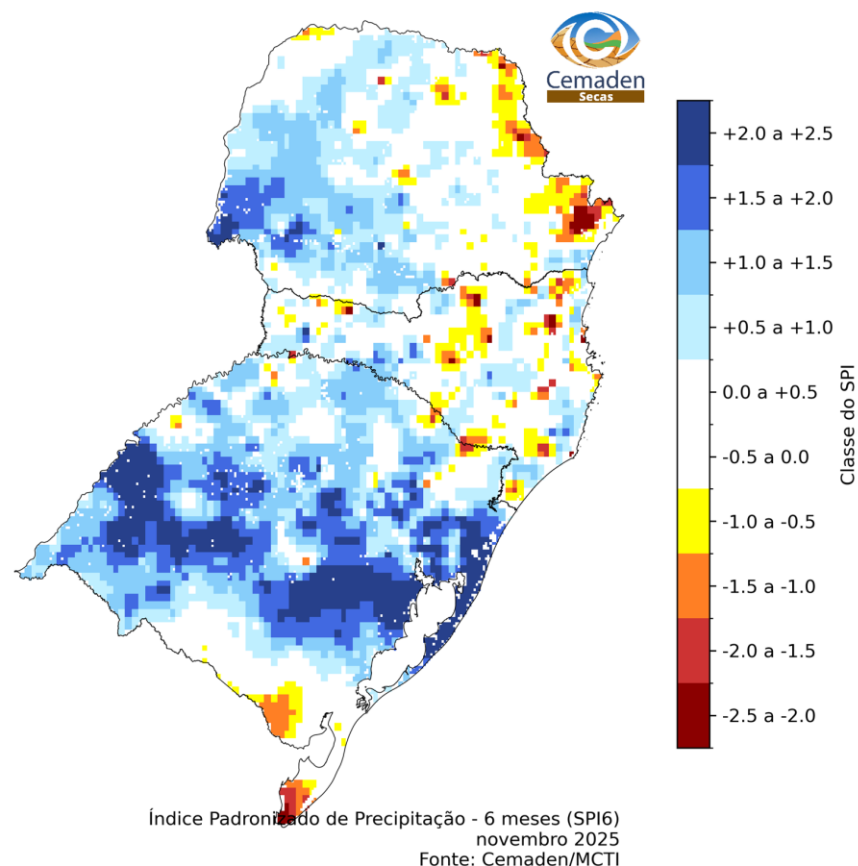


## SPI: NOVEMBRO 2025

### SPI-03



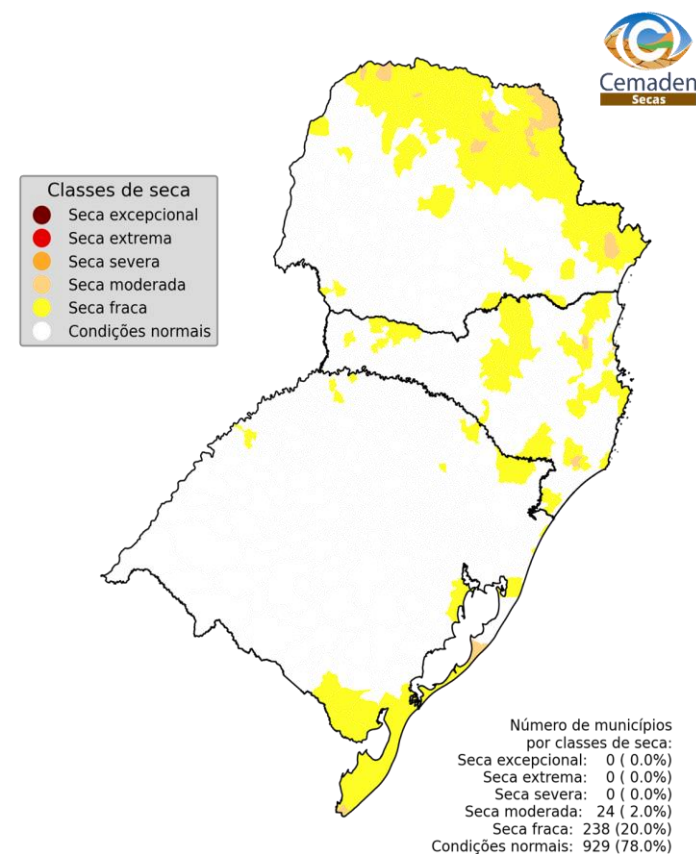
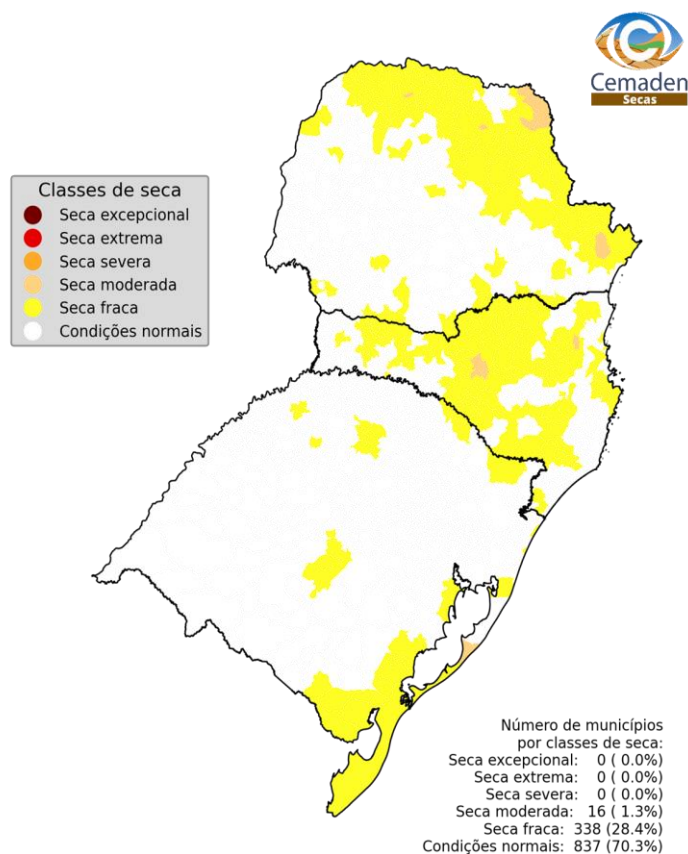
### SPI-06



## ÍNDICE INTEGRADO DE SECA: ANÁLISE POR MUNICÍPIOS

IIS-03  
OBSERVADO

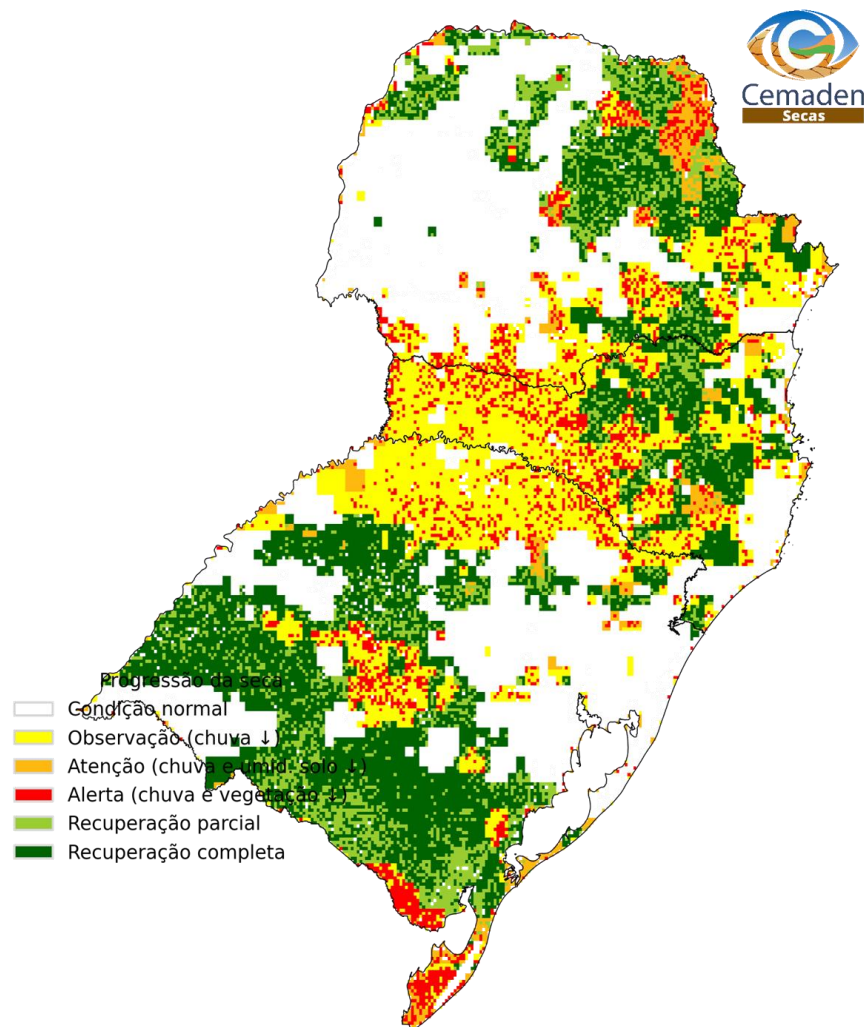
IIS-06  
OBSERVADO



Índice Integrado de Seca - 3 meses (IIS3)  
novembro 2025  
Fonte: Cemaden/MCTI

Índice Integrado de Seca - 6 meses (IIS6)  
novembro 2025  
Fonte: Cemaden/MCTI

## PROPAGAÇÃO INCREMENTAL DAS CONDIÇÕES DE SECA (PICS)



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

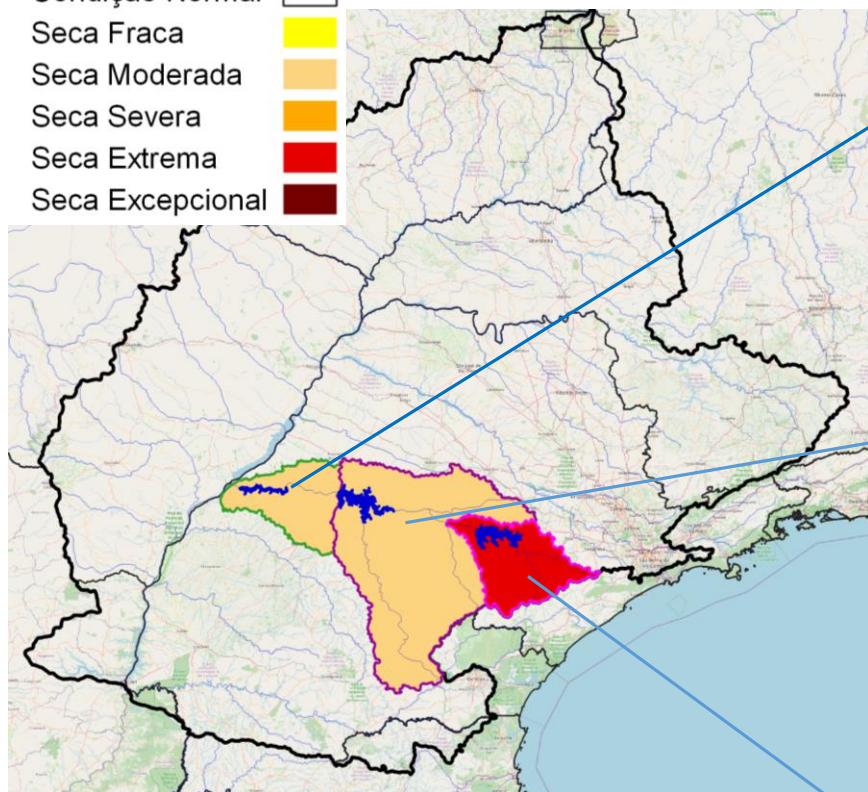




# BACIA DO RIO PARANAPANEMA





## Dez/25 - Parcial

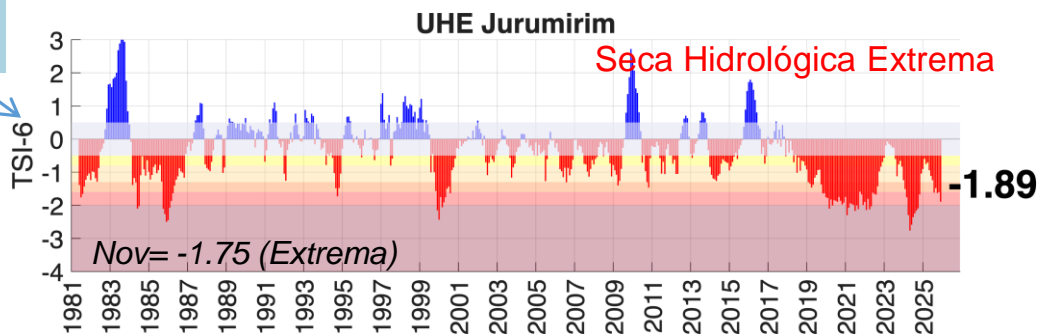
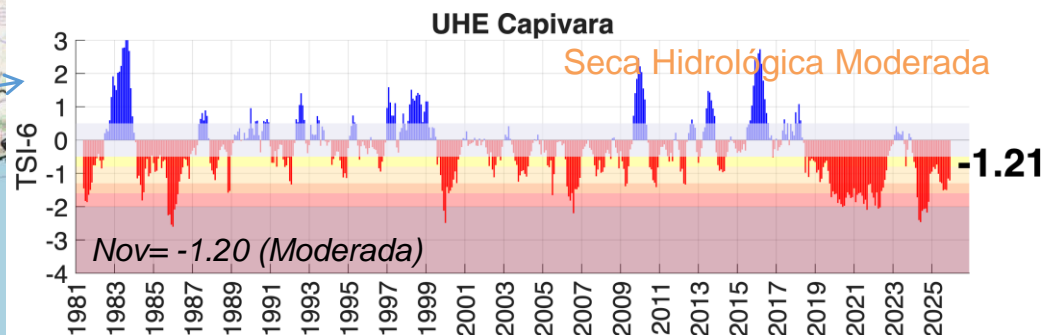
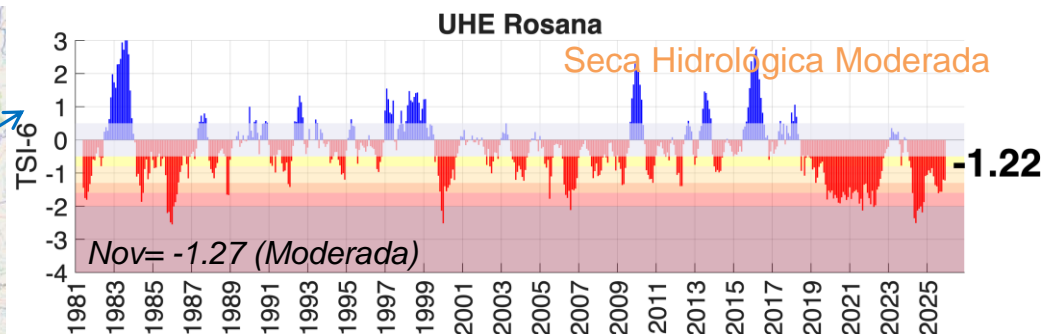
## Índice de Seca Bivariado (Chuva-Vazão) – TSI 6

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 



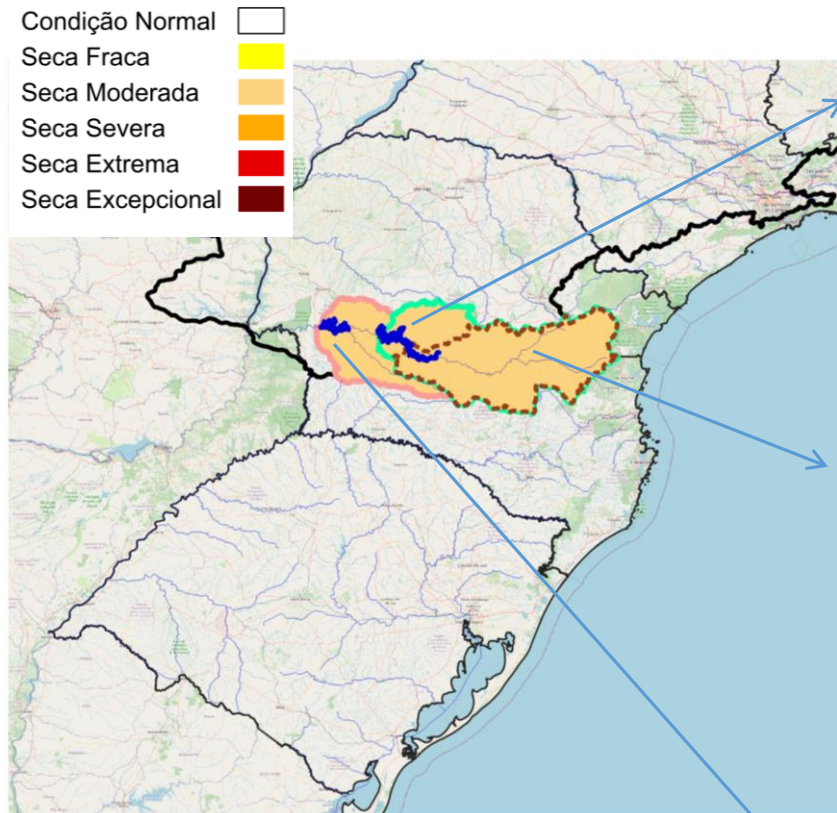
Fonte: CEMADEN/MCTI

Dados: Precipitação (CHIRPS) e Vazão (ONS e ANA) Período: Jan/1981 – Dez/2025

# BACIA DO RIO IGUAÇU

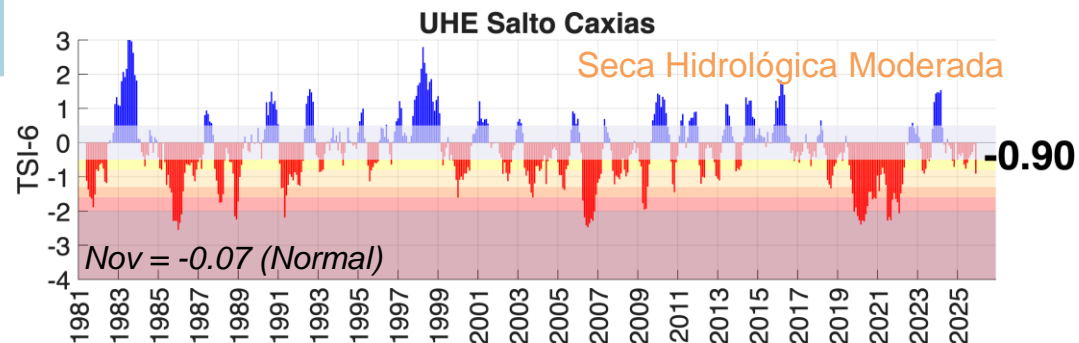
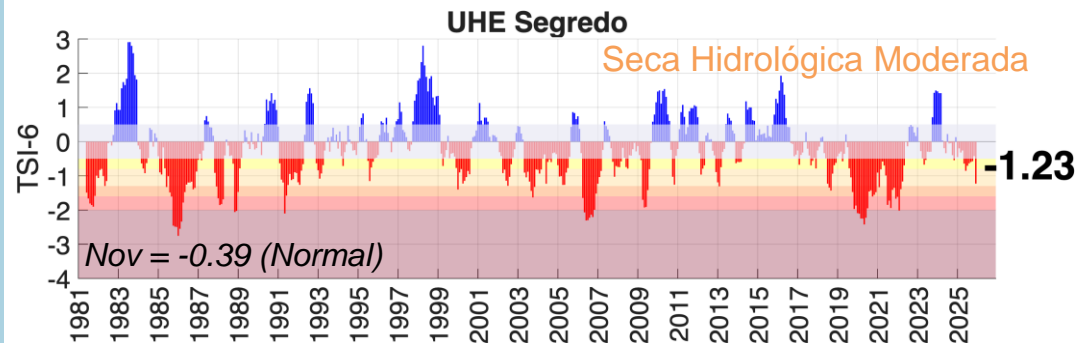
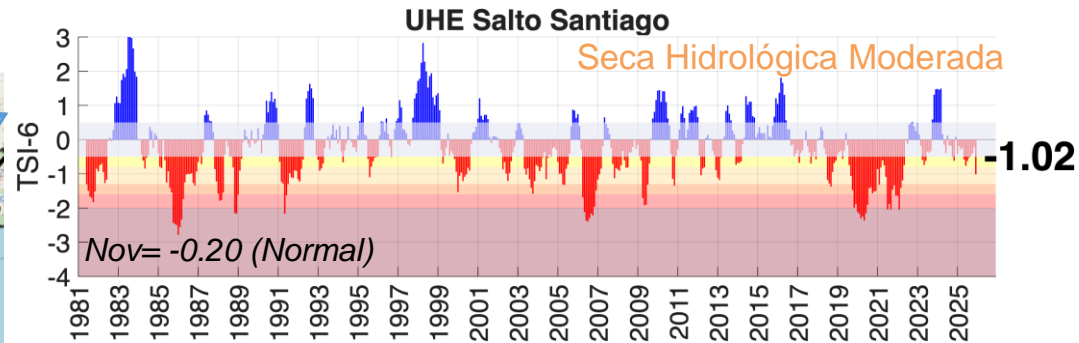
## Dez/25 - Parcial

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



Bacia UHE Segredo  
Bacia UHE Salto Santiago  
Bacia UHE Salto Caxias

Reservatórios  
Hidrografia



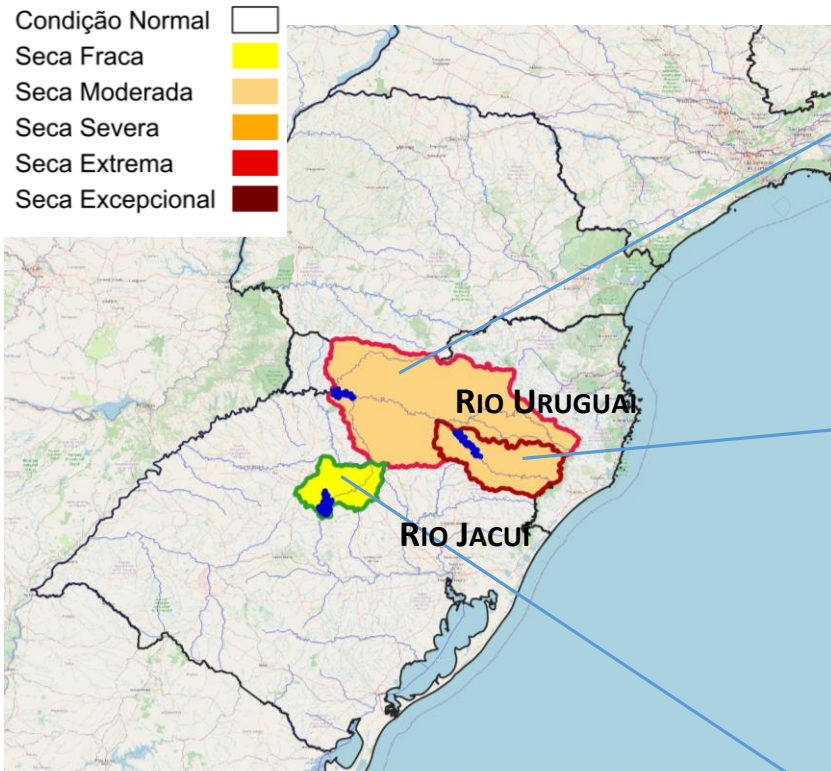
Fonte: CEMADEN/MCTI

Dados: Precipitação (CHIRPS) e Vazão (ONS e ANA) Período: Jan/1981 – Dez/2025



# BACIAS DOS RIOS URUGUAI E JACUÍ

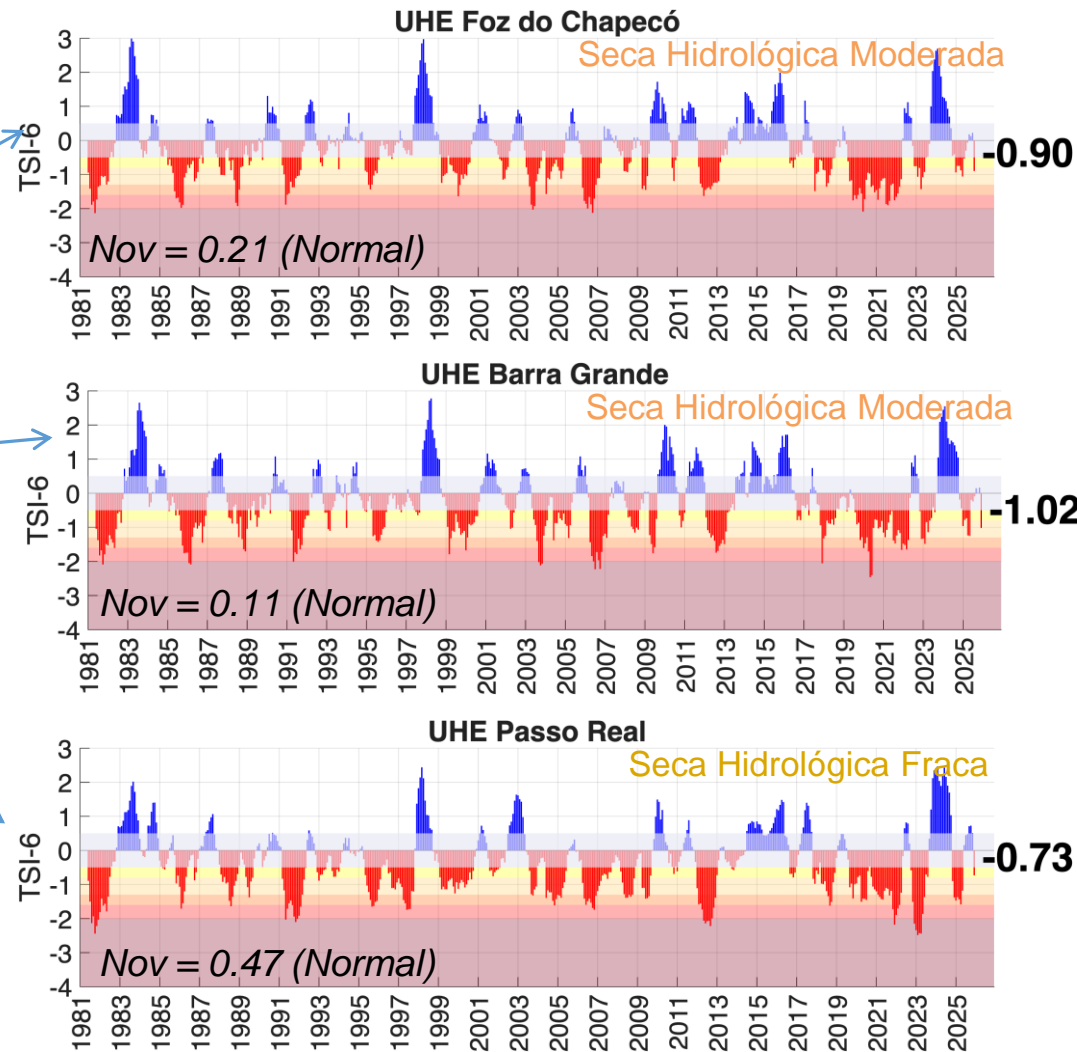
## Dez/25 - Parcial



Bacia UHE Passo Real  
Bacia UHE Barra Grande  
Bacia UHE Foz Chapecó

Reservatórios  
Hidrografia

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

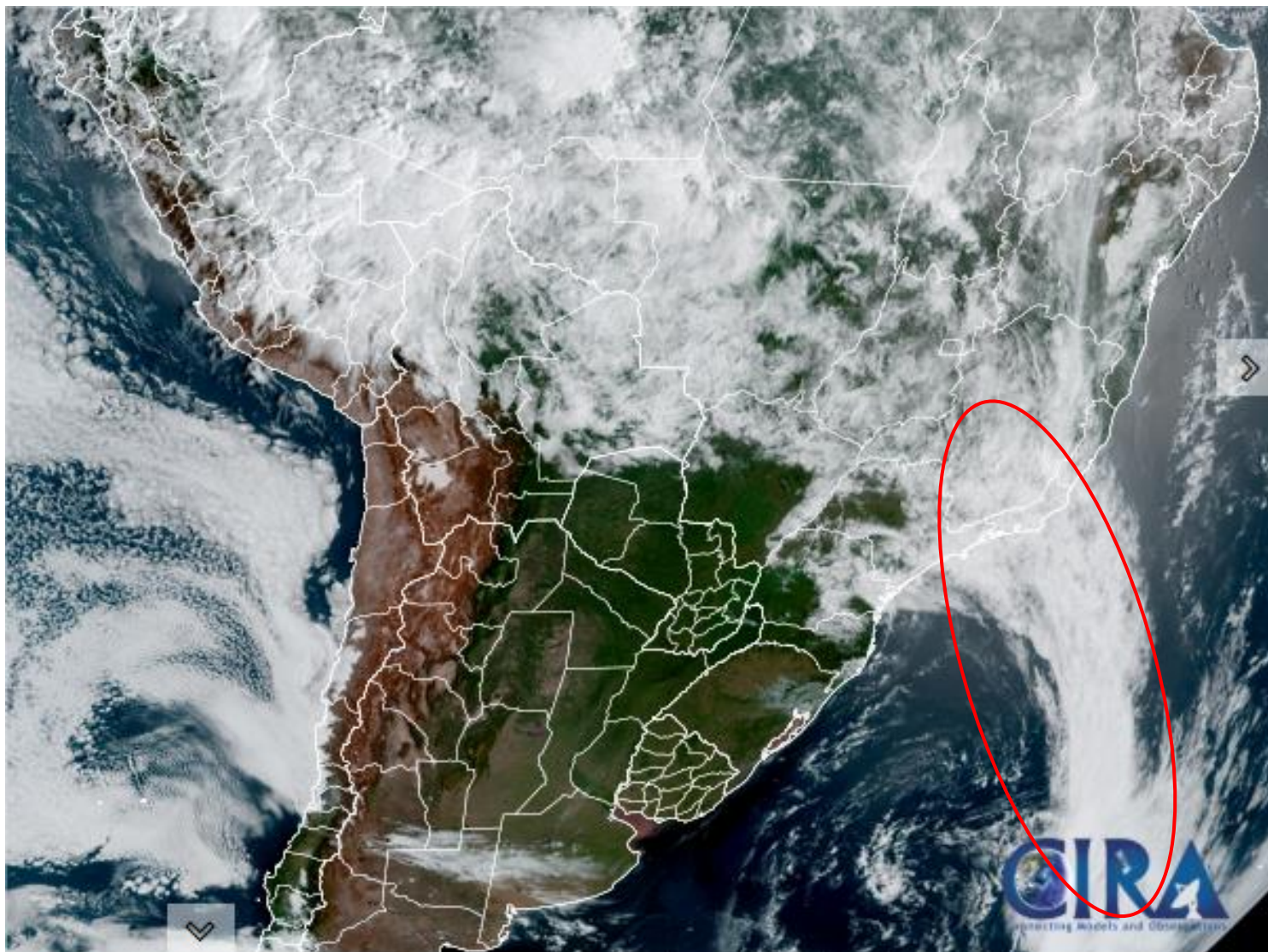


Fonte: CEMADEN/MCTI

Dados: Precipitação (CHIRPS) e Vazão (ONS e

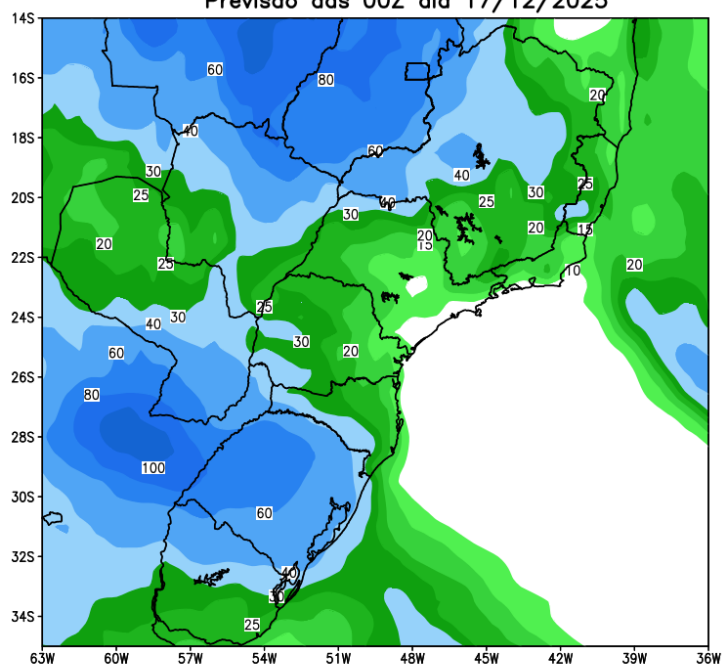
ANA) Período: Jan/1981 – Dez/2025

## Situação meteorológica atual

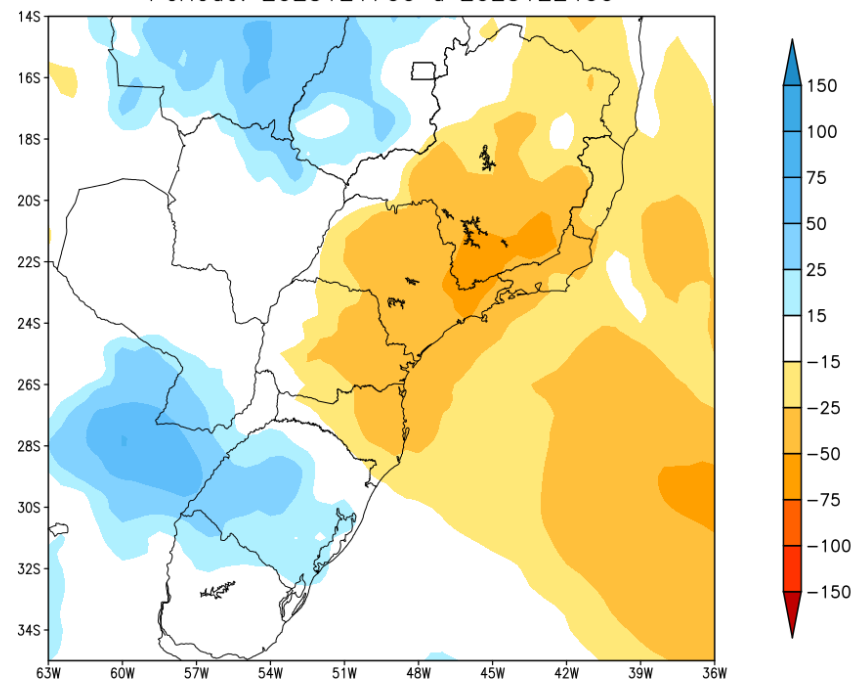


## Previsão de chuva próximos 7 dias

GEFS / BRASIL\_SUL  
Precipitação acumulada 1aSem (mm)  
Previsão das 00Z dia 17/12/2025



Anomalia de Precipitação BR\_SUL (mm)  
Período: 2025121700 a 2025122400

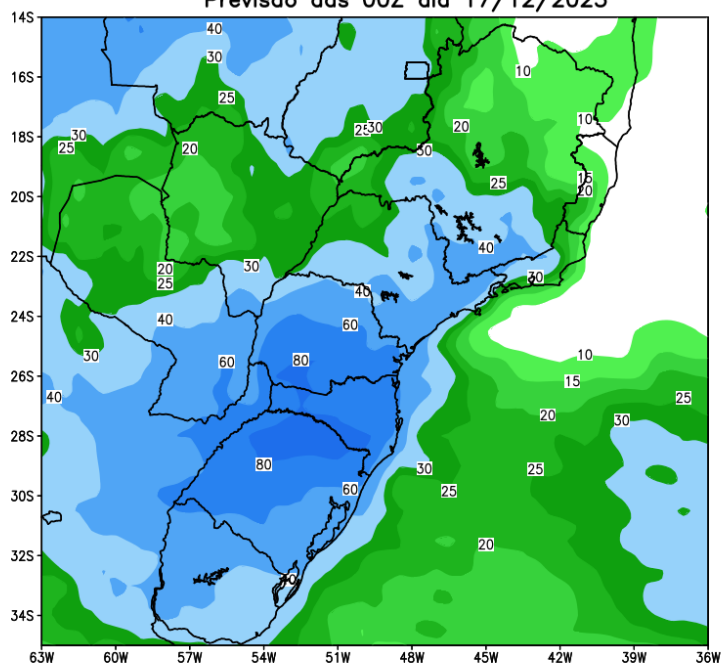


MODELO GEFS

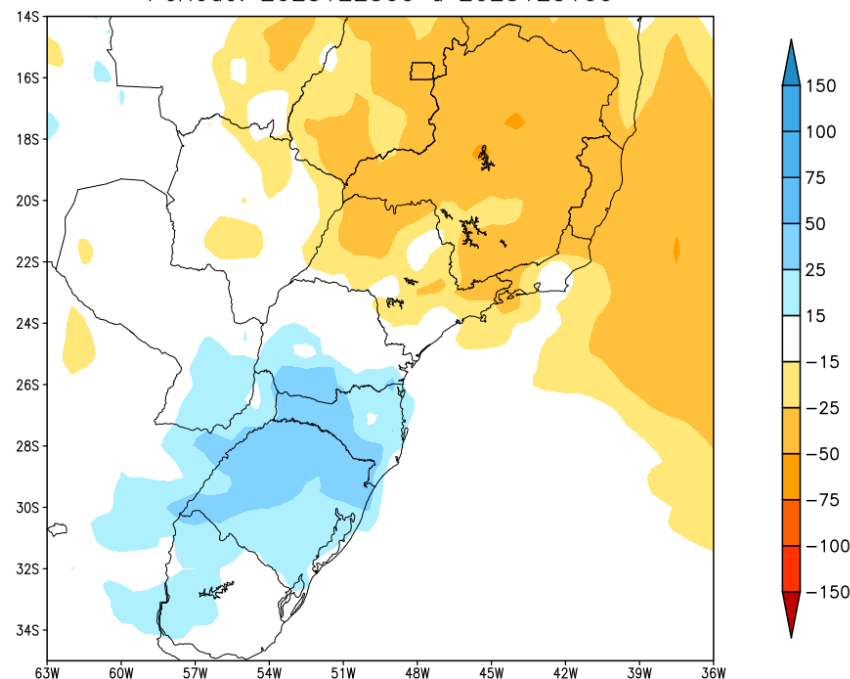


## Tendência para a segunda semana

GEFS / BRASIL\_SUL  
Precipitação acumulada 2aSem (mm)  
Previsão das 00Z dia 17/12/2025

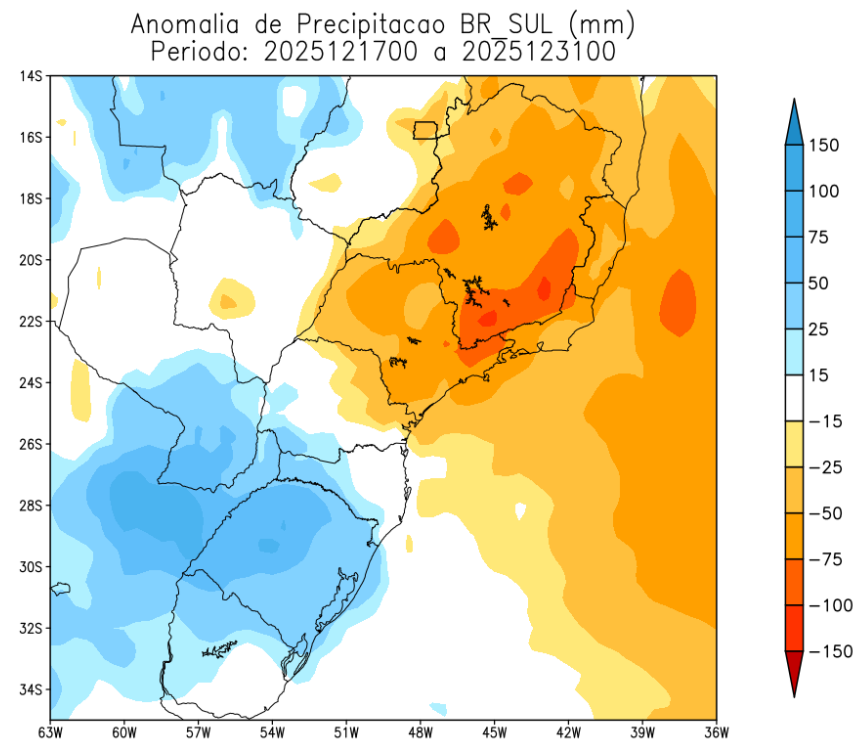
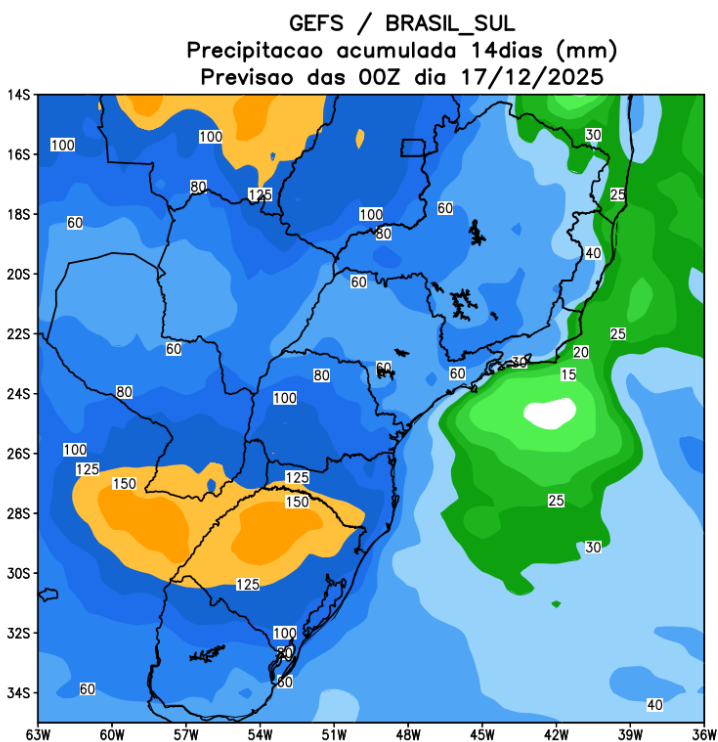


Anomalia de Precipitação BR\_SUL (mm)  
Período: 2025122500 a 2025123100



MODELO GEFS

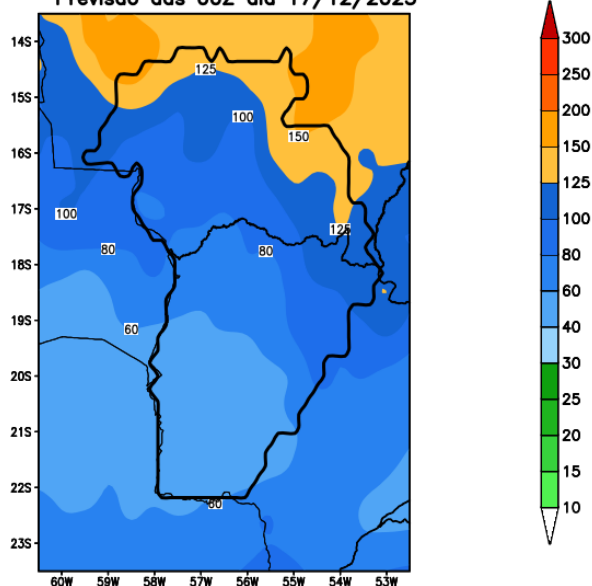
## Próximas duas semanas



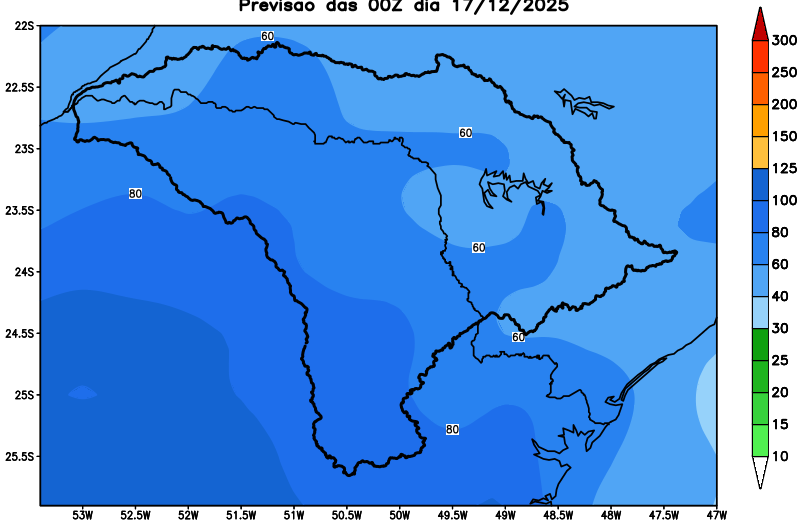
MODELO GEFS

# Previsão para as principais bacias

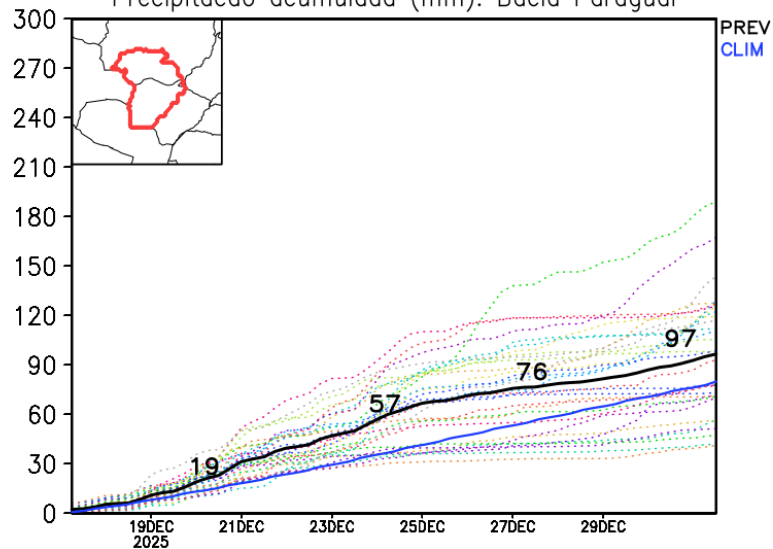
GEFS / Bacia do Rio Paraguai  
Precipitação acumulada em 15 dias (mm)  
Previsão das 00Z dia 17/12/2025



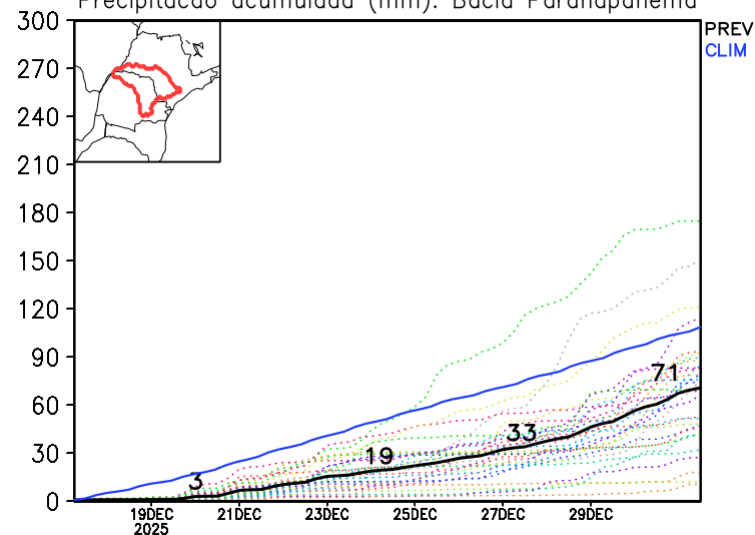
GEFS / Bacia do Rio Paranapanema  
Precipitação acumulada em 14 dias (mm)  
Previsão das 00Z dia 17/12/2025



Precipitação acumulada (mm): Bacia Paraguai



Precipitação acumulada (mm): Bacia Paranapanema

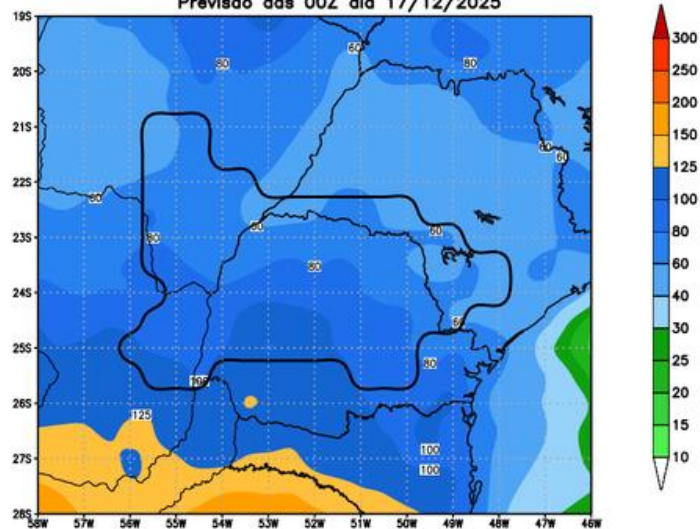


MODELO GEFS

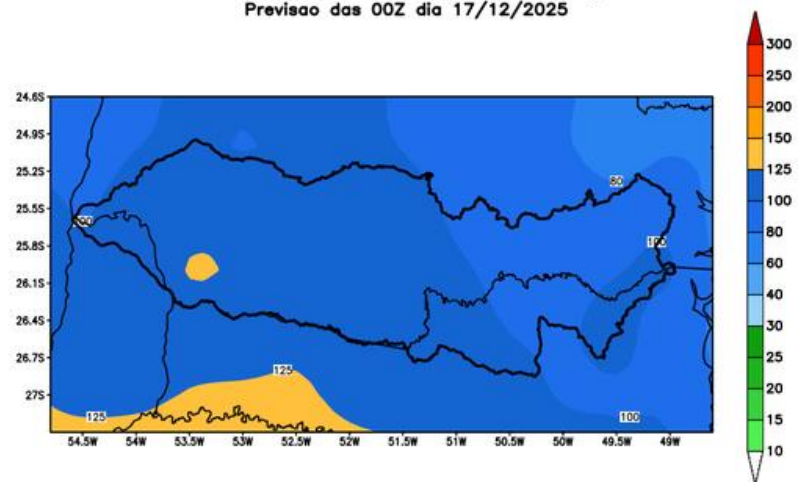


# Previsão para as principais bacias

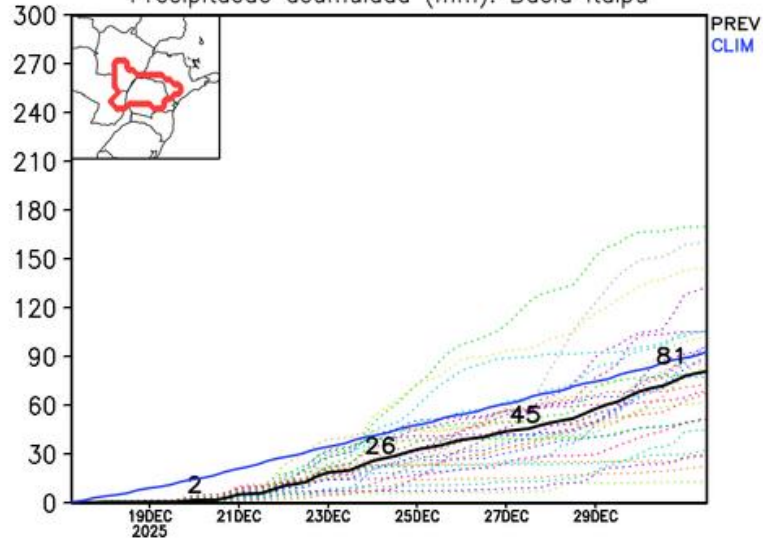
GEFS / Itaipu  
Precipitação acumulada em 14 dias (mm)  
Previsão das 00Z dia 17/12/2025



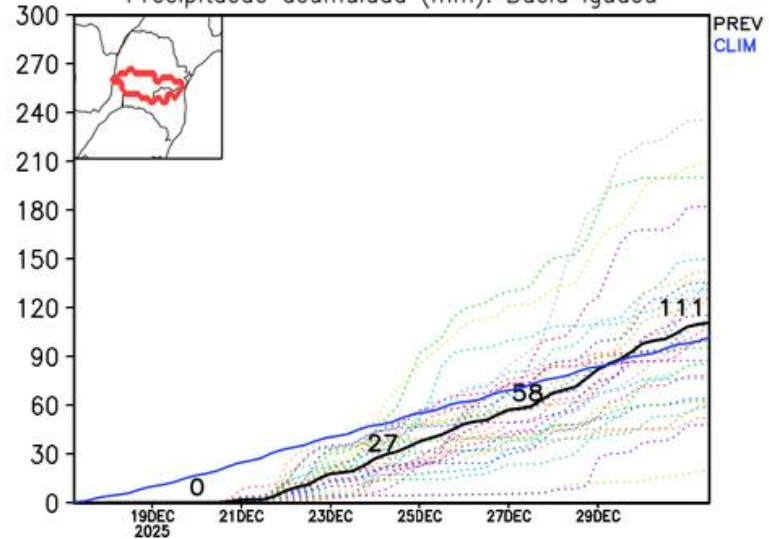
GEFS / Bacia do Rio Iguacu  
Precipitação acumulada em 14 dias (mm)  
Previsão das 00Z dia 17/12/2025



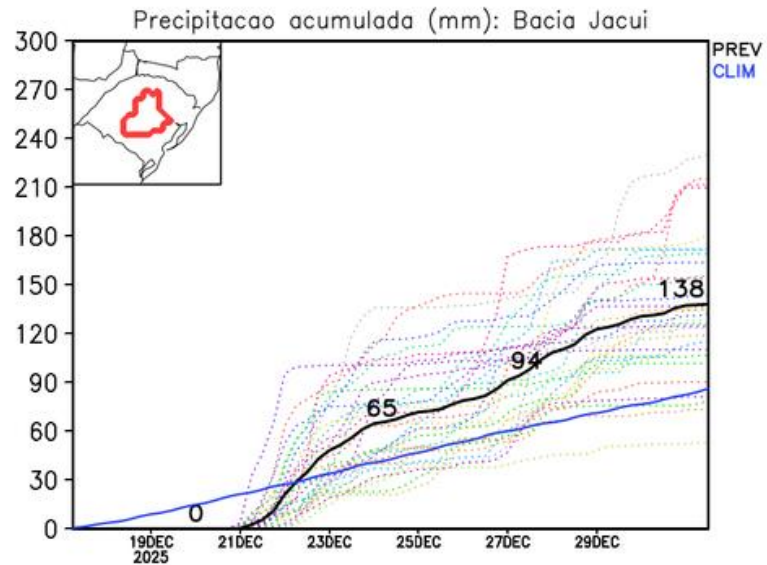
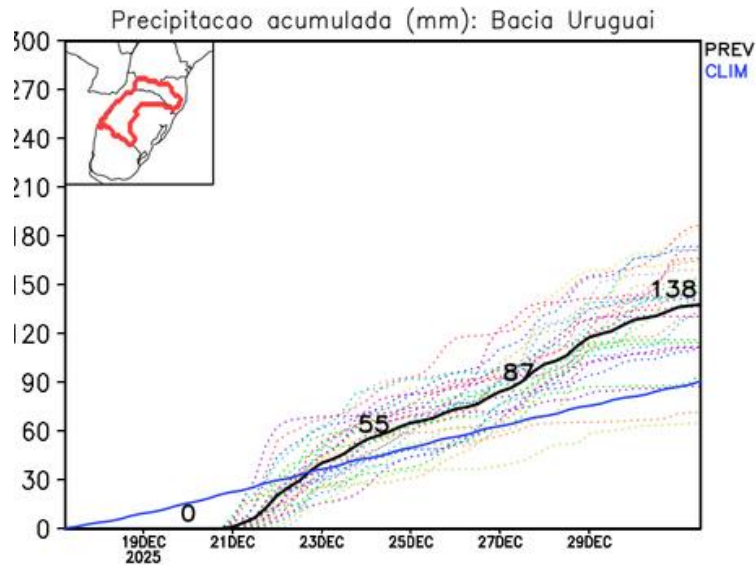
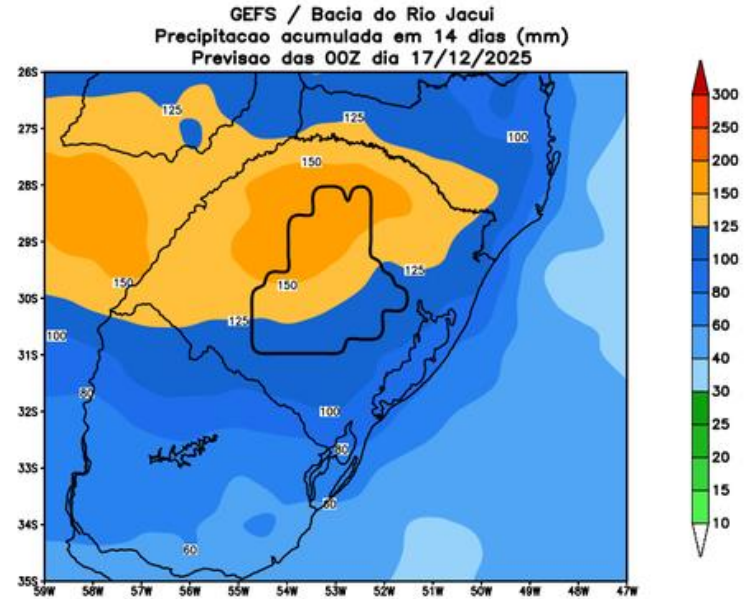
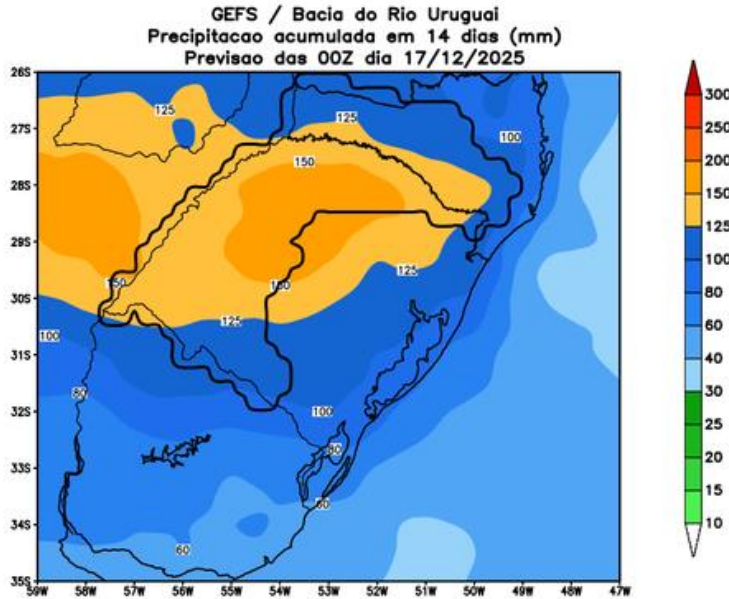
Precipitação acumulada (mm): Bacia Itaipu



Precipitação acumulada (mm): Bacia Iguacu



# Previsão para as principais bacias



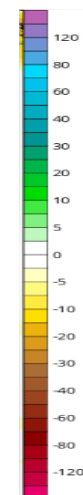
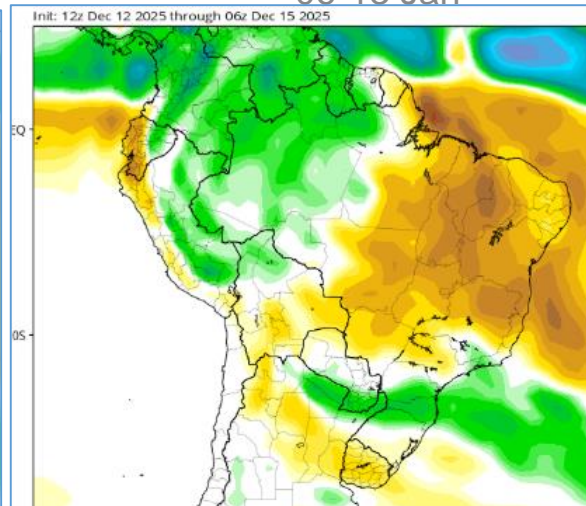
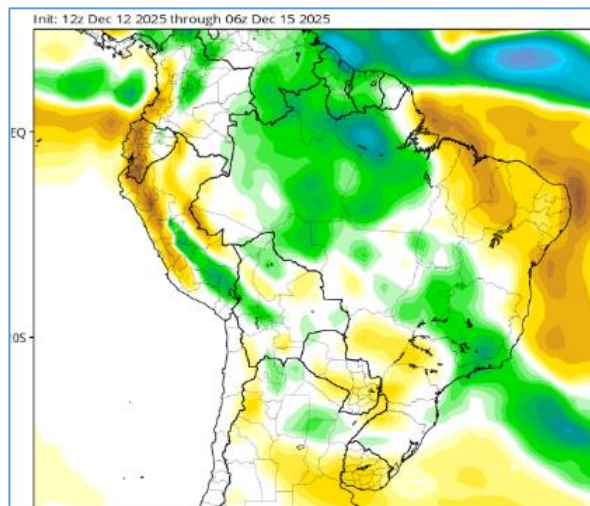


# Anomalia de Chuva 3a e 4a semanas

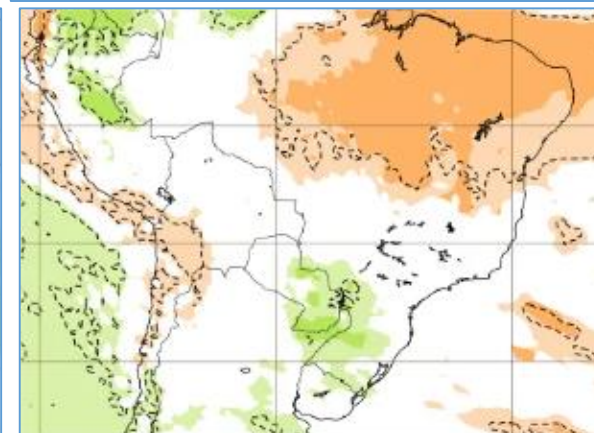
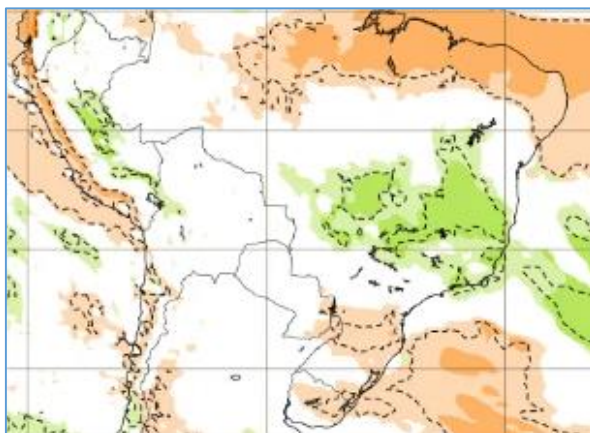
29 Dez – 06 Jan

06-13 Jan

Modelo  
Americano  
CFS/NOAA

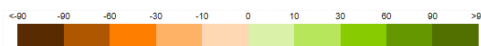


Modelo Europeu  
ECMWF



29 Dez – 06 Jan

06-13 Jan





# Previsão Sub-sazonal (45 dias) para a Região Sul (Sistema Global de Previsão de Vazão - GloFAS)

Previsão: 22/12/2025 – 16/01/2026



22/12/2025-28/12/2025

29/12/2025-04/01/2026

05/01/2026-11/01/2026

12/01/2026-18/01/2026

19/01/2026-26/01/2026

 Região Sul  
 Bacias Hidrográficas

**Categoria de anomalia de vazões (percentil)**

**Categoria de incerteza**

Baixa (0-10) Média (10-20) Alta (<20)

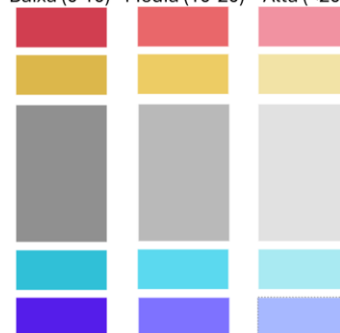
Muito abaixo (1-10)

Abaixo (10-25)

Média (25-75)

Acima (75-90)

Muito acima (90-100)



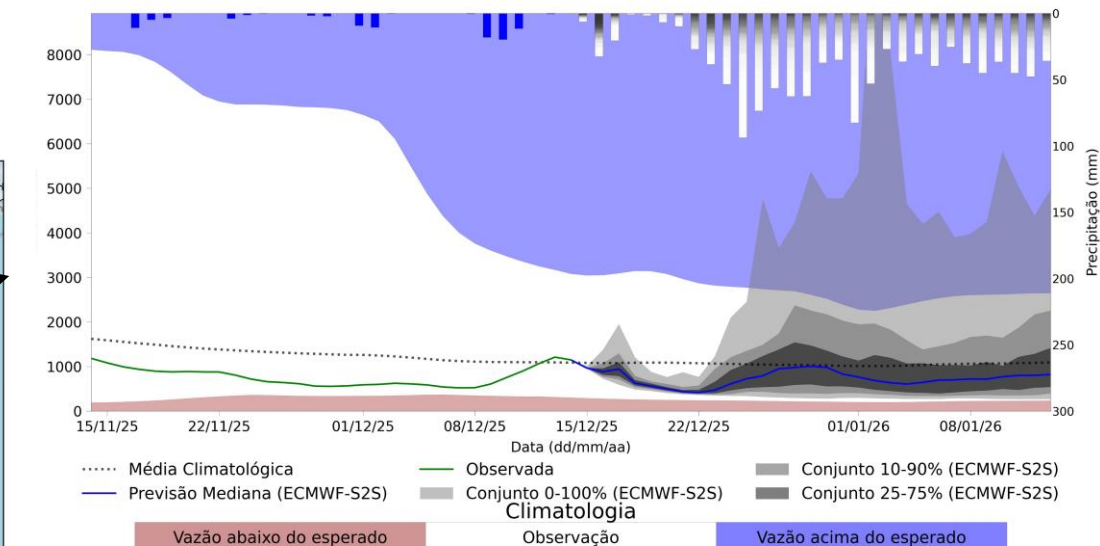
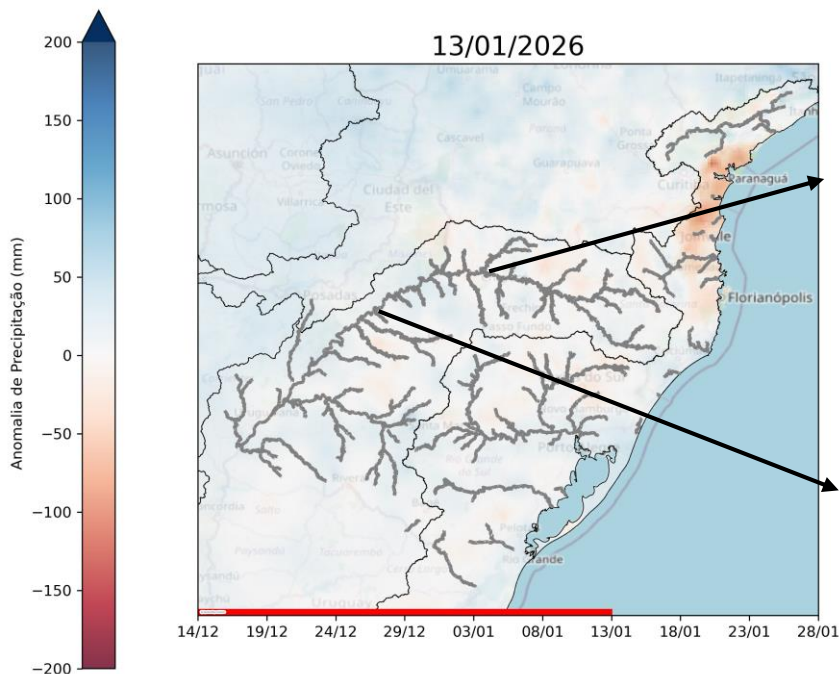
Fonte: Previsão Meteorológica: ECMWF  
Previsão de vazão: Lisflood/GloFAS Forecast  
<https://www.globalfloods.eu/glofas-forecasting/>



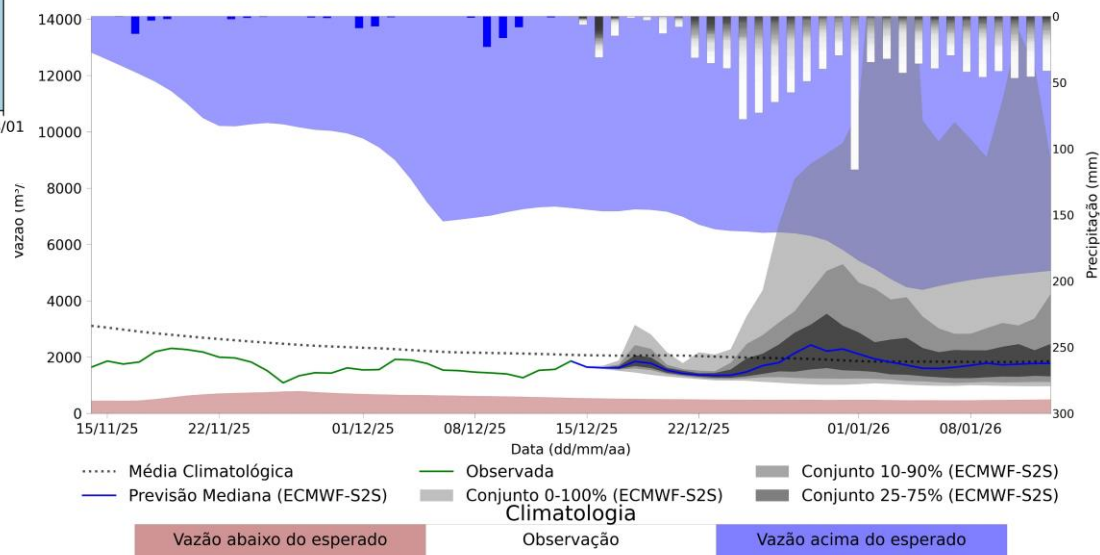
## Previsão de vazão natural na Região Sul

### UHE Foz do Chapecó

**PREVISÃO: 14/12/25 a 13/01/26**



### Porto Lucena - RS



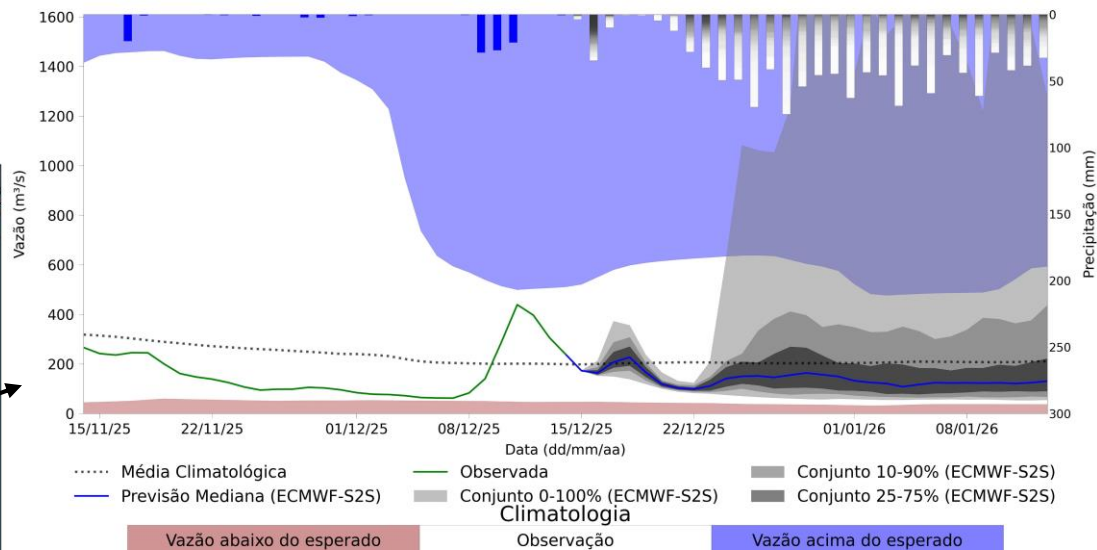
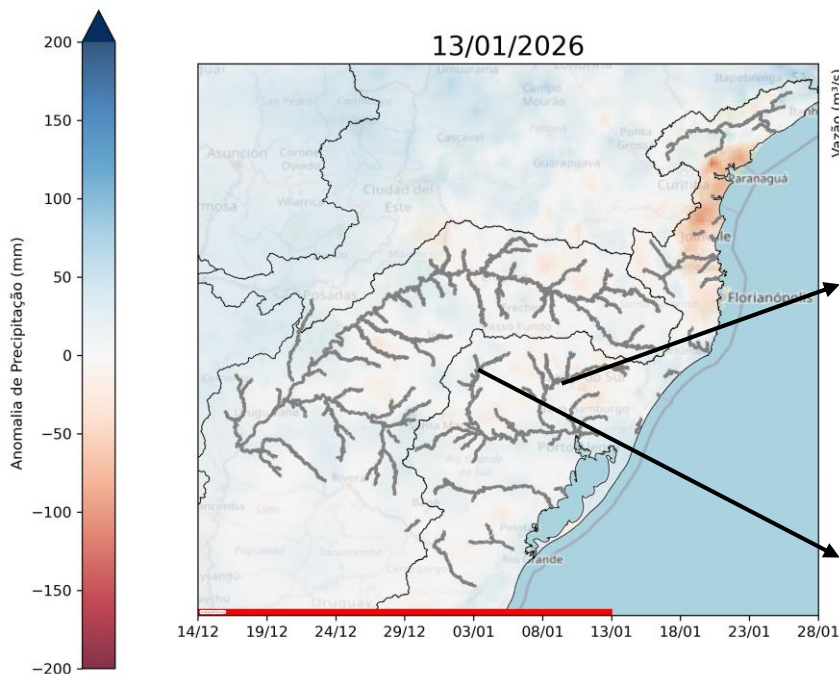
Fonte: Meteorologia (INMET/MERGE);  
Vazão (ANA/ONS)  
MLT: 2003-2024  
Previsão Meteorológica: ECMWF



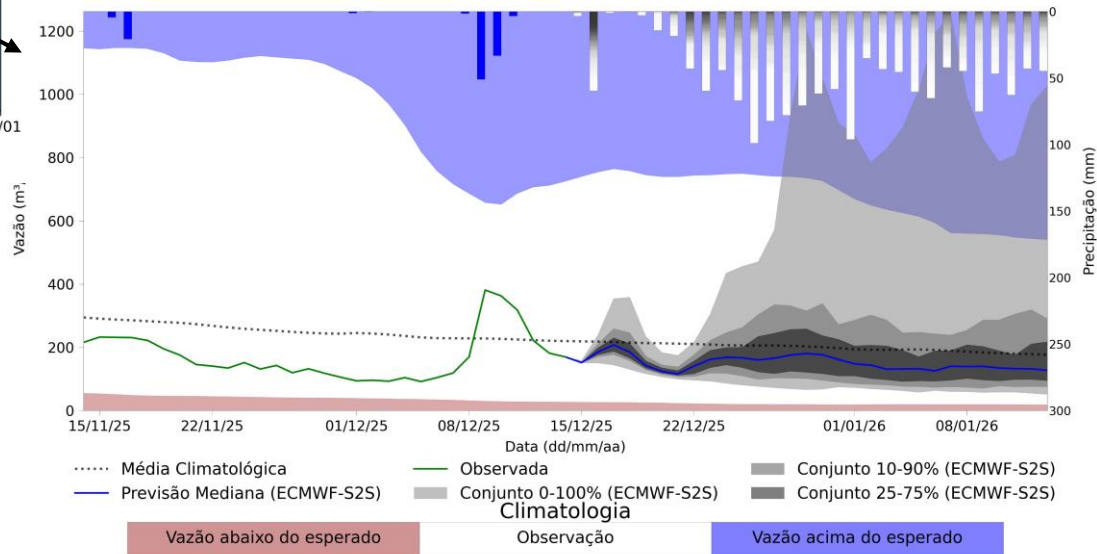
## Previsão de vazão natural na Região Sul

### UHE 14 de Julho

**PREVISÃO: 14/12/25 a 13/01/26**



### UHE Passo Real

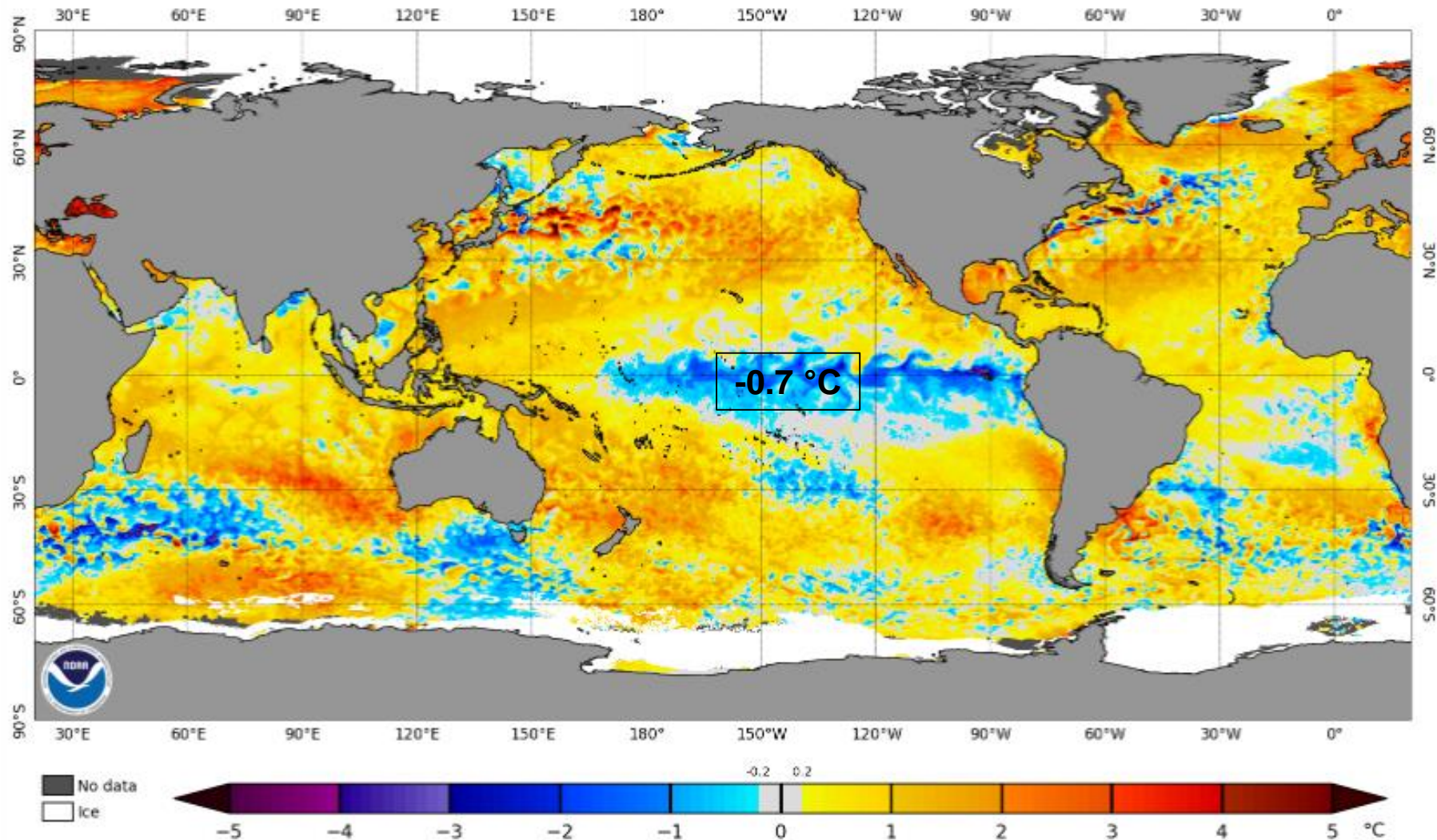


Fonte: Meteorologia (INMET/MERGE);  
Vazão (ANA/ONS)  
MLT: 2003-2024  
Previsão Meteorológica: ECMWF



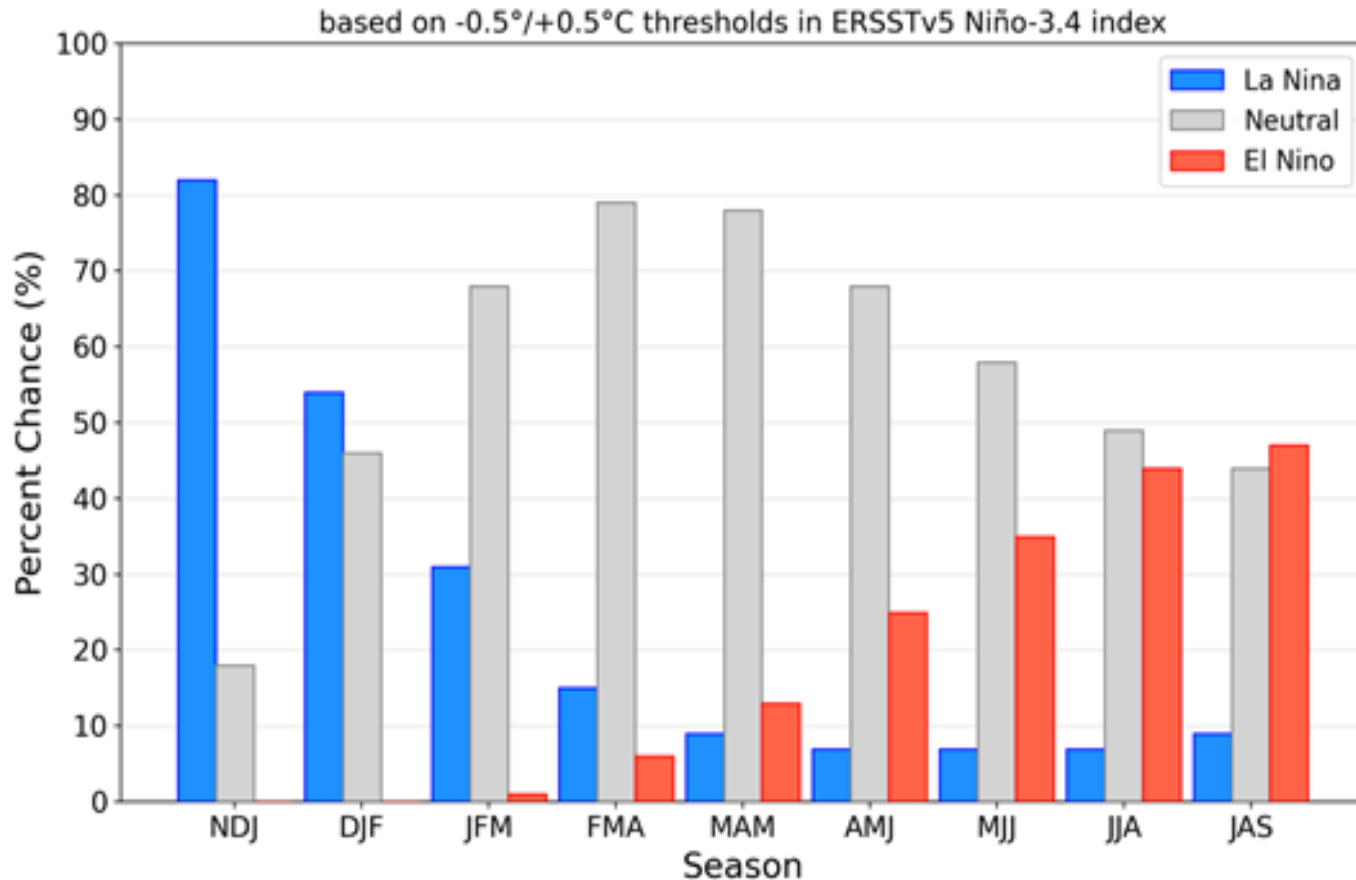
# Situação Oceânica Status La Niña

NOAA Coral Reef Watch Daily 5km SST Anomalies (v3.1) 14 Dec 2025



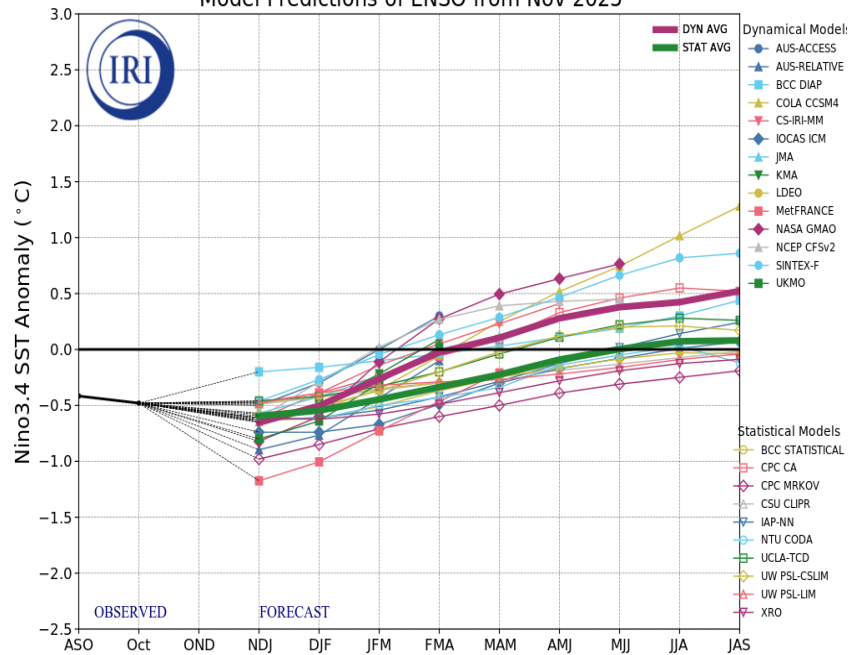
## Previsão do “ENSO”

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

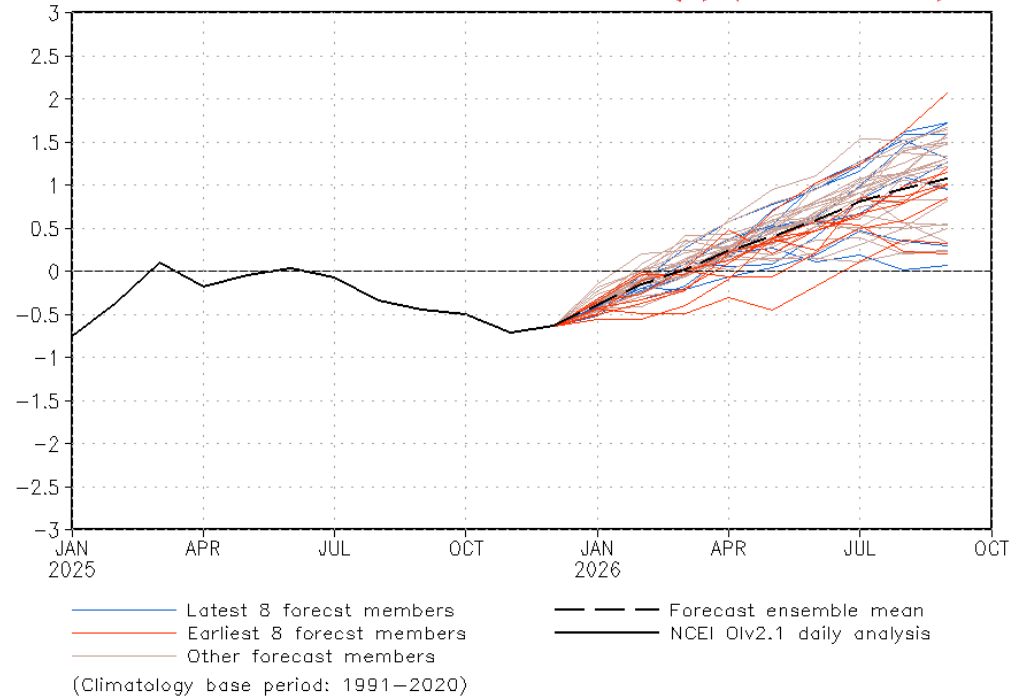


# Previsão do “ENSO”

Model Predictions of ENSO from Nov 2025



CFSv2 forecast Nino3.4 SST anomalies (K) (PDF corrected)





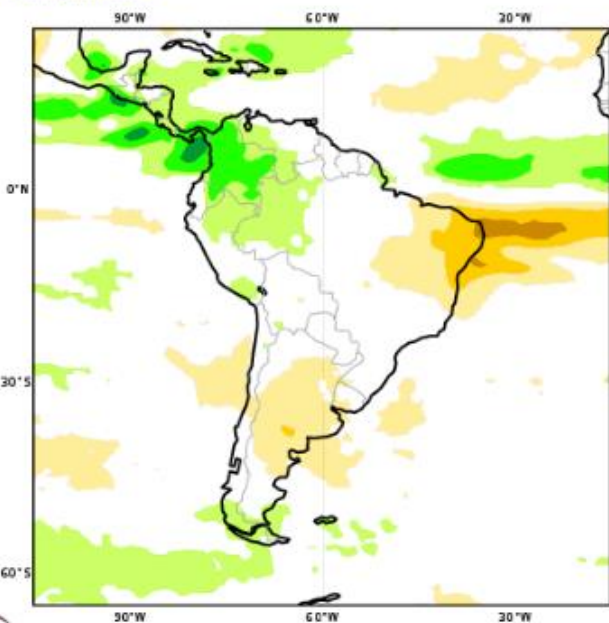
# Previsão Sazonal de Chuva Multi-Modelo

Dezembro-Janeiro-Fevereiro

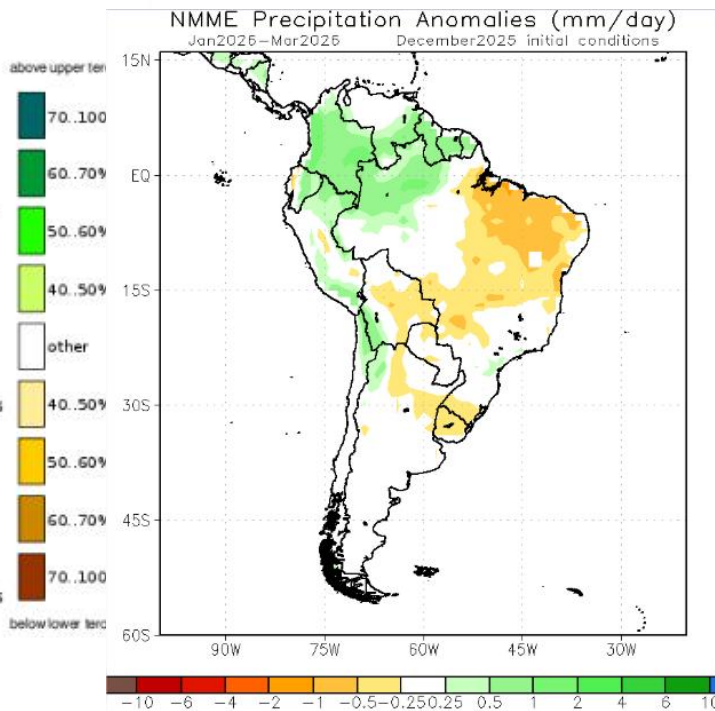
Prob(most likely category of precipitation)

Nominal forecast start: 01/12/25  
Unweighted mean

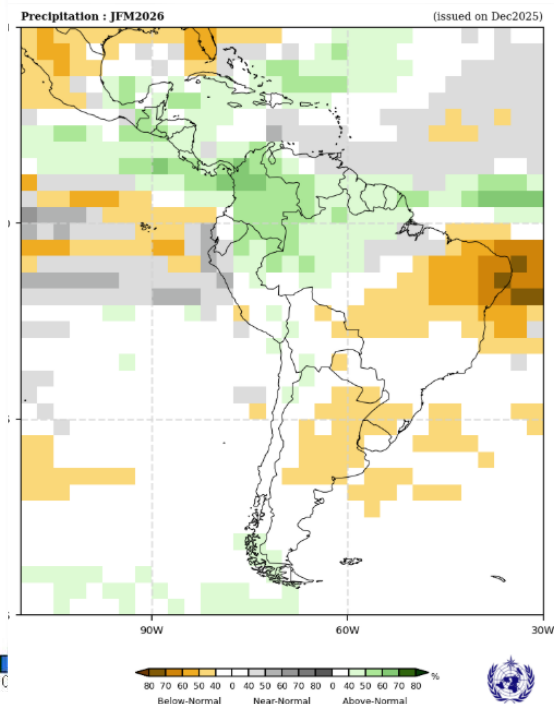
JFM 2026



Modelos “Europeus”



Modelos Norte Americanos



Modelos da WMO