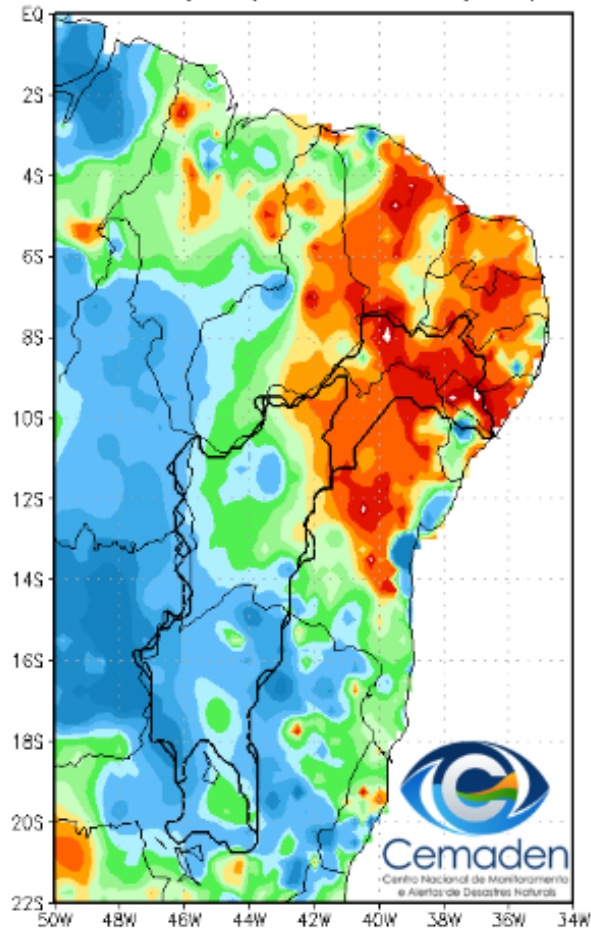


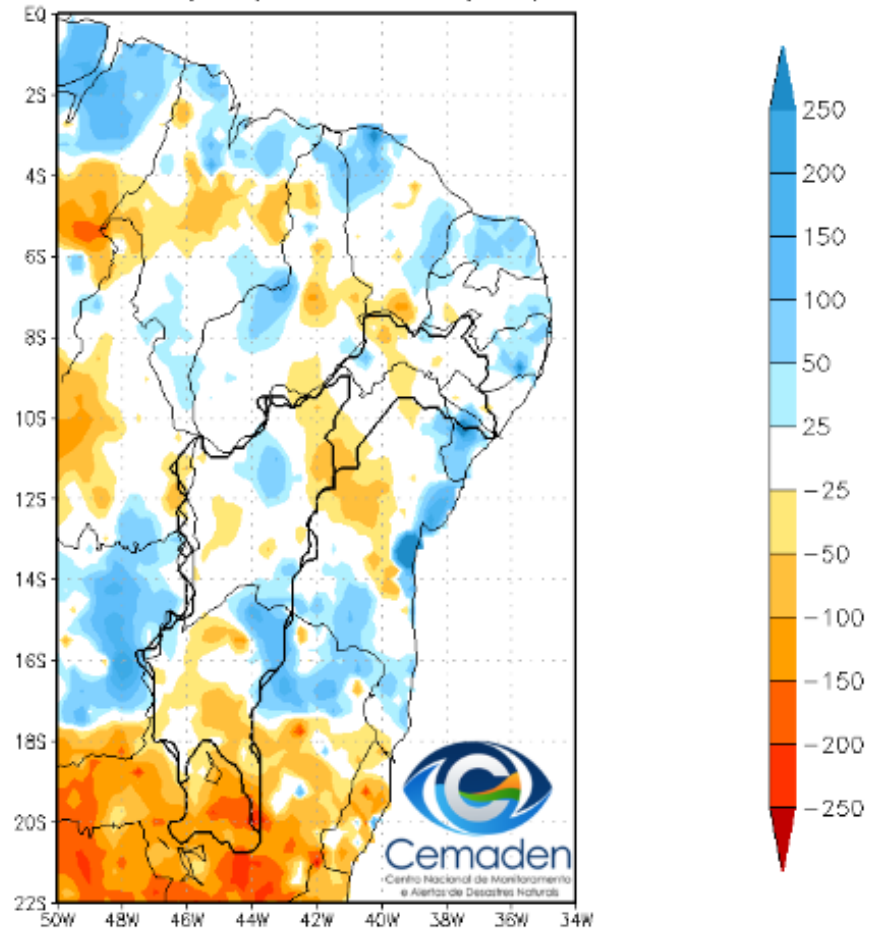
Monitoramento, Previsões e Projeções para a Bacia do Rio São Francisco

Chuva dos últimos 30 dias

Precipitacao Acumulada (mm) A.S.
Período: 09/12/2023 a 08/01/2024

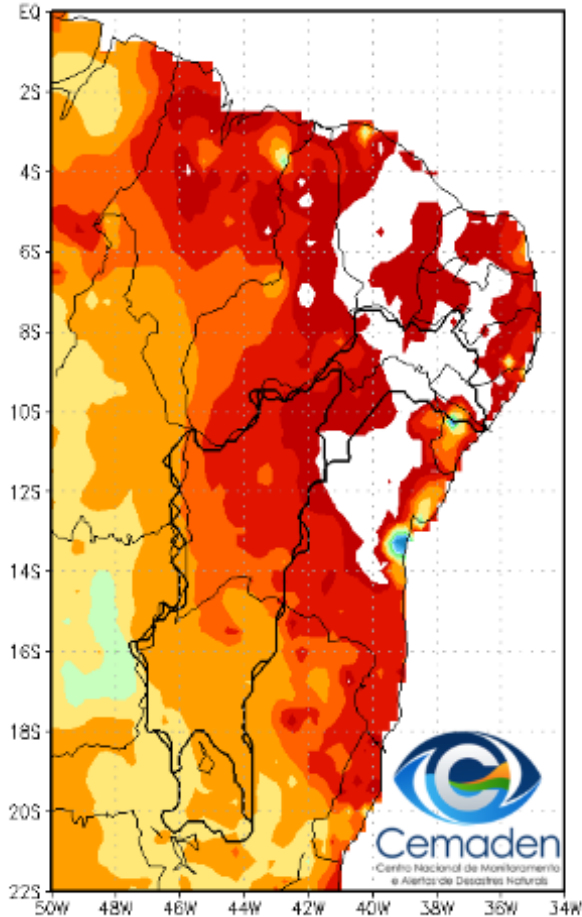


Anomalia de Precipitacao (mm) A.S.
Período: 09/12/2023 a 08/01/2024

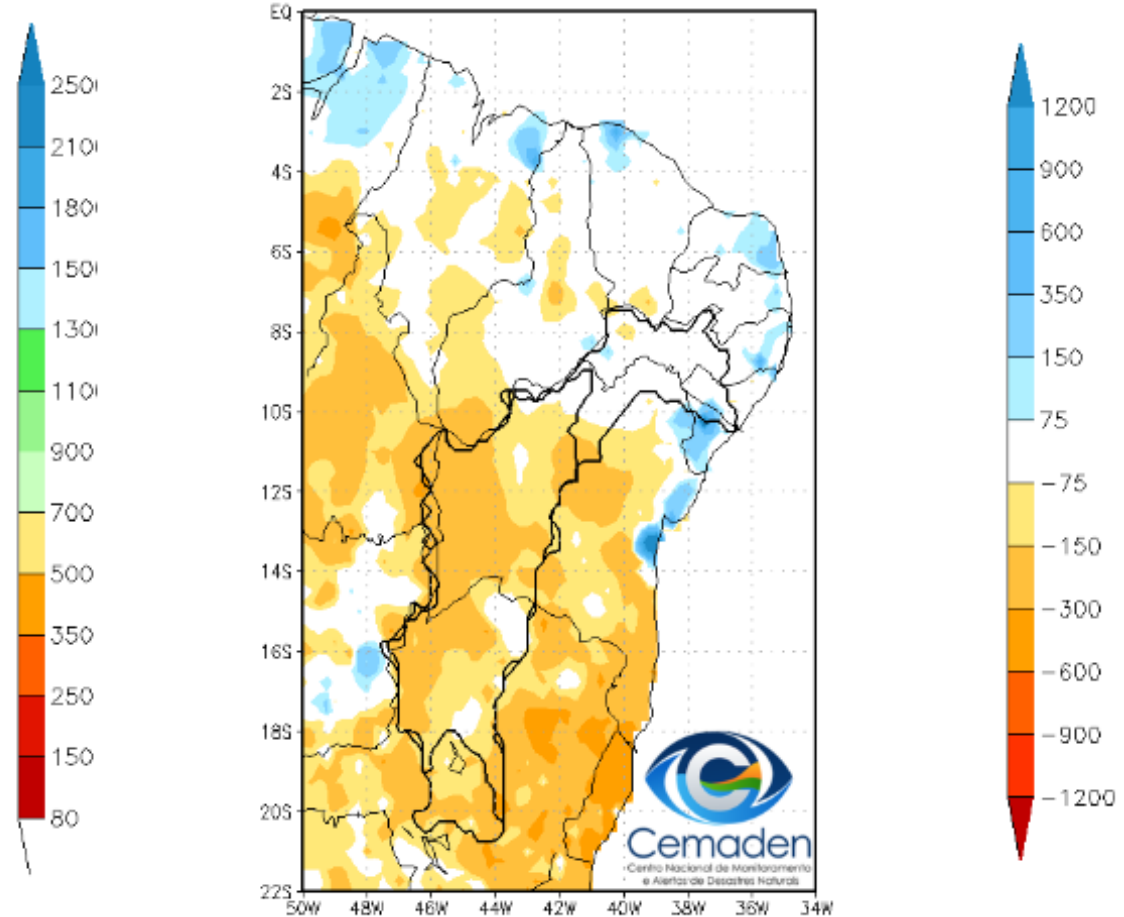


Chuva no Ano Hidrológico - desde 01/10/2022

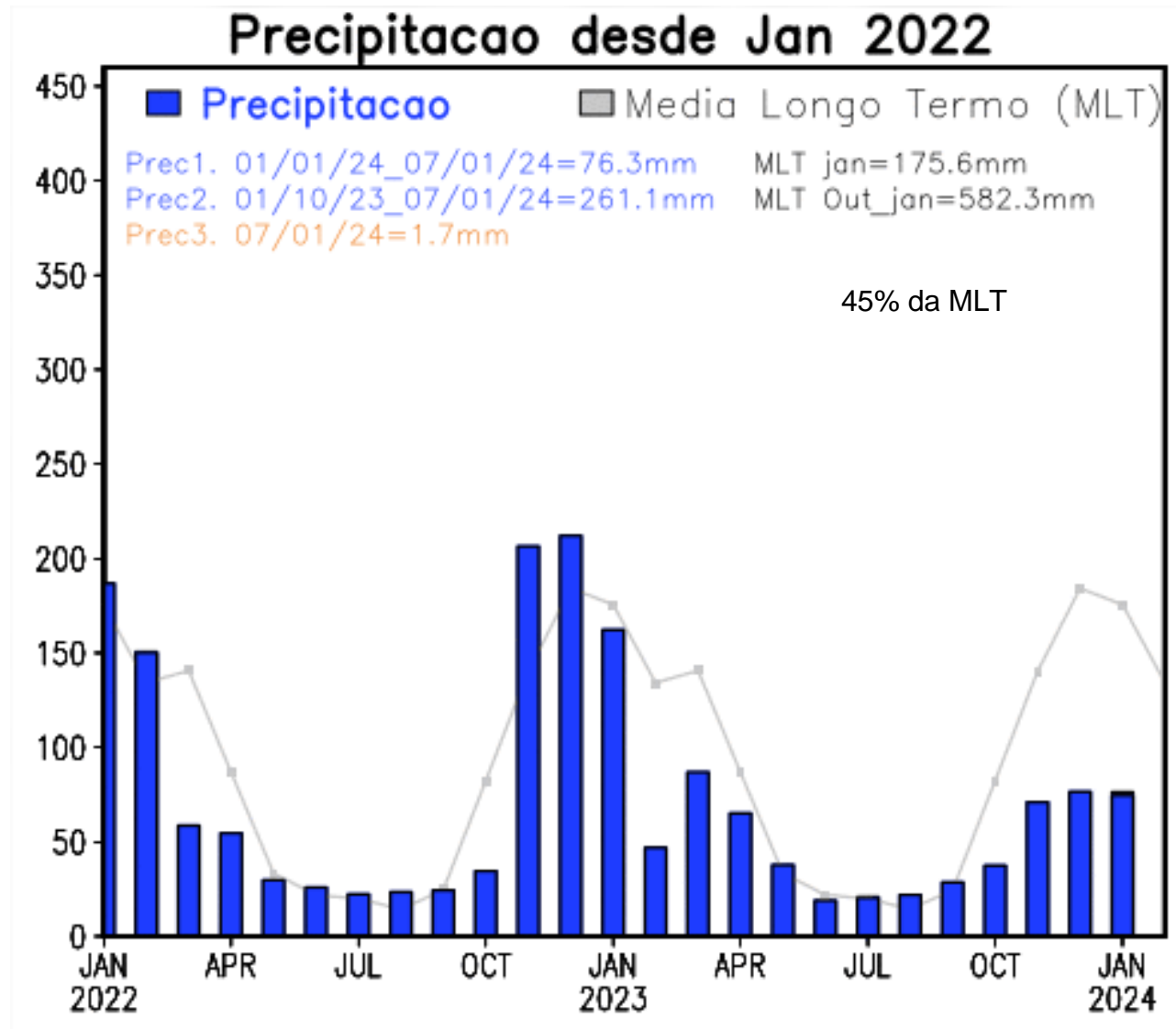
Precipitacao Acumulada (mm) A.S.
Período: 01/10/2023 a 08/01/2024



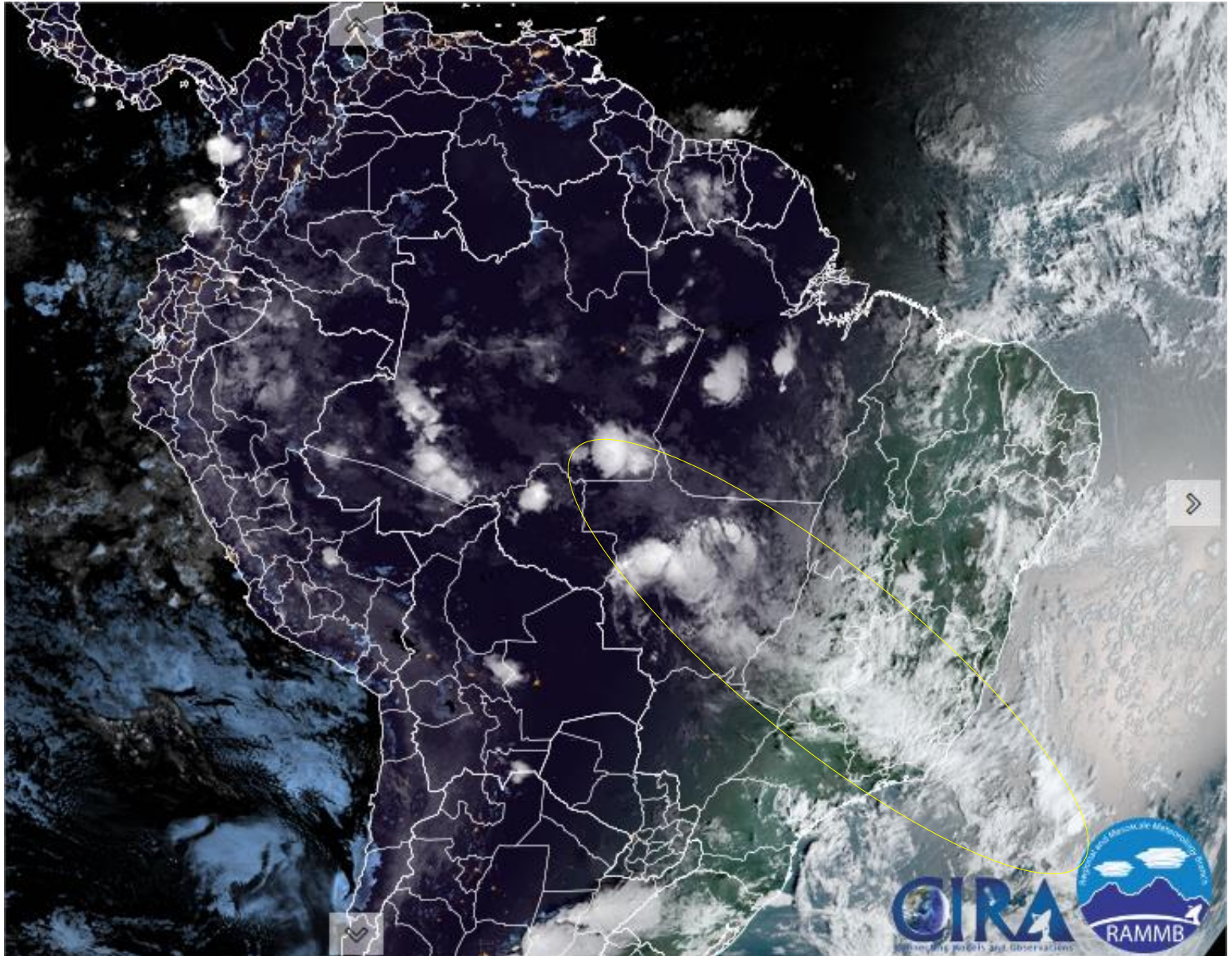
Anomalia de Precipitacao (mm) A.S.
Período: 01/10/2023 a 08/01/2024



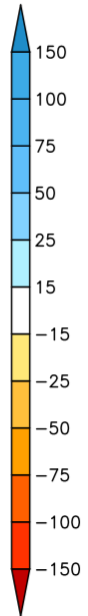
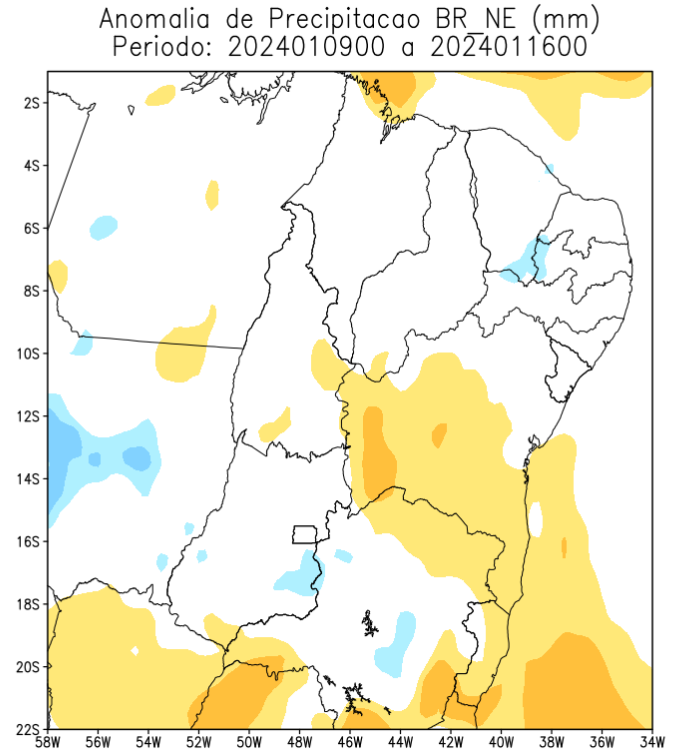
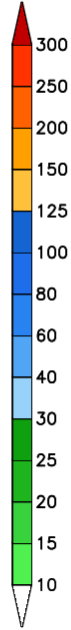
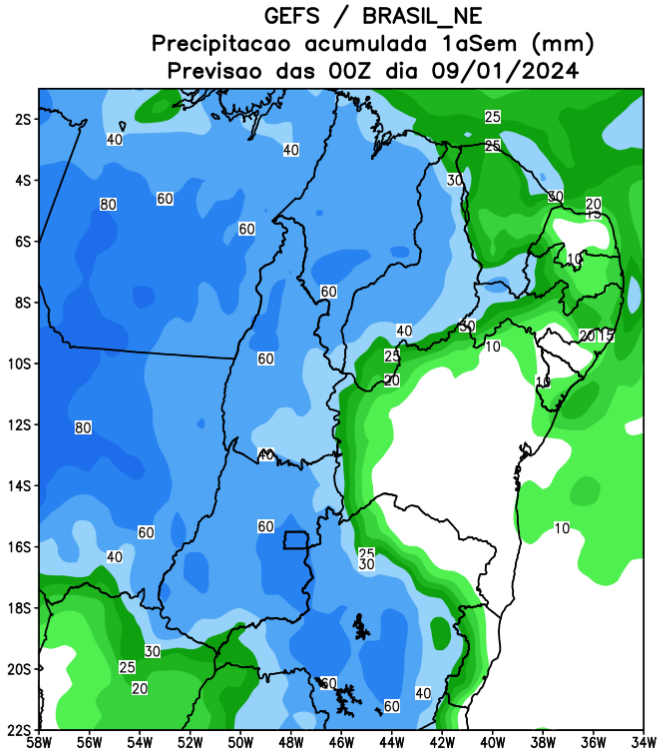
Bacia do rio São Francisco



Situação meteorológica atual



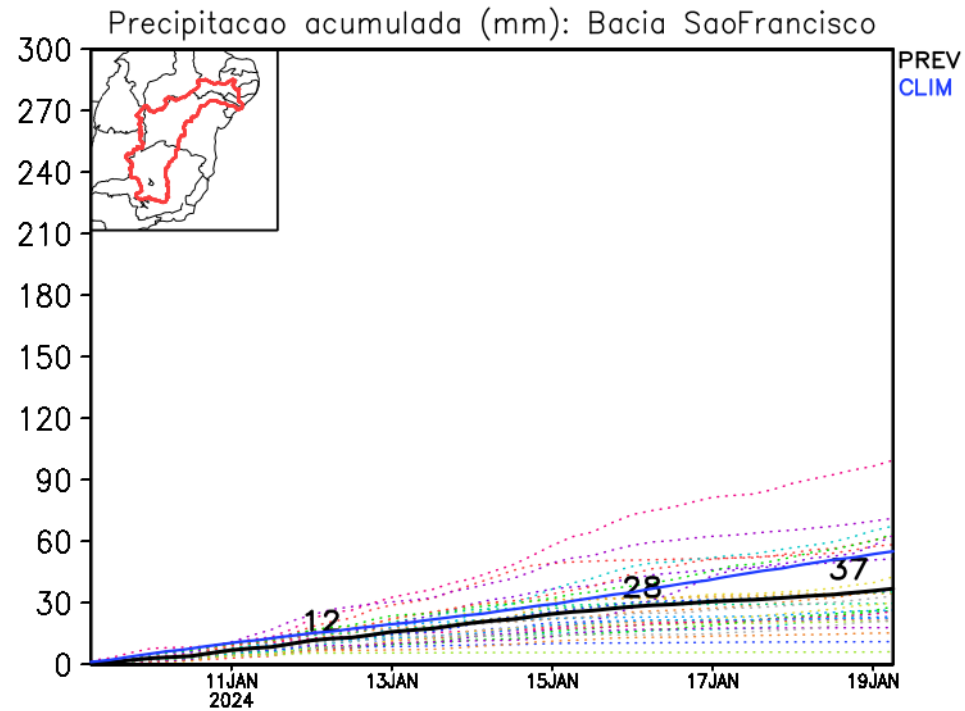
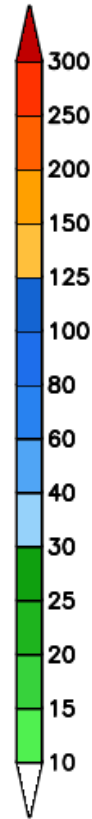
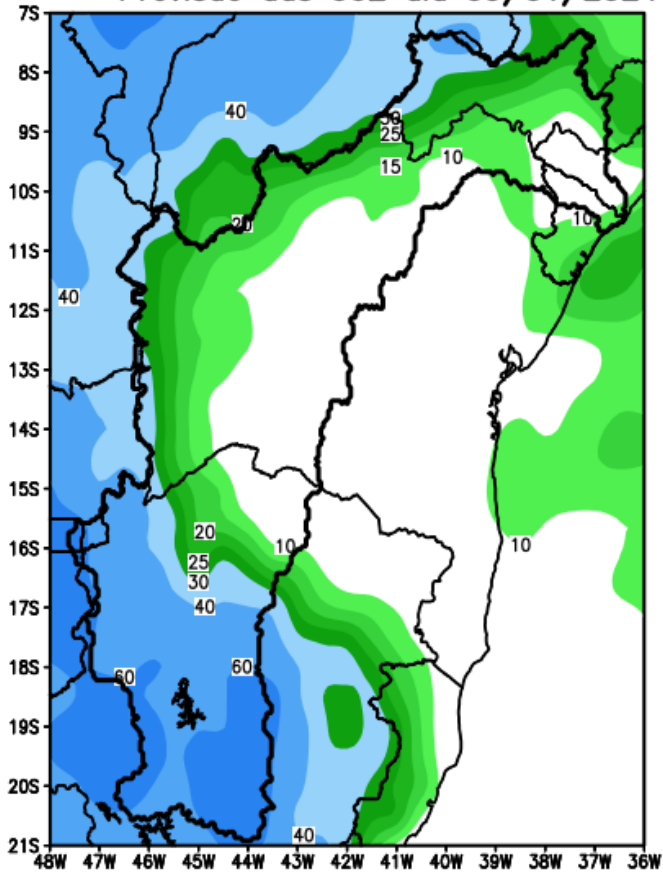
Previsão de chuva próximos 7 dias



Fonte: GEFS/NOAA

Bacia do rio São Francisco

GEFS / Bacia do Rio Sao Francisco
Precipitacao acumulada em 7 dias (mm)
Previsao das 00Z dia 09/01/2024

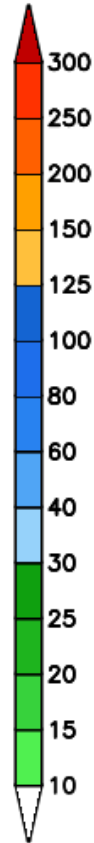
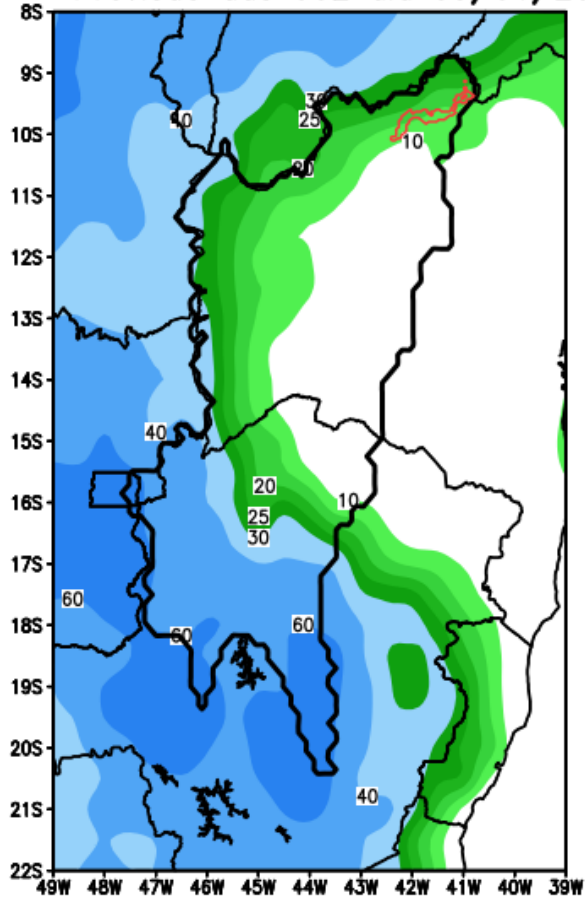


Bacia de Sobradinho

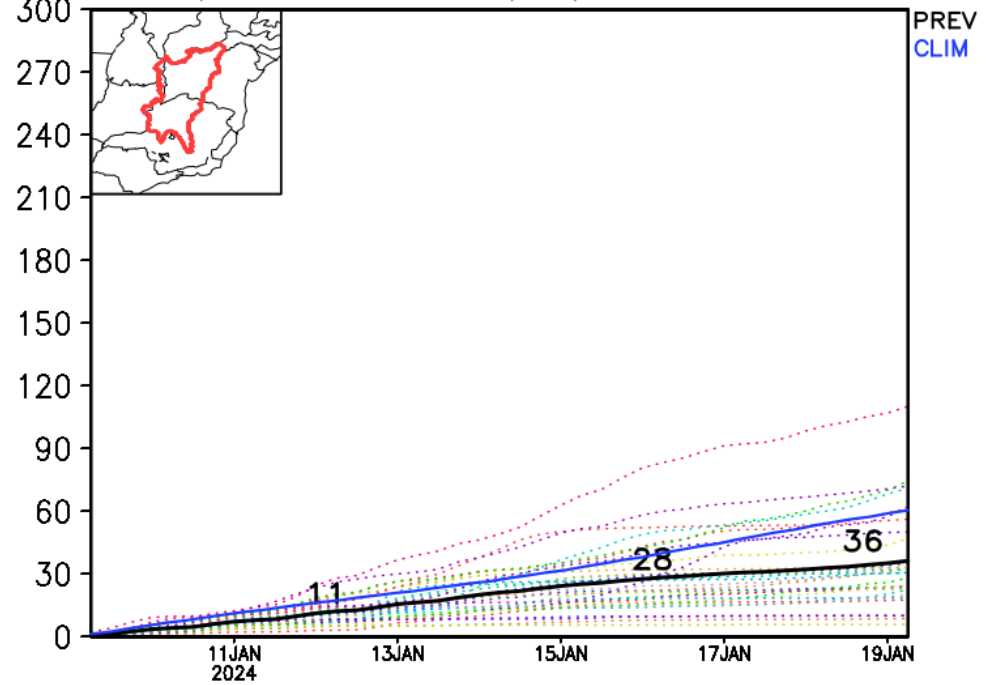
GEFS / Sobradinho

Precipitacao acumulada em 7 dias (mm)

Previsao das 00Z dia 09/01/2024

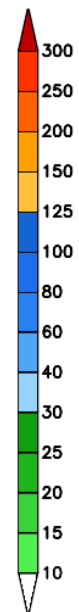
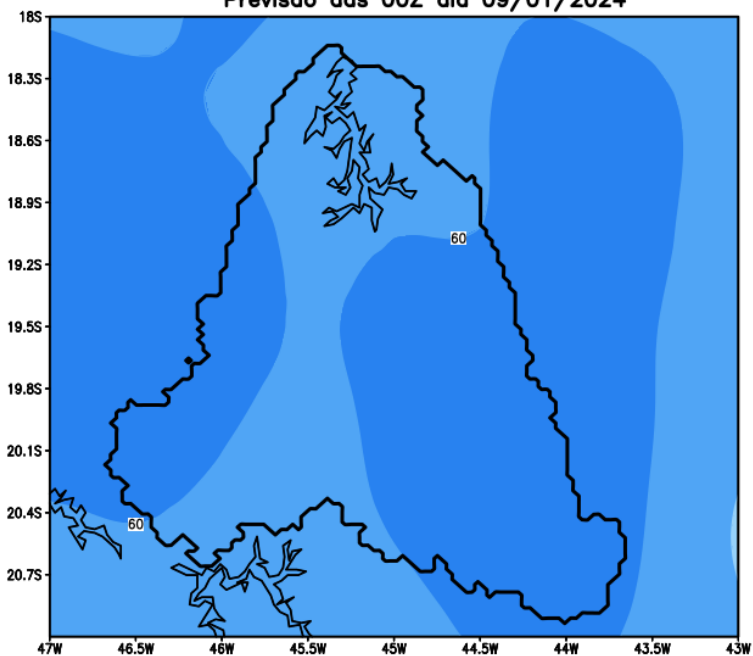


Precipitacao acumulada (mm): Bacia Sobradinho

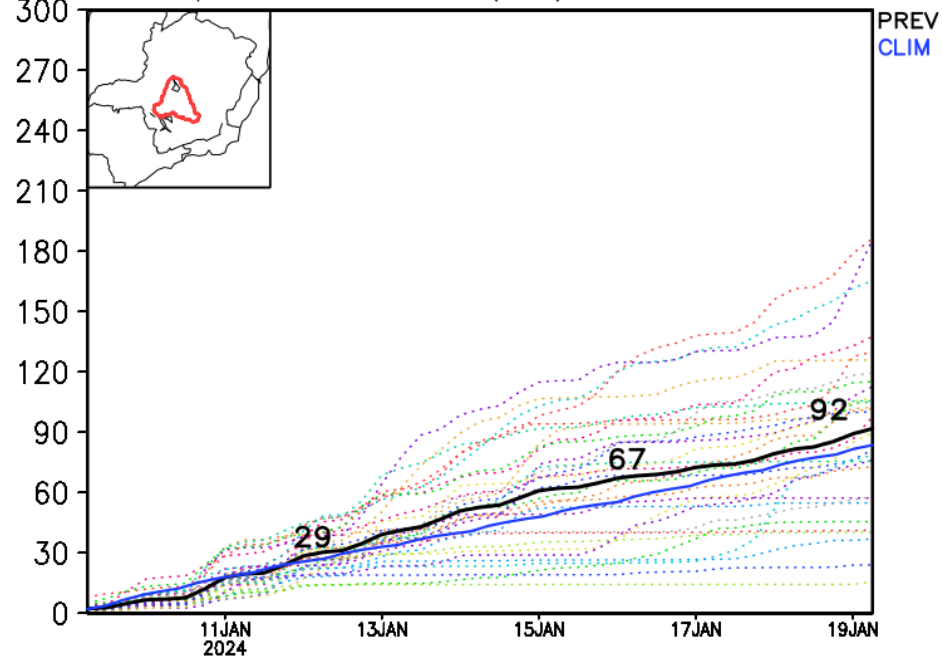


Bacia de Três Marias

GEFS / Tres Marias
Precipitacao acumulada em 7 dias (mm)
Previsao das 00Z dia 09/01/2024

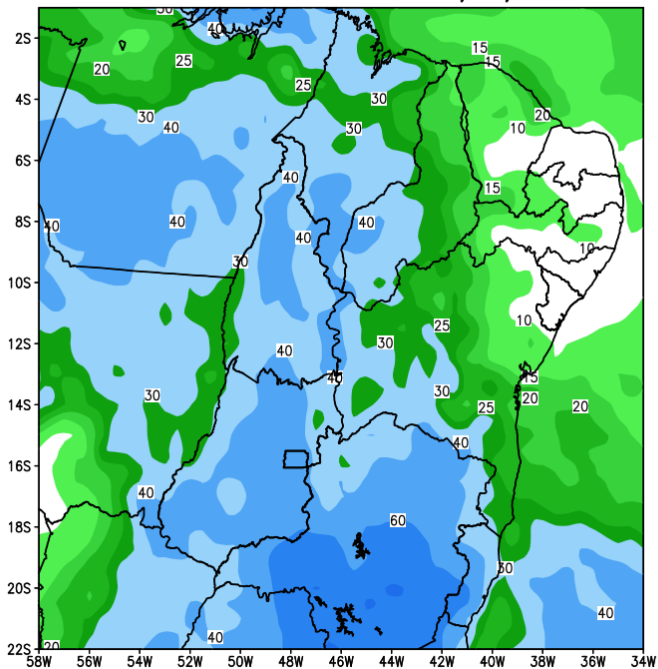


Precipitacao acumulada (mm): Bacia Tres Marias

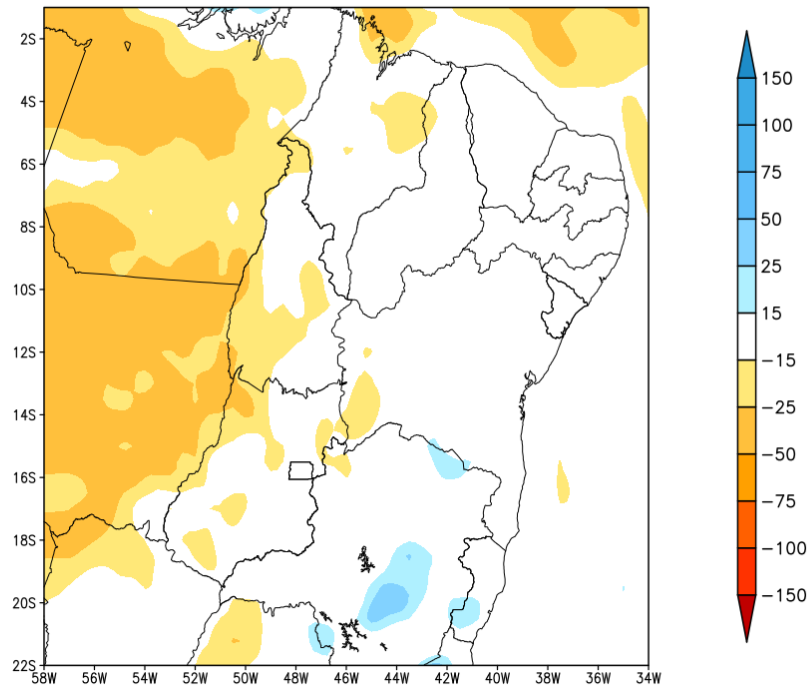


Tendência para a 2a semana

GEFS / BRASIL_NE
Precipitacao acumulada 2aSem (mm)
Previsao das 00Z dia 09/01/2024



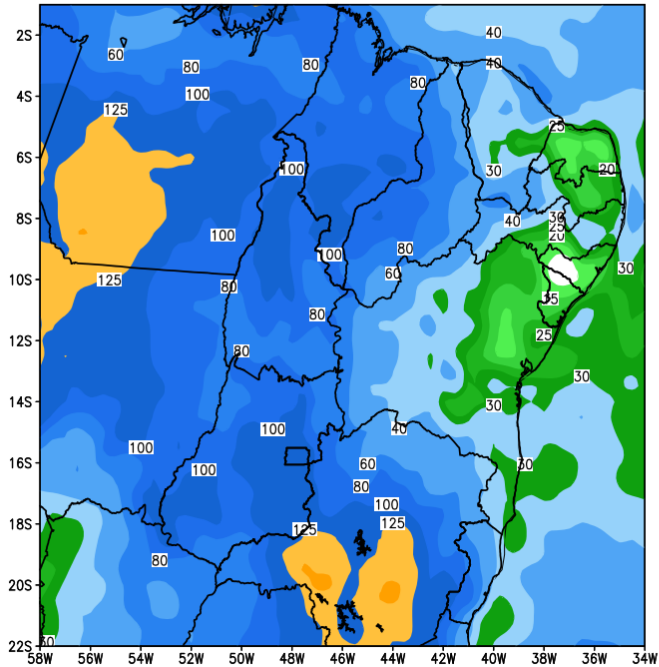
Anomalia de Precipitacao BR_NE (mm)
Periodo: 2024011700 a 2024012300



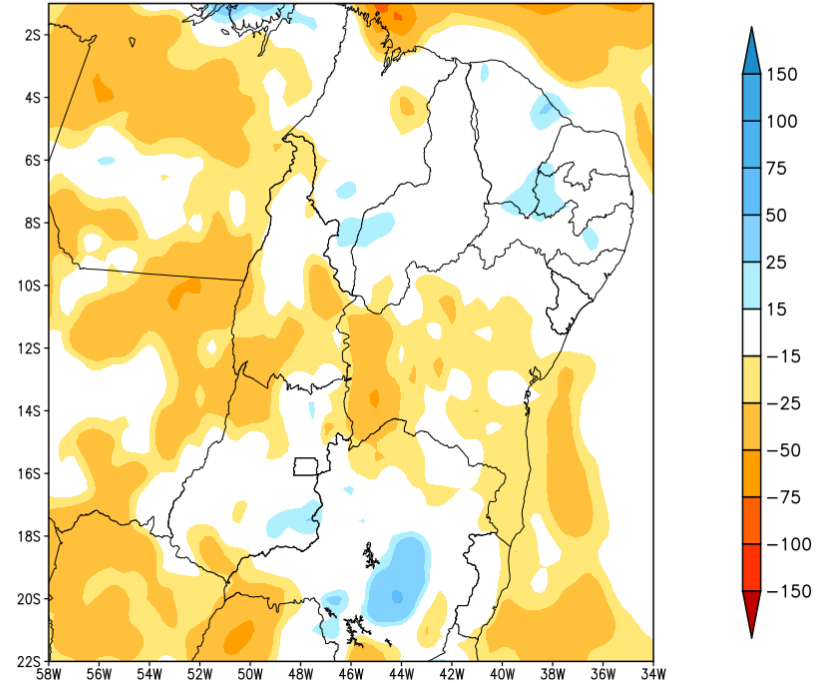
Modelo GFS/NOAA

Tendência para as duas próximas semanas

GEFS / BRASIL_NE
Precipitacao acumulada 14dias (mm)
Previsao das 00Z dia 09/01/2024



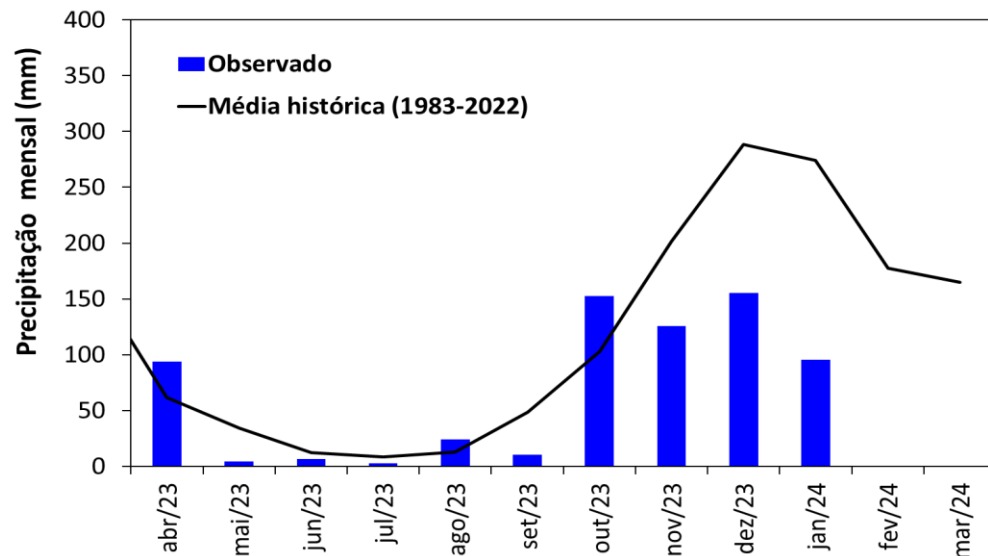
Anomalia de Precipitacao BR NE (mm)
Periodo: 2024010900 a 2024012300



Modelo GFS/NOAA

Monitoramento UHE Três Marias

Precipitação



Estação Chuvosa - Out a Mar - 1209 mm

2022/2023: 1288 mm (106% da MLT)

2023/2024*: 530 mm (44% da MLT)

Estação Seca - Abr a Set - 179 mm

2022: 116 mm (64% da MLT)

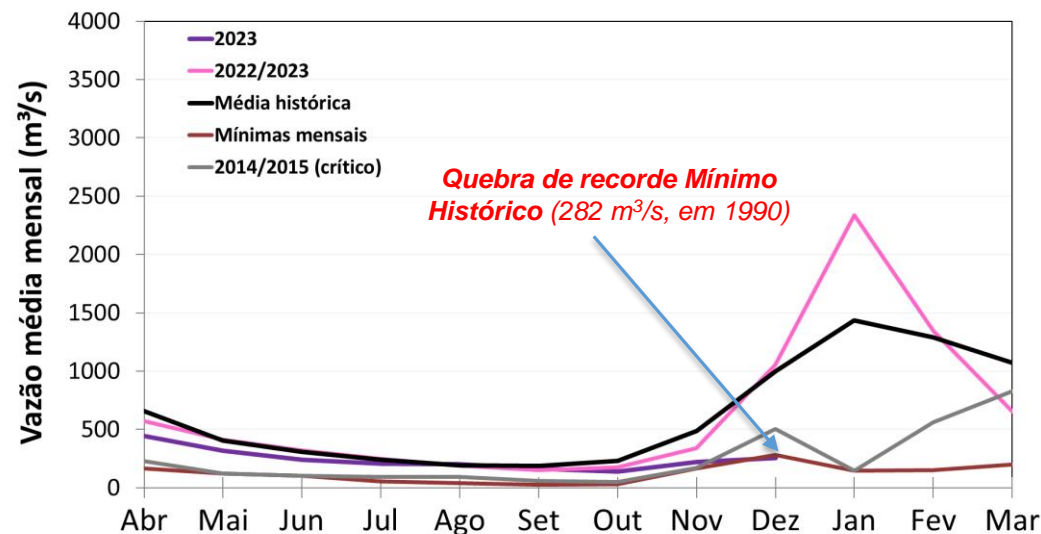
2023: 142 mm (79% da MLT)

Dez/23: 155 mm (54% da MLT)

Jan/24*: 96 mm (181% da MLT PARCIAL)

*Até 07/01/2024

Vazão



Estação Chuvosa - Nov a Abr - 989 m³/s

2022/2023: 1029 m³/s (104% da MLT)

2023/2024*: 372 m³/s (38% da MLT)

Estação Seca - Maio a Out - 260 m³/s

2022: 250 m³/s (96% da MLT)

2023: 211 m³/s (81% da MLT)

Dez/23: 254 m³/s (25% da MLT)

06/Jan/24: 969 m³/s (67% da MLT)

*Até 06/01/2024

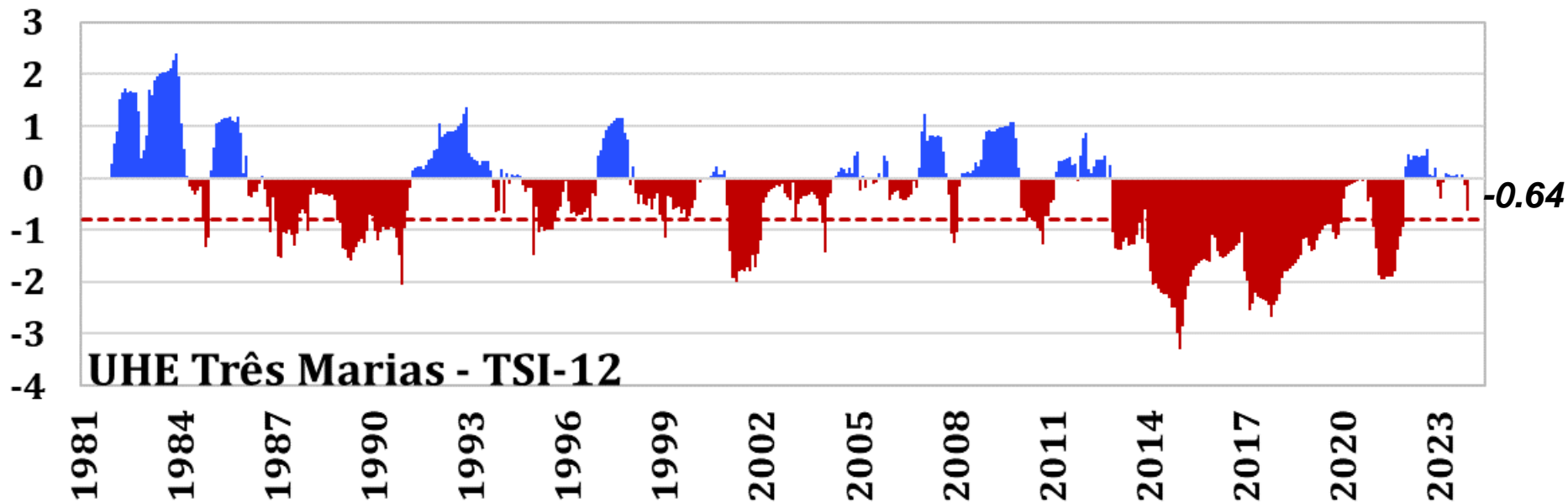
MLT: Média de Longo Termo (1983-2022)

Dados de precipitação: INMET, ANA, CEMADEN.

Dados de vazão: ONS e ANA.

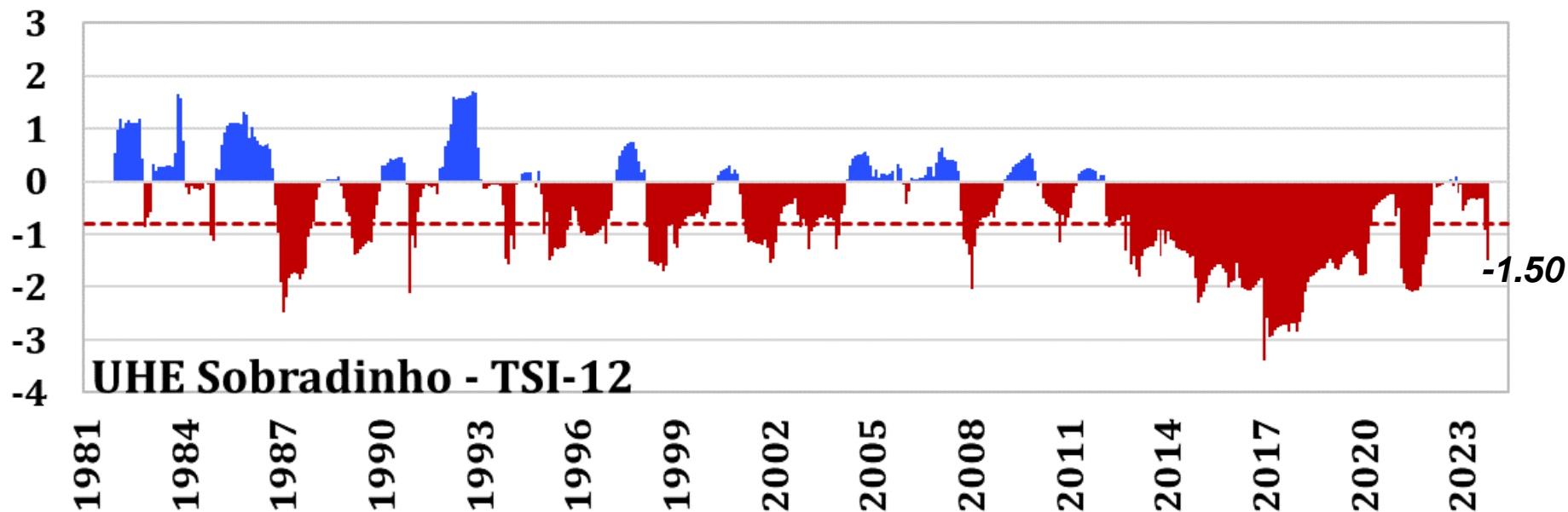
Seca Hidrológica Fraca

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



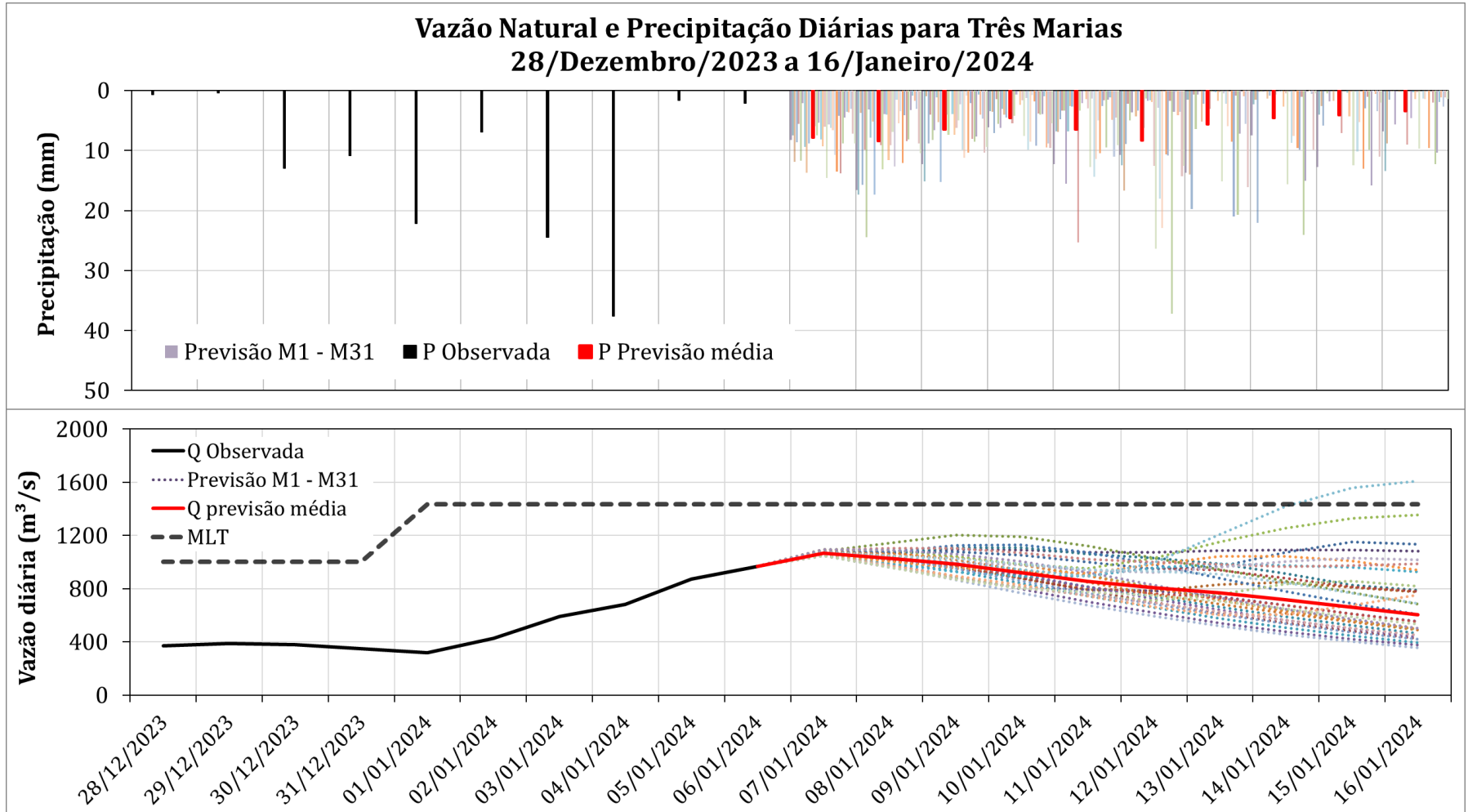
Seca Hidrológica Severa

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



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

Vazão Natural e Precipitação Diárias para Três Marias
28/Dezembro/2023 a 16/Janeiro/2024



Dados **observados de precipitação** (barras pretas) para o período 28/12 a 06/01 e **previsão** para o período de 07 a 16/01
Dados **observados de vazão** (linha preta) para o período 28/12 a 06/01/ e **previsão** para o período de 07 a 16/01

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

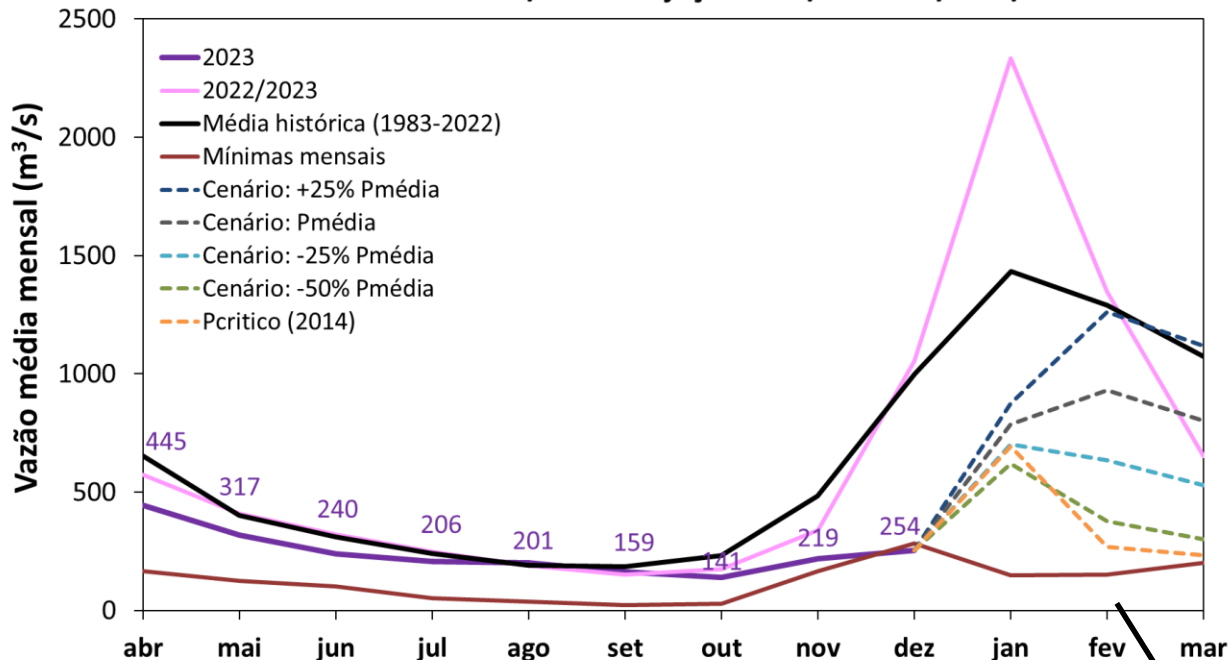
As linhas coloridas representam os membros de previsão de vazão.

Previsão média para os próximos 10 dias: 841 m³/s

59% da MLT de Janeiro (1434 m³/s)

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

Histórico e simulação da vazão natural média mensal
 UHE Três Marias - Rio São Francisco
 Previsão: 07 a 16/Jan - Projeções: 17/Jan a 31/Mar/24



Janeiro-Março

MLT: 1265 m³/s

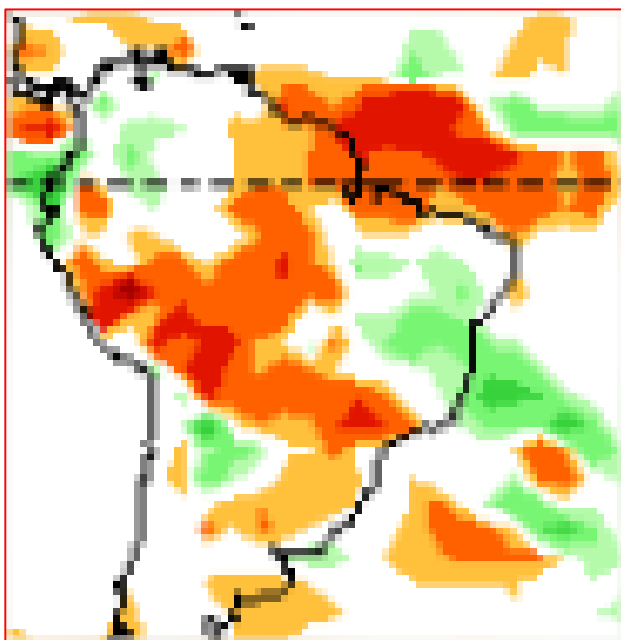
Vazão	% MLT
1085 m³/s	86%
839 m³/s	66%
623 m³/s	49%
434 m³/s	34%
398 m³/s	31%

Jan a Mar/23 = 1445 m³/s (114% da MLT)

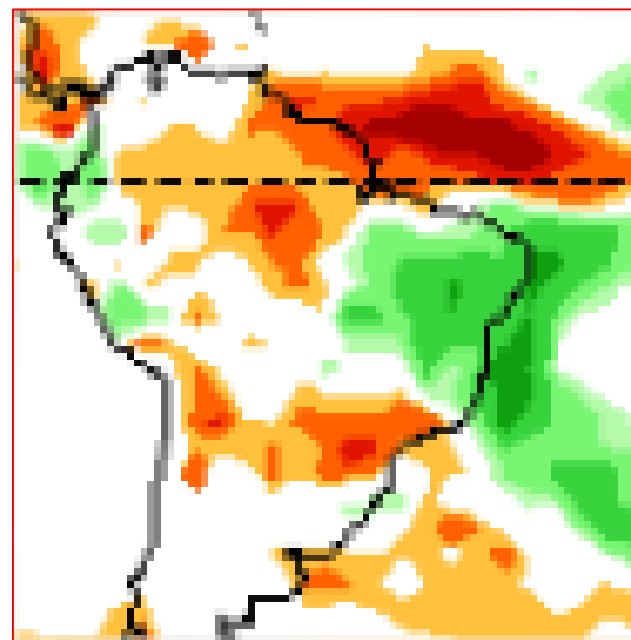
Para todos os cenários, o modelo hidrológico indica uma condição de vazão média inferior comparado ao registrado em 2023!

Tendência 3a e 4a semanas

23-29 JAN

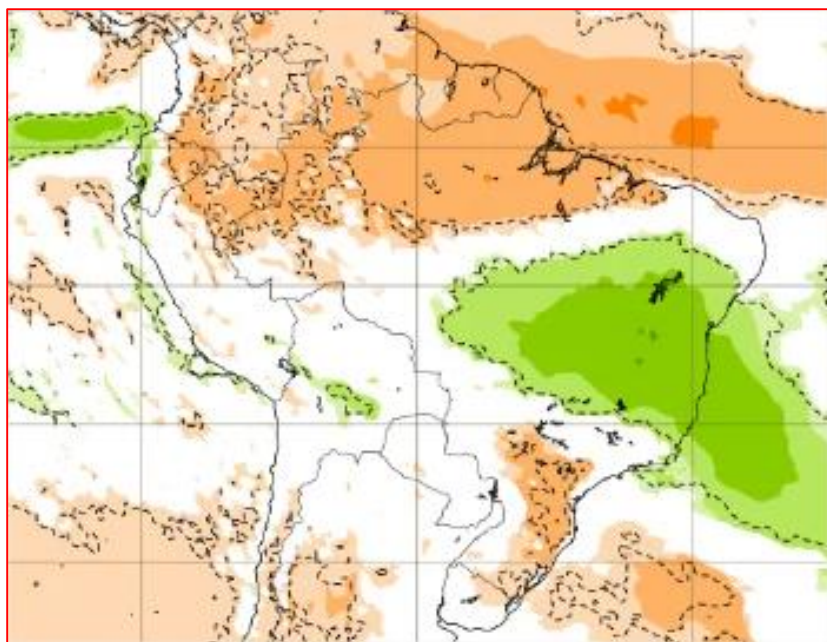


29 JAN- 04 FEB

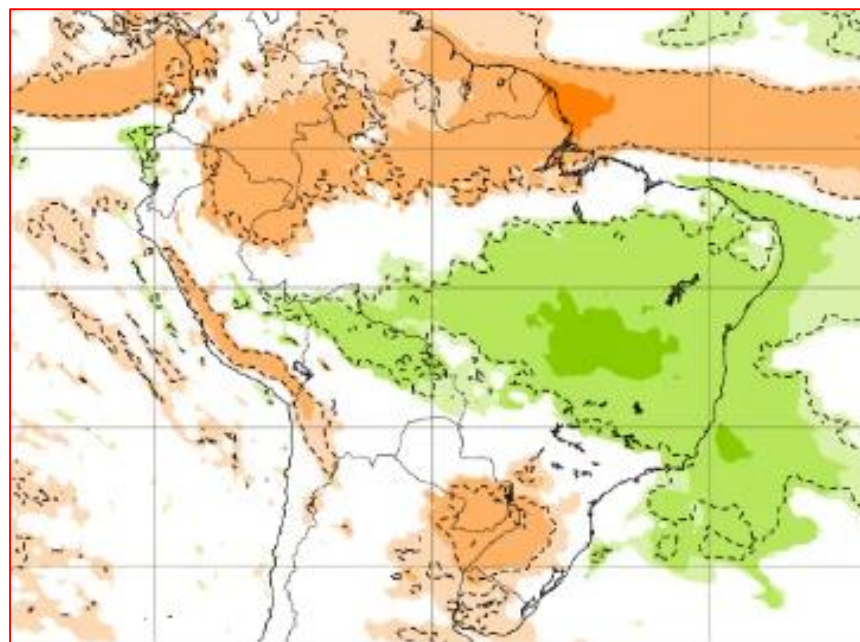


Tendência para 3ª e 4ª semanas

22-29JAN

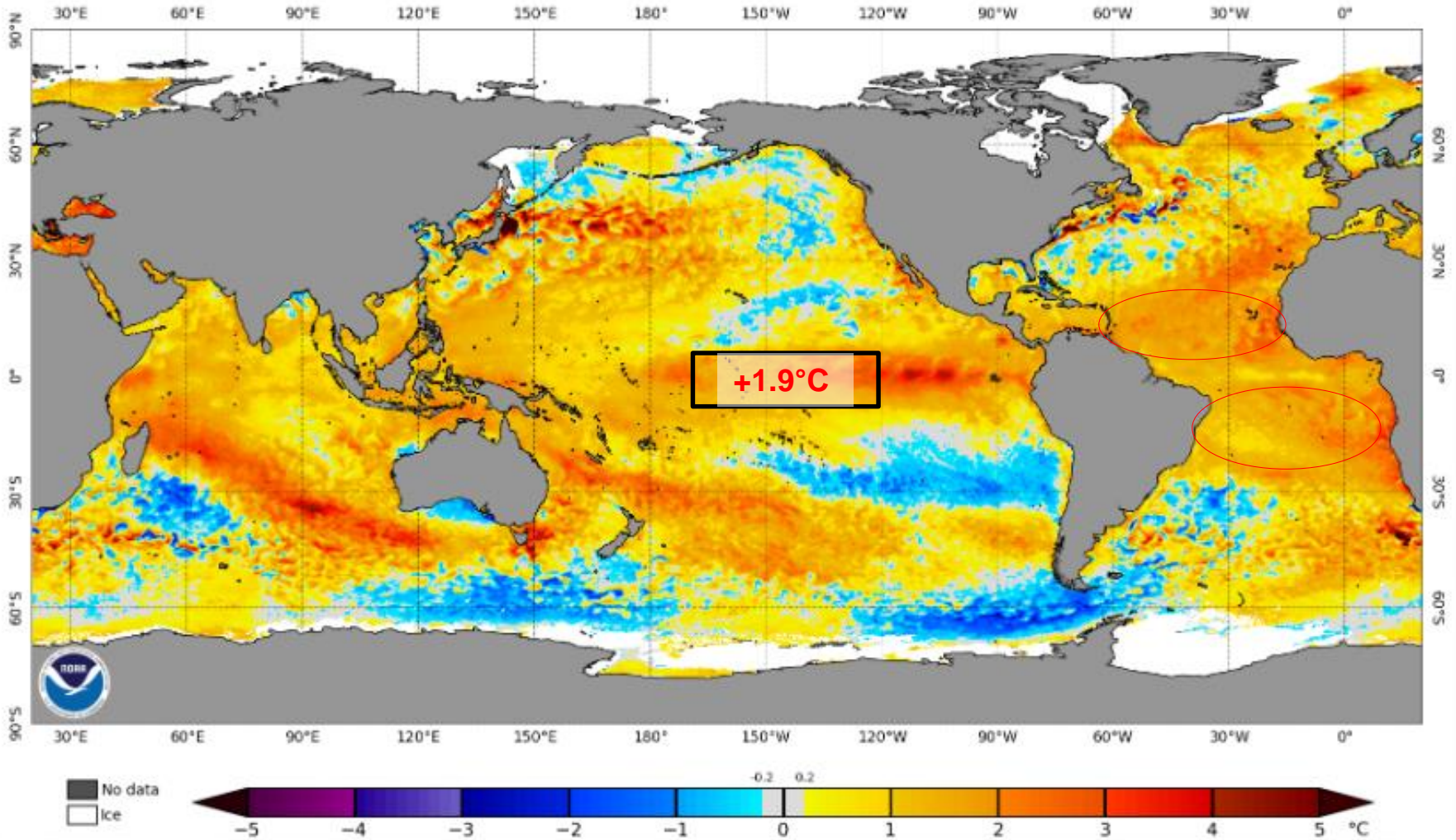


29/JAN-05/FEB



Status Atual: El Niño

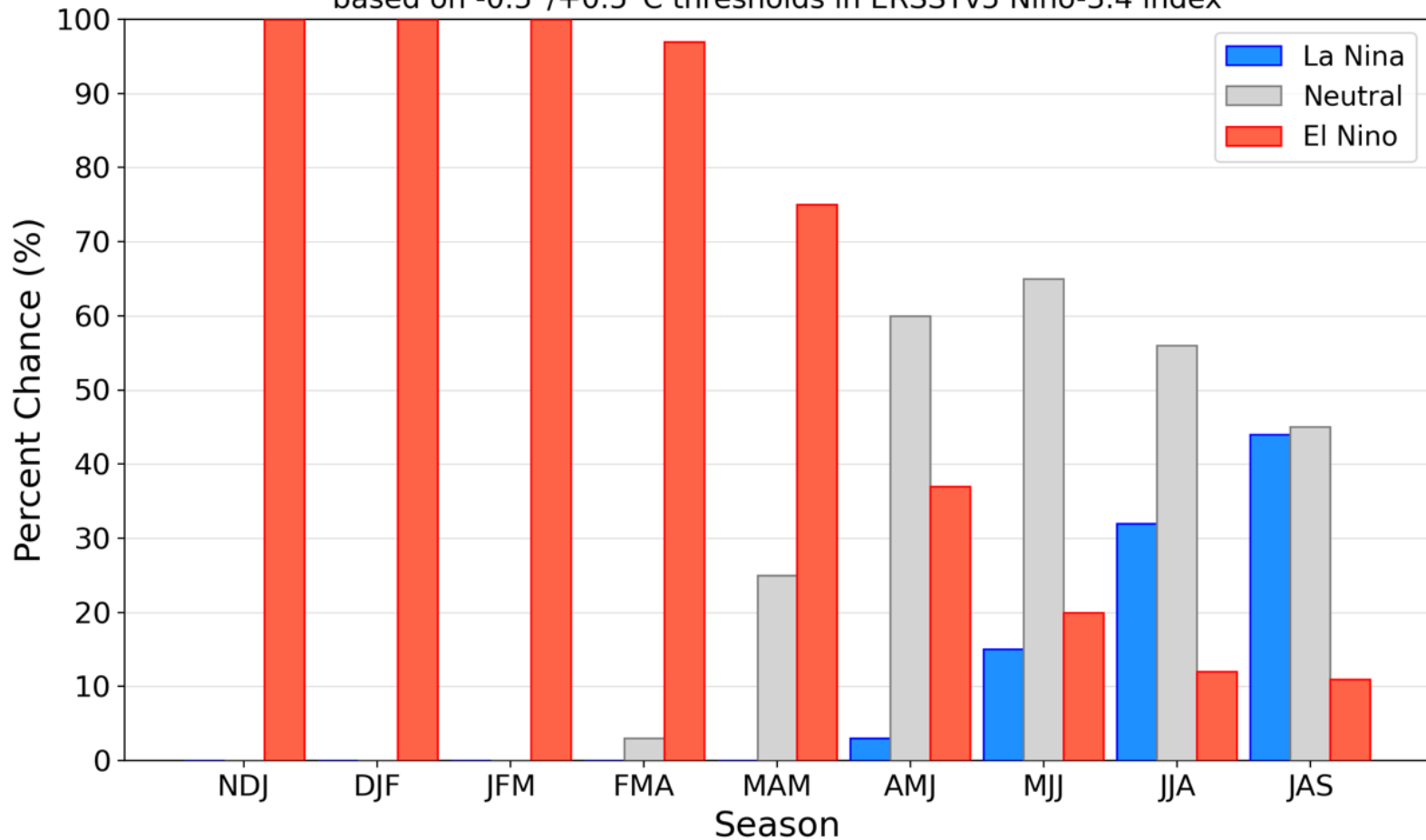
NOAA Coral Reef Watch Daily 5km SST Anomalies (v3.1) 6 Jan 2024



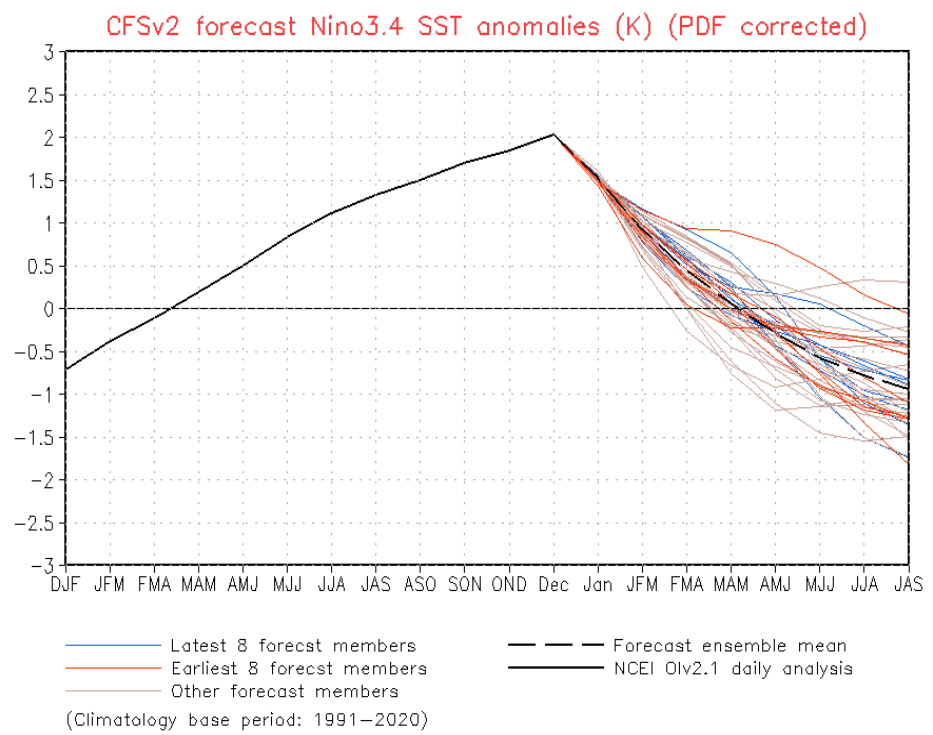
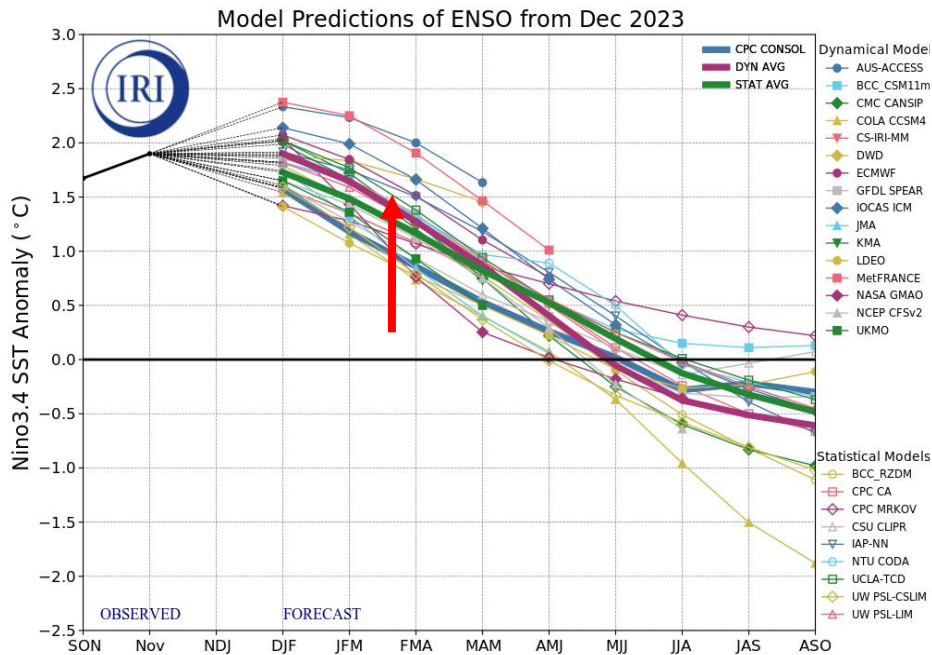
Previsão do “ENSO”

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

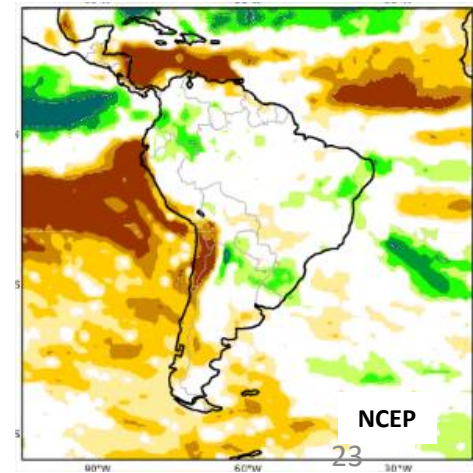
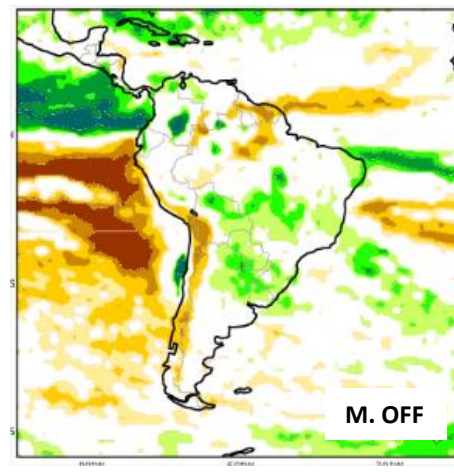
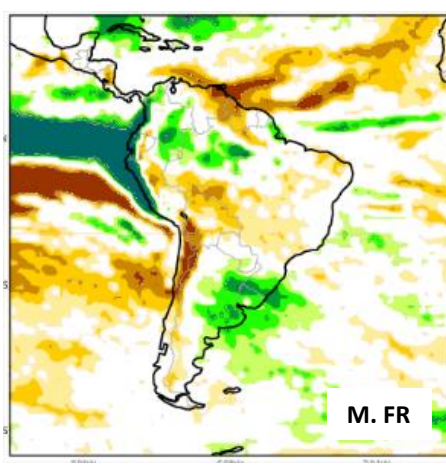
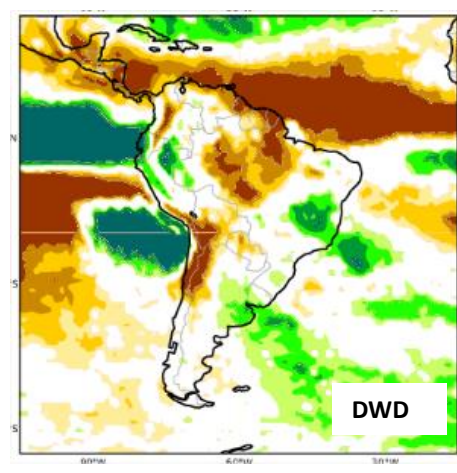
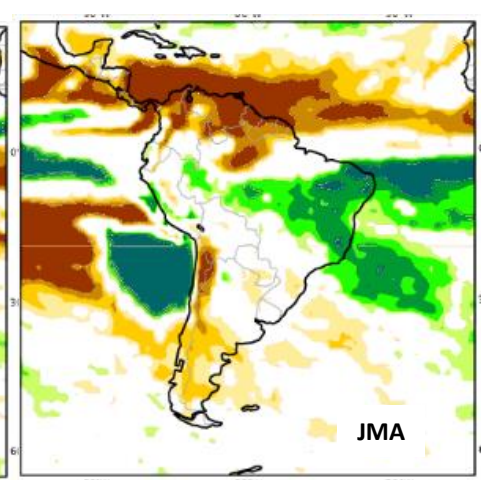
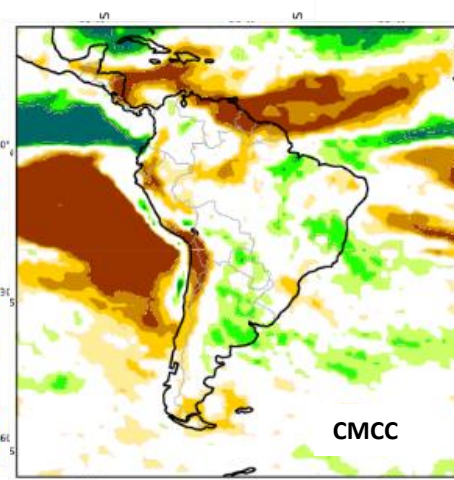
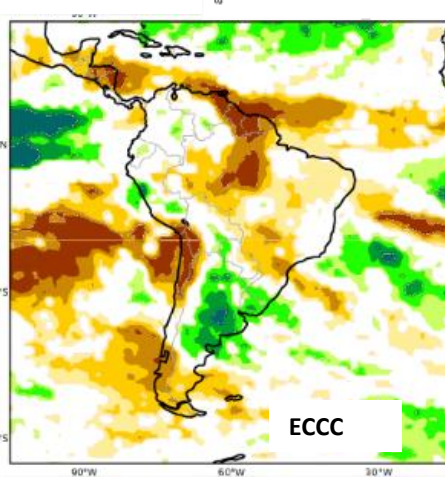
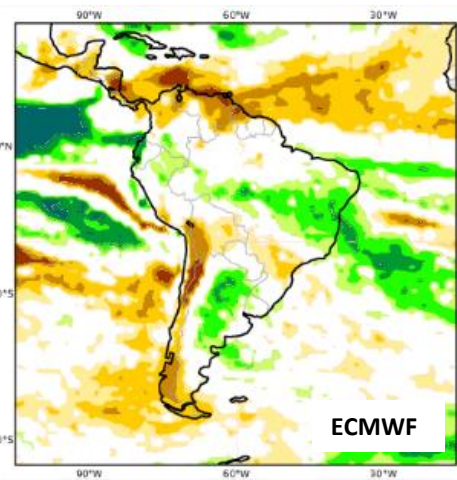
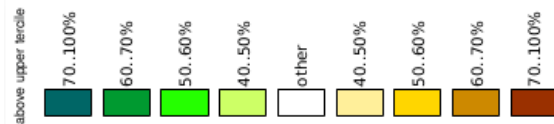


Previsão do “ENSO”



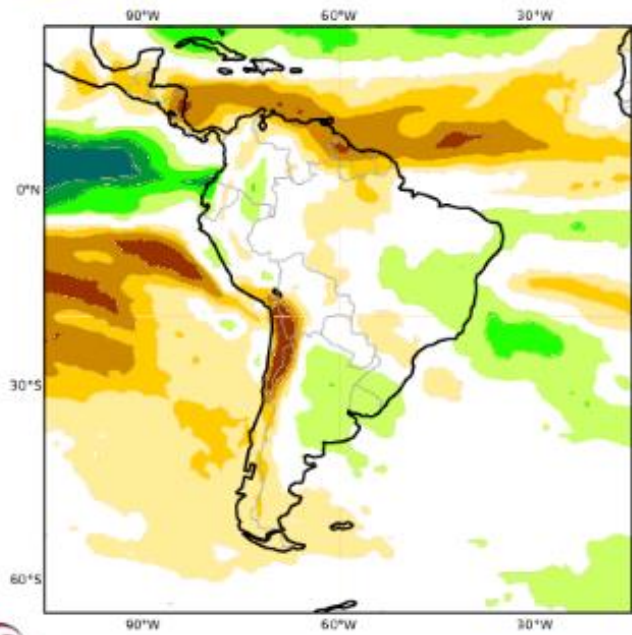
FONTE: NOAA

Previsão Sazonal de Chuva JFM

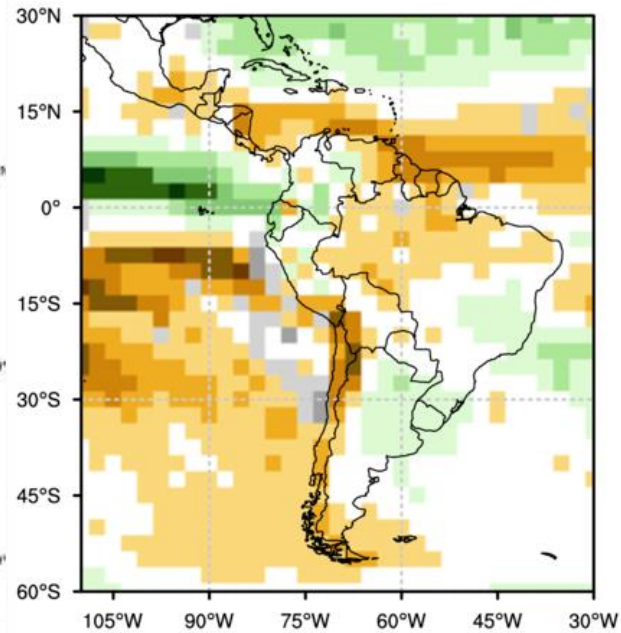


Previsão Sazonal de Chuva Multi-Modelo para JFM

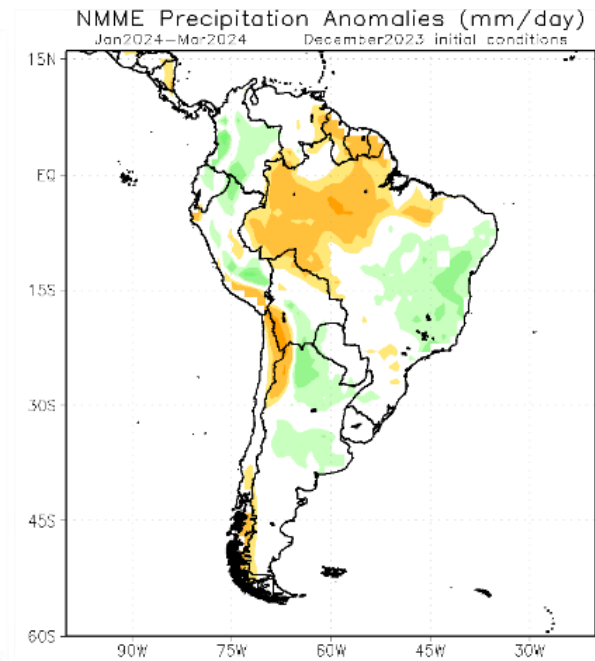
C3S multi-system seasonal forecast
Prob(most likely category of precipitation)
Nominal forecast start: 01/12/23
Unweighted mean



Modelos Europeus



Modelos da Organização Meteorológica Mundial



Modelos Americanos