



CENSIPAM

Centro Gestor e Operacional do
Sistema de Proteção da Amazônia



MINISTÉRIO DA
DEFESA



SipamHidro

Análise e Prognóstico Hidrológico

Setembro/2025

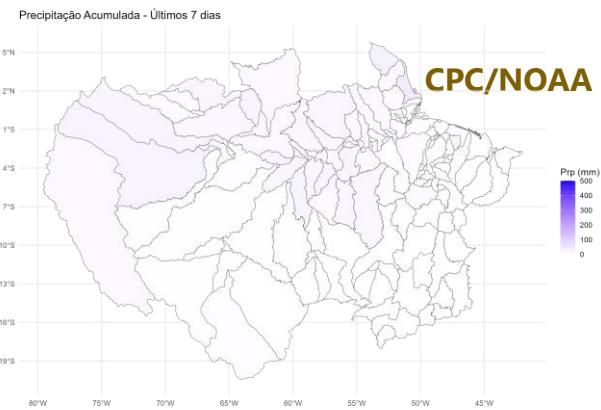
Flávio Altieri
Analista em Ciência e Tecnologia

Resumo

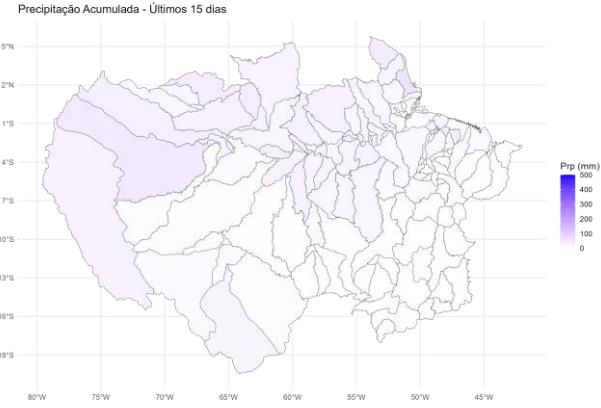
- Análise da precipitação nas bacias
- Comportamento da estiagem
- Diagnóstico das condições dos níveis dos rios
- Prognóstico hidrológico de Vazante

Precipitação Acumulada

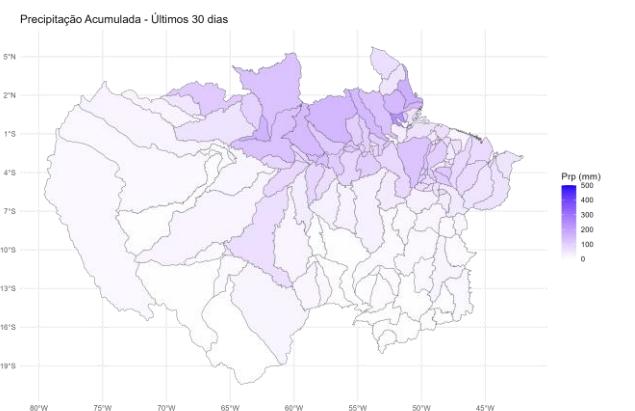
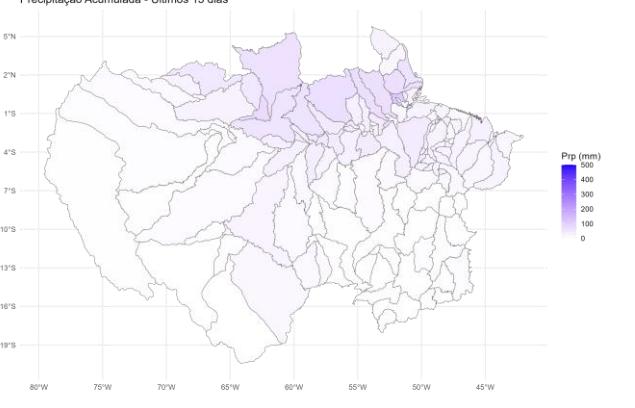
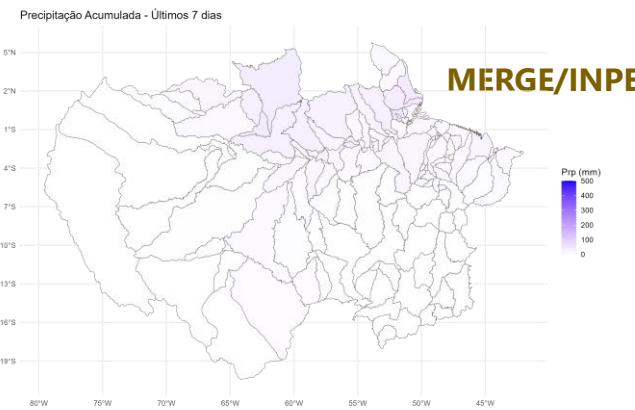
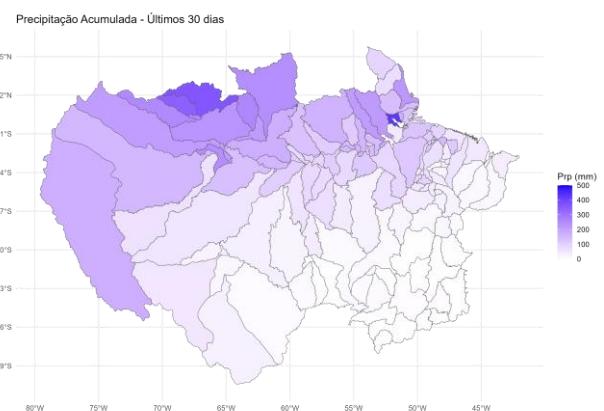
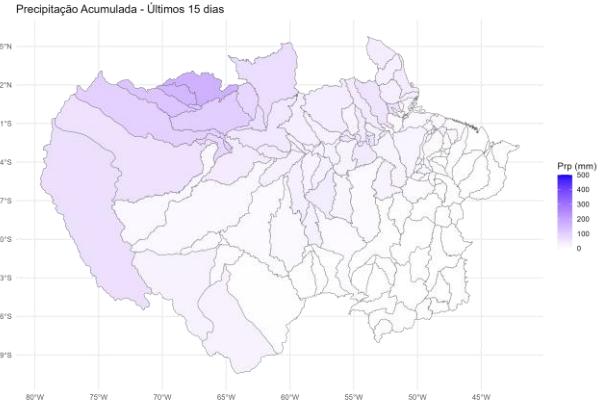
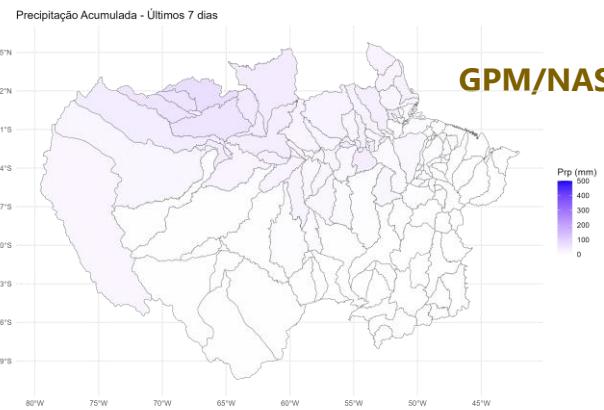
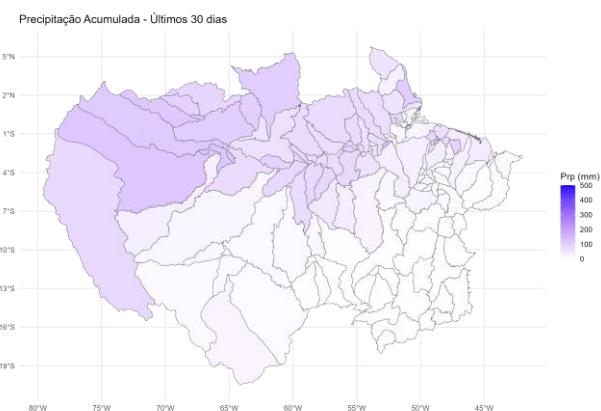
7 dias



15 dias



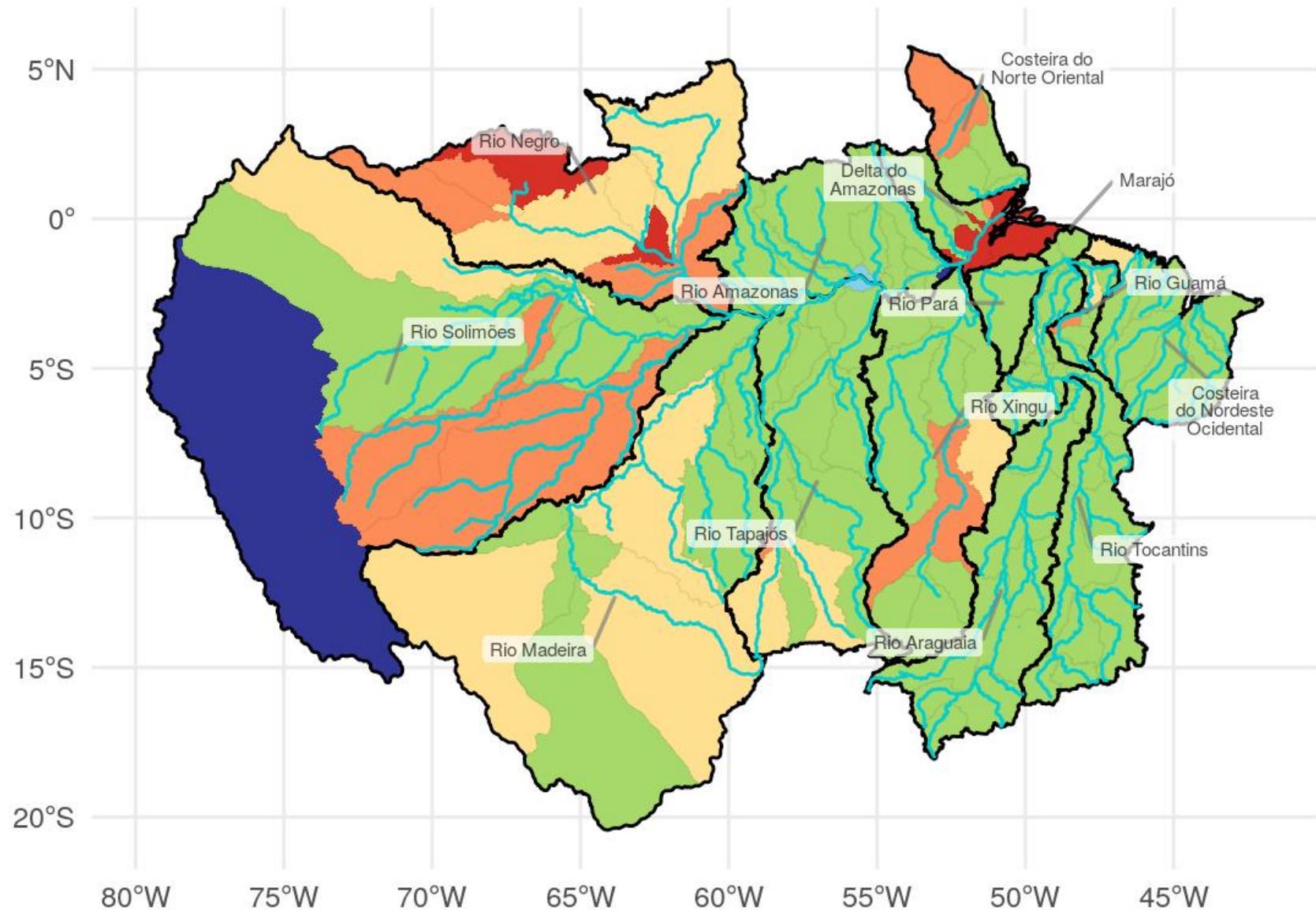
30 dias



Índice de Precipitação Padronizada (IPP) – 01/09/2025

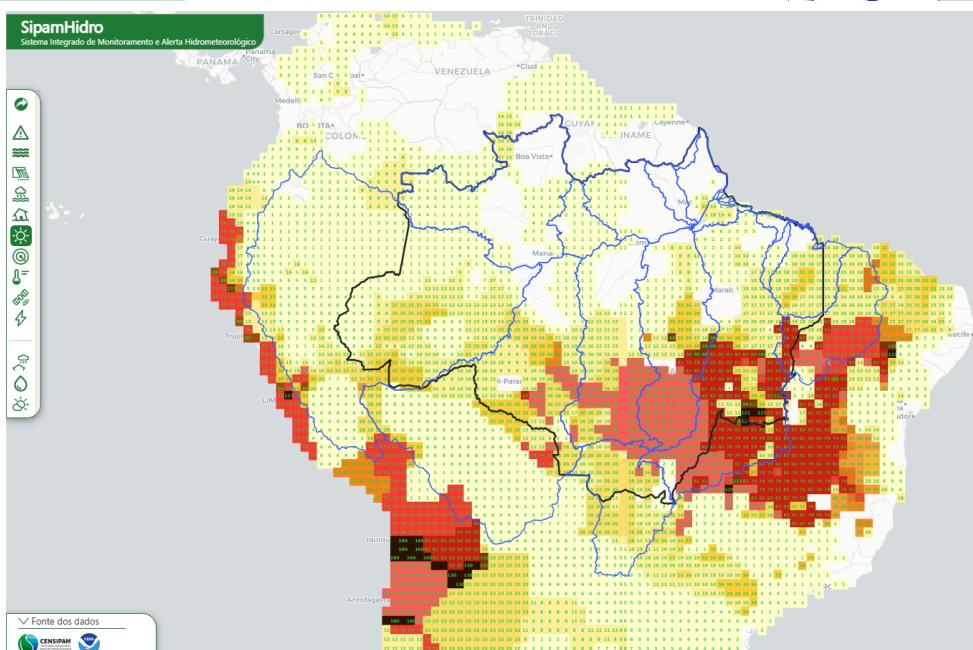
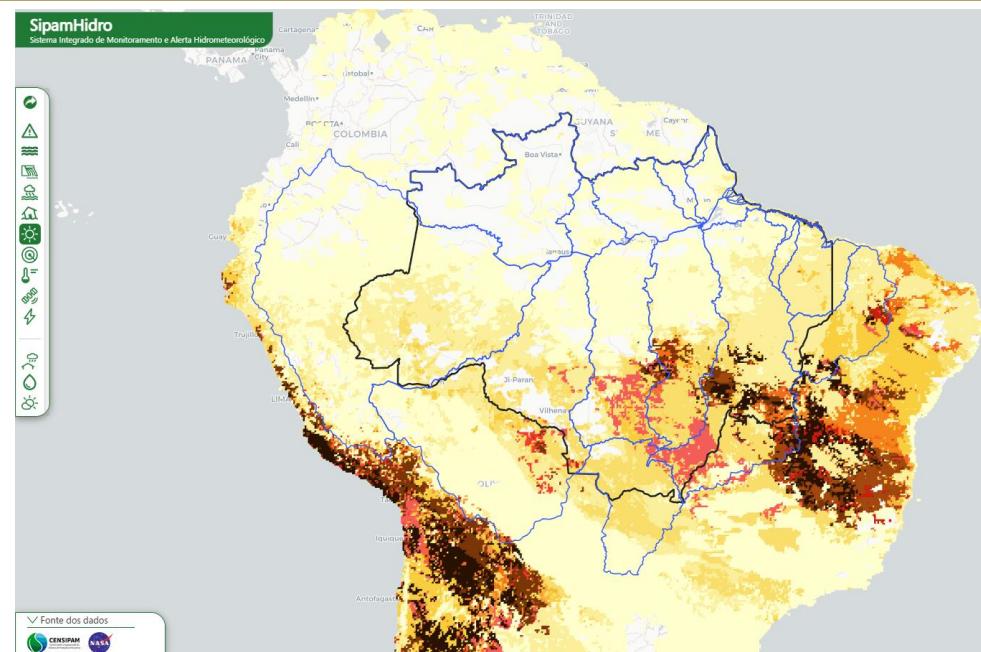
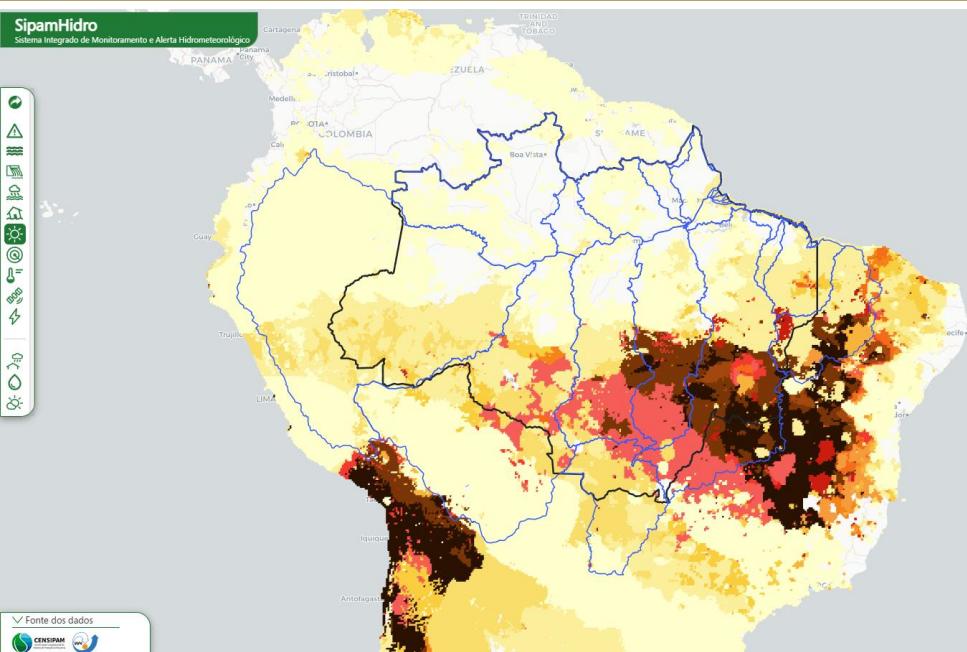
Legenda:

- Anomalia negativa extrema
- Anomalia negativa severa
- Anomalia negativa moderada
- Normalidade
- Anomalia positiva moderada
- Anomalia positiva severa
- Anomalia positiva extrema

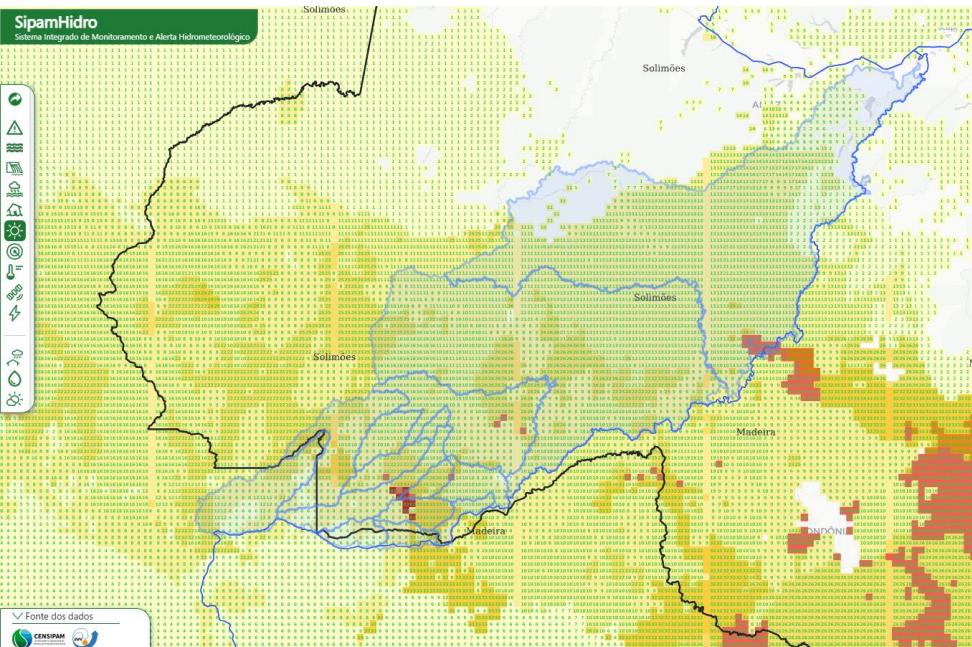


Acumulado de precipitação referente ao período de 31/08/2025 à 01/09/2025 (Fonte: CPC/NOAA)

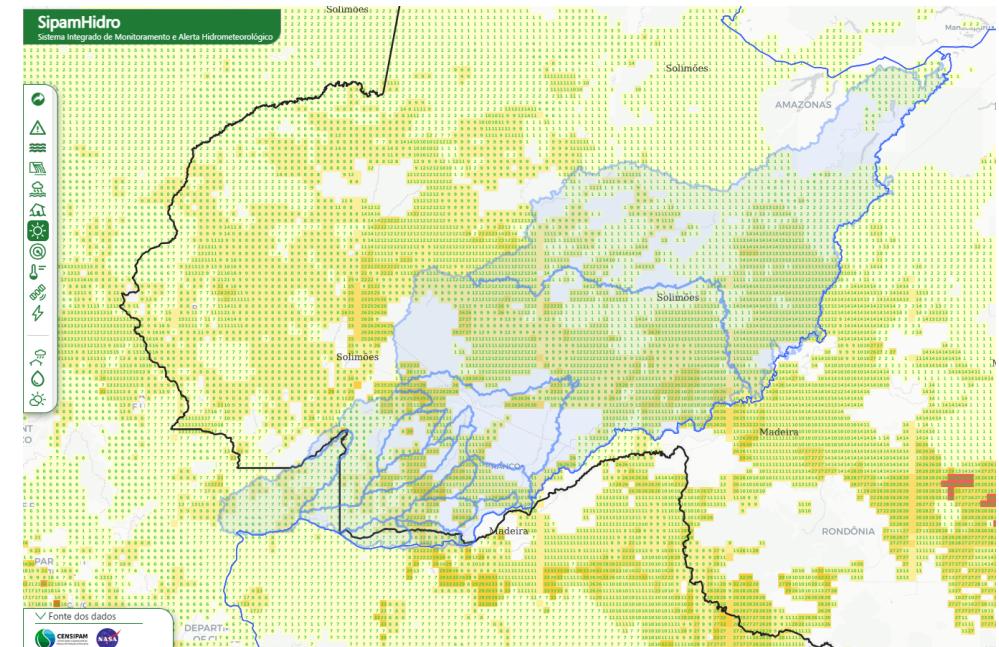
Monitoramento da Estiagem -> 01-set-25



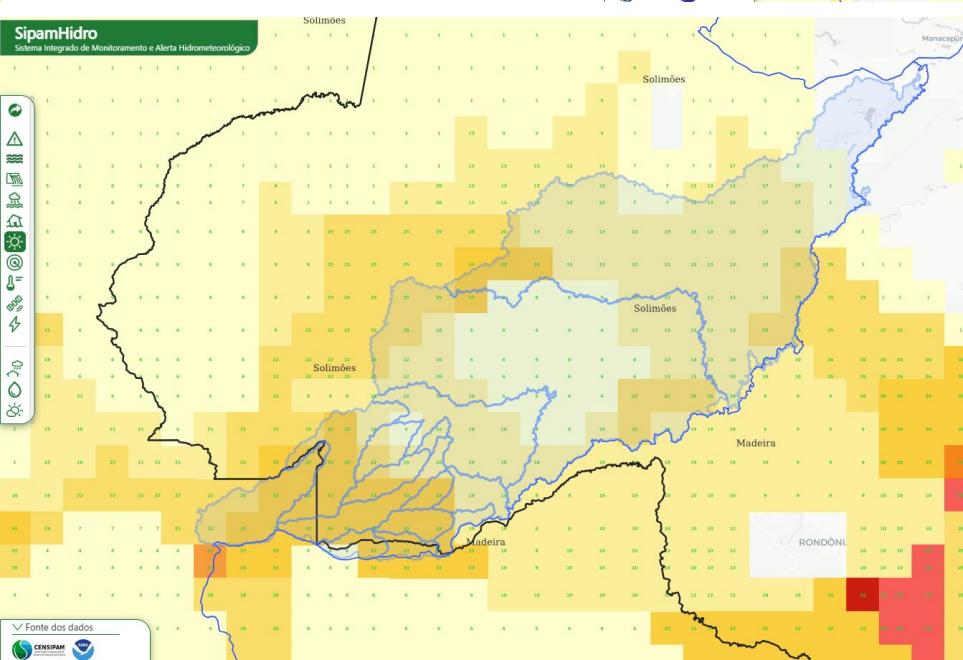
Monitoramento da Estiagem -> Bacia do Rio Purus - 01-set-25



Estimador de precipitação MERGE/ INPE



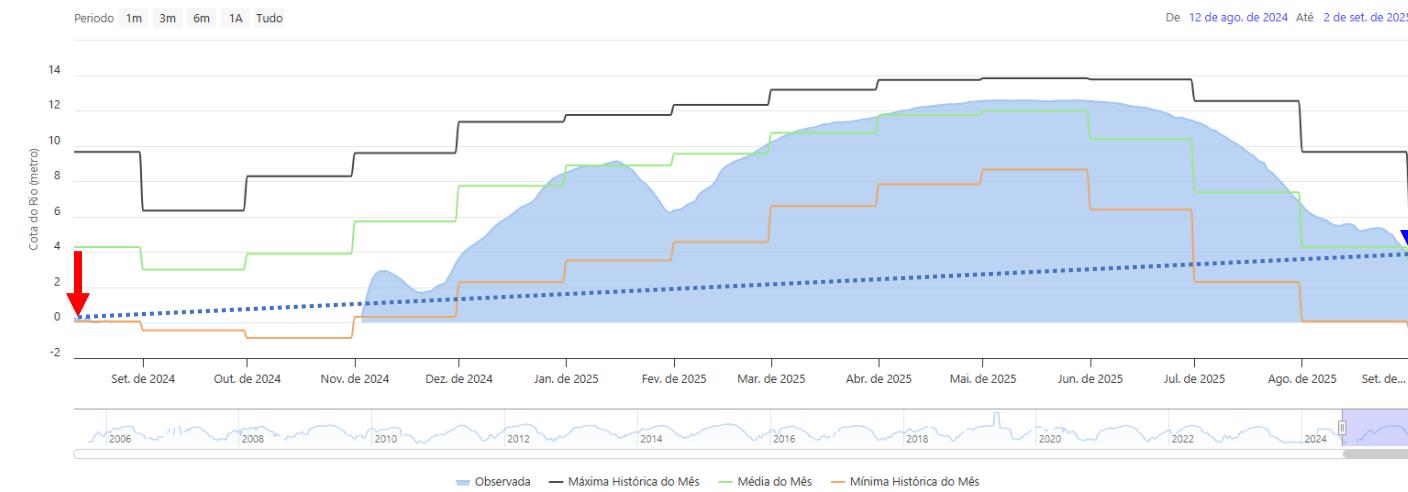
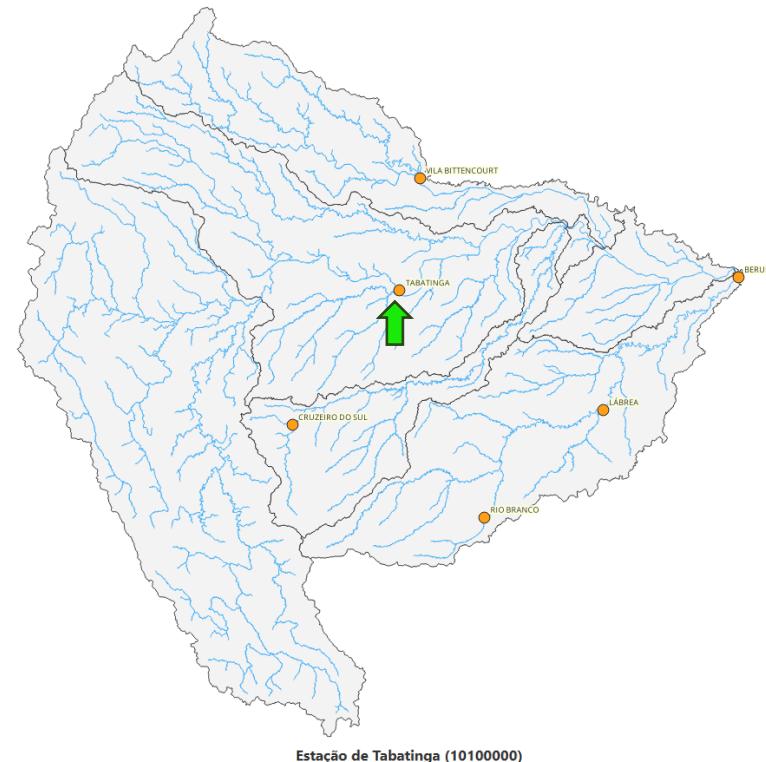
Estimador de precipitação GPM/ NASA



Estimador de precipitação CPC/NOAA

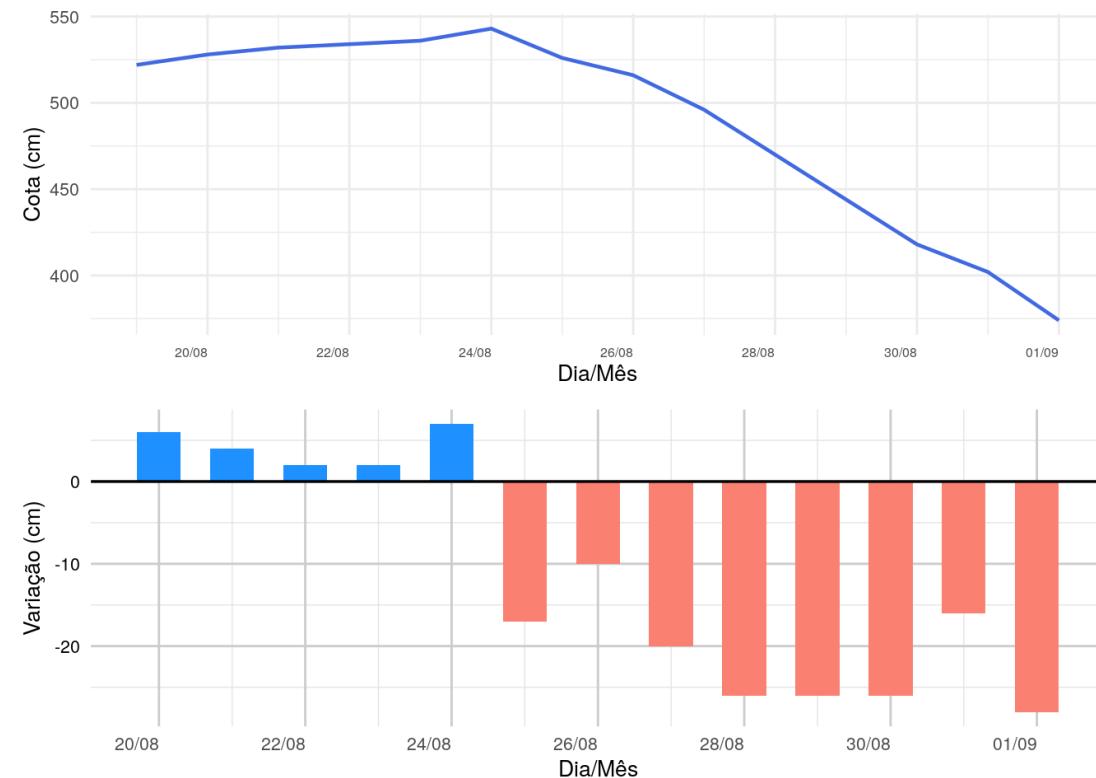
An aerial photograph showing a severe flooding event. In the background, a dense cluster of buildings, including several larger industrial-looking structures, sits on a hillside. A wide river or canal has溢出 (over溢) its banks, inundating the surrounding land and numerous smaller houses. The water covers almost half of the visible area. In the foreground, the tops of several houses are visible above the floodwater, their roofs appearing dark against the lighter-colored water. The overall scene conveys a sense of significant flooding and potential disaster.

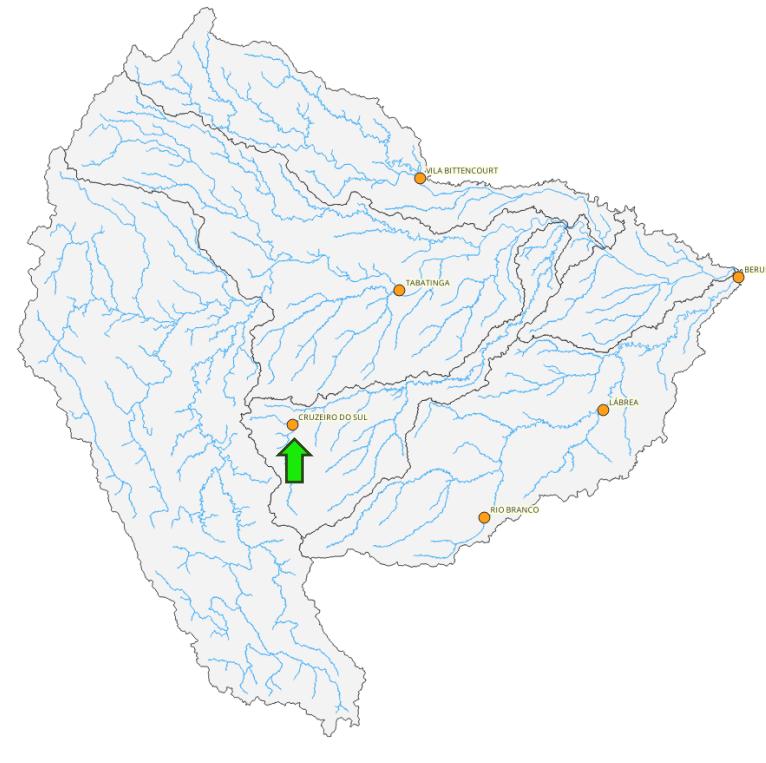
Diagnóstico dos Níveis dos Rios



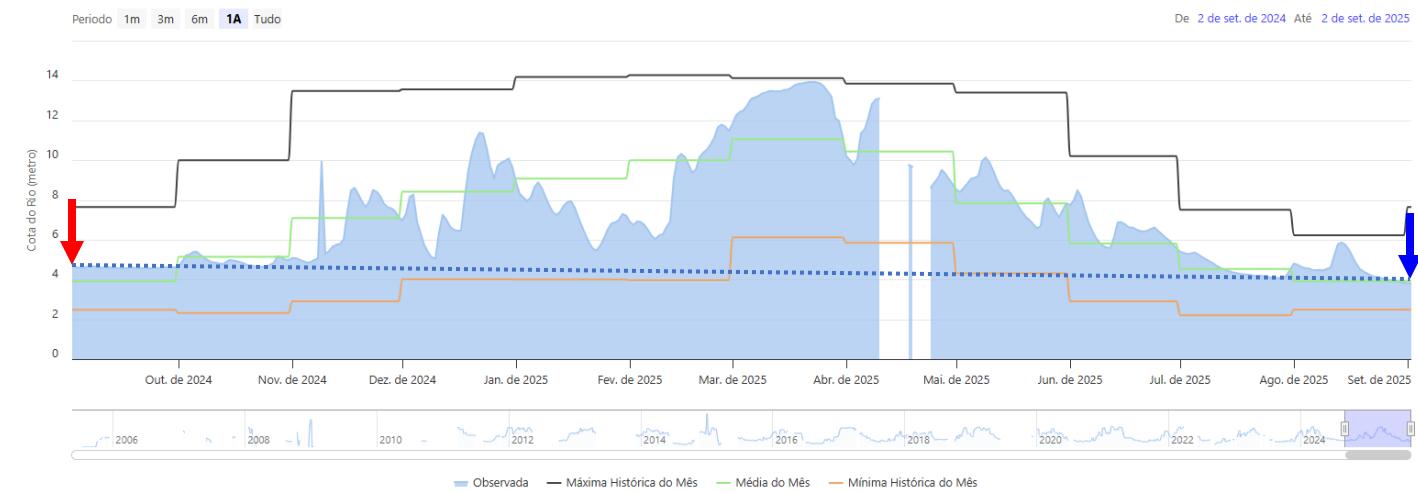
Rio Solimões – Estação de Tabatinga (AM)

Variação das cotas nos últimos 15 dias: -148 cm, em média -9,9 cm por dia.



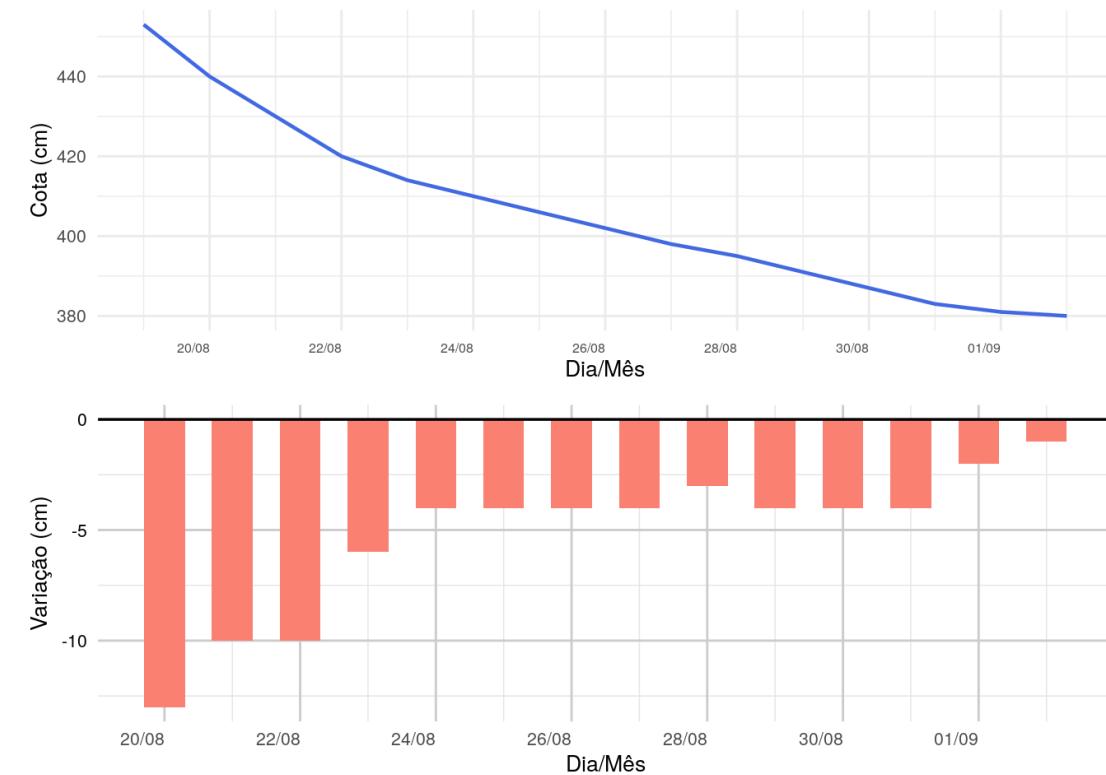


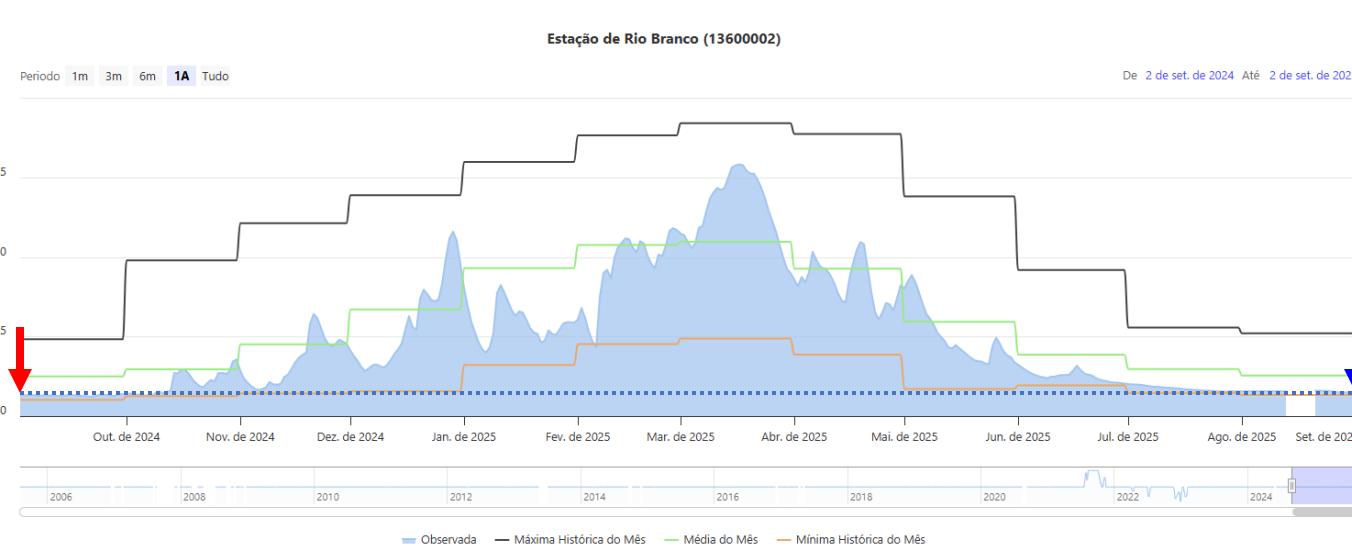
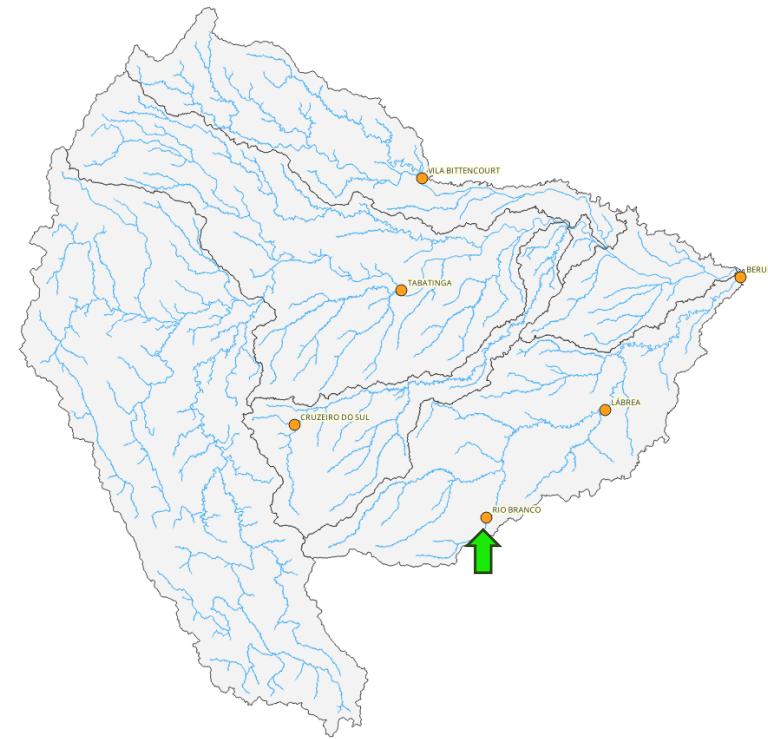
Estação de Cruzeiro Do Sul (12500000)



Rio Juruá – Estação de Cruzeiro do Sul (AC)

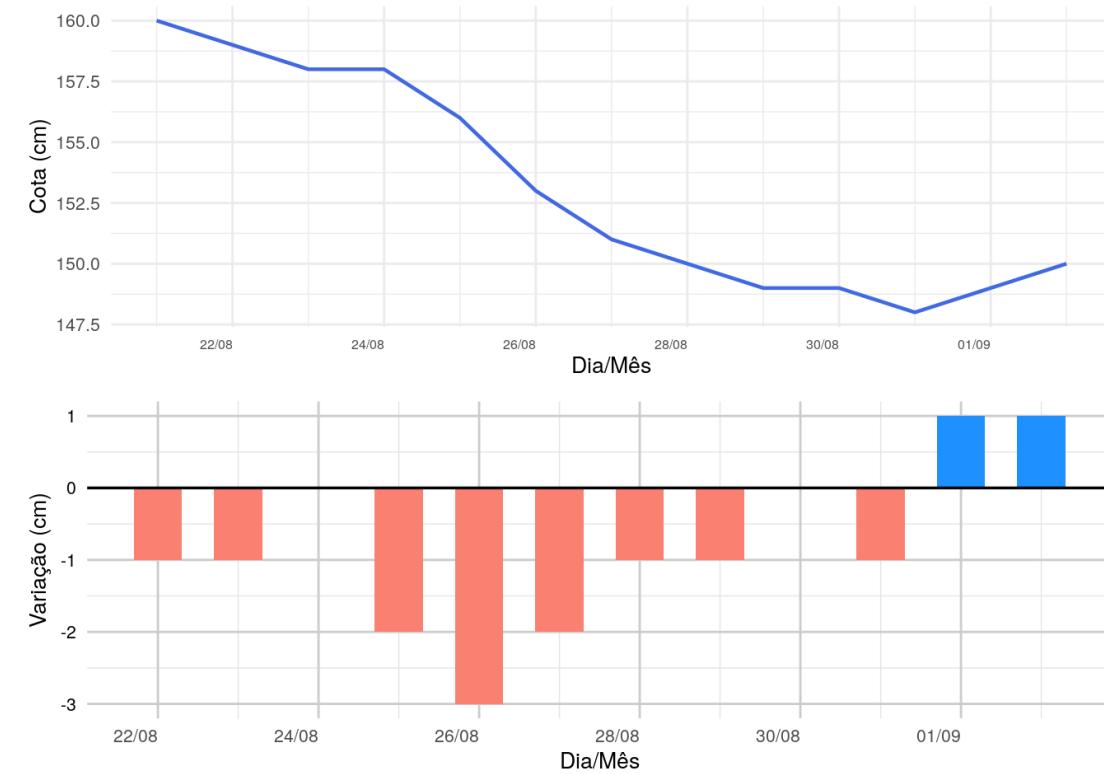
Variação das cotas nos últimos 15 dias: -73 cm, em média -4,9 cm por dia.

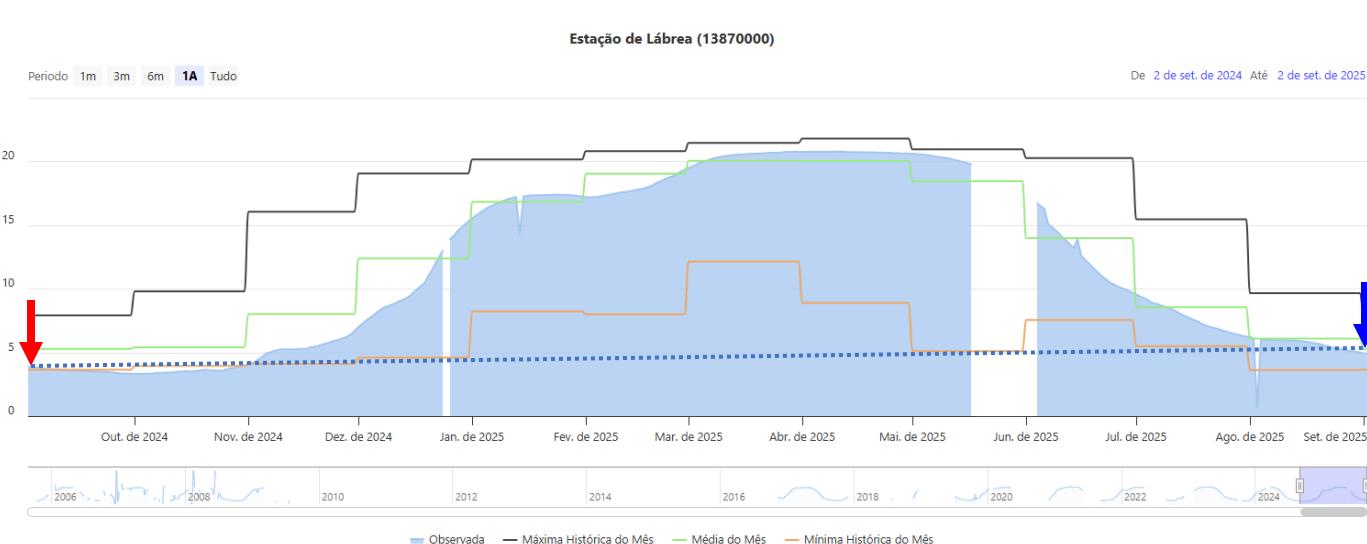
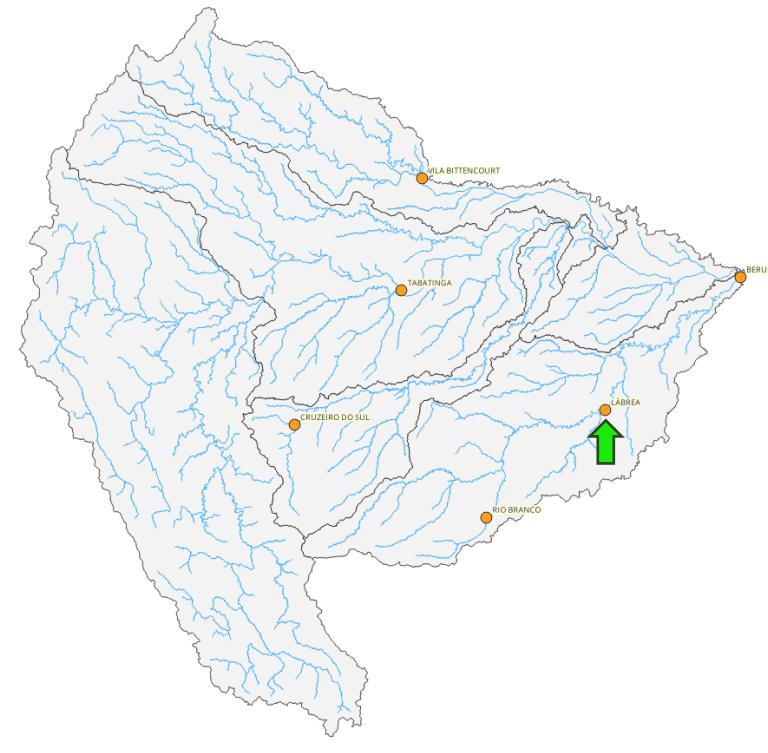




Rio Acre – Estação de Rio Branco (AC)

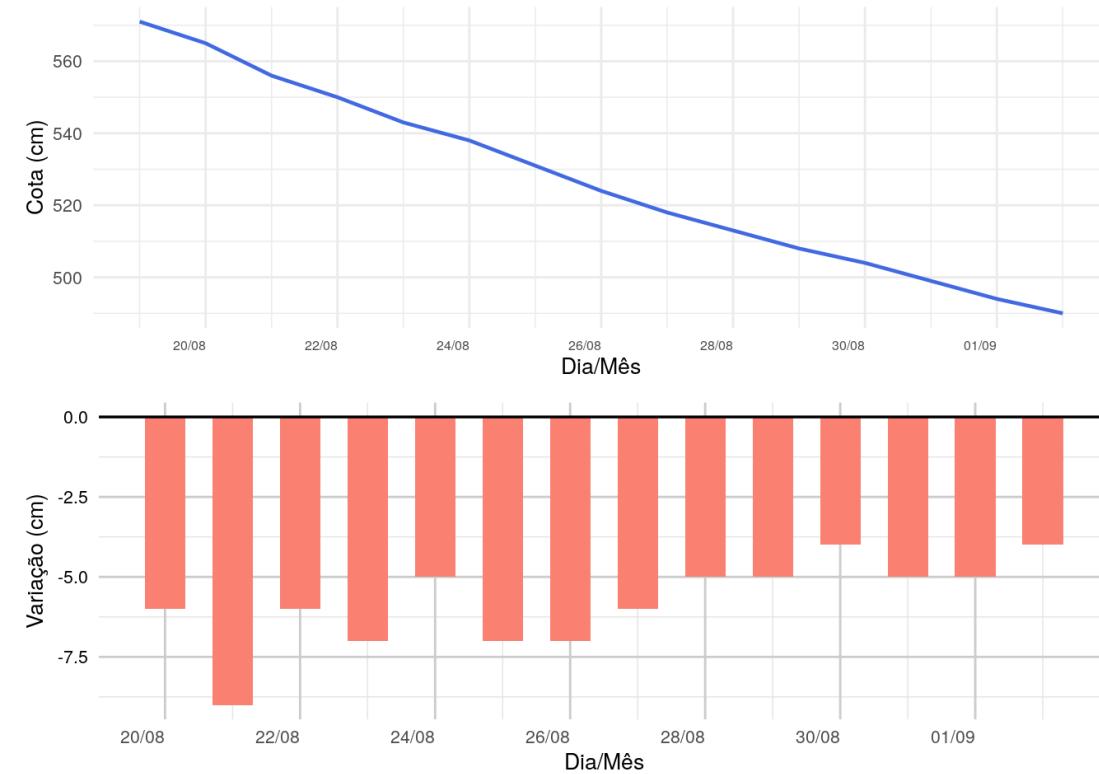
Variação das cotas nos últimos 15 dias: -10 cm, em média -0,7 cm por dia.

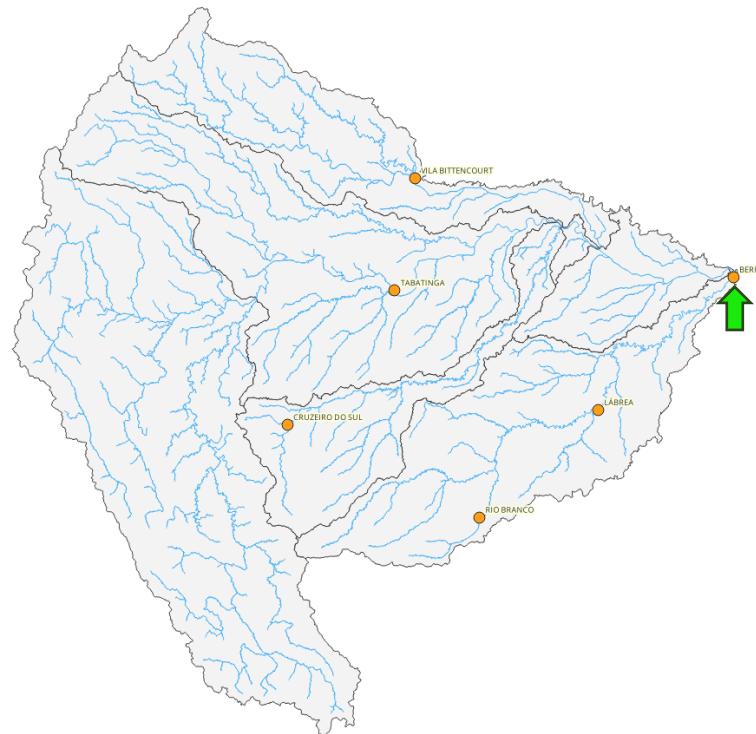




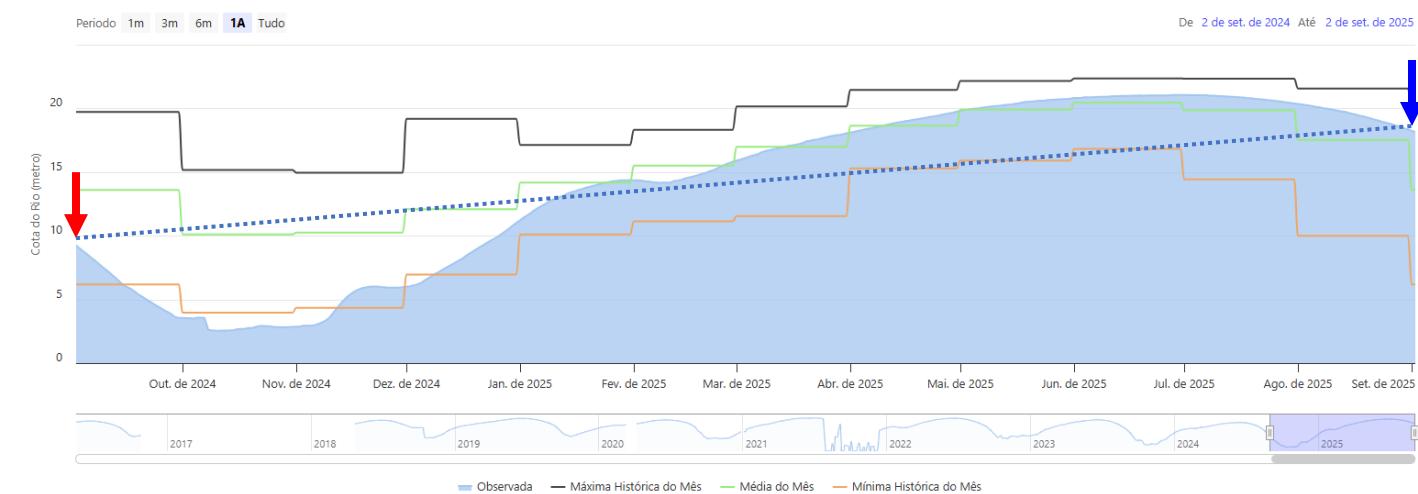
Rio Purus – Estação de Lábrea (AM)

Variação das cotas nos últimos 15 dias: -81 cm, em média -5,4 cm por dia.



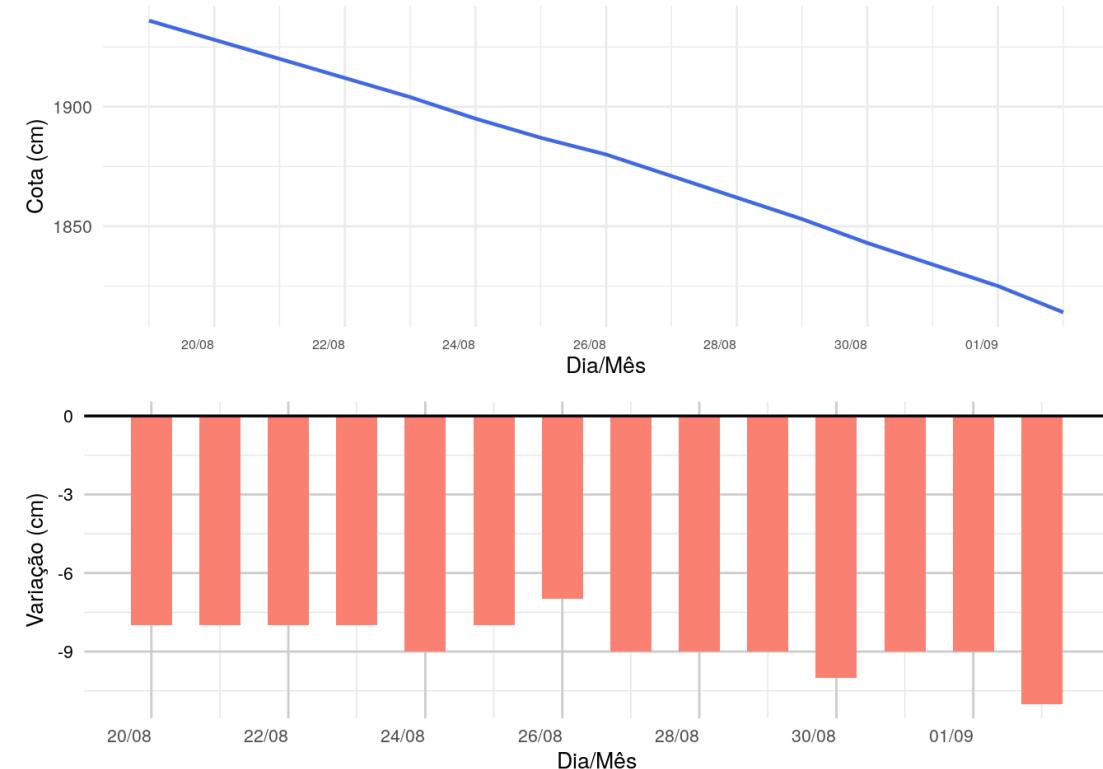


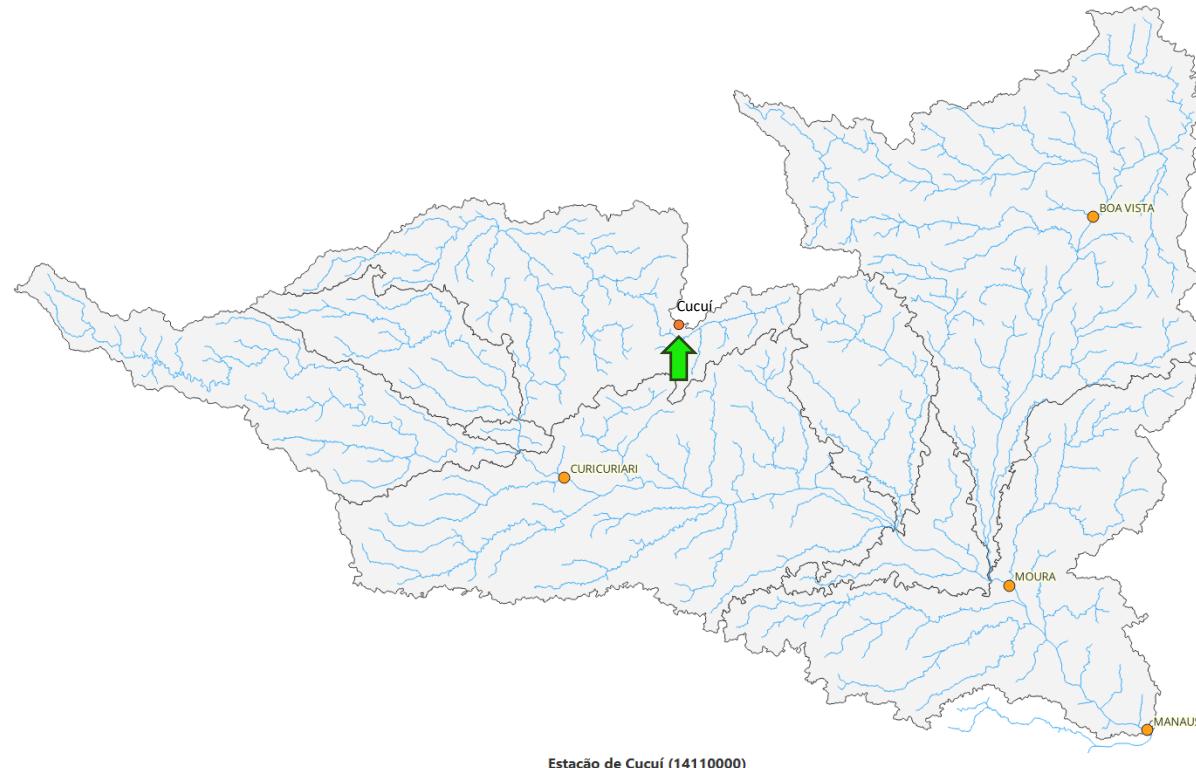
Estação de Beruri (13990000)



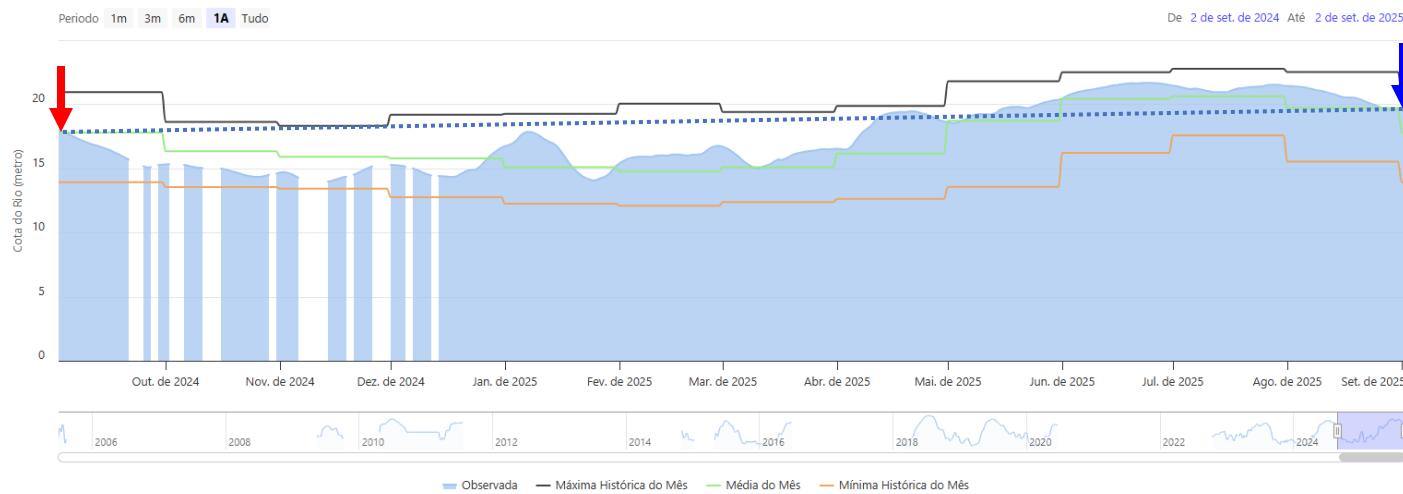
Rio Solimões – Estação de Beruri (AM)

Variação das cotas nos últimos 15 dias: -122 cm, em média -8,1 cm por dia.



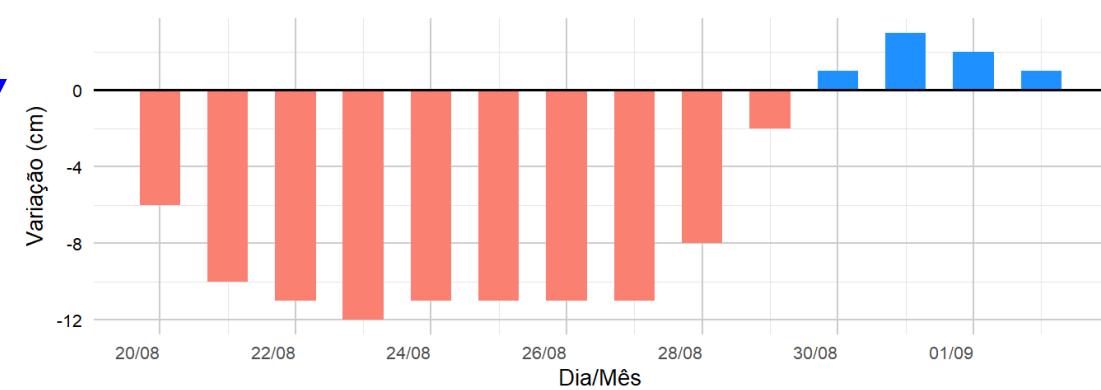
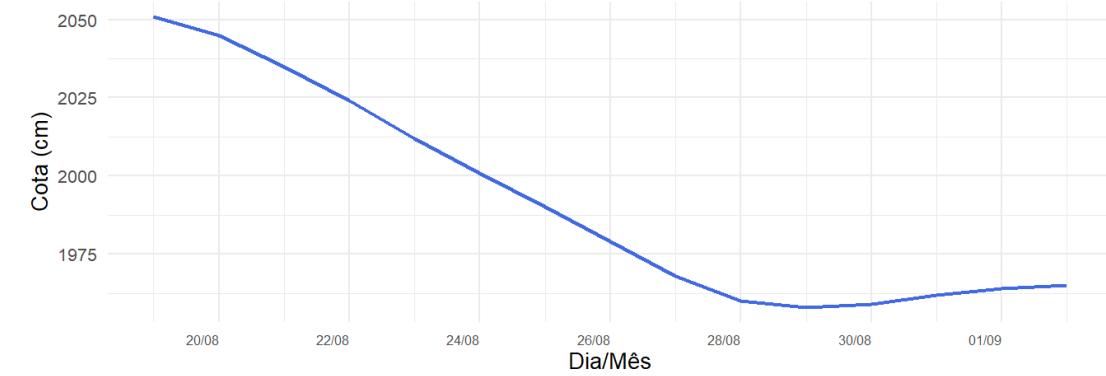


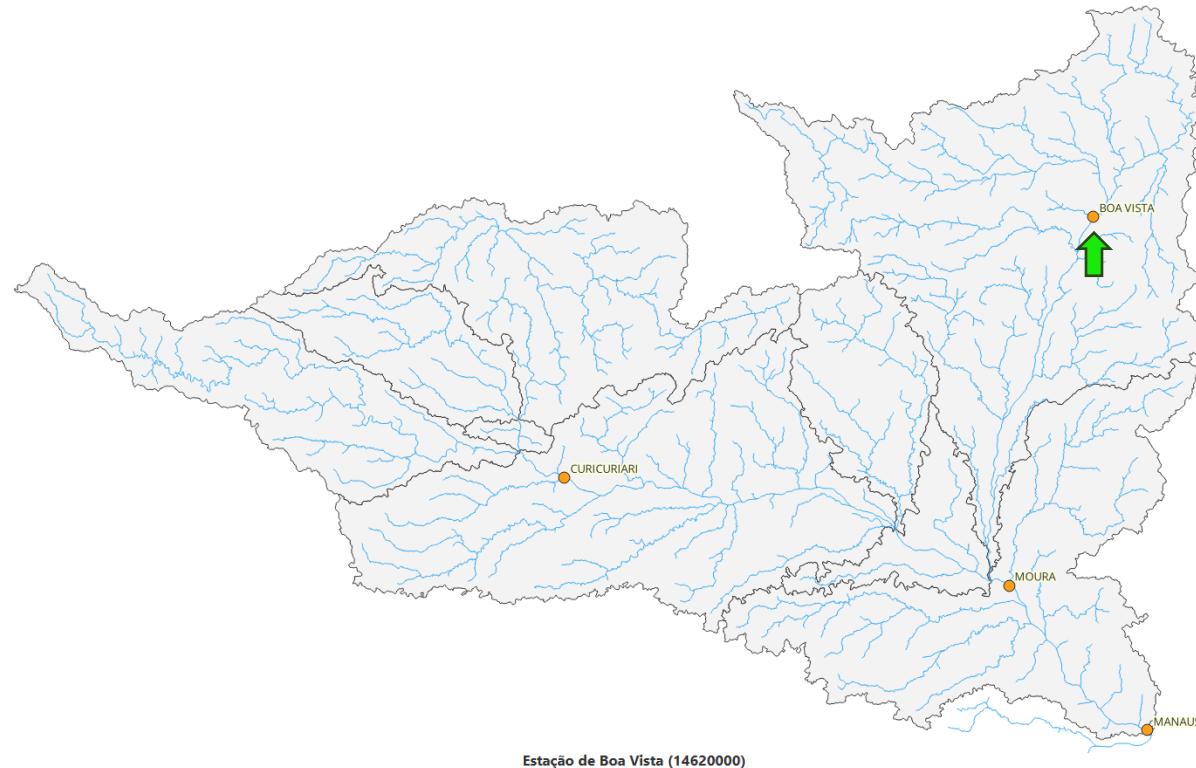
Estação de Cucuí (14110000)



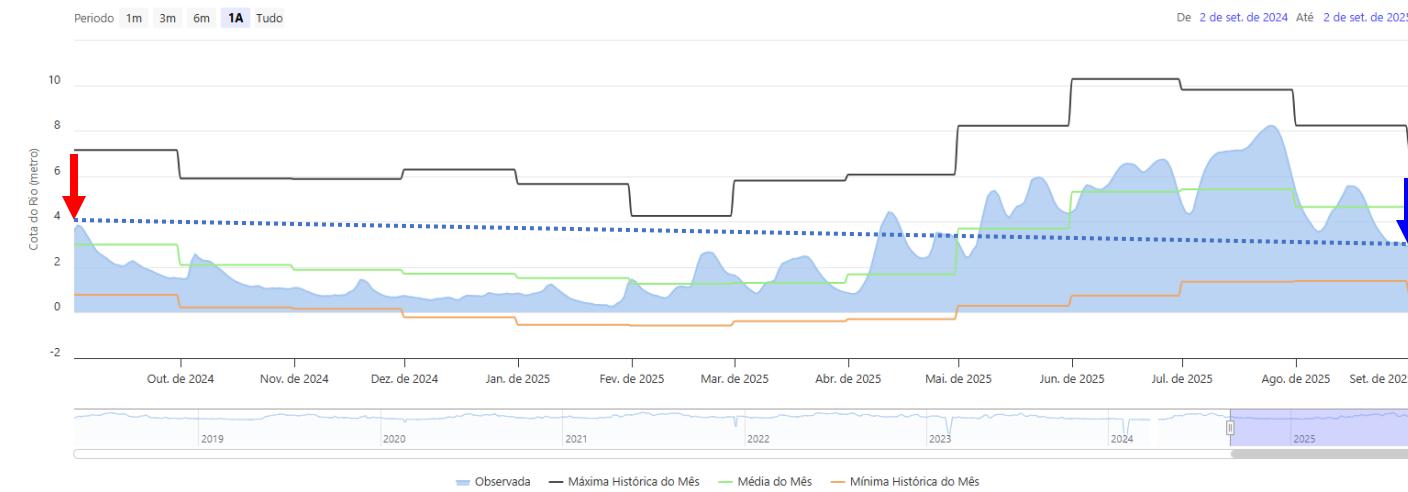
Rio Negro – Estação de Cucuí (AM)

Variação das cotas nos últimos 15 dias: -86 cm, em média -5,7 cm por dia.



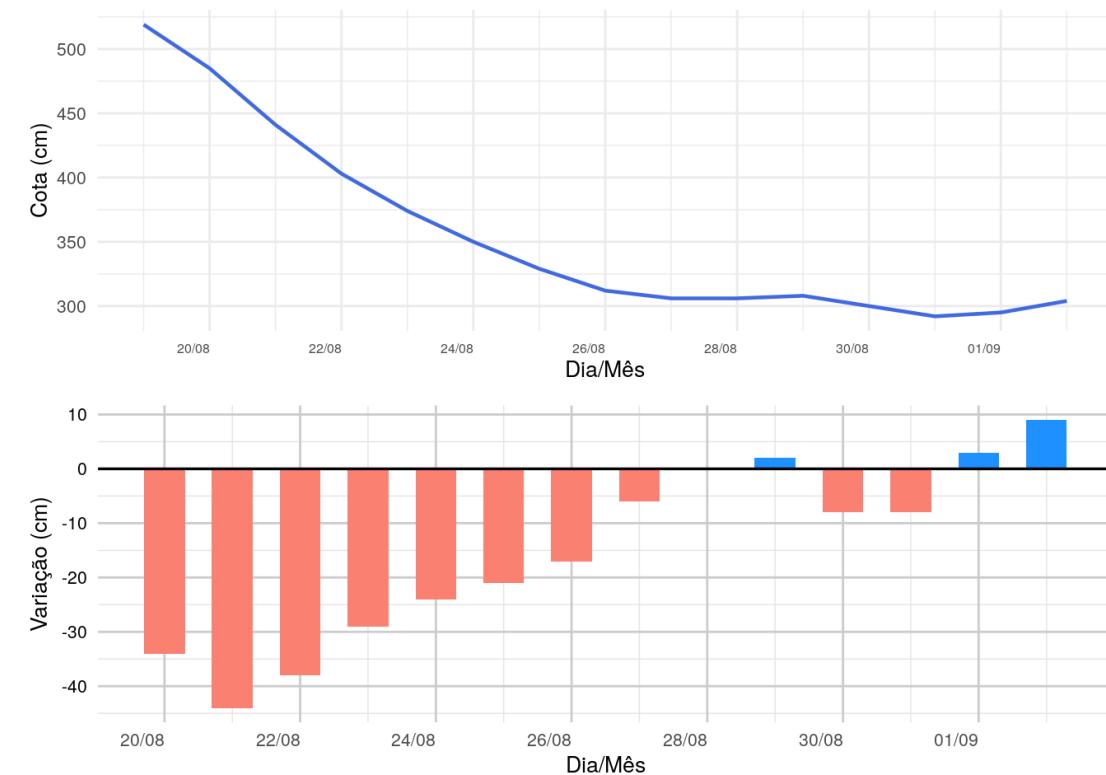


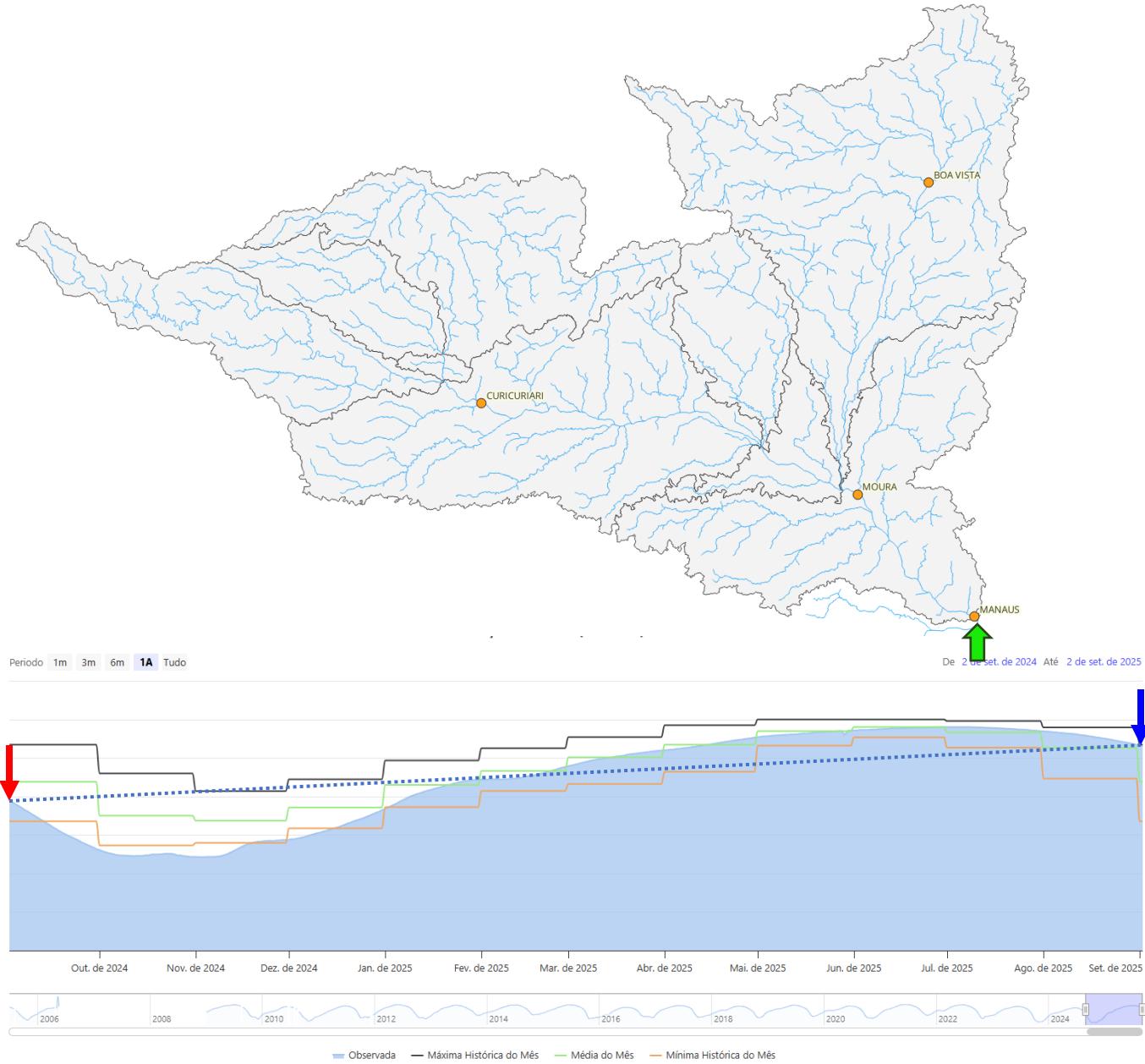
Estação de Boa Vista (14620000)



Rio Branco – Estação de Boa Vista (RR)

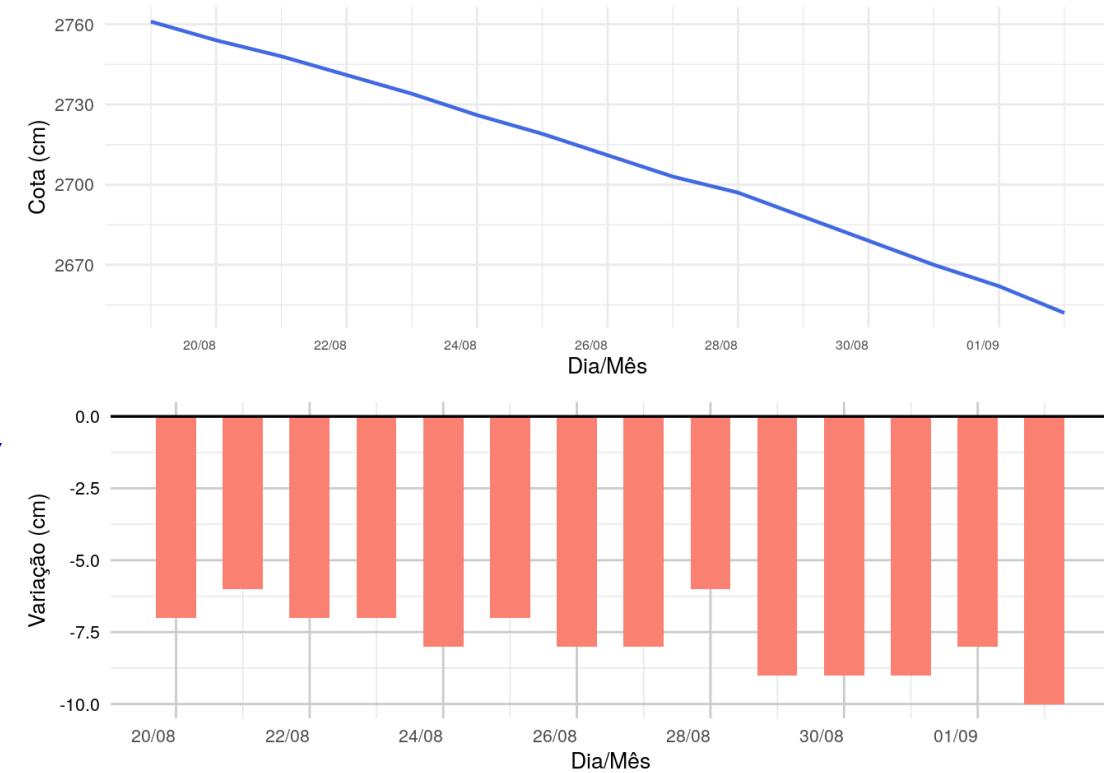
Variação das cotas nos últimos 15 dias: -215 cm, em média -14,33 cm por dia.

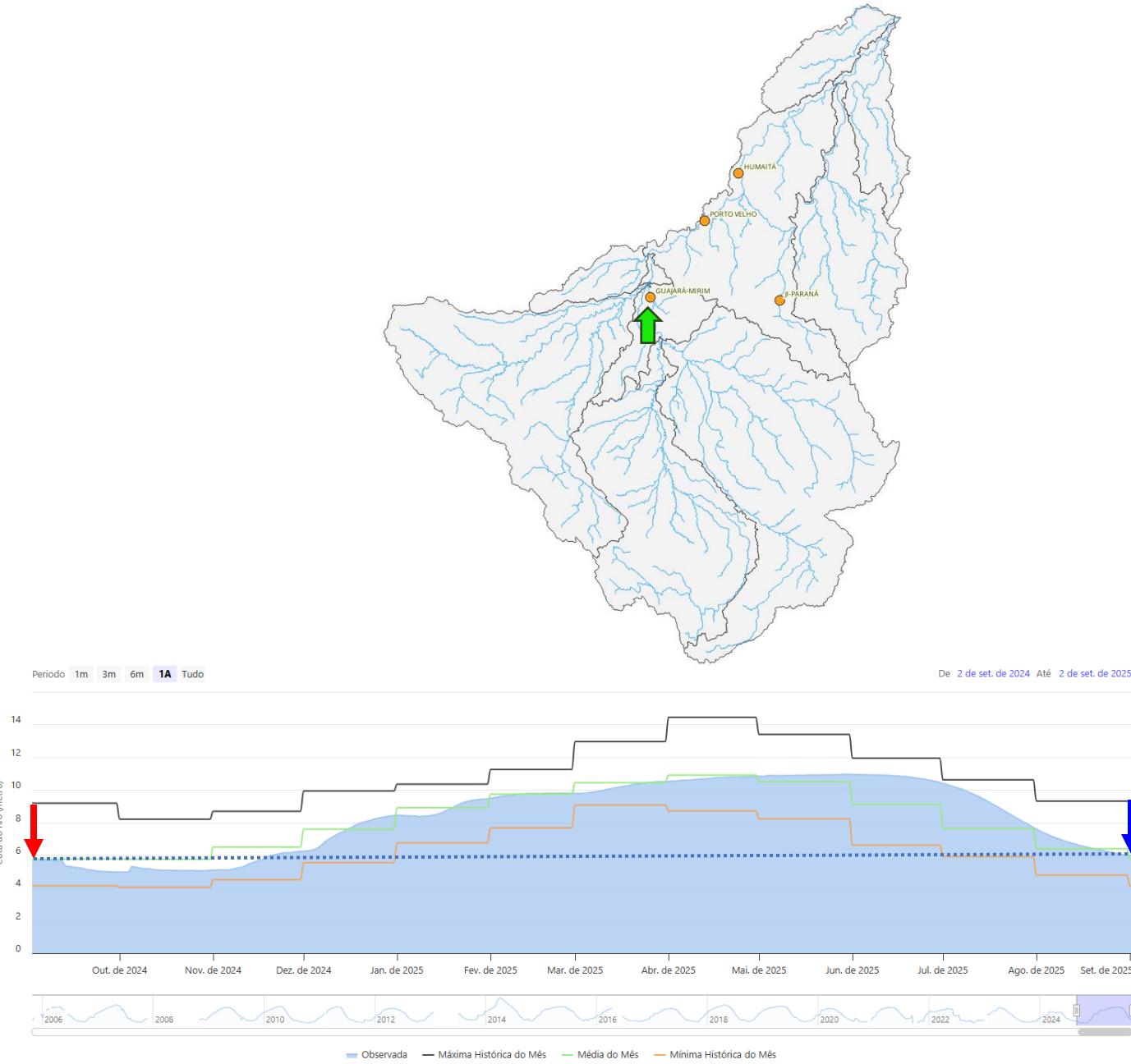




Rio Solimões – Estação de Manaus (AM)

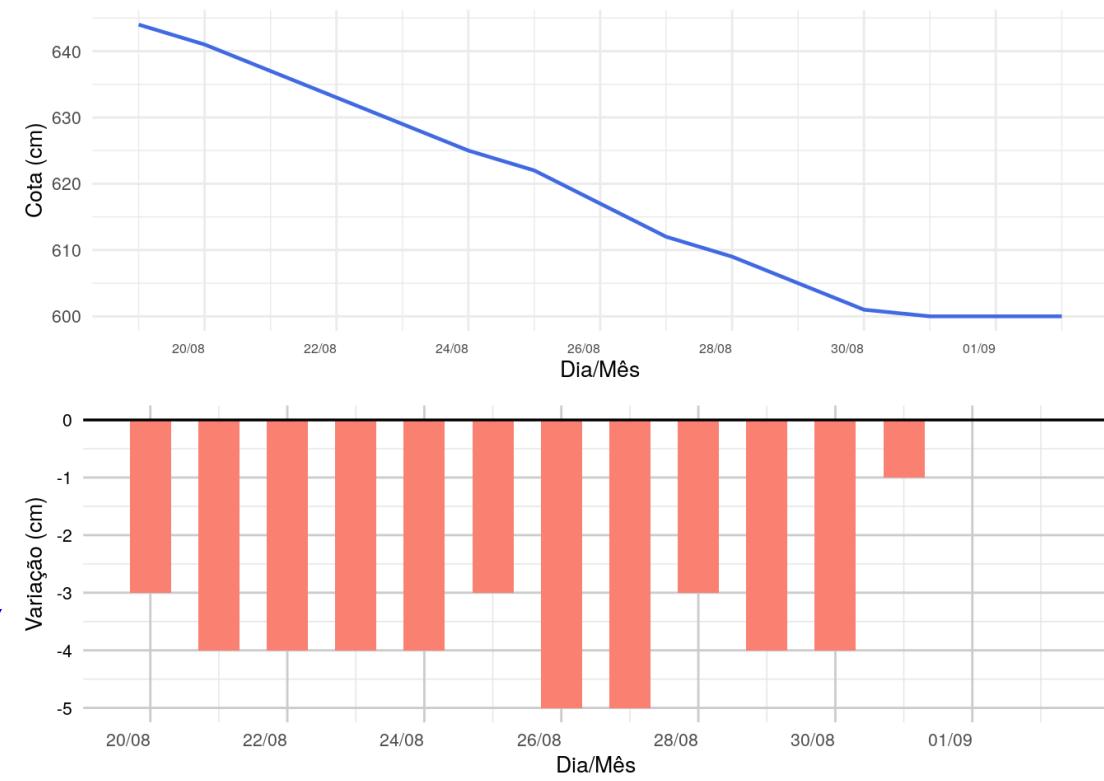
Variação das cotas nos últimos 15 dias: -109 cm, em média -7,3 cm por dia.

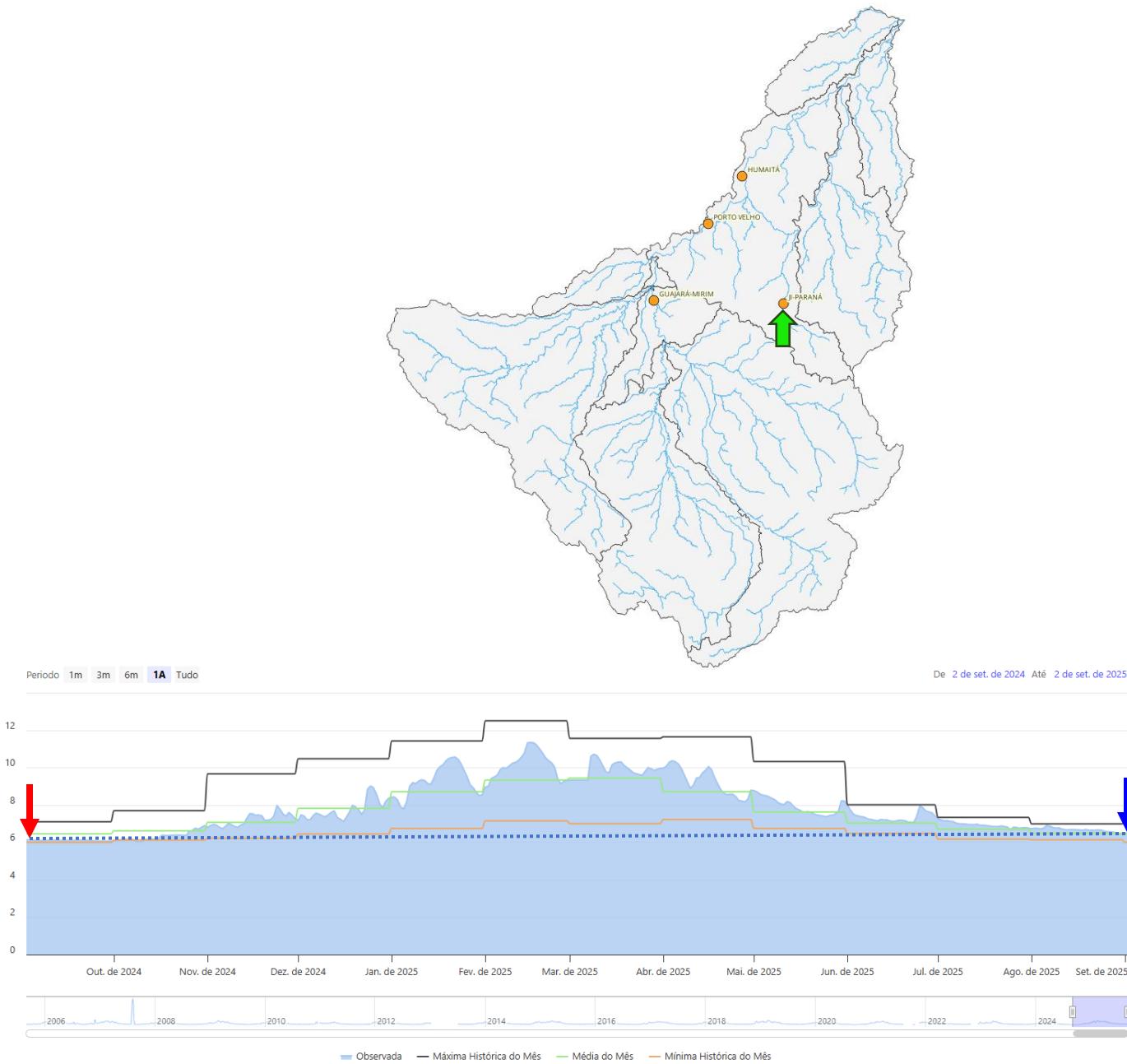




Rio Mamoré – Estação de Guajará-Mirim (RO)

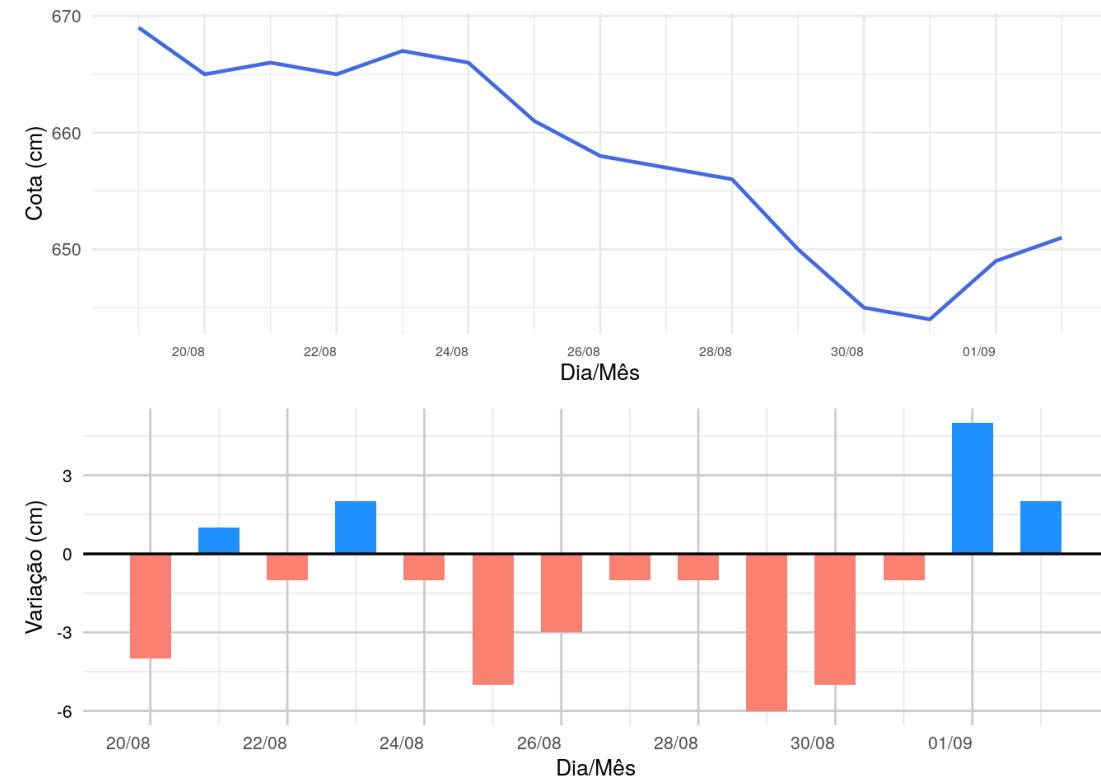
Variação das cotas nos últimos 15 dias: -44 cm, em média -2,9 cm por dia.

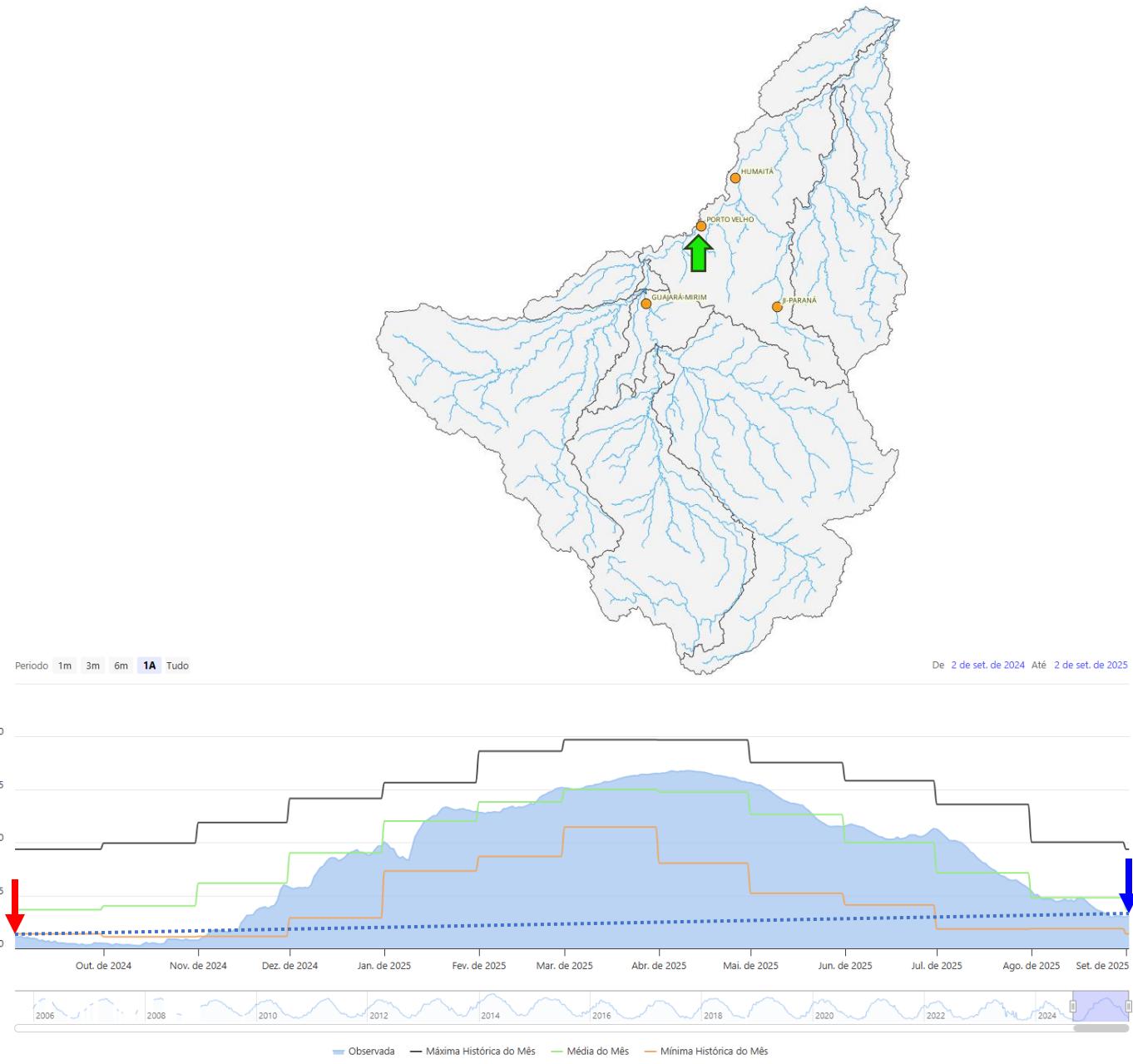




Rio Jiparaná – Estação de Ji-Paraná (RO)

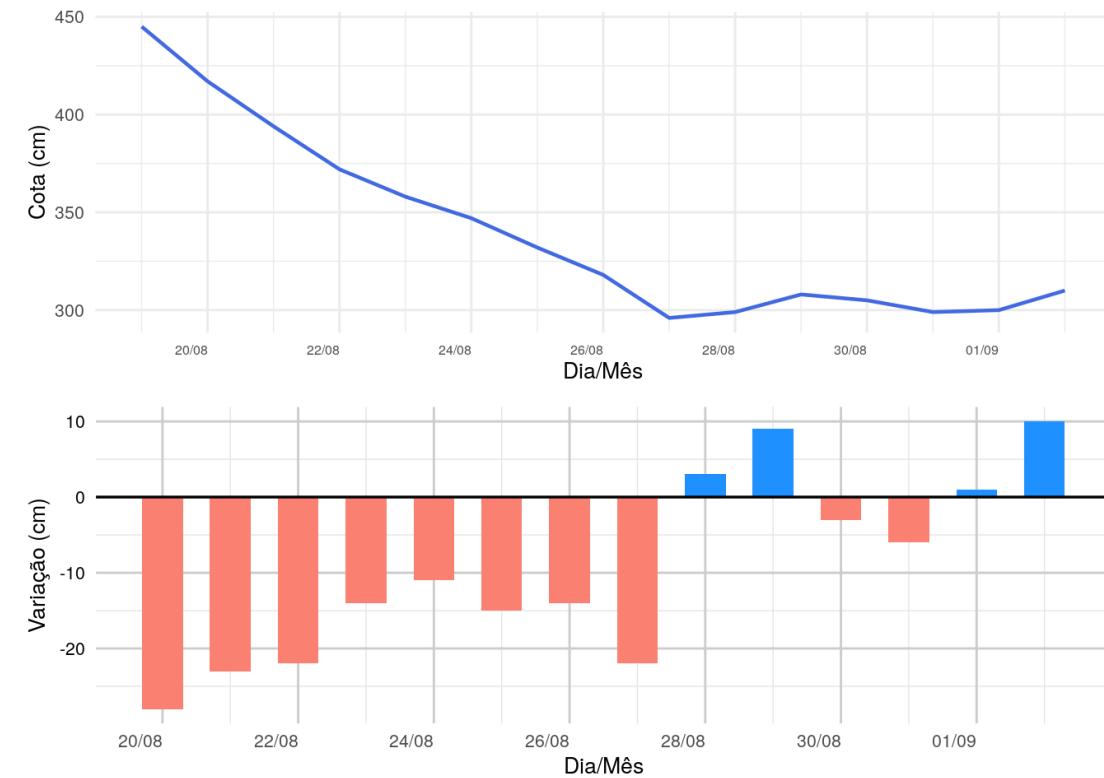
Variação das cotas nos últimos 15 dias: -18 cm, em média -1,2 cm por dia.

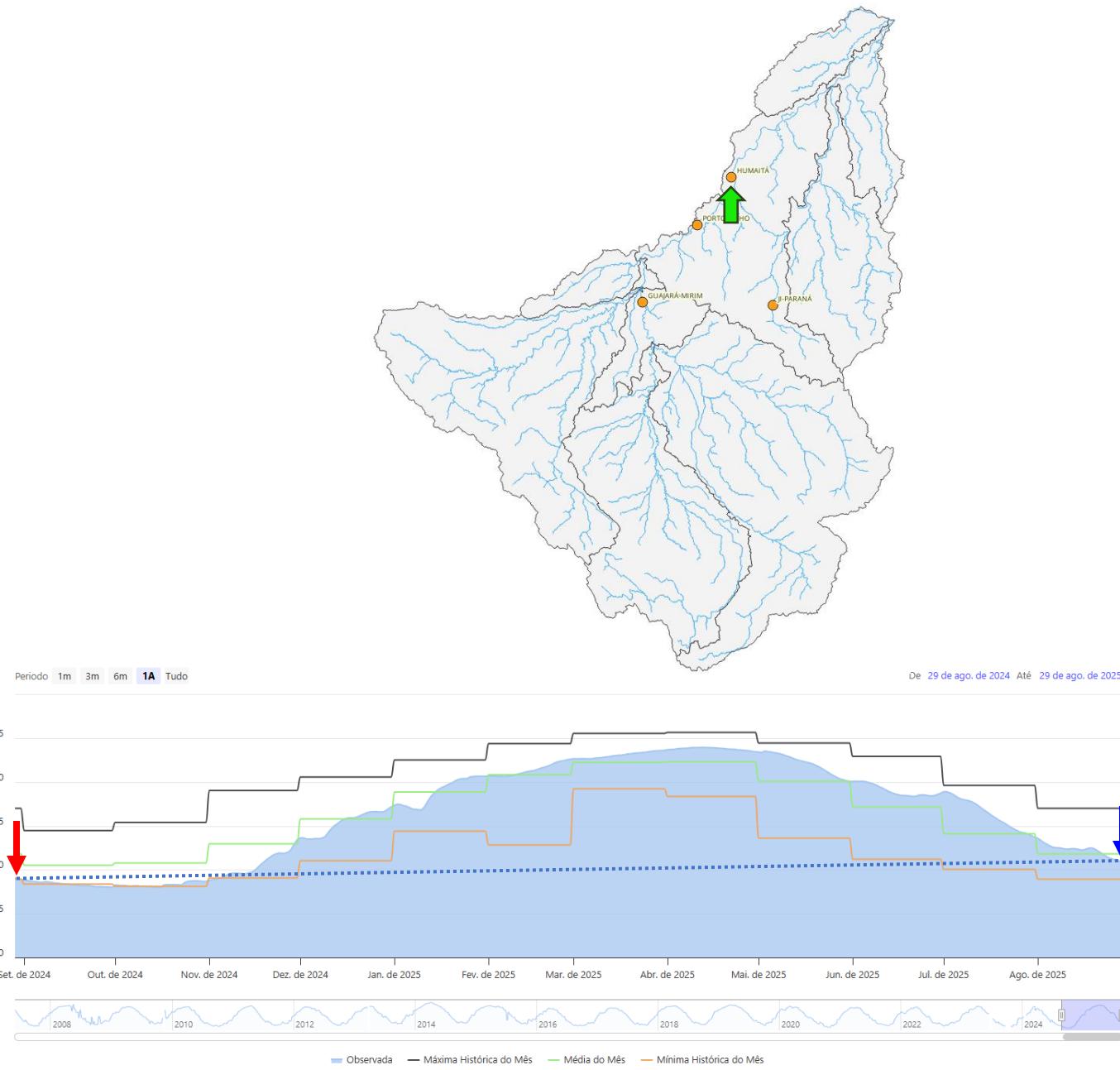




Rio Madeira – Estação de Porto Velho (RO)

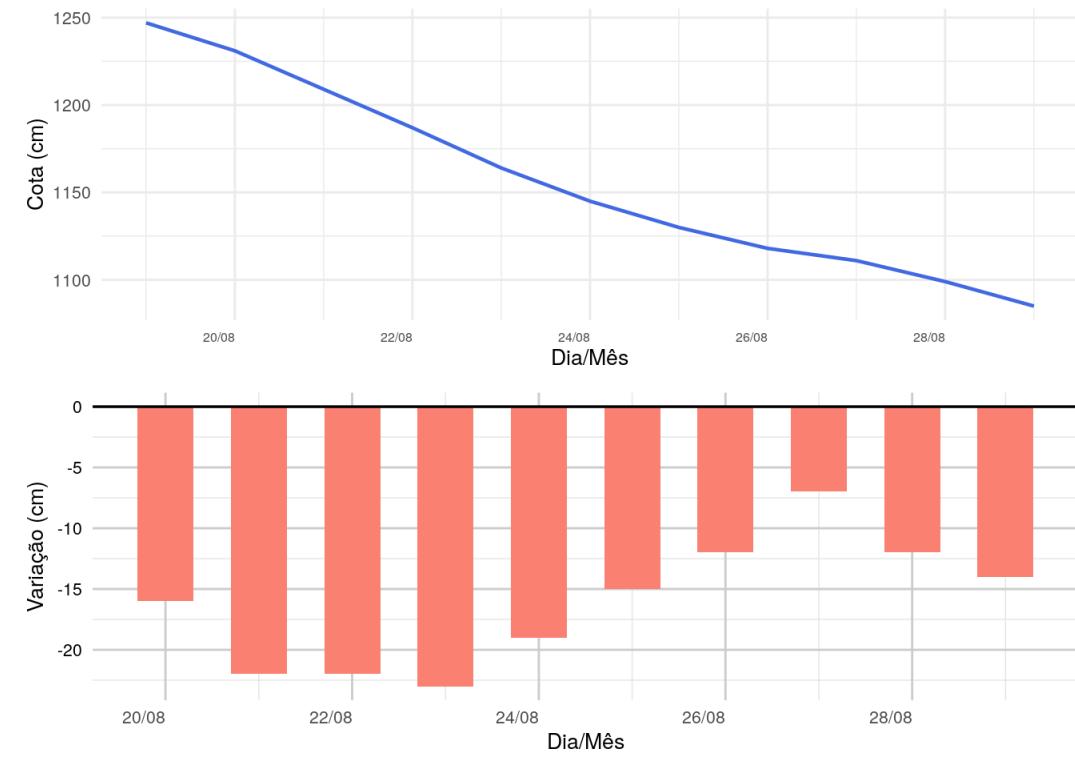
Variação das cotas nos últimos 15 dias: -135 cm, em média -9 cm por dia.

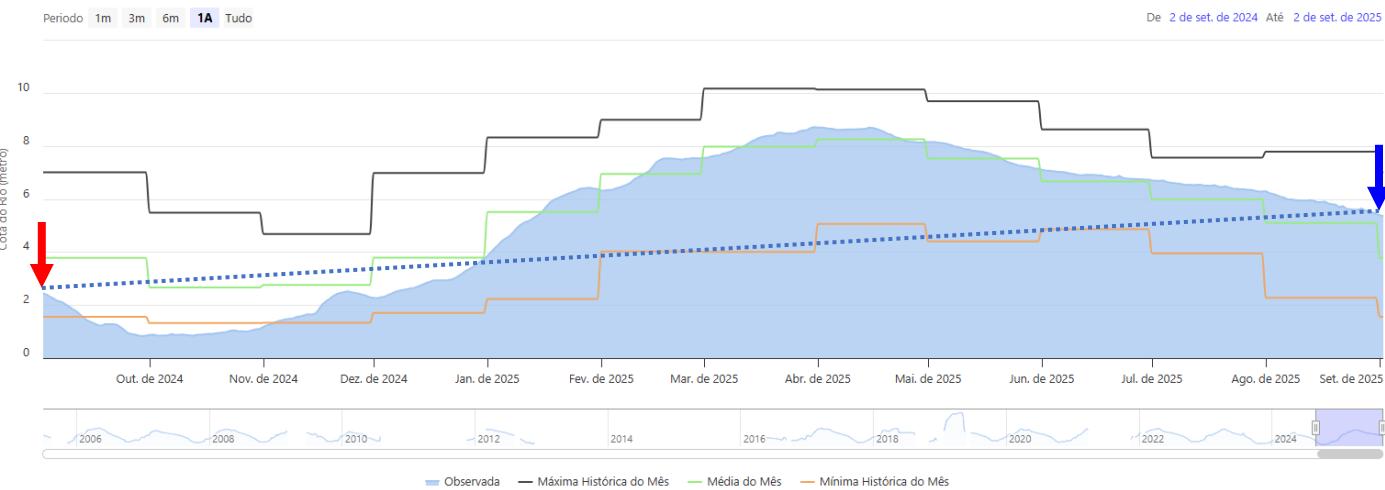




Rio Madeira – Estação de Humaitá (AM)

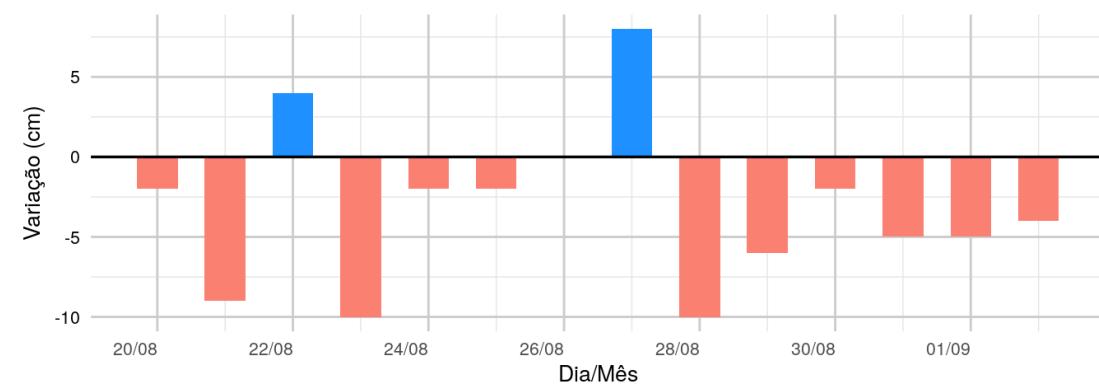
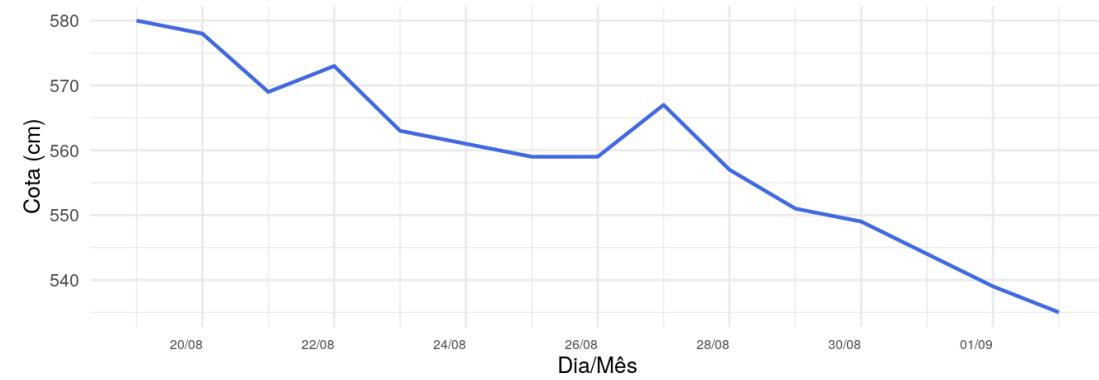
Variação das cotas nos últimos 15 dias: -162 cm, em média -10,8 cm por dia.





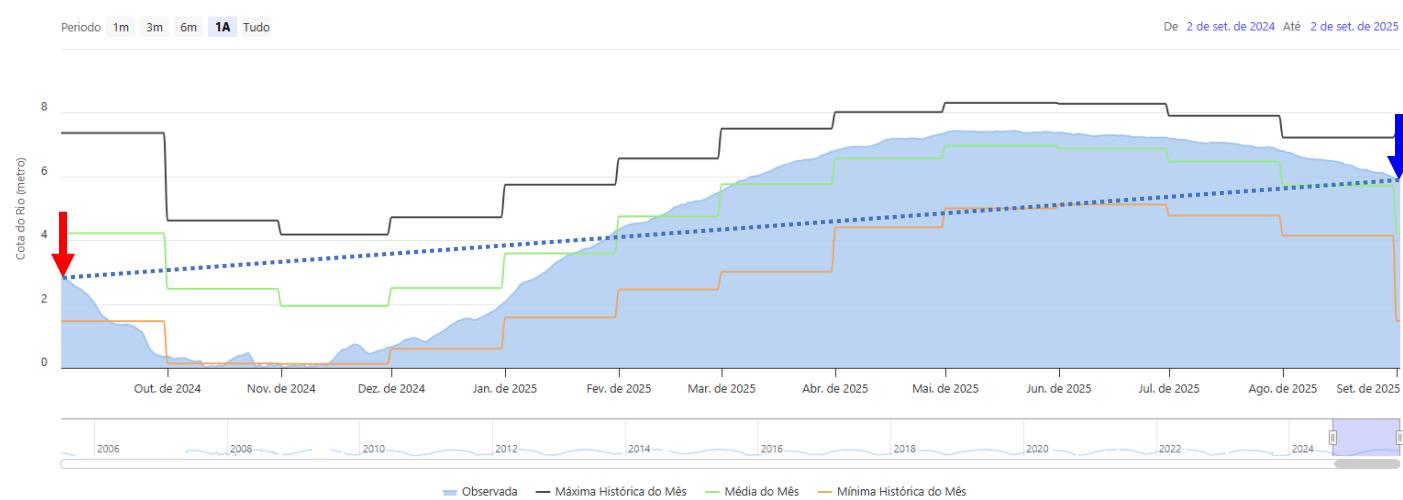
Rio Tapajós – Estação de Itaituba (PA)

Variação das cotas nos últimos 15 dias: -45 cm, em média -3 cm por dia.



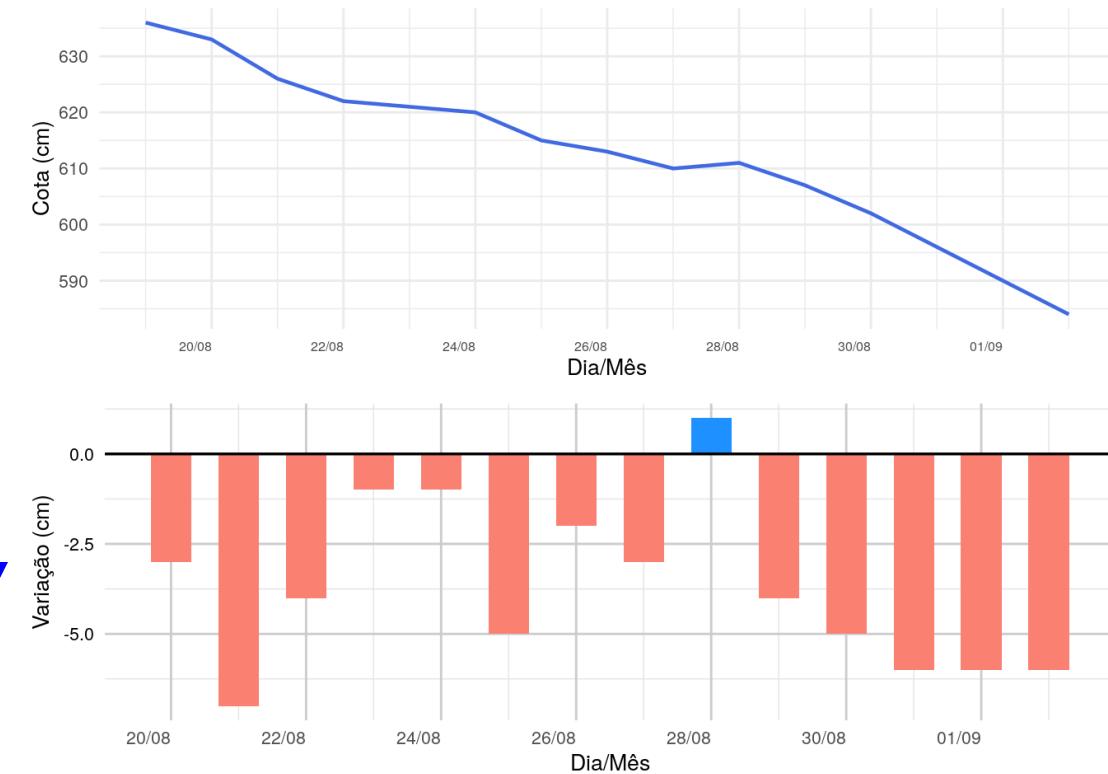


Estação de Santarém (17900000)

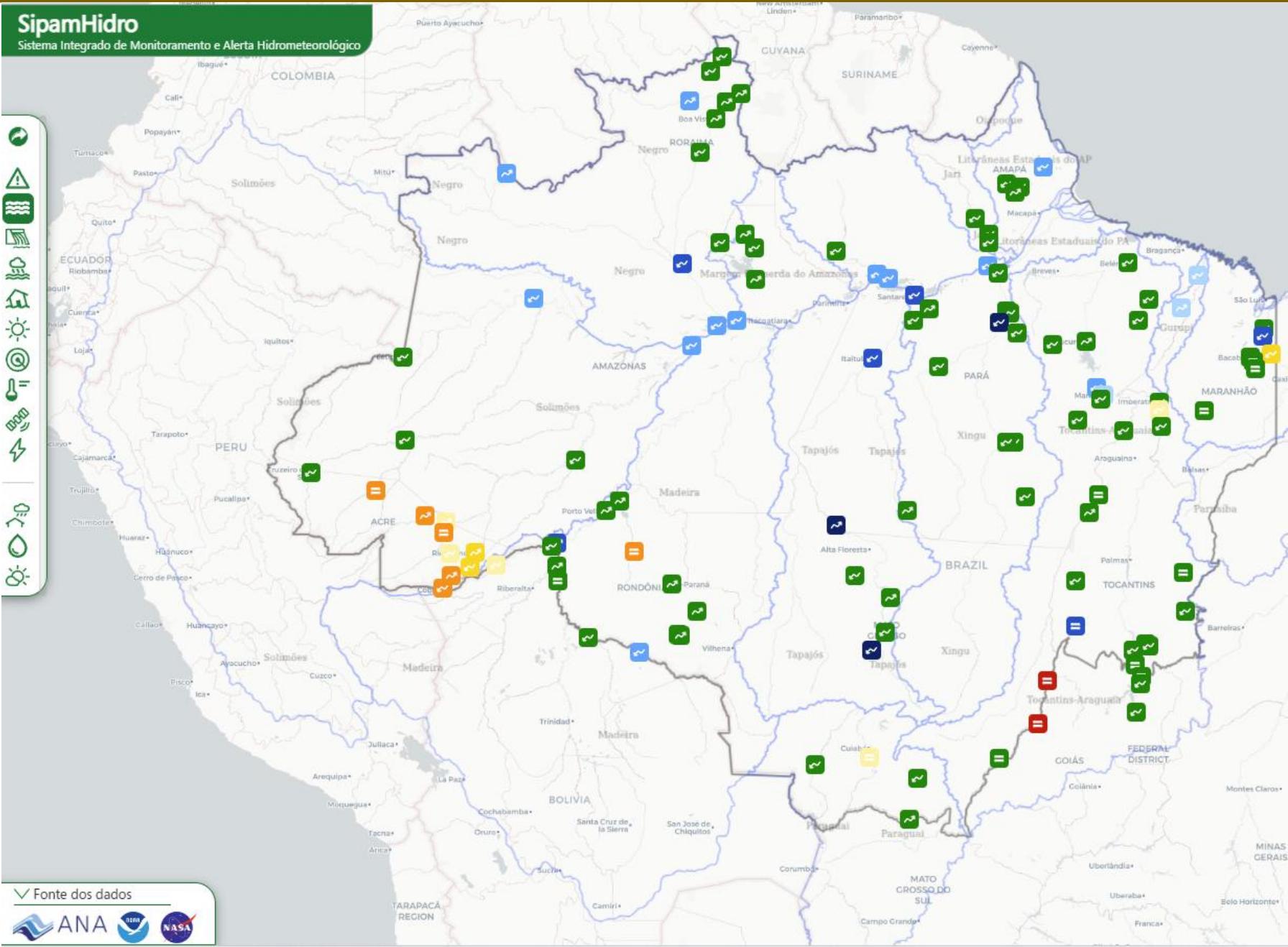


Rio Tapajós – Estação de Santarém (PA)

Variação das cotas nos últimos 15 dias: -52 cm, em média -3,47 cm por dia.



Monitoramento de Hidrológico – 02/09/2025



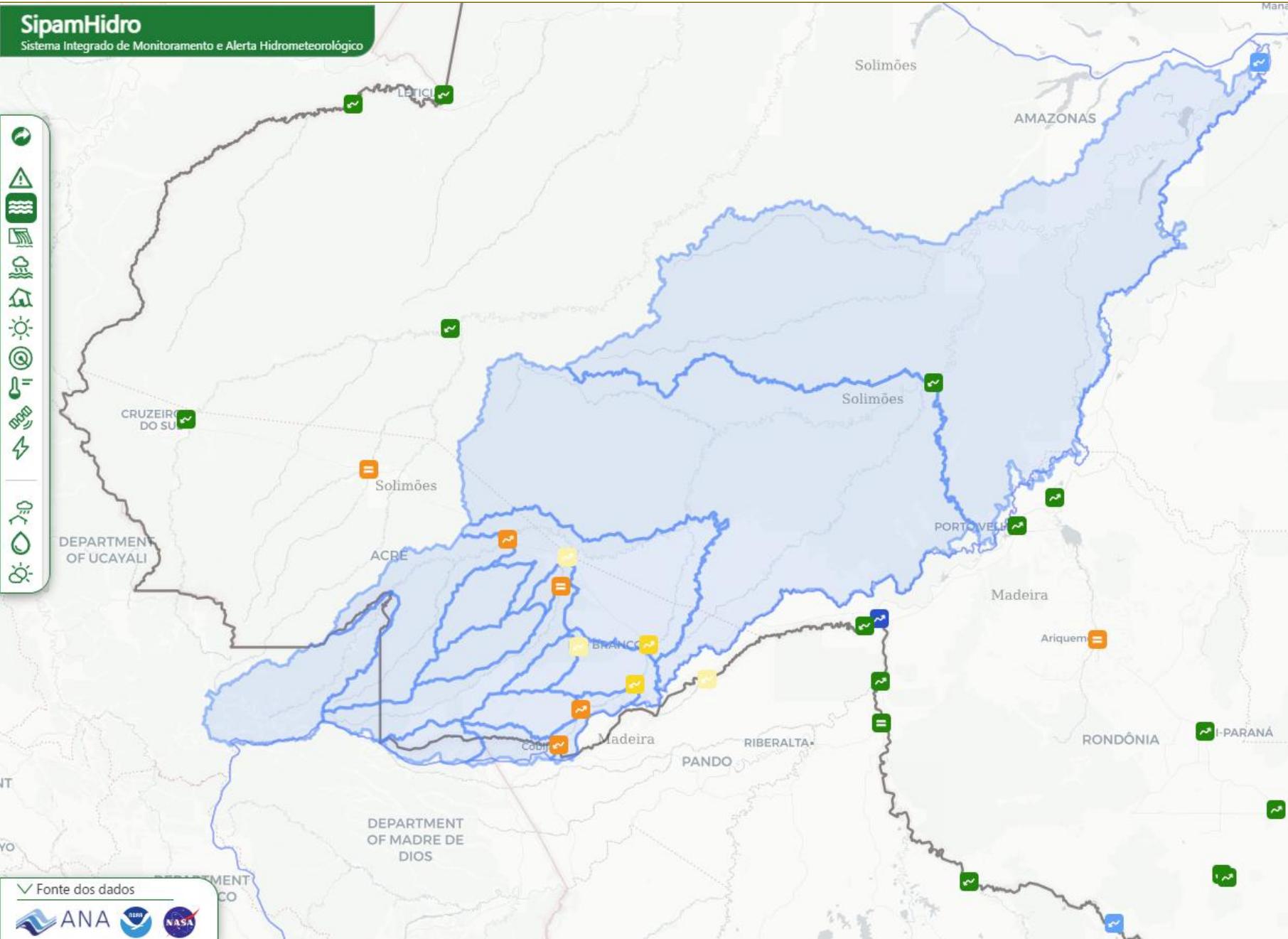
Monitoramento de Hidrológico – Bacia do rio Purus 02/09/2025

SipamHidro

Sistema Integrado de Monitoramento e Alerta Hidrometeorológico



Fonte dos dados



Anomalias (-)

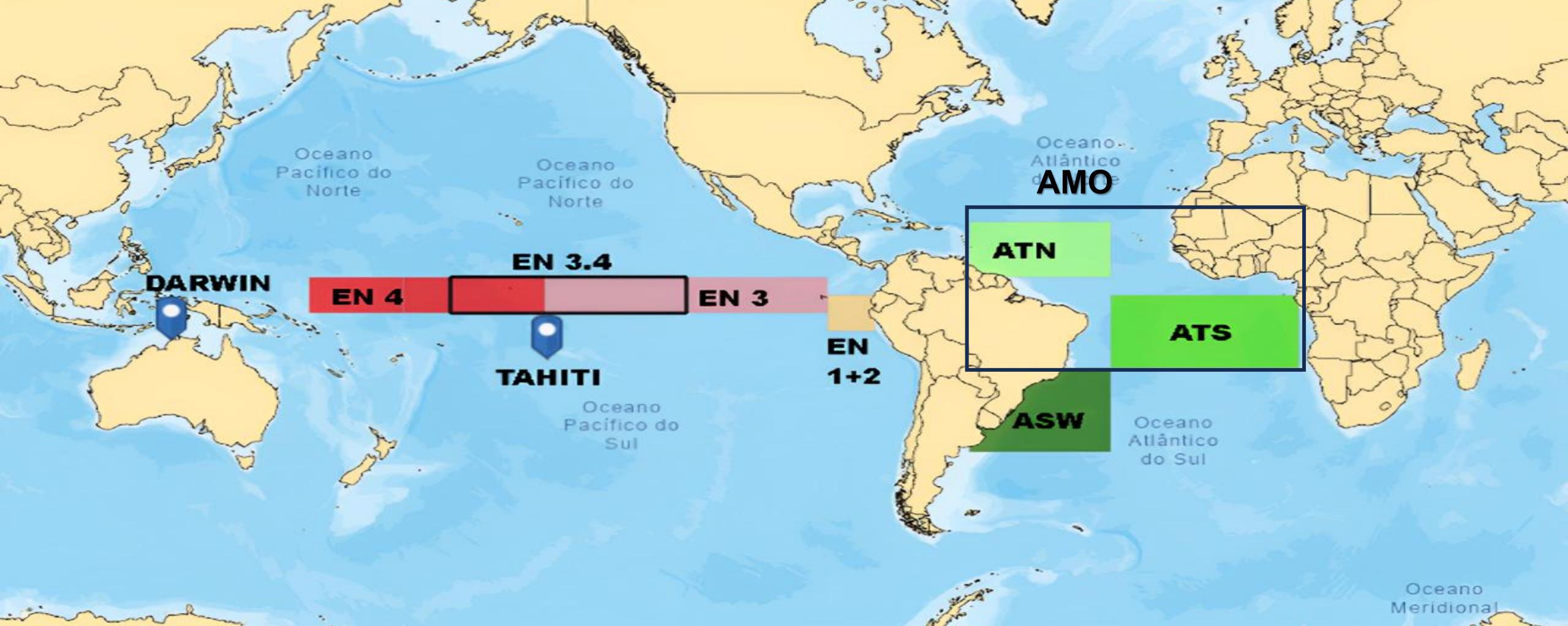
Extrema Severa Moderada Leve Normal

Anomalias (+)

Leve Moderada Severa Extrema

An aerial photograph showing a severe flooding event. A large body of water has inundated a residential area, completely submerging numerous houses. The water level is very high, reaching up to the upper stories of many buildings. In the foreground, several houses with blue roofs are visible, their lower levels submerged. The surrounding land appears dry, contrasting sharply with the flooded area.

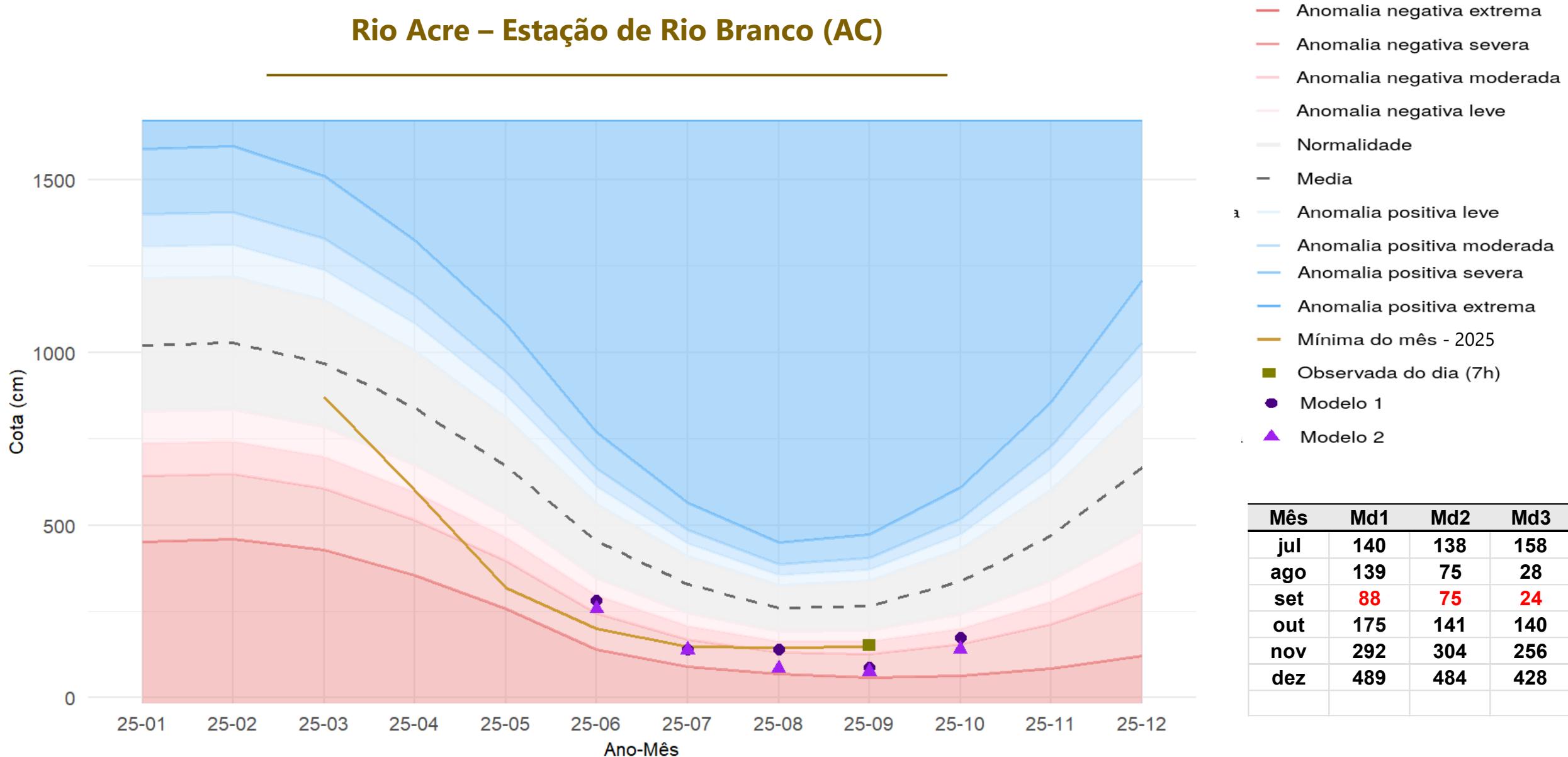
Prognóstico Hidrológico de Vazante



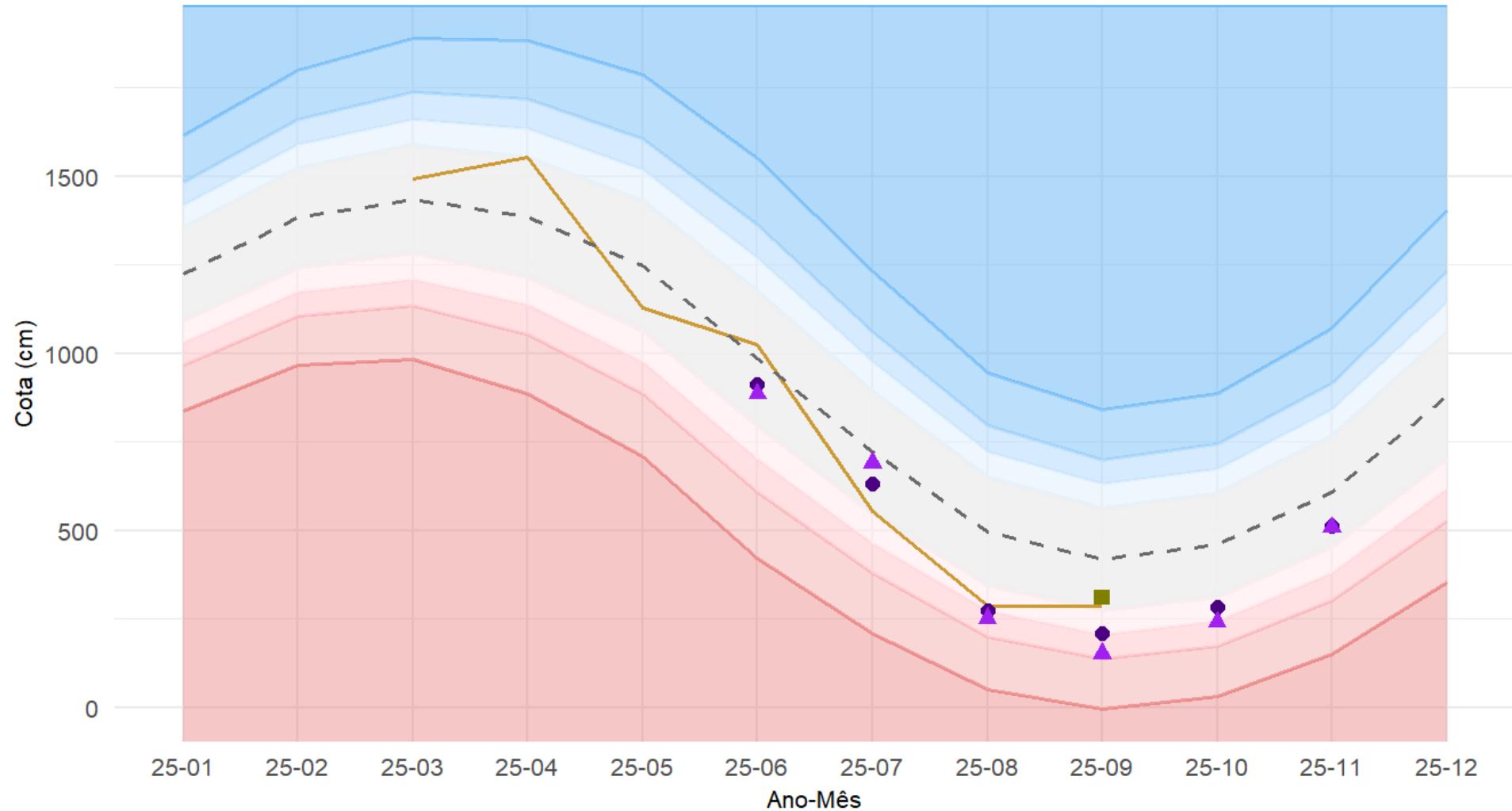
- Dados médios mensais da TSM (NCEP/NCAR): Oceano Pacífico, Oceano Atlântico Norte e Sul.
- Pressão atmosférica em Darwin e Tahiti.

BH Rio Solimões

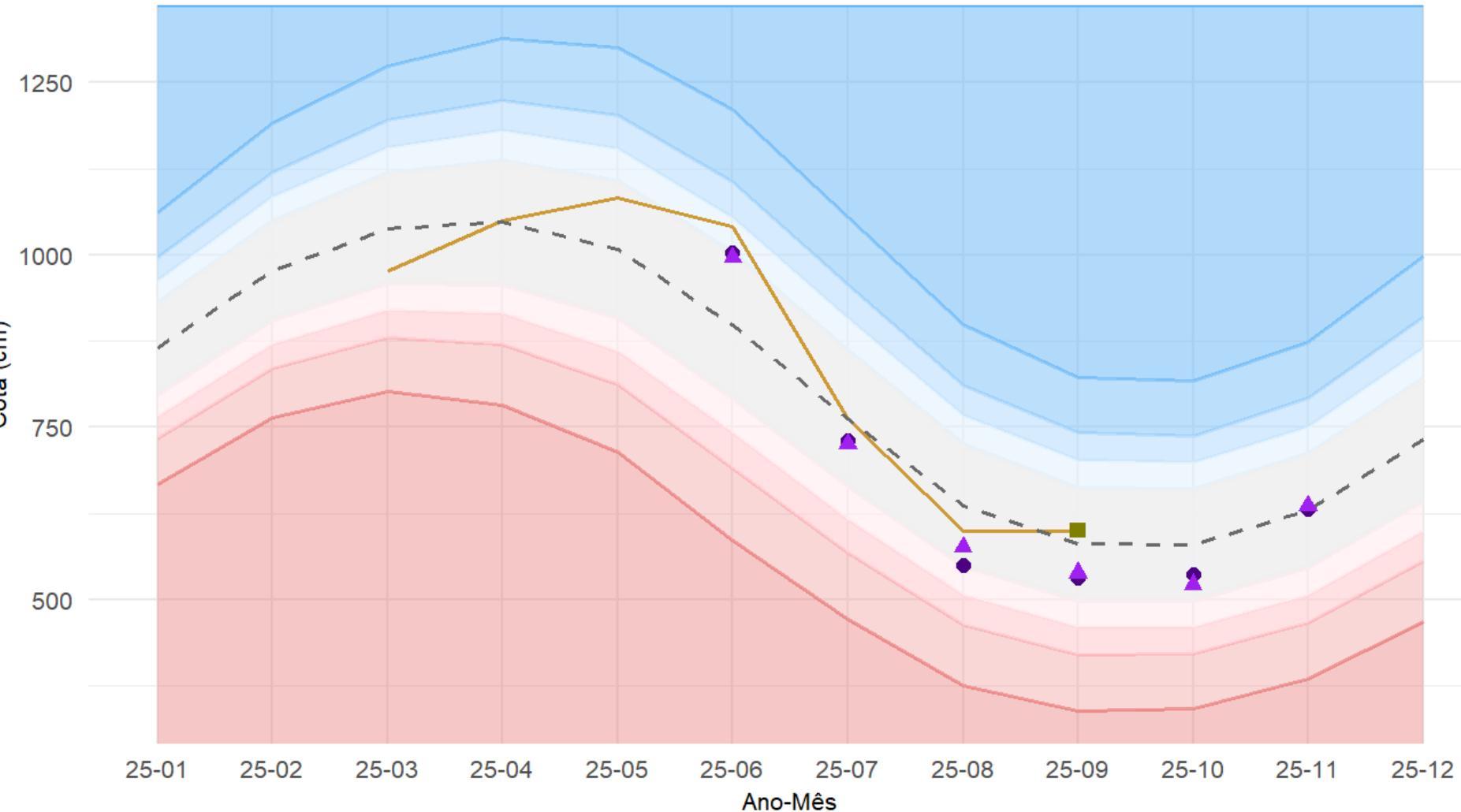
Rio Acre – Estação de Rio Branco (AC)



Rio Madeira – Estação de Porto Velho (RO)

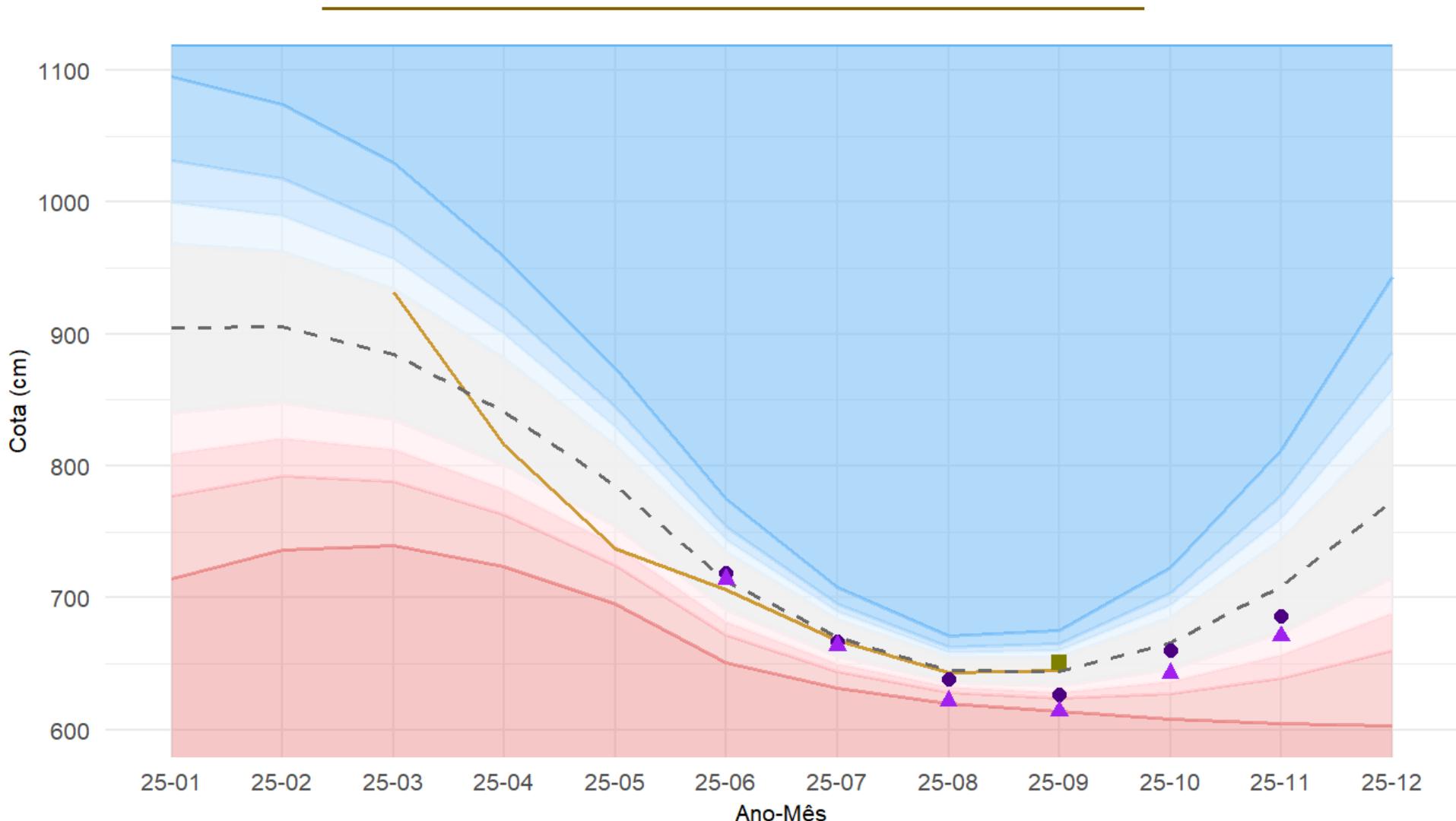


Rio Mamoré – Estação de Guajará-Mirim (RO)



- Anomalia negativa extrema
- Anomalia negativa severa
- Anomalia negativa moderada
- Anomalia negativa leve
- Normalidade
- Media
- Anomalia positiva leve
- Anomalia positiva moderada
- Anomalia positiva severa
- Anomalia positiva extrema
- Mínima do mês - 2025
- Observada do dia (7h)
- Modelo 1
- ▲ Modelo 2

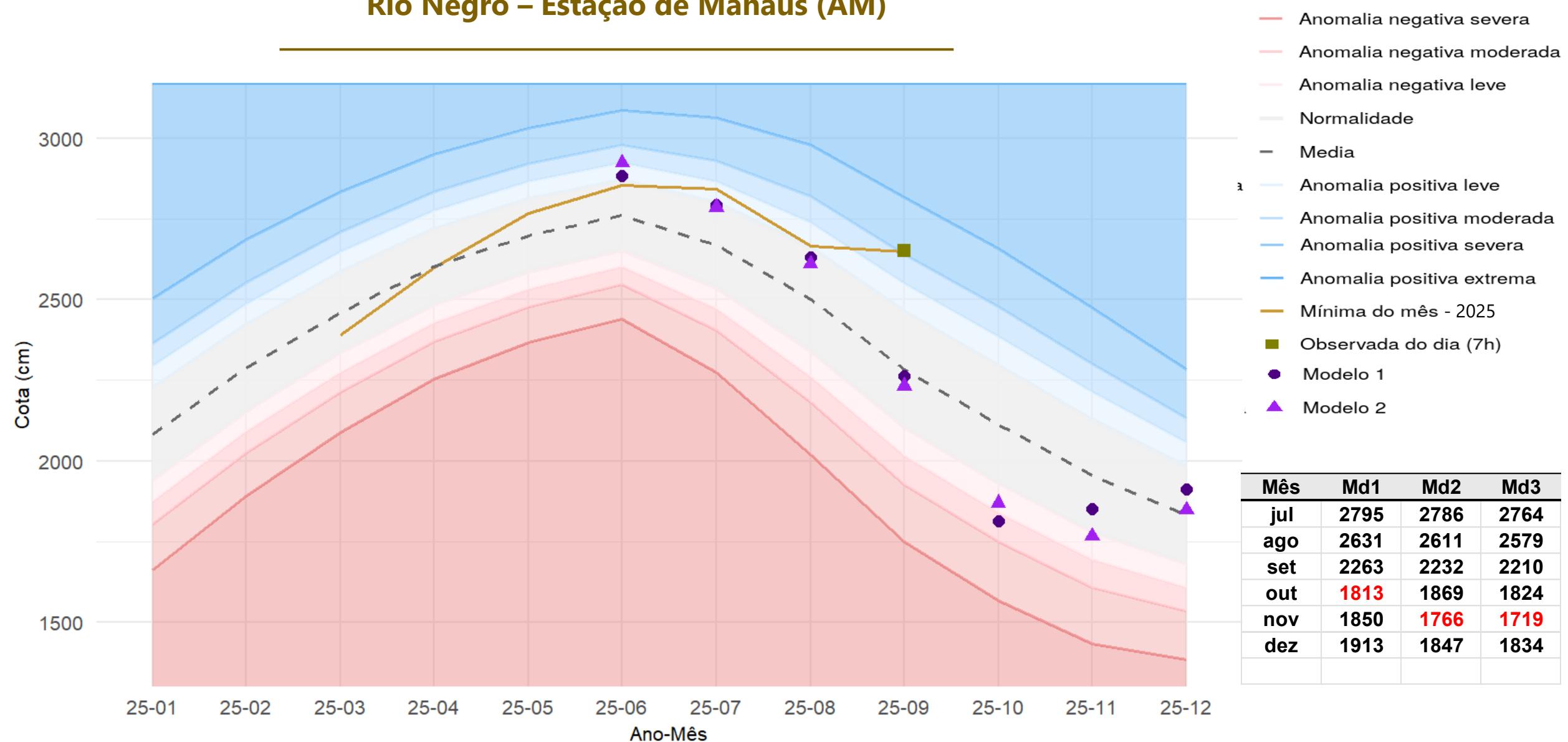
Rio Jiparaná – Estação de Ji-Paraná (RO)



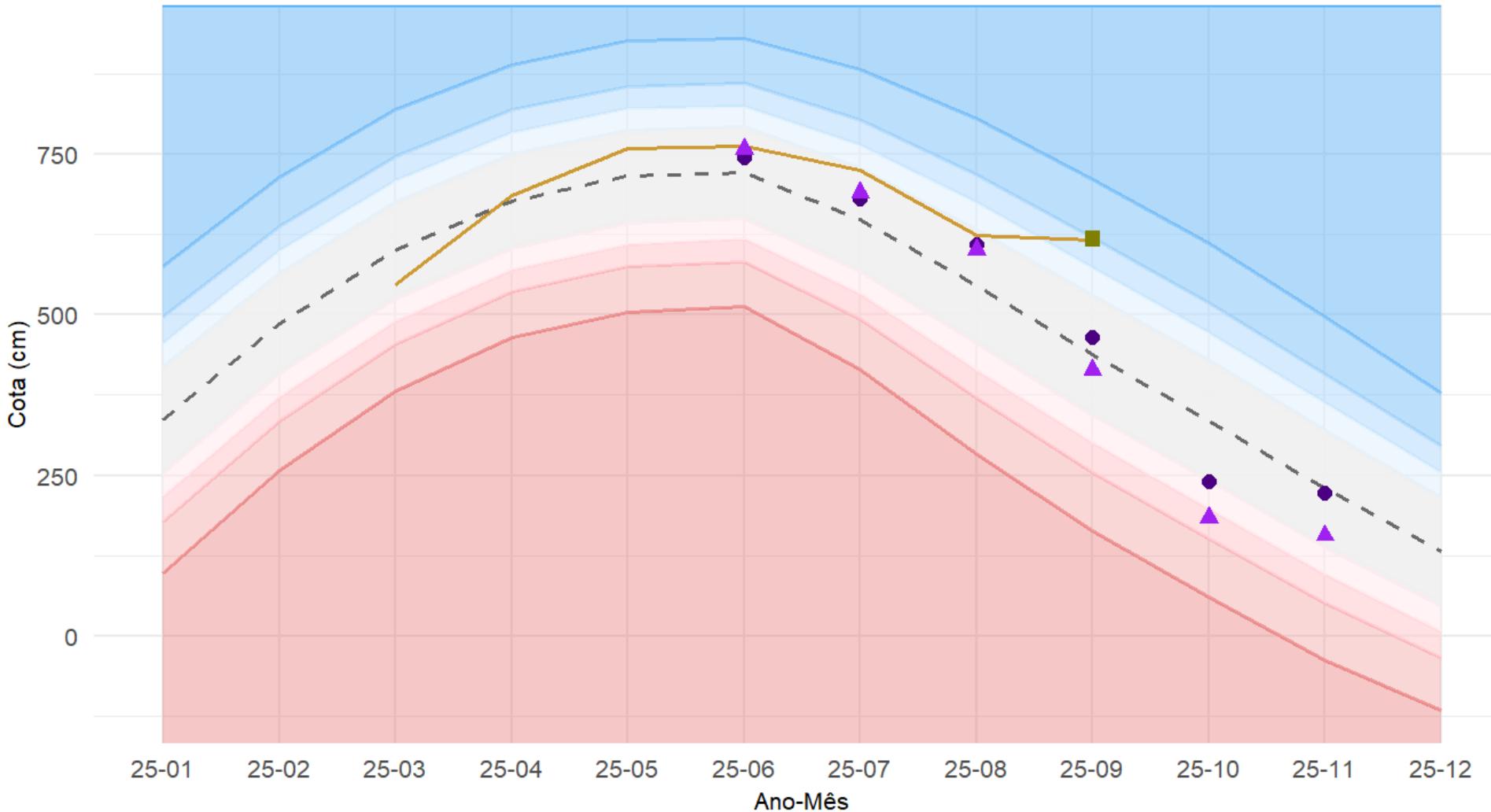
- Anomalia negativa extrema
- Anomalia negativa severa
- Anomalia negativa moderada
- Anomalia negativa leve
- Normalidade
- Media
- Anomalia positiva leve
- Anomalia positiva moderada
- Anomalia positiva severa
- Anomalia positiva extrema
- Mínima do mês - 2025
- Observada do dia (7h)
- Modelo 1
- ▲ Modelo 2

Mês	Md1	Md2	Md3
jul	667	664	673
ago	638	622	625
set	627	614	610
out	660	643	639
nov	666	671	679

Rio Negro – Estação de Manaus (AM)



Rio Amazonas – Estação de Óbidos (PA)

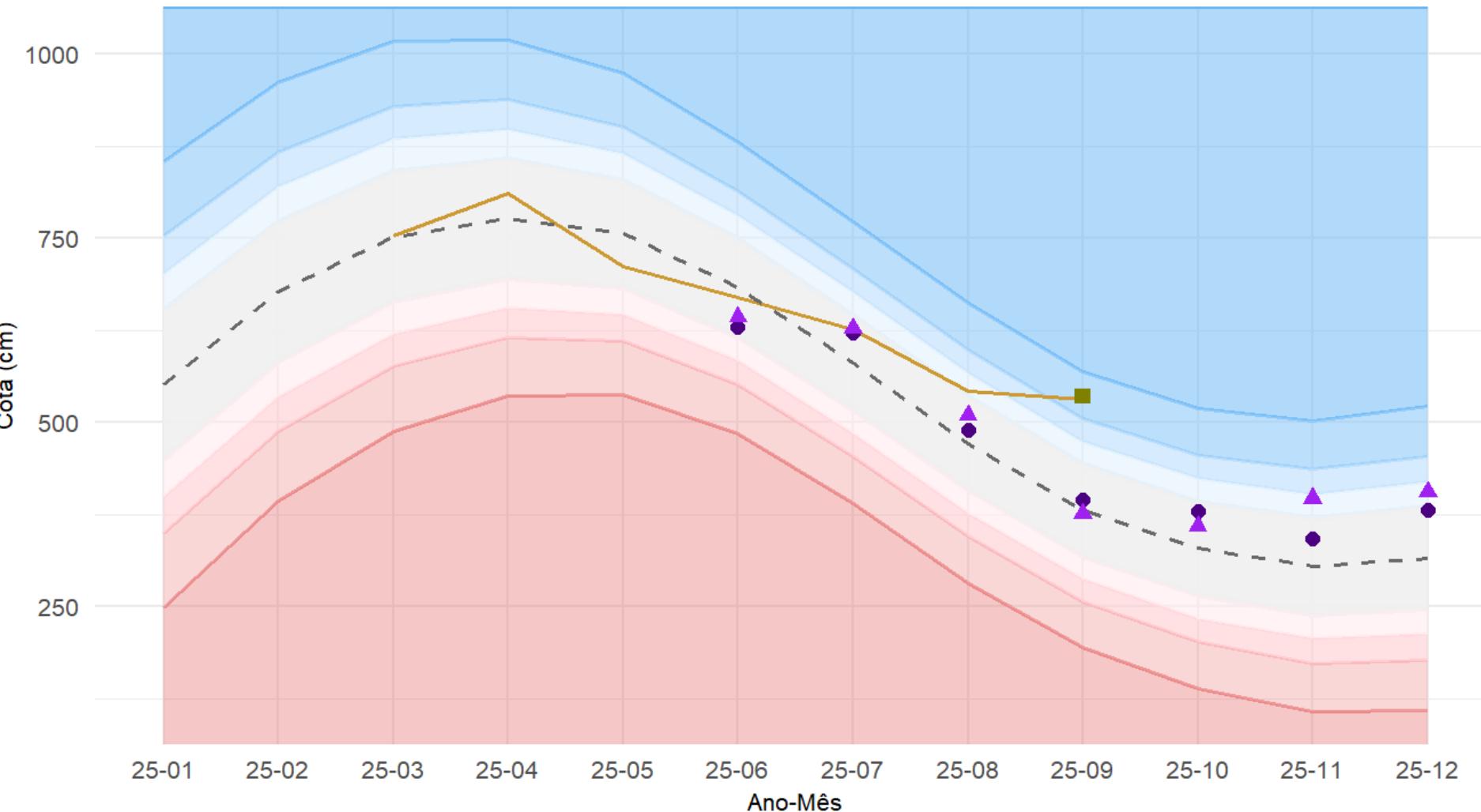


- Anomalia negativa extrema
- Anomalia negativa severa
- Anomalia negativa moderada
- Anomalia negativa leve
- Normalidade
- Media
- Anomalia positiva leve
- Anomalia positiva moderada
- Anomalia positiva severa
- Anomalia positiva extrema
- Mínima do mês - 2025
- Observada do dia (7h)
- Modelo 1
- ▲ Modelo 2

Mês	Md1	Md2	Md3
jun	745	758	
jul	719	711	
ago	509	501	
set	465	414	
out	240	184	
nov	223	156	
dez			

BH Rio Tapajós

Rio Tapajós – Estação de Itaituba (PA)

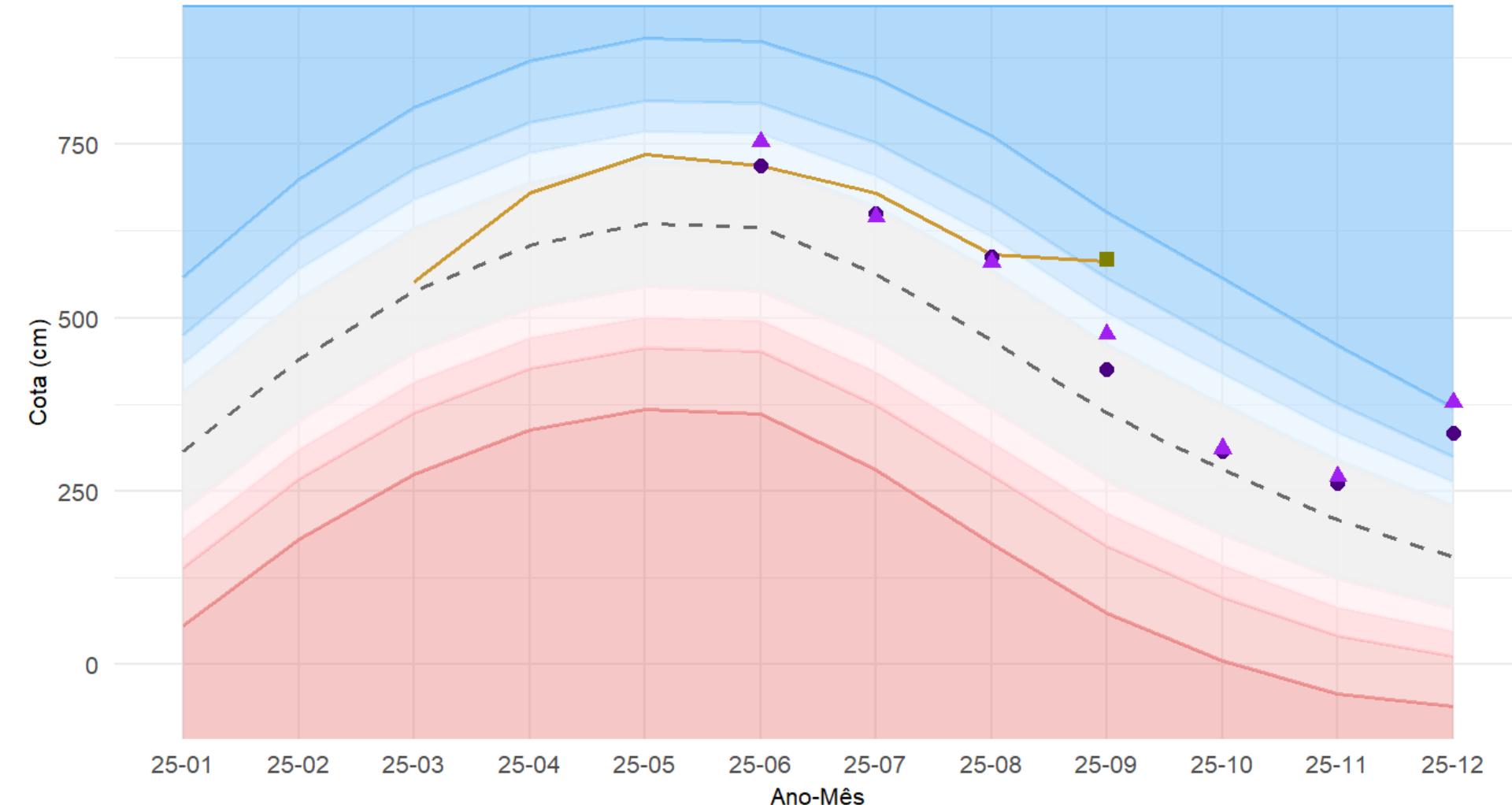


- Anomalia negativa extrema
- Anomalia negativa severa
- Anomalia negativa moderada
- Anomalia negativa leve
- Normalidade
- Media
- Anomalia positiva leve
- Anomalia positiva moderada
- Anomalia positiva severa
- Anomalia positiva extrema
- Mínima do mês - 2025
- Observada do dia (7h)
- Modelo 1
- ▲ Modelo 2

Mês	Md1	Md2	Md3
jul	622	628	643
ago	490	493	510
set	395	308	376
out	379	352	339
nov	342	334	397
dez	381	311	406

BH Rio Tapajós

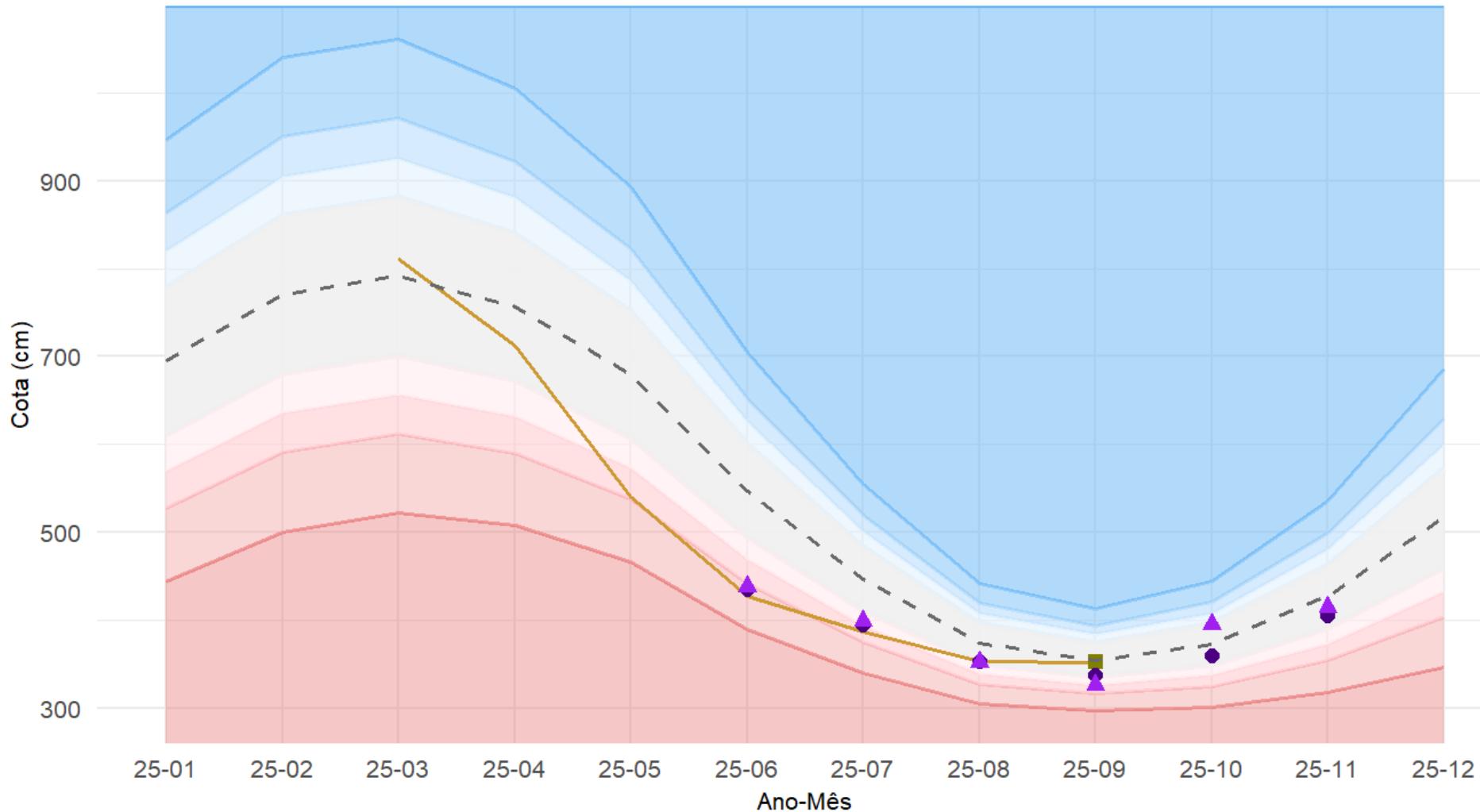
Rio Tapajós – Estação de Santarém (PA)



Mês	Md1	Md2	Md3
jul	651	645	620
ago	588	580	576
set	426	476	425
out	307	311	259
nov	261	271	192
dez	334	378	289

BH Rio Xingu

Rio Xingu – Estação de Boa Sorte (PA)

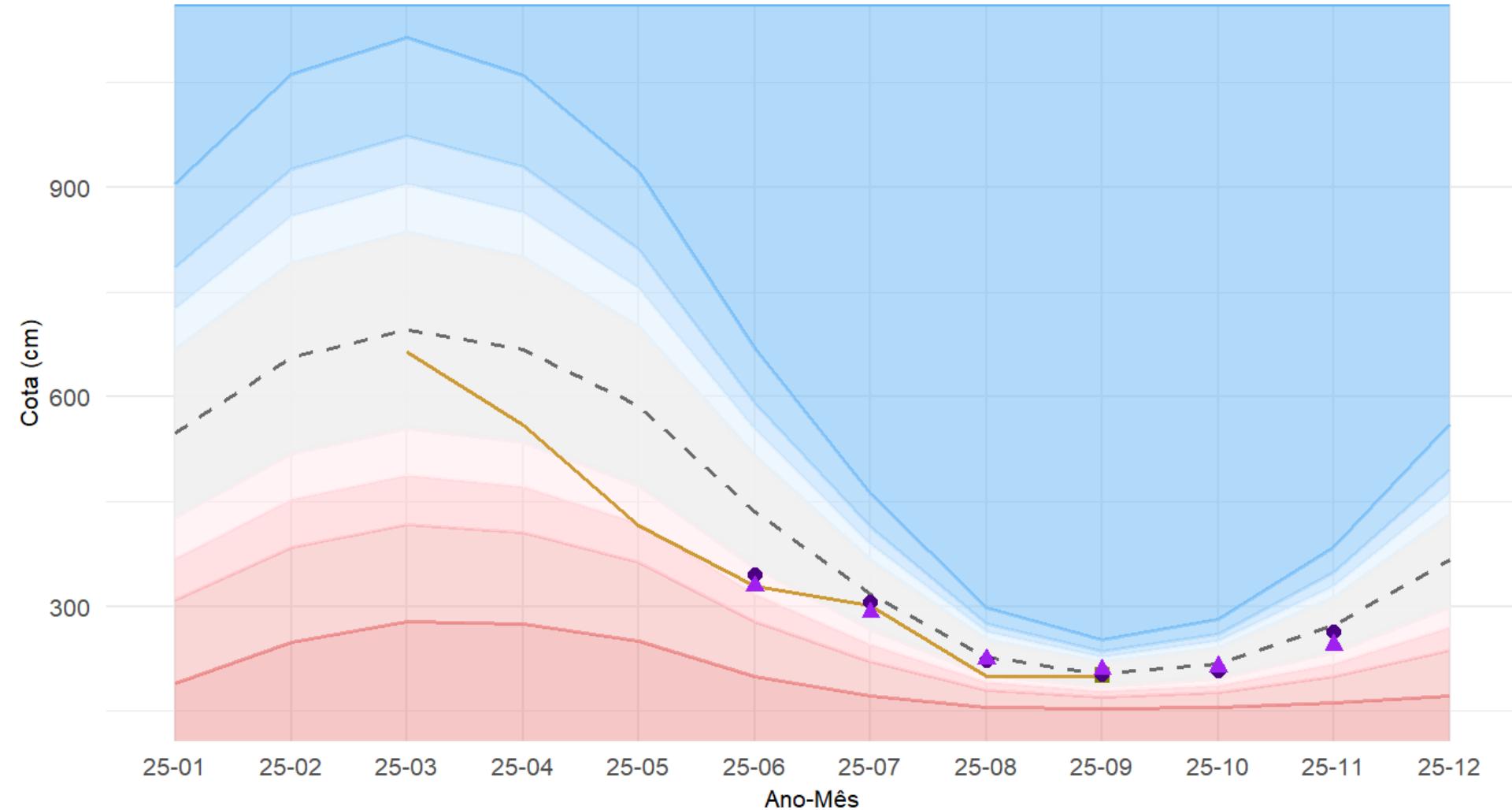


- Anomalia negativa extrema
- Anomalia negativa severa
- Anomalia negativa moderada
- Anomalia negativa leve
- Normalidade
- Media
- Anomalia positiva leve
- Anomalia positiva moderada
- Anomalia positiva severa
- Anomalia positiva extrema
- Mínima do mês - 2025
- Observada do dia (7h)
- Modelo 1
- ▲ Modelo 2

Mês	Md1	Md2	Md3
jul	395	399	389
ago	353	352	336
set	337	326	310
out	360	396	376
nov	405	415	411
dez			

BH Rio Tocantins

Rio Araguaia – Estação de Conceição do Araguaia (PA)

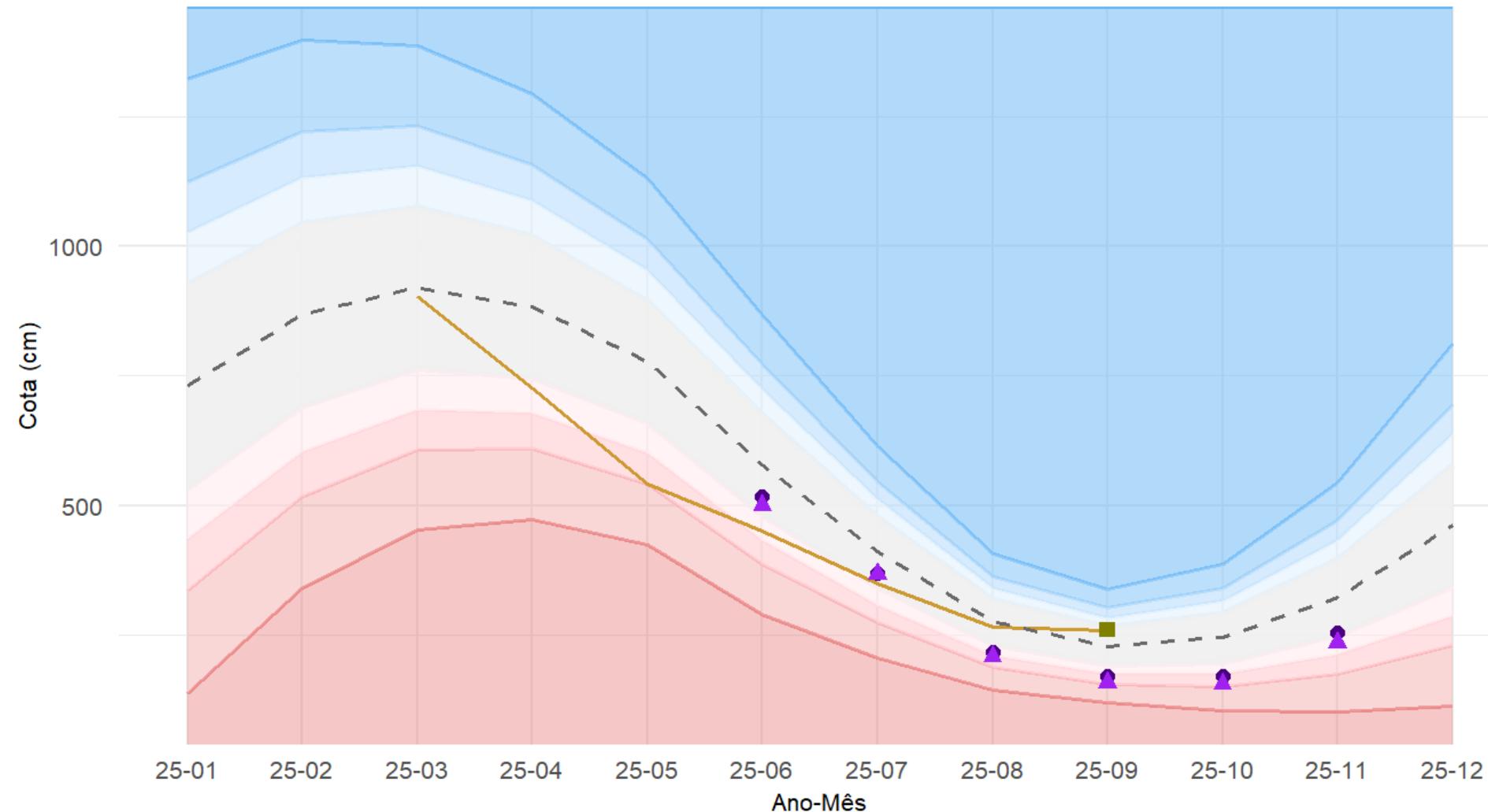


- Anomalia negativa extrema
- Anomalia negativa severa
- Anomalia negativa moderada
- Anomalia negativa leve
- Normalidade
- Media
- Anomalia positiva leve
- Anomalia positiva moderada
- Anomalia positiva severa
- Anomalia positiva extrema
- Mínima do mês - 2025
- Observada do dia (7h)
- Modelo 1
- ▲ Modelo 2

Mês	Md1	Md2	Md3
jul	306	291	279
ago	223	224	223
set	202	209	200
out	208	213	210
nov	264	244	240

BH Rio Tocantins

Rio Tocantins – Estação de Marabá (PA)



- Anomalia negativa extrema
- Anomalia negativa severa
- Anomalia negativa moderada
- Anomalia negativa leve
- Normalidade
- Media
- Anomalia positiva leve
- Anomalia positiva moderada
- Anomalia positiva severa
- Anomalia positiva extrema
- Mínima do mês - 2025
- Observada do dia (7h)
- Modelo 1
- ▲ Modelo 2



MINISTÉRIO DA
DEFESA

Secretaria - Geral



CENSIPAM
Centro Gestor e Operacional do
Sistema de Proteção da Amazônia

Obrigado!

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