



CEMADEN

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

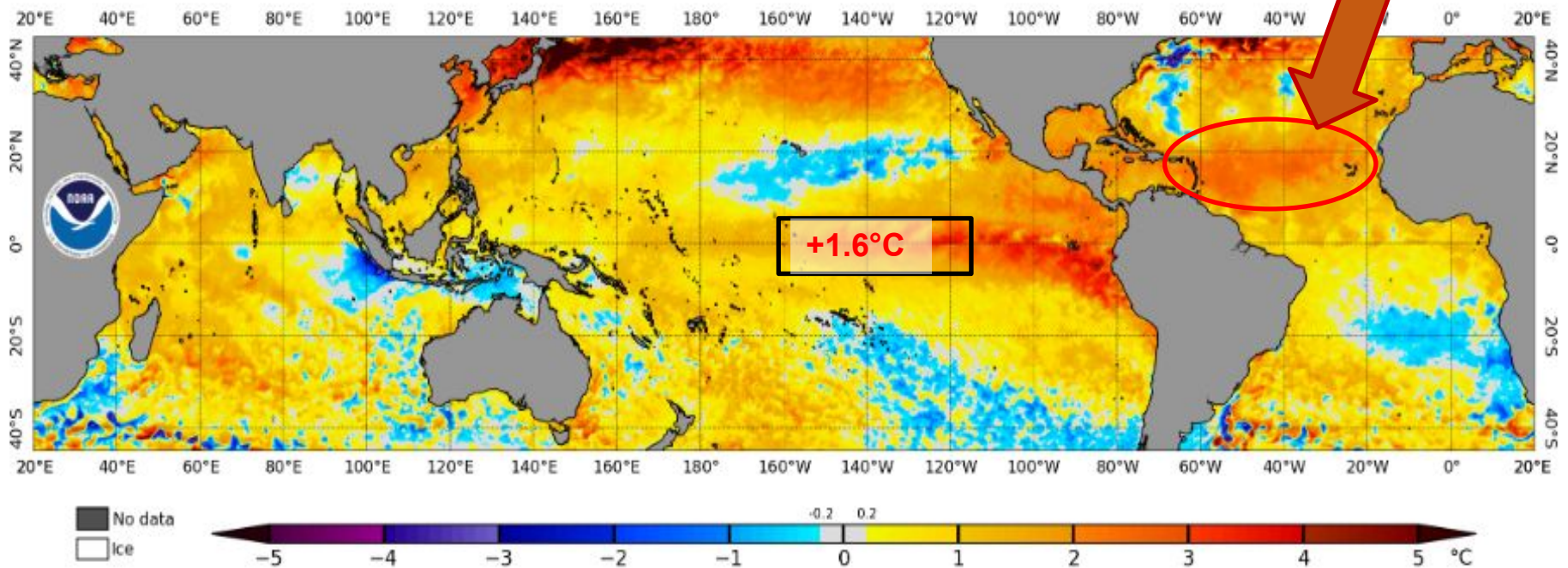
Monitoramento da situação do “El Niño” na Região Norte

22 de setembro de 2023



Status Atual: **El Niño**

NOAA Coral Reef Watch Daily 5km SST Anomalies (v3.1) 19 Sep 2023



Previsão do “ENSO”

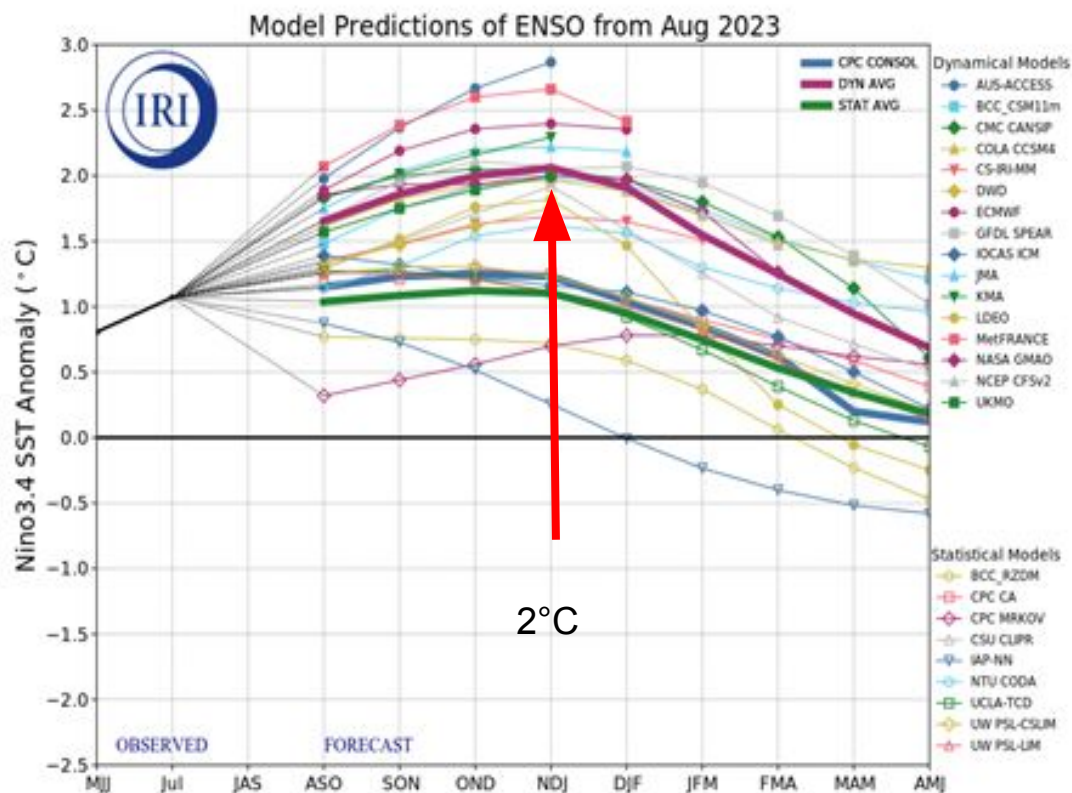
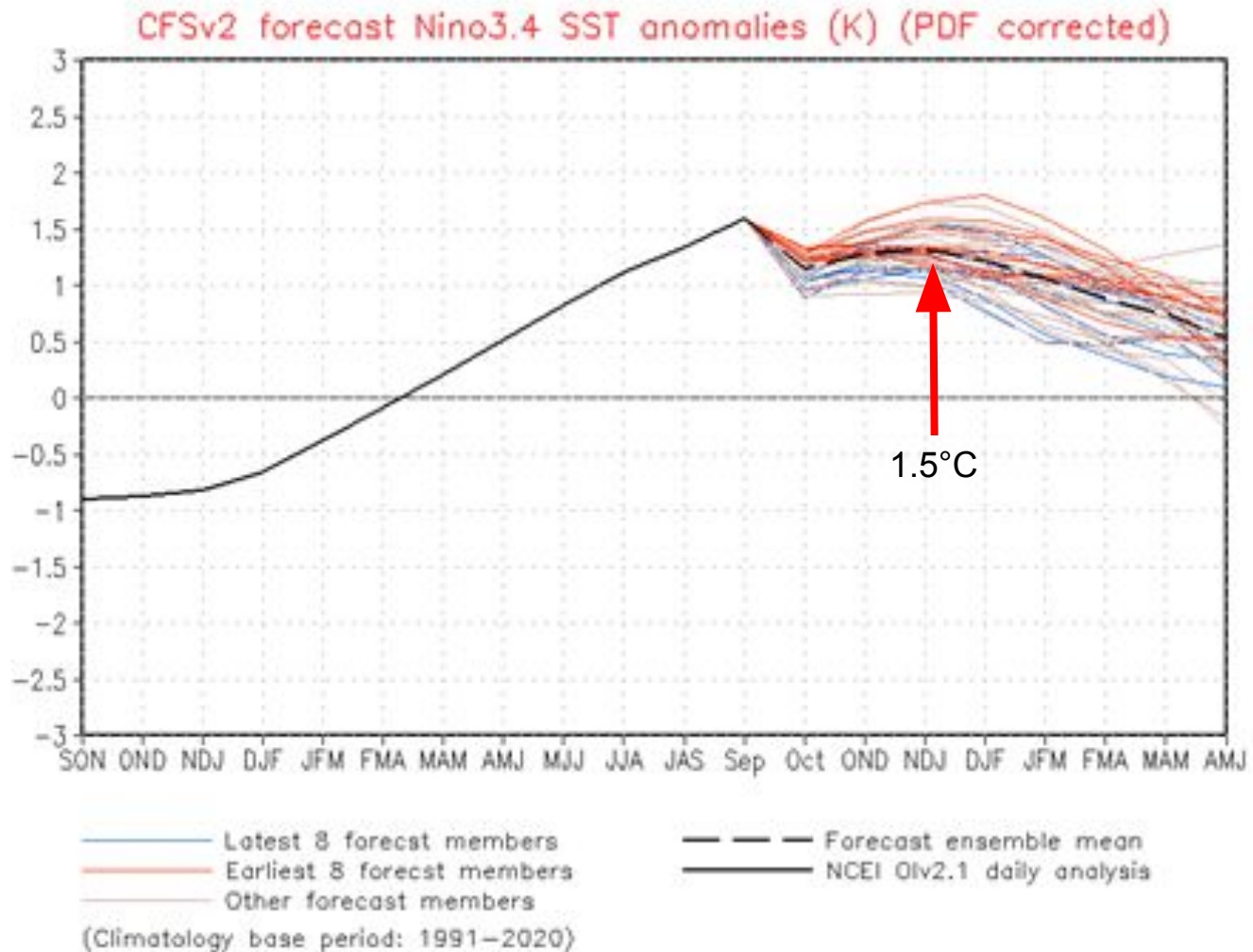


Figure provided by the International Research Institute (IRI) for Climate and Society (updated 19 August 2023).

Previsão do “ENSO”





CEMADEN

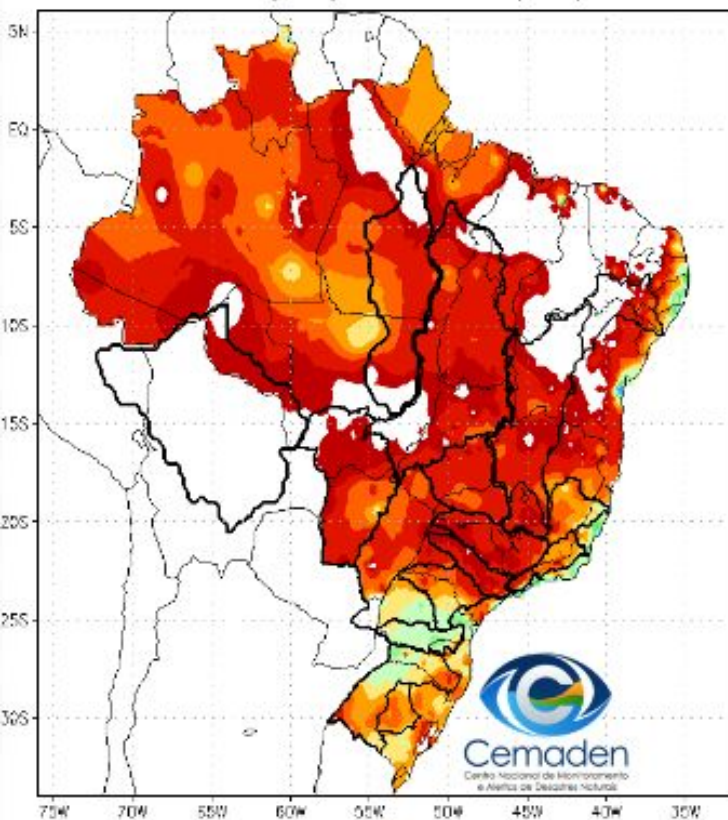
**Centro Nacional de Monitoramento e
Alertas de Desastres Naturais**

Previsão de Chuvas na Região Norte

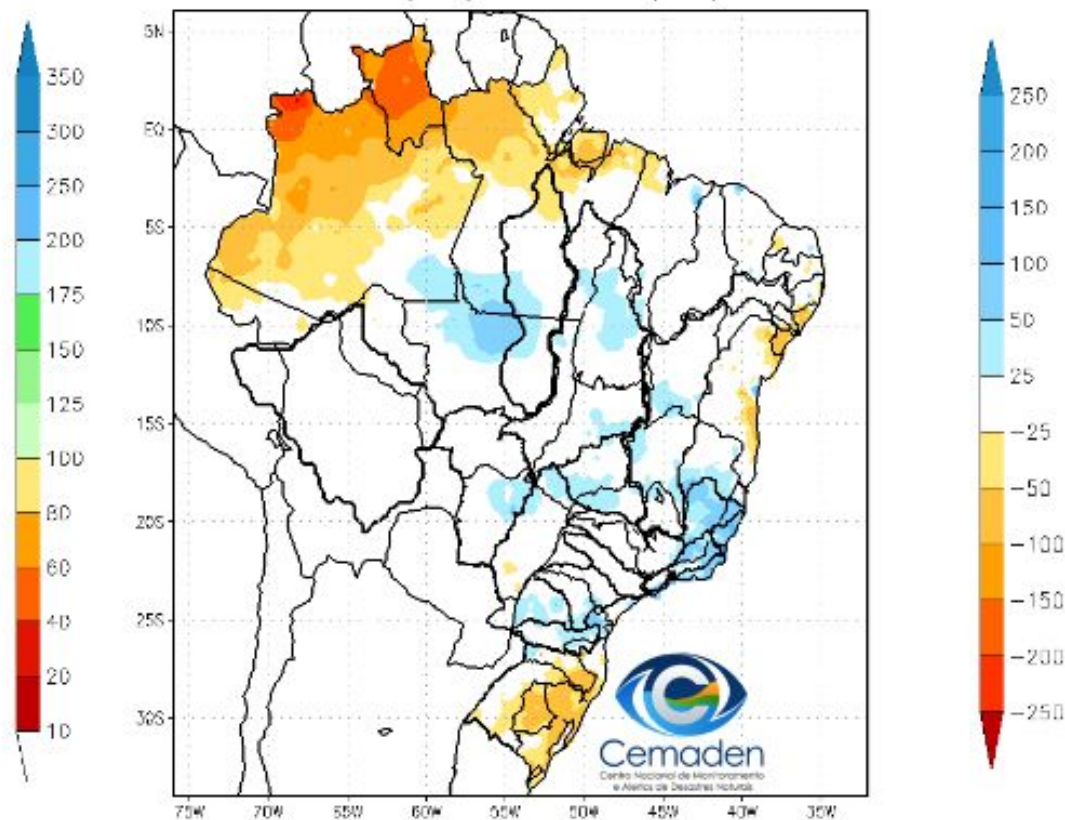
22 de setembro de 2023

Precipitação observada em AGOSTO/2023

Precipitação Acumulada (mm) A.S.
Período: 01/08/2023 a 31/08/2023



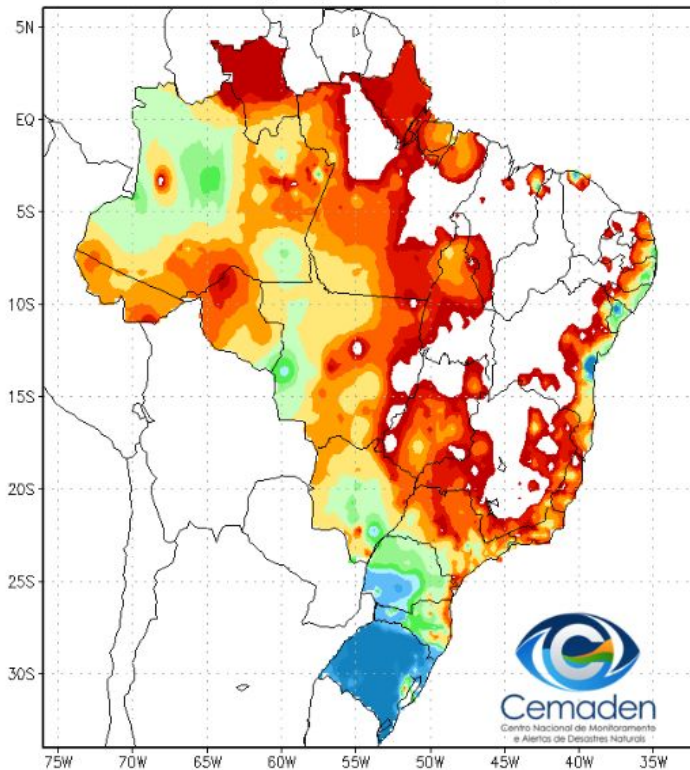
Anomalia de Precipitação (mm) A.S.
Período: 01/08/2023 a 31/08/2023



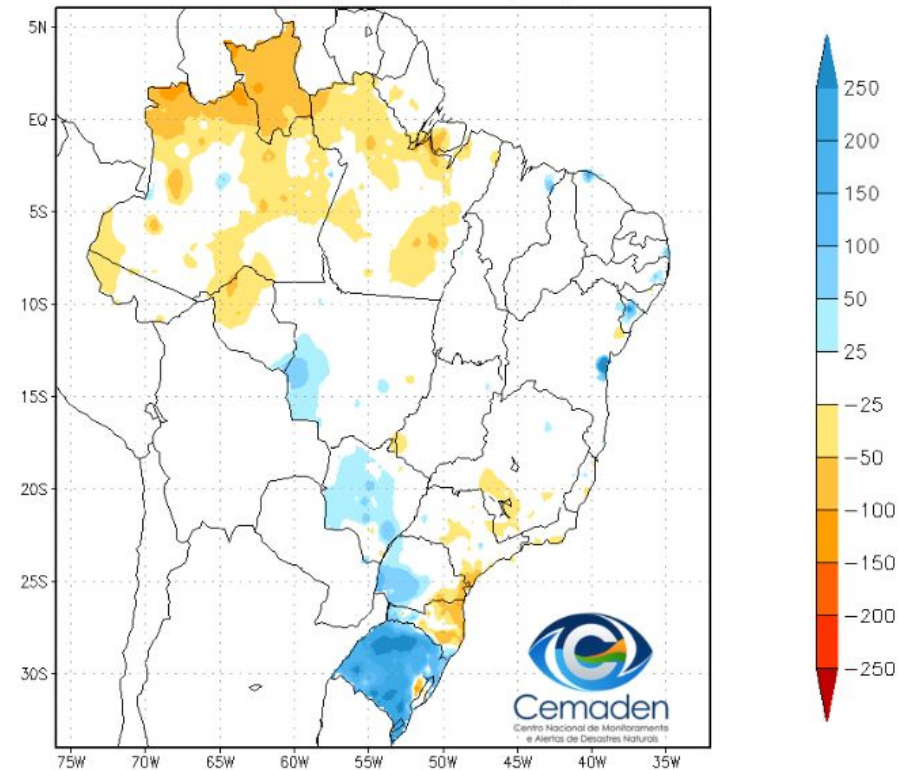
FONTE DOS DADOS: INPE

Precipitação observada desde 01 de SETEMBRO/2023

Precipitação Acumulada (mm)
Período: 01/09/2023 a 21/09/2023



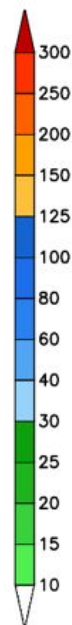
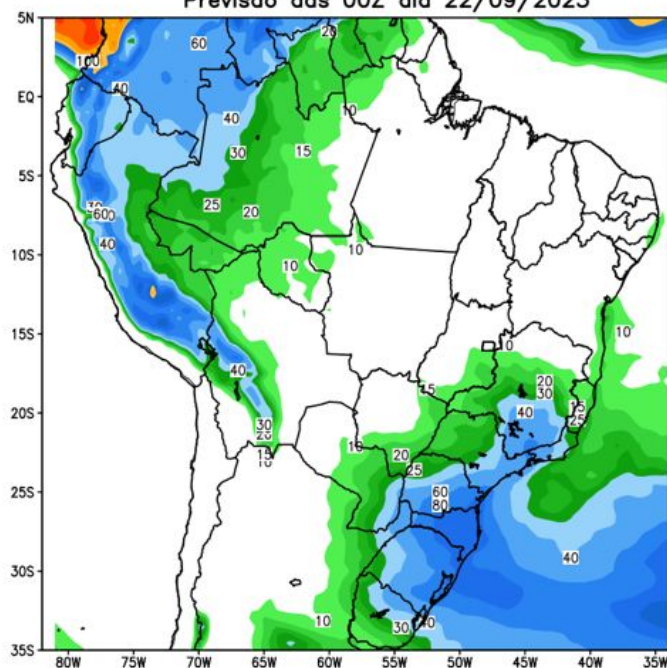
Anomalia de Precipitação (mm)
Período: 01/09/2023 a 21/09/2023



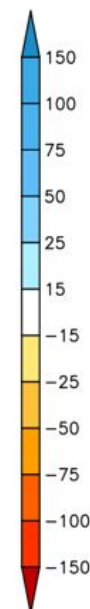
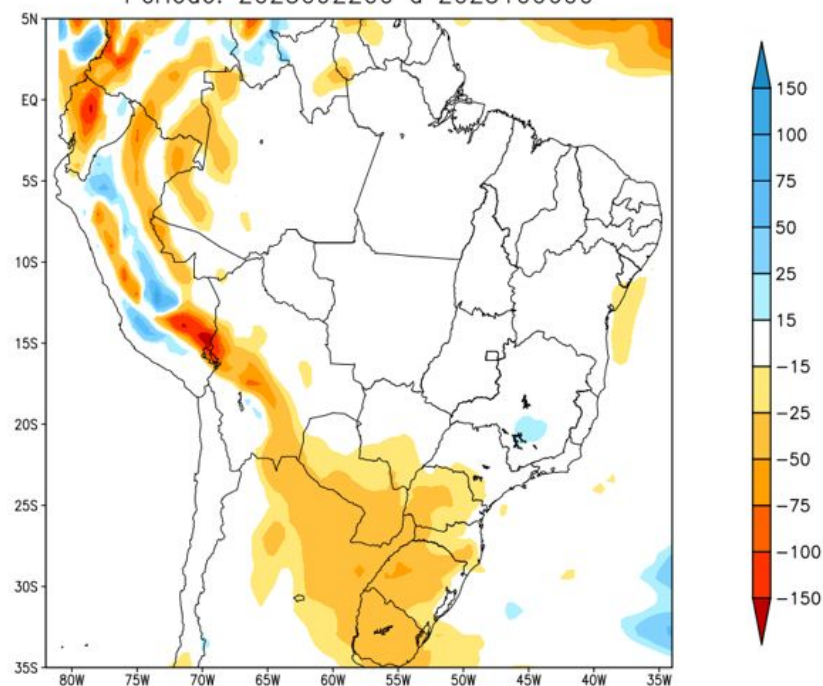
FONTE DOS DADOS: INPE

Previsão de chuva próximas duas semanas

GEFS / BRASIL
Precipitação acumulada 14 dias (mm)
Previsão das 00Z dia 22/09/2023

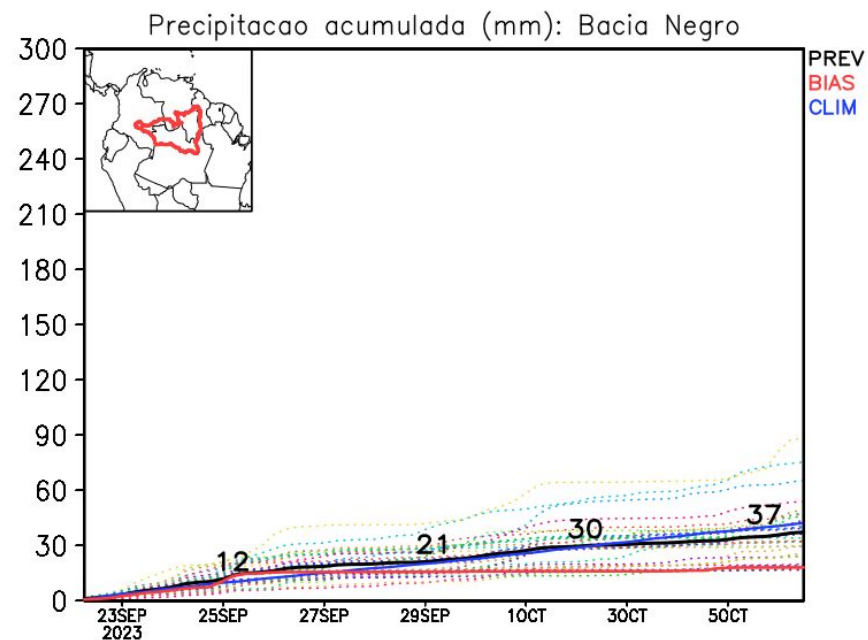
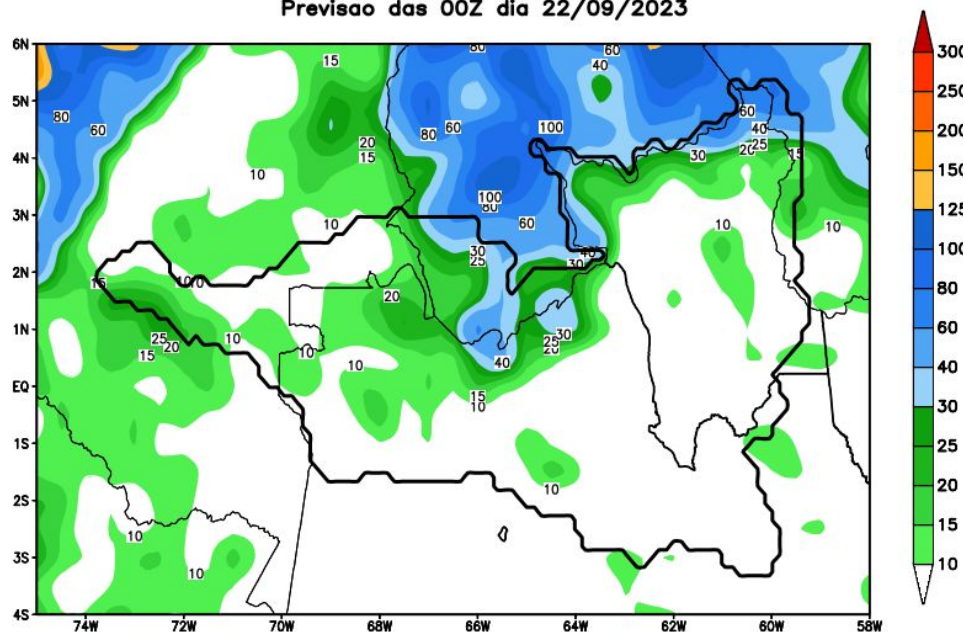


Anomalia de Precipitação BR (mm)
Período: 2023092200 a 2023100600



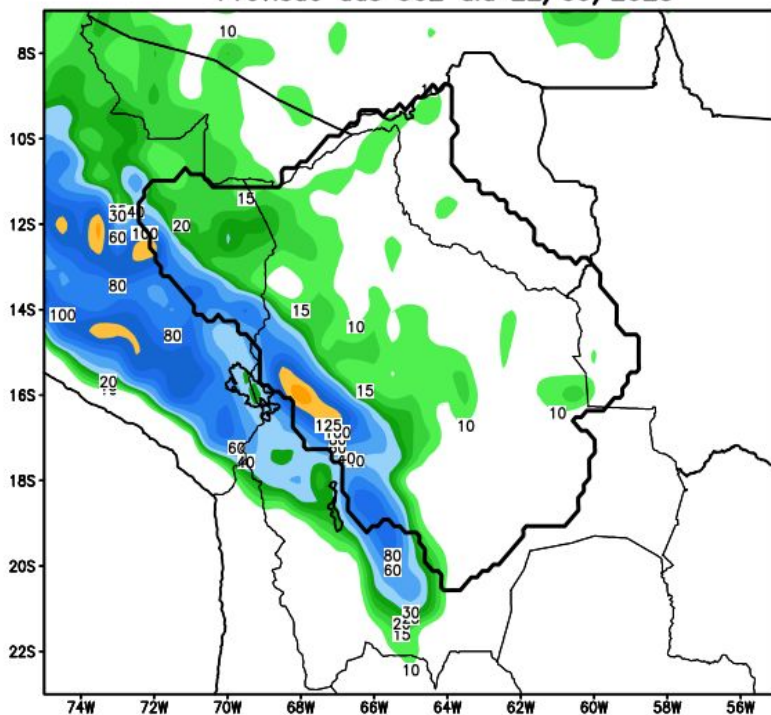
Previsão de chuva próximas duas semanas

GEFS_BC / Bacia do Rio Negro
Prec. acumulada com correcao de vies em 14 dias (mm)
Previsao das 00Z dia 22/09/2023

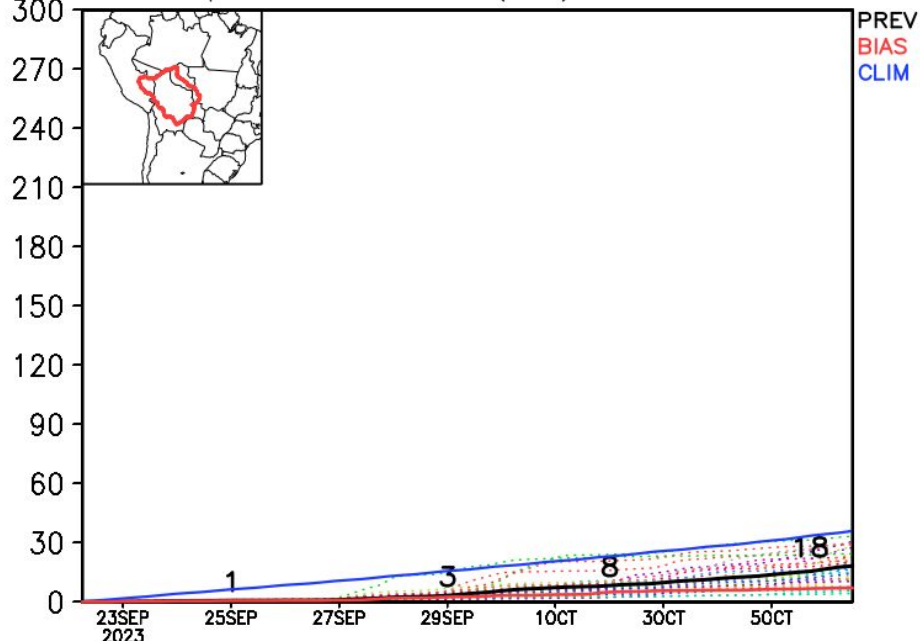


Previsão de chuva próximas duas semanas

GEFS_BC / Bacia do Rio Madeira
Prec. acumulada com correção de vies em 14 dias (mm)
Previsão das 00Z dia 22/09/2023

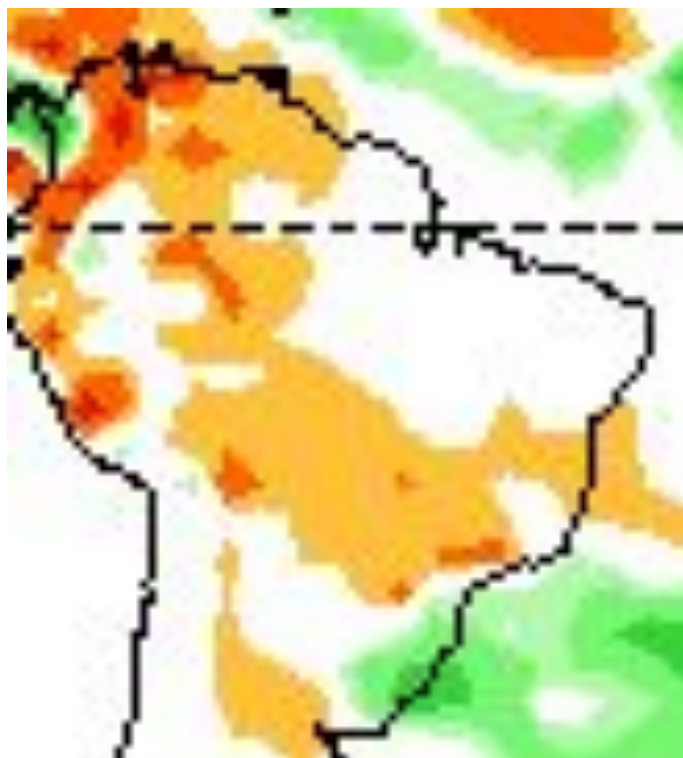


Precipitacao acumulada (mm): Bacia Madeira

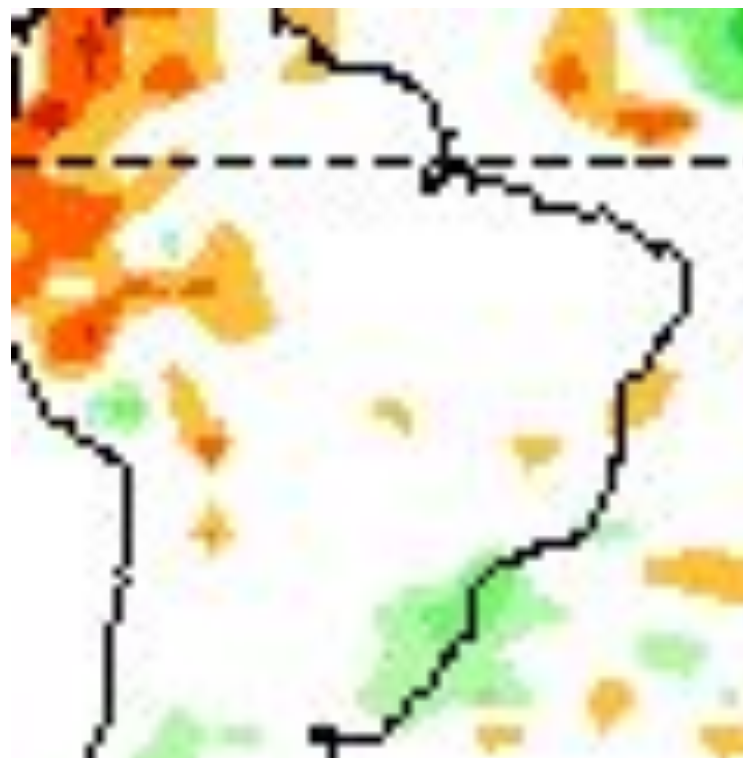


Tendência 3a e 4a semanas

06 - 12/10

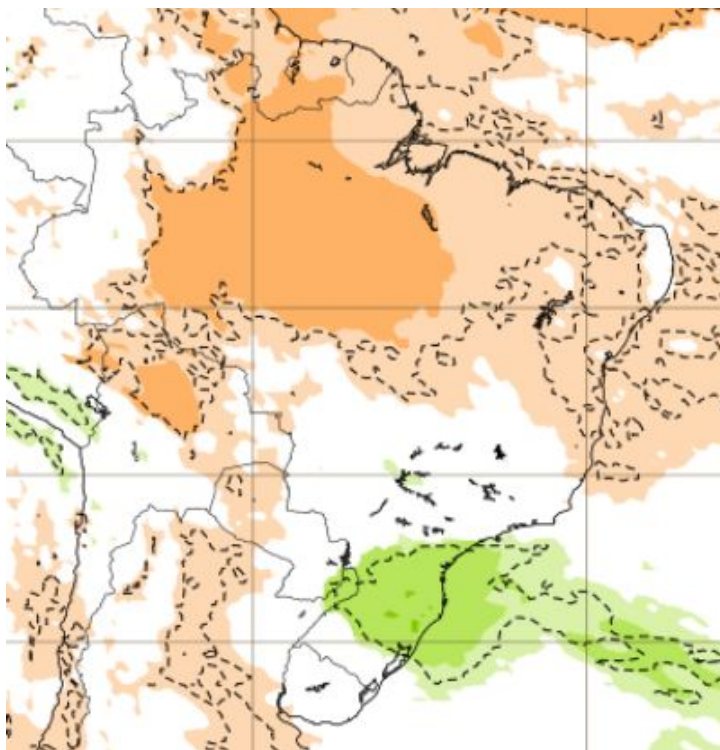


13-19/10

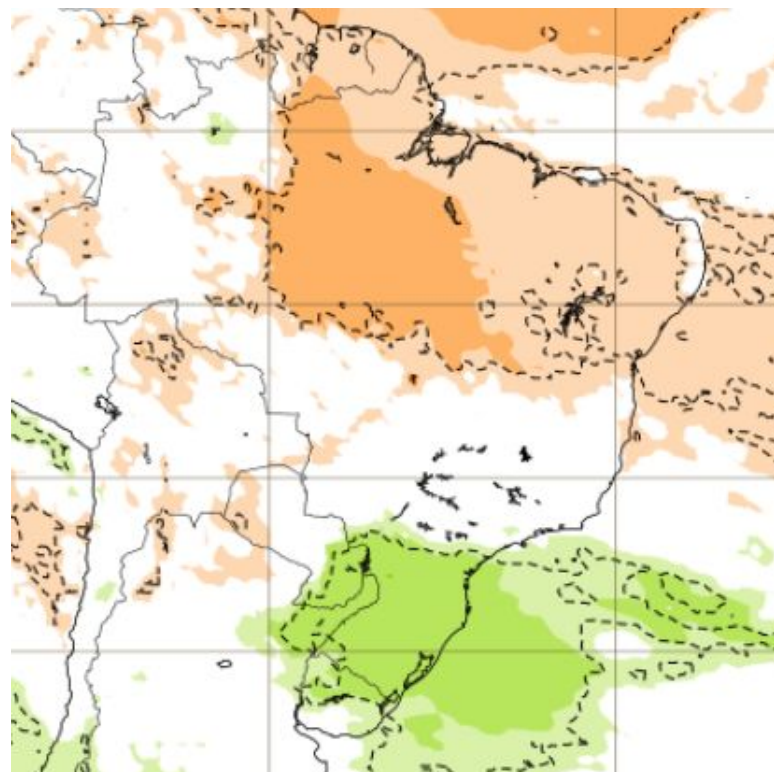


Tendência para 3^a e 4^a semanas

09-15/10



16-22/10



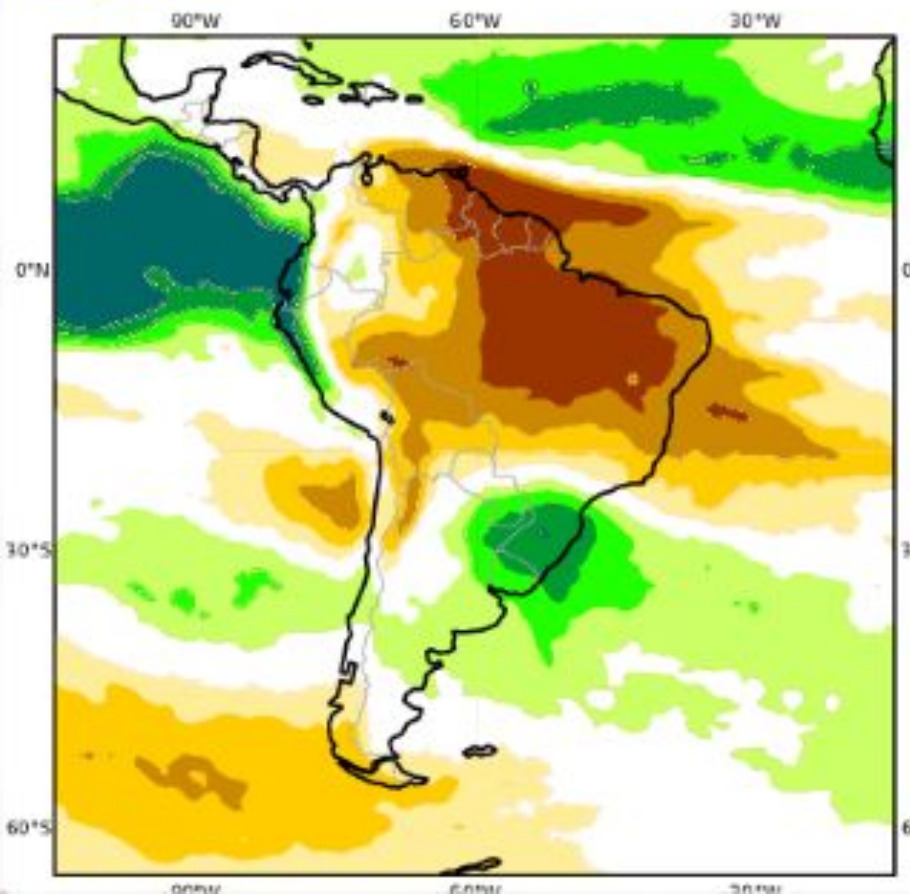
Previsão Multi Modelo OND

C3S multi-system seasonal forecast

Prob(most likely category of precipitation)

Nominal forecast start: 01/09/23

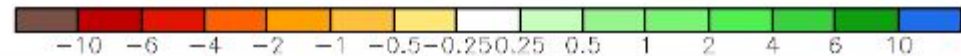
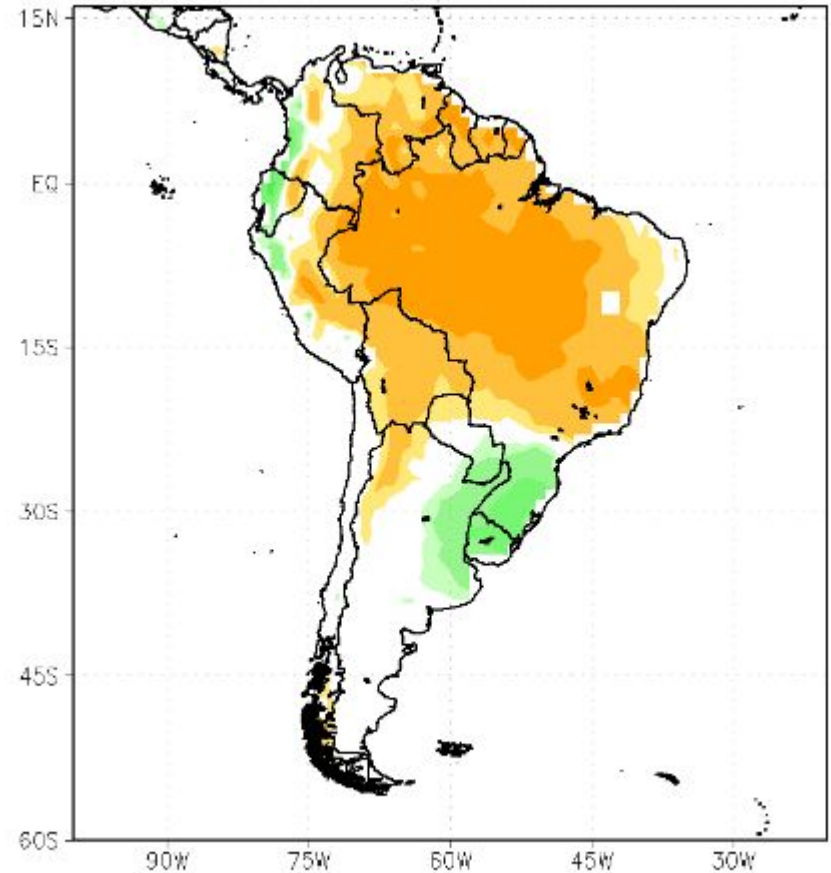
Unweighted mean



NMME Precipitation Anomalies (mm/day)

Oct2023–Dec2023

September2023 initial conditions



Monitoramento da situação da seca na Região Norte

DIAGNÓSTICO: SETEMBRO/2023

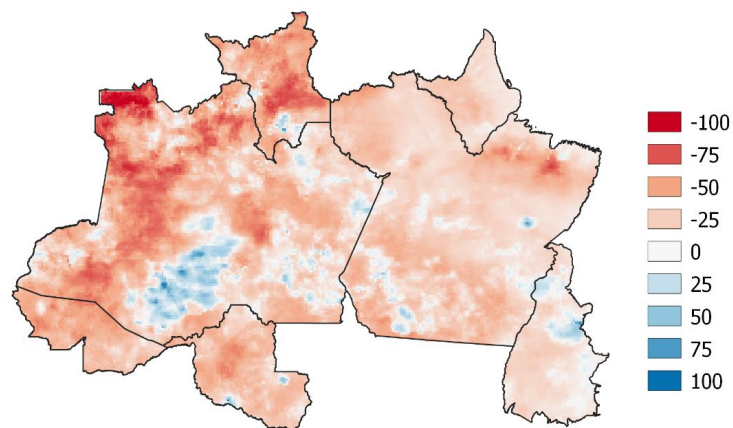


MINISTÉRIO DA
CIÊNCIA, TECNOLOGIA
E INOVAÇÕES

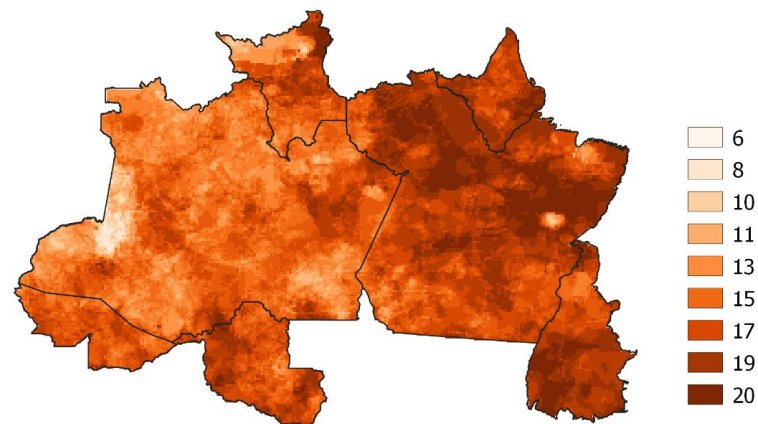


PRECIPITAÇÃO: SETEMBRO 2023 (ATÉ DIA 20/09)

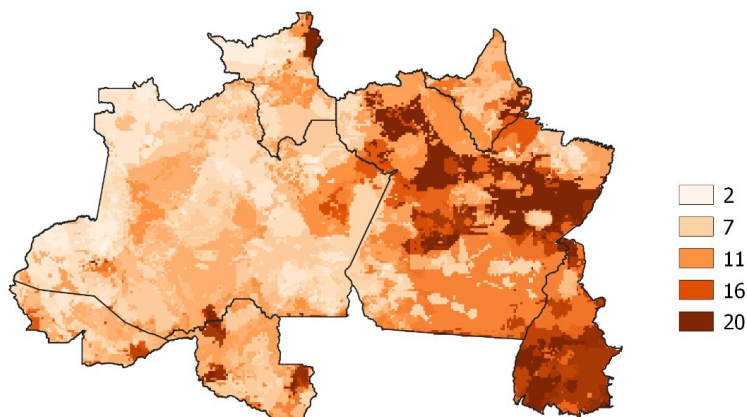
Anomalia (mm)



Total de dias sem chuva

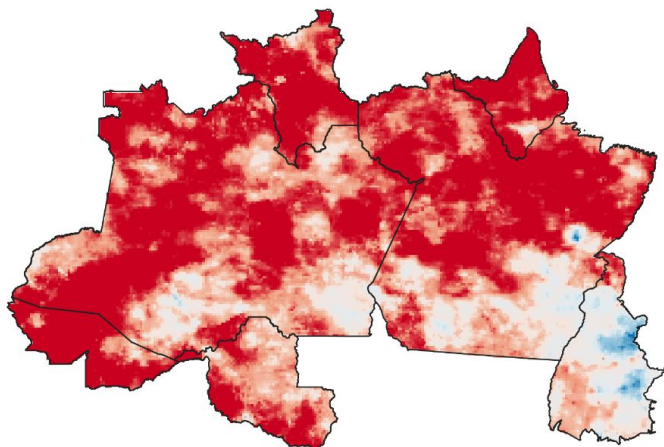


Máximo de dias
consecutivos sem chuva

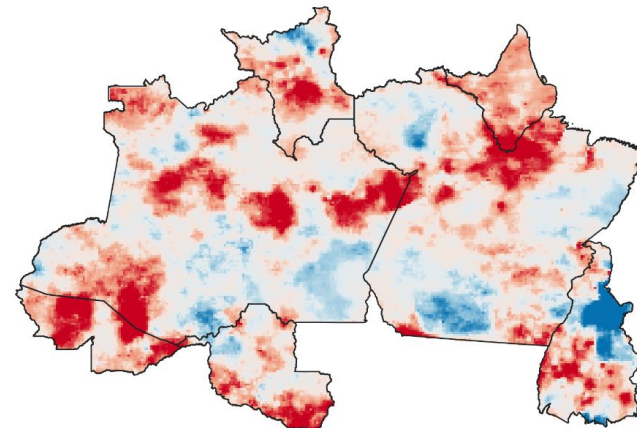


SPI: SETEMBRO 2023

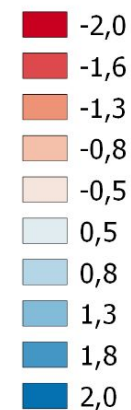
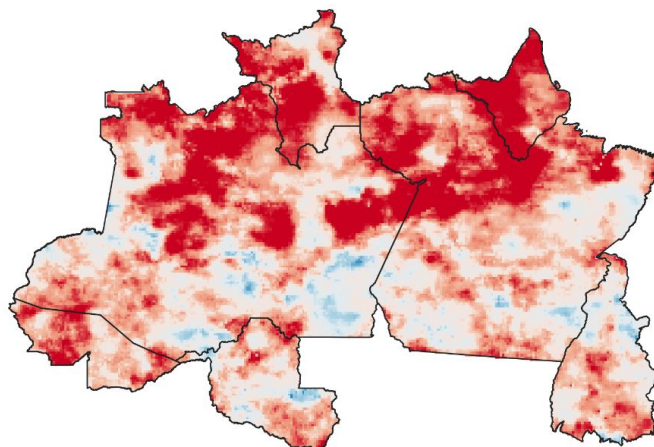
SPI03



SPI12



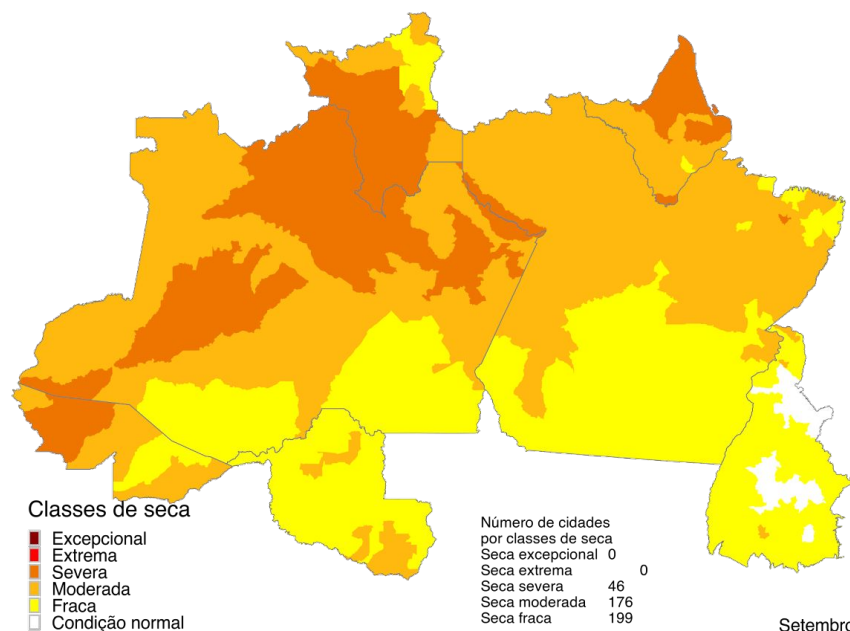
SPI06



ÍNDICE INTEGRADO DE SECA - IIS

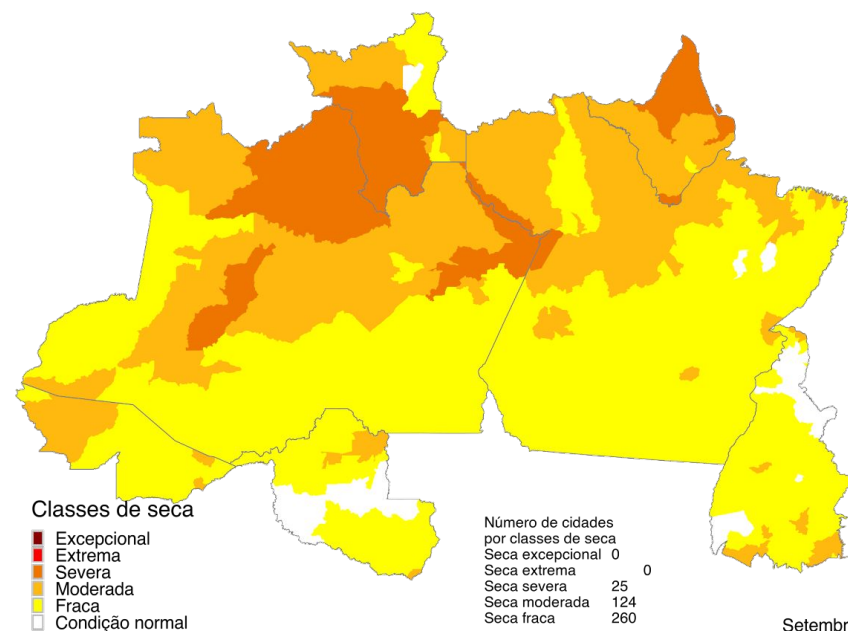
(SPI3 E 6 + VHI + AUS): SETEMBRO/2023

IIS 3 MESES



Índice Integrado de Seca (SPI3, VHI, US)
Dados: CPTEC/INPE - NOAA - NASA / Preparação: Cemaden/MCTI

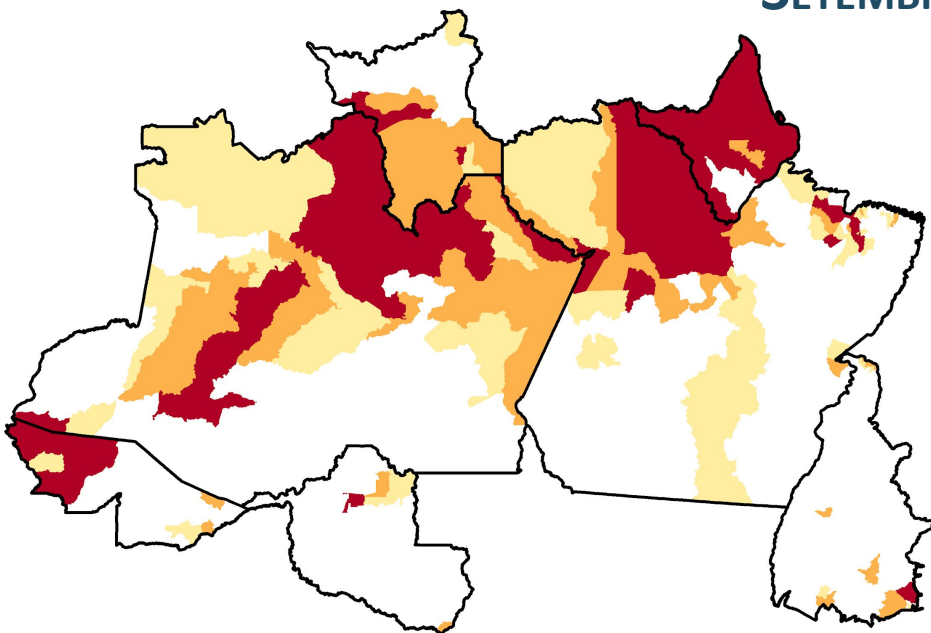
IIS 6 MESES



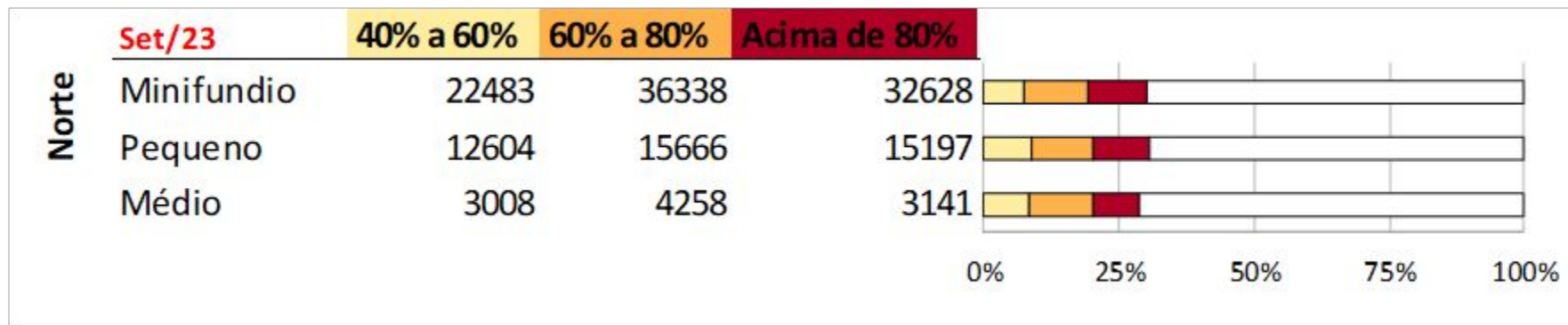
Índice Integrado de Seca (SPI6, VHI, US)
Dados: CPTEC/INPE - NOAA - NASA / Preparação: Cemaden/MCTI

ÁREAS DE PASTAGENS E AGRÍCOLAS AFETADAS PELA SECA

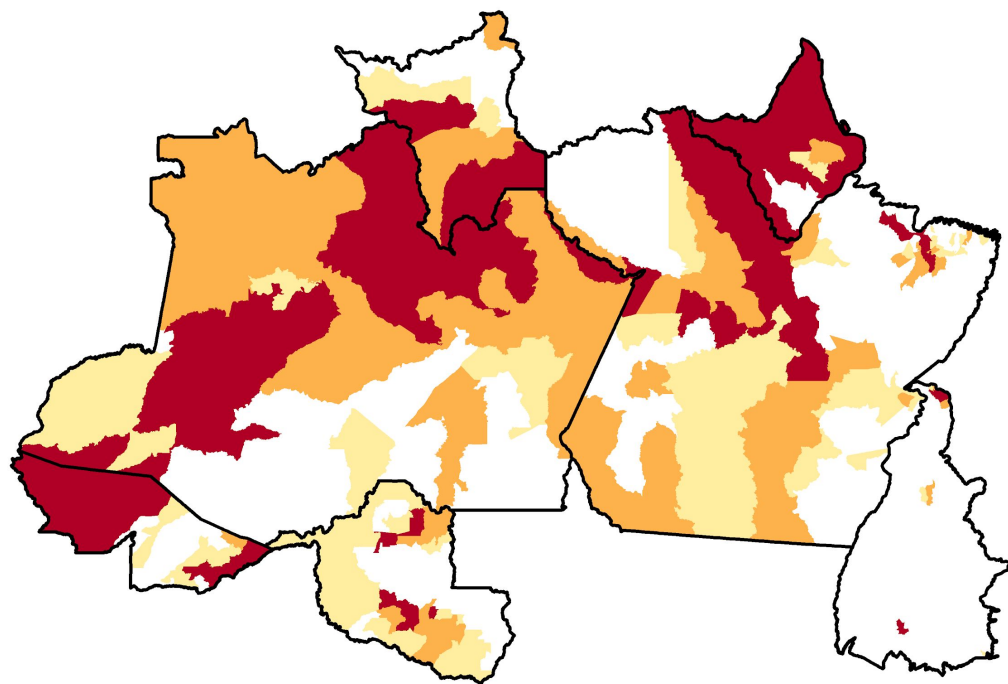
SETEMBRO/23



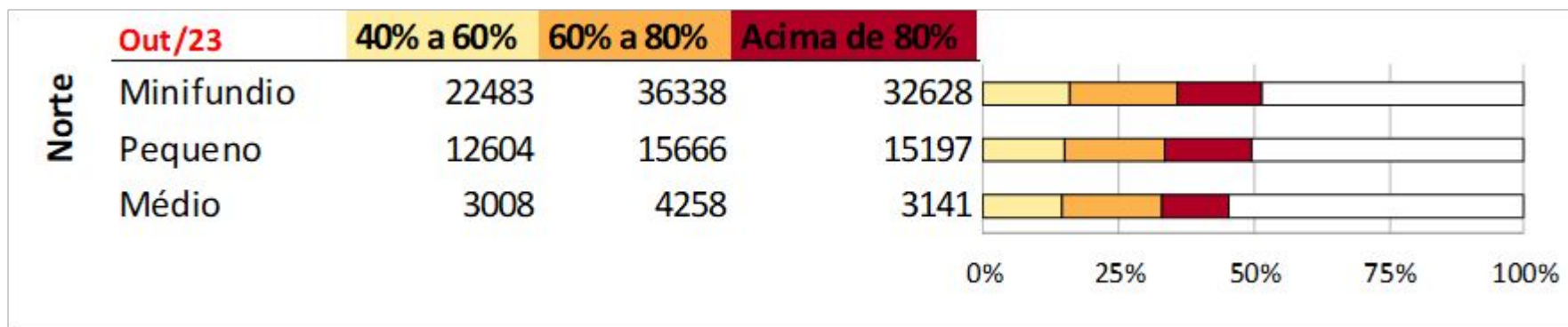
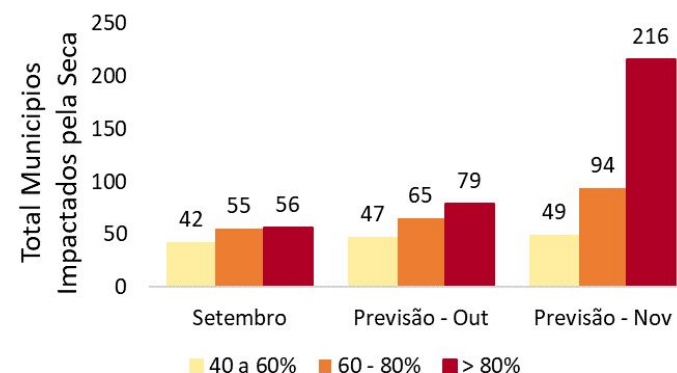
	UF	40 a 60%	60 - 80%	> 80%
Norte	AC	2	2	6
	AM	9	24	11
	AP		1	13
	PA	22	15	21
	RO	2	2	1
	RR	2	4	2
	TO	5	7	2



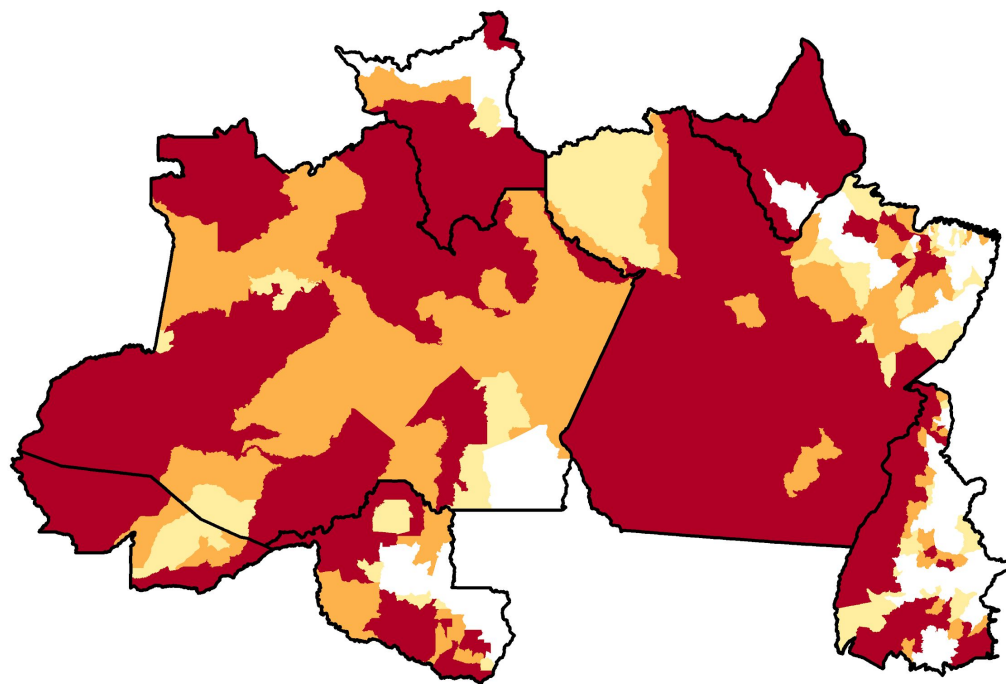
ÁREAS DE PASTAGENS E AGRÍCOLAS AFETADAS PELA SECA



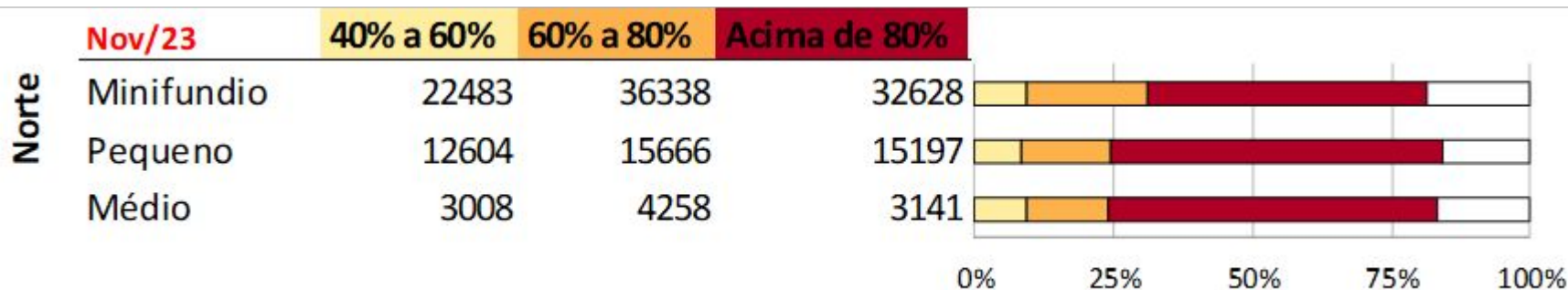
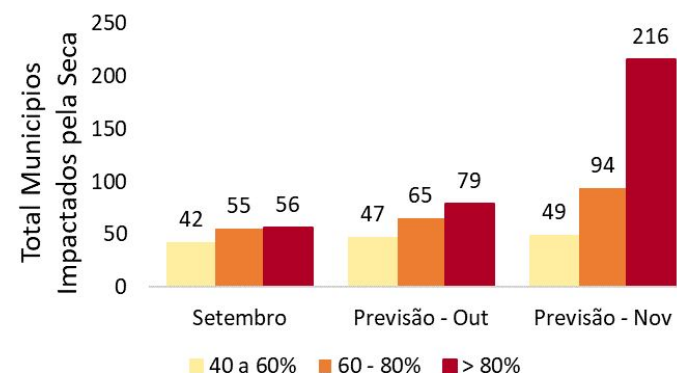
CENÁRIO OUT/23



ÁREAS DE PASTAGENS E AGRÍCOLAS AFETADAS PELA SECA



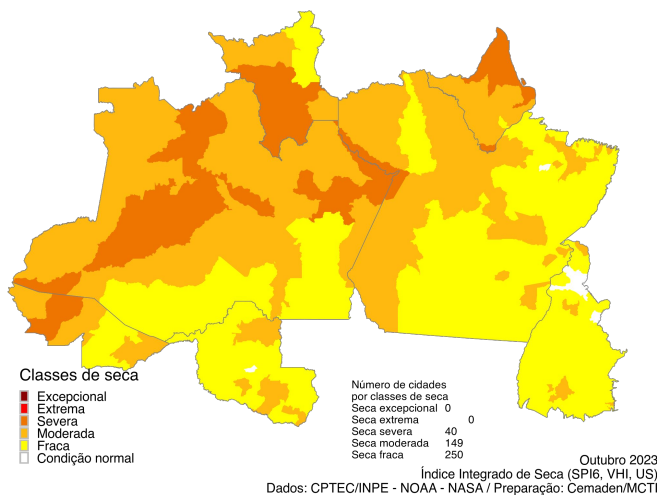
CENÁRIO Nov/23



Outubro/23

CHUVA 50% ABAIXO DA MÉDIA

Novembro/23

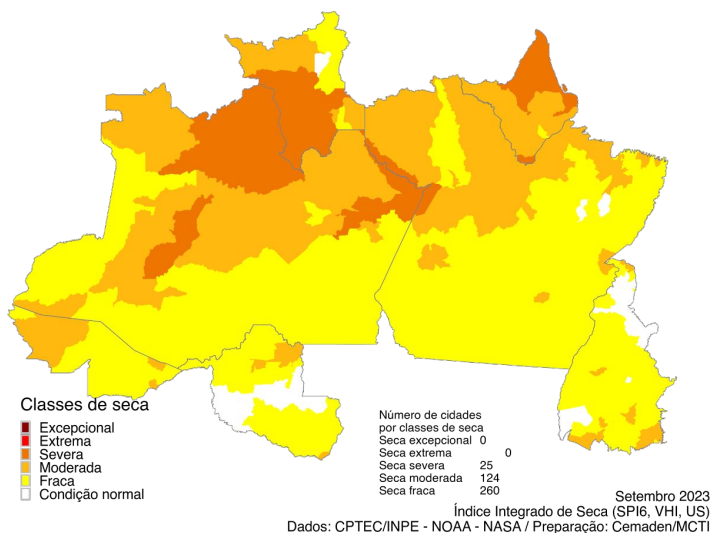
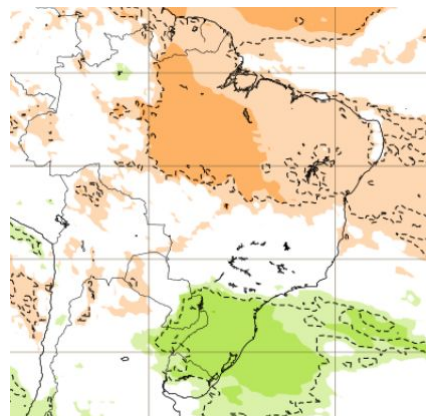
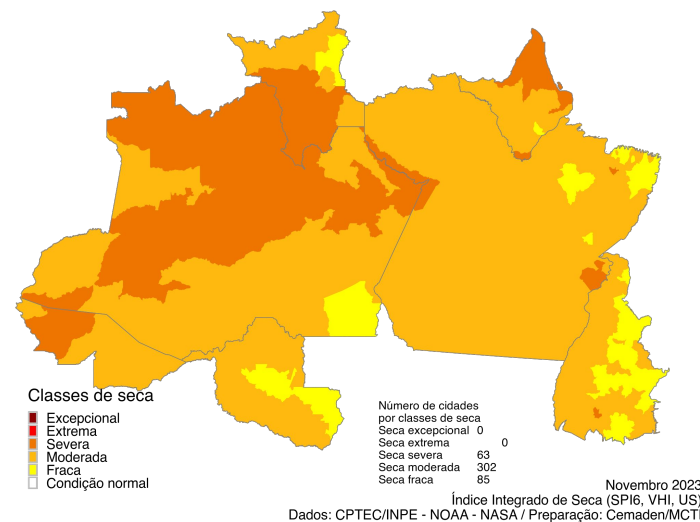


IIS

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

IIS OBSERVADO (IIS6)

Setembro/23



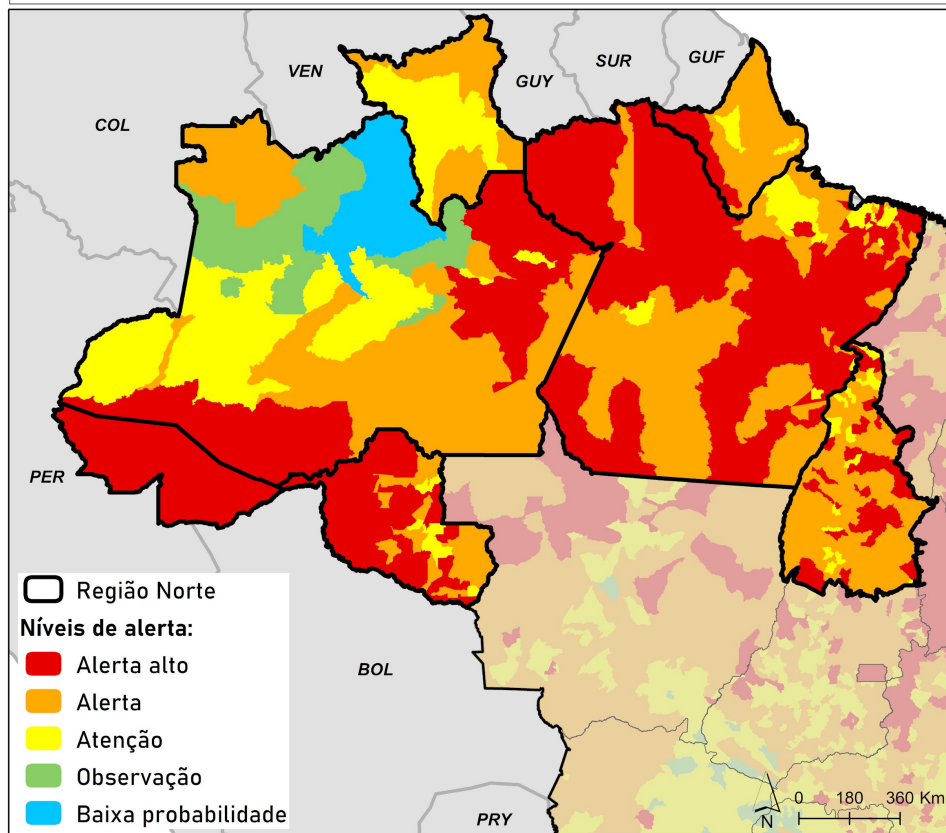
Gestão do Risco e Impactos do Fogo



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

Previsão de alertas por municípios

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

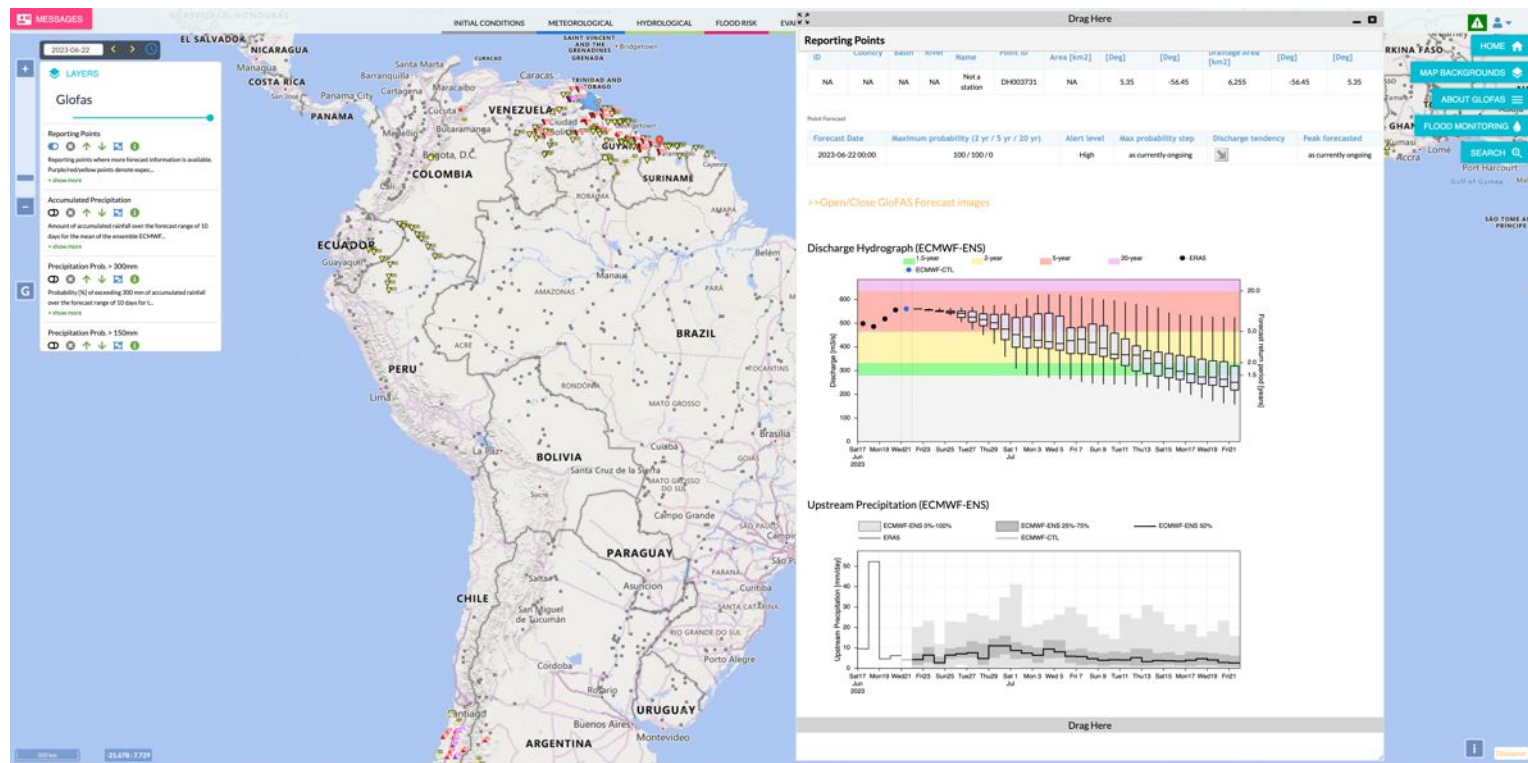
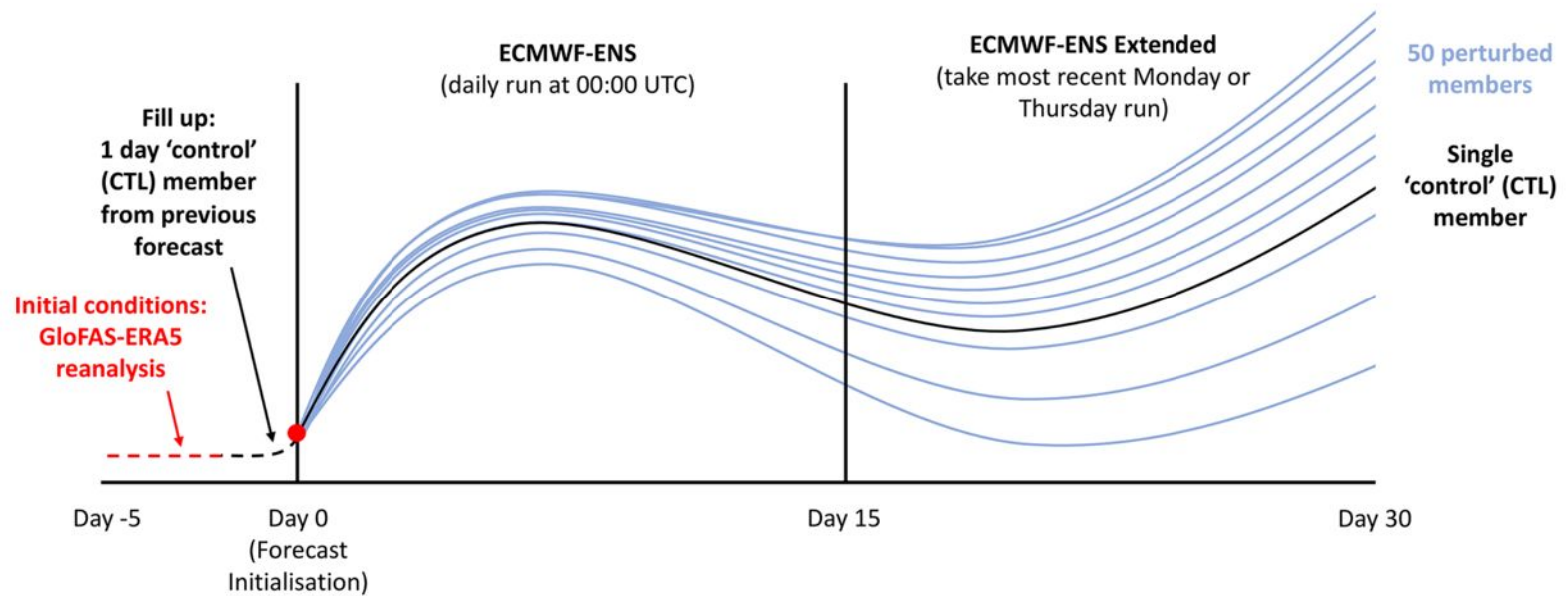


Resultados dos níveis de alerta para municípios brasileiros da Região Norte:

Nível de Alerta	Número de municípios	Área (km ²)
Alerta alto	177	1,534,623
Alerta	148	1,461,803
Atenção	102	604,959
Observação	1	16,831
Baixa probabilidade	7	208,704

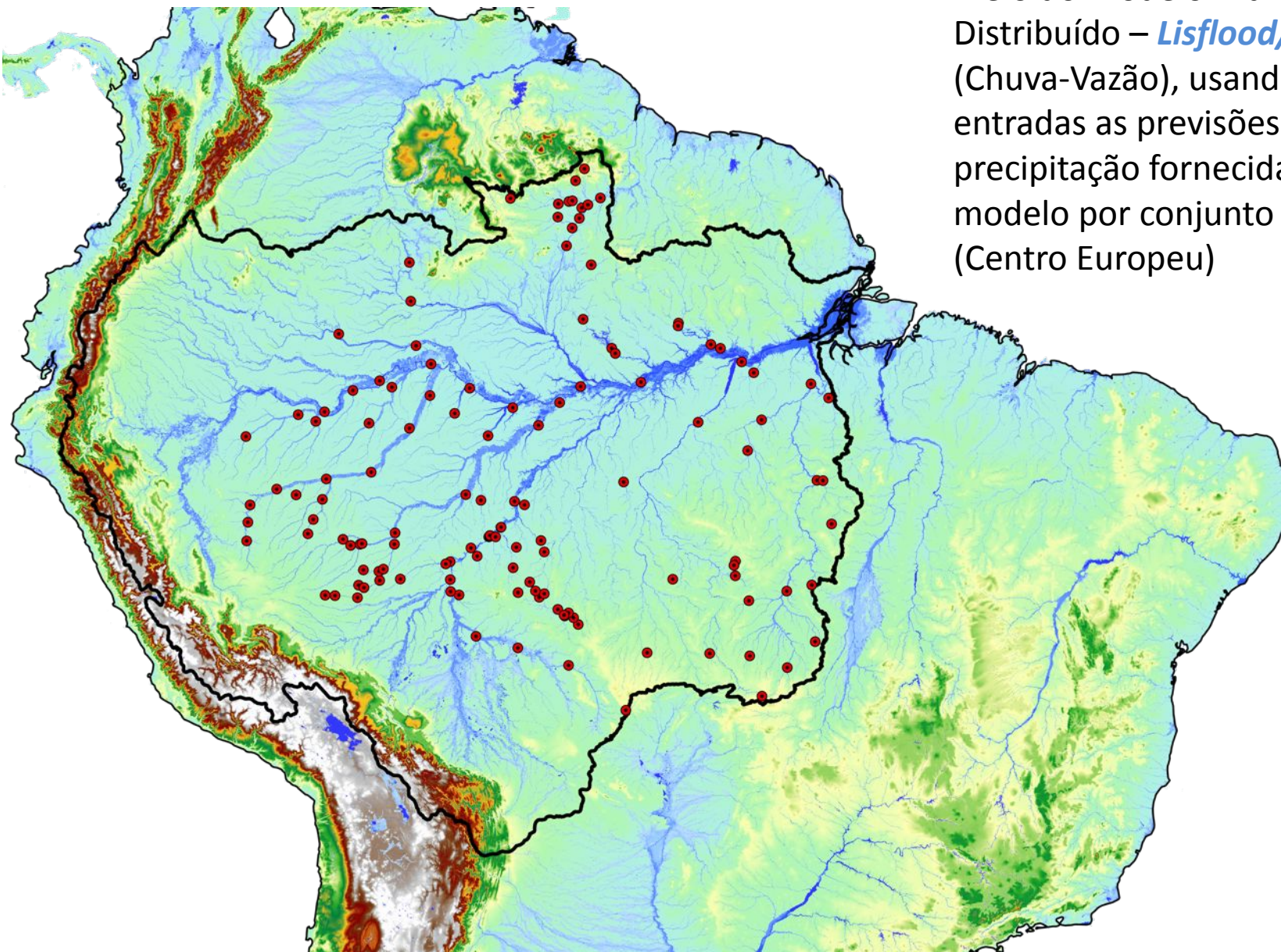
Aumento do número de municípios em
níveis de **Alerta Alto** e **Alerta**!

GloFAS 30-day river discharge ensemble forecast

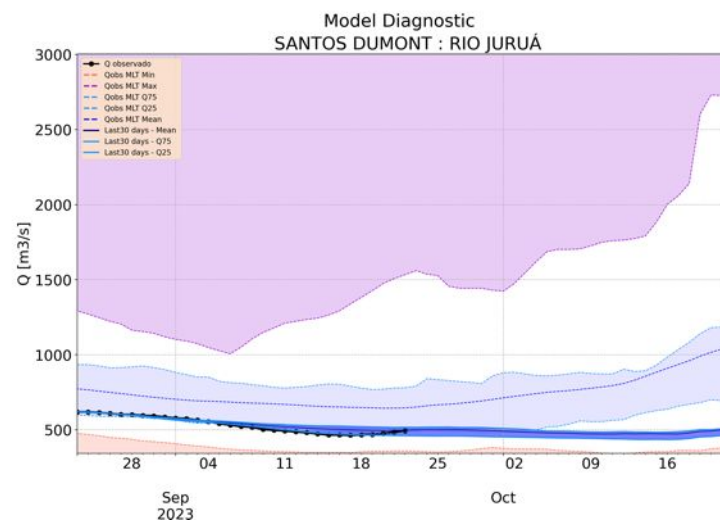
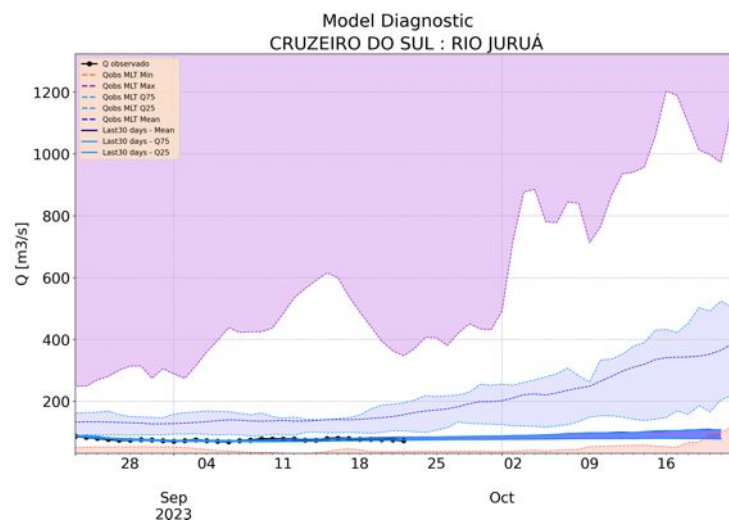
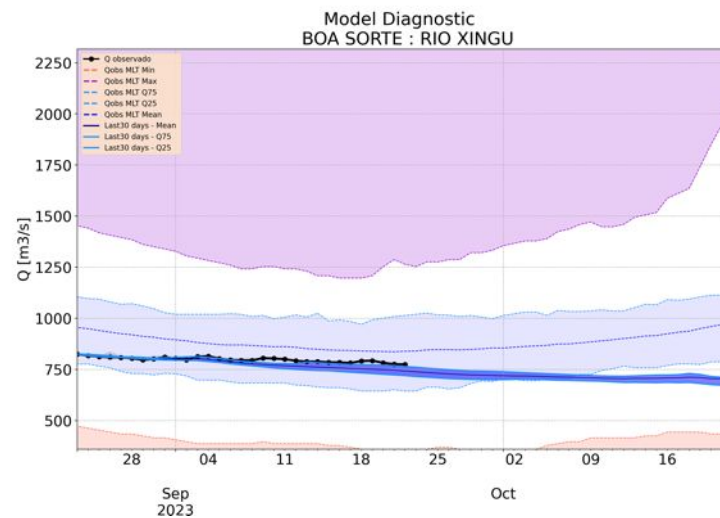
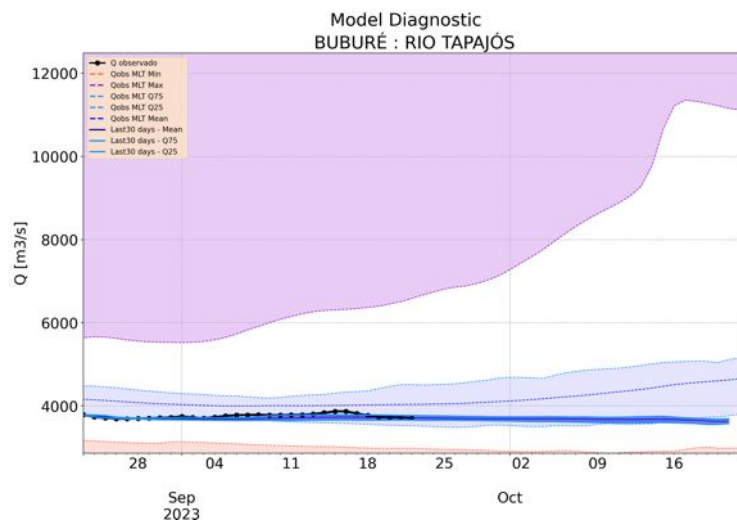


Previsão Hidrológica: Norte

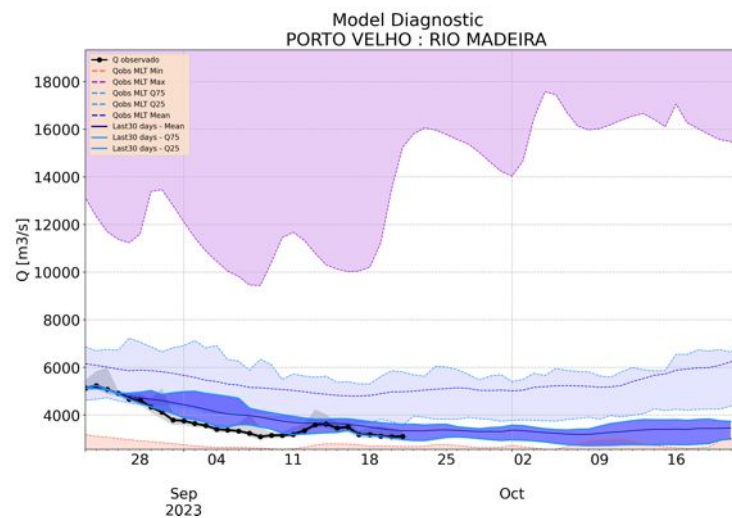
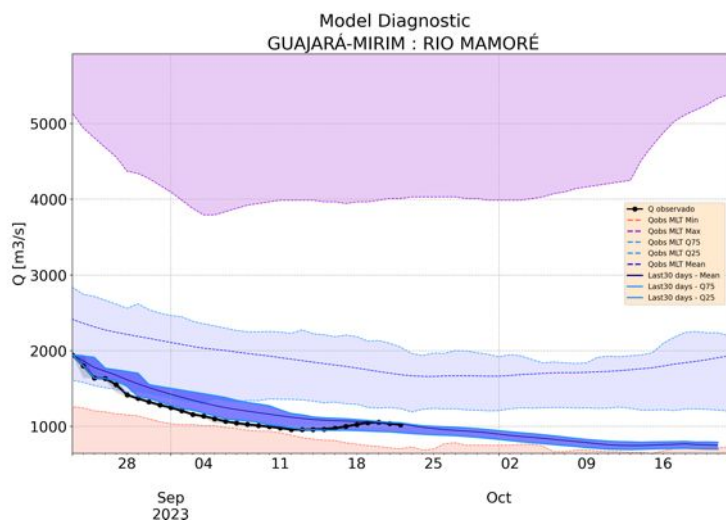
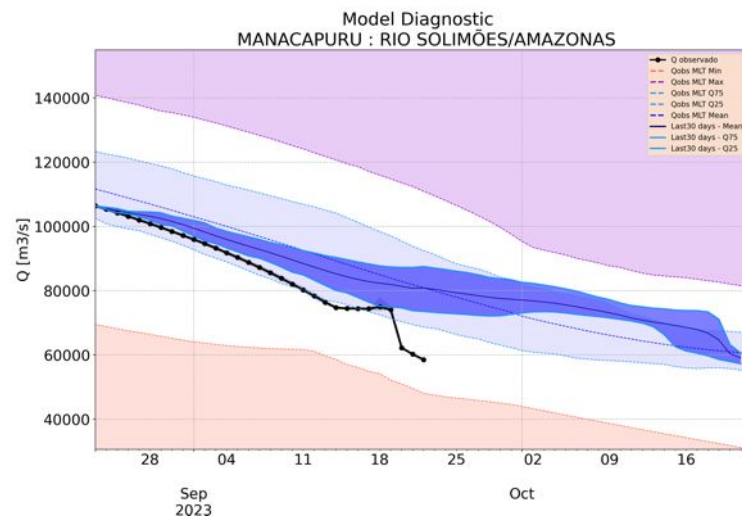
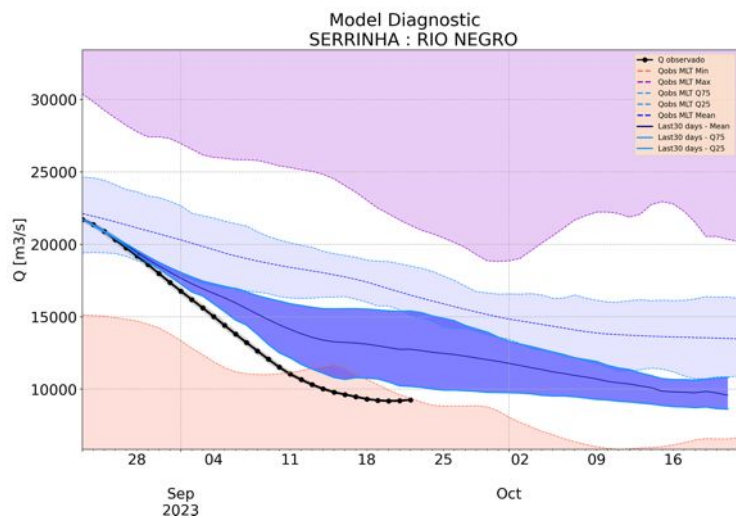
Previsão de vazão realizada por meio do Modelo Hidrológico Distribuído – *Lisflood/GLOFAS* (Chuva-Vazão), usando como entradas as previsões de precipitação fornecidas pelo modelo por conjunto *ECMWF* (Centro Europeu)

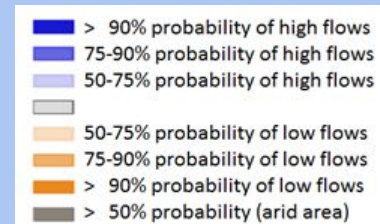


Diagnósticos



Diagnósticos

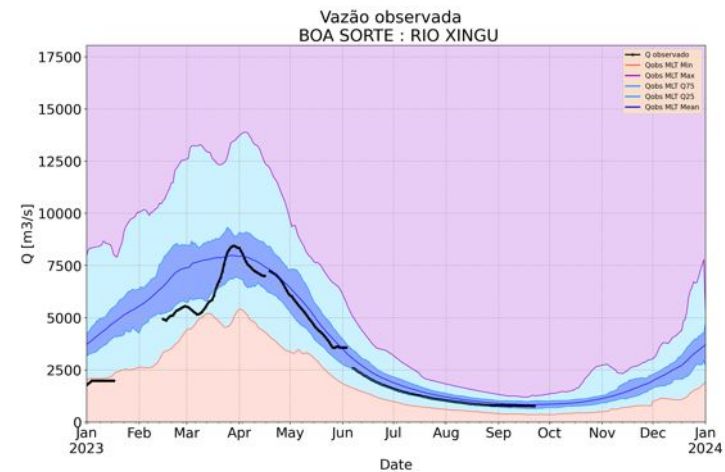
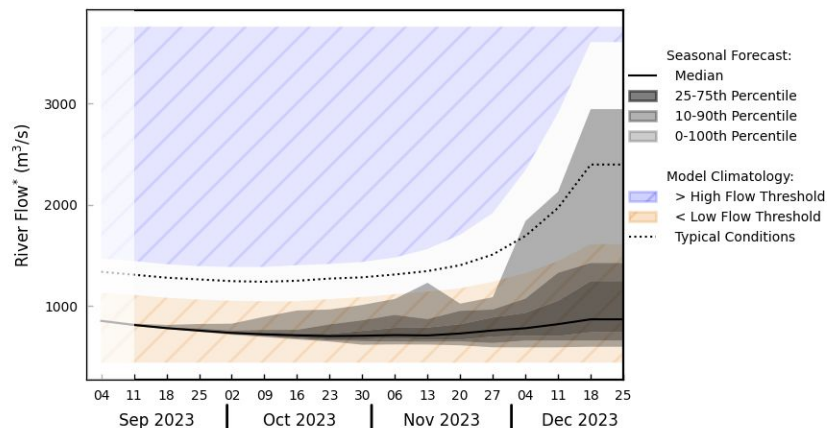




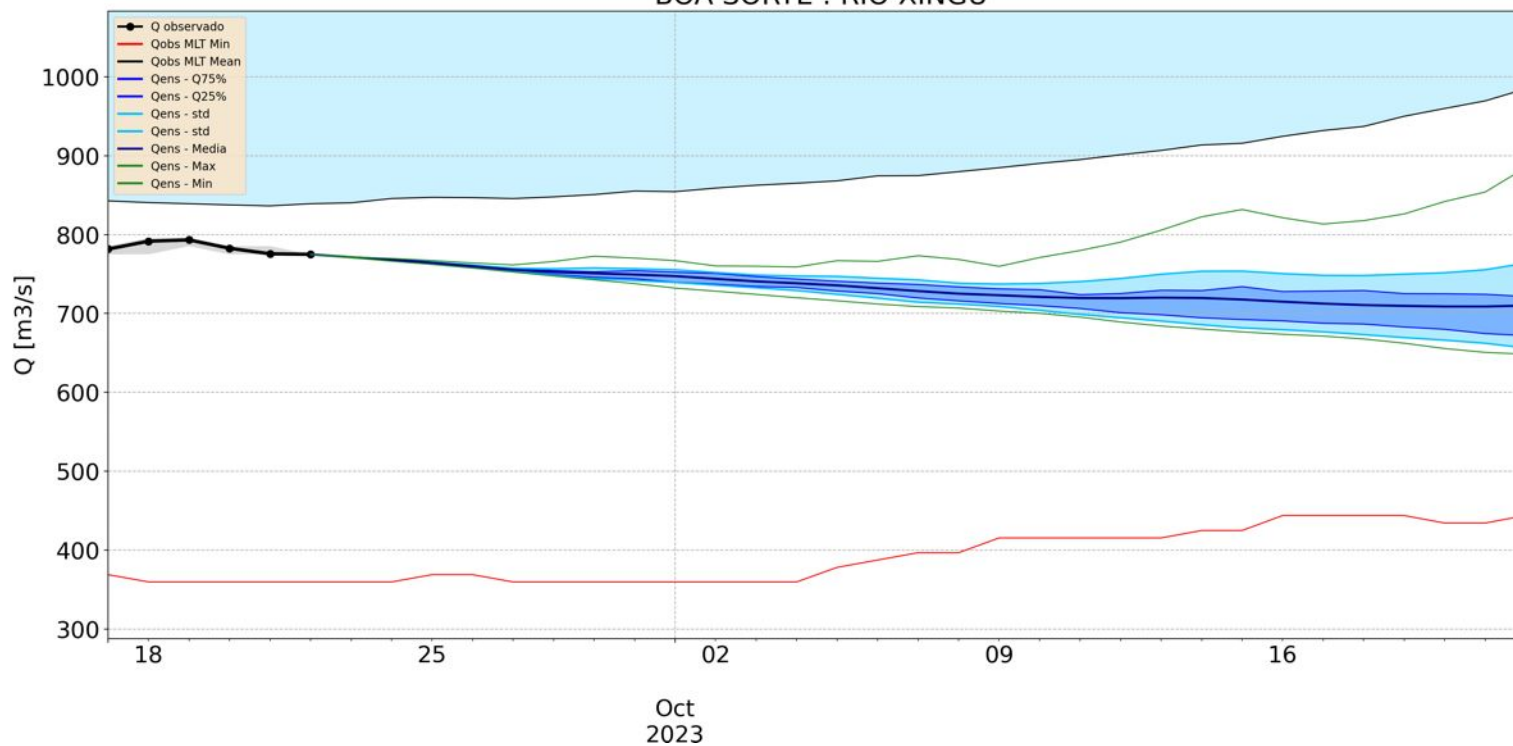
GloFAS
Seasonal
forecast
SOND



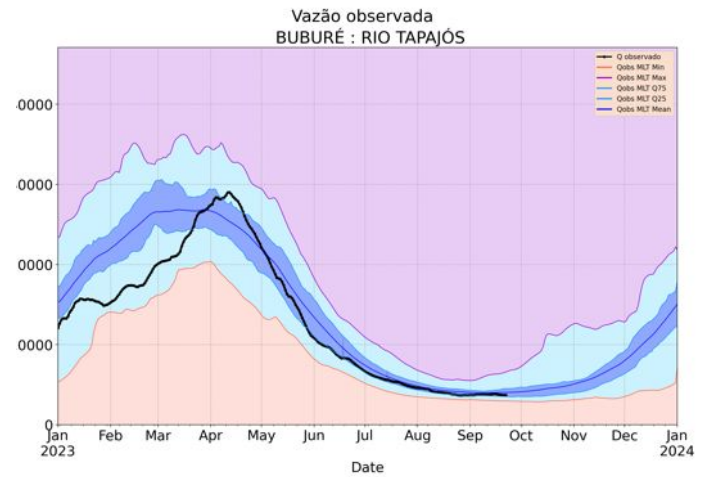
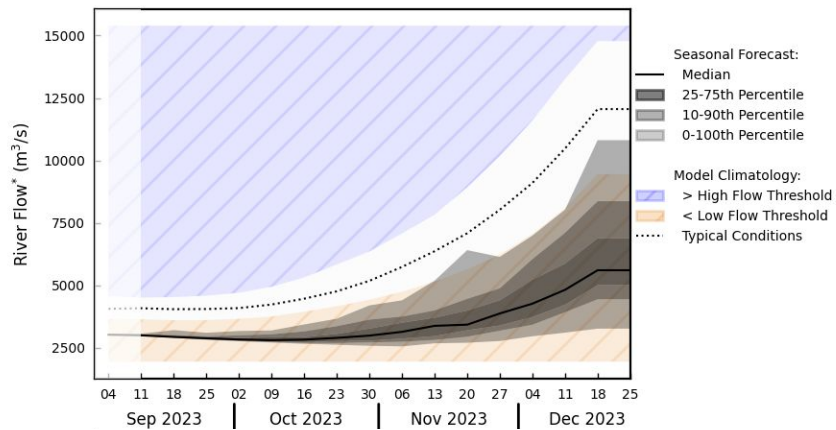
Previsão: 22/09/2023



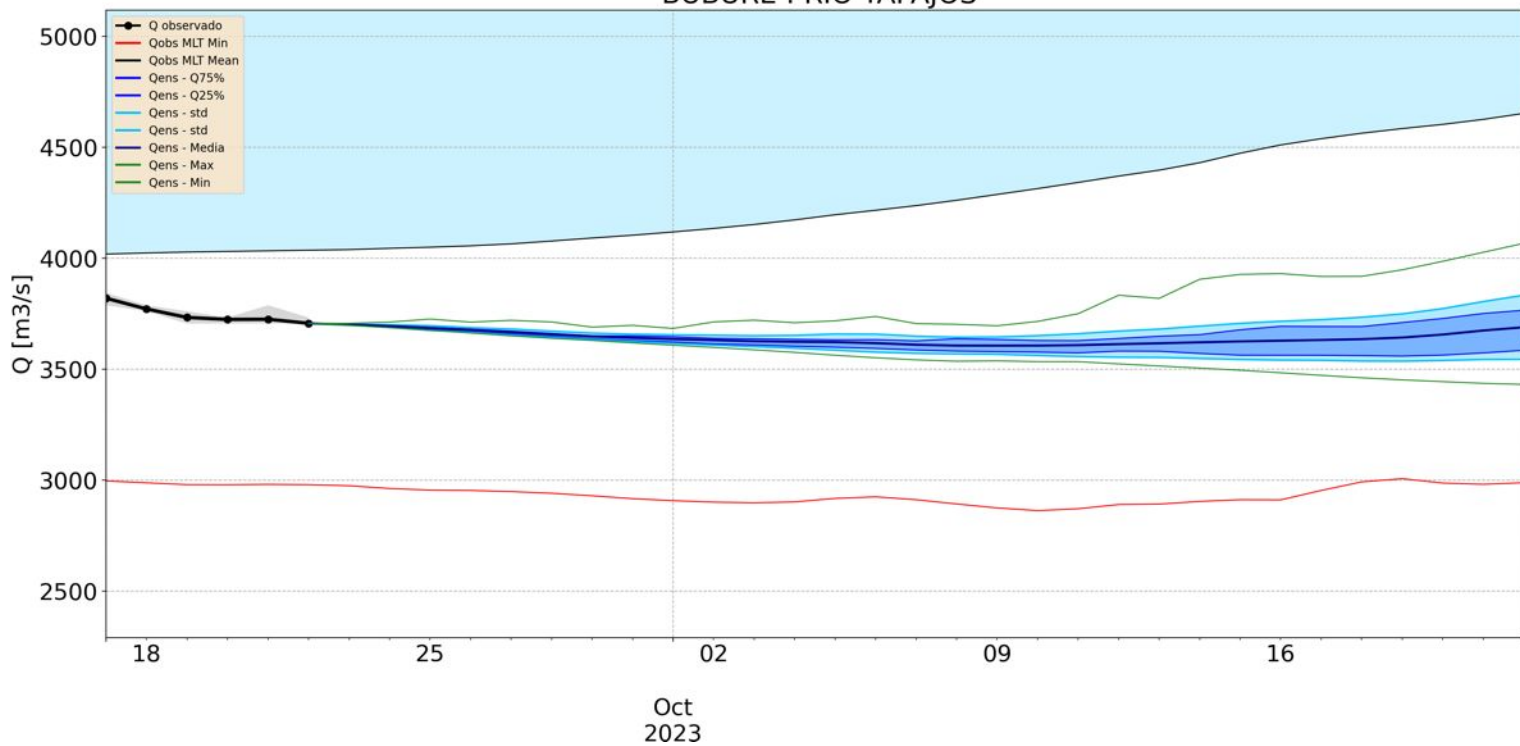
Model Run - 2023-09-22
BOA SORTE : RIO XINGU



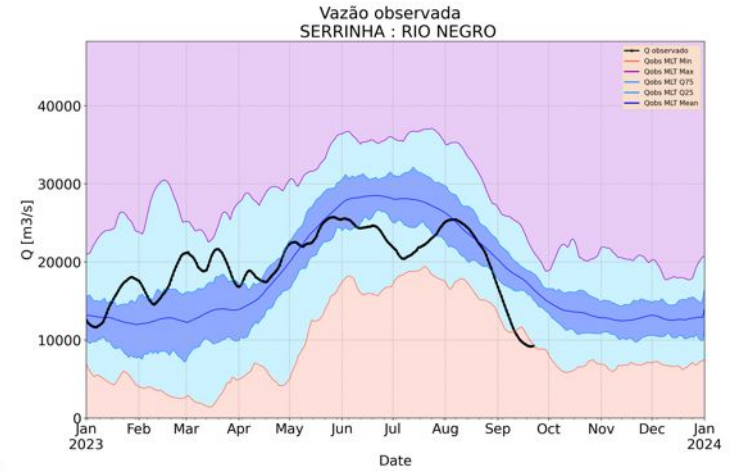
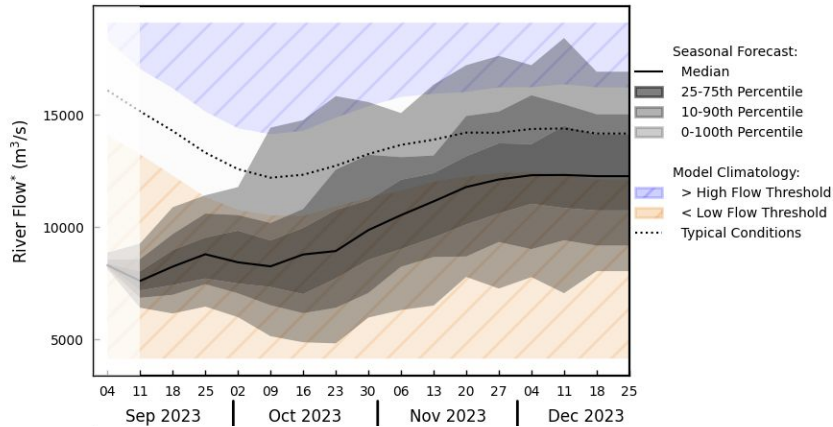
Previsão: 22/09/2023



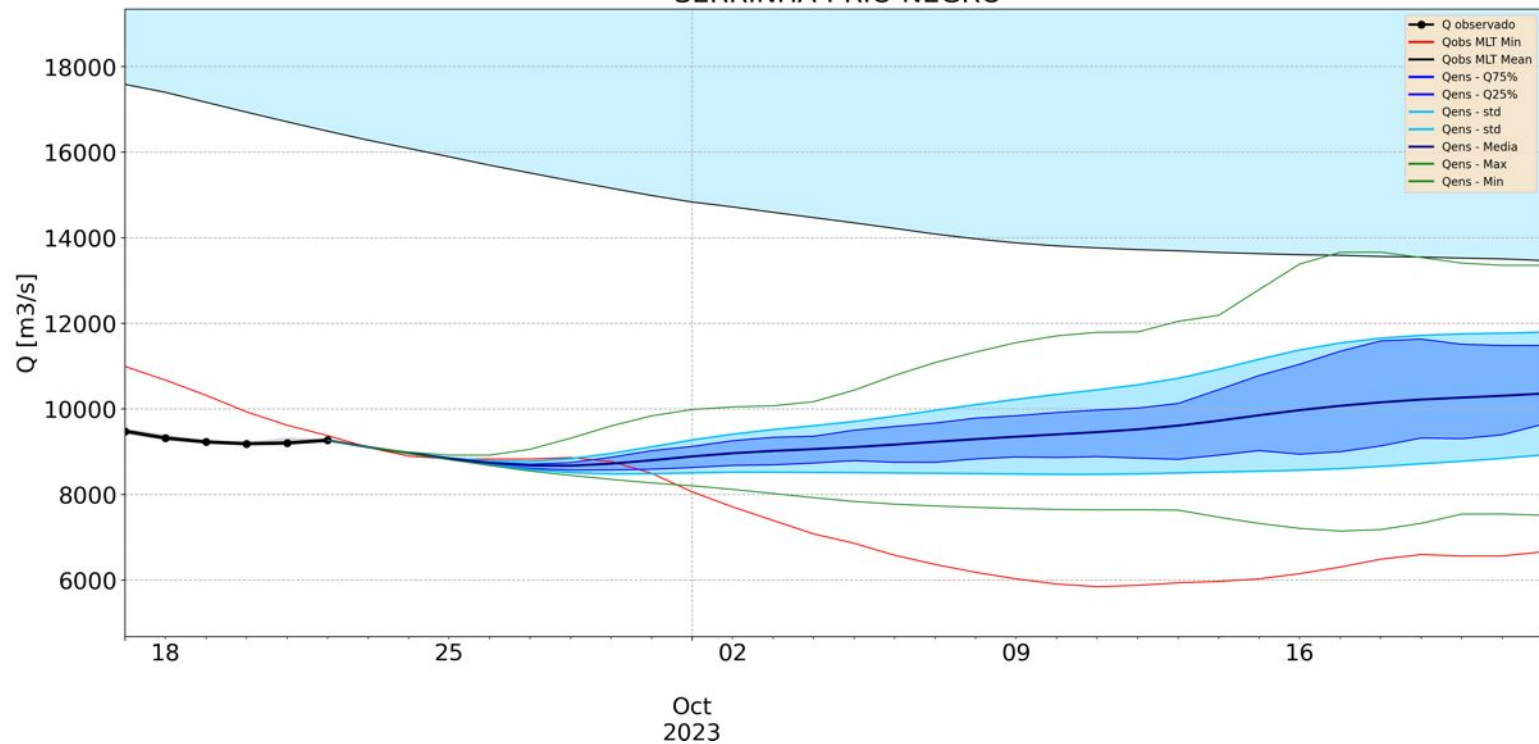
Model Run - 2023-09-22
BUBURÉ : RIO TAPAJÓS



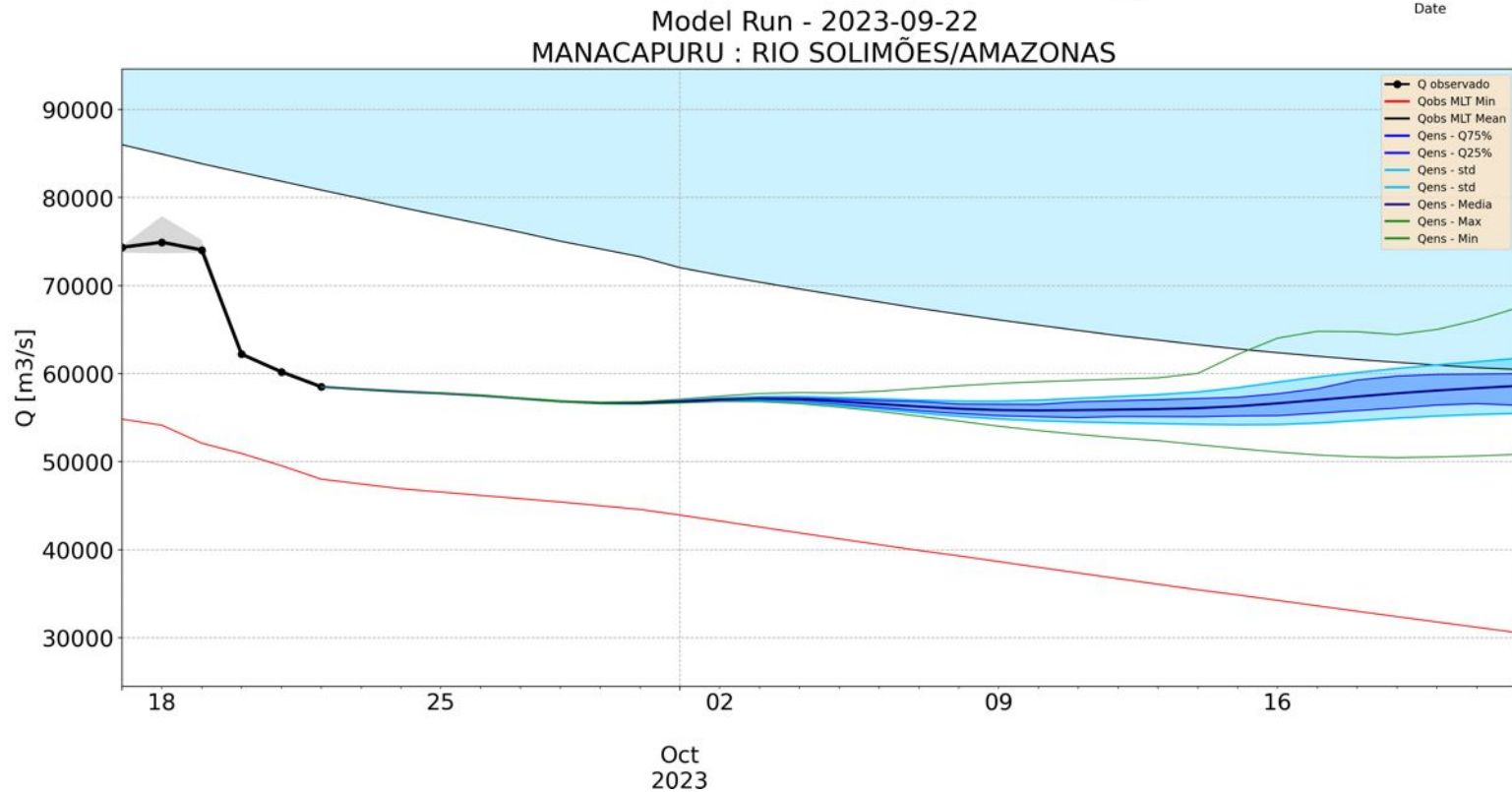
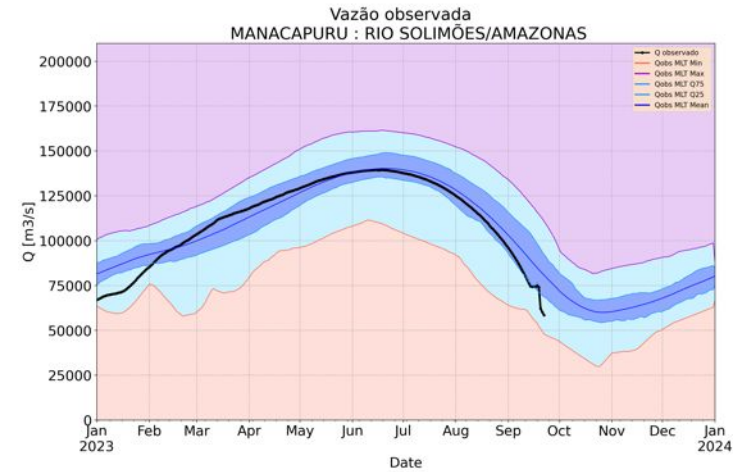
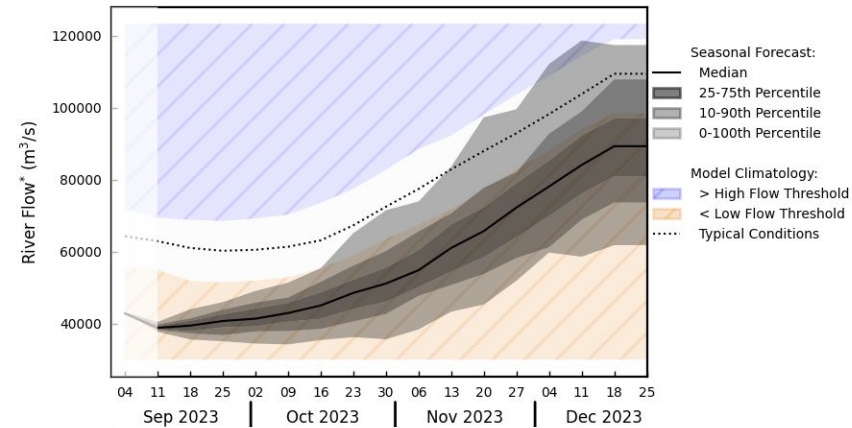
Previsão: 22/09/2023



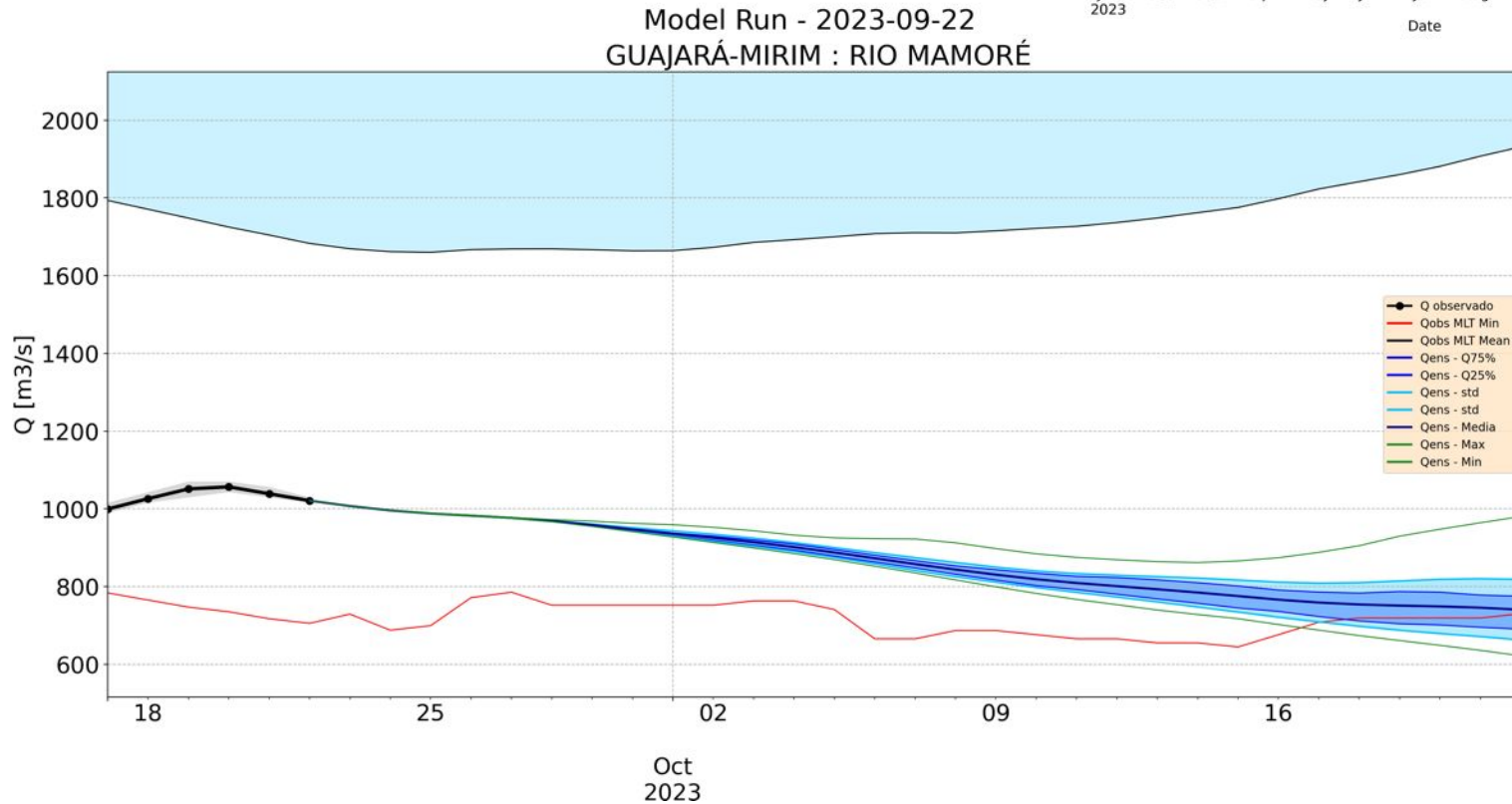
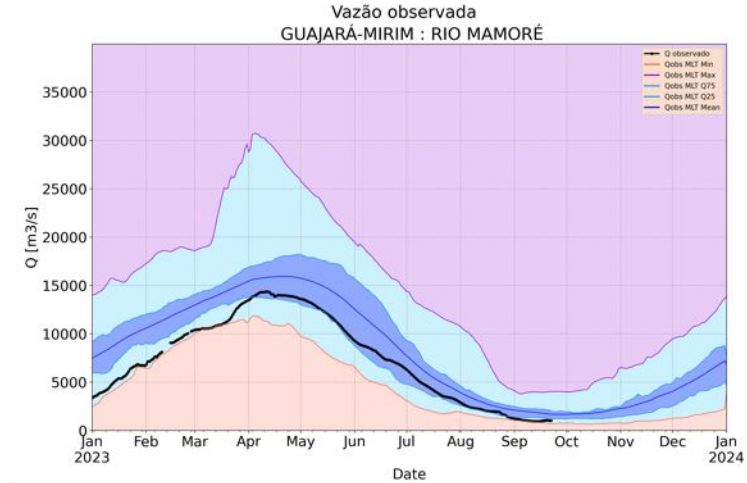
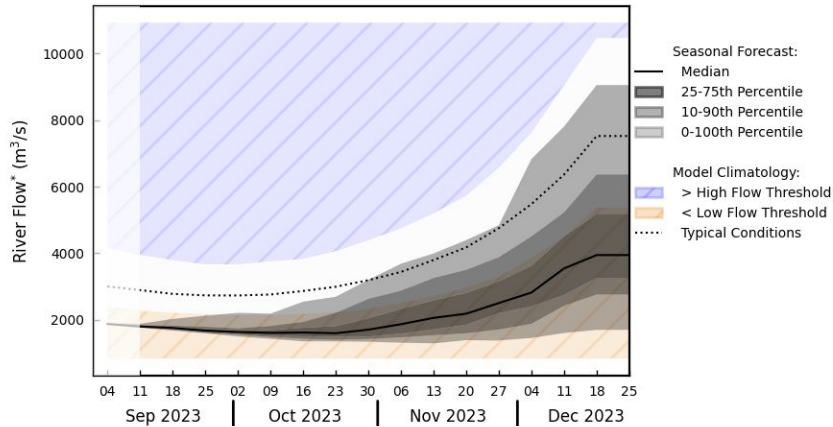
Model Run - 2023-09-22
SERRINHA : RIO NEGRO



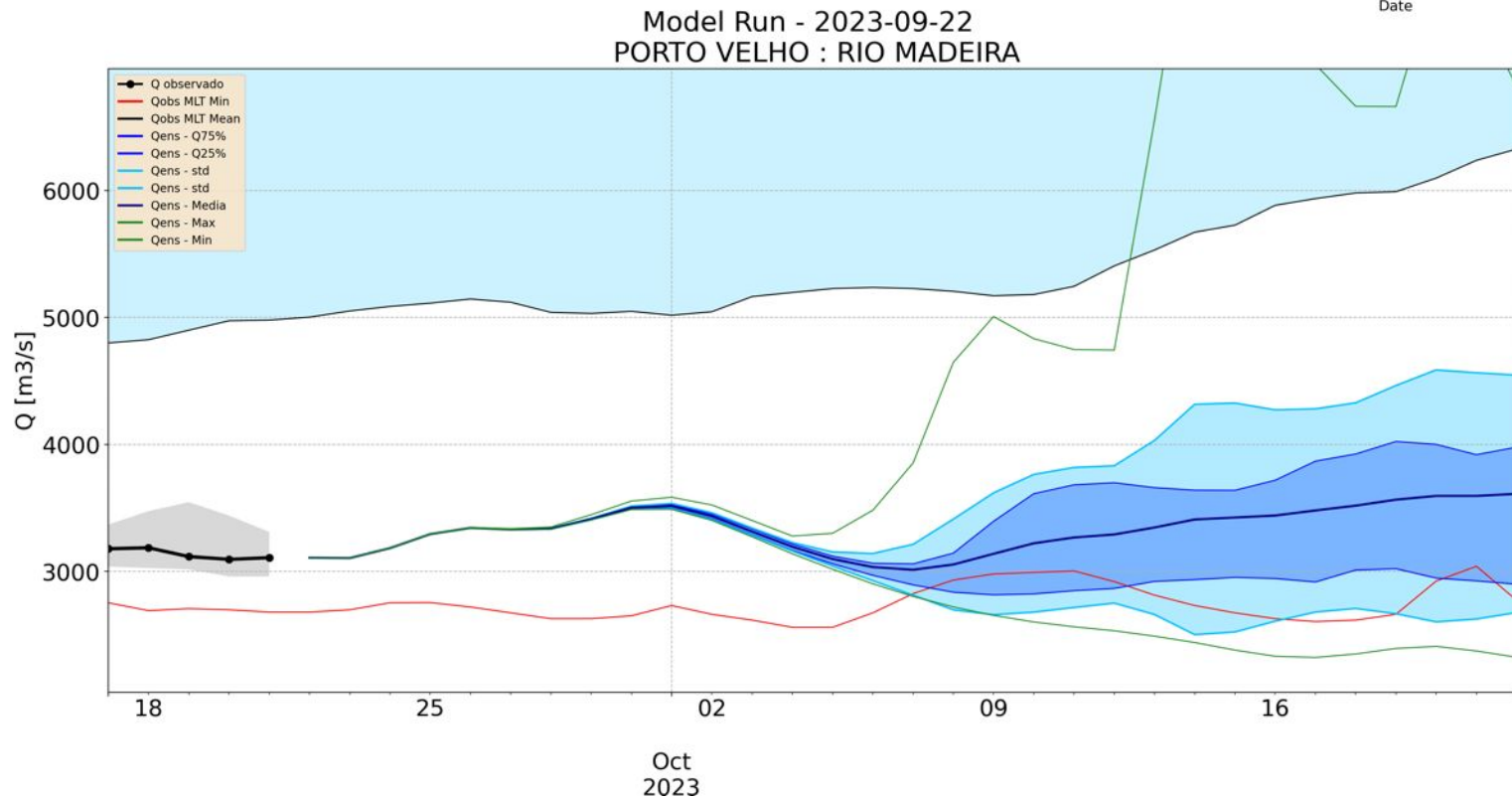
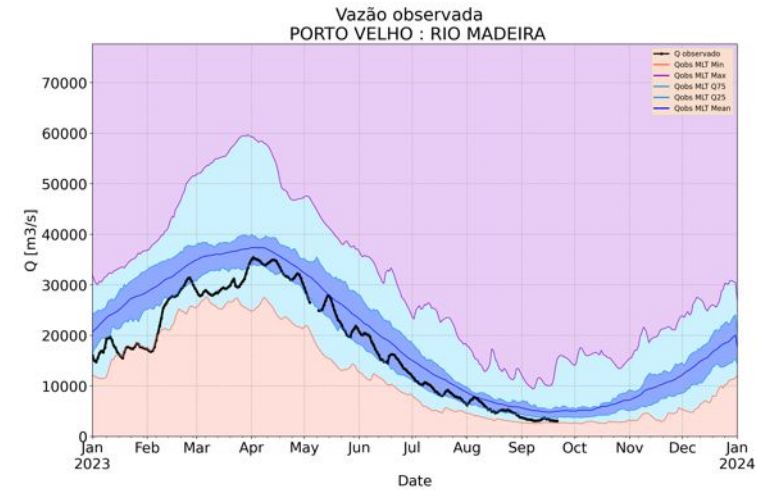
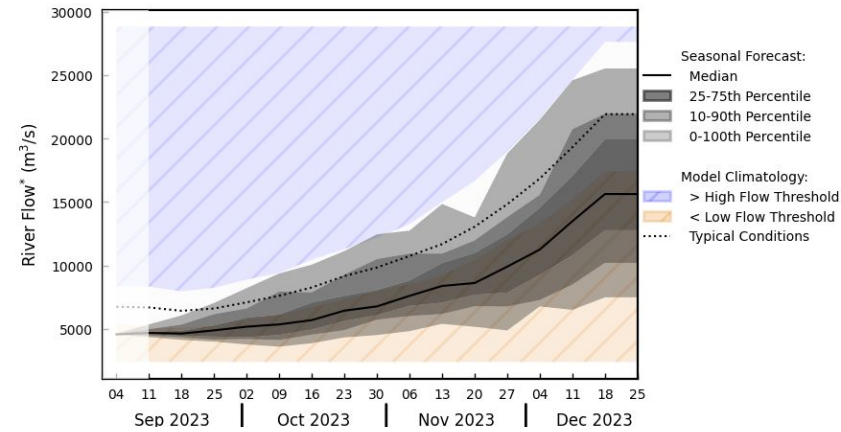
Previsão: 22/09/2023



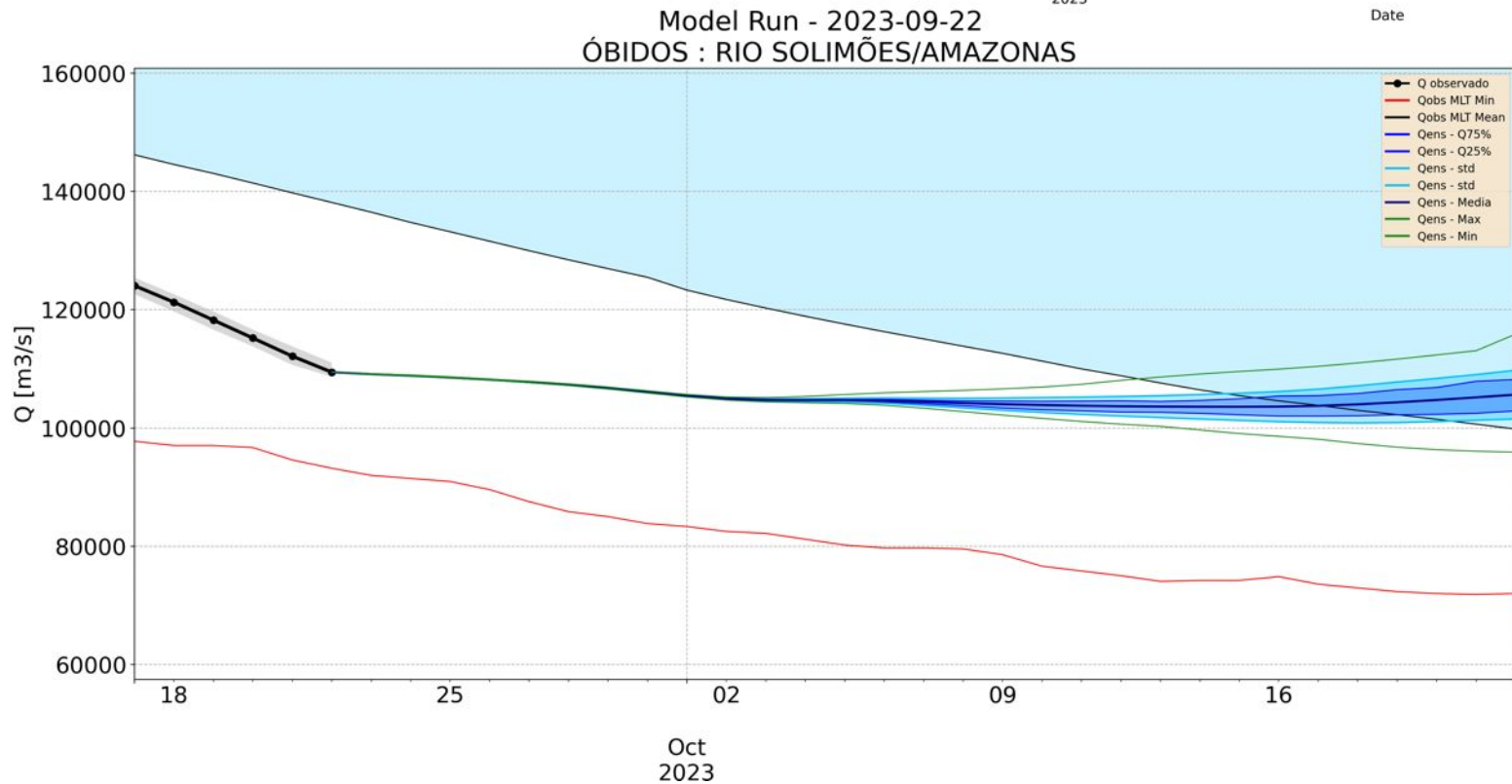
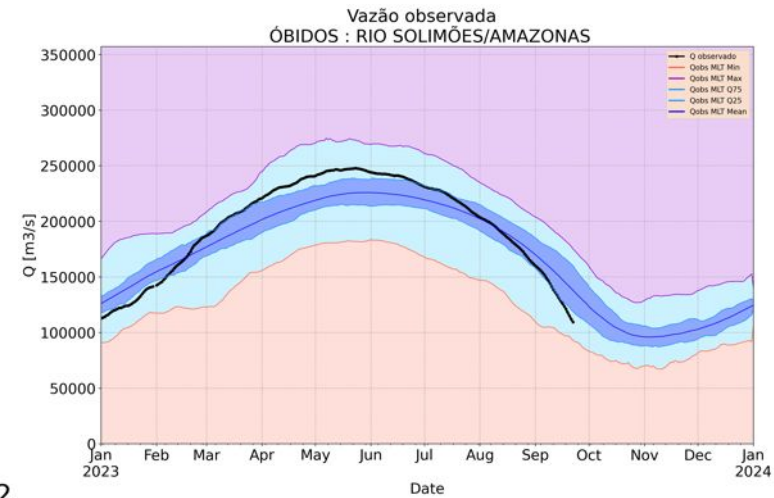
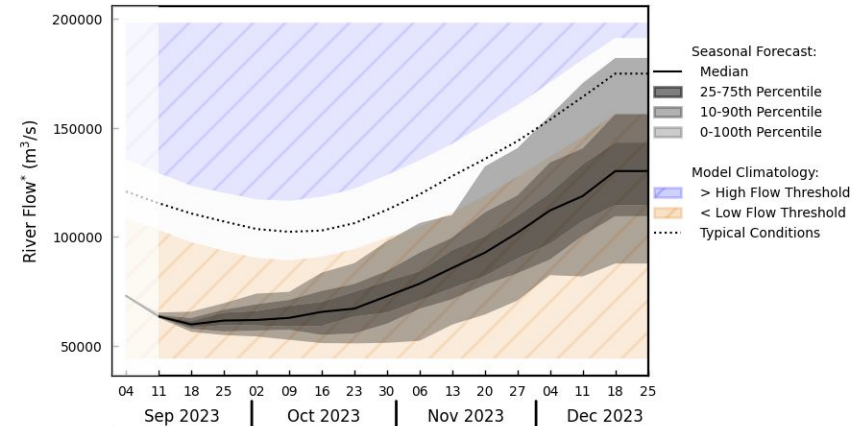
Previsão: 22/09/2023



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