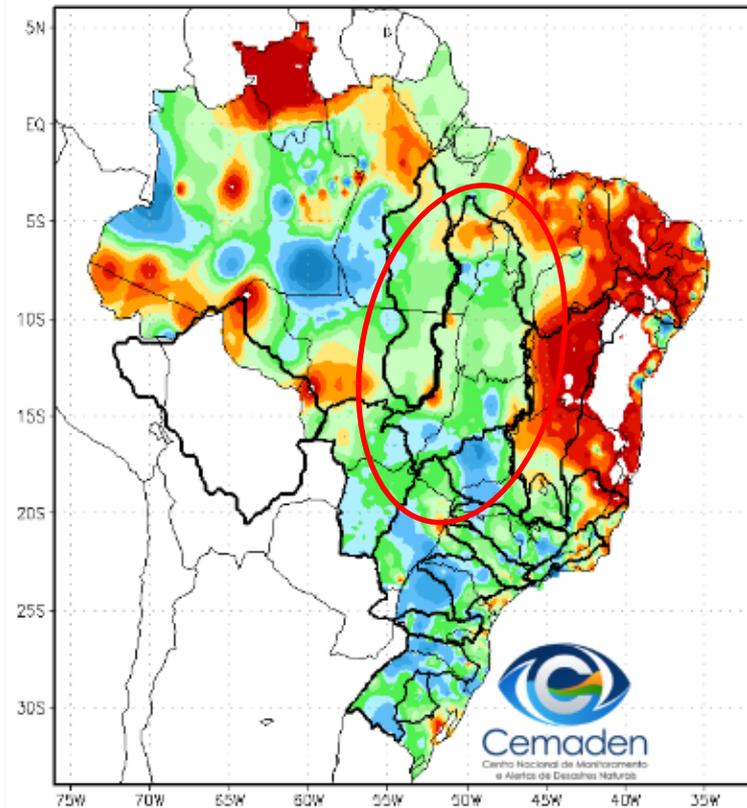


Monitoramento e Previsões para a Bacia do rio Tocantins

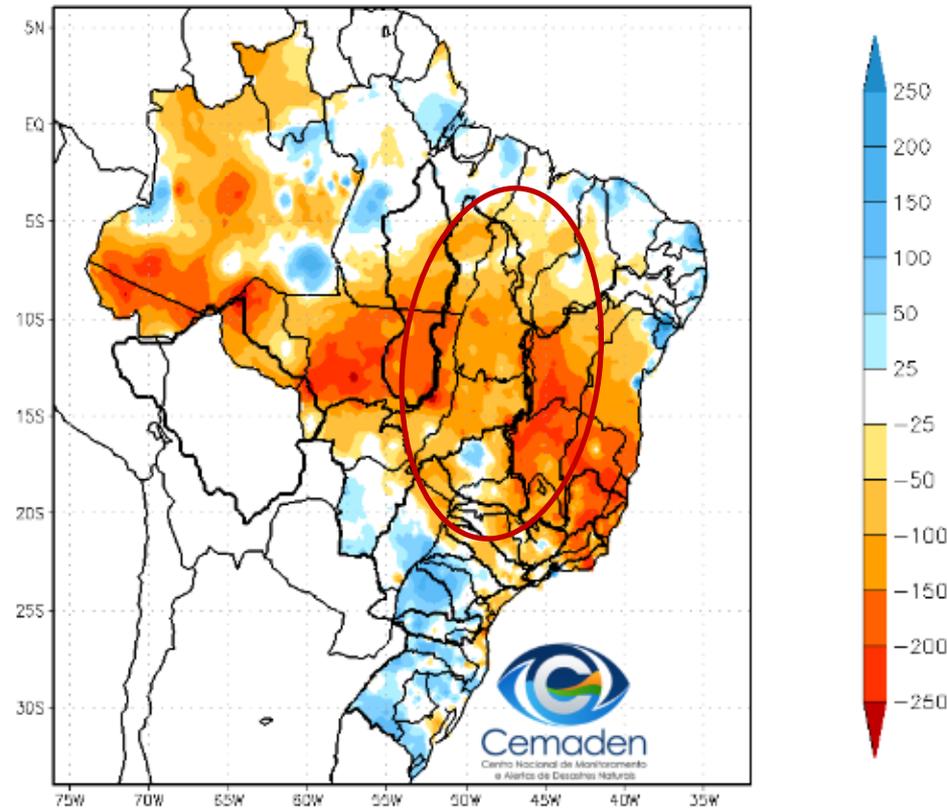


Precipitação acumulada nos últimos 30 dias

Precipitação Acumulada (mm) A.S.
Período: 19/11/2023 a 19/12/2023

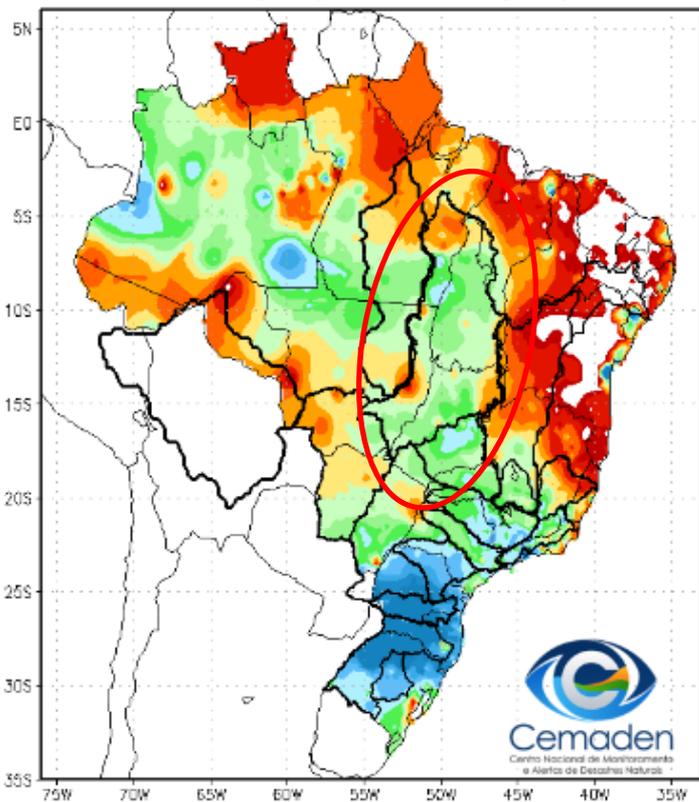


Anomalia de Precipitação (mm) A.S.
Período: 19/11/2023 a 19/12/2023

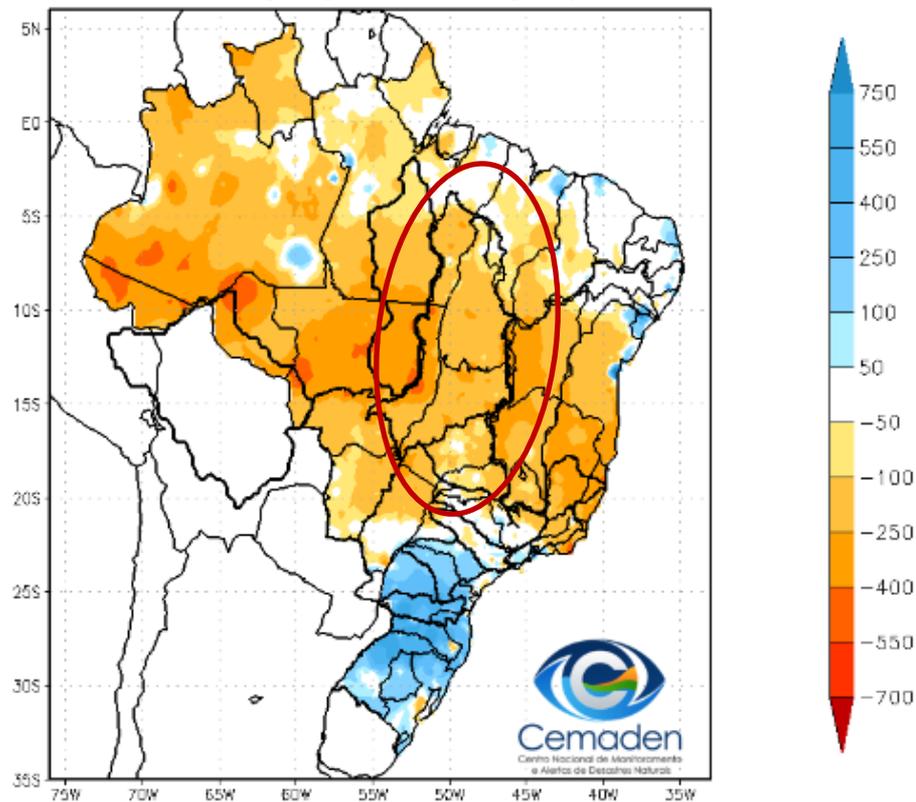


Precipitação acumulada no Ano Hidrológico

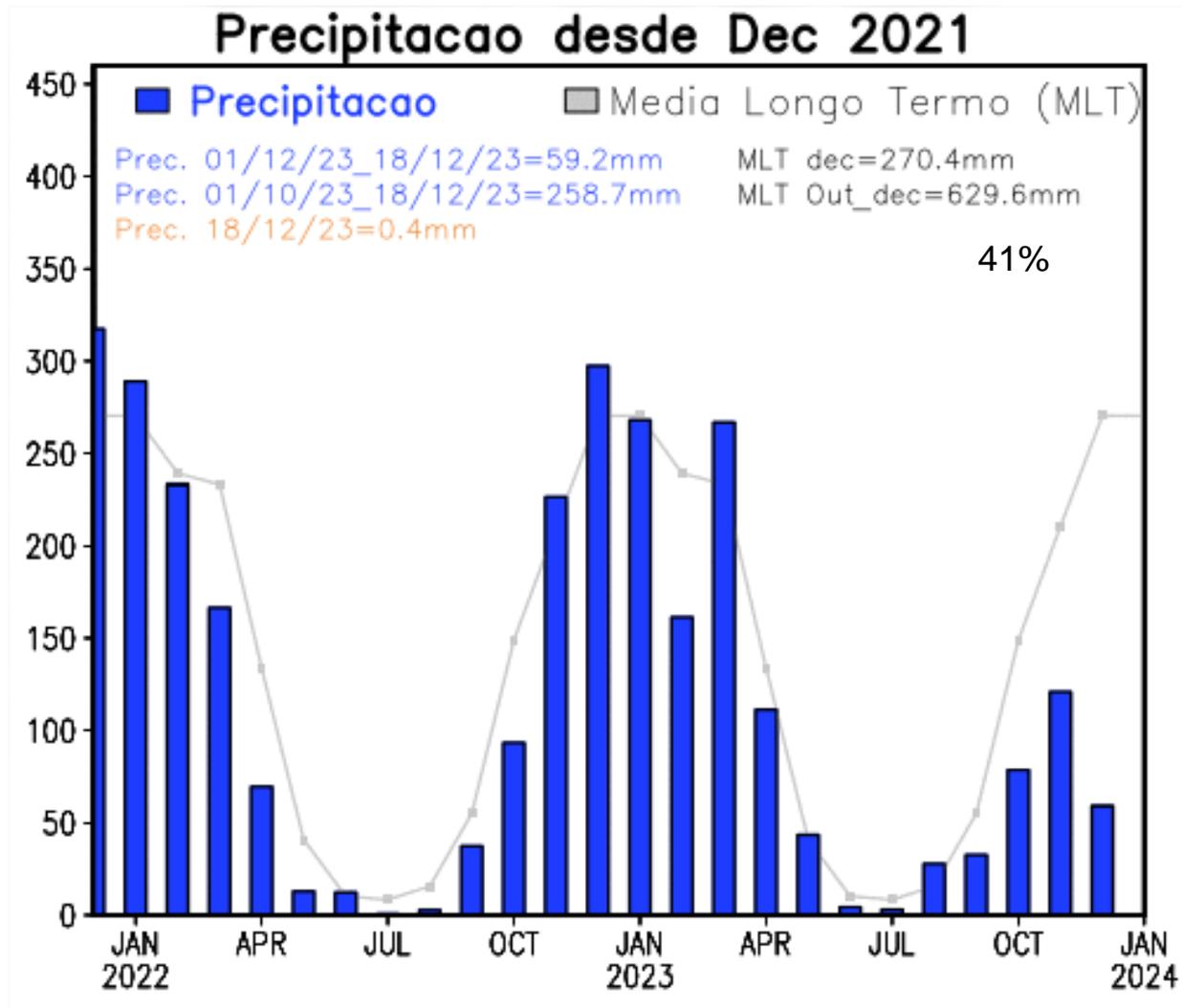
Precipitação Acumulada (mm) A.S.
Período: 01/10/2023 a 19/12/2023



Anomalia de Precipitação (mm) A.S.
Período: 01/10/2023 a 19/12/2023

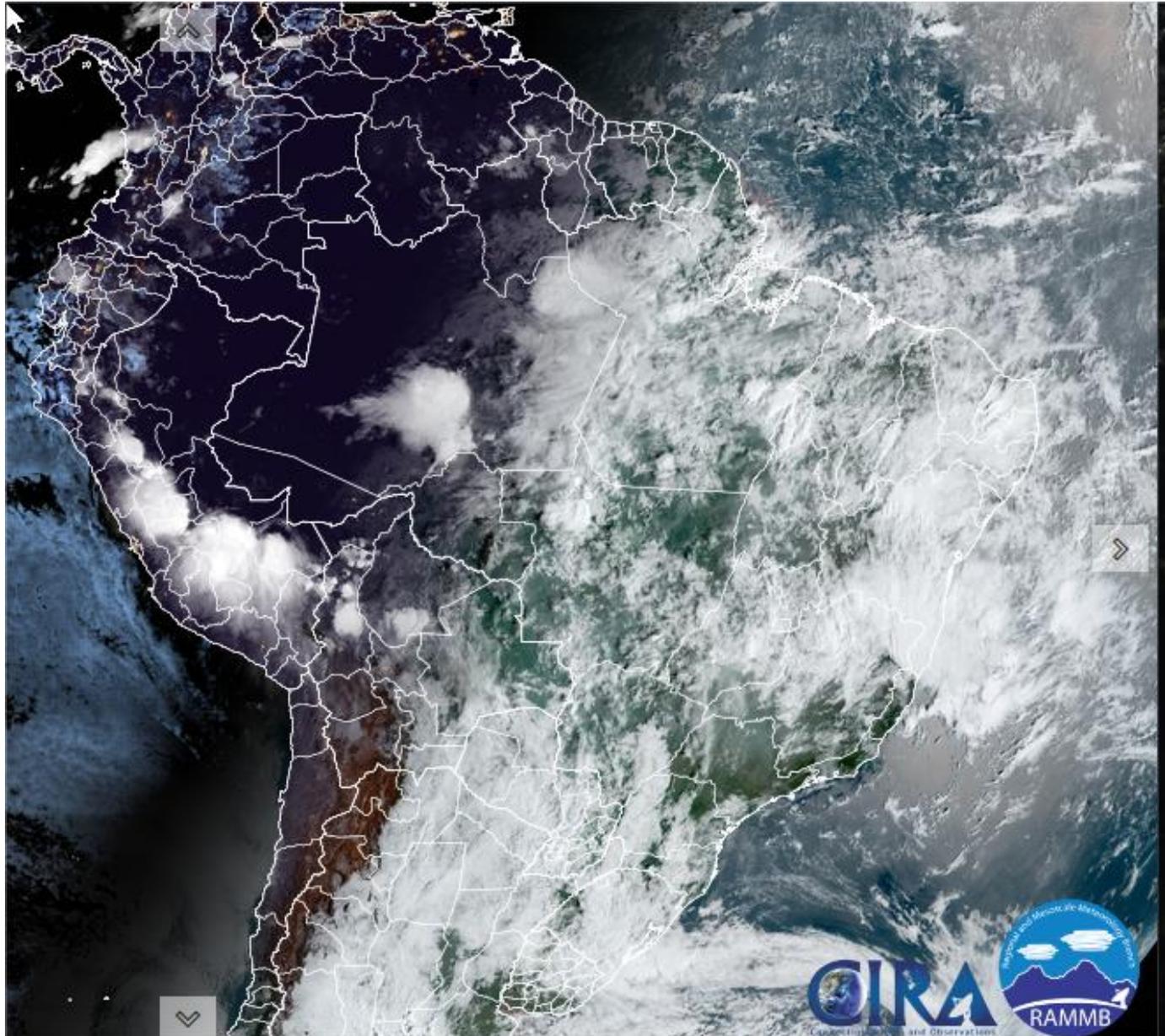


Evolução da Precipitação

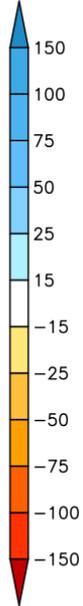
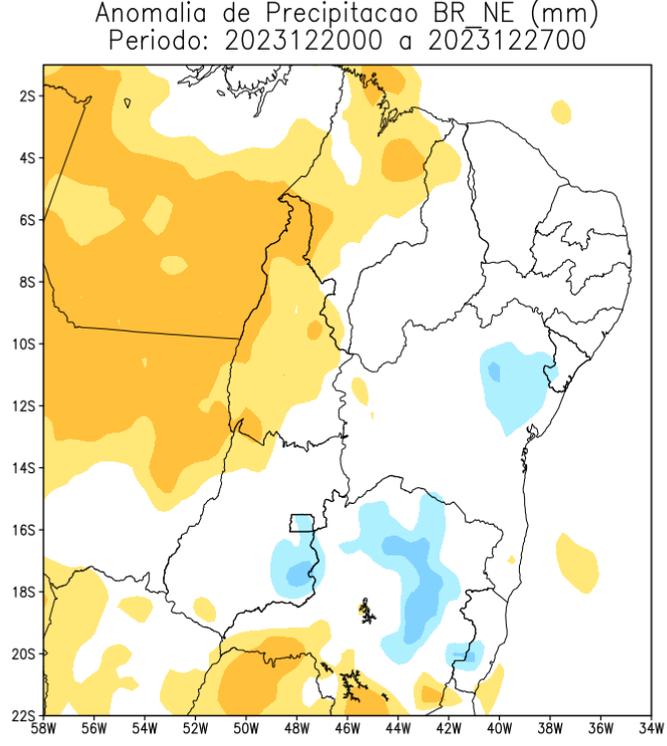
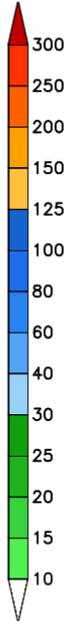
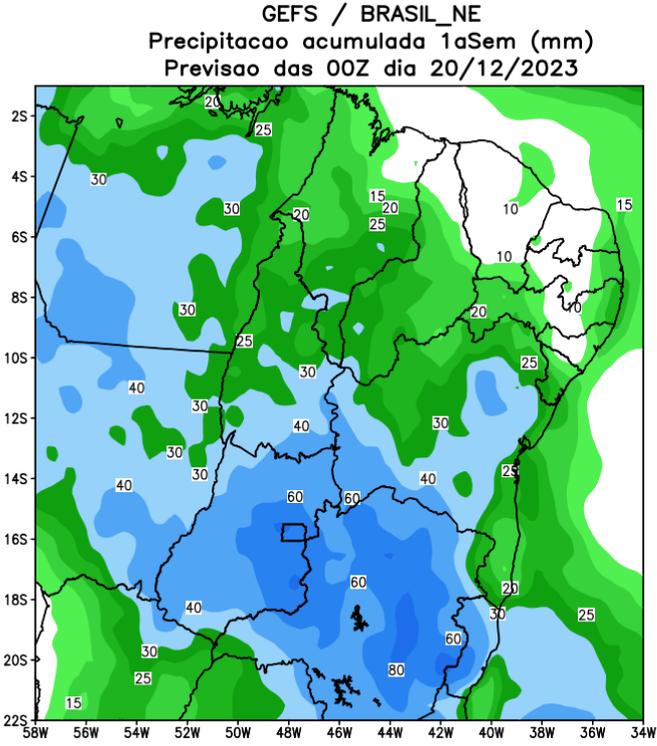


FONTE:
INPE

Situação meteorológica atual



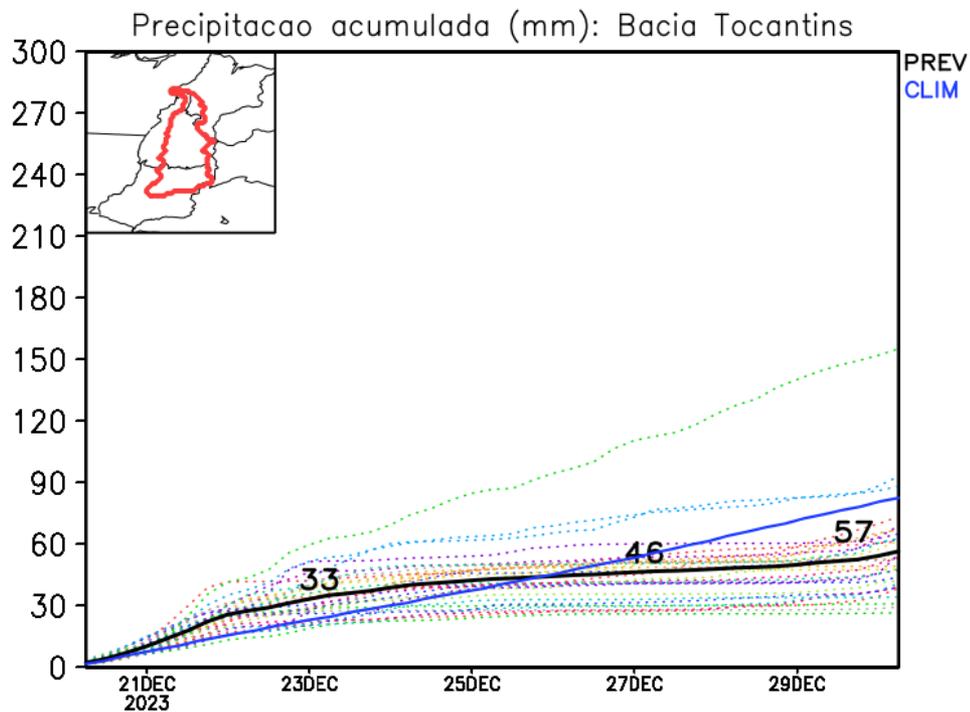
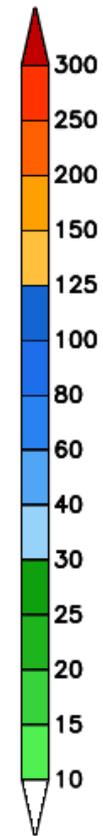
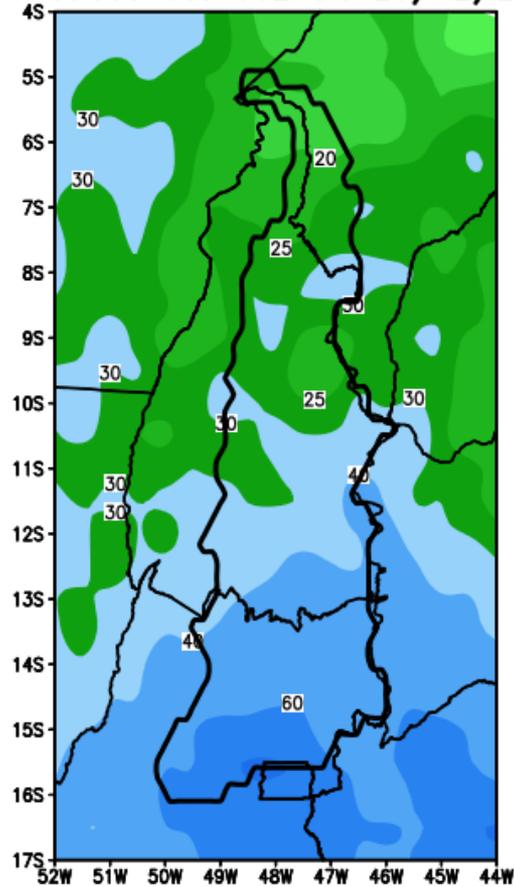
Previsão de chuva próximos 7 dias



Fonte: GFS/NOAA

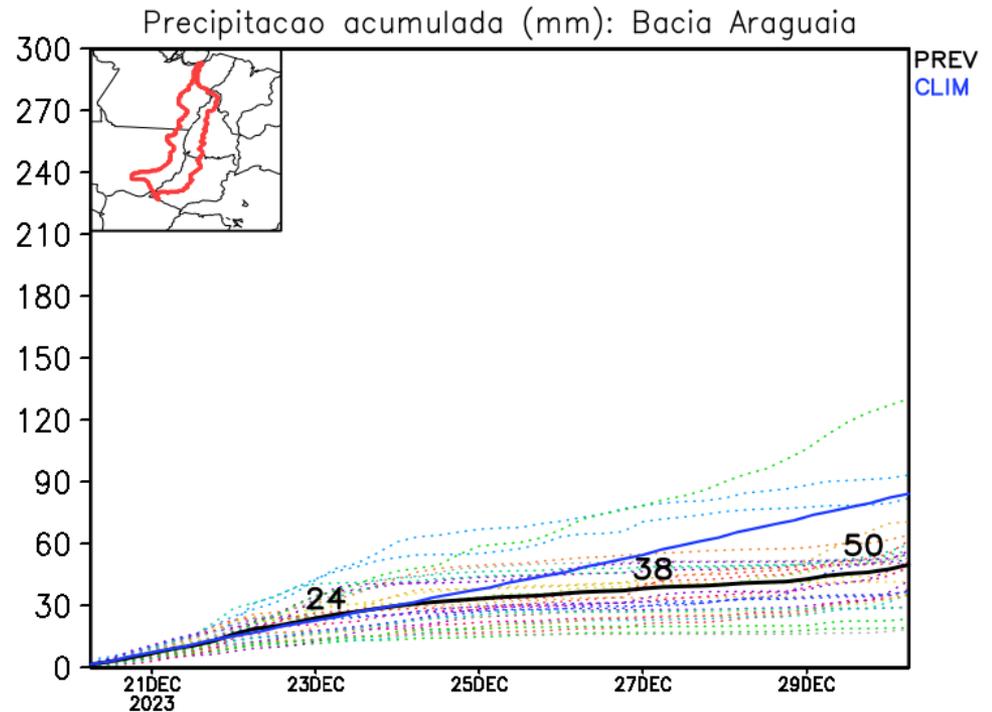
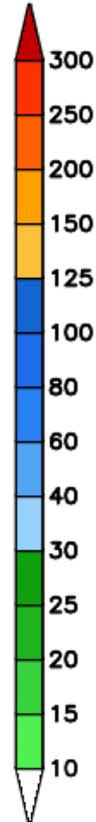
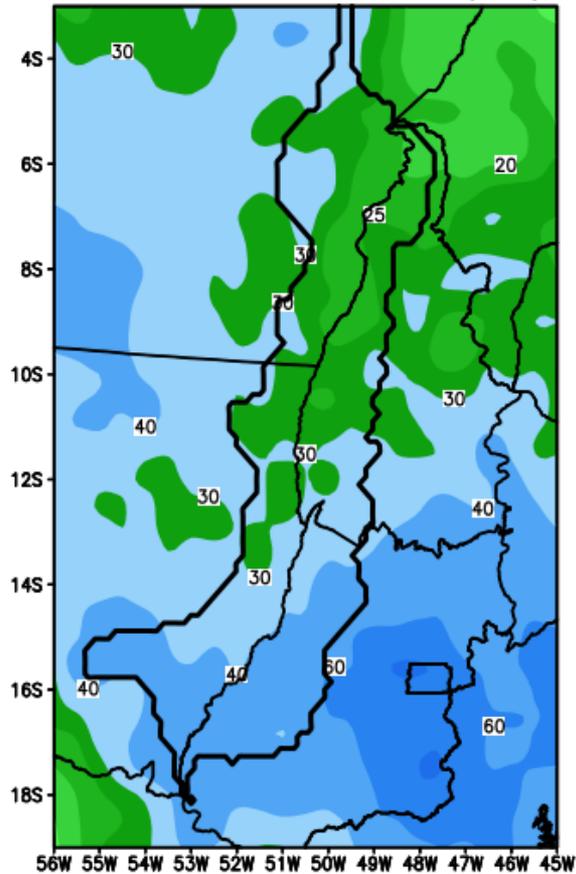
Previsão Bacia Rio Tocantins

GEFS / Bacia Tocantins
Precipitacao acumulada em 7 dias (mm)
Previsao das 00Z dia 20/12/2023



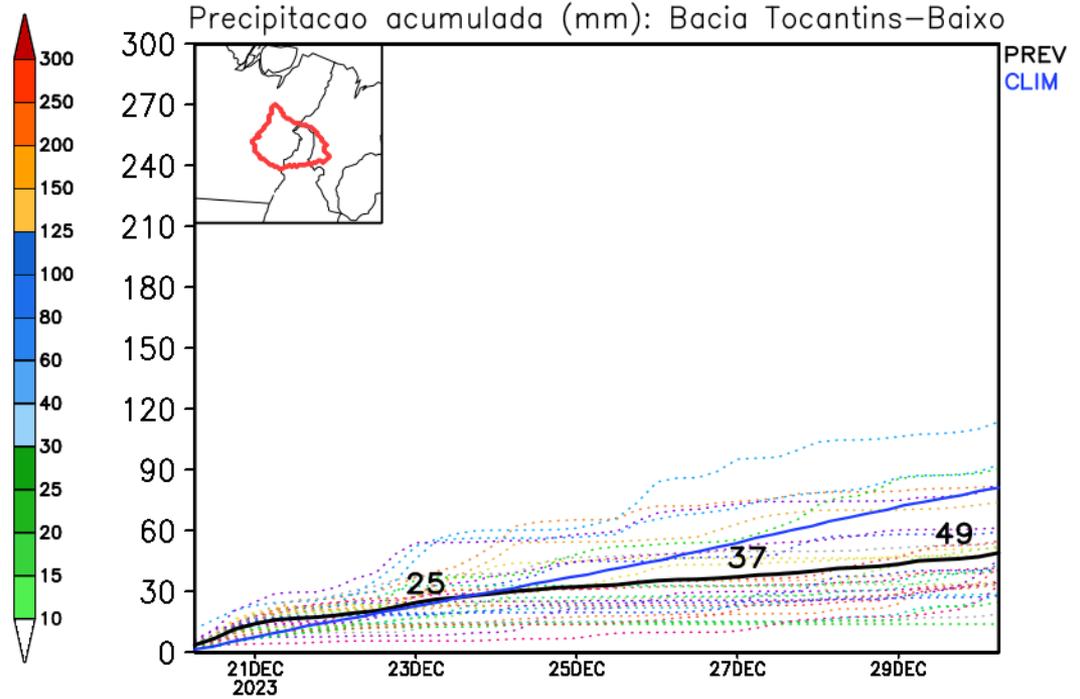
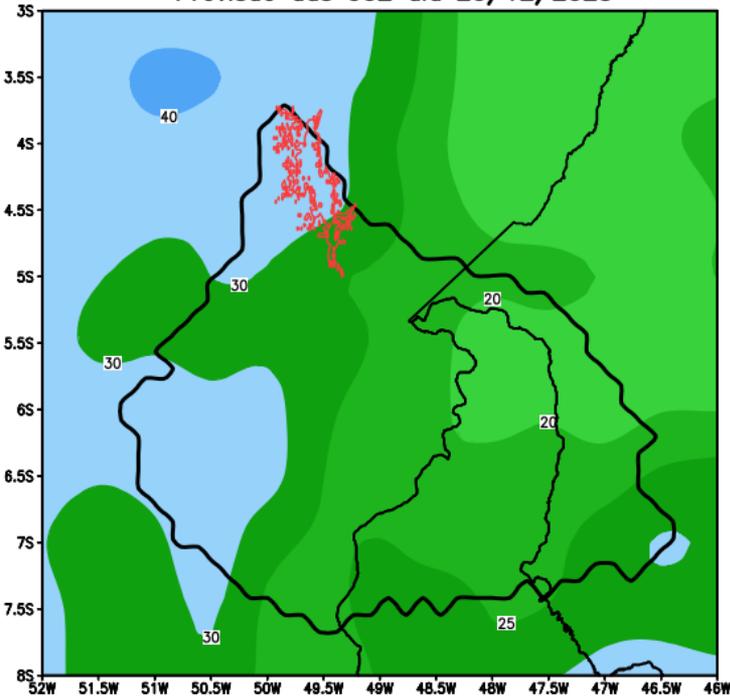
Previsão Bacia Rio Araguaia

GEFS / Bacia do Rio Araguaia
Precipitação acumulada em 7 dias (mm)
Previsão das 00Z dia 20/12/2023



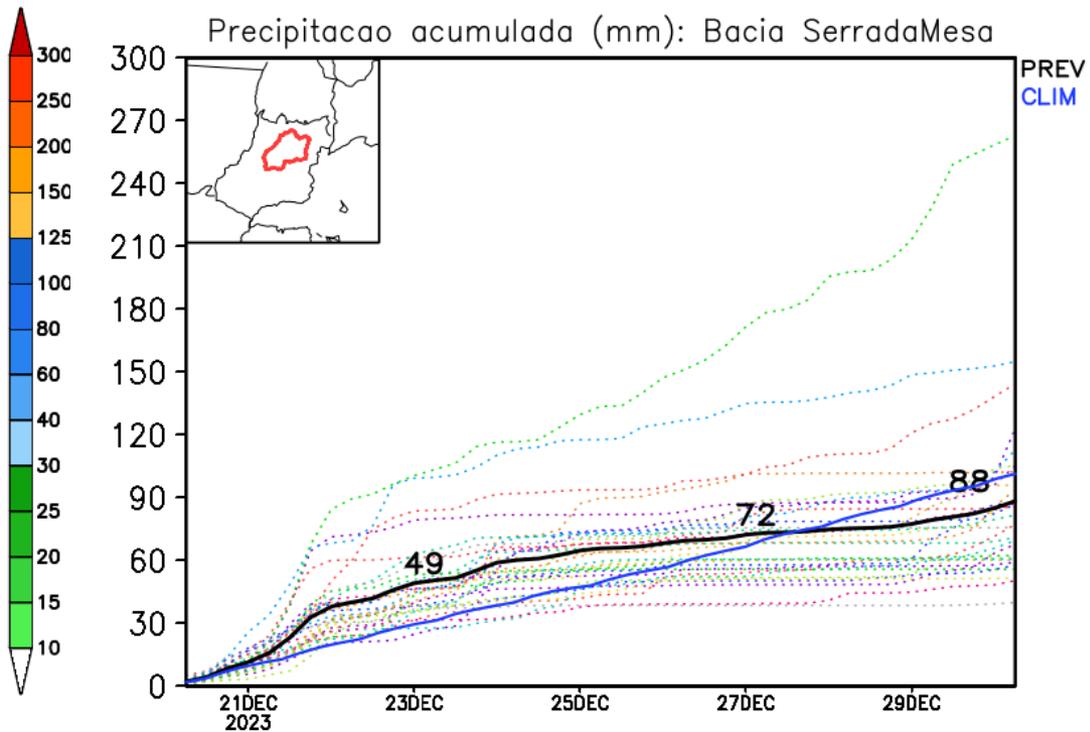
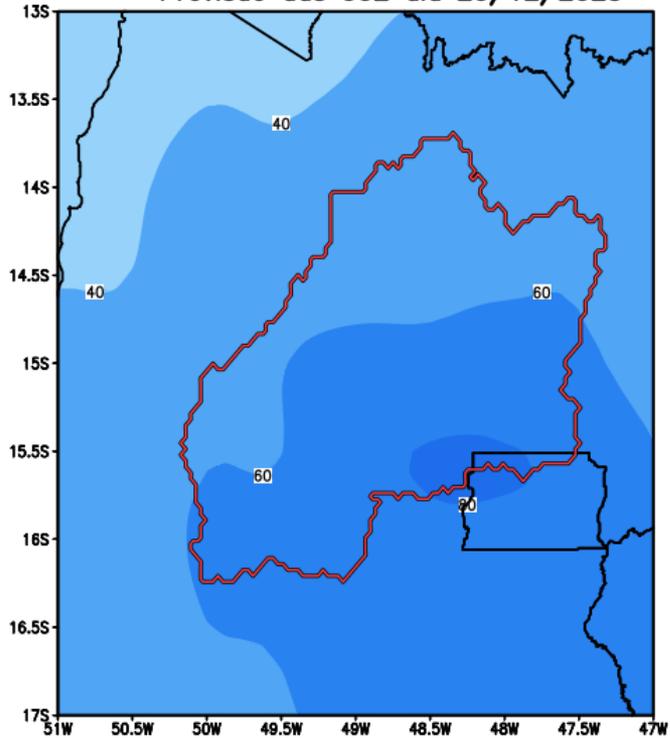
Previsão Bacia Tocantins (Baixo)

GEFS / Bacia Baixo Tocantins
Precipitacao acumulada em 7 dias (mm)
Previsao das 00Z dia 20/12/2023

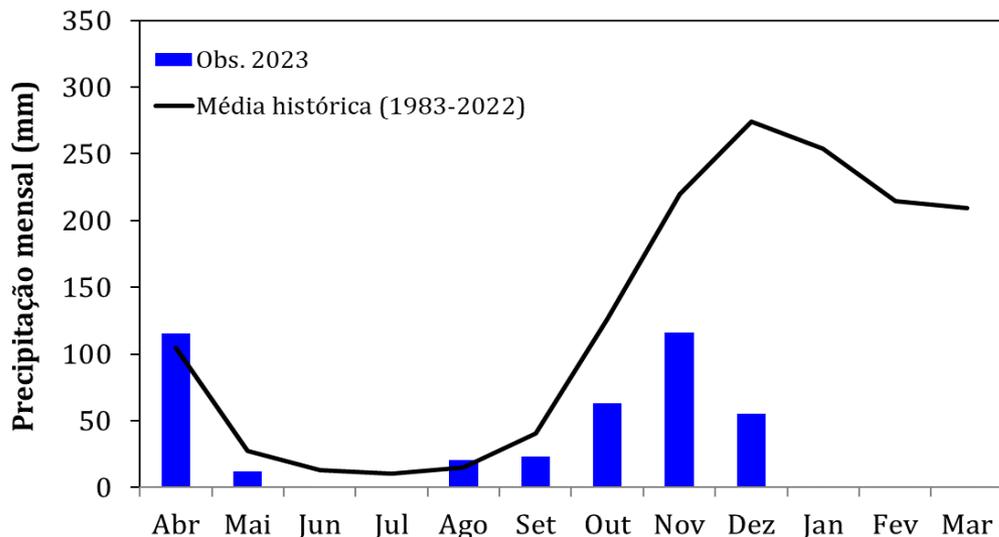


Previsão Bacia Serra da Mesa

GEFS / Bacia Serra da Mesa
Precipitacao acumulada em 7 dias (mm)
Previsao das 00Z dia 20/12/2023



Monitoramento UHE Serra da Mesa



Precipitação

Estação Chuvosa - Out a Abr – 1402 mm

2021/2022: 1473 mm (105% da média histórica)

2022/2023: 1358 mm (97% da média histórica)

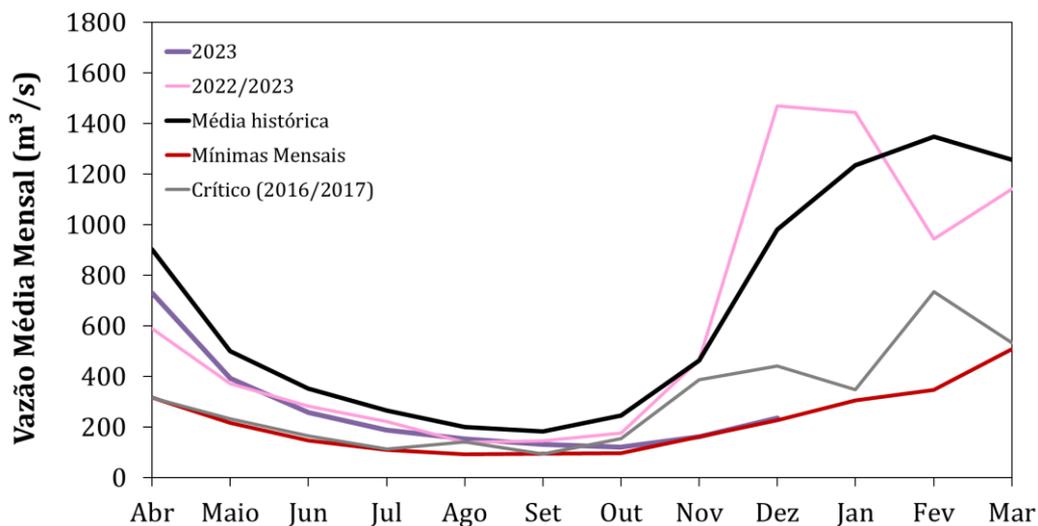
Estação Seca - Maio a Set – 106 mm

2022: 54 mm (51% da média histórica)

2023: 57 mm (53% da média histórica)

Dez/2023*: 55 mm (Média histórica = 274 mm)

*Até 18/12/2023



Vazão

Estação Chuvosa - Out a Abr – 918 m³/s

2021/2022: 1184 m³/s (129% da MLT)

2022/2023: 909 m³/s (99% da MLT)

Estação Seca - Maio a Set – 300 m³/s

2022: 231 m³/s (77% da MLT)

2023: 224 m³/s (75% da MLT)

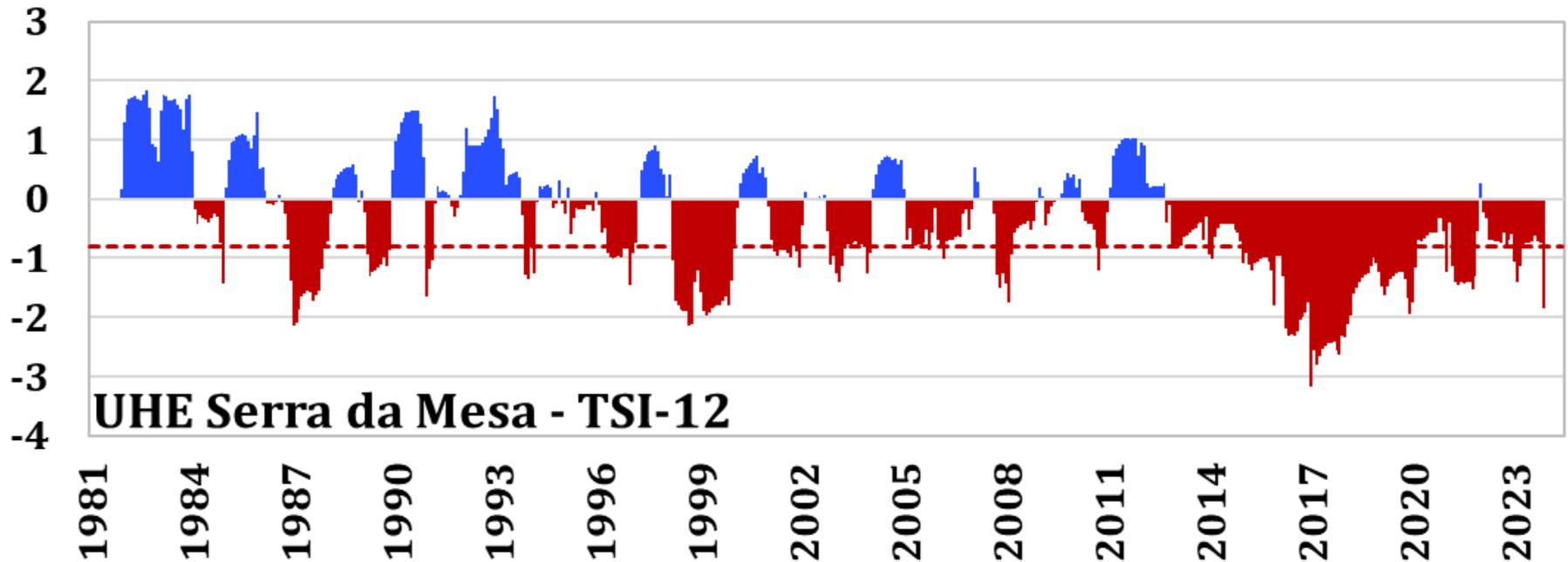
Dezembro/2023*: 235 m³/s (24% da MLT)

18/Dez/2023: 158 m³/s (16% da MLT)

*Até 18/12/2023

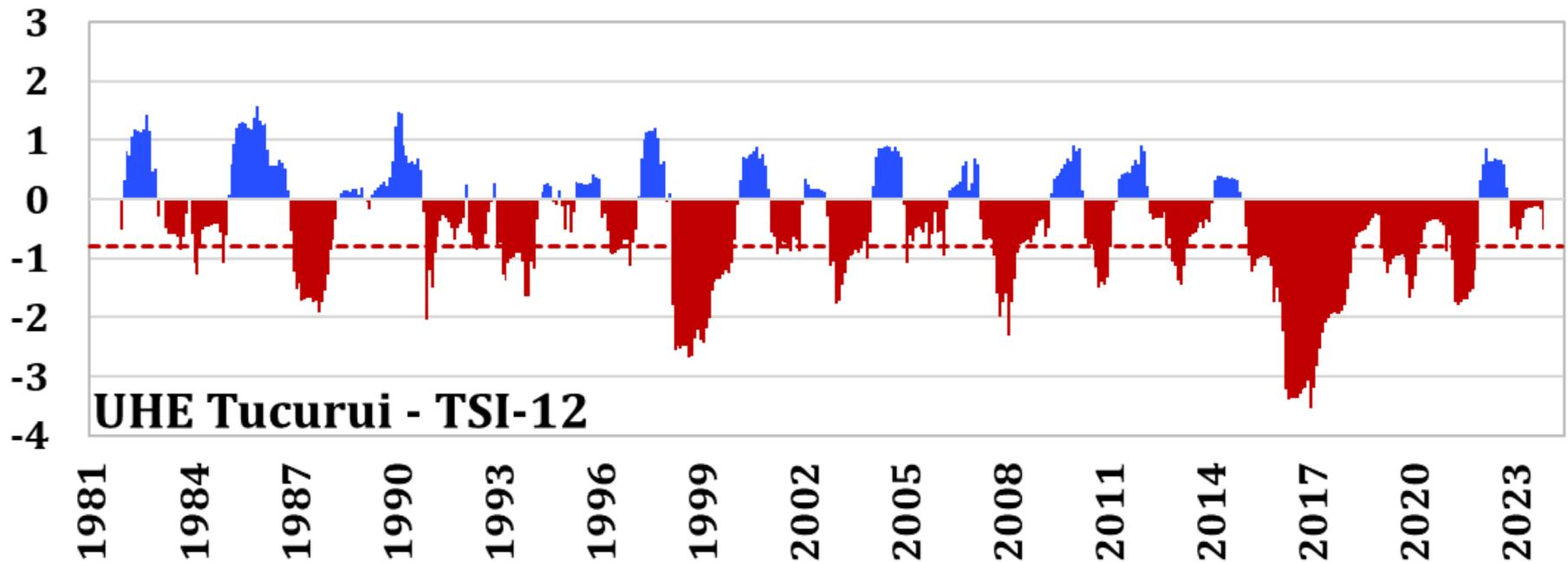
Seca Hidrológica Extrema

Índice Padronizado Bivariado (Chuva-Vazão) - TSI-12

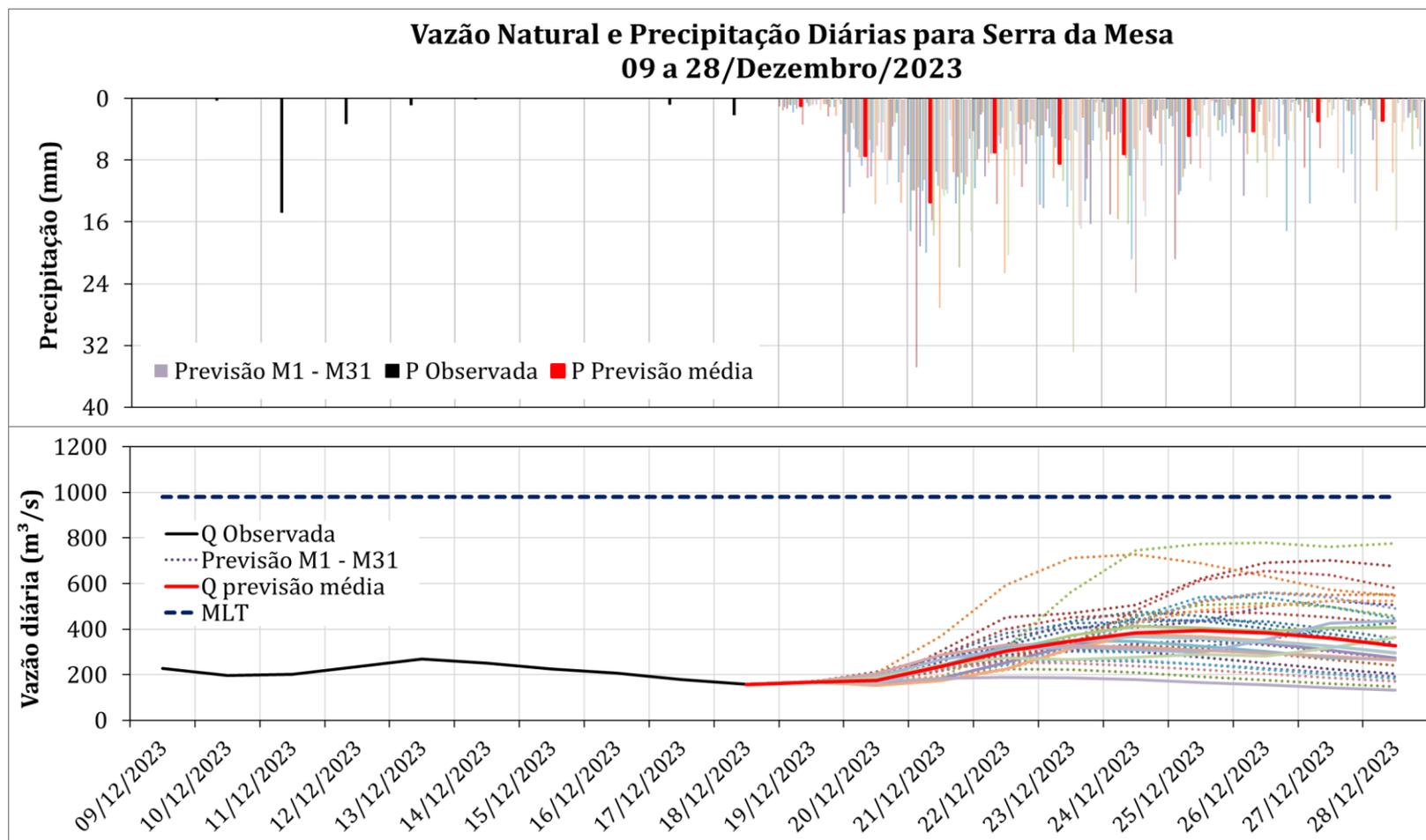


Seca Hidrológica Fraca

Índice Padronizado Bivariado (Chuva-Vazão) - TSI-12



Serra da Mesa: Previsão de Vazão (modelo hidrológico PDM-CEMADEN)



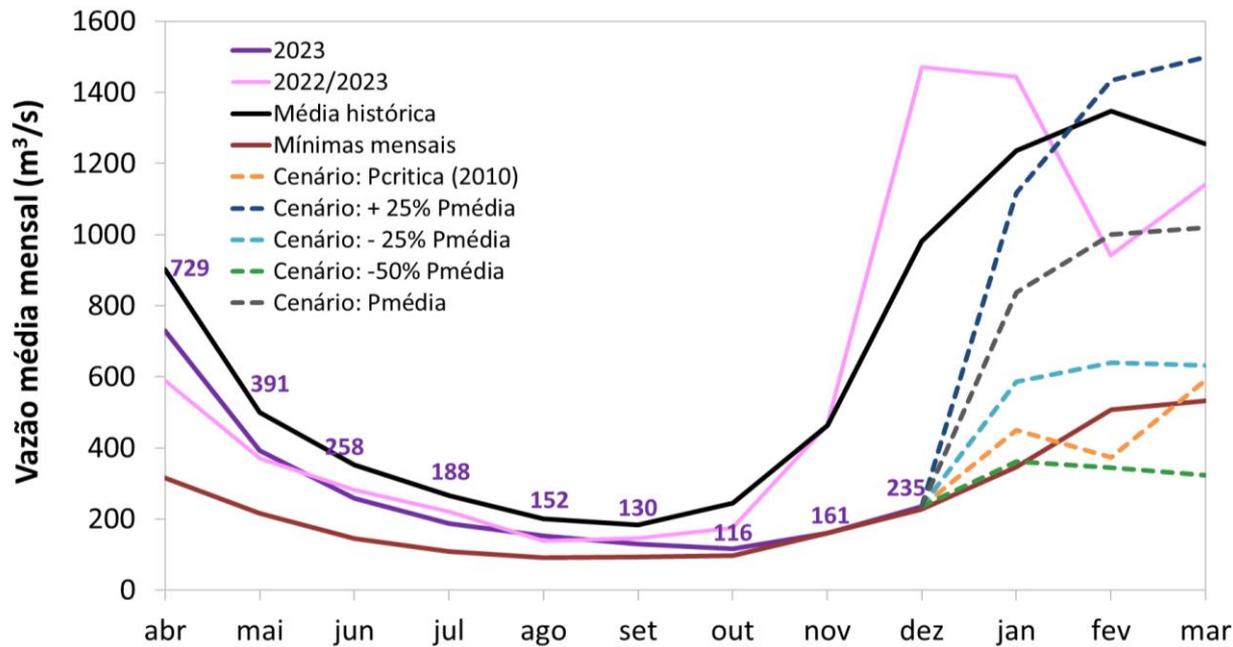
Dados **observados de precipitação** (barras pretas) para o período 09 a 18/12/23 e **previsão** para o período de 19/12 a 28/12/23.
Dados **observados de vazão** (linha preta) para o período 09 a 18/12/23 e **previsão** para o período de 19/12 a 28/12/23.

As barras coloridas correspondem às previsões da chuva para os 31 membros GEFS/NOAA e à média destes membros.

As linhas coloridas representam os membros de previsão de vazão.

Previsão média para os próximos 10 dias: 308 m³/s

Serra da Mesa: Projeção de Vazão (modelo hidrológico PDM-CEMADEN)

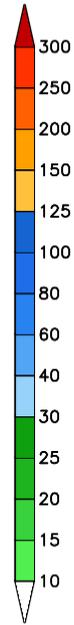
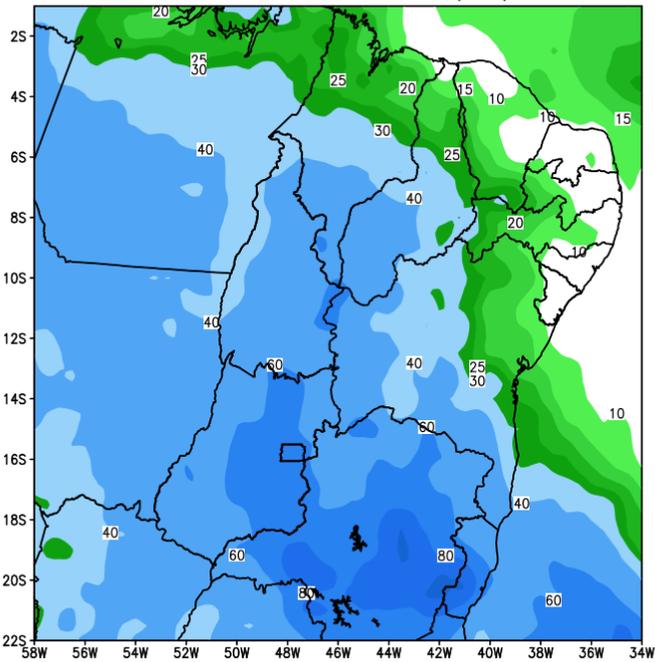


Janeiro - Março
MLT: 1279 m³/s

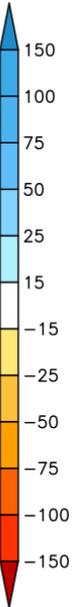
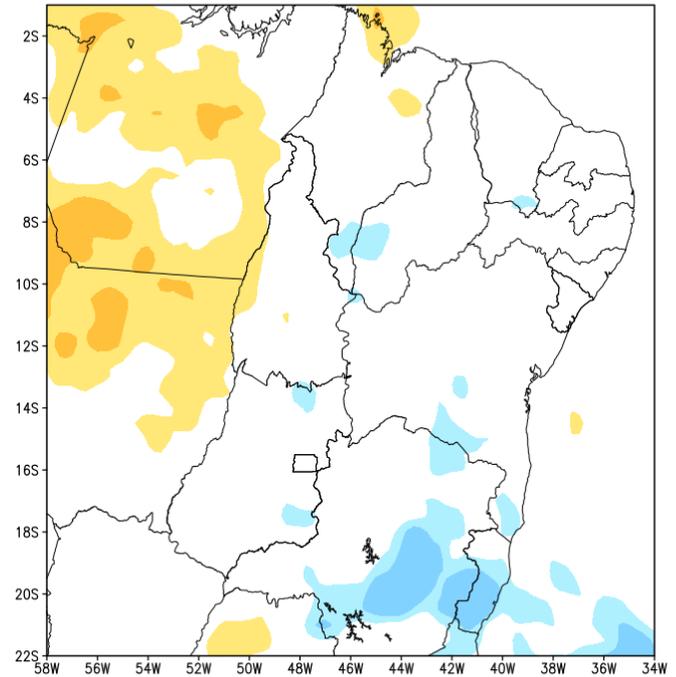
Vazão	% MLT
1350 m³/s	106%
953 m³/s	74%
619 m³/s	48%
343 m³/s	27%
471 m³/s	37%

Tendência para a 2a Semana

GEFS / BRASIL_NE
Precipitacao acumulada 2aSem (mm)
Previsao das 00Z dia 20/12/2023

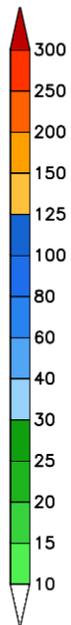
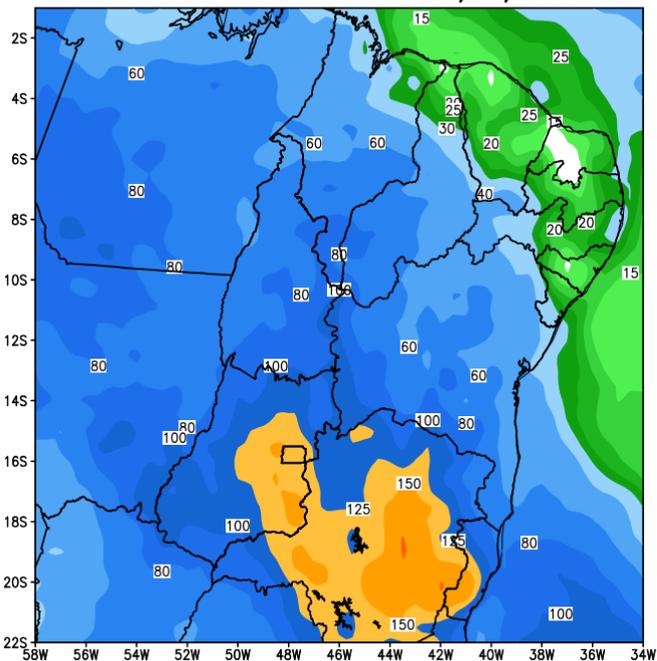


Anomalia de Precipitacao BR NE (mm)
Periodo: 2023122800 a 2024010300

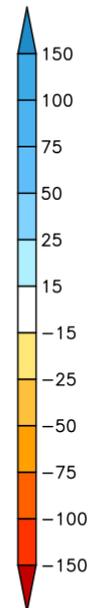
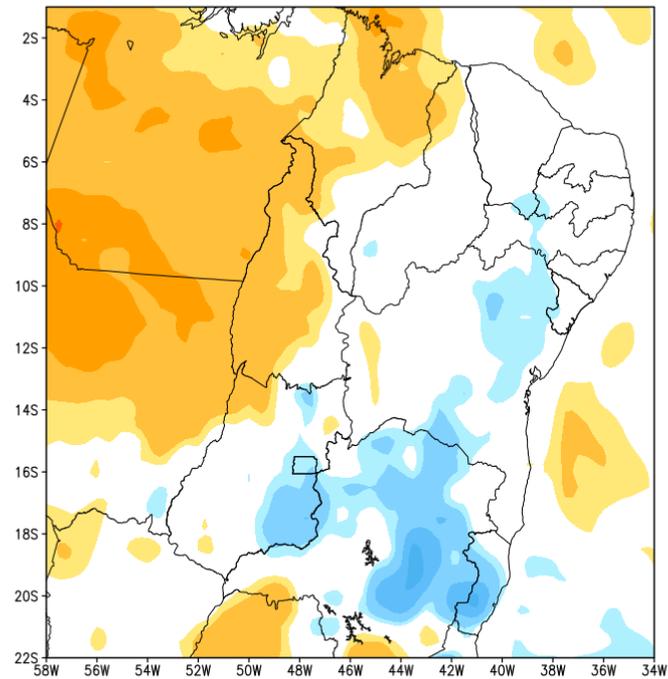


Tendência para as próximas duas semanas

GEFS / BRASIL_NE
Precipitacao acumulada 14dias (mm)
Previsao das 00Z dia 20/12/2023

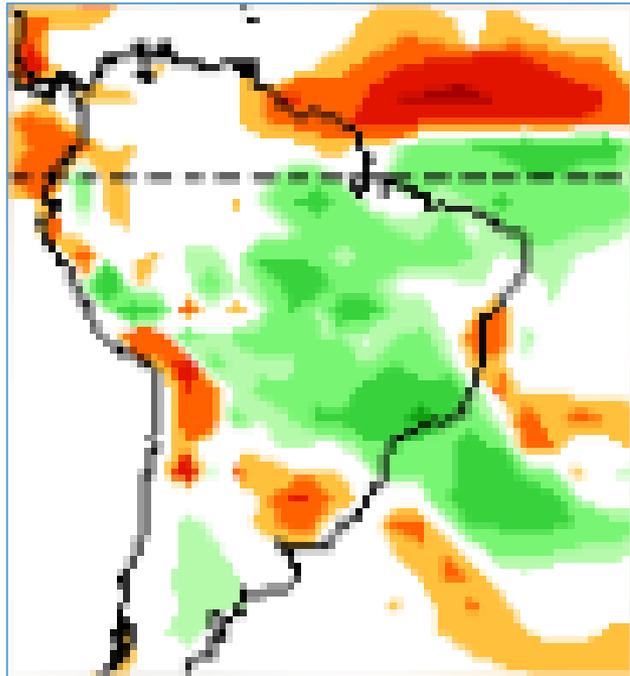


Anomalia de Precipitacao BR NE (mm)
Periodo: 2023122000 a 2024010300

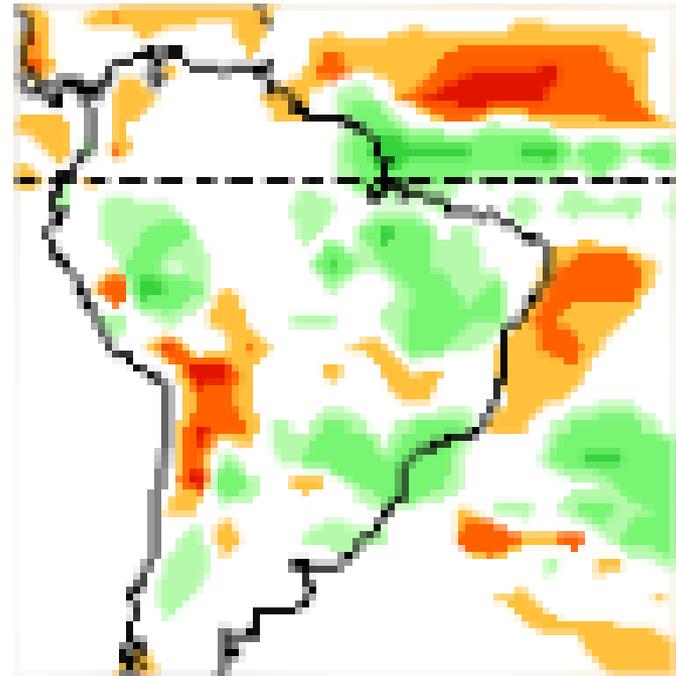


Tendência 3a e 4a semanas

03-09/01

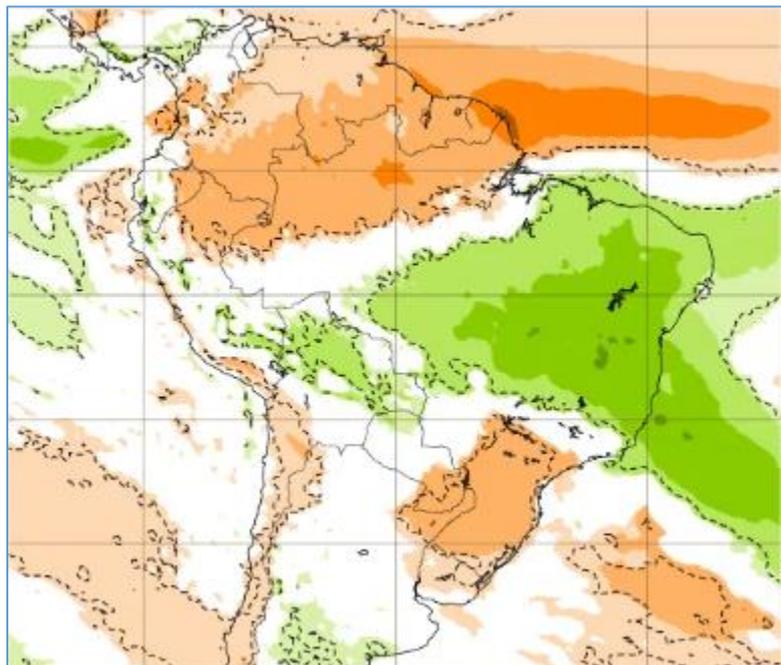


10-16/01

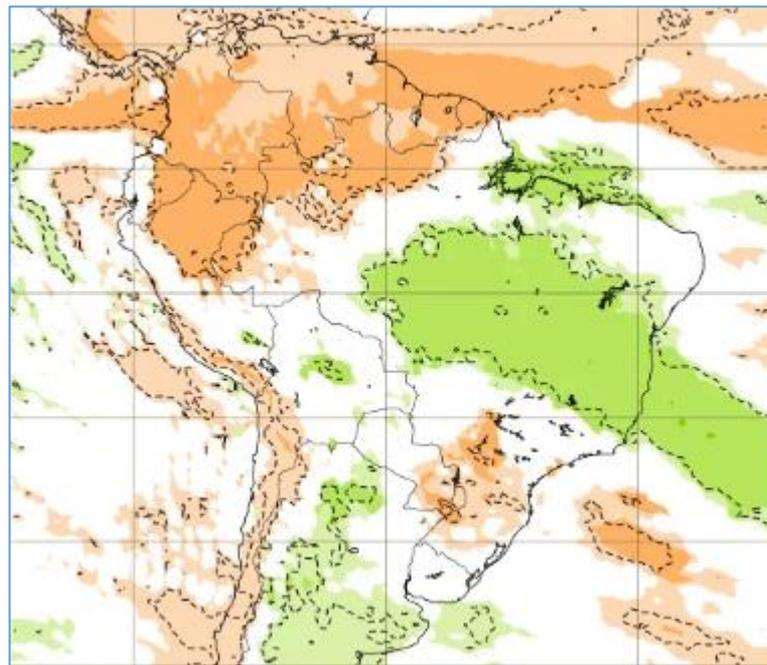


Tendência para 3ª e 4ª semanas

01-08/01

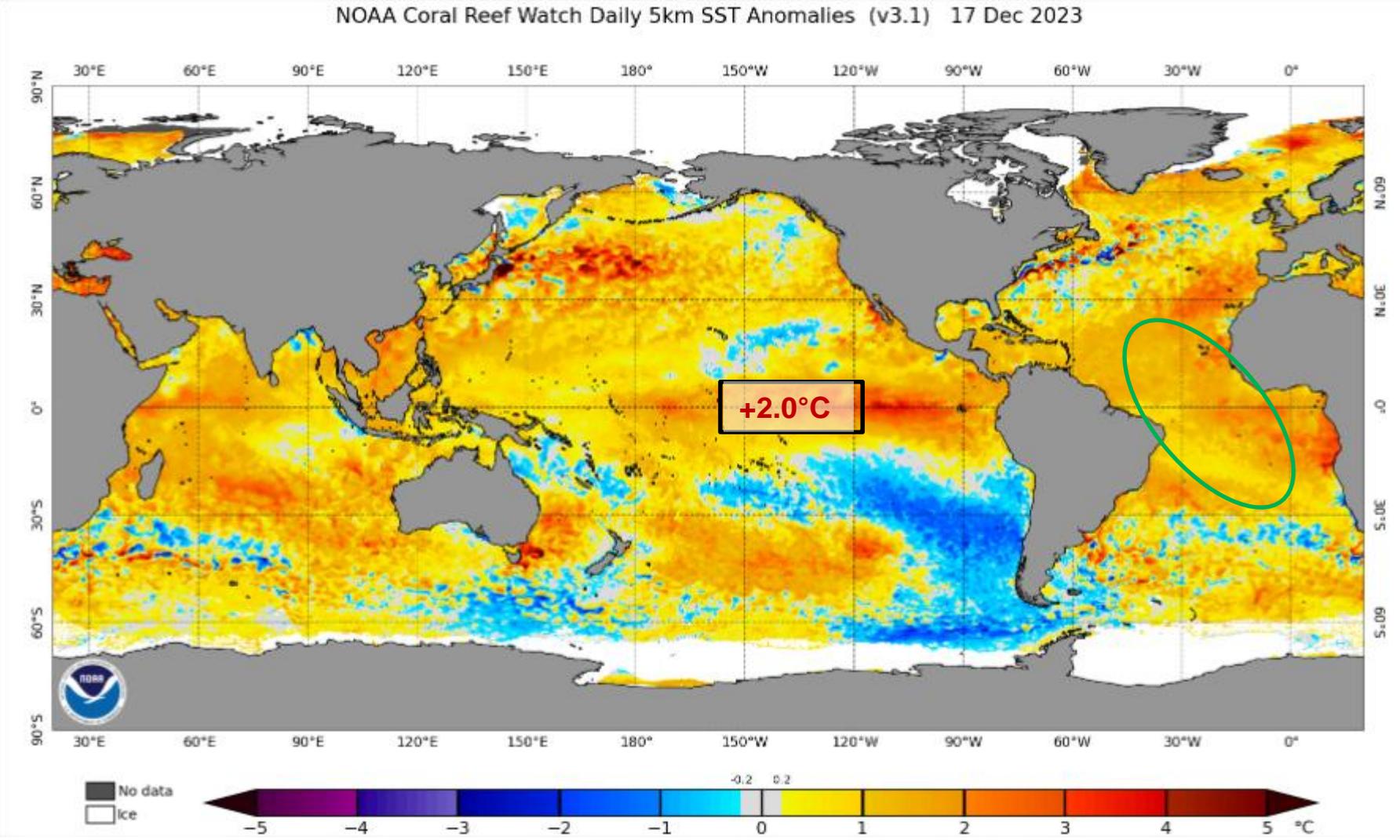


08-15/01

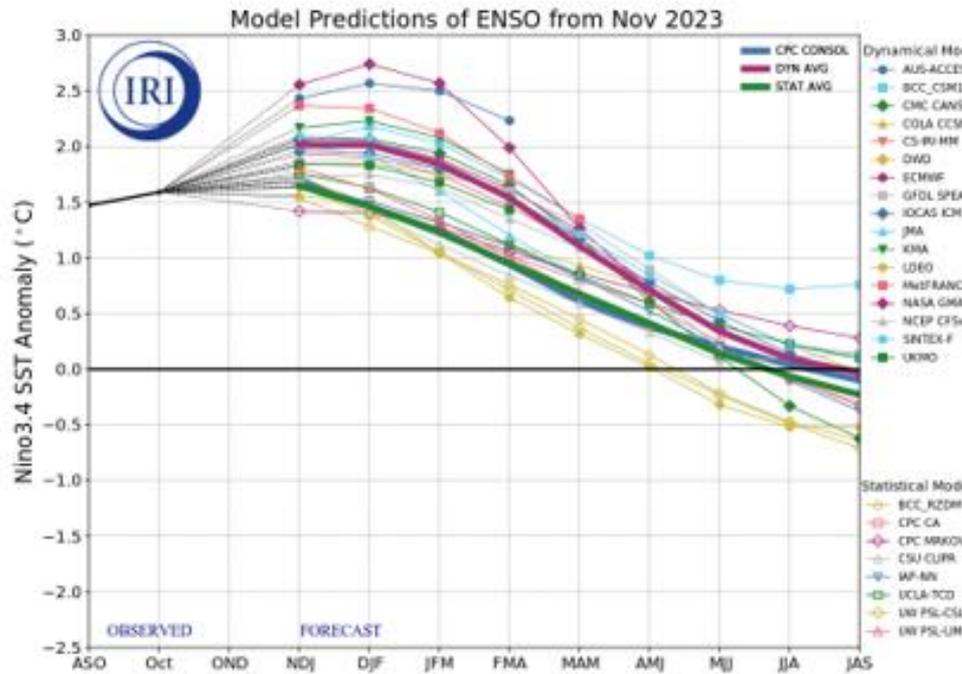


Status Atual: **El Niño**

NOAA Coral Reef Watch Daily 5km SST Anomalies (v3.1) 17 Dec 2023



Previsão do “ENSO”



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

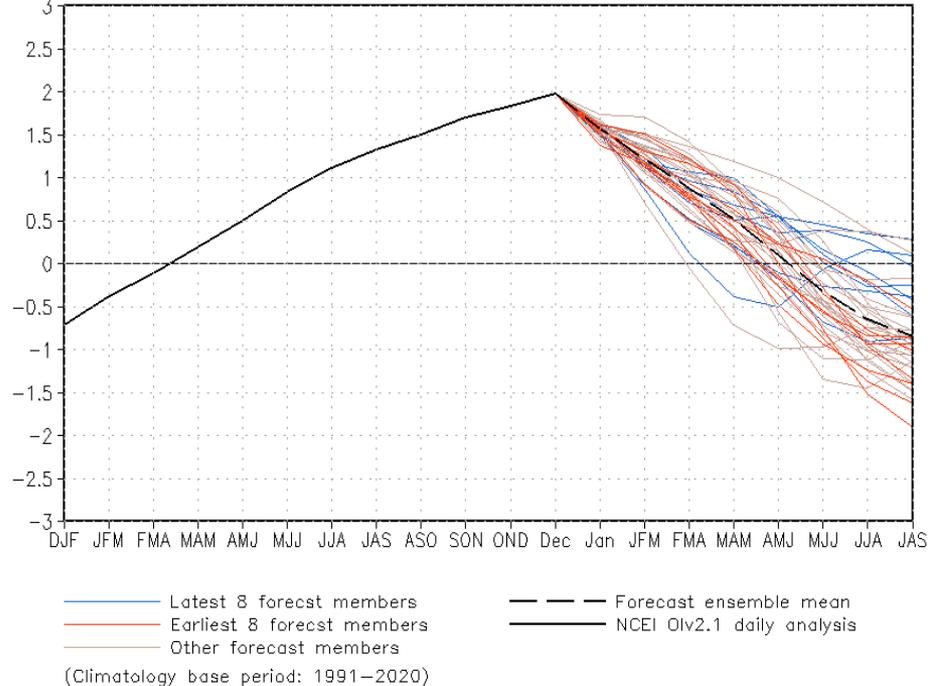


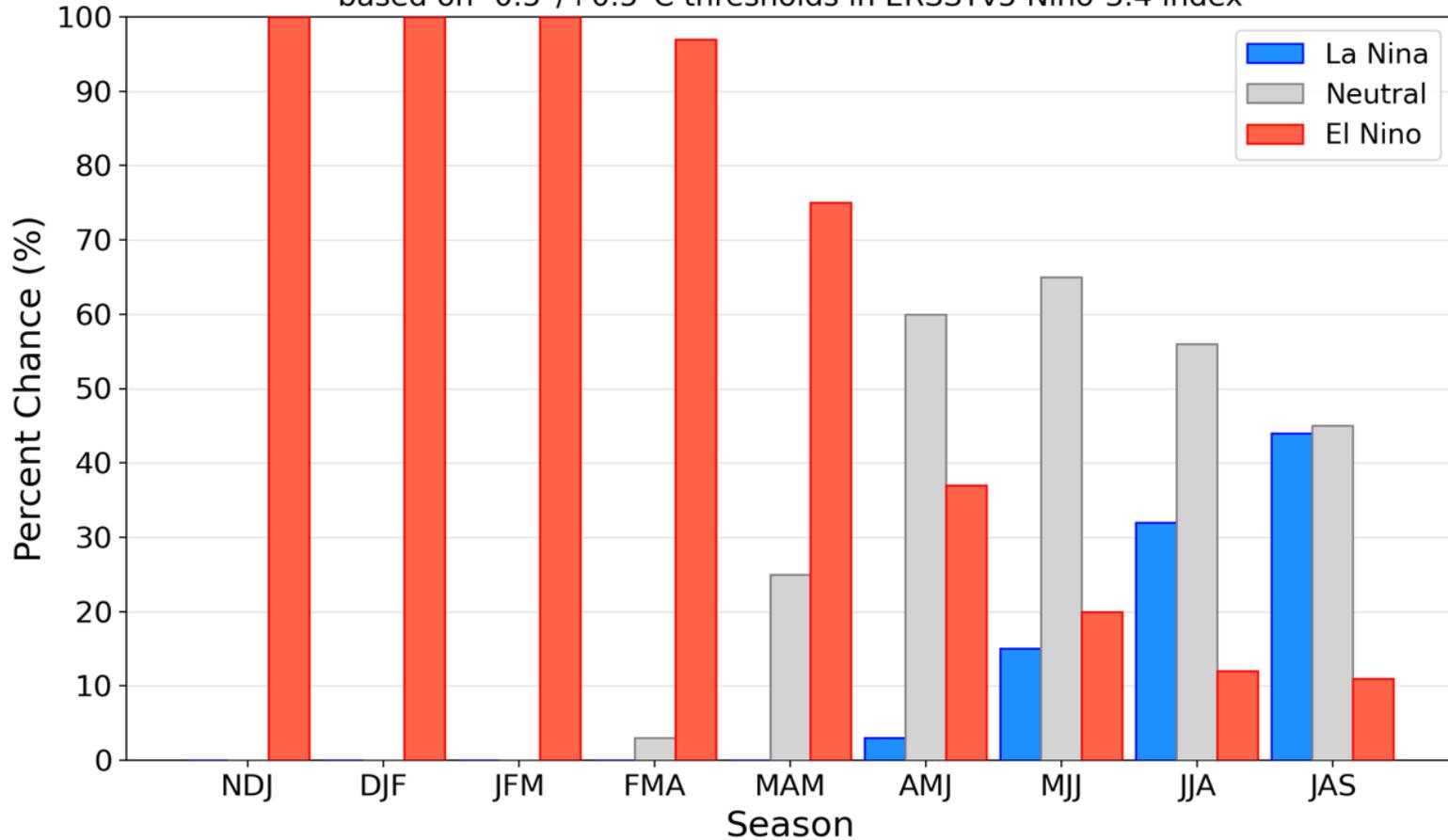
Figure provided by the International Research Institute (IRI) for Climate and Society (updated 20 November 2023).

Atualizado 18 de dezembro

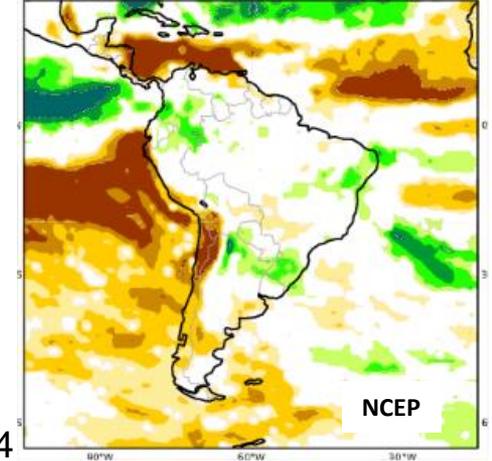
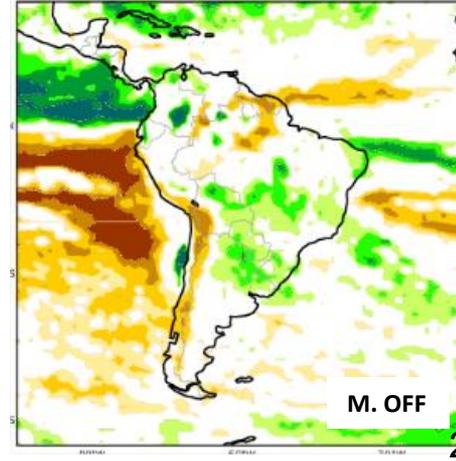
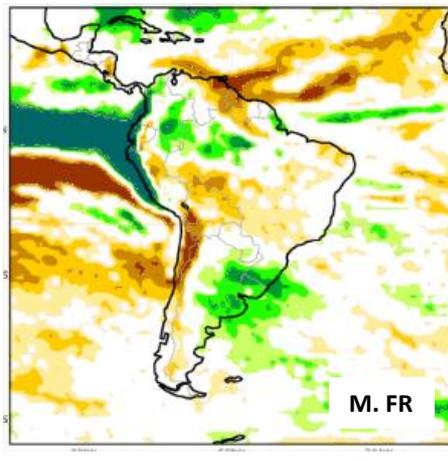
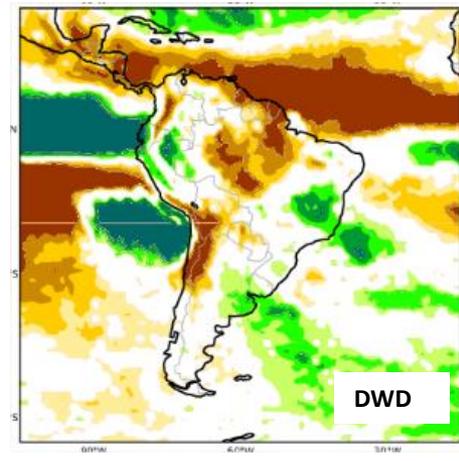
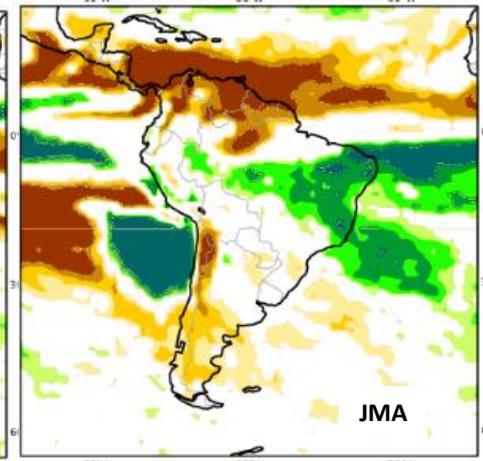
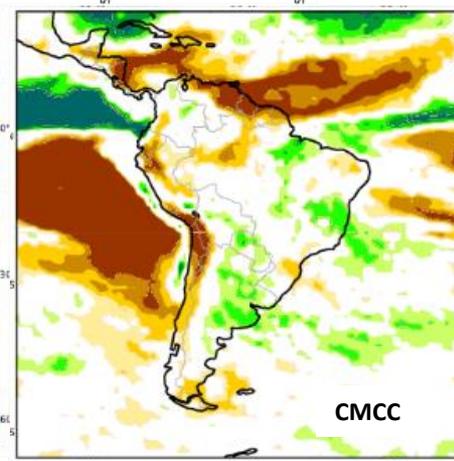
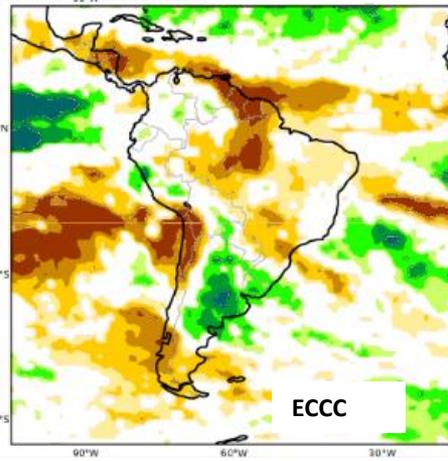
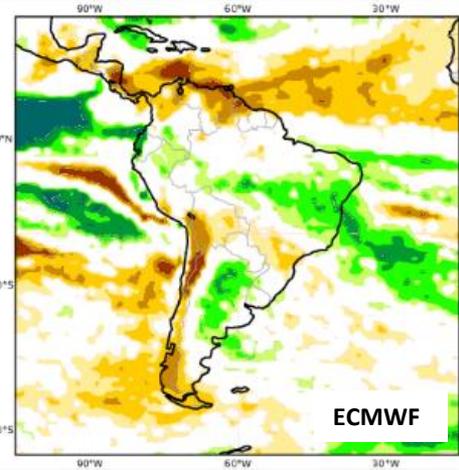
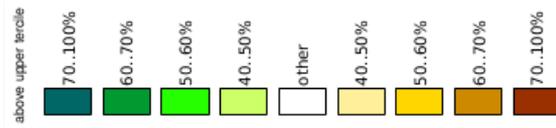
Previsão do “ENSO”

Official NOAA CPC ENSO Probabilities (issued Dec. 2023)

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

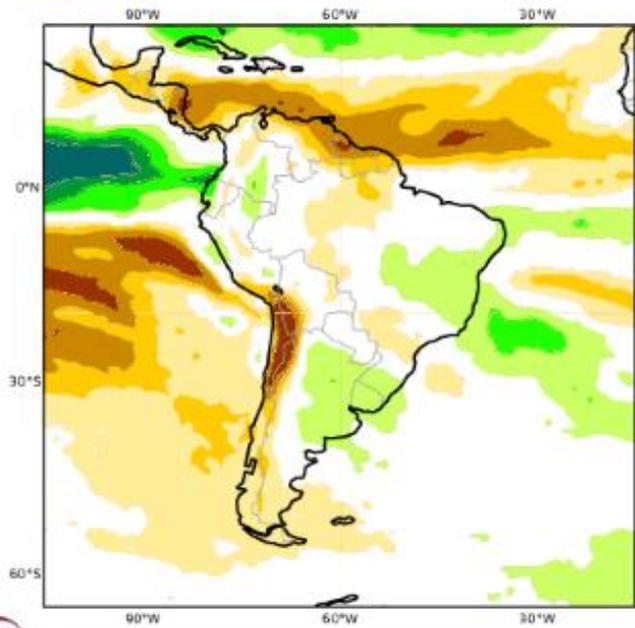


Previsão Sazonal de Chuva JFM

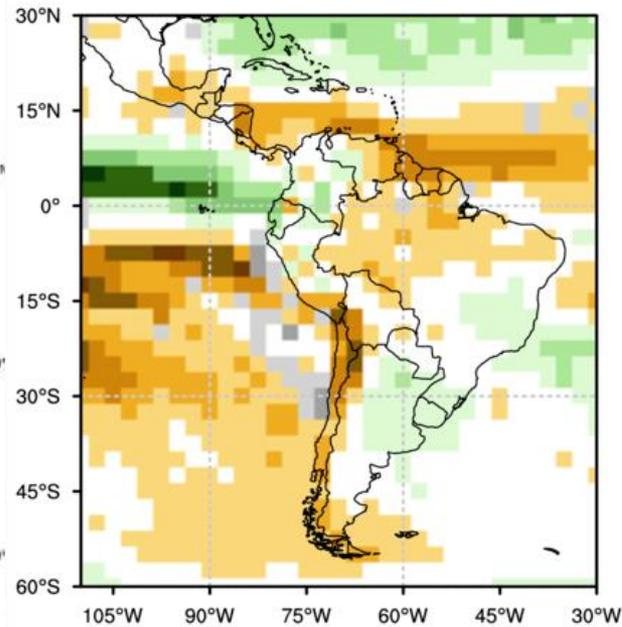


Previsão Sazonal de Chuva Multi-Modelo para JFM

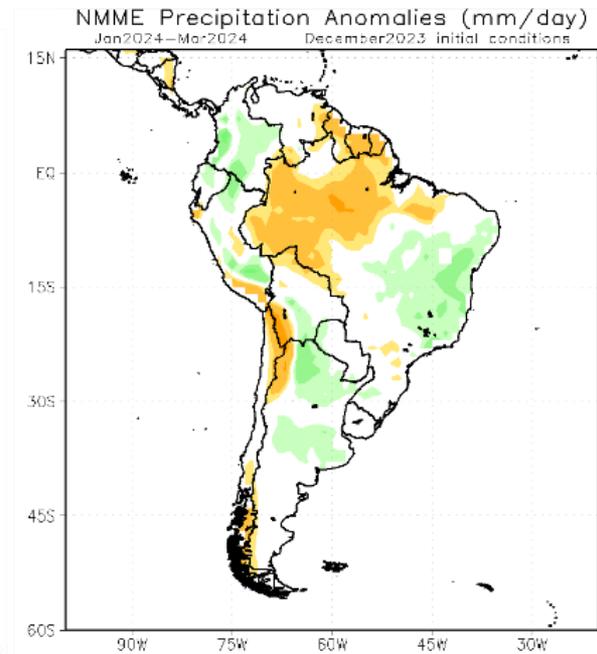
C3S multi-system seasonal forecast
Prob(most likely category of precipitation)
Nominal forecast start: 01/12/23
Unweighted mean



Modelos Europeus



Modelos da Organização Meteorológica Mundial



Modelos Americanos