

# Monitoramento e Previsões para a Bacia do rio Tocantins

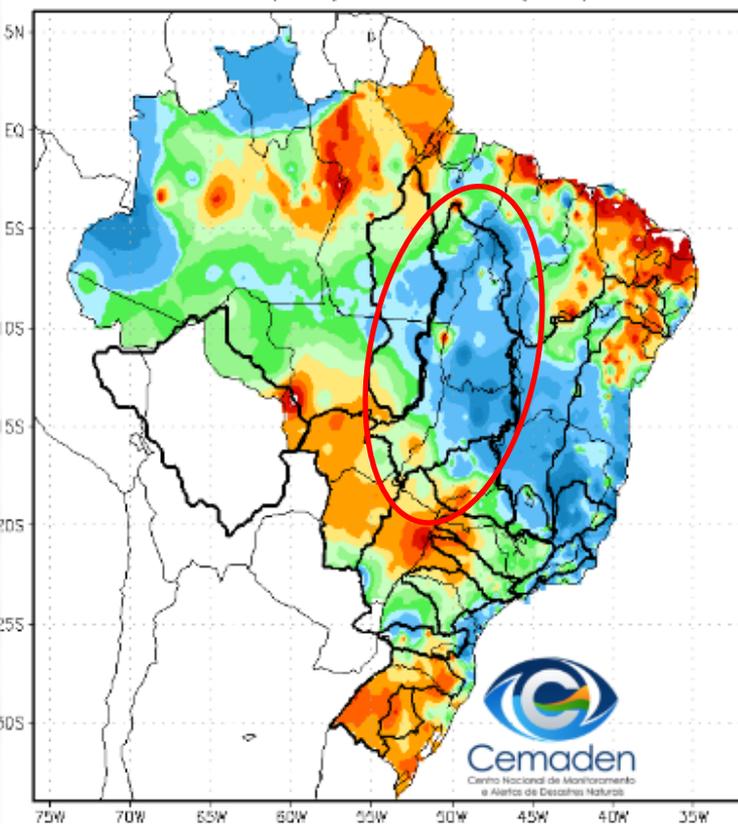


**Cemaden**  
Centro Nacional de Monitoramento  
e Alertas de Desastres Naturais

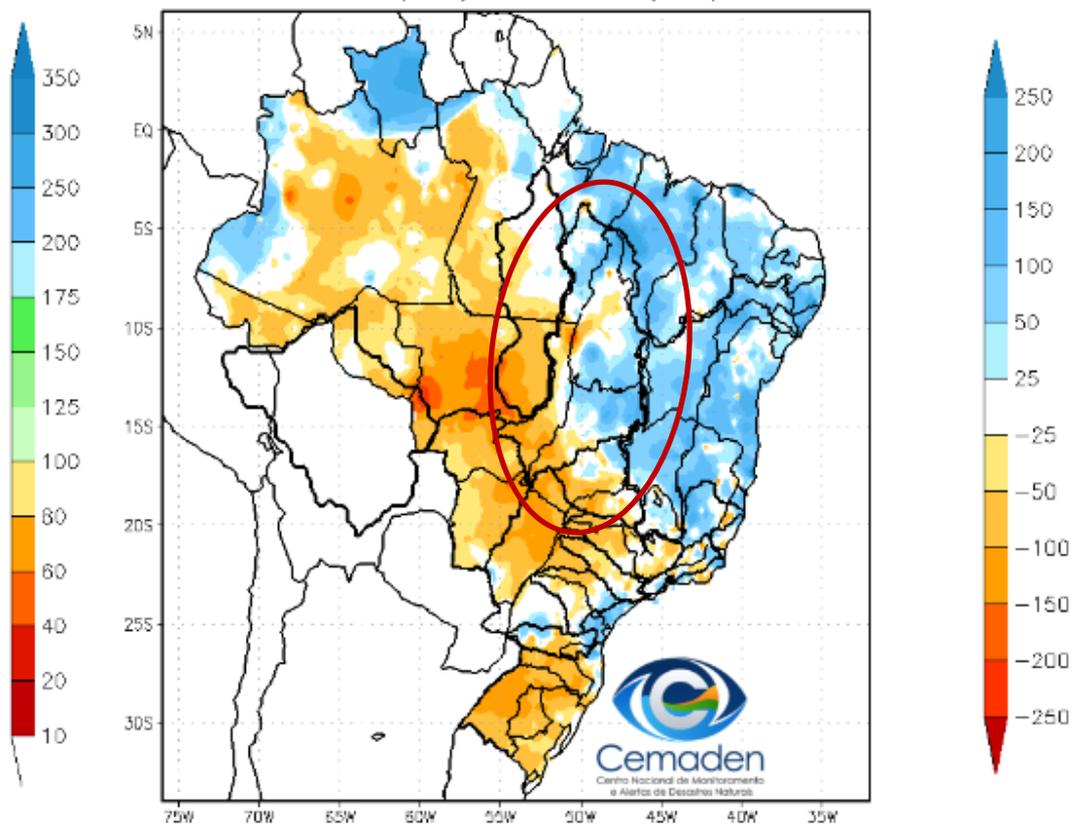
30 de Novembro de 2022

# Precipitação acumulada nos últimos 30 dias

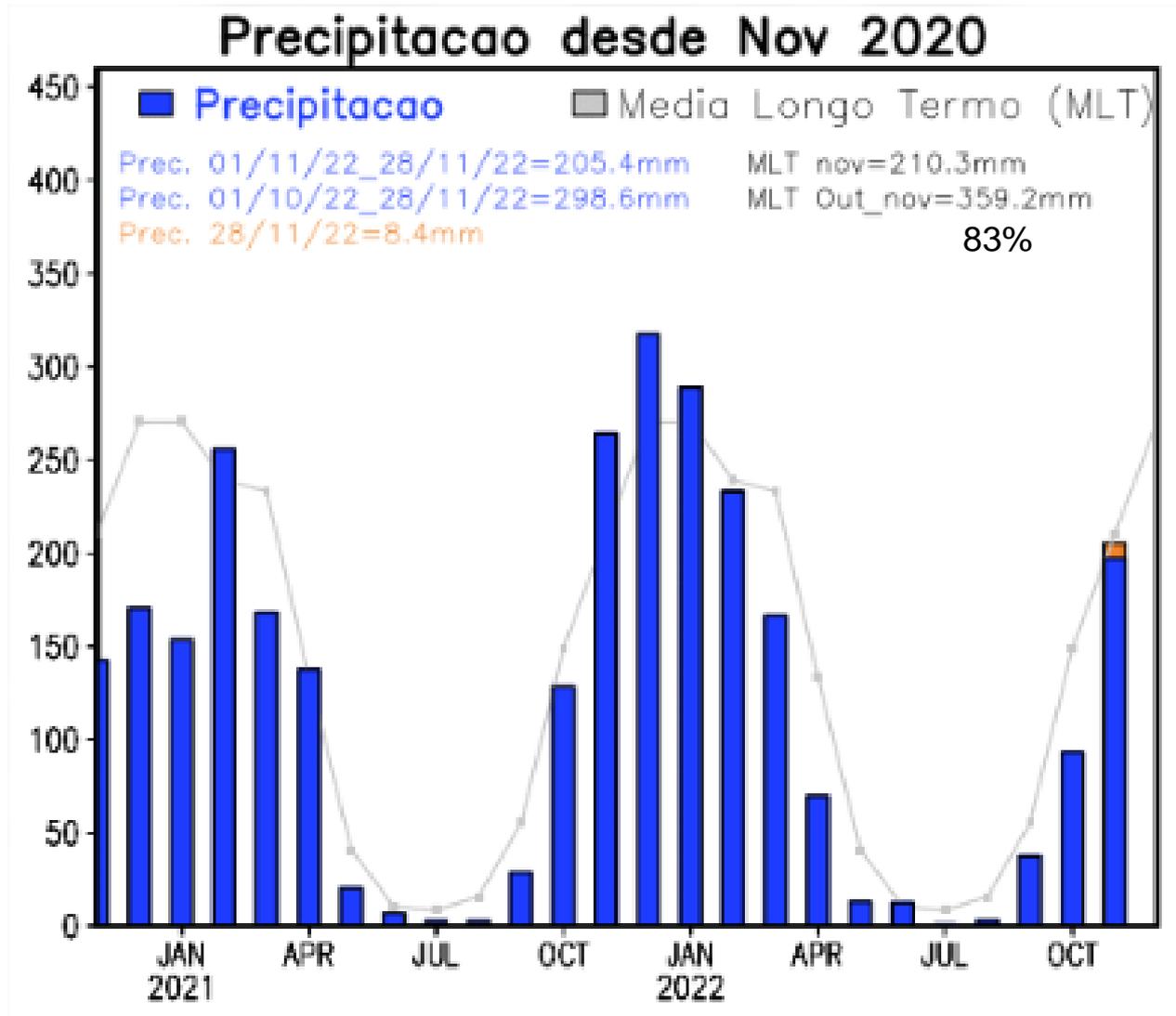
Precipitação Acumulada (mm) A.S.  
Período: 30/10/2022 a 29/11/2022



Anomalia de Precipitação (mm) A.S.  
Período: 30/10/2022 a 29/11/2022

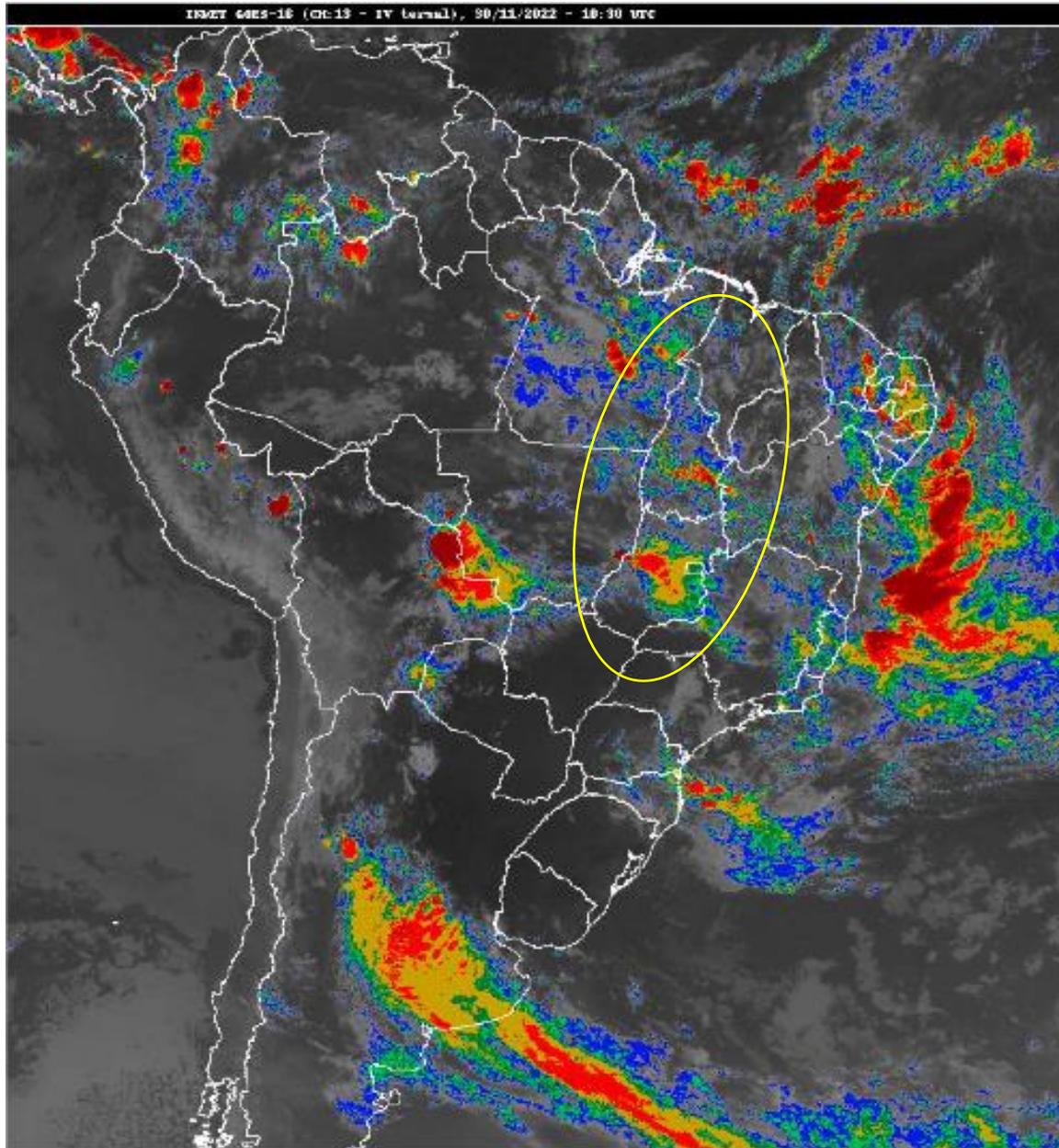


# Evolução da Precipitação

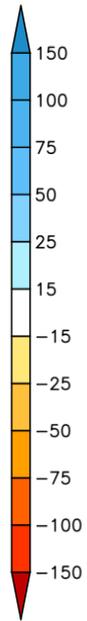
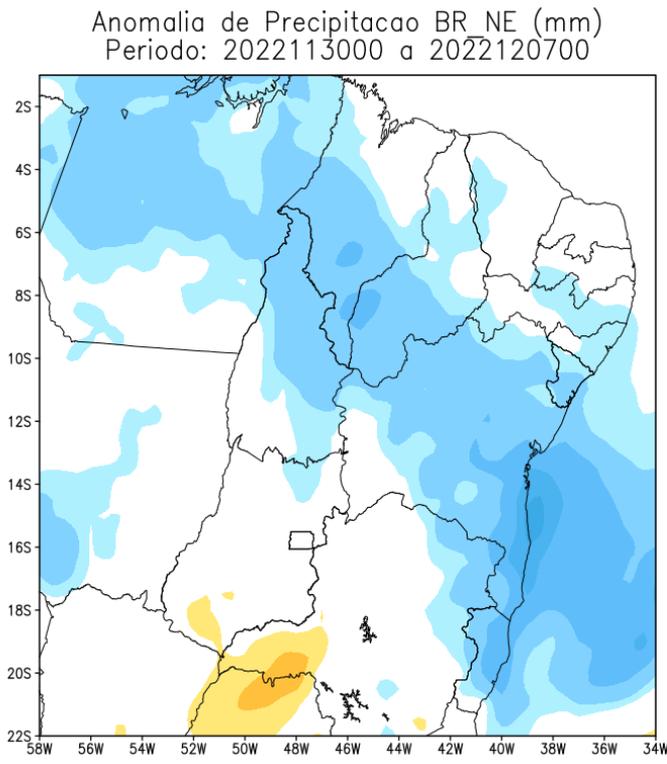
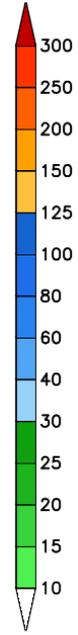
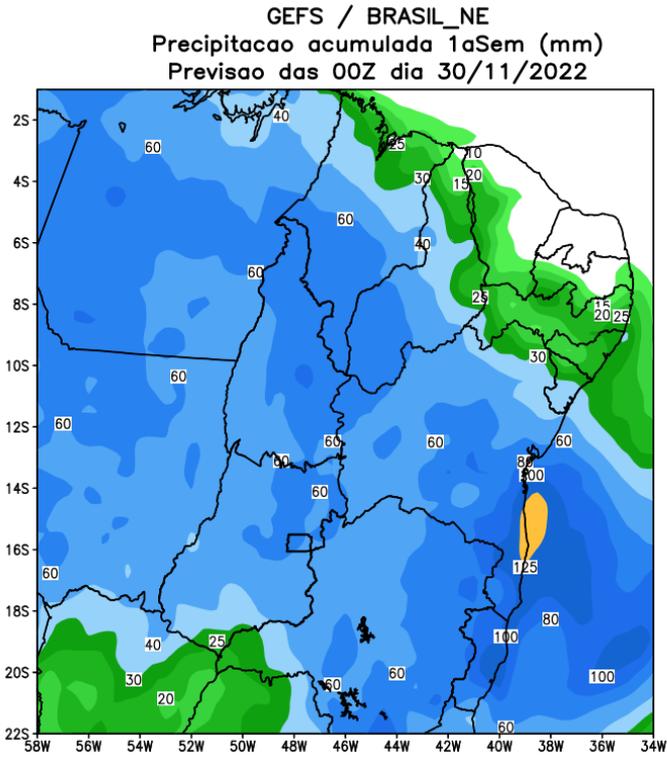


FONTE:  
INPE

# Situação meteorológica atual



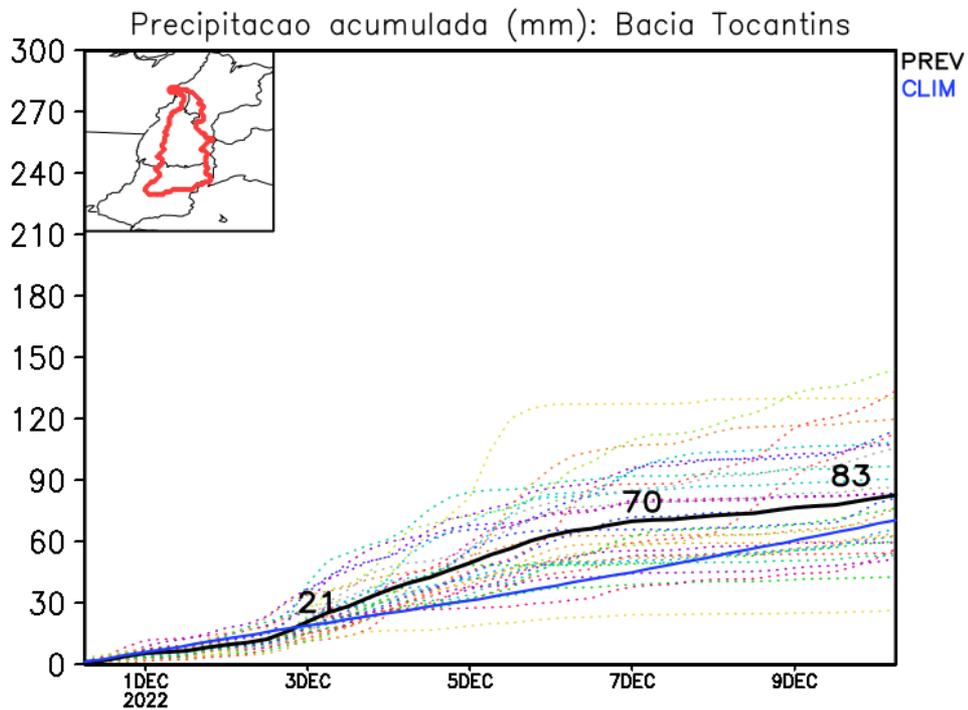
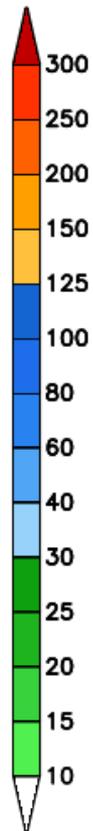
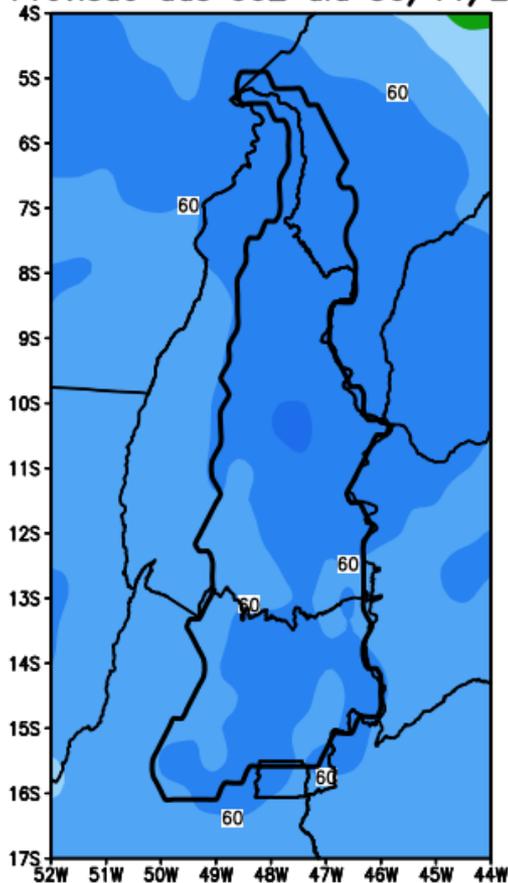
# Previsão de chuva próximos 7 dias



Fonte: GFS/NOAA

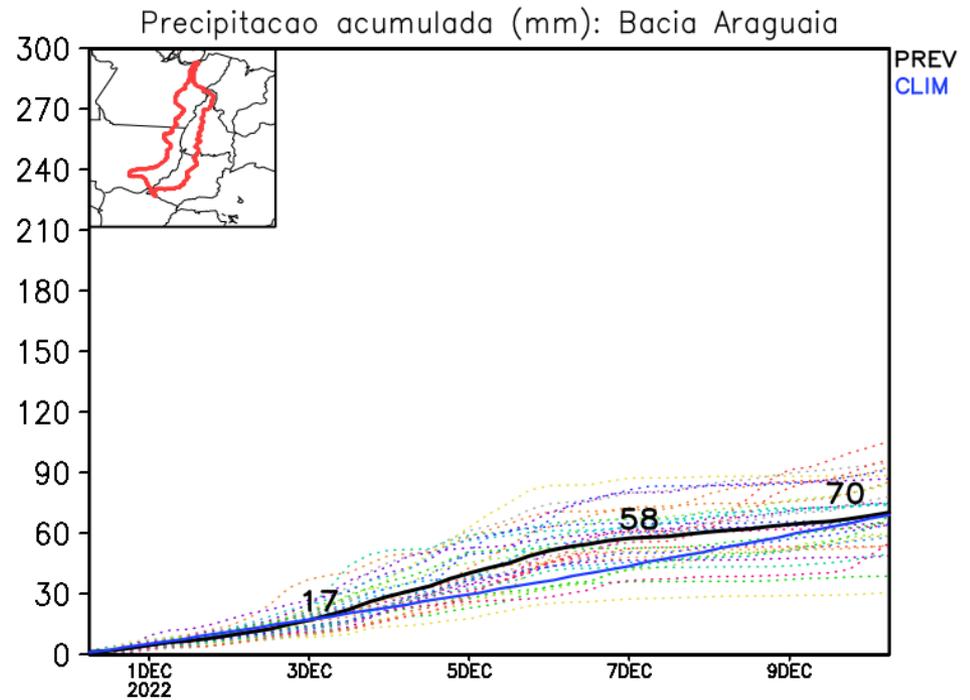
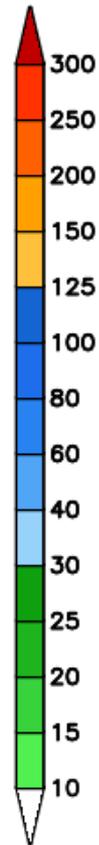
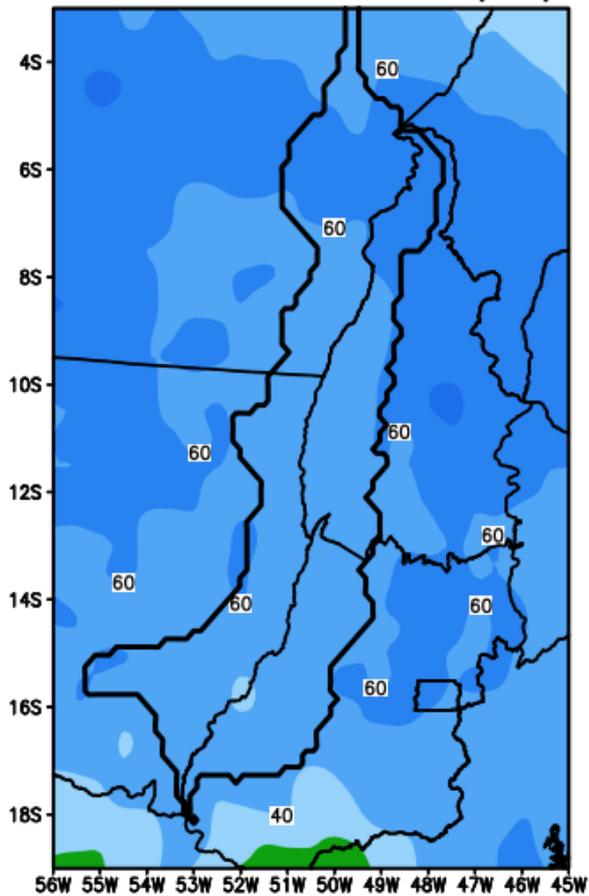
# Previsão Bacia Rio Tocantins

GEFS / Bacia Tocantins  
Precipitacao acumulada em 7 dias (mm)  
Previsao das 00Z dia 30/11/2022



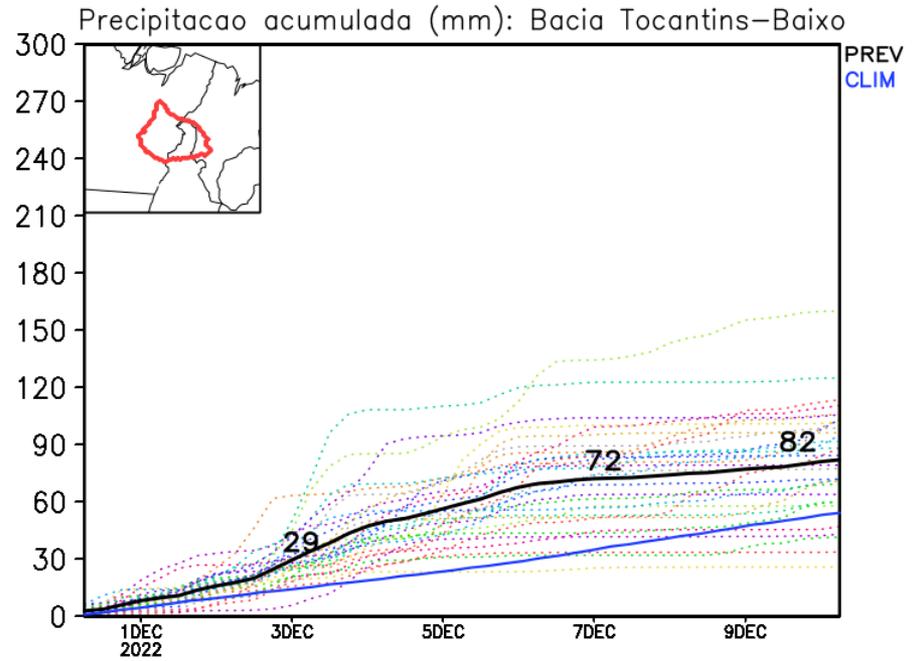
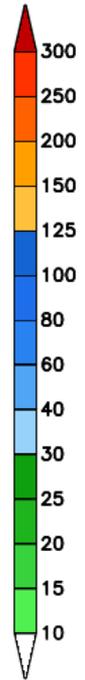
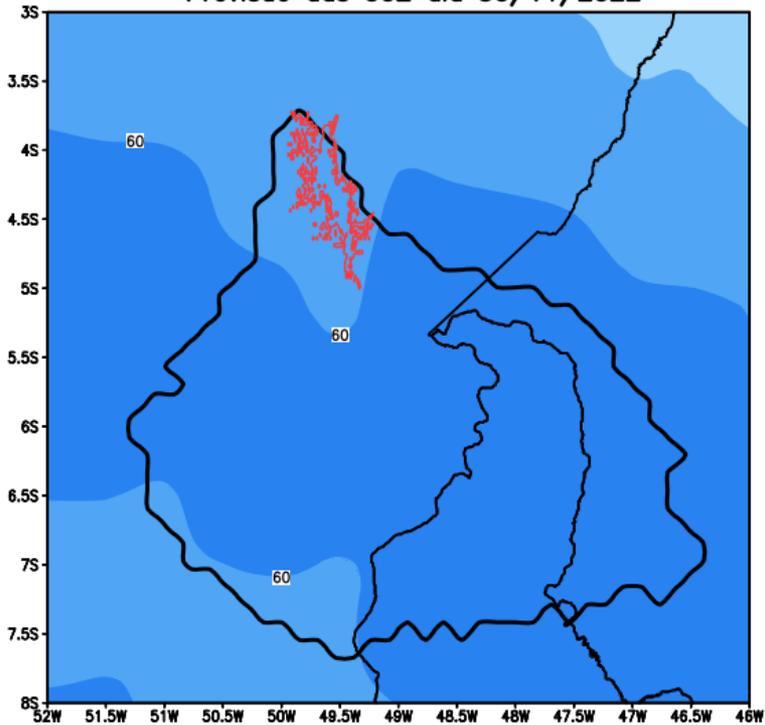
# Previsão Bacia Rio Araguaia

GEFS / Bacia do Rio Araguaia  
Precipitacao acumulada em 7 dias (mm)  
Previsao das 00Z dia 30/11/2022



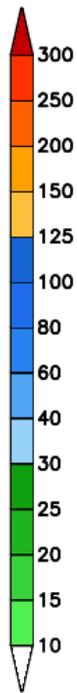
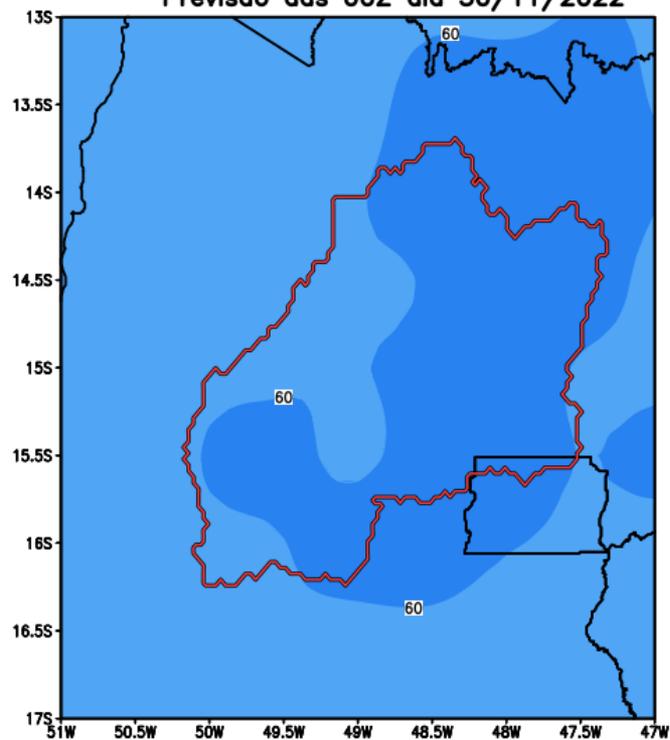
# Previsão Bacia Tocantins (Baixo)

GEFS / Bacia Baixo Tocantins  
Precipitação acumulada em 7 dias (mm)  
Previsão das 00Z dia 30/11/2022

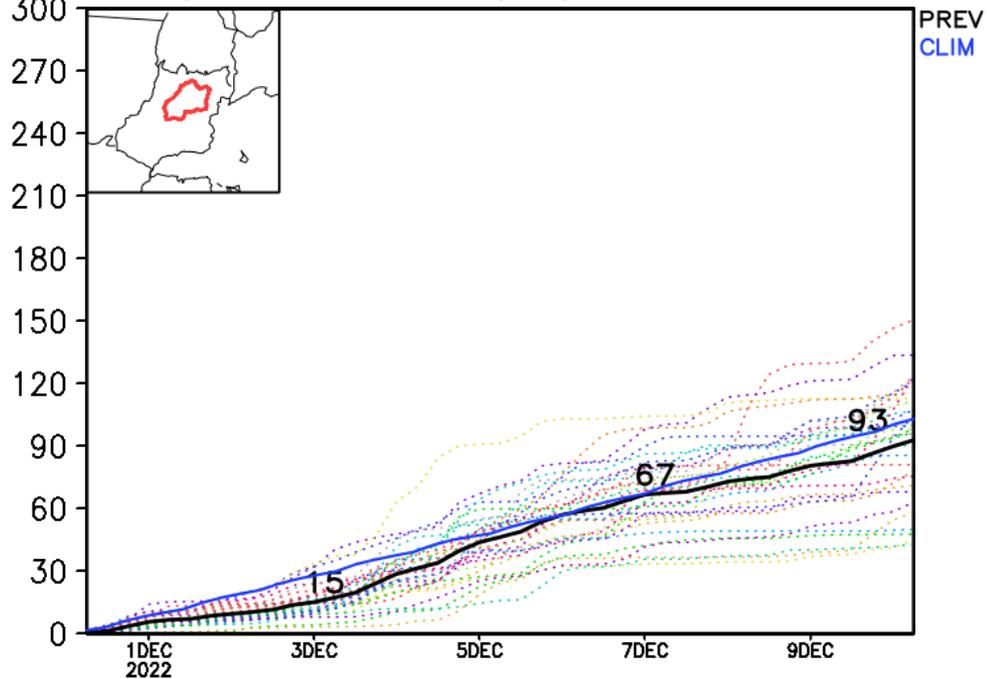


# Previsão Bacia Serra da Mesa

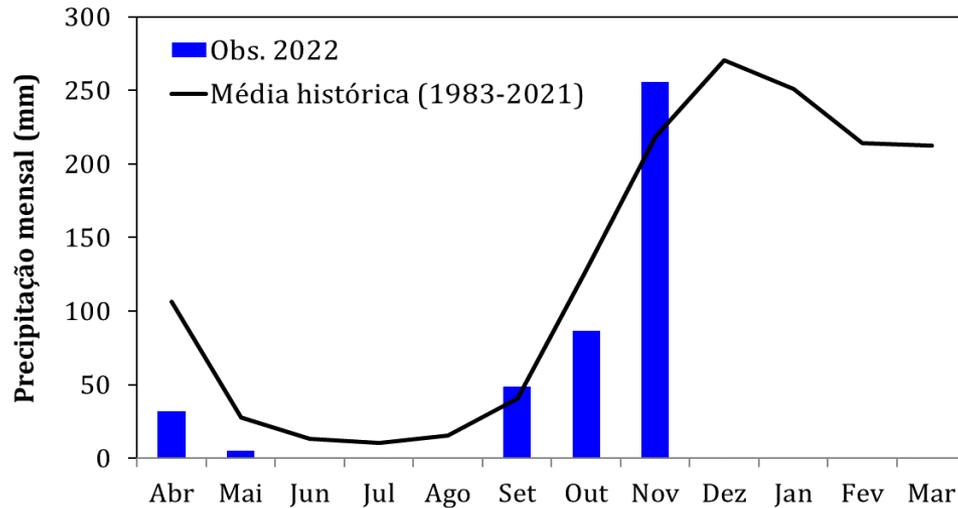
GEFS / Bacia Serra da Mesa  
Precipitacao acumulada em 7 dias (mm)  
Previsao das 00Z dia 30/11/2022



Precipitacao acumulada (mm): Bacia SerradaMesa



# Monitoramento UHE Serra da Mesa



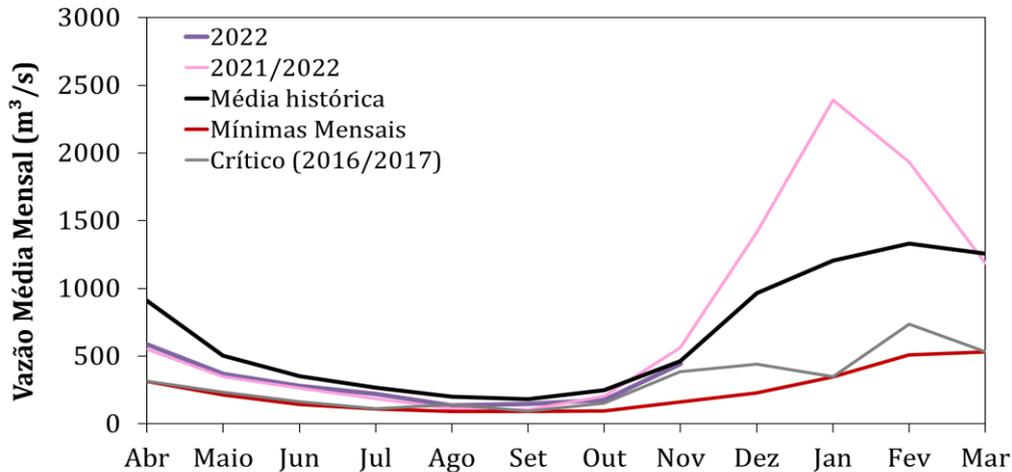
## Precipitação

**Estação Chuvosa - Out a Abr – 1401 mm**  
2021/2022: 1473 mm (**105% da média histórica**)  
2022/2023\*: 342 mm (**24% da média histórica**)

**Estação Seca - Maio a Set – 107 mm**  
2021: 28 mm (**26% da média histórica**)  
2022: 54 mm (**50% da média histórica**)

**Nov/2022\*: 256 mm (117% da média histórica)**

\*Até 28/11/2022



## Vazão

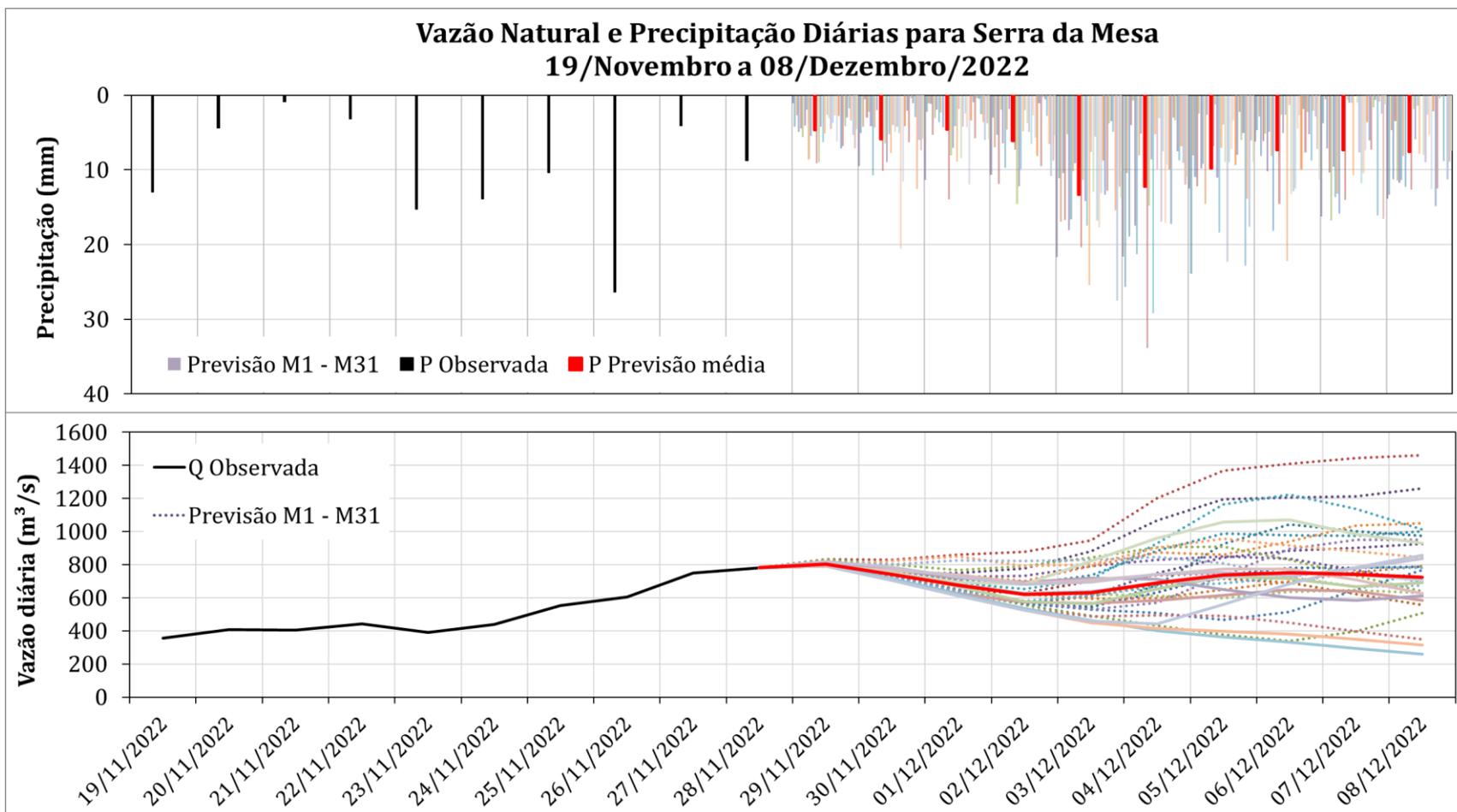
**Estação Chuvosa - Out a Abr – 912 m³/s**  
2021/2022: 1184 m³/s (**130% da MLT**)  
2022/2023\*: 310 m³/s (**34% da MLT**)

**Estação Seca - Maio a Set – 302 m³/s**  
2021: 203 m³/s (**67% da MLT**)  
2022: 231 m³/s (**77% da MLT**)

**Nov/2022\*: 443 m³/s (96% da MLT)**

\*Até 28/11/2022

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



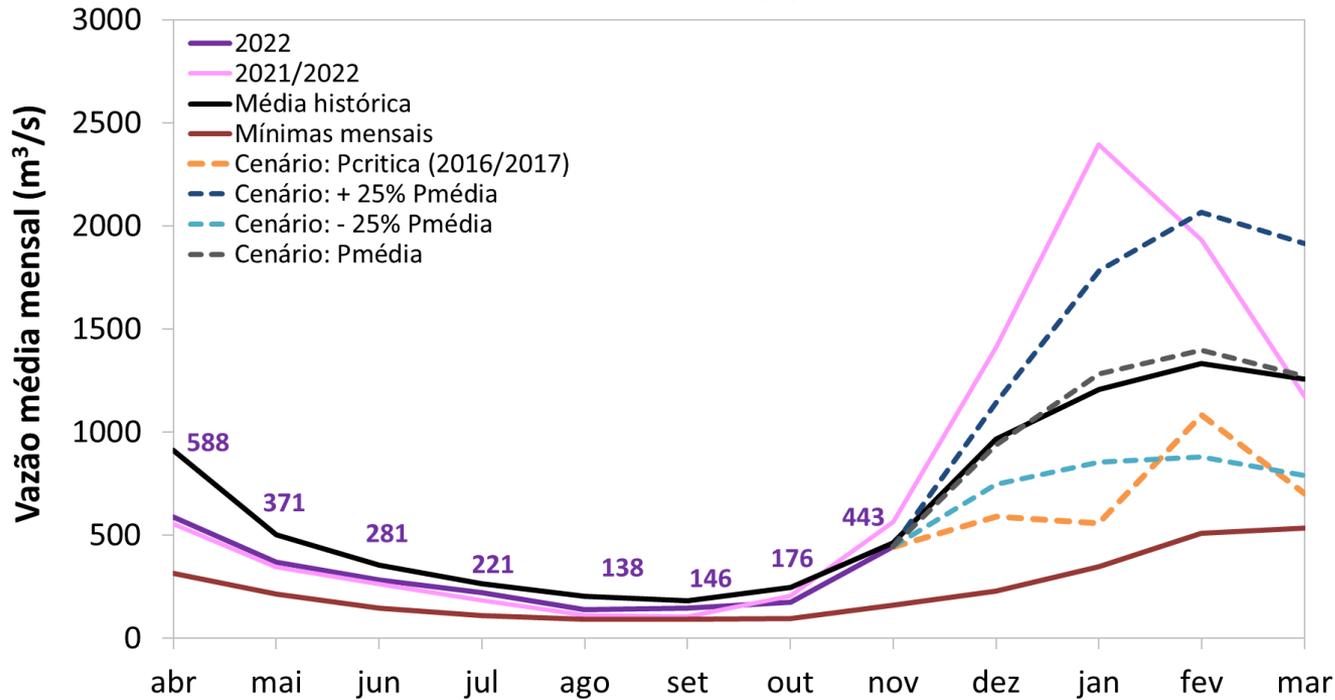
Dados observados de precipitação (barras pretas) de 19 a 28/11 e previsão (barras coloridas) para o período de 29/11 a 08/12/22.  
Dados observados de vazão (linha preta) de 19 a 28/11 e previsão (linhas pontilhadas coloridas) para o período de **29/11 a 08/12/22**.

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

A linha vermelha representa a média dos 31 membros de previsão de vazão do modelo PDM-CEMADEN  
**A média de vazão diária prevista para os próximos 10 dias: 712 m³/s**

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

UHE Serra da Mesa - Rio Tocantins  
 Histórico e simulação de vazão natural média mensal  
 Previsão: 29/Nov a 08/Dez - Projeções: 09/Dez/22 a 31/Mar/23



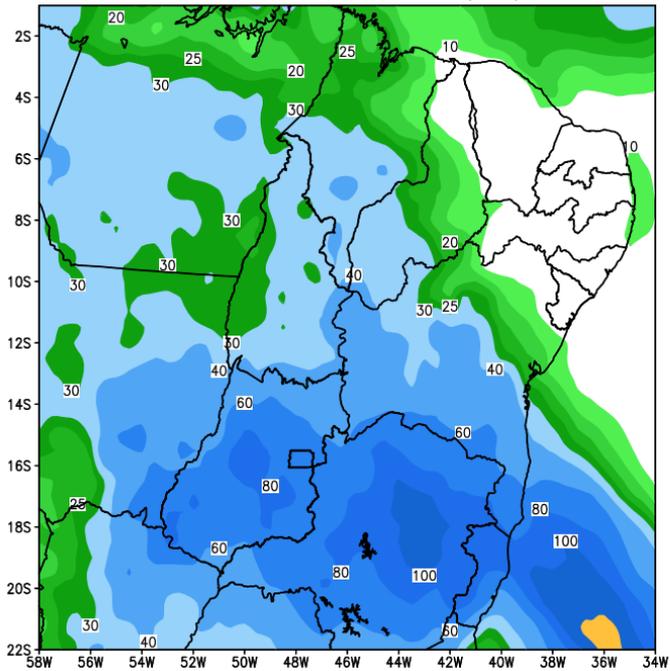
**DEZ-MAR**  
**MLT: 1190 m³/s**

Vazão	% MLT
1726 m³/s	145%
1223 m³/s	103%
816 m³/s	69%
733 m³/s	62%

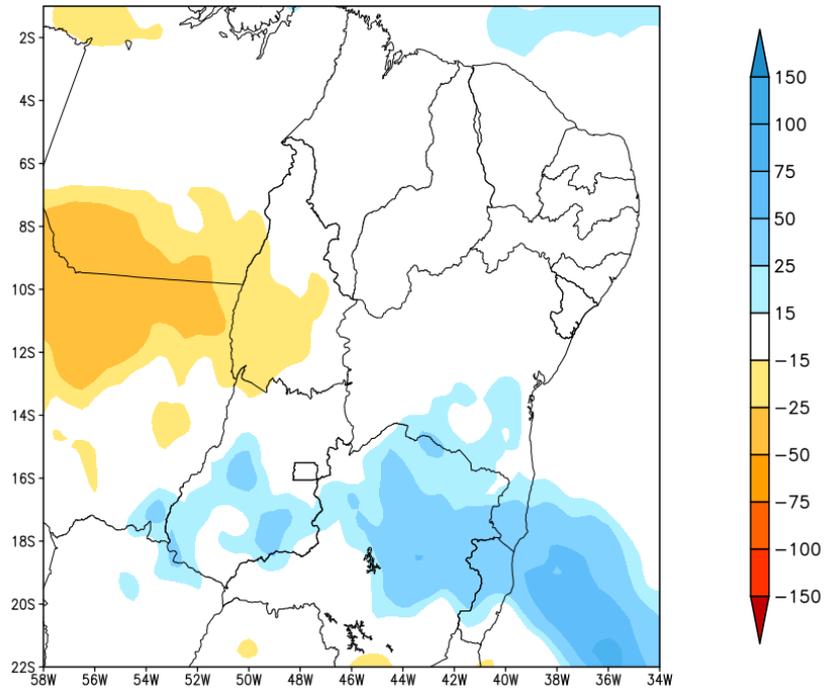
Média de Longo Termo (MLT): 1983-2021

# Tendência para a 2a Semana

GEFS / BRASIL\_NE  
Precipitacao acumulada 2aSem (mm)  
Previsao das 00Z dia 30/11/2022

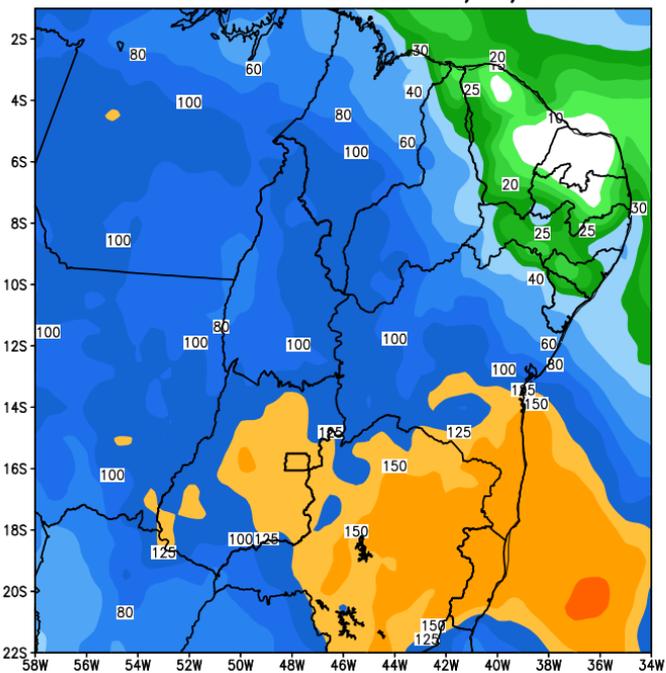


Anomalia de Precipitacao BR\_NE (mm)  
Periodo: 2022120800 a 2022121400

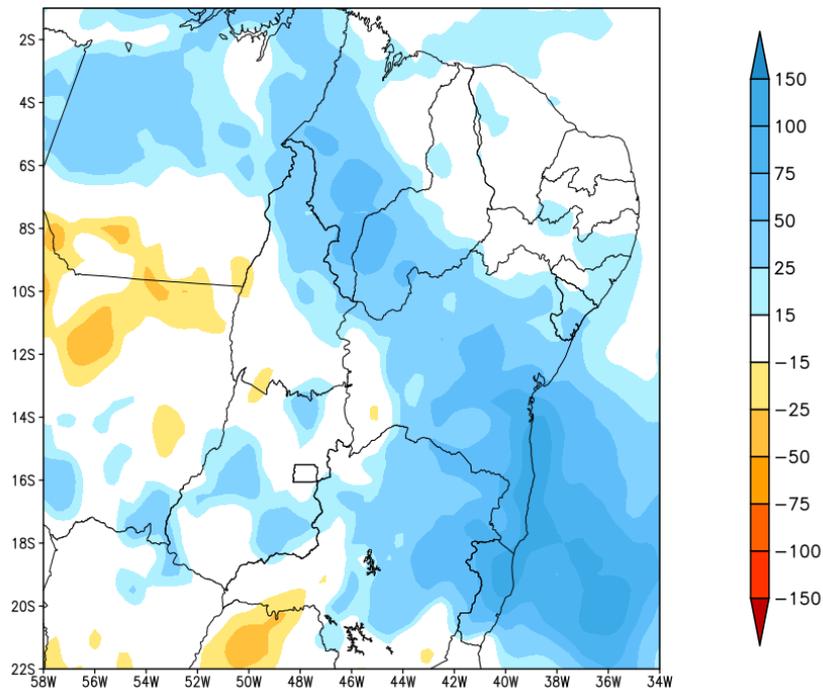


# Tendência para as próximas duas semanas

GEFS / BRASIL\_NE  
Precipitacao acumulada 14 dias (mm)  
Previsao das 00Z dia 30/11/2022

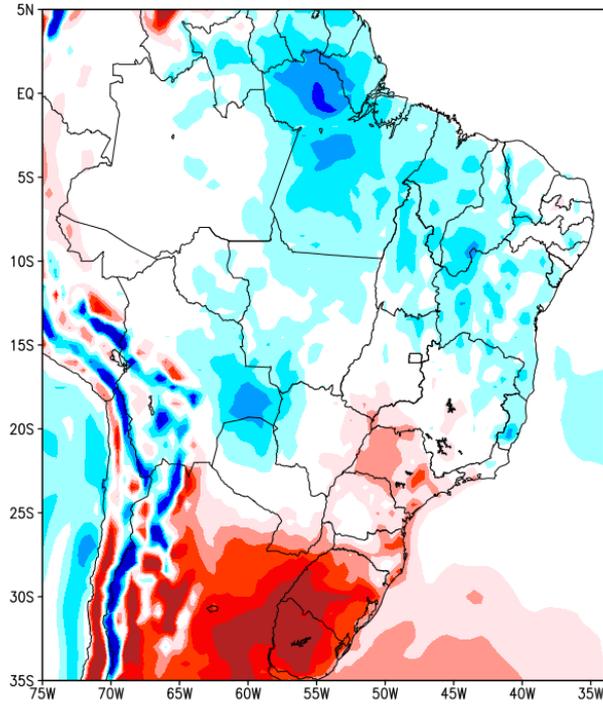


Anomalia de Precipitacao BR NE (mm)  
Periodo: 2022113000 a 2022121400

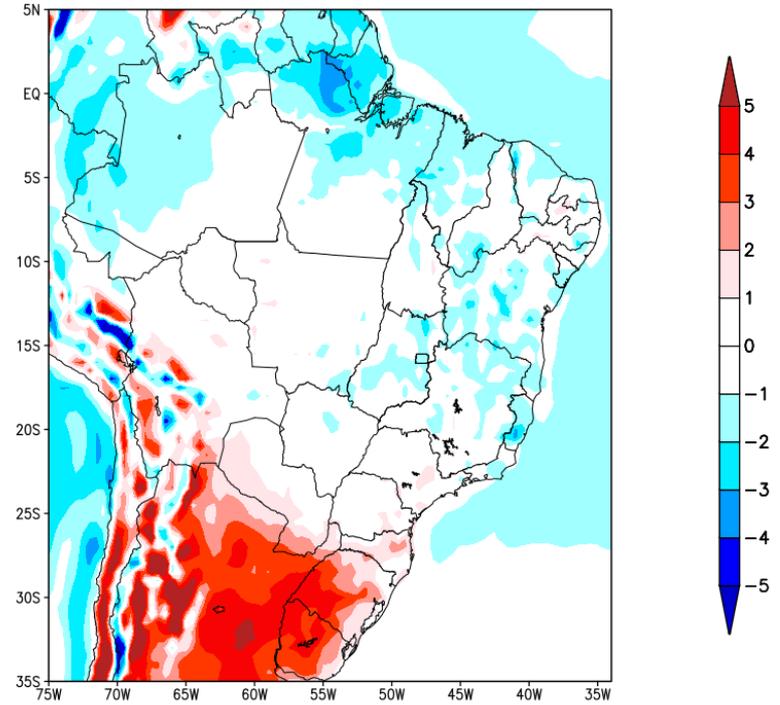


# Previsão de Temperatura

Anomalia de Temperatura BR (C)  
Período: 2022113000 a 2022120700



Anomalia de Temperatura BR (C)  
Período: 2022120800 a 2022121400

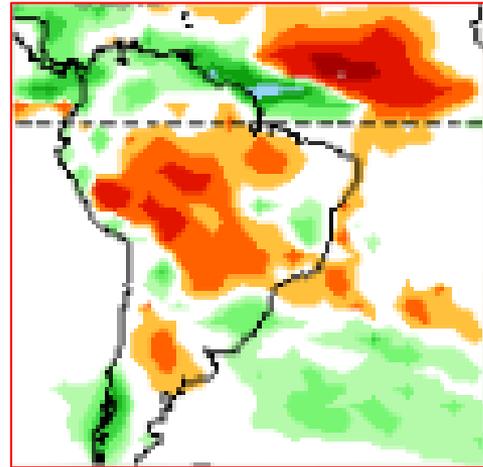
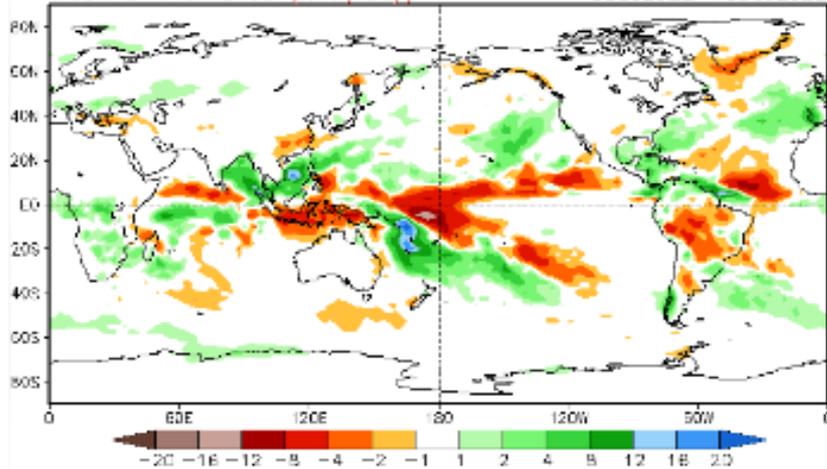


# Tendência 3a e 4a semanas

10 Member Ensemble Mean Forecast from 28Nov2022

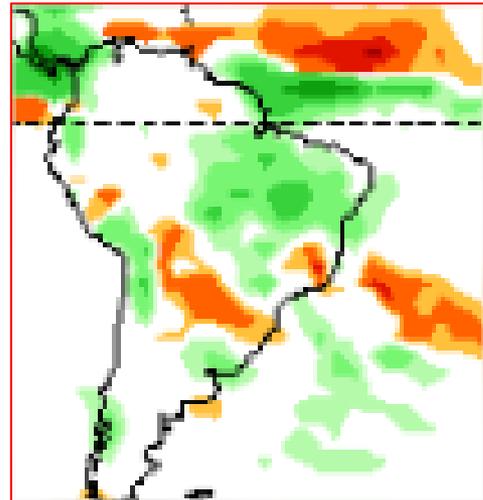
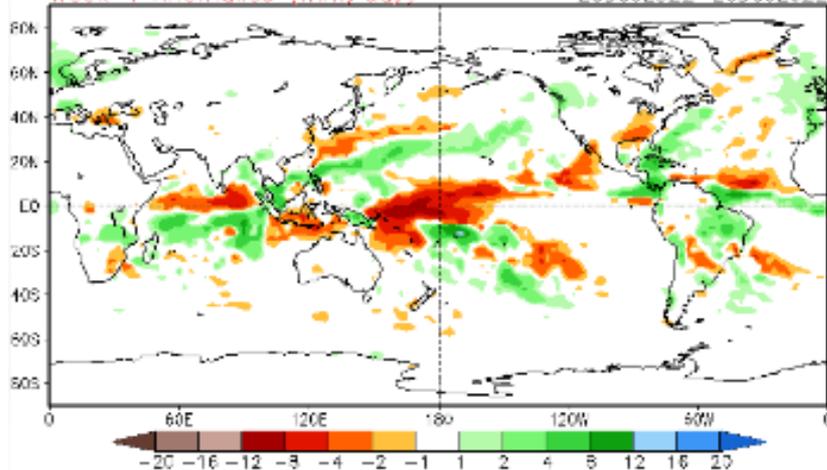
Week 3 Anomalies (mm/day)

13Dec2022-19Dec2022



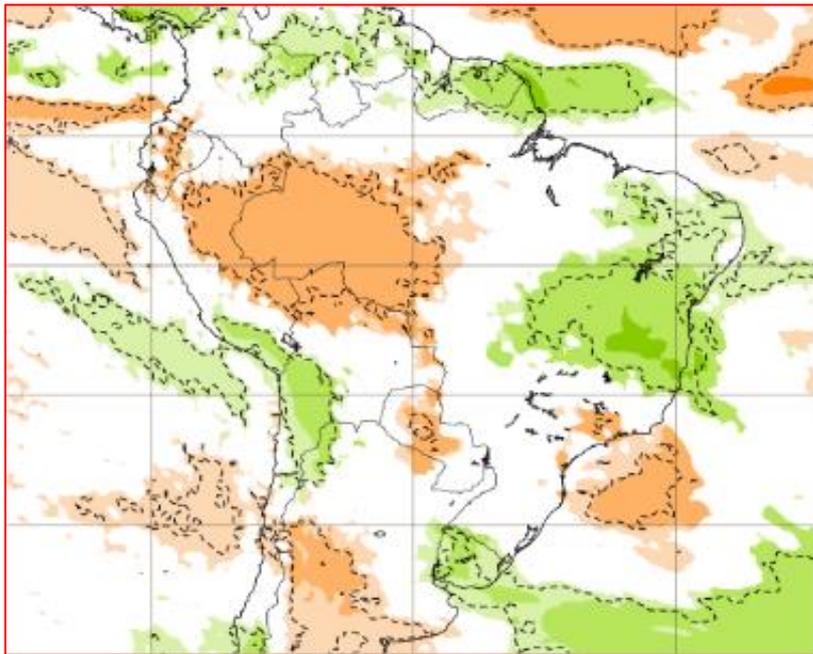
Week 4 Anomalies (mm/day)

20Dec2022-26Dec2022

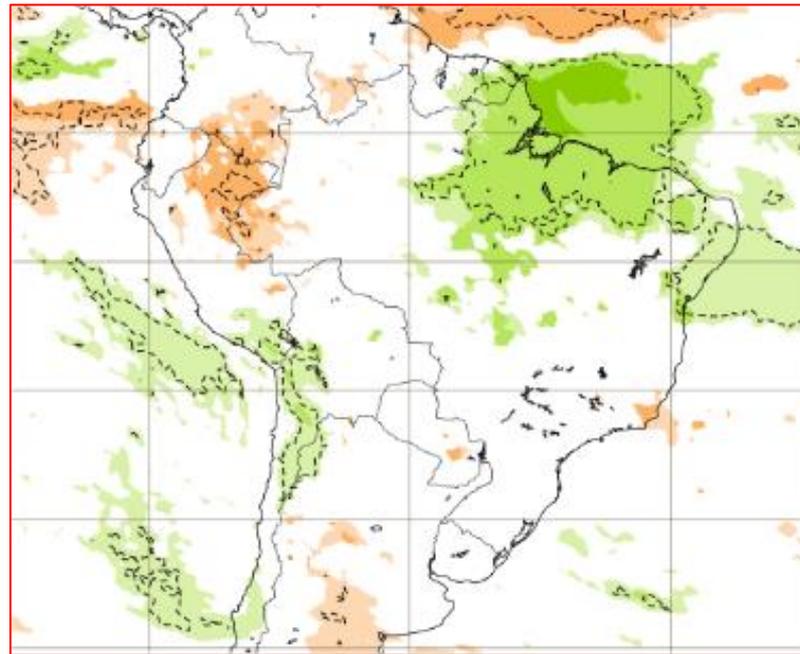


# Tendência para 3ª e 4ª semanas

12-19/12

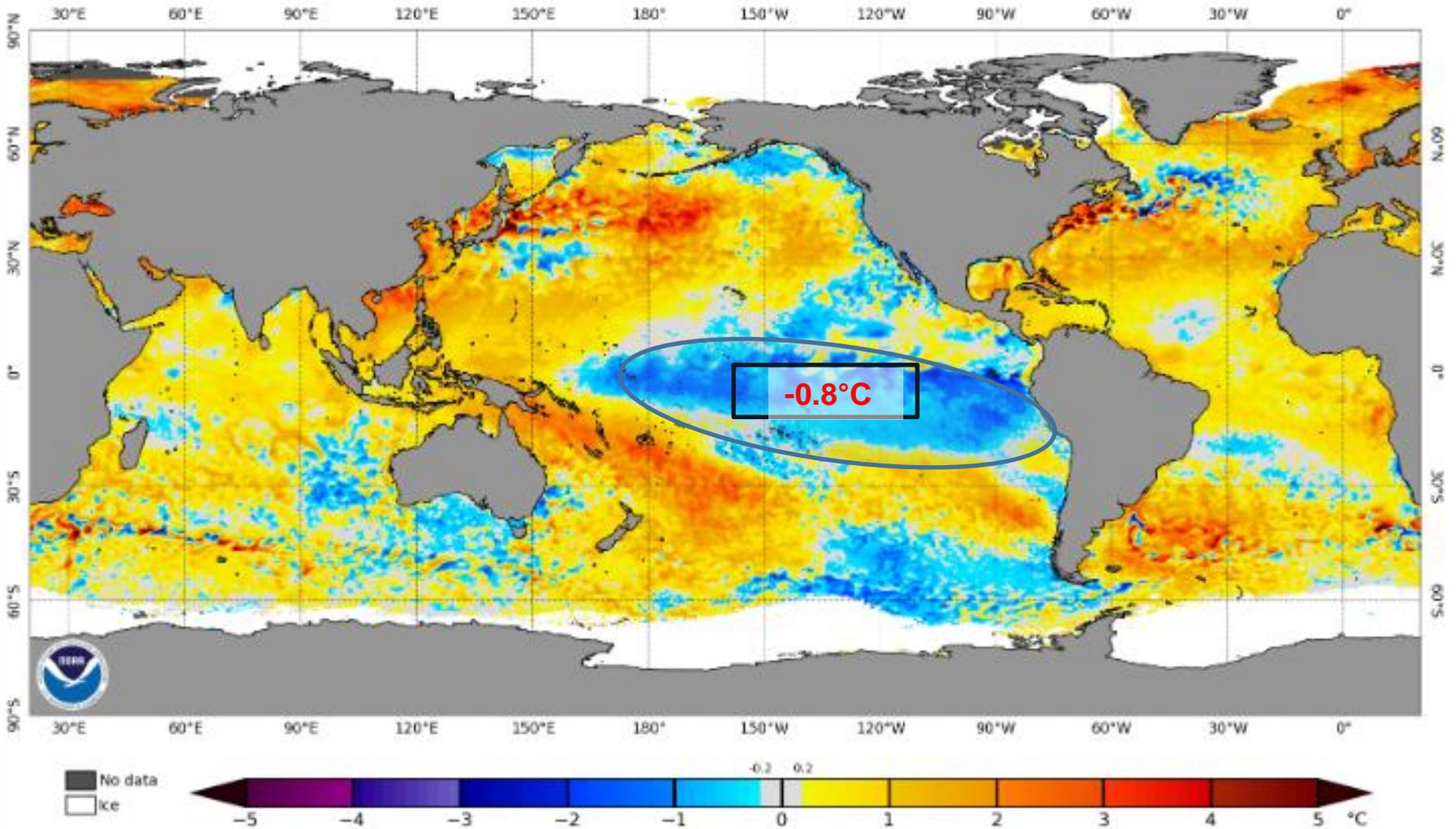


19-26/12

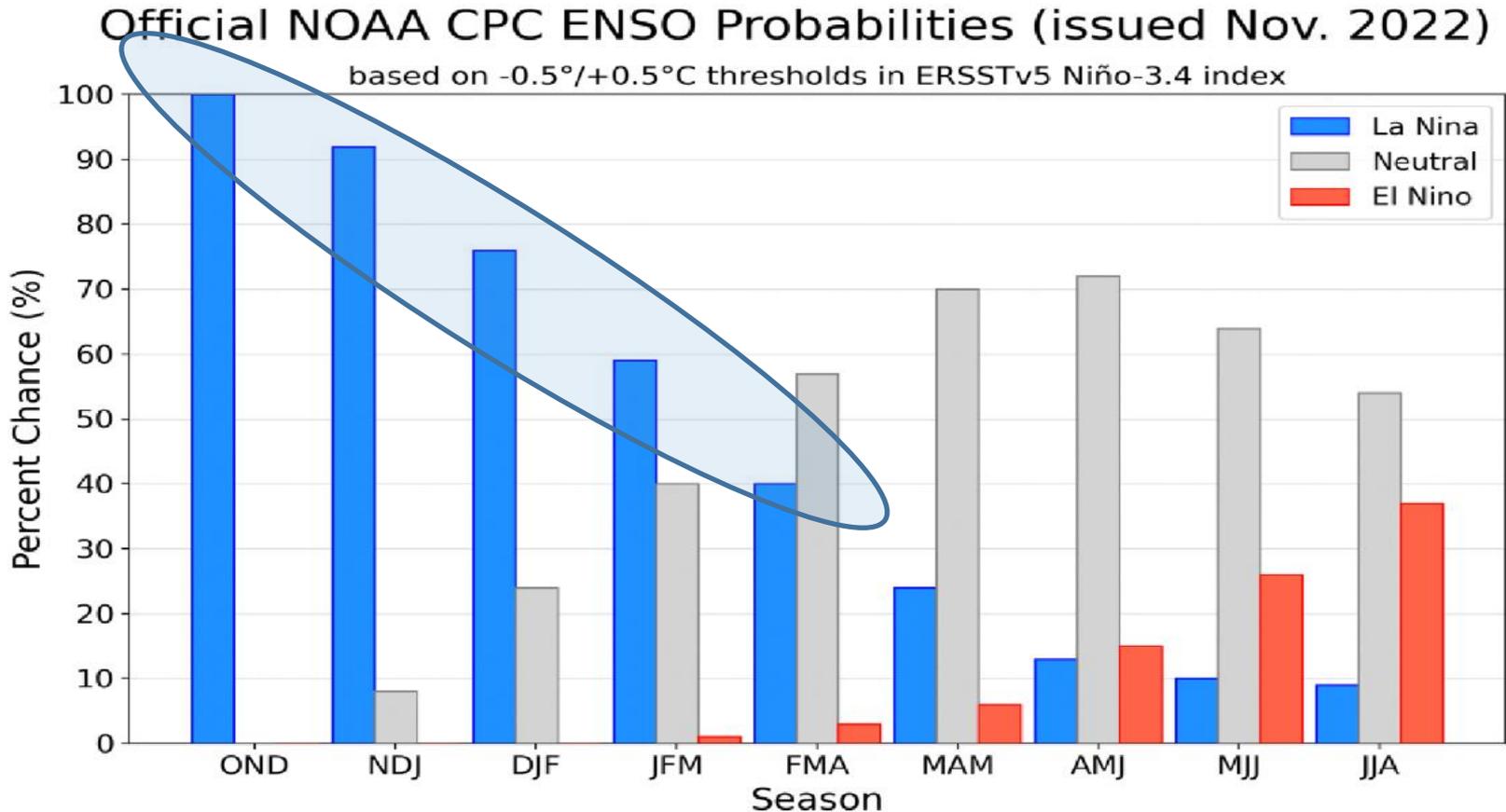


# Status Atual: La Niña

NOAA Coral Reef Watch Daily 5km SST Anomalies (v3.1) 28 Nov 2022



# Previsão do “La Niña”



Status Atual: **La Niña**

FONTE: NOAA

# Previsão sazonal de Chuva para DJF

