



# CEMADEN

Centro Nacional de Monitoramento e  
Alertas de Desastres Naturais

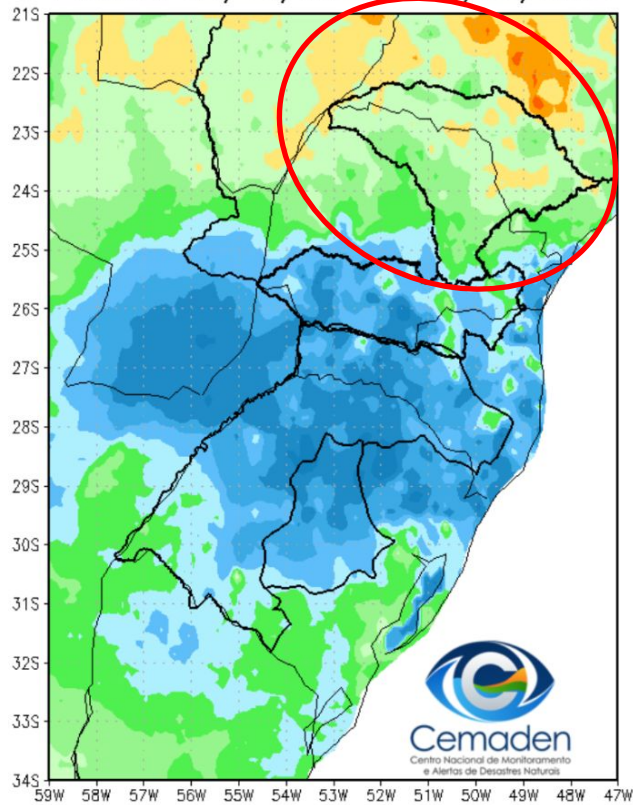
Monitoramento,  
Previsões e  
Projeções para a  
Bacia do Rio  
Paranapanema

Julho de 2024

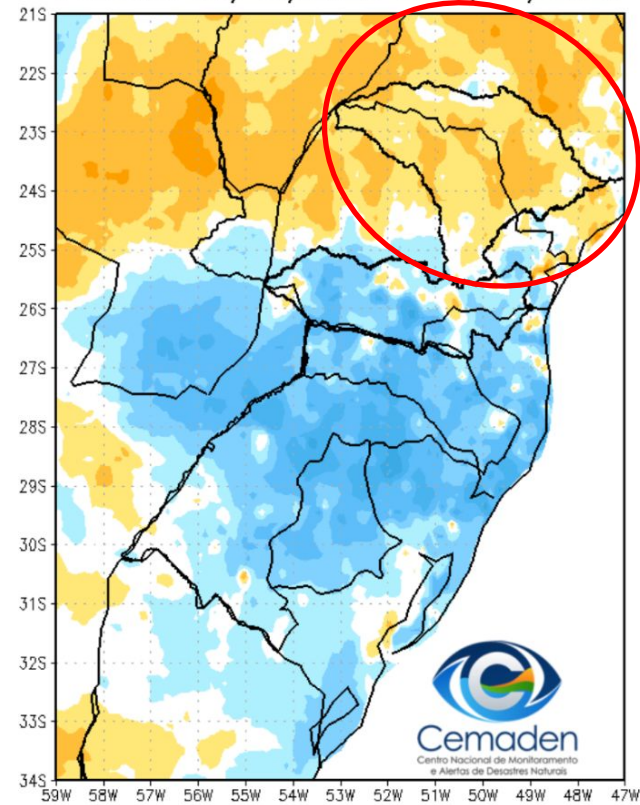


# Precipitação acumulada Ano Hidrológico

Precipitação Acumulada (mm) A.S.  
Período: 01/10/2023 a 25/07/2024



Anomalia de Precipitação (mm) A.S.  
Período: 01/10/2023 a 25/07/2024



# Monitoramento da situação da seca na bacia do rio Paranapanema

DIAGNÓSTICO: JULHO/2024



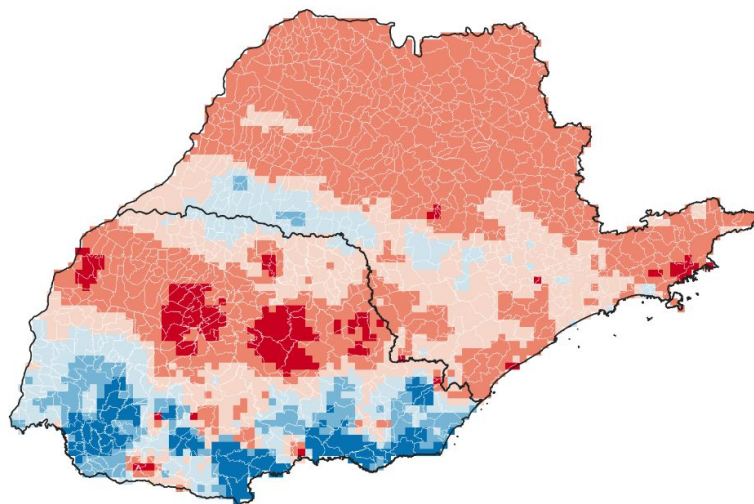
MINISTÉRIO DA  
CIÊNCIA, TECNOLOGIA  
E INOVAÇÕES



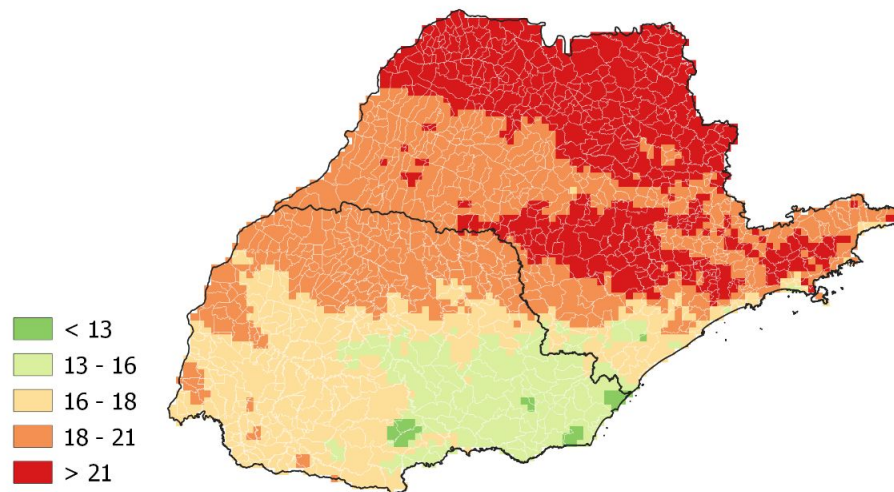


## PRECIPITAÇÃO : JULHO (ATÉ 24) 2024

### ANOMALIA (MM)



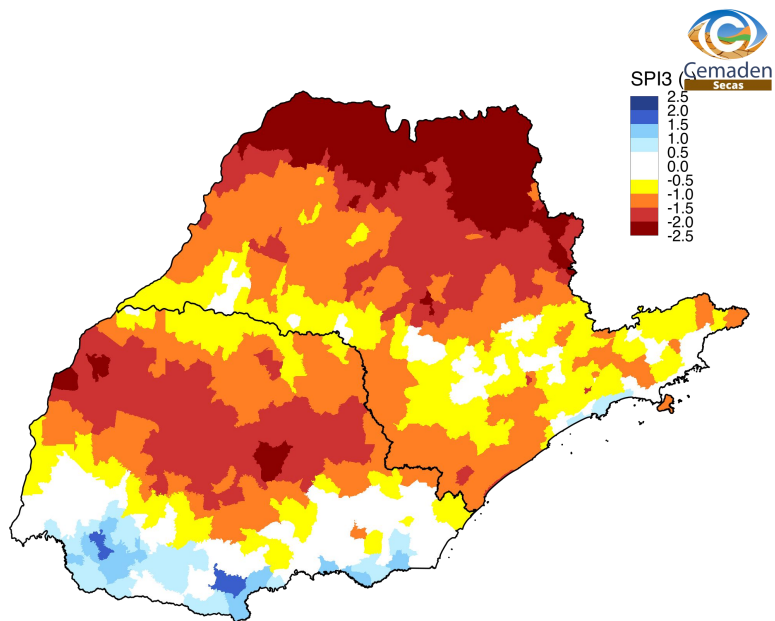
### TOTAL DE DIAS SEM CHUVA





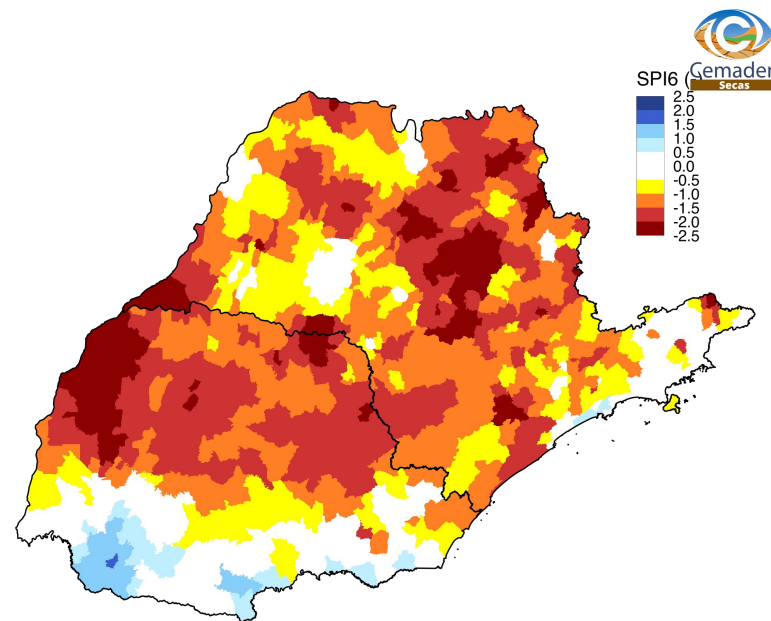
## SPI: JULHO 2024

### SPI-03



Julho 2024  
Índice Padronizado de Precipitação (SPI, 3 meses)  
Fonte: Cemaden/MCTI.

### SPI-06



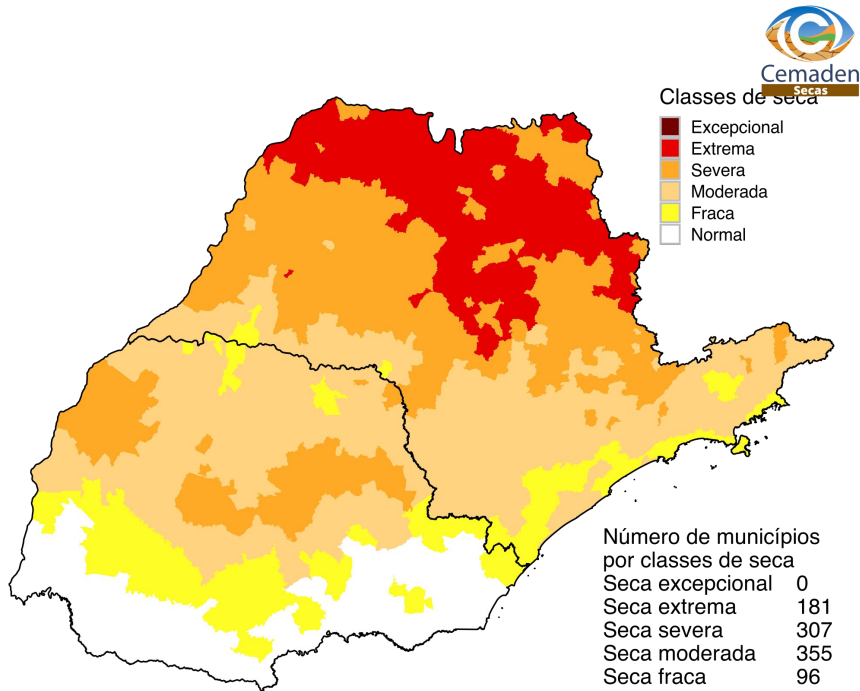
Julho 2024  
Índice Padronizado de Precipitação (SPI, 6 meses)  
Fonte: Cemaden/MCTI.



## ÍNDICE INTEGRADO DE SECA - IIS

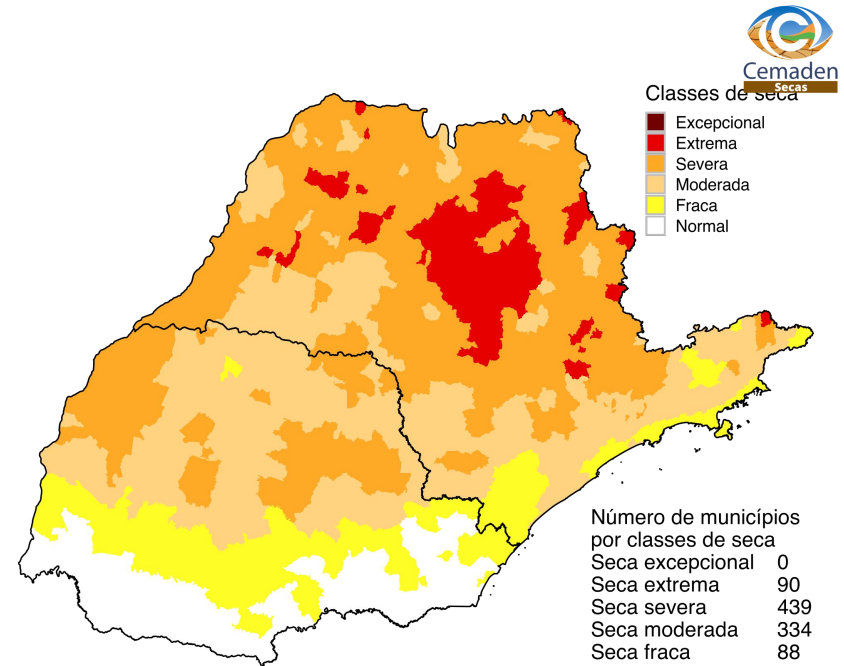
(SPI3 E 6 + VHI + AUS): JULHO/2024

**IIS 3 MESES**



Julho 2024  
Índice Integrado de Seca (SPI3, VHI, US)  
Fonte: Cemaden/MCTI.

**IIS 6 MESES**



Julho 2024  
Índice Integrado de Seca (SPI6, VHI, US)  
Fonte: Cemaden/MCTI.



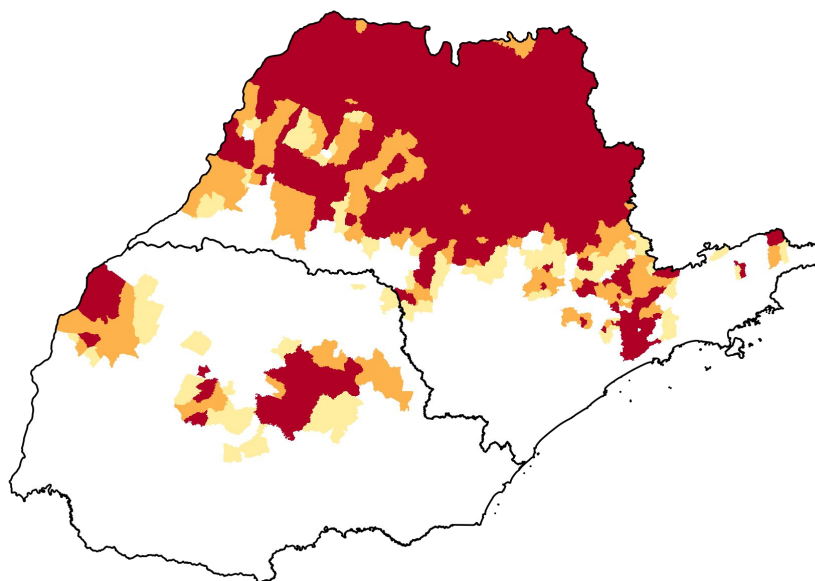
## ÁREAS DE PASTAGENS E AGRÍCOLAS AFETADAS PELA SECA

IIS-03 JULHO/24



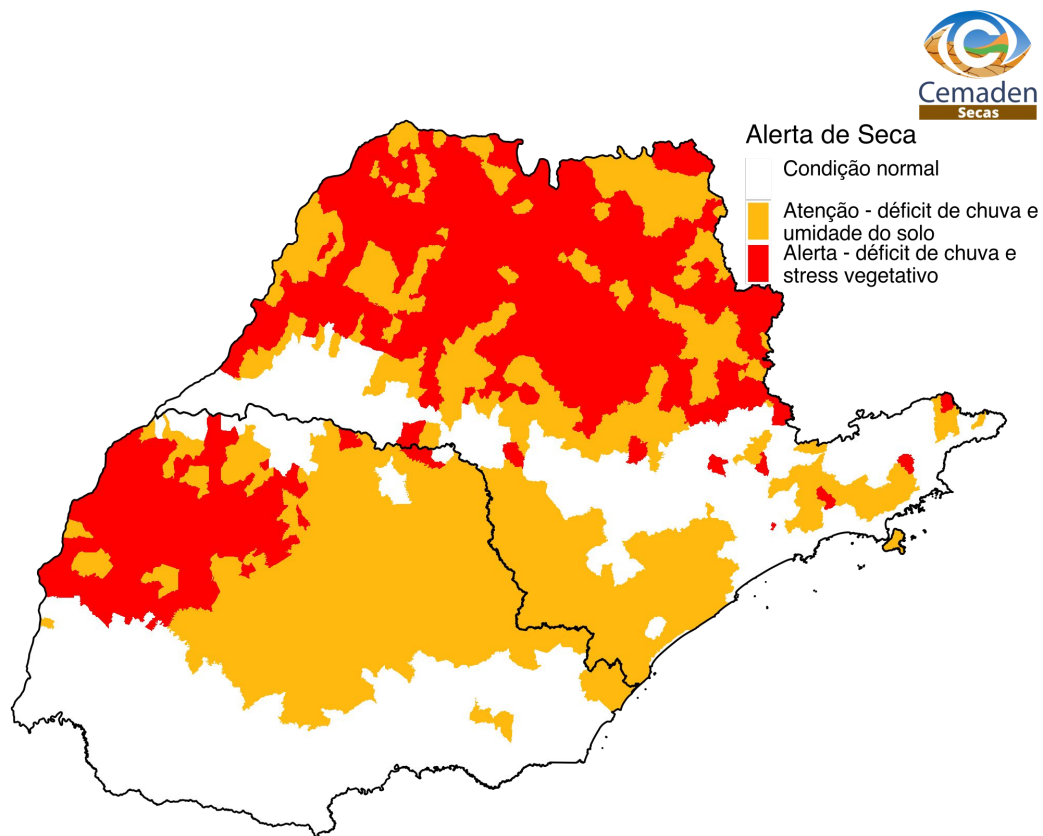
Fração da área afetada

- > 80%
- 60-80%
- 40-60%
- < 40%



Julho 2024  
Fração da área agroprodutiva afetada pela seca  
Fonte: Cemaden/MCTI.

# PROGRESSÃO INCREMENTAL DAS CONDIÇÕES DE SECA (PICS) JULHO 2024

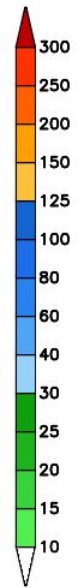
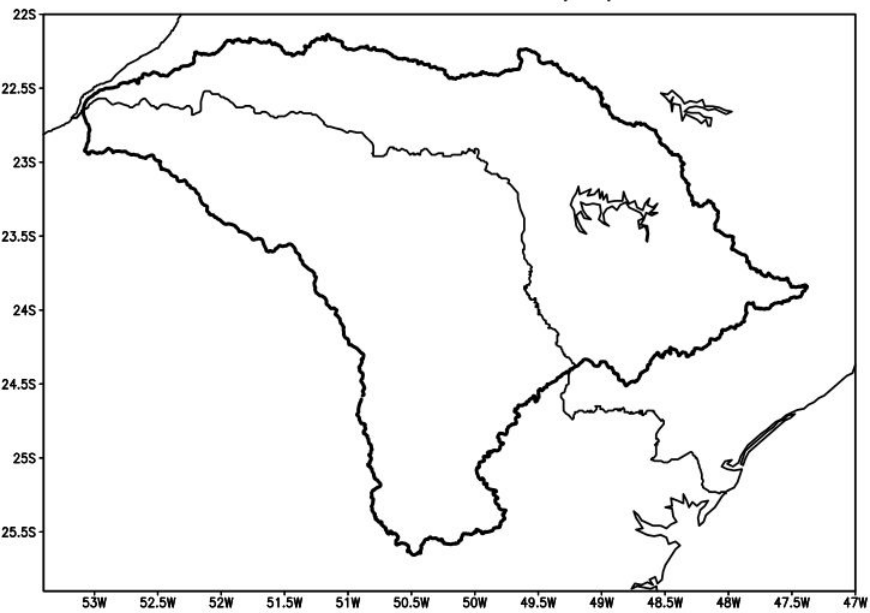


Julho 2024  
Propagação Incremental das Condições de Seca (PICS)  
Fonte: Cemaden/MCTI.

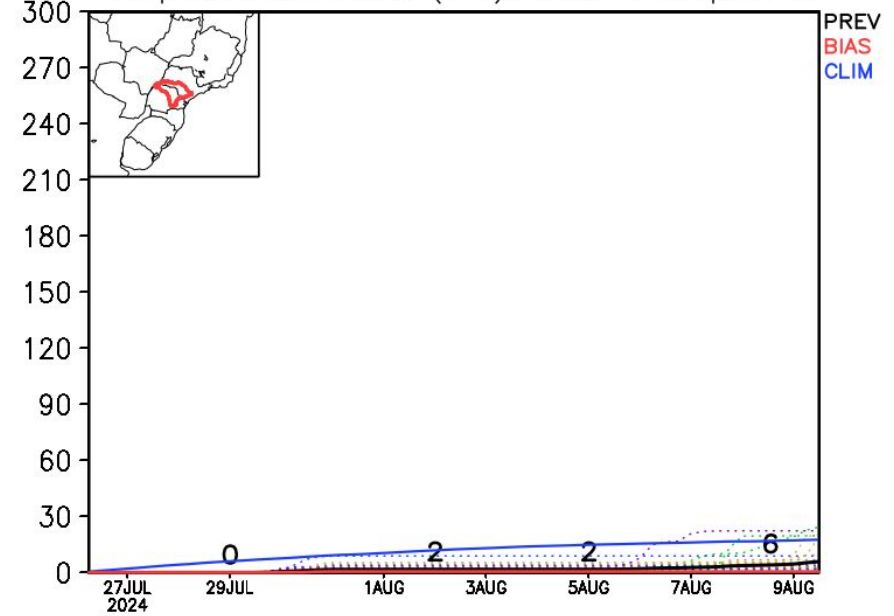


# Previsão para a bacia do rio Paranapanema

GEFS\_BC / Bacia do Rio Paranapanema  
Prec. acumulada com correcao de vies em 14 dias (mm)  
Previsao das 00Z dia 26/07/2024

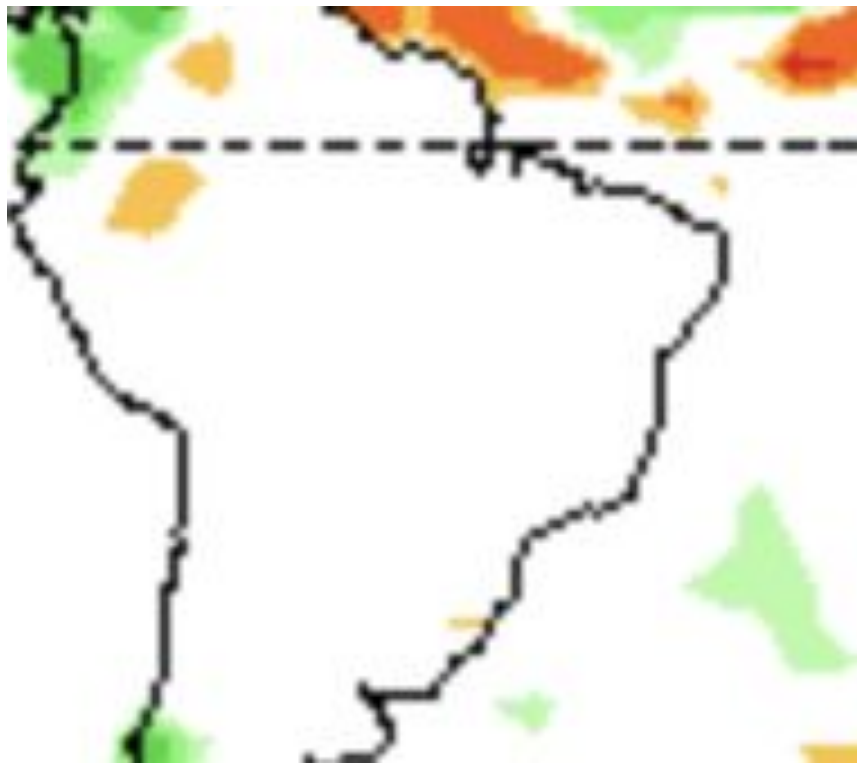


Precipitacao acumulada (mm): Bacia Paranapanema

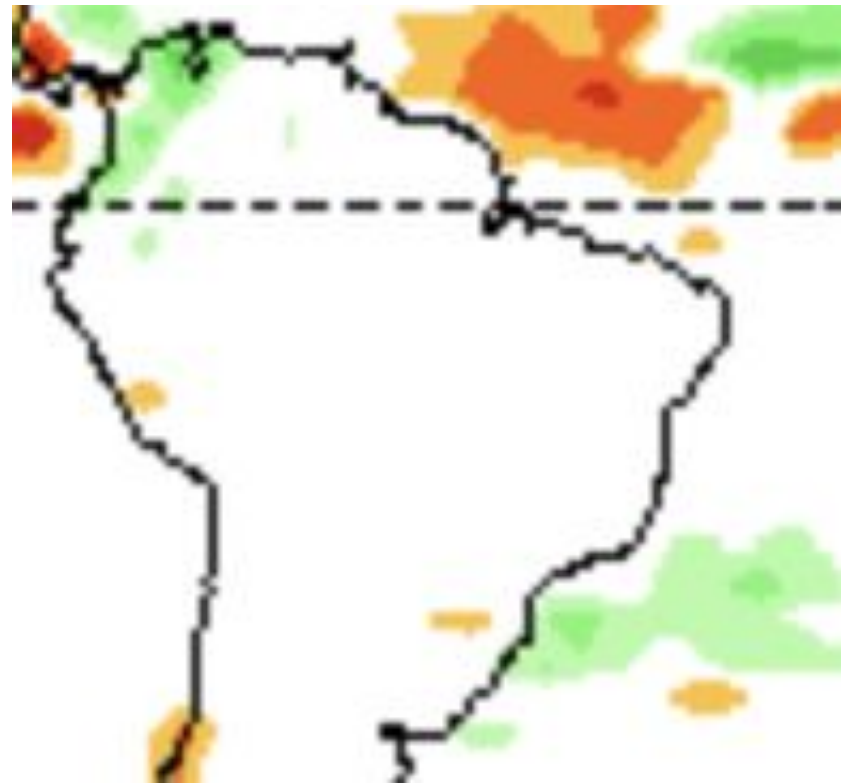


# Tendência 3a e 4a semanas

09 - 15 de AGOSTO

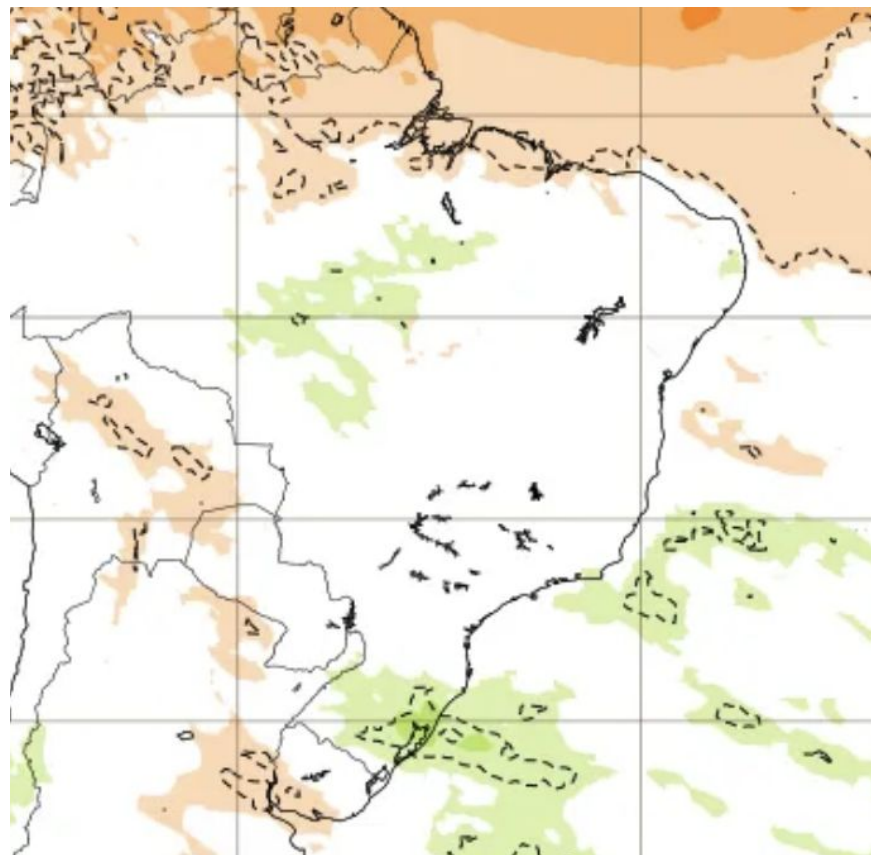


16 - 22 de AGOSTO

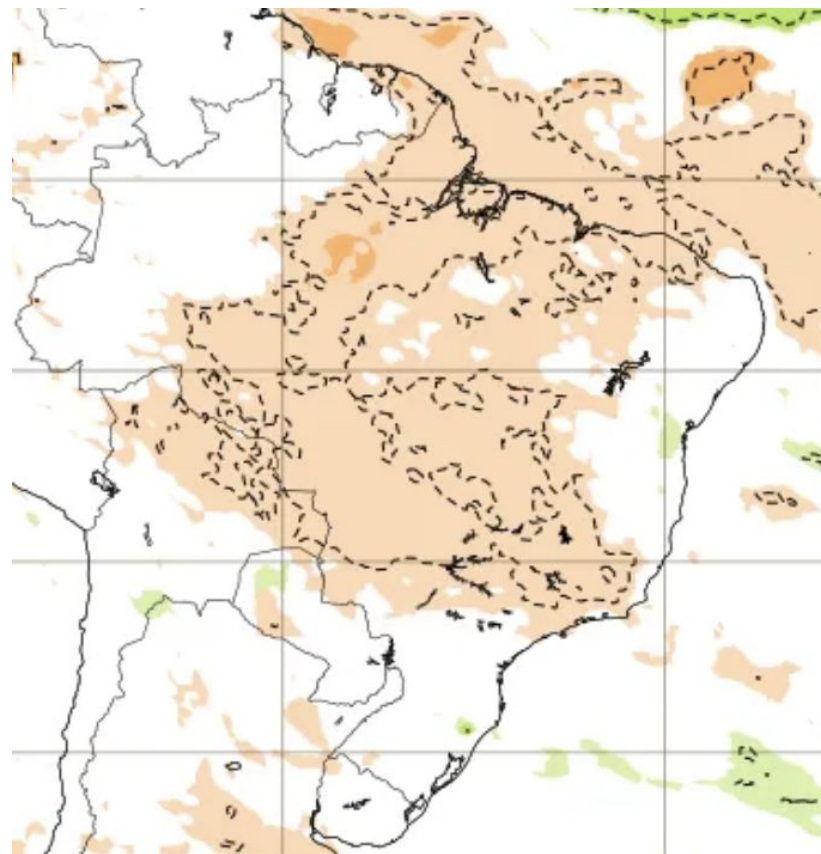


# Tendência para 3ª e 4ª semanas

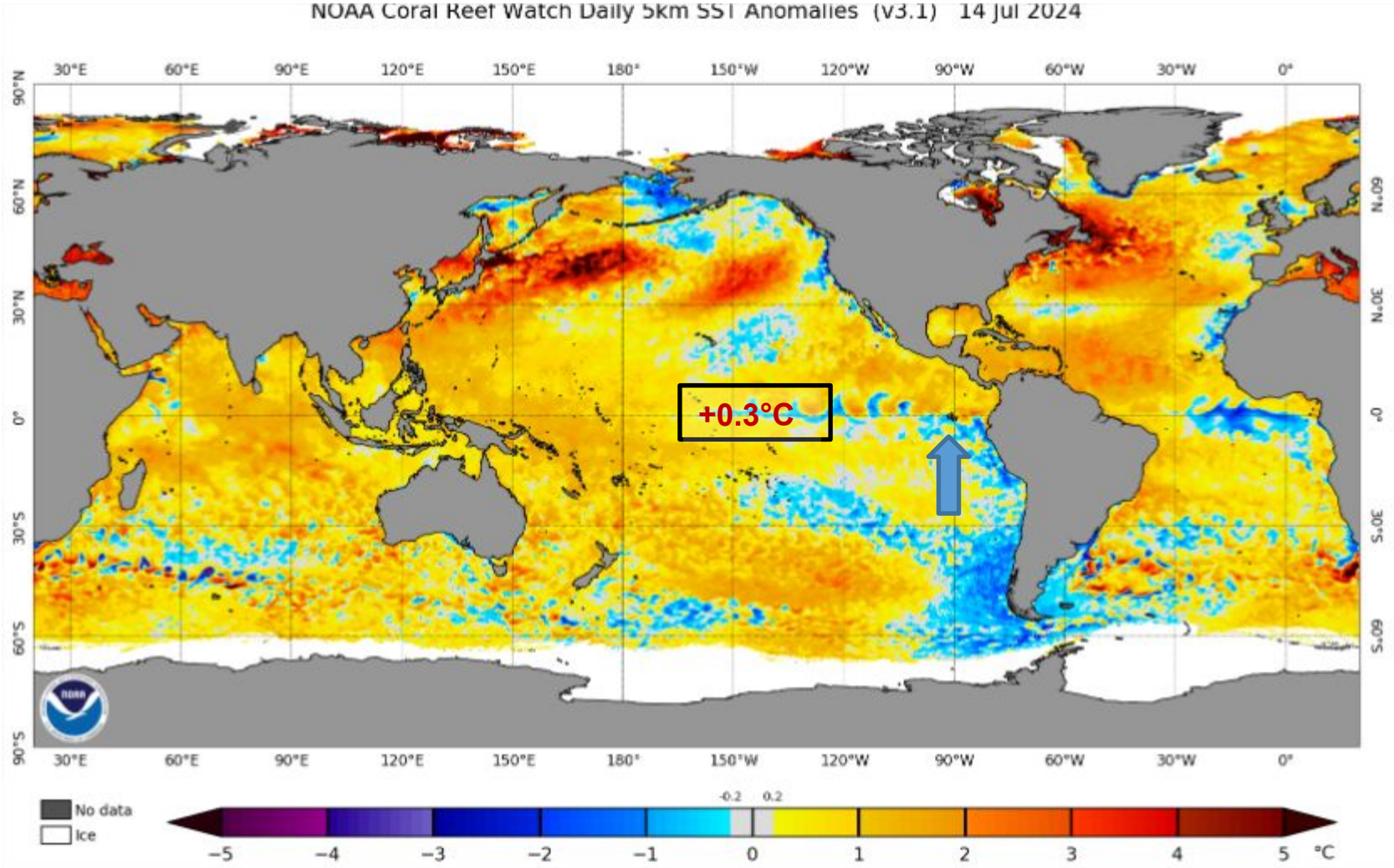
12 - 18 de AGOSTO



19 - 25 de AGOSTO

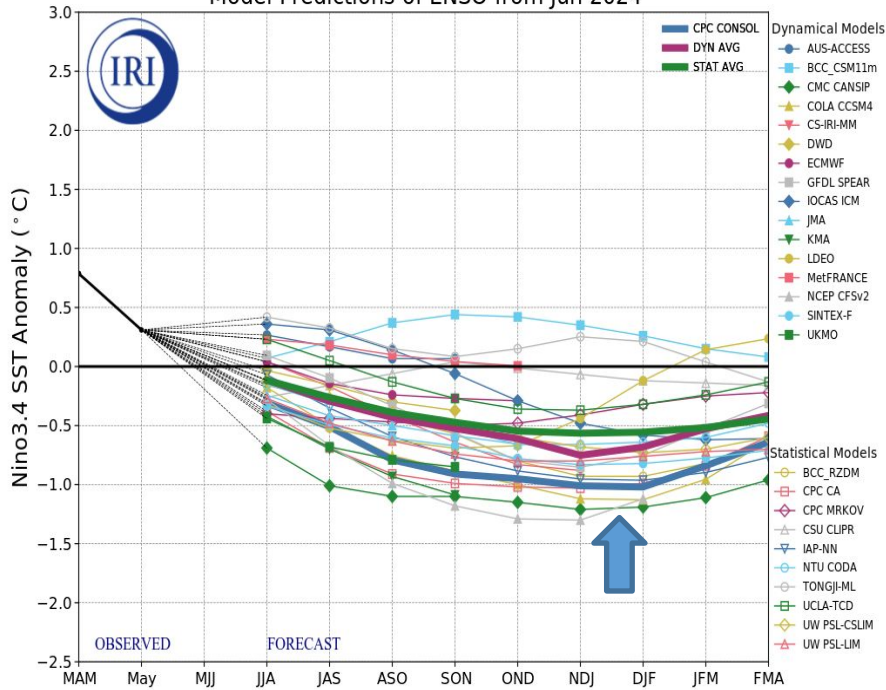


# Status Atual: La Niña Watch

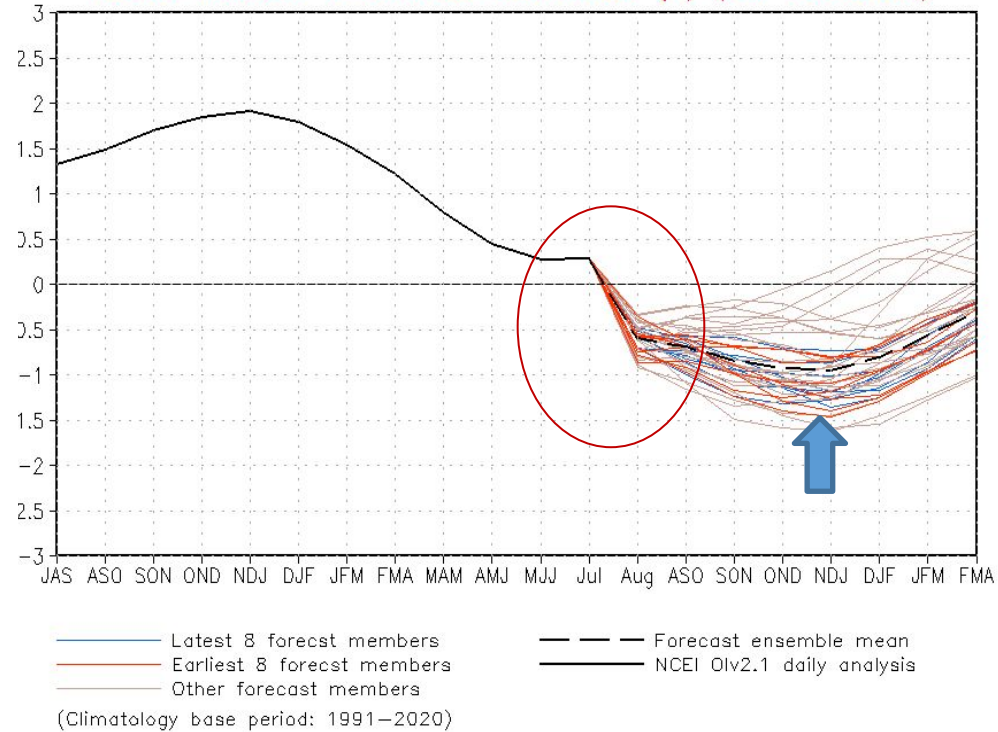


# Previsão do “ENSO”

Model Predictions of ENSO from Jun 2024



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

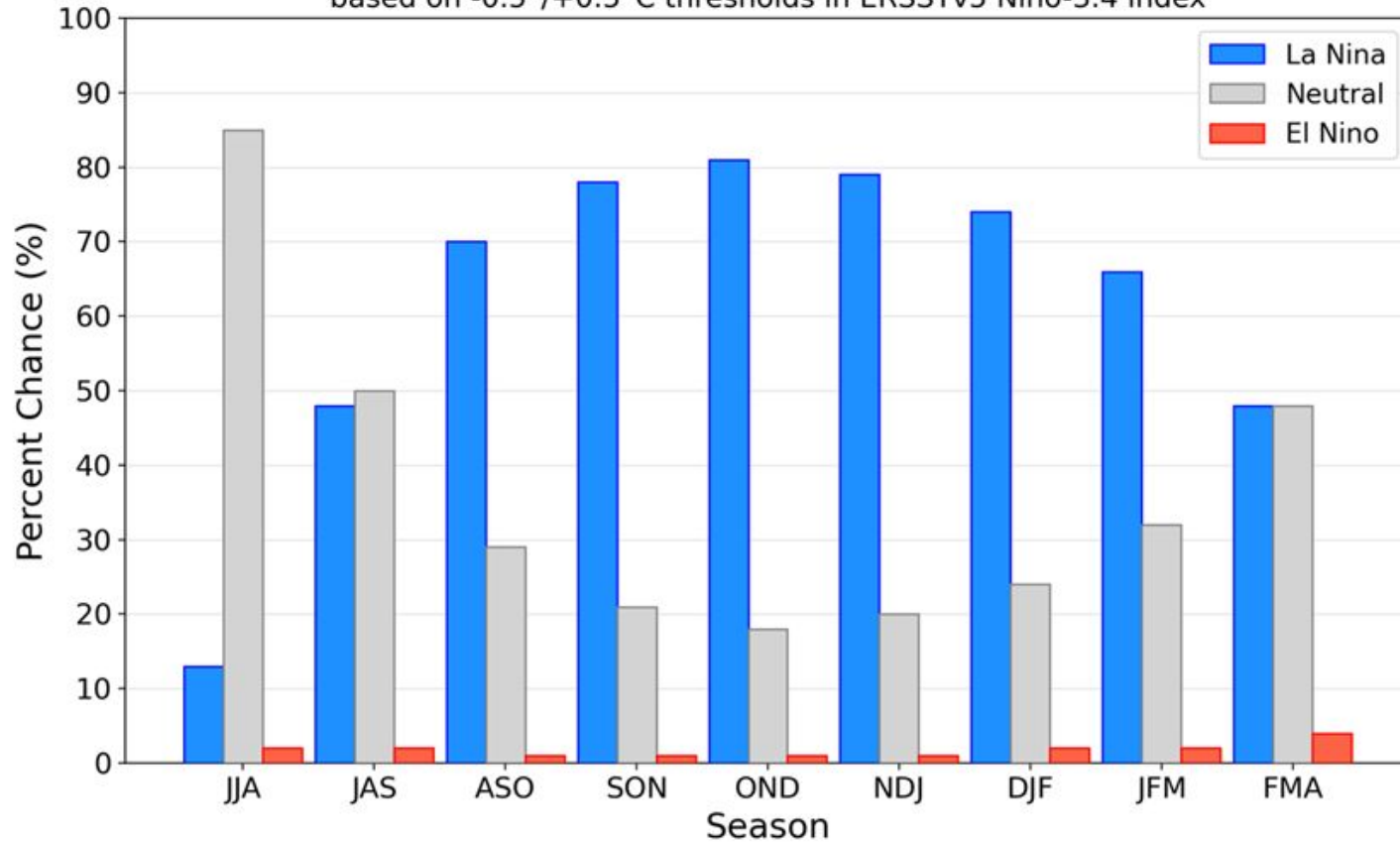


Atualizado 15 de julho

# Previsão do “ENSO”

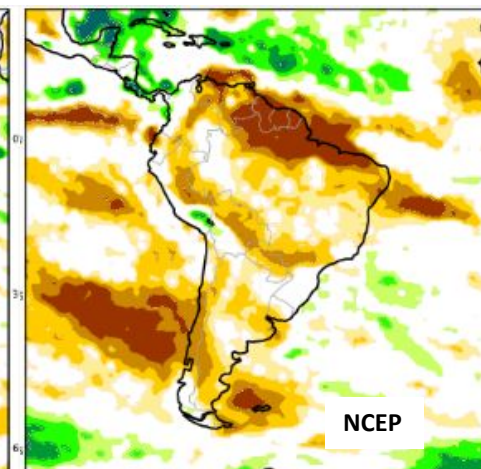
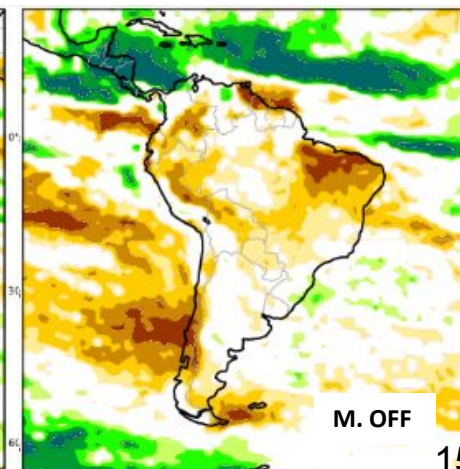
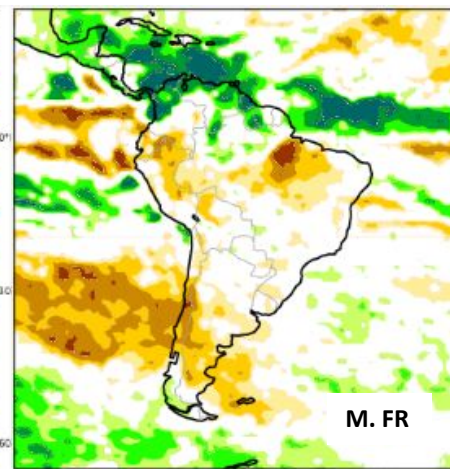
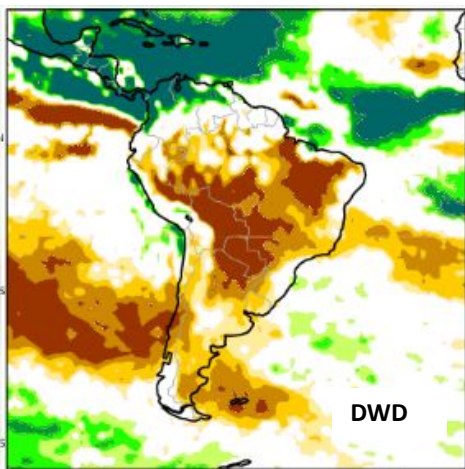
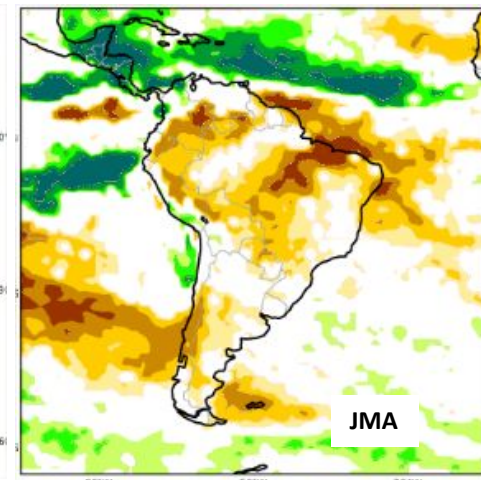
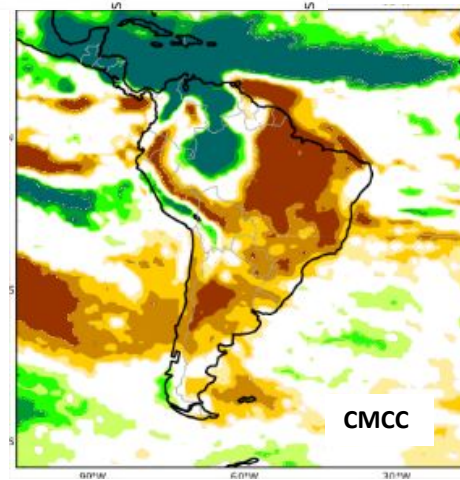
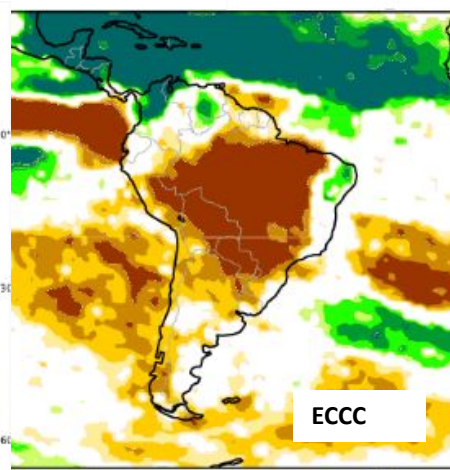
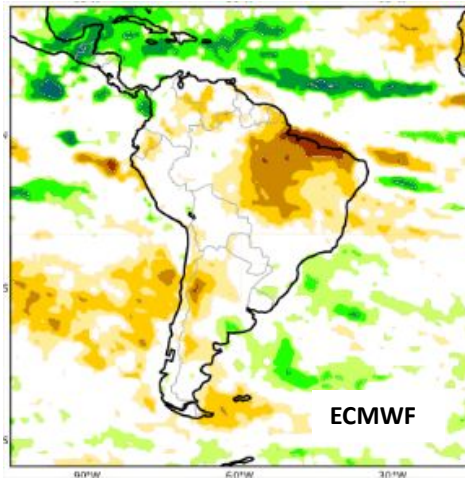
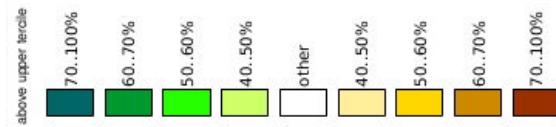
## Official NOAA CPC ENSO Probabilities (issued July 2024)

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



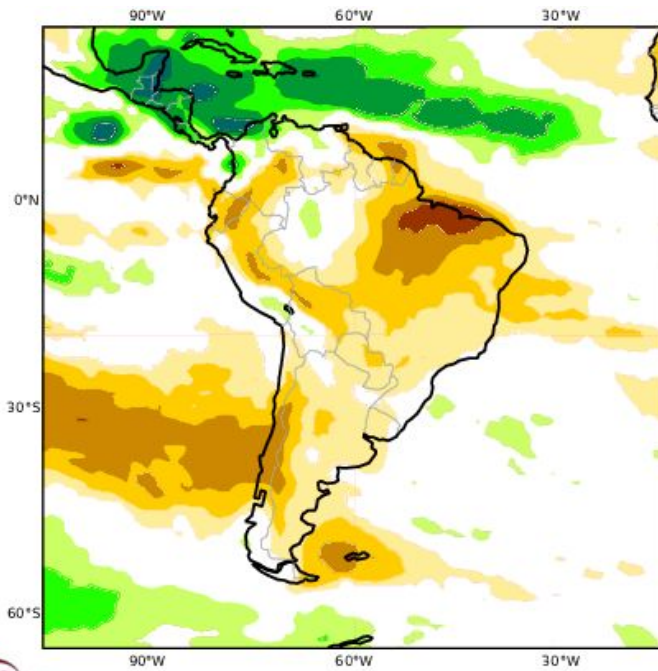
# Previsão Sazonal de Chuva

## Agosto-Setembro-Outubro

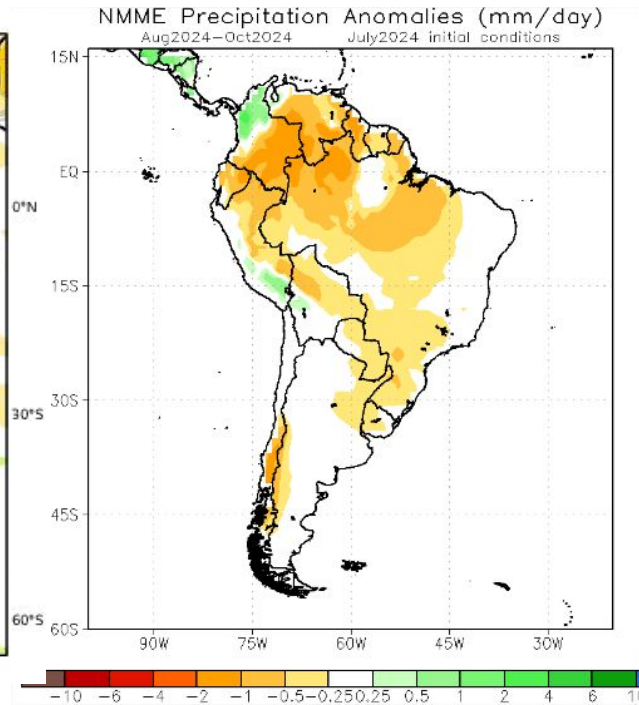


# Previsão Sazonal de Chuva Multi-Modelo

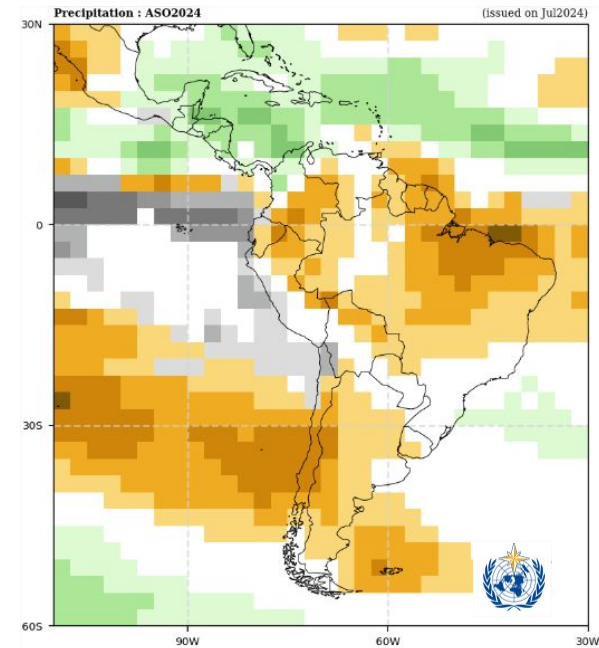
## Agosto-Setembro-Outubro



Modelos Europeus



Modelos Americanos



Modelos da Organização Meteorológica Mundial