



# CEMADEN

Centro Nacional de Monitoramento e  
Alertas de Desastres Naturais

## Sala de Acompanhamento da Região Norte

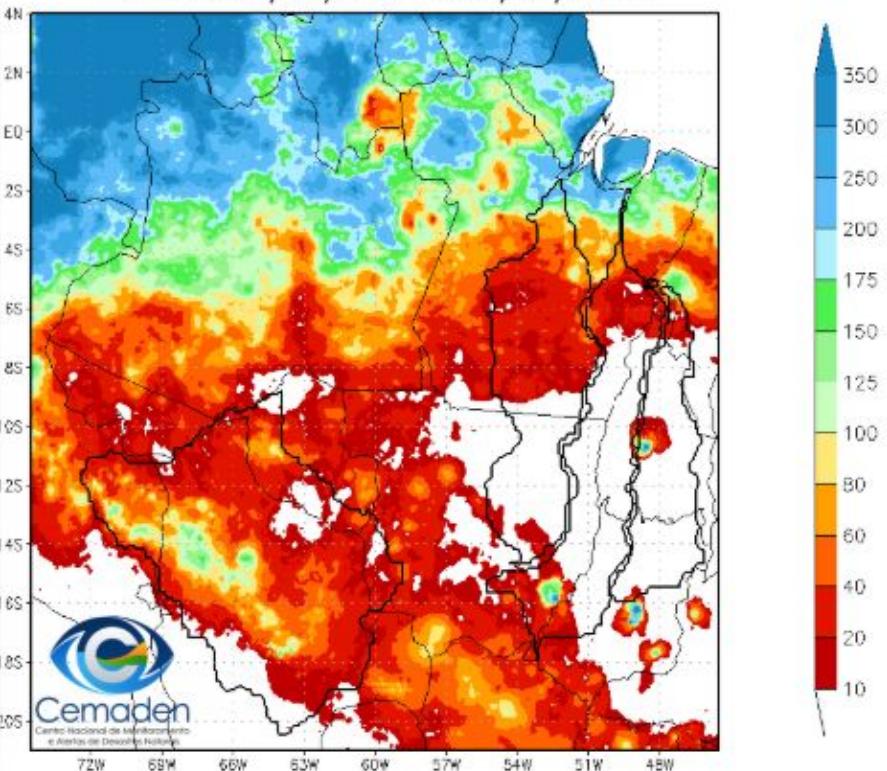
Márcio Moraes  
Marcelo Seluchi

CEMADEN/MCTI  
Junho de 2025

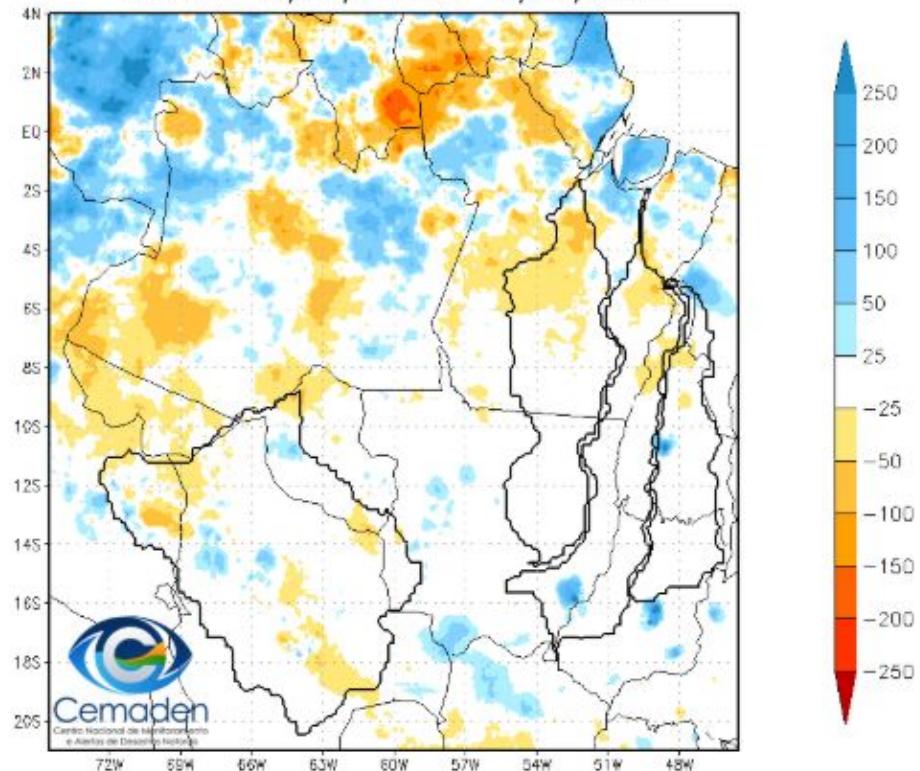


## PRECIPITAÇÃO : ÚLTIMOS 30 DIAS

Precipitação Acumulada (mm) A.S.  
Período: 24/05/2025 a 23/06/2025

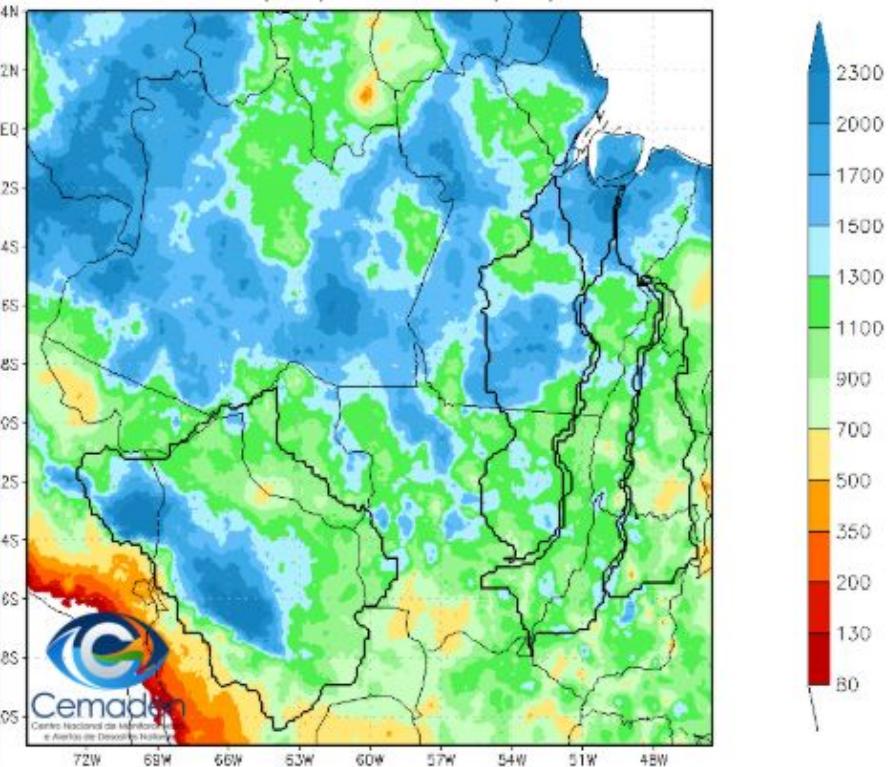


Anomalia de Precipitação (mm) A.S.  
Período: 24/05/2025 a 23/06/2025

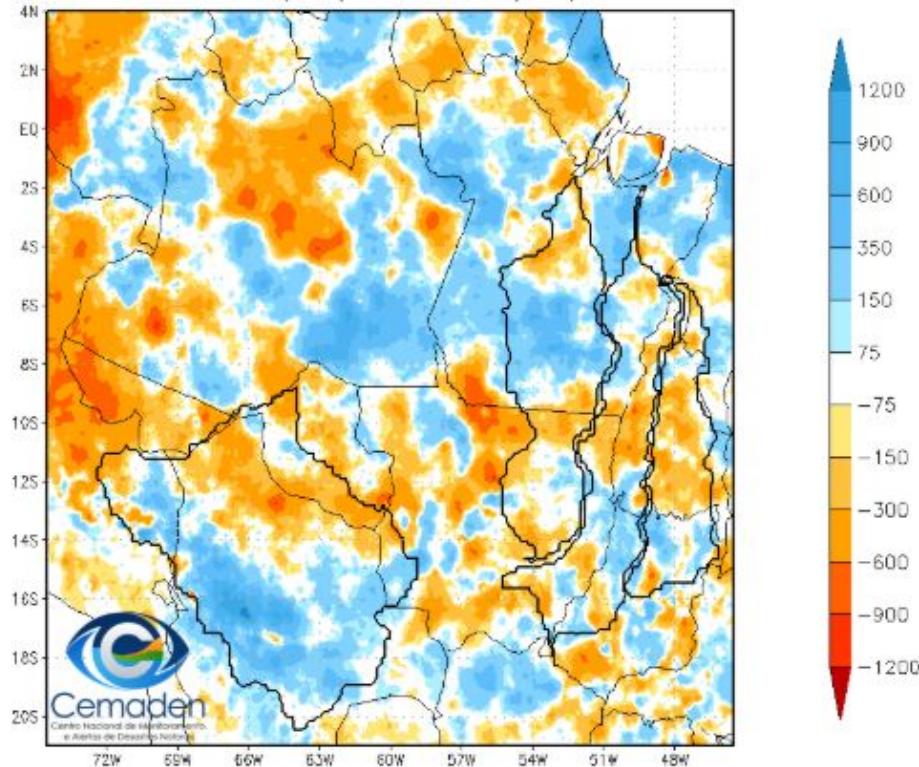


## PRECIPITAÇÃO DO ANO HIDROLÓGICO

Precipitação Acumulada (mm) A.S.  
Período: 01/10/2024 a 23/06/2025

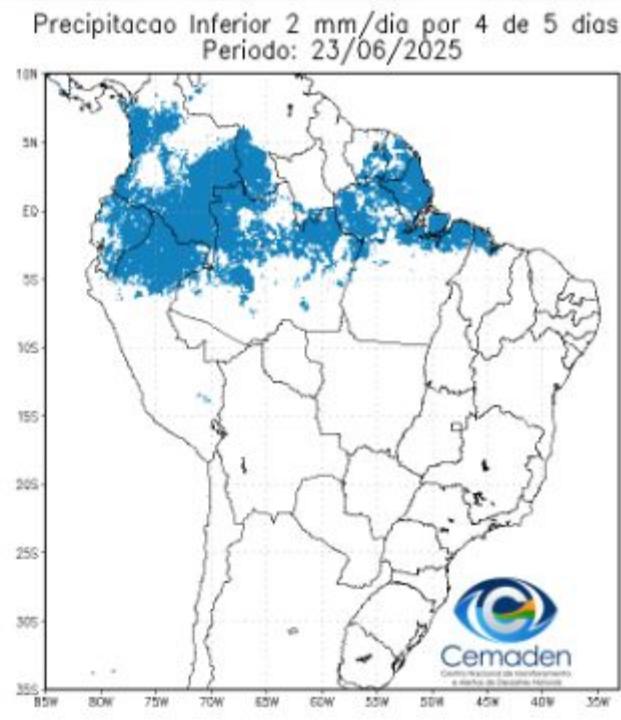
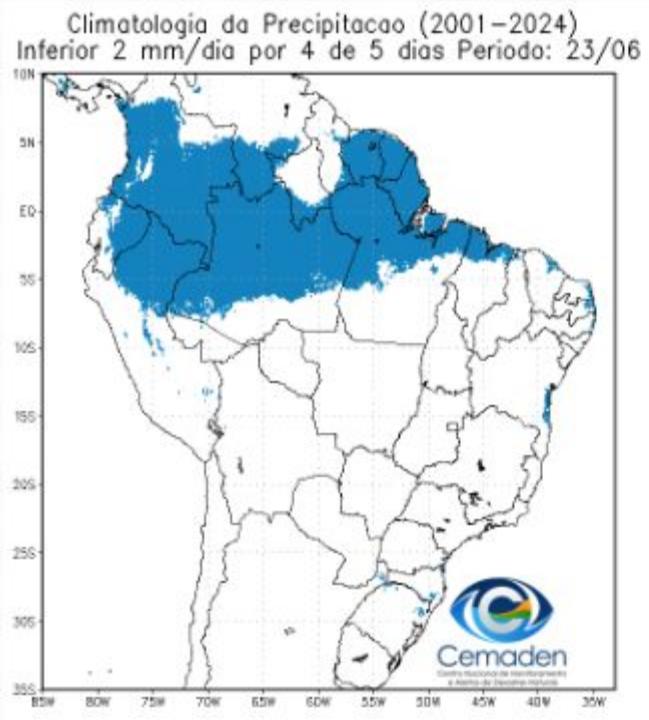


Anomalia de Precipitação (mm) A.S.  
Período: 01/10/2024 a 23/06/2025



FONTE DOS DADOS: MERGE/INPE

## SITUAÇÃO DA ESTAÇÃO CHUVOSA



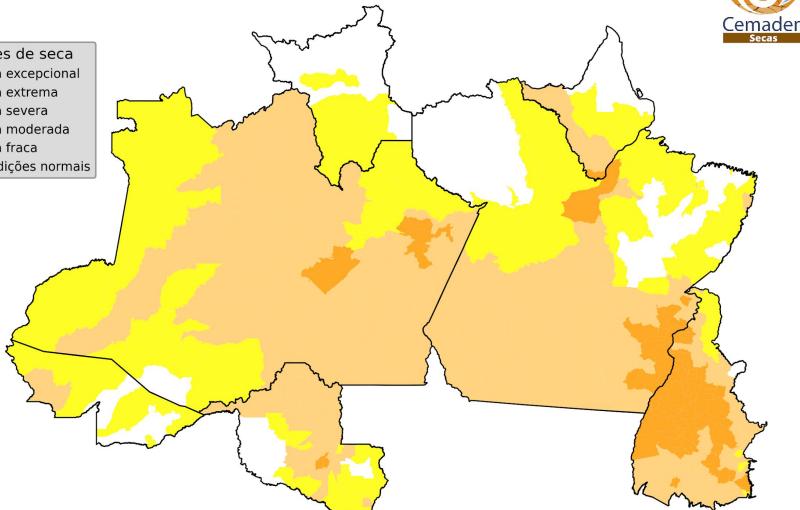
# ÍNDICE INTEGRADO DE SECA - IIS

## (SPI + VHI + AUS): MAIO/2025

IIS-03

Índice Integrado de Seca - 3 meses (IIS3)  
Maio 2025

- Classes de seca
- Seca excepcional
  - Seca extrema
  - Seca severa
  - Seca moderada
  - Seca fraca
  - Condições normais



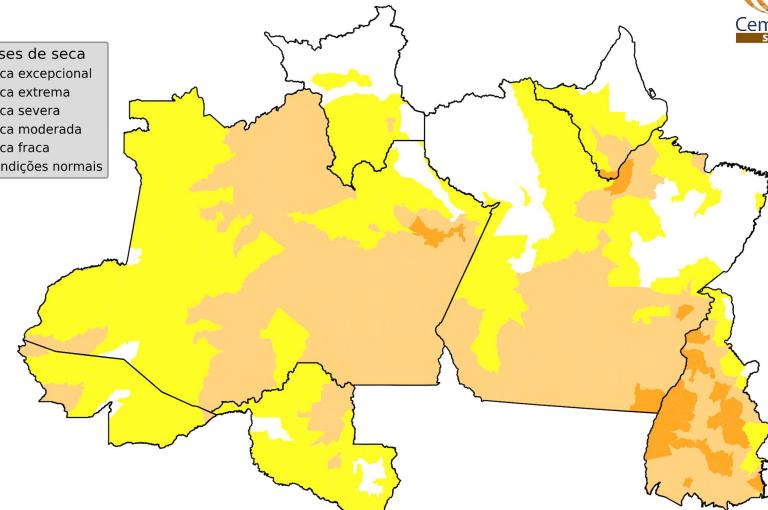
Número de municípios  
por classes de seca:  
Seca excepcional: 0 ( 0.0%)  
Seca extrema: 0 ( 0.0%)  
Seca severa: 92 (20.4%)  
Seca moderada: 134 (29.8%)  
Seca fraca: 148 (32.9%)  
Condições normais: 76 (16.9%)

Fonte: Cemaden/MCTI

IIS-06

Índice Integrado de Seca - 6 meses (IIS6)  
Maio 2025

- Classes de seca
- Seca excepcional
  - Seca extrema
  - Seca severa
  - Seca moderada
  - Seca fraca
  - Condições normais



Número de municípios  
por classes de seca:  
Seca excepcional: 0 ( 0.0%)  
Seca extrema: 0 ( 0.0%)  
Seca severa: 49 (10.9%)  
Seca moderada: 143 (31.8%)  
Seca fraca: 161 (35.8%)  
Condições normais: 97 (21.6%)

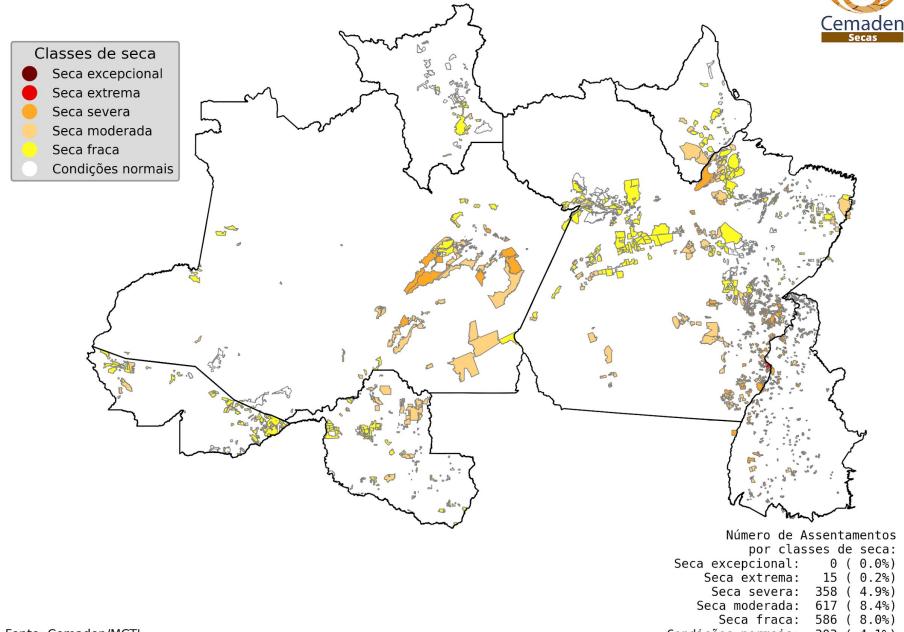
Fonte: Cemaden/MCTI

## ÍNDICE INTEGRADO DE SECA (IIS-03)

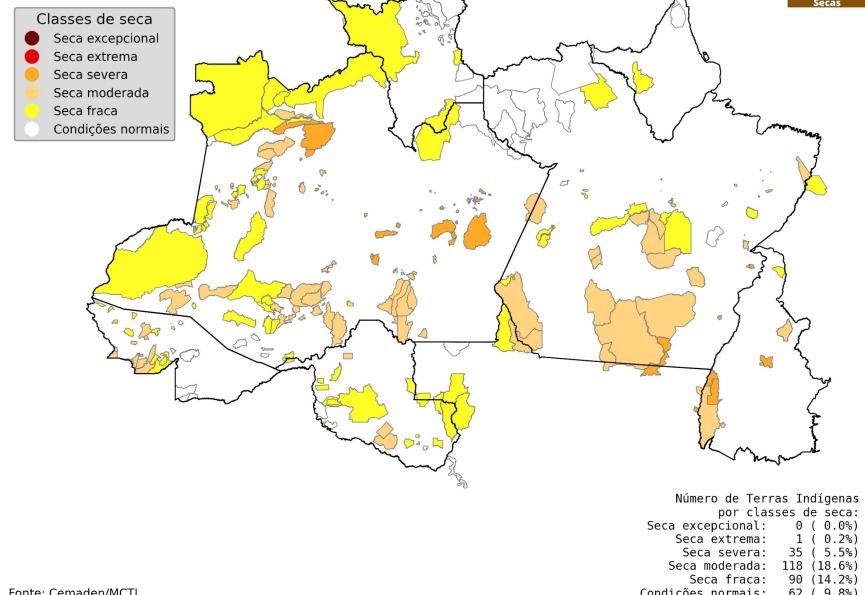
### PROJETOS DE ASSENTAMENTO

### TERRAS INDÍGENAS

Índice Integrado de Seca - 3 meses (IIS3)  
Maio 2025

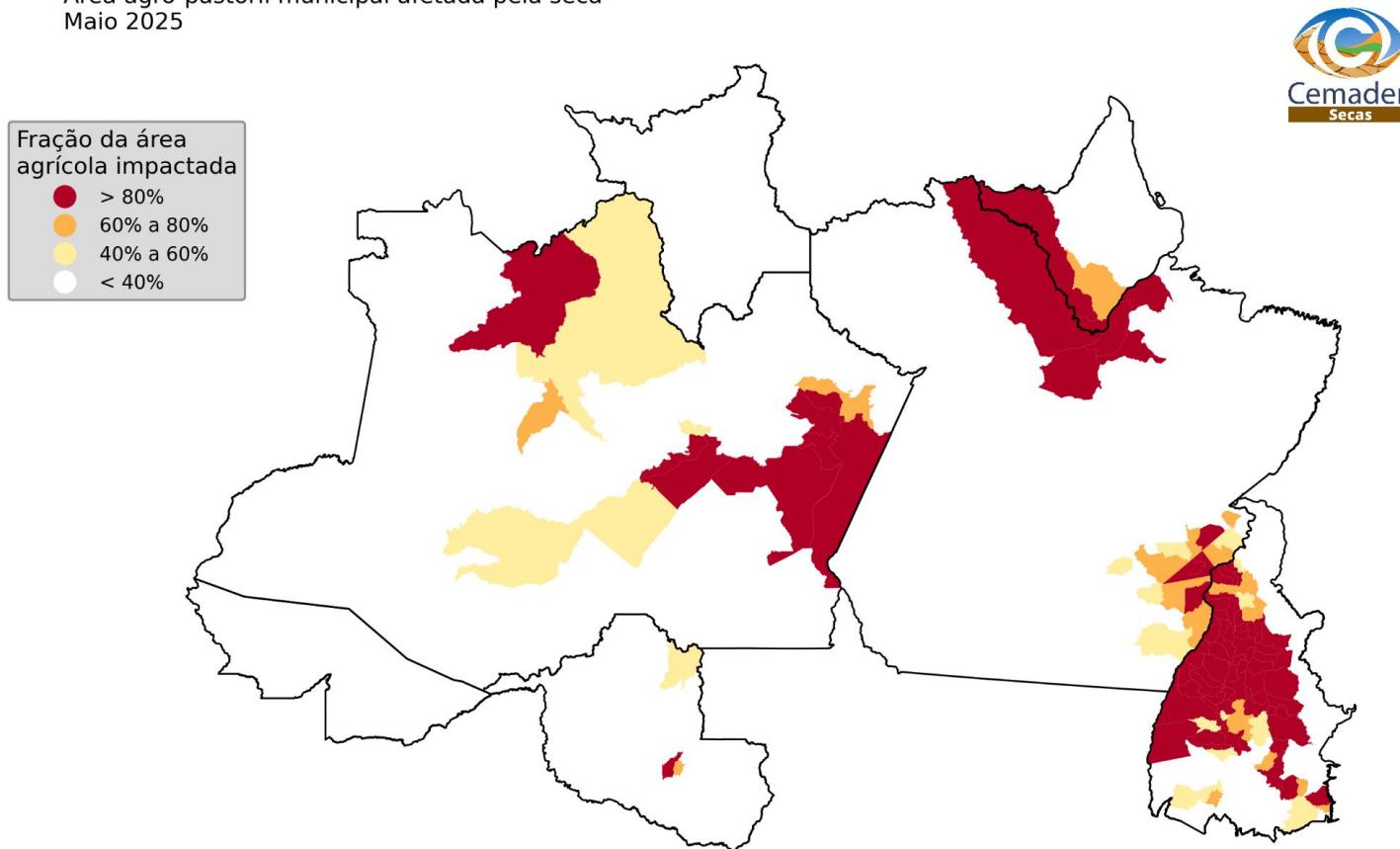


Índice Integrado de Seca - 3 meses (IIS3)  
Maio 2025



## ÁREAS DE PASTAGENS E AGRÍCOLAS AFETADAS PELA SECA

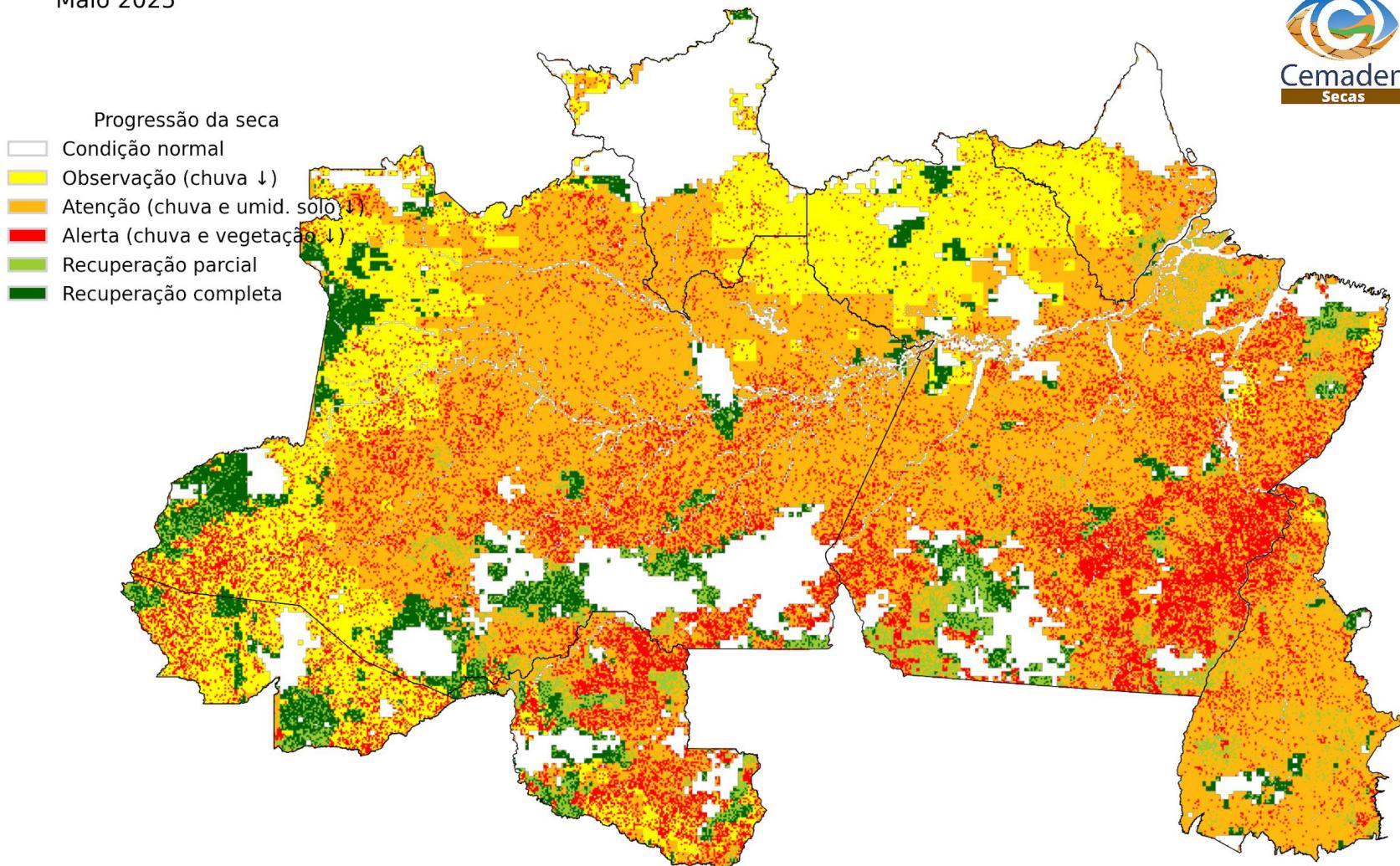
Área agro-pastoril municipal afetada pela seca  
Maio 2025



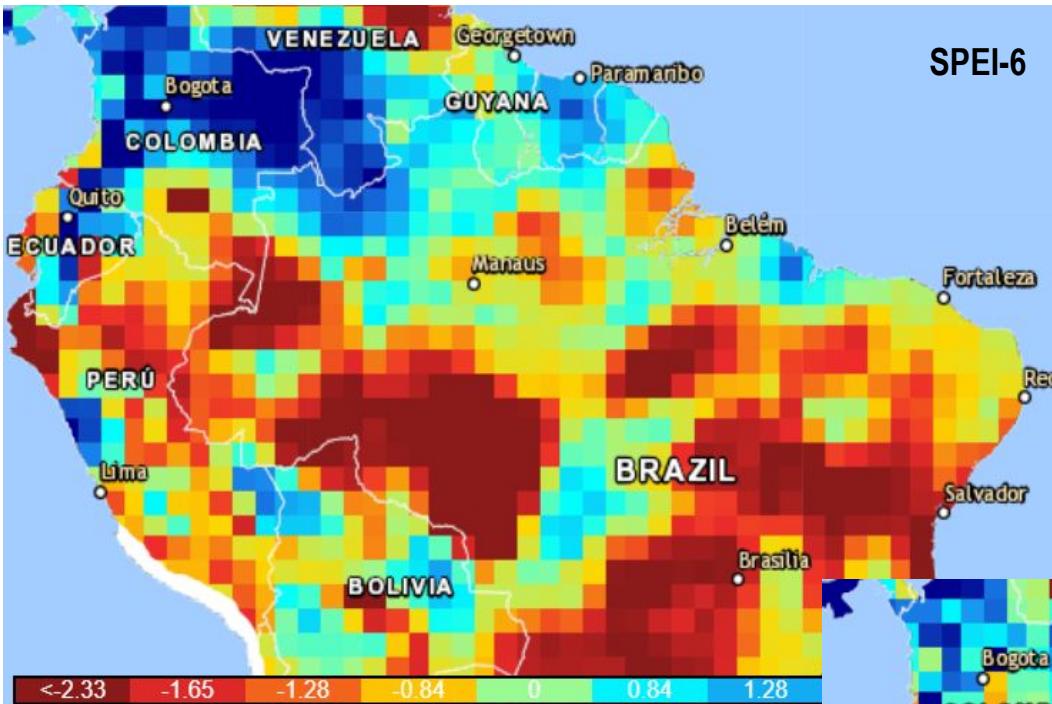
Fonte: Cemaden/MCTI

## PROGRESSÃO INCREMENTAL DAS CONDIÇÕES DE SECA (PICS)

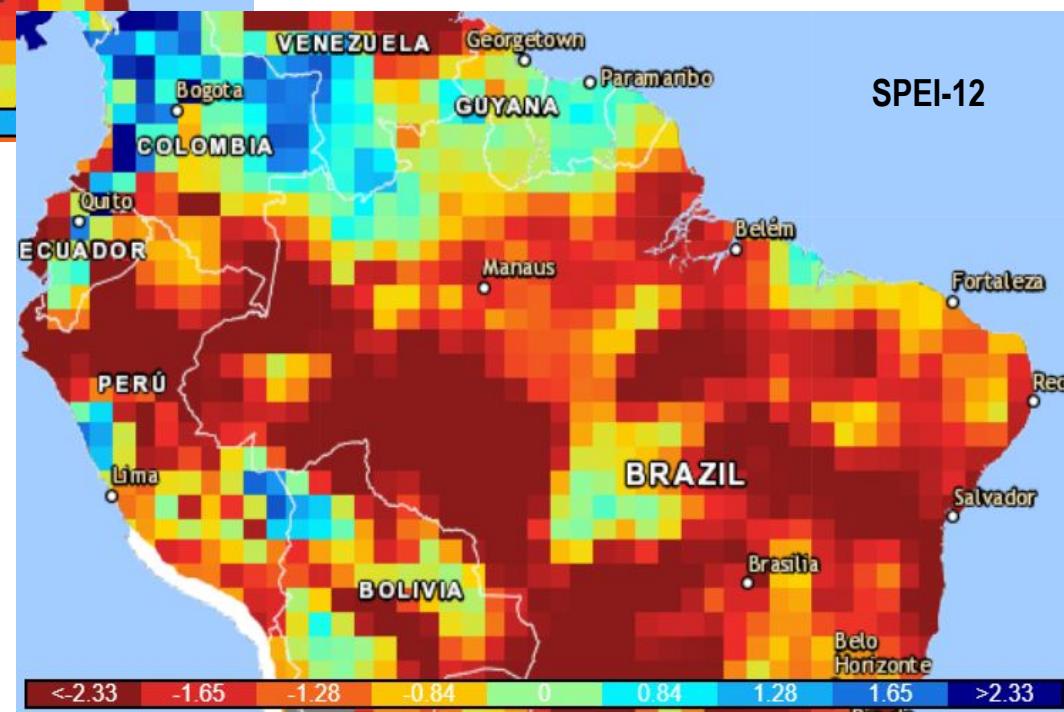
Progressão e Intensificação das Condições de Seca (PICS)  
Maio 2025



# Índice Padronizado de Precipitação – Evapotranspiração Potencial (SPEI)



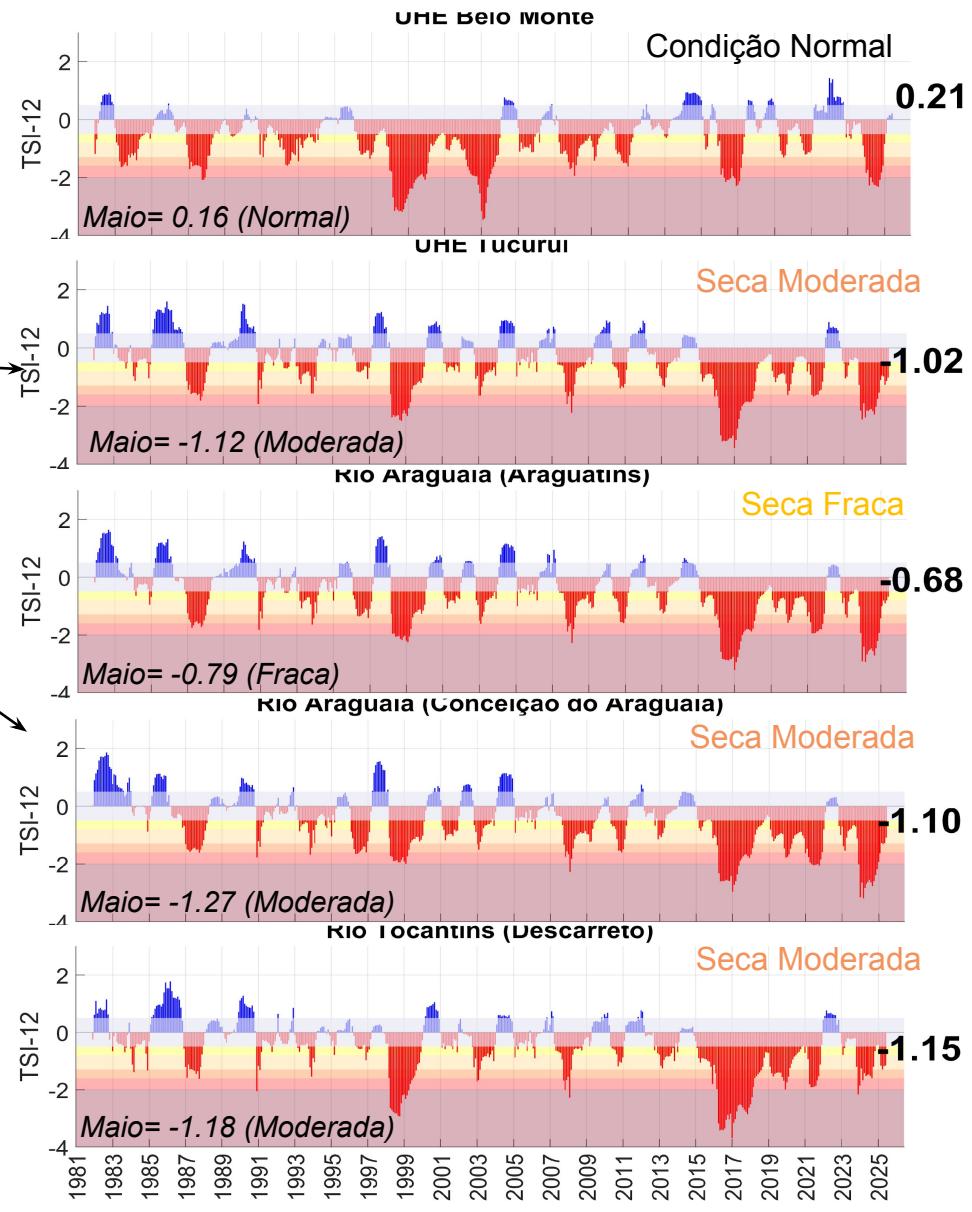
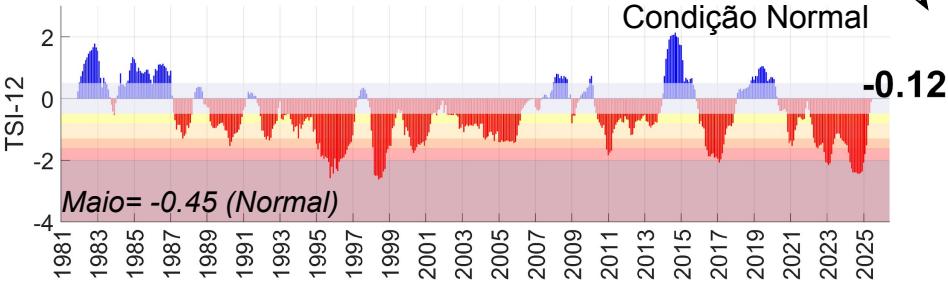
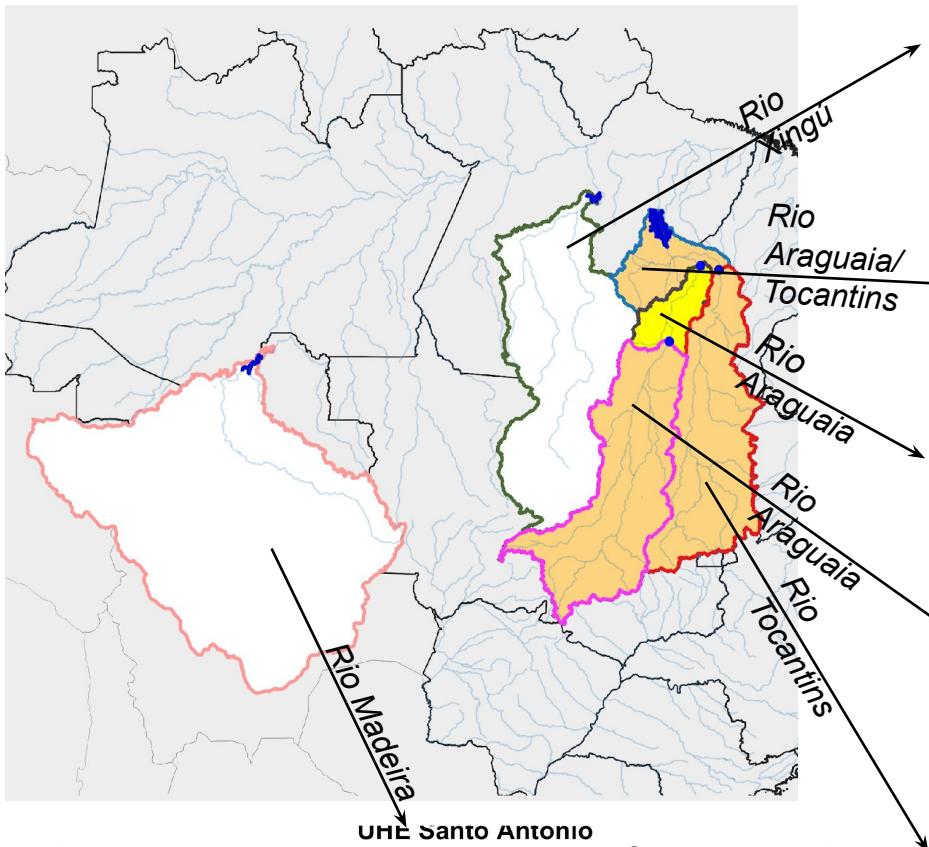
Maio/2025



# Índice Bivariado de Seca (Precipitação-Cota/Vazão) - TSI

## Escala de Longo Prazo: TSI-12 meses

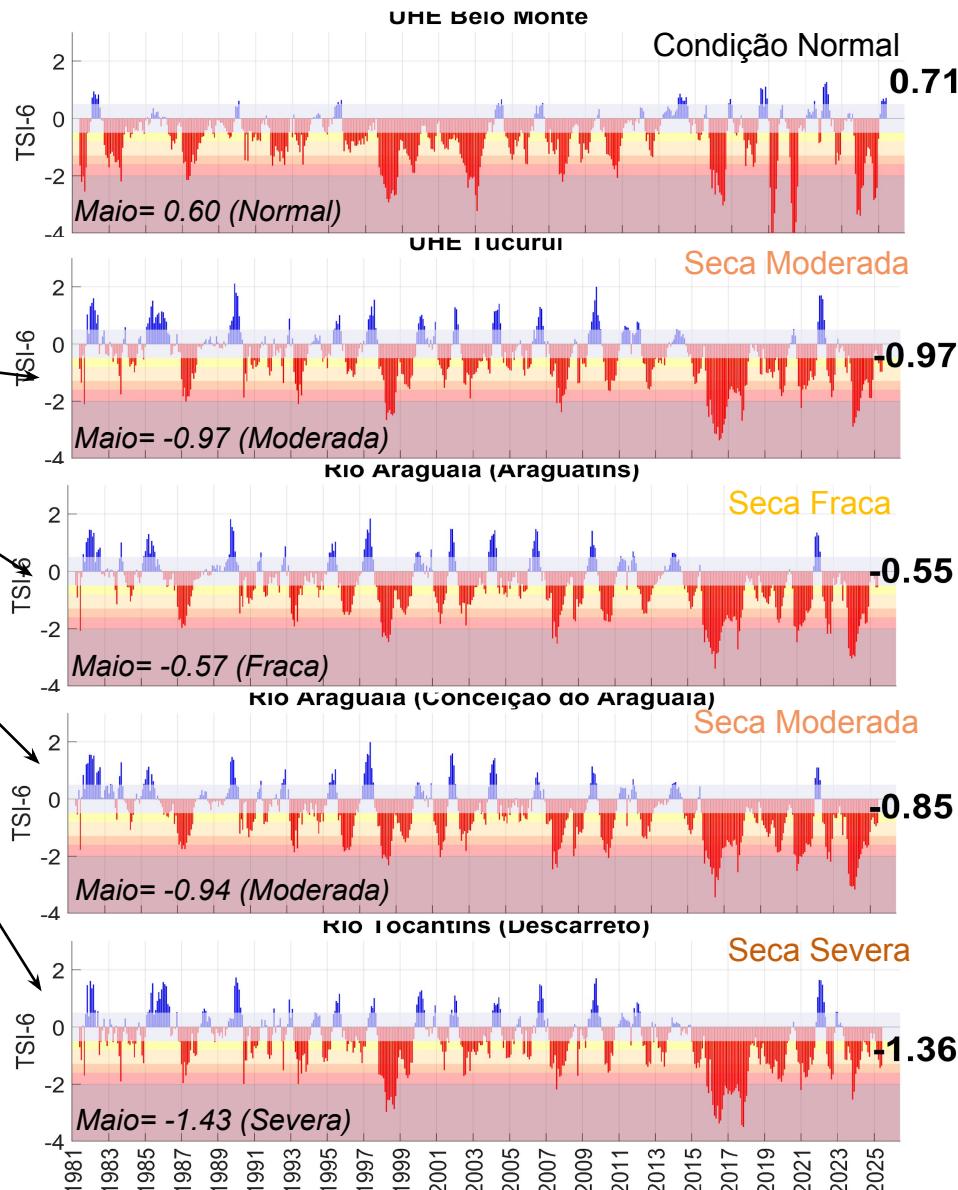
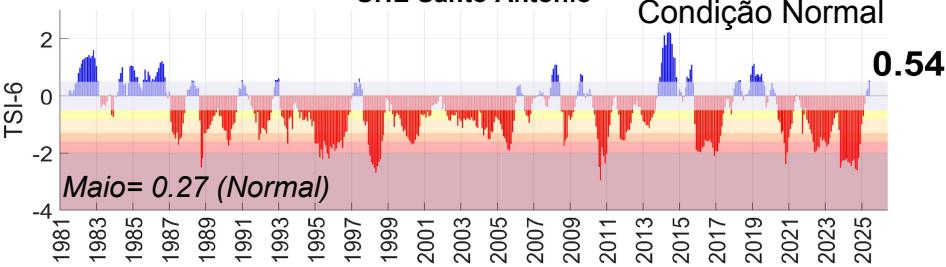
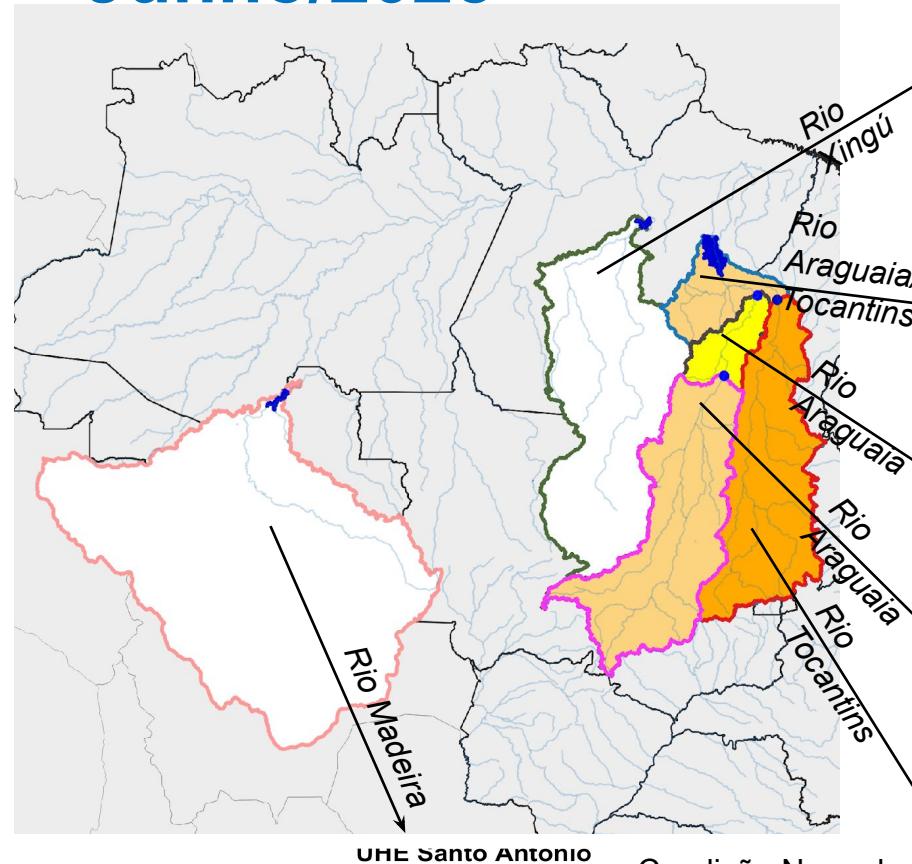
**Junho/2025**



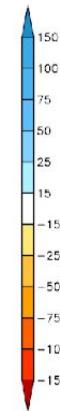
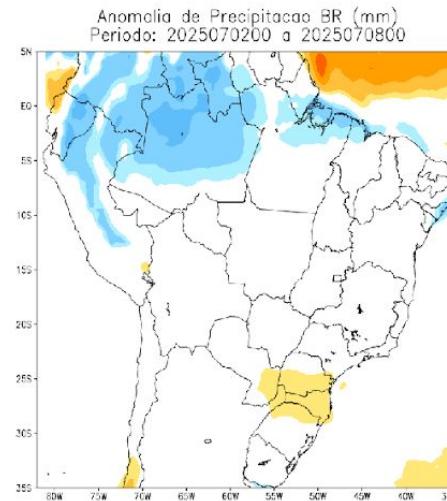
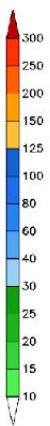
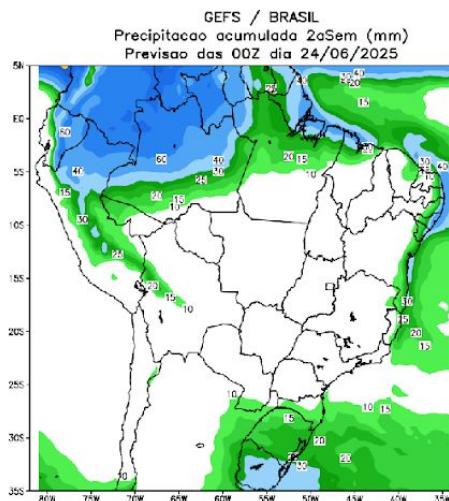
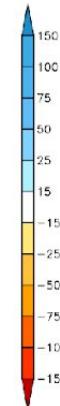
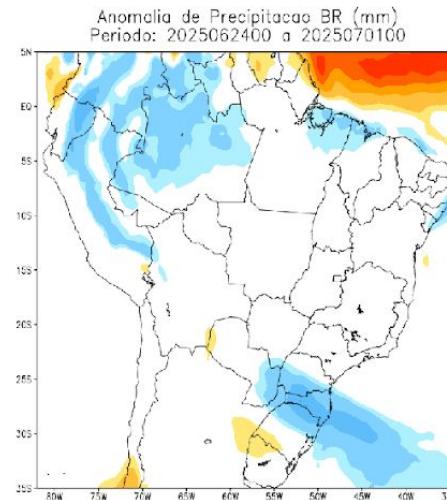
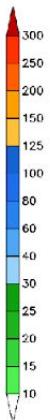
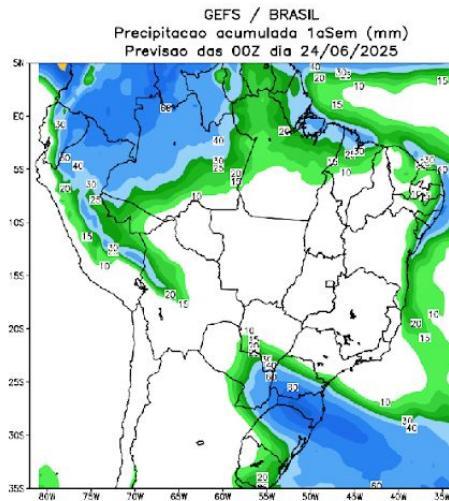
# Índice Bivariado de Seca (Precipitação-Cota/Vazão) - TSI

## Escala de Curto Prazo: TSI-6 meses

**Junho/2025**



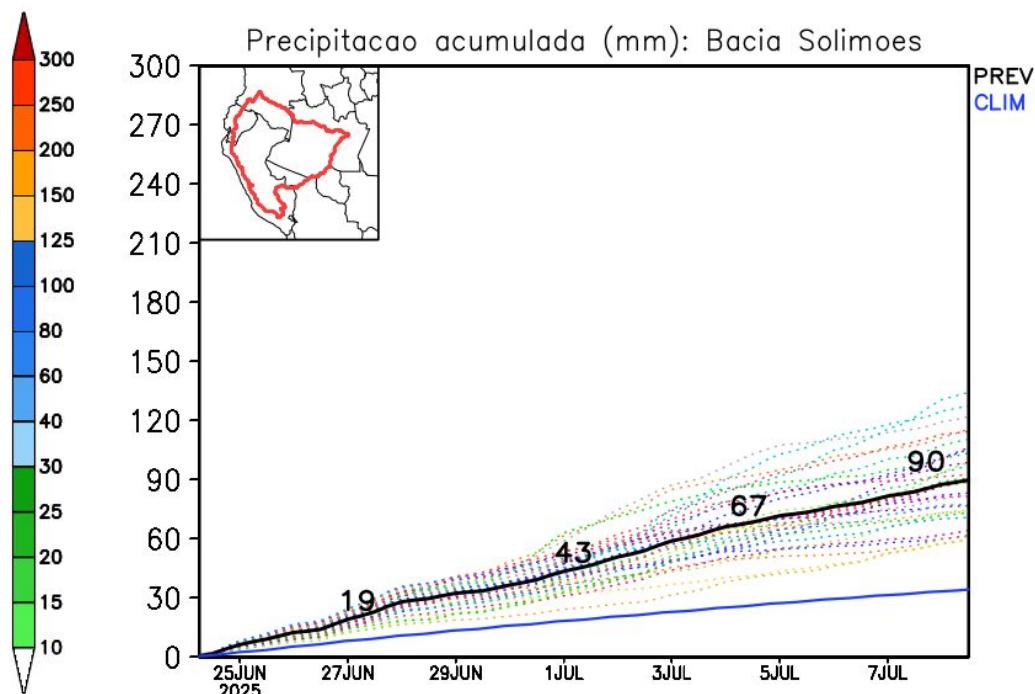
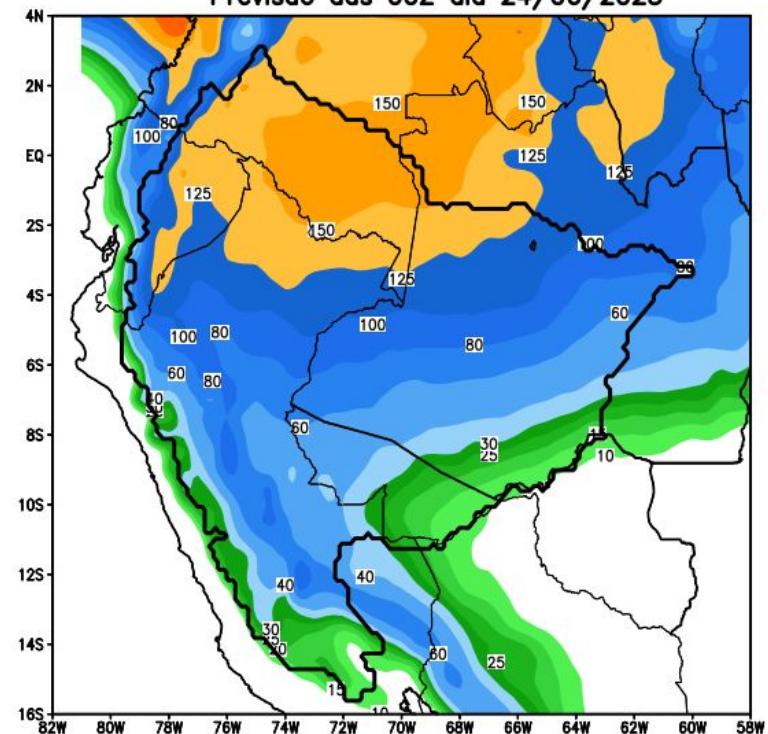
## Previsão de chuva próximas duas semanas



## Previsão de chuva próximas duas semanas

### Rio Solimões

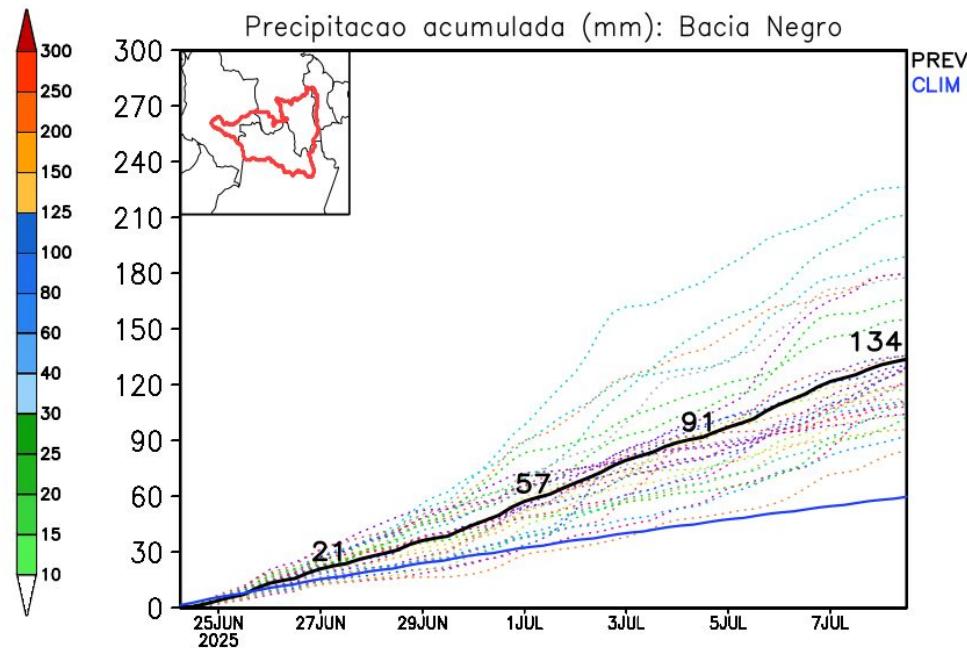
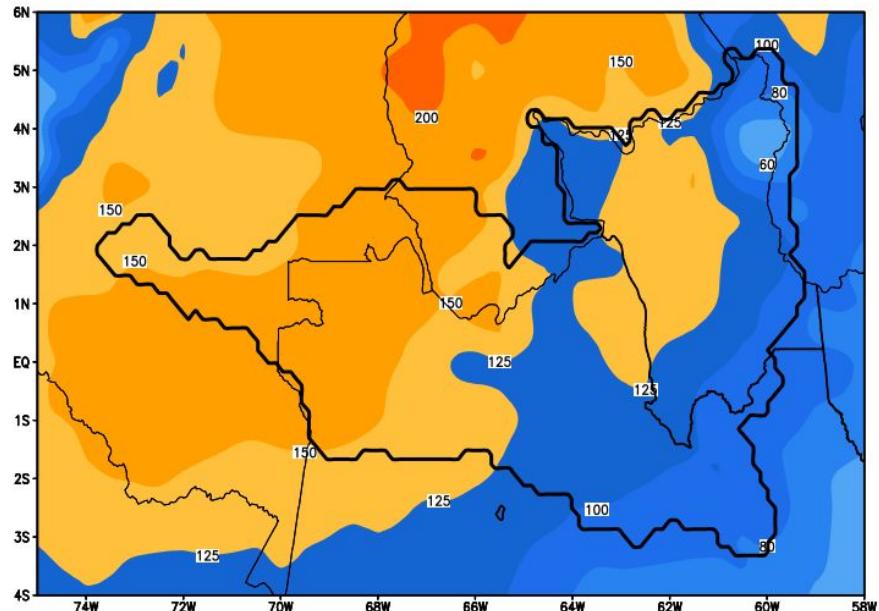
GEFS / Bacia do Rio Solimões  
Precipitação acumulada em 14 dias (mm)  
Previsão das 00Z dia 24/06/2025



## Previsão de chuva próximas duas semanas

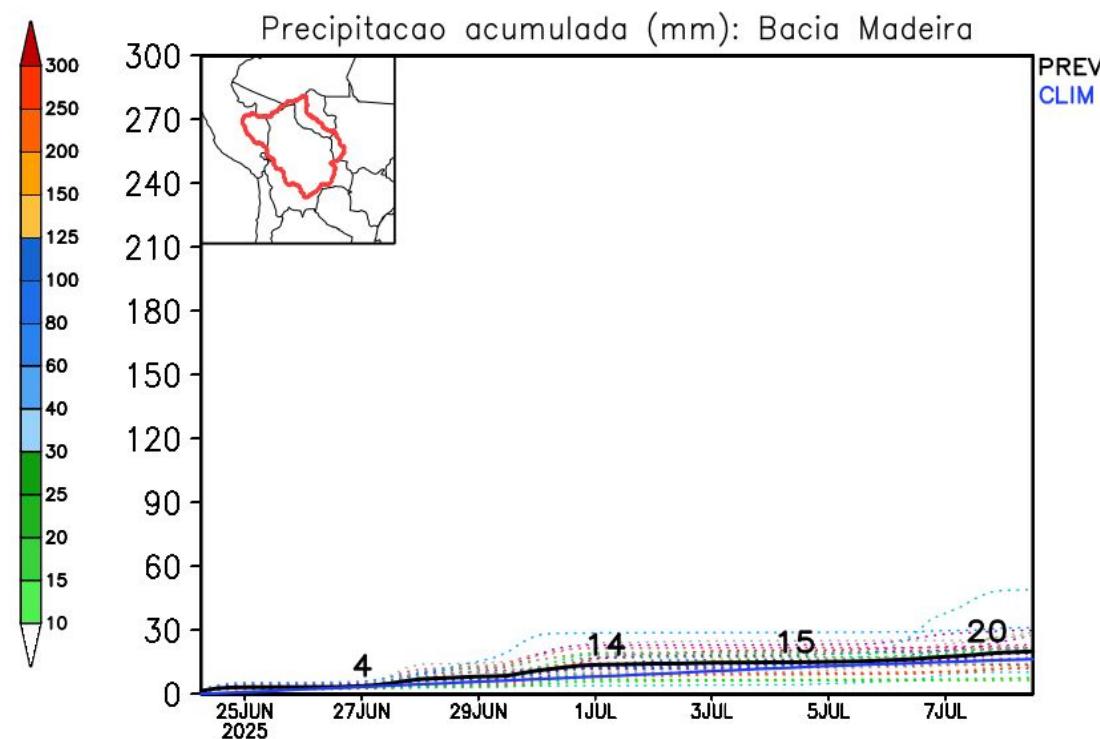
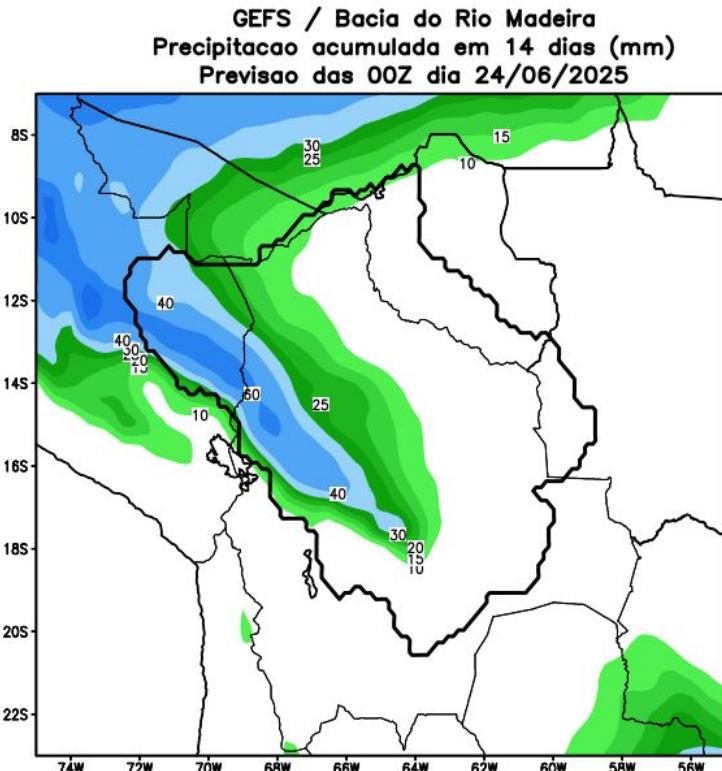
### Rio Negro

GEFS / Bacia do Rio Negro  
Precipitação acumulada em 14 dias (mm)  
Previsão das 00Z dia 24/06/2025



# Previsão de chuva próximas duas semanas

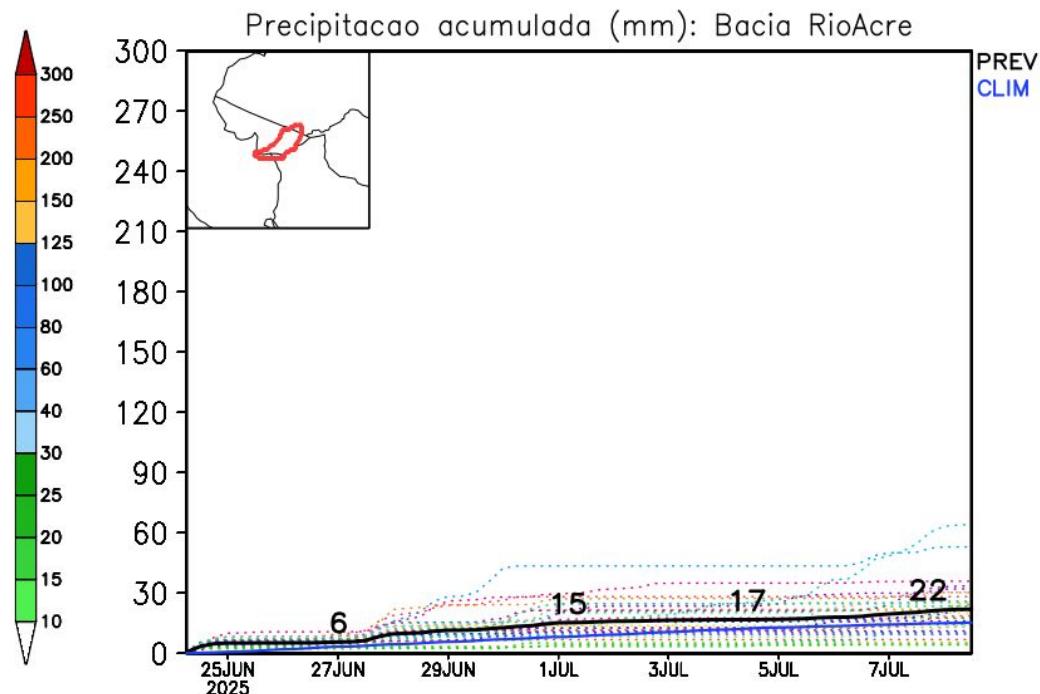
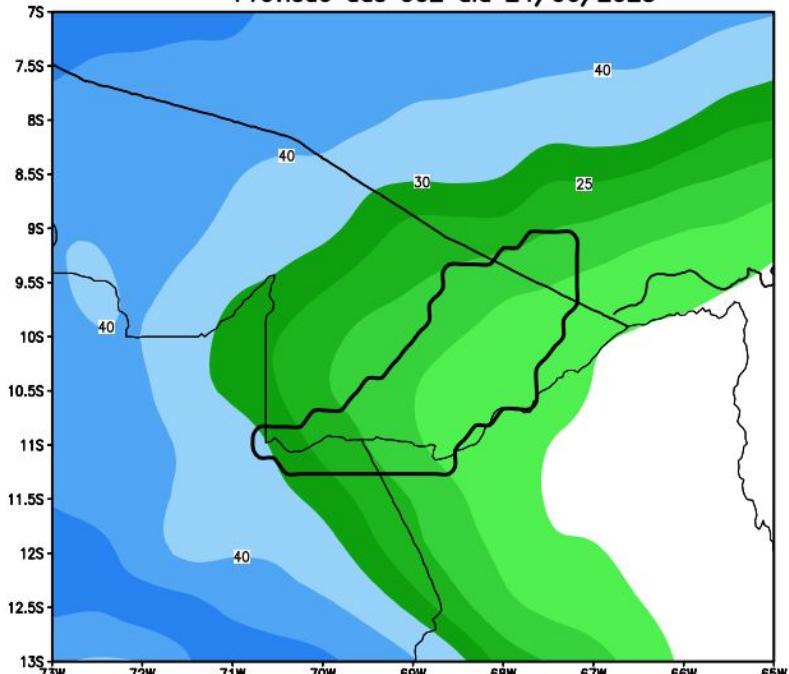
## Rio Madeira



## Previsão de chuva próximas duas semanas

### Rio Acre

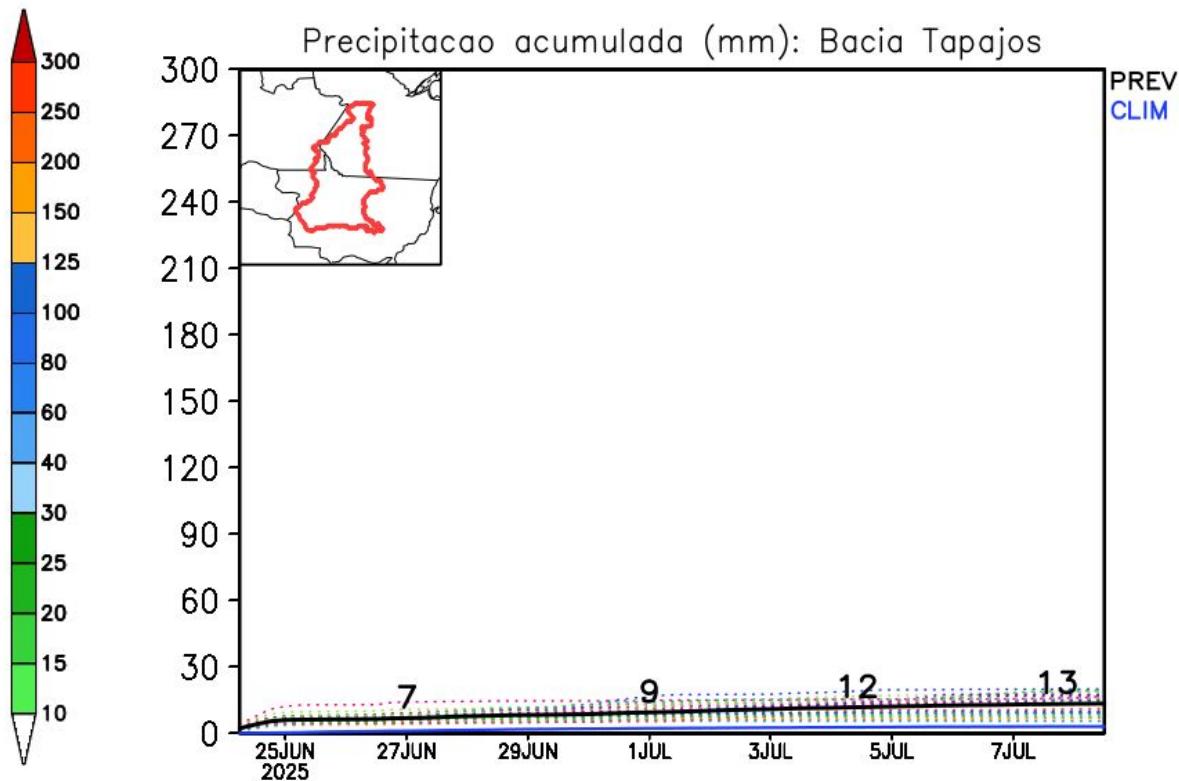
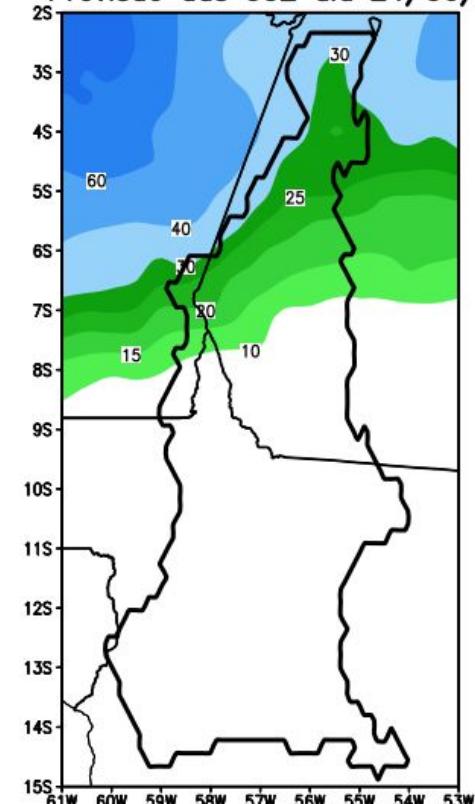
GEFS / Bacia do Rio Acre  
Precipitação acumulada em 14 dias (mm)  
Previsão das 00Z dia 24/06/2025



## Previsão de chuva próximas duas semanas

Rio Tapajós

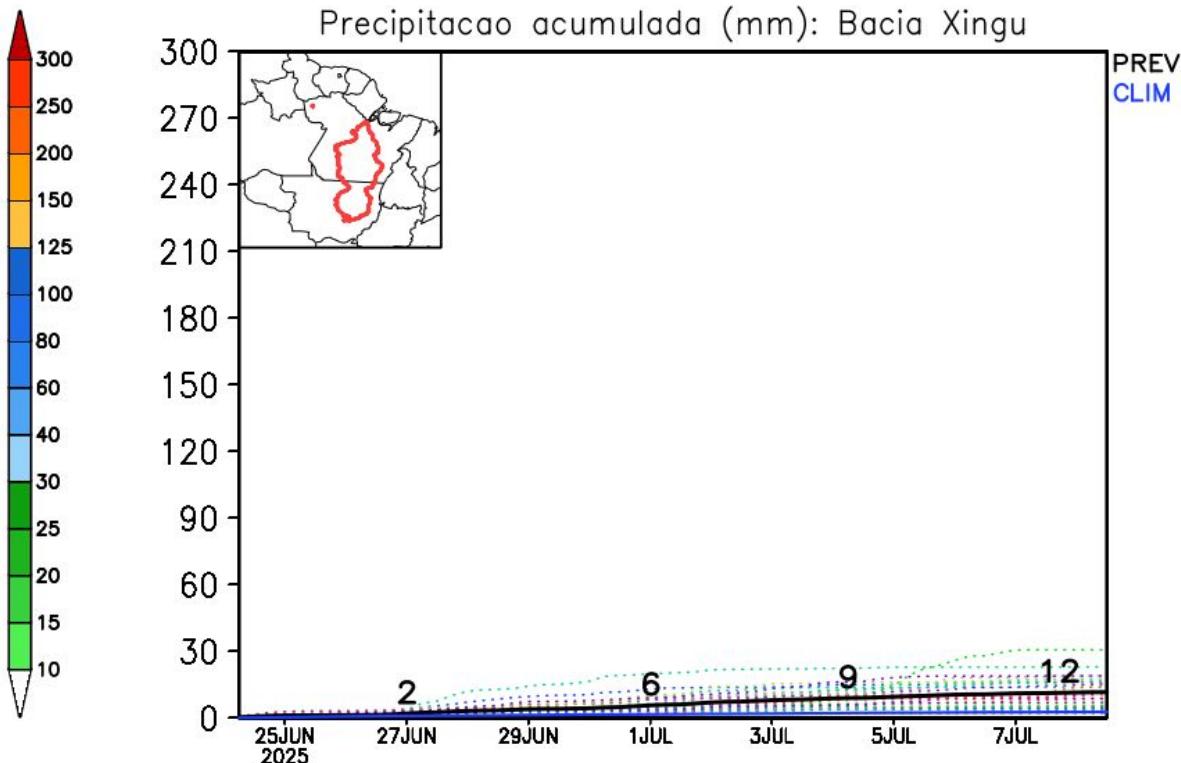
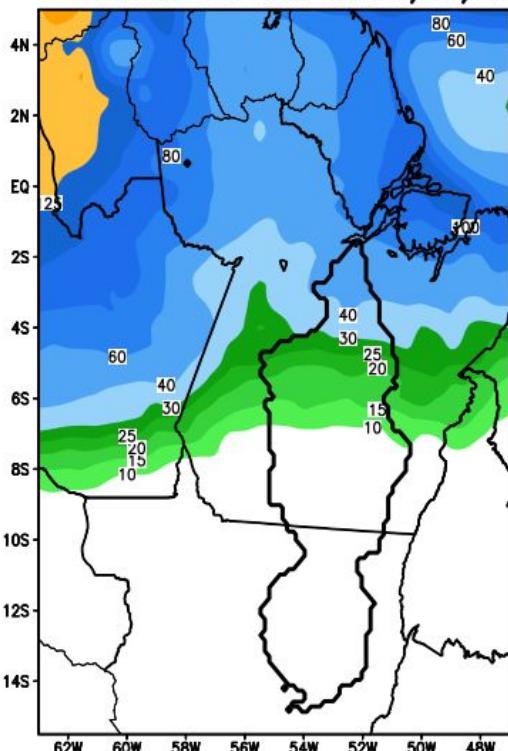
GEFS\_50km / Bacia do Rio Tapajós  
Precipitação acumulada em 14 dias (mm)  
Previsão das 00Z dia 24/06/2025



## Previsão de chuva próximas duas semanas

Rio Xingu

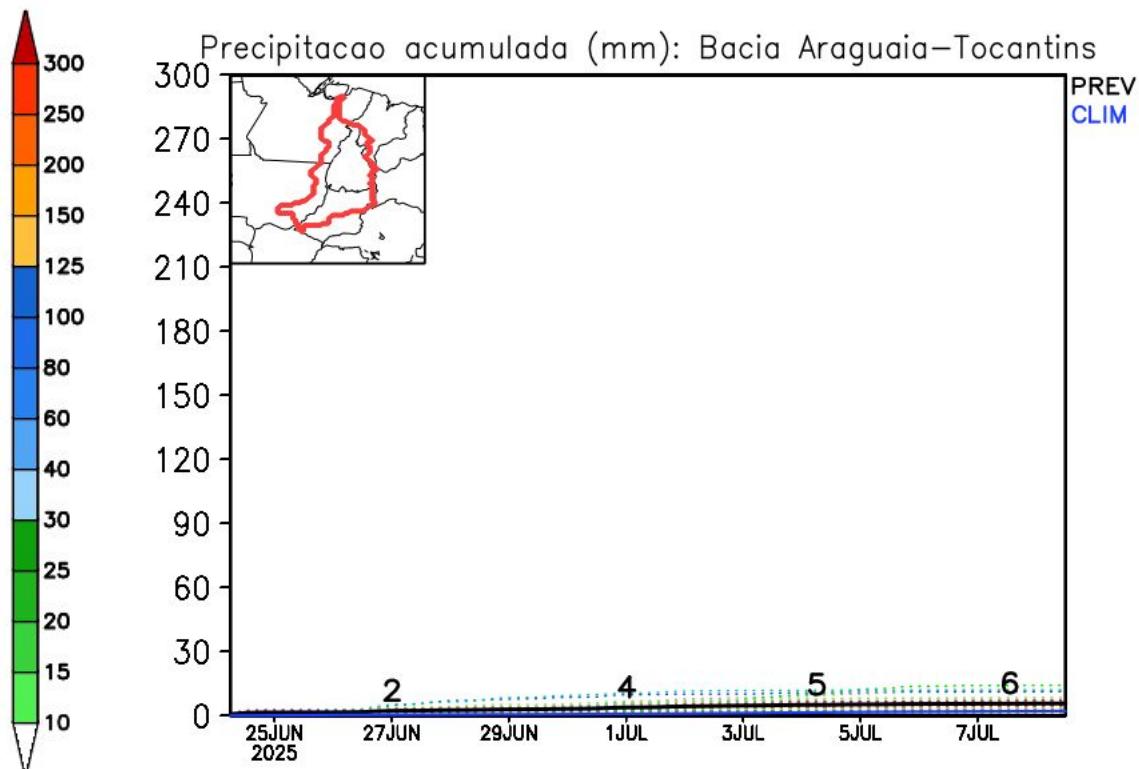
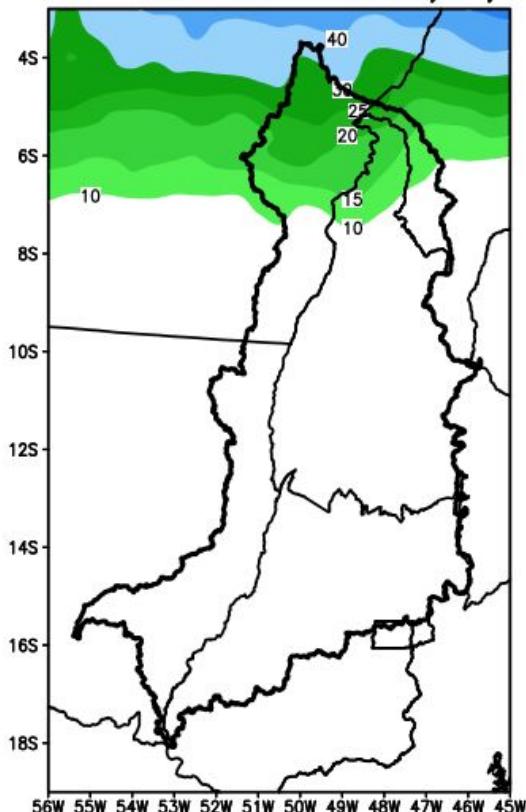
GEFS / Xingu  
Precipitacao acumulada em 14 dias (mm)  
Previsao das 00Z dia 24/06/2025



## Previsão de chuva próximas duas semanas

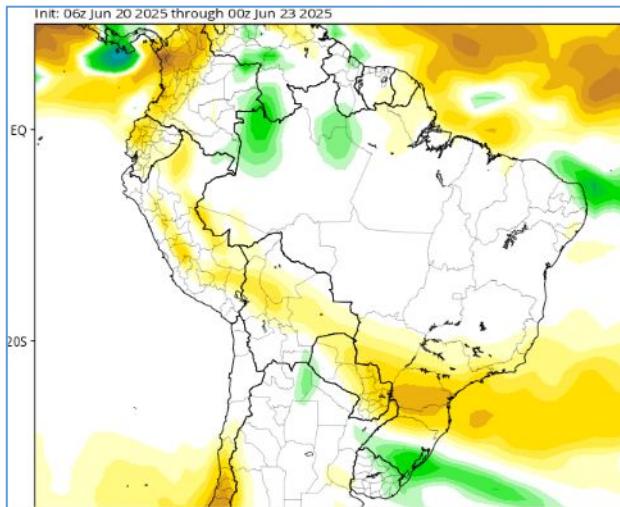
### Rio Araguaia-Tocantins

GEFS / Bacia Araguaia-Tocantins  
Precipitação acumulada em 14 dias (mm)  
Previsão das 00Z dia 24/06/2025



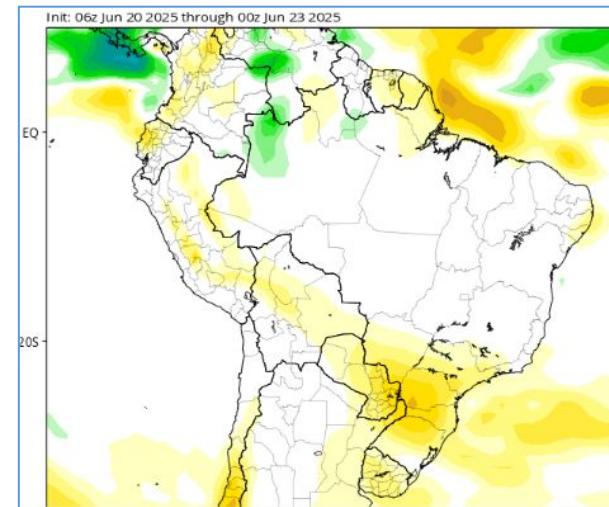
# Tendência 3a e 4a semanas

07-14 Jul

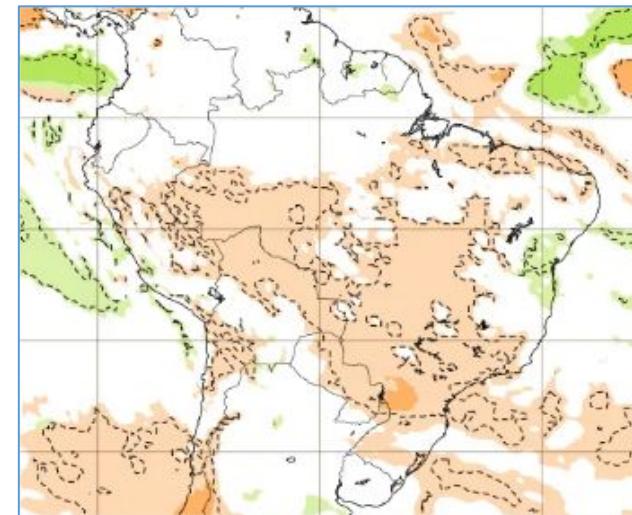
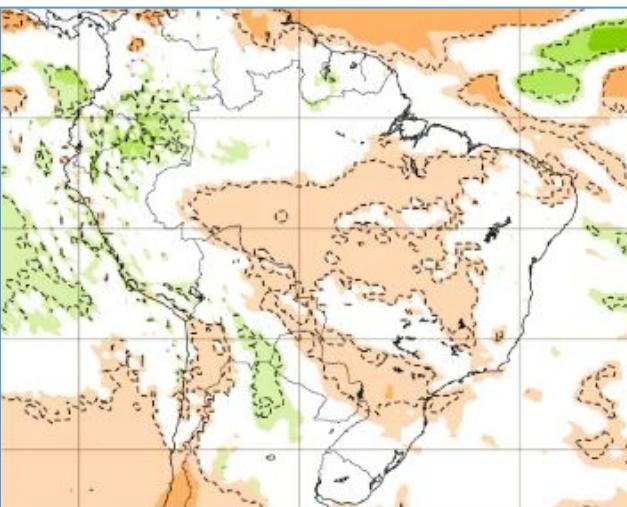


CFS/NOAA

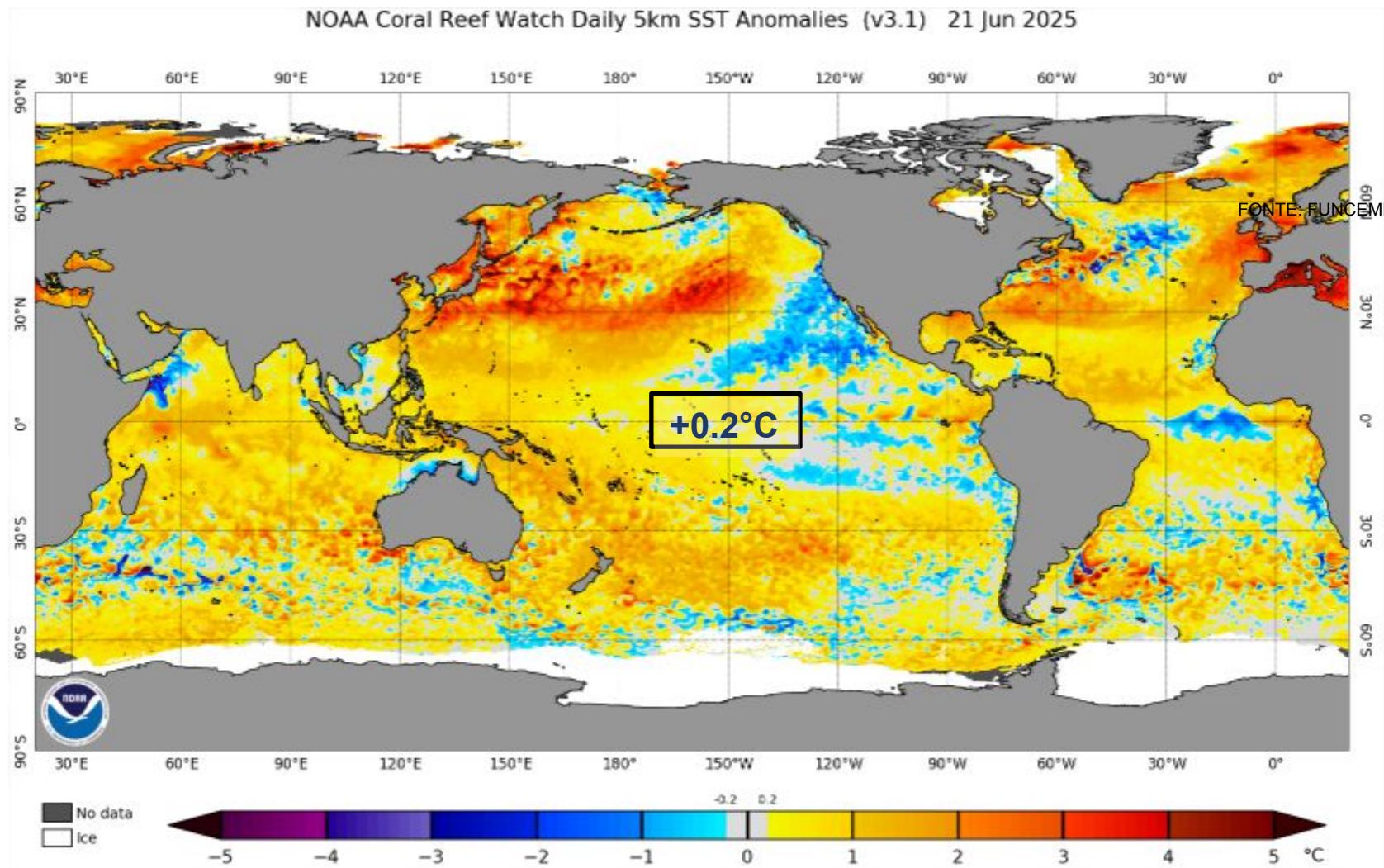
14-21 Jul



ECMWF

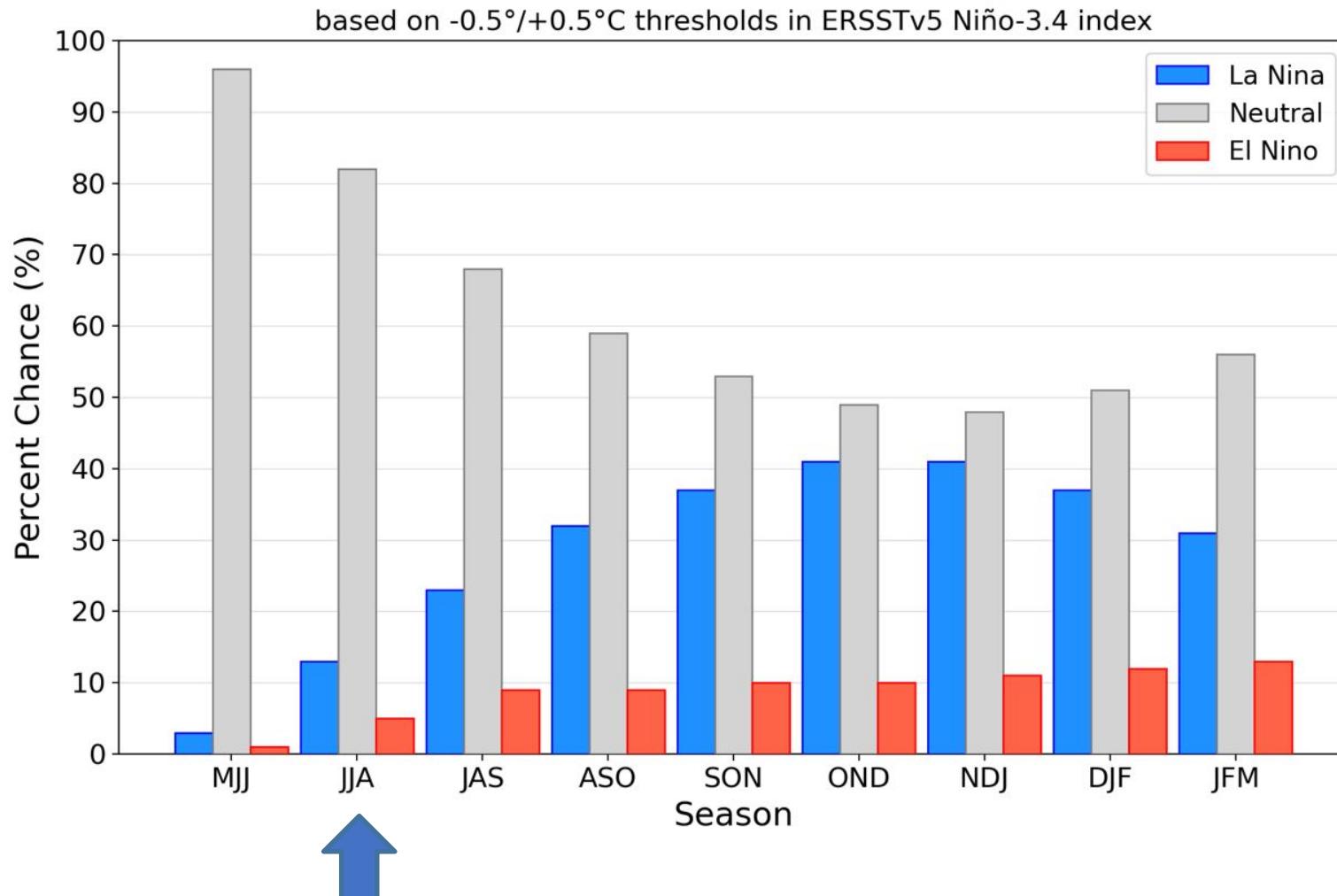


# Status Atual: Neutralidade



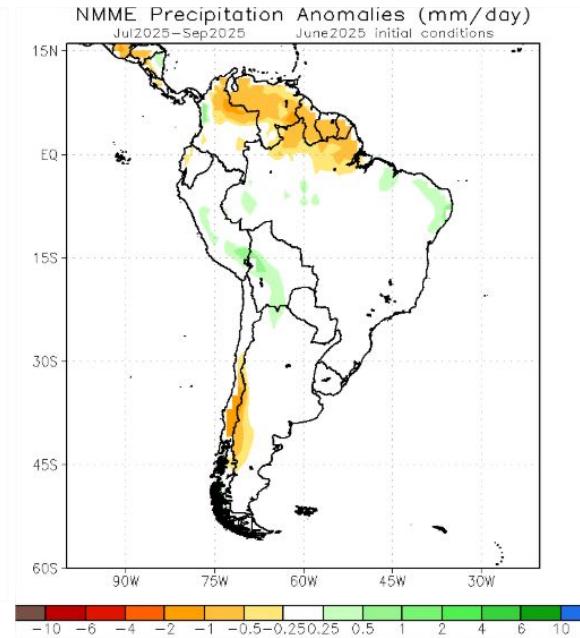
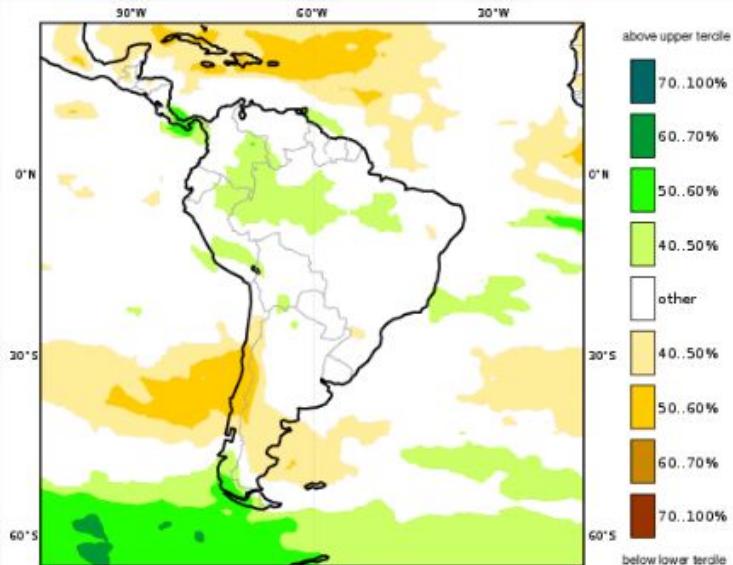
# Previsão do “ENSO”

Official NOAA CPC ENSO Probabilities (issued June 2025)

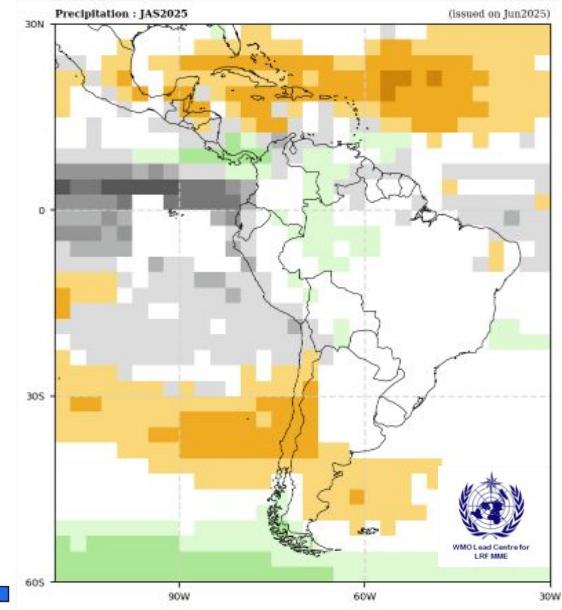


# Previsão Sazonal de Chuva Multi-Modelo

Julho-Agosto-Setembro



Modelos Norte Americanos

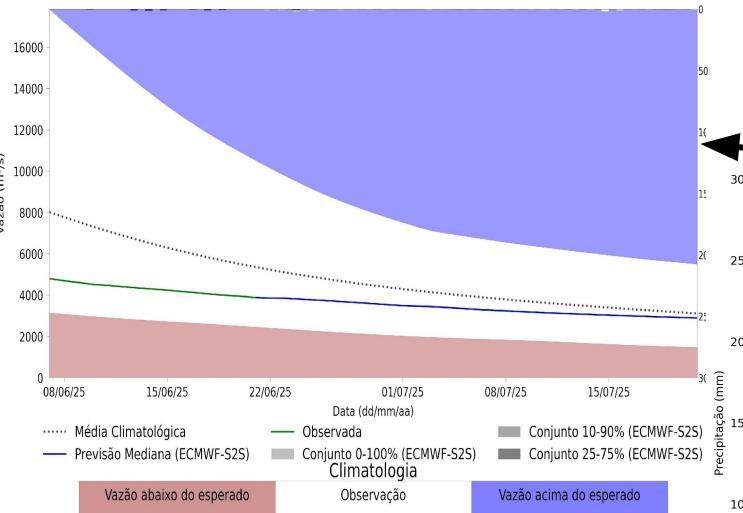


Modelos da WMO

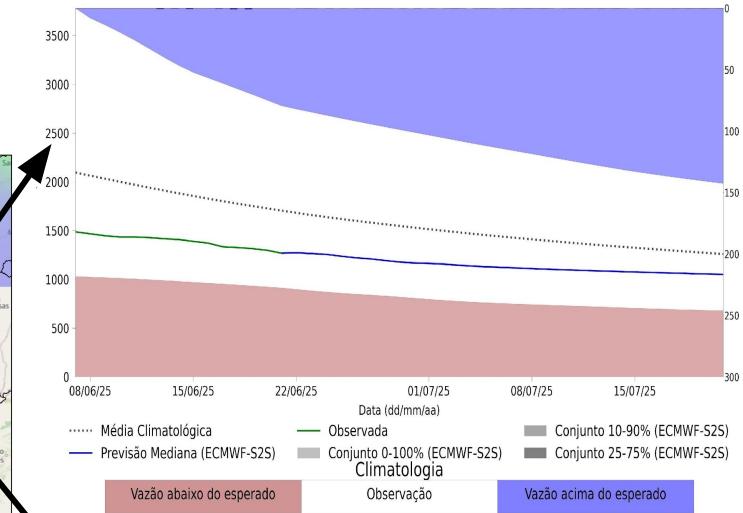
# Previsão de vazão natural na Bacia Rio Tocantins-Araguaia 30 dias (Modelo hidrológico MHD)

Previsão: 21/06/2025 a 21/07/2025

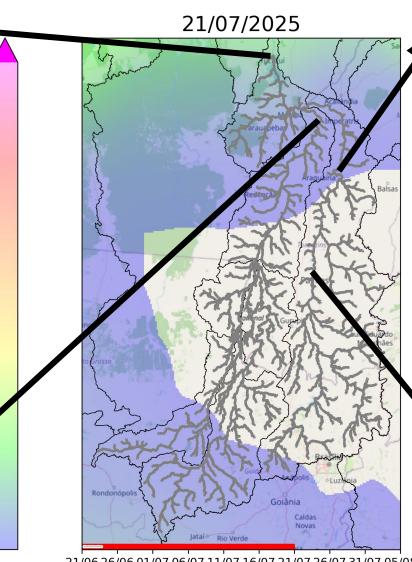
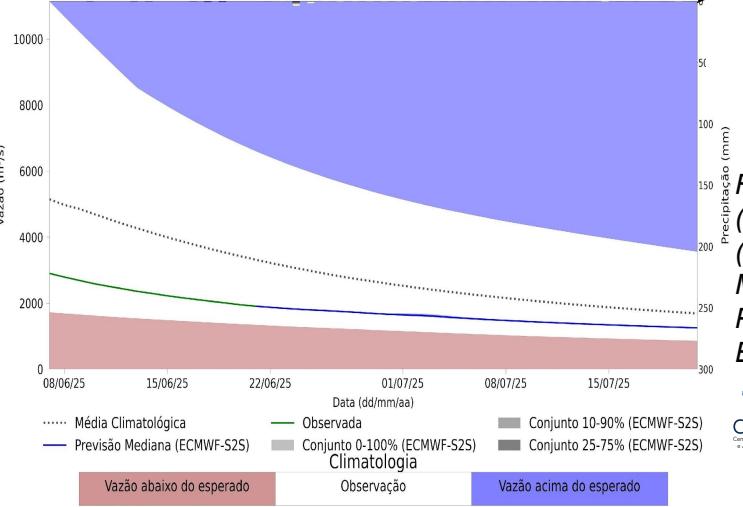
UHE Tucuruí



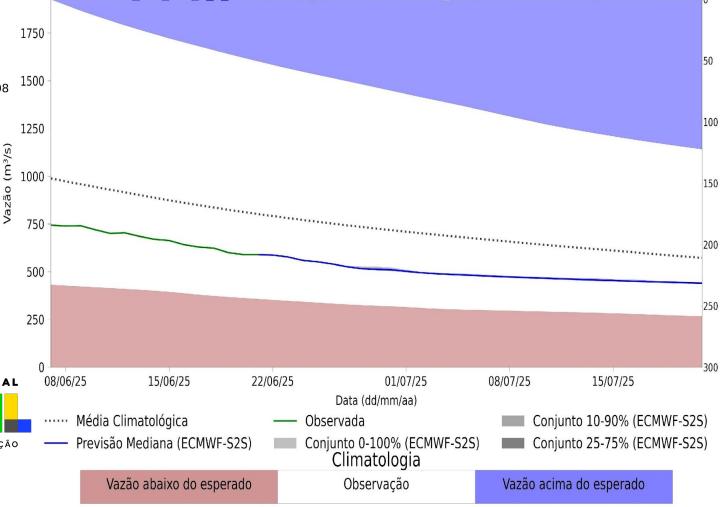
UHE Estreito



Araguatins - TO



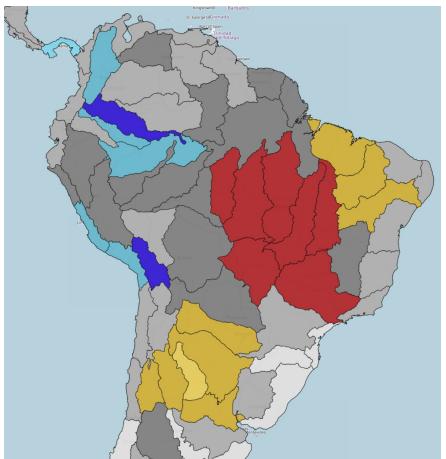
UHE Lajeado



## Previsão Sazonal

Anomaly category (rank-mean)		Uncertainty category (rank-std)		
		Low (0-10)	Medium (10-20)	High (20+)
Extreme Low (1-10)				
Low (10-25)				
Near Normal (25-75)	Bit low (25-40)			
	Normal (40-60)			
	Bit high (60-75)			
High (75-90)				
Extreme high (90-100)				

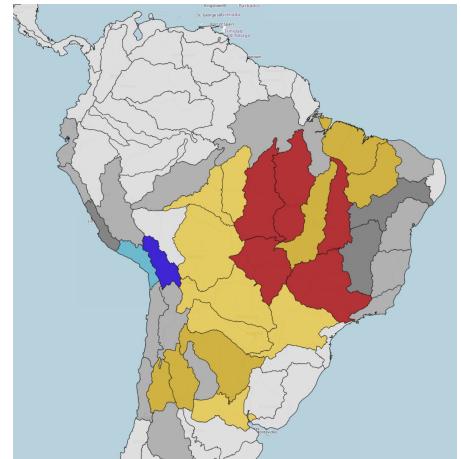
Junho



Julho



Agosto



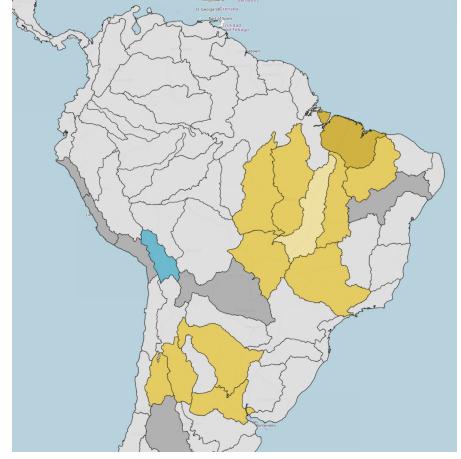
Setembro



Outubro

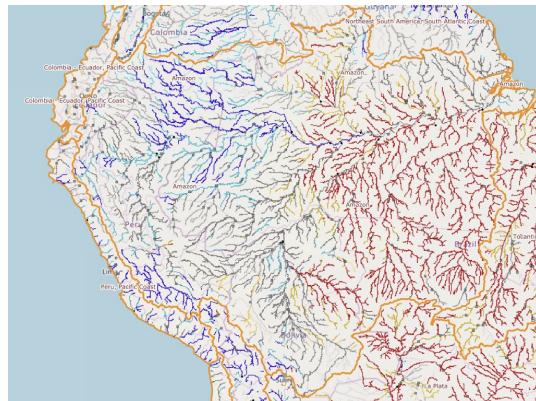


Novembro

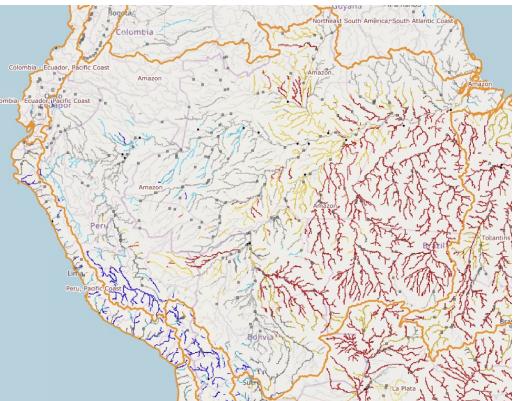


## Previsão Sazonal

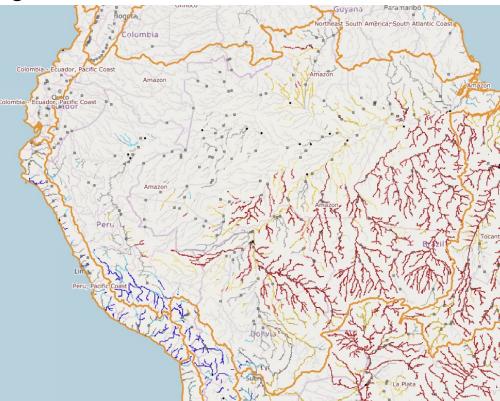
Junho



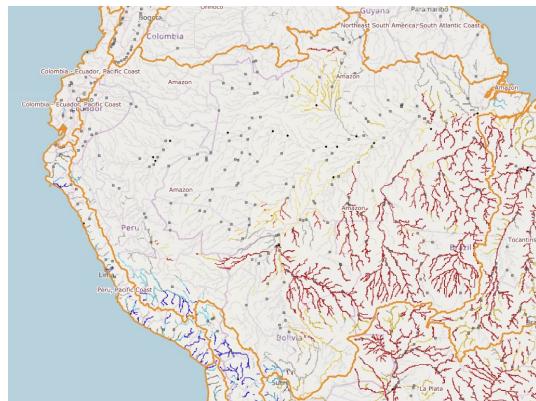
Julho



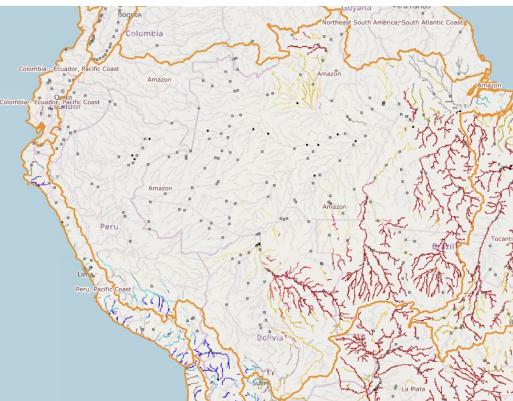
Agosto



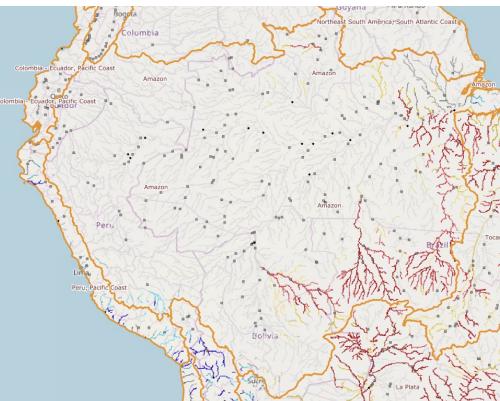
Setembro



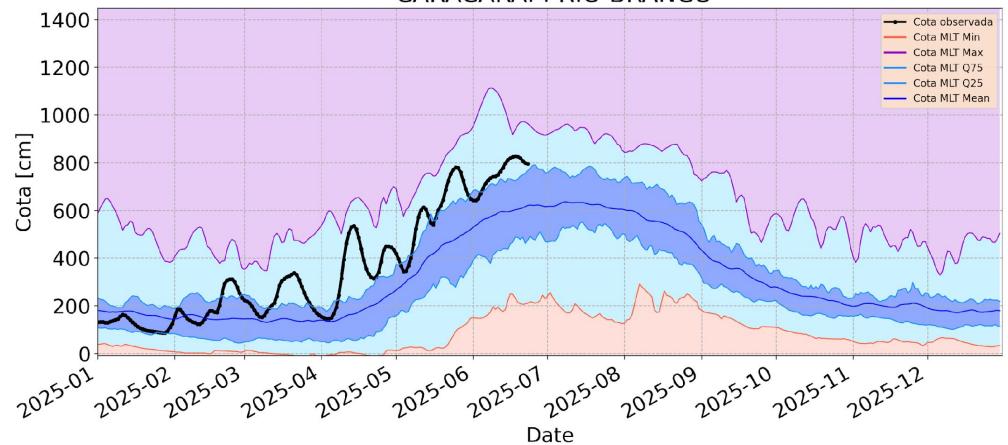
Outubro



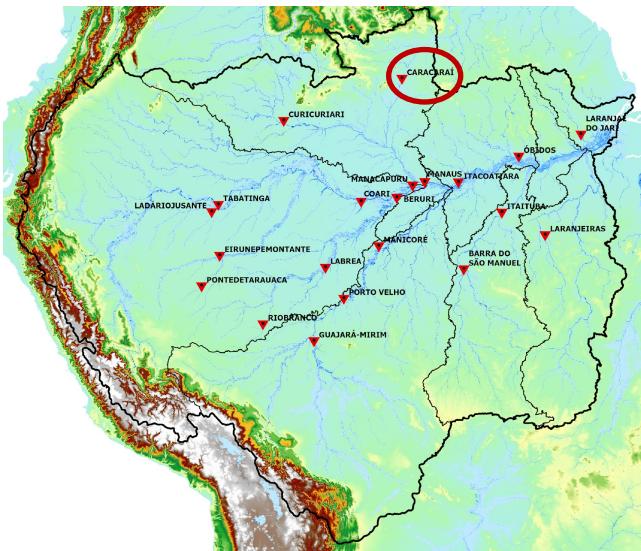
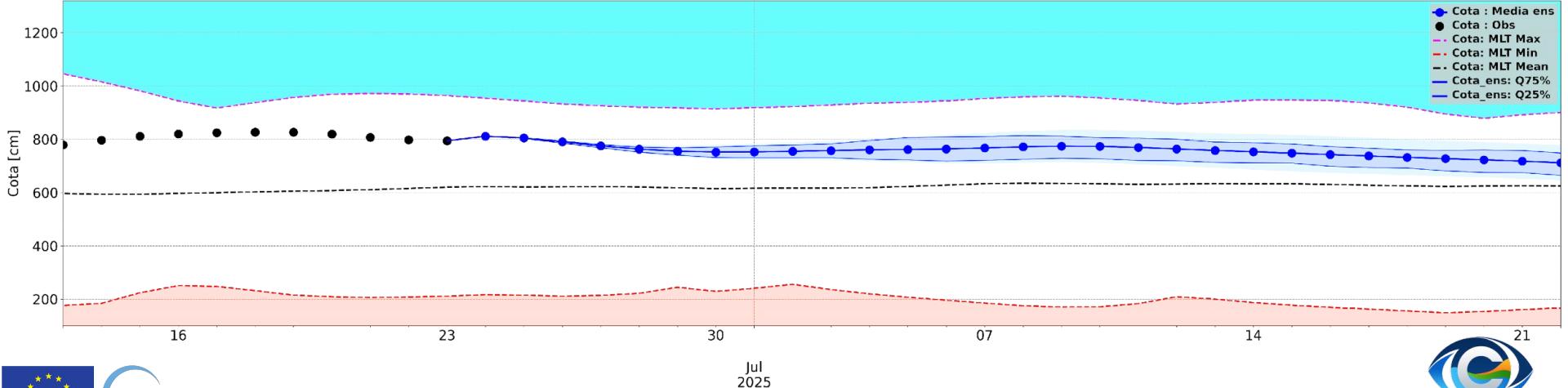
Novembro



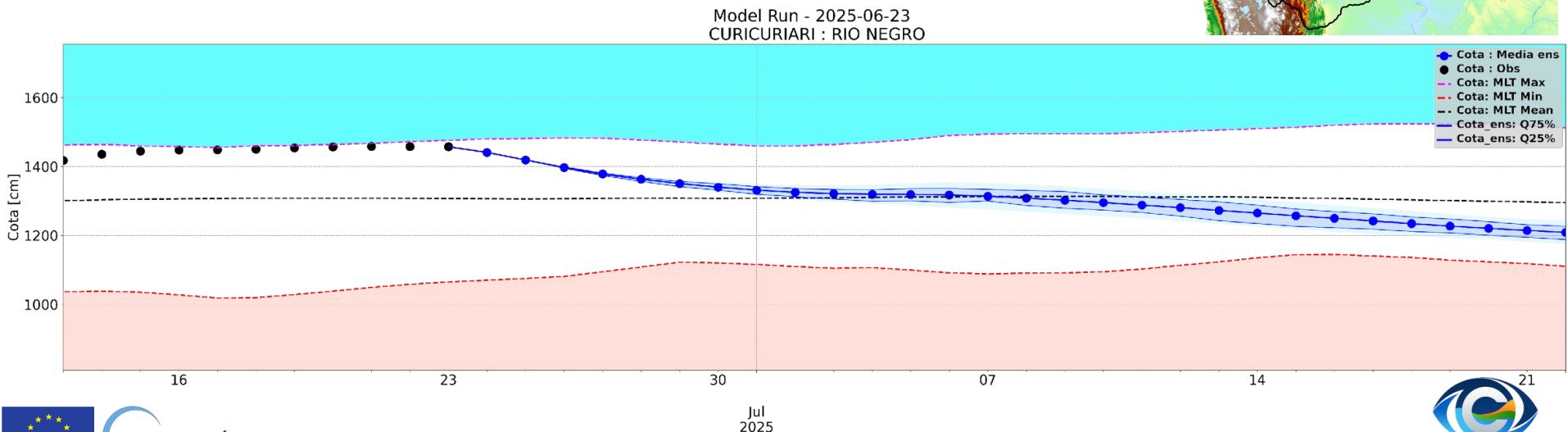
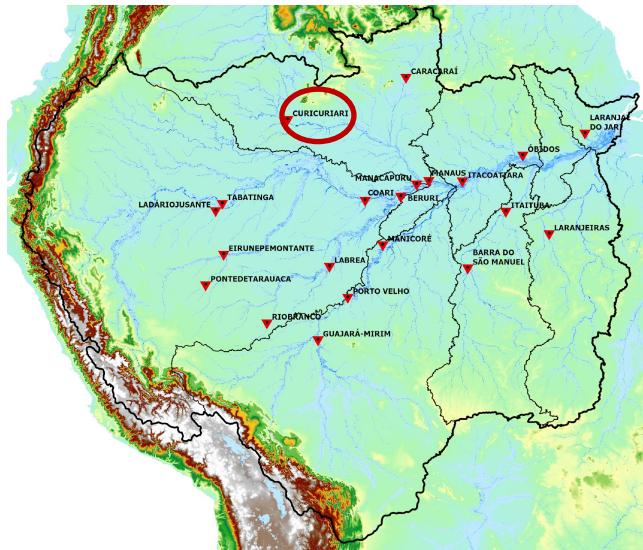
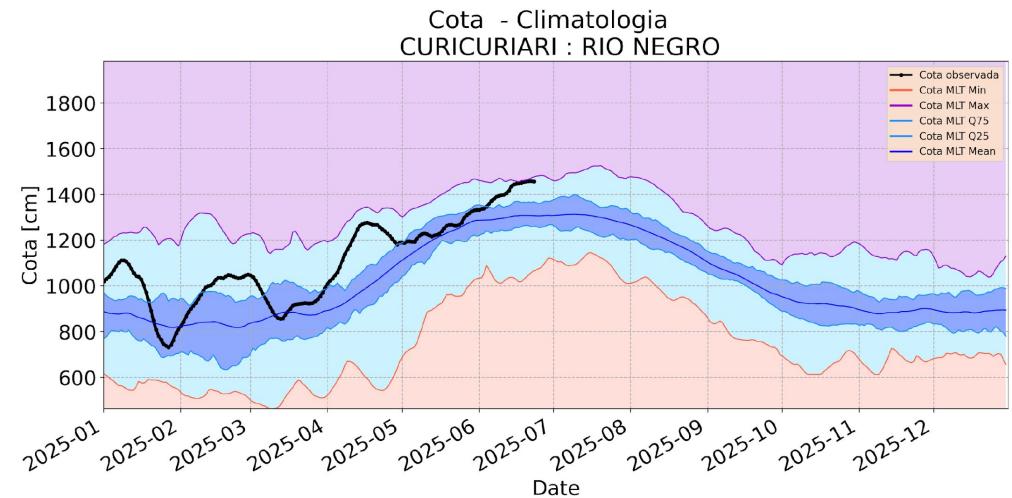
Cota - Climatologia  
CARACARAI : RIO BRANCO



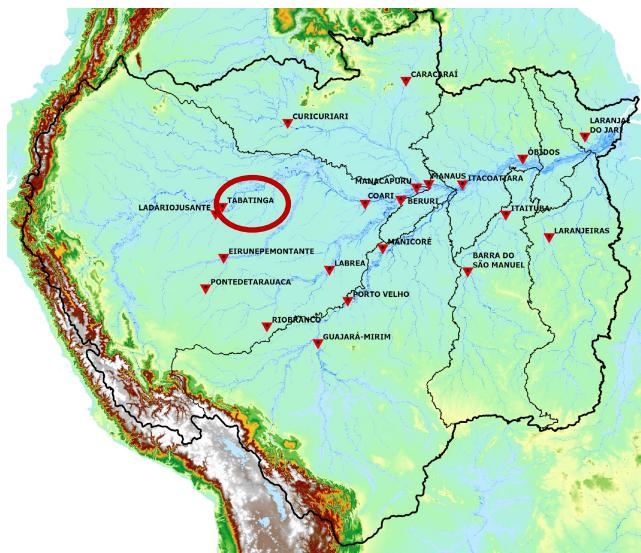
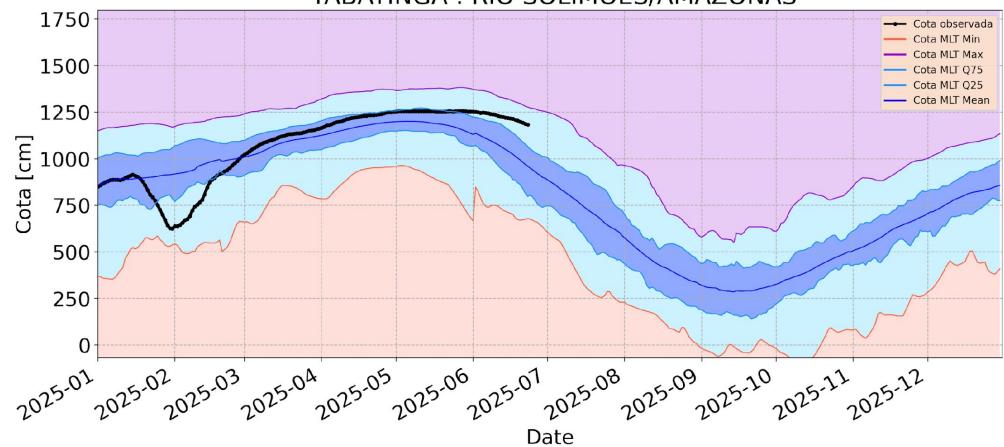
Model Run - 2025-06-23  
CARACARAI : RIO BRANCO



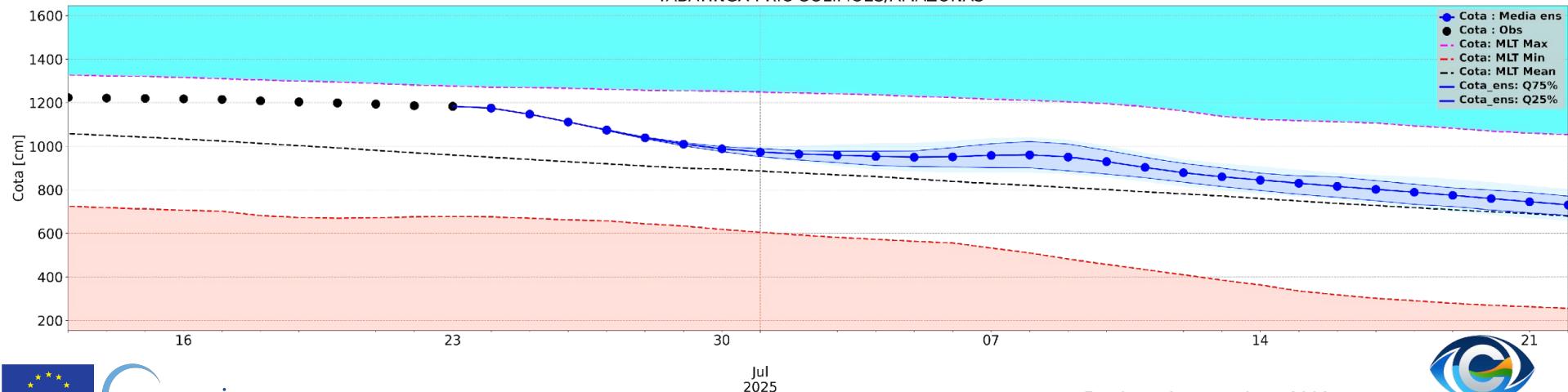
Dados observados: ANA



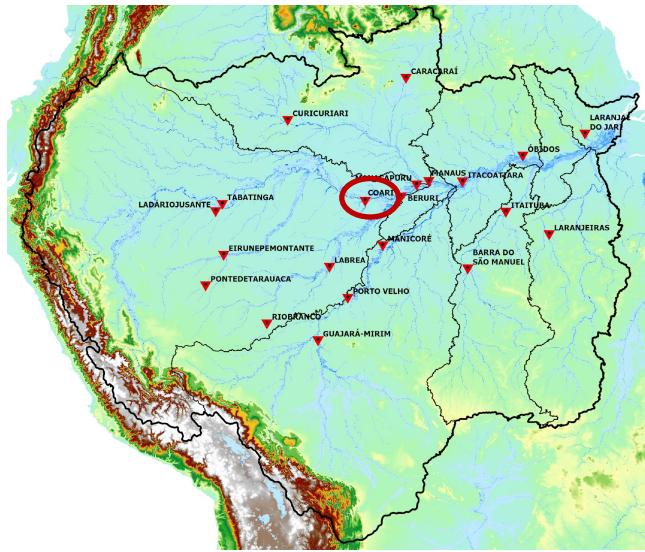
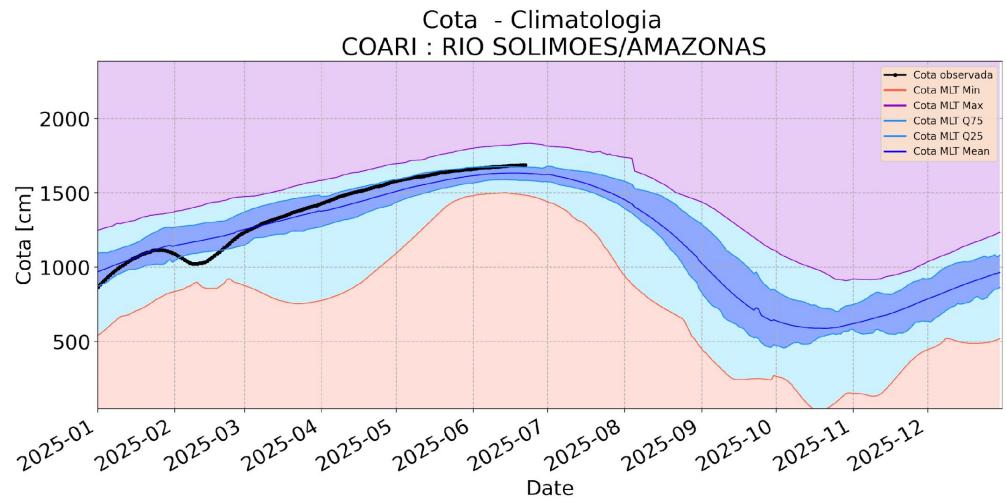
Cota - Climatologia  
TABATINGA : RIO SOLIMoes/AMAZONAS



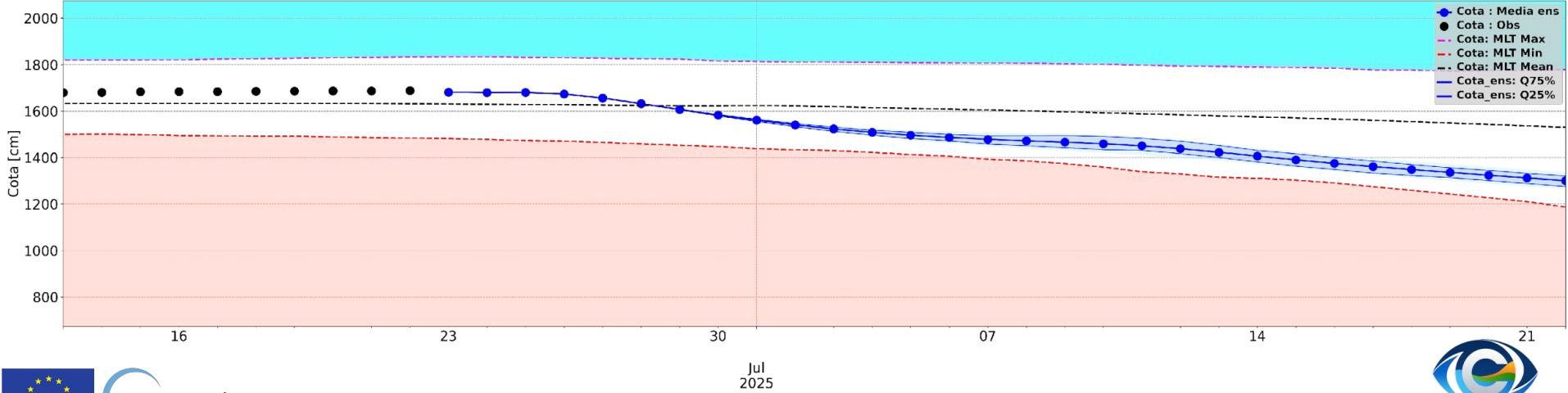
Model Run - 2025-06-23  
TABATINGA : RIO SOLIMoes/AMAZONAS



Dados observados: ANA

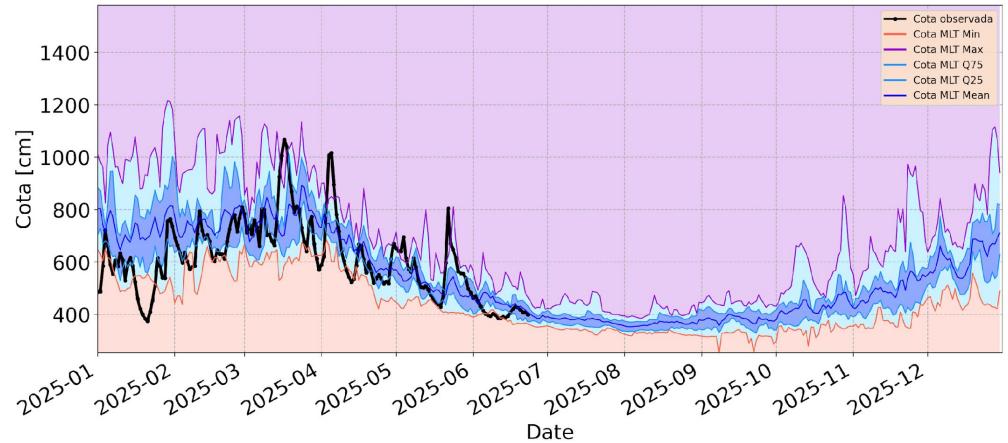


Model Run - 2025-06-23  
COARI : RIO SOLIMOES/AMAZONAS

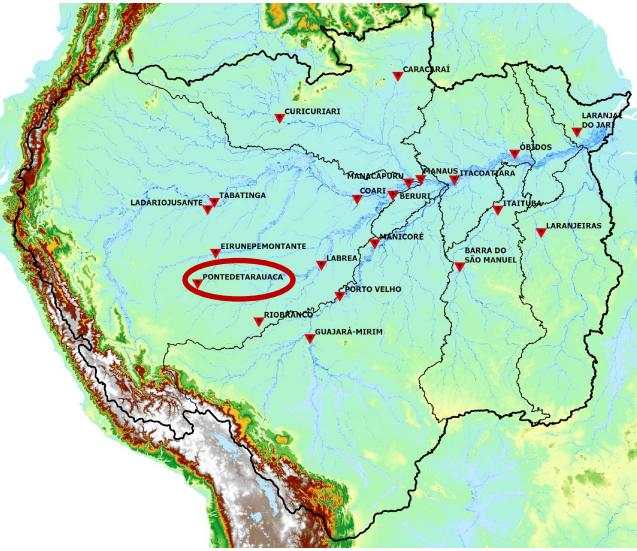
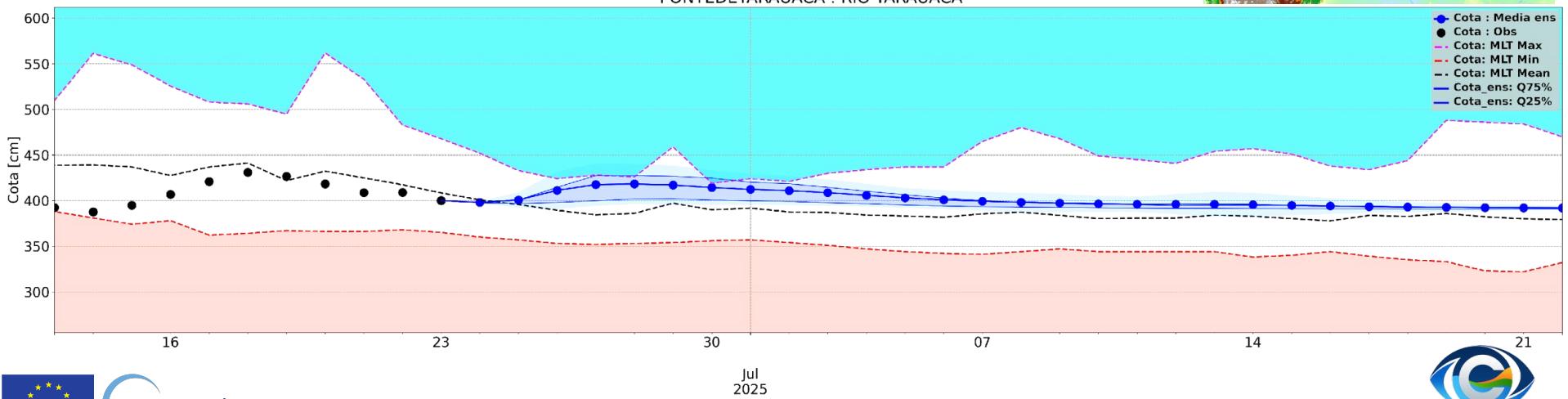


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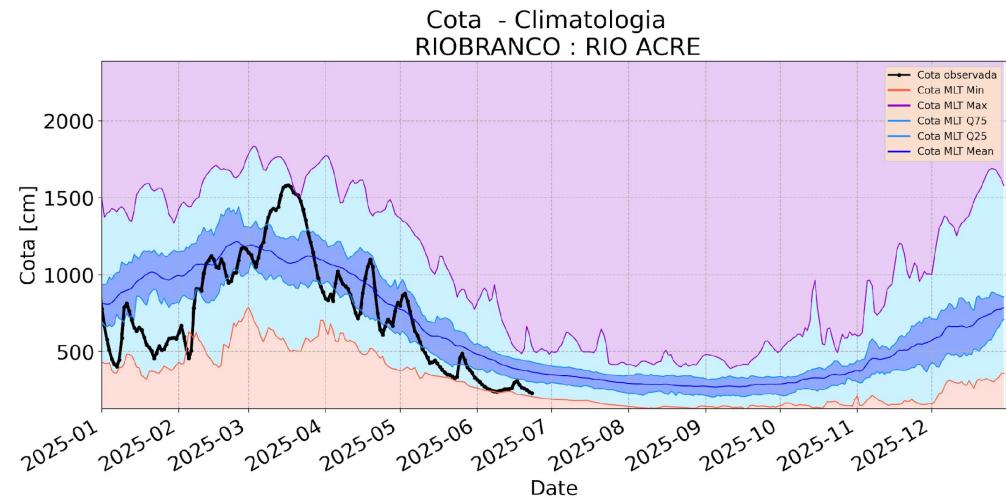
Cota - Climatologia  
PONTEDETARAUACA : RIO TARAUACA



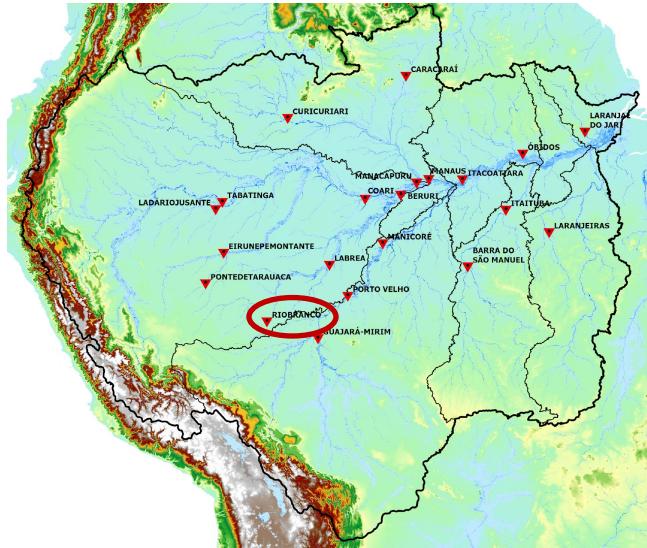
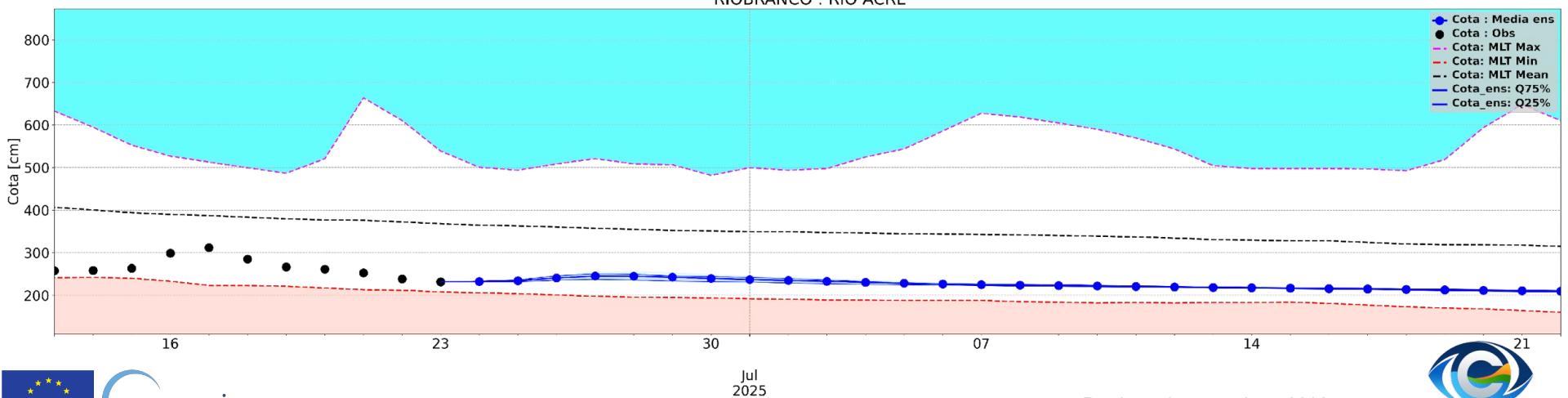
Model Run - 2025-06-23  
PONTEDETARAUACA : RIO TARAUACA



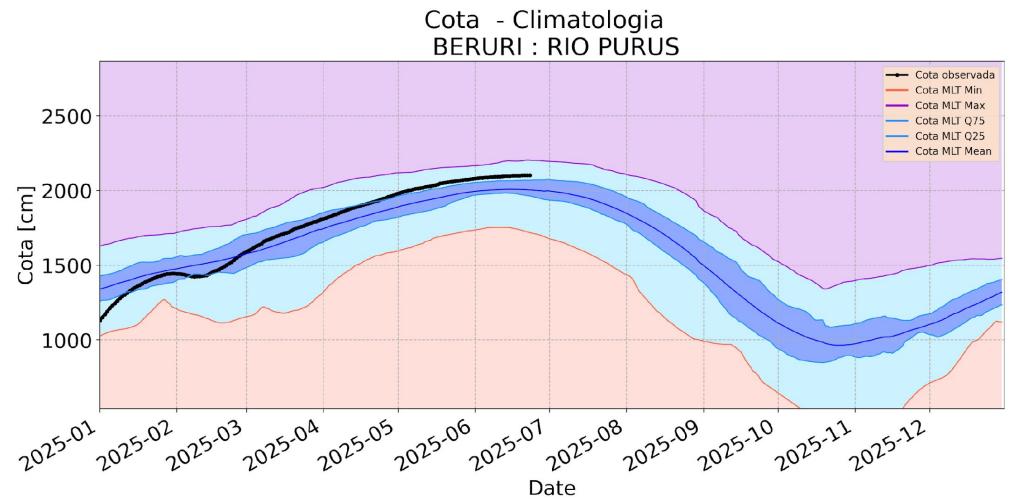
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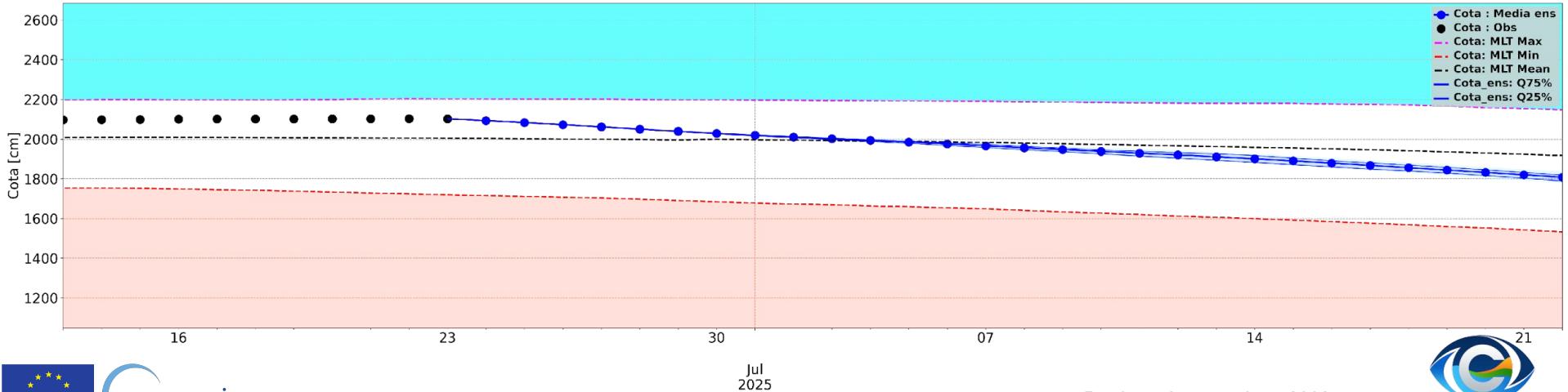
Model Run - 2025-06-23  
RIOBRANCO : RIO ACRE

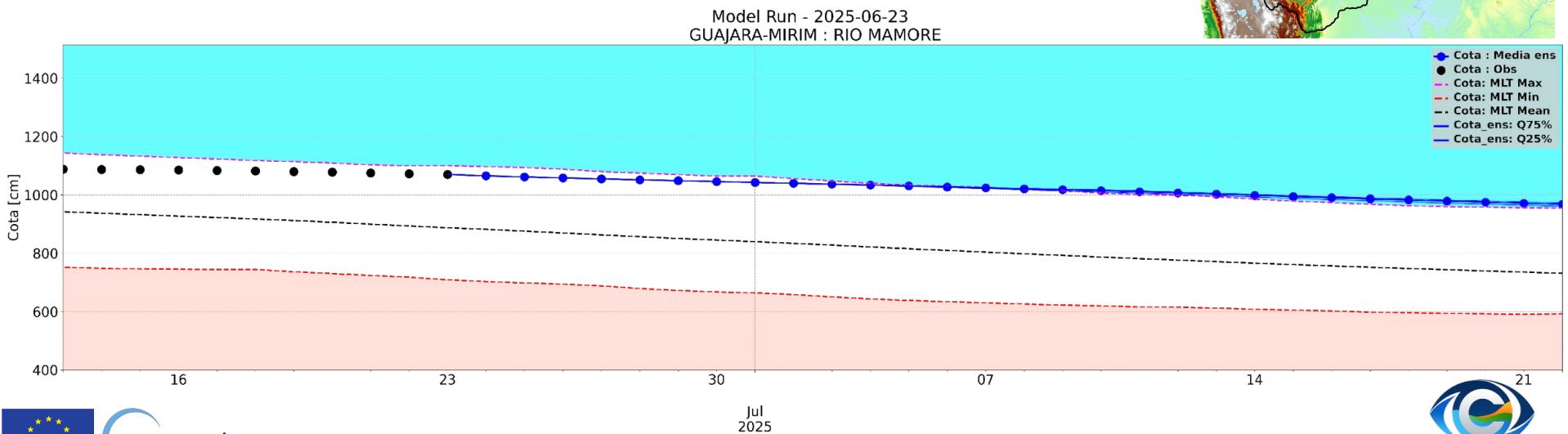
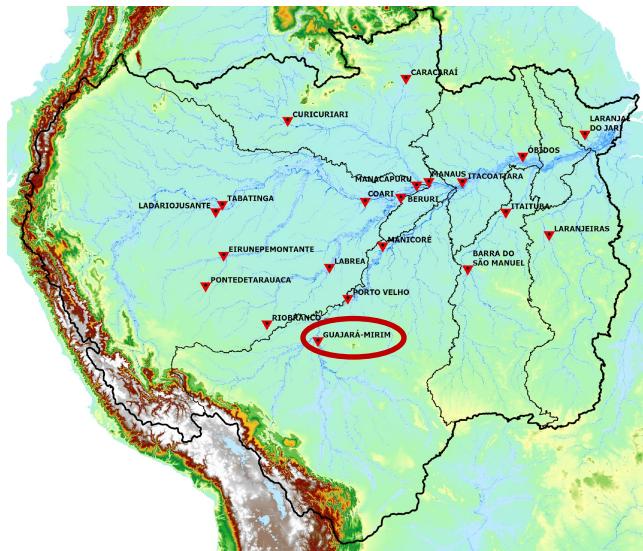
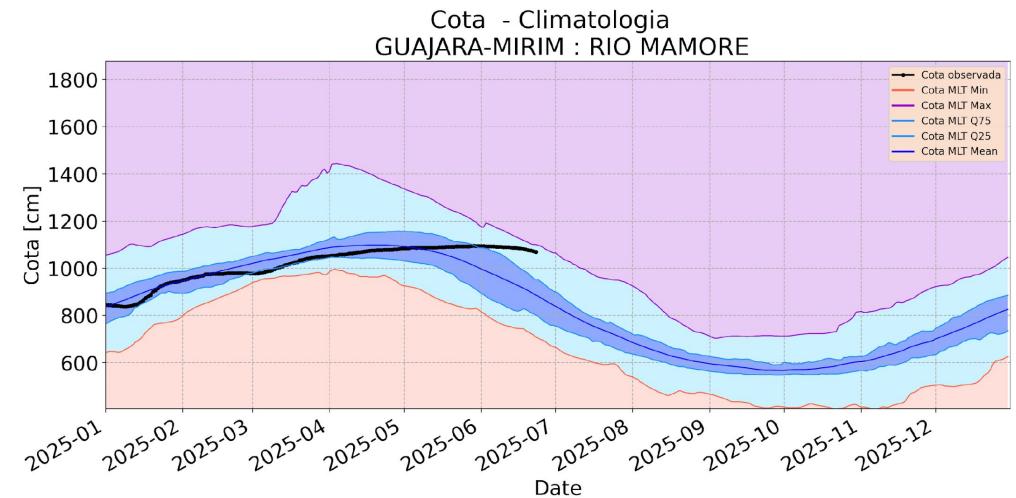


Dados observados: ANA

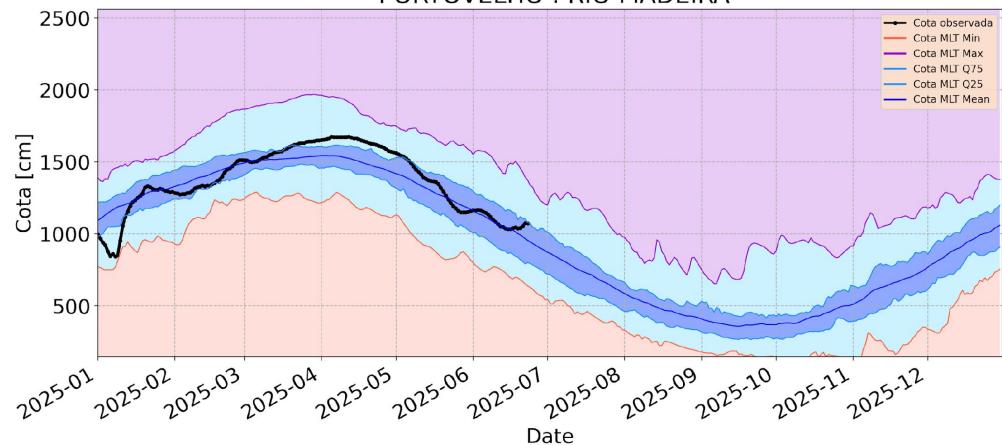


Model Run - 2025-06-23  
BERURI : RIO PURUS

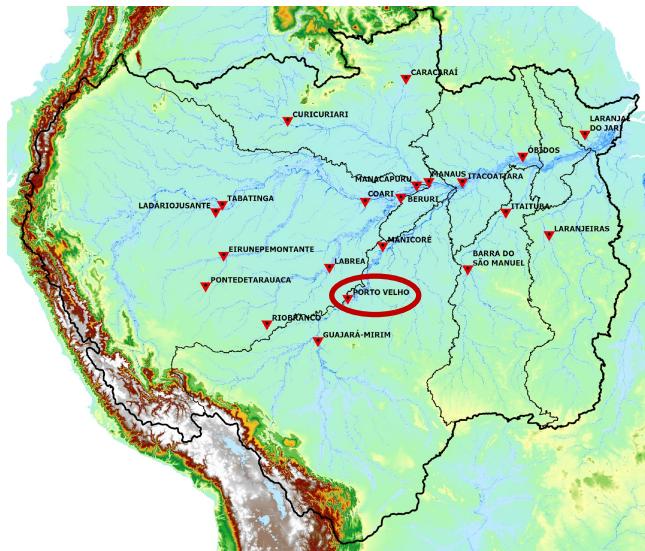
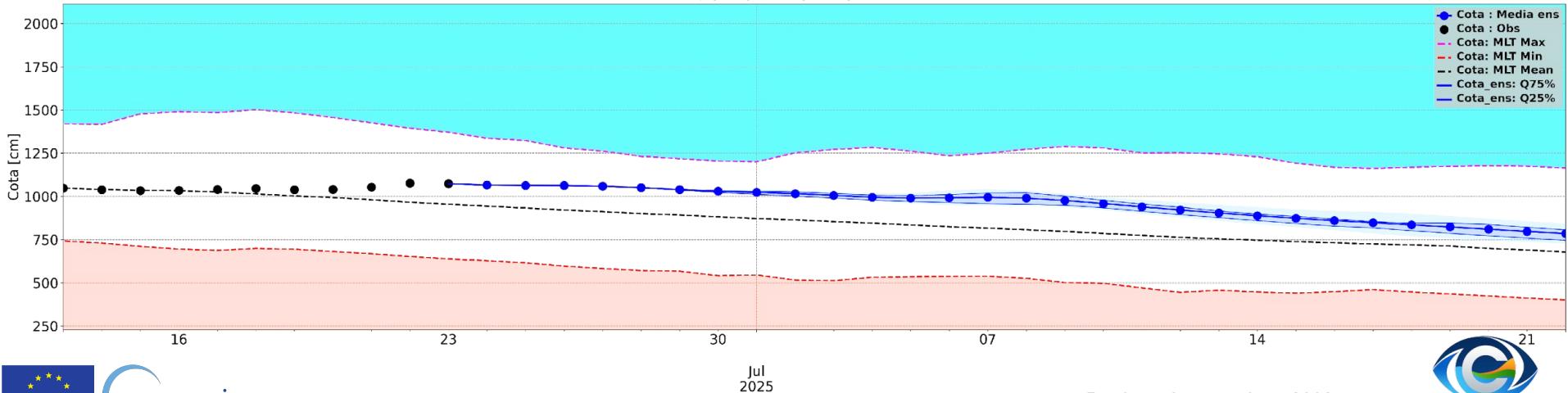




Cota - Climatologia  
PORTOVELHO : RIO MADEIRA

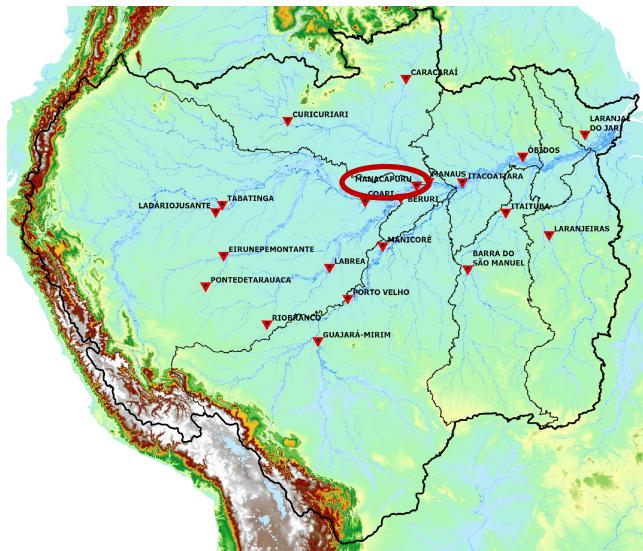
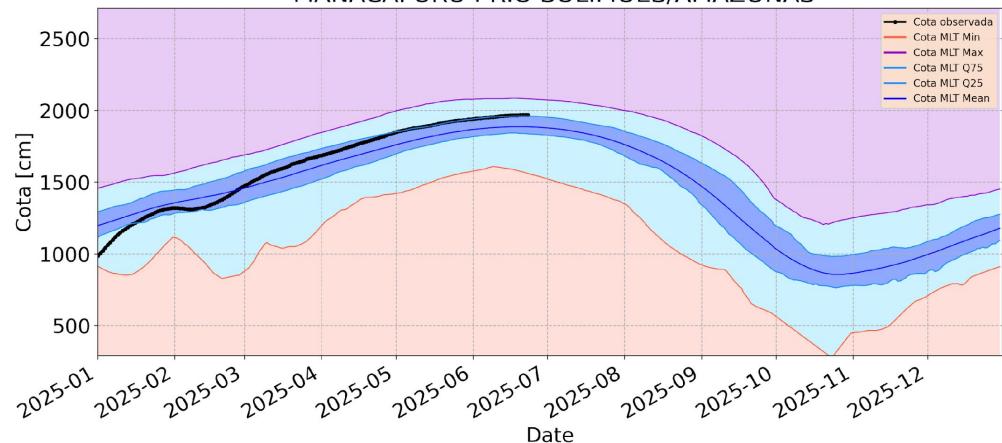


Model Run - 2025-06-23  
PORTOVELHO : RIO MADEIRA

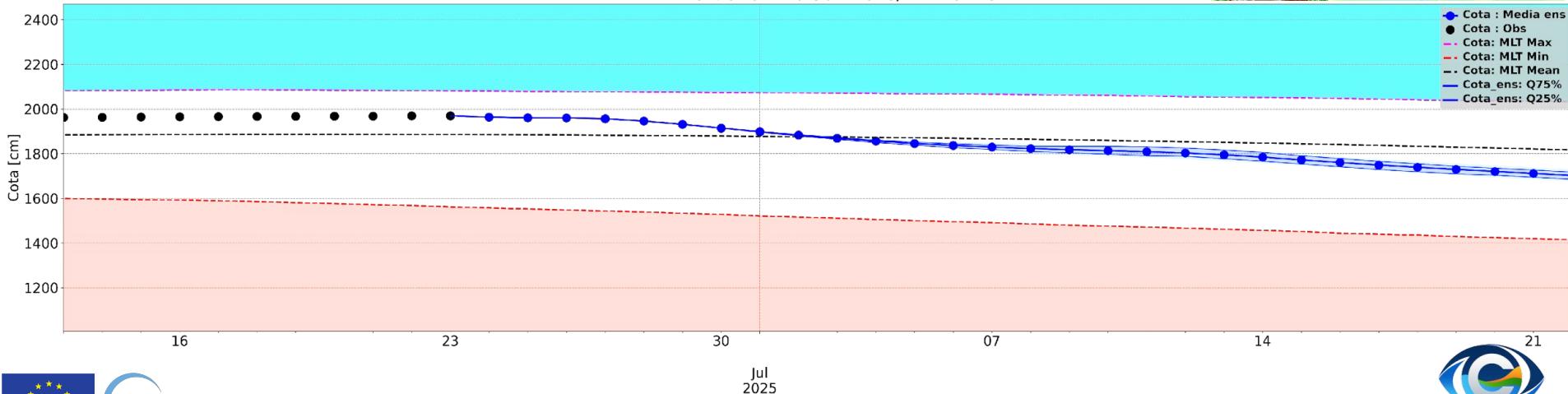


Dados observados: ANA

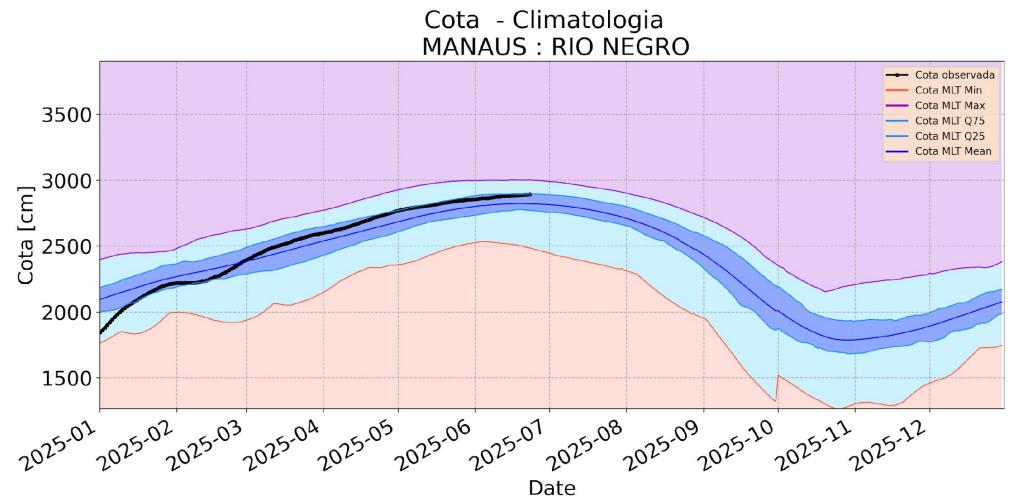
Cota - Climatologia  
MANACAPURU : RIO SOLIMoes/AMAZONAS



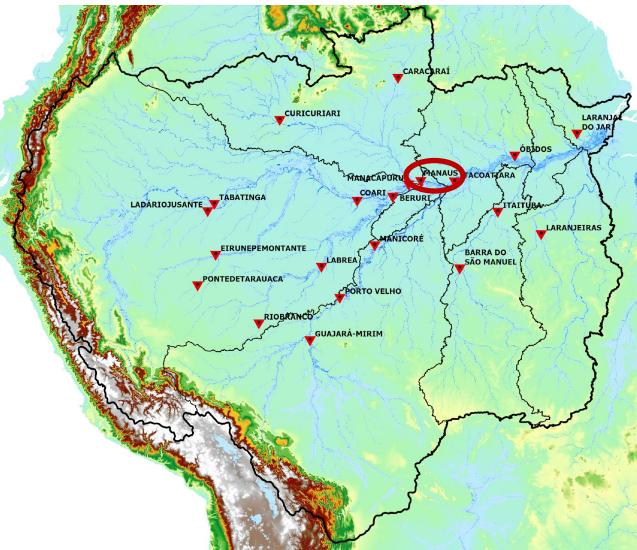
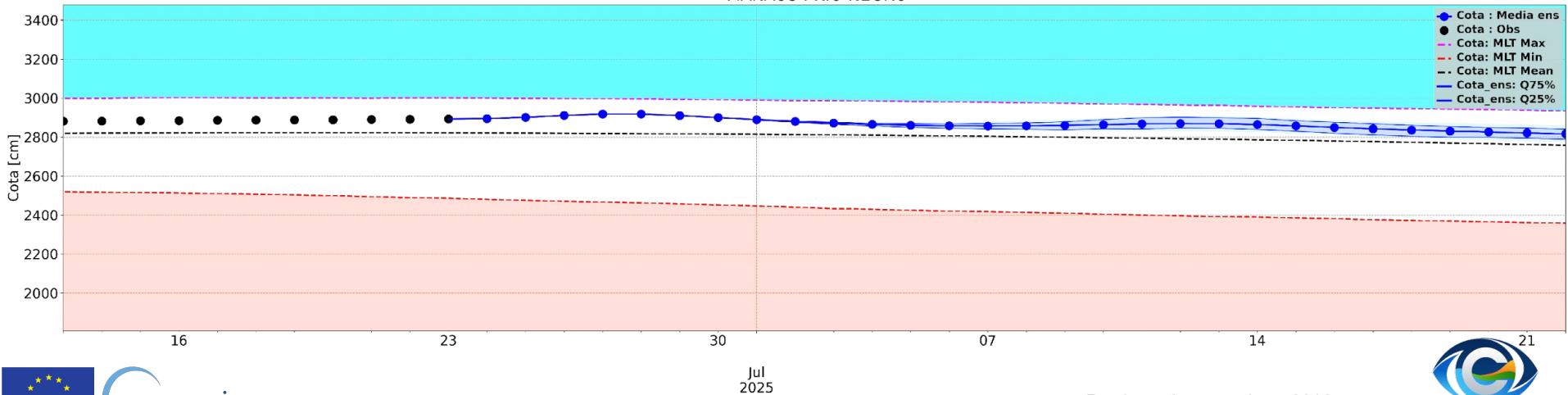
Model Run - 2025-06-23  
MANACAPURU : RIO SOLIMoes/AMAZONAS



Dados observados: ANA

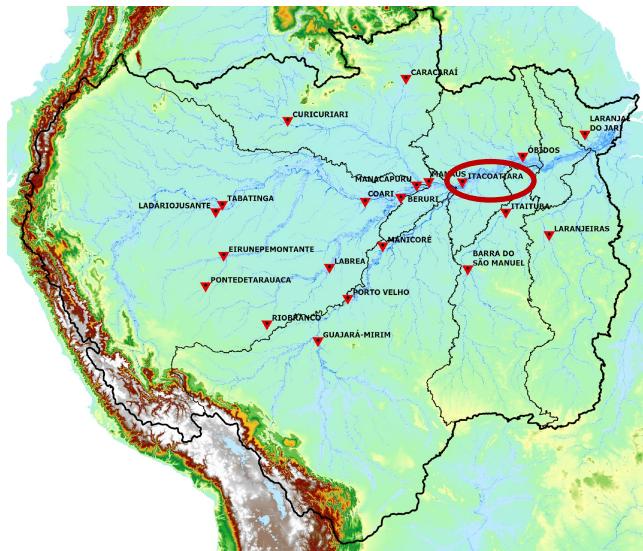
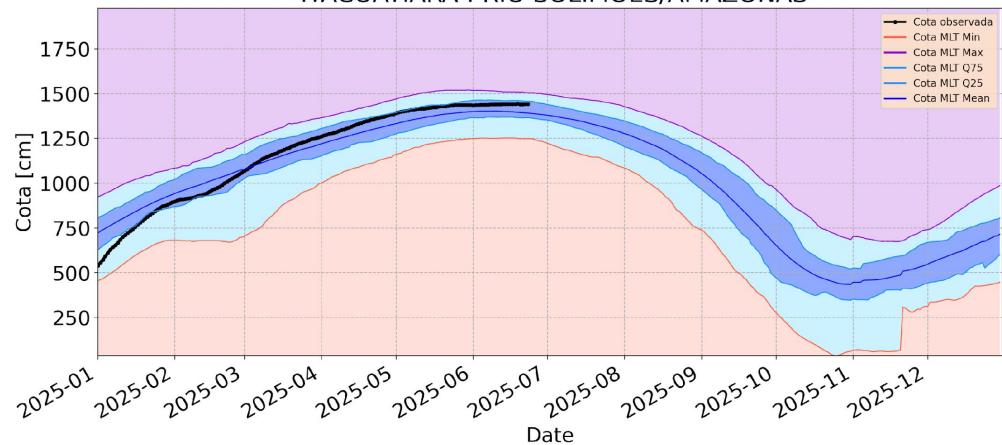


Model Run - 2025-06-23  
MANAUS : RIO NEGRO

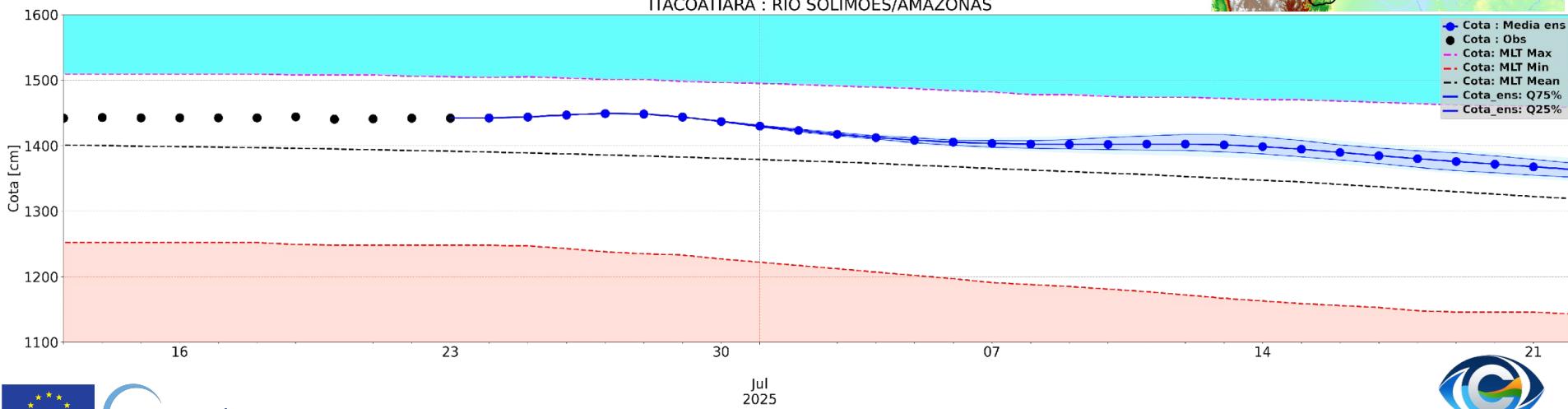


Dados observados: ANA

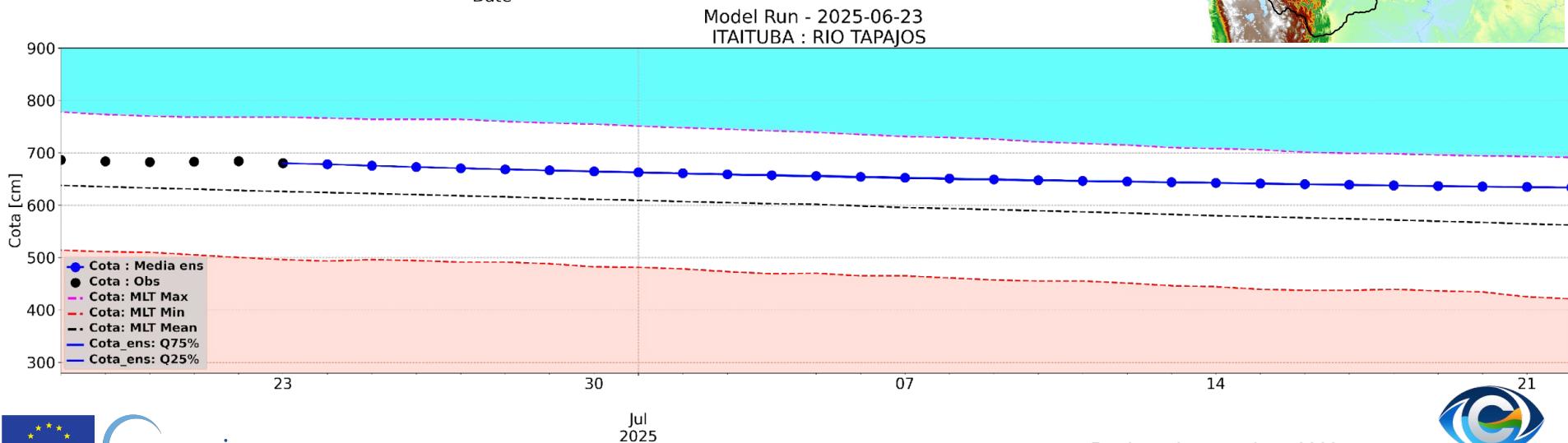
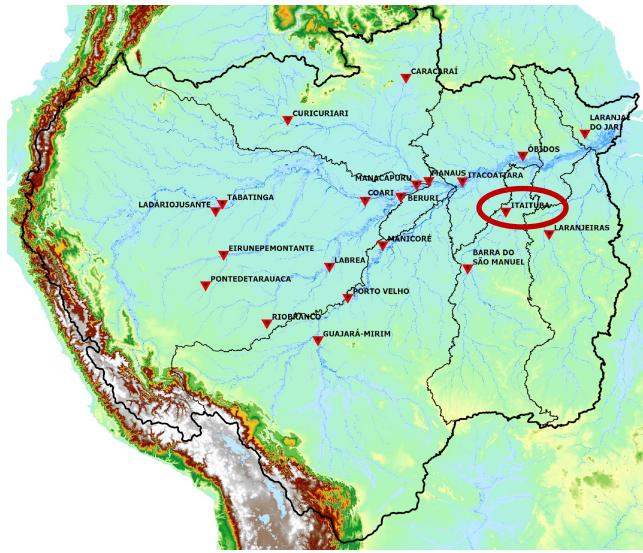
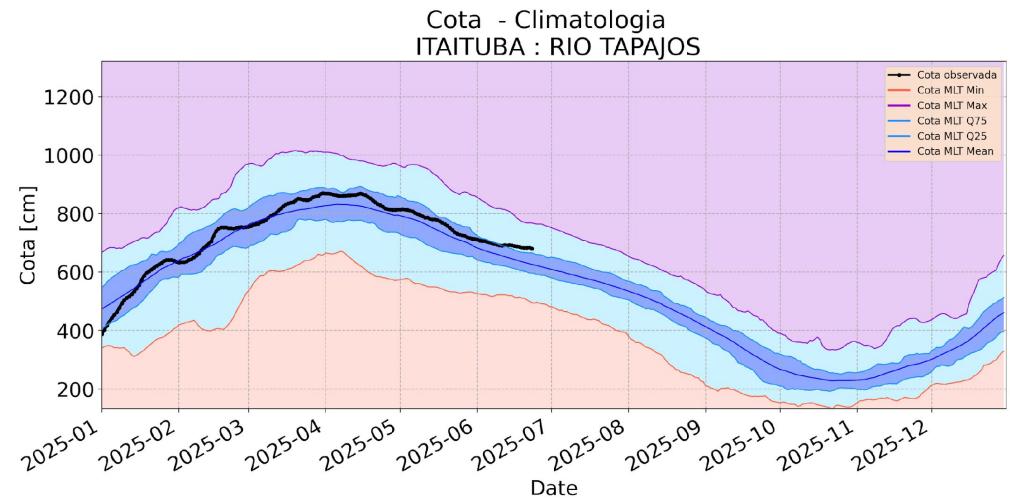
Cota - Climatologia  
ITACOATIARA : RIO SOLIMOES/AMAZONAS

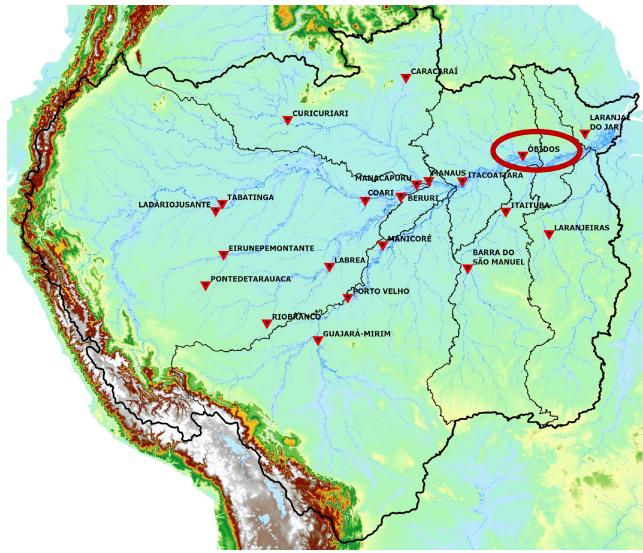
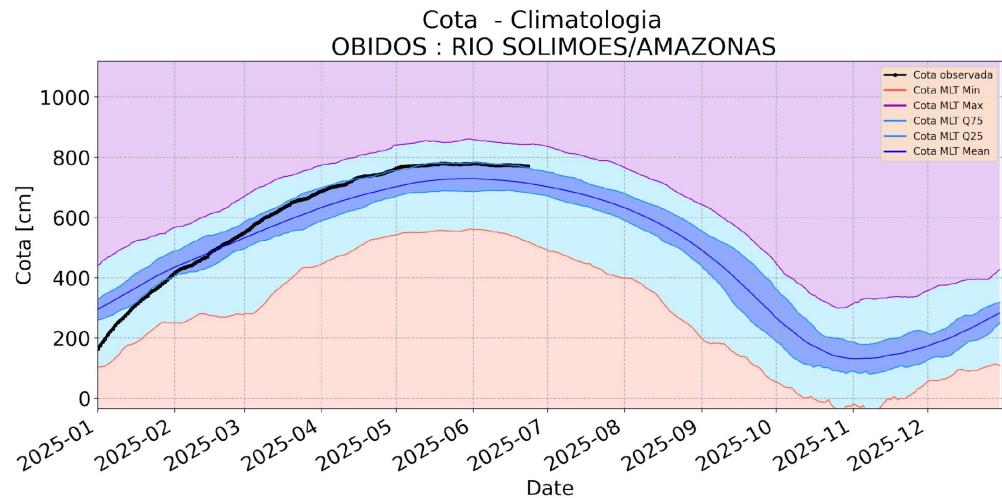


Model Run - 2025-06-23  
ITACOATIARA : RIO SOLIMOES/AMAZONAS

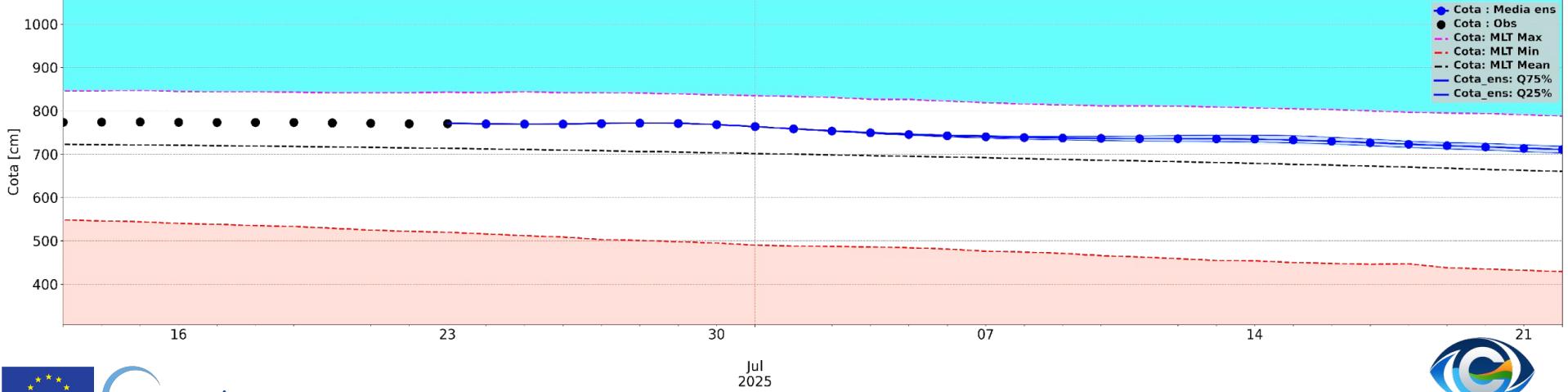


Dados observados: ANA

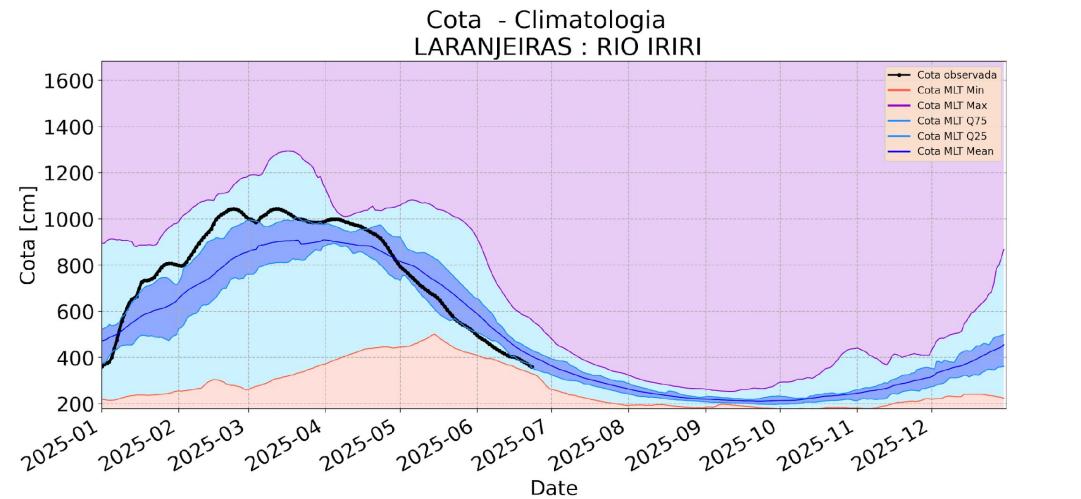




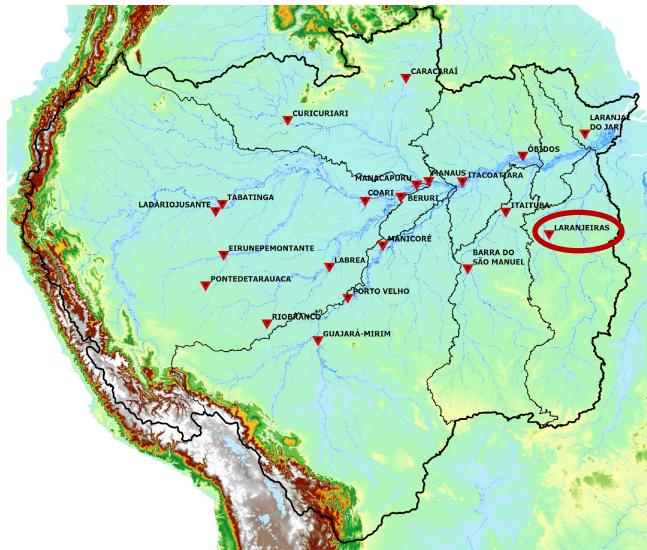
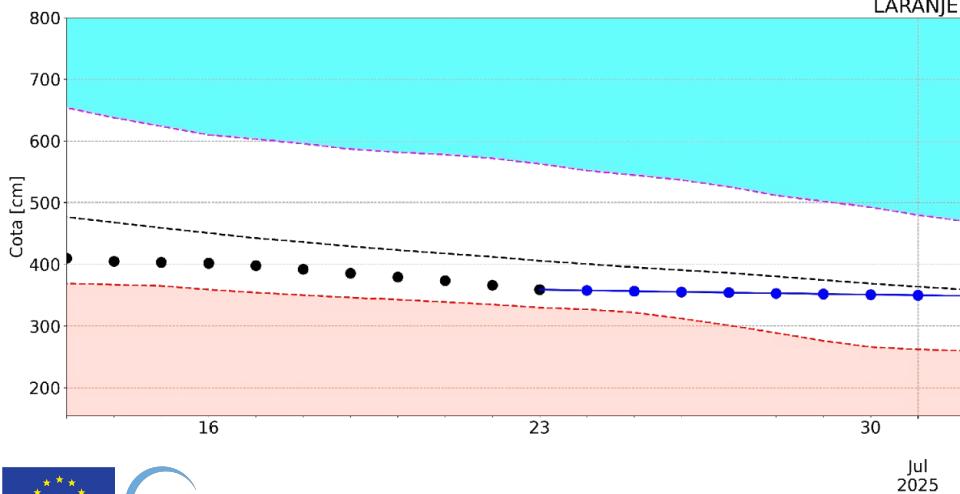
Model Run - 2025-06-23  
**OBIDOS : RIO SOLIMOES/AMAZONAS**



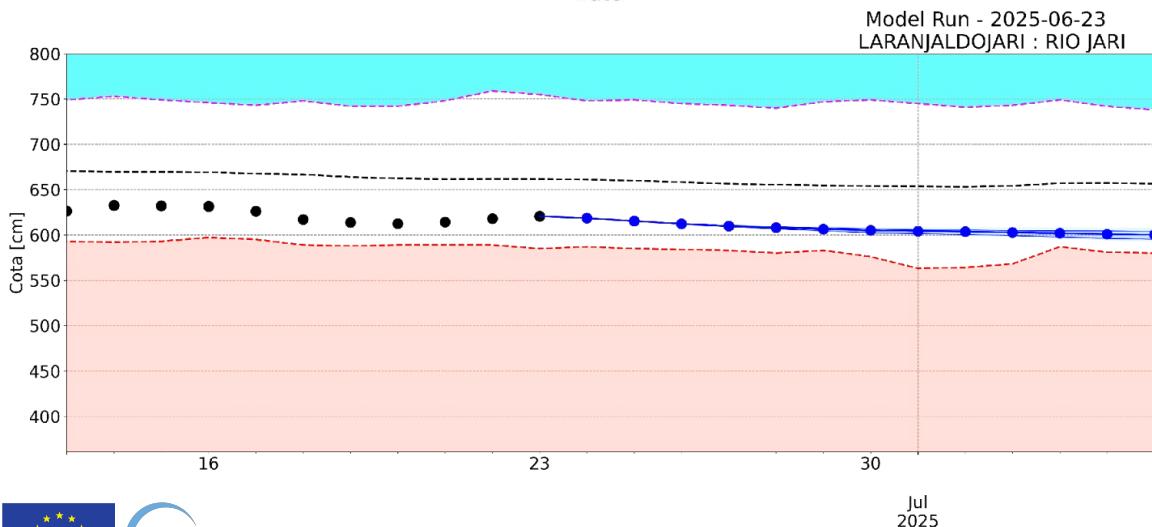
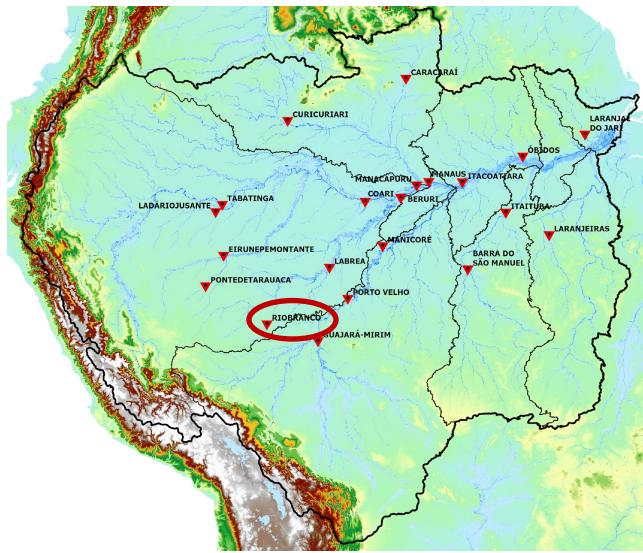
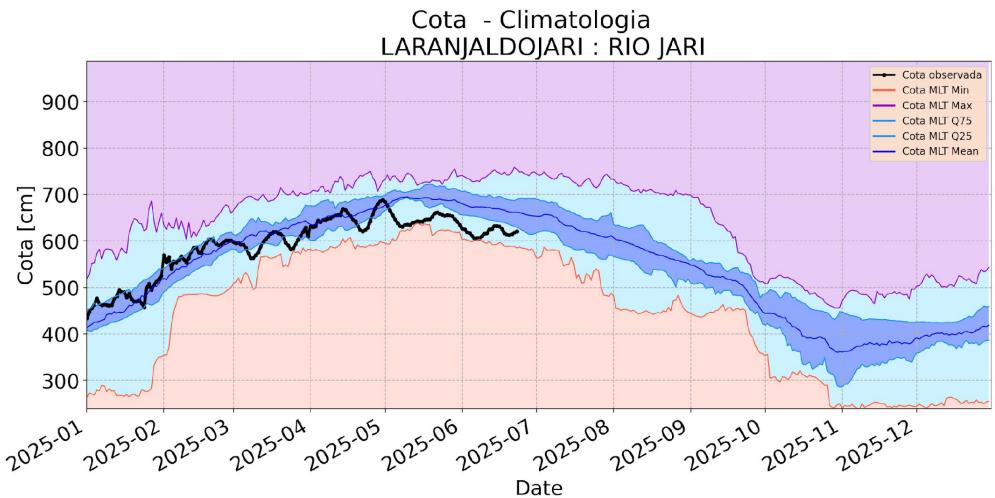
Dados observados: ANA



Model Run - 2025-06-23  
LARANJEIRAS : RIO IRIRI



Dados observados: ANA



## Dados observados: ANA