



CEMADEN

Centro Nacional de Monitoramento e
Alertas de Desastres Naturais

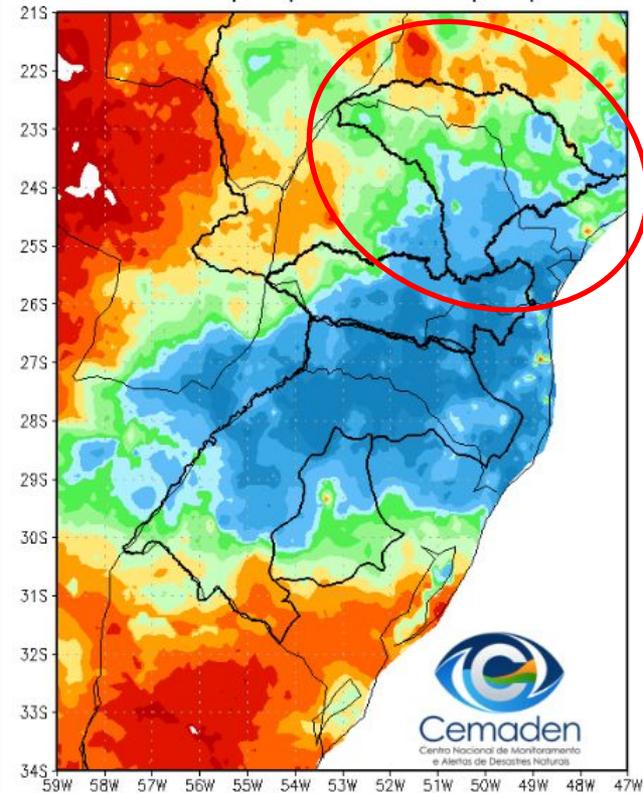
Monitoramento, Previsões e Projeções para a Bacia do Rio Paranapanema

Outubro de 2023

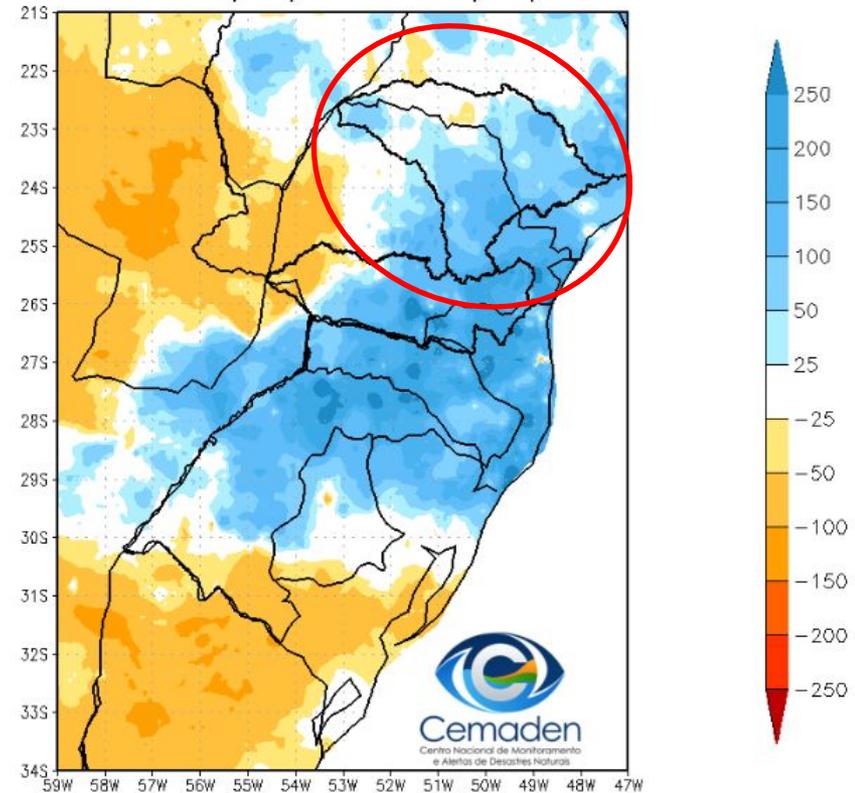


Precipitação acumulada Ano Hidrológico

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

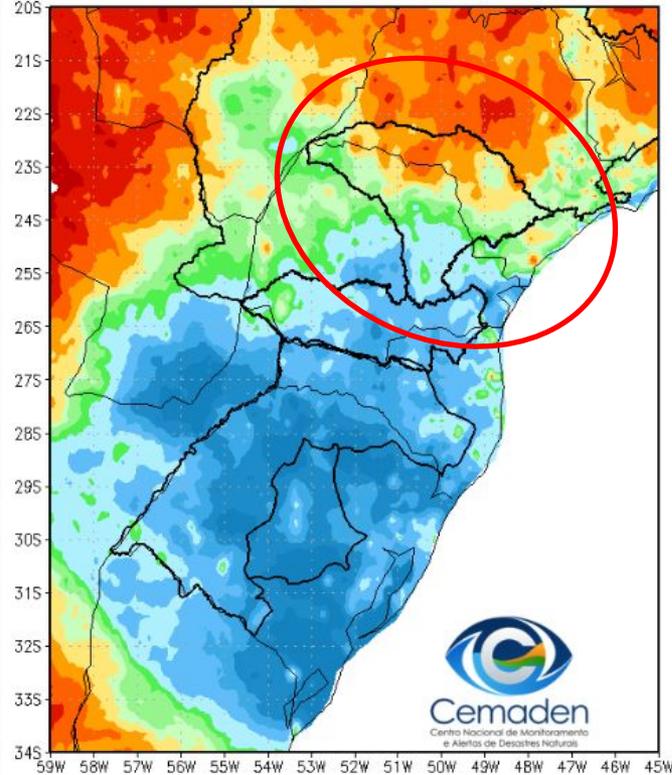


Anomalia de Precipitação (mm) A.S.
Período: 01/10/2023 a 25/10/2023

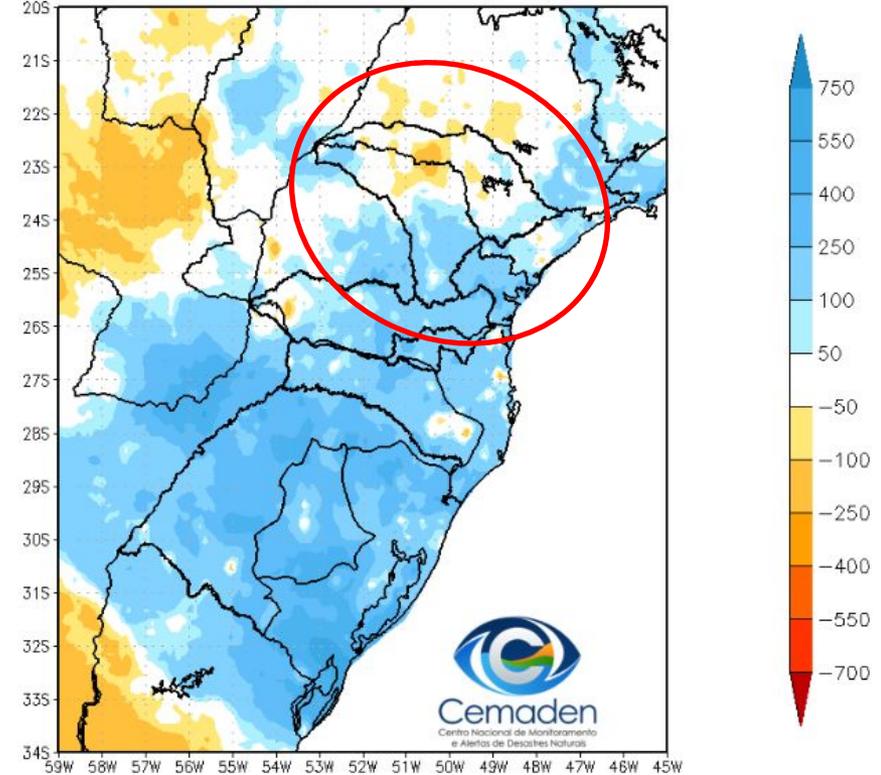


Precipitação acumulada AGOSTO-SETEMBRO-OUTUBRO

Precipitação Acumulada (mm) A.S.
Período: 27/07/2023 a 25/10/2023



Anomalia de Precipitação (mm) A.S.
Período: 27/07/2023 a 25/10/2023



Monitoramento da situação da chuva e da seca na bacia do rio Paranapanema

DIAGNÓSTICO: OUTUBRO/2023



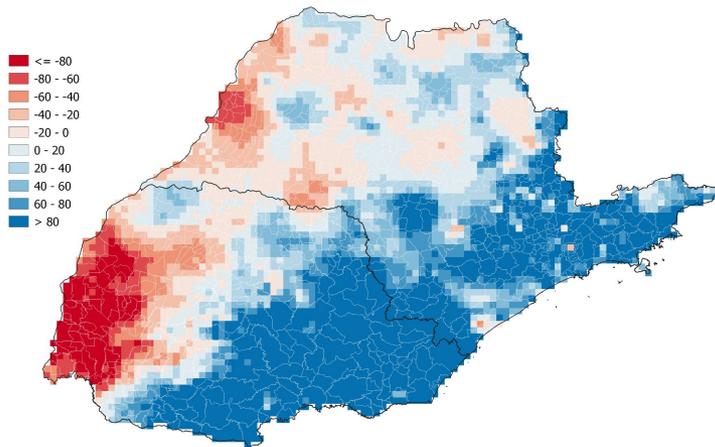
MINISTÉRIO DA
CIÊNCIA, TECNOLOGIA
E INOVAÇÕES



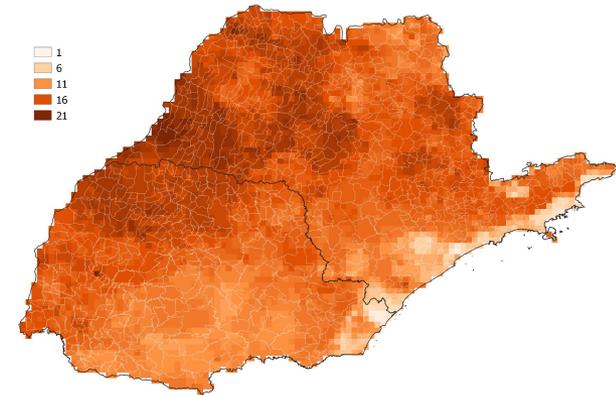


PRECIPITAÇÃO: OUTUBRO 2023 (ATÉ 24/10)

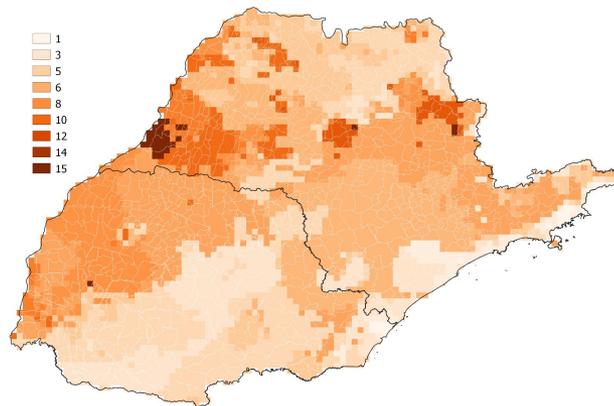
Anomalia (mm)



Total de dias sem chuva



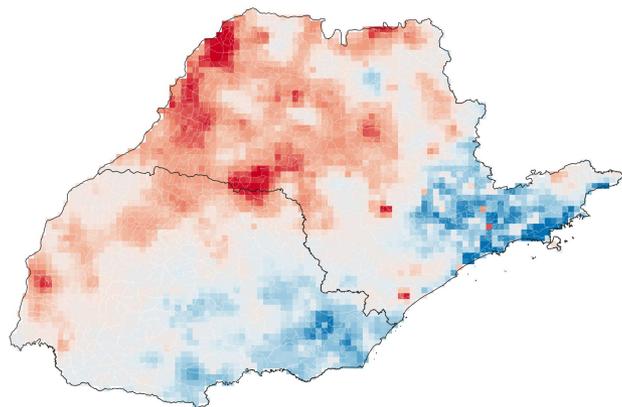
Máximo de dias consecutivos sem chuva



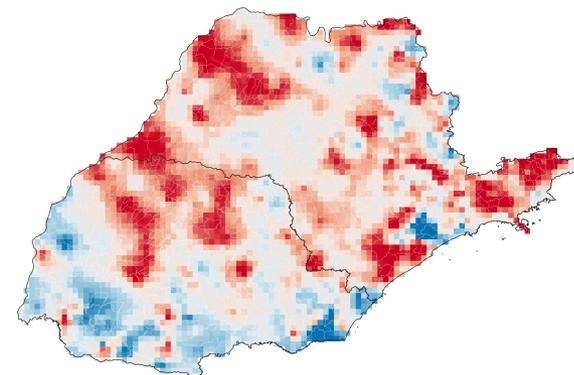


SPI: OUTUBRO 2023

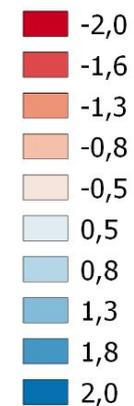
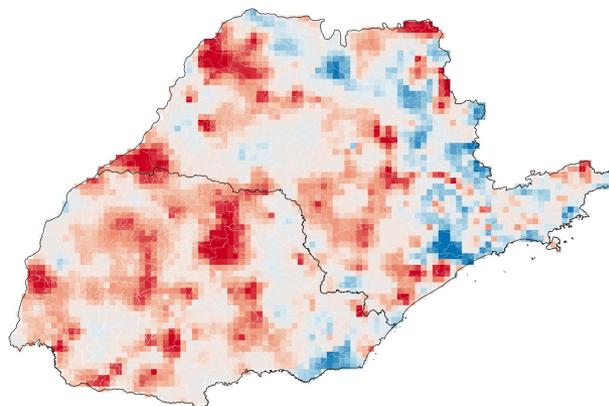
SPI03



SPI24



SPI12

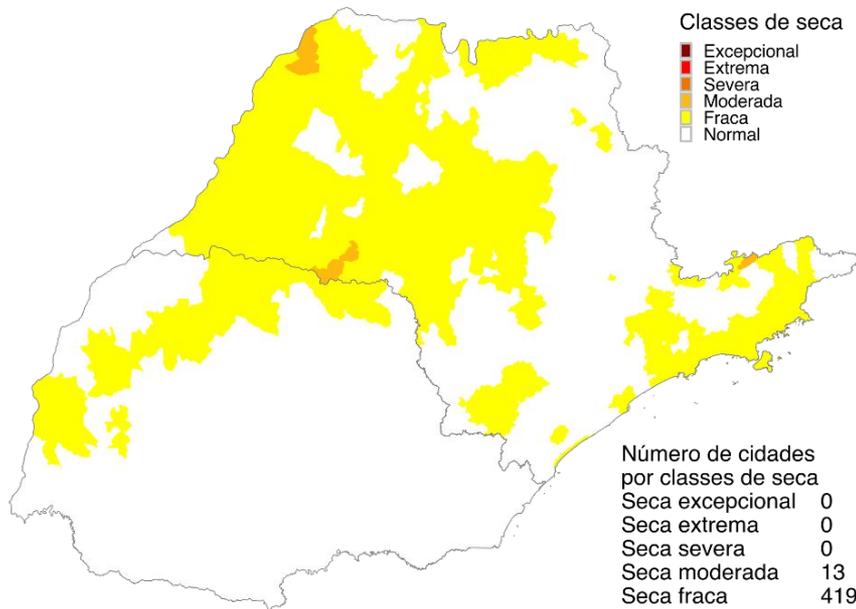




ÍNDICE INTEGRADO DE SECA - IIS

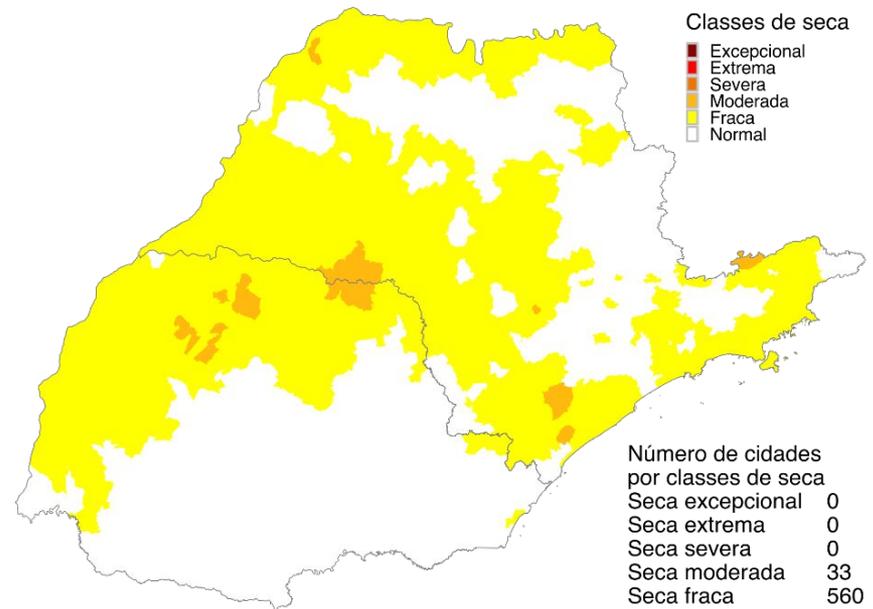
(SPI3 E 6 + VHI + AUS): OUTUBRO/2023

IIS 3 MESES



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

IIS 6 MESES

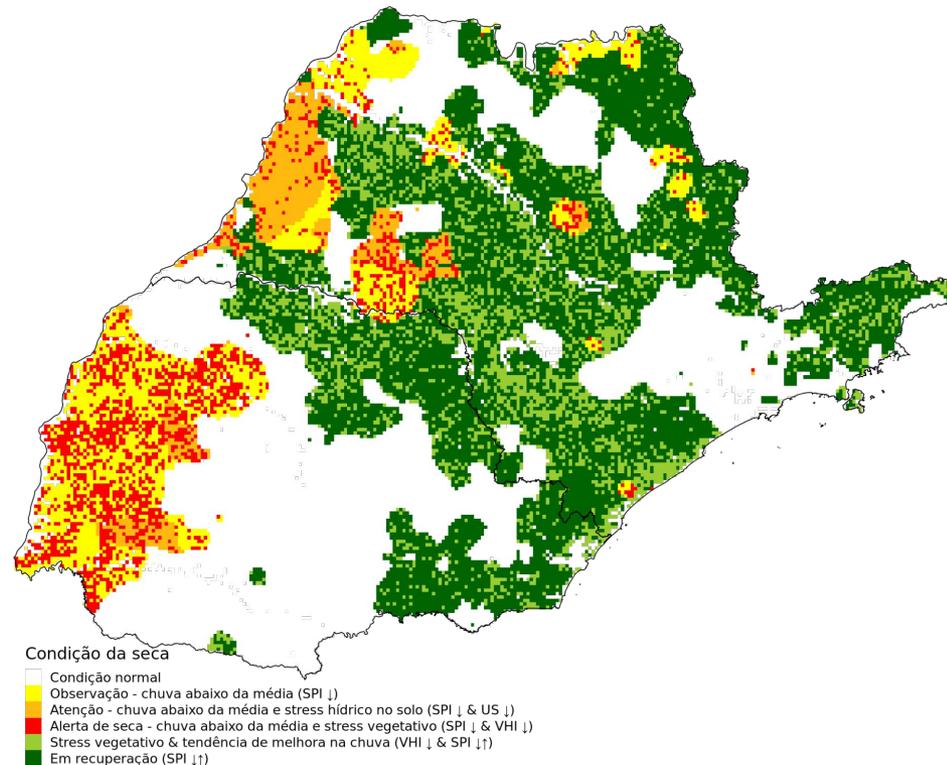


Outubro 2023
Índice Integrado de Seca (SPI6, VHI, US)
Dados: CPTEC/INPE - NOAA - NASA / Preparação: Cemaden/MCTI

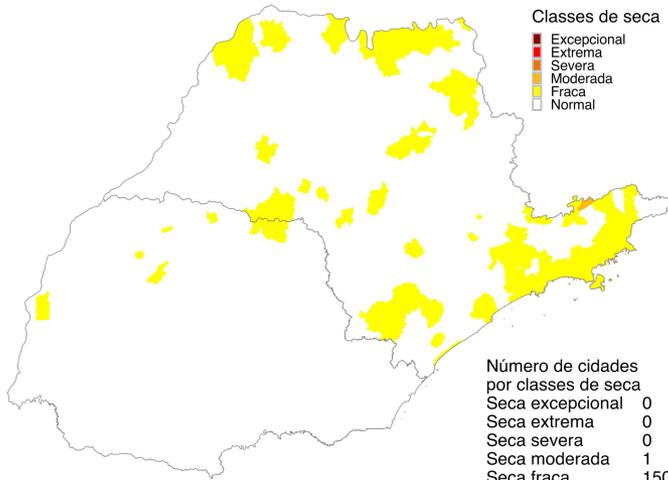


PROGRESSÃO INCREMENTAL DAS CONDIÇÕES DE SECA (PICS) OUTUBRO 2023 (ATÉ 25/10)

Propagação Incremental das Condições de Seca (PICS)
Outubro 2023



CHUVA 40% ACIMA DA MÉDIA



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

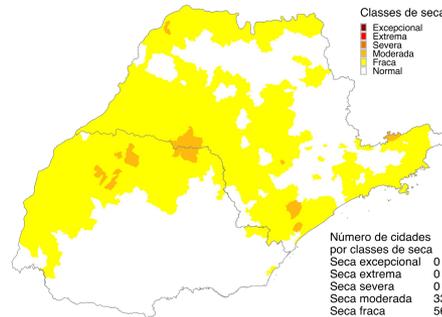
Novembro/23

IIS



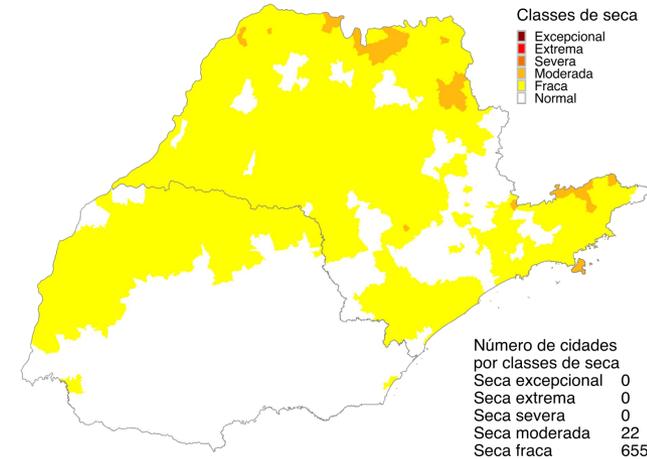
IIS OBSERVADO (IIS6)

Outubro/23



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

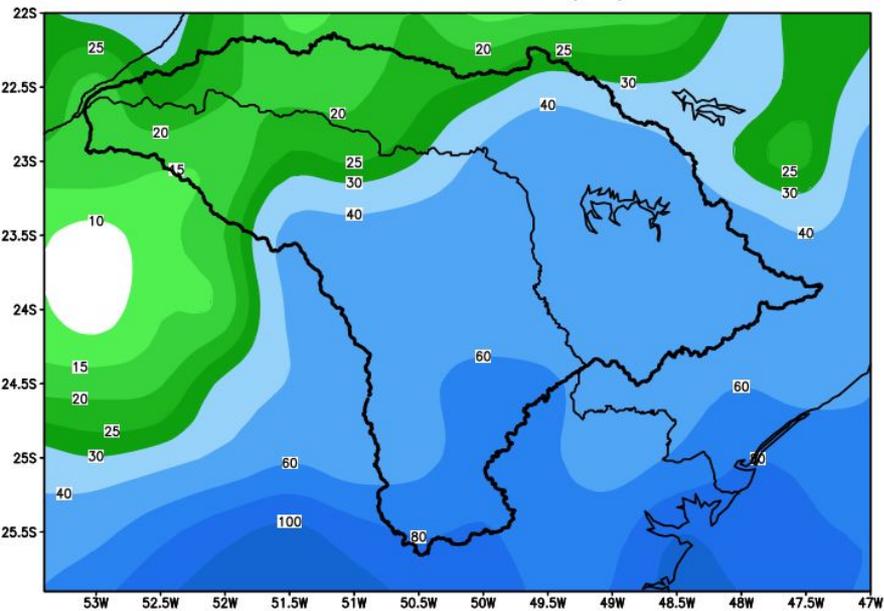
CHUVA 40% ABAIXO DA MÉDIA



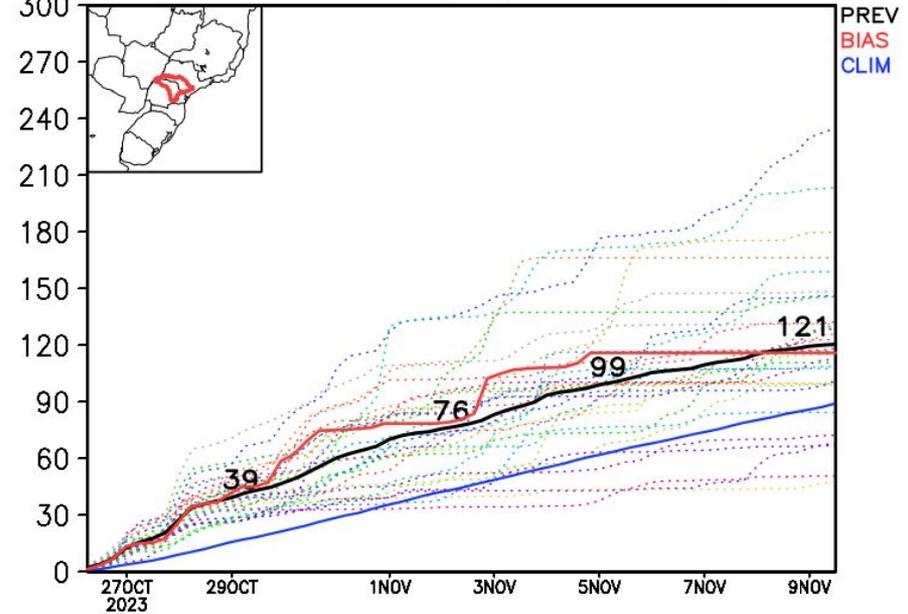
Novembro 2023
Índice Integrado de Seca (SPI6, VHI, AUS)
Cenário: Chuva -40%
Dados: CPTEC/INPE - NOAA - NASA / Preparação: Cemaden/MCTI

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 26/10/2023

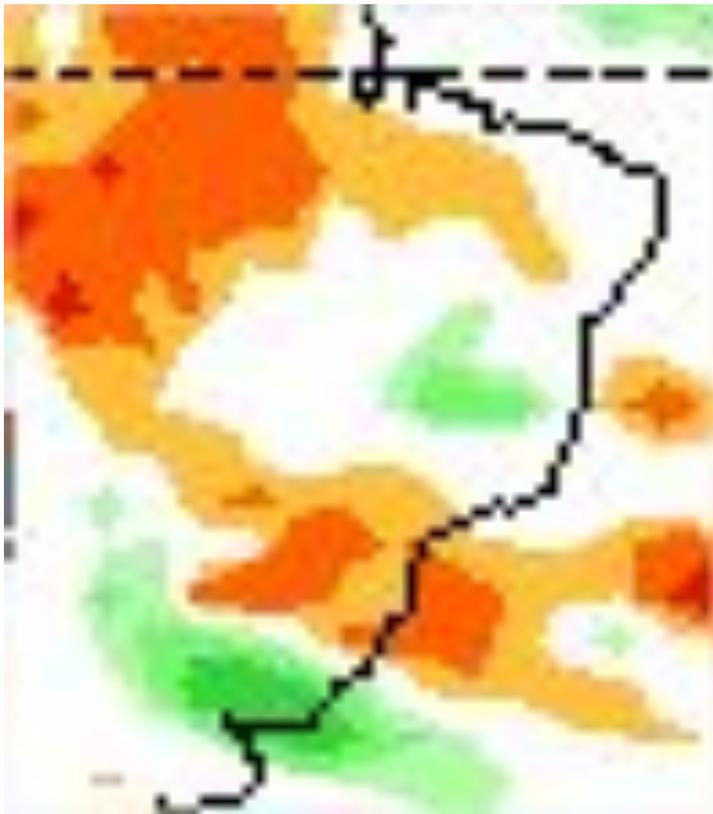


Precipitacao acumulada (mm): Bacia Paranapanema

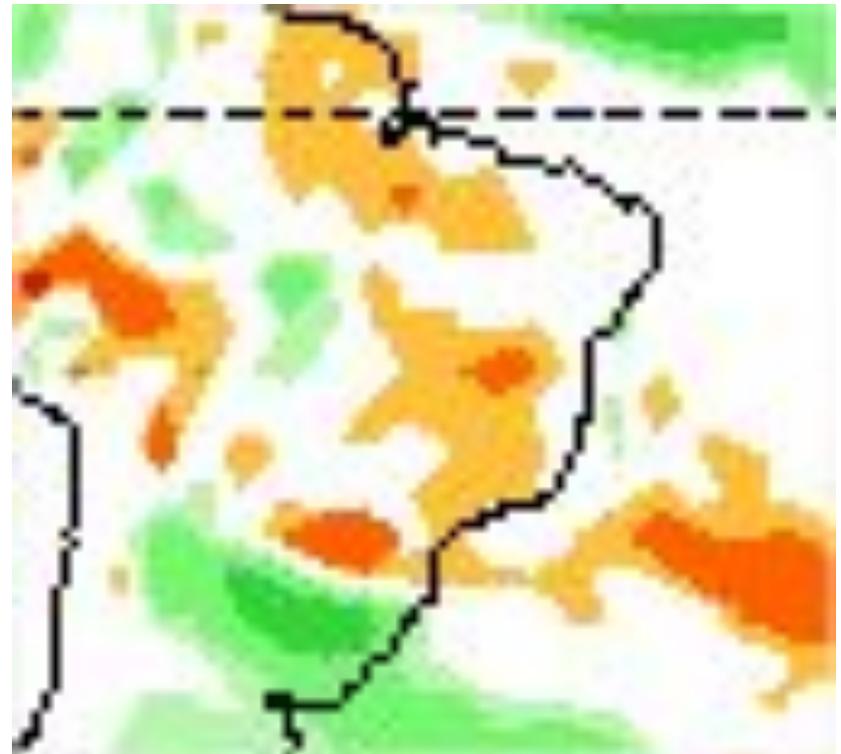


Tendência 3a e 4a semanas

09 - 15 NOVEMBRO

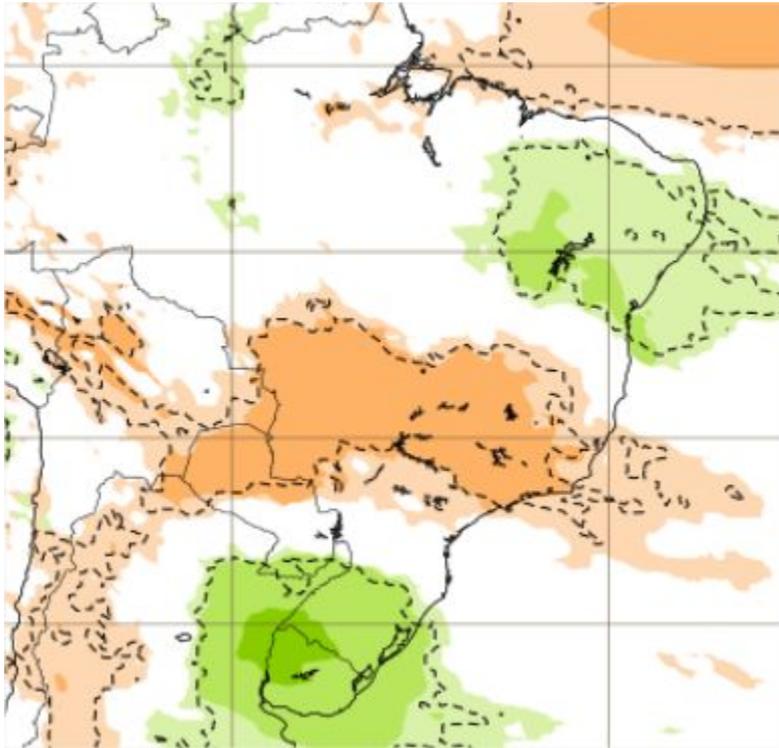


16 - 22 NOVEMBRO

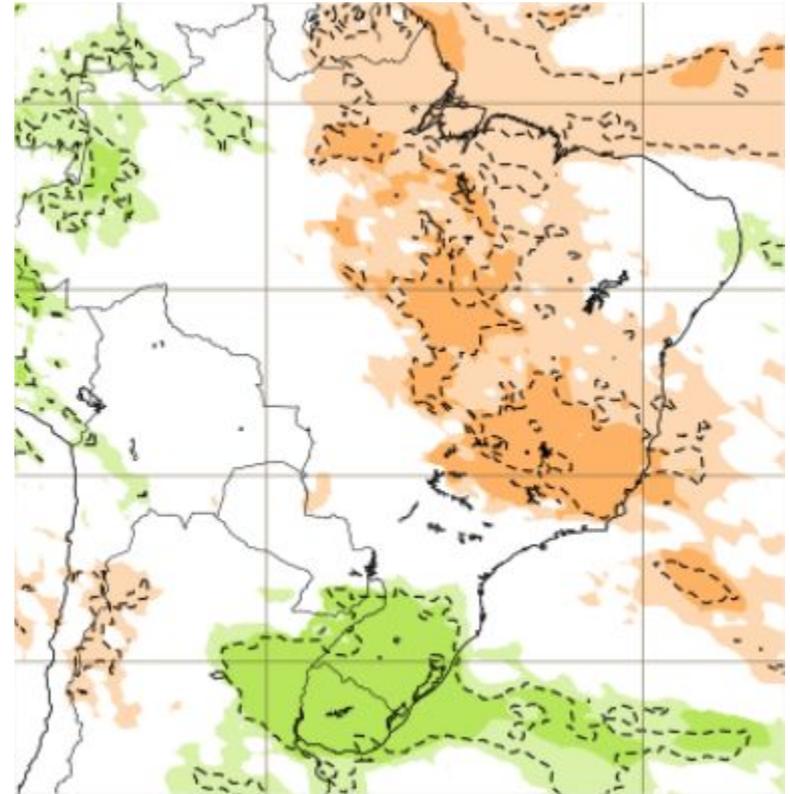


Tendência para 3ª e 4ª semanas

06-12 NOVEMBRO

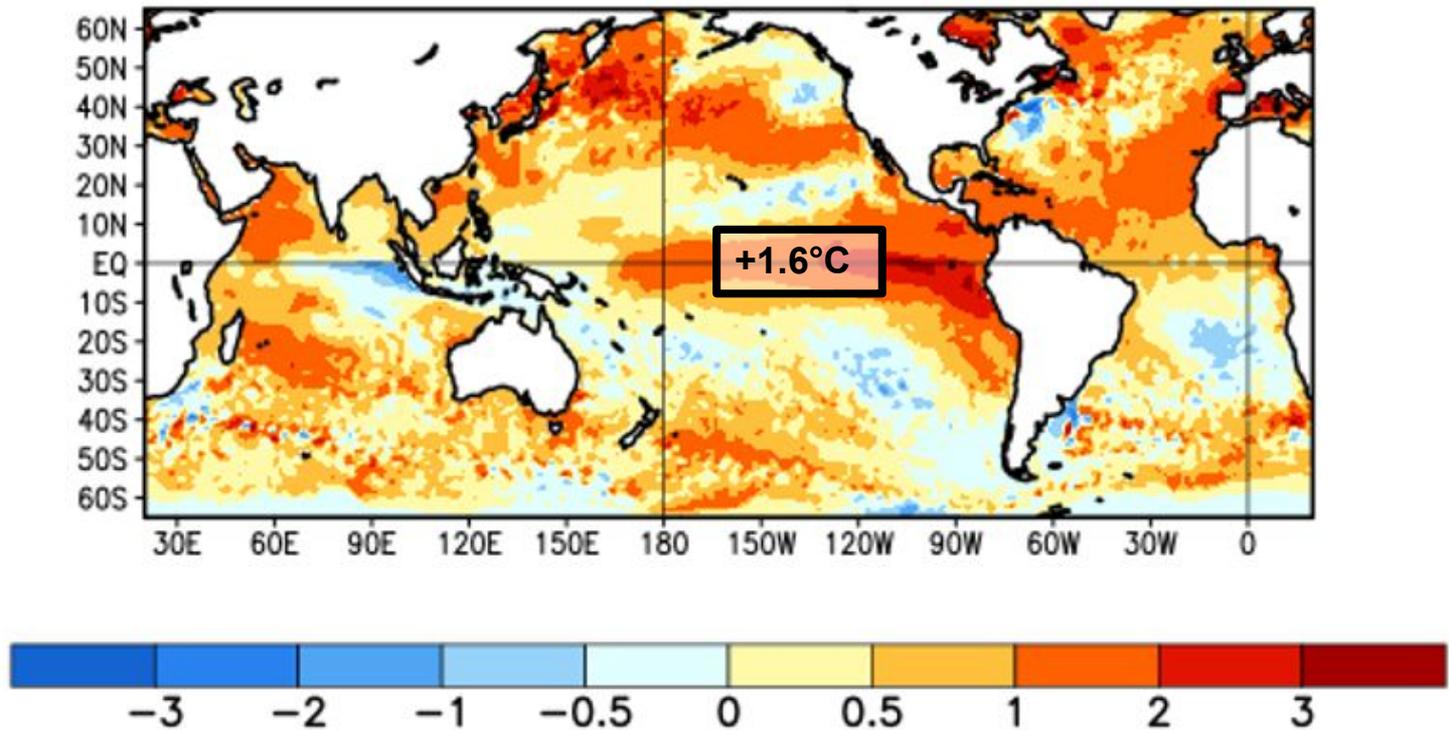


13-19 NOVEMBRO

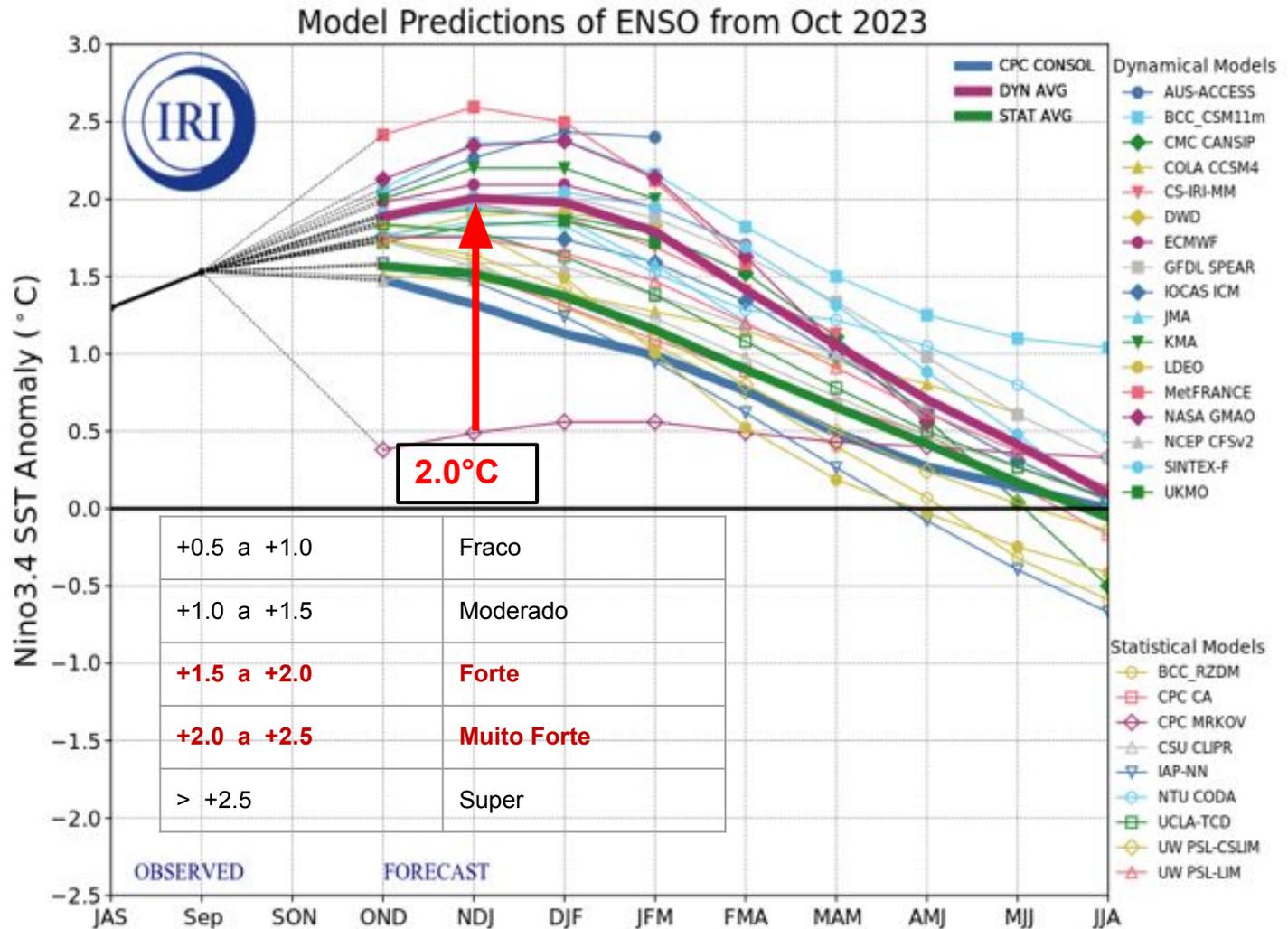


Evolução: El Niño

Average SST Anomalies
24 SEP 2023 – 21 OCT 2023

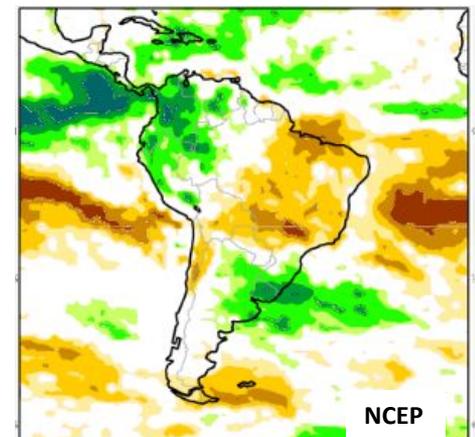
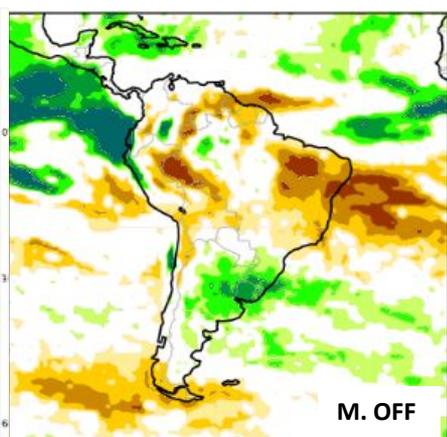
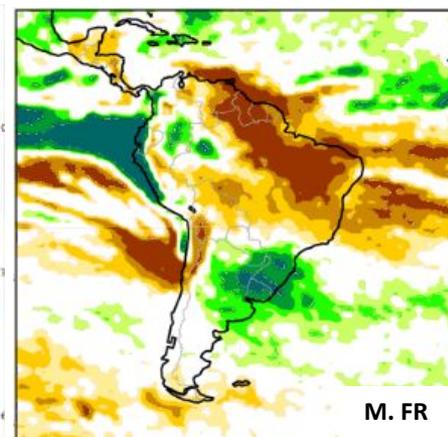
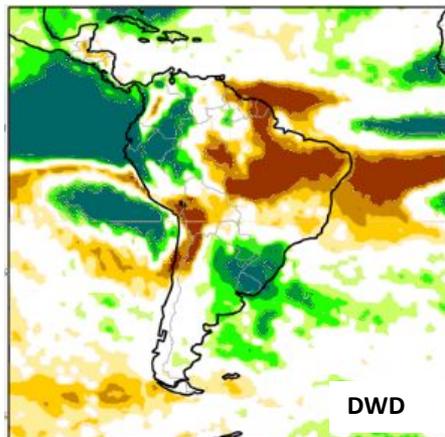
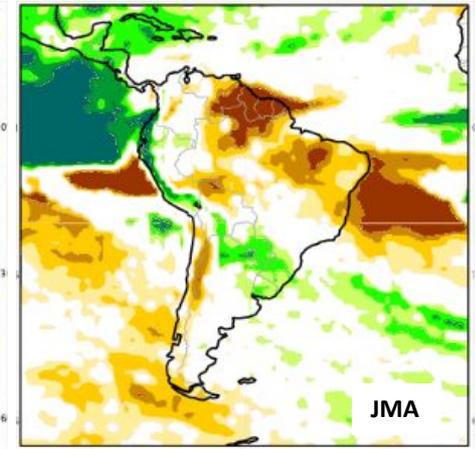
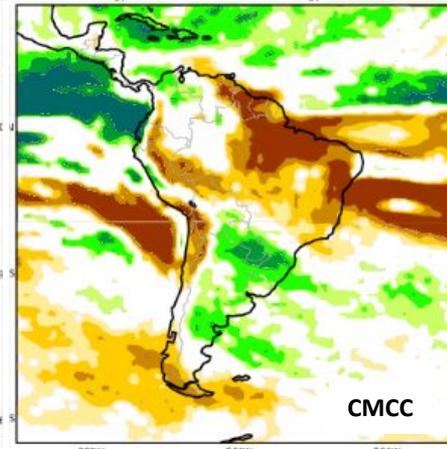
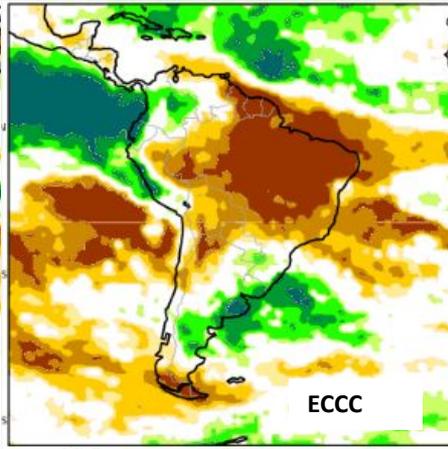
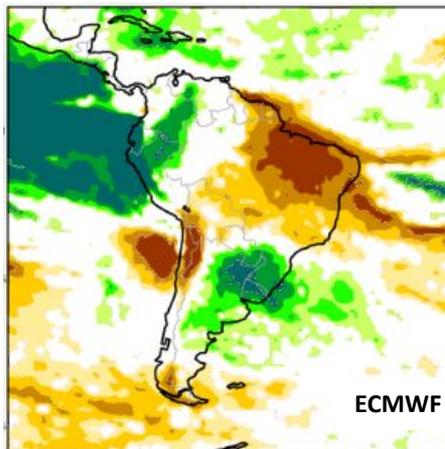
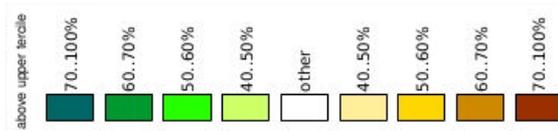


Previsão do “ENSO”

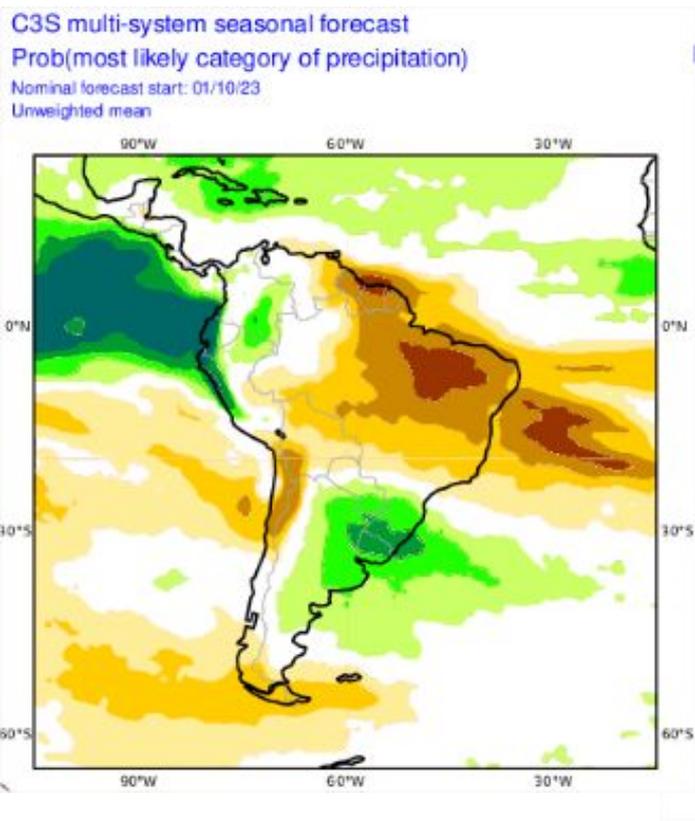


Atualizado:
19 de outubro

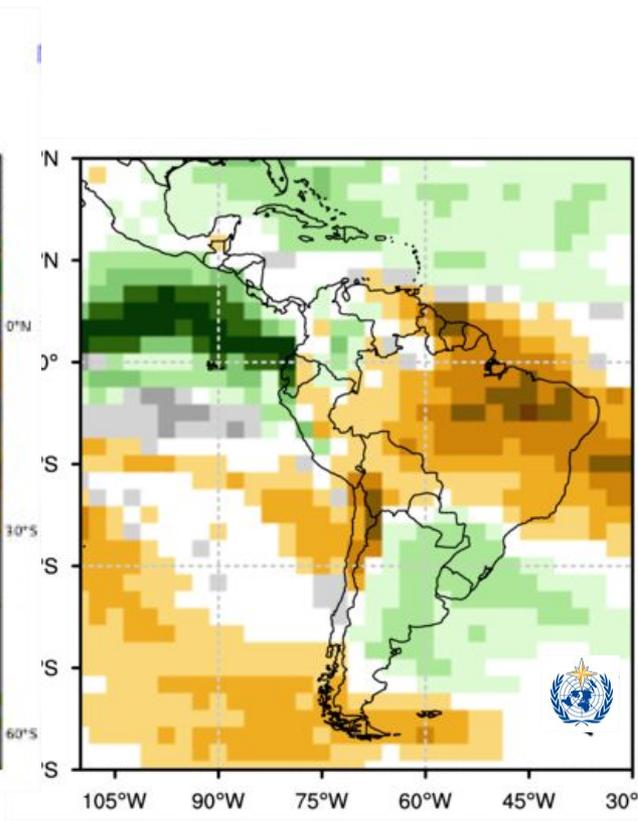
Previsão Sazonal de Chuva Nov-Dez-Jan



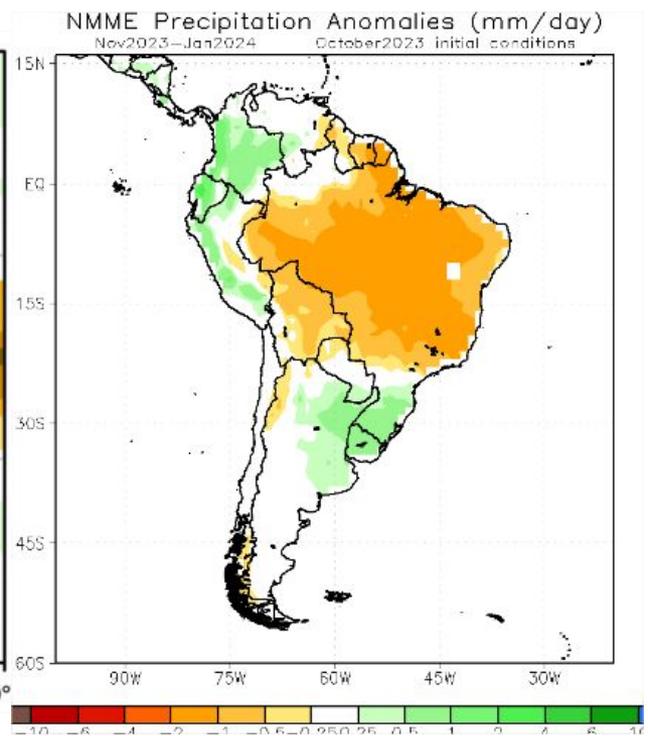
Previsão Multi-Modelo NOV-DEZ-JAN



Modelos Europeus



Modelos da Organização
Meteorológica Mundial



Modelos Americanos