

Monitoramento da situação do El Niño na Região Nordeste

16 DE NOVEMBRO/ 2023



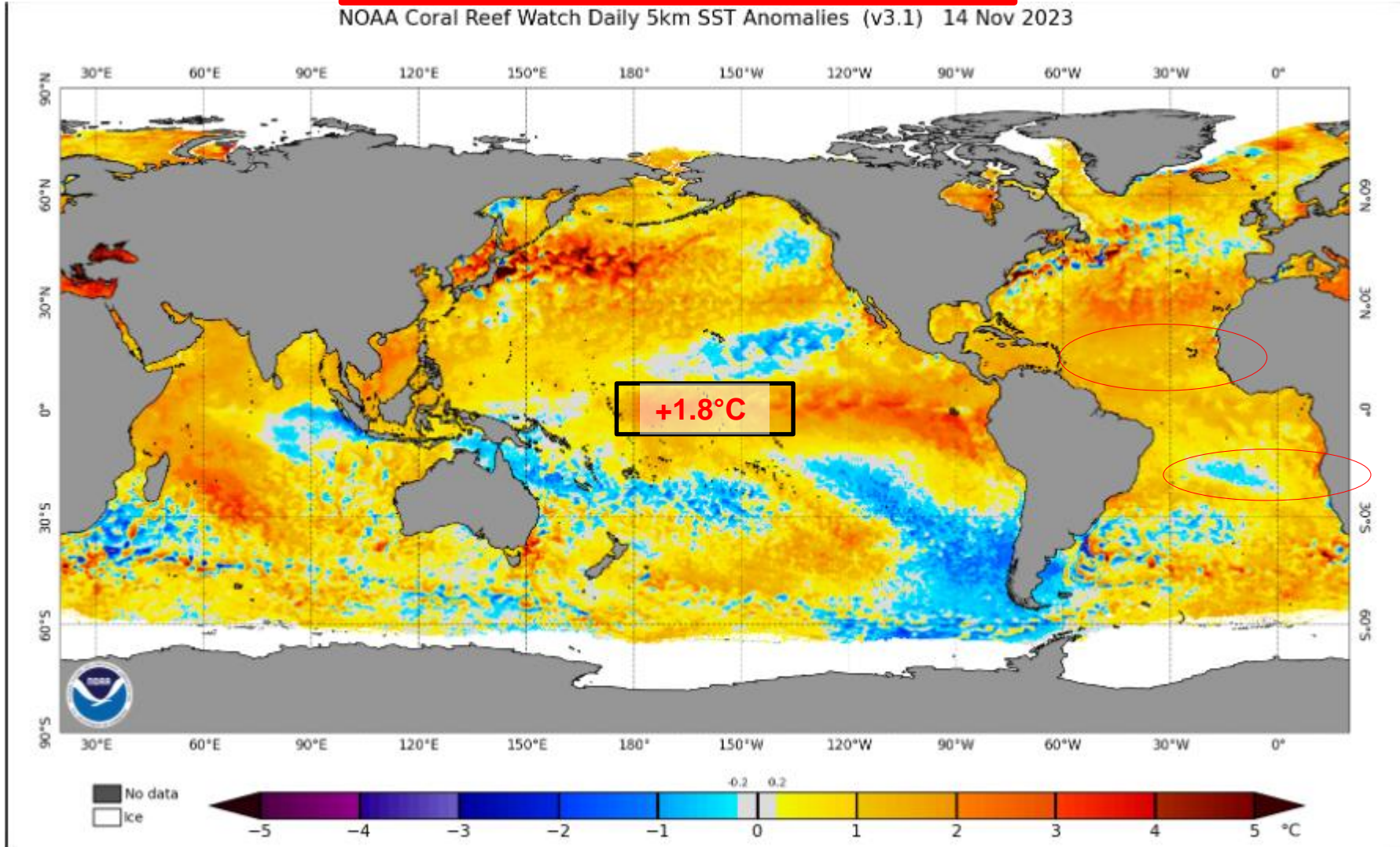
MINISTÉRIO DA
CIÊNCIA, TECNOLOGIA
E INOVAÇÃO





Status Atual: **El Niño**

NOAA Coral Reef Watch Daily 5km SST Anomalies (v3.1) 14 Nov 2023

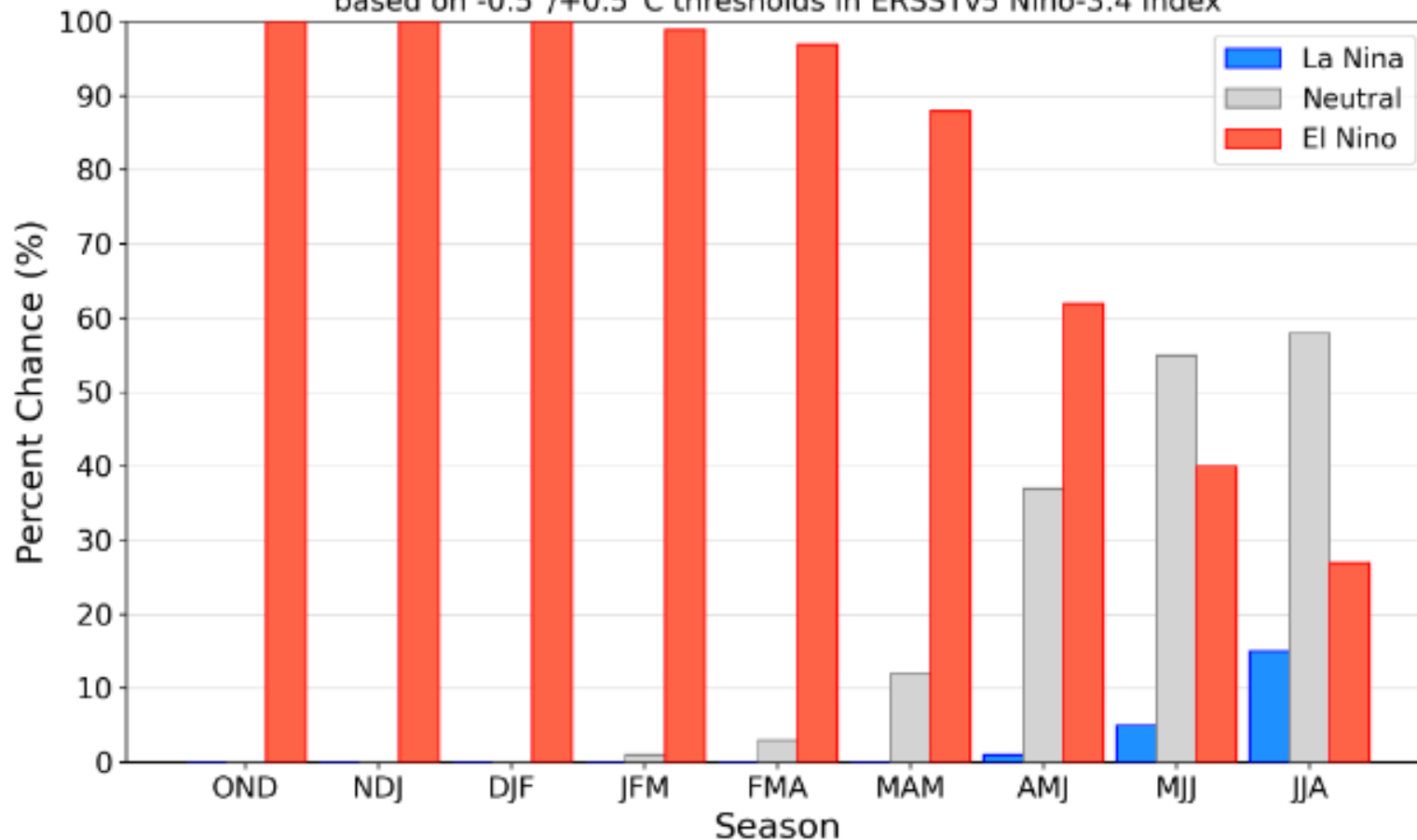




Previsão do “ENSO”

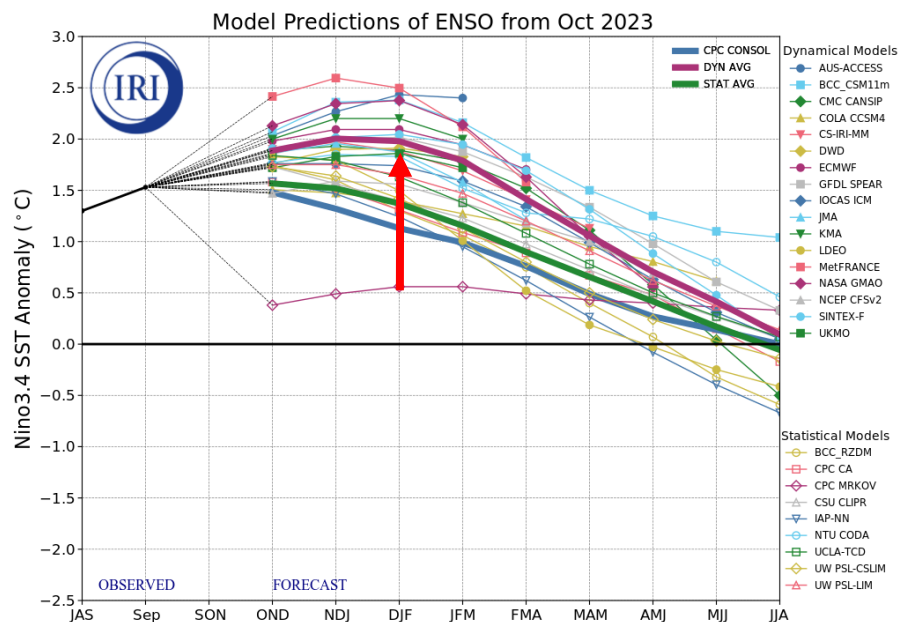
Official NOAA CPC ENSO Probabilities (issued Nov. 2023)

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





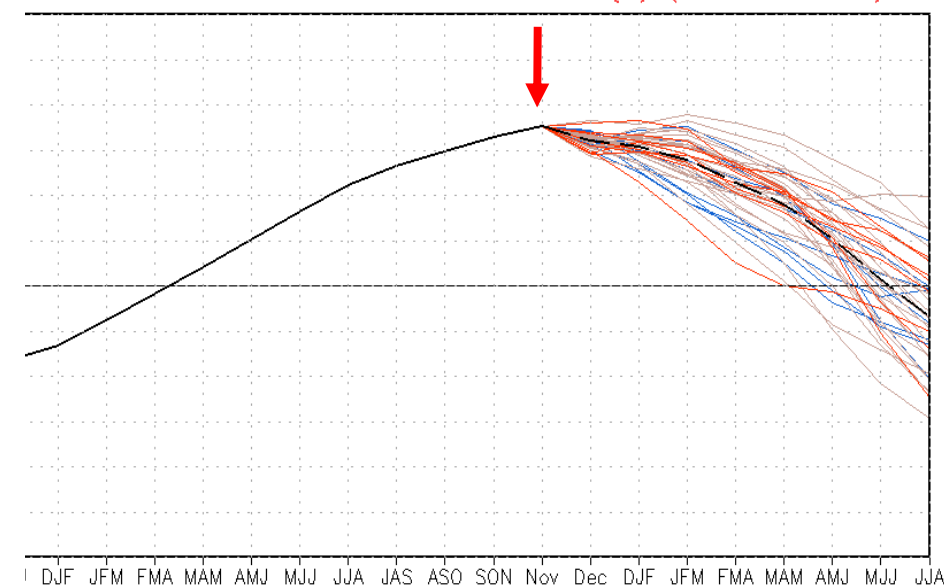
Previsão do “ENSO”



Atualizado 19 de outubro

FONTE: NOAA

CFSv2 forecast Niño3.4 SST anomalies (K) (PDF corrected)

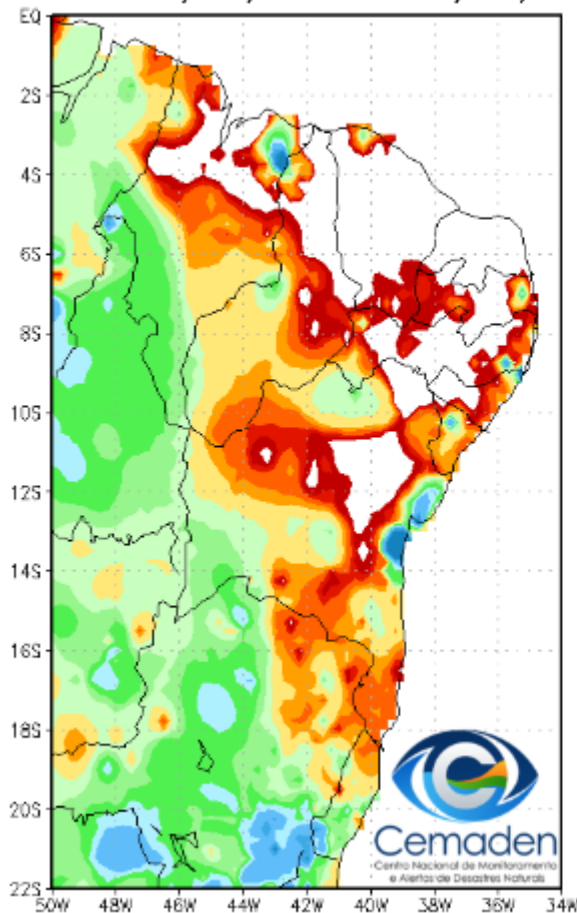


(Climatology base period: 1991–2020)

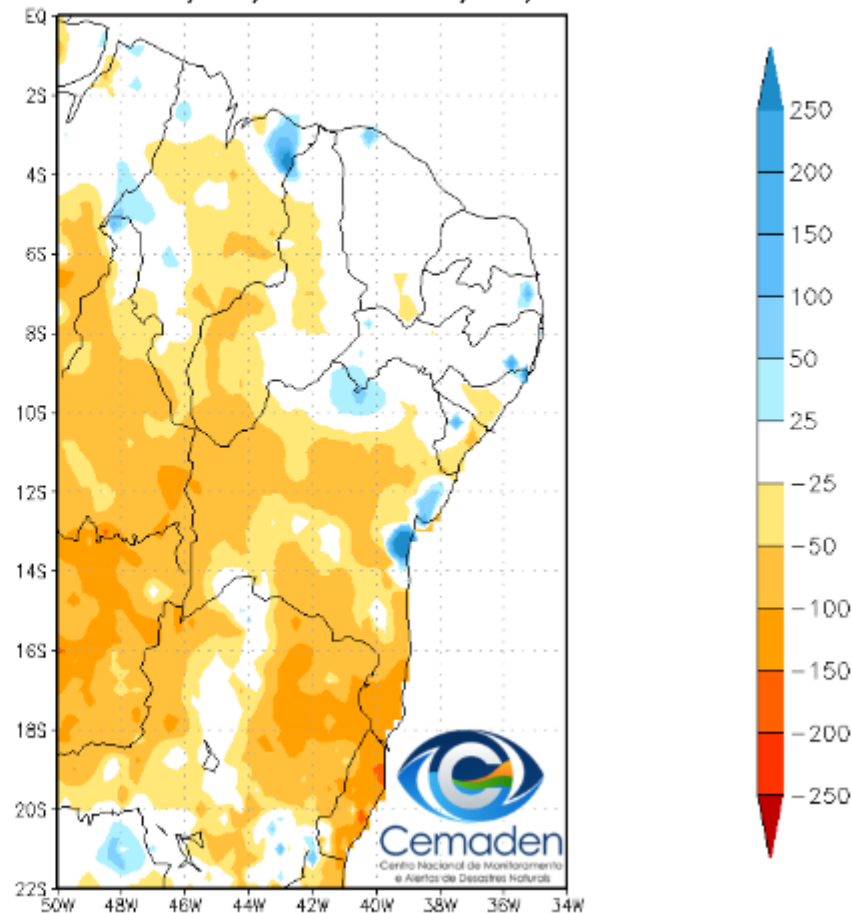
Atualizado 13 de novembro

Chuva dos últimos 30 dias

Precipitação Acumulada (mm)
Período: 15/10/2023 a 14/11/2023

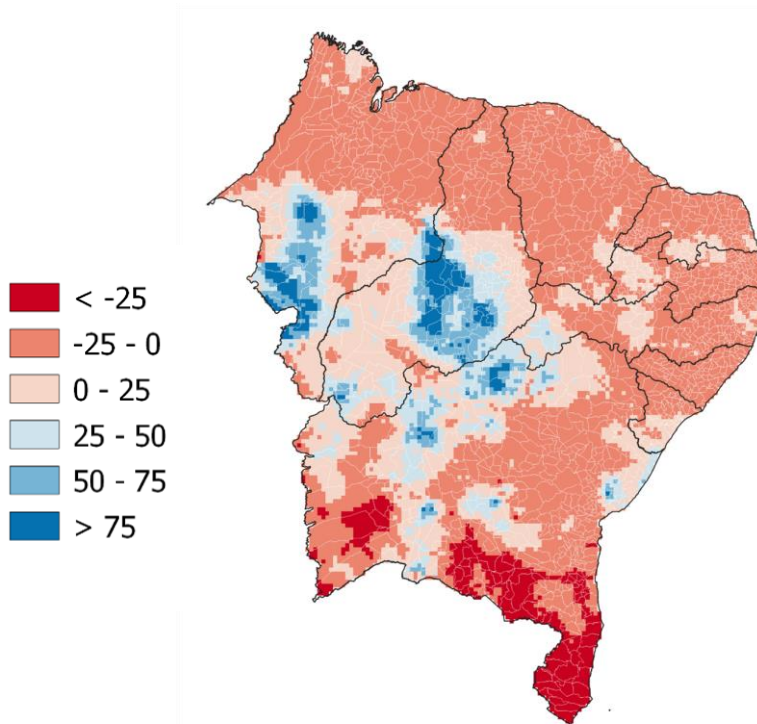


Anomalia de Precipitação (mm)
Período: 15/10/2023 a 14/11/2023

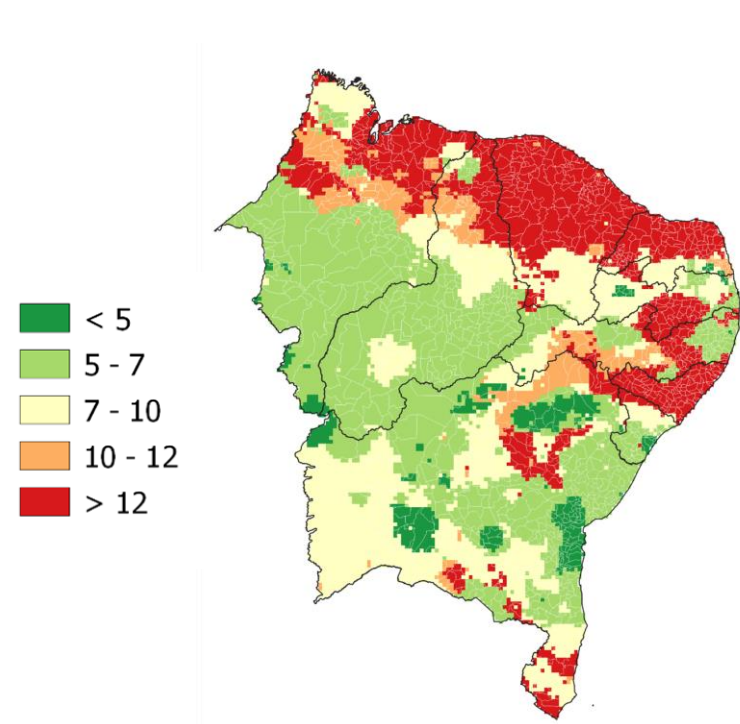


PRECIPITAÇÃO: NOVEMBRO 2023

Anomalia (mm)

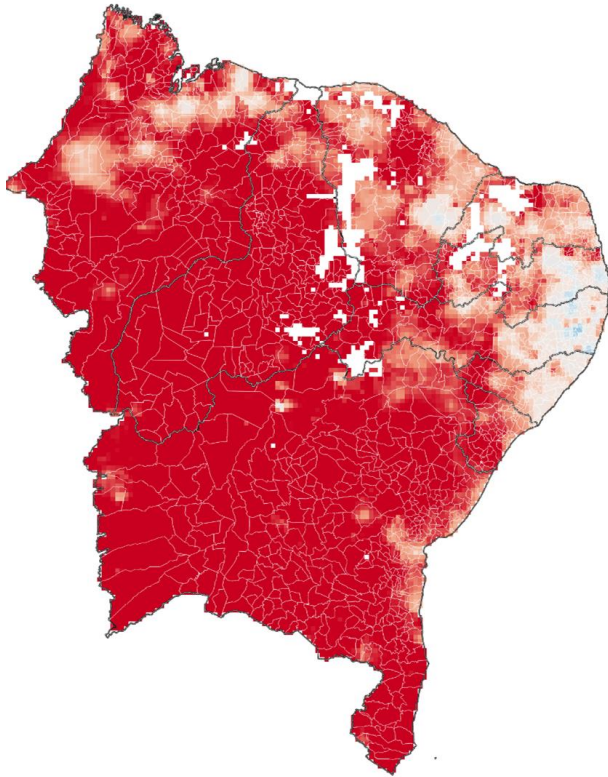


Máximo de dias consecutivos sem chuva

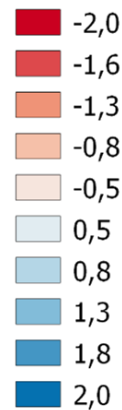
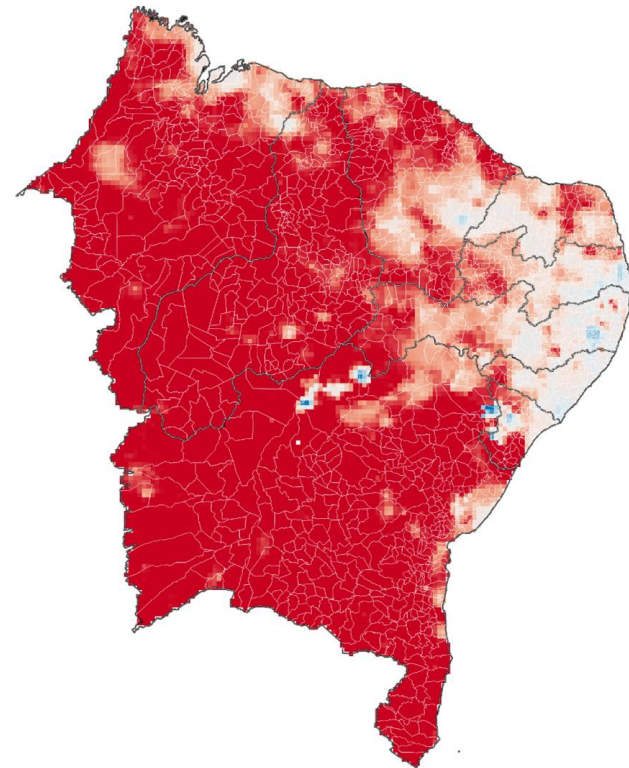


SPIs: NOVEMBRO 2023

SPI 03

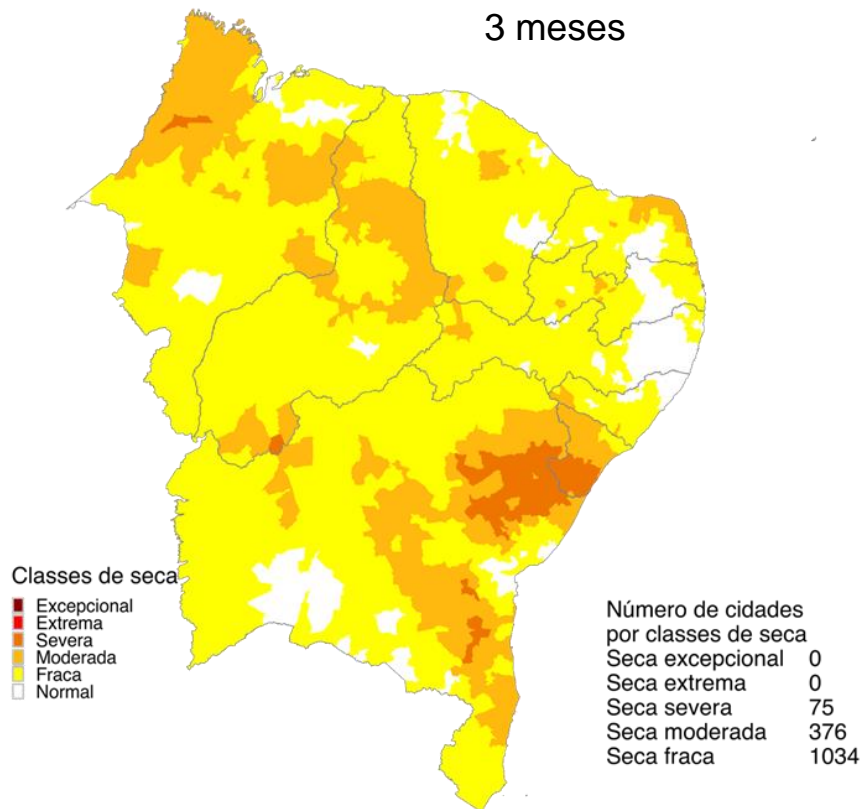


SPI 06

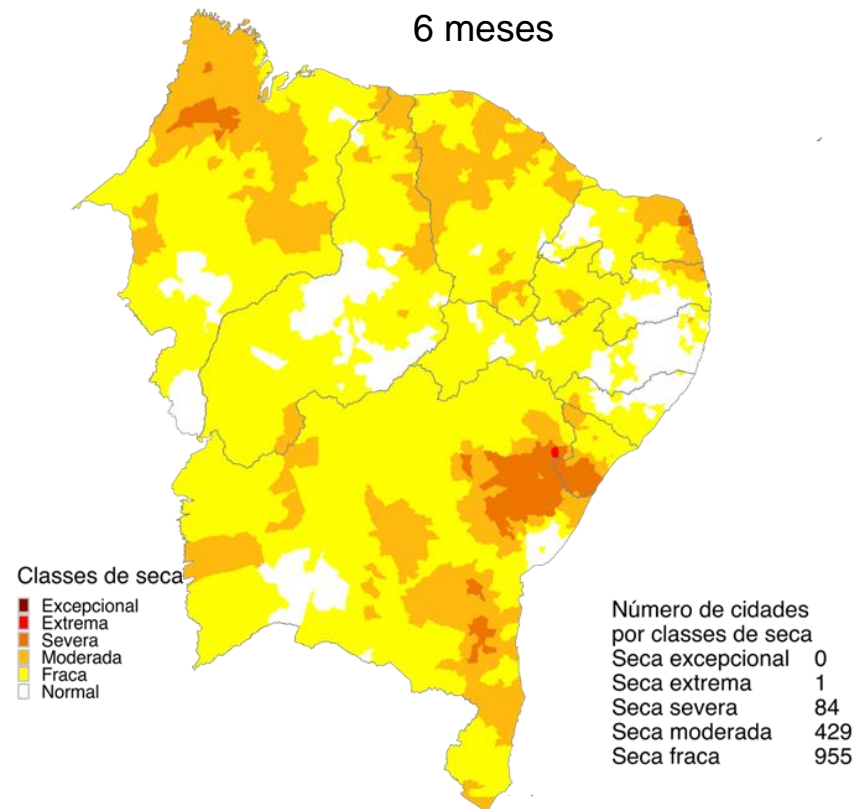


ÍNDICE INTEGRADO DE SECA - IIS (SPI + VHI + AUS)

3 meses



6 meses

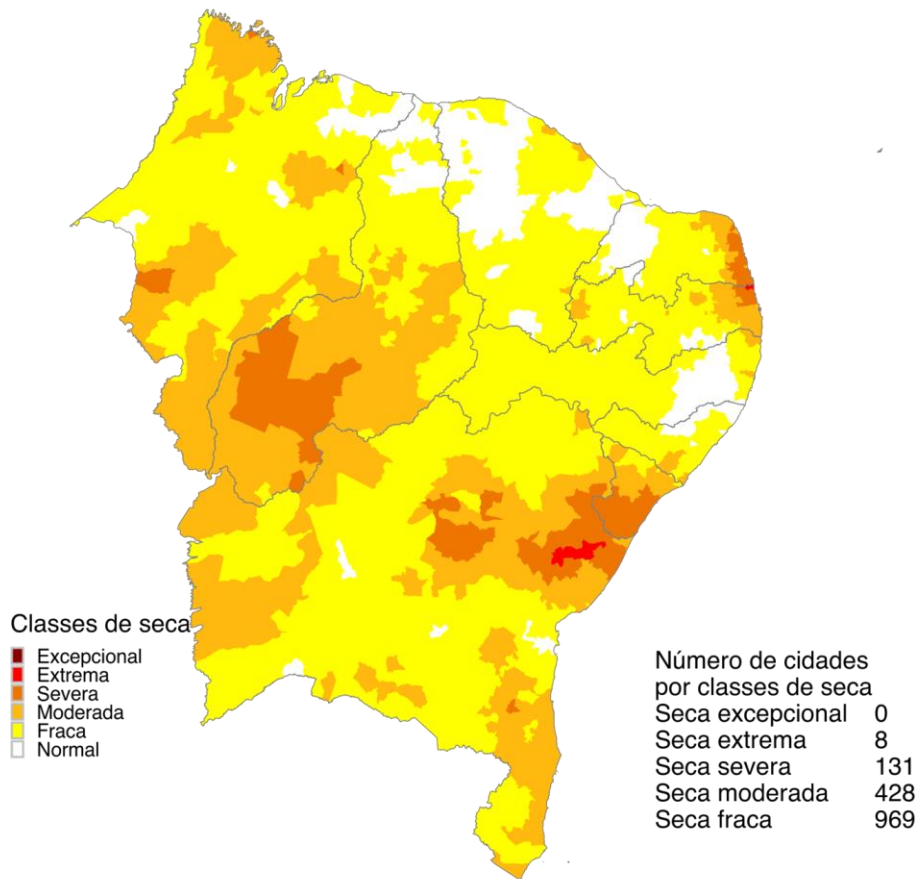


Outubro 2023
Índice Integrado de Seca (SPI3, VHI, US)
Dados: CPTEC/INPE - NOAA - NASA / Preparação: Cemaden/MCTI

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

ÍNDICE INTEGRADO DE SECA - IIS

(SPI1 + VHI + AUS): OUTUBRO/2023



ESTIMATIVA DE PESSOAS AFETADAS NO NEB

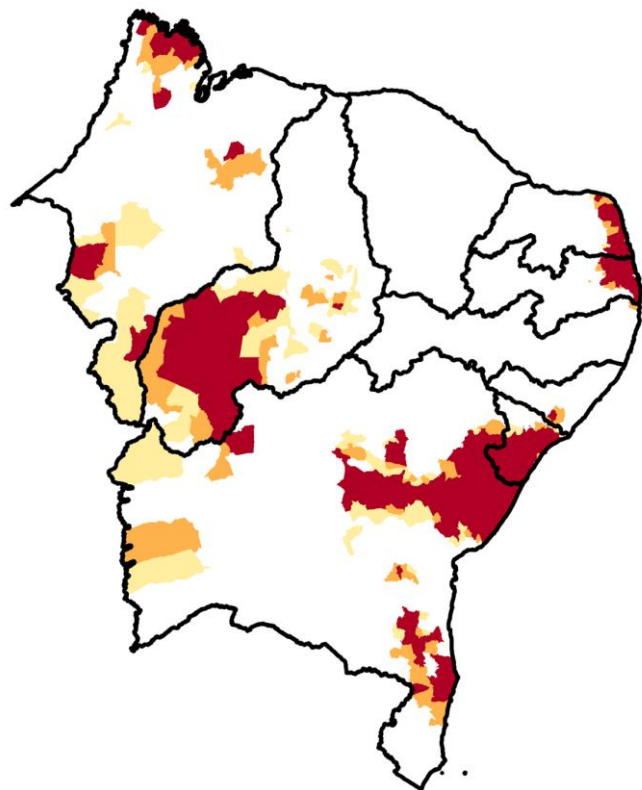
124.670 SECA EXTREMA

5.039.331 SECA SEVERA

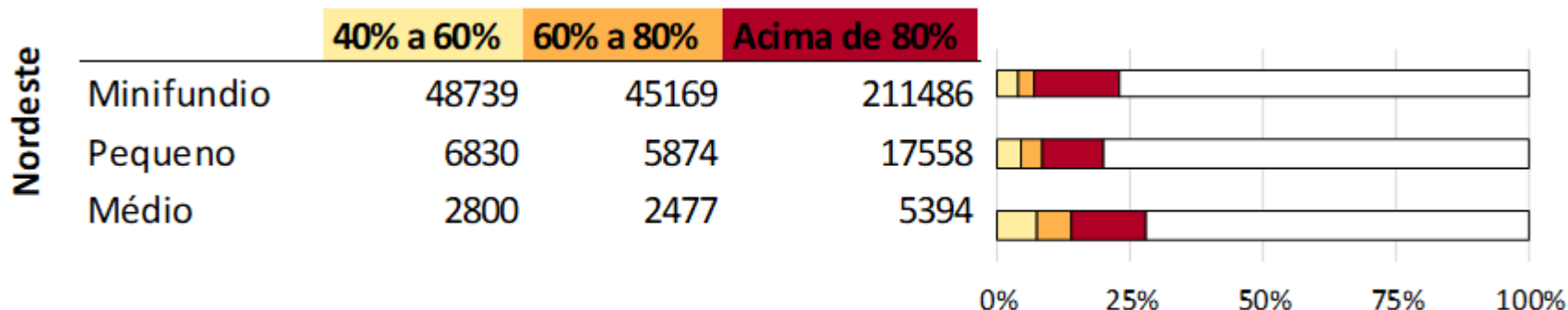
Outubro 2023
Índice Integrado de Seca (SPI1, VHI, US)
Dados: CPTEC/INPE - NOAA - NASA / Preparação: Cemaden/MCTI

Fonte: Estimativa população afetada IIS-01, Dados de população Censo 2022 (IBGE, 2023).

ÁREAS DE PASTAGENS E AGRÍCOLAS AFETADAS PELA SECA Nov/23

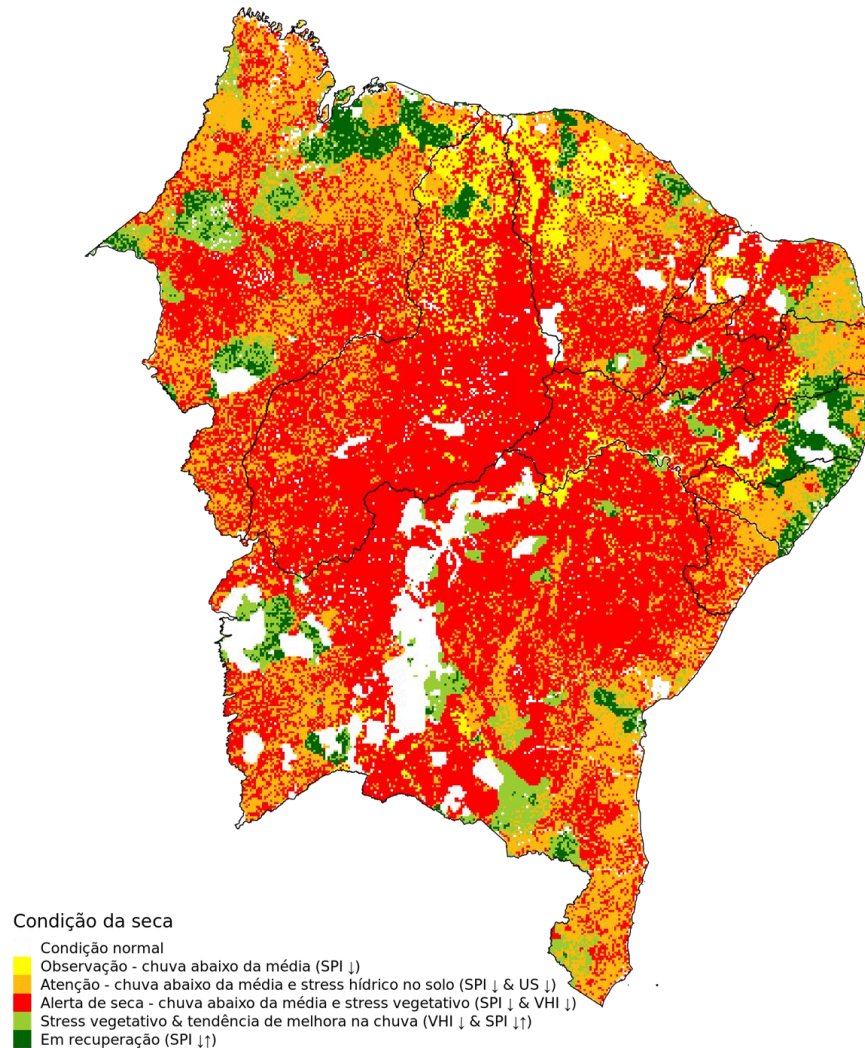


UF	40 a 60%	60 - 80%	> 80%
AL	95		4
BA	260	21	25
MA	178	10	13
PB	174		6
PE	184		1
PI	162	23	14
RN	128	2	5
SE	15	4	4

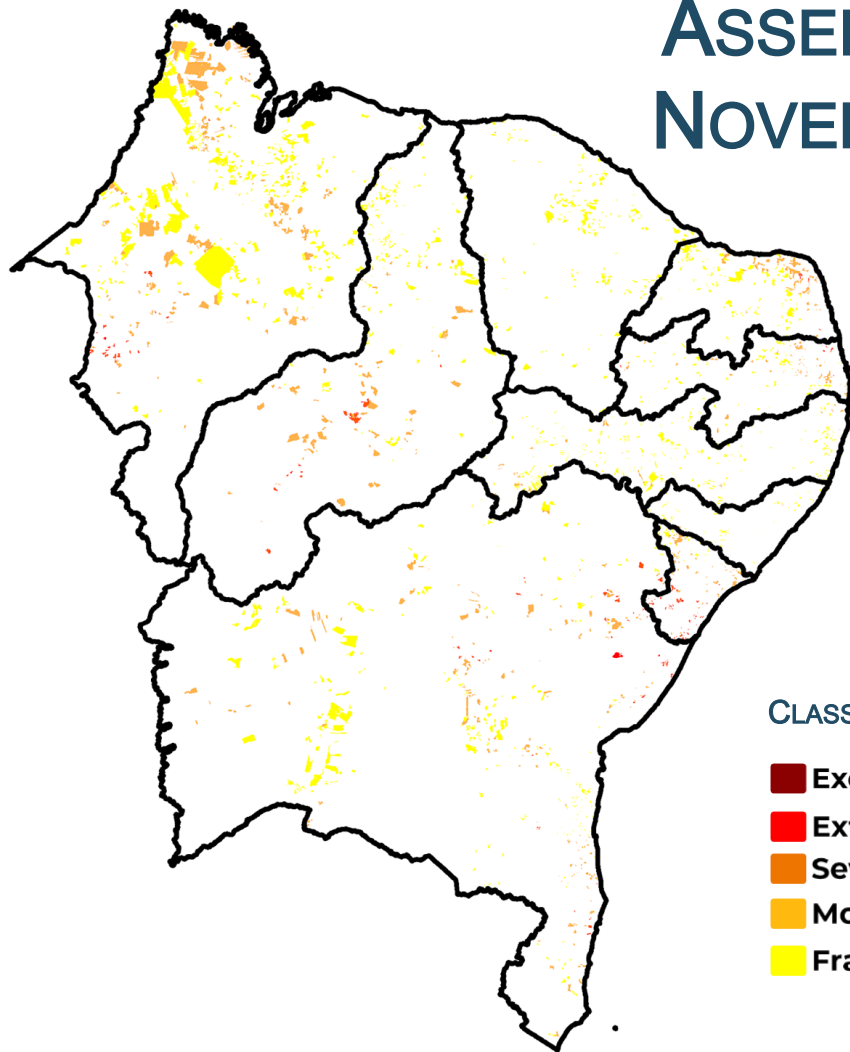


PROGRESSÃO DAS CONDIÇÕES DE SECA (PCS)

Propagação Incremental das Condições de Seca (PICS)



ÍNDICE INTEGRADO DE SECA (IIS-01) EM PROJETOS DE ASSENTAMENTO: NOVEMBRO 2023



CLASSE DE SECA

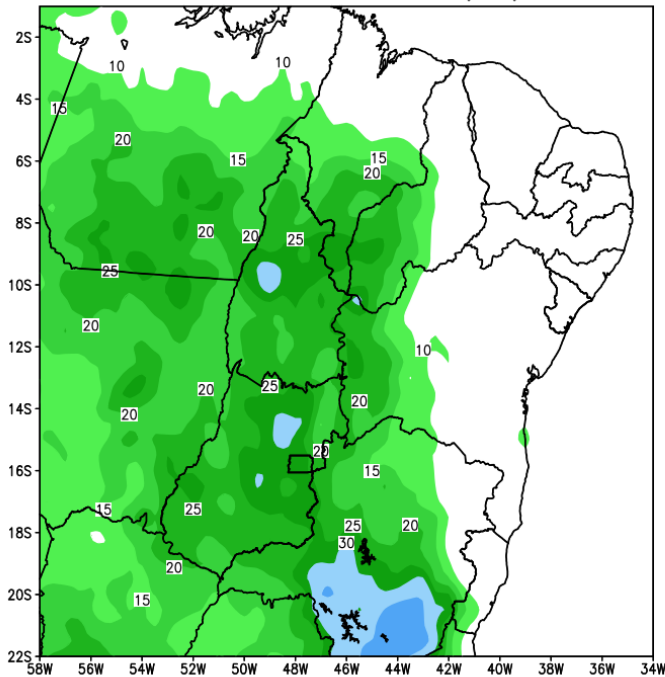
- Excepcional
- Extrema
- Severa
- Moderada
- Fraca

NÚMERO DE FAMÍLIAS EM PROJETO DE ASSENTAMENTO POR CATEGORIA DE SECA

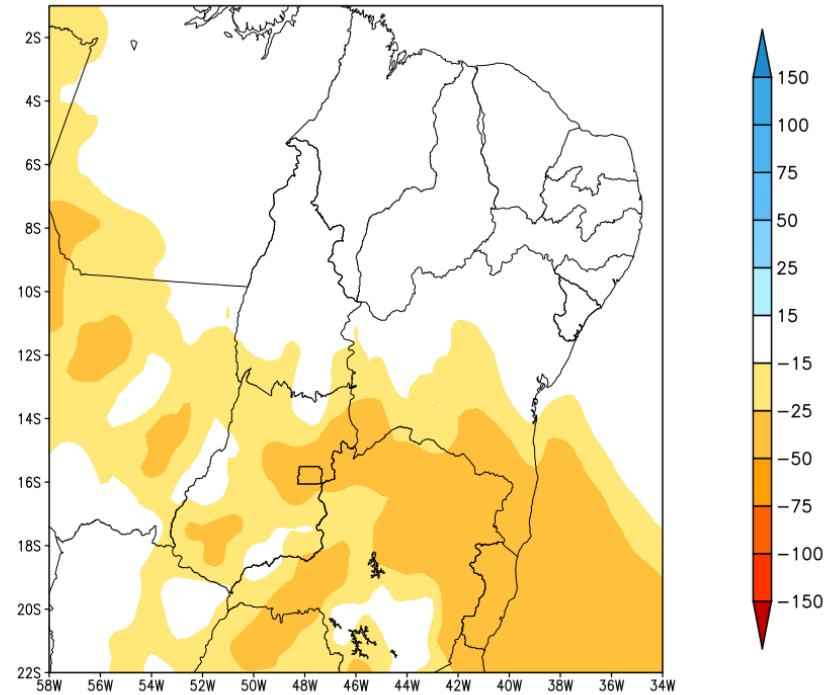
	Extrema	Severa	Moderada
AL			16
BA	6	120	744
CE			4
MA	4	57	736
PB		21	348
PE			128
PI	2	39	300
RN		12	336
SE	8	180	288

Tendência de chuva para os próximos 7 dias

GEFS / BRASIL_NE
Precipitação acumulada 1aSem (mm)
Previsão das 00Z dia 16/11/2023

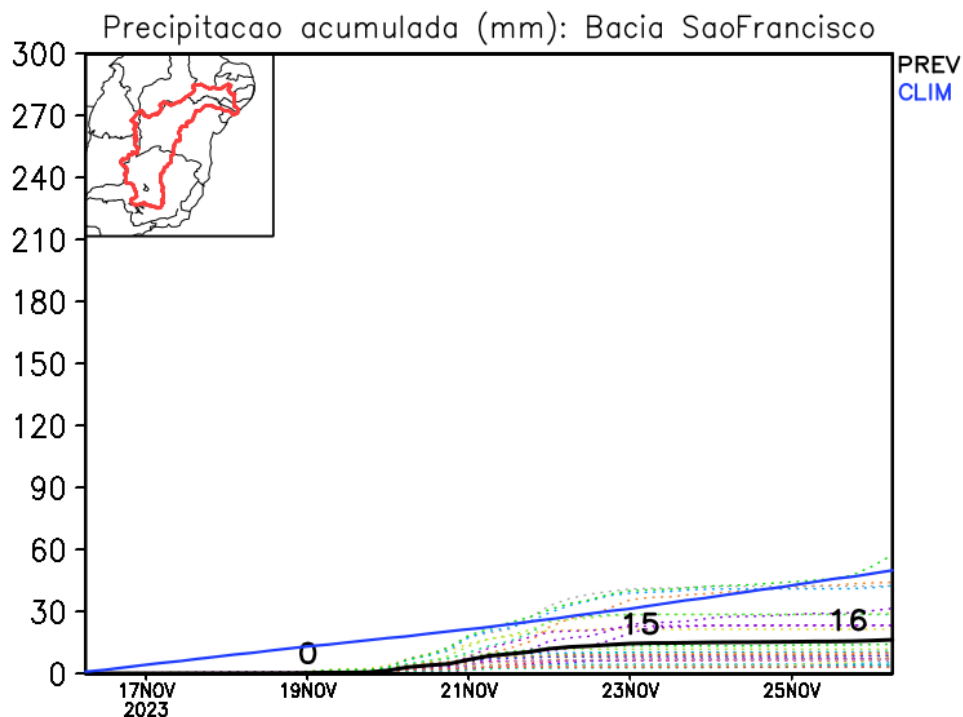
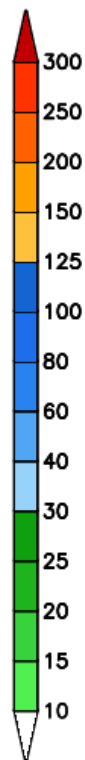
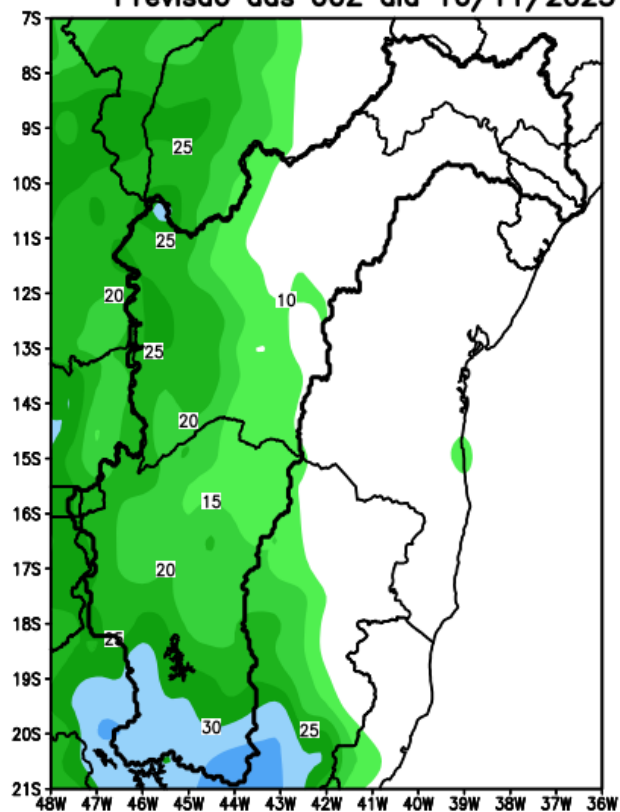


Anomalia de Precipitação BR_NE (mm)
Período: 2023111600 a 2023112300



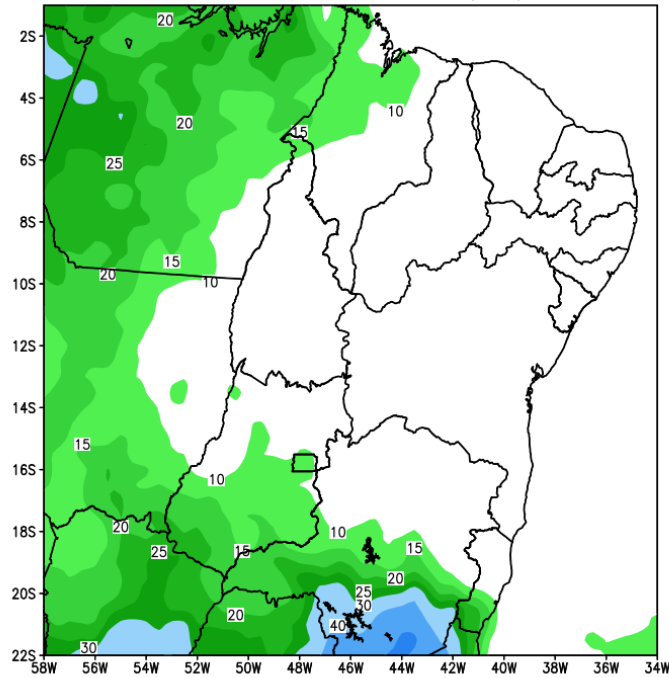
Tendência de chuva para a bacia do rio São Francisco

GEFS / Bacia do Rio Sao Francisco
Precipitacao acumulada em 7 dias (mm)
Previsao das 00Z dia 16/11/2023

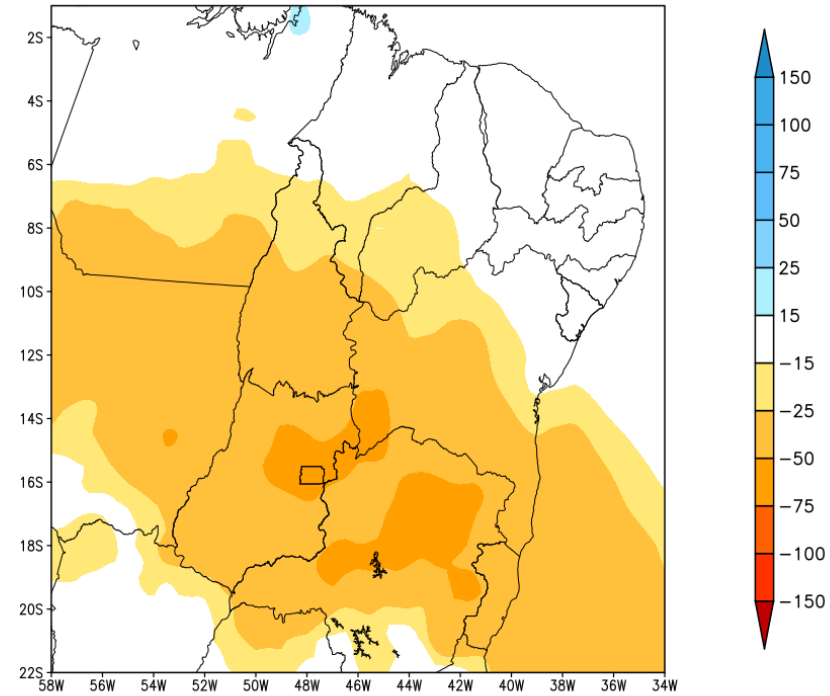


Tendência de chuva para a segunda semana

GEFS / BRASIL_NE
Precipitação acumulada 2aSem (mm)
Previsão das 00Z dia 16/11/2023

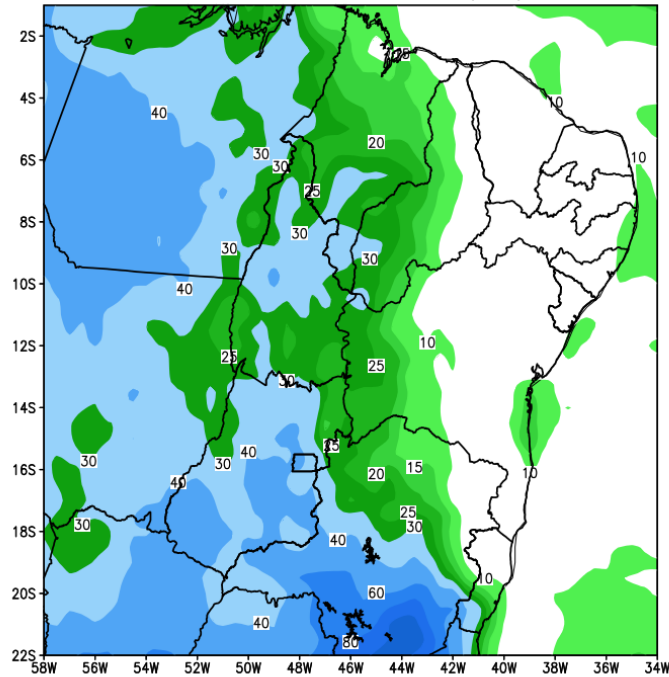


Anomalia de Precipitação BR NE (mm)
Período: 2023112400 a 2023113000

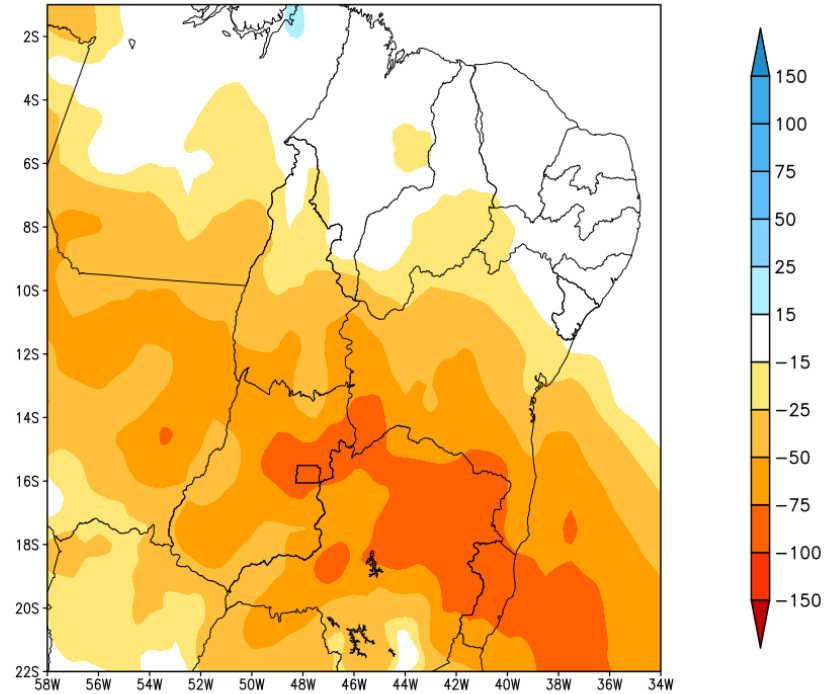


Tendência de chuva para as próximas duas semanas

GEFS / BRASIL_NE
Precipitação acumulada 14 dias (mm)
Previsão das 00Z dia 16/11/2023



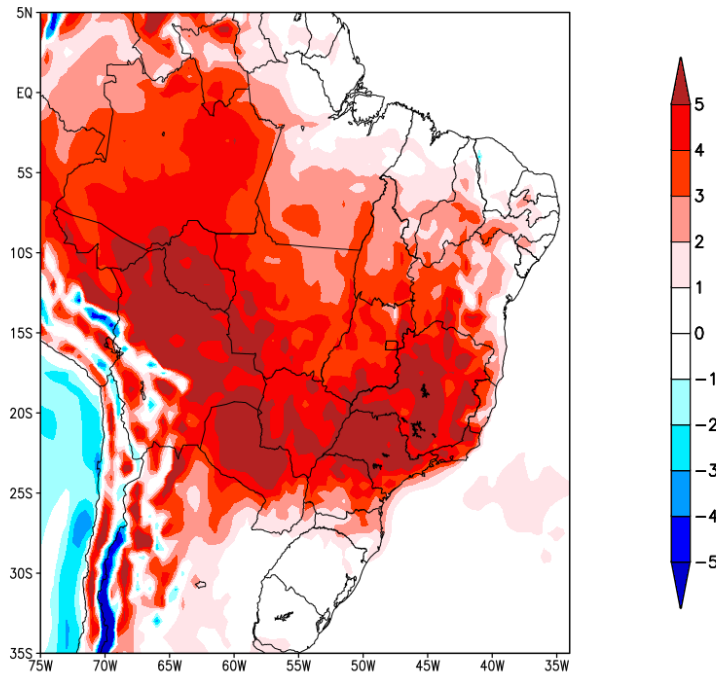
Anomalia de Precipitação BR NE (mm)
Período: 2023111600 a 2023113000



Tendência da Temperatura para as próximas duas semanas

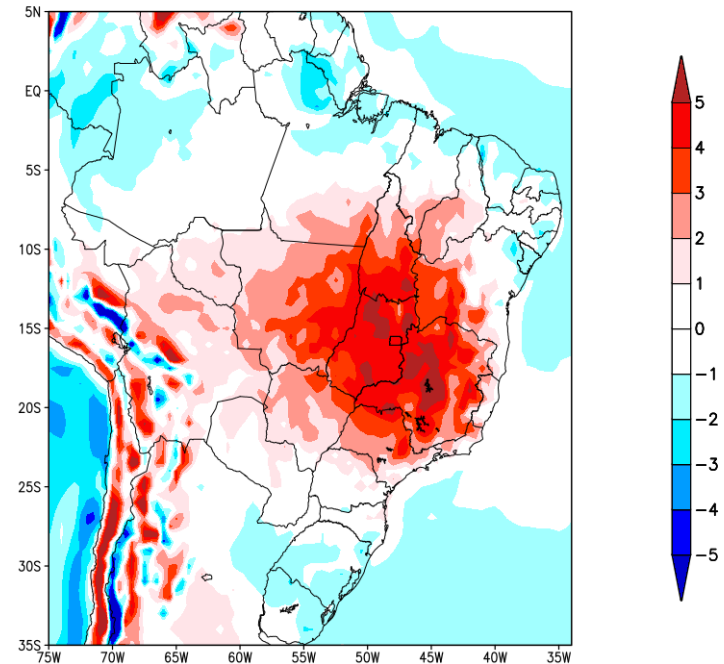
16-23/11

Anomalia de Temperatura BR (C)
Período: 2023111600 a 2023112300



24-30/11

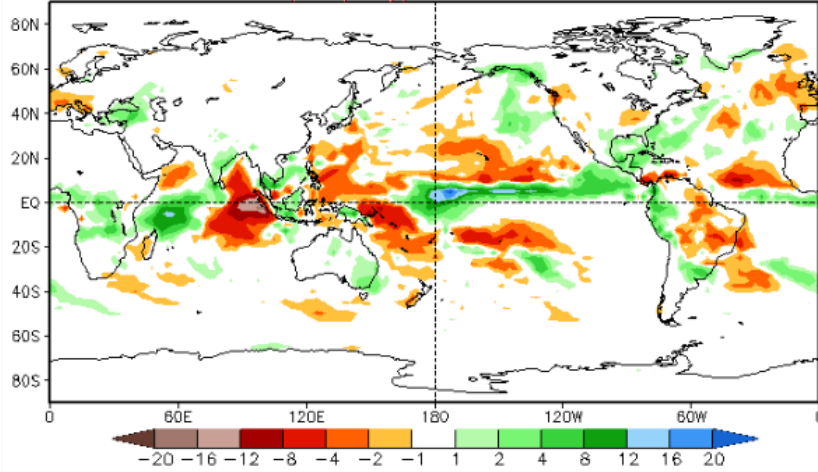
Anomalia de Temperatura BR (C)
Período: 2023112400 a 2023113000



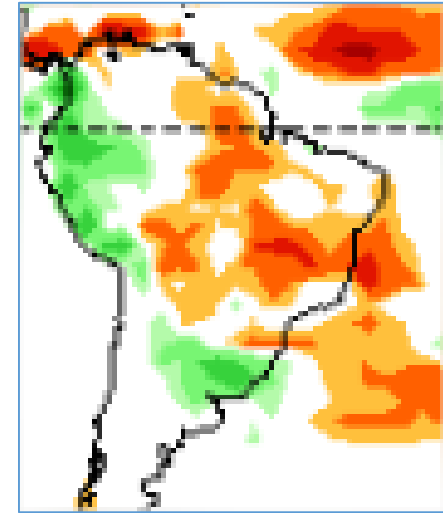
Tendência 3a e 4a semanas

Week 3 Anomalies (mm/day)

29Nov2023–5Dec2023

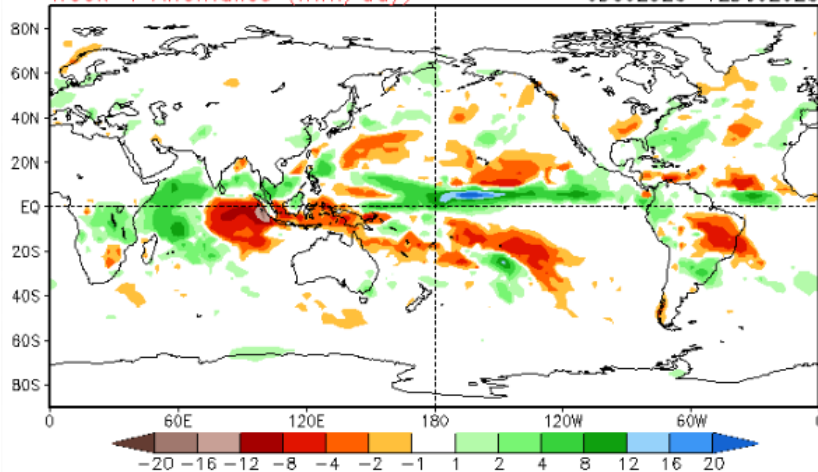


29/11-05/12

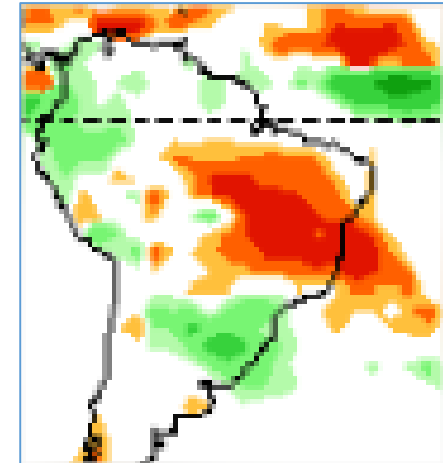


Week 4 Anomalies (mm/day)

6Dec2023–12Dec2023



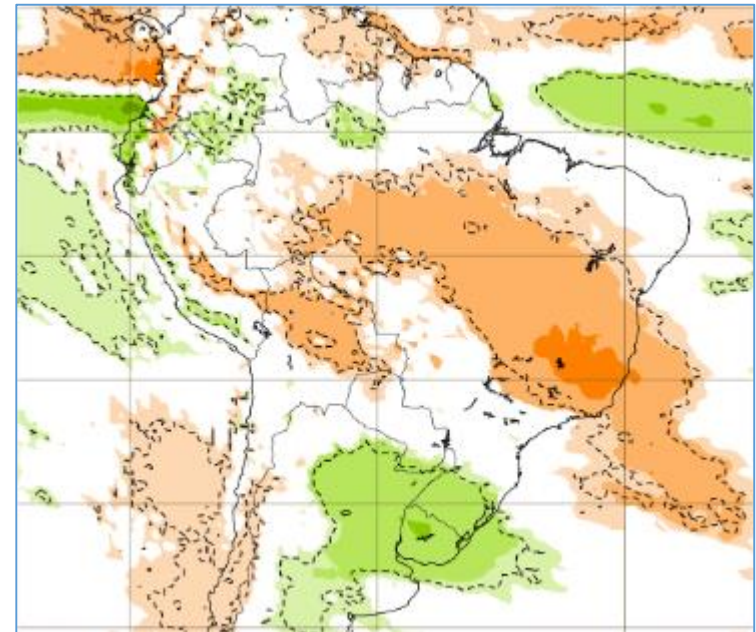
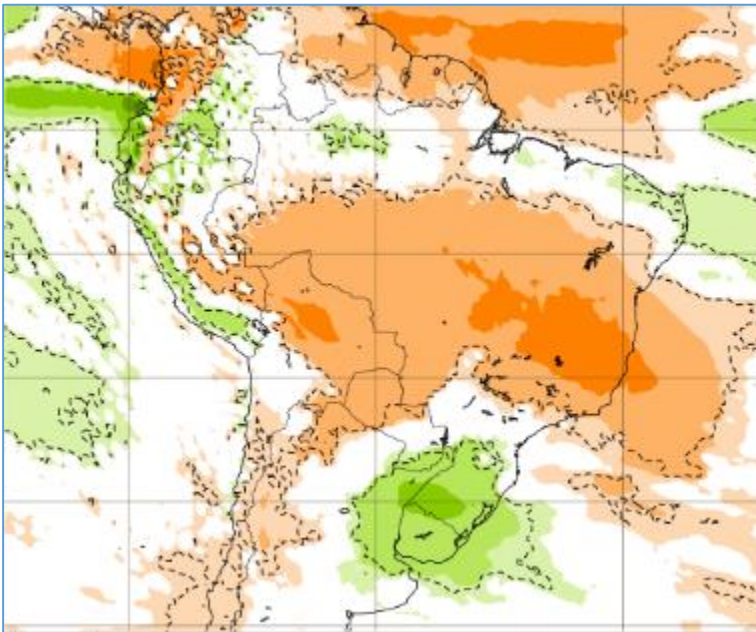
06-12/12



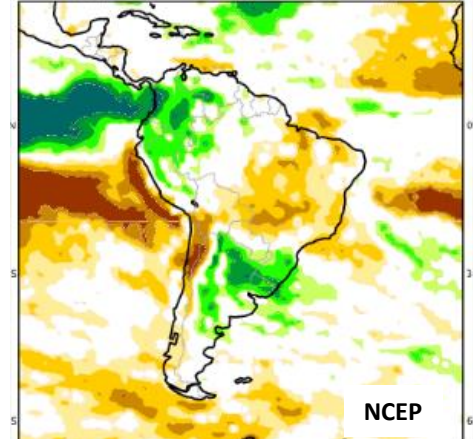
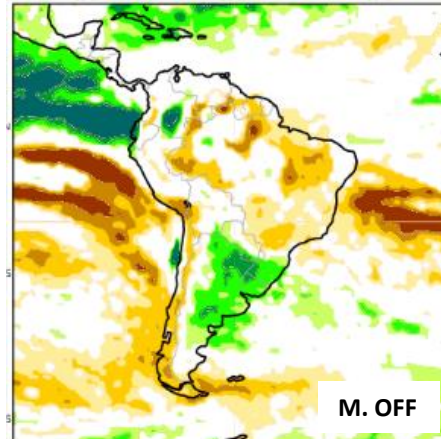
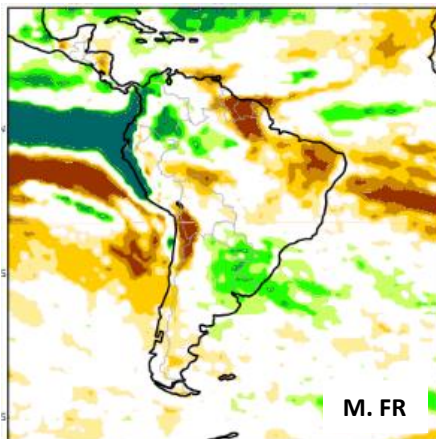
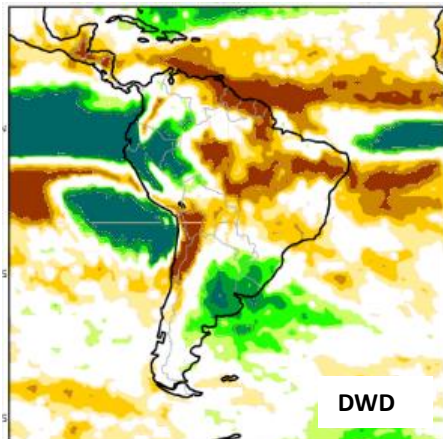
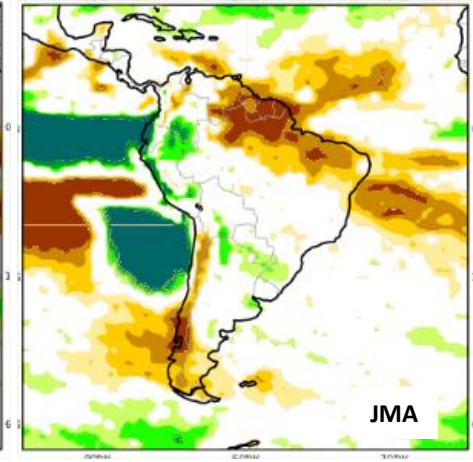
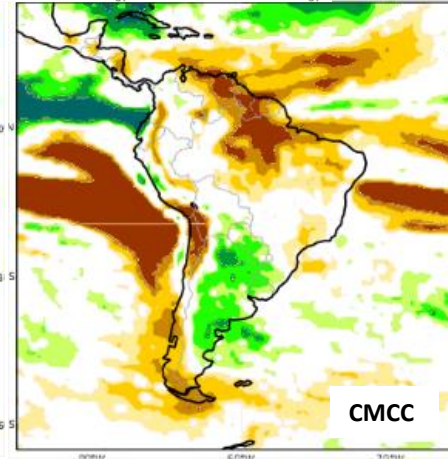
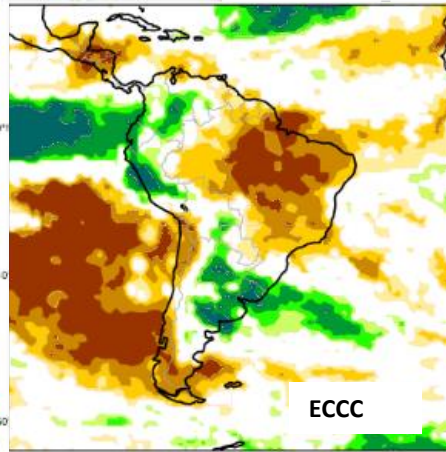
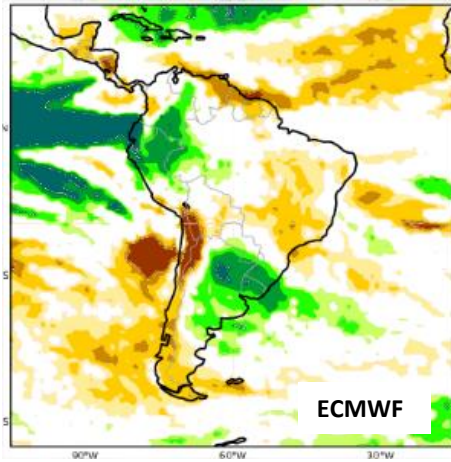
Tendência para 3^a e 4^a semanas

27/11-04/12

04-11/12

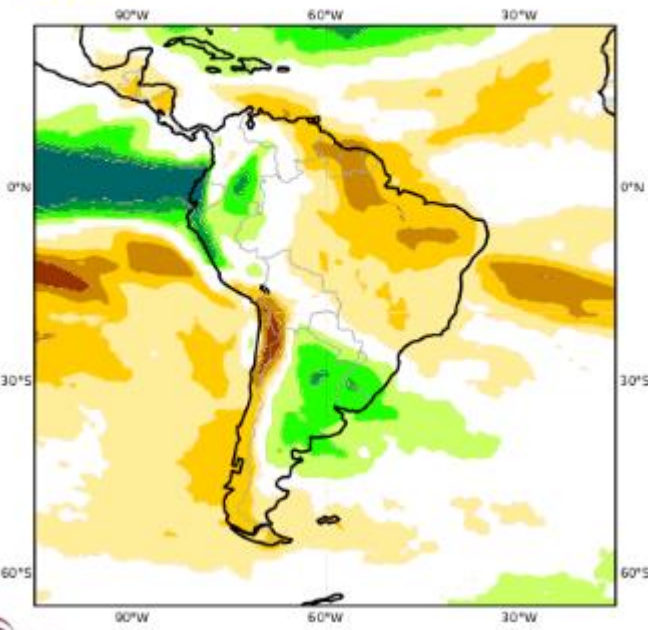


Previsão Sazonal de Chuva DJF

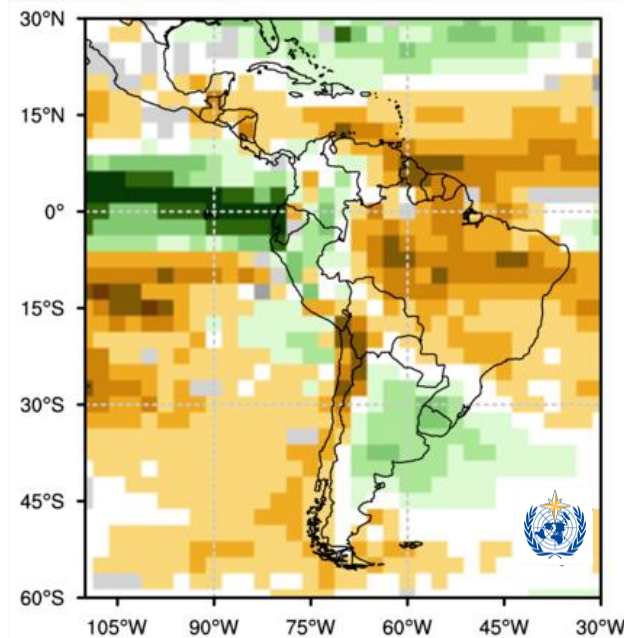


Previsão Sazonal de Chuva Multi-Modelo para DJF

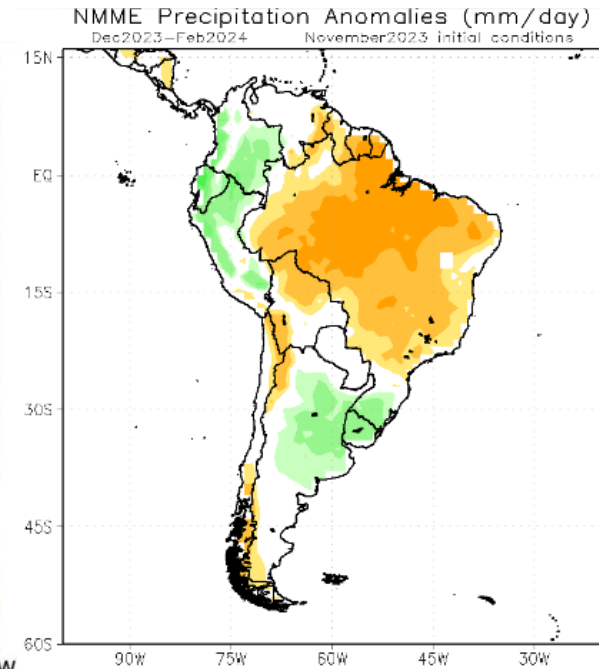
C3S multi-system seasonal forecast
Prob(most likely category of precipitation)
Nominal forecast start: 01/11/23
Unweighted mean



Modelos Europeus



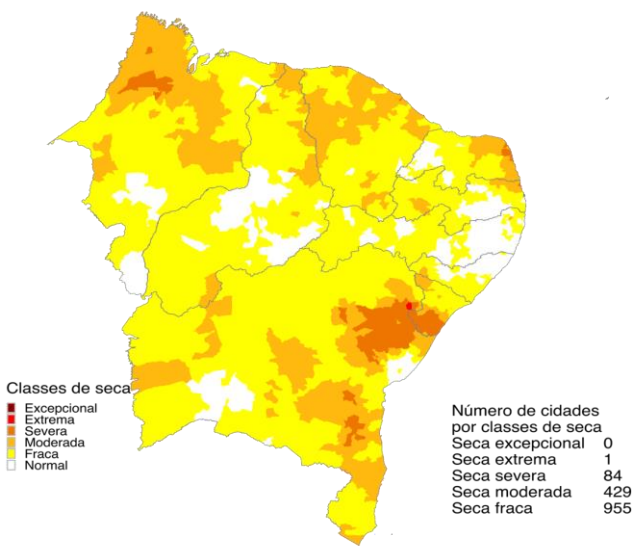
Modelos da Organização
Meteorológica Mundial



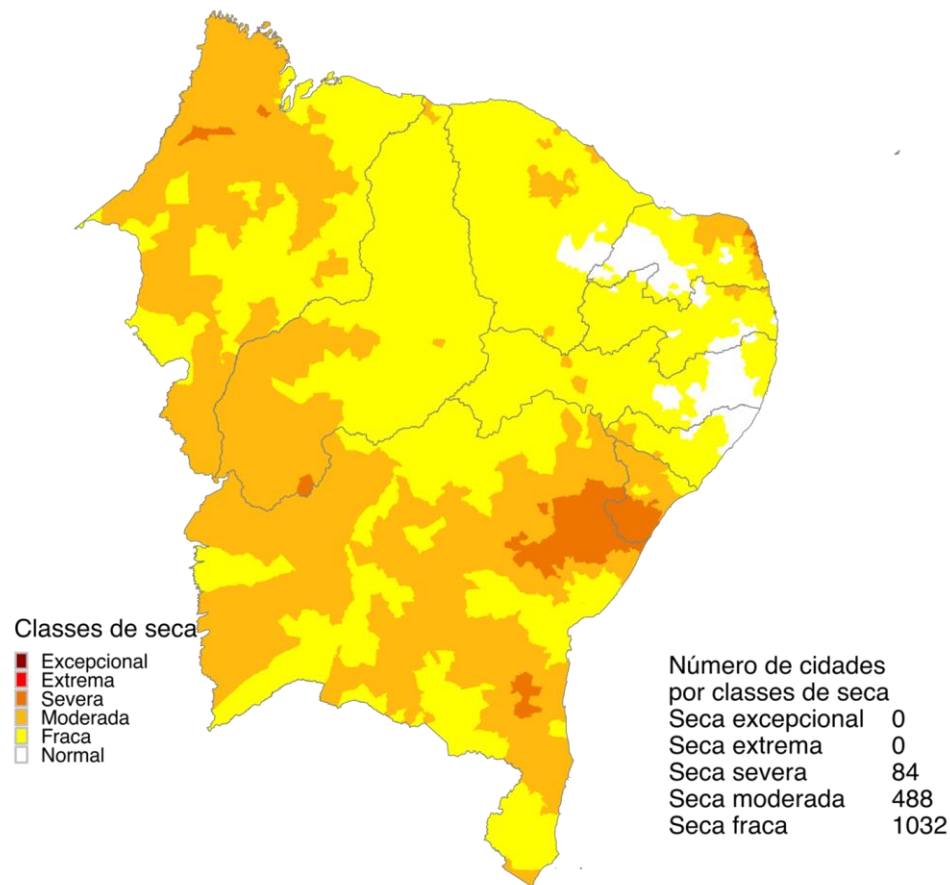
Modelos Americanos

CENÁRIO IIS DEZEMBRO 2023

Atual



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

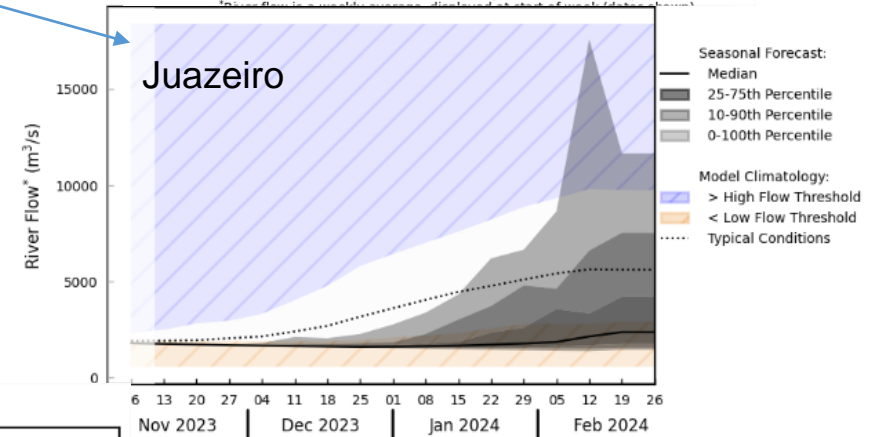
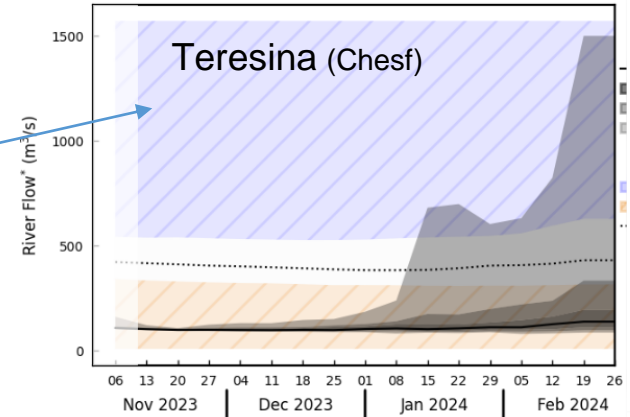


Dezembro 2023
Índice Integrado de Seca (SPI6, VHI, US)
Dados: CPTEC/INPE - NOAA - NASA / Preparação: Cemaden/MCTI

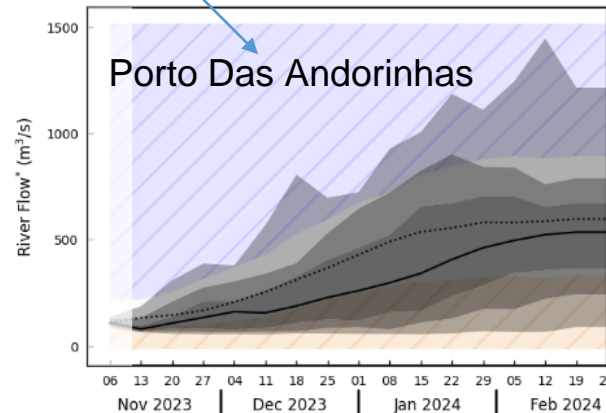
Monitoramento da situação da seca na Região Nordeste



Hydrograph



Hydrograph



Fonte: Glofas

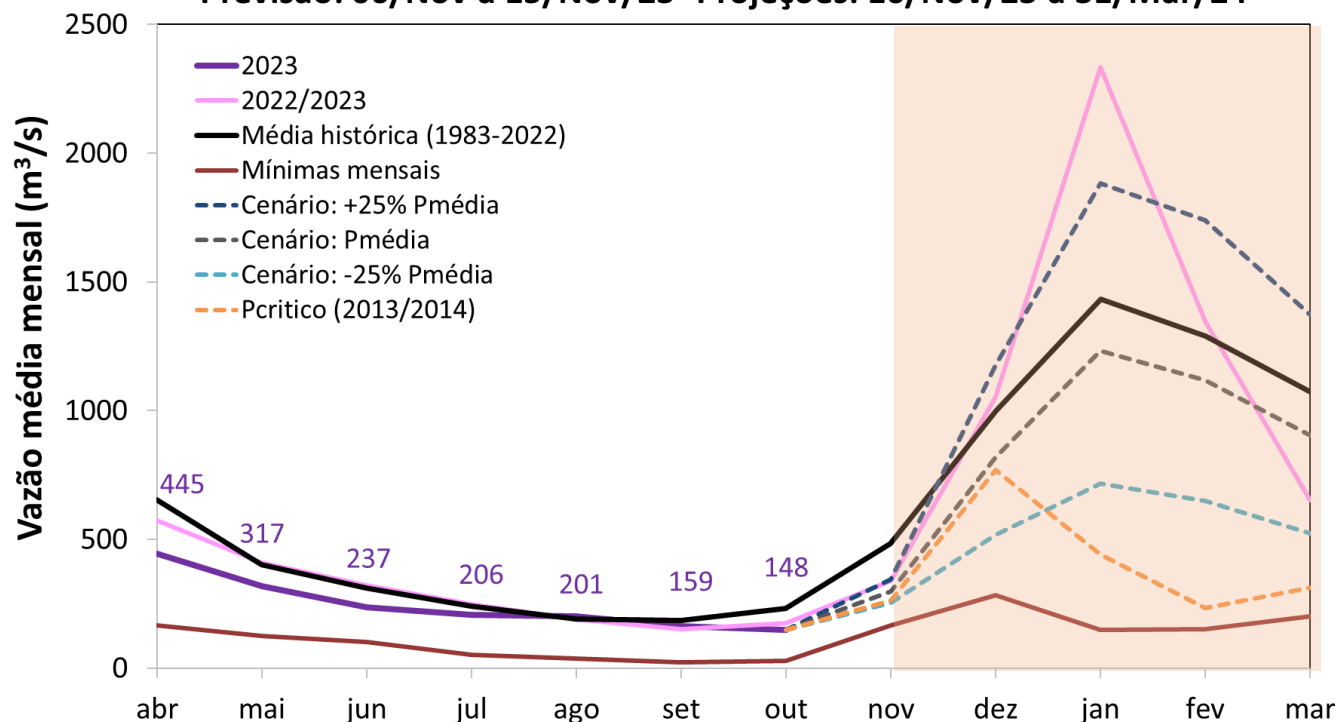


UHE Três Marias: Projeções de Vazão (modelo PDM/CEMADEN)

Histórico e simulação da vazão natural média mensal

UHE Três Marias - Rio São Francisco

Previsão: 06/Nov a 15/Nov/23- Projeções: 16/Nov/23 a 31/Mar/24



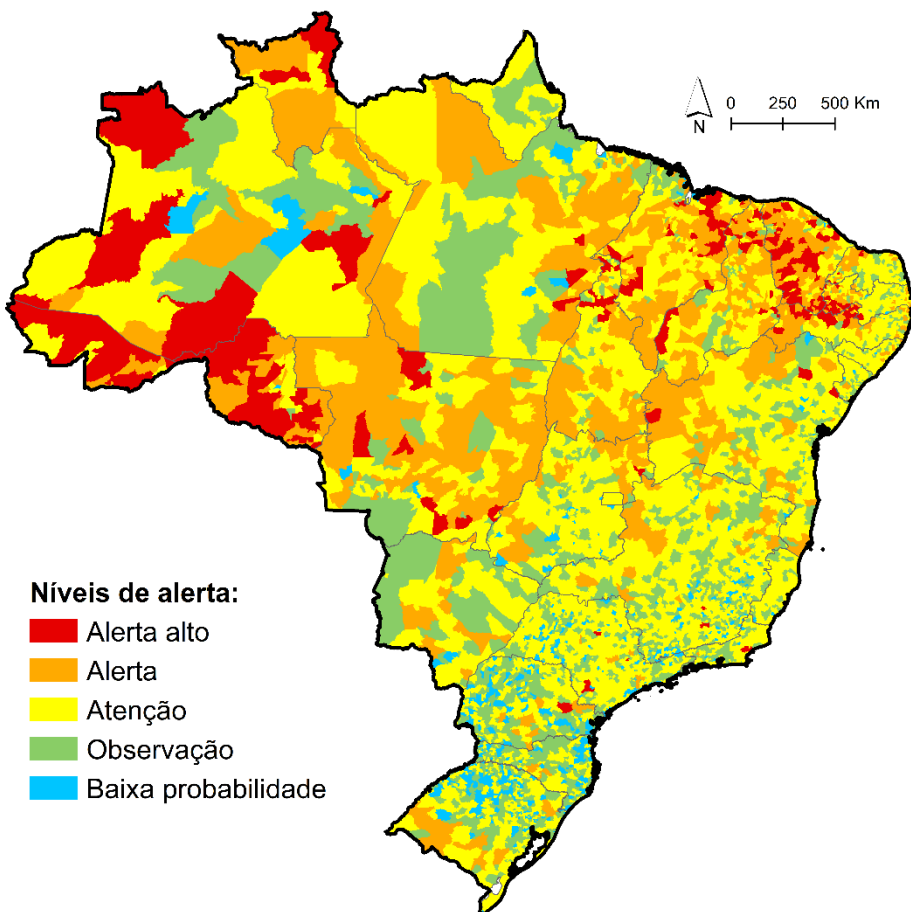
Novembro-Março

MLT: 1056 m³/s

Vazão	% MLT
1303 m³/s	123%
875 m³/s	83%
533 m³/s	50%
405 m³/s	38%

Comparação entre 2022 e 2023

Previsão de alertas NDJ 2023



Previsão de alertas NDJ 2022

