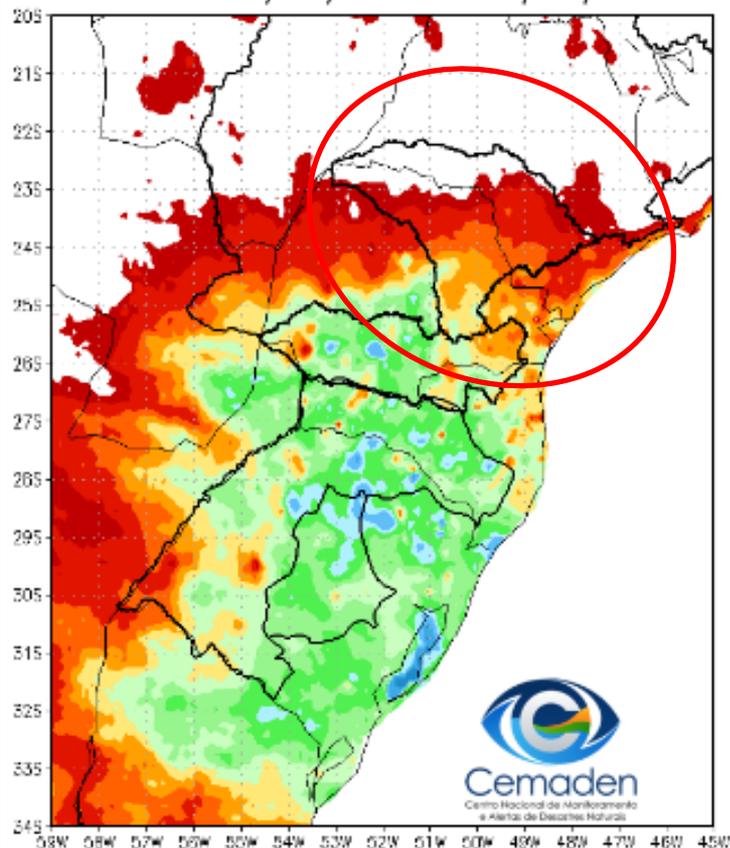


# Monitoramento e Previsões de chuva para a Bacia do Rio Paranapanema

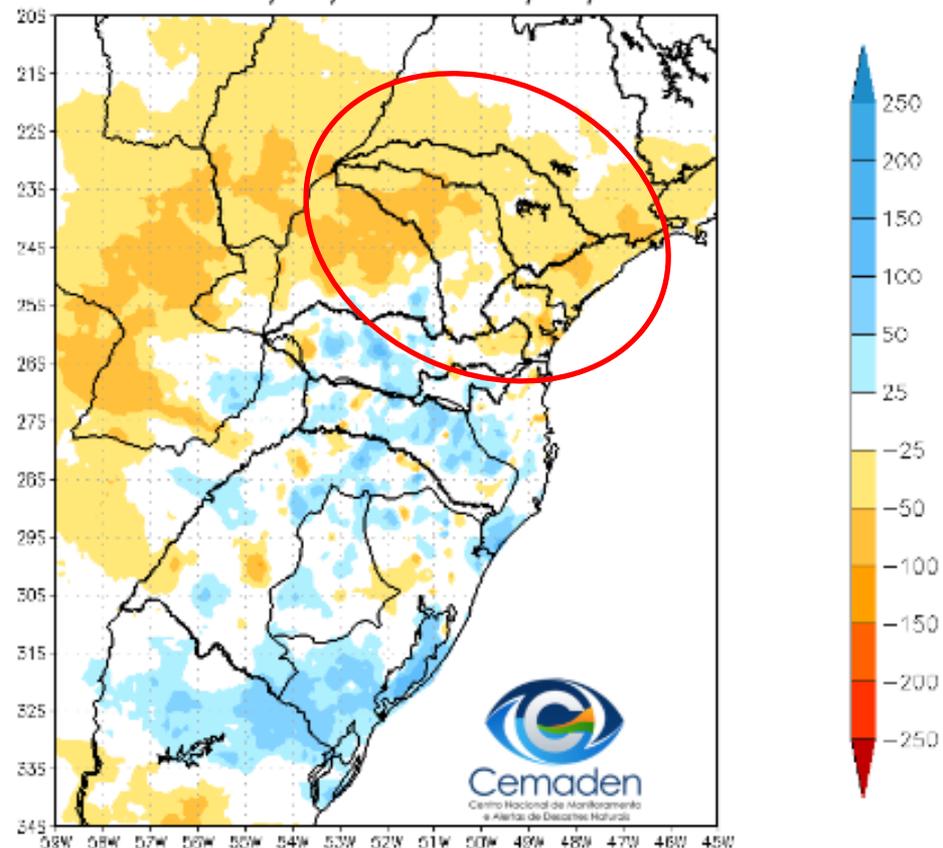


# Precipitação acumulada nos últimos 30 dias

Precipitação Acumulada (mm) A.S.  
Período: 24/06/2023 a 24/07/2023

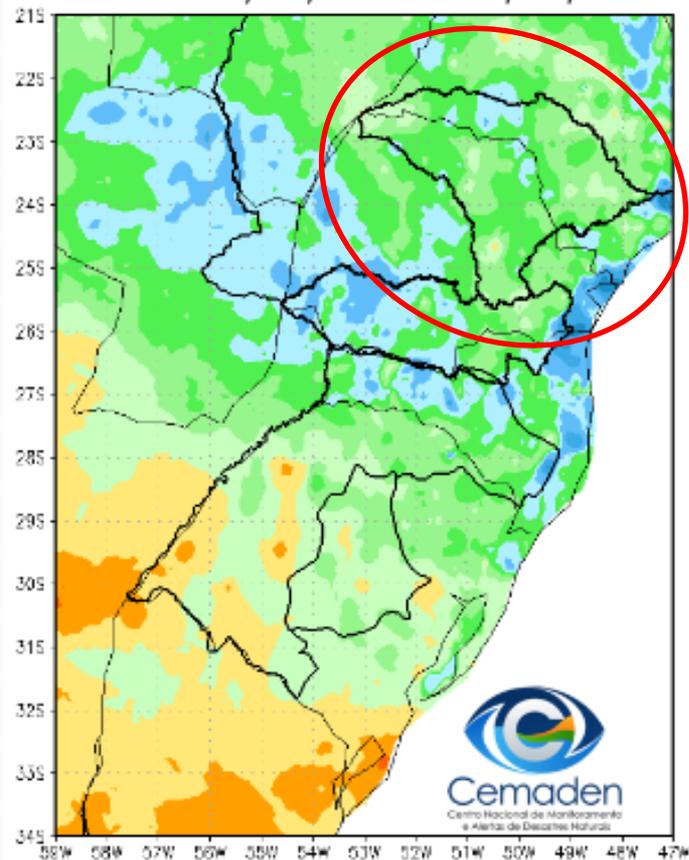


Anomalia de Precipitação (mm) A.S.  
Período: 24/06/2023 a 24/07/2023

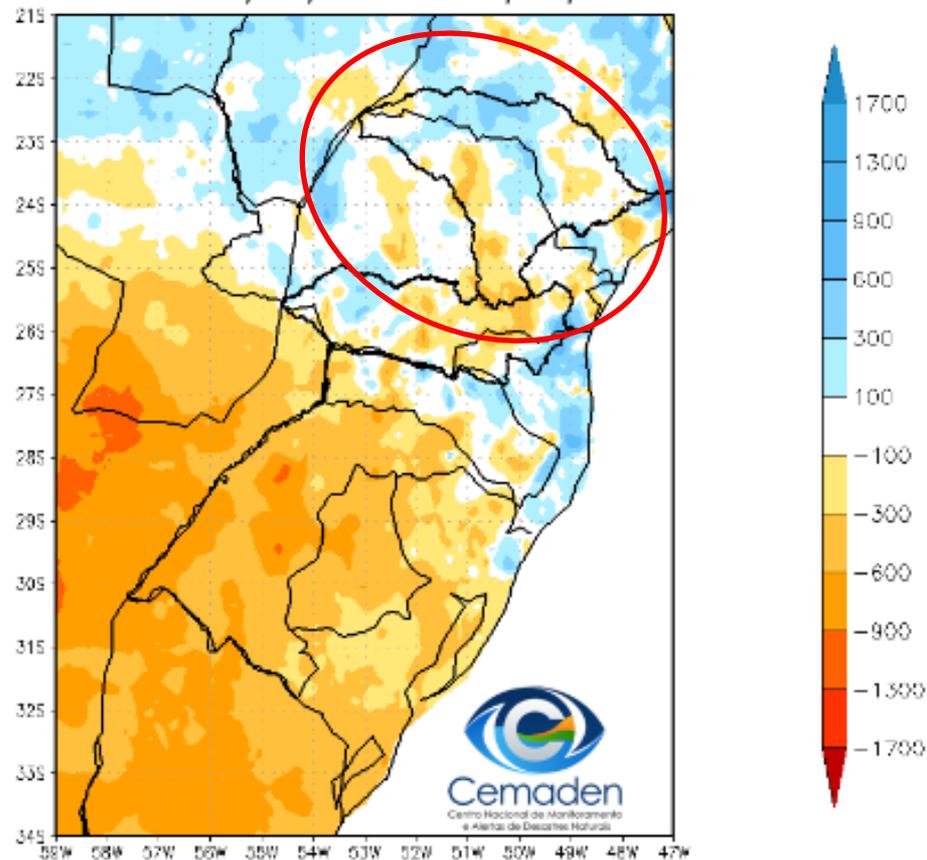


# Precipitação acumulada Ano Hidrológico

Precipitação Acumulada (mm) A.S.  
Período: 01/10/2022 a 24/07/2023

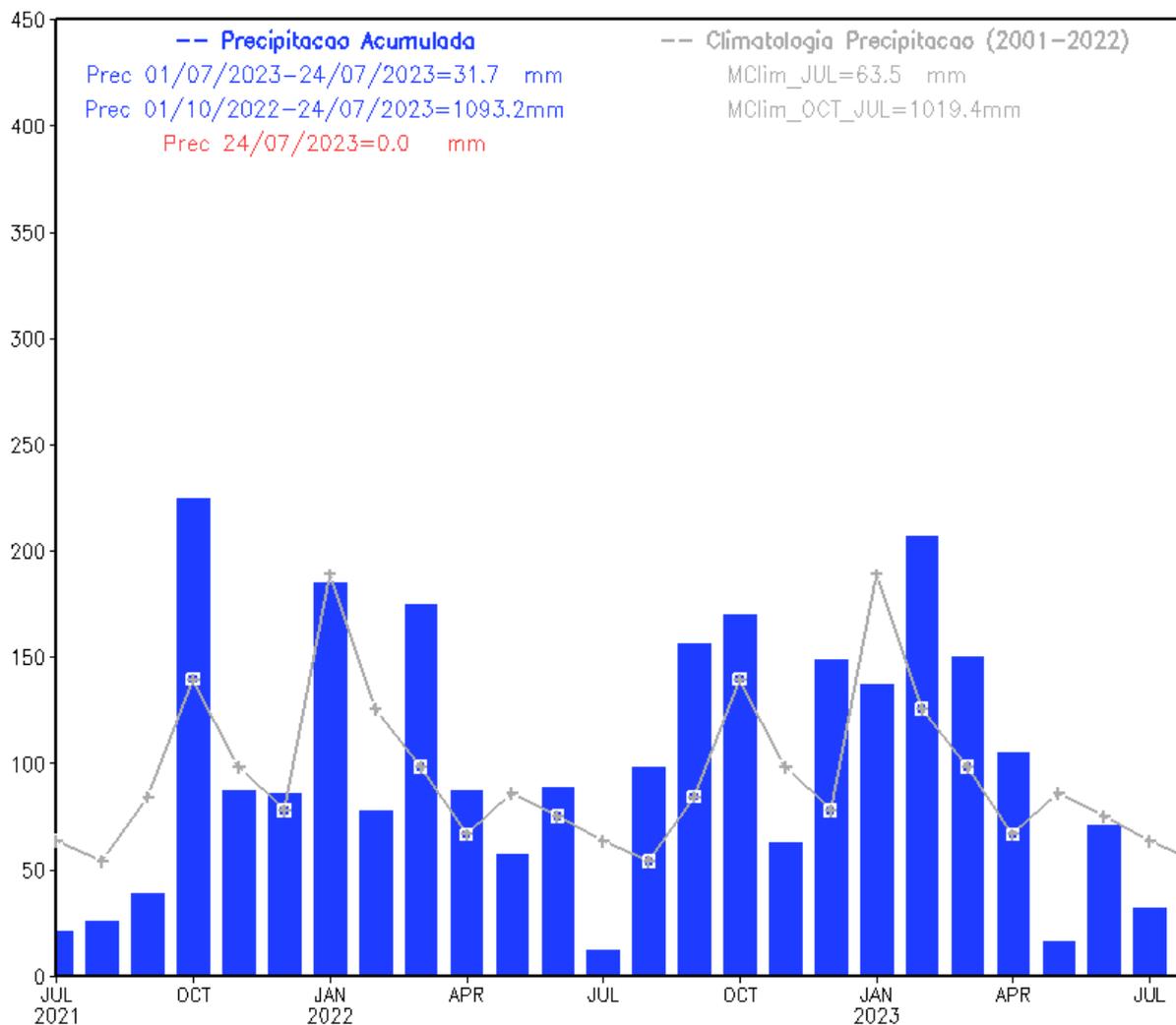


Anomalia de Precipitação (mm) A.S.  
Período: 01/10/2022 a 24/07/2023



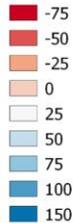
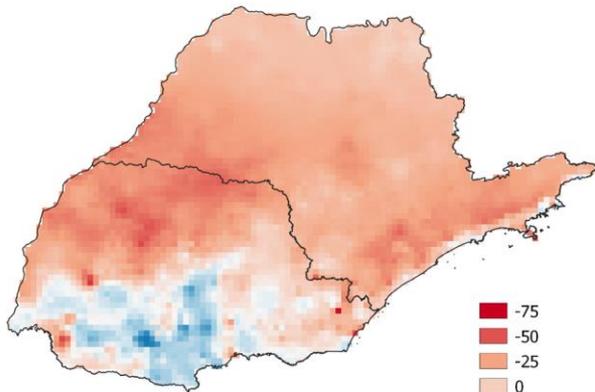
# Evolução temporal da precipitação

## Precipitação Bacia do Rio Paranapanema desde JUL 2021

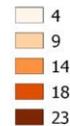
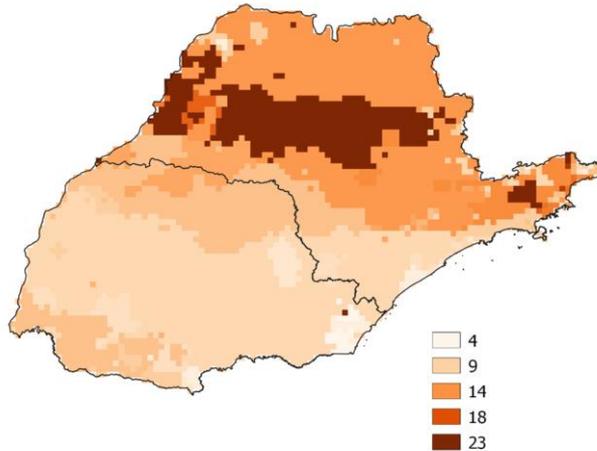


# PRECIPITAÇÃO: JULHO 2023 (ATÉ 23/07)

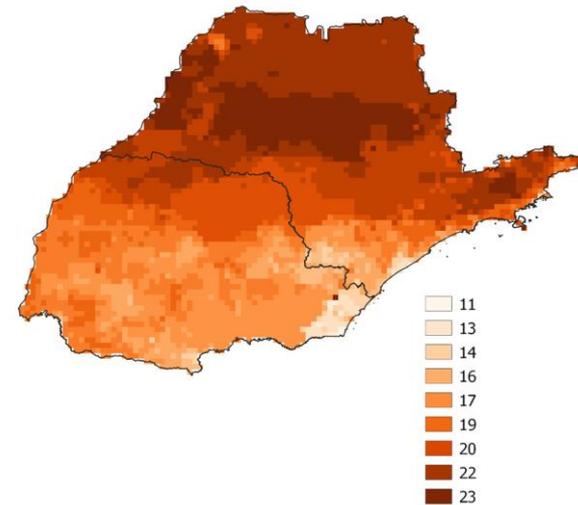
## Anomalia (%)



## Máximo de dias consecutivos sem chuva

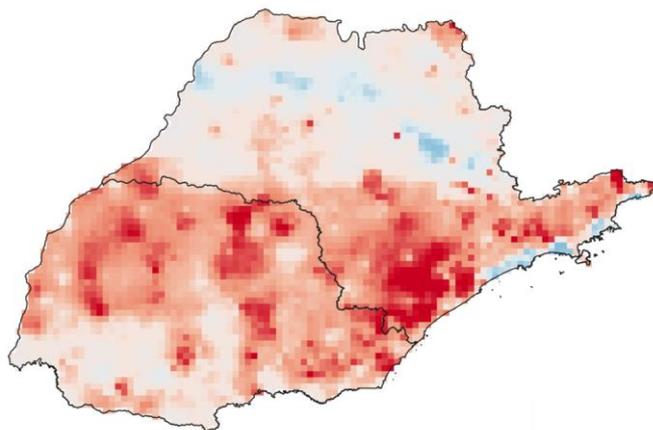


## Total de dias sem chuva

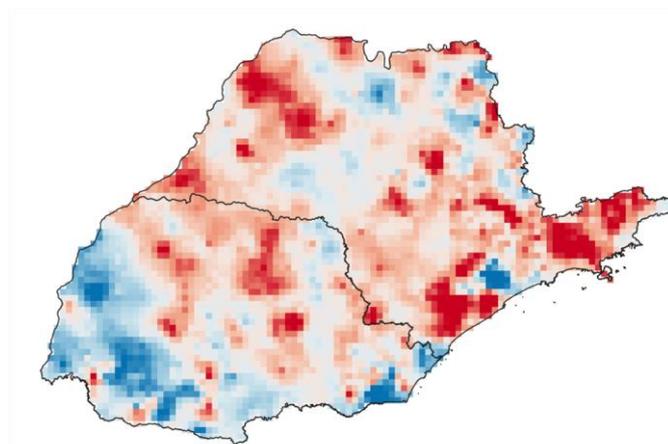


# SPI: JULHO 2023

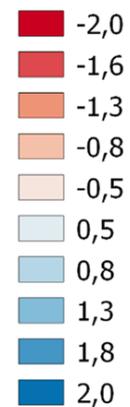
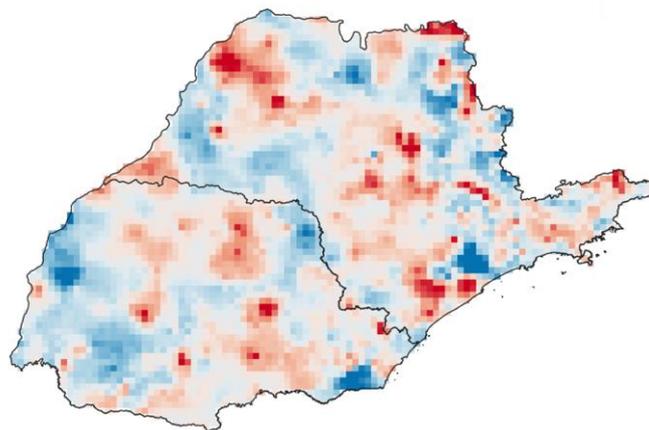
**SPI03**



**SPI24**



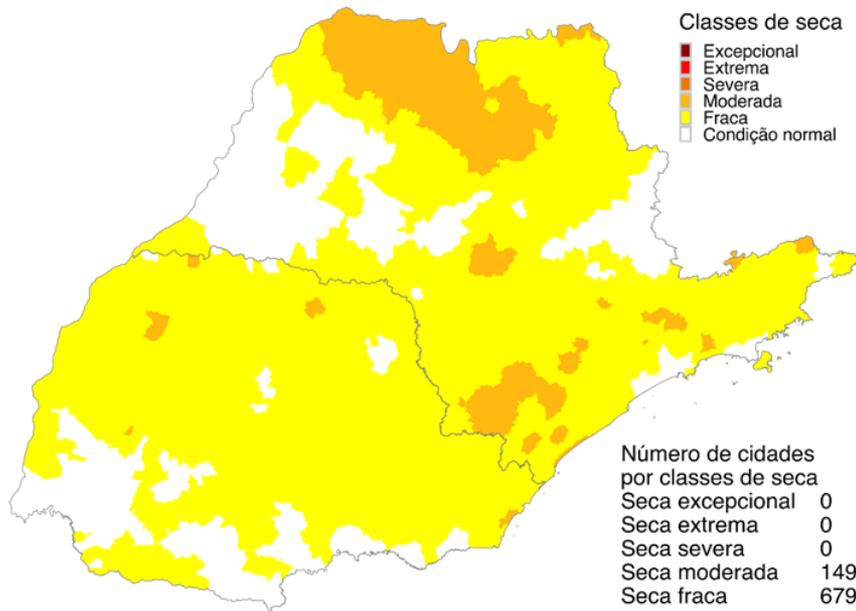
**SPI12**



# ÍNDICE INTEGRADO DE SECA - IIS

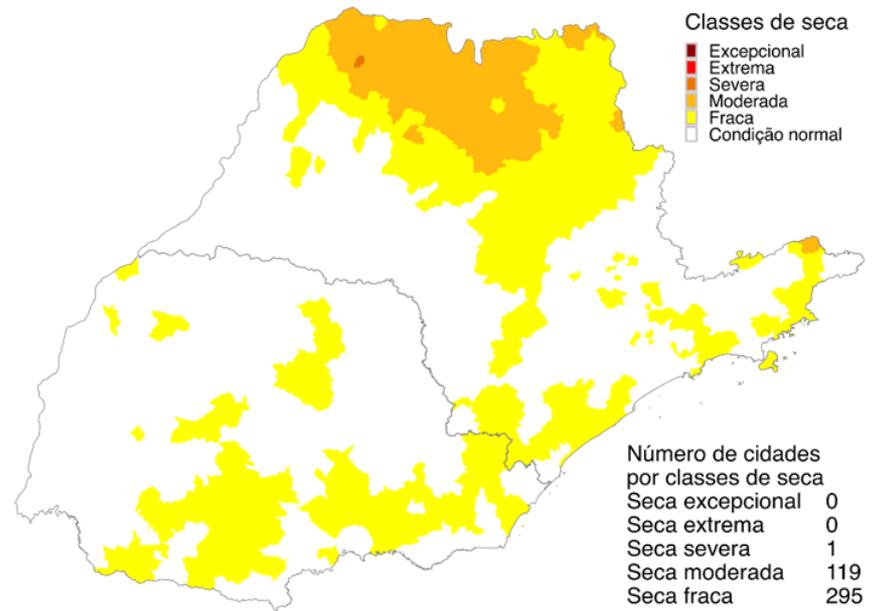
(SPI3 E 6 + VHI + AUS): JULHO/2023

**IIS 3 MESES**



Julho 2023  
Índice Integrado de Seca (SPI3, VHI, US)  
Dados: CPTEC/INPE - NOAA - NASA / Preparação: Cemaden/MCTI

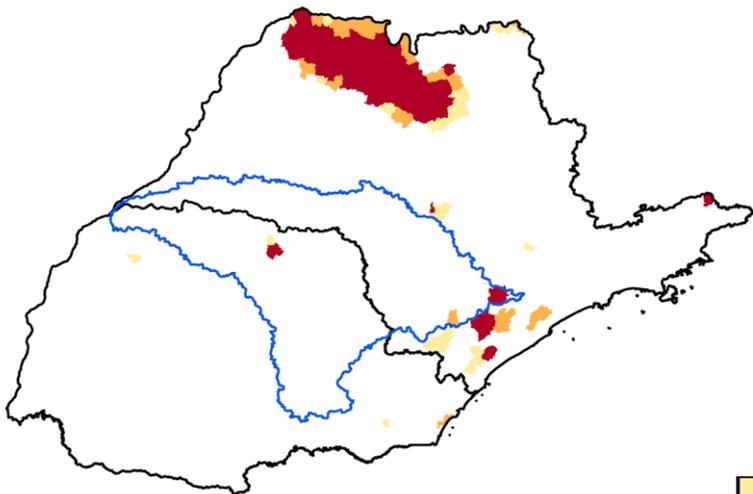
**IIS 6 MESES**



Julho 2023  
Índice Integrado de Seca (SPI6, VHI, US)  
Dados: CPTEC/INPE - NOAA - NASA / Preparação: Cemaden/MCTI

# ÁREAS DE PASTAGENS E AGRÍCOLAS AFETADAS PELA SECA

JULHO (PARCIAL)/23



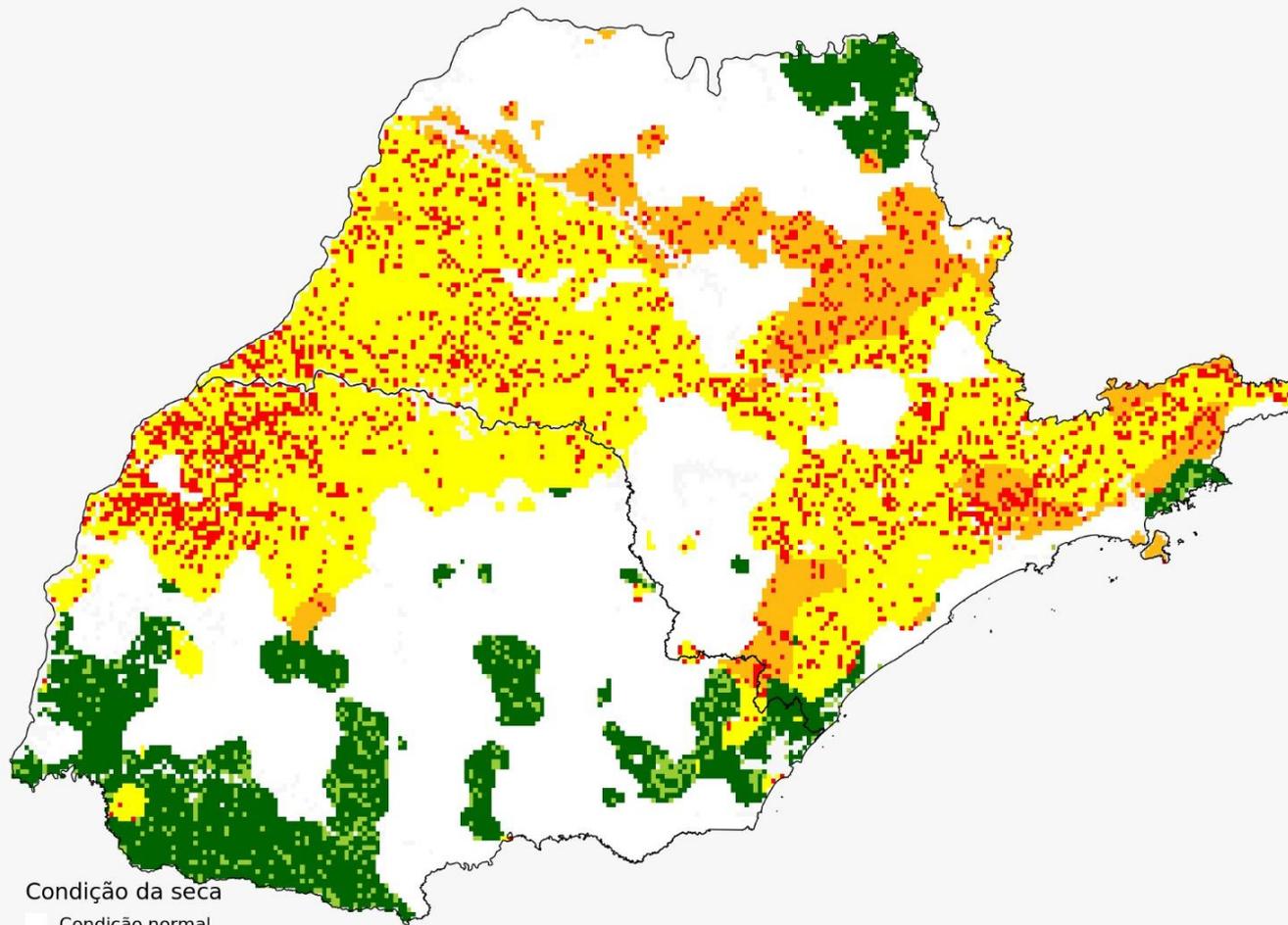
UF	40 a 60%	60 - 80%	> 80%
PR	3	1	2
SP	12	17	87

	40 a 60%	60 - 80%	> 80%	Imóveis Rurais Impactados > 40%
<b>Paraná</b>				
Minifundio	613 (*)	42 (*)	581 (*)	1236 (*)
Pequena Propriedade	441 (*)	28 (*)	420 (*)	889 (*)
Media Propriedade	79 (*)	6 (*)	76 (*)	161 (1%)
<b>São Paulo</b>				
Minifundio	3517 (2%)	4664 (2%)	22594 (12%)	30775 (16%)
Pequena Propriedade	2684 (3%)	2869 (3%)	14476 (14%)	20029 (19%)
Media Propriedade	903 (2%)	1013 (3%)	3976 (11%)	5892 (16%)

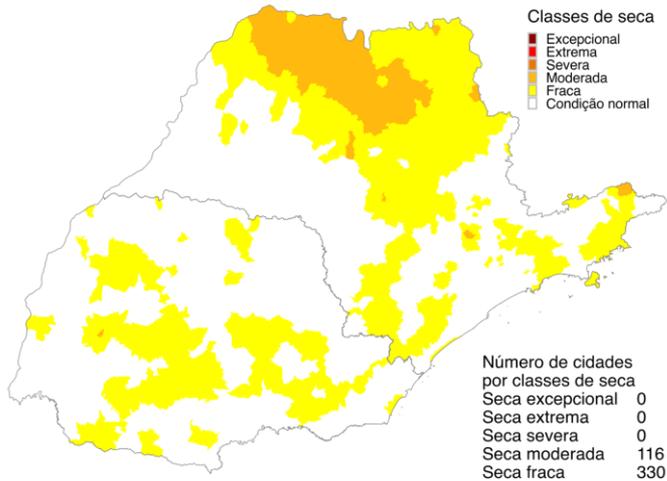
(\*) Porcentagem inferior a 1%.

# PROPAGAÇÃO DAS CONDIÇÕES DE SECA

JULHO/2023



**CHUVA 40% ACIMA DA MÉDIA**



Agosto 2023  
Índice Integrado de Seca (SPI6, VHI, US)  
Cenário: Chuva + 40%  
Dados: CPTEC/INPE - NOAA - NASA / Preparação: Cemaden/MCTI

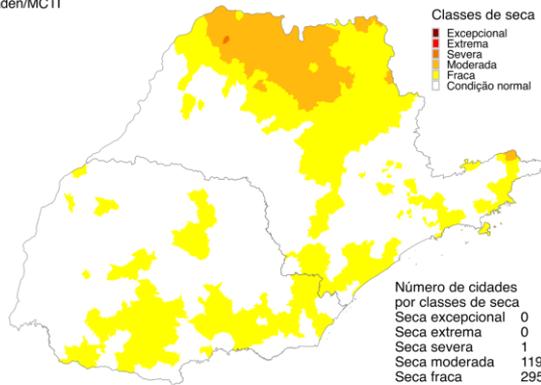
**Agosto/23**

IIS

- Seca Excepcional
- Seca Extrema
- Seca Severa
- Seca Moderada
- Seca Fraca
- Normal

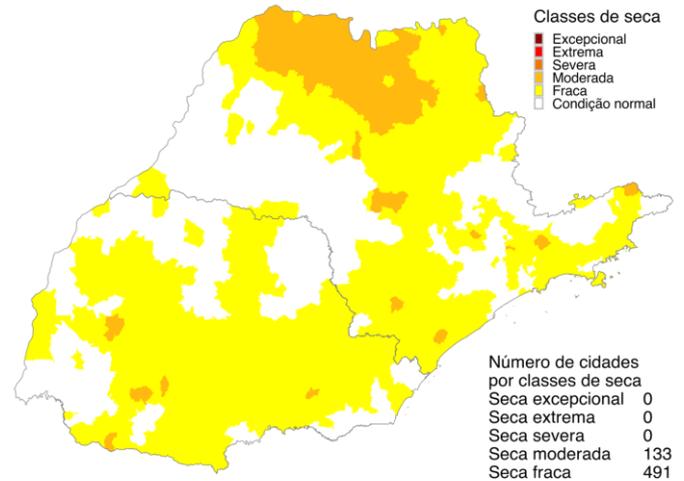
**IIS OBSERVADO (IIS6)**

**Julho/23**



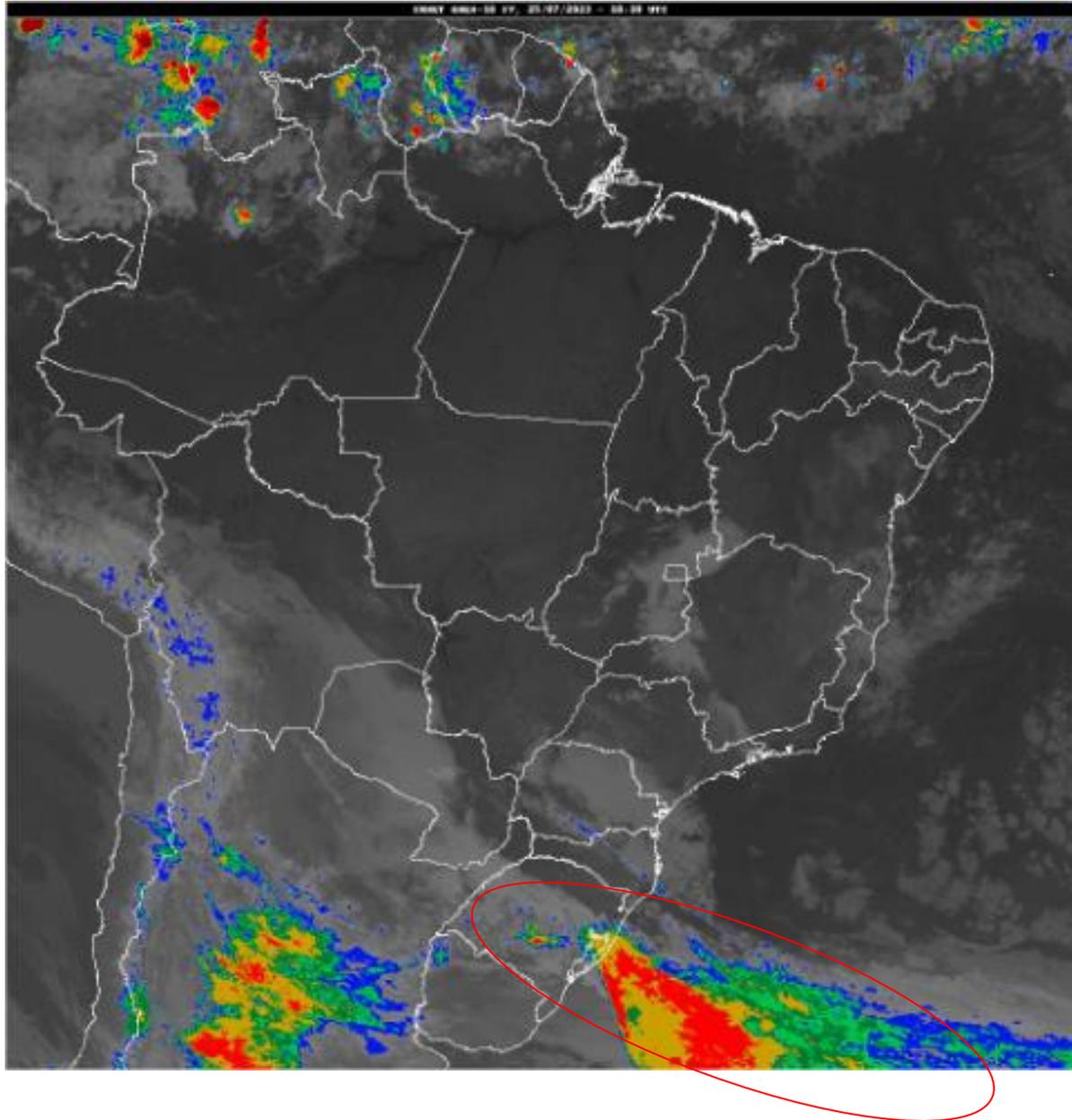
Julho 2023  
Índice Integrado de Seca (SPI6, VHI, US)  
Dados: CPTEC/INPE - NOAA - NASA / Preparação: Cemaden/MCTI

**CHUVA 40% ABAIXO DA MÉDIA**



Agosto 2023  
Índice Integrado de Seca (SPI6, VHI, AUS)  
Cenário: Chuva - 40%  
Dados: CPTEC/INPE - NOAA - NASA / Preparação: Cemaden/MCTI

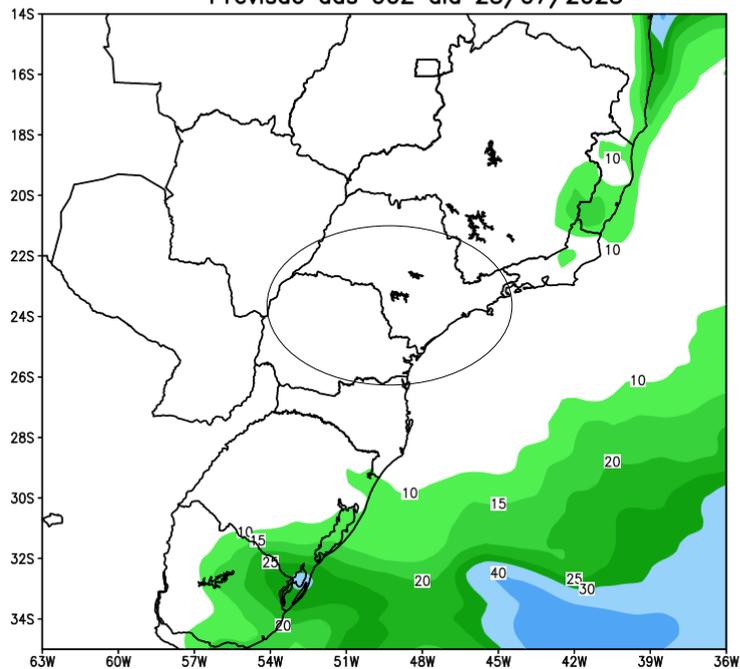
# Situação meteorológica atual



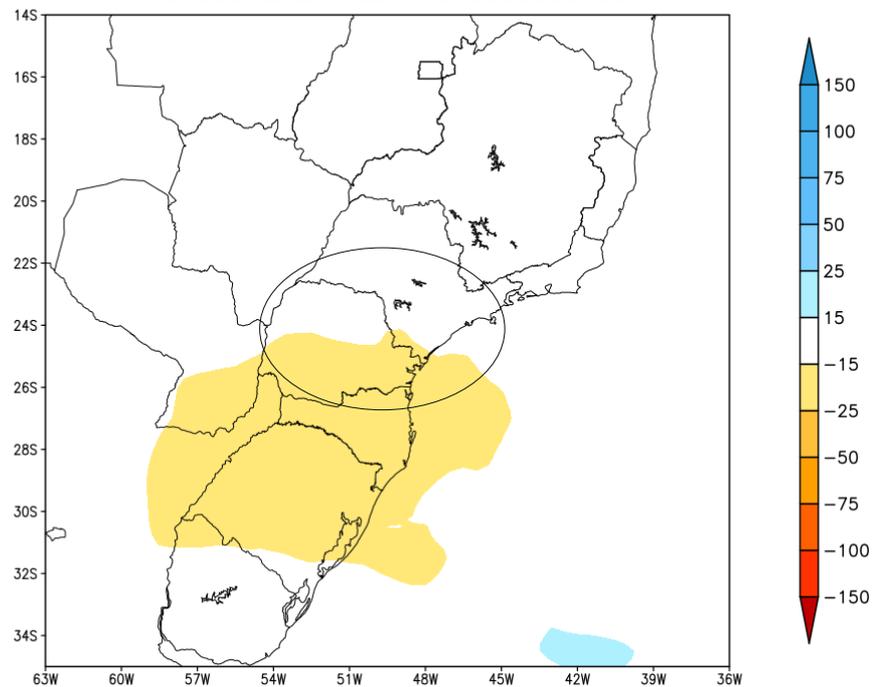
Fonte: INMET

# Previsão de chuva próximos 7 dias

GEFS / BRASIL\_SUL  
Precipitacao acumulada 1aSem (mm)  
Previsao das 00Z dia 25/07/2023



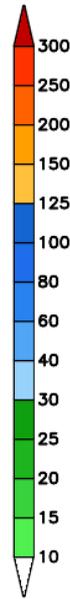
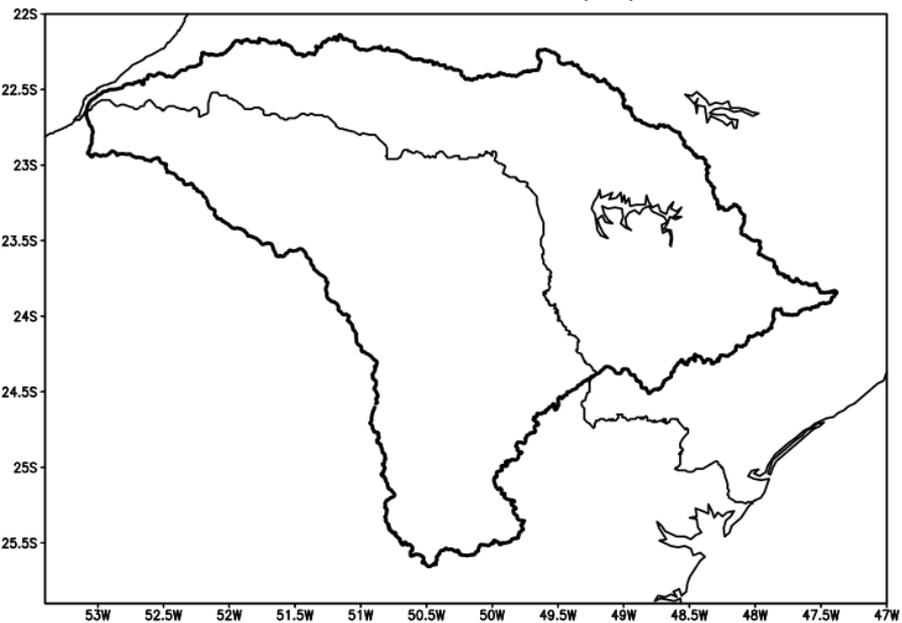
Anomalia de Precipitacao BR\_SUL (mm)  
Periodo: 2023072500 a 2023080100



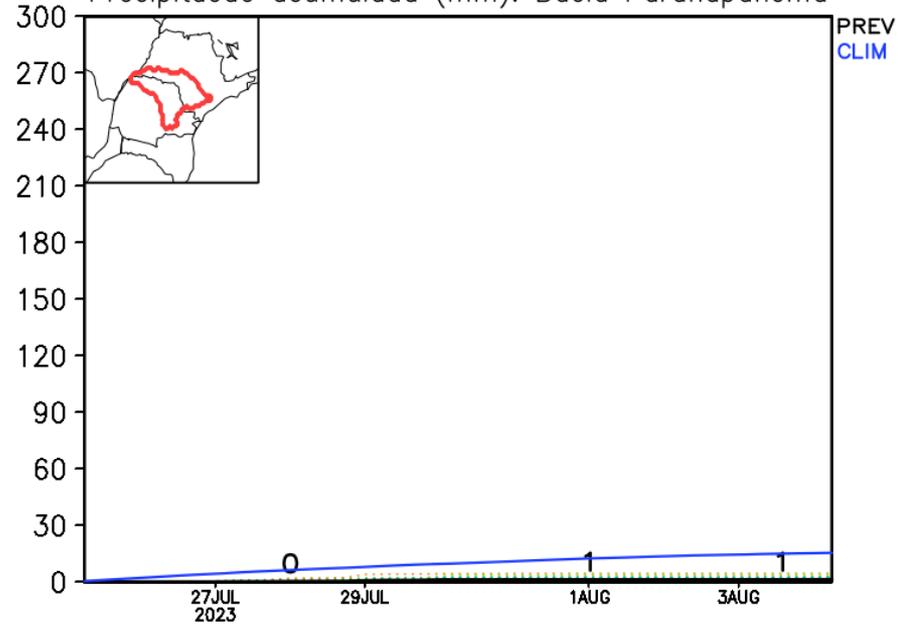
MODELO GFS

# Previsão para a bacia do rio Paranapanema

GEFS / Bacia do Rio Paranapanema  
Precipitação acumulada em 7 dias (mm)  
Previsão das 00Z dia 25/07/2023

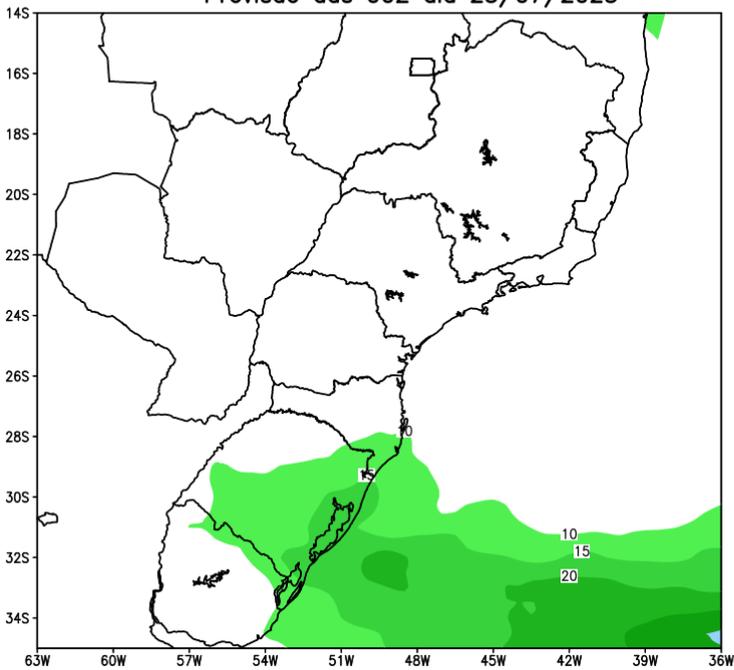


Precipitação acumulada (mm): Bacia Paranapanema

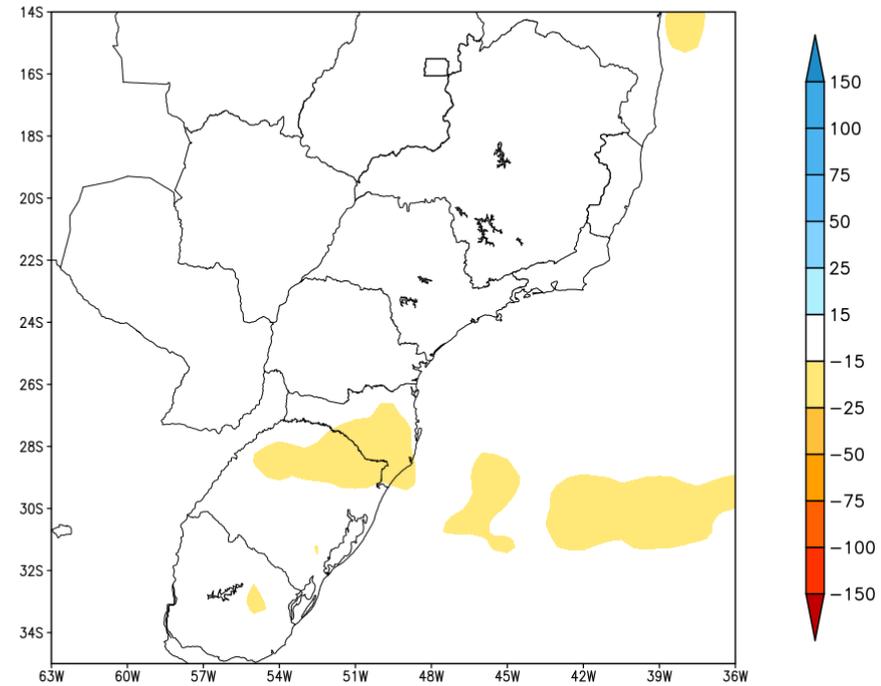


# Tendência para a segunda semana

GEFS / BRASIL\_SUL  
Precipitacao acumulada 2aSem (mm)  
Previsao das 00Z dia 25/07/2023



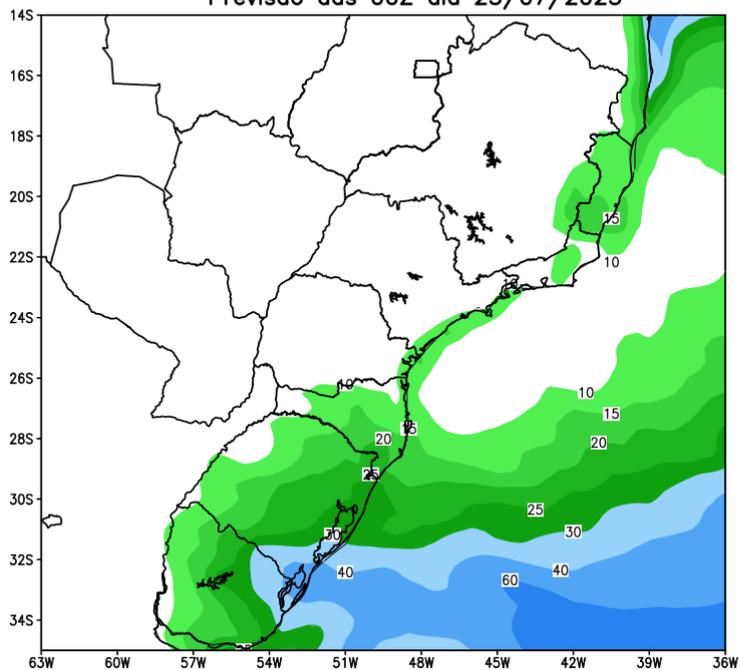
Anomalia de Precipitacao BR\_SUL (mm)  
Periodo: 2023080200 a 2023080800



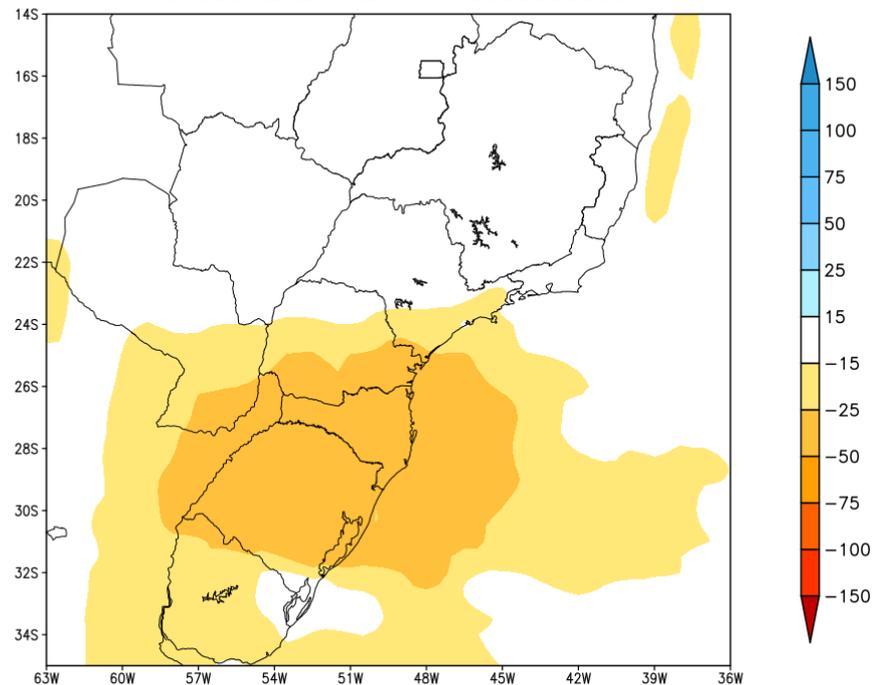
MODELO GFS

# Tendência para as duas próximas semanas

GEFS / BRASIL\_SUL  
Precipitacao acumulada 14dias (mm)  
Previsao das 00Z dia 25/07/2023



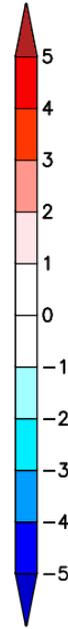
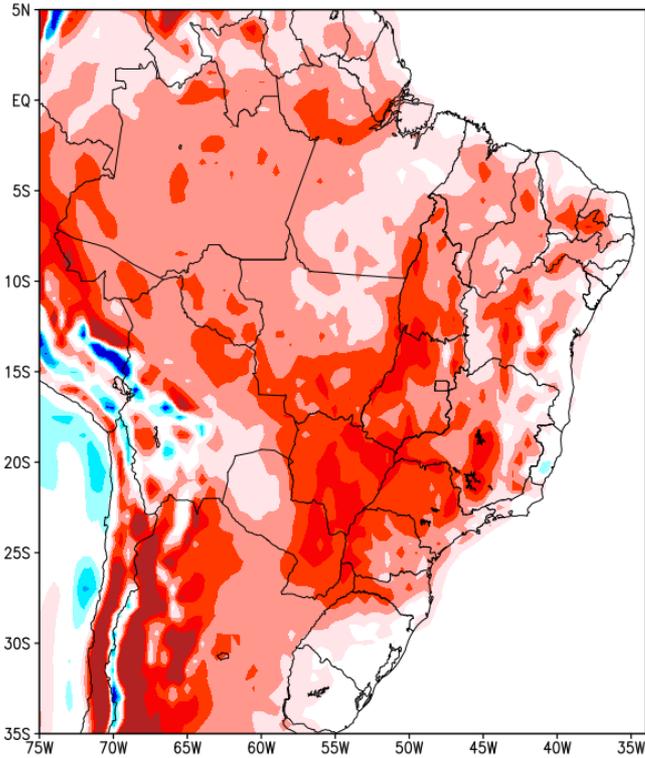
Anomalia de Precipitacao BR\_SUL (mm)  
Periodo: 2023072500 a 2023080800



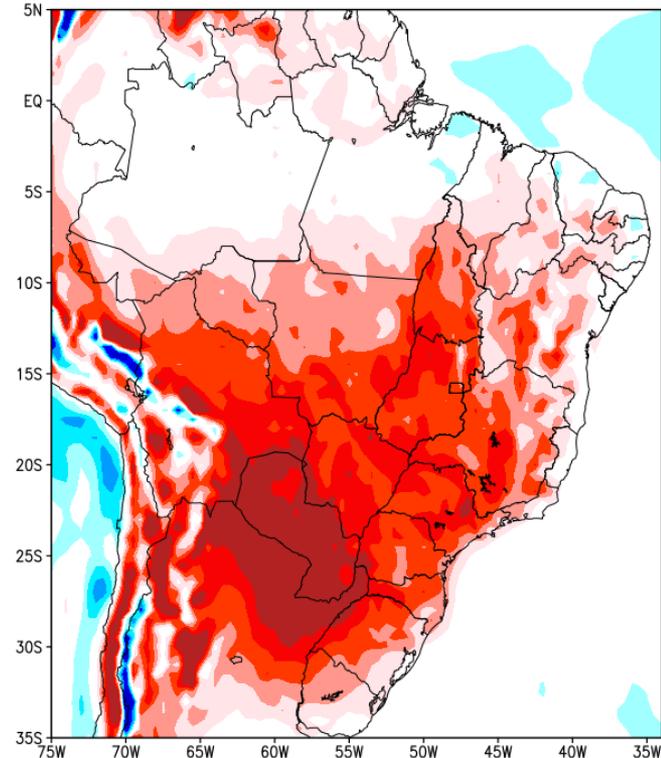
MODELO GFS

# Previsão de Temperatura

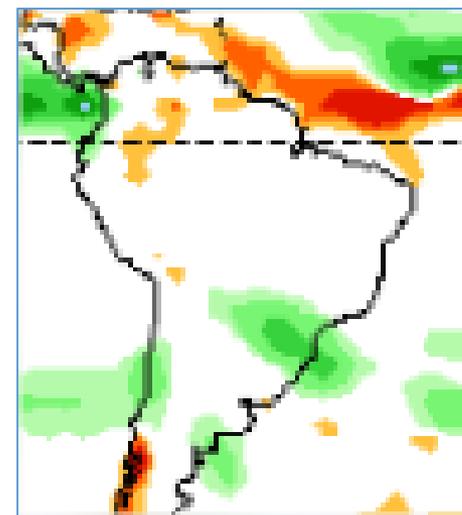
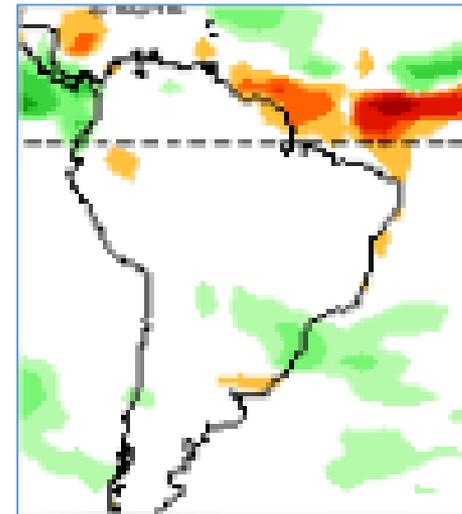
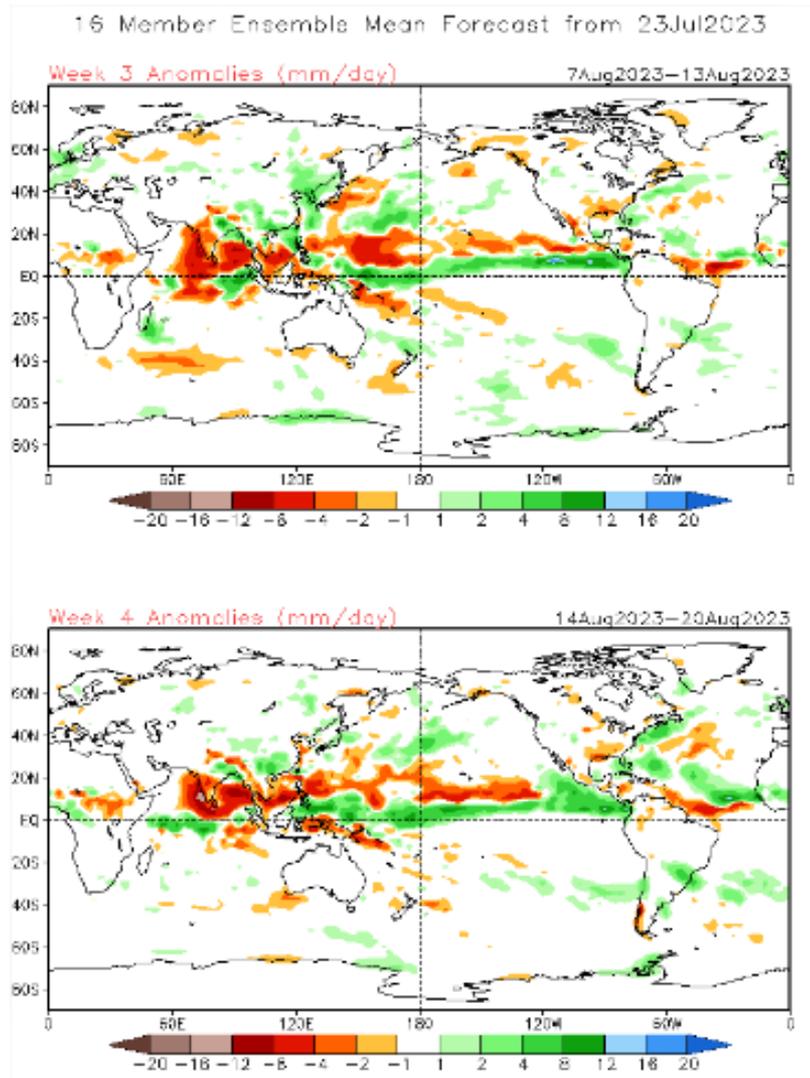
Anomalia de Temperatura BR (C)  
Período: 2023072500 a 2023080100



Anomalia de Temperatura BR (C)  
Período: 2023080200 a 2023080800



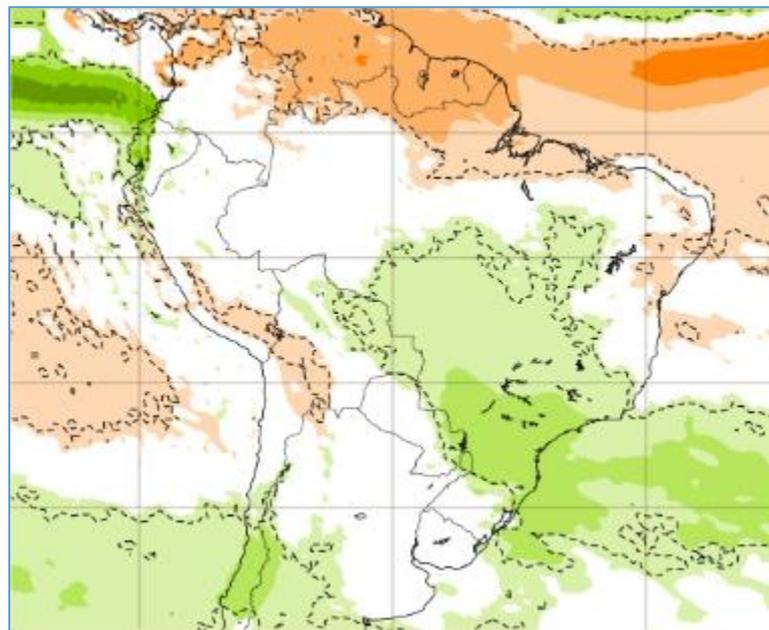
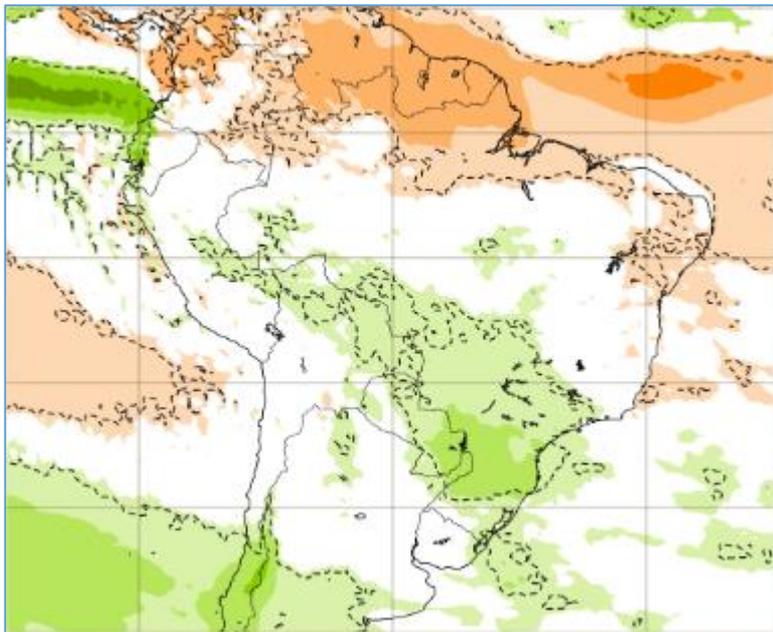
# Tendência 3a e 4a semanas



# Tendência para 3ª e 4ª semanas

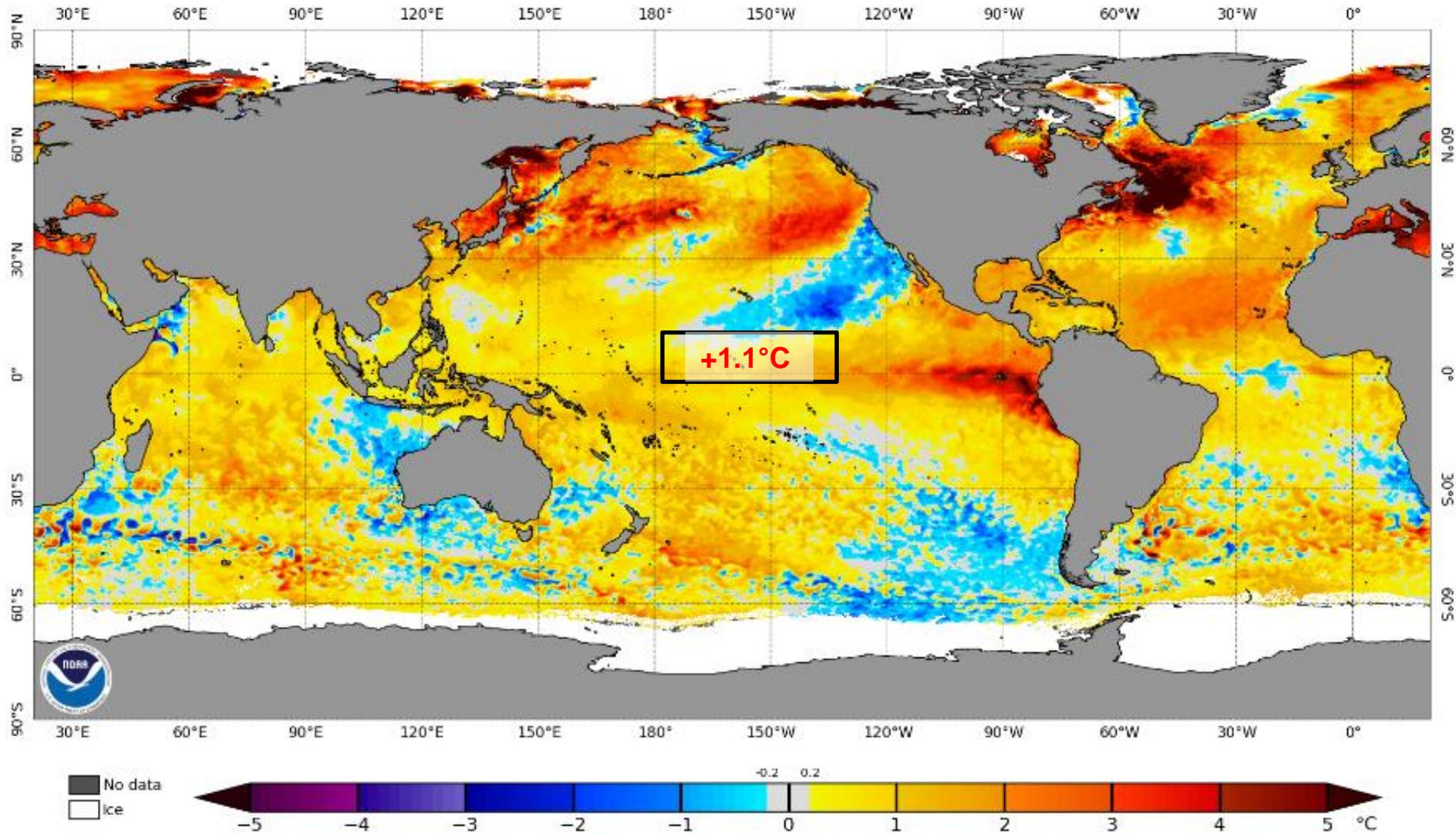
07-14/08

14-21/08



# Status Atual: El Niño

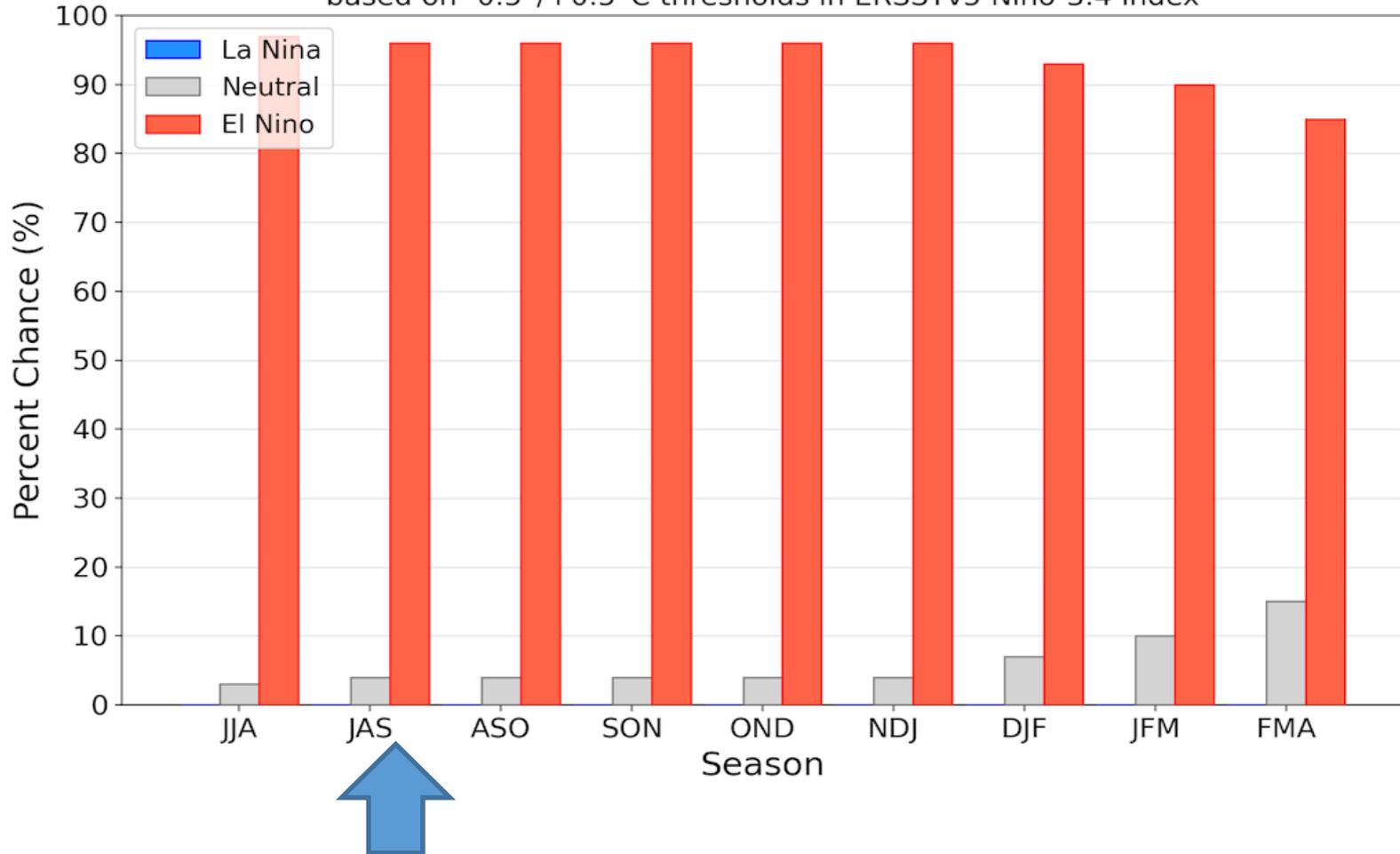
NOAA Coral Reef Watch Daily 5km SST Anomalies (v3.1) 23 Jul 2023



# Previsão do “ENSO”

## Official NOAA CPC ENSO Probabilities (issued July 2023)

based on  $-0.5^{\circ}/+0.5^{\circ}\text{C}$  thresholds in ERSSTv5 Niño-3.4 index

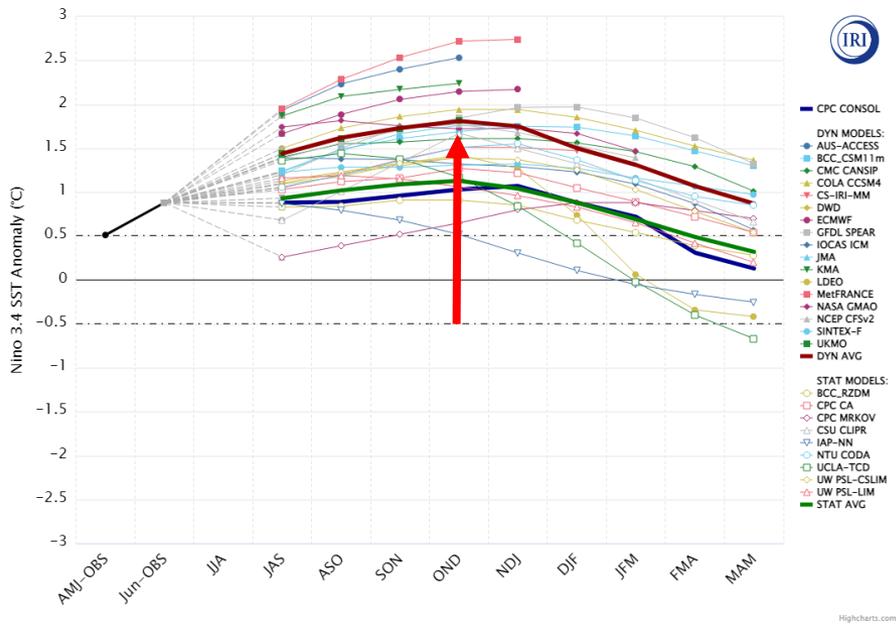


Status Atual: **El Niño**

FONTE: NOAA

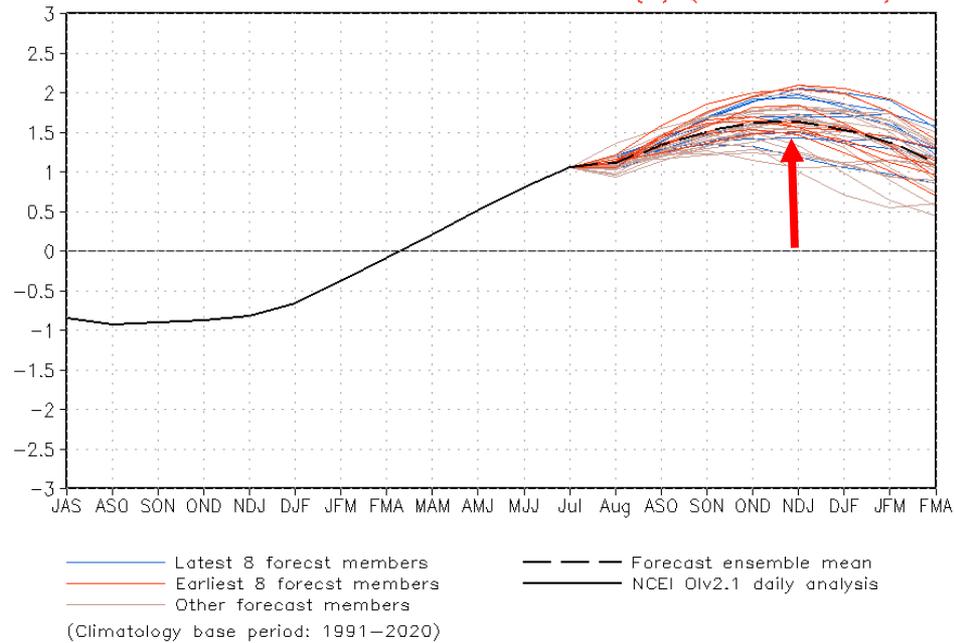
# Previsão do “ENSO”

Model Predictions of ENSO from Jul 2023



Atualizado: 19 de julho 2023

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



Atualizado: 24 de julho 2023

# Previsão sazonal de Chuva ASO

