

Monitoramento da situação da seca na Região Norte

DIAGNÓSTICO: 20 DE OUTUBRO/2023

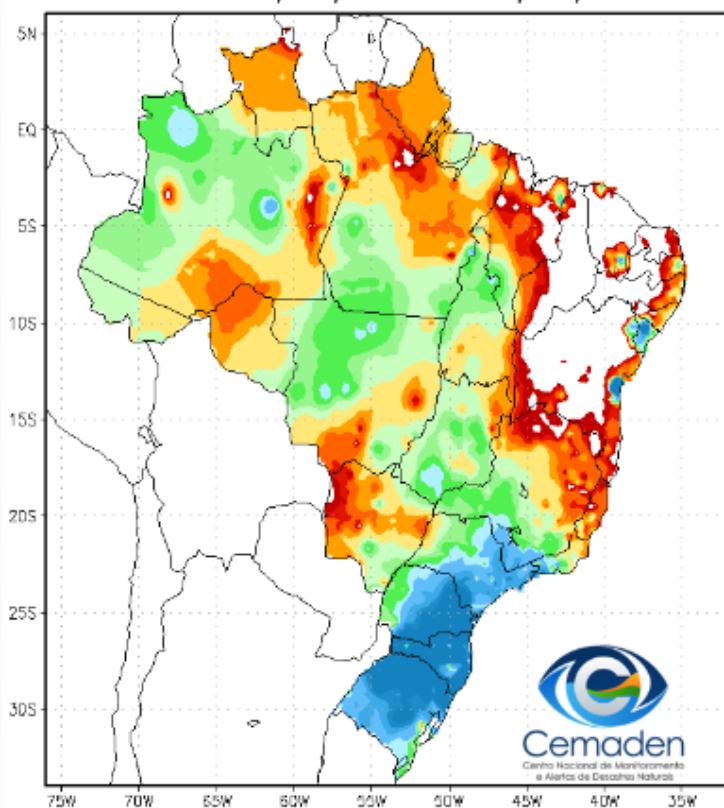


MINISTÉRIO DA
CIÊNCIA, TECNOLOGIA
E INOVAÇÕES

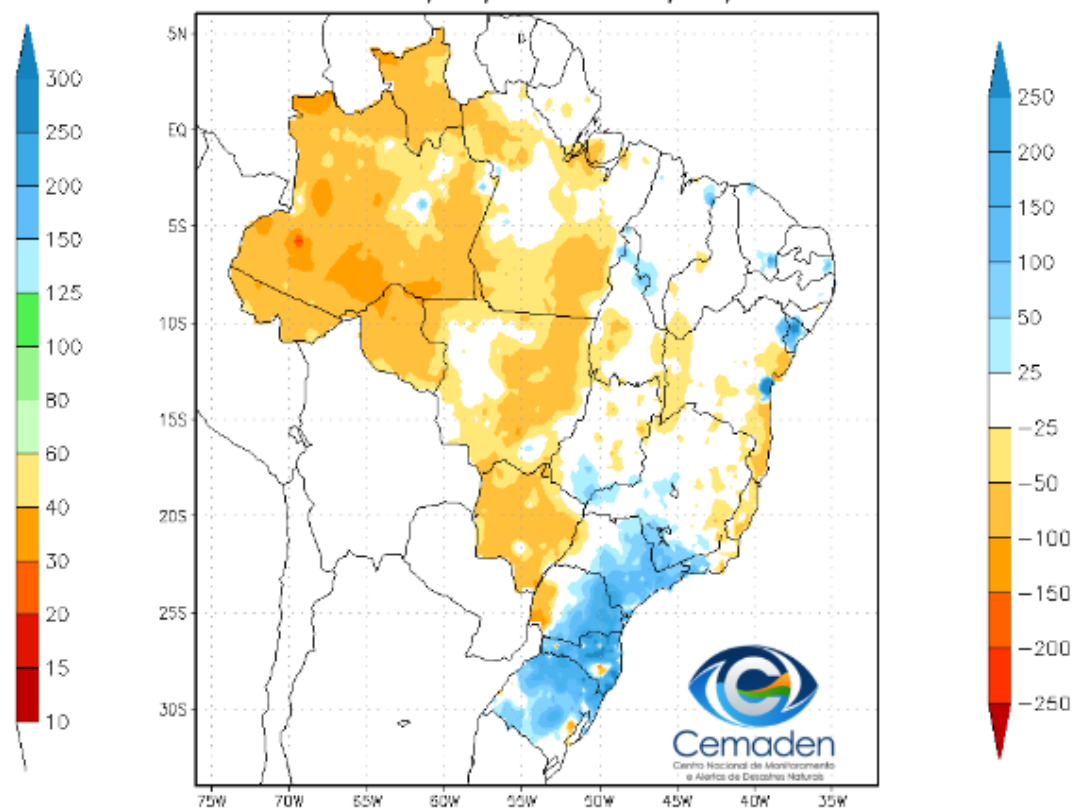


PRECIPITAÇÃO

Precipitação Acumulada (mm)
Período: 19/09/2023 a 19/10/2023

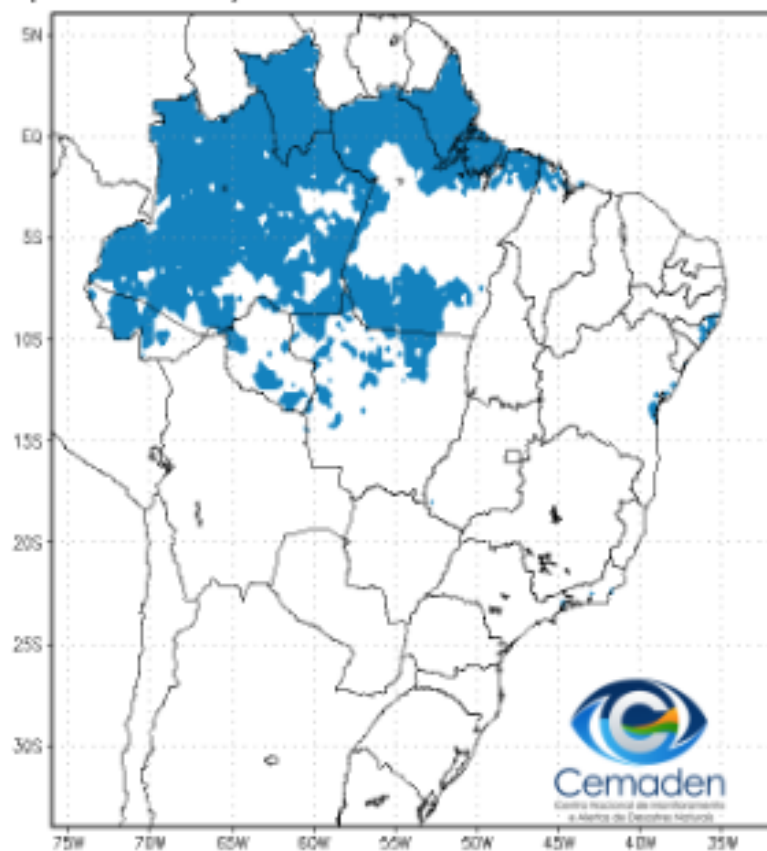


Anomalia de Precipitação (mm)
Período: 19/09/2023 a 19/10/2023

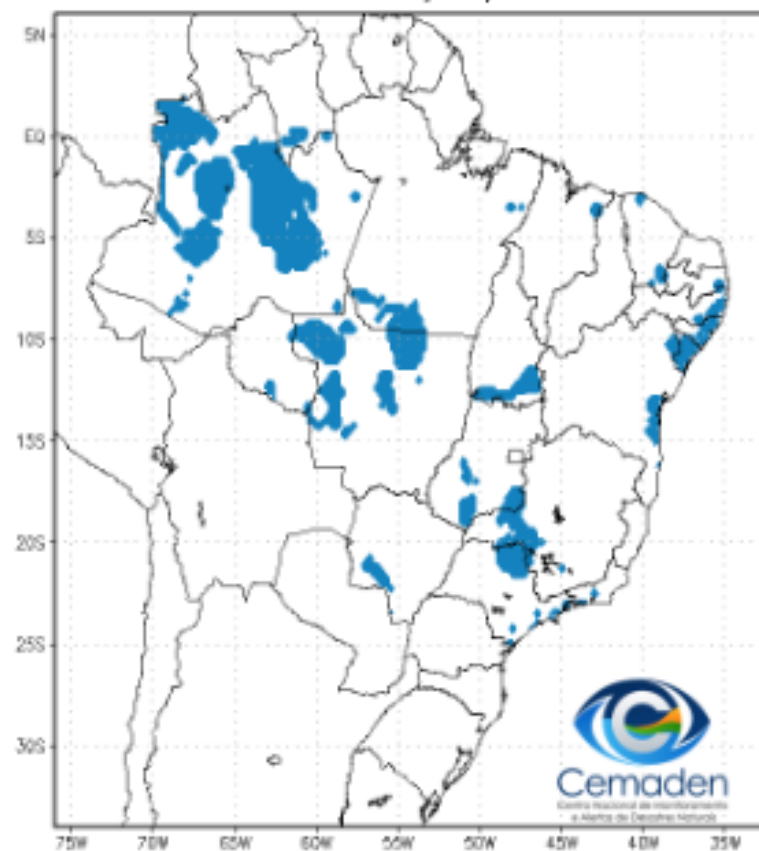


SITUAÇÃO DA ESTAÇÃO CHUVOSA

Climatologia da Precipitação (1999–2022)
Superior 3 mm/dia em 4 de 5 dias Período: 19/10

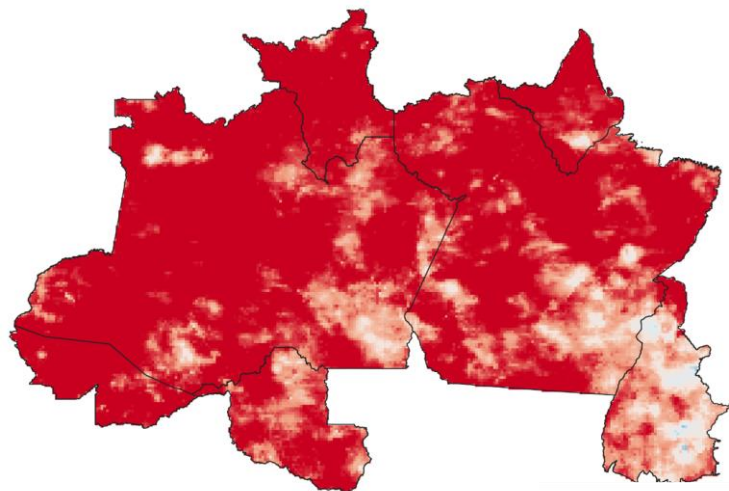


Precipitação Superior 3 mm/dia em 4 de 5 dias
Período: 19/10/2023

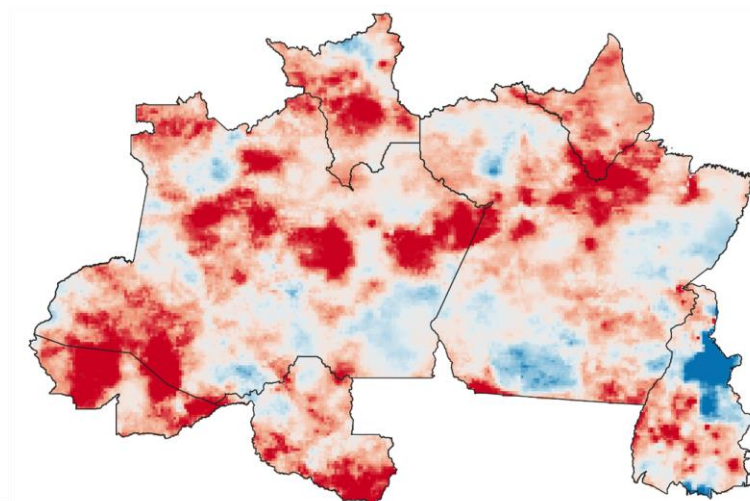


SPI: OUTUBRO 2023

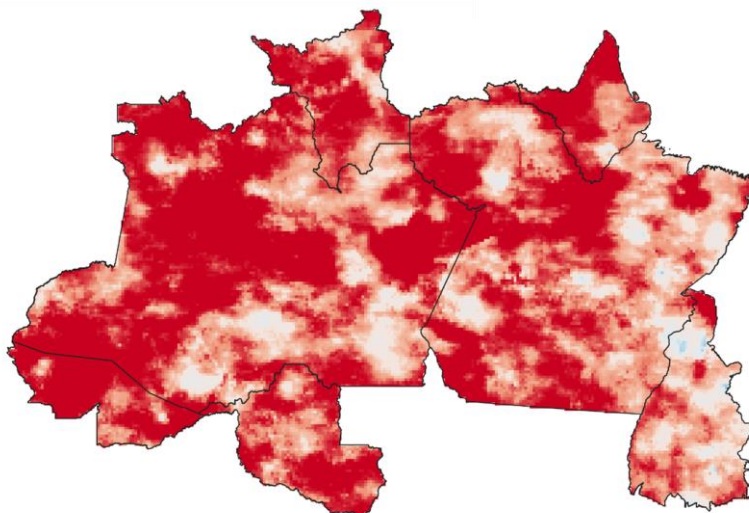
SPI03



SPI12



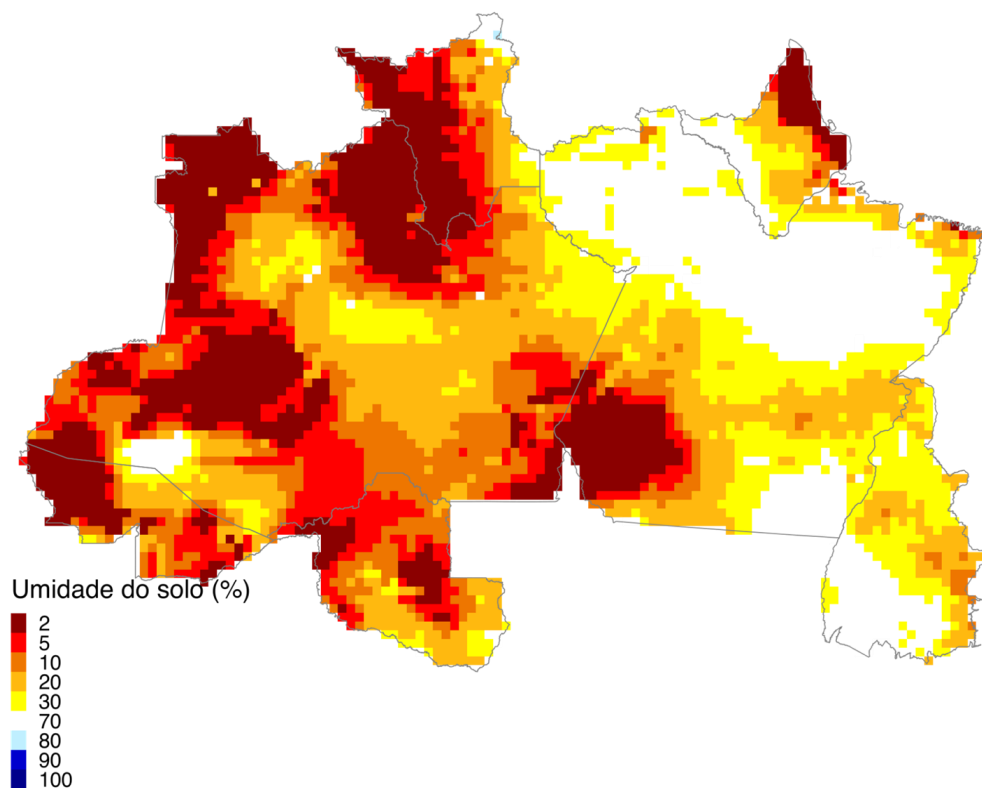
SPI06



UMIDADE DO SOLO: OUTUBRO 2023

Umidade do solo até 1 m (percentual da saturação)

16 Outubro 2023



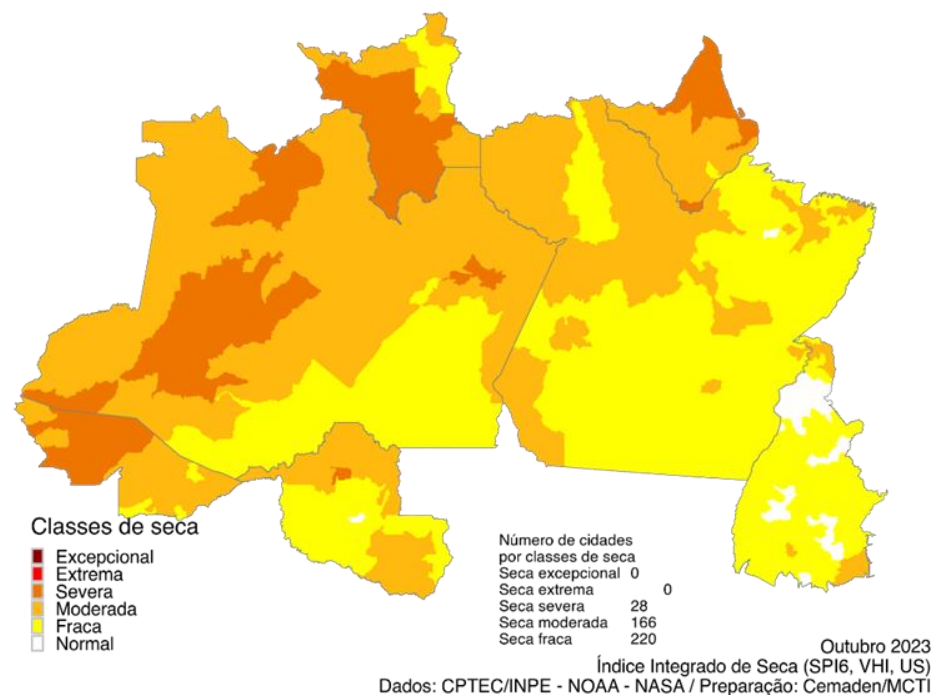
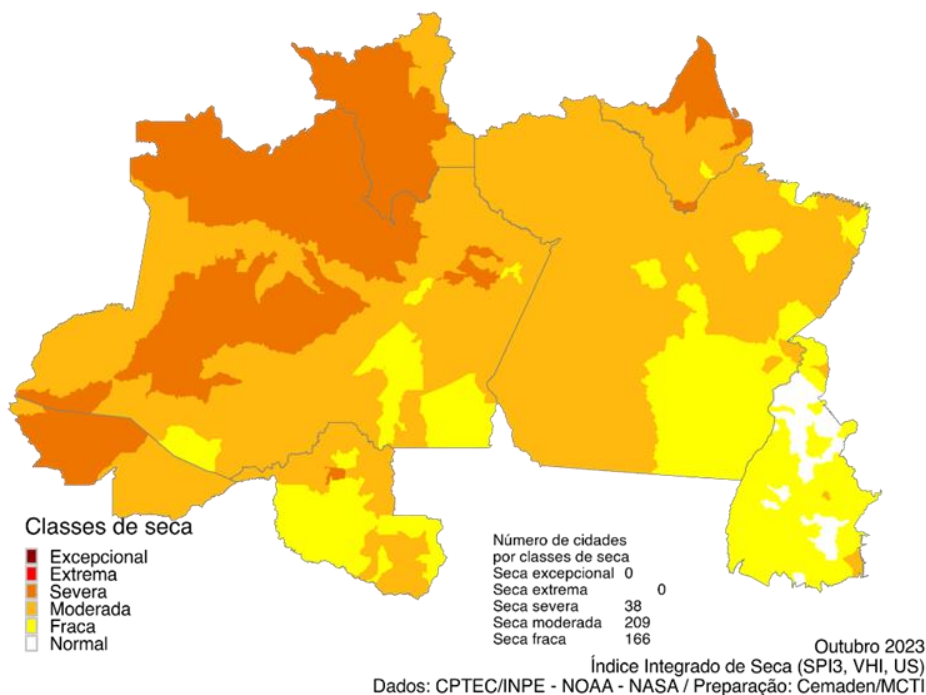
Seca: Umidade < 30

ÍNDICE INTEGRADO DE SECA - IIS

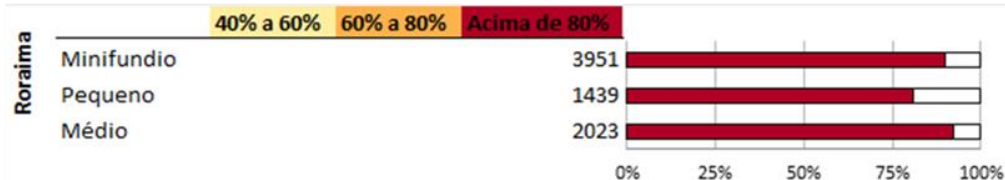
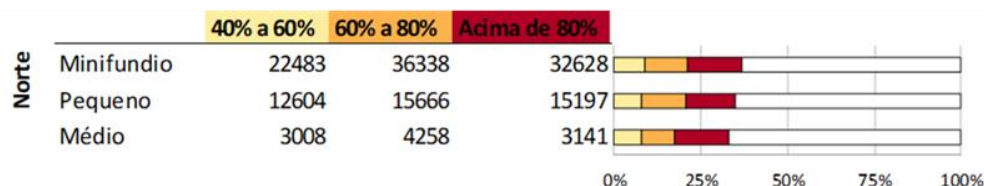
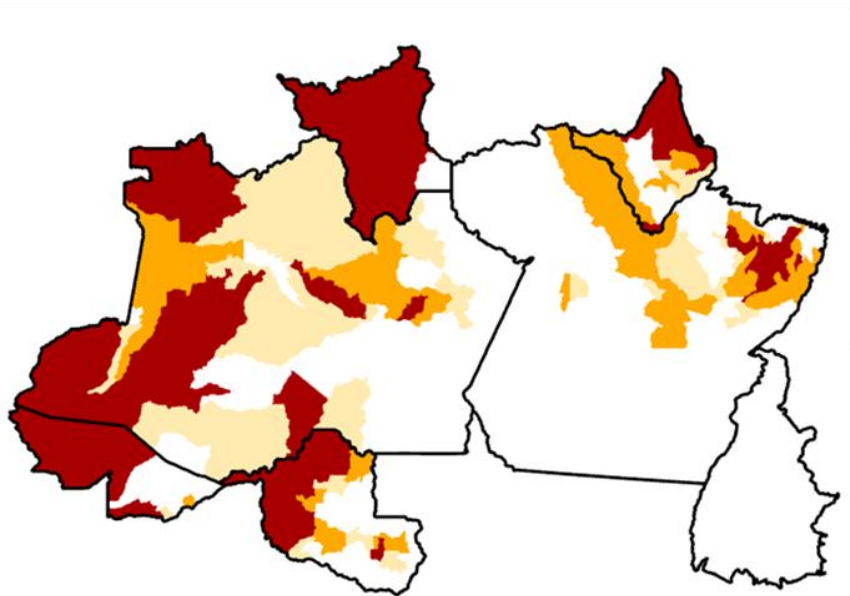
(SPI3 E 6 + VHI + AUS): OUTUBRO/2023

IIS - 3 meses

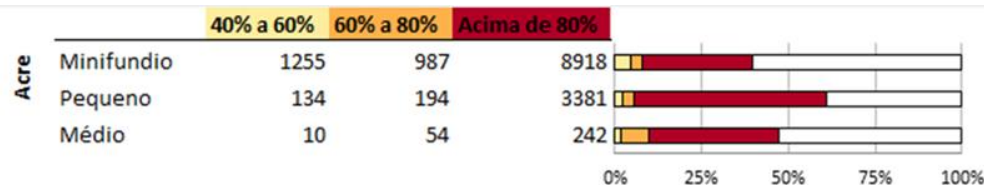
IIS - 6 meses



ÁREAS DE PASTAGENS E AGRÍCOLAS AFETADAS PELA SECA



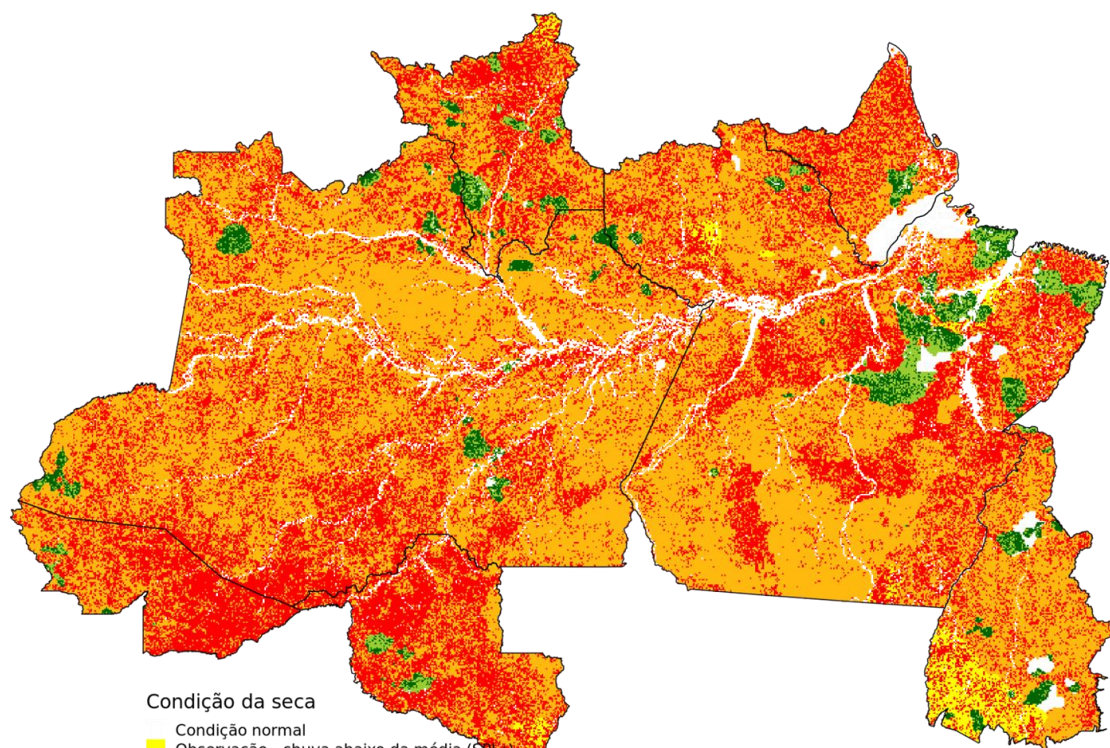
Norte	UF	40% a 60	60% a 80%	Acima 80%
	AC	1	1	12
	AM	15	12	14
	AP	3	3	6
	PA	13	20	22
	RO	8	7	10
	RR			13
	TO	5	7	2



PROPAGAÇÃO INCREMENTAL DAS CONDIÇÕES DE SECA (PICS)

(SPI1, US, VHI): OUTUBRO/2023

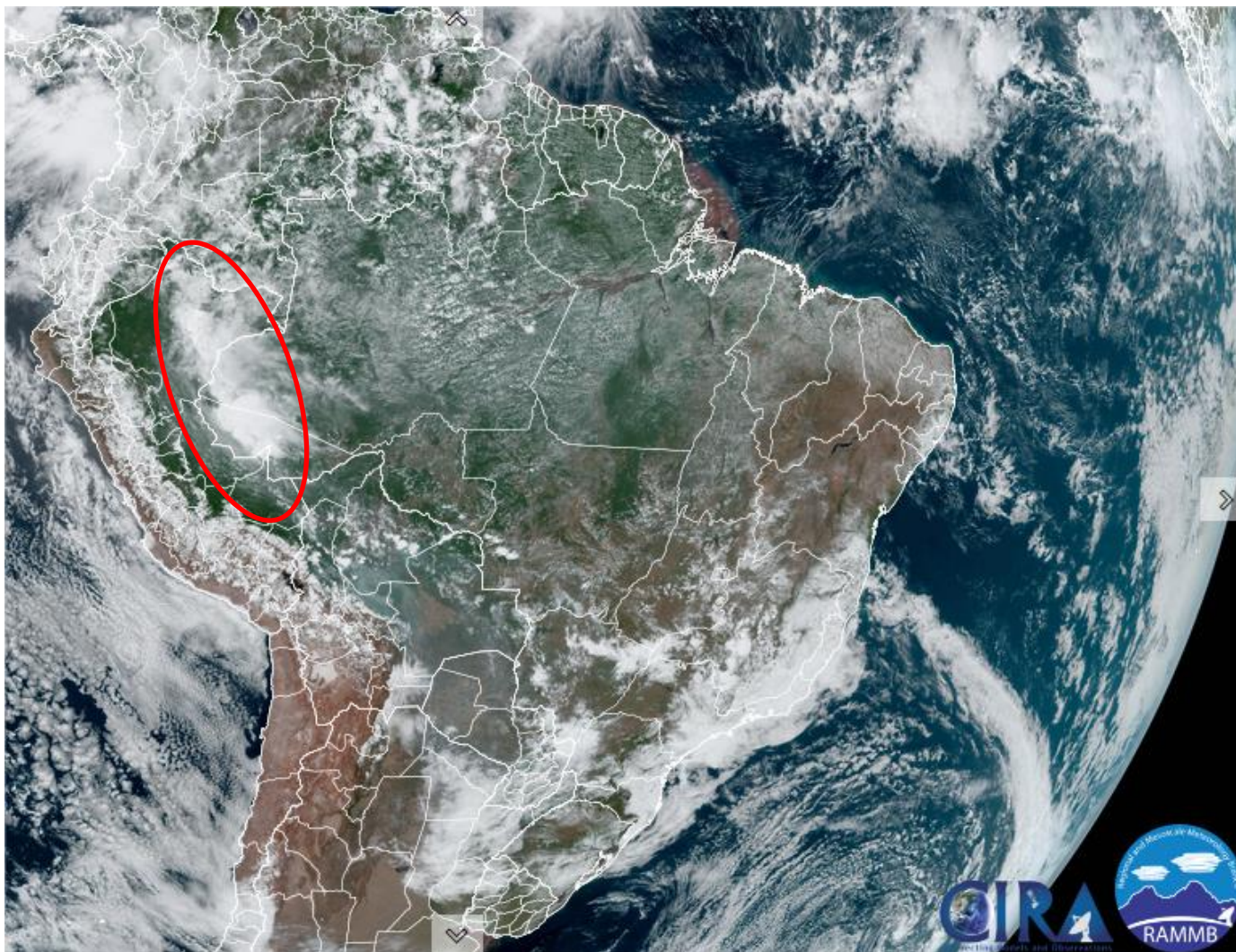
Propagação Incremental das Condições de Seca (PICS)
Outubro 2023



Condição da seca

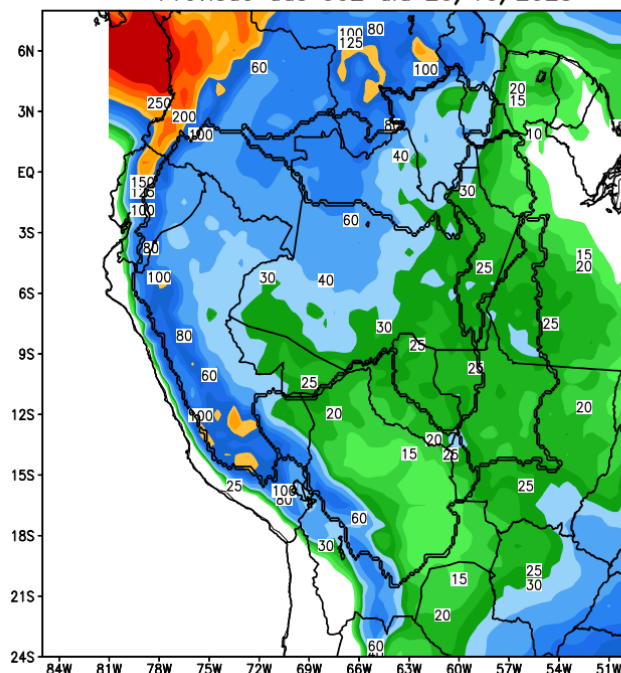
- Condição normal
- Observação - chuva abaixo da média (SPI ↓)
- Atenção - chuva abaixo da média e stress hídrico no solo (SPI ↓ & US ↓)
- Alerta de seca - chuva abaixo da média e stress vegetativo (SPI ↓ & VHI ↓)
- Stress vegetativo & tendência de melhora na chuva (VHI ↓ & SPI ↑)
- Em recuperação (SPI ↑)

Situação Meteorológica Atual

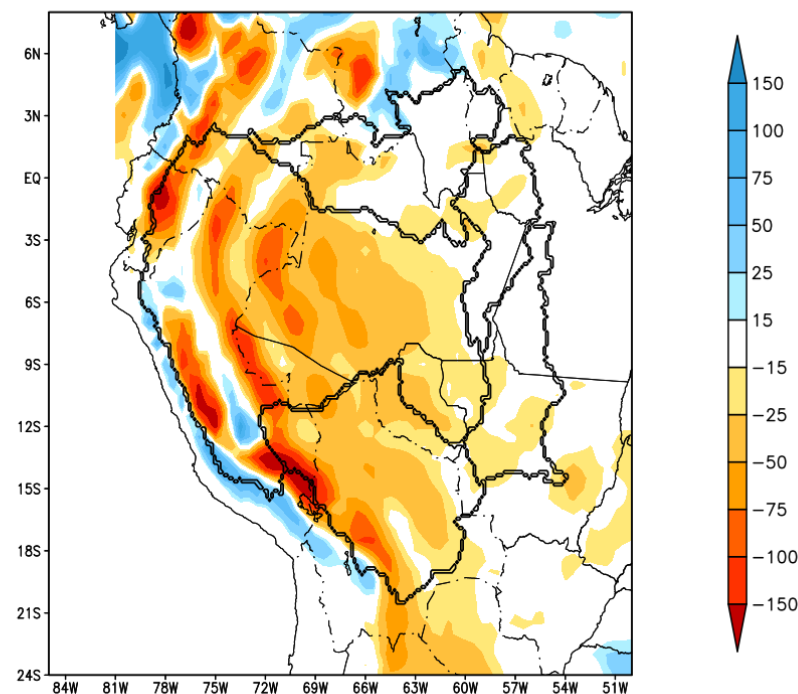


Previsão de chuva próximas duas semanas

GEFS / BRASIL_NORTE
Precipitação acumulada 14 dias (mm)
Previsão das 00Z dia 20/10/2023



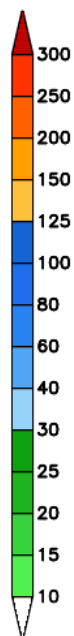
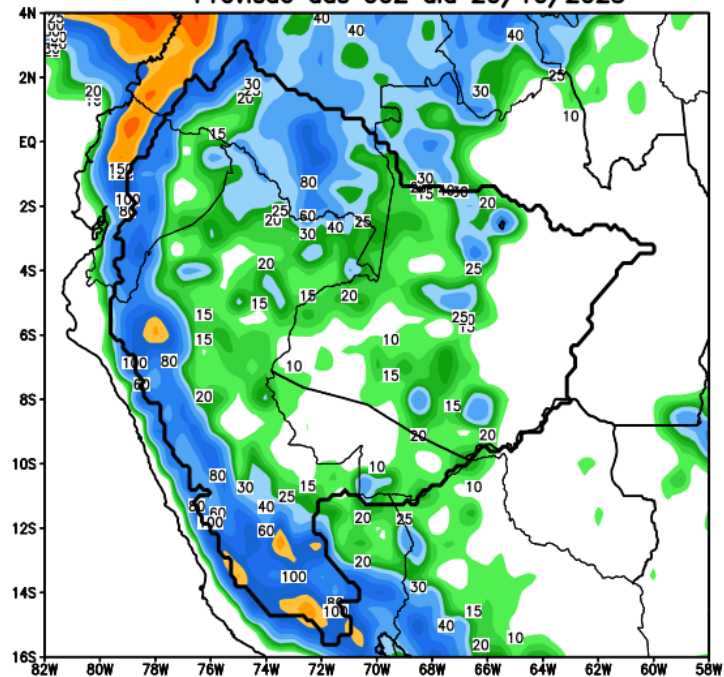
Anomalia de Precipitação BR_NORTE (mm)
Período: 2023102000 a 2023110300



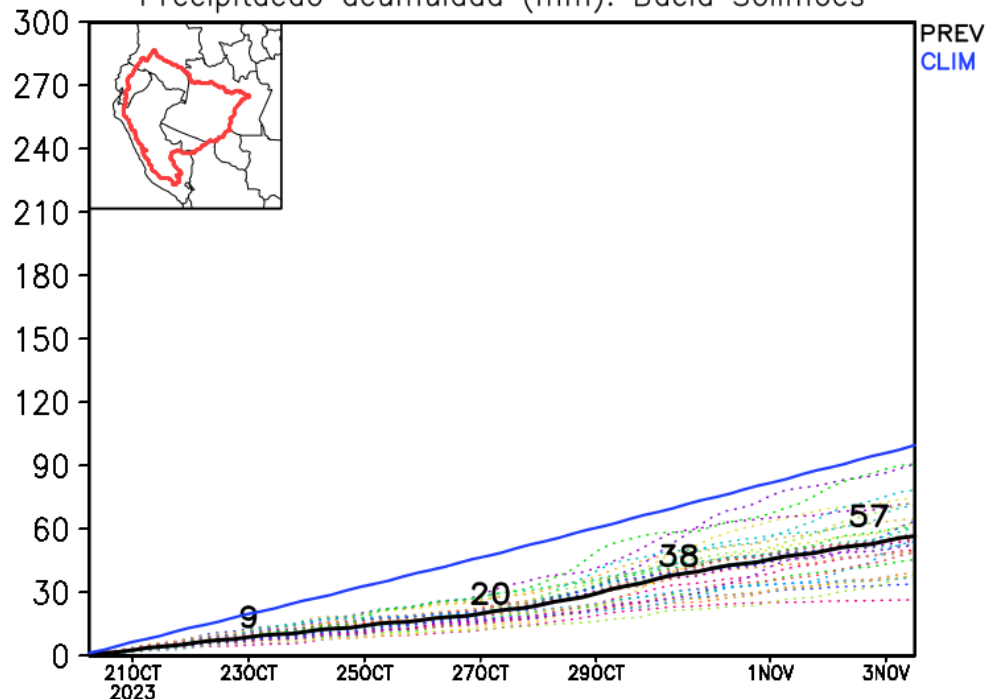
Previsão de chuva próximas duas semanas

RIO SOLIMÕES

GEFS_BC / Bacia do Rio Solimões
Prec. acumulada com correcao de vies em 14 dias (mm)
Previsao das 00Z dia 20/10/2023



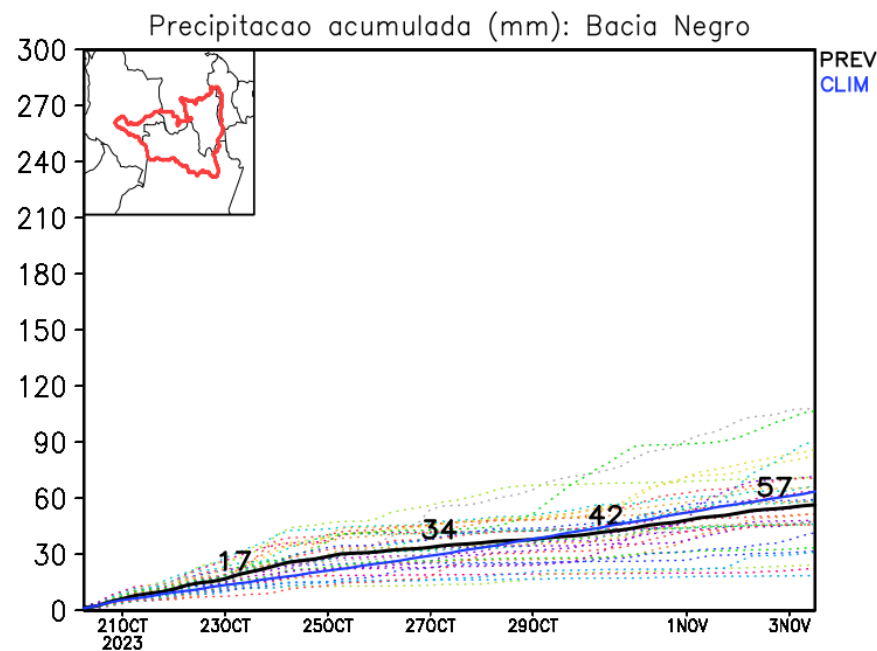
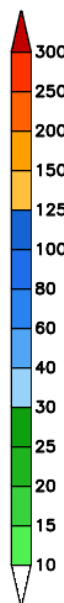
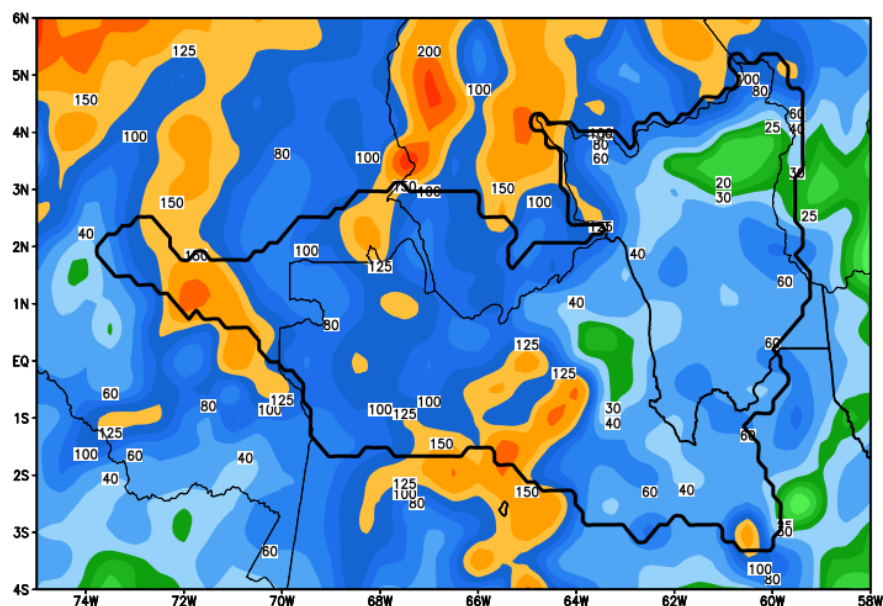
Precipitacao acumulada (mm): Bacia Solimoes



Previsão de chuva próximas duas semanas

RIO NEGRO

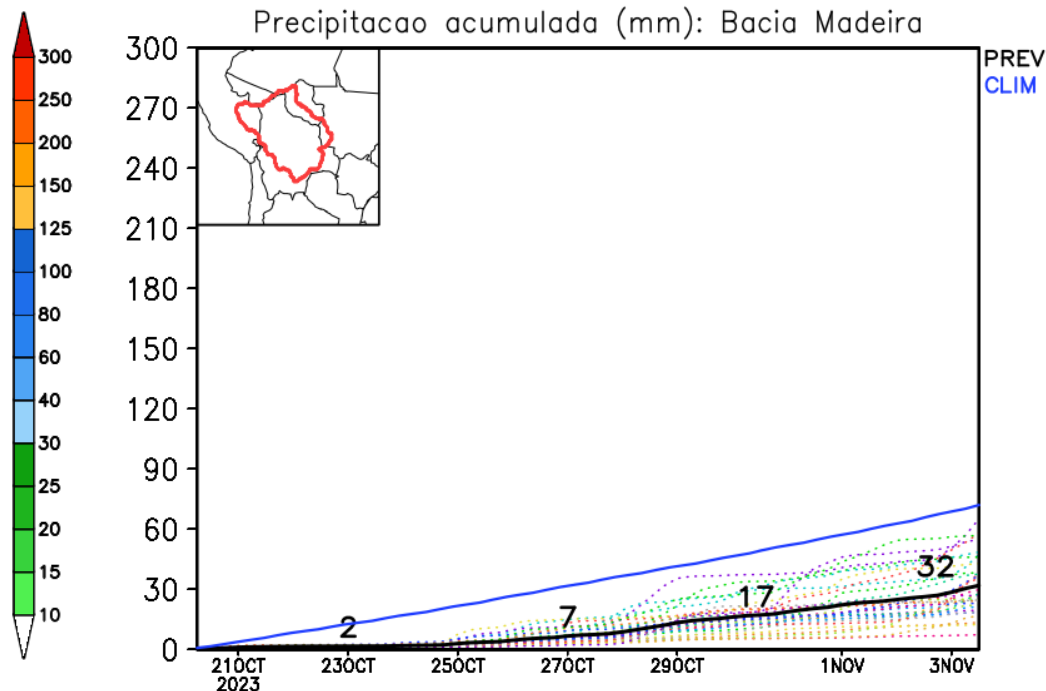
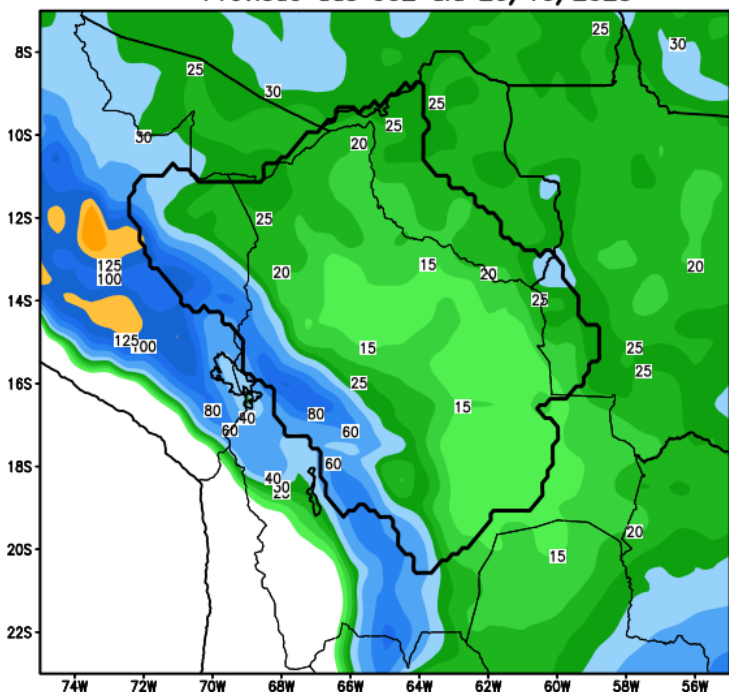
GEFS_BC / Bacia do Rio Negro
Prec. acumulada com correcao de vies em 14 dias (mm)
Previsao das 00Z dia 20/10/2023



Previsão de chuva próximas duas semanas

RIO MADEIRA

GEFS / Bacia do Rio Madeira
Precipitação acumulada em 14 dias (mm)
Previsão das 00Z dia 20/10/2023



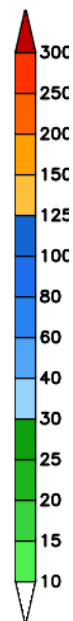
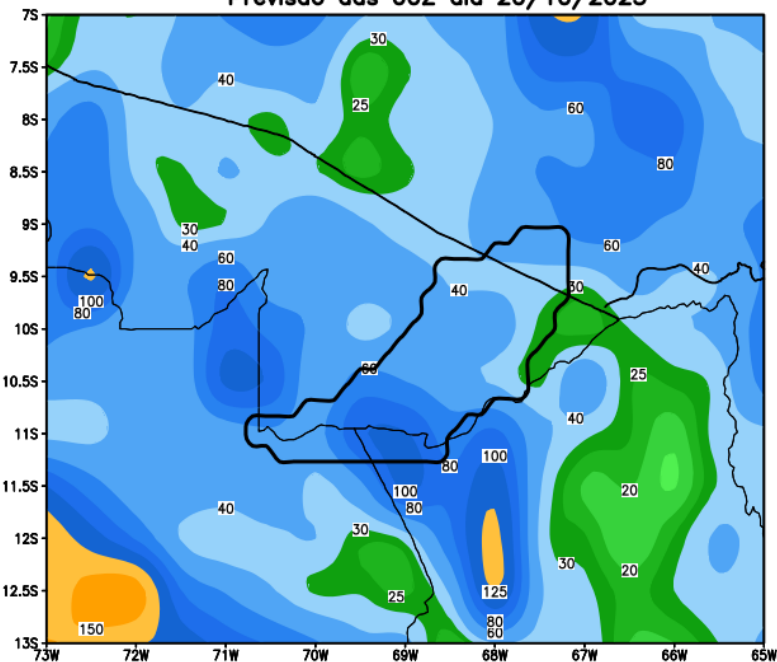
Previsão de chuva próximas duas semanas

RIO ACRE

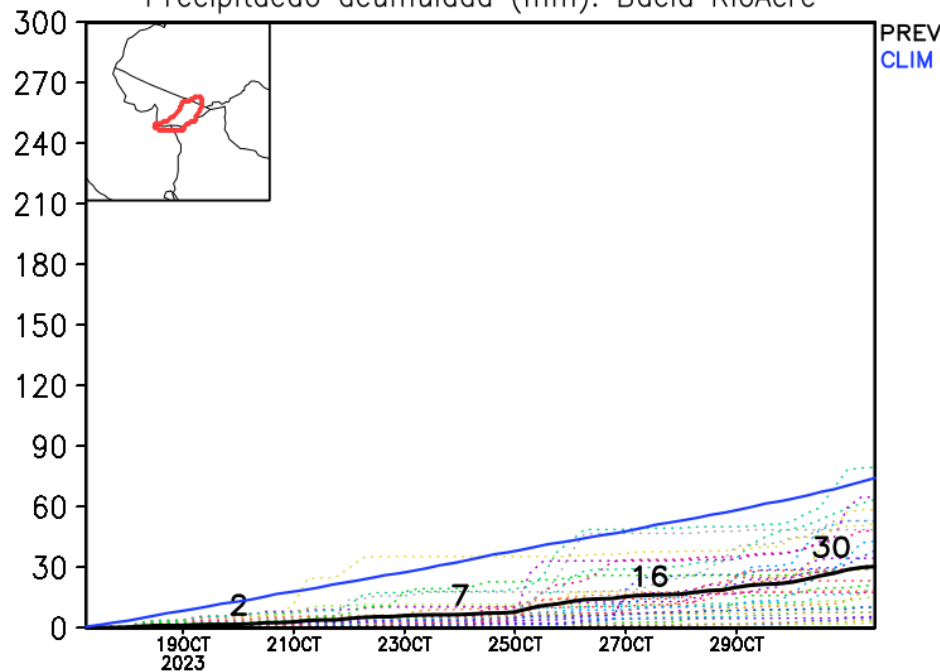
GEFS_BC / Bacia do Rio Acre

Prec. acumulada com correcao de vies em 14 dias (mm)

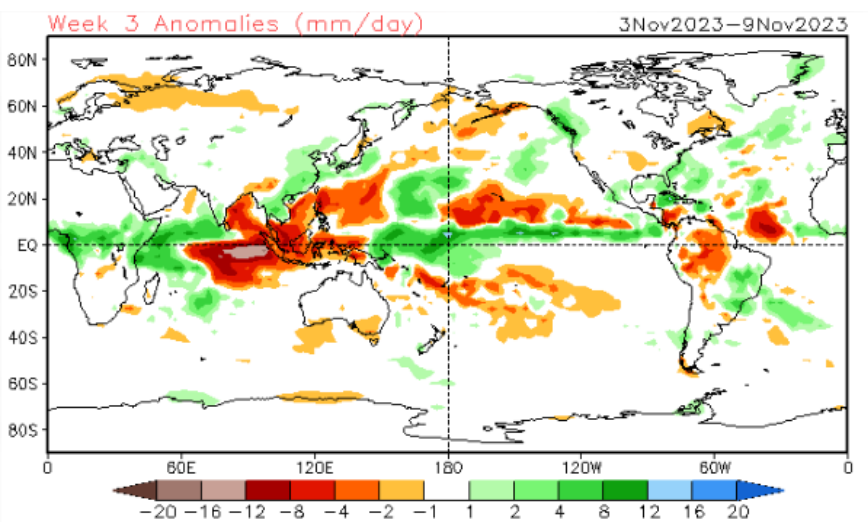
Previsao das 00Z dia 20/10/2023



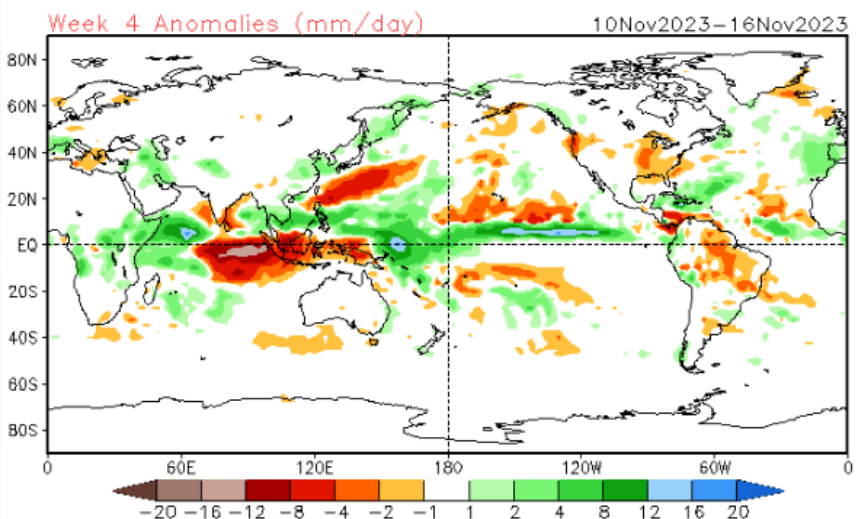
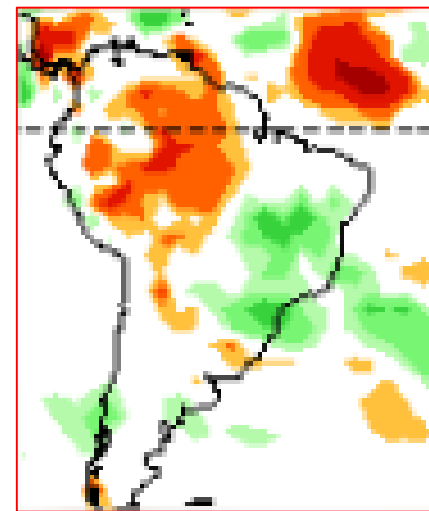
Precipitacao acumulada (mm): Bacia RioAcre



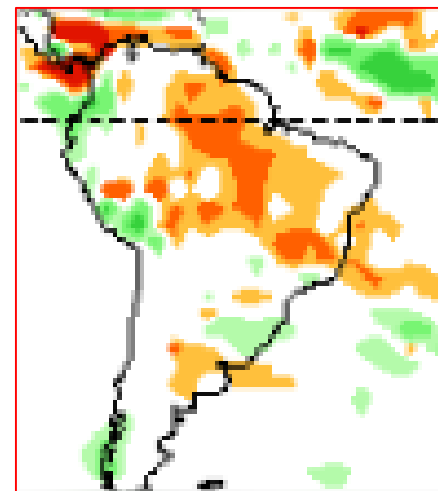
Tendência 3a e 4a semanas



03-09/11

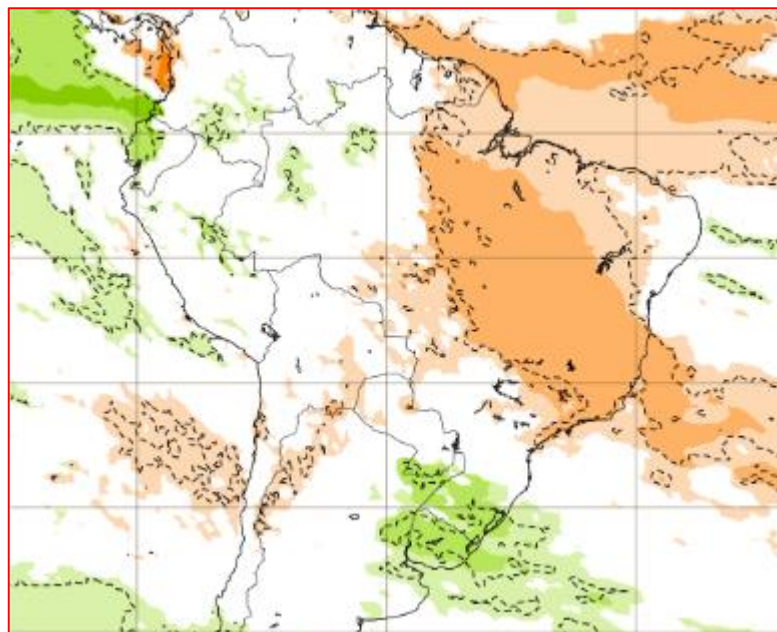


10-16/11

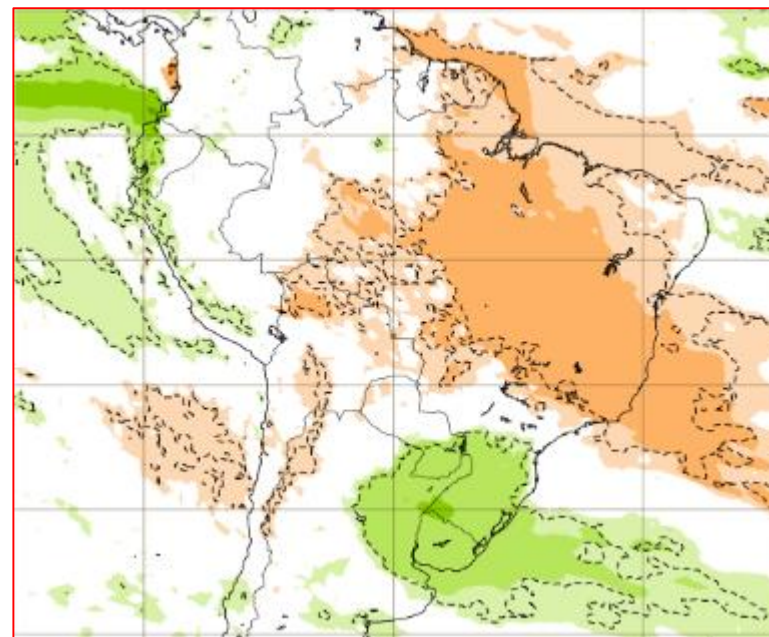


Tendência para 3ª e 4ª semanas

06-13 NOVEMBRO

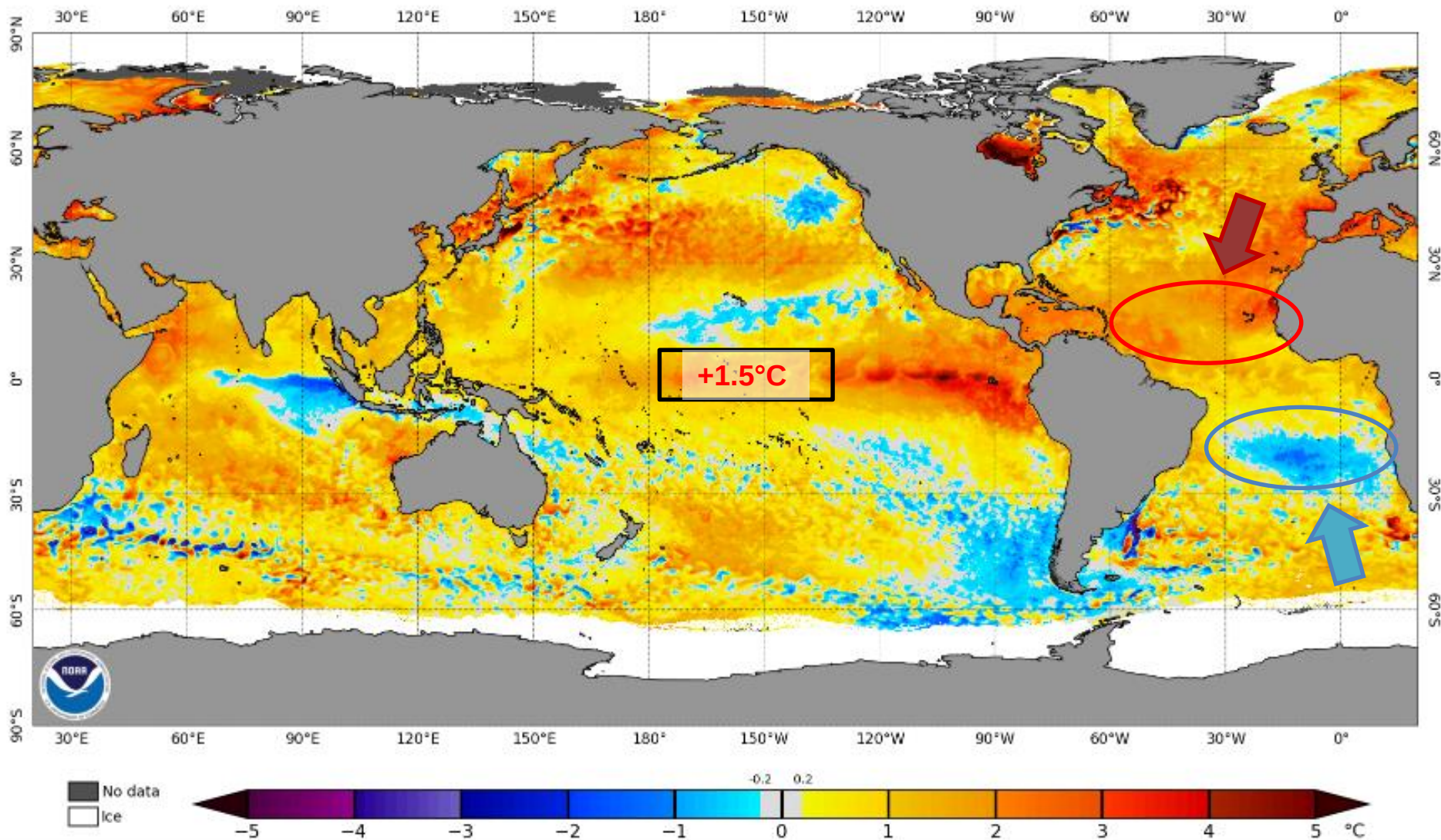


13-20 NOVEMBRO

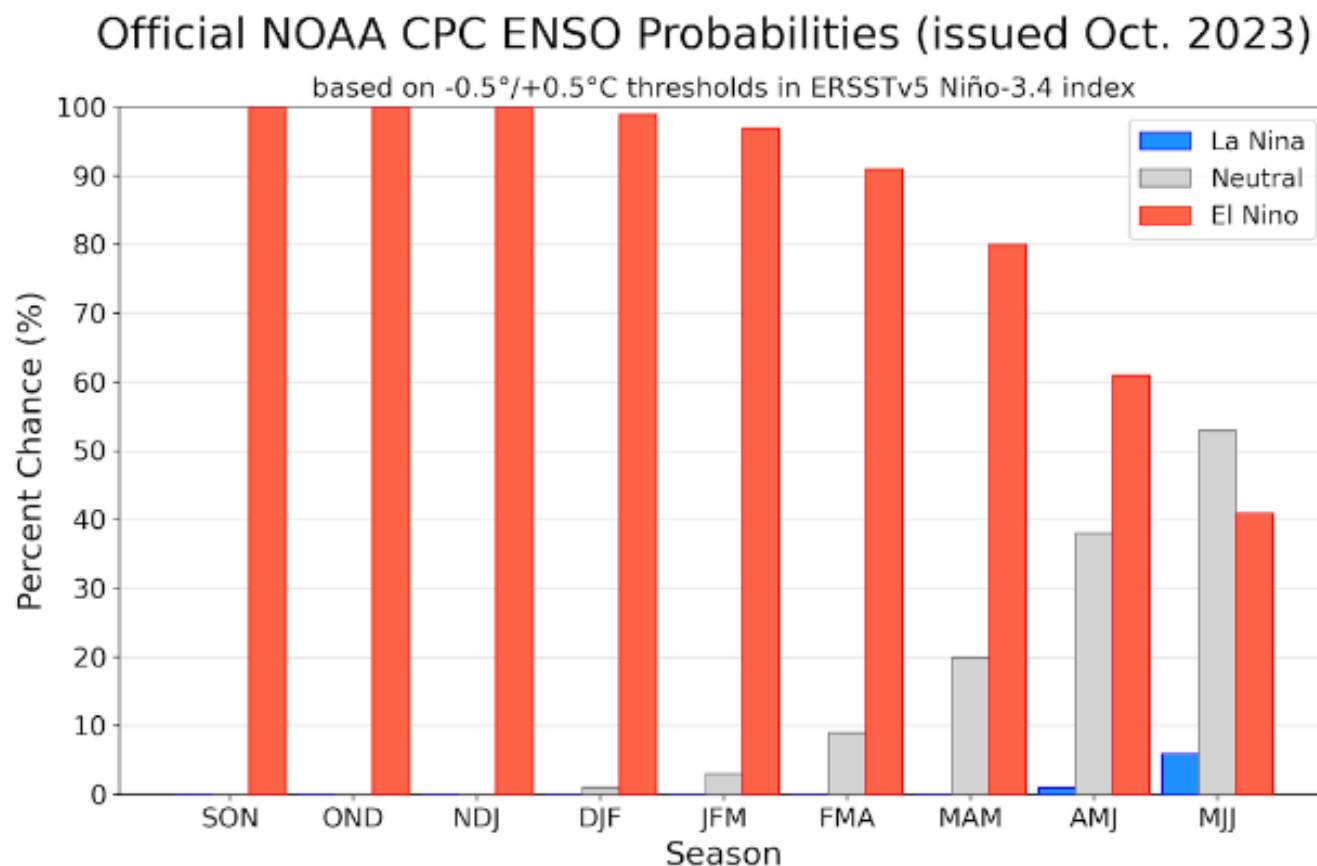


Status Atual: El Niño

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

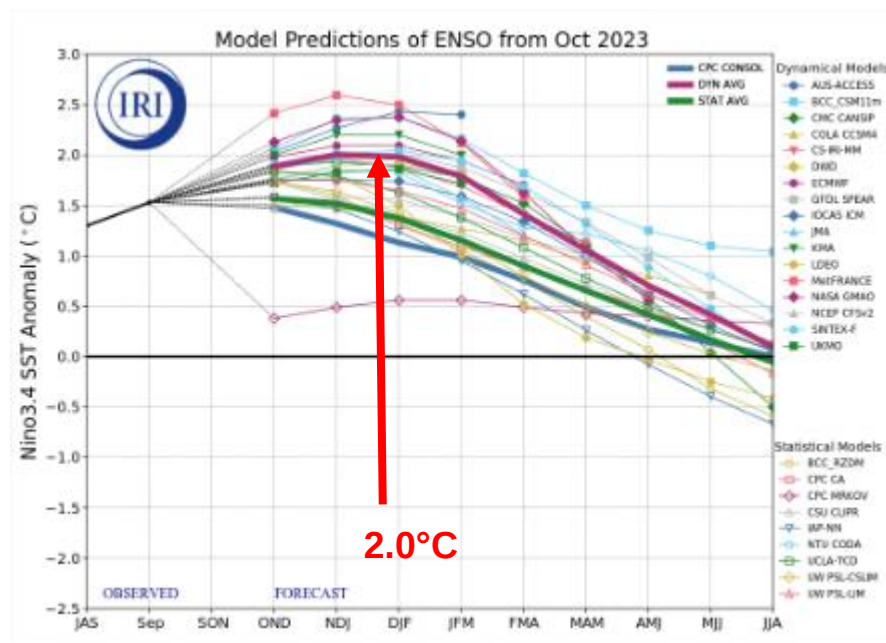


Previsão do “ENSO”

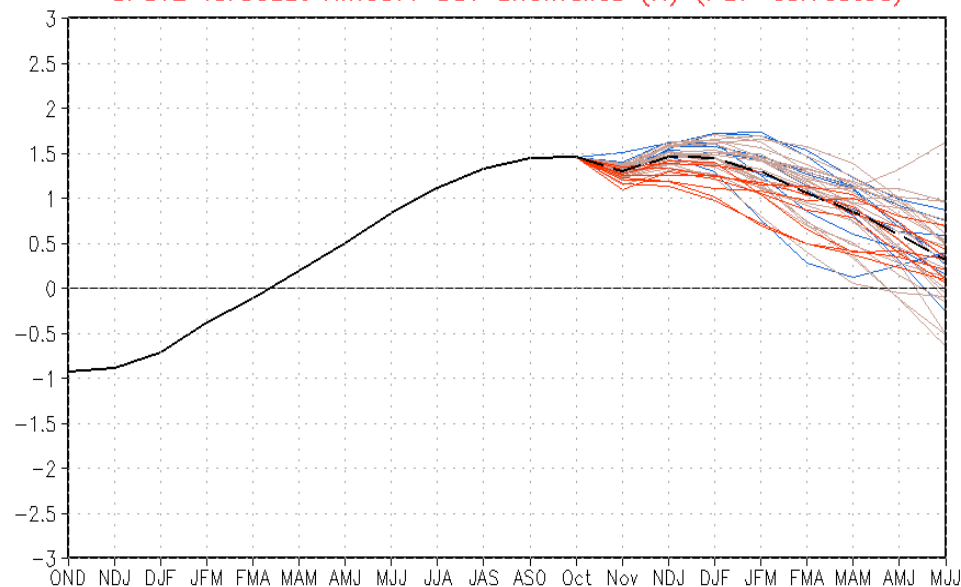


NOAA/CPC ENSO Forecast Graphic, courtesy of NOAA/CPC

Previsão do “ENSO”

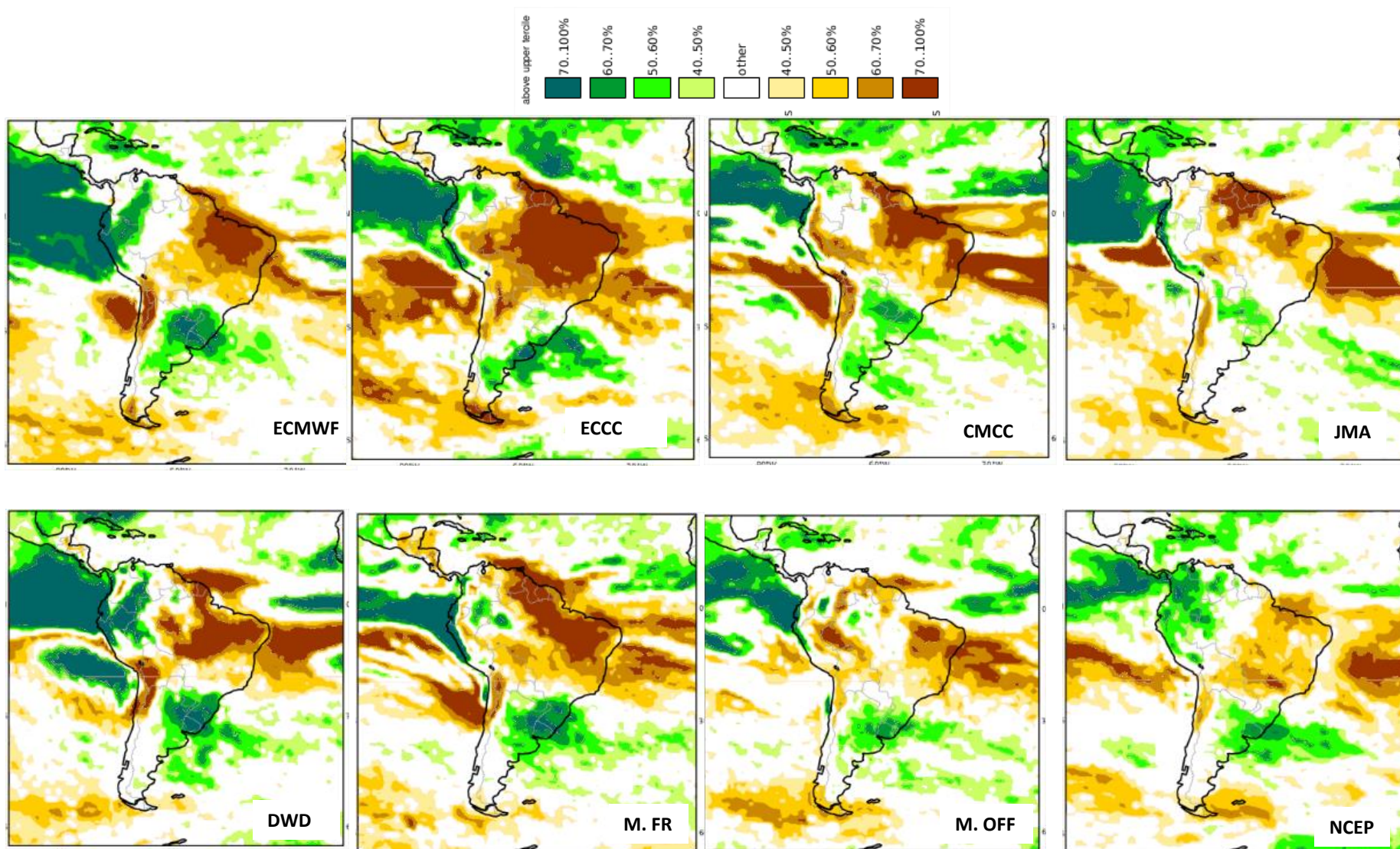


CFSv2 forecast Nino3.4 SST anomalies (K) (PDF corrected)



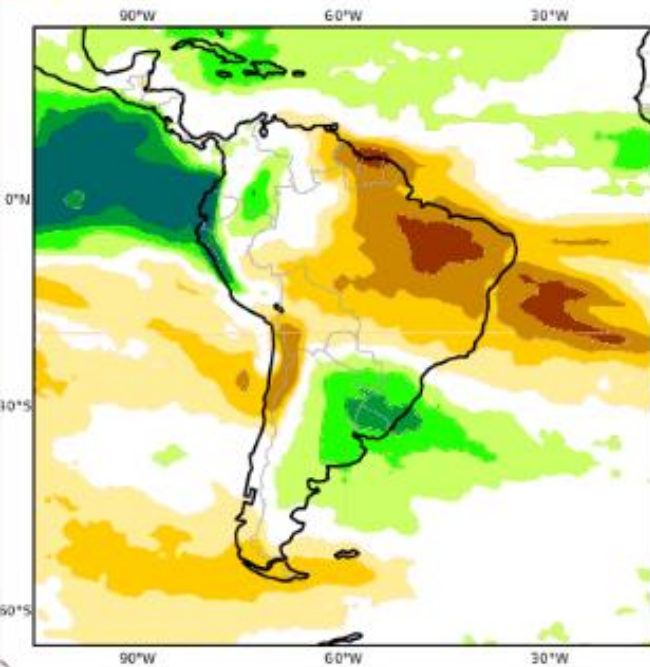
(Climatology base period: 1991–2020)

Previsão Sazonal de Chuva NDJ

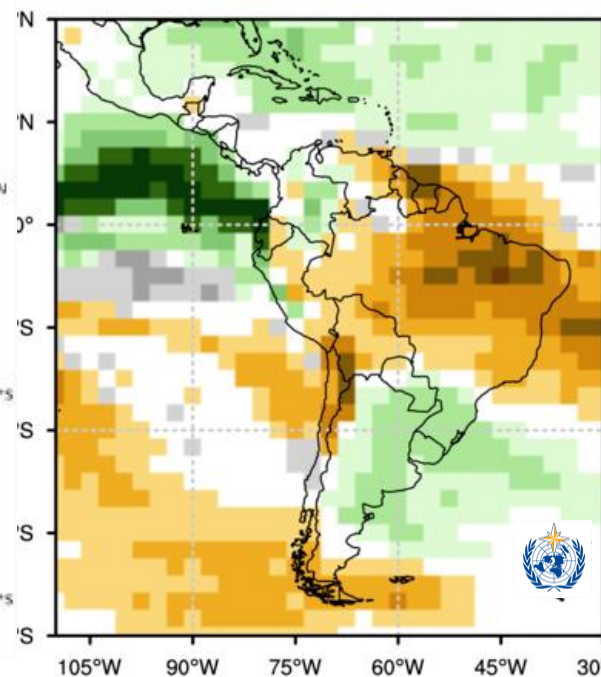


Previsão Sazonal de Chuva Multi-Modelo NDJ

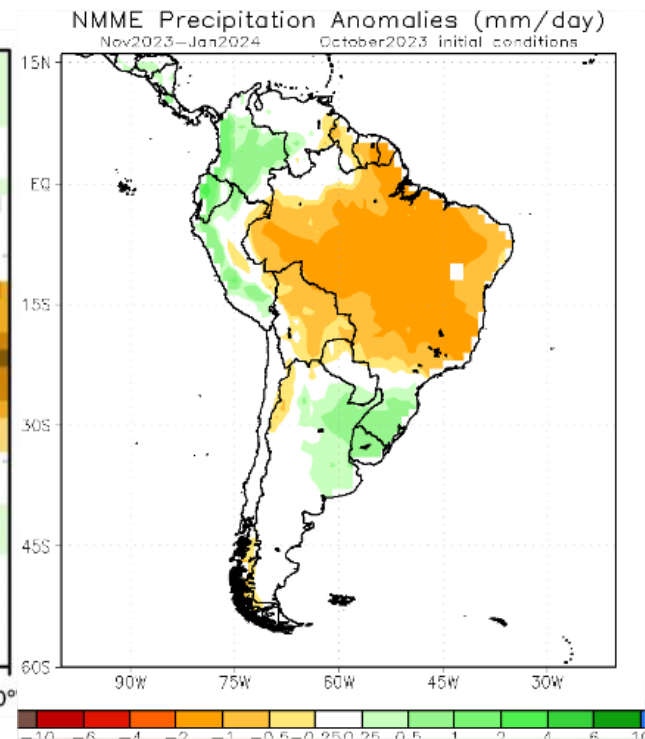
C3S multi-system seasonal forecast
Prob(most likely category of precipitation)
Nominal forecast start: 01/10/23
Unweighted mean



Modelos Europeus



Modelos da Organização
Meteorológica Mundial

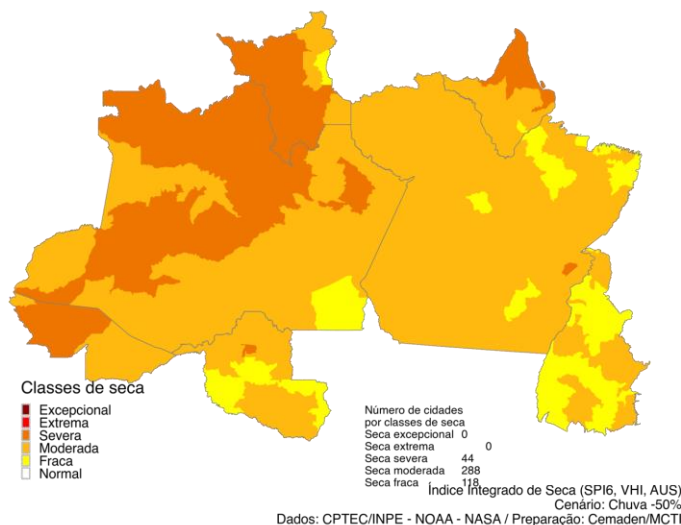


Modelos Americanos

Novembro/23

CHUVA 50% ABAIXO DA MÉDIA

Dezembro/23

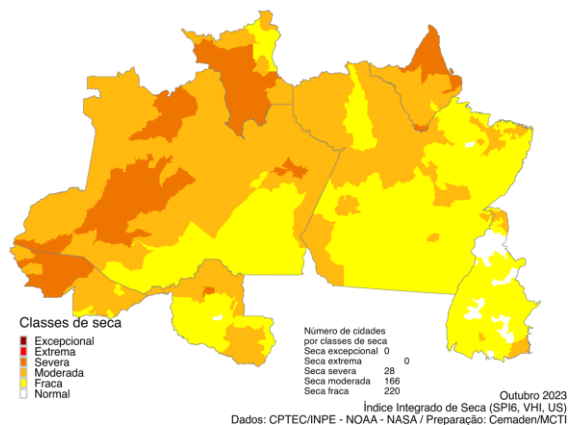
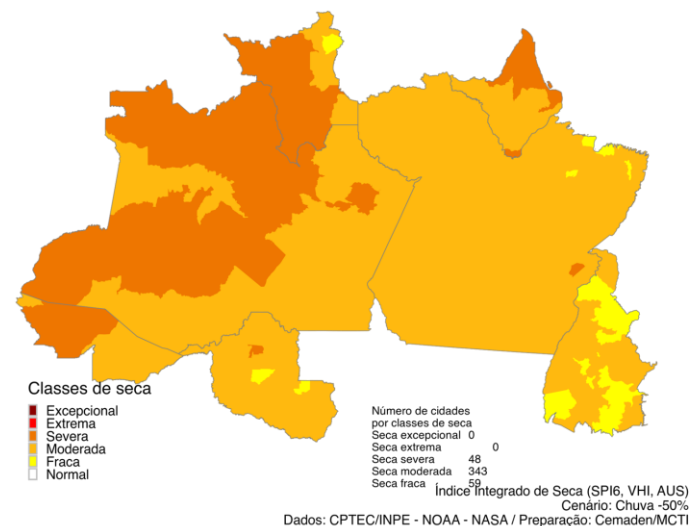


IIS

- Seca Excepcional
- Seca Extrema
- Seca Severa
- Seca Moderada
- Seca Fraca
- Normal

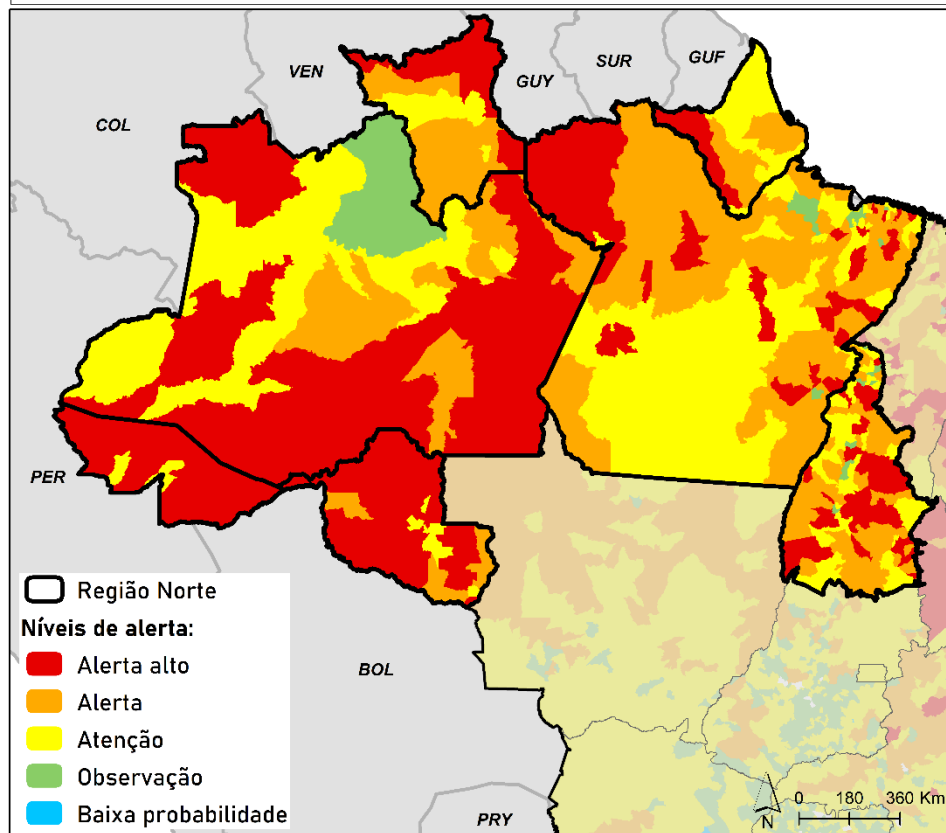
IIS OBSERVADO (IIS6)

Outubro/23



Previsão de probabilidade de fogo - Out-Nov-Dez 2023

Previsão da Probabilidade de Fogo para a região Norte brasileira para o período de Outubro, Novembro e Dezembro de 2023



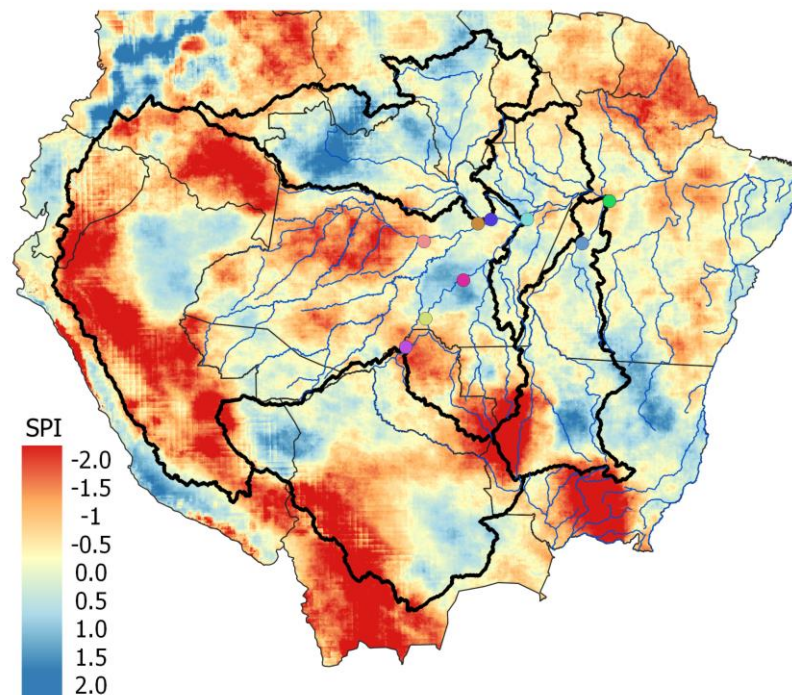
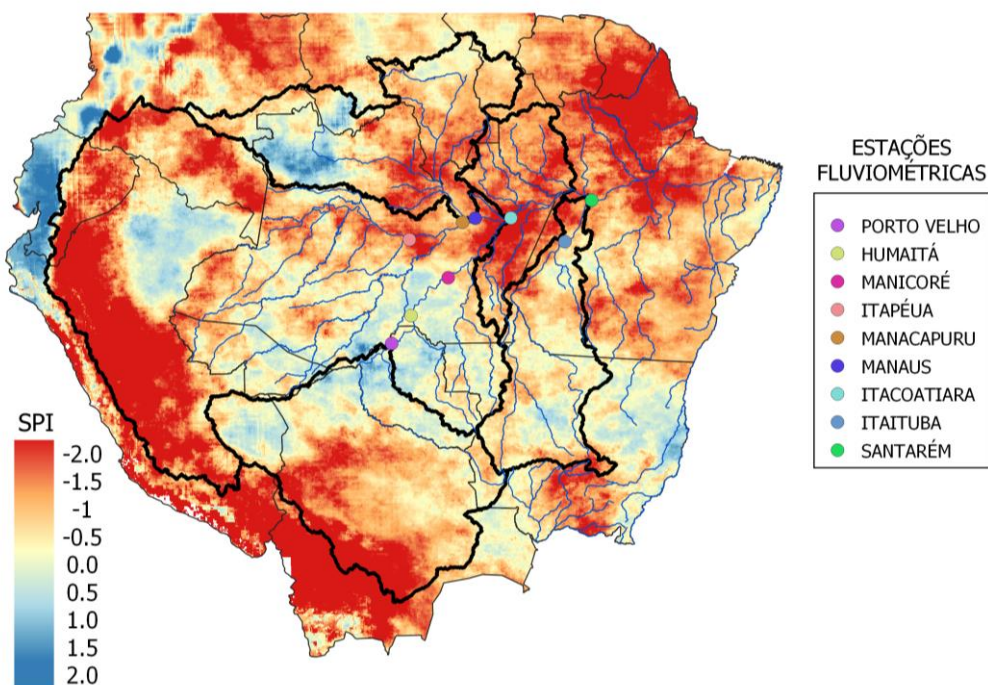
Resultados dos níveis de alerta para os municípios da região Norte:

Nível de Alerta	Número de municípios	Área (km²)
Alerta alto	146	1,555,897
Alerta	140	1,076,021
Atenção	144	1,078,191
Observação	20	140,407
Baixa probabilidade	-	-

Índice Padronizado de Precipitação – SPI (escala 6 e 12 meses)

SPI 6 Setembro 2023

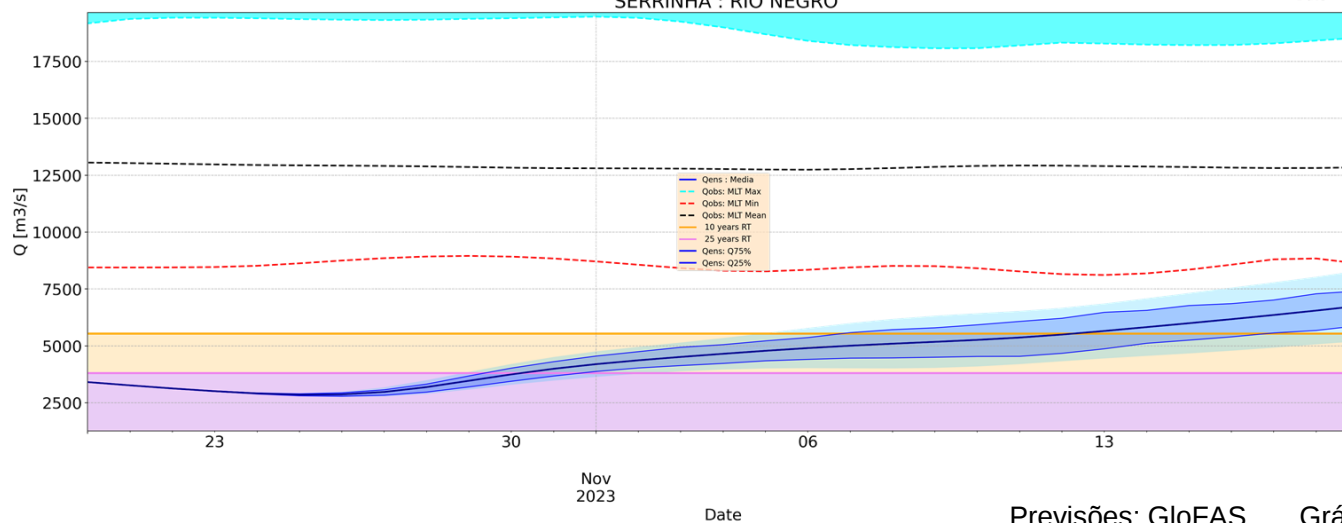
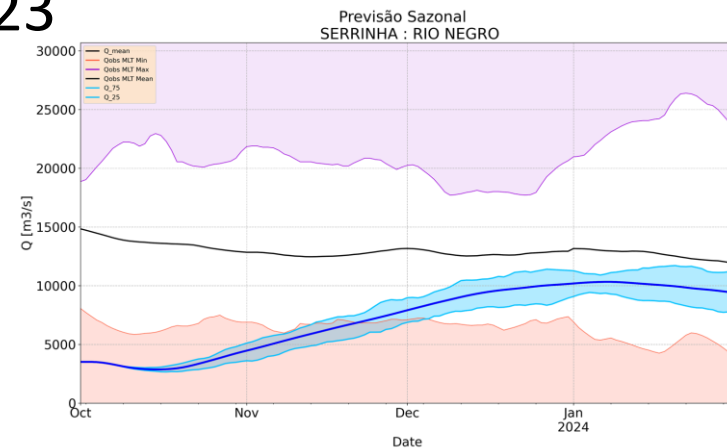
SPI 12 Setembro 2023



Previsão: 20/10/2023



Model Run - 2023-10-20
SERRINHA : RIO NEGRO

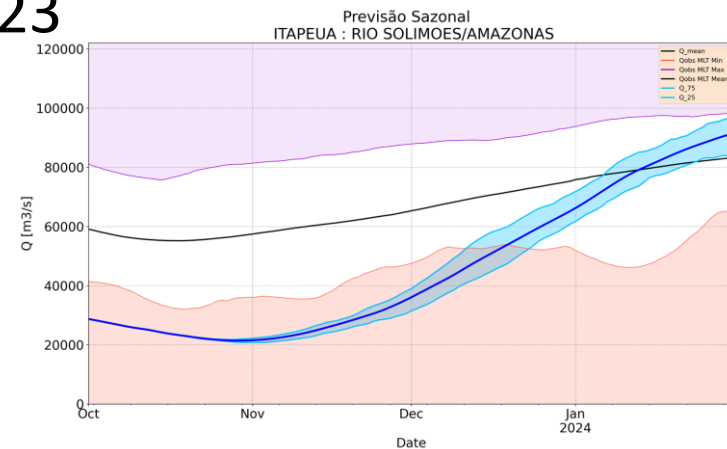
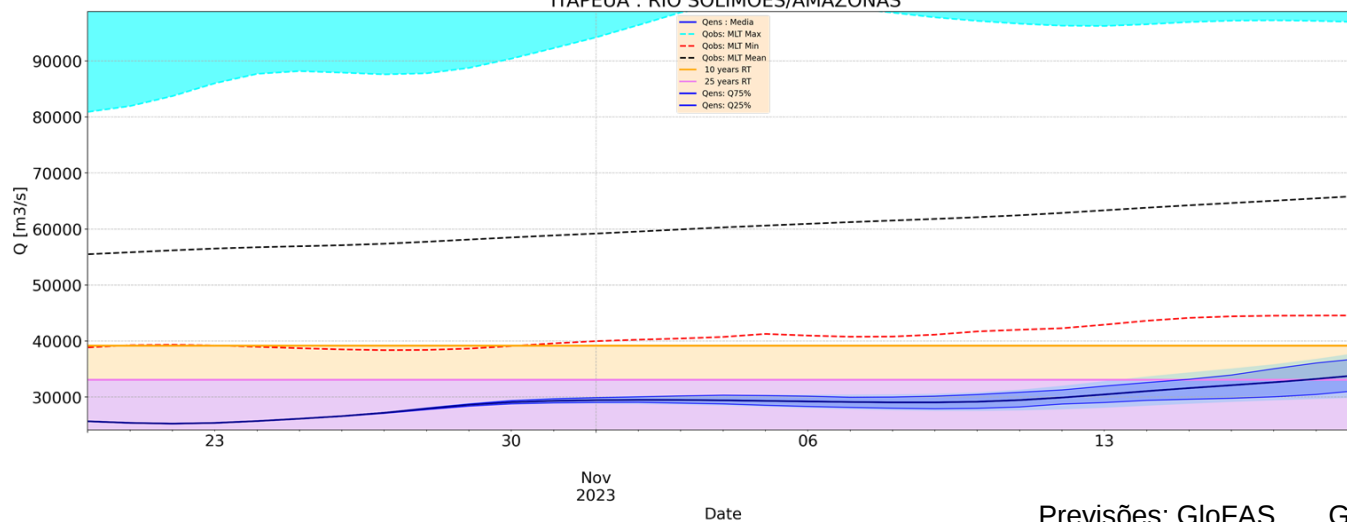


Previsões: GloFAS Gráficos: CEMADEN

Previsão: 20/10/2023



Model Run - 2023-10-20
ITAPEUA : RIO SOLIMÕES/AMAZONAS



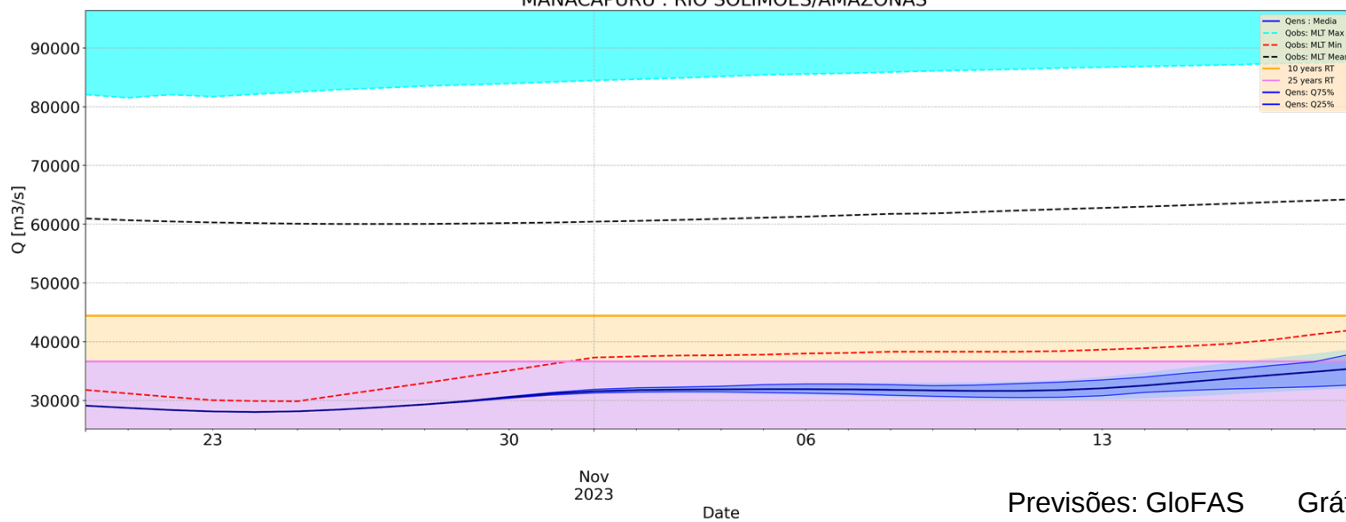
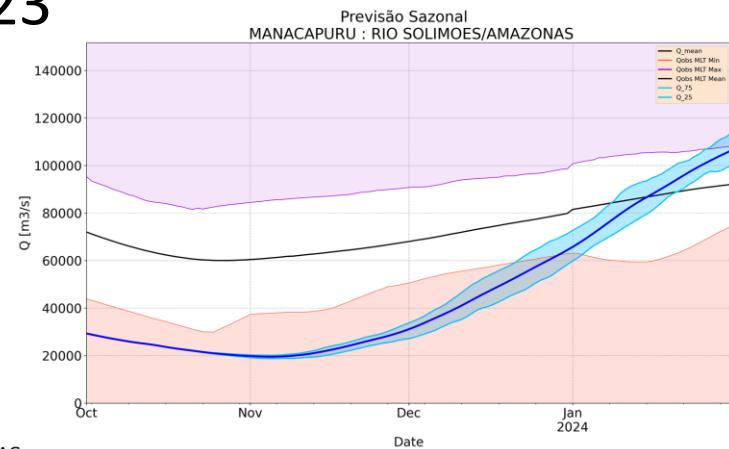
Previsões: GloFAS

Gráficos: CEMADEN

Previsão: 20/10/2023



Model Run - 2023-10-20
MANACAPURU : RIO SOLIMÕES/AMAZONAS



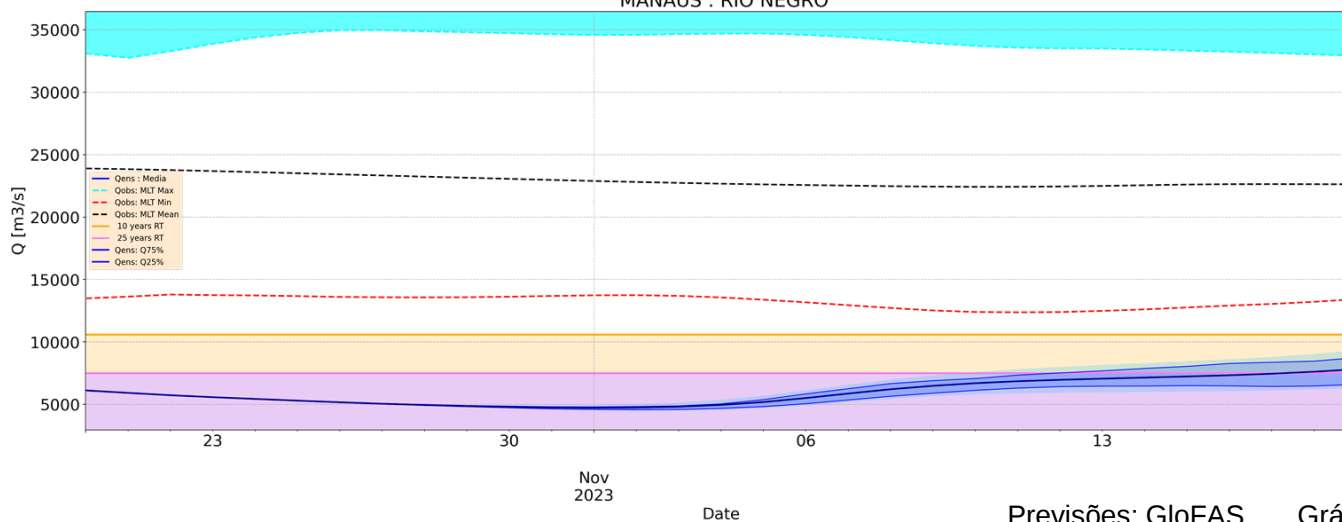
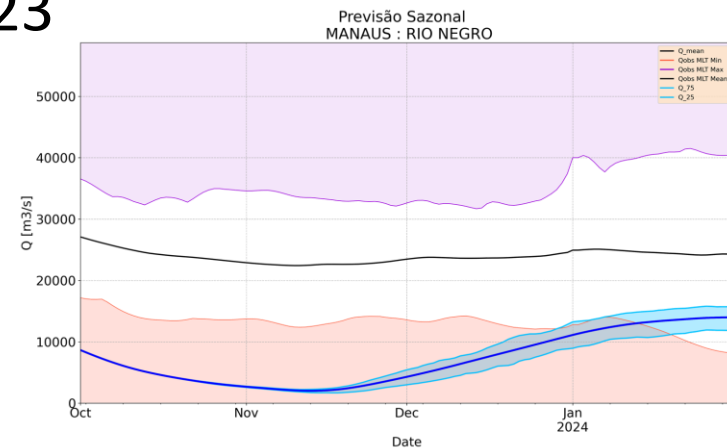
Previsões: GloFAS

Gráficos: CEMADEN

Previsão: 20/10/2023



Model Run - 2023-10-20
MANAUS : RIO NEGRO



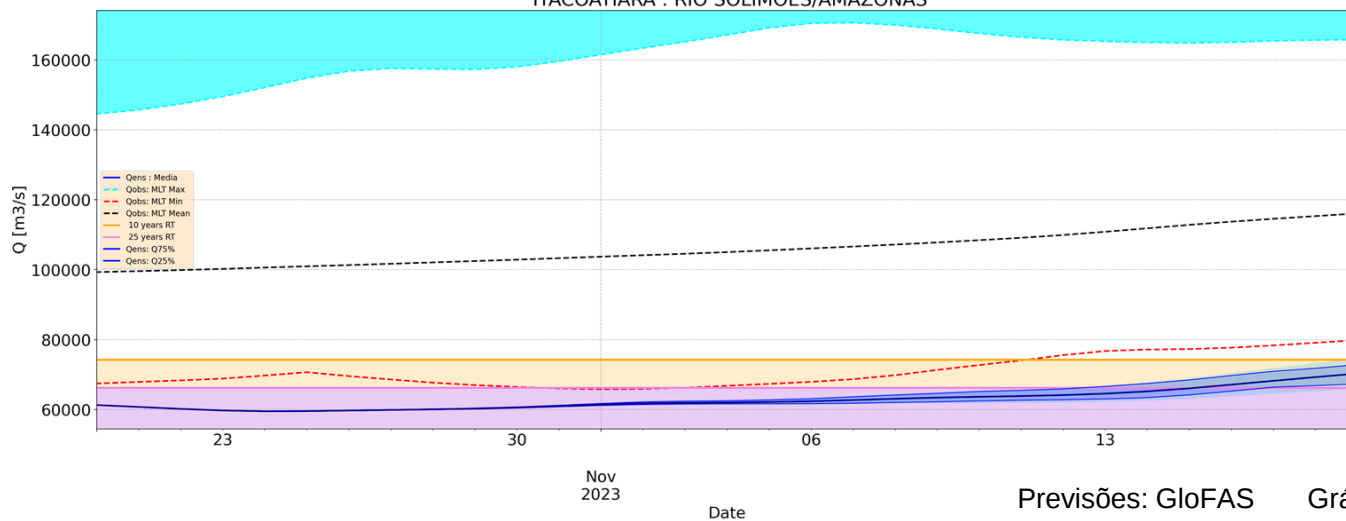
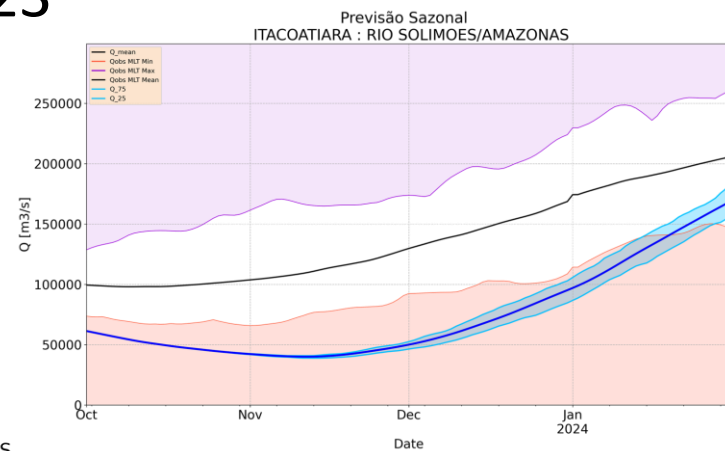
Previsões: GloFAS

Gráficos: CEMADEN

Previsão: 20/10/2023



Model Run - 2023-10-20
ITACOATIARA : RIO SOLIMÕES/AMAZONAS



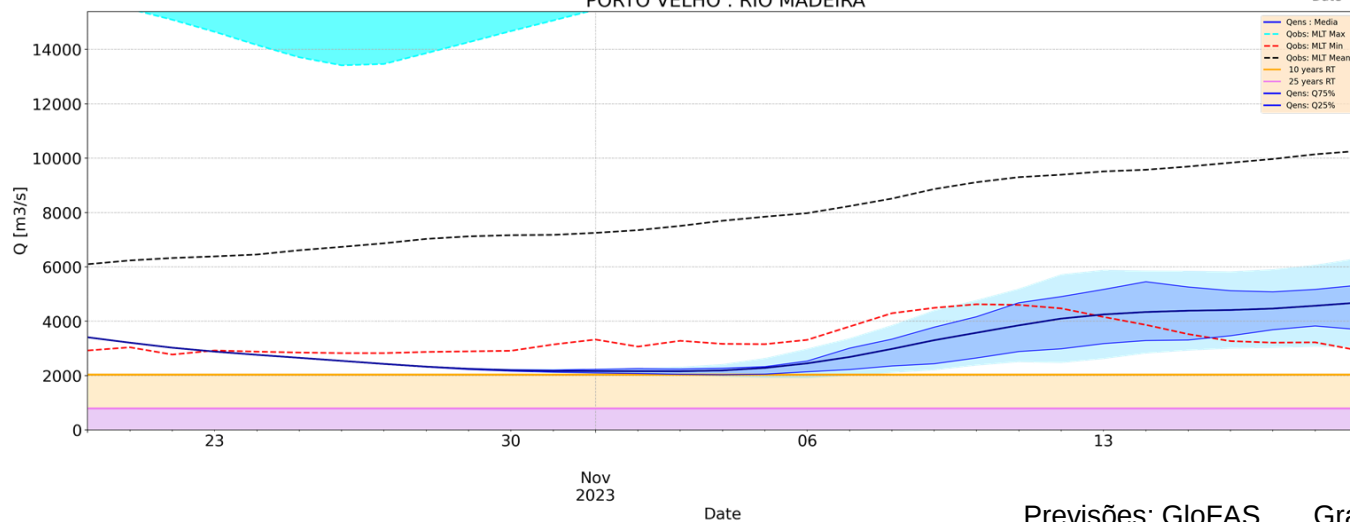
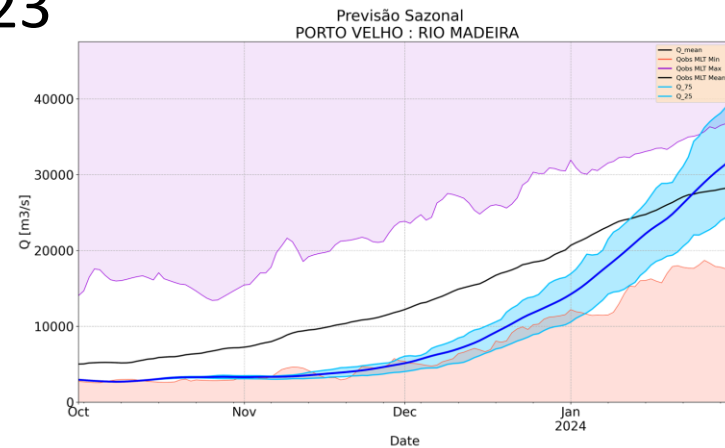
Previsões: GloFAS

Gráficos: CEMADEN

Previsão: 20/10/2023



Model Run - 2023-10-20
PORTO VELHO : RIO MADEIRA



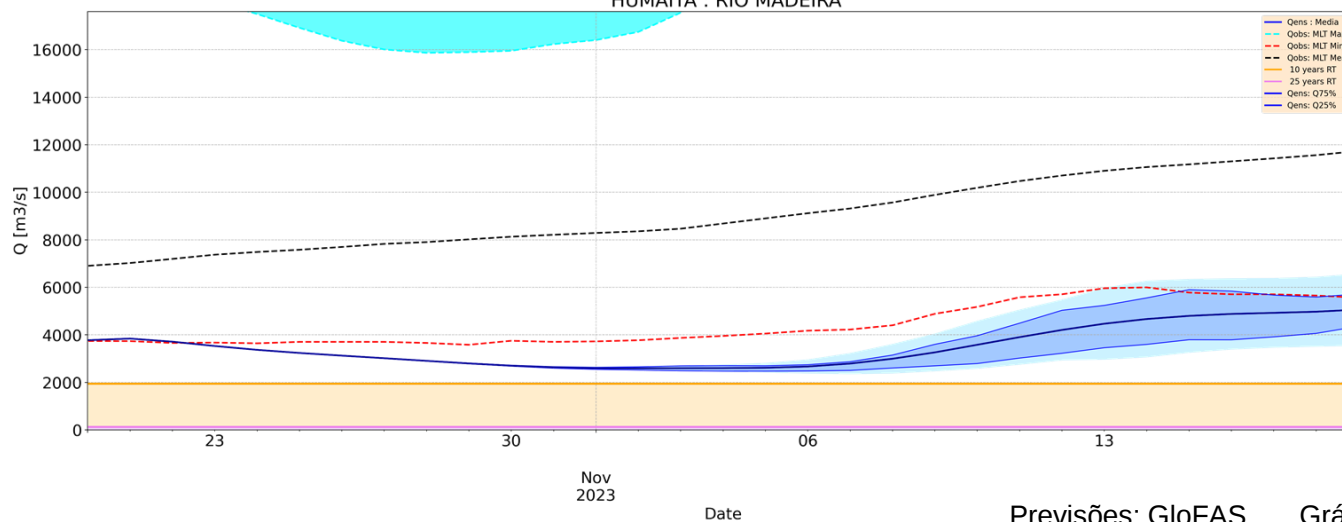
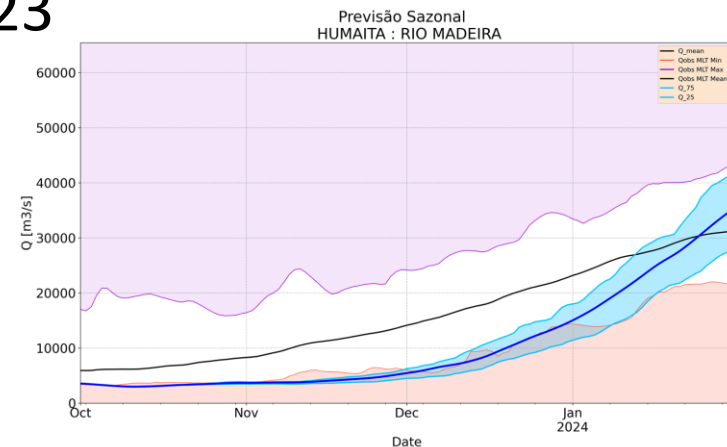
Previsões: GloFAS

Gráficos: CEMADEN

Previsão: 20/10/2023



Model Run - 2023-10-20
HUMAITA : RIO MADEIRA



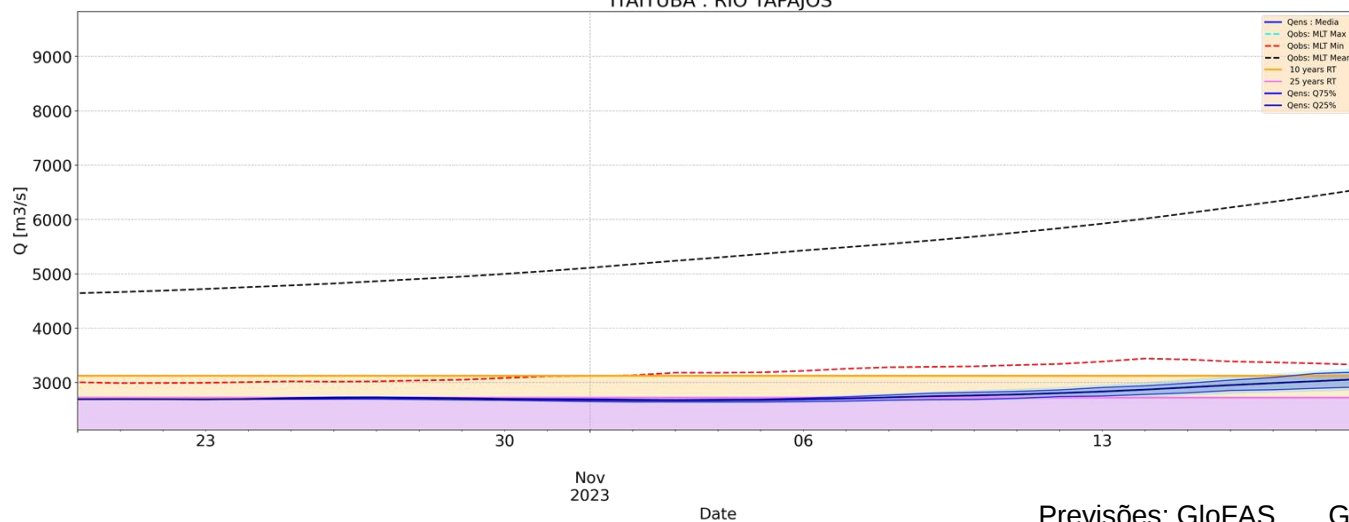
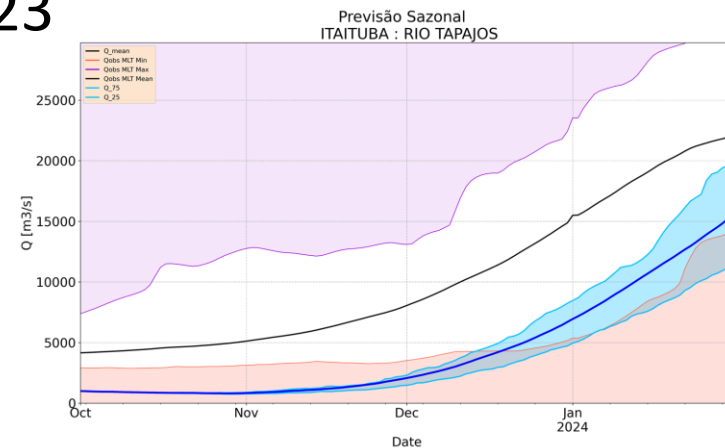
Previsões: GloFAS

Gráficos: CEMADEN

Previsão: 20/10/2023



Model Run - 2023-10-20
ITAITUBA : RIO TAPAJÓS



Previsões: GloFAS

Gráficos: CEMADEN

Previsão: 17/10/2023



Model Run - 2023-10-20
SANTARÉM : RIO TAPAJÓS

