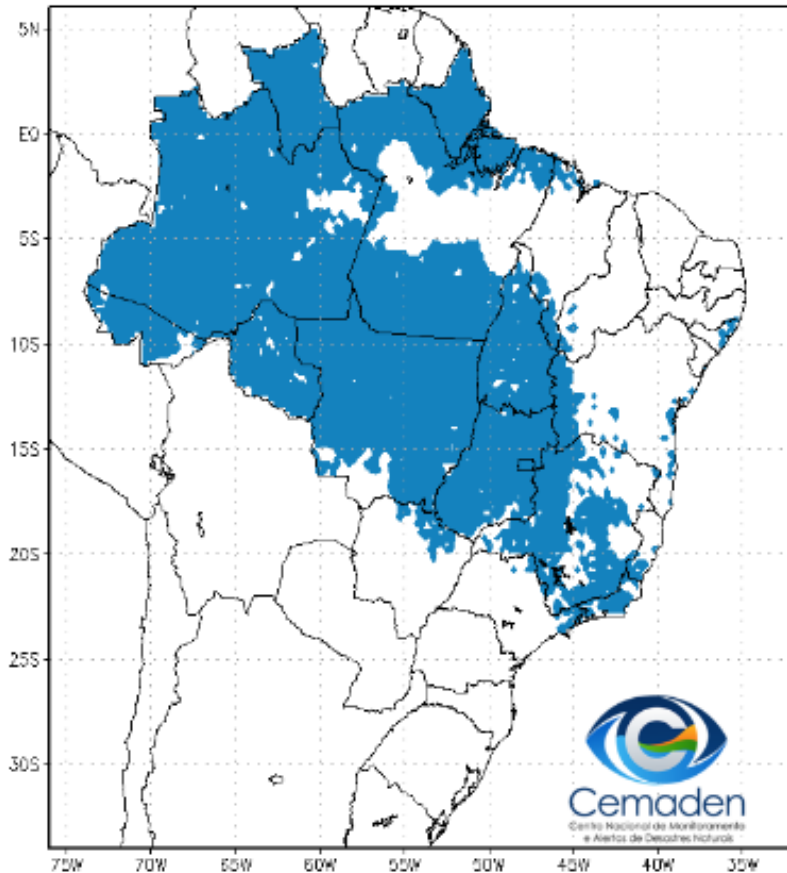


Monitoramento e Previsões para a Bacia do rio Tocantins

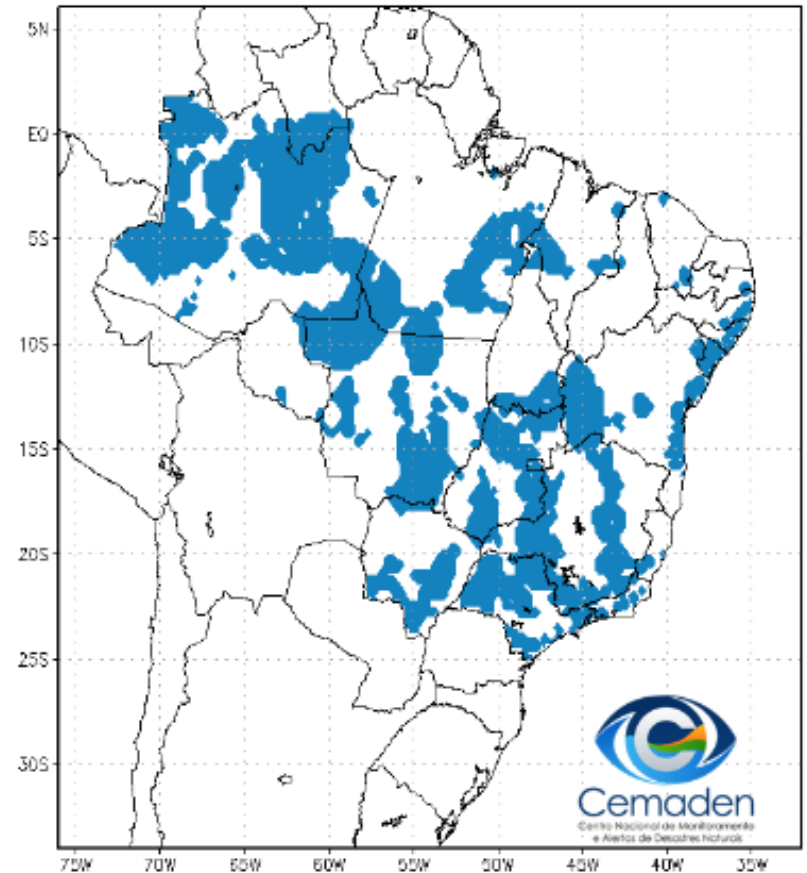


Situação da Estação Chuvosa

Climatologia da Precipitação (1999–2022)
Superior 3 mm/dia em 4 de 5 dias Período: 27/1

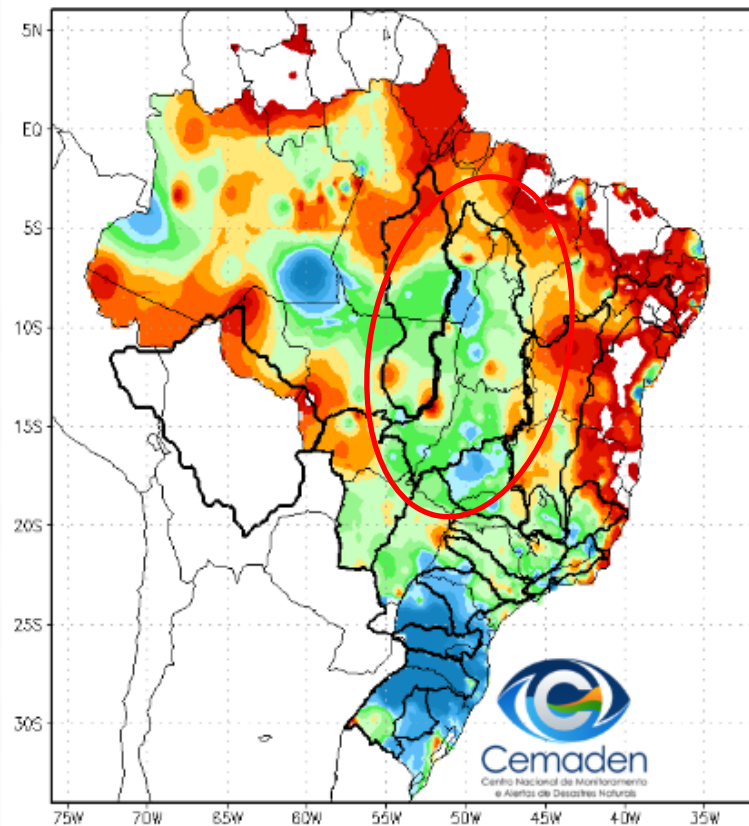


Precipitação Superior 3 mm/dia em 4 de 5 dias
Período: 27/11/2023

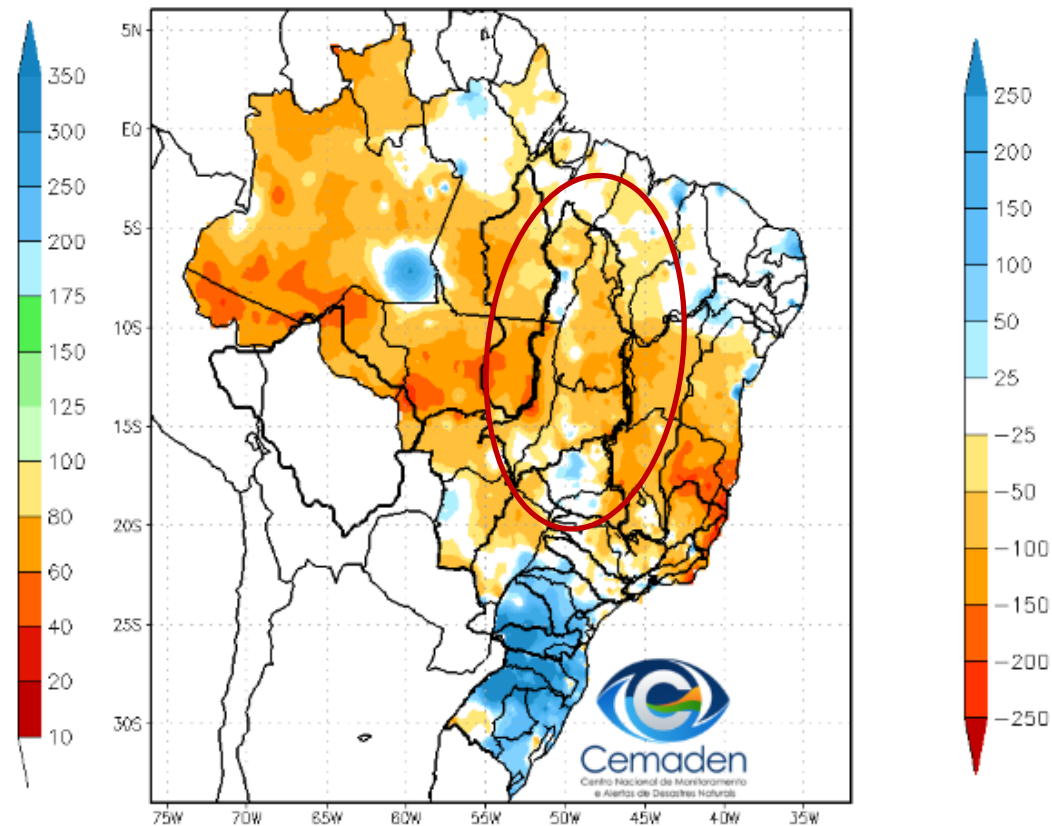


Precipitação acumulada nos últimos 30 dias

Precipitação Acumulada (mm) A.S.
Período: 29/10/2023 a 28/11/2023

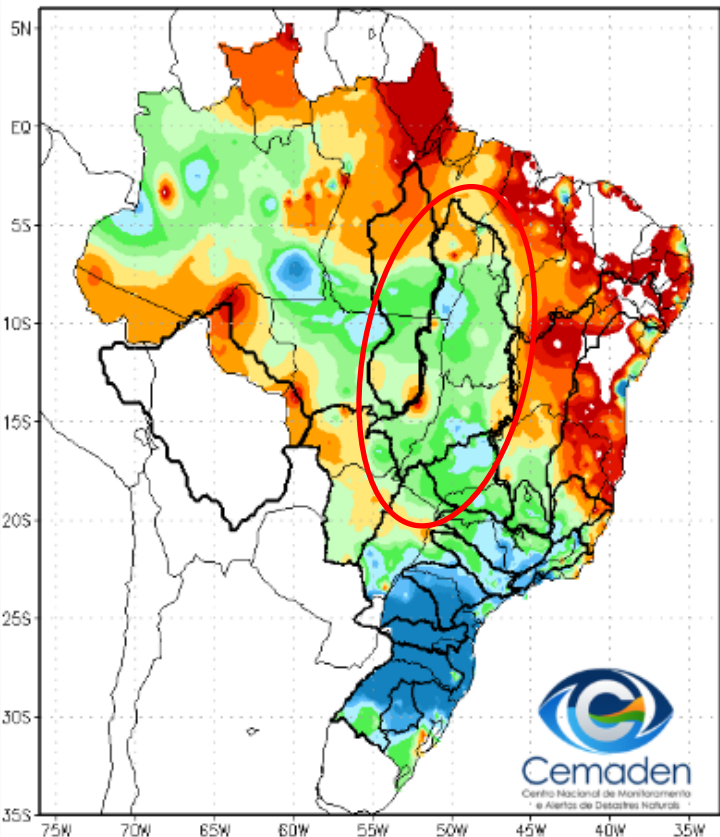


Anomalia de Precipitação (mm) A.S.
Período: 29/10/2023 a 28/11/2023

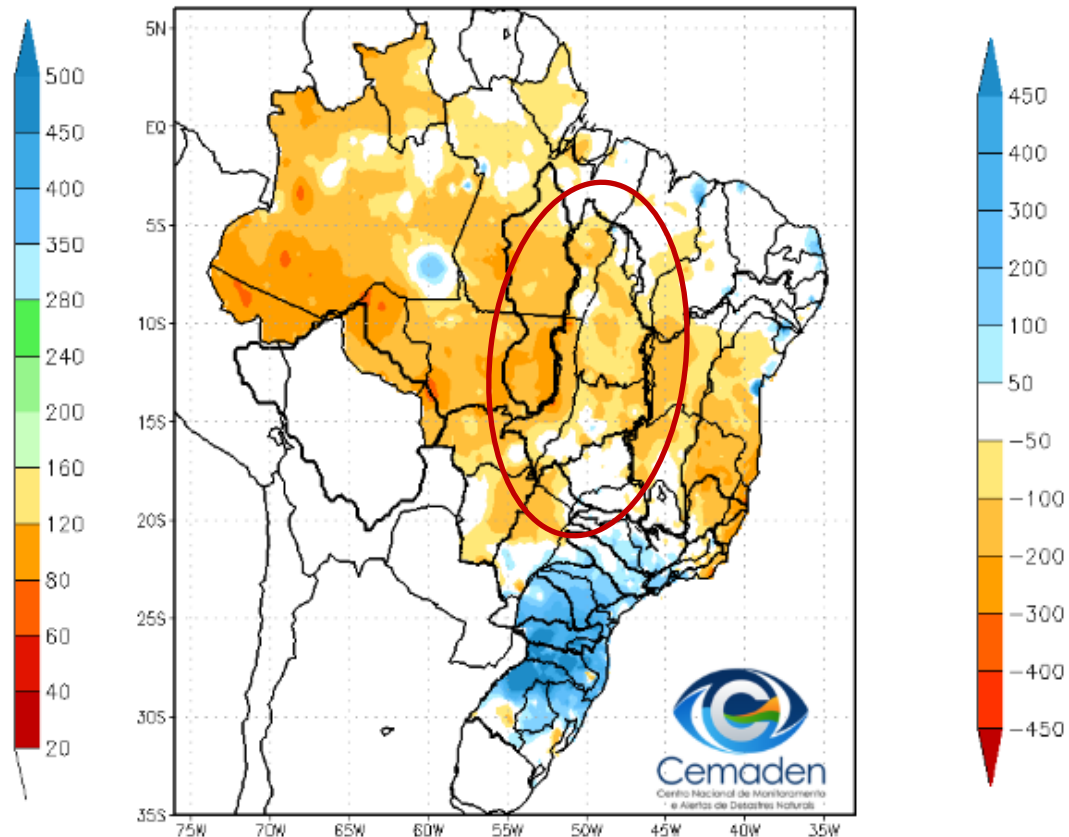


Precipitação acumulada no Ano Hidrológico

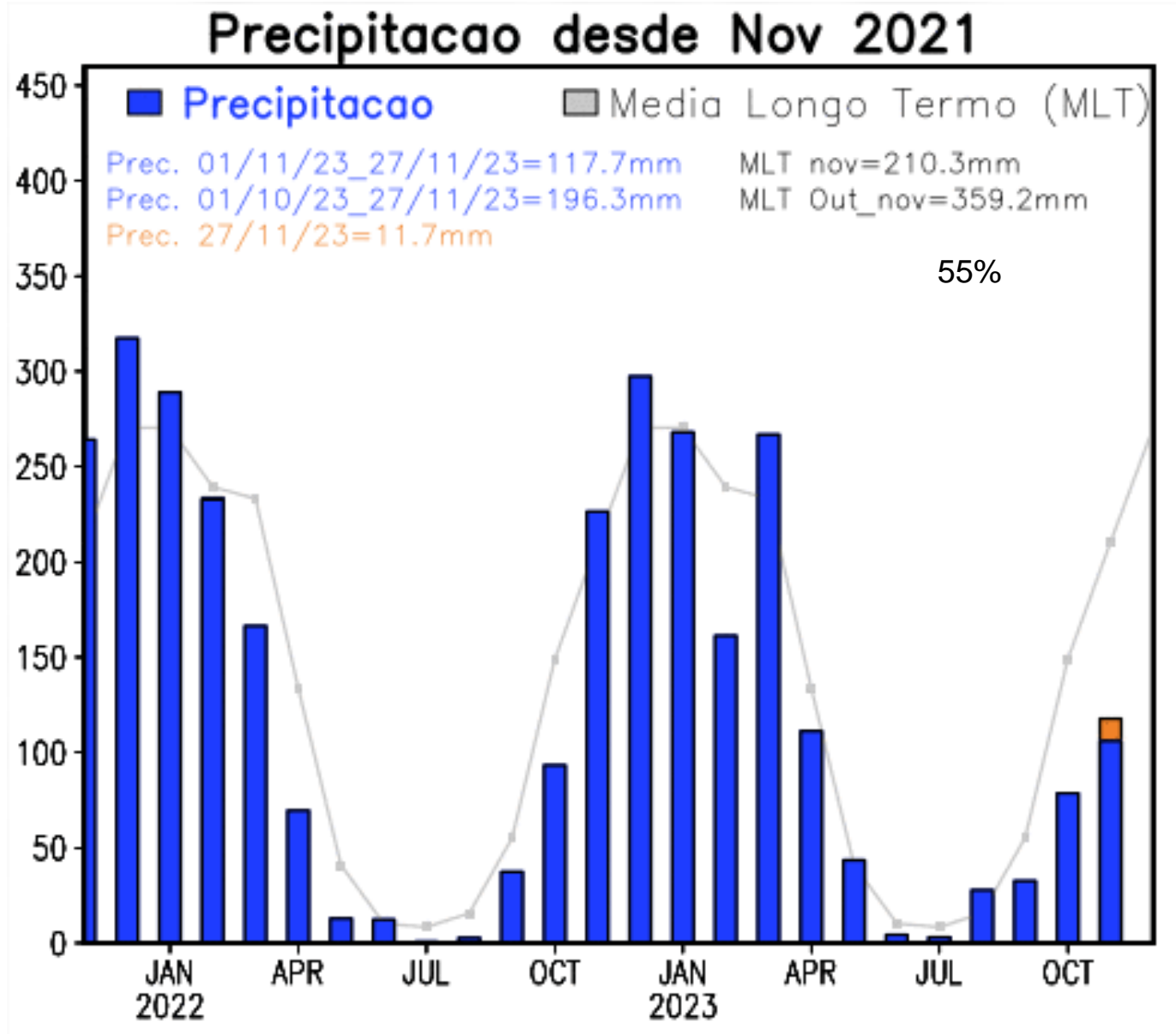
Precipitação Acumulada (mm) A.S.
Período: 01/10/2023 a 28/11/2023



Anomalia de Precipitação (mm) A.S.
Período: 01/10/2023 a 28/11/2023



Evolução da Precipitação



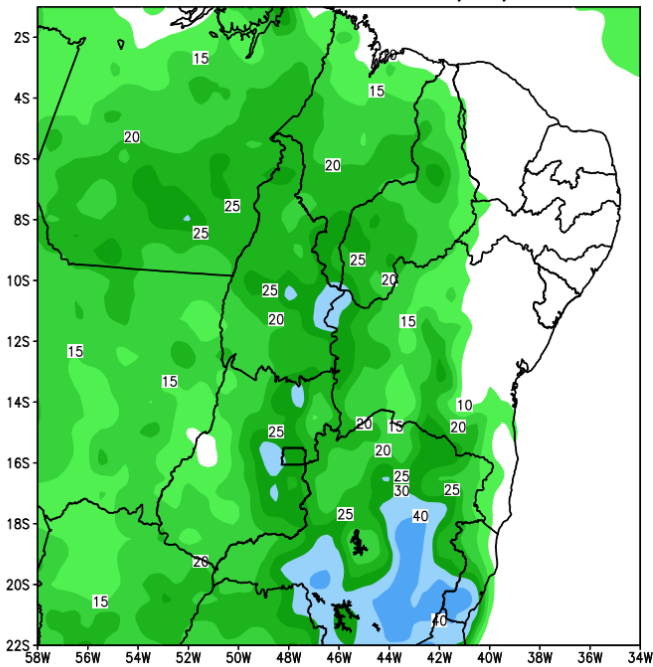
FONTE:
INPE

Situação meteorológica atual

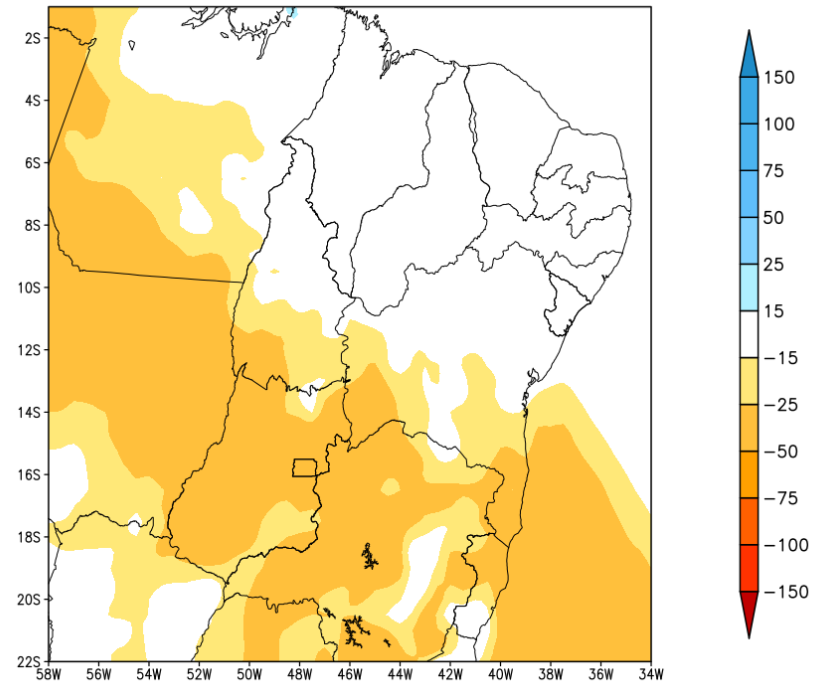


Previsão de chuva próximos 7 dias

GEFS / BRASIL_NE
Precipitacao acumulada 1aSem (mm)
Previsao das 00Z dia 29/11/2023



Anomalia de Precipitacao BR NE (mm)
Periodo: 2023112900 a 2023120600



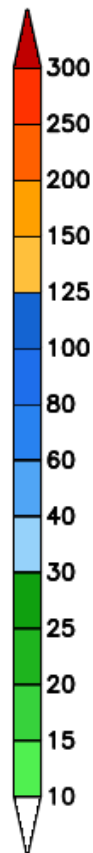
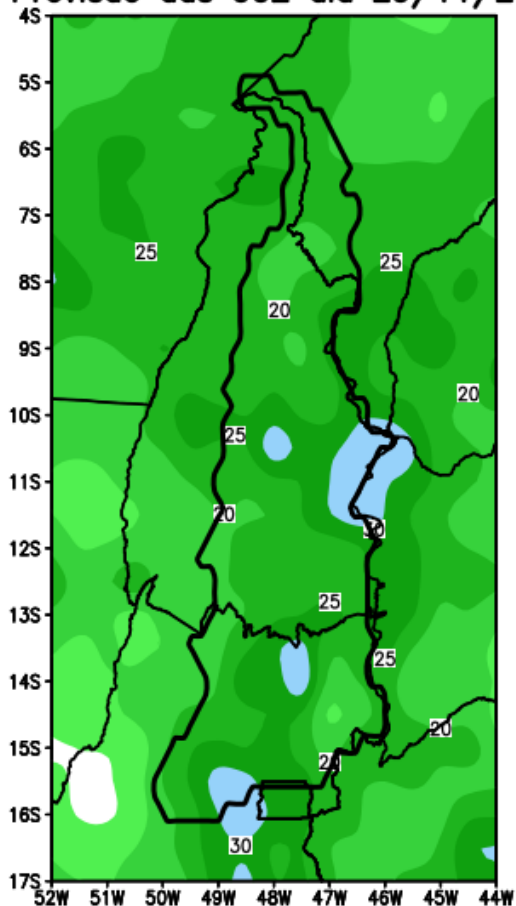
Fonte: GFS/NOAA

Previsão Bacia Rio Tocantins

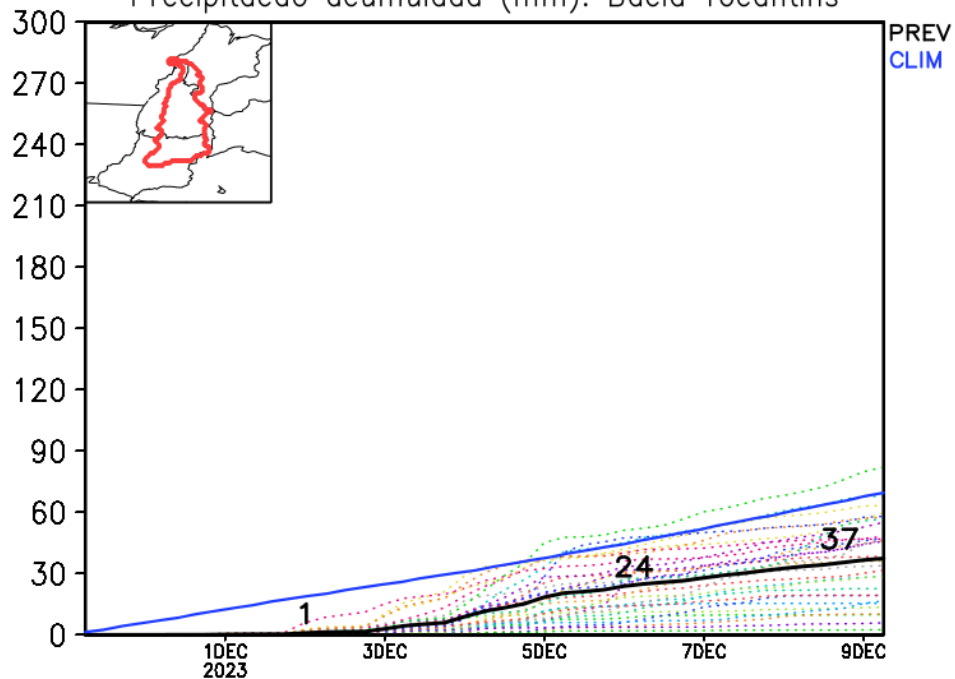
GEFS / Bacia Tocantins

Precipitacao acumulada em 7 dias (mm)

Previsao das 00Z dia 29/11/2023

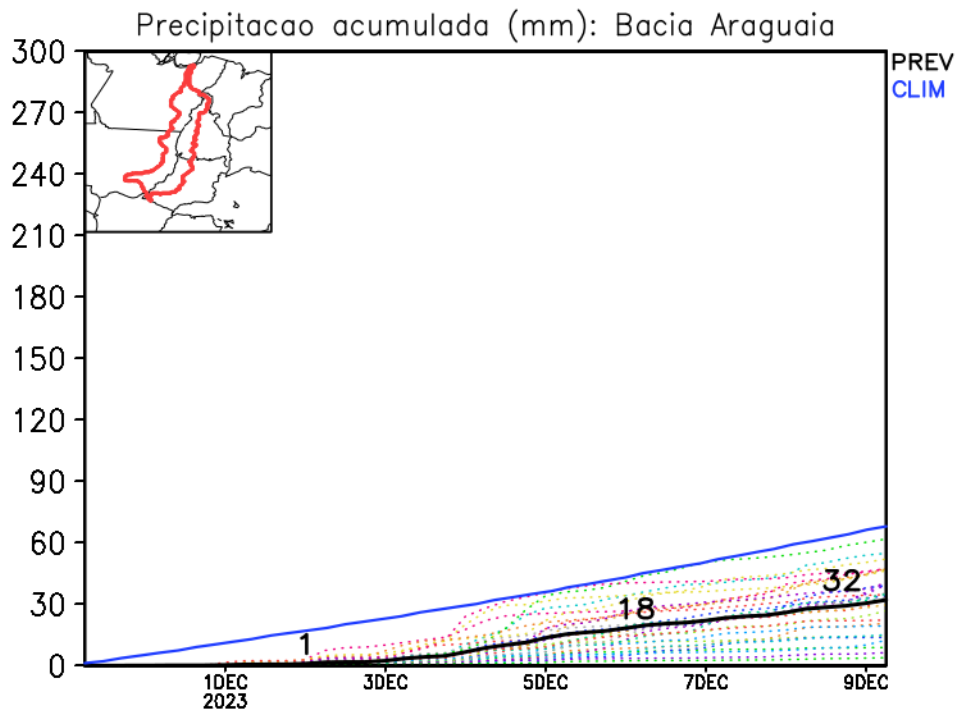
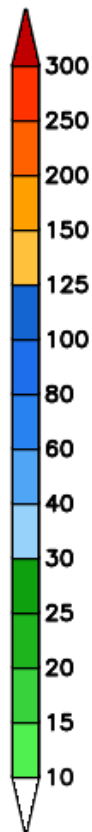
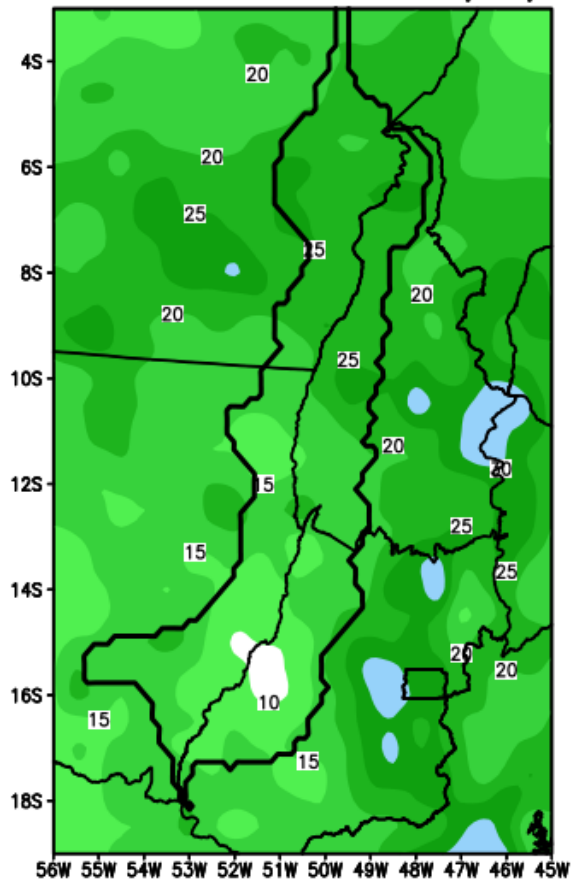


Precipitacao acumulada (mm): Bacia Tocantins



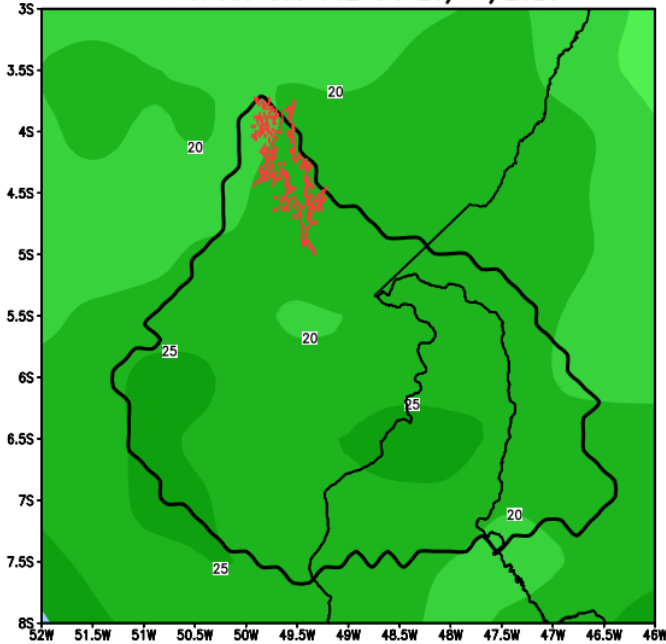
Previsão Bacia Rio Araguaia

GEFS / Bacia do Rio Araguaia
Precipitação acumulada em 7 dias (mm)
Previsão das 00Z dia 29/11/2023

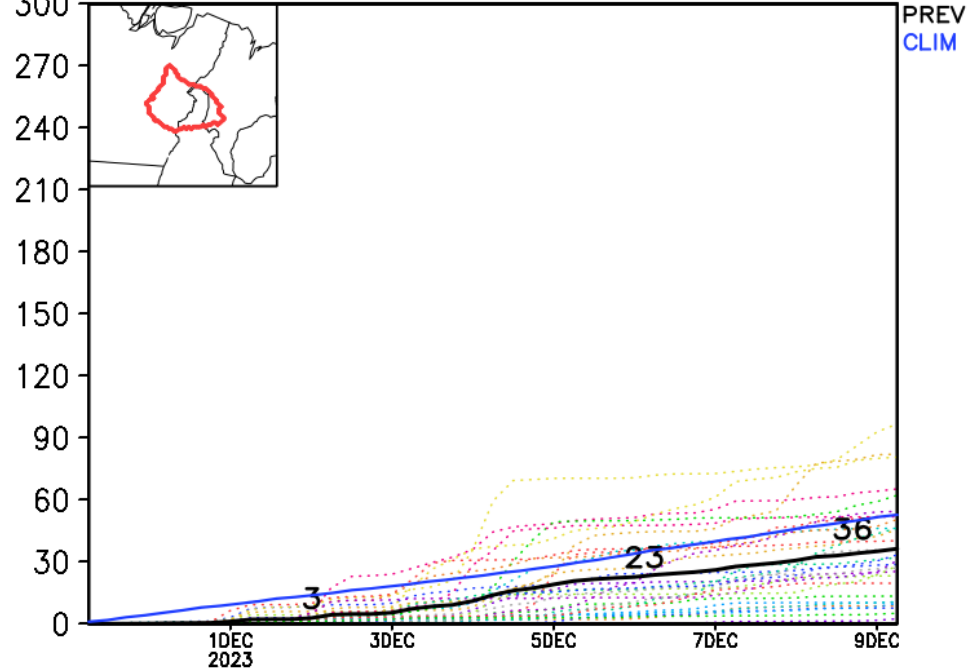


Previsão Bacia Tocantins (Baixo)

GEFS / Bacia Baixo Tocantins
Precipitação acumulada em 7 dias (mm)
Previsão das 00Z dia 29/11/2023

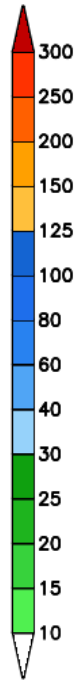
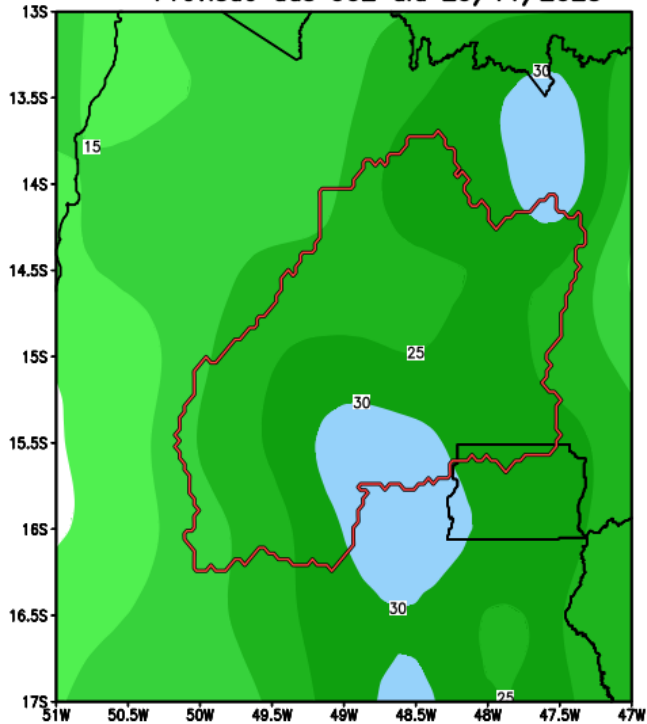


Precipitação acumulada (mm): Bacia Tocantins–Baixo

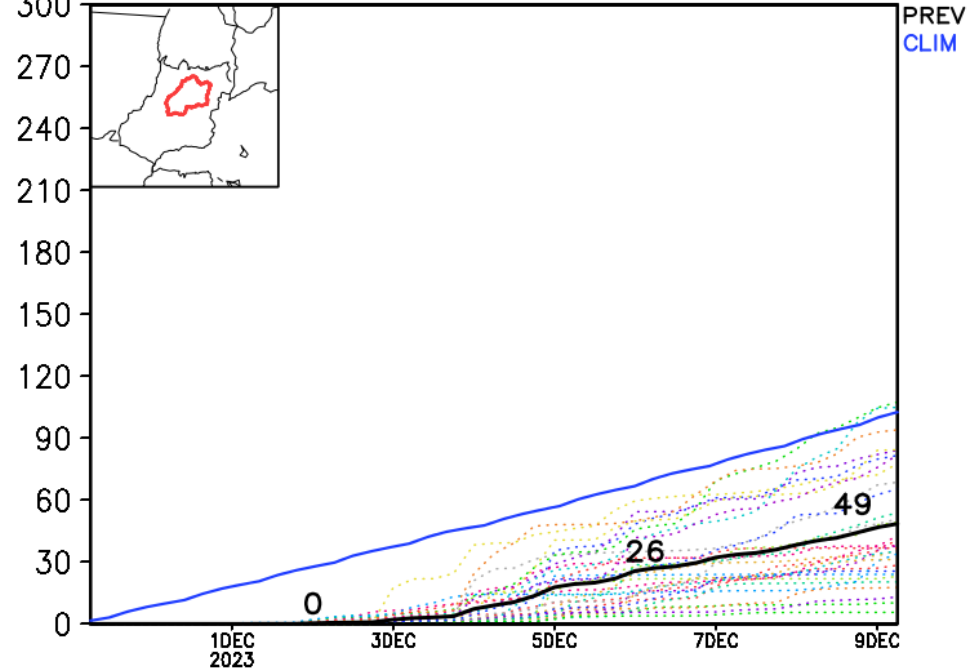


Previsão Bacia Serra da Mesa

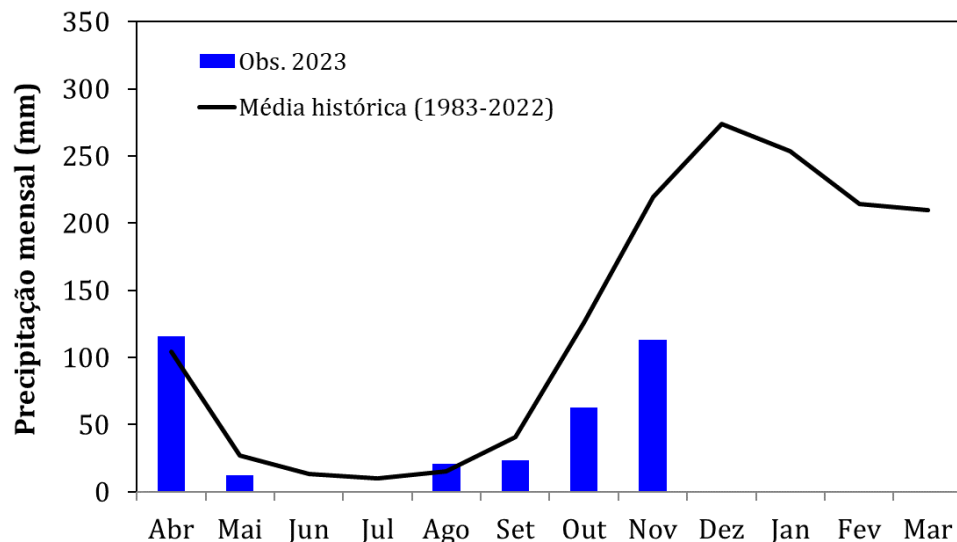
GEFS / Bacia Serra da Mesa
Precipitacao acumulada em 7 dias (mm)
Previsao das 00Z dia 29/11/2023



Precipitacao acumulada (mm): Bacia SerradaMesa



Monitoramento UHE Serra da Mesa



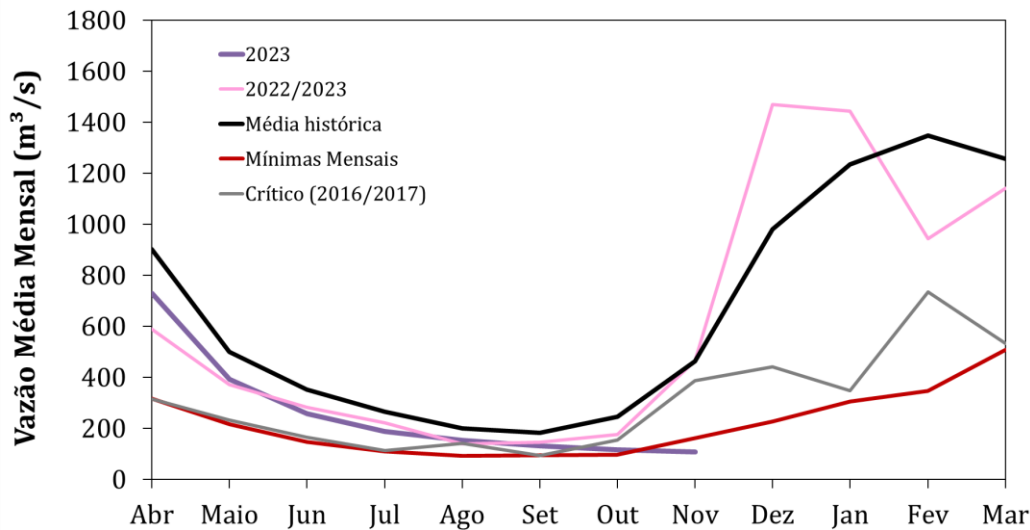
Precipitação

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)

Nov/2023*: 113 mm (Média histórica = 220 mm)

*Até 27/11/2023



Vazão

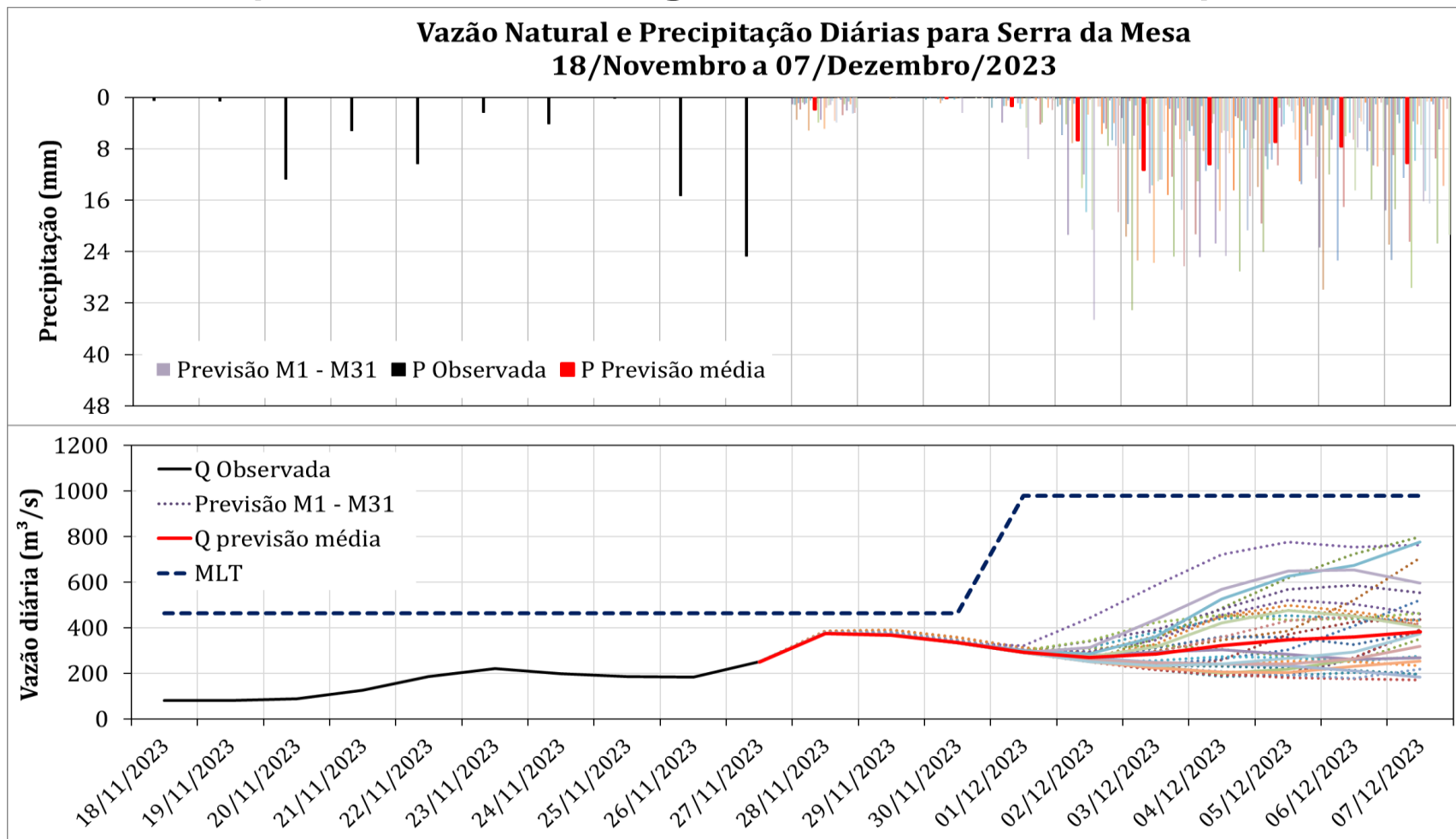
Estação Chuvosa - Out a Abr – 918 m³/s
 2021/2022: 1184 m³/s (129% da MLT)
 2022/2023: 909 m³/s (99% da MLT)

Estação Seca - Maio a Set – 300 m³/s
 2022: 231 m³/s (77% da MLT)
 2023: 224 m³/s (75% da MLT)

Novembro/2023*: 108 m³/s (23% da MLT)
27/Nov/2023: 251 m³/s (54% da MLT)

*Até 27/11/2023

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



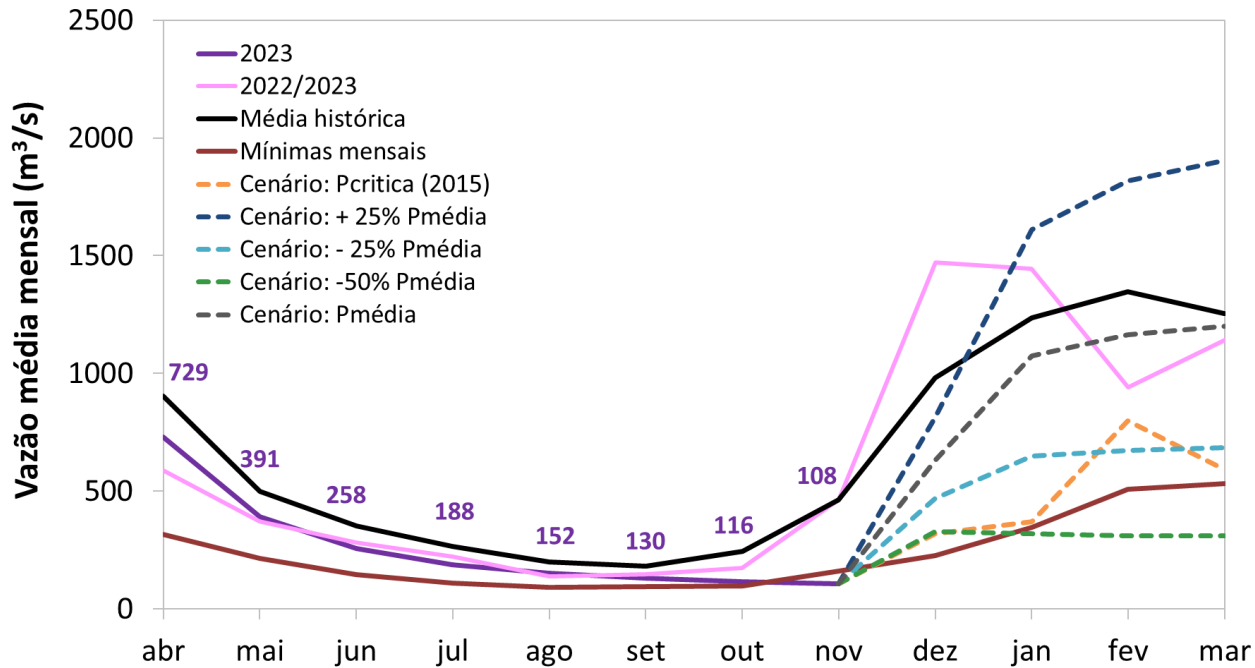
Dados **observados de precipitação** (barras pretas) para o período 18 a 27/11/23 e **previsão** para o período de 28/11 a 07/12/23.
Dados **observados de vazão** (linha preta) para o período 18 a 27/11/23 e **previsão** para o período de 28/11 a 07/12/23.

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: 334 m³/s

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

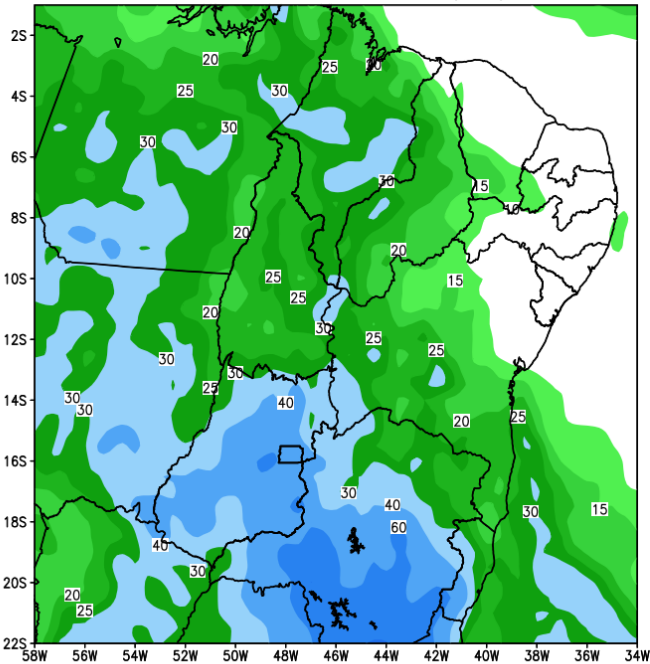


Dezembro - Março
MLT: 1204 m³/s

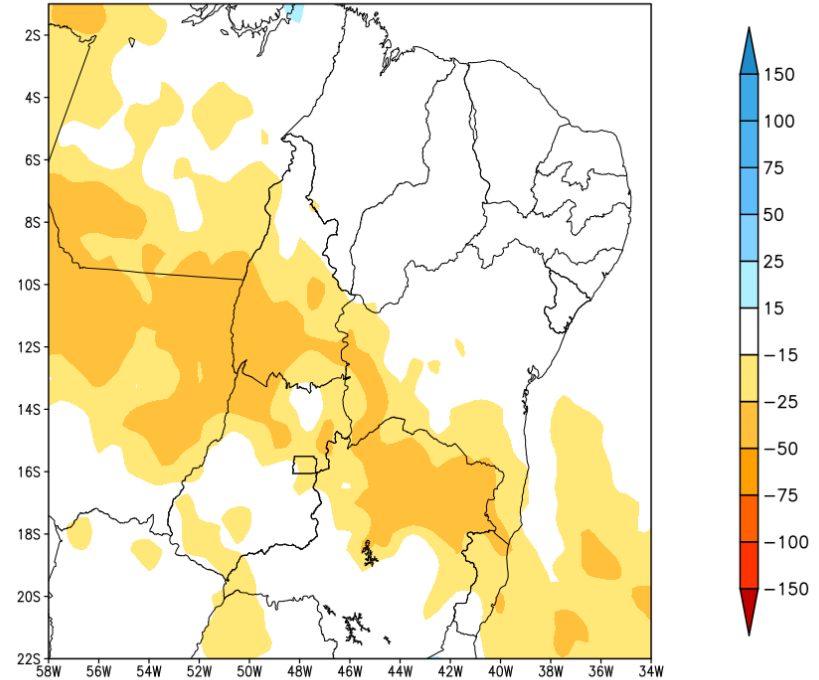
Vazão	% MLT
1536 m³/s	128%
1018 m³/s	85%
619 m³/s	51%
318 m³/s	26%
520 m³/s	43%

Tendência para a 2a Semana

GEFS / BRASIL_NE
Precipitacao acumulada 2aSem (mm)
Previsao das 00Z dia 29/11/2023

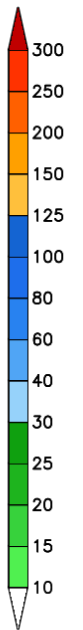
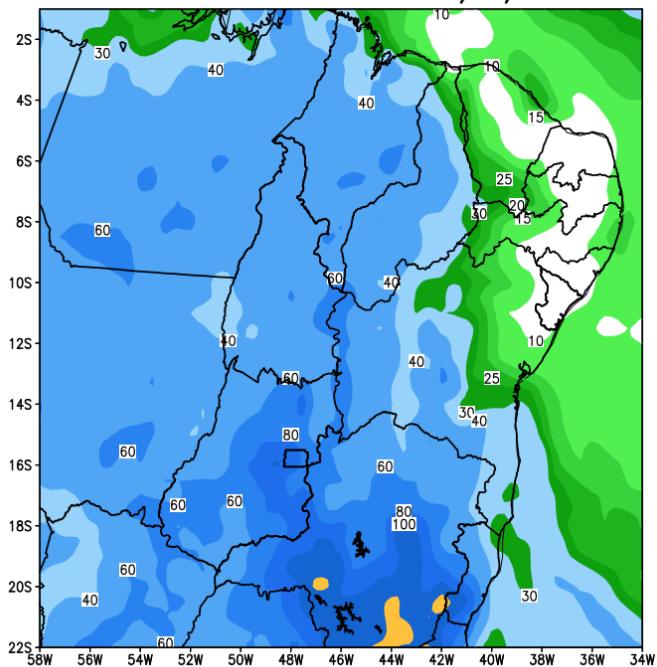


Anomalia de Precipitacao BR NE (mm)
Periodo: 2023120700 a 2023121300

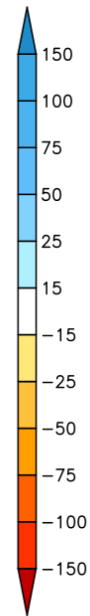
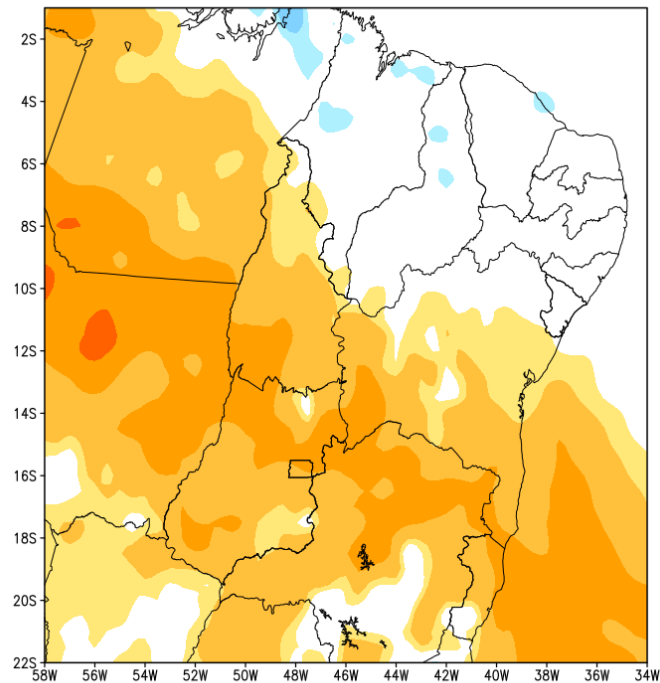


Tendência para as próximas duas semanas

GEFS / BRASIL_NE
Precipitacao acumulada 14dias (mm)
Previsao das 00Z dia 29/11/2023



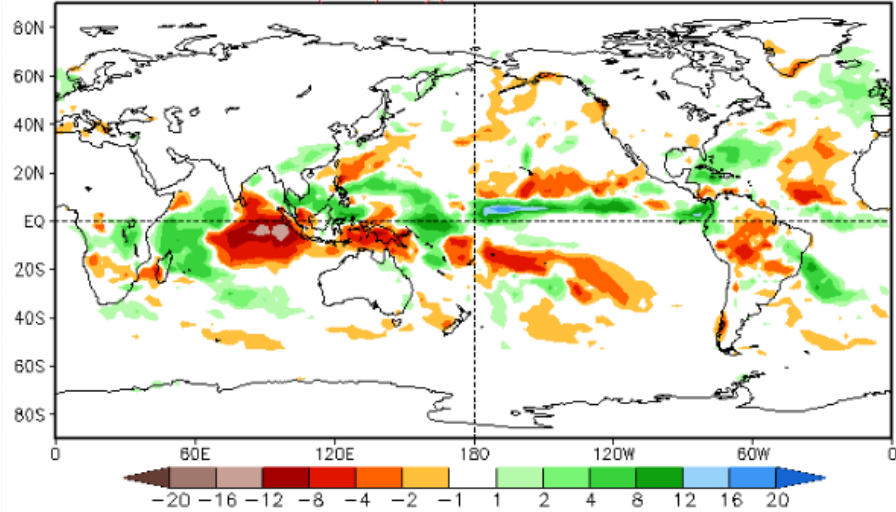
Anomalia de Precipitacao BR NE (mm)
Periodo: 2023112900 a 2023121300



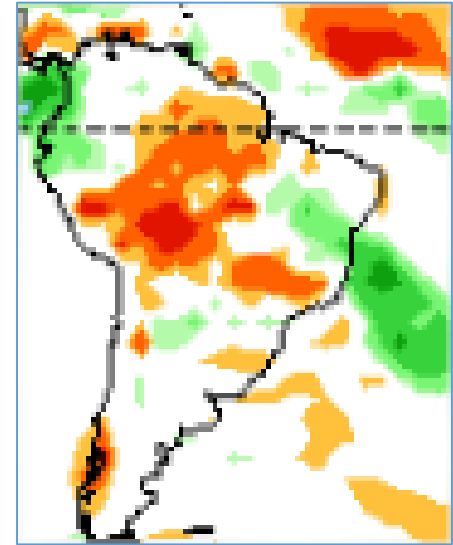
Tendência 3a e 4a semanas

Week 3 Anomalies (mm/day)

12Dec2023-18Dec2023

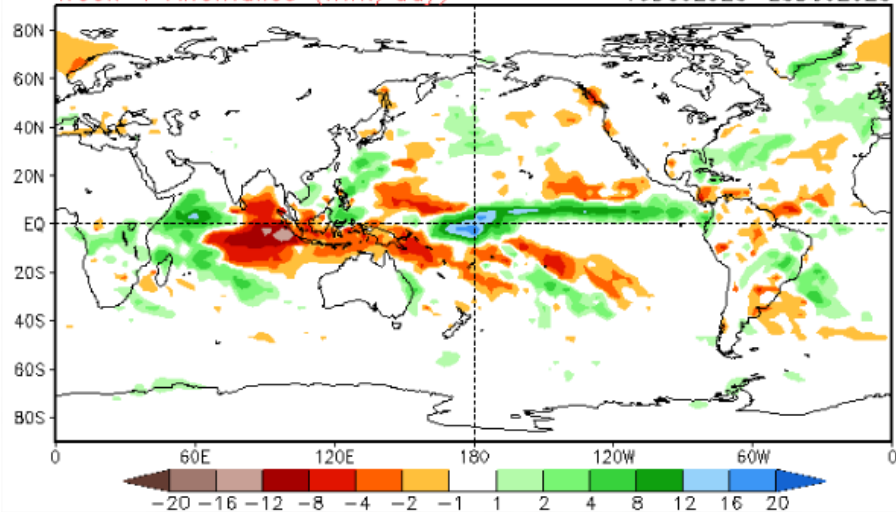


12-18/12

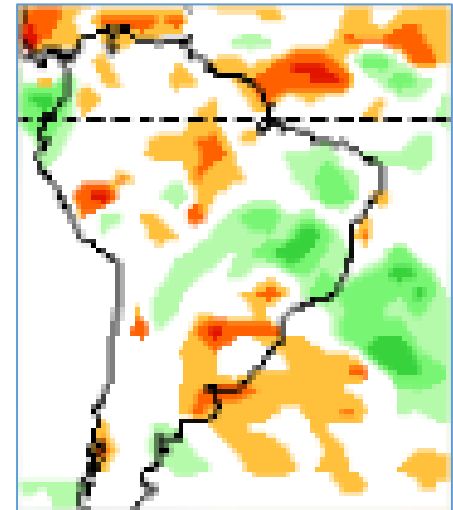


Week 4 Anomalies (mm/day)

19Dec2023-25Dec2023

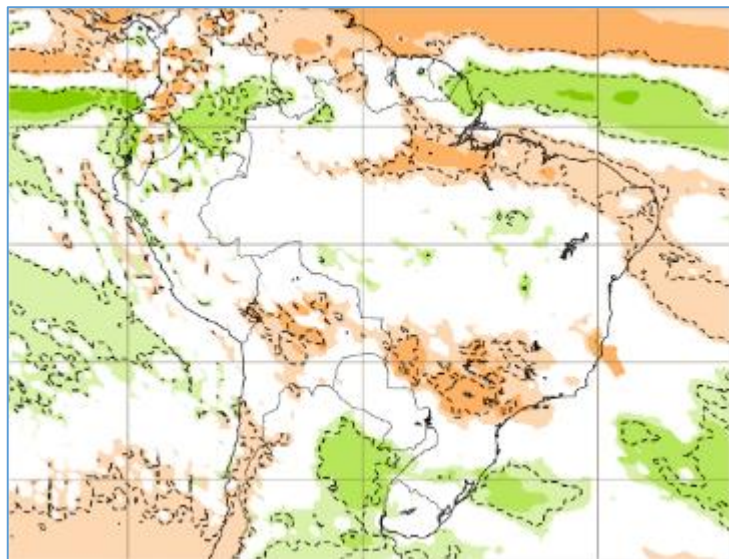


19-25/12

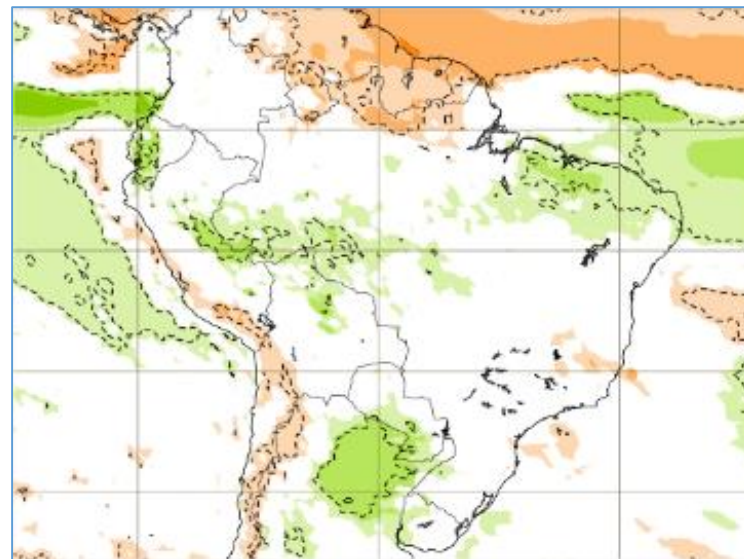


Tendência para 3ª e 4ª semanas

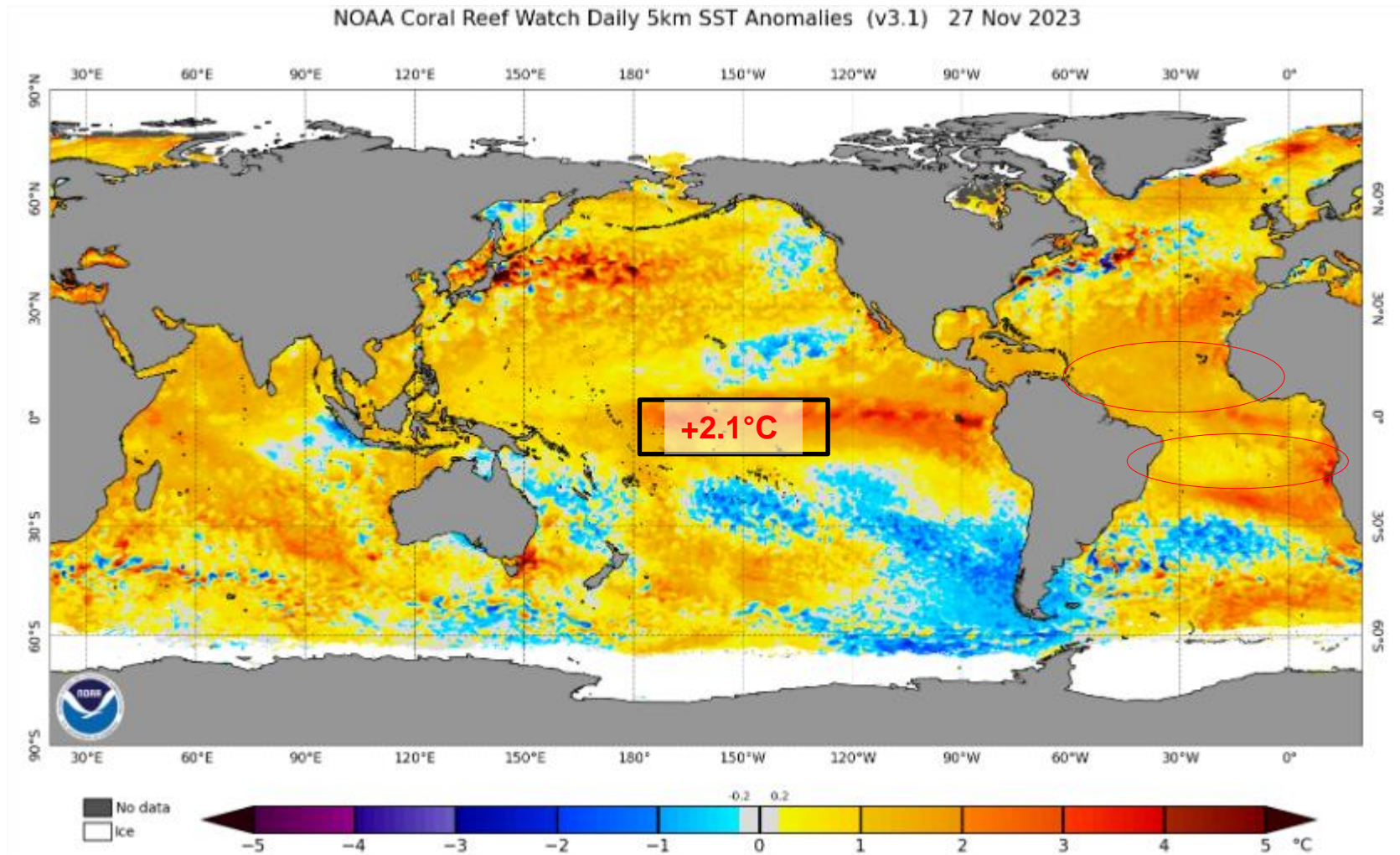
11-18 Dezembro



18-25 Dezembro

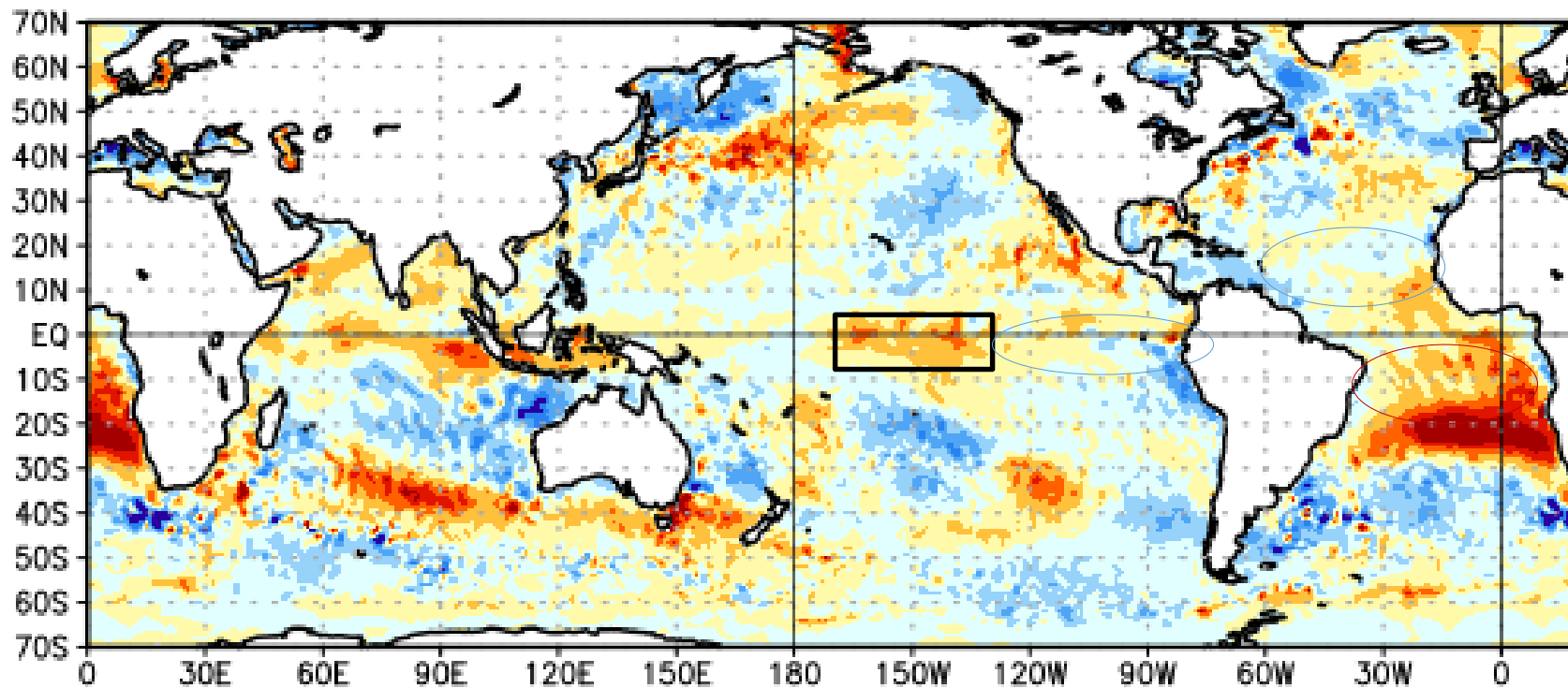


Status Atual: **El Niño**



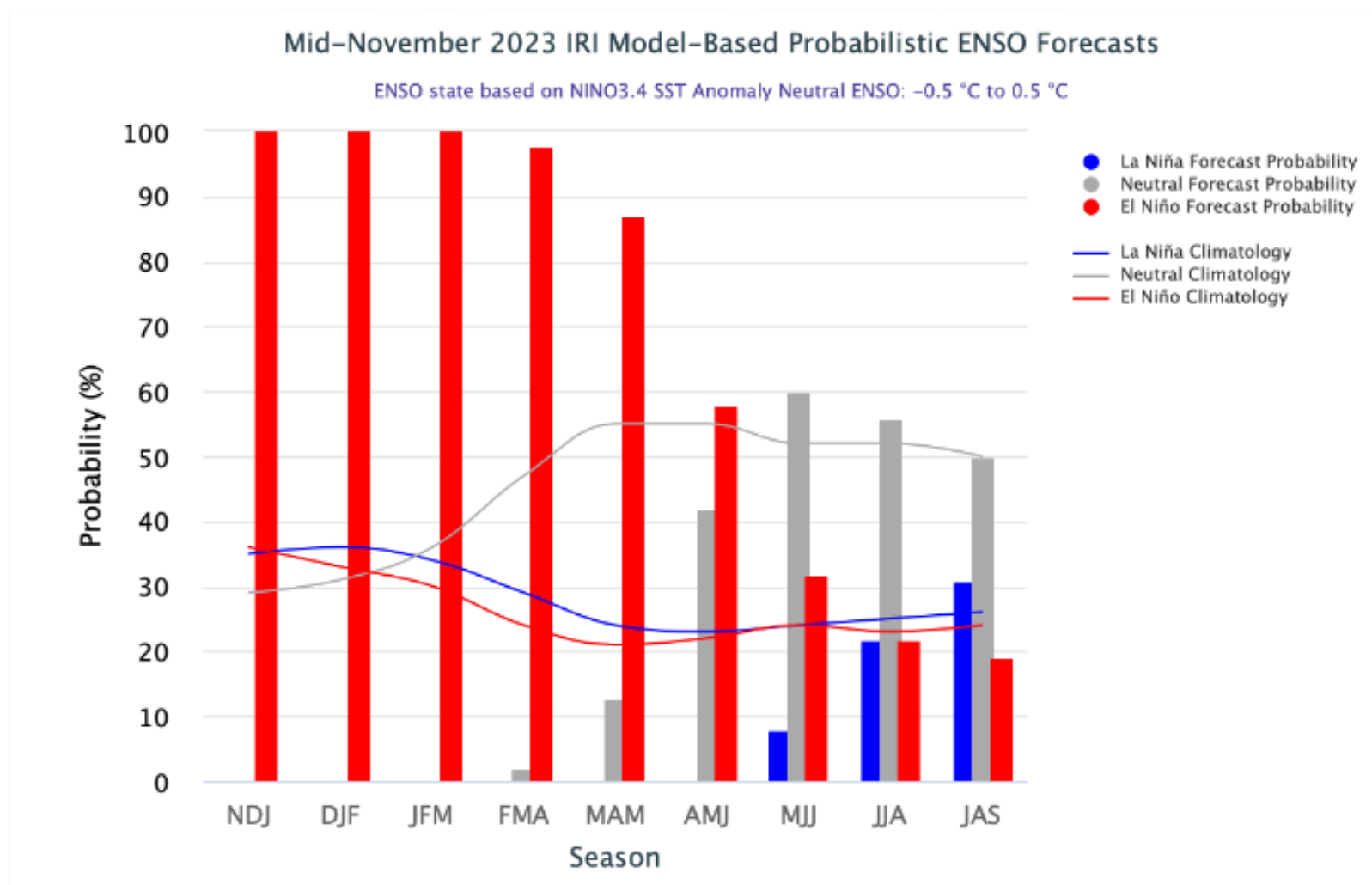
Status Atual: **El Niño**

Change in Weekly SST Anoms (°C)
22NOV2023 minus 25OCT2023





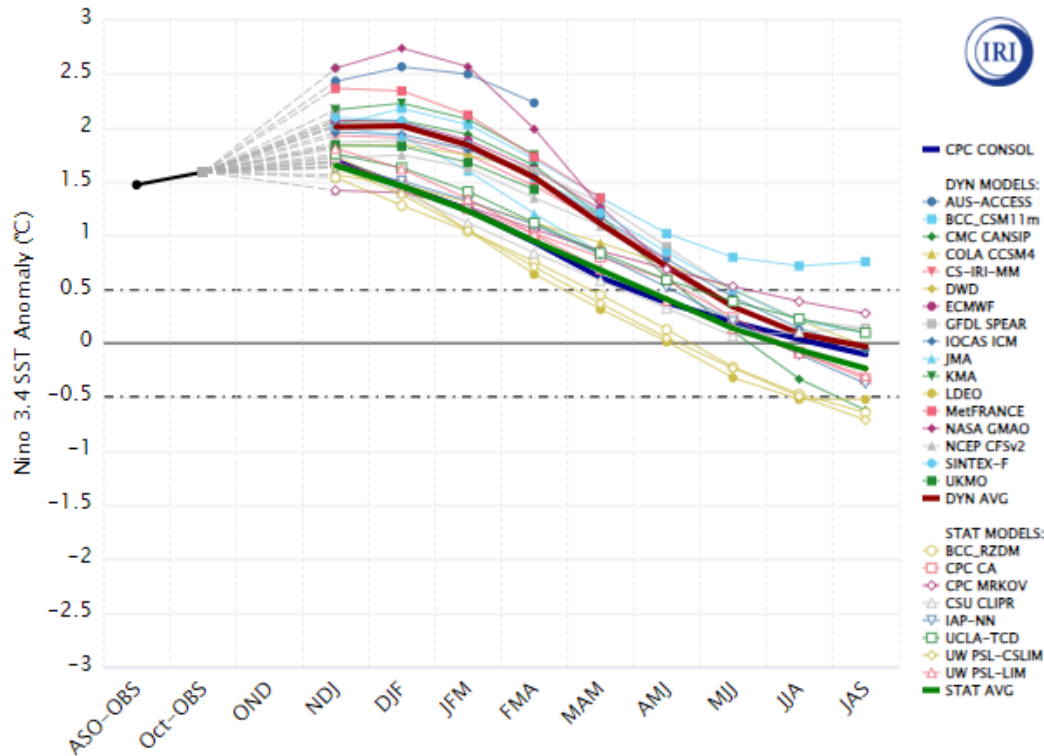
Previsão do “ENSO”



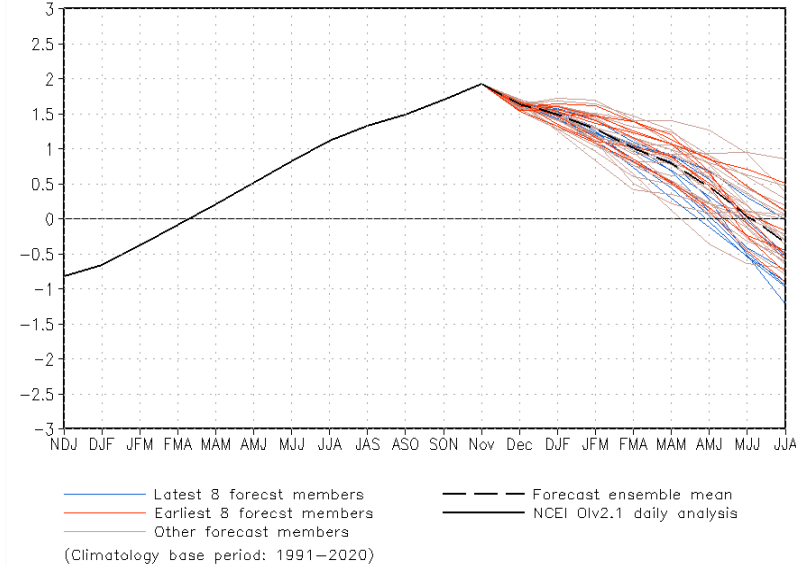


Previsão do “ENSO”

Model Predictions of ENSO from Nov 2023



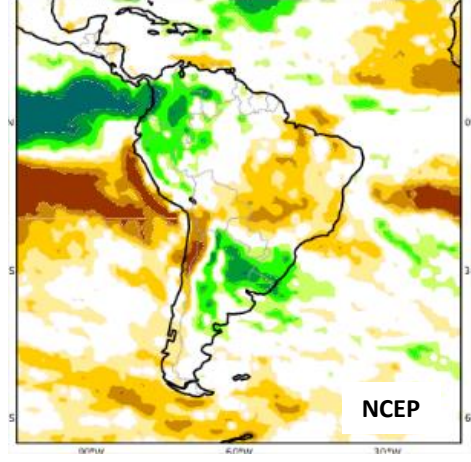
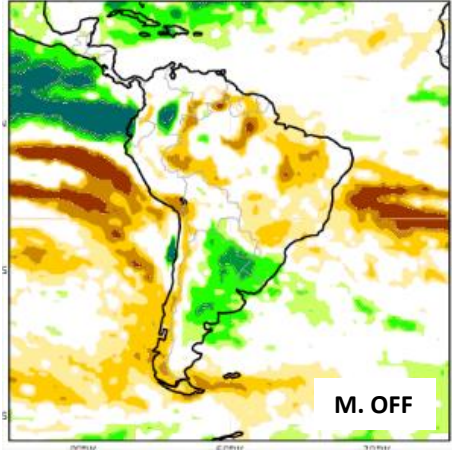
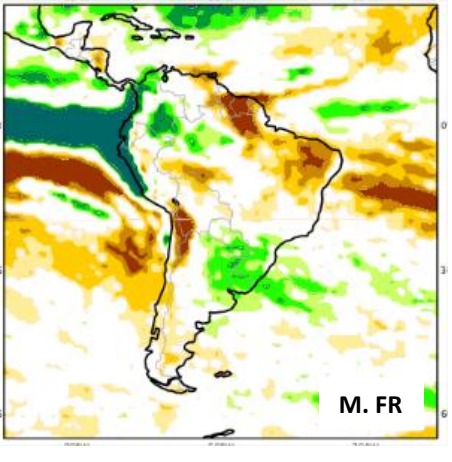
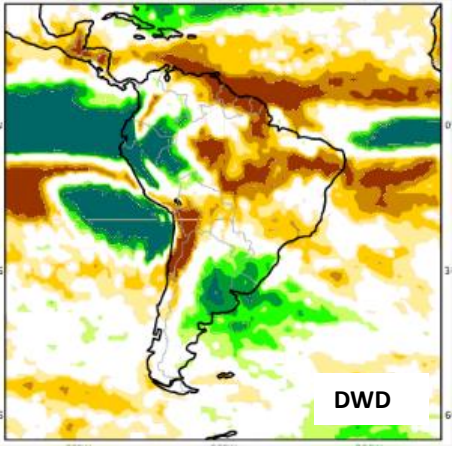
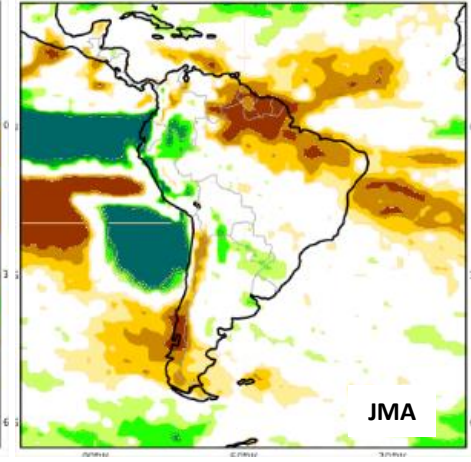
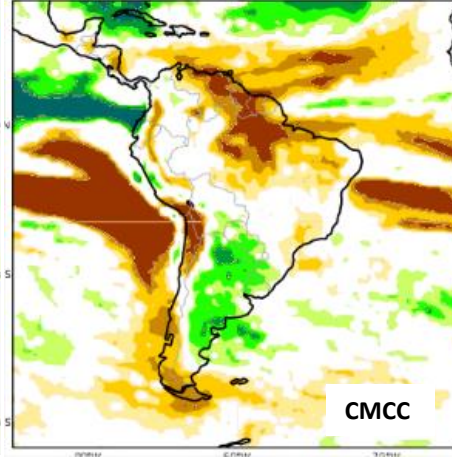
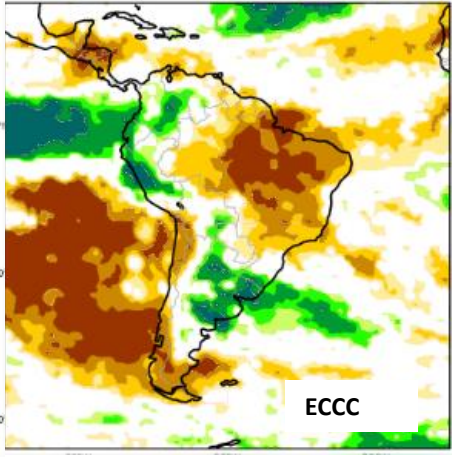
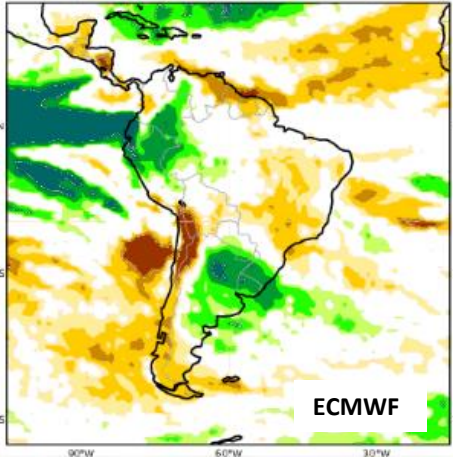
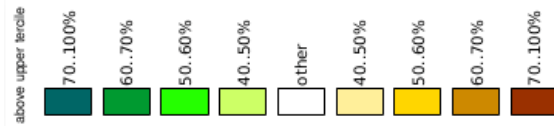
CFSv2 forecast Nino3.4 SST anomalies (K) (PDF corrected)



Atualizado 27 de novembro

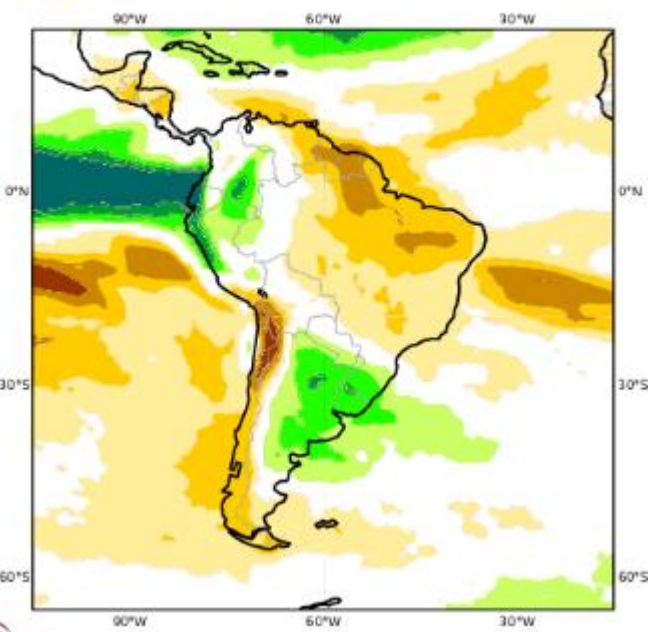
FONTE: NOAA

Previsão Sazonal de Chuva DJF

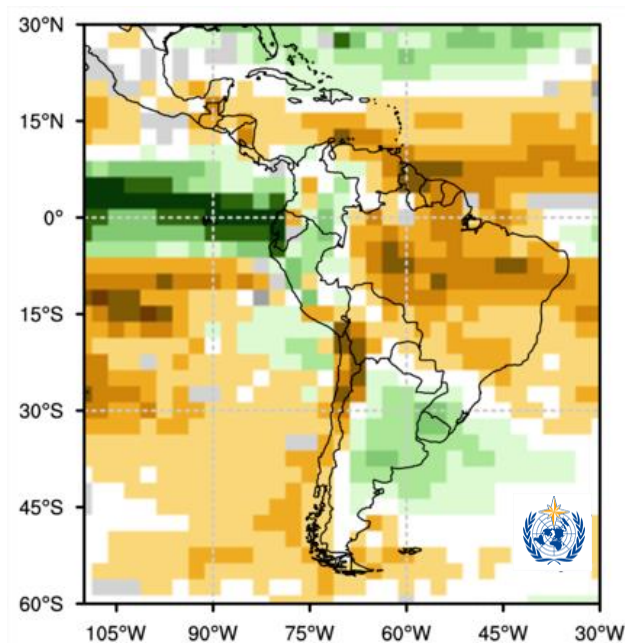


Previsão Sazonal de Chuva Multi-Modelo para DJF

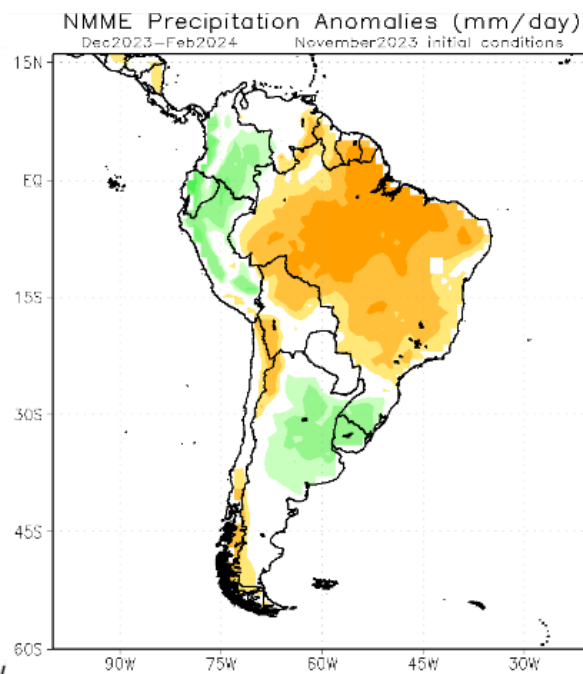
C3S multi-system seasonal forecast
Prob(most likely category of precipitation)
Nominal forecast start: 01/11/23
Unweighted mean



Modelos Europeus



Modelos da Organização
Meteorológica Mundial



Modelos Americanos