

Monitoramento e Previsões de chuva para a Bacia do Rio Paranapanema

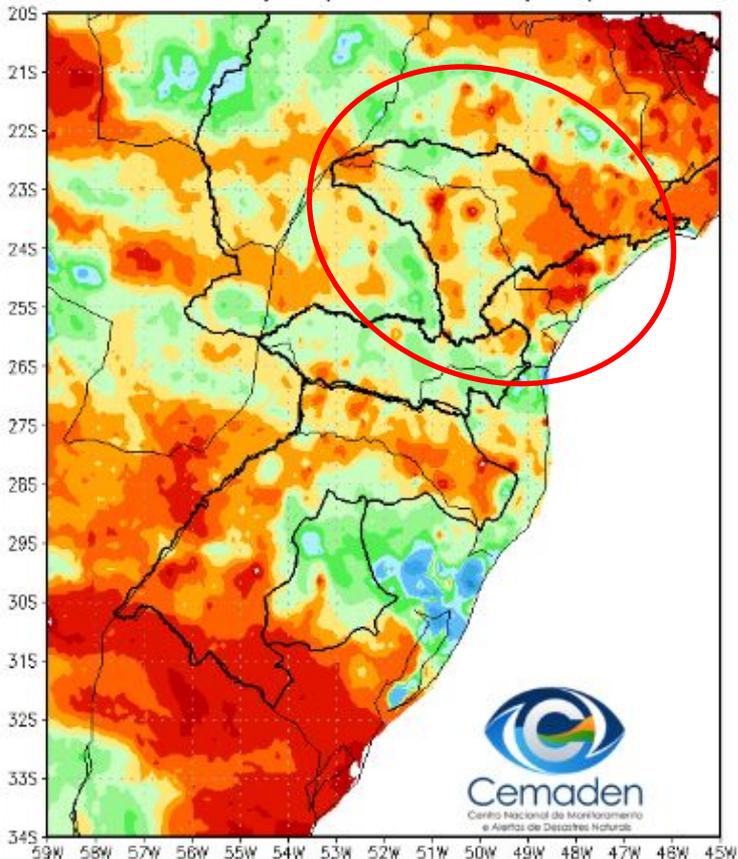


Cemaden
Centro Nacional de Monitoramento
e Alertas de Desastres Naturais

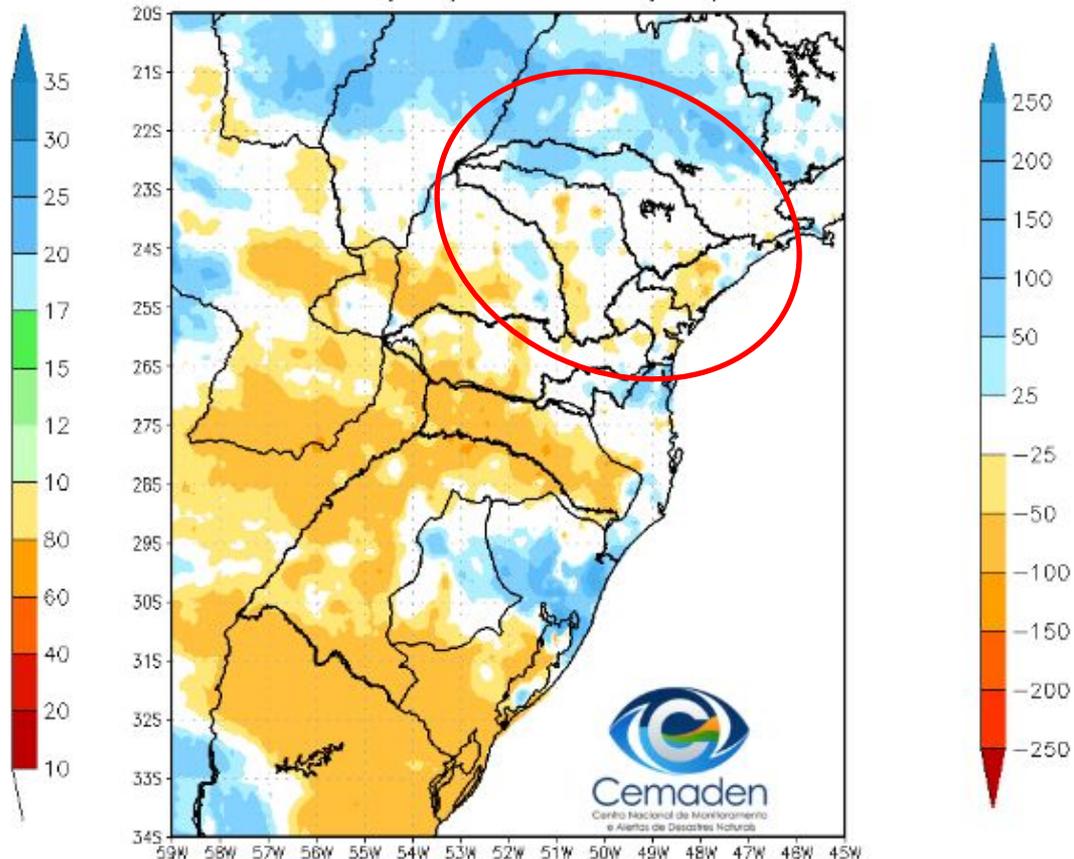
20 de Junho de 2023

Precipitação acumulada nos últimos 30 dias

Precipitação Acumulada (mm) A.S.
Período: 20/05/2023 a 19/06/2023

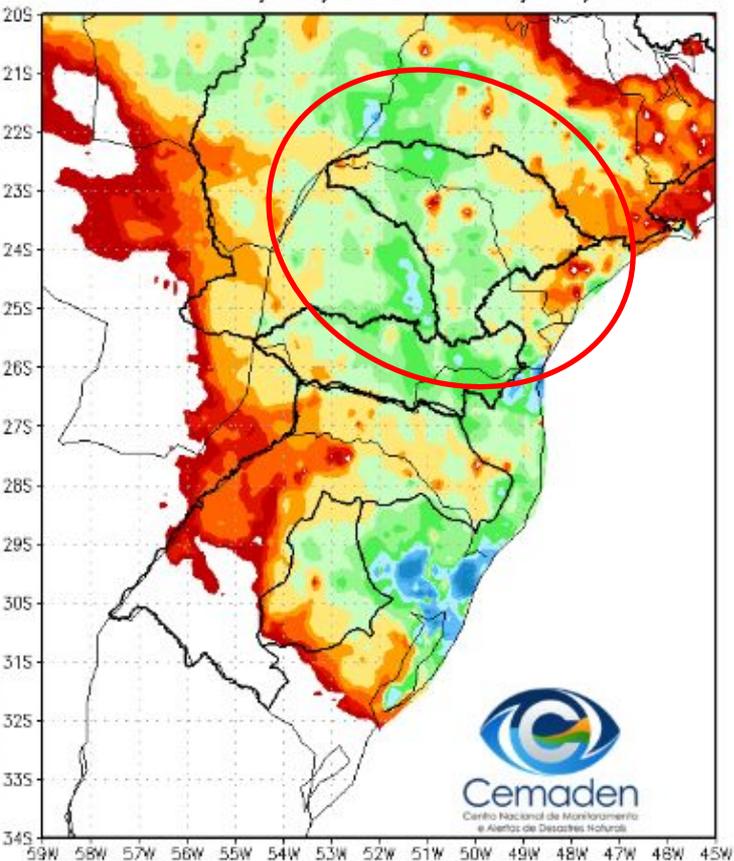


Anomalia de Precipitação (mm) A.S.
Período: 20/05/2023 a 19/06/2023

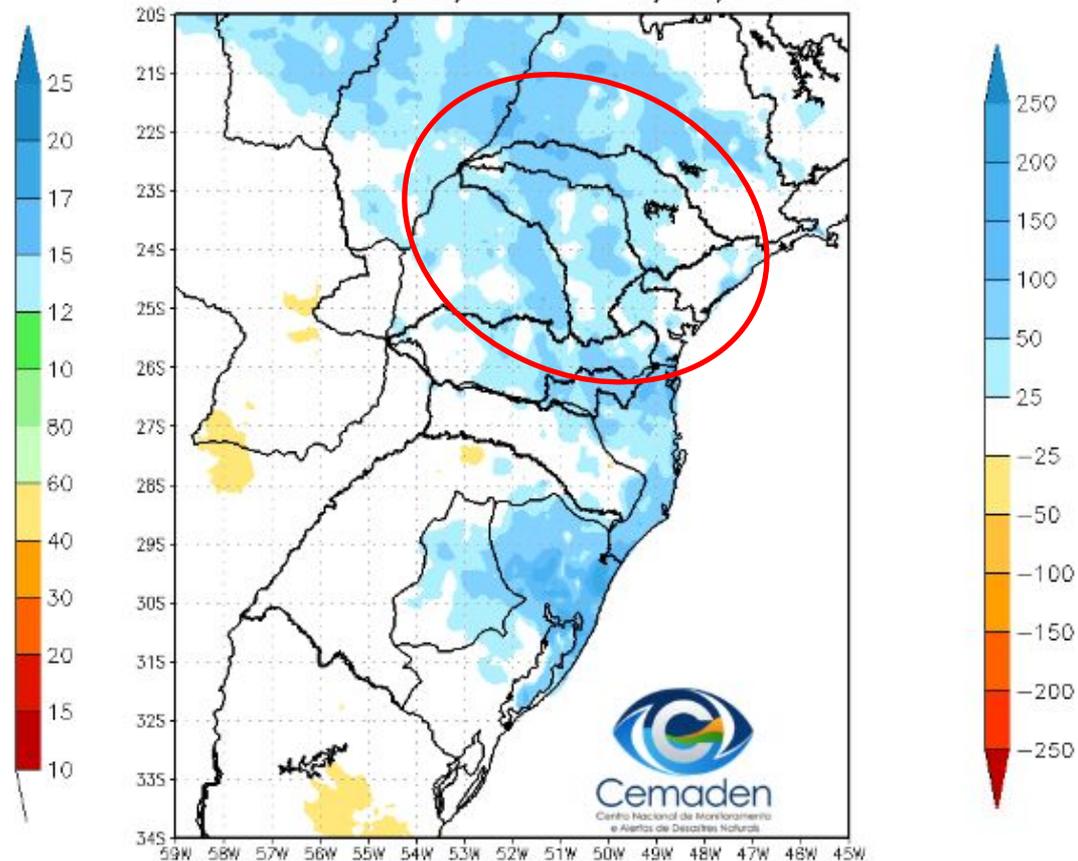


Precipitação acumulada nos últimos 7 dias

Precipitação Acumulada (mm) A.S.
Período: 12/06/2023 a 19/06/2023

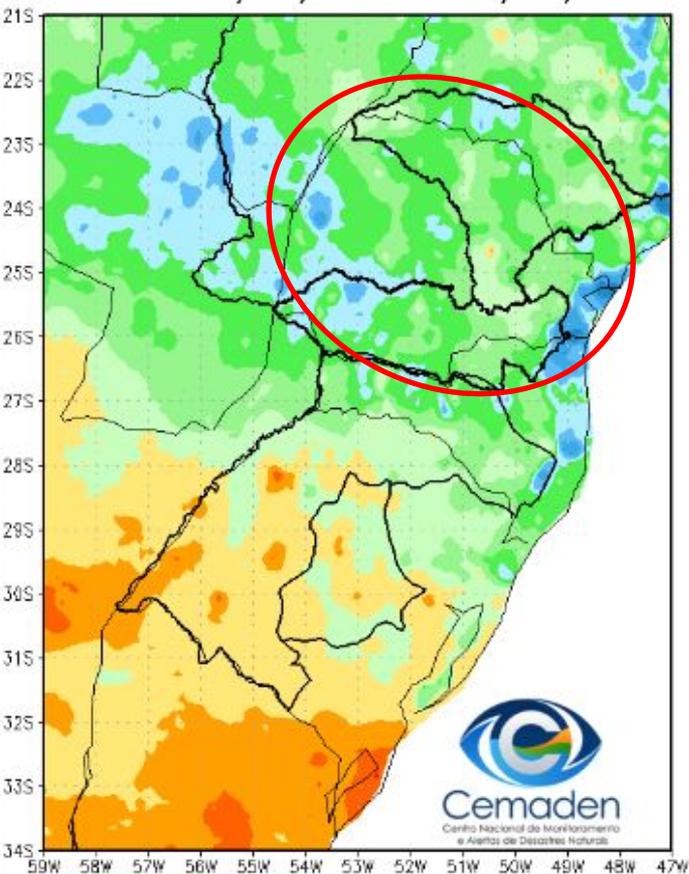


Anomalia de Precipitação (mm) A.S.
Período: 12/06/2023 a 19/06/2023

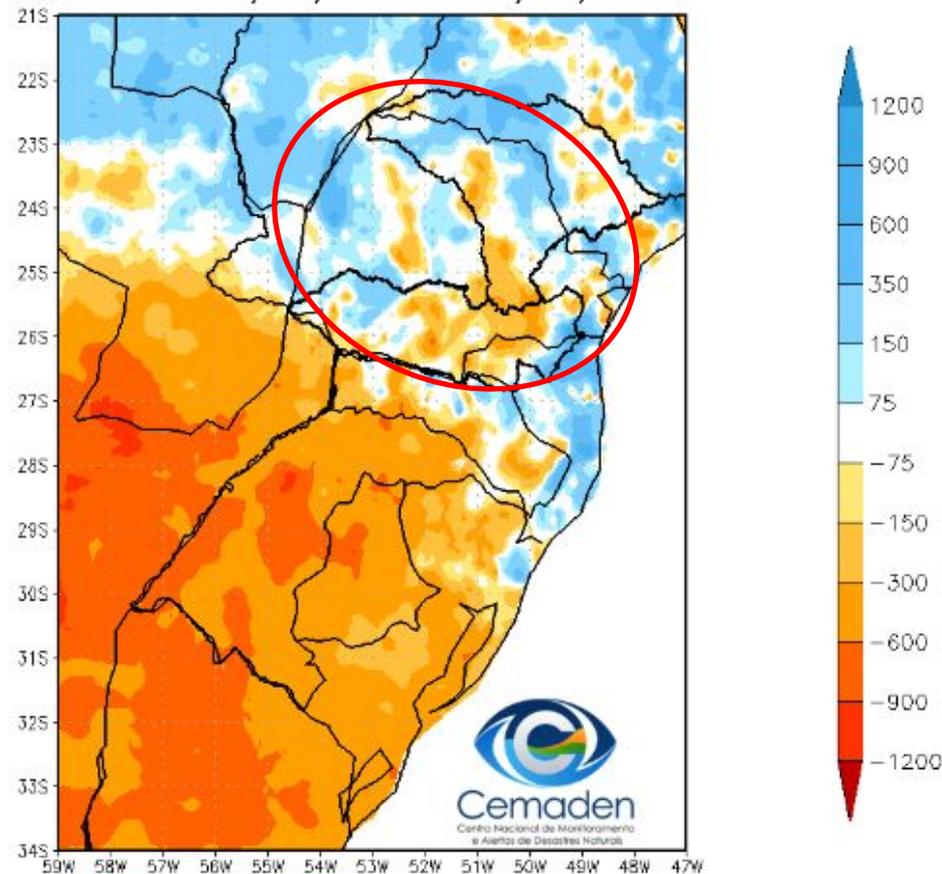


Precipitação acumulada Ano Hidrológico

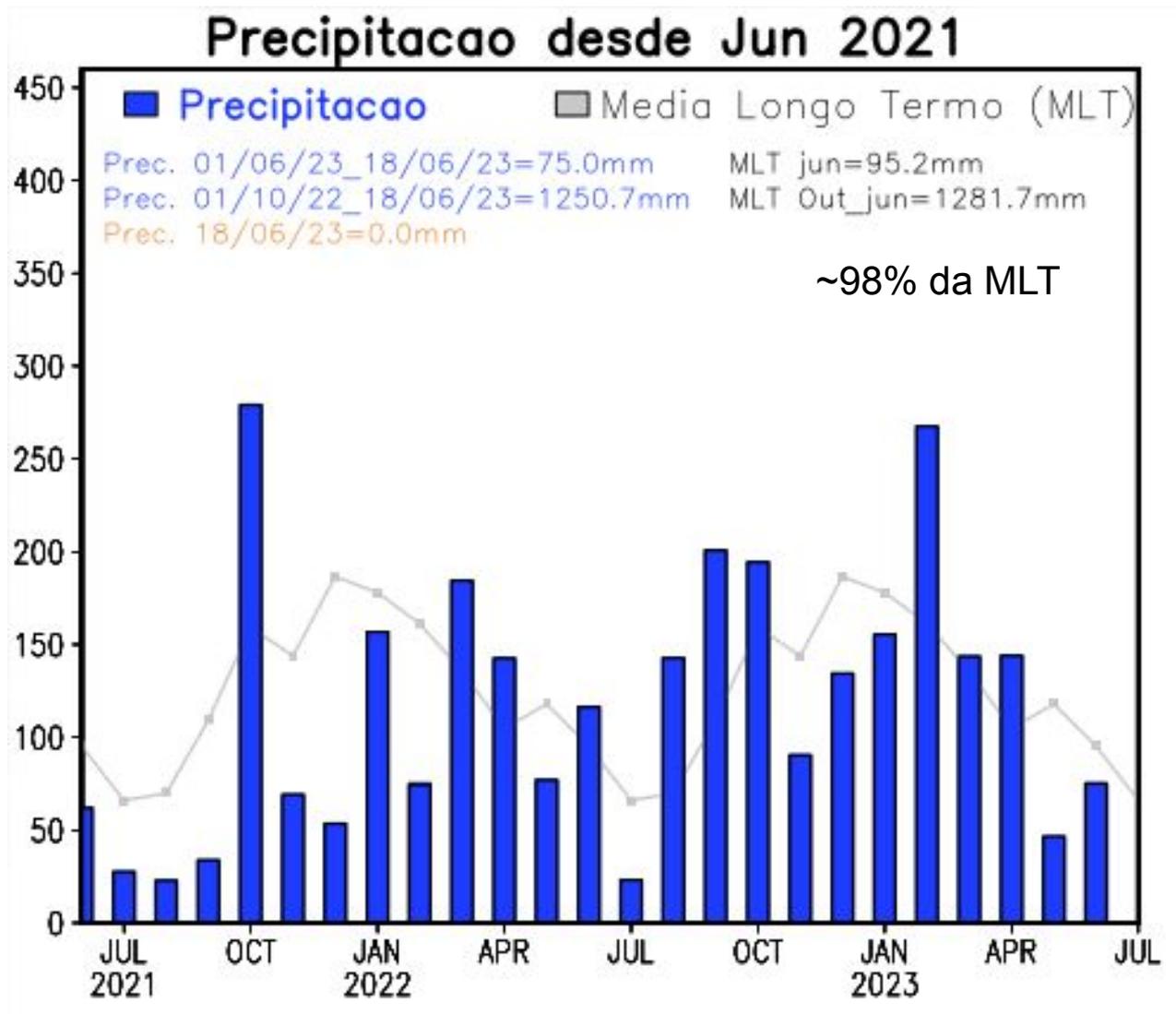
Precipitação Acumulada (mm) A.S.
Período: 01/10/2022 a 19/06/2023



Anomalia de Precipitação (mm) A.S.
Período: 01/10/2022 a 19/06/2023

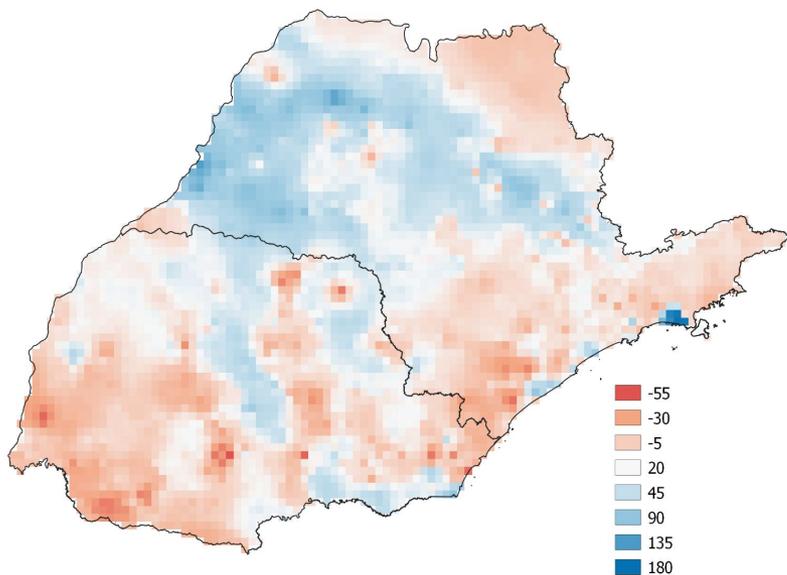


Evolução temporal da precipitação

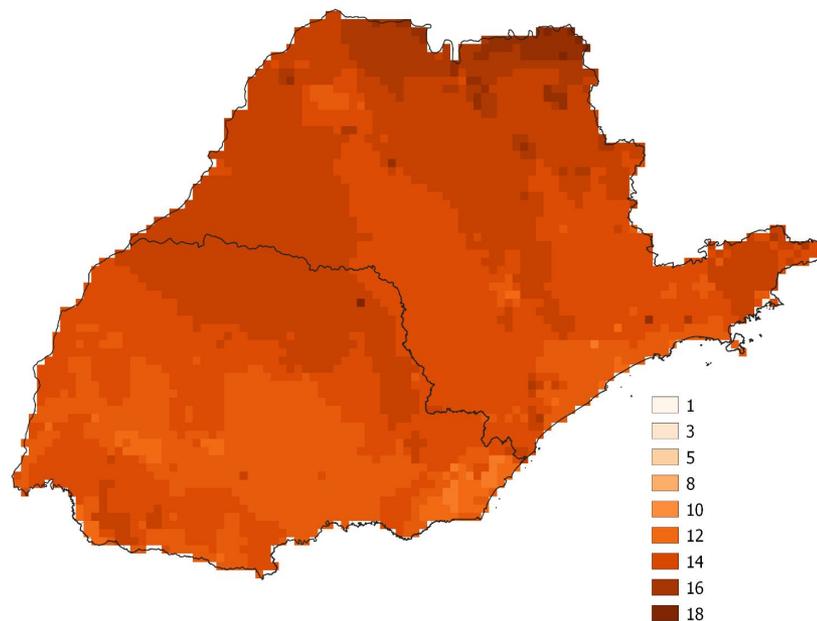


PRECIPITAÇÃO: JUNHO 2023 (ATÉ 18/06)

Anomalia (mm)

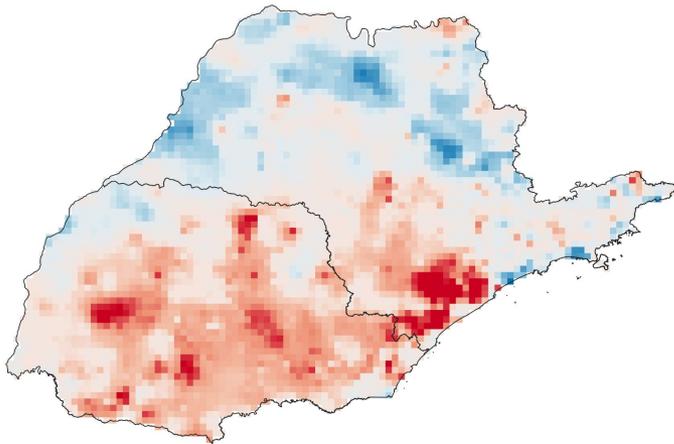


Total de dias sem chuva

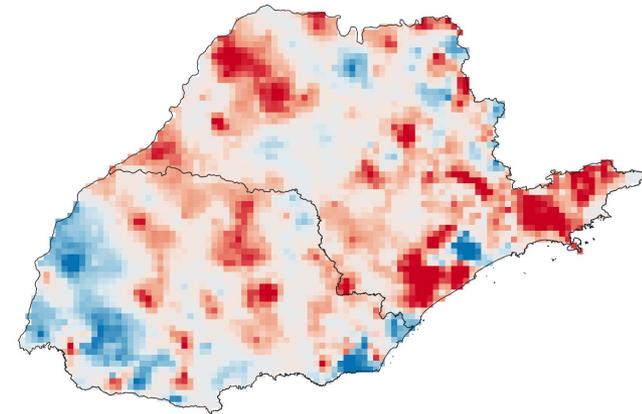


SPI: JUNHO 2023

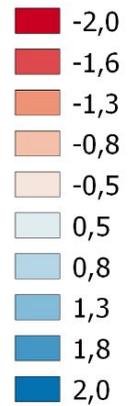
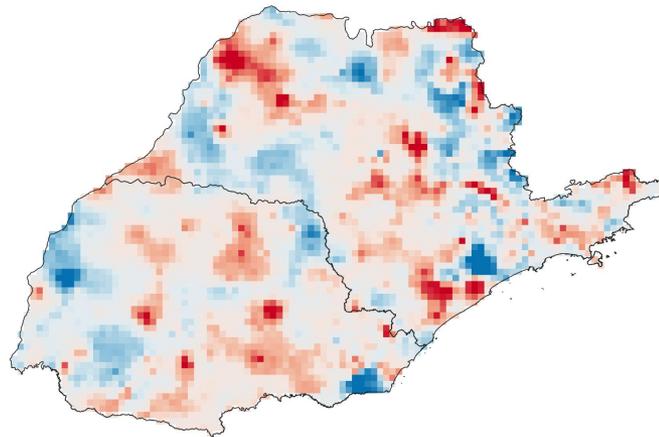
SPI03



SPI24



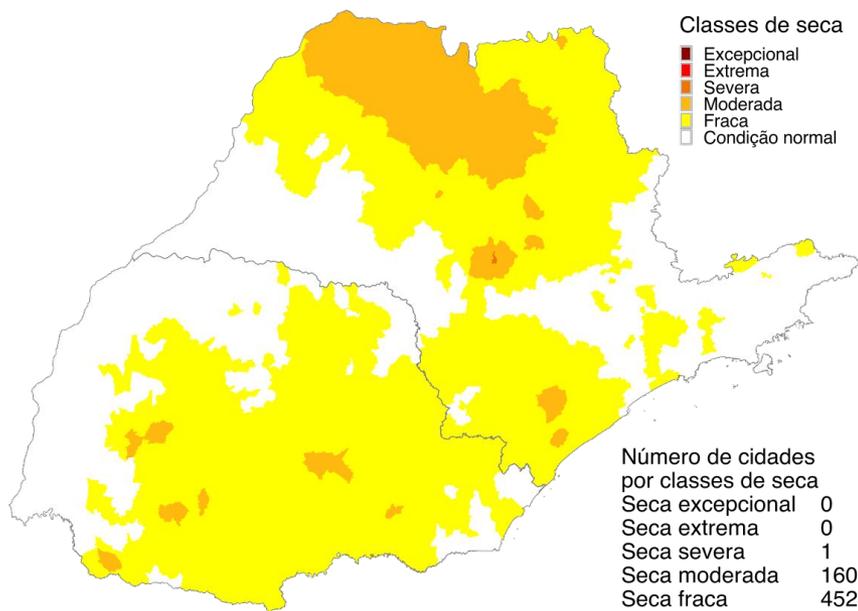
SPI12



ÍNDICE INTEGRADO DE SECA - IIS

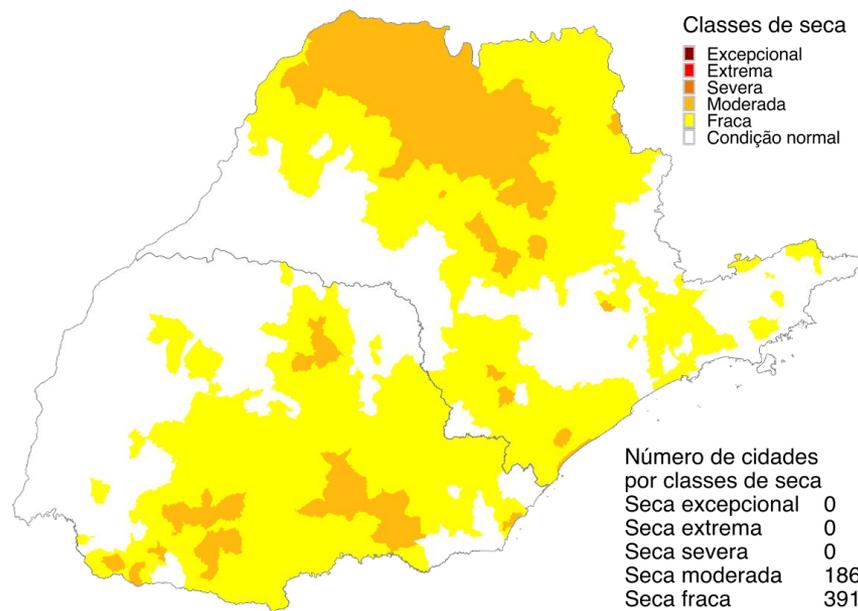
(SPI3 E 6 + VHI + AUS): JUNHO/2023

IIS 3 MESES



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

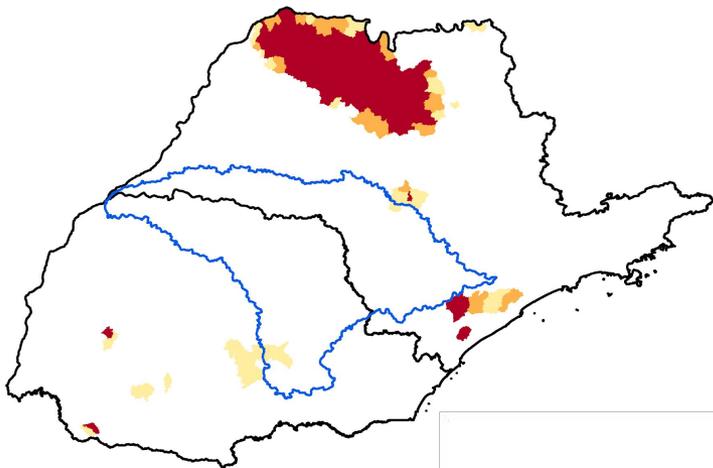
IIS 6 MESES



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

ÁREAS DE PASTAGENS E AGRÍCOLAS AFETADAS PELA SECA

JUNHO (PARCIAL)/23



UF	40 a 60%	60 - 80%	> 80%
PR	7		3
SP	16	16	108

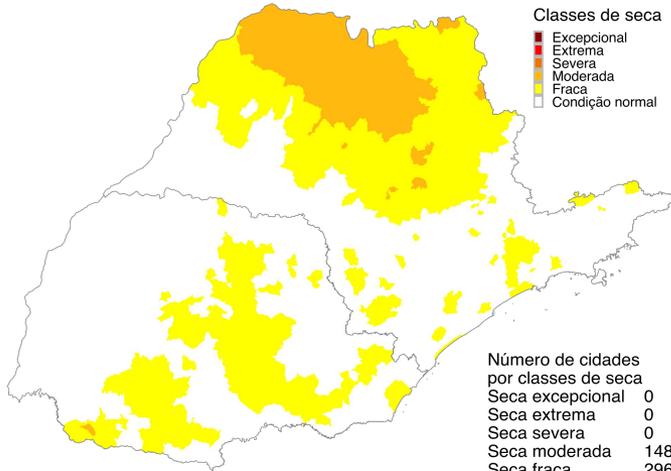
	40 a 60%	60 - 80%	> 80%	Imóveis Rurais Impactados > 40%
Paraná				
Minifundio	9838 (4%)	-	880 (*)	10718 (4%)
Pequena Propriedade	4760 (4%)	-	428 (*)	5188 (4%)
Media Propriedade	614 (2%)	-	56 (*)	670 (2%)
São Paulo				
Minifundio	3743 (2%)	5021 (3%)	30269 (16%)	39033 (20%)
Pequena Propriedade	2480 (2%)	3329 (3%)	18587 (18%)	24396 (23%)
Media Propriedade	842 (2%)	1219 (3%)	5043 (14%)	7104 (19%)

(*) Porcentagem inferior a 1%.

Julho/23

CHUVA 40% ACIMA DA MÉDIA

CHUVA 40% ABAIXO DA MÉDIA



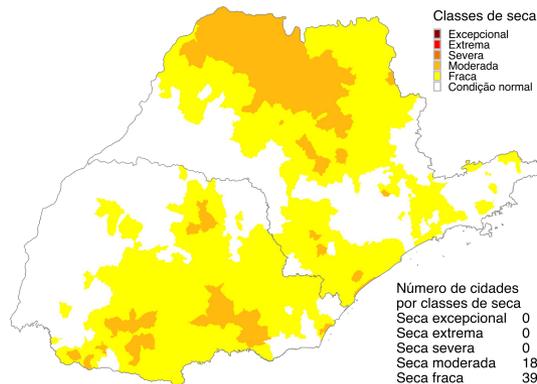
Julho 2023
Índice Integrado de Seca (SPI6, VHI, US)
Cenário: Chuva + 40%
Dados: CPTEC/INPE - NOAA - NASA / Preparação: Cemaden/MCTI

IIS

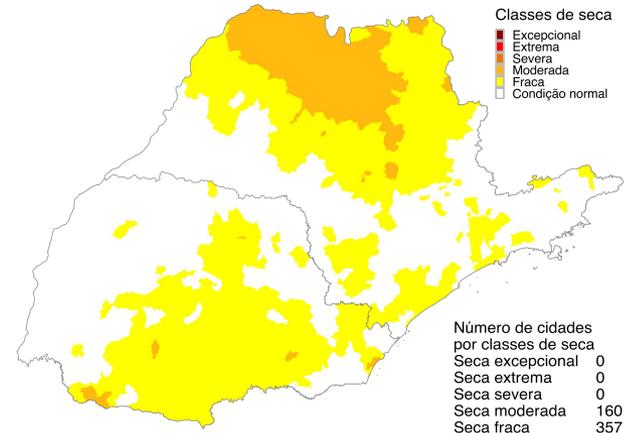
- Seca Excepcional
- Seca Extrema
- Seca Severa
- Seca Moderada
- Seca Fraca
- Normal

IIS OBSERVADO (IIS6)

Junho/23

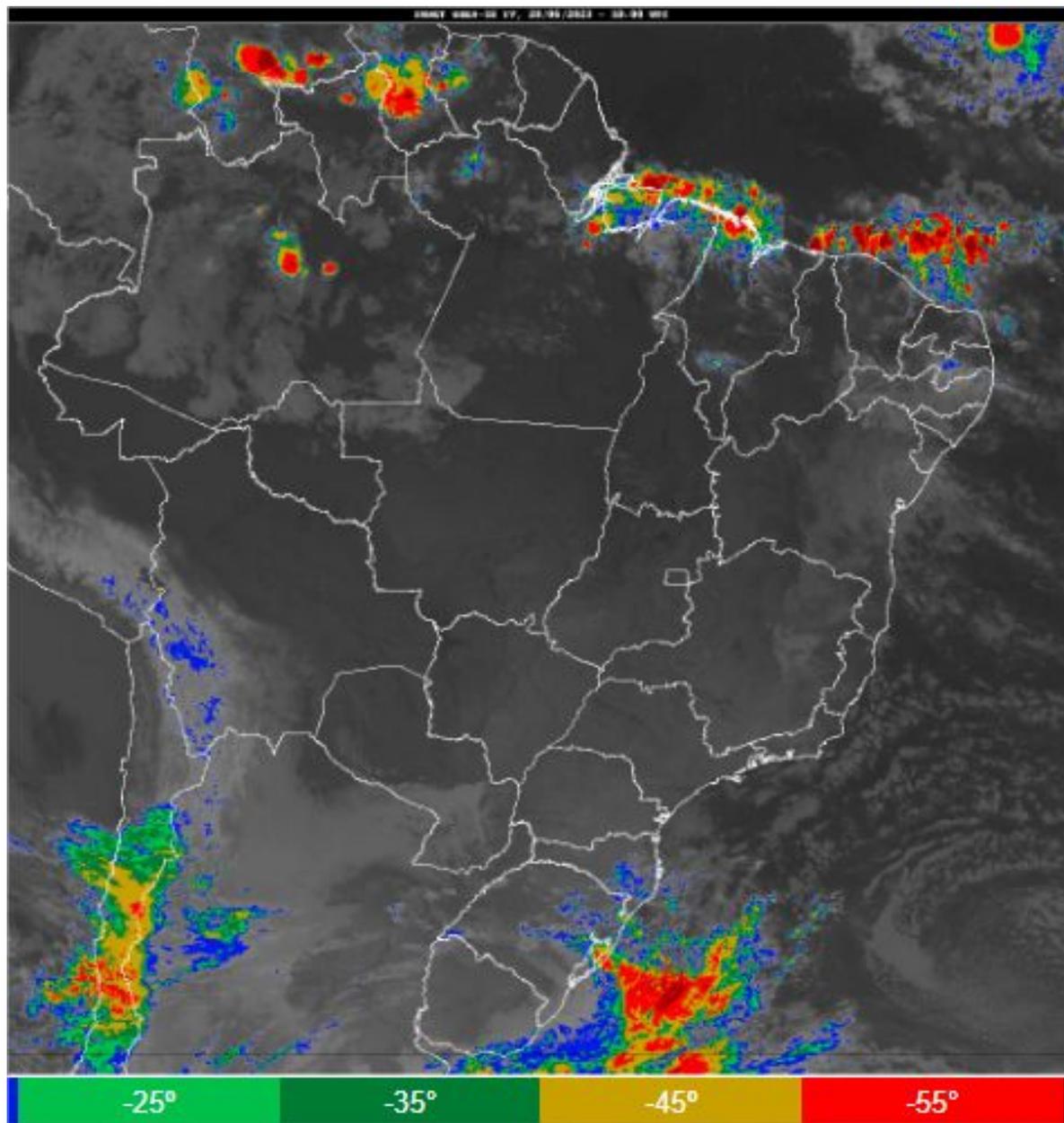


Junho 2023
Índice Integrado de Seca (SPI6, VHI, US)
Dados: CPTEC/INPE - NOAA - NASA / Preparação: Cemaden/MCTI



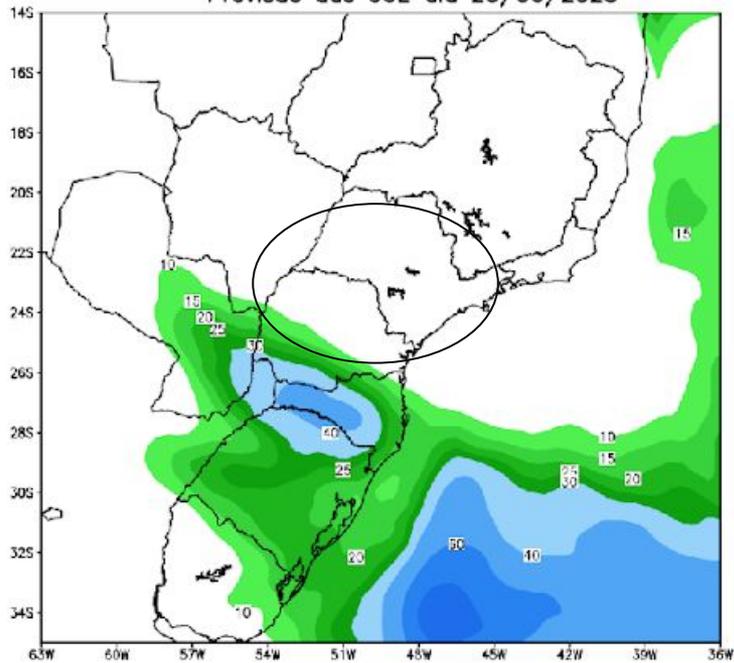
Julho 2023
Índice Integrado de Seca (SPI6, VHI, AUS)
Cenário: Chuva - 40%
Dados: CPTEC/INPE - NOAA - NASA / Preparação: Cemaden/MCTI

Situação meteorológica atual

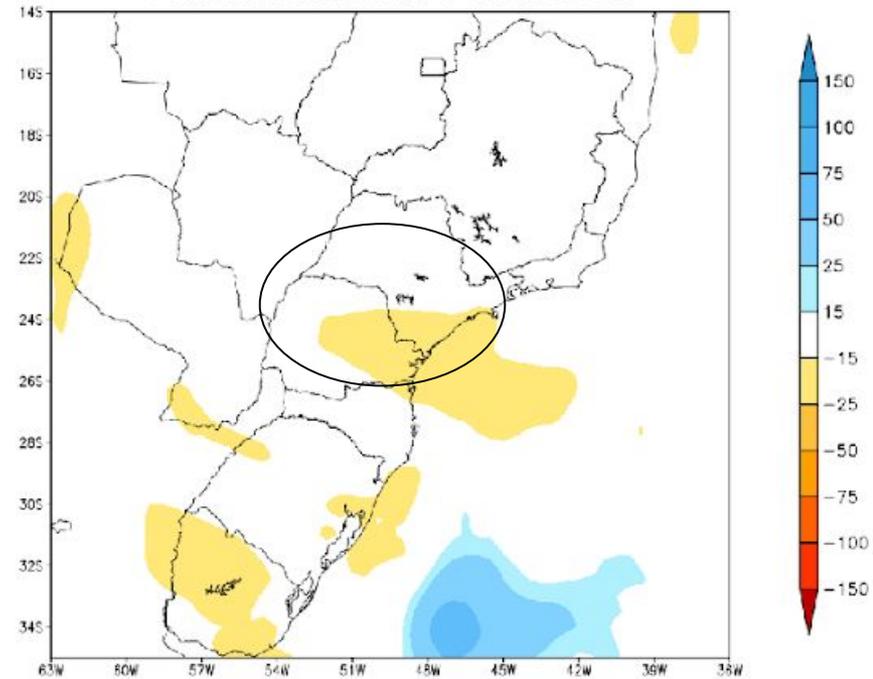


Previsão de chuva próximos 7 dias

GEFS / BRASIL_SUL
Precipitacao acumulada 1aSem (mm)
Previsao das 00Z dia 20/06/2023



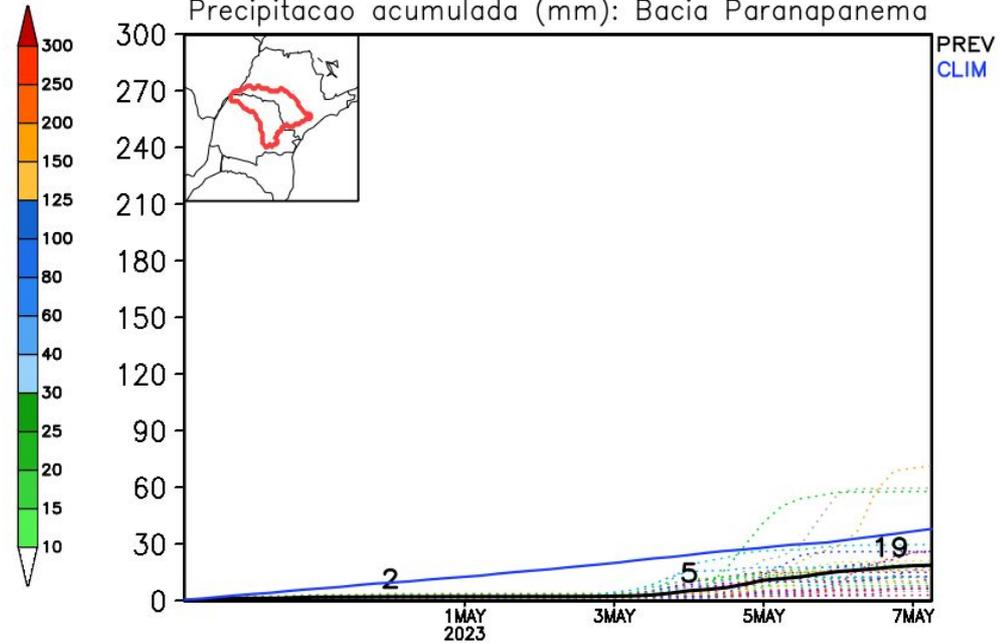
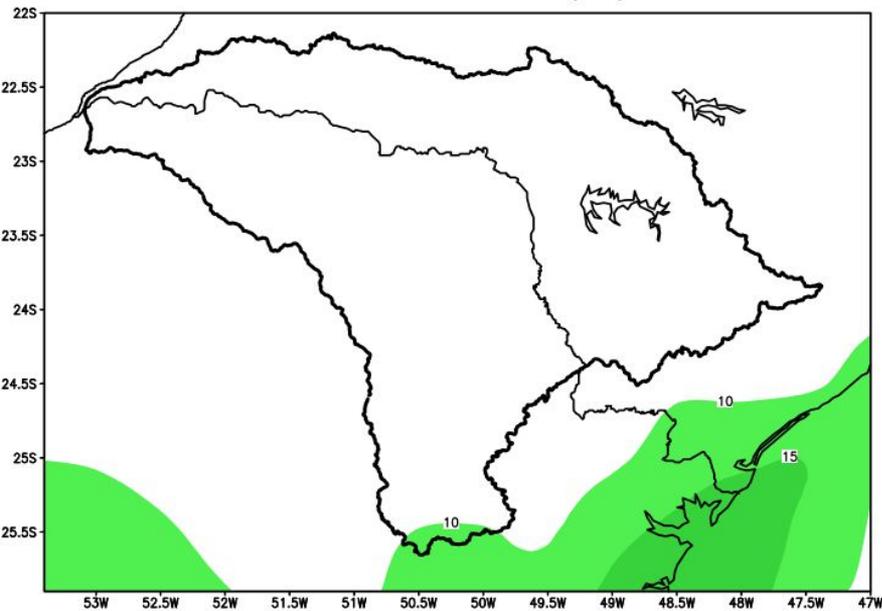
Anomalia de Precipitacao BR SUL (mm)
Periodo: 2023062000 a 2023062700



MODELO GFS

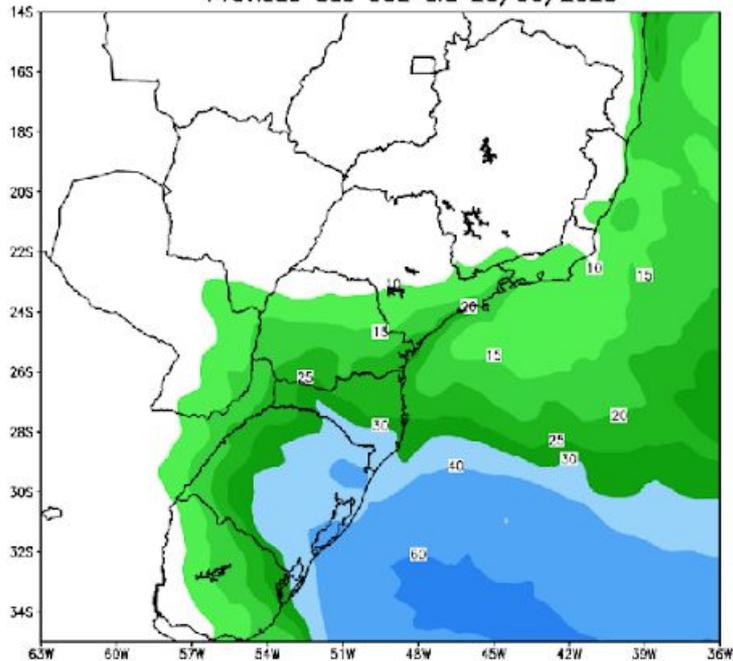
Previsão para a bacia do rio Paranapanema

GEFS / Bacia do Rio Paranapanema
Precipitação acumulada em 7 dias (mm)
Previsão das 00Z dia 27/04/2023

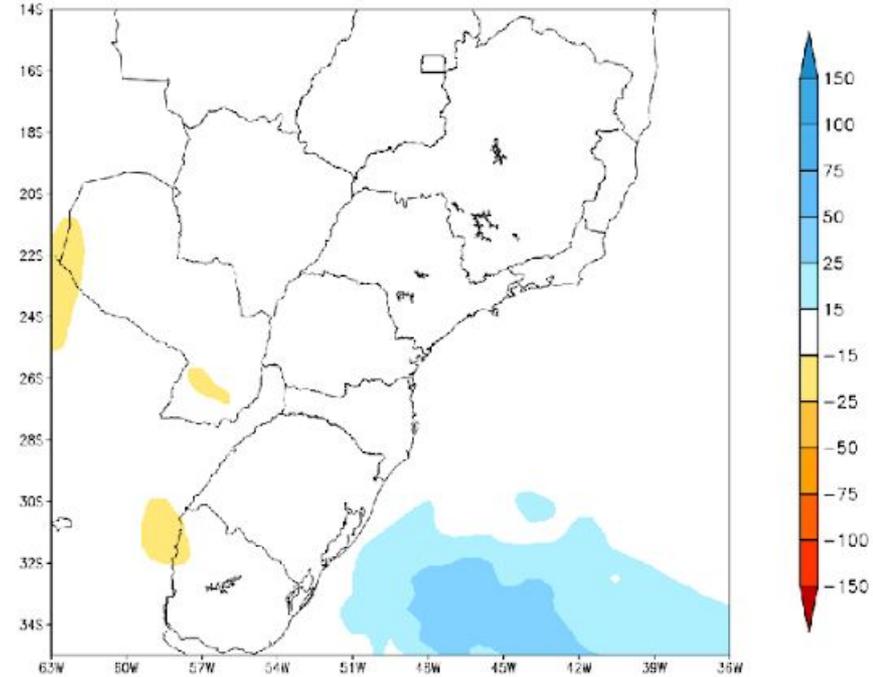


Tendência para a segunda semana

GEFS / BRASIL_SUL
Precipitacao acumulada 2aSem (mm)
Previsao das 00Z dia 20/06/2023



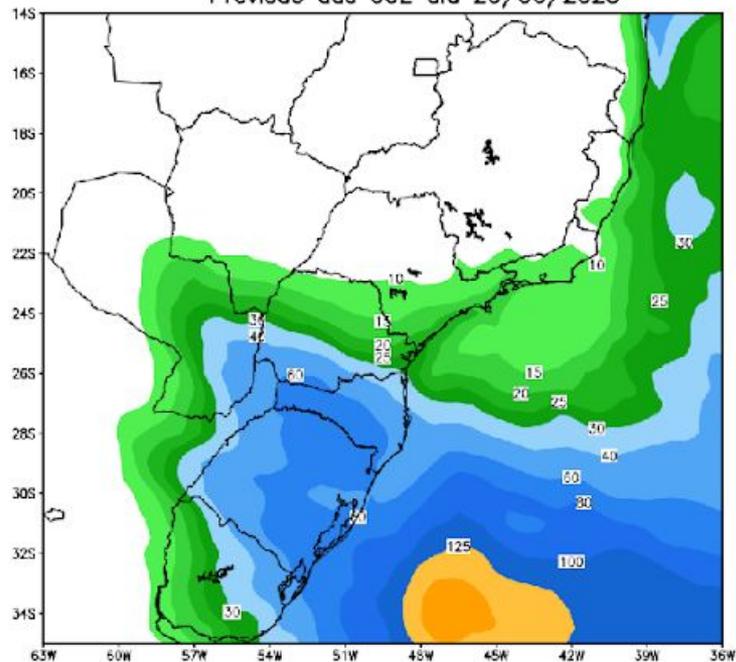
Anomalia de Precipitacao BR_SUL (mm)
Periodo: 2023062800 a 2023070400



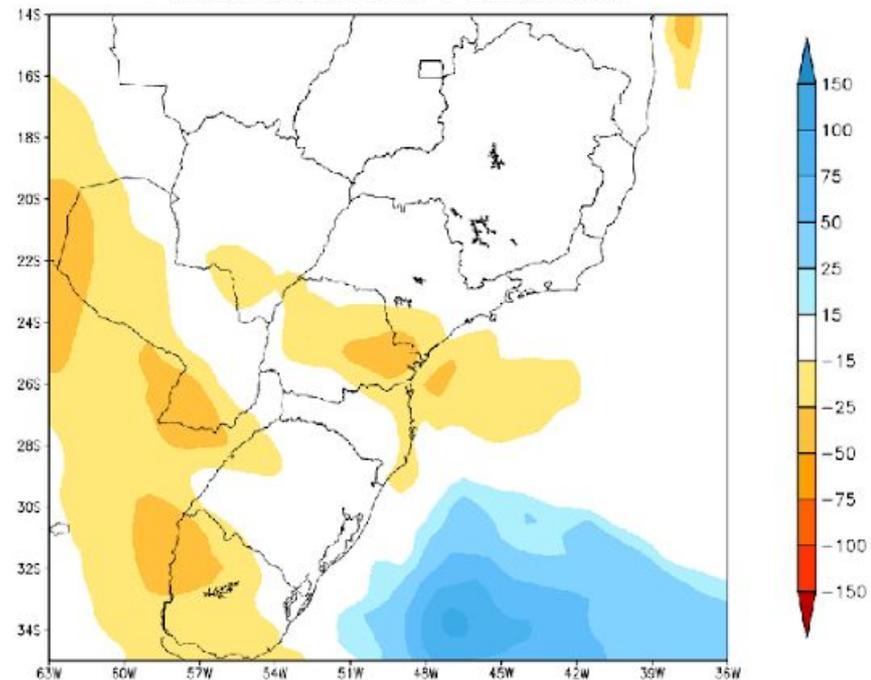
MODELO GFS

Tendência para as duas próximas semanas

GEFS / BRASIL_SUL
Precipitacao acumulada 14 dias (mm)
Previsao das 00Z dia 20/06/2023



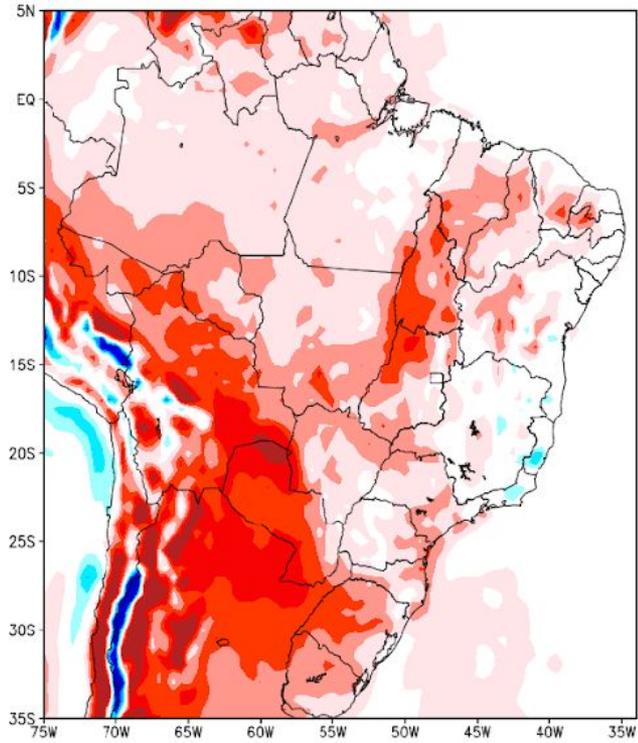
Anomalia de Precipitacao BR SUL (mm)
Periodo: 2023062000 a 2023070400



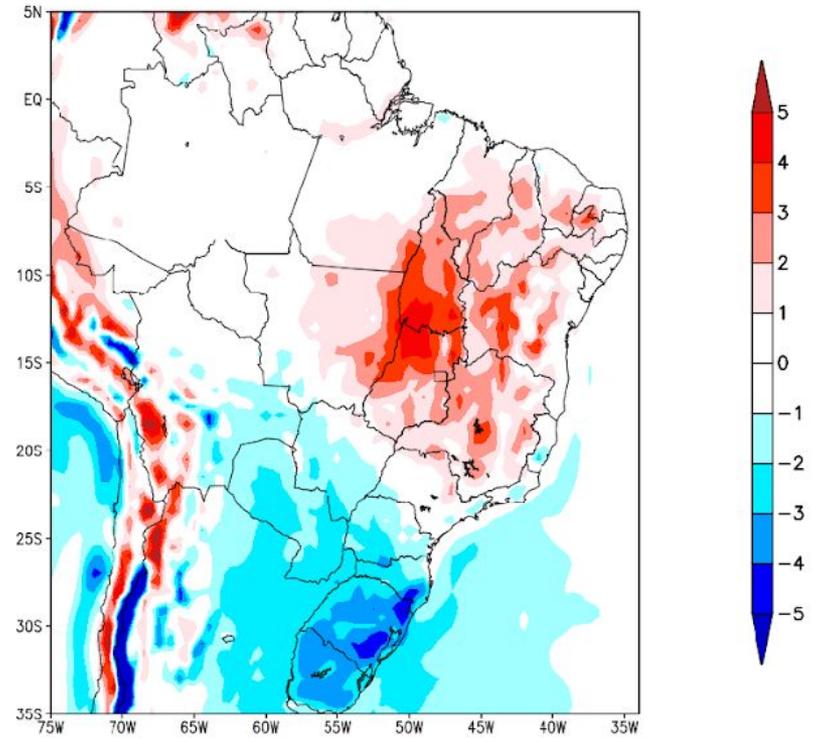
MODELO GFS

Previsão de Temperatura

Anomalia de Temperatura BR (C)
Período: 2023062000 a 2023062700



Anomalia de Temperatura BR (C)
Período: 2023062800 a 2023070400

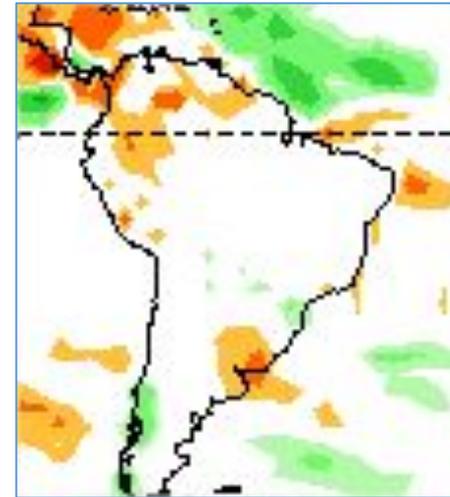
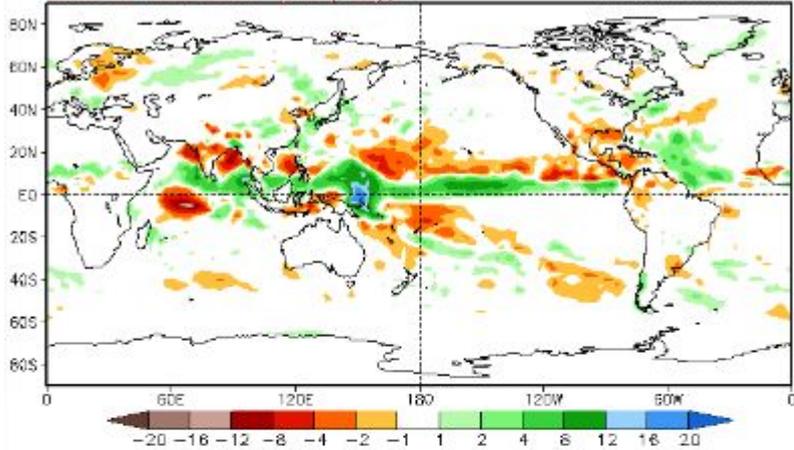


Tendência 3a e 4a semanas

16 Member Ensemble Mean Forecast from 18Jun2023

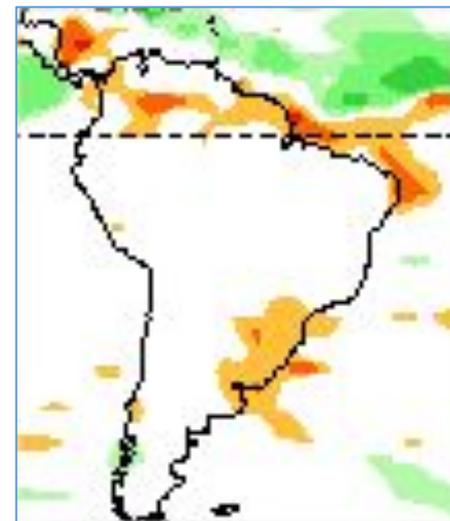
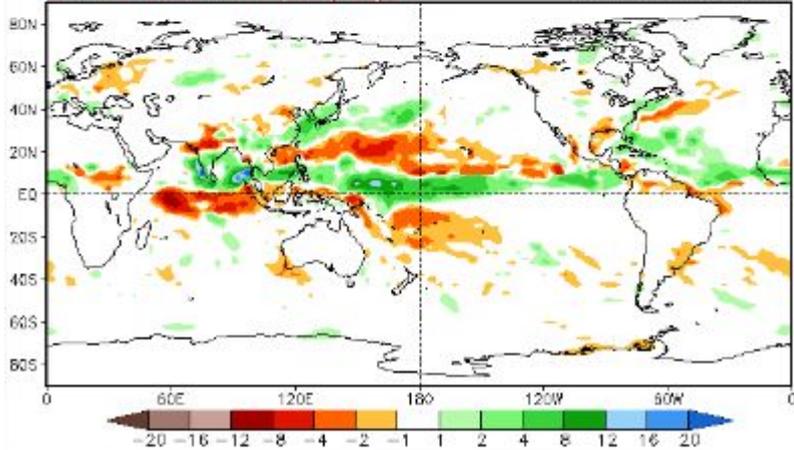
Week 3 Anomalies (mm/day)

3Jul2023–9Jul2023



Week 4 Anomalies (mm/day)

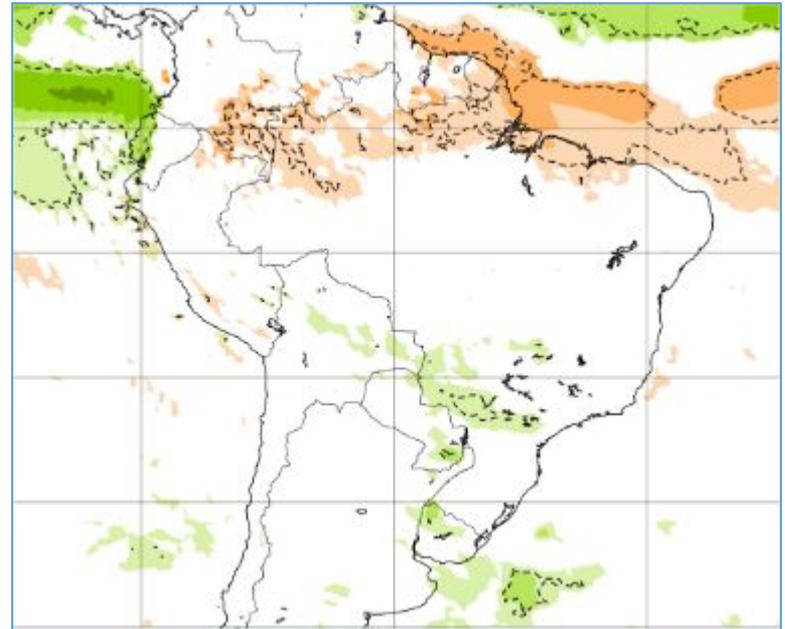
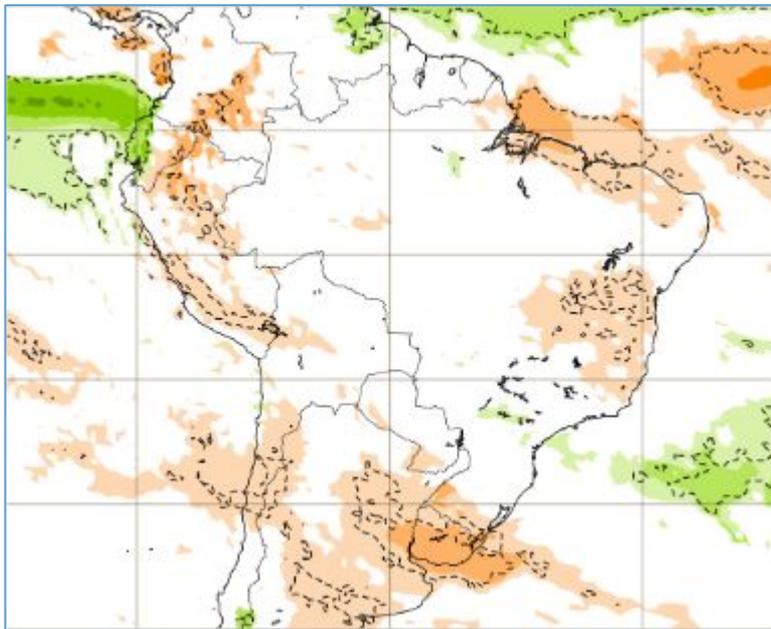
10Jul2023–16Jul2023



Tendência para 3ª e 4ª semanas

03-10/07

10-17/07





Update prepared by:
Climate Prediction Center / NCEP
12 June 2023

ENSO Alert System Status: **El Niño Advisory**

El Niño conditions are observed.*

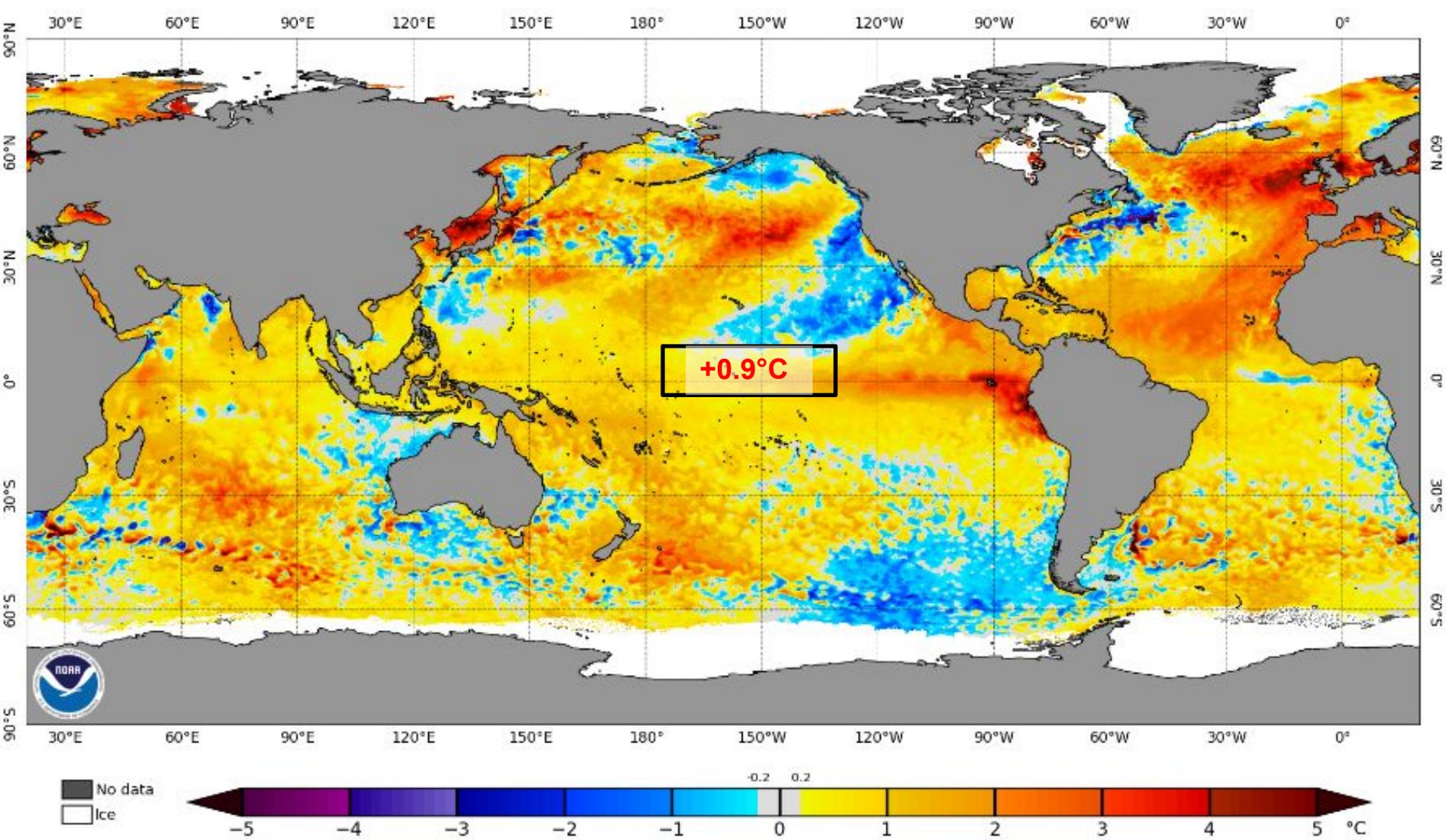
Equatorial sea surface temperatures (SSTs) are above average across the east-central and eastern Pacific Ocean.

The tropical Pacific atmospheric anomalies are consistent with weak El Niño conditions.

El Niño conditions are expected to gradually strengthen into the Northern Hemisphere winter 2023-24.*

Status Atual: **El Niño**

NOAA Coral Reef Watch Daily 5km SST Anomalies (v3.1) 18 Jun 2023

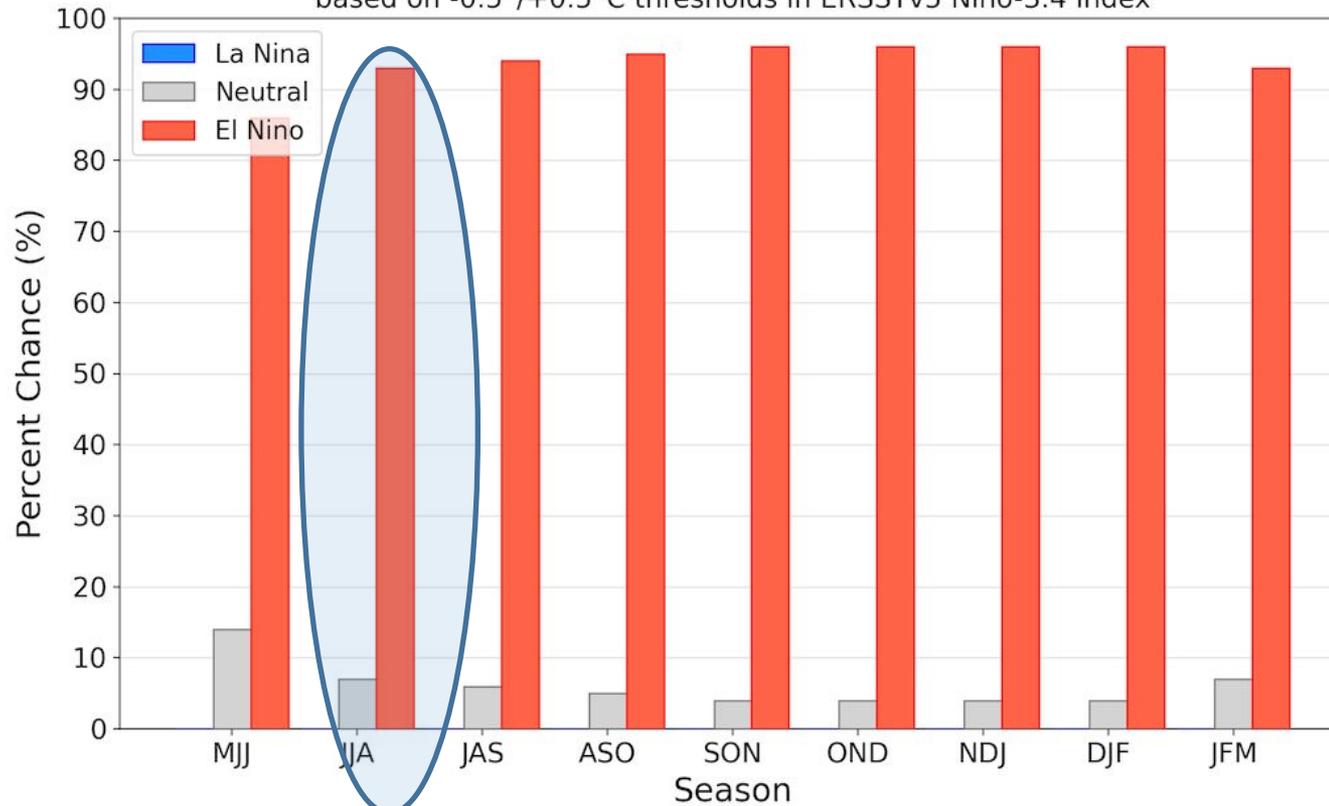


FONTE: NOAA

Previsão do “ENSO”

Official NOAA CPC ENSO Probabilities (issued June 2023)

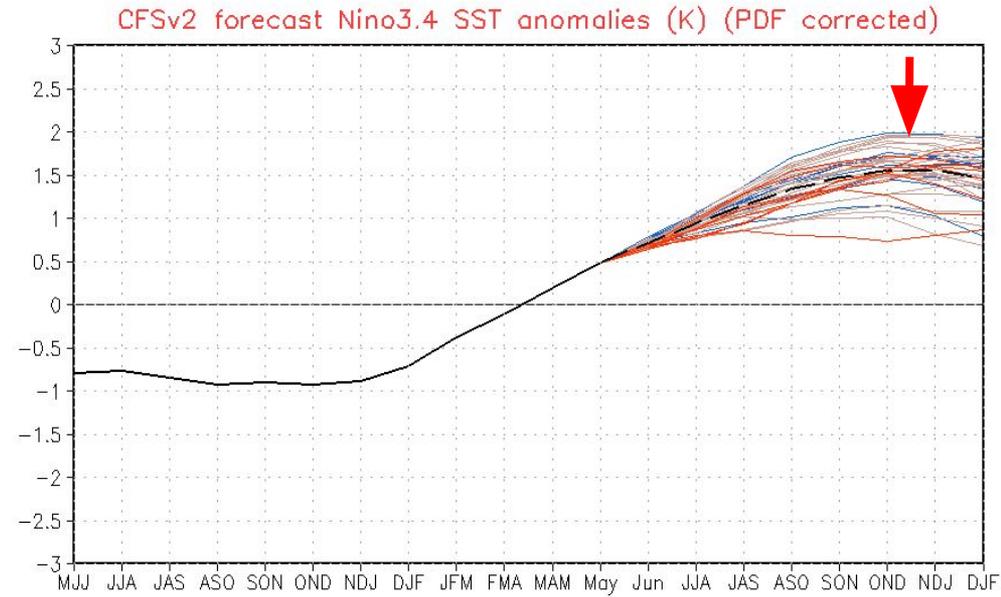
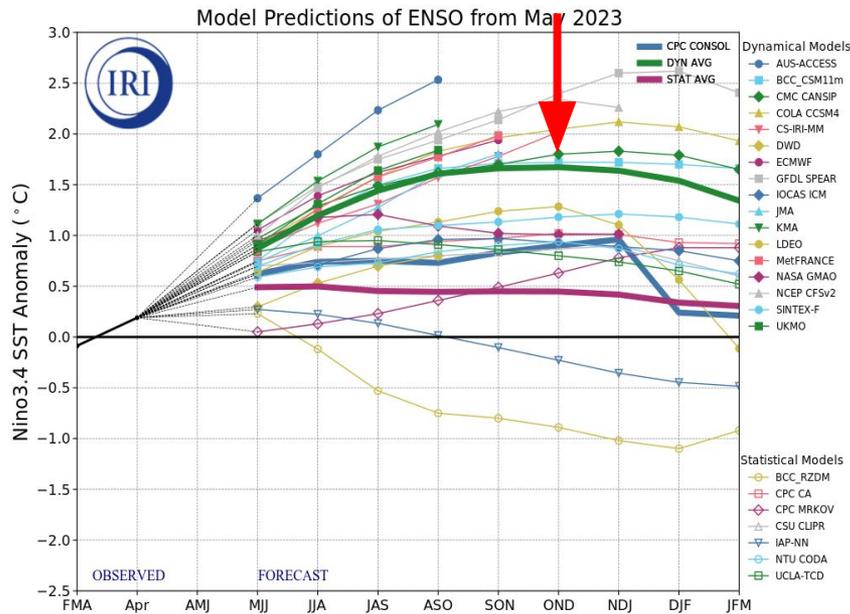
based on $-0.5^{\circ}/+0.5^{\circ}\text{C}$ thresholds in ERSSTv5 Niño-3.4 index



Status Atual: **El Niño**

FONTE: NOAA

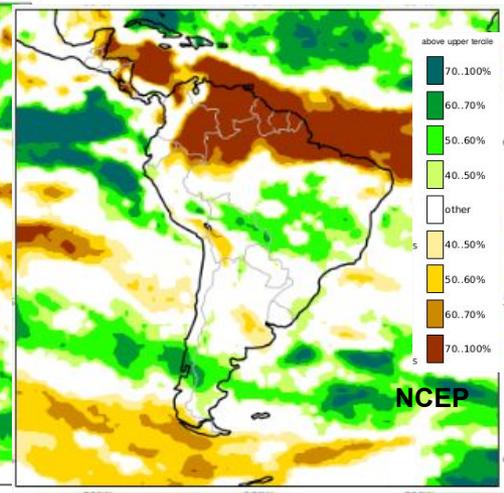
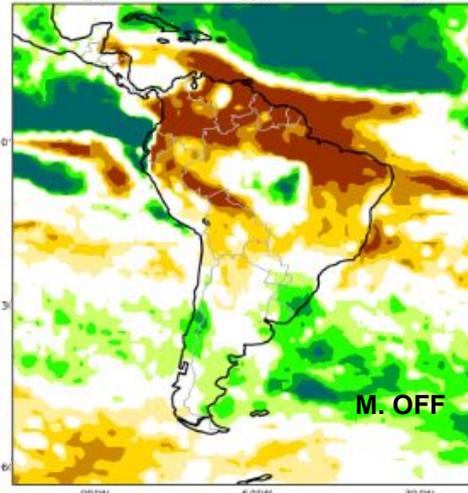
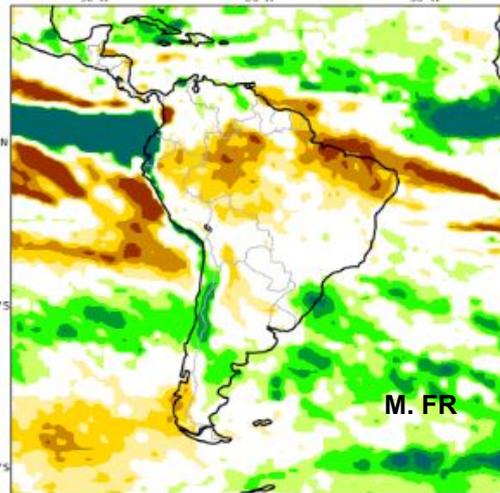
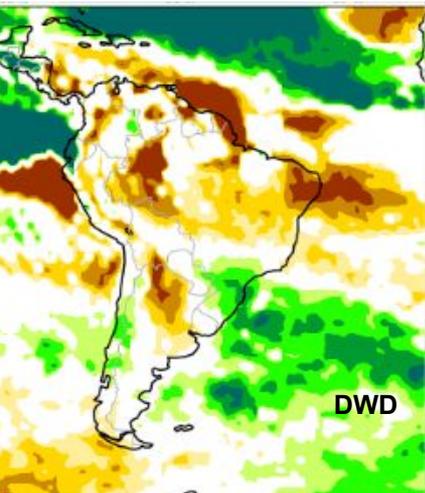
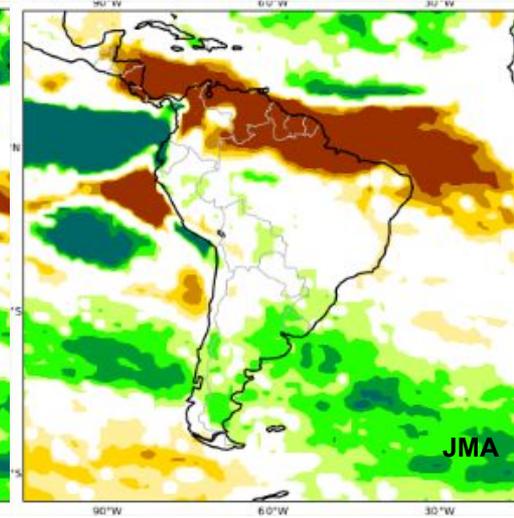
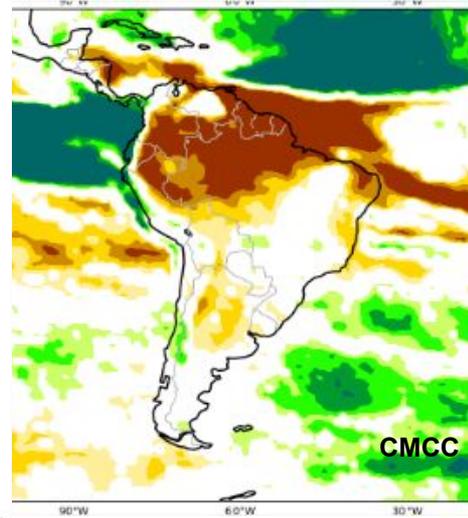
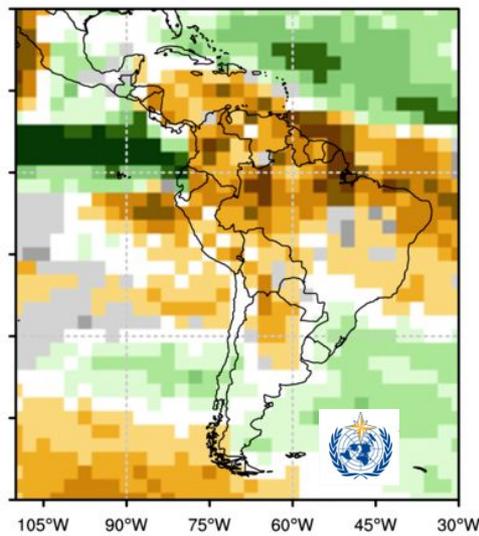
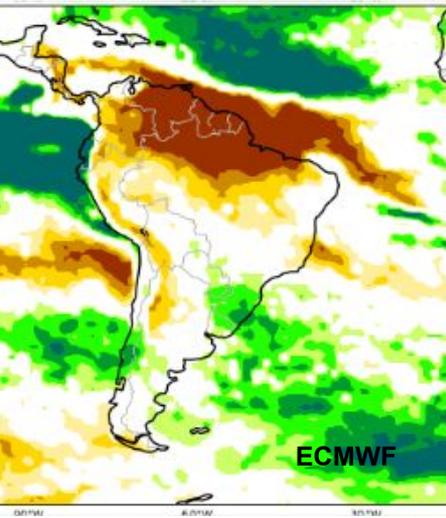
Previsão do “ENSO”



— Latest 8 forecast members
— Earliest 8 forecast members
— Other forecast members
- - - Forecast ensemble mean
— NCEI Olv2.1 daily analysis
 (Climatology base period: 1991–2020)

Atualizado: 12 de junho 2023

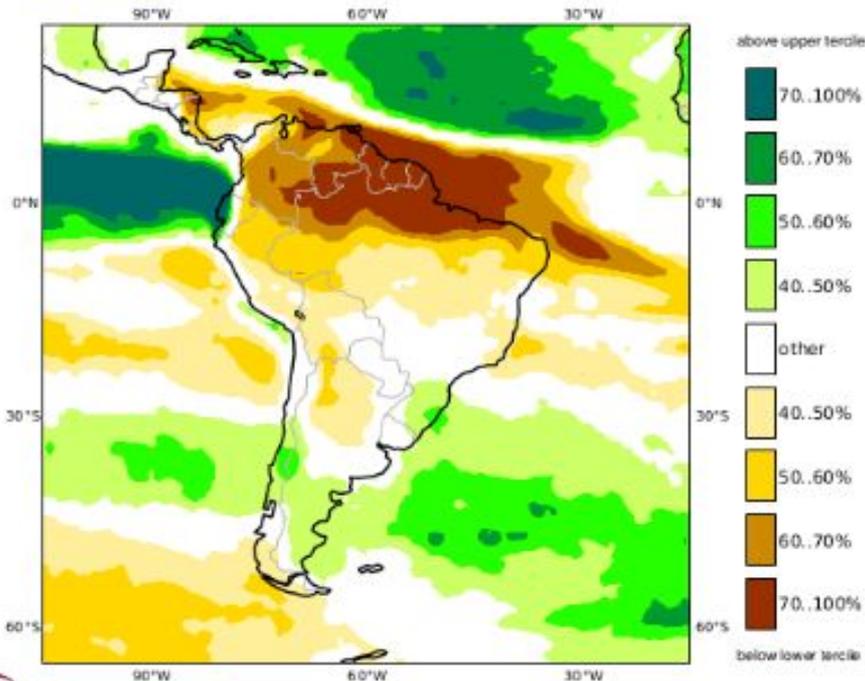
Previsão sazonal de Chuva JAS



Previsão Multi Modelo JAS

C3S multi-system seasonal forecast
Prob(most likely category of precipitation)
Nominal forecast start: 01/06/23
Unweighted mean

JAS 2023



NMME Precipitation Anomalies (mm/day)

Jul2023-Sep2023 June2023 initial conditions

