

Monitoramento e Previsões de chuva para a Bacia do Rio Paranapanema

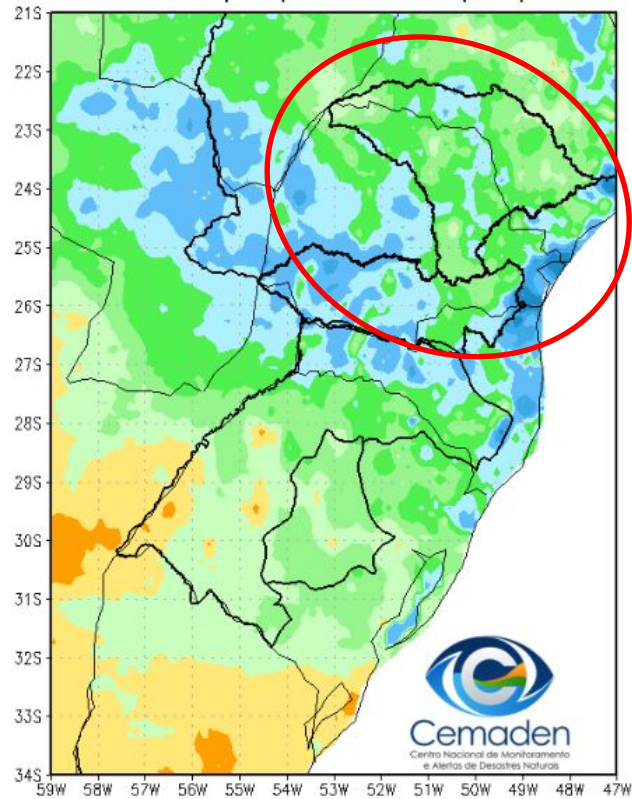


Cemaden
Centro Nacional de Monitoramento
e Alertas de Desastres Naturais

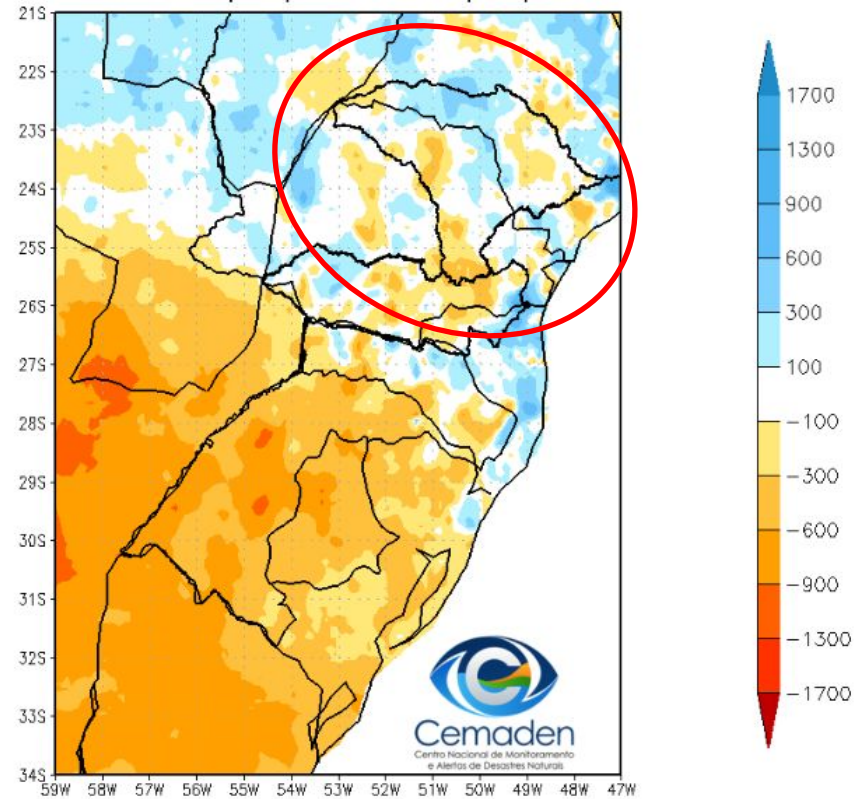
31 de Agosto de 2023

Precipitação acumulada Ano Hidrológico

Precipitação Acumulada (mm) A.S.
Período: 01/10/2022 a 30/08/2023

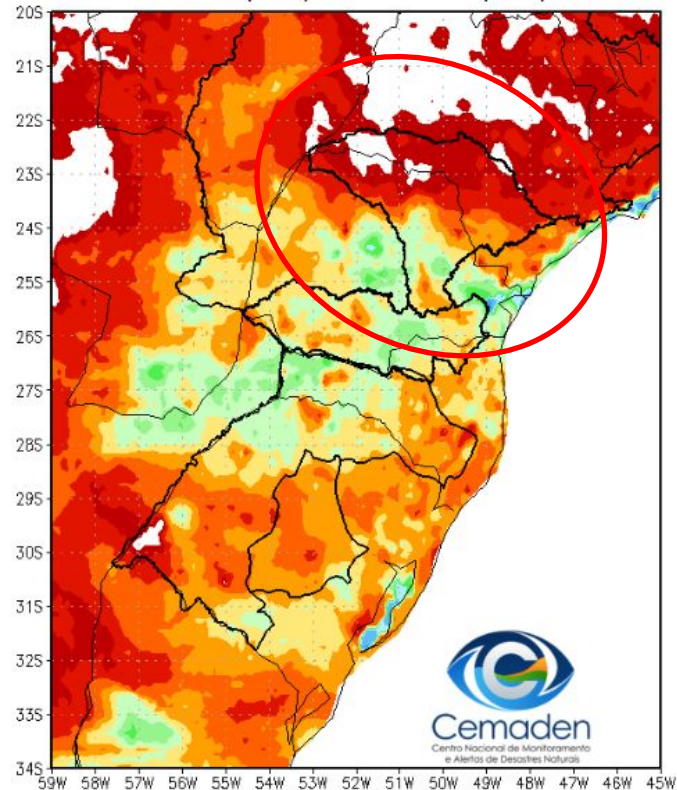


Anomalia de Precipitação (mm) A.S.
Período: 01/10/2022 a 30/08/2023

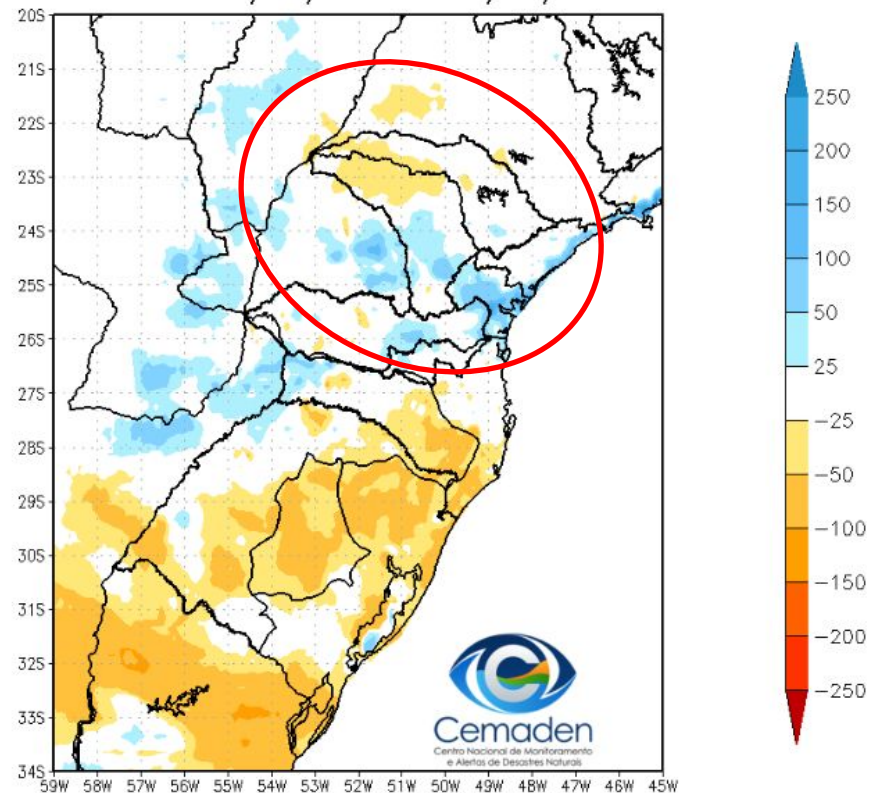


Precipitação acumulada nos últimos 30 dias

Precipitação Acumulada (mm) A.S.
Período: 31/07/2023 a 30/08/2023

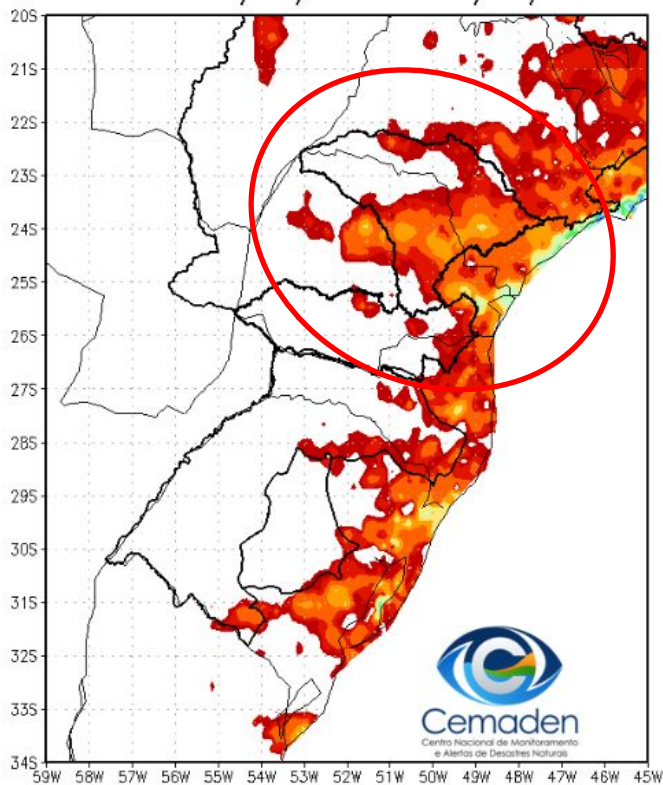


Anomalia de Precipitação (mm) A.S.
Período: 31/07/2023 a 30/08/2023

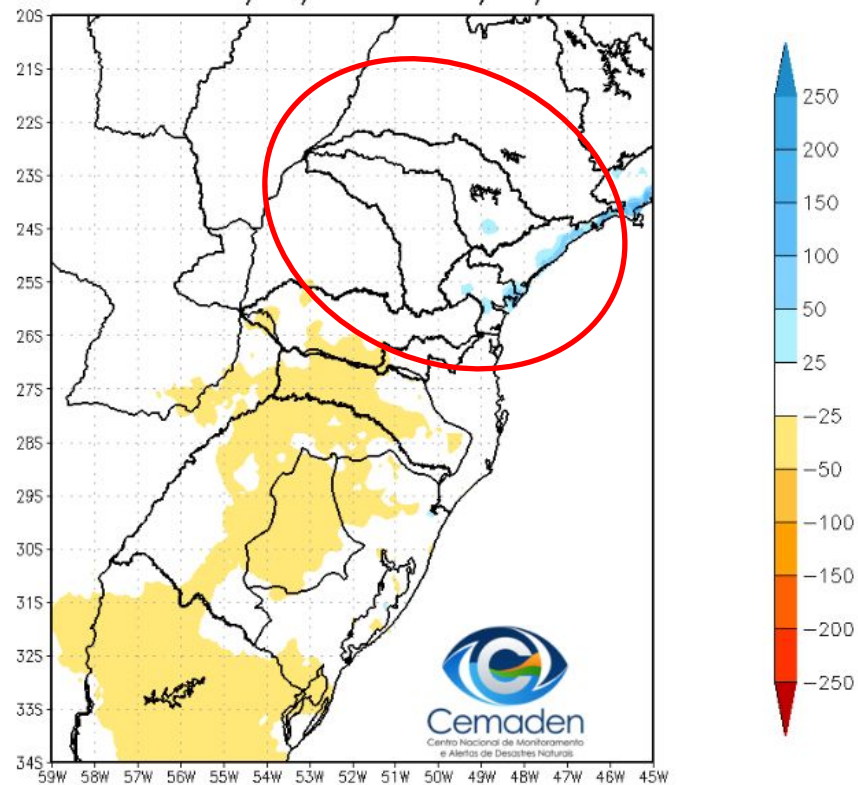


Precipitação acumulada nos últimos 7 dias

Precipitação Acumulada (mm) A.S.
Período: 23/08/2023 a 30/08/2023



Anomalia de Precipitação (mm) A.S.
Período: 23/08/2023 a 30/08/2023



Monitoramento da situação da seca na bacia do rio Paranapanema

DIAGNÓSTICO: AGOSTO/2023

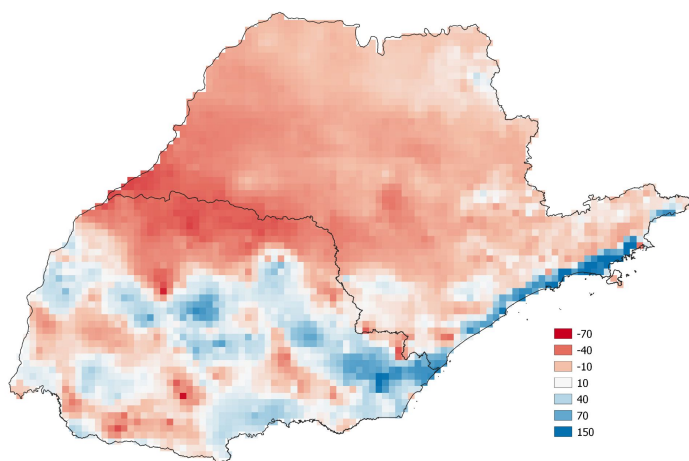


MINISTÉRIO DA
CIÊNCIA, TECNOLOGIA
E INOVAÇÕES

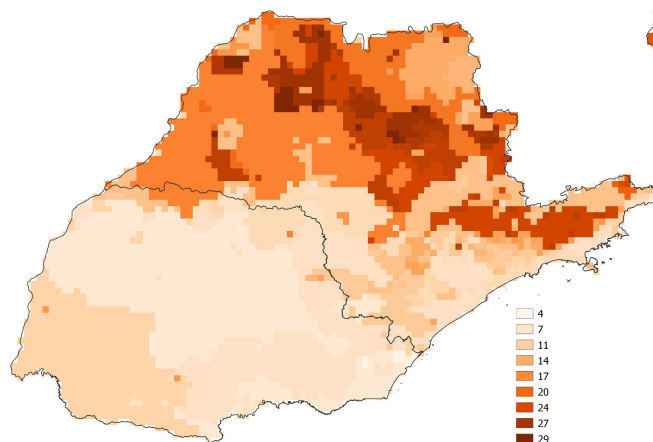


PRECIPITAÇÃO: AGOSTO 2023 (ATÉ 29/07)

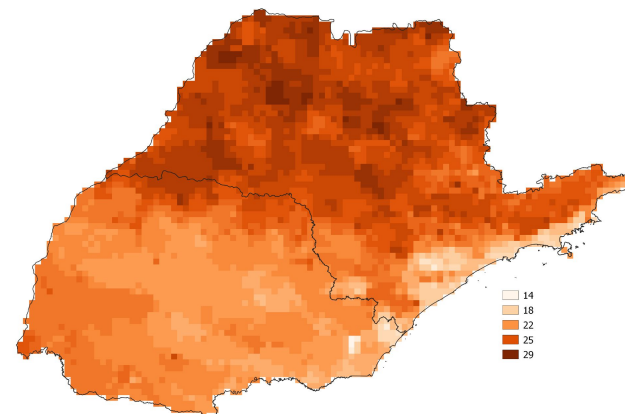
Anomalia (mm)



Máximo de dias consecutivos sem chuva



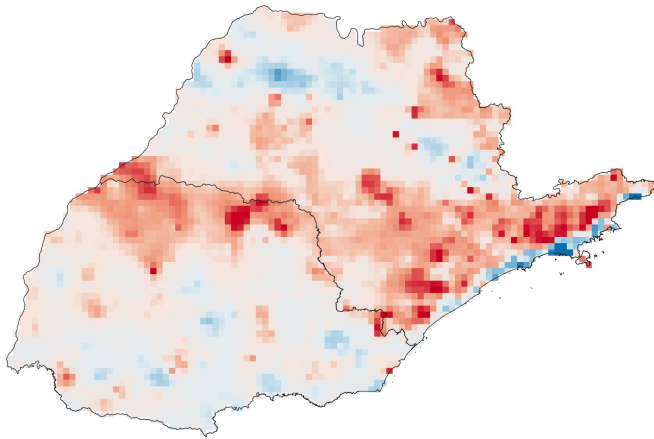
Total de dias sem chuva



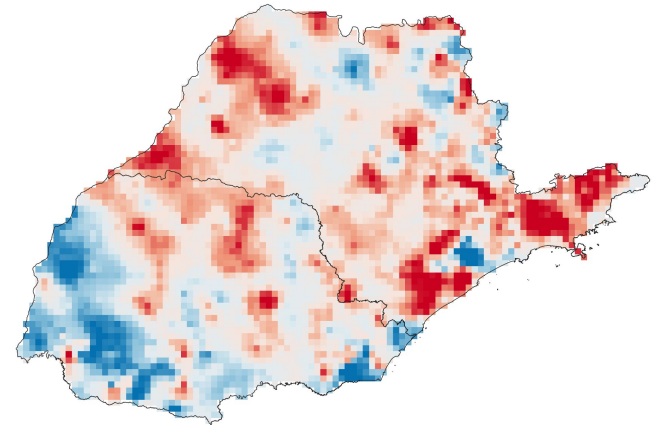


SPI: AGOSTO 2023

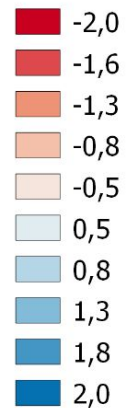
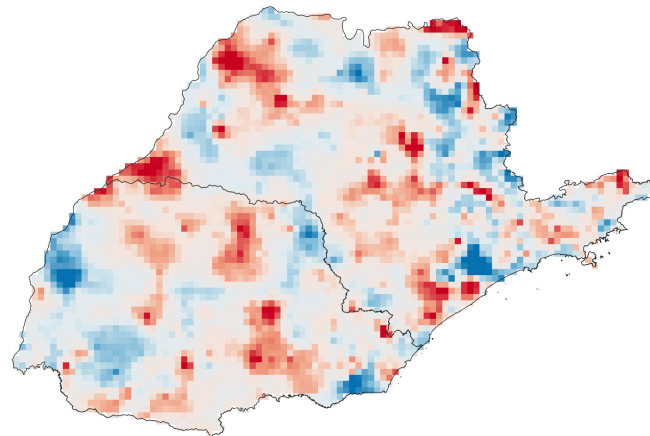
SPI03



SPI24



SPI12

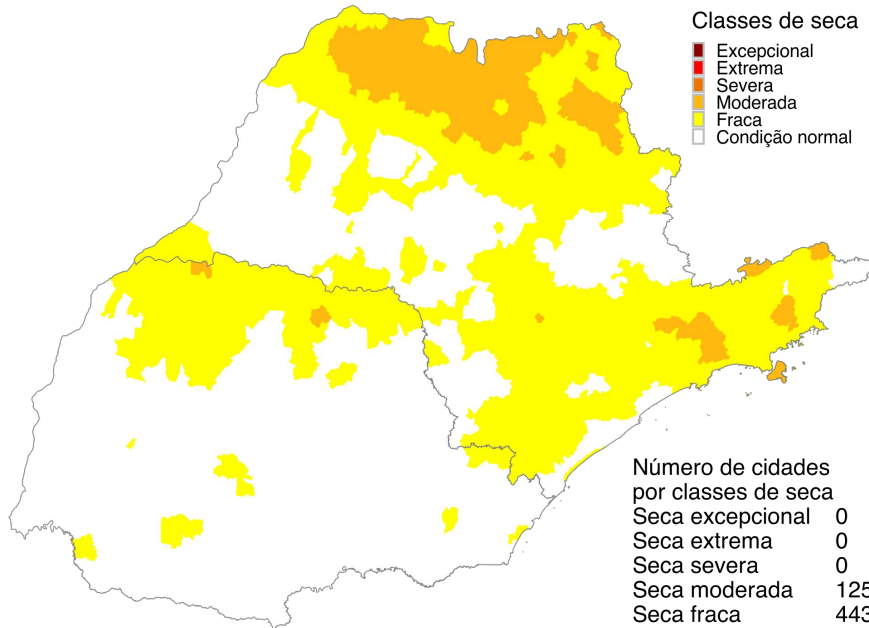




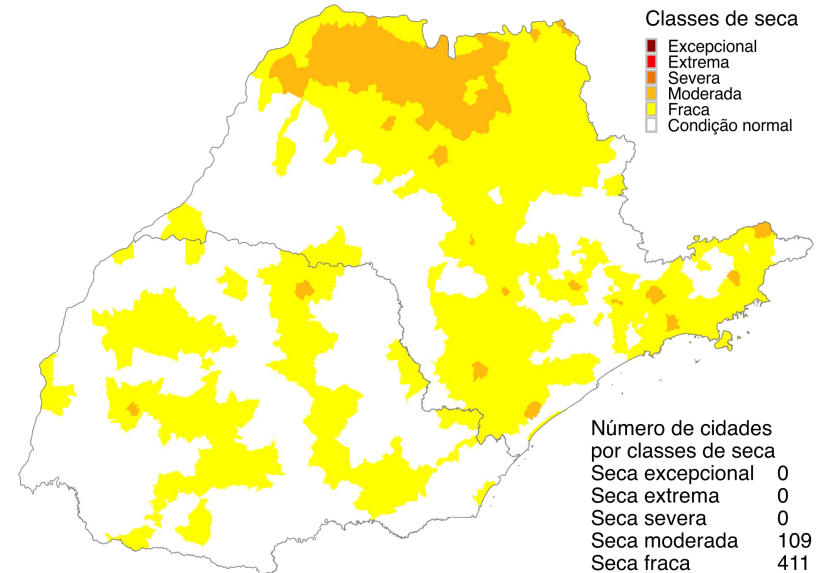
ÍNDICE INTEGRADO DE SECA - IIS

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

IIS 3 MESES

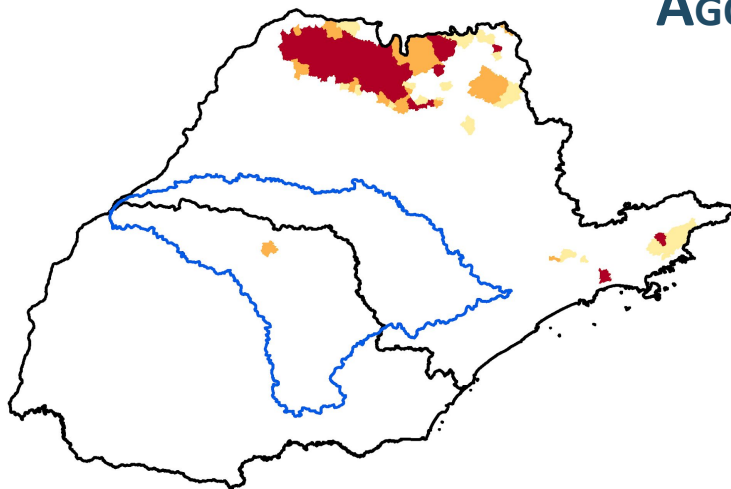


IIS 6 MESES



ÁREAS DE PASTAGENS E AGRÍCOLAS AFETADAS PELA SECA

AGOSTO (PARCIAL)/23

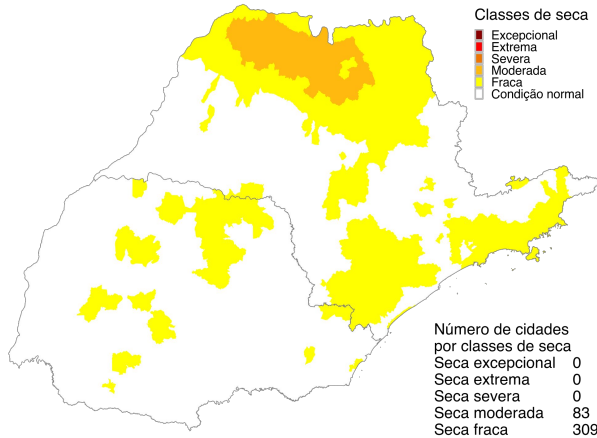


UF	40 a 60%	60 - 80%	> 80%
PR		2	
SP	18	19	56

	40 a 60%	60 - 80%	> 80%	Imóveis Rurais Impactados > 40%
Paraná				
Minifundio	-	58111 (22%)	-	58111 (22%)
Pequena Propriedade	-	420 (*)	-	420 (*)
Media Propriedade	-	76 (*)	-	76 (*)
São Paulo				
Minifundio	6229 (3%)	4125 (2%)	15503 (8%)	25857 (13%)
Pequena Propriedade	3363 (3%)	3215 (3%)	9322 (9%)	15900 (15%)
Media Propriedade	971 (3%)	1321 (4%)	2750 (8%)	5042 (14%)

(*) Porcentagem inferior a 1%.

CHUVA 30% ACIMA DA MÉDIA



Outubro 2023
Índice Integrado de Seca (SPI6, VHI, US)
Cenário: Chuva +50%
Dados: CPTEC/INPE - NOAA - NASA / Preparação: Cemaden/MCTI

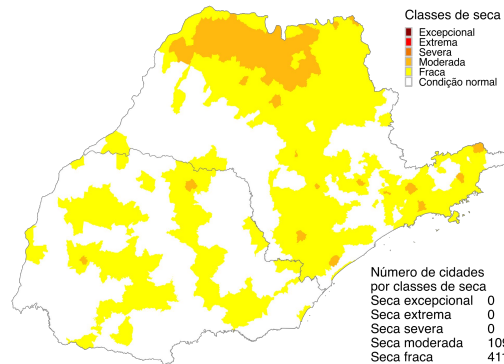
Setembro/23

IIS

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

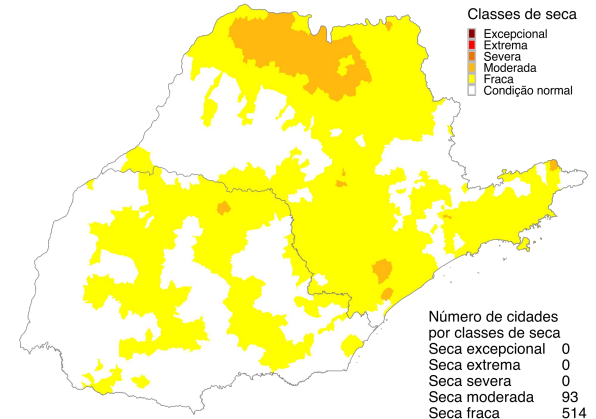
IIS OBSERVADO (IIS6)

Agosto/23



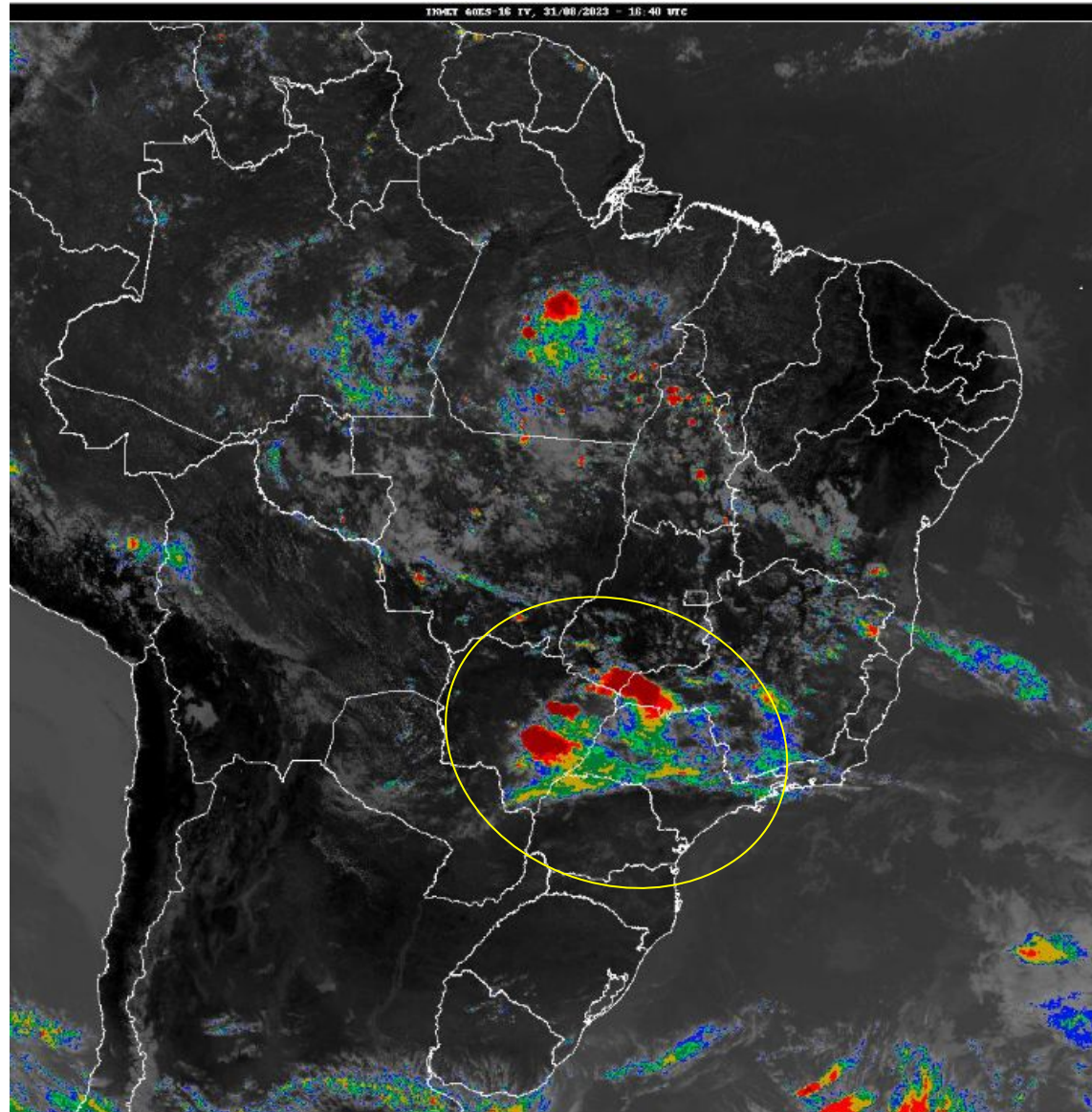
Agosto 2023
Índice Integrado de Seca (SPI6, VHI, US)
Dados: CPTEC/INPE - NOAA - NASA / Preparação: Cemaden/MCTI

CHUVA 30% ABAIXO DA MÉDIA



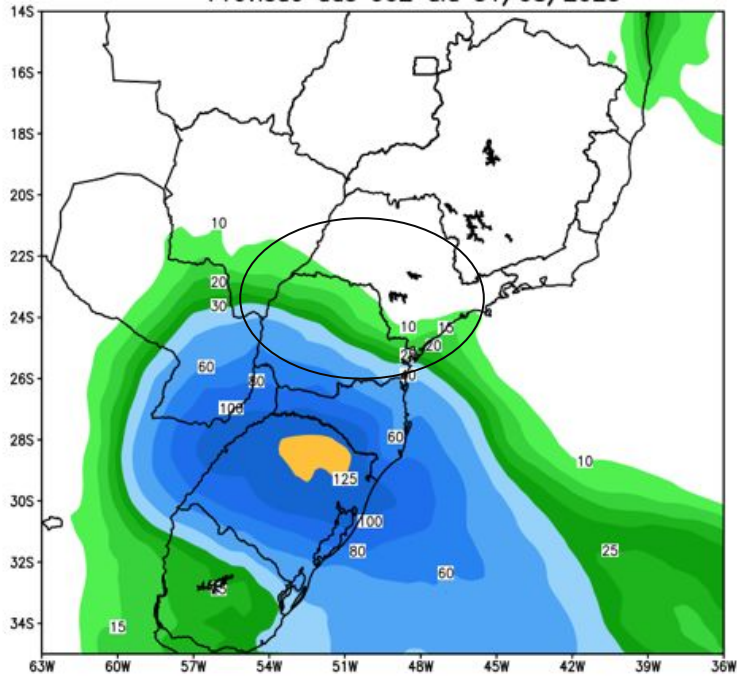
Outubro 2023
Índice Integrado de Seca (SPI6, VHI, AUS)
Cenário: Chuva -50%
Dados: CPTEC/INPE - NOAA - NASA / Preparação: Cemaden/MCTI

Situação meteorológica atual

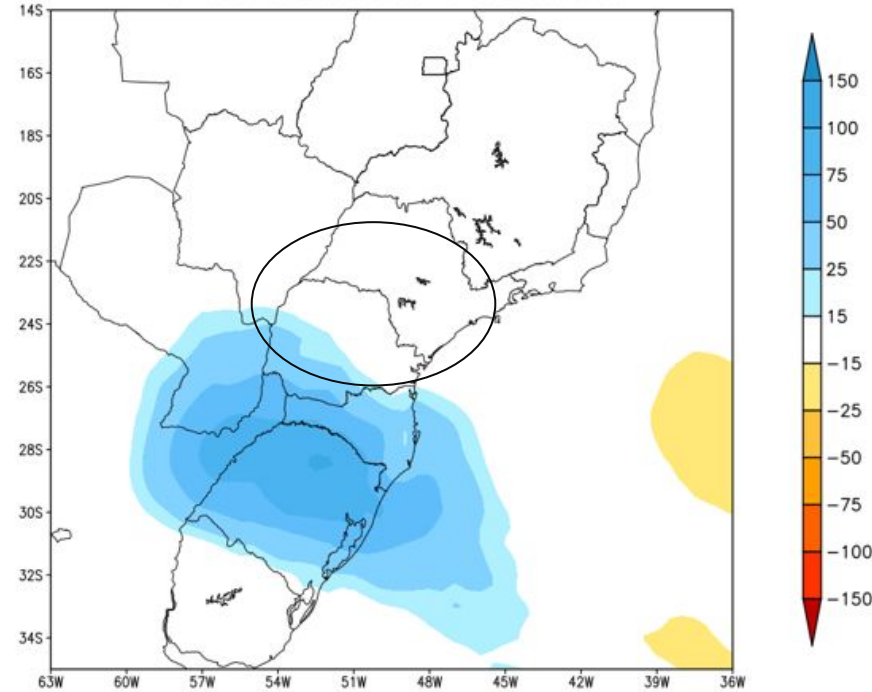


Previsão de chuva próximos 7 dias

GEFS / BRASIL_SUL
Precipitacao acumulada 1aSem (mm)
Previsao das 00Z dia 31/08/2023



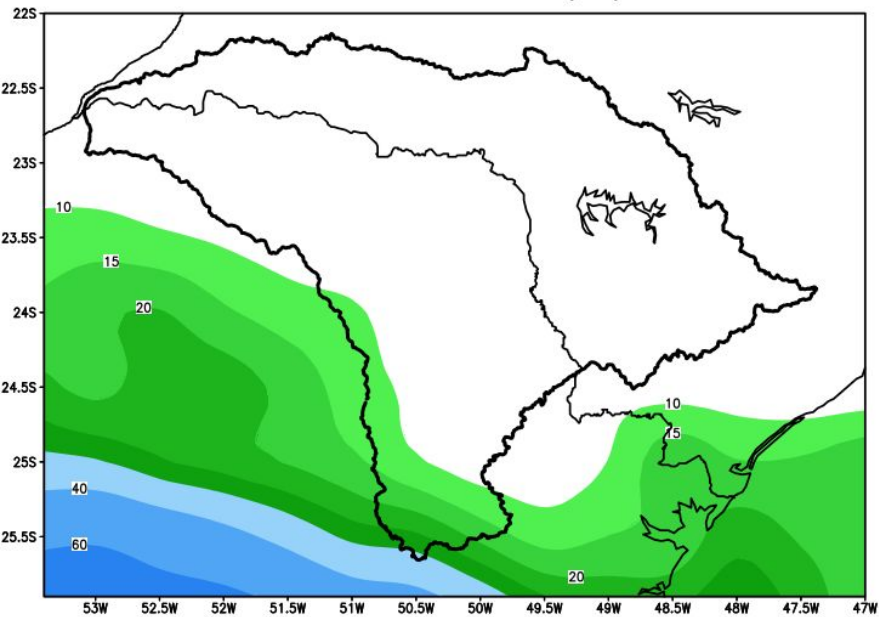
Anomalia de Precipitacao BR_SUL (mm)
Periodo: 2023083100 a 2023090700



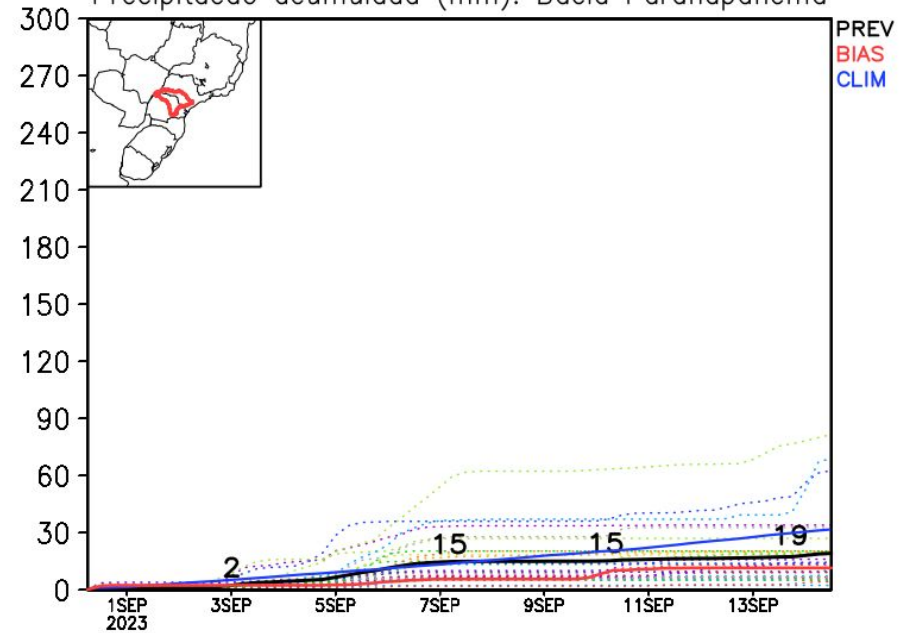
MODELO GFS

Previsão para a bacia do rio Paranapanema

GEFS_BC / Bacia do Rio Paranapanema
Prec. acumulada com correcao de vies em 7 dias (mm)
Previsao das 00Z dia 31/08/2023

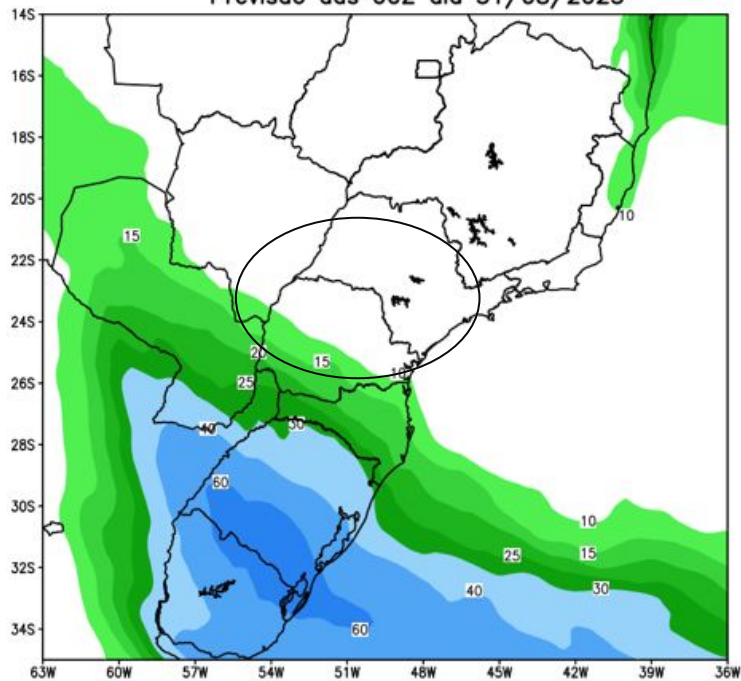


Precipitacao acumulada (mm): Bacia Paranapanema

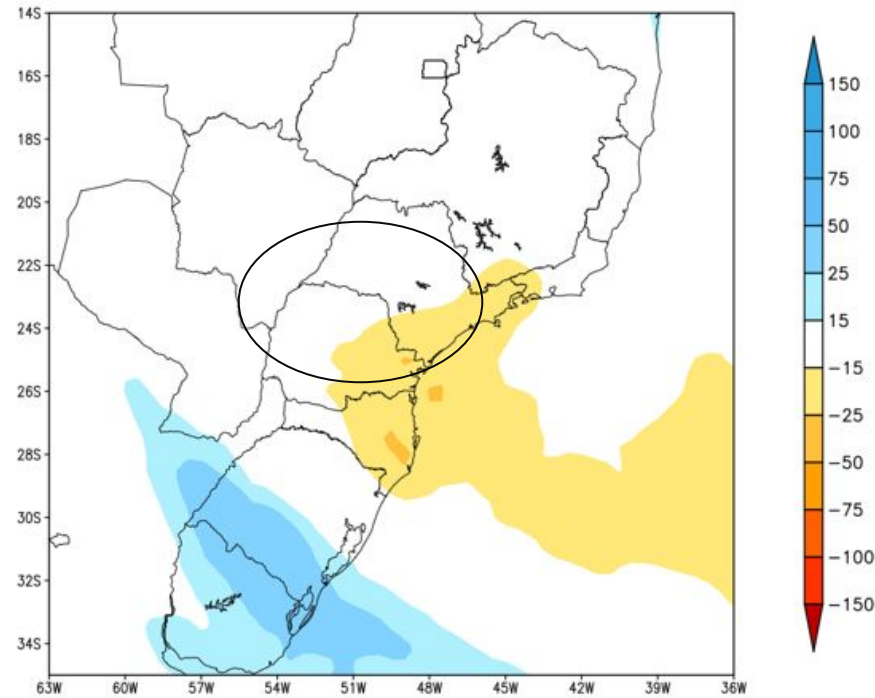


Tendência para a segunda semana

GEFS / BRASIL_SUL
Precipitacao acumulada 2aSem (mm)
Previsao das 00Z dia 31/08/2023



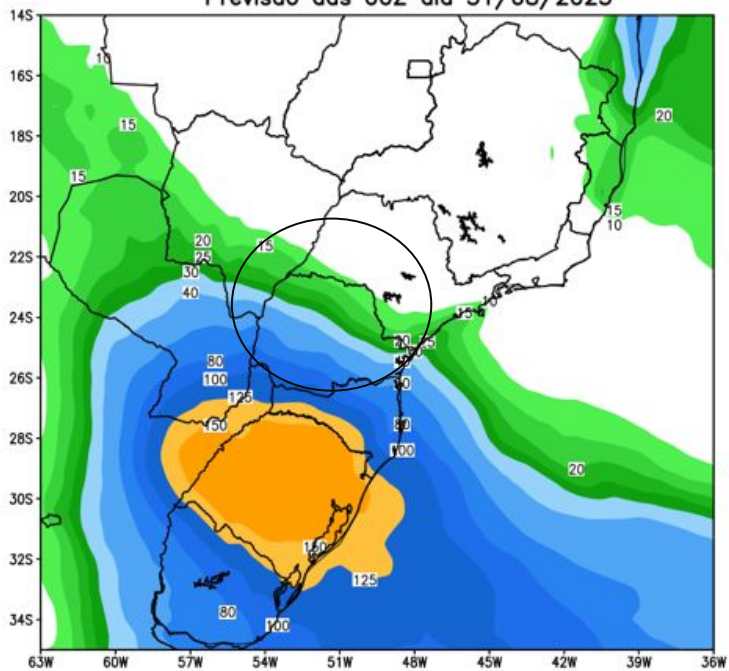
Anomalia de Precipitacao BR_SUL (mm)
Periodo: 2023090800 a 2023091400



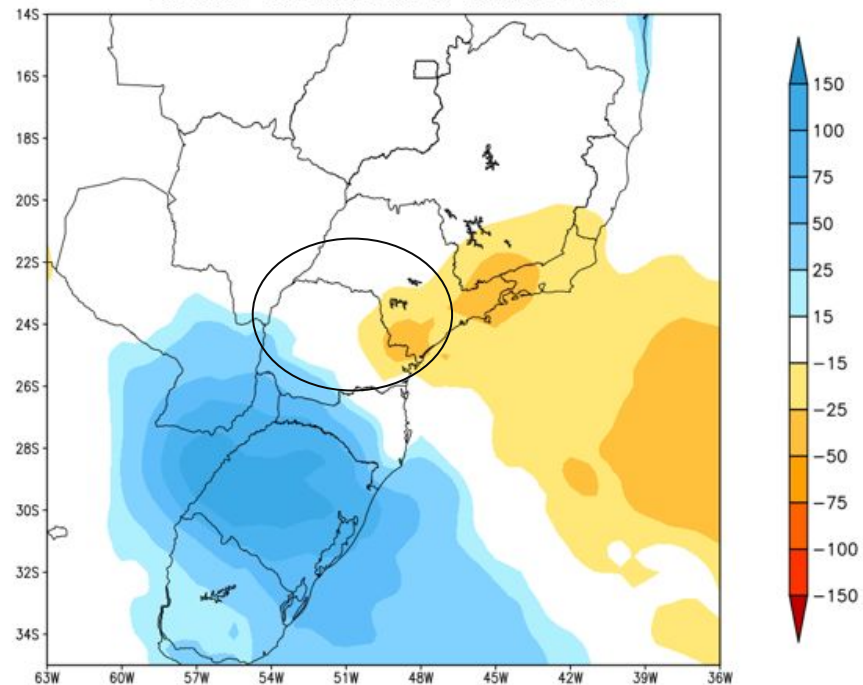
MODELO GFS

Tendência para as duas próximas semanas

GEFS / BRASIL_SUL
Precipitacao acumulada 14 dias (mm)
Previsao das 00Z dia 31/08/2023

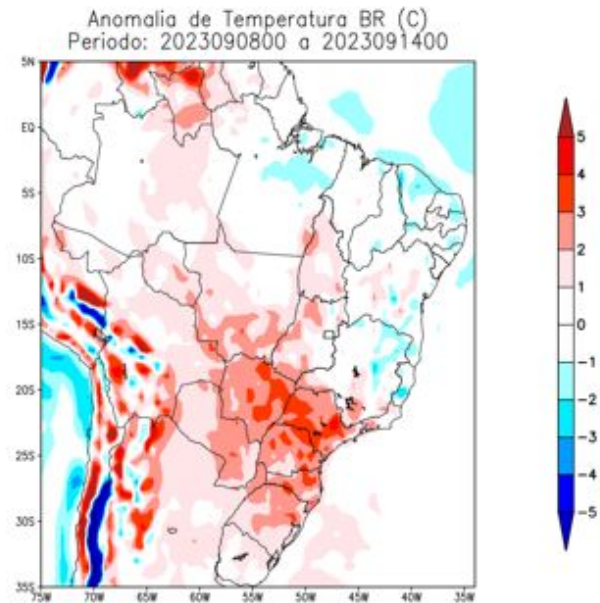
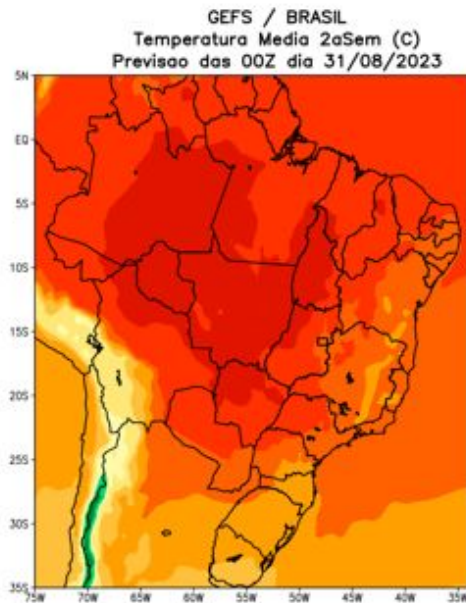
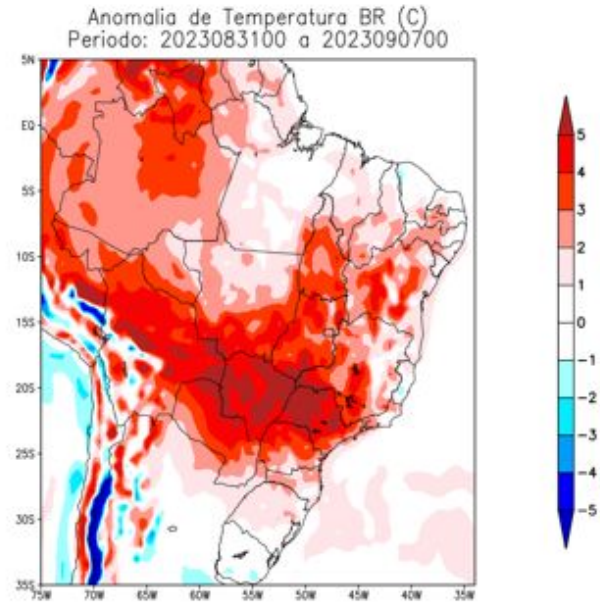
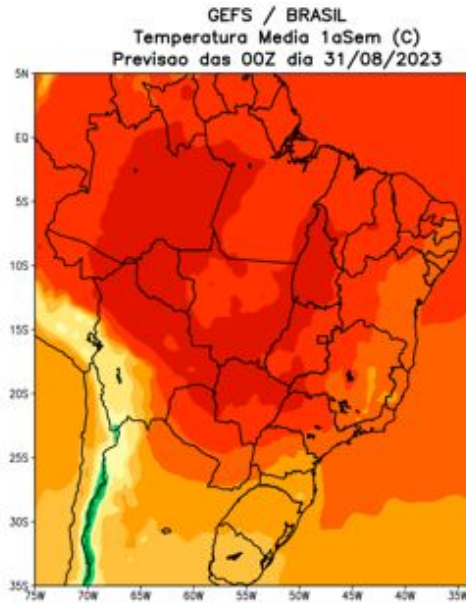


Anomalia de Precipitacao BR_SUL (mm)
Periodo: 2023083100 a 2023091400



MODELO GFS

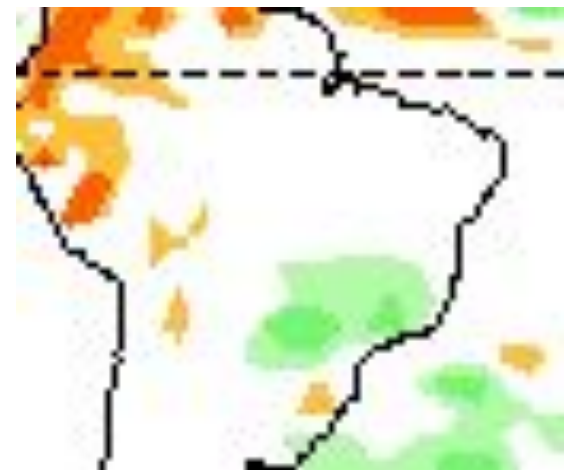
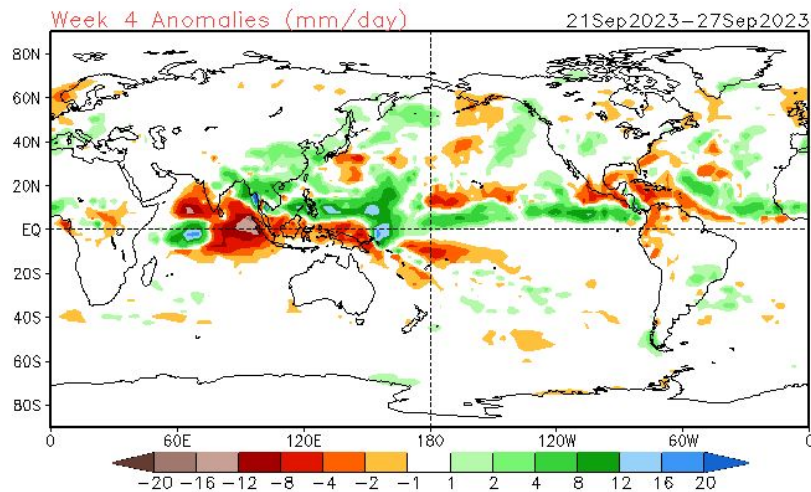
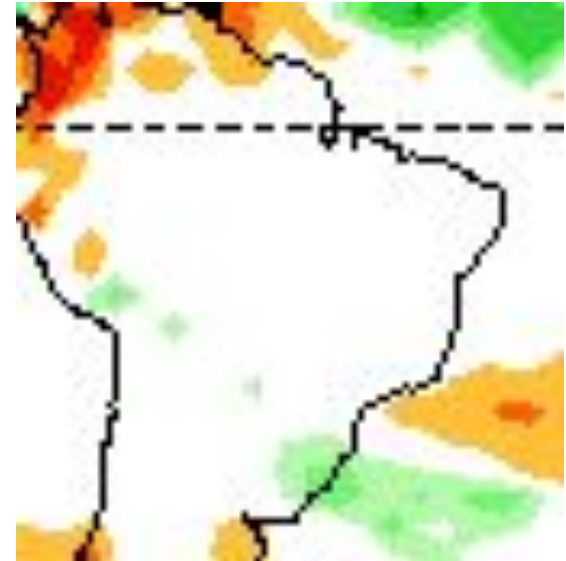
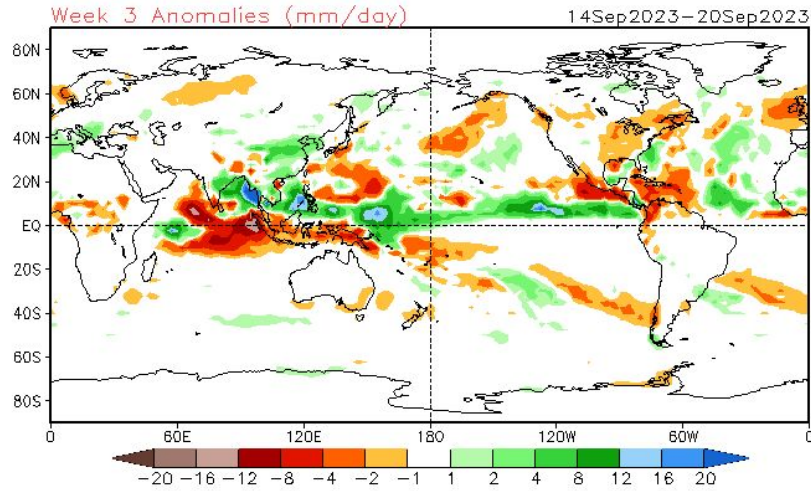
Previsão de Temperatura



Tendência 3a e 4a semanas

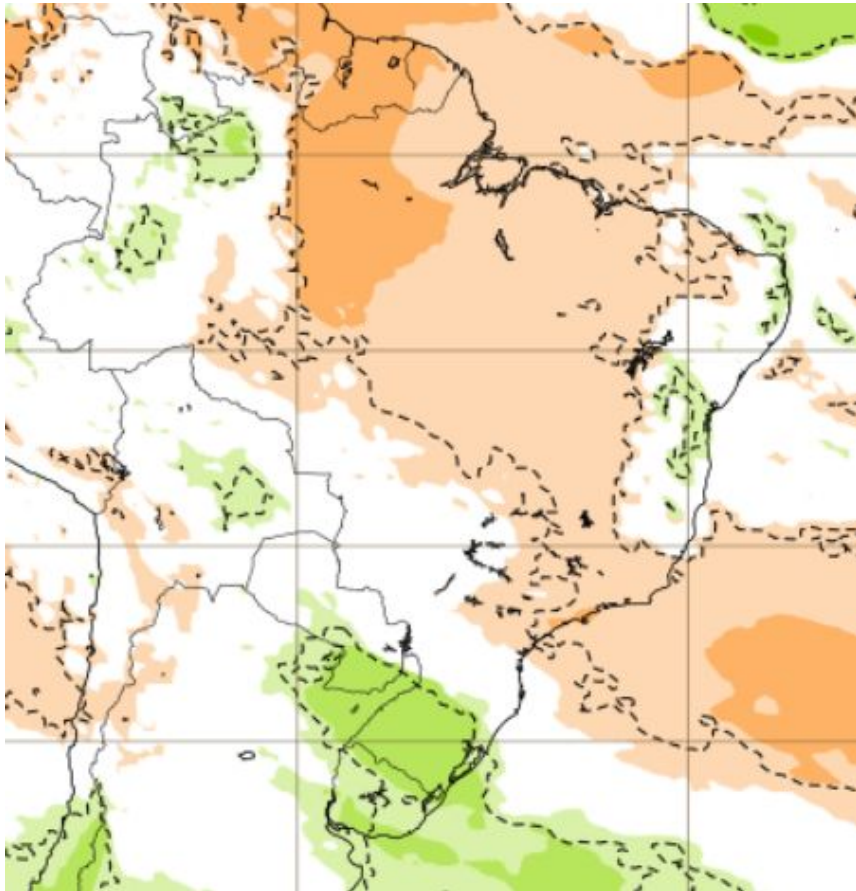
CFSv2 Weeks 3 & 4 Precipitation

16 Member Ensemble Mean Forecast from 30Aug2023

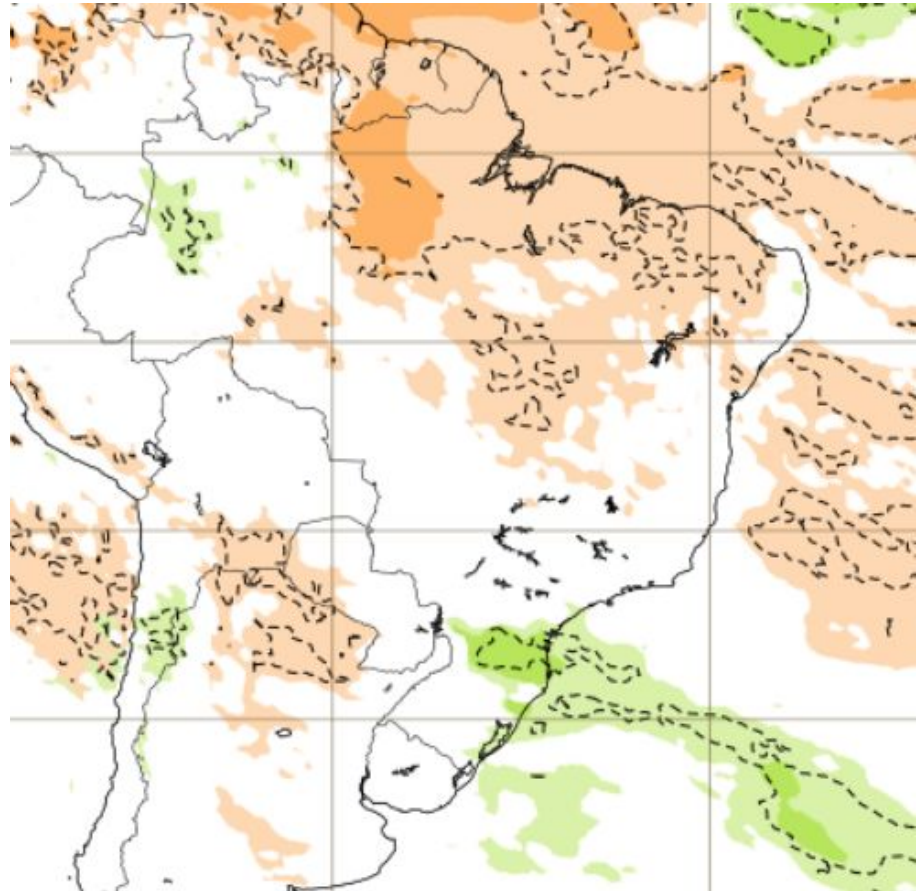


Tendência para 3ª e 4ª semanas

11-17/09

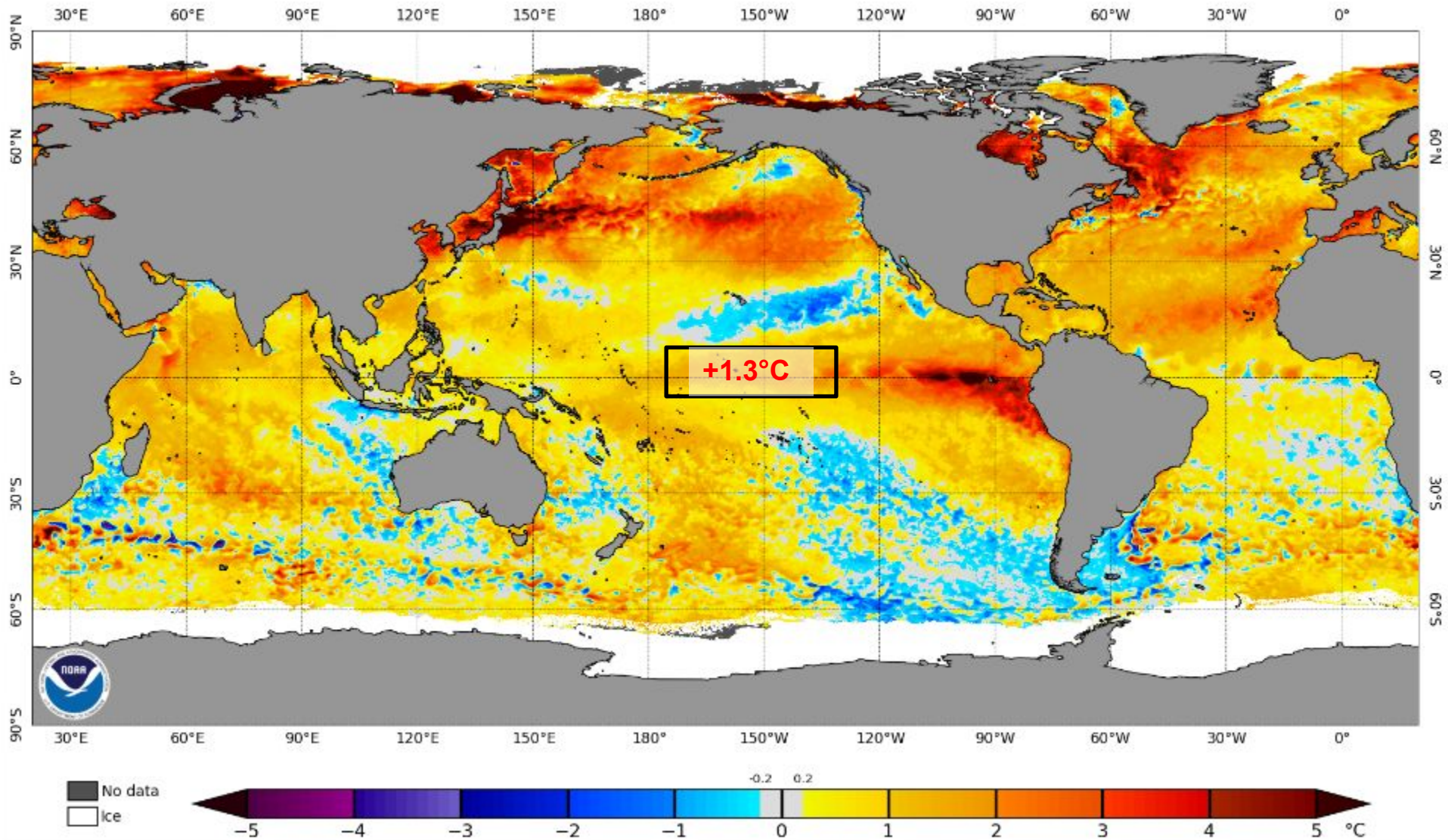


18-25/09

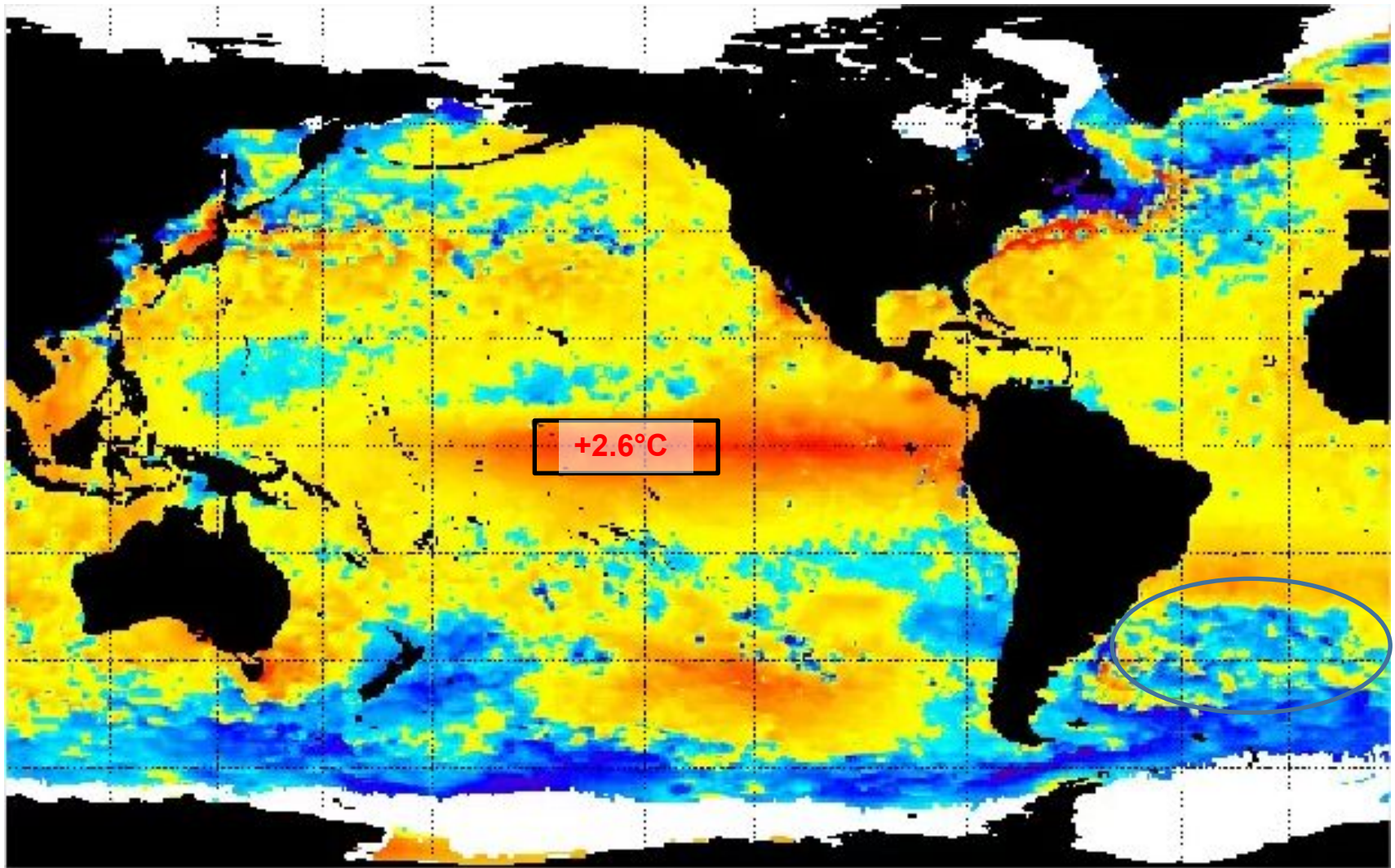


Status Atual: **El Niño**

NOAA Coral Reef Watch Daily 5km SST Anomalies (v3.1) 21 Aug 2023

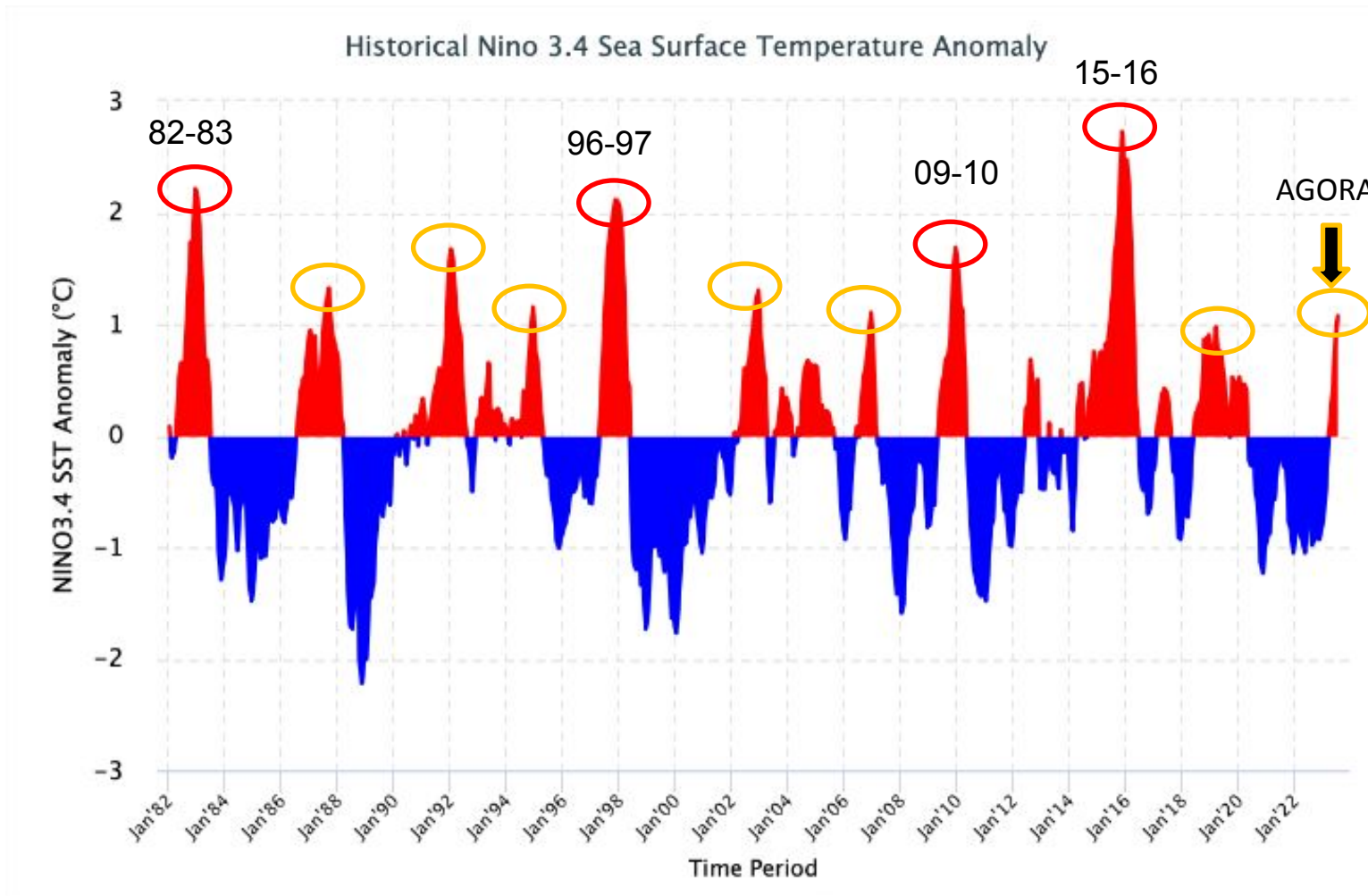


El Niño 2015-2016 (muito forte)



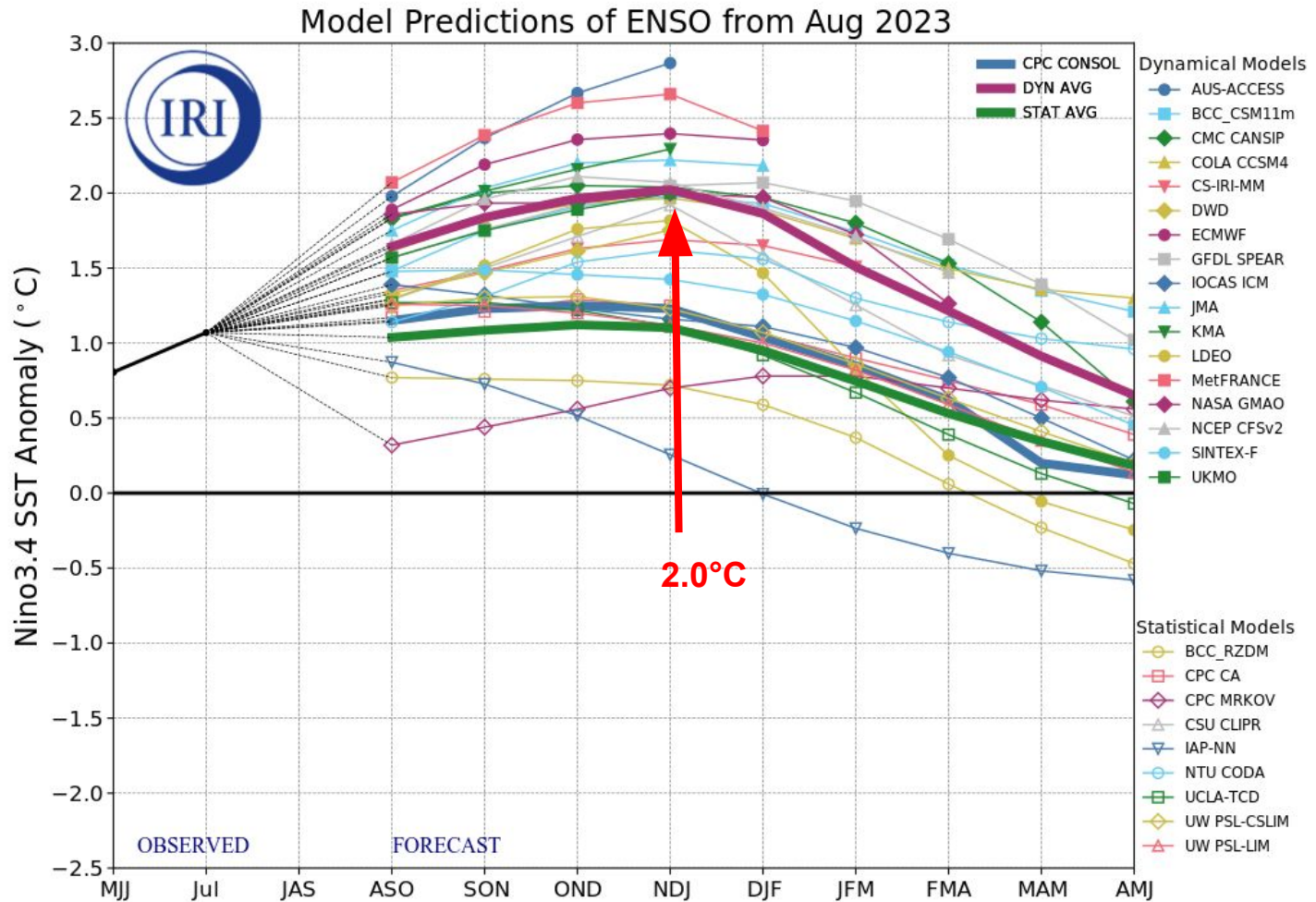
Dezembro de 2015

Comparação de fenômenos EN

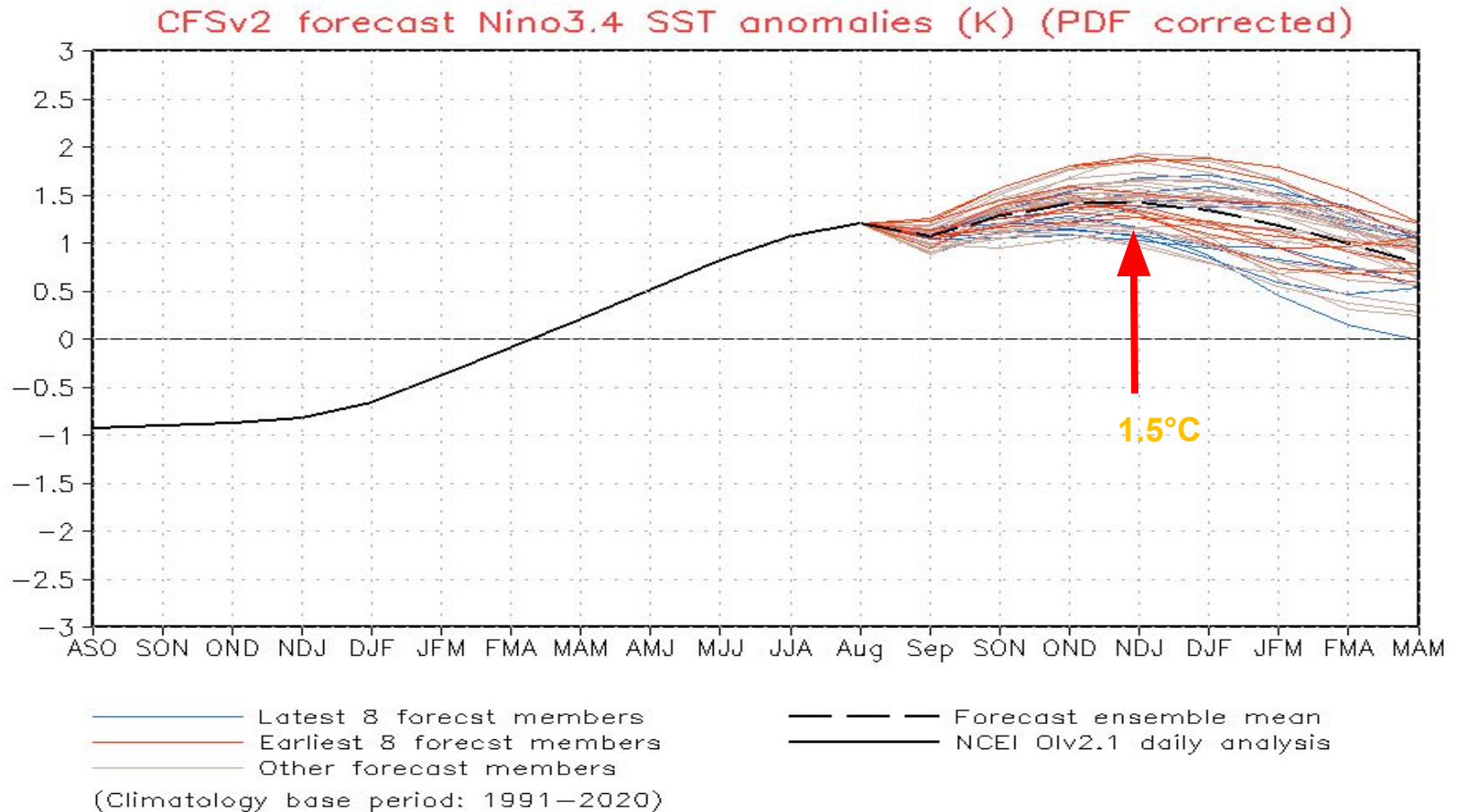


Dezembro de 2015

Previsão do “ENSO”



Previsão do “ENSO”

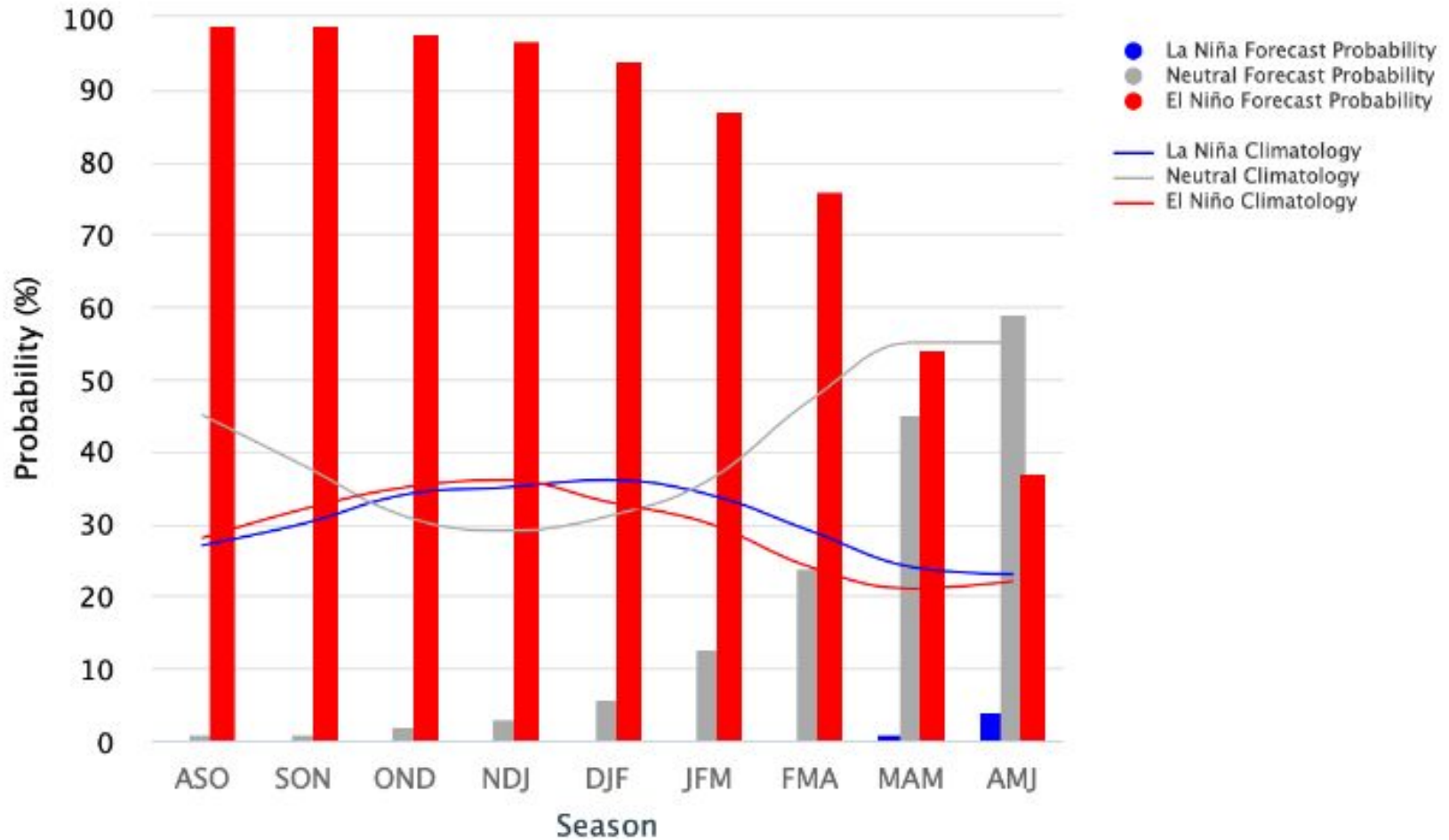


Atualizado: 21 de Agosto 2023

Previsão do “ENSO”

Mid-August 2023 IRI Model-Based Probabilistic ENSO Forecasts

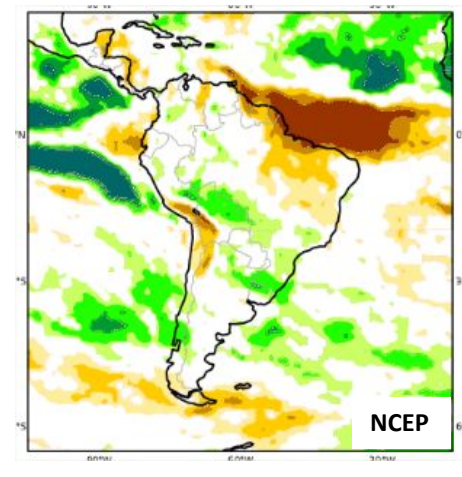
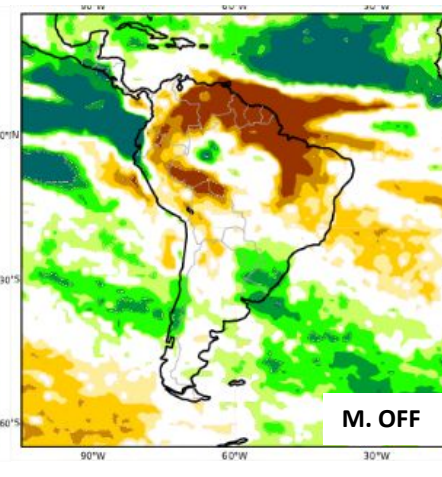
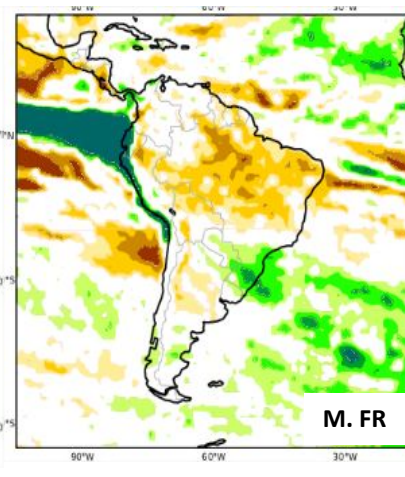
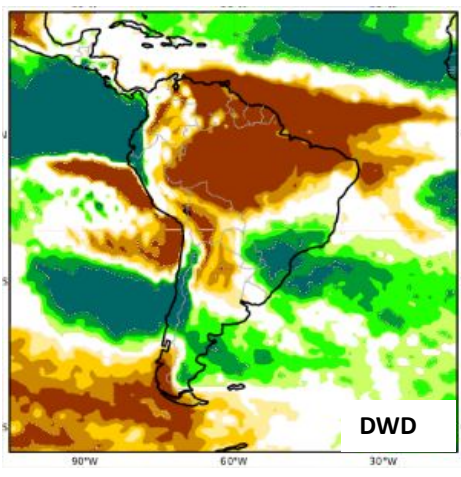
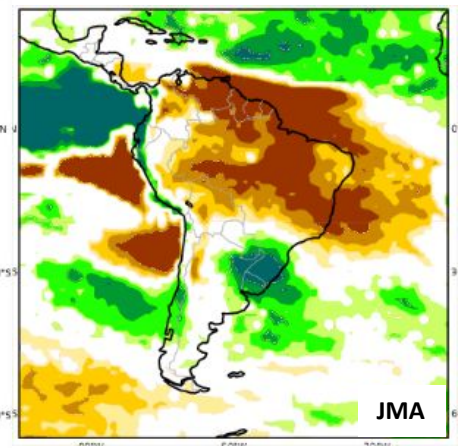
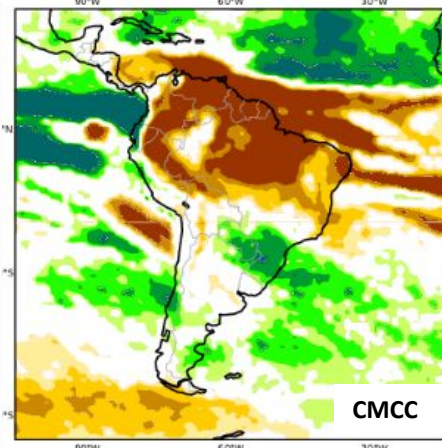
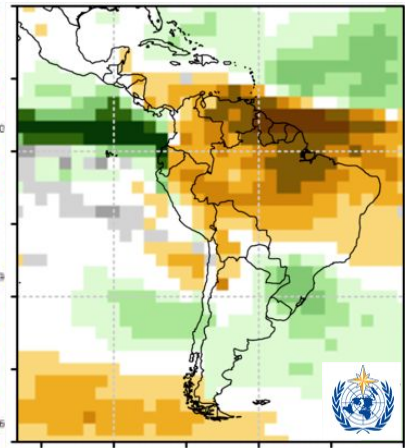
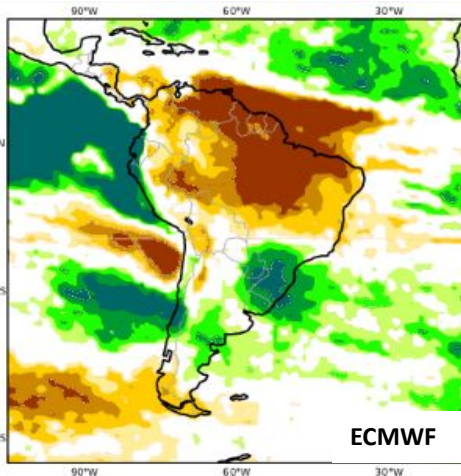
ENSO state based on NINO3.4 SST Anomaly Neutral ENSO: $-0.5\text{ }^{\circ}\text{C}$ to $0.5\text{ }^{\circ}\text{C}$.



Status Atual: **El Niño**

FONTE: NOAA

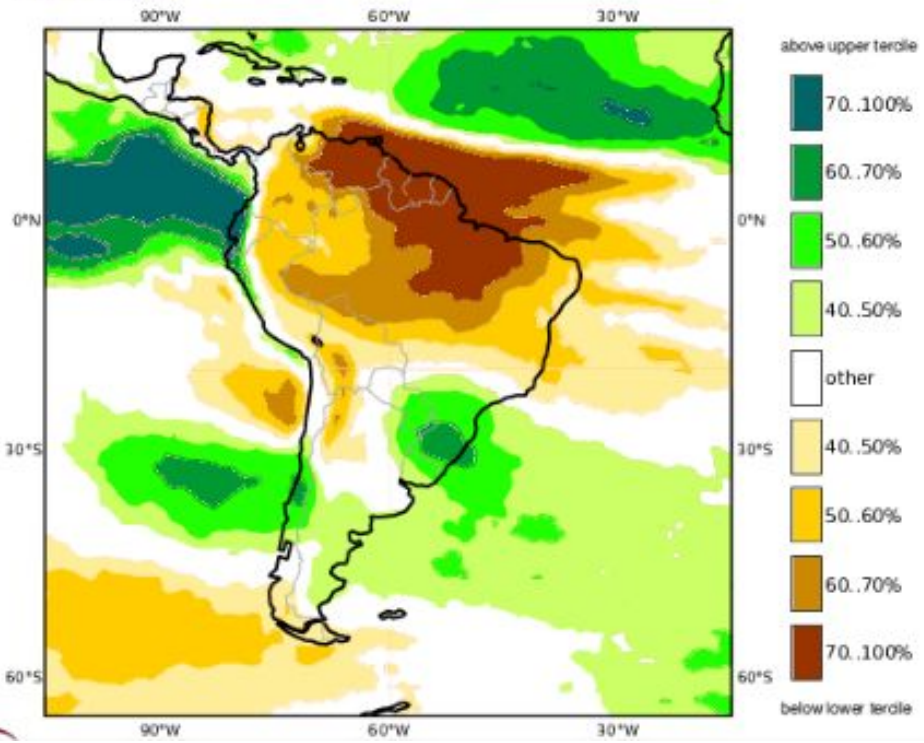
Previsão Sazonal de Chuva SON



Previsão Multi Modelo SON

C3S multi-system seasonal forecast
Prob(most likely category of precipitation)
Nominal forecast start: 01/08/23
Unweighted mean

SON 2023



NMME Precipitation Anomalies (mm/day)
Sep2023–Nov2023 August2023 initial conditions

