

Tendências climáticas

OCEPAR

Luiz Renato Lazinski
Meteorologista

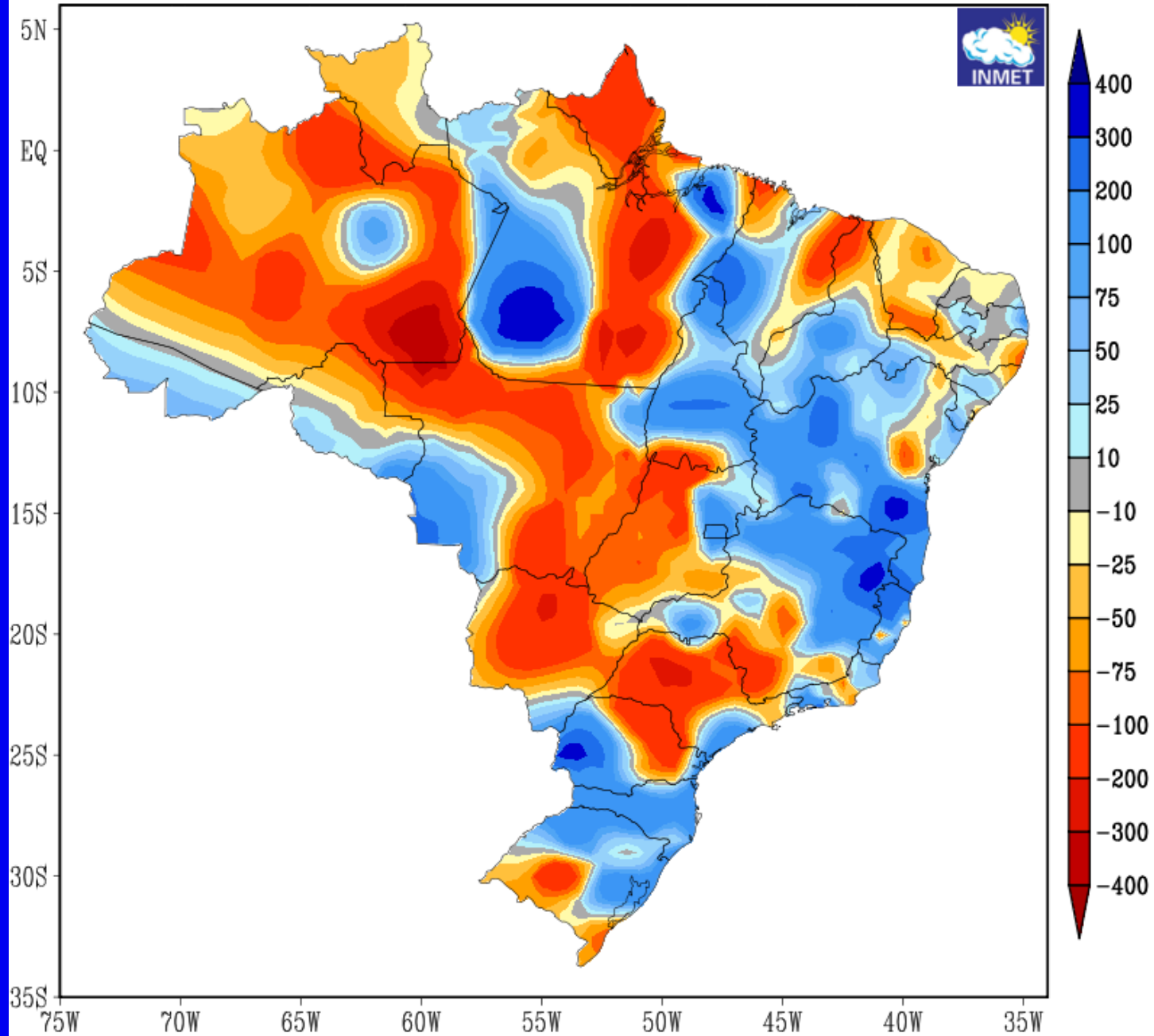
Agosto/2024

A bright sun is positioned in the upper left quadrant of the frame, casting a strong glow and creating a starburst effect. The sky is a deep, clear blue. Several large, fluffy white cumulus clouds are scattered across the lower half of the image, with some appearing to be illuminated from the side, giving them a soft, golden edge. The overall scene is bright and clear, suggesting a sunny day.

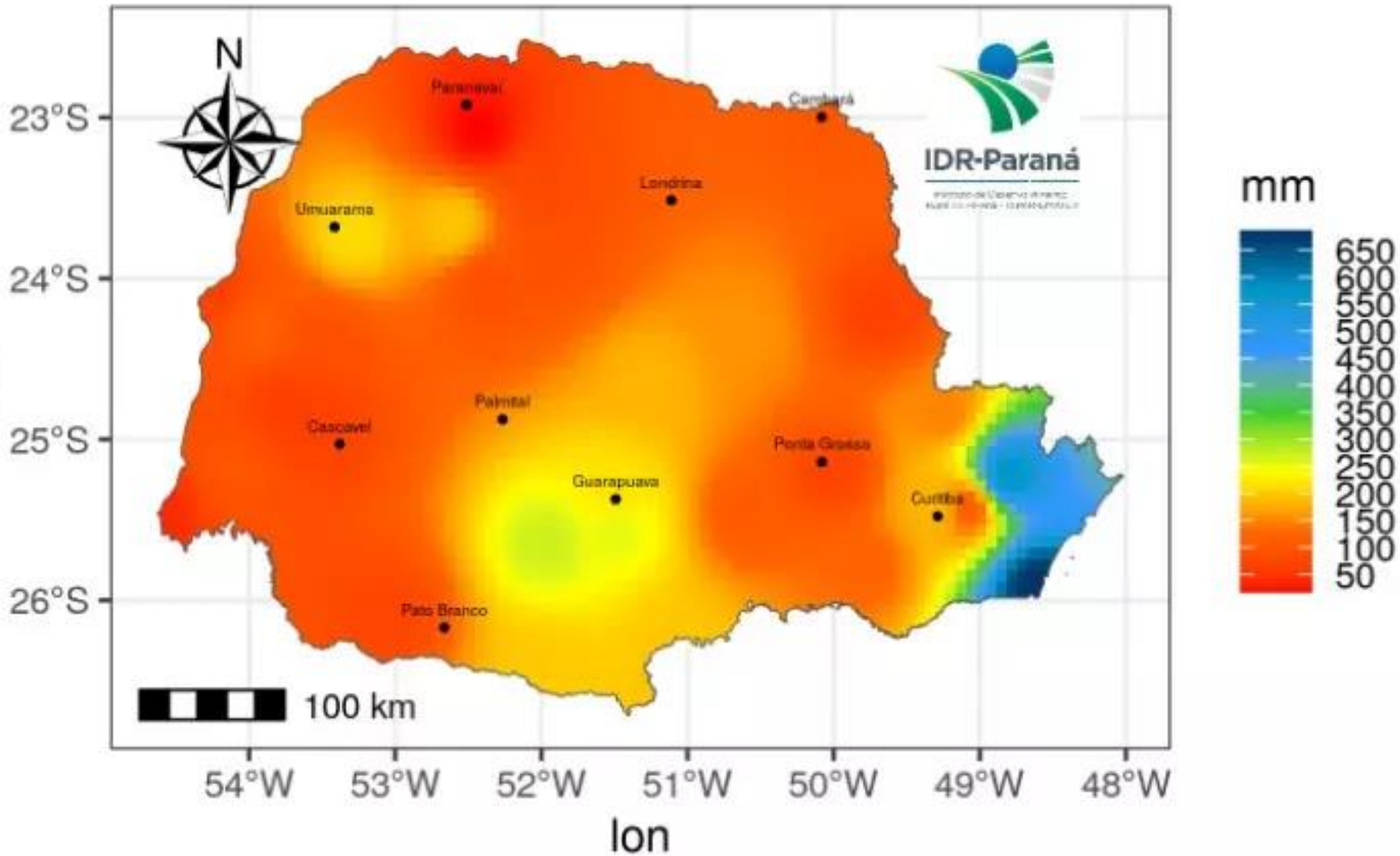
Precipitação

ANOMALIA DE PRECIPITACAO
VALIDO PARA JANEIRO DE 2024

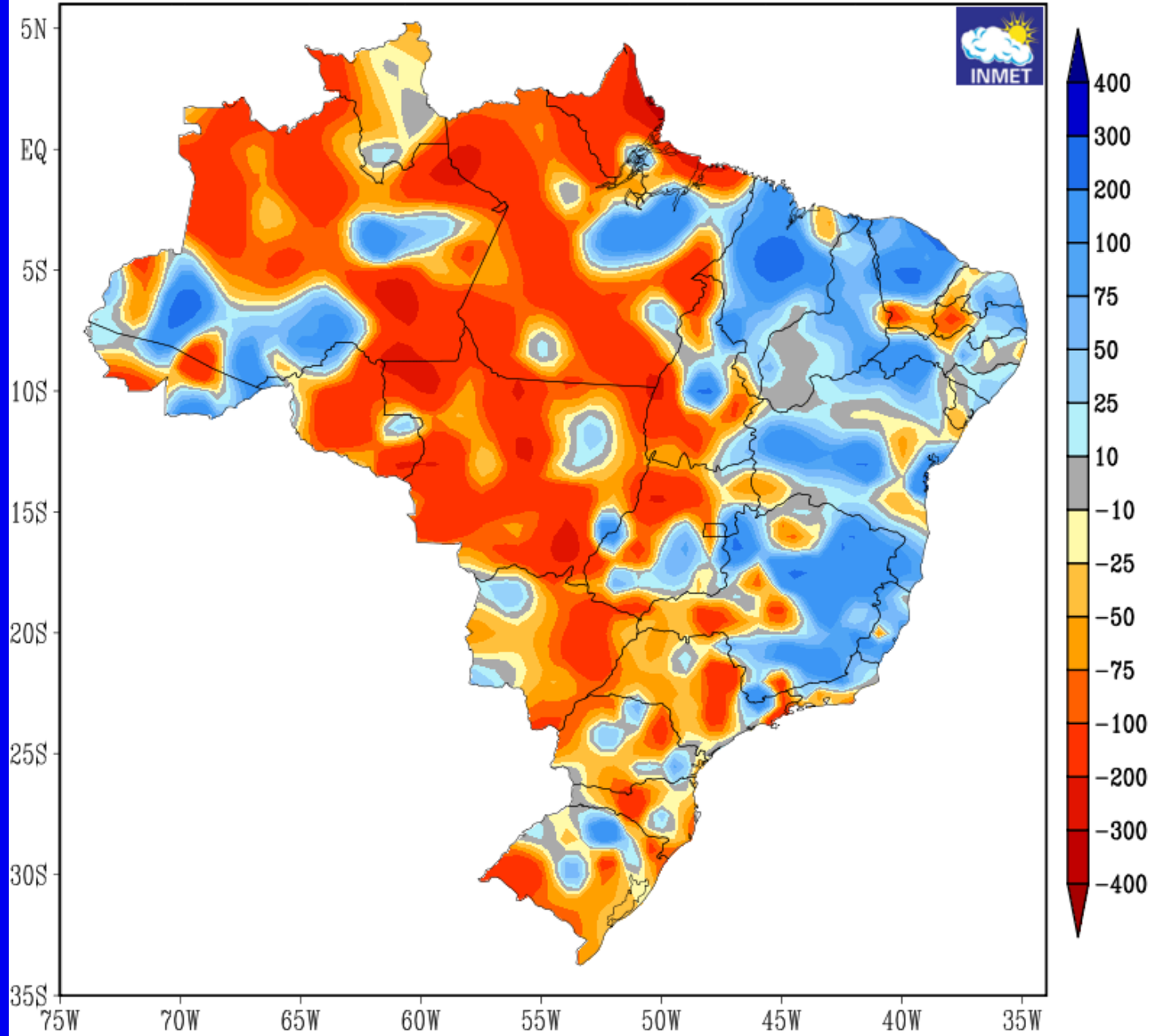
**Anomal.
Prec. Jan/24**



Precipitação janeiro / 2024

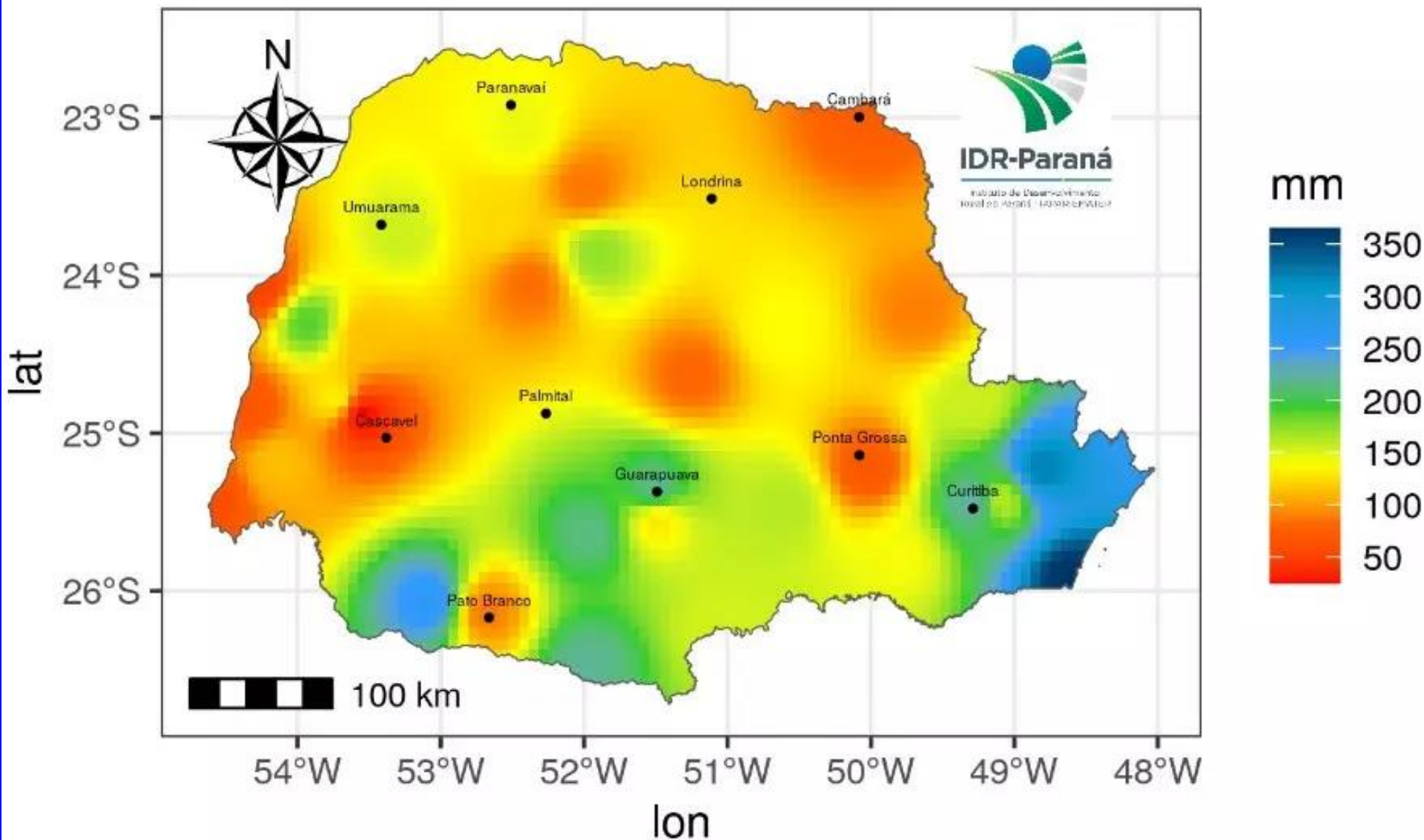


ANOMALIA DE PRECIPITAÇÃO
VALIDO PARA FEVEREIRO DE 2024



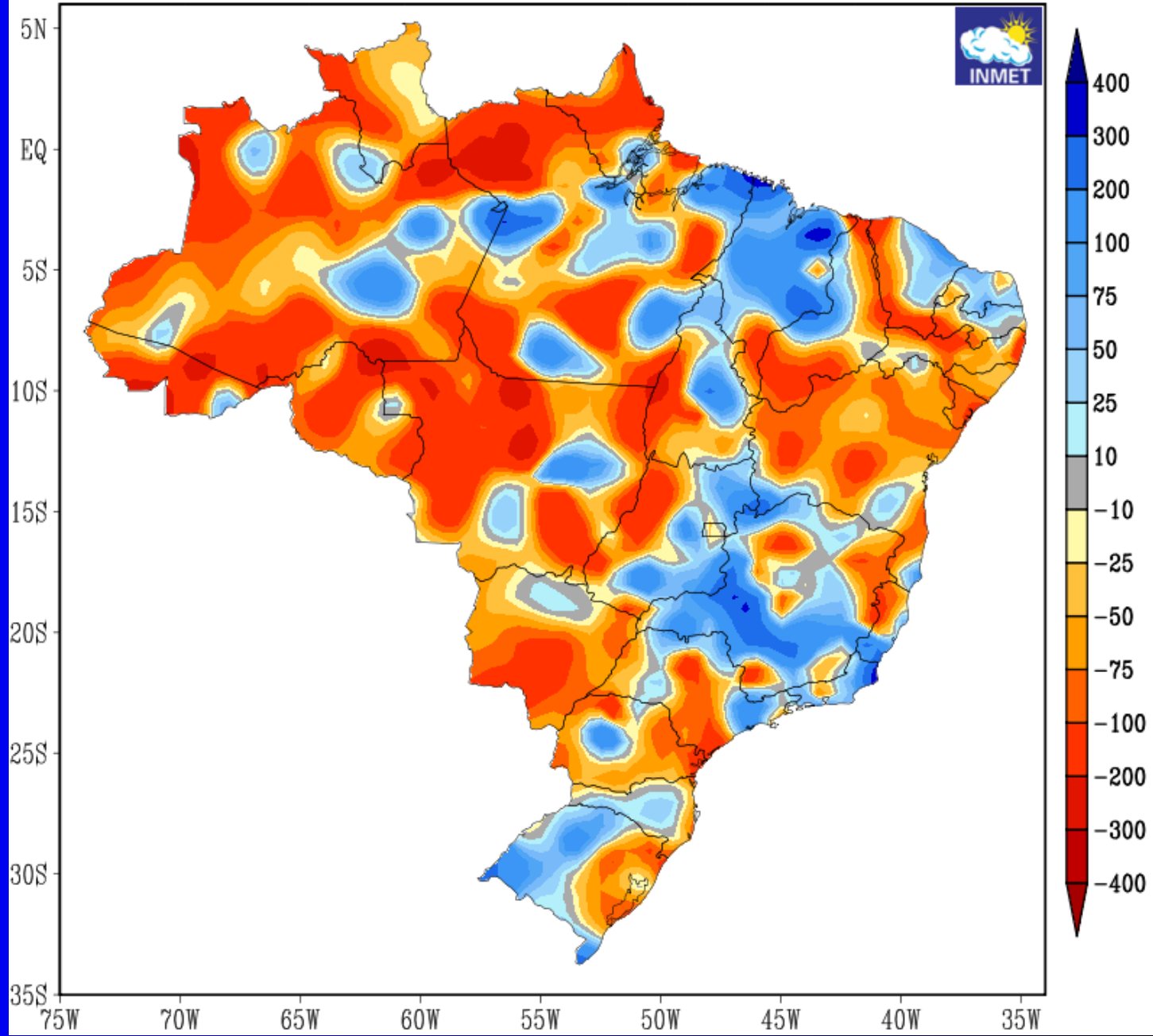
**Anomal.
Prec. fev/24**

Precipitação fevereiro / 2024

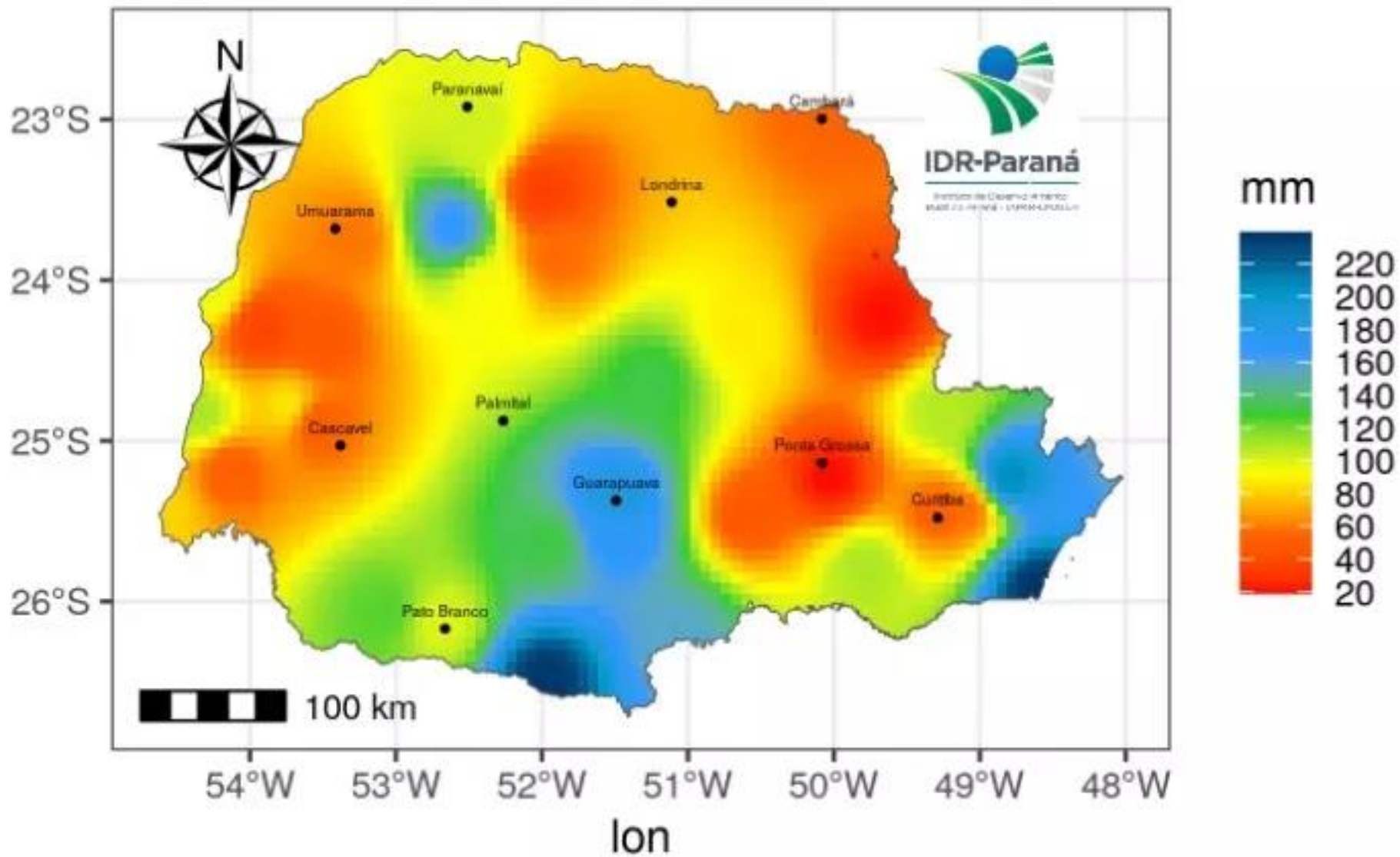


ANOMALIA DE PRECIPITACAO
VALIDO PARA MARÇO DE 2024

**Anomal.
Prec. mar/24**

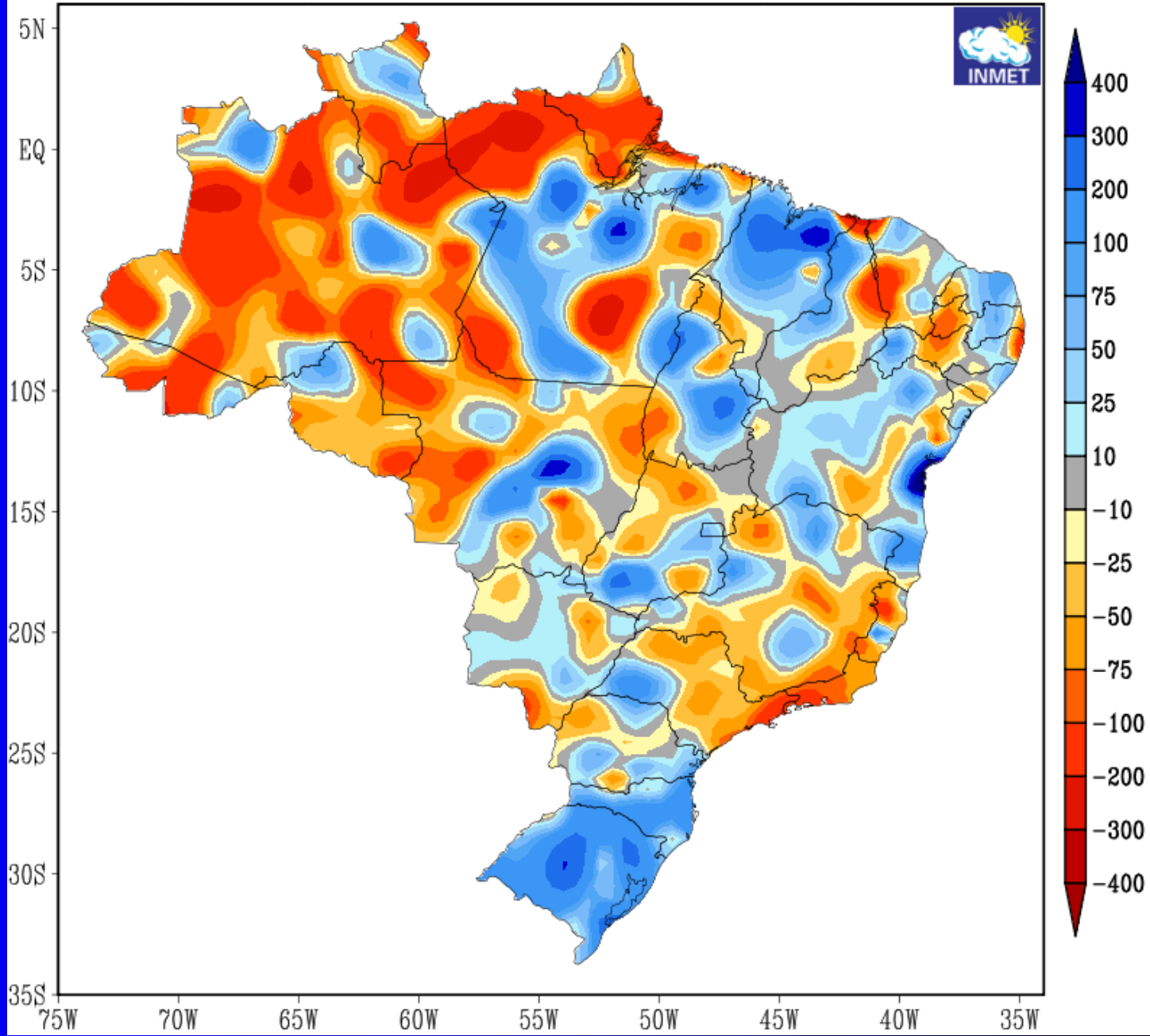


Precipitação março / 2024

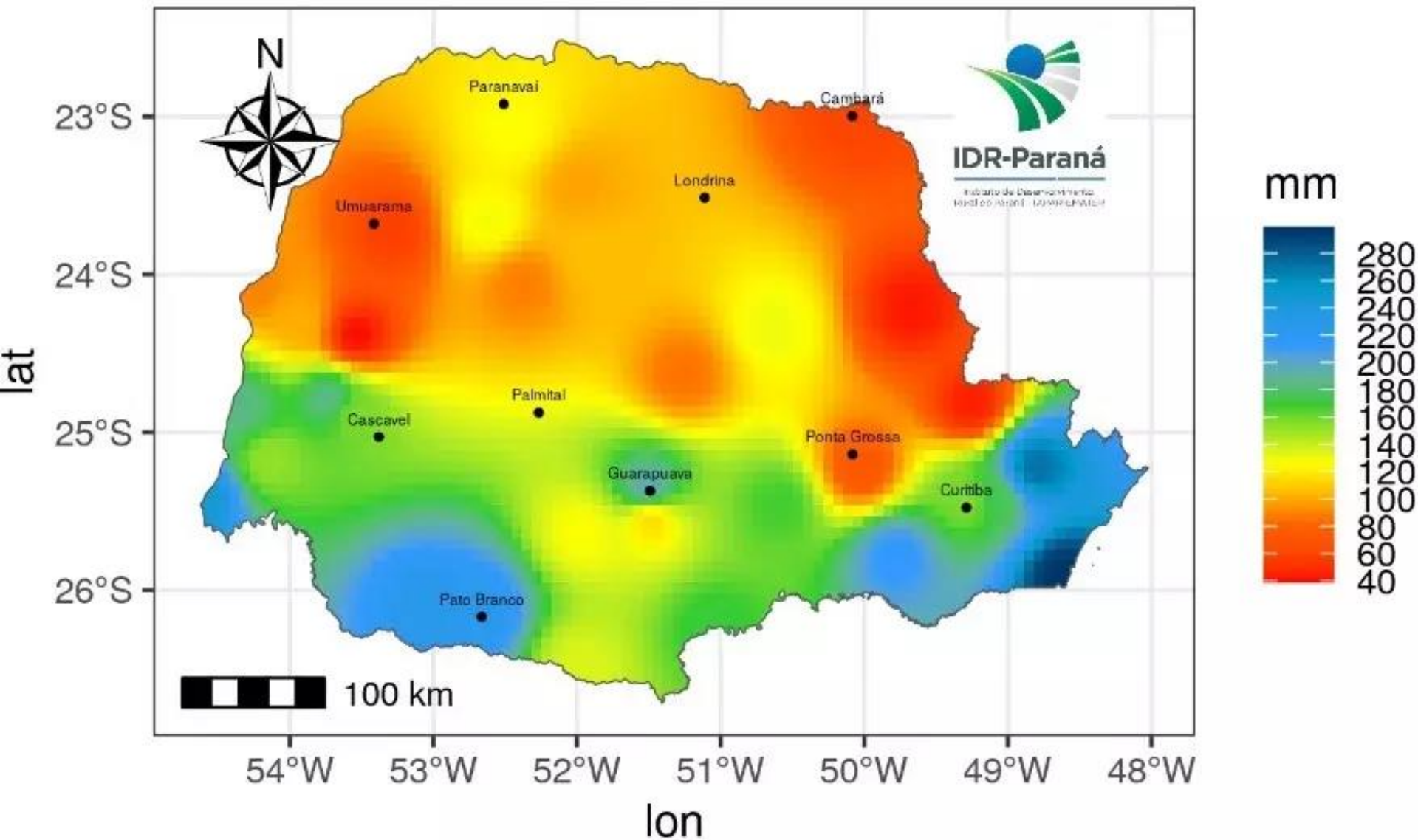


ANOMALIA DE PRECIPITACAO
VALIDO PARA ABRIL DE 2024

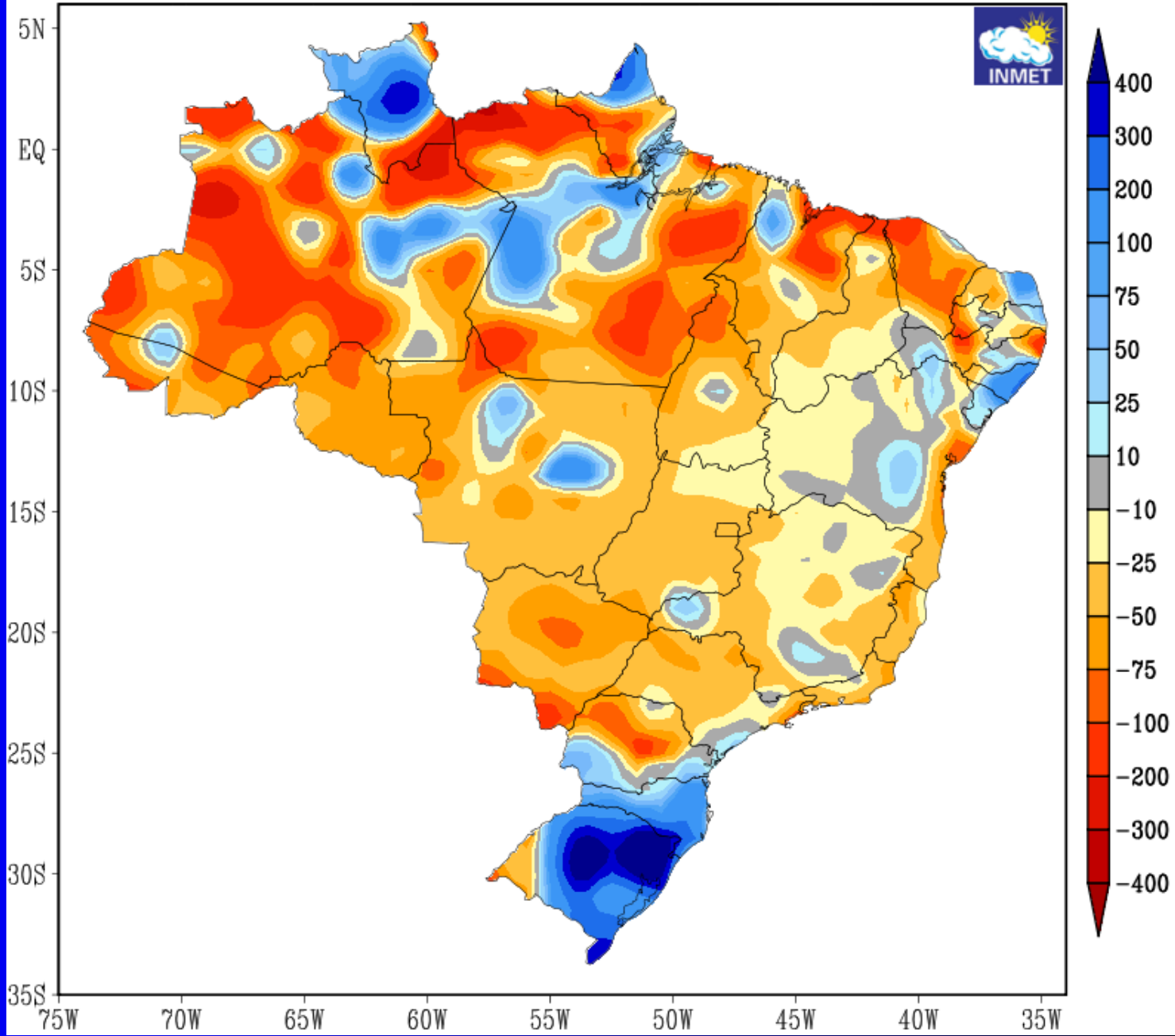
**Anomal.
Prec. Abr/24**



Precipitação abril / 2024



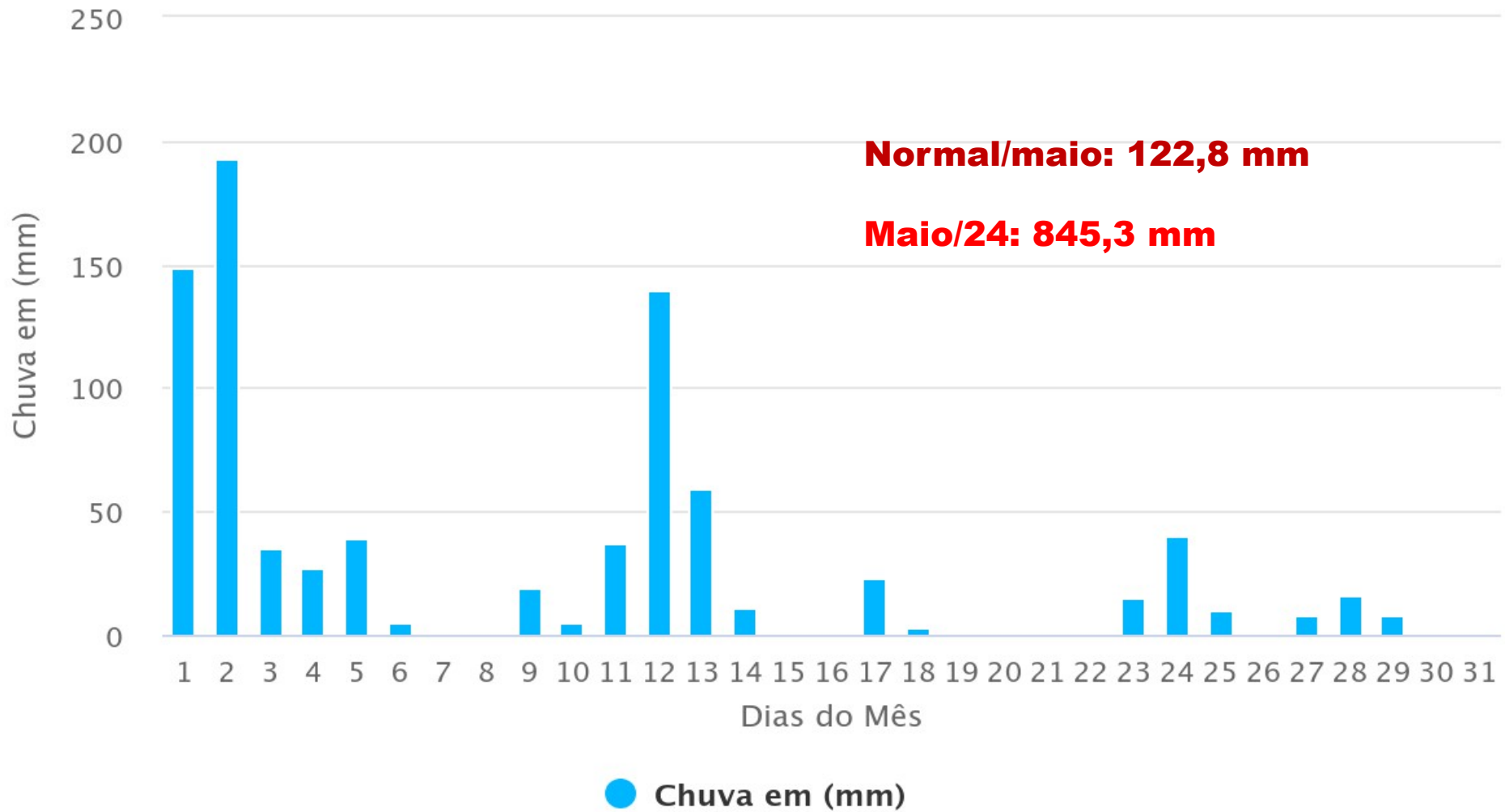
ANOMALIA DE PRECIPITACAO
VALIDO PARA MAIO DE 2024



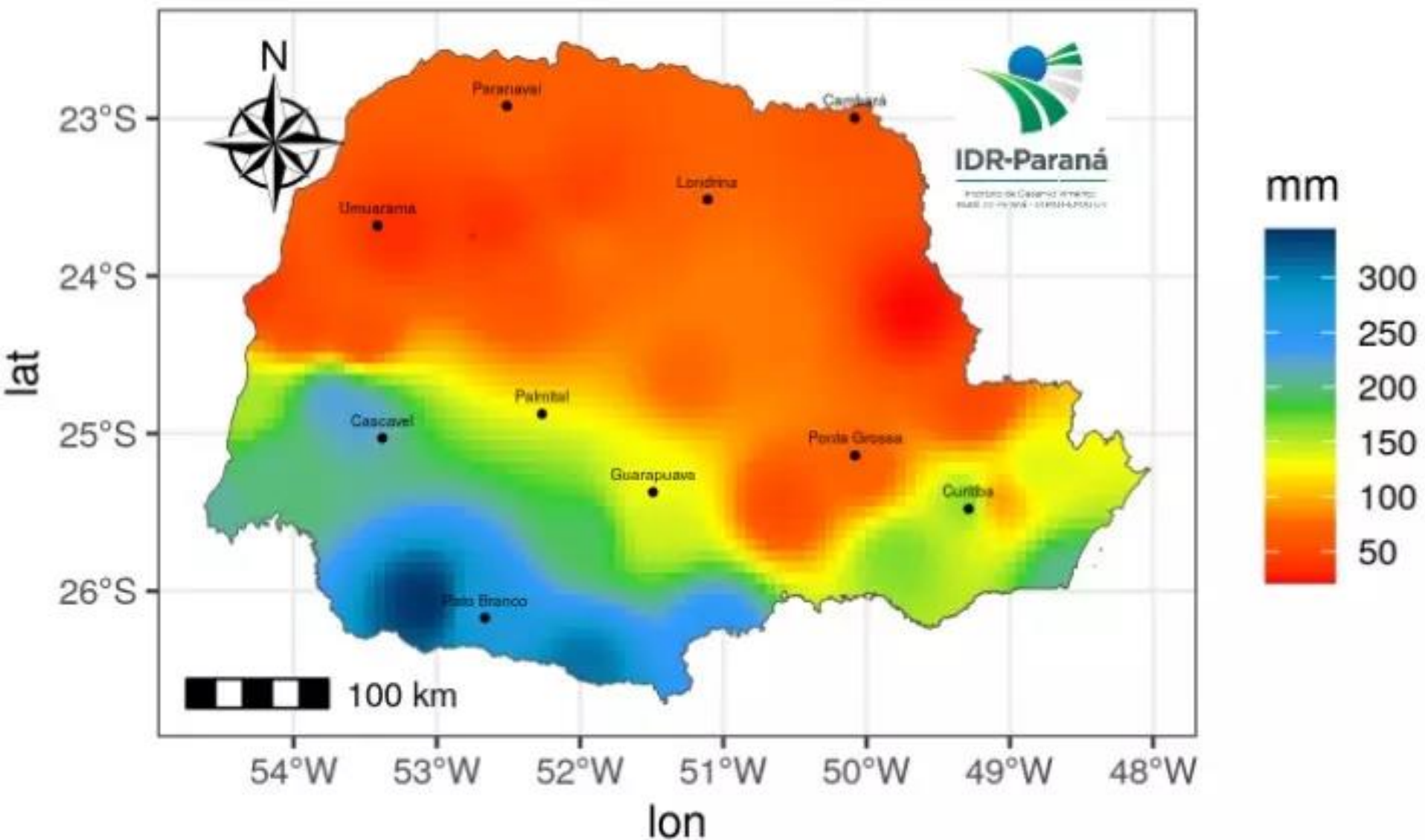
**Anomal.
Prec. Maio/24**

Instituto Nacional de Meteorologia – INMET

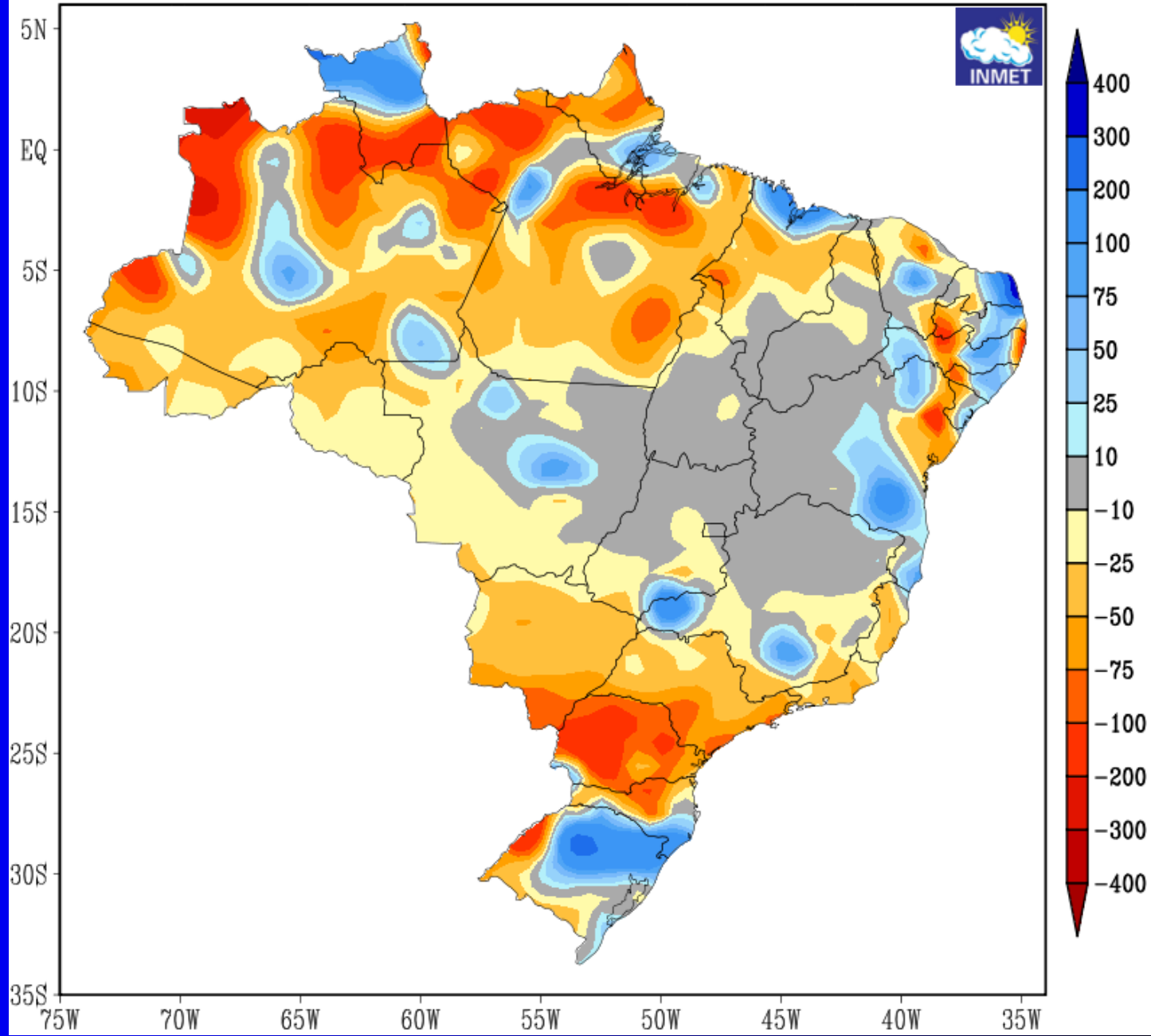
Chuva Acumulada em 24h || Estação: CAXIAS DO SUL (83942) – 05/2024



Precipitação maio / 2024

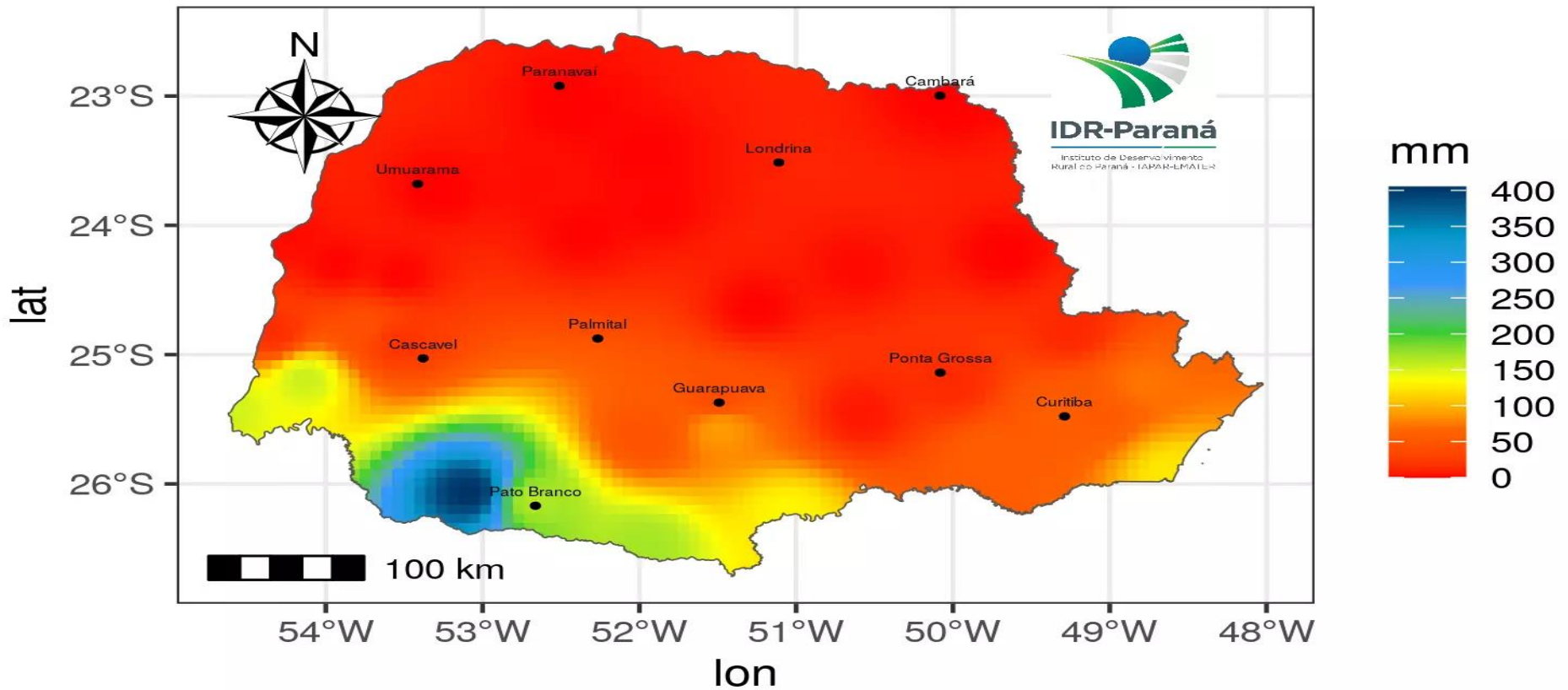


ANOMALIA DE PRECIPITACAO
VALIDO PARA JUNHO DE 2024



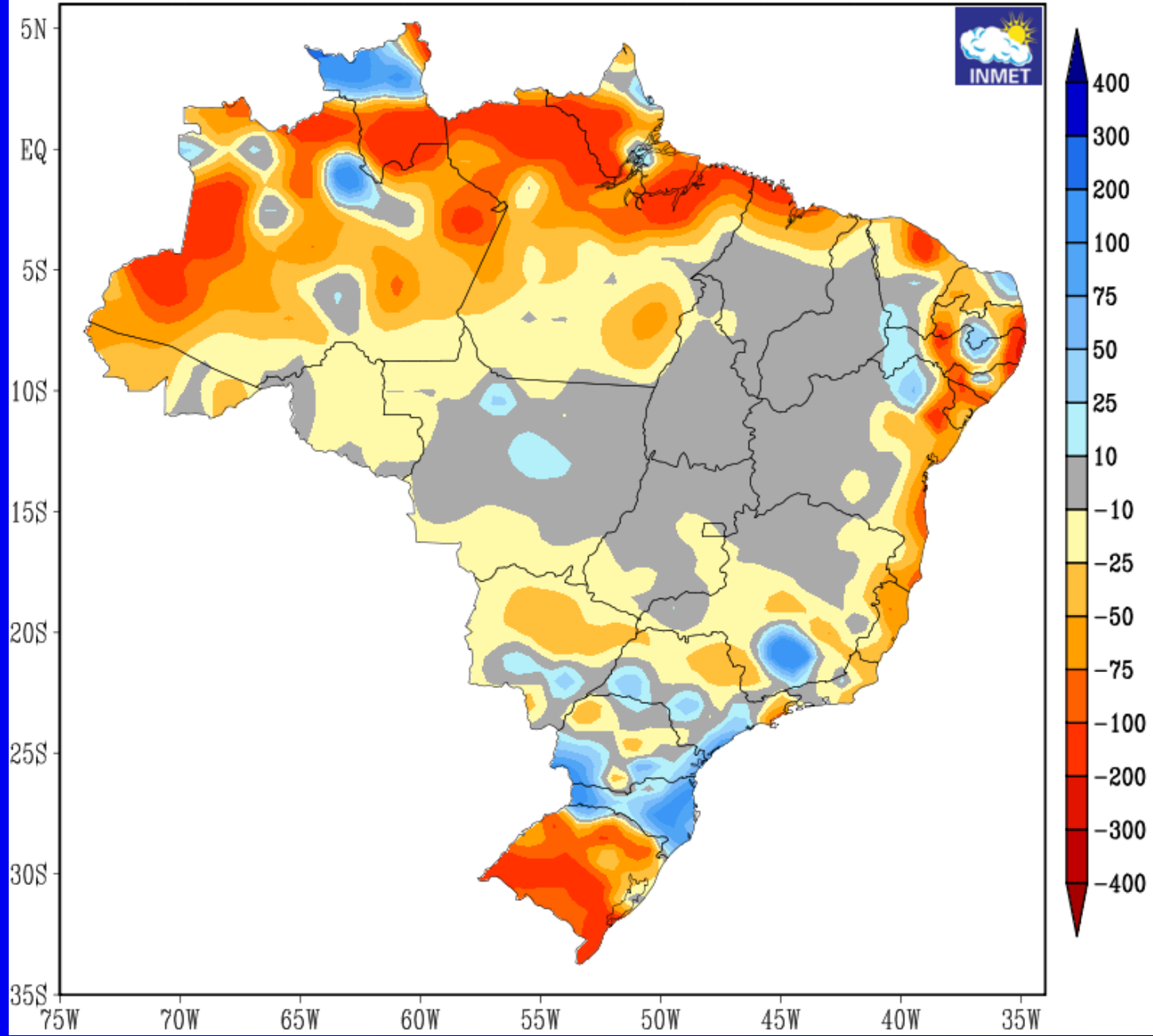
**Anomal.
Prec. jun/24**

Precipitação junho / 2024

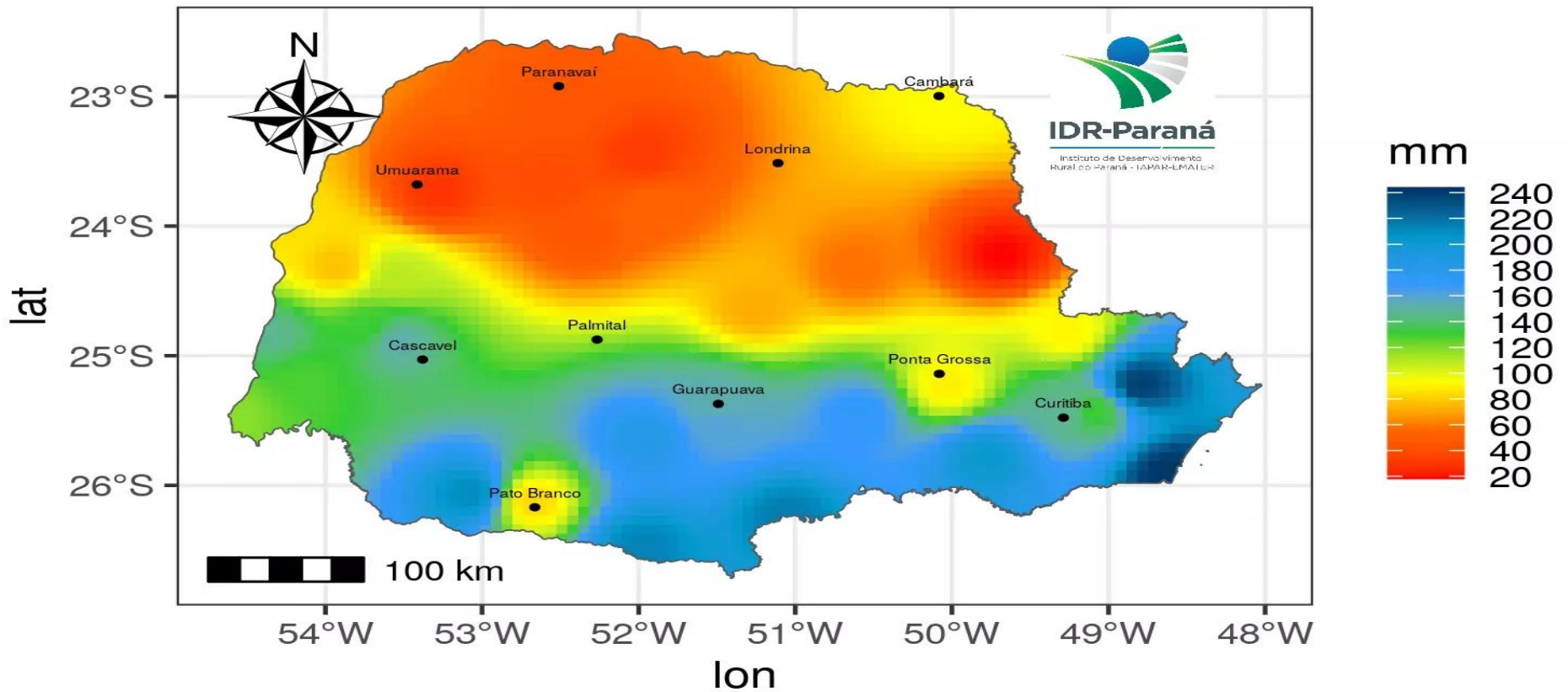


ANOMALIA DE PRECIPITACAO
VALIDO PARA JULHO DE 2024

**Anomal.
Prec. jul/24**

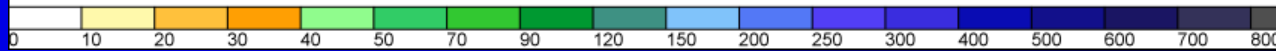
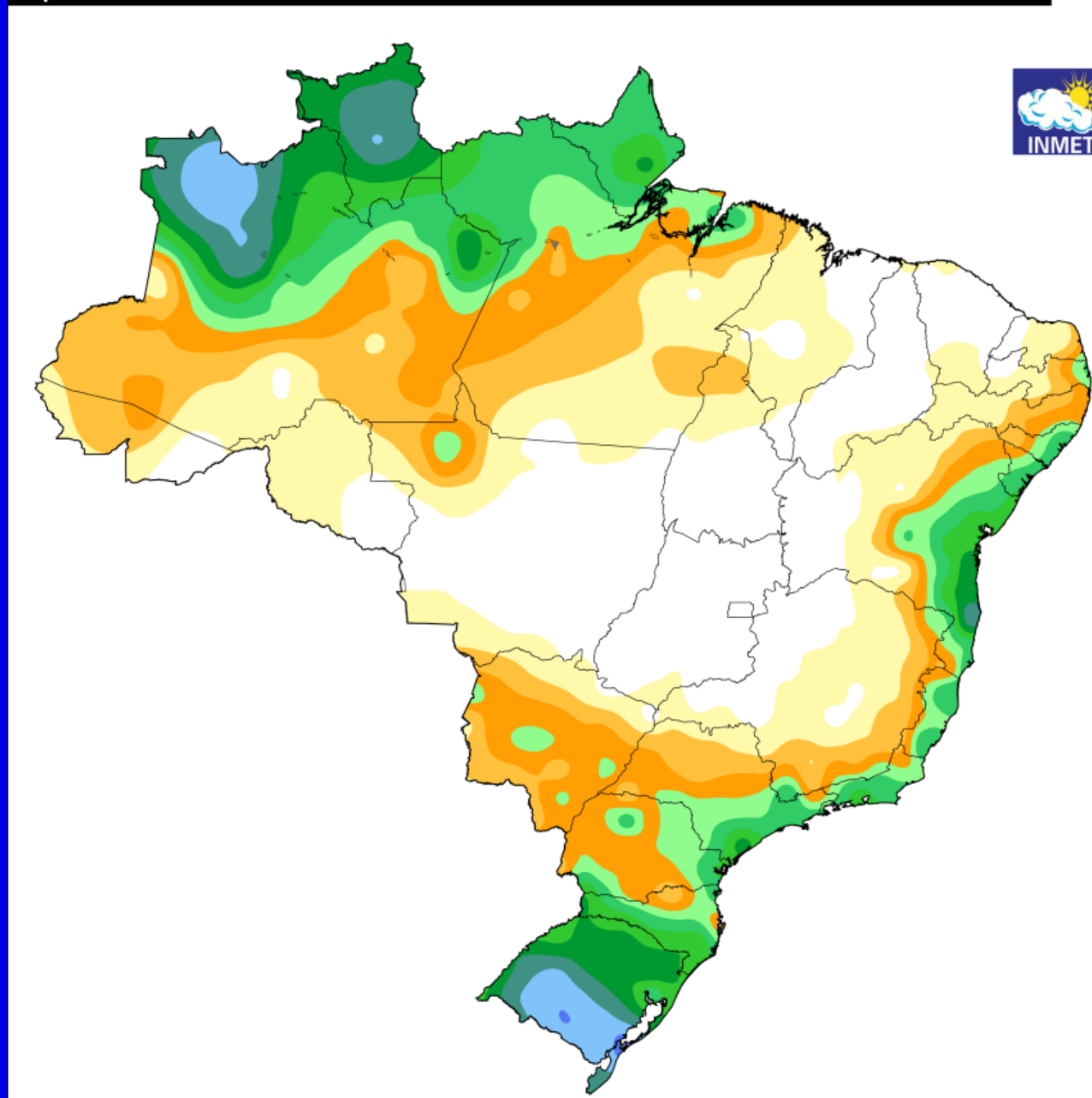


Precipitação julho / 2024

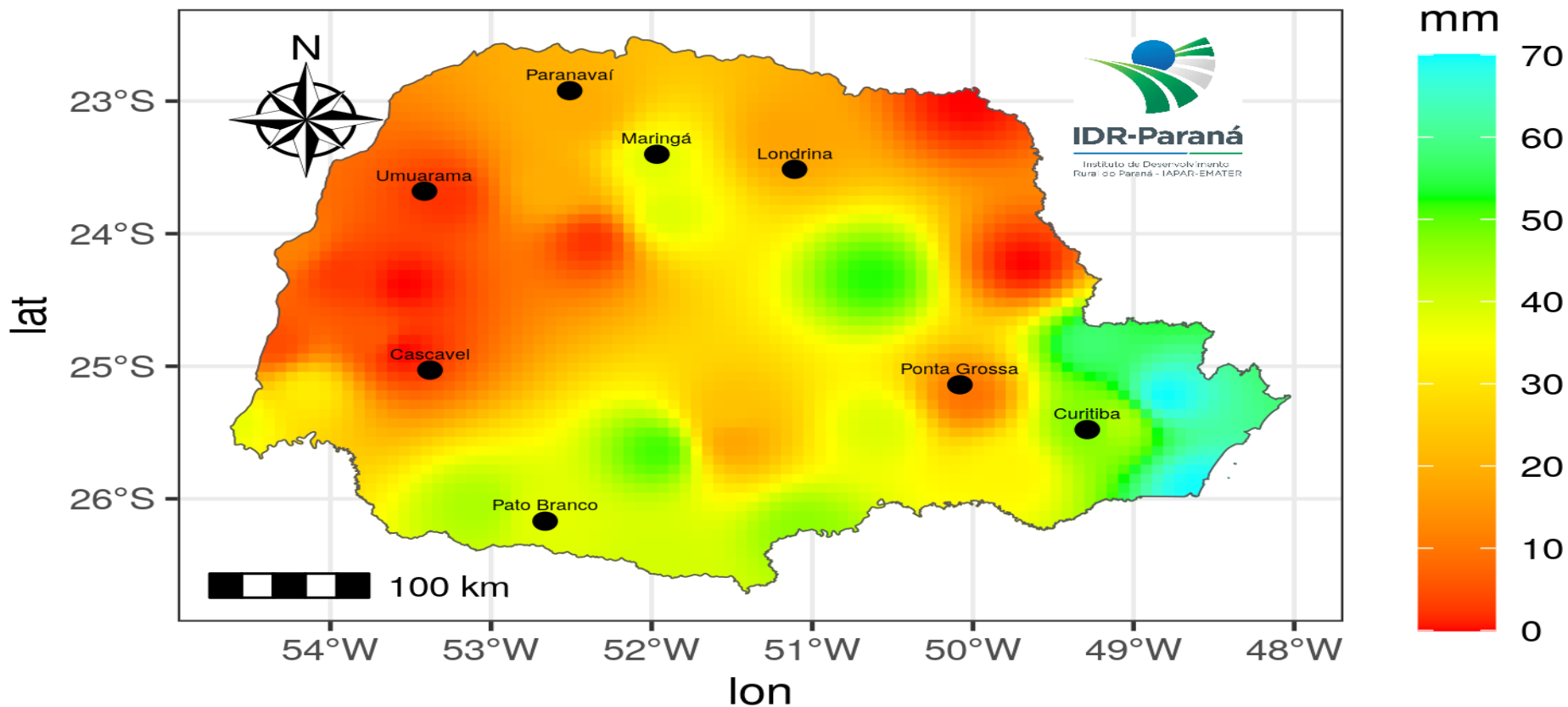




**Prec.
Acumulada
últimos 30 dias
Até 29/08**



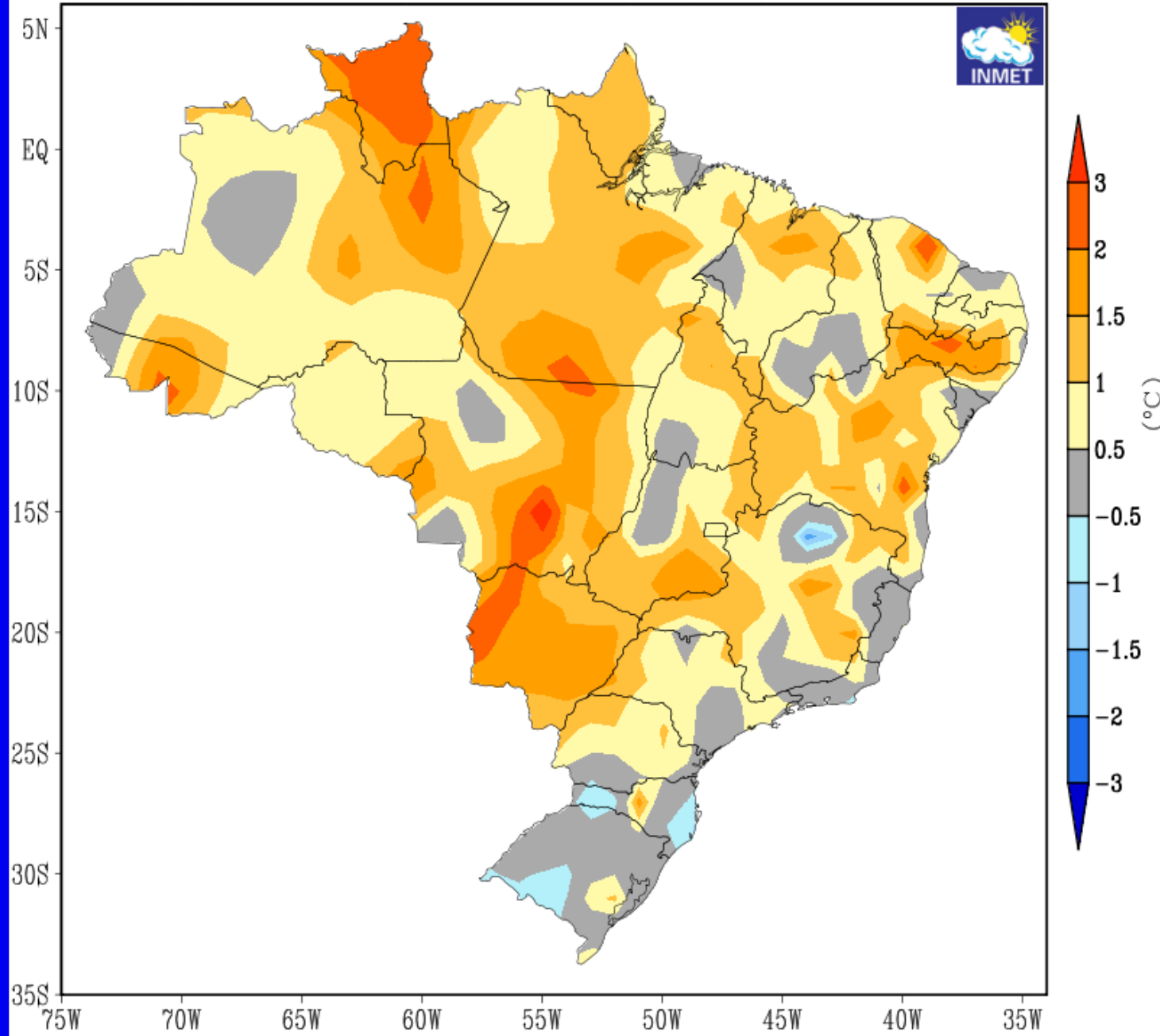
Água Disponível no Solo - 28/08/2024



Temperatura

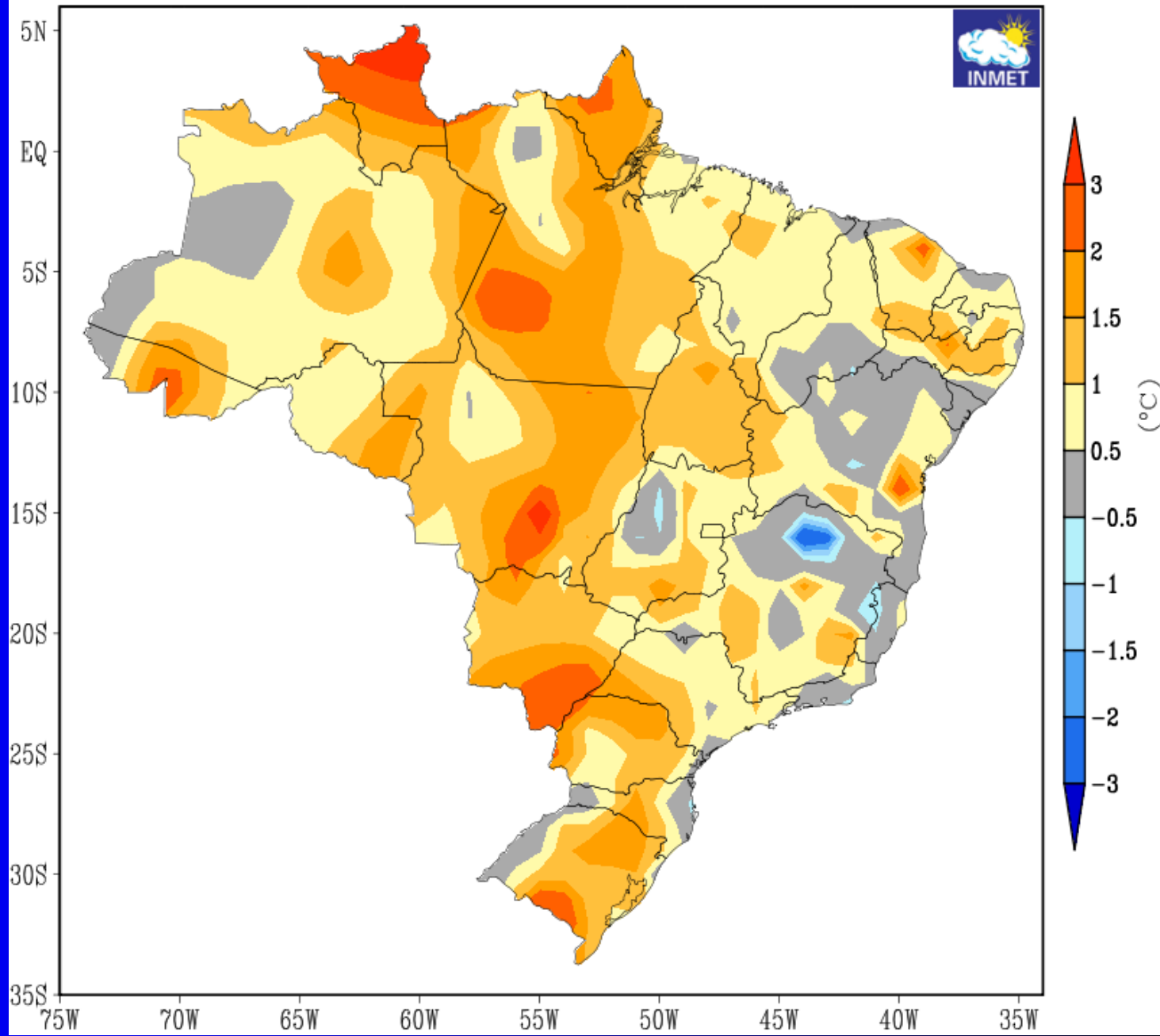


ANOMALIAS DE TEMPERATURAS MEDIAS
VALIDO PARA JANEIRO DE 2024
CLIMATOLOGIA DE REFERENCIA:1981-2010



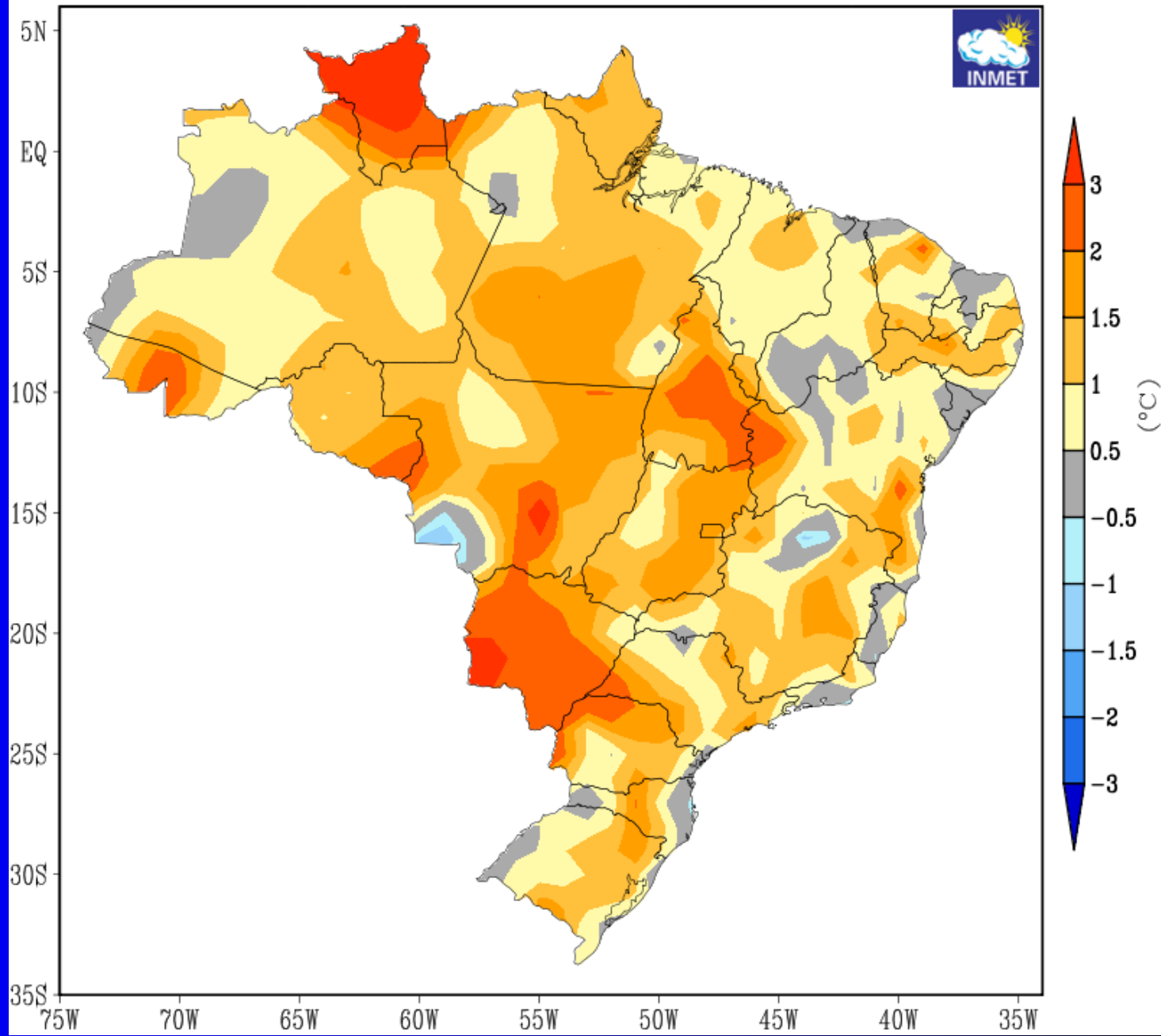
**Anomal.
Temp.
Jan/24**

ANOMALIAS DE TEMPERATURAS MEDIAS
VALIDO PARA FEVEREIRO DE 2024
CLIMATOLOGIA DE REFERENCIA:1981-2010



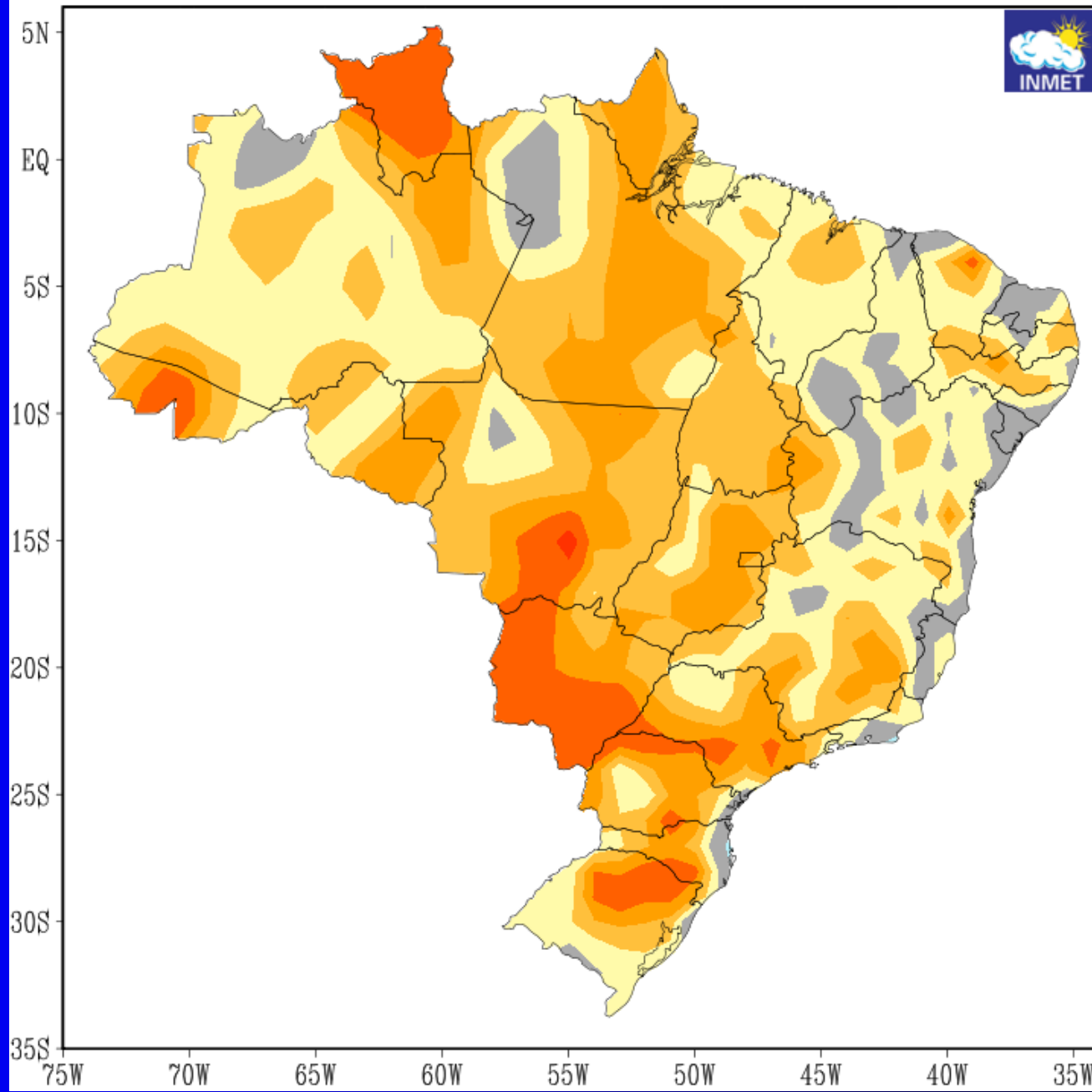
**Anomal.
Temp.
Fev/24**

ANOMALIAS DE TEMPERATURAS MEDIAS
VALIDO PARA MARÇO DE 2024
CLIMATOLOGIA DE REFERENCIA:1981-2010



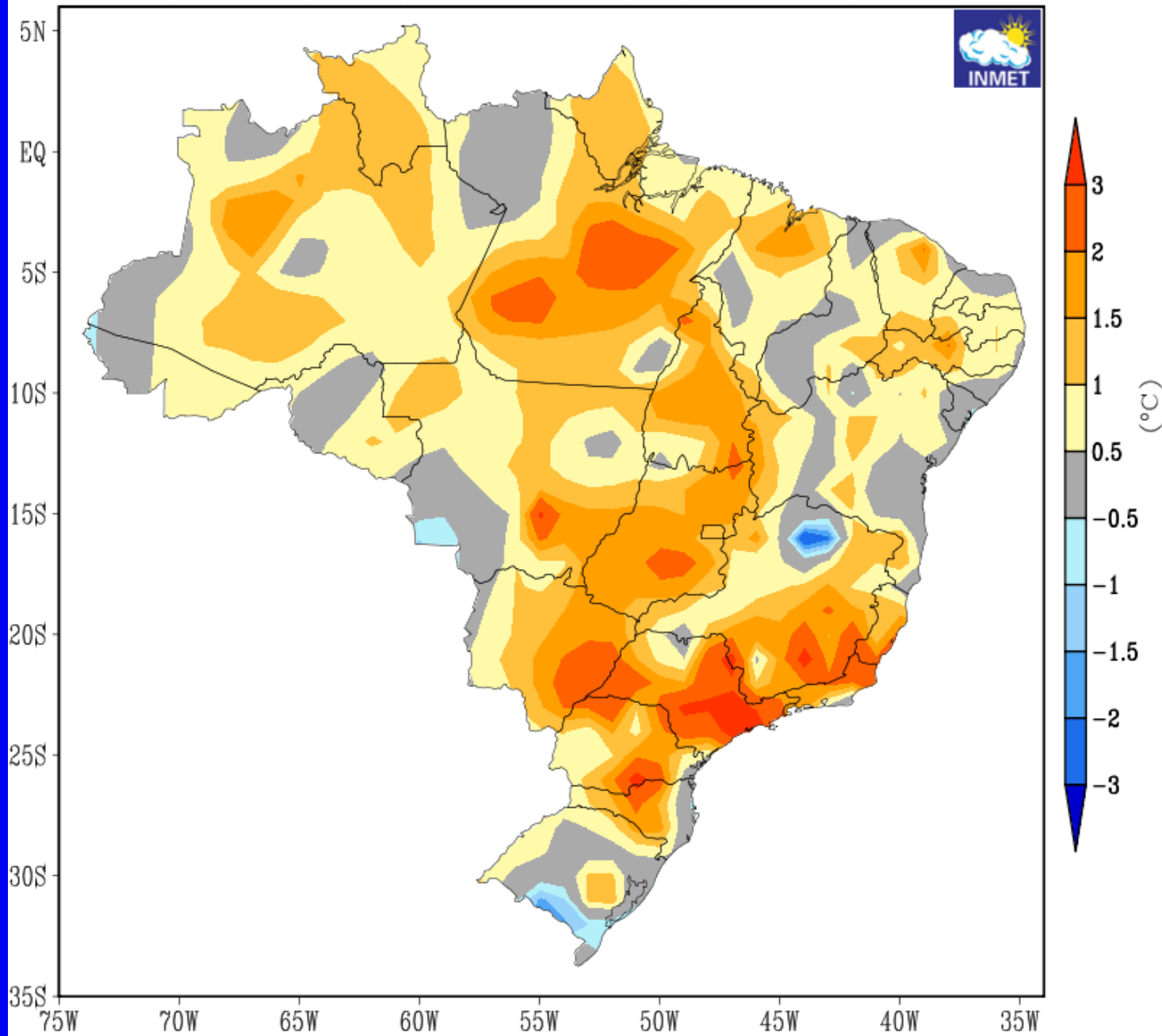
**Anomal.
Temp.Mar/24**

ANOMALIAS DE TEMPERATURAS MEDIAS
VALIDO PARA ABRIL DE 2024
CLIMATOLOGIA DE REFERENCIA:1981-2010



**Anomal.
Temp.Abr/24**

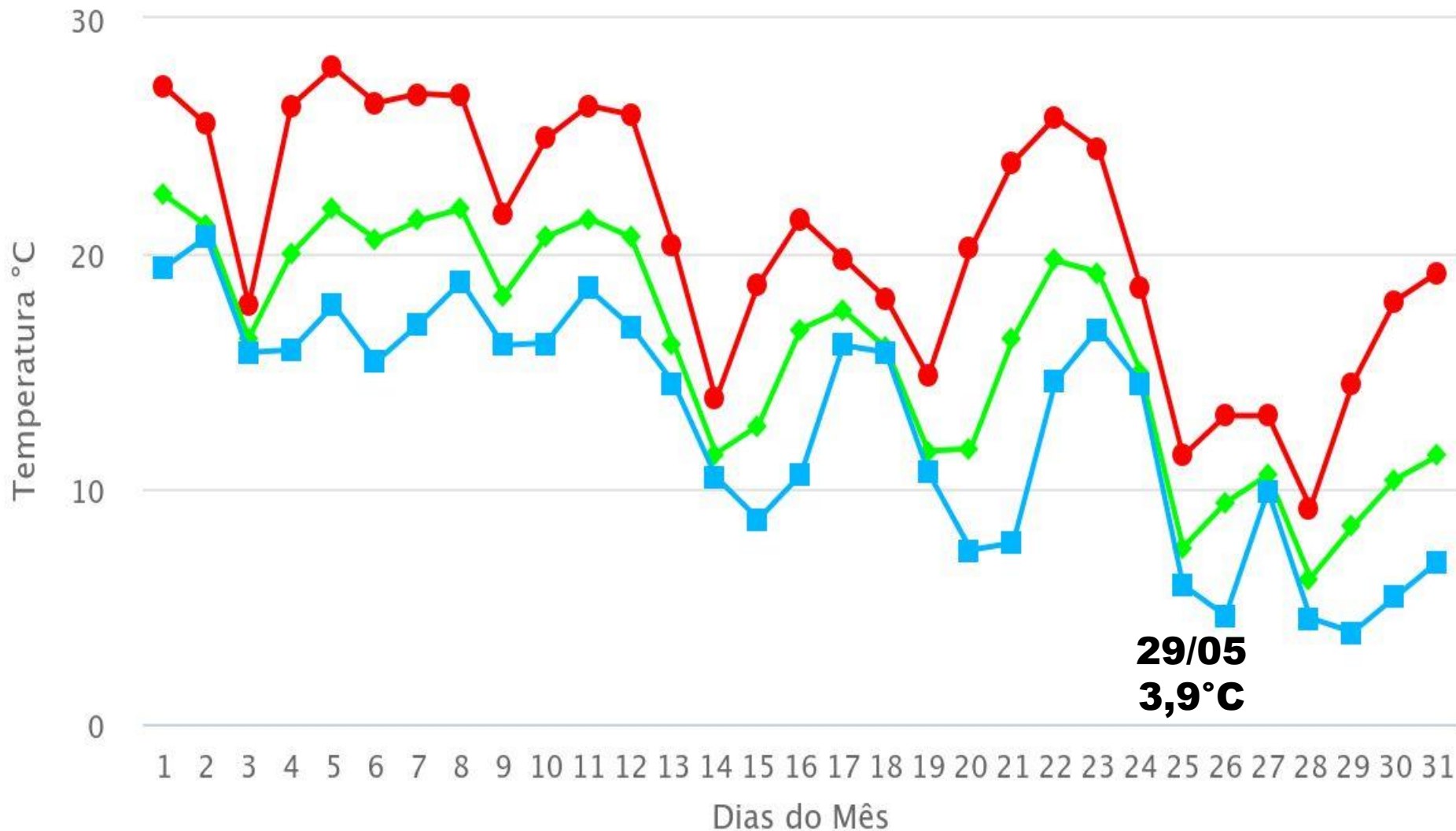
ANOMALIAS DE TEMPERATURAS MEDIAS
VALIDO PARA MAIO DE 2024
CLIMATOLOGIA DE REFERENCIA:1981-2010



**Anomal.
Temp.Maio/24**

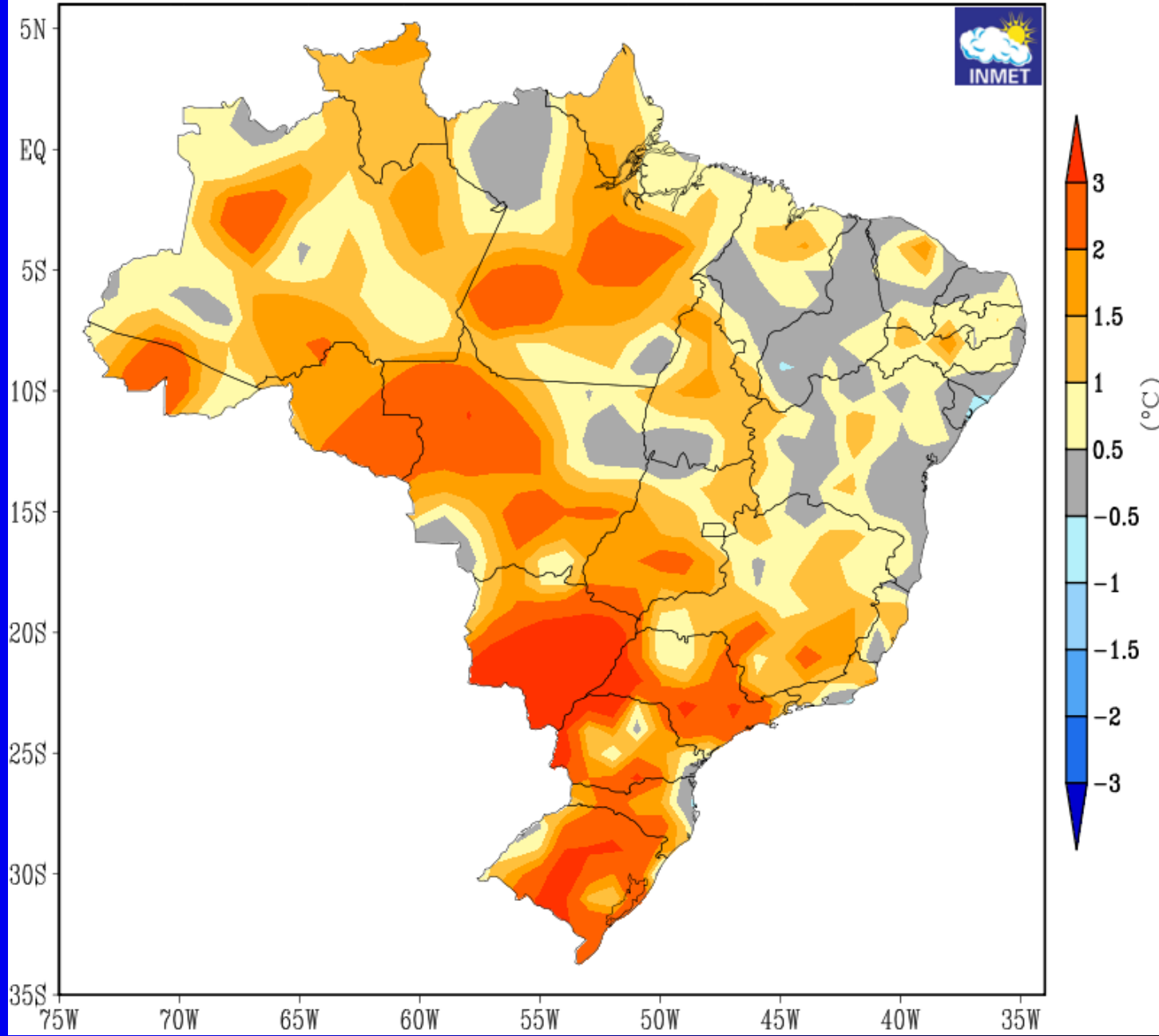
Instituto Nacional de Meteorologia – INMET

Temperaturas Diárias (Máxima, Média, Mínima) || Estação: CLEVELANDIA (A876) – 05/2024



Temp. Máxima Temp. Média Comp. Temp. Mínima

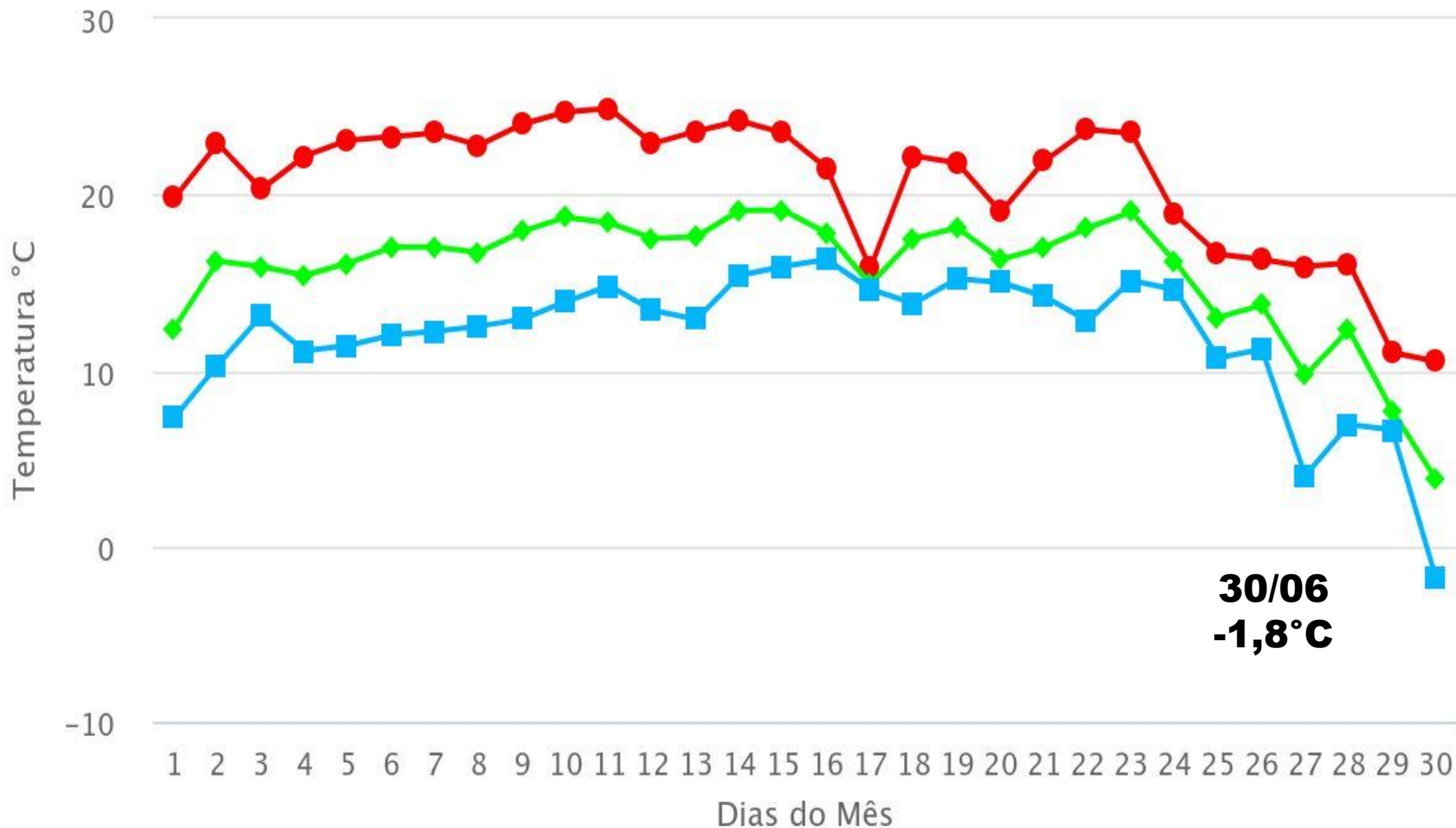
ANOMALIAS DE TEMPERATURAS MEDIAS
VALIDO PARA JUNHO DE 2024
CLIMATOLOGIA DE REFERENCIA:1981-2010



**Anomal.
Temp. Jun/24**

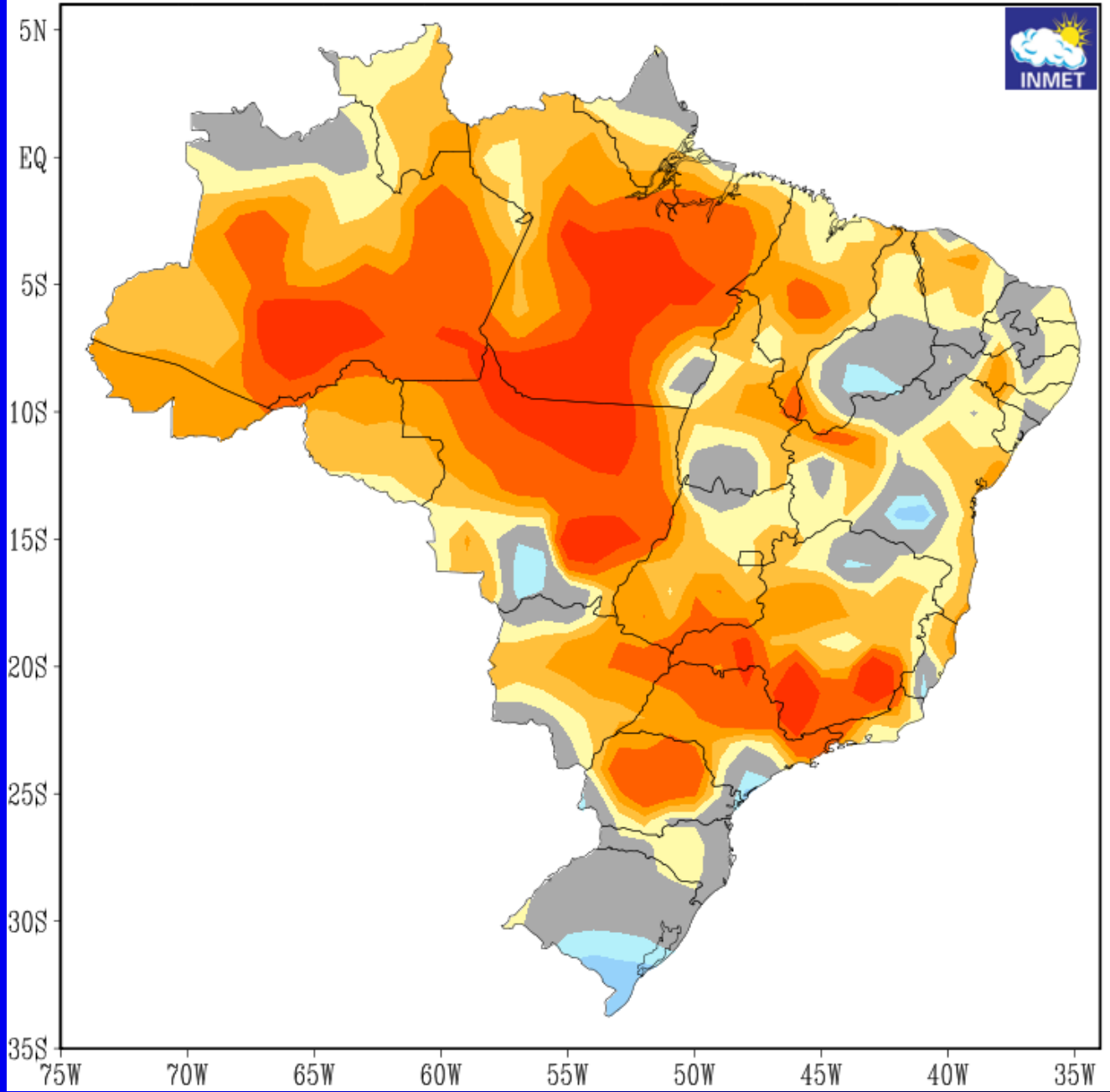
Instituto Nacional de Meteorologia – INMET

Temperaturas Diárias (Máxima, Média, Mínima) || Estação: CLEVELANDIA (A876) – 06/2024



● Temp. Máxima ◆ Temp. Média Comp. ■ Temp. Mínima

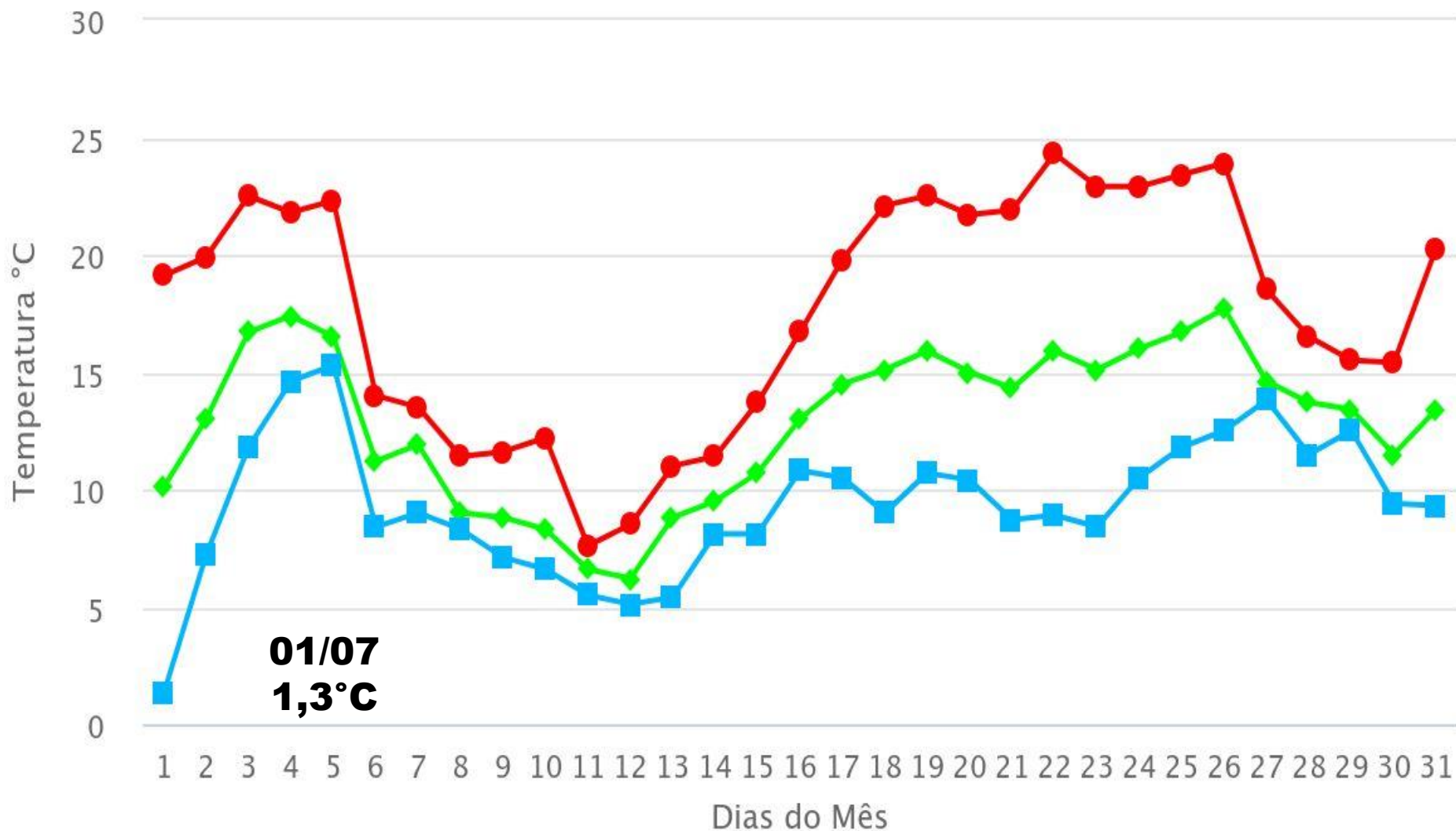
ANOMALIAS DE TEMPERATURAS MEDIAS
VALIDO PARA JULHO DE 2024
CLIMATOLOGIA DE REFERENCIA: 1981-2010



**Anomal.
Temp.
Jul/24**

Instituto Nacional de Meteorologia – INMET

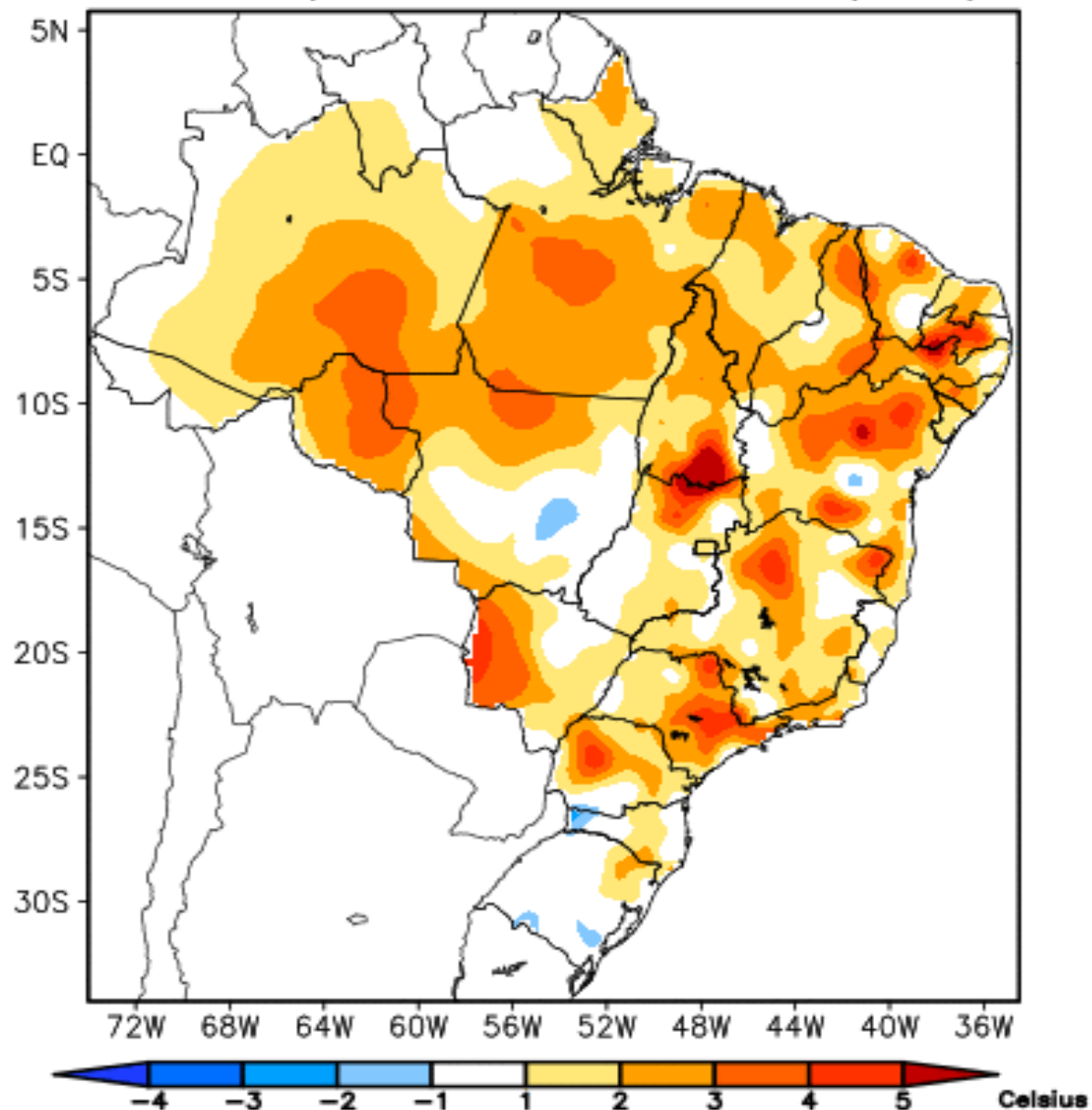
Temperaturas Diárias (Máxima, Média, Mínima) || Estação: CLEVELANDIA (A876) – 07/2024



● Temp. Máxima ◆ Temp. Média Comp. ■ Temp. Mínima

**Anomal.
Temp.
max.
Ago/24**

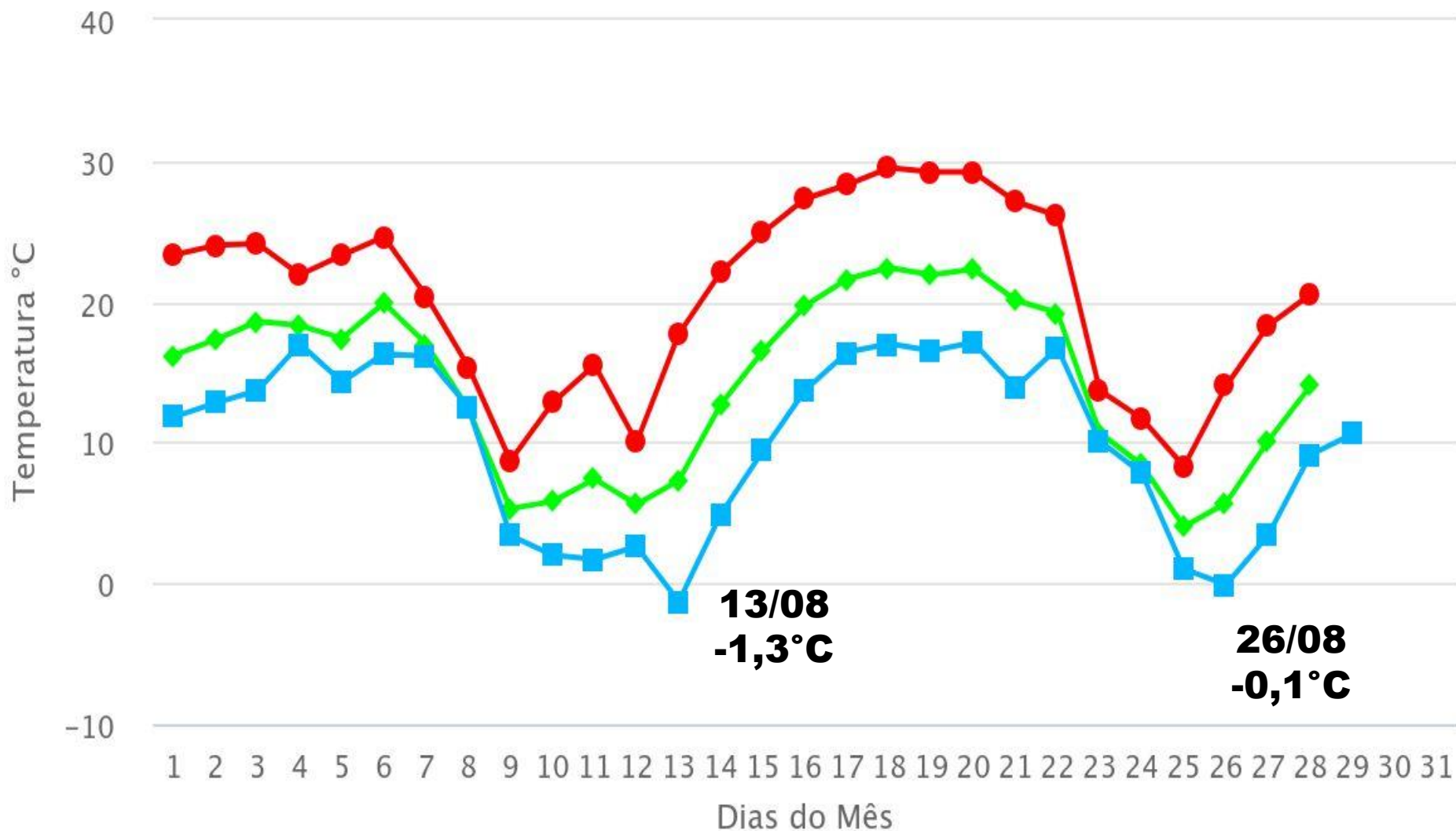
Anomalia Temperatura Maxima ate 29/AGO/2024



Fontes de dados: CPTEC/INPE-INMET-FUNCEME/CE-AESA/PB-EMPARN/RN
ITEP/LAMEPE/PE-FEPAGRO/RS-CHESF-COMET/RJ-DHME/PI-CMRH/SE-SEMARH/A
SEMARH/BA-CEMIG/SIMGE/MG-SEAG/ES-SIMEPAR/PR-CLIMERH/SC-IAC/SP

Instituto Nacional de Meteorologia – INMET

Temperaturas Diárias (Máxima, Média, Mínima) || Estação: CLEVELANDIA (A876) – 08/2024



● Temp. Máxima ◆ Temp. Média Comp. ■ Temp. Mínima

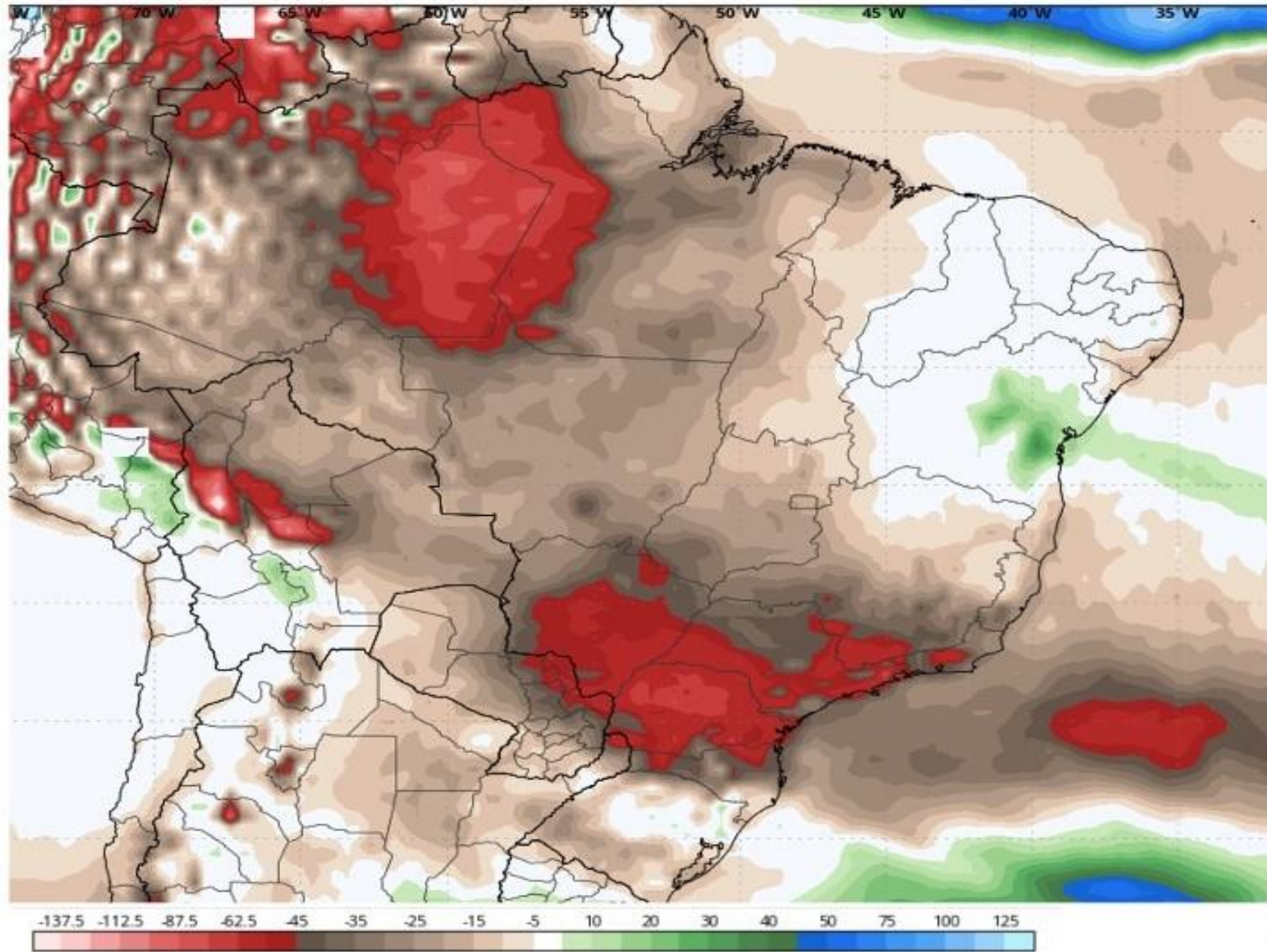
Precipitação Tendência

A wide-angle photograph of a vast agricultural field. The foreground is filled with lush green crops, likely wheat or barley, with some stalks showing developing grain. The field extends to a flat horizon line. Above the horizon, the sky is a pale blue with scattered, soft white clouds. The overall scene is bright and clear, suggesting a sunny day.

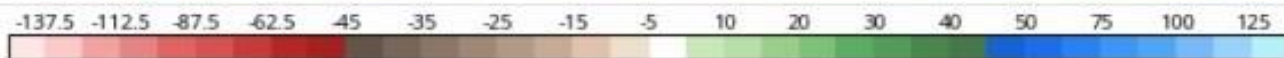
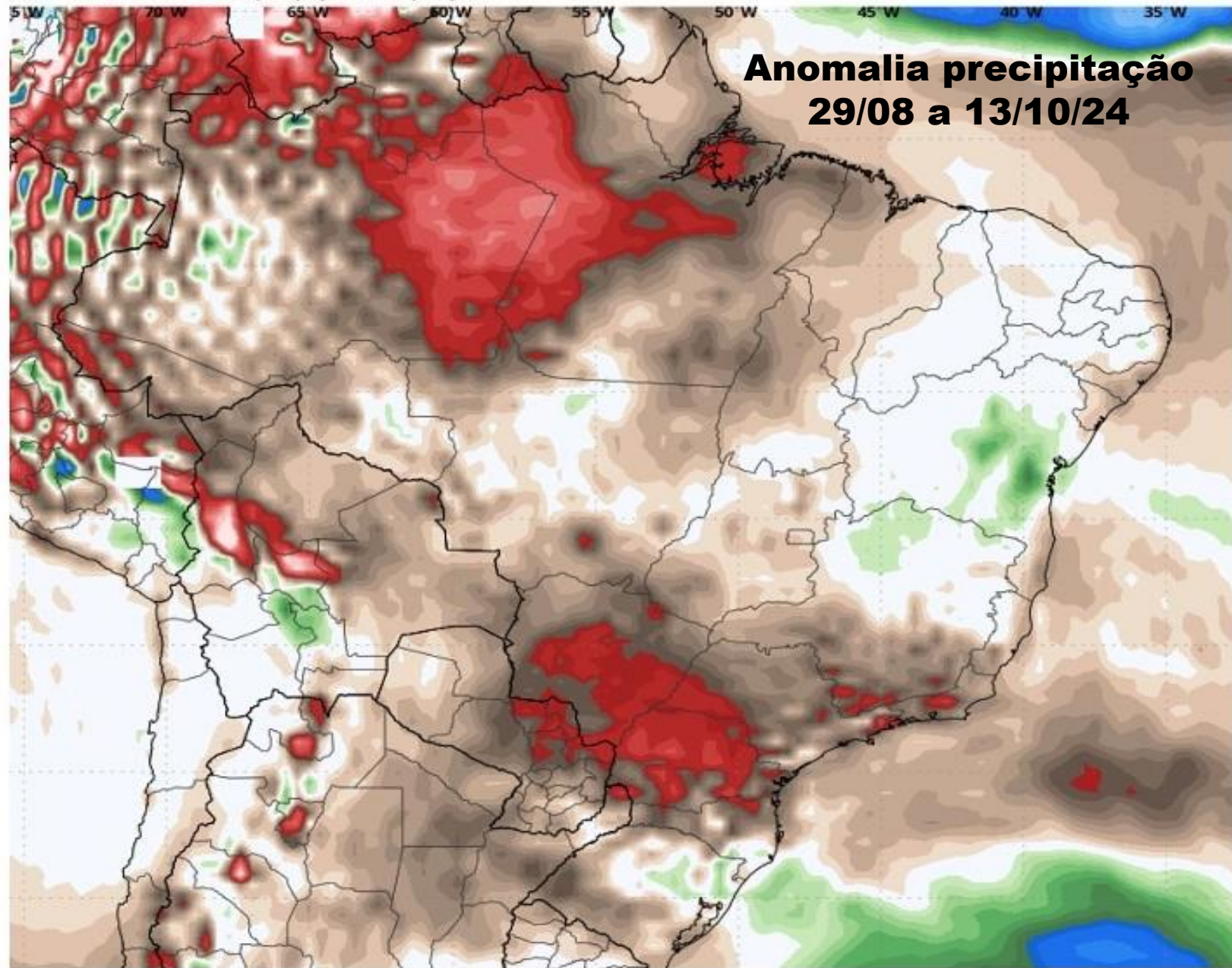
Anomalia precipitação

29/08 a 28/09/24

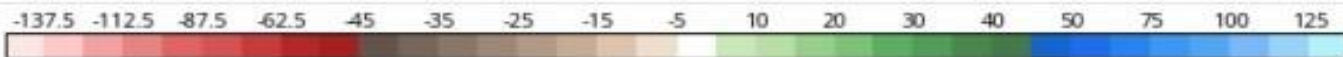
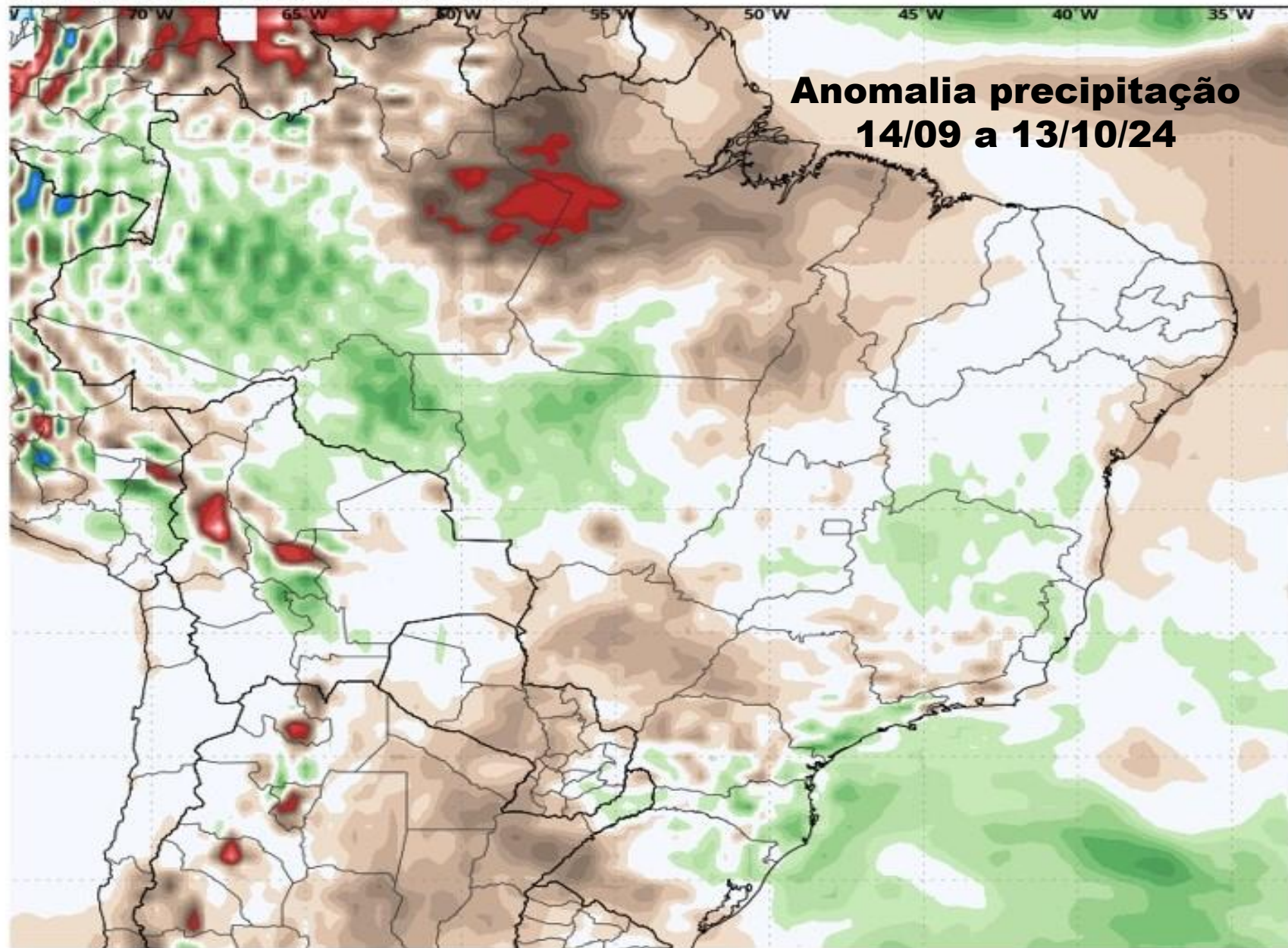
ANOMALIA; 29/8/24 a 28/9/2024



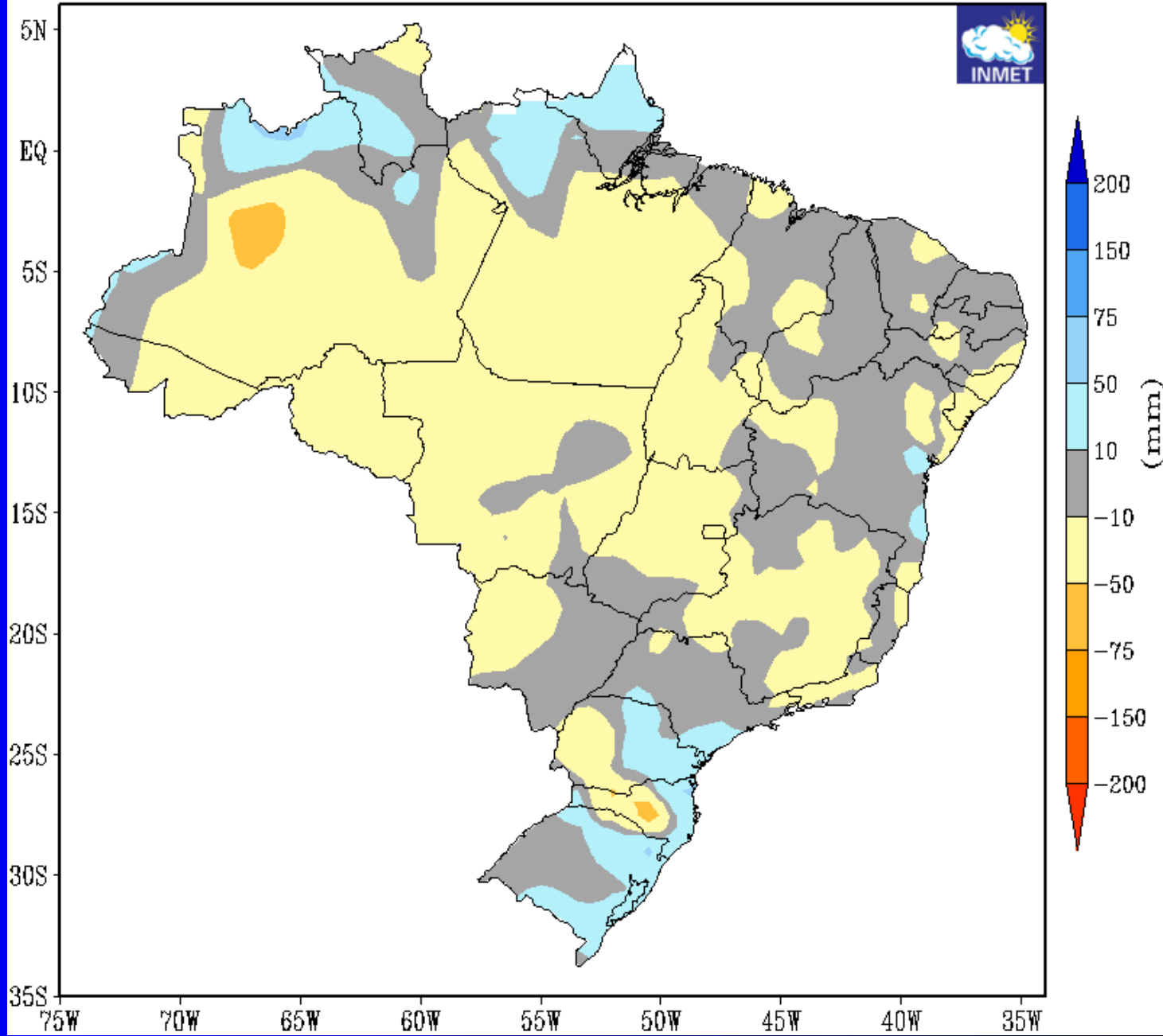
ANOMALIA DA CHUVA; 29/8/24 a 13/10/24



ANOMALIA DA CHUVA 14/9/24 a 13/10/24



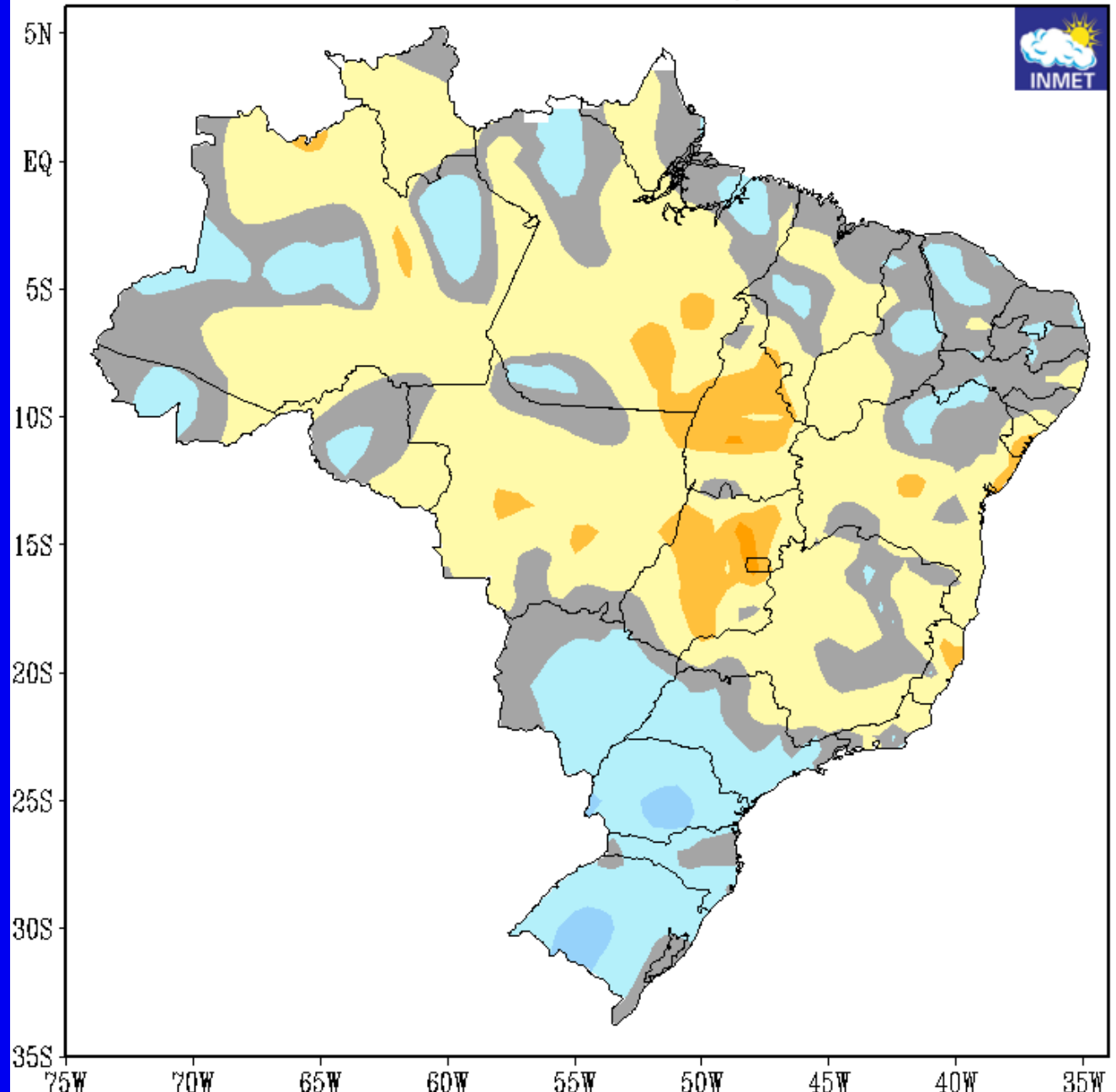
PREVISÃO DE ANOMALIAS DE PRECIPITAÇÃO (mm)
ATUALIZAÇÃO - JUNHO/2024
VALIDO PARA SETEMBRO/2024



Setembro/24

Fonte: Inmet

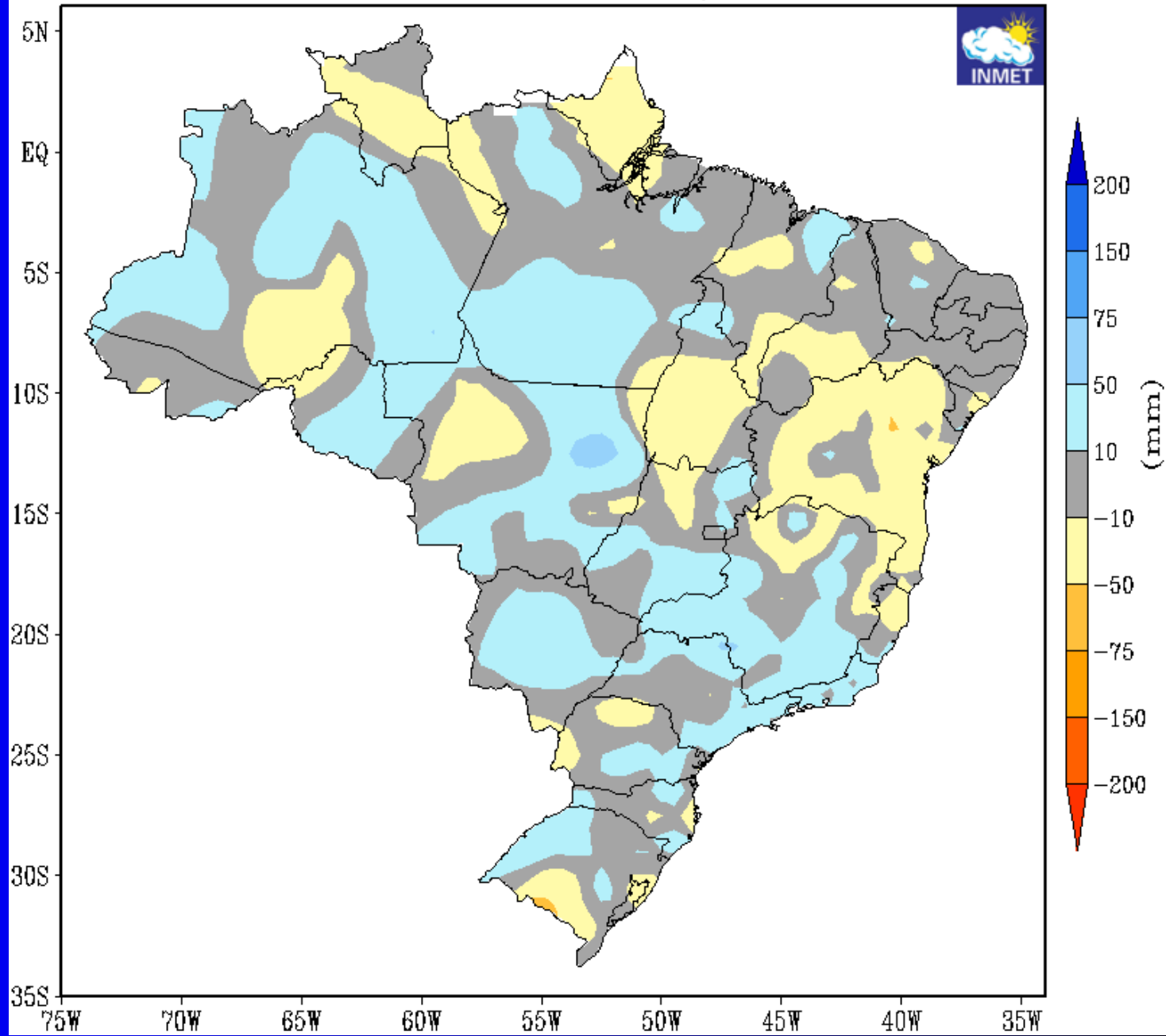
PREVISÃO DE ANOMALIAS DE PRECIPITAÇÃO (mm)
ATUALIZAÇÃO - JUNHO/2024
VALIDO PARA OUTUBRO/2024



Outubro/24

Fonte: Inmet

PREVISÃO DE ANOMALIAS DE PRECIPITAÇÃO (mm)
ATUALIZAÇÃO - AGOSTO/2024
VALIDO PARA NOVEMBRO/2024



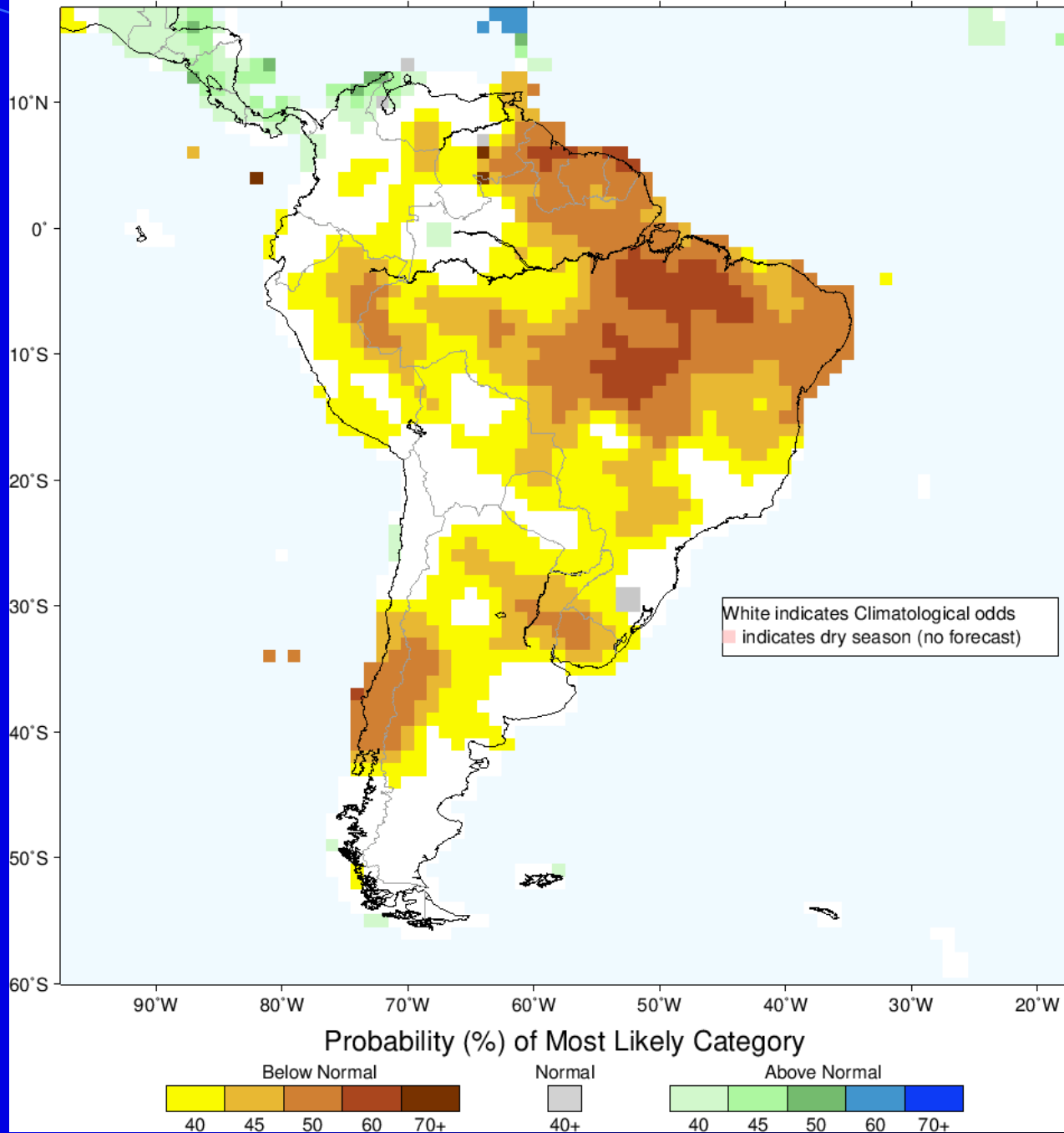
Novembro/24

Fonte: Inmet

IRI Multi-Model Probability Forecast for Precipitation for September–October–November 2024, Issued August 2024

Set/Out/Nov/24

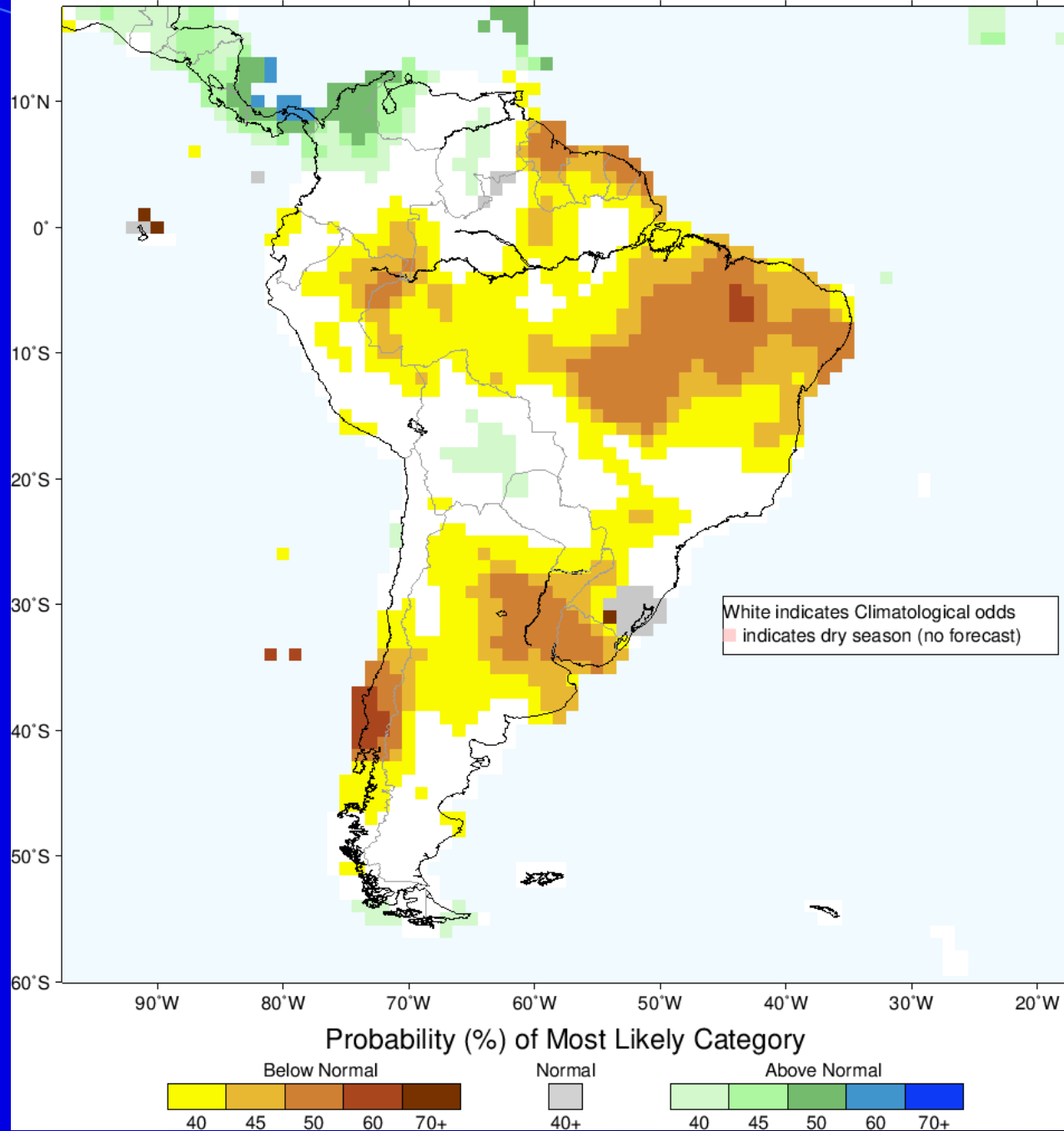
Fonte: IRI



IRI Multi-Model Probability Forecast for Precipitation for October–November–December 2024, Issued August 2024

Out/Nov/Dez24

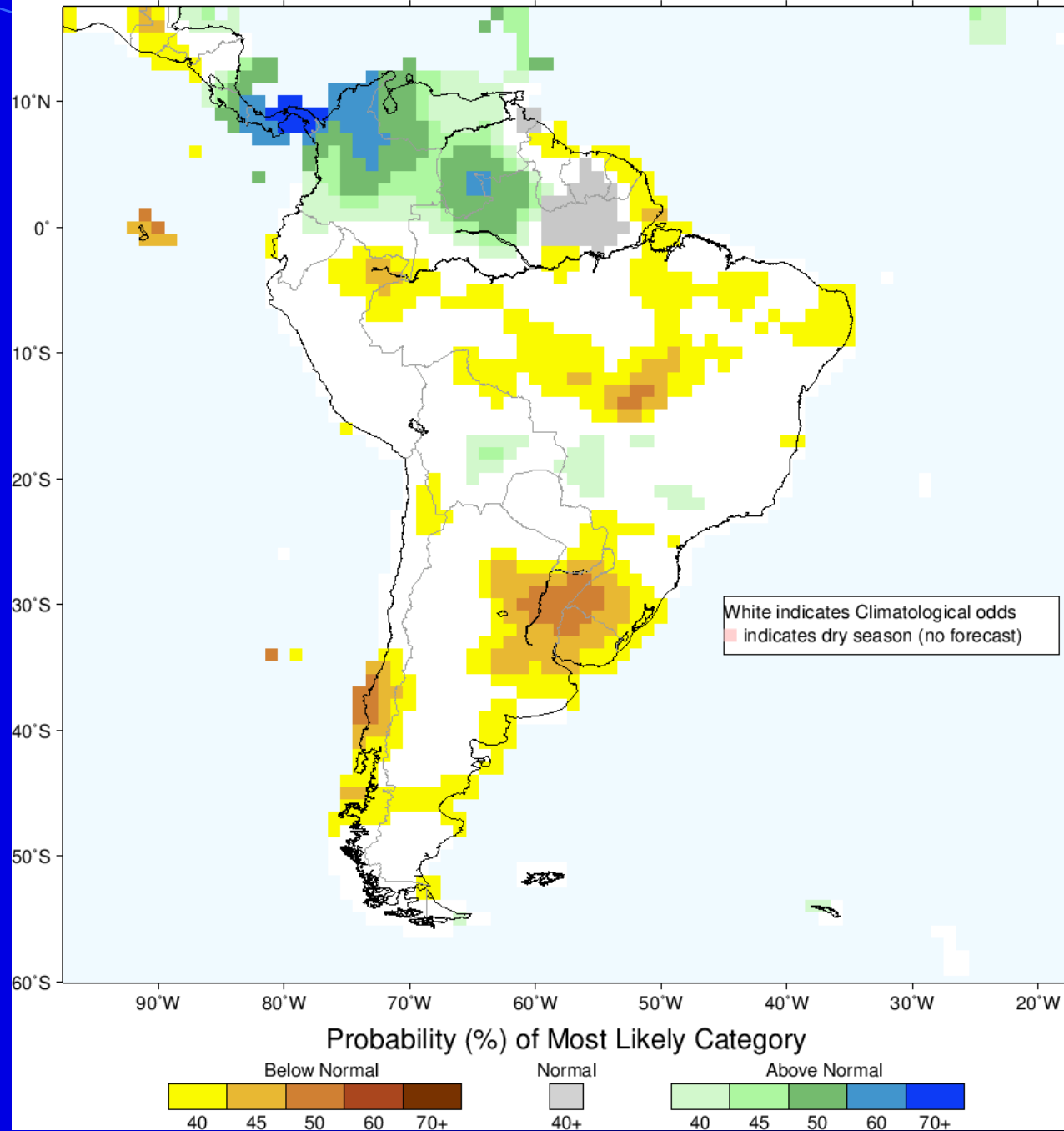
Fonte: IRI



IRI Multi-Model Probability Forecast for Precipitation for November–December–January 2025, Issued August 2024

Nov/Dez/Jan25

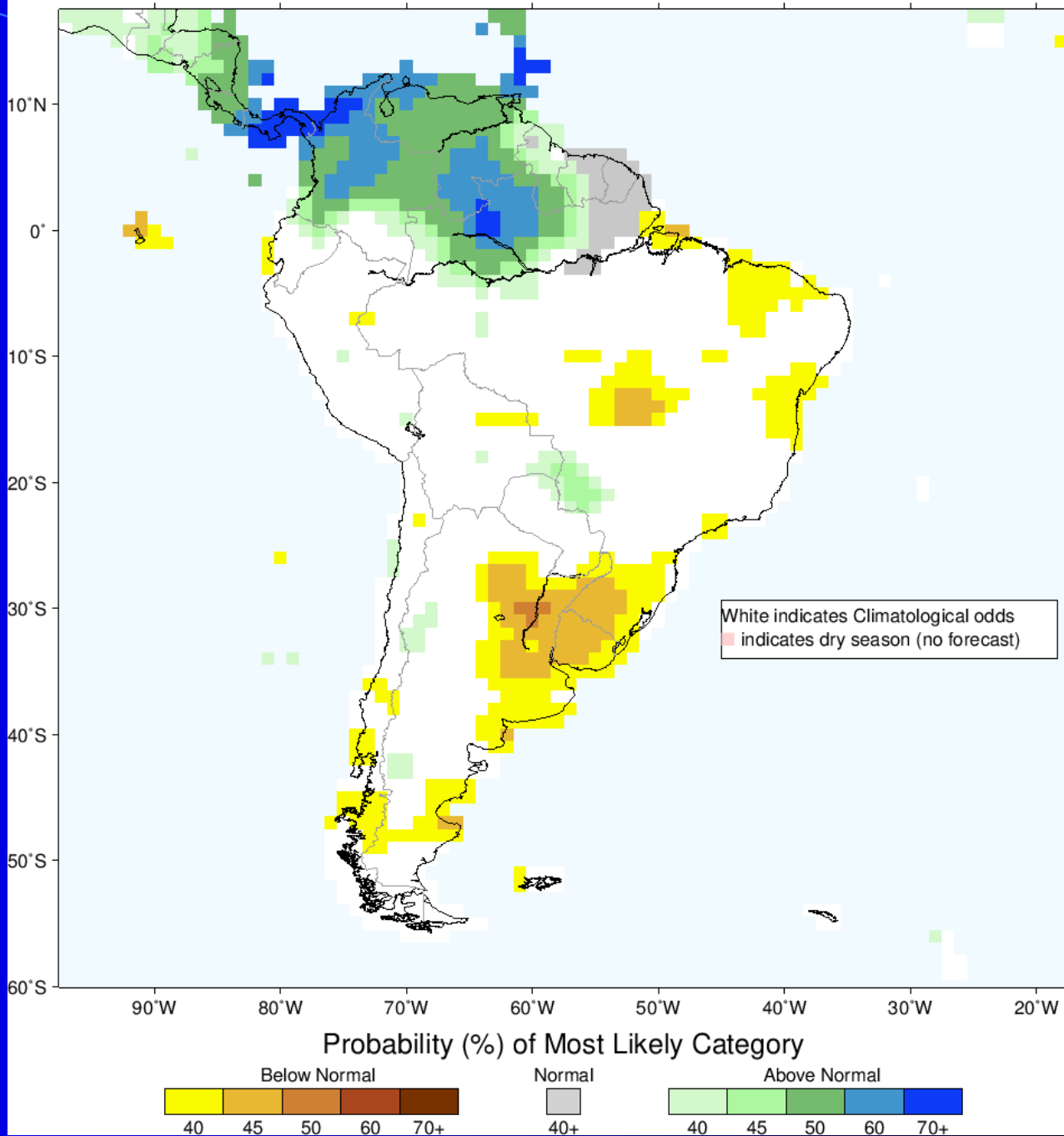
Fonte: IRI



IRI Multi-Model Probability Forecast for Precipitation for December–January–February 2025, Issued August 2024

Dez/Jan/Fev25

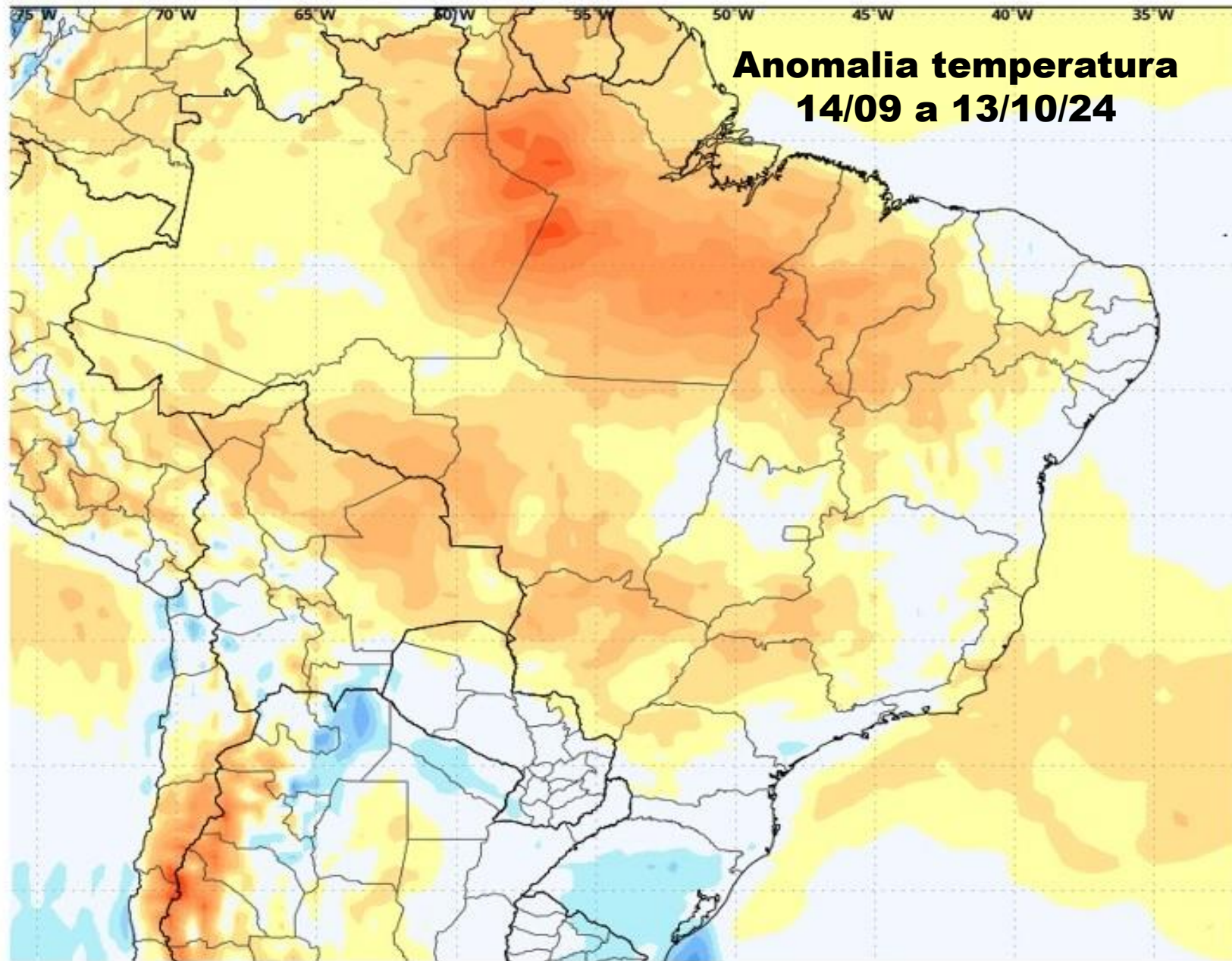
Fonte: IRI



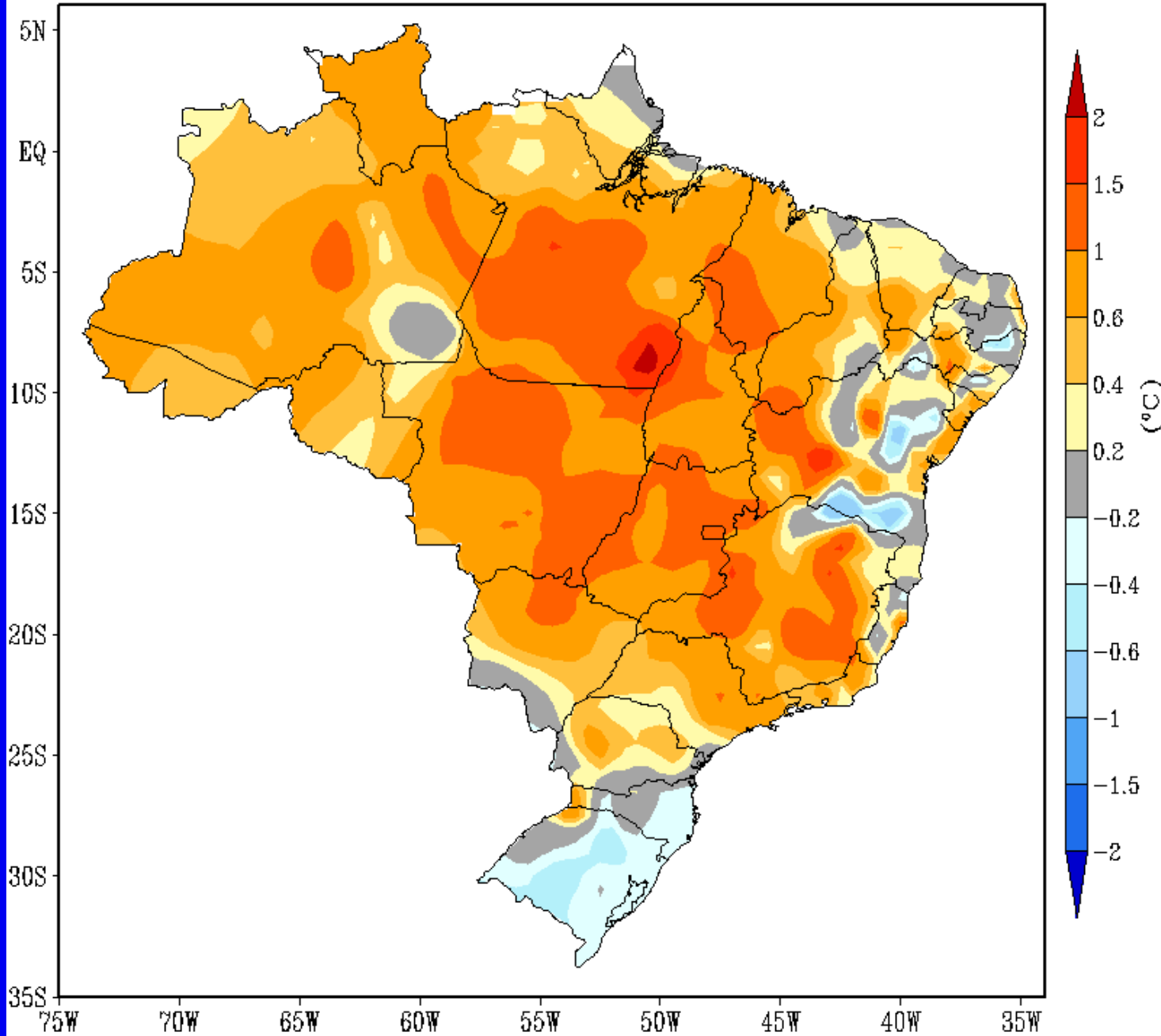
Temperatura Tendência



ANOMALIA/TEMPERATURA DE 14/9/24 a 13/10/2024



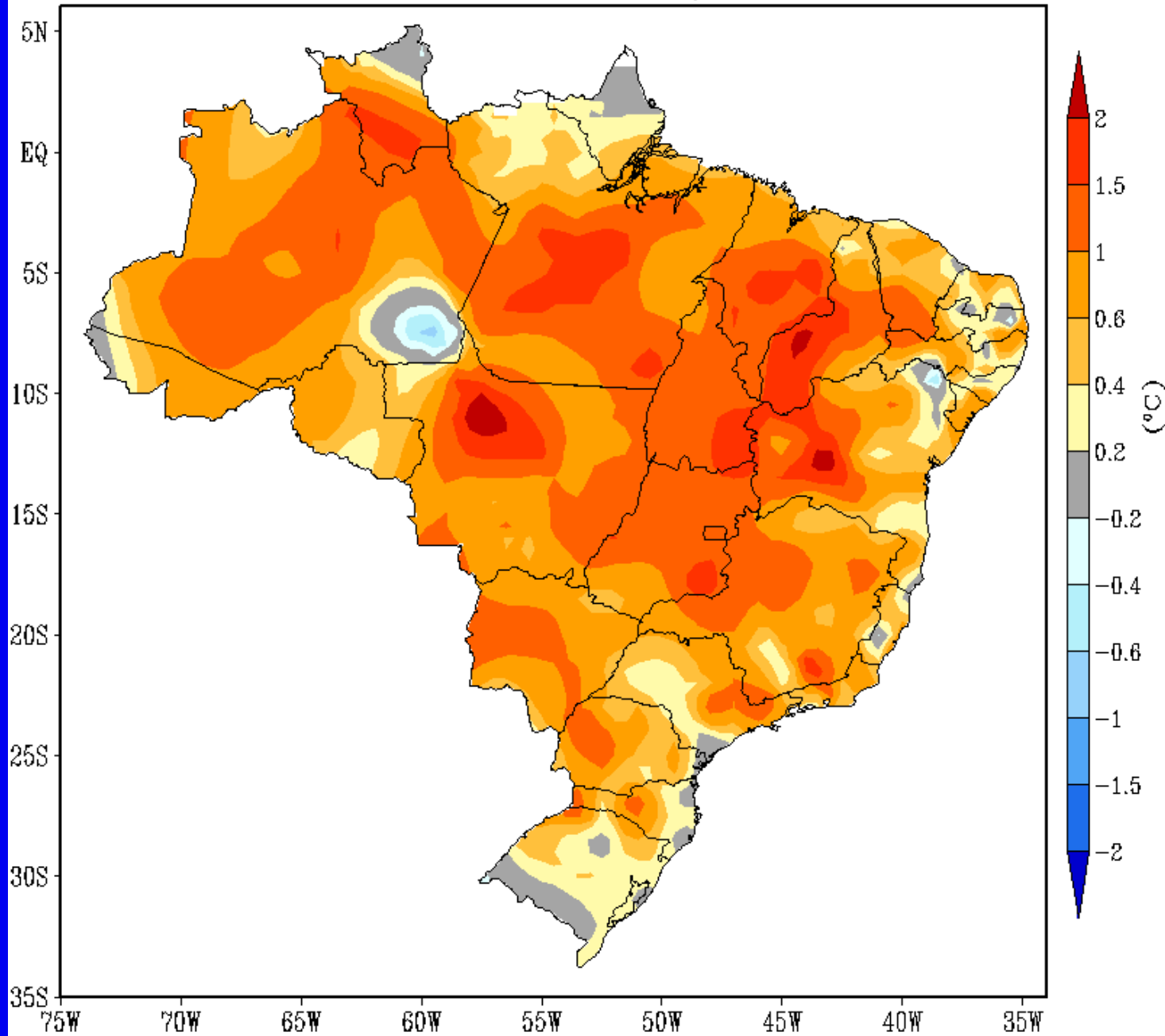
PREVISÃO DE ANOMALIAS DE TEMPERATURA (°C)
ATUALIZAÇÃO - JULHO/2024
VALIDO PARA SETEMBRO/2024



Set/24

Fonte: Inmet

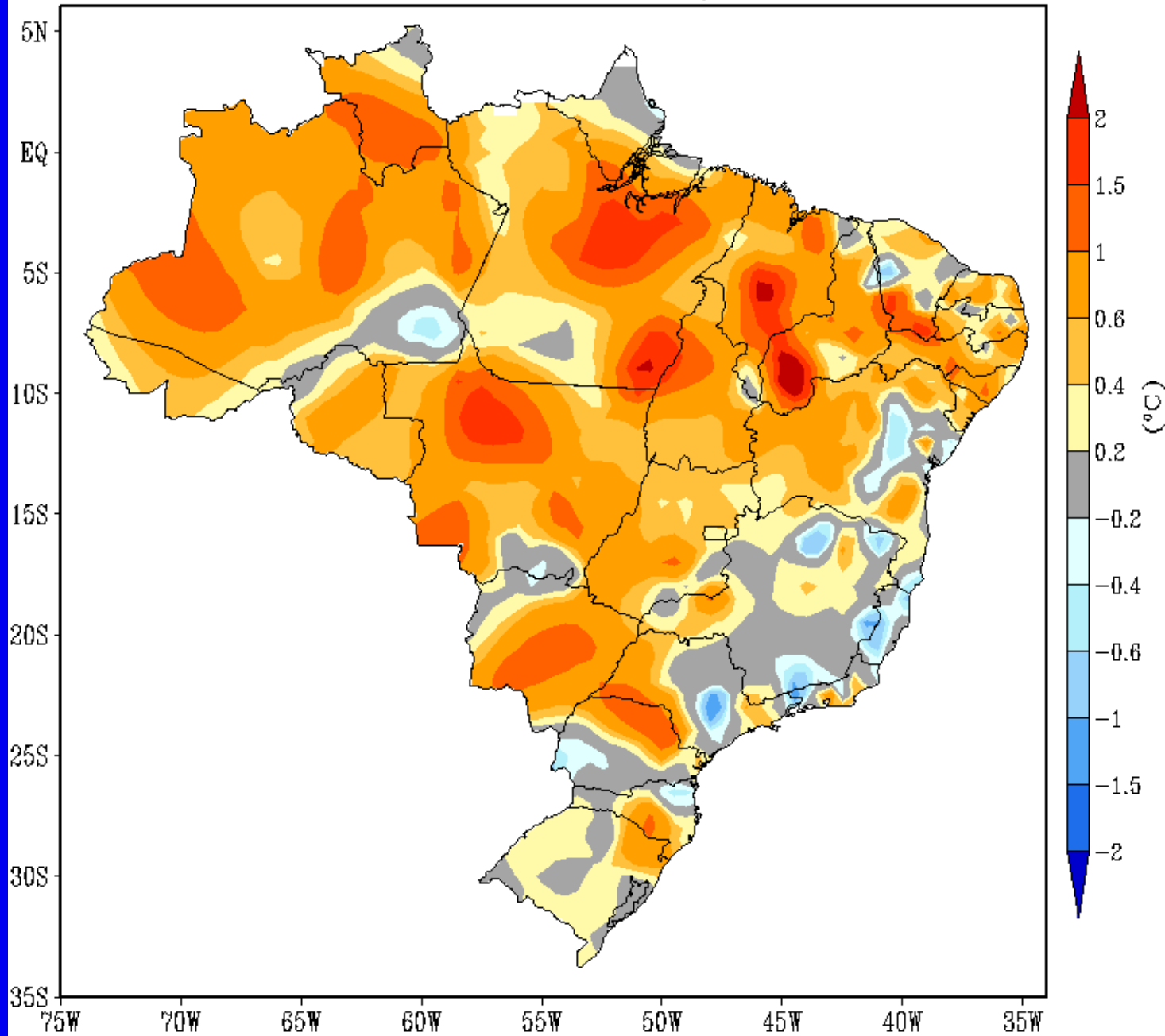
PREVISÃO DE ANOMALIAS DE TEMPERATURA (°C)
ATUALIZACAO - JULHO/2024
VALIDO PARA OUTUBRO/2024



Out/24

Fonte: Inmet

PREVISÃO DE ANOMALIAS DE TEMPERATURA (°C)
ATUALIZACAO - AGOSTO/2024
VALIDO PARA NOVEMBRO/2024



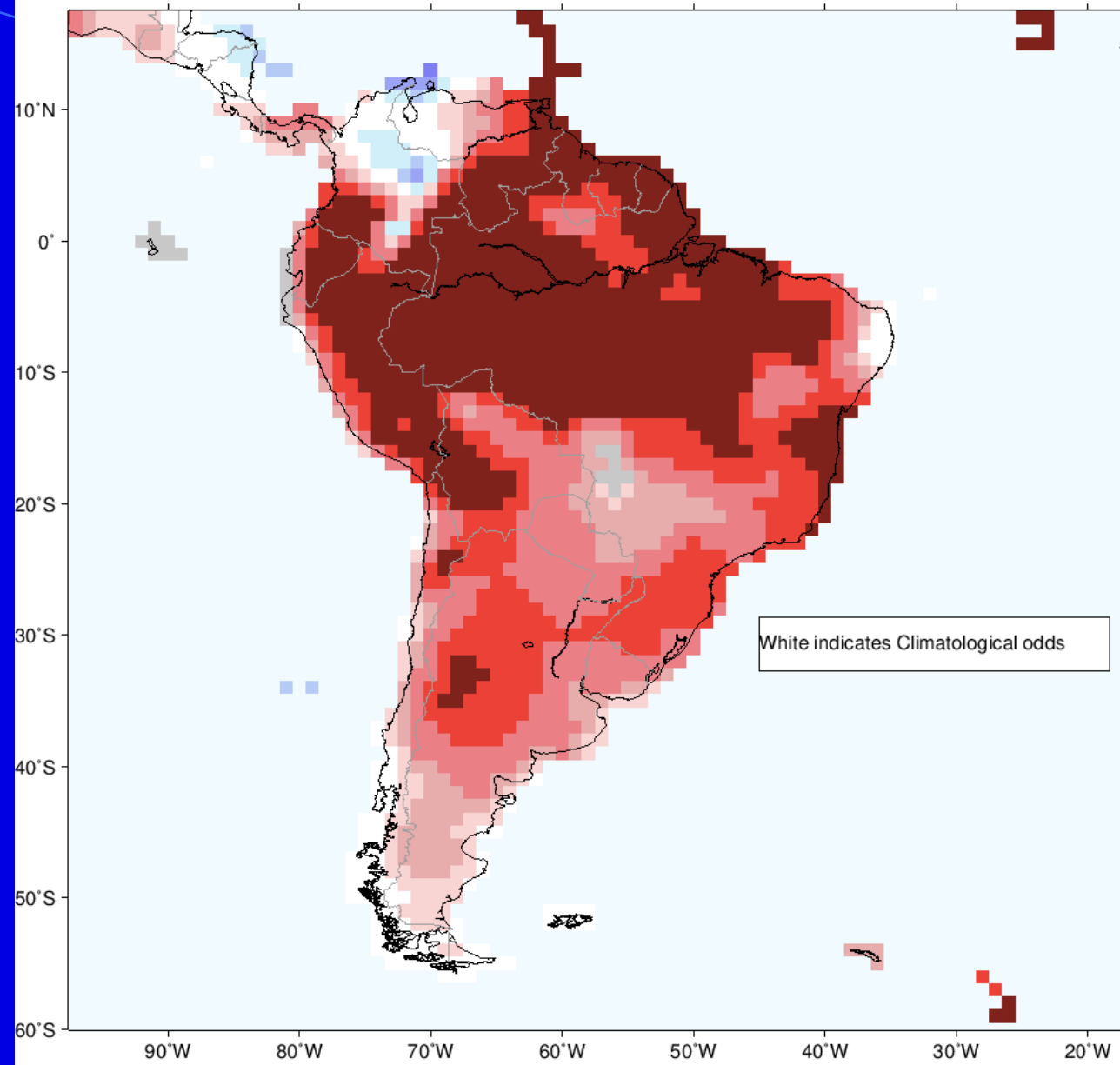
Nov/24

Fonte: Inmet

IRI Multi-Model Probability Forecast for Temperature for September–October–November 2024, Issued July 2024

Set/Out/Nov/24

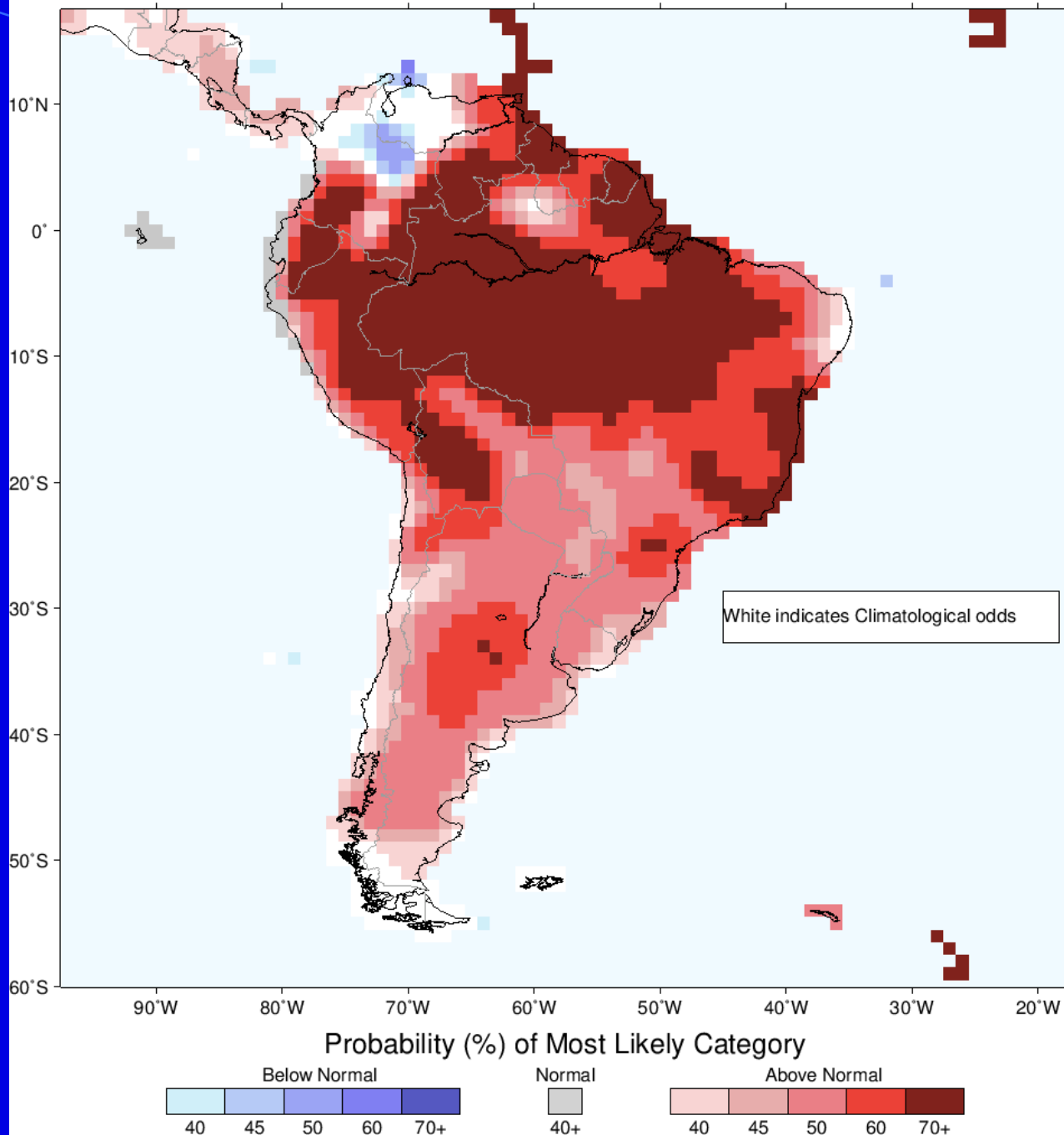
Fonte: IRI



IRI Multi-Model Probability Forecast for Temperature for October–November–December 2024, Issued July 2024

Out/Nov/Dez24

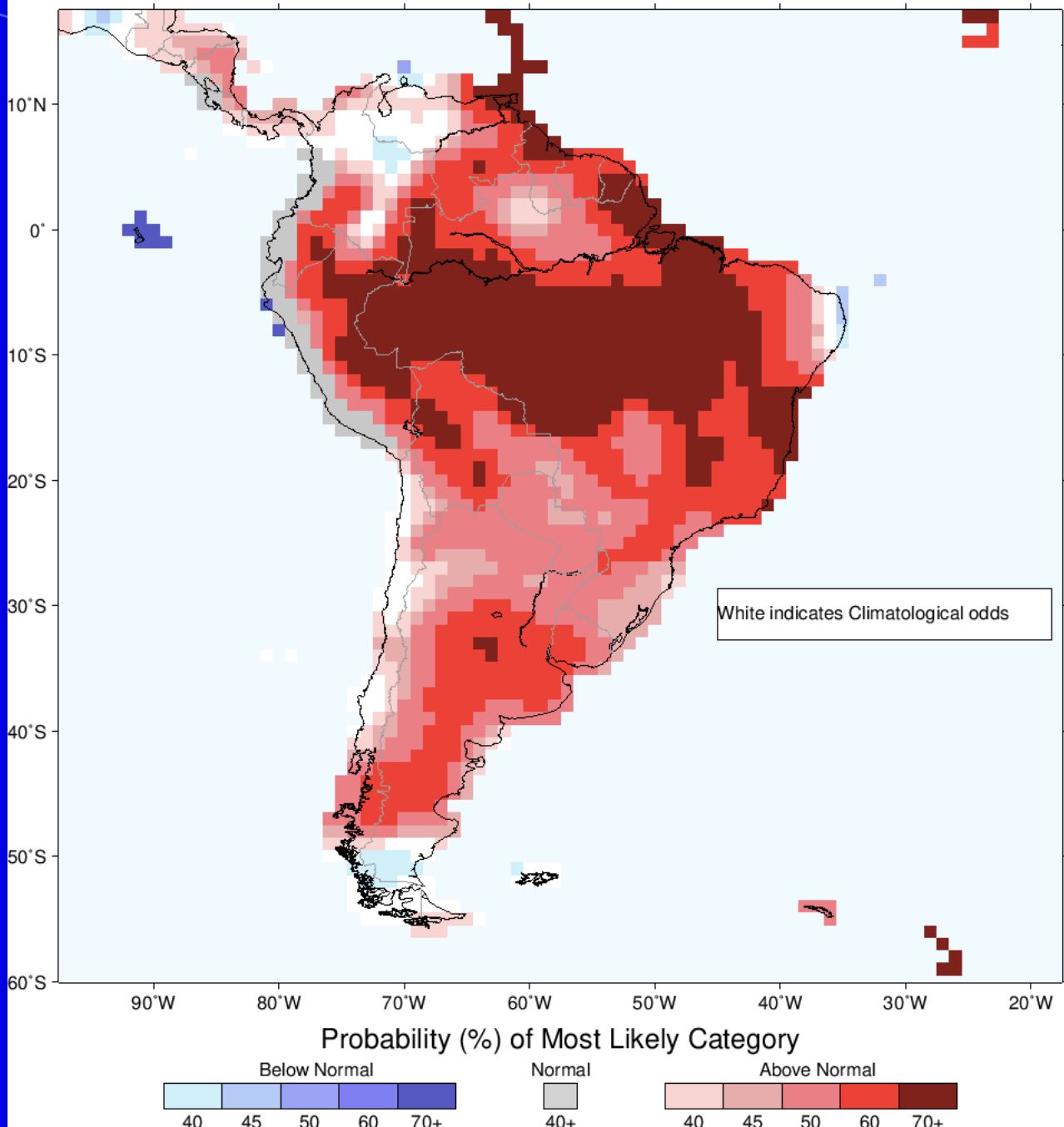
Fonte: IRI



IRI Multi-Model Probability Forecast for Temperature for November–December–January 2025, Issued July 2024

Nov/Dez/Jan25

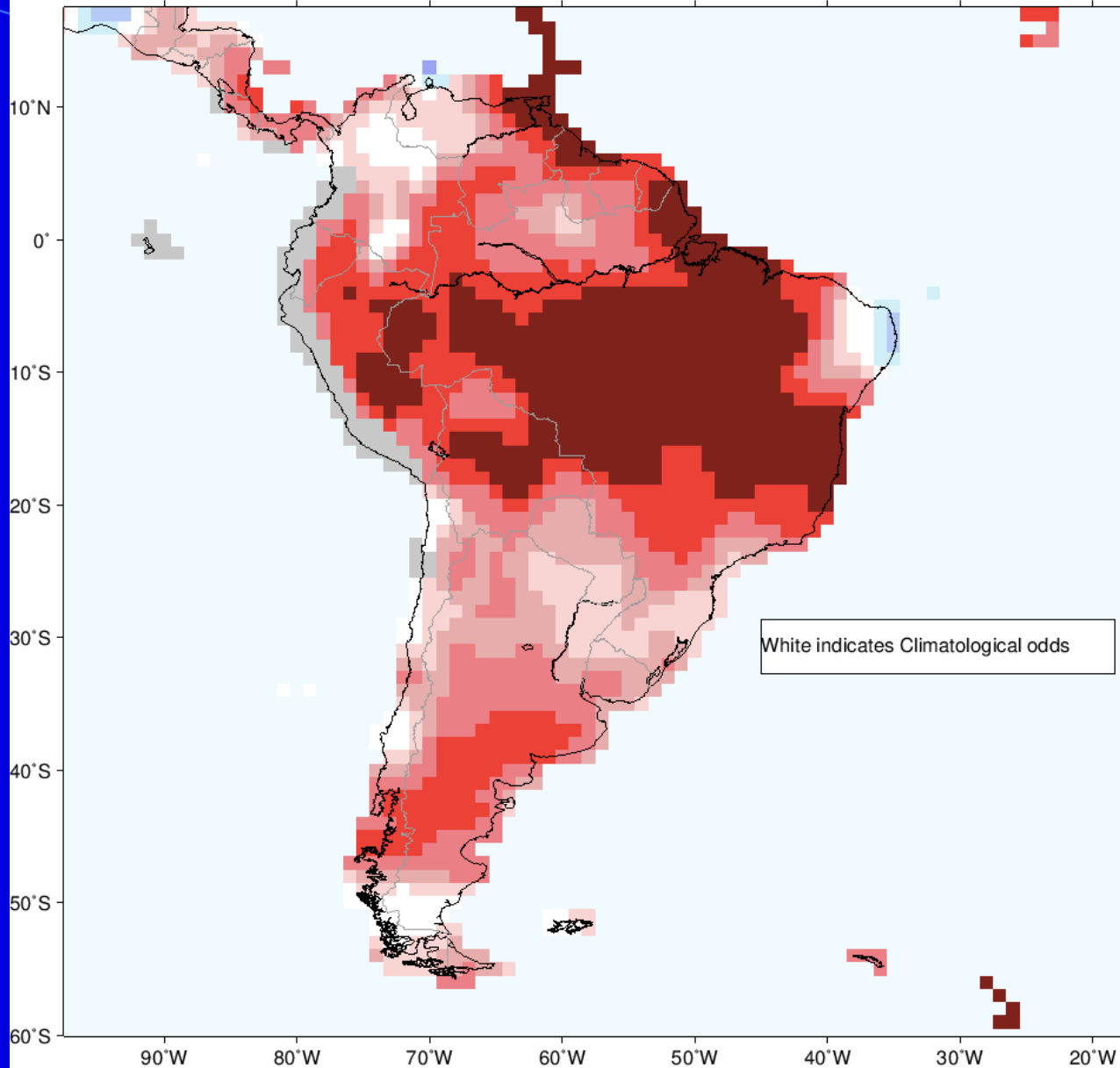
Fonte: IRI



IRI Multi-Model Probability Forecast for Temperature for December–January–February 2025, Issued August 2024

Dez/Jan/Fev25

Fonte: IRI



Fenômenos Climáticos

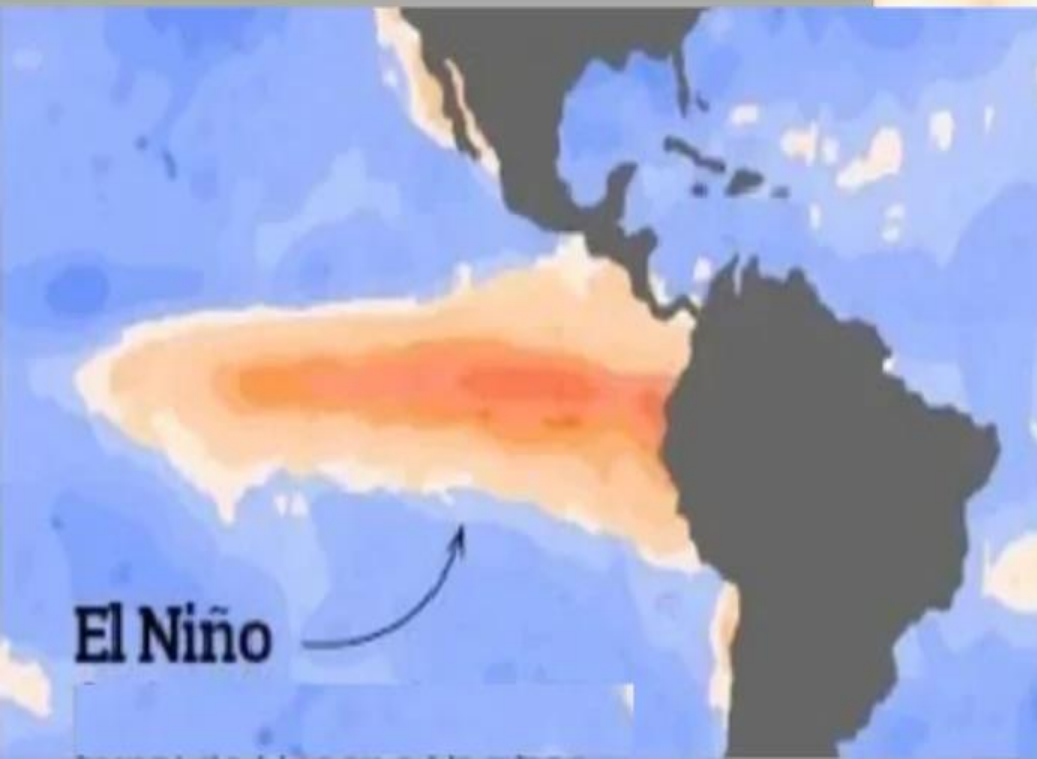
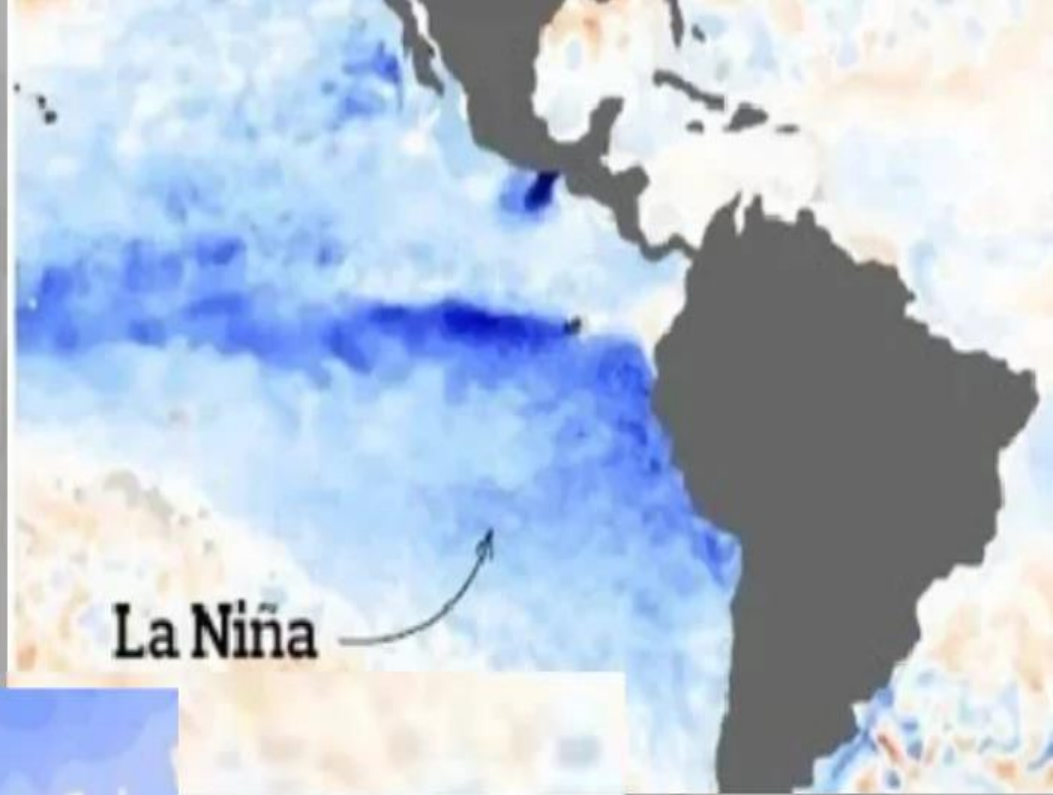
El Niño

La Niña



EL NIÑO

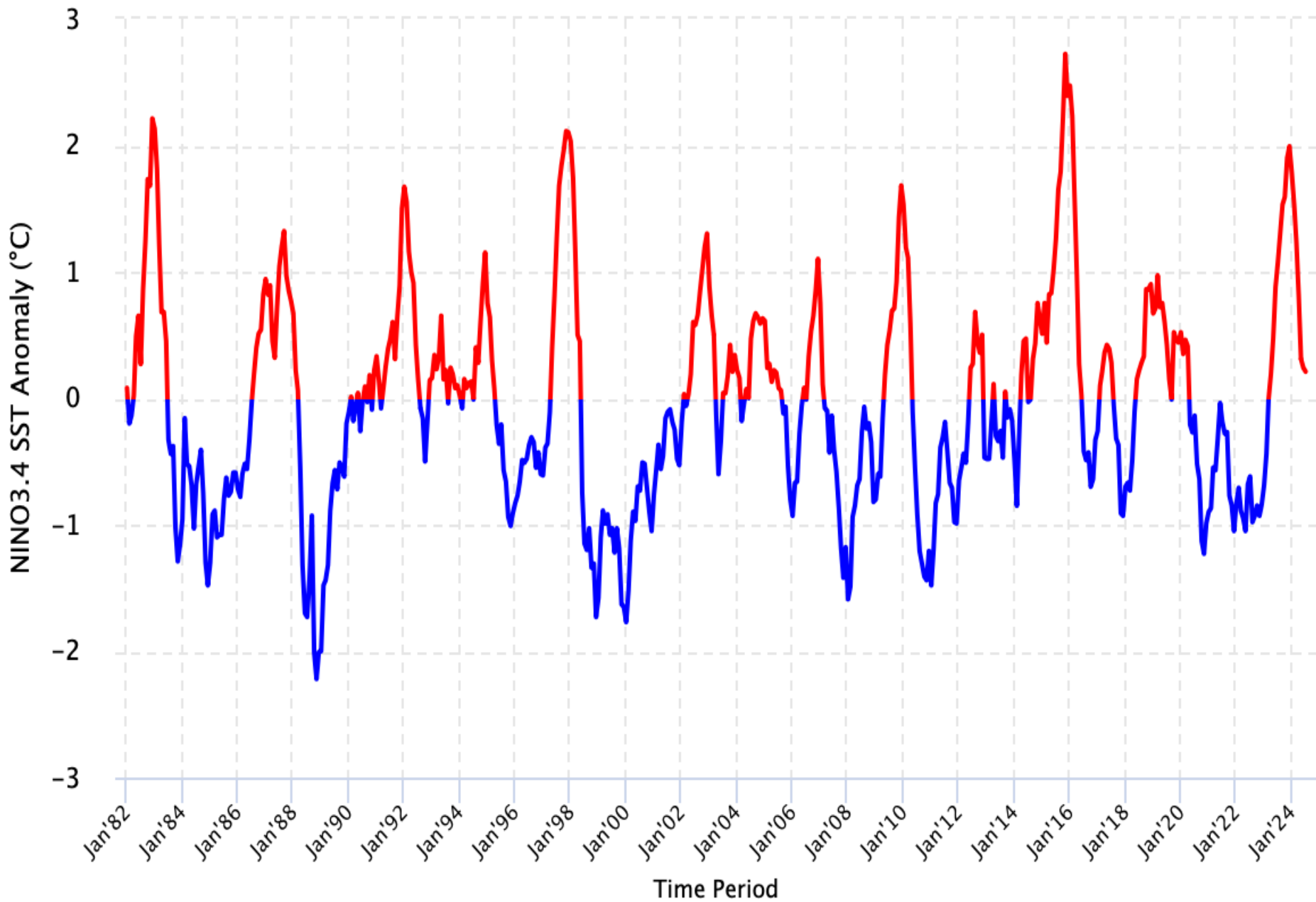
Aquecimento do Oceano Pacífico Equatorial

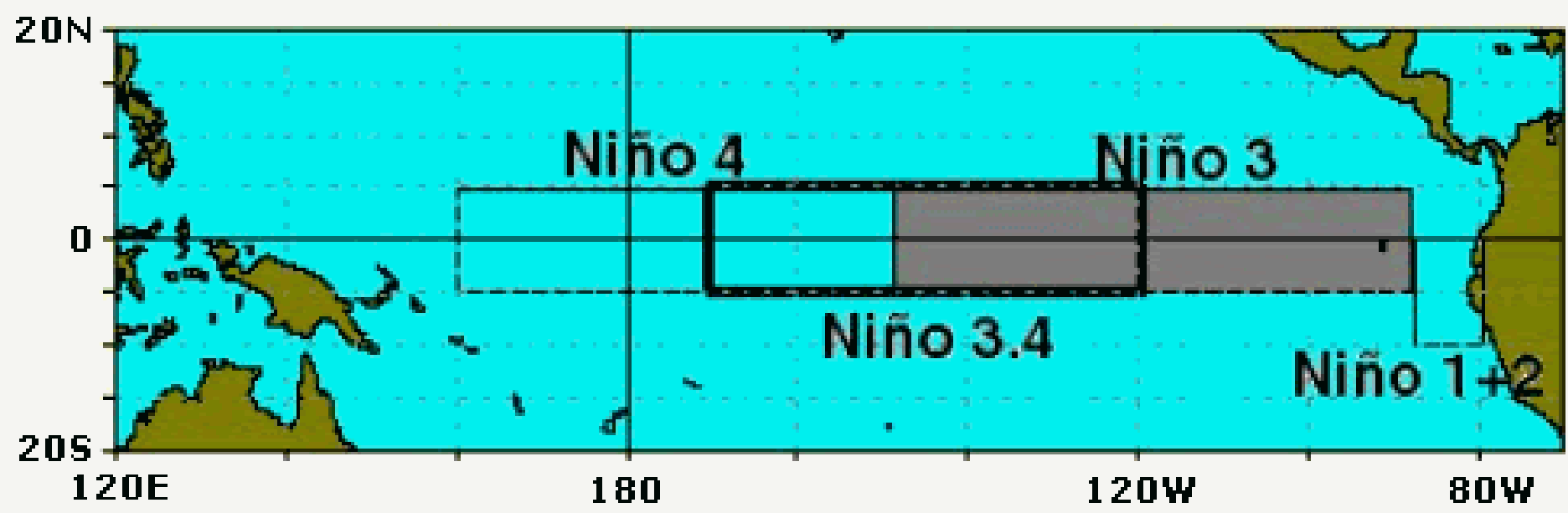


LA NIÑA

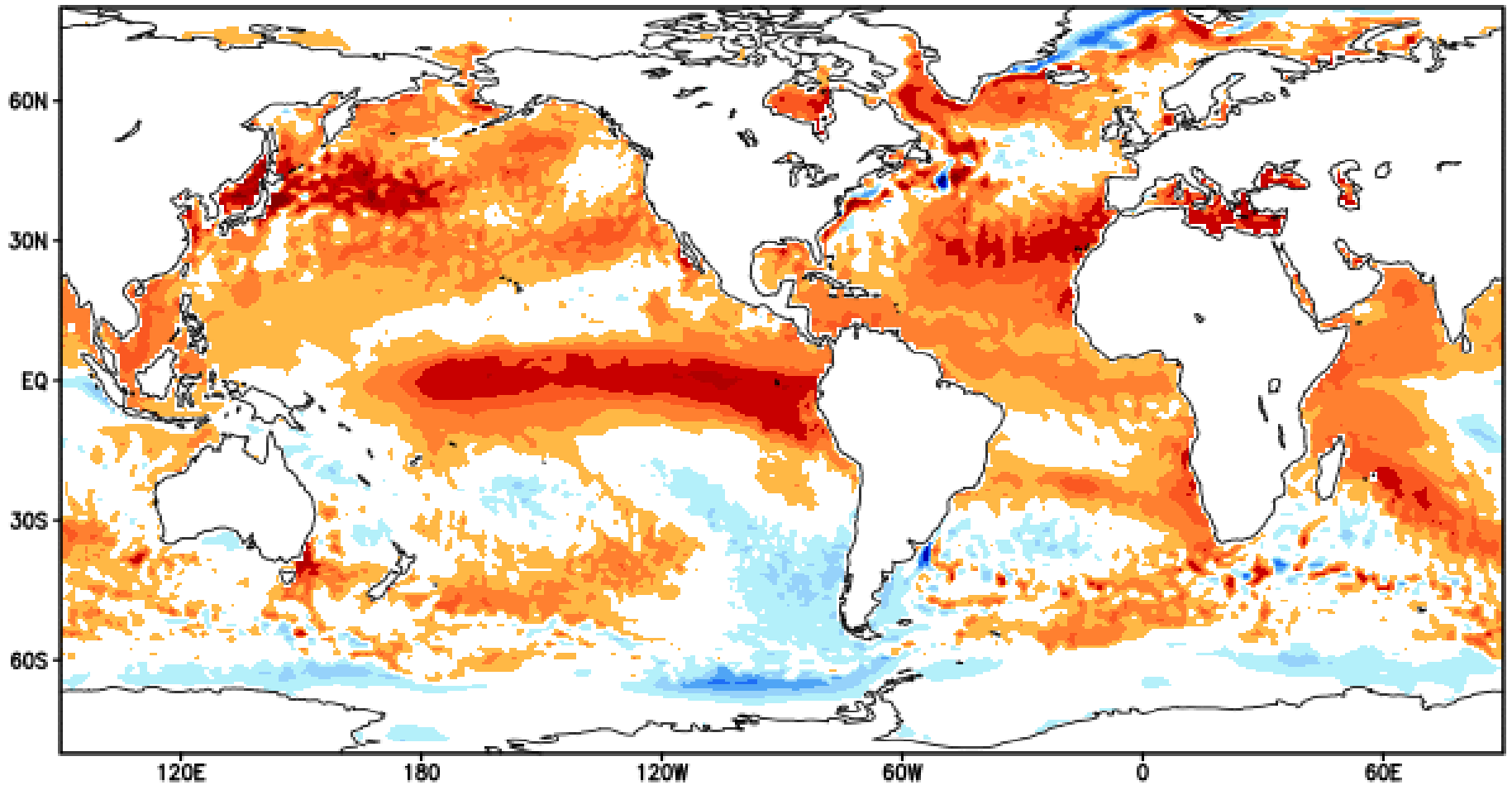
Resfriamento do Oceano Pacífico Equatorial

Historical Nino 3.4 Sea Surface Temperature Anomaly





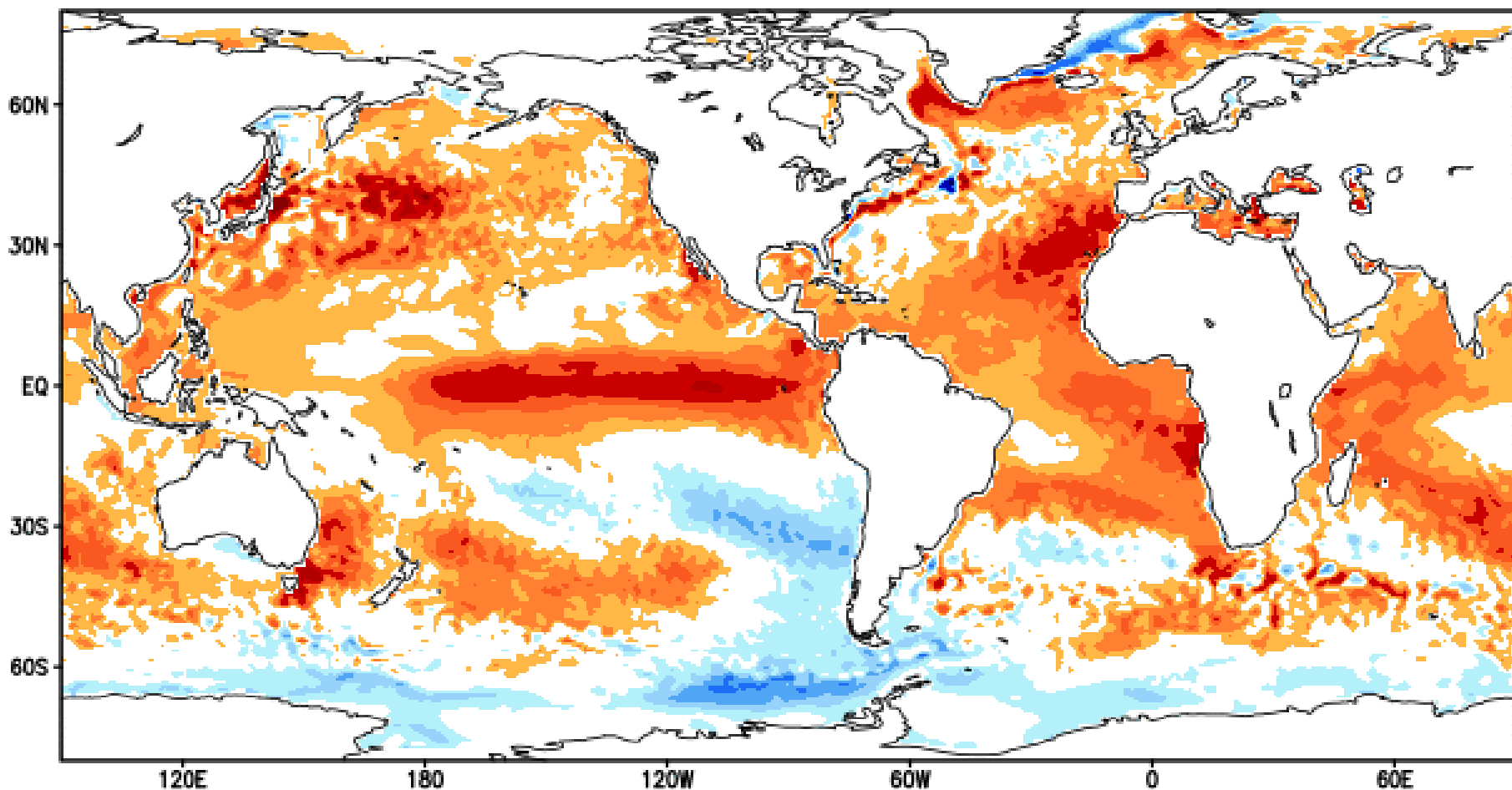
Anomalia de Temperatura da Superfície do Mar NOV2023



graus C



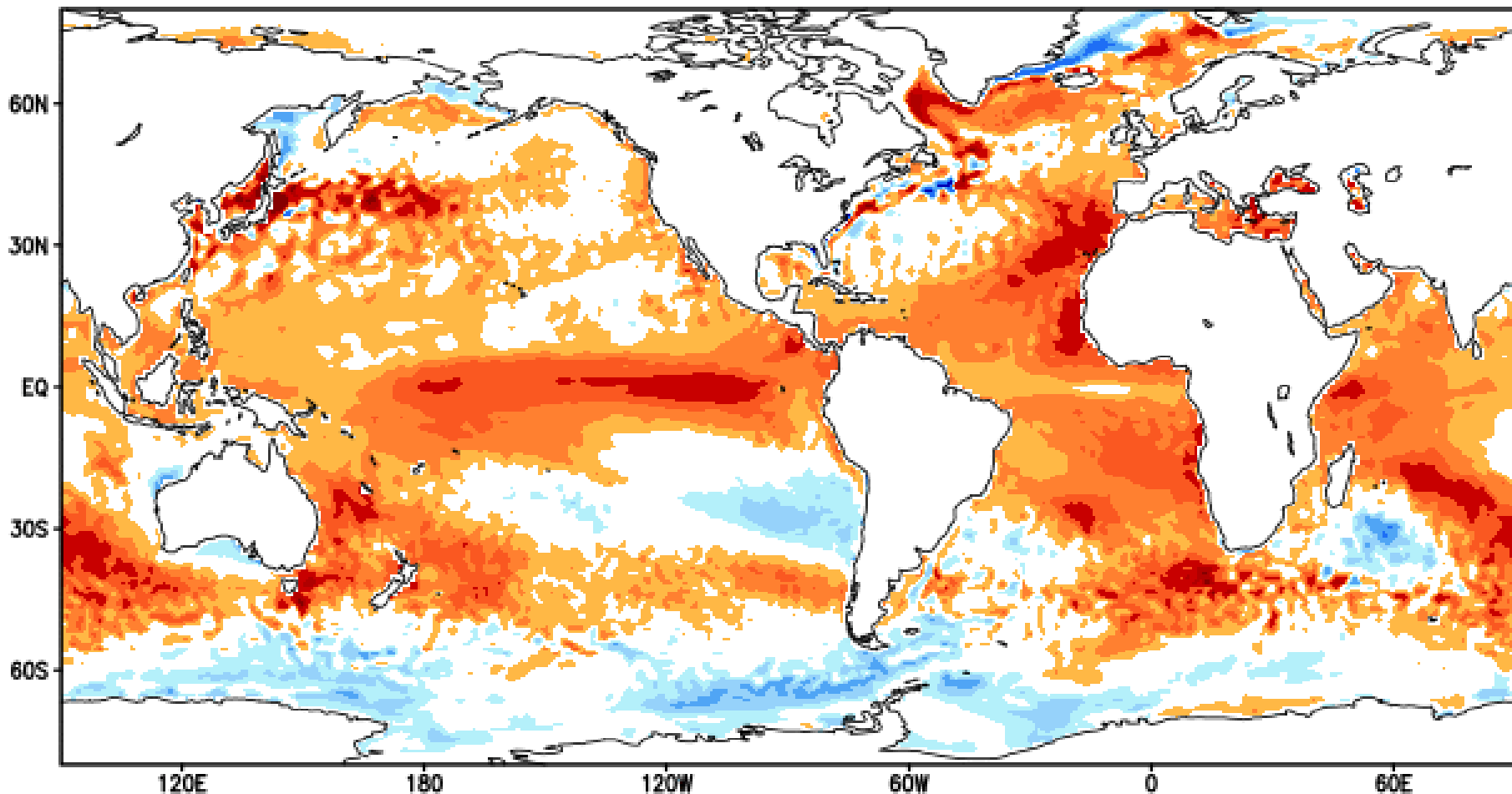
Anomalia de Temperatura da Superfície do Mar DEC2023



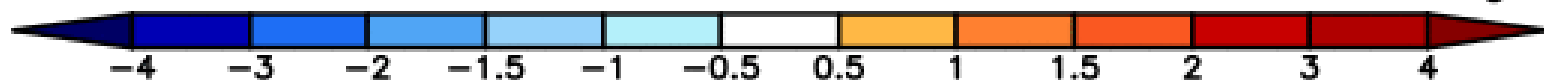
graus C



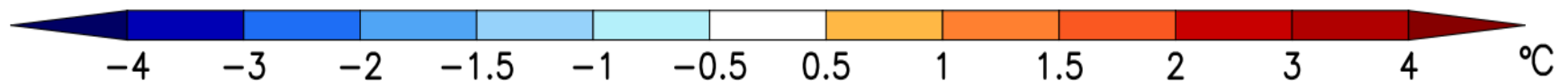
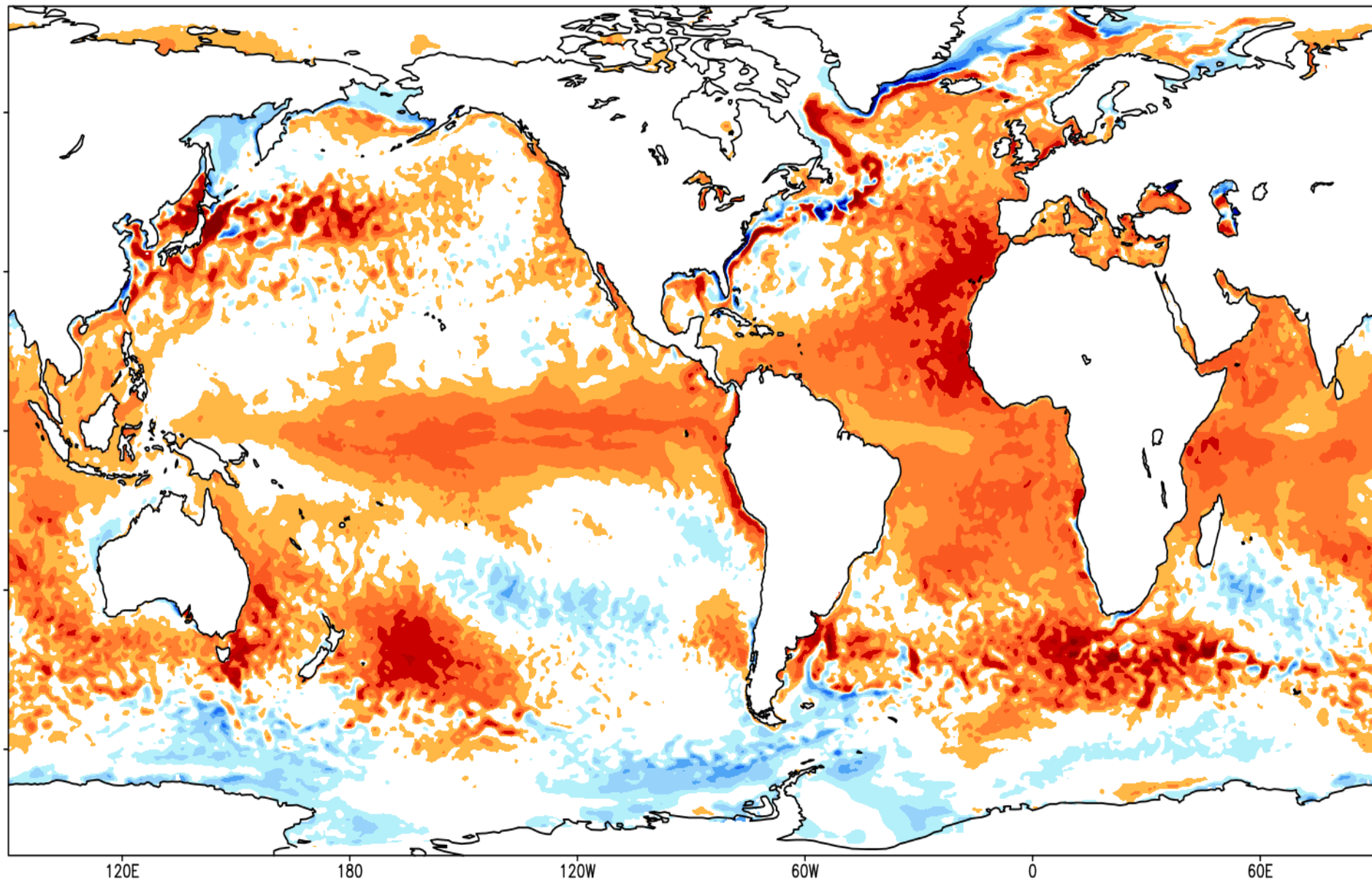
Anomalia de Temperatura da Superfície do Mar JAN2024



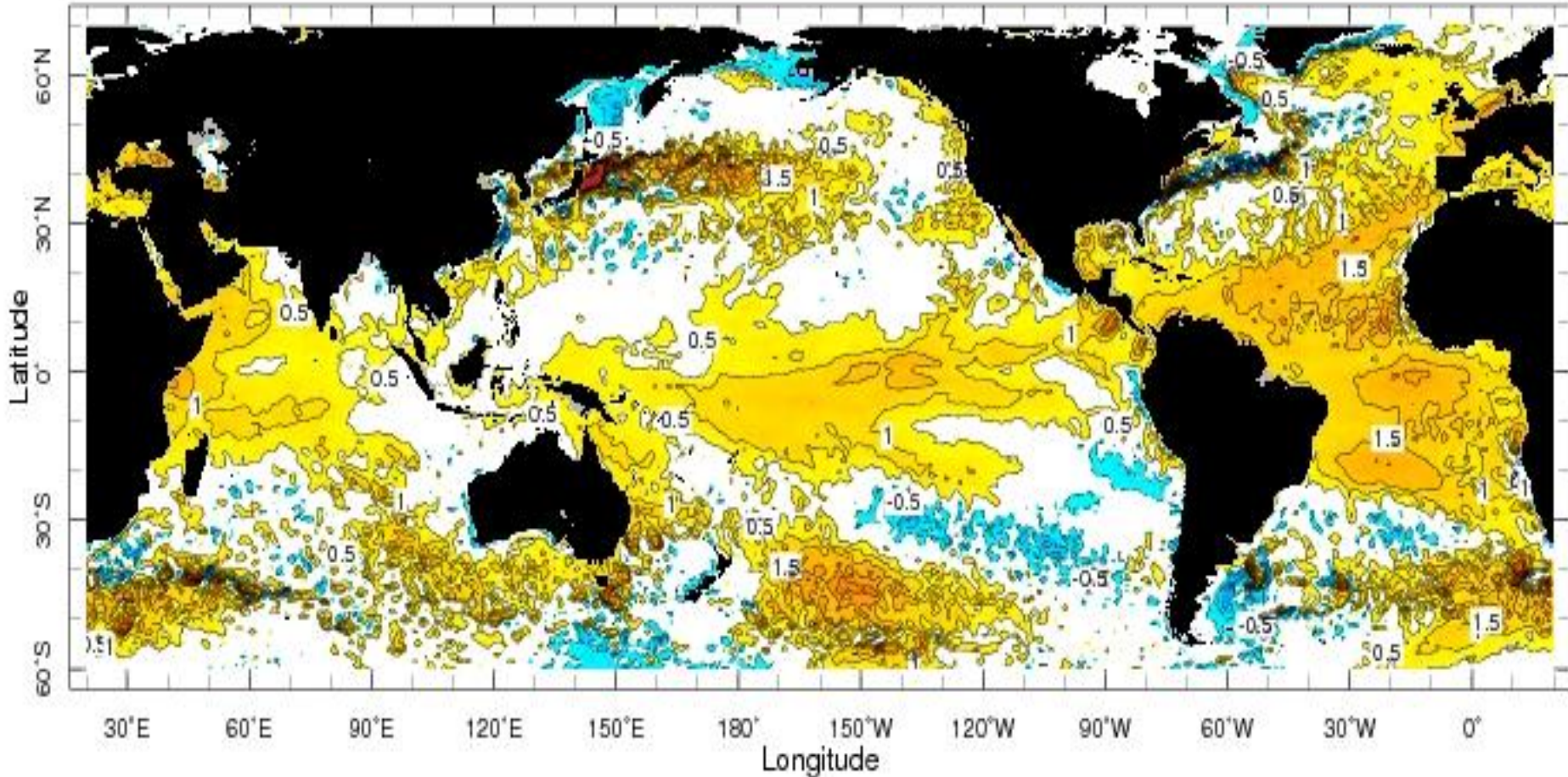
graus C



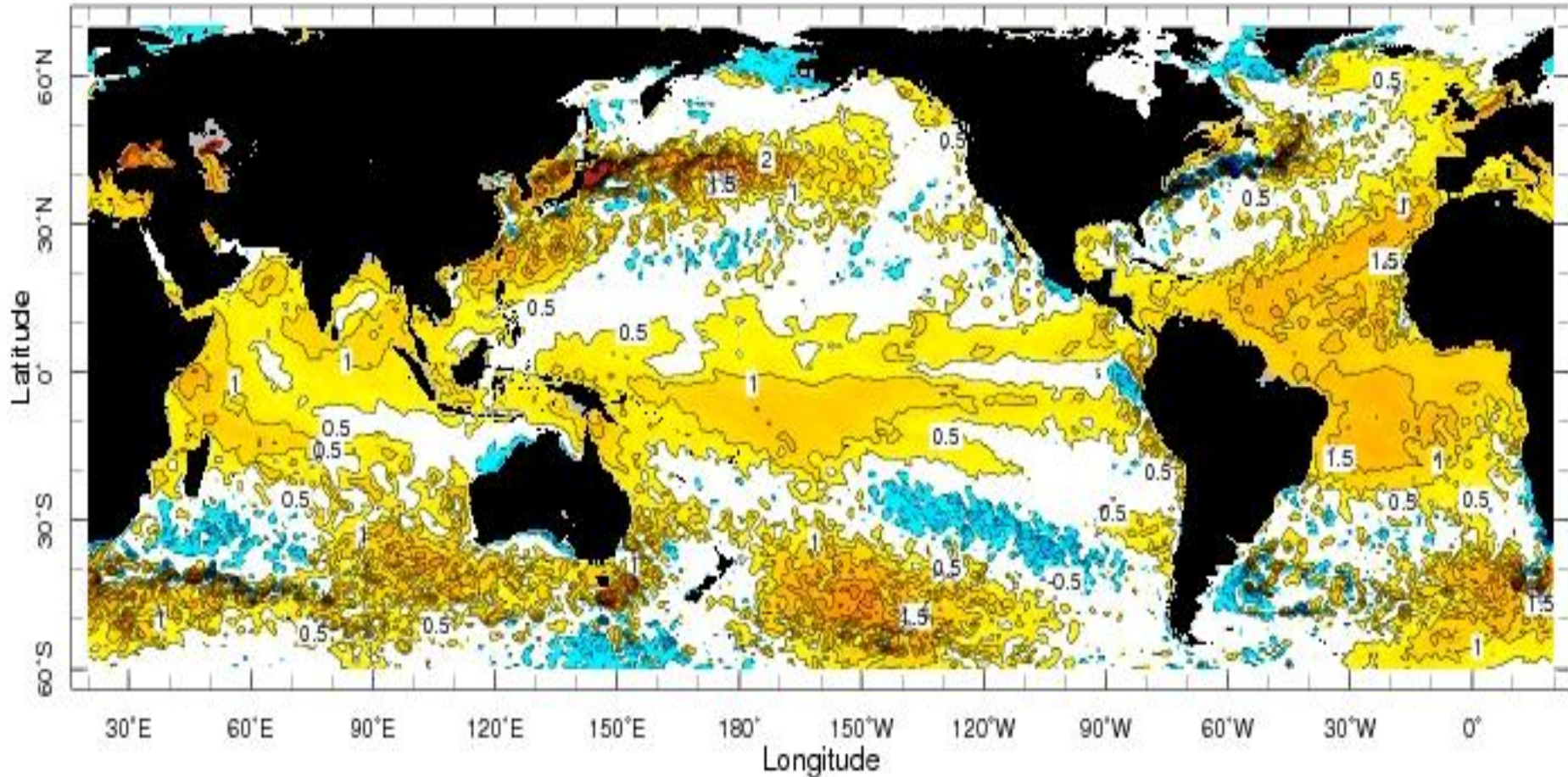
Anomalia da Temperatura da Superfície do Mar: fev/2024



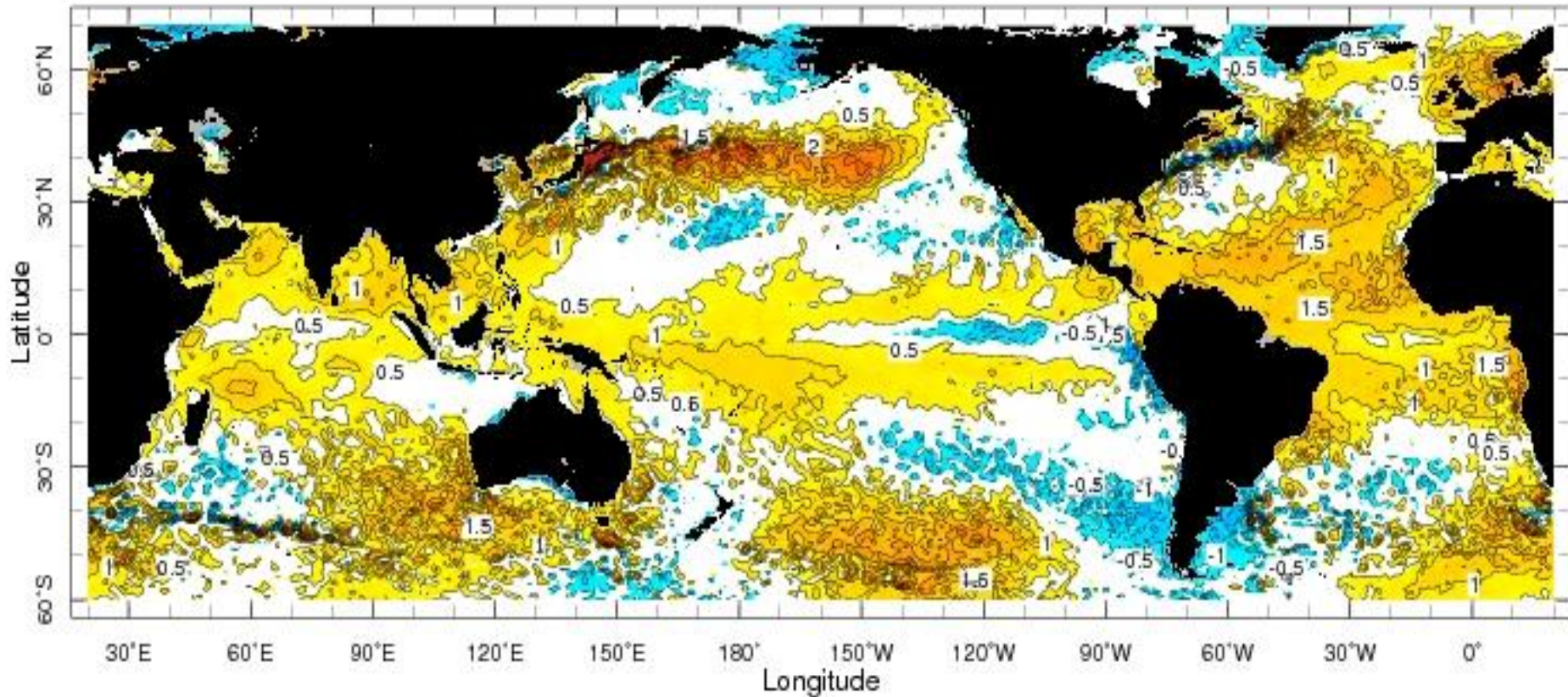
zlev 0.0 meters Time Mar 2024



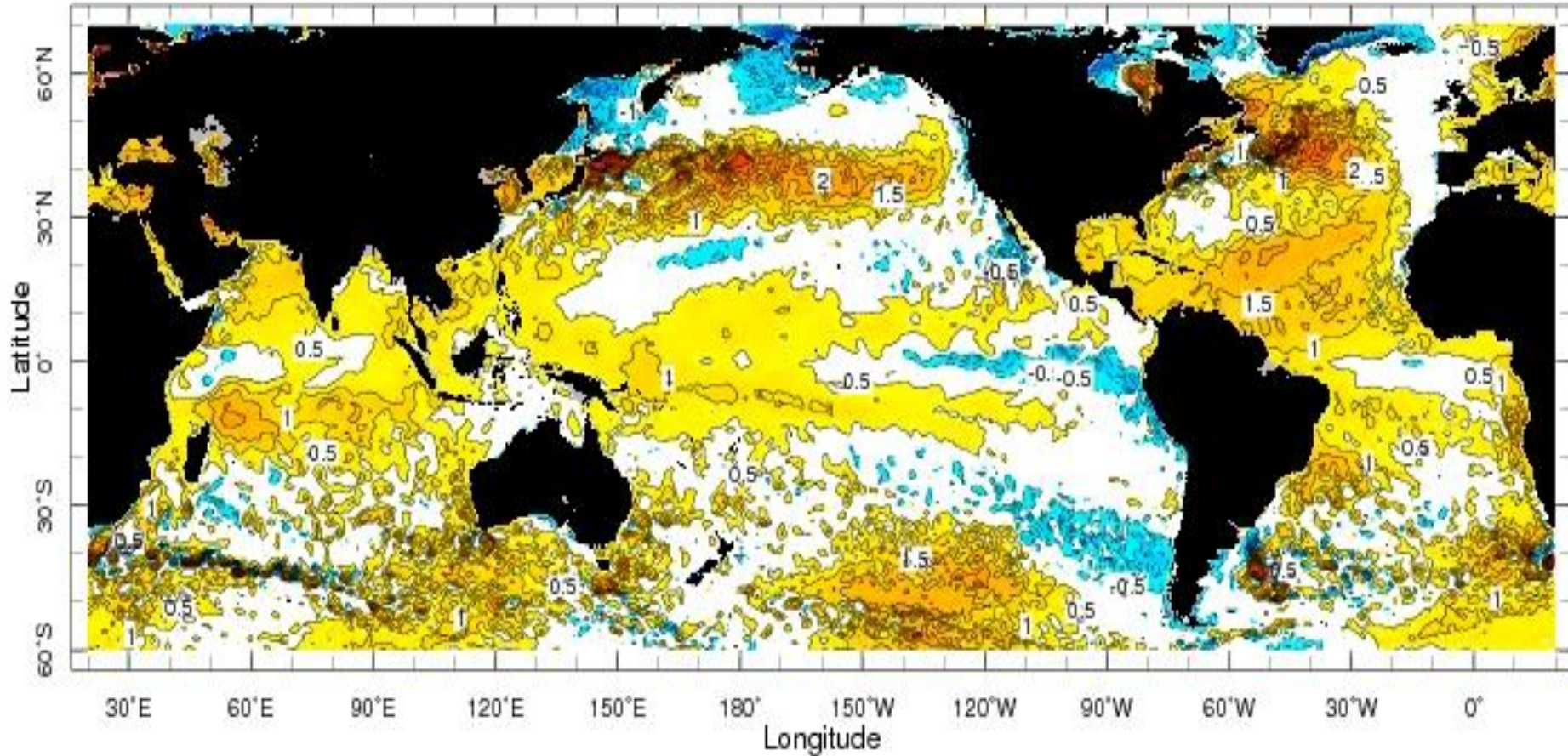
zlev 0.0 meters Time Apr 2024



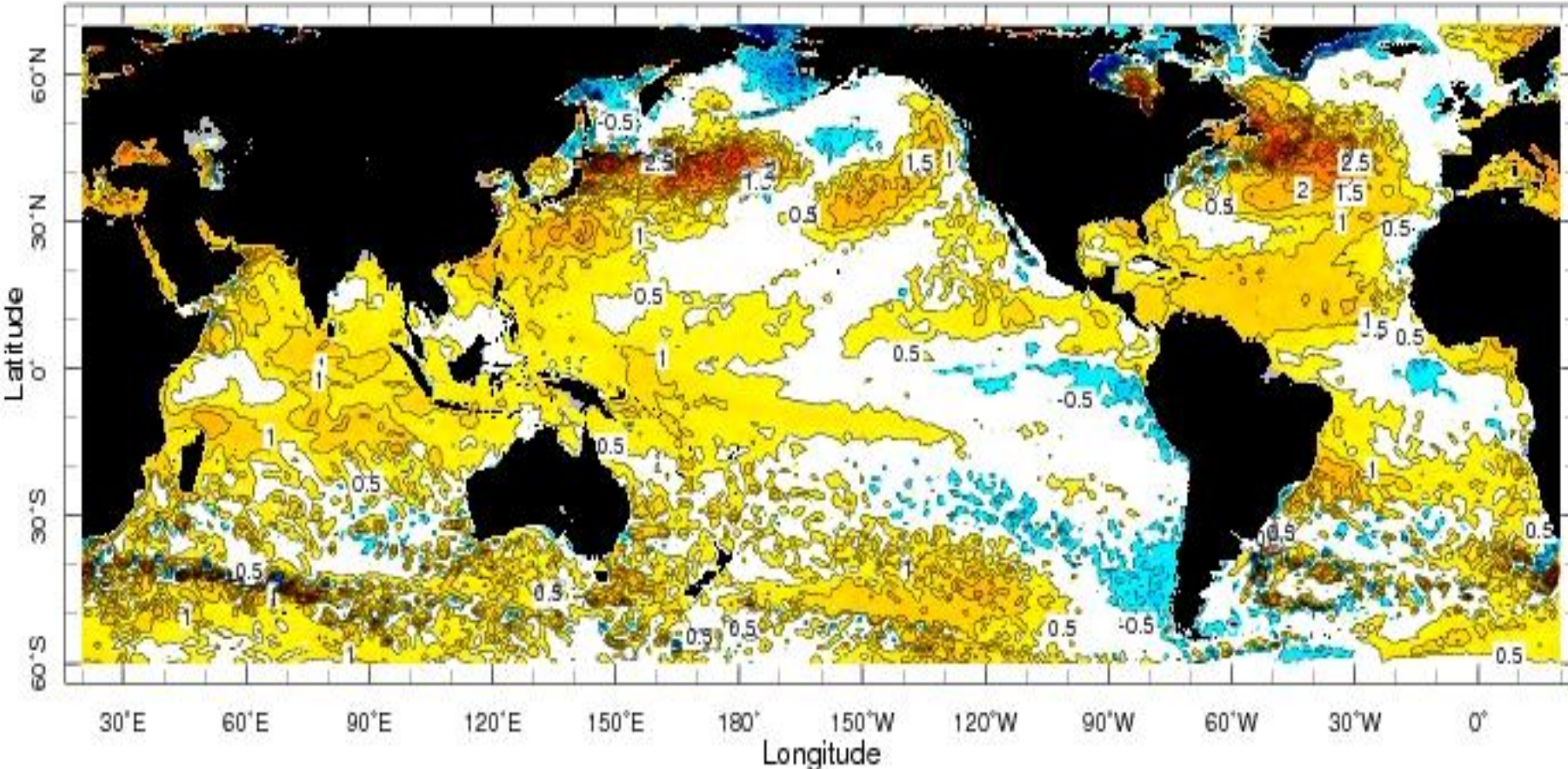
zlev 0.0 meters Time May 2024



zlev 0.0 meters Time Jun 2024

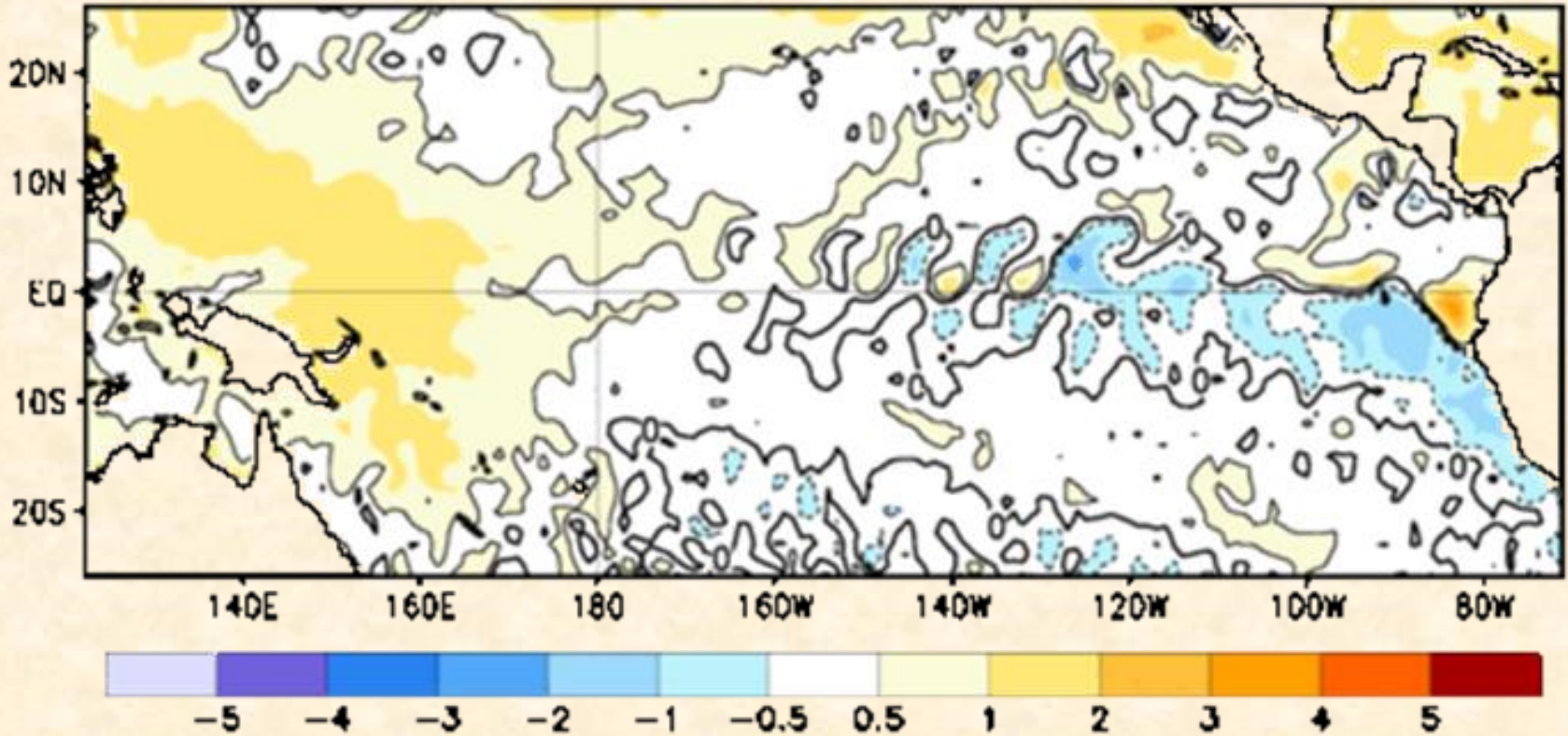


zlev 0.0 meters Time Jul 2024



Semana 18/08 a 24/08/24

Observed Sea Surface Temperature Anomalies (°C)



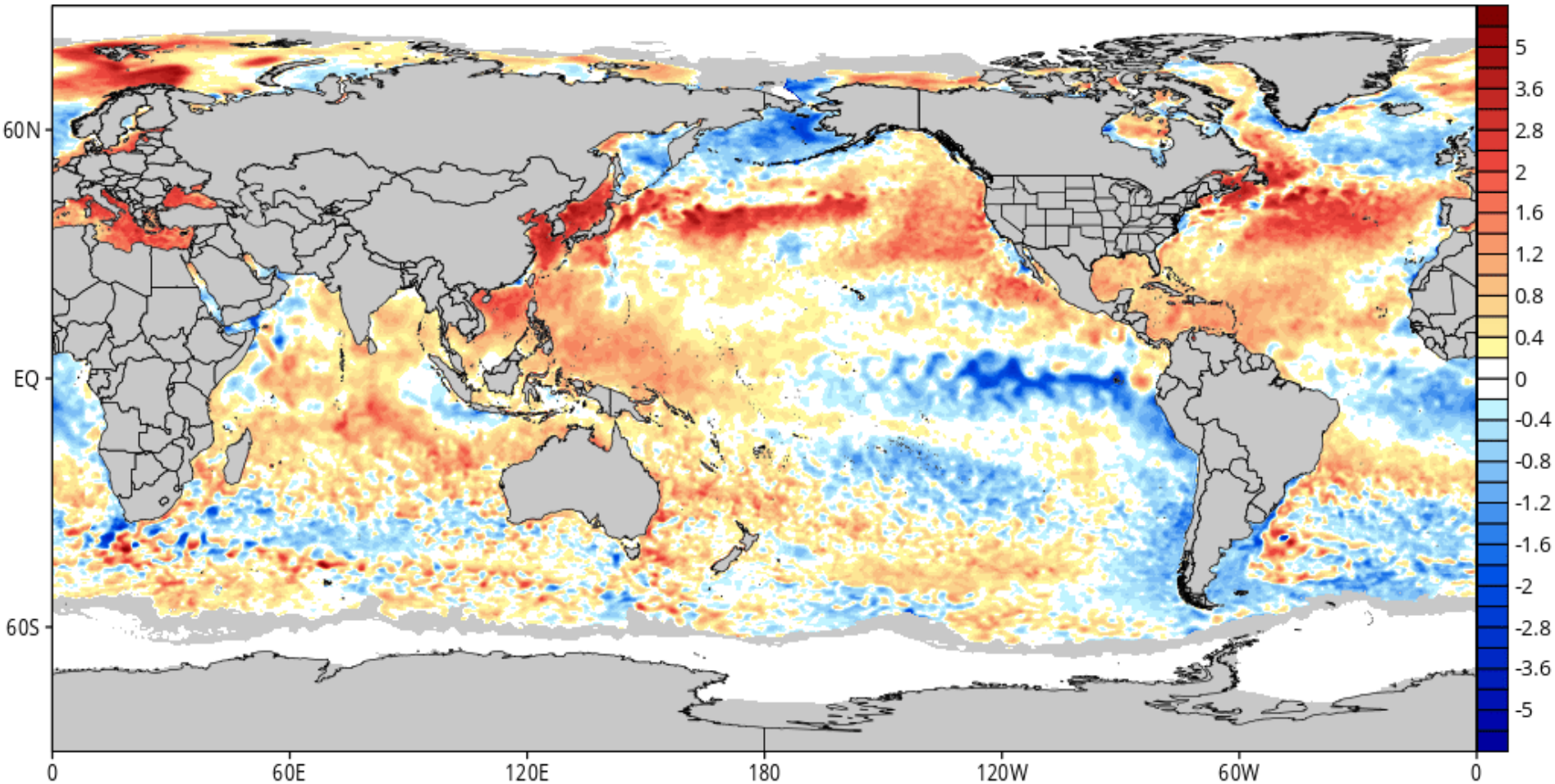
7-day Average Centered on 21 August 2024

29/08/24

CDAS Sea Surface Temperature Anomaly (°C) (based on CFSR 1981-2010 Climatology)

Analysis Time: 12z Aug 29 2024

TROPICALTIDBITS.COM



Prognóstico

El Niño – La Niña



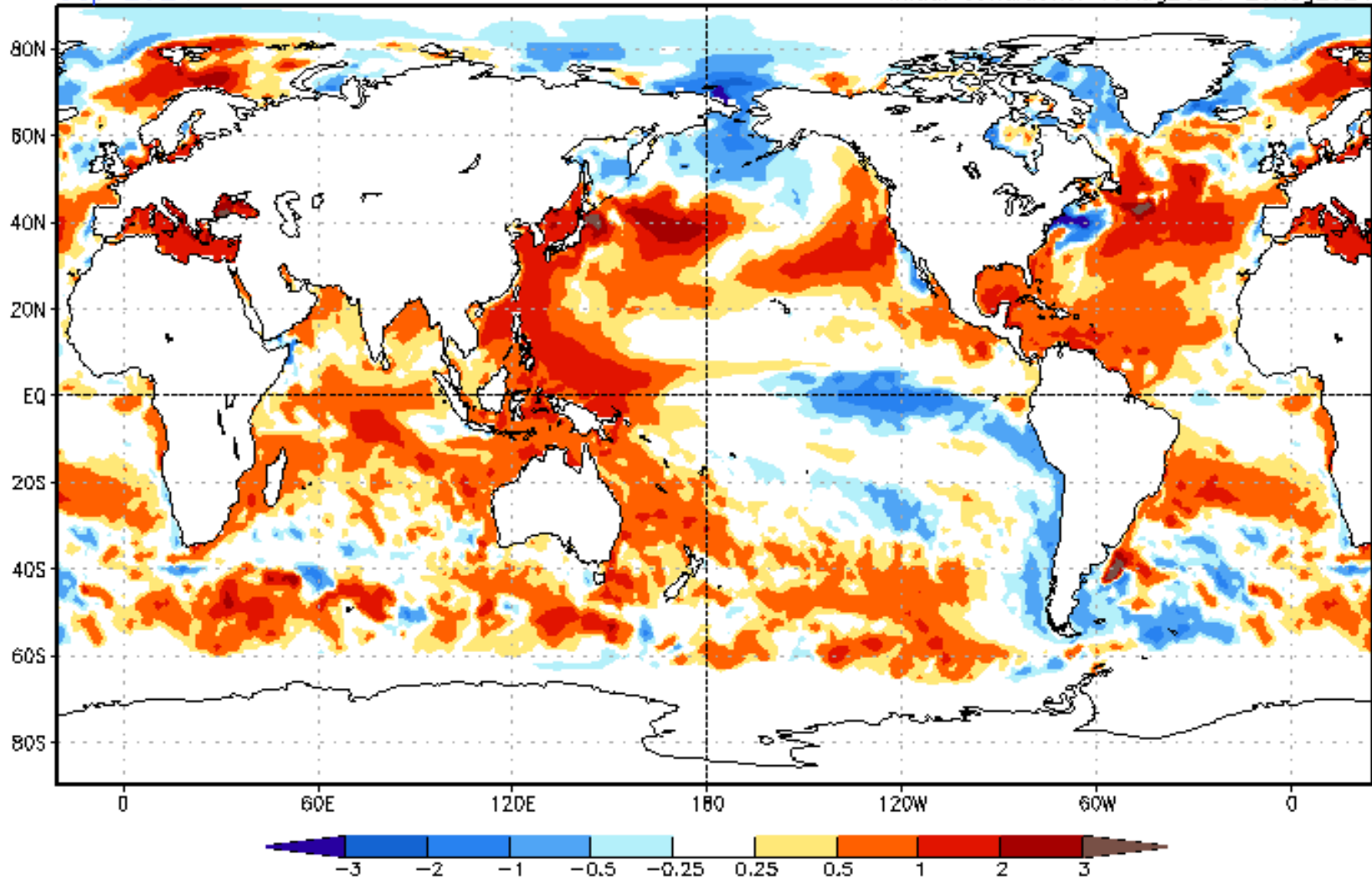


CFSv2 monthly SST anomalies (K)

NWS/NCEP/CPC

Sep 2024

Initial conditions: 19Aug2024-28Aug2024



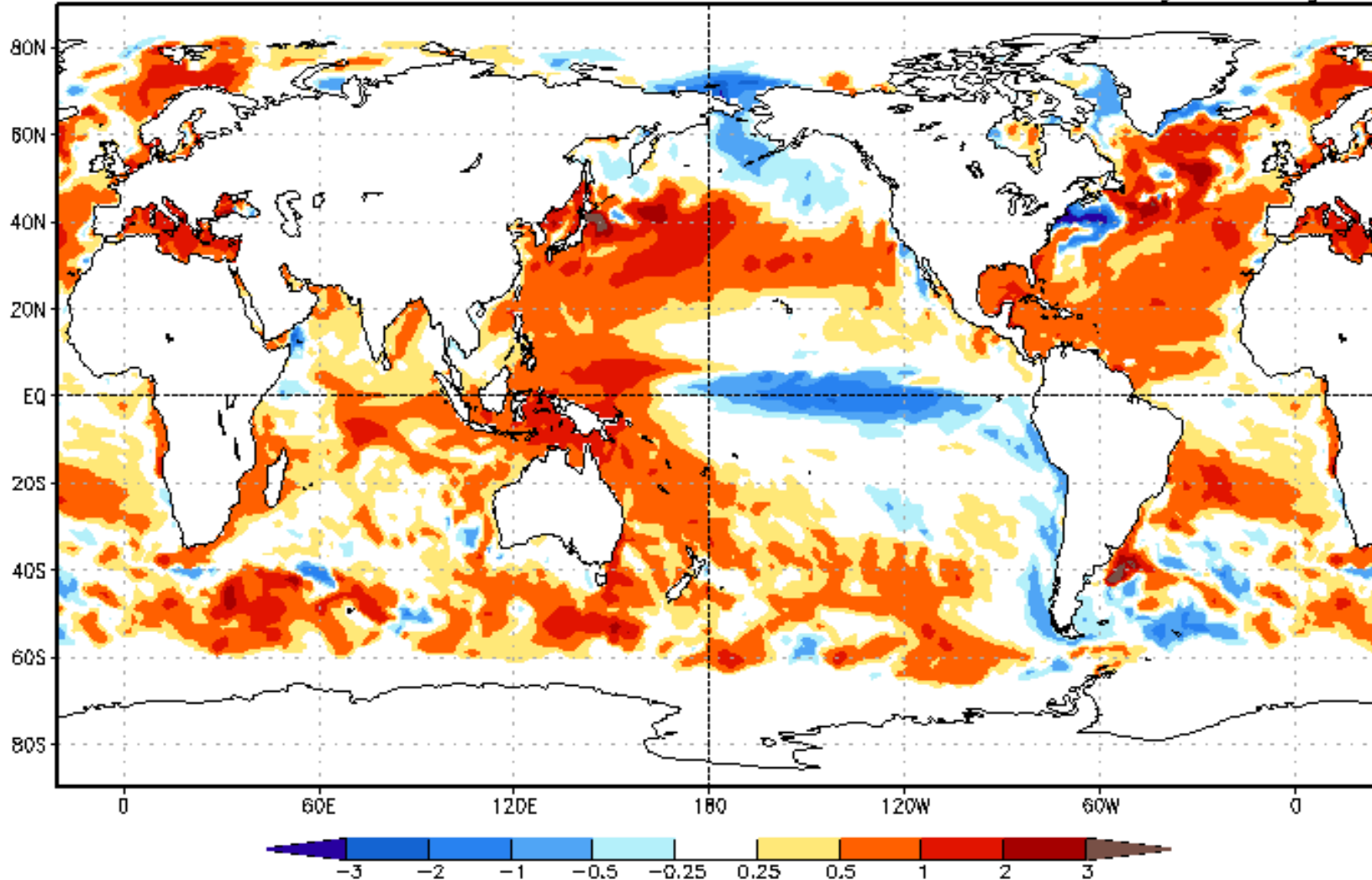


CFSv2 monthly SST anomalies (K)

NWS/NCEP/CPC

Oct 2024

Initial conditions: 19Aug2024-28Aug2024



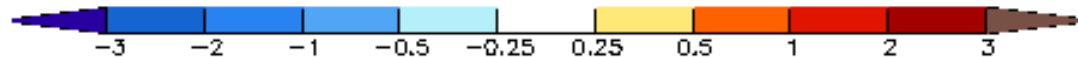
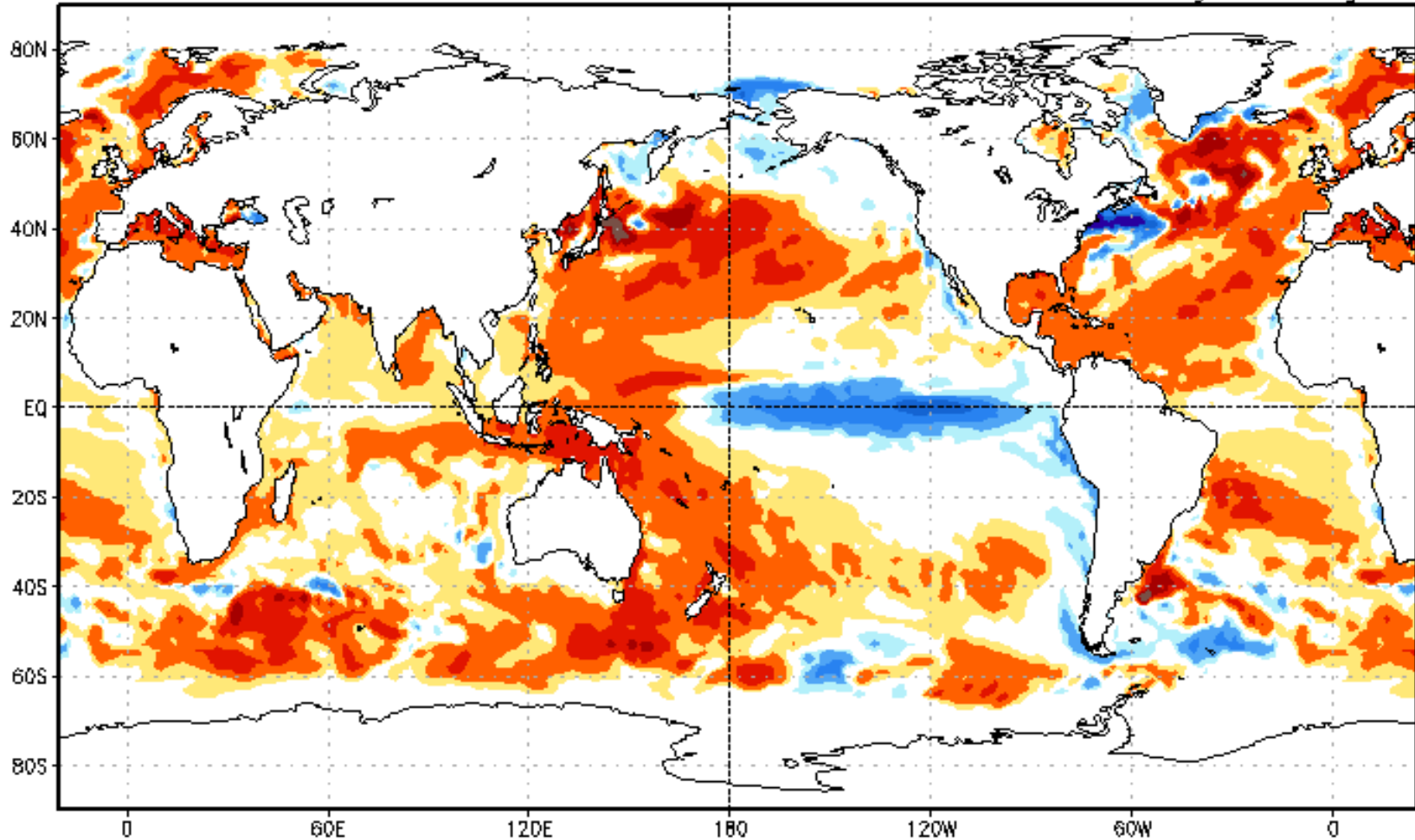


CFSv2 monthly SST anomalies (K)

NWS/NCEP/CPC

Nov 2024

Initial conditions: 19Aug2024-28Aug2024



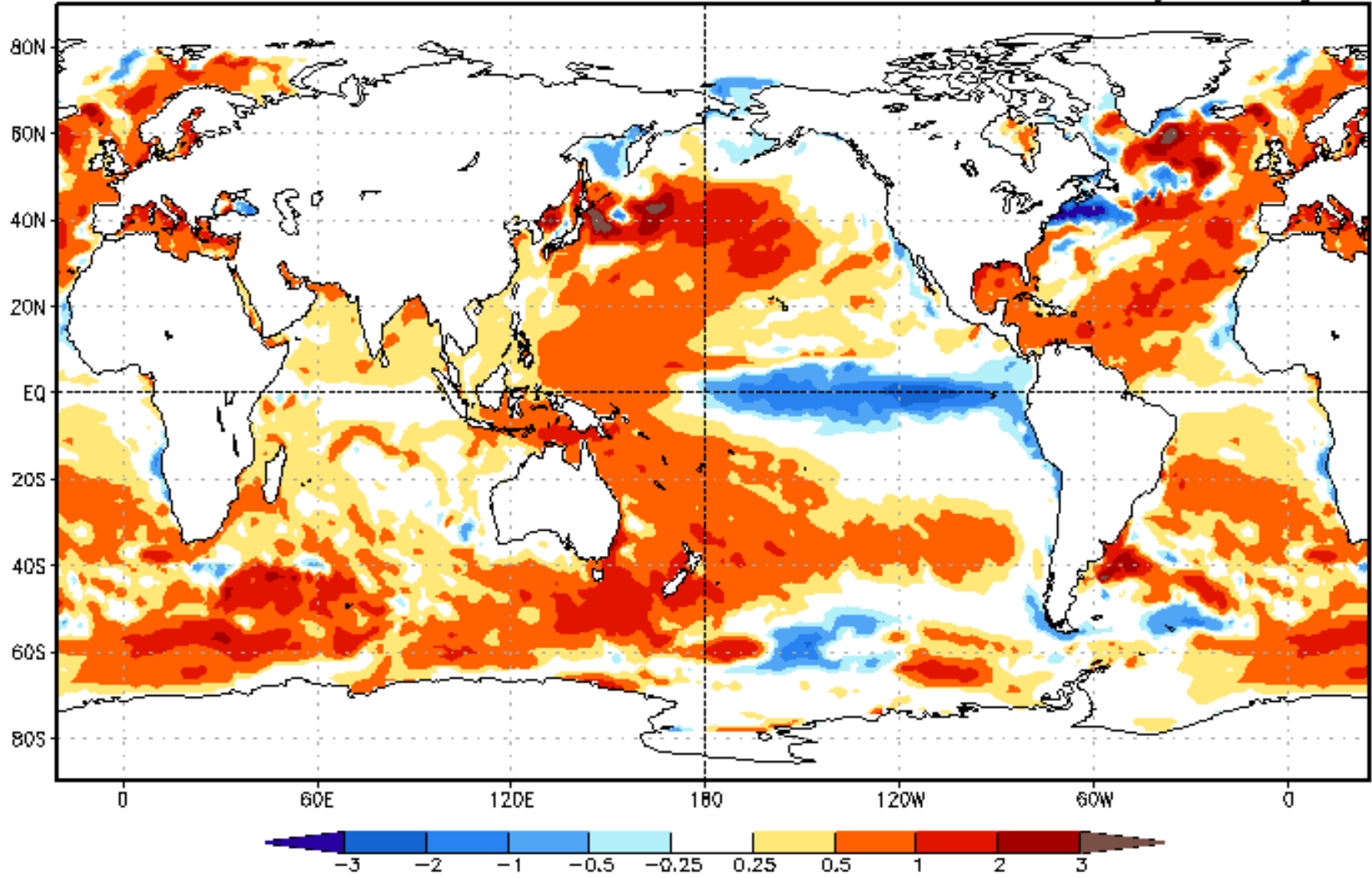


CFSv2 monthly SST anomalies (K)

NWS/NCEP/CPC

Dec 2024

Initial conditions: 19Aug2024-28Aug2024



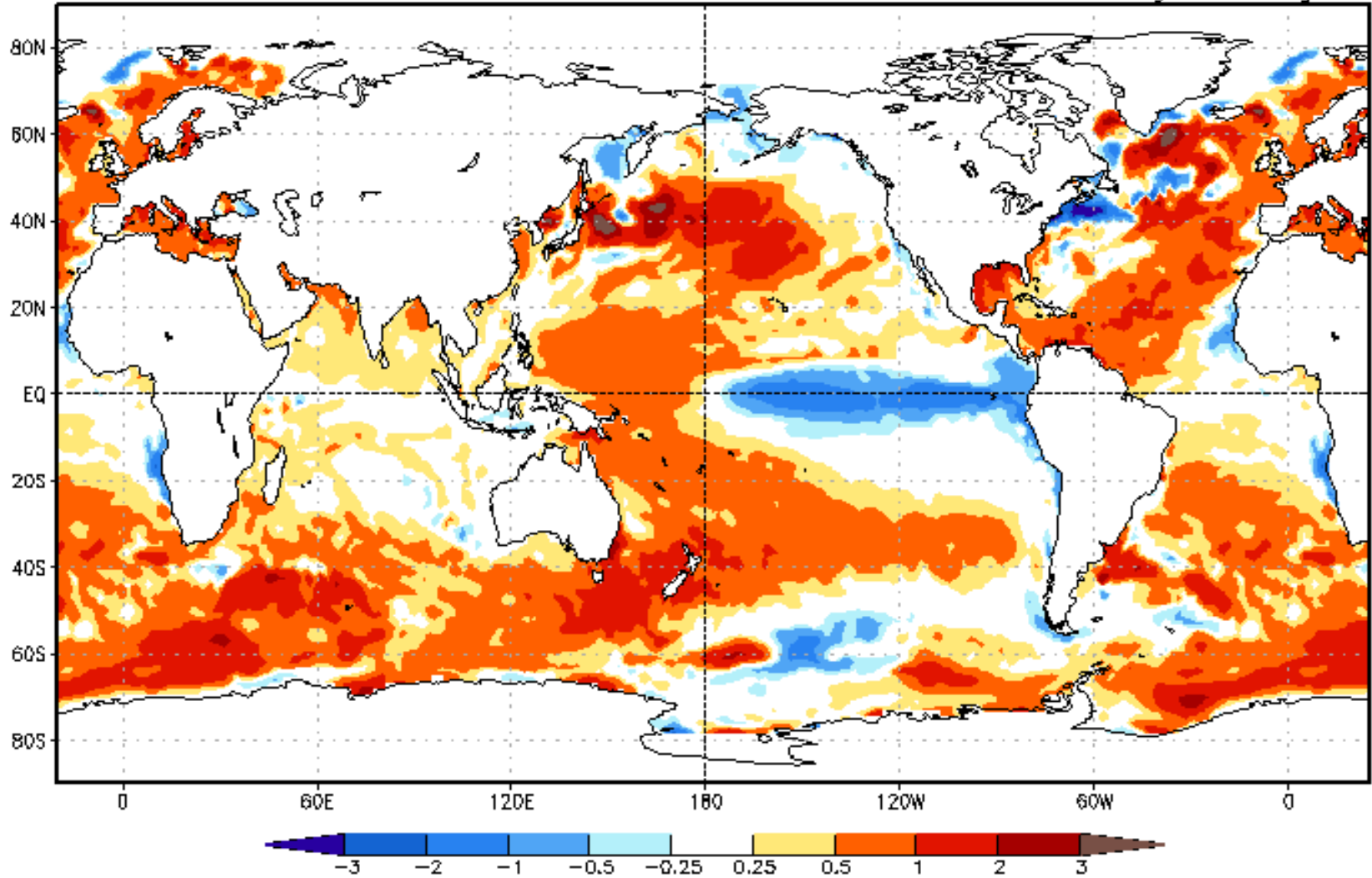


CFSv2 monthly SST anomalies (K)

NWS/NCEP/CPC

Jan 2025

Initial conditions: 19Aug2024-28Aug2024



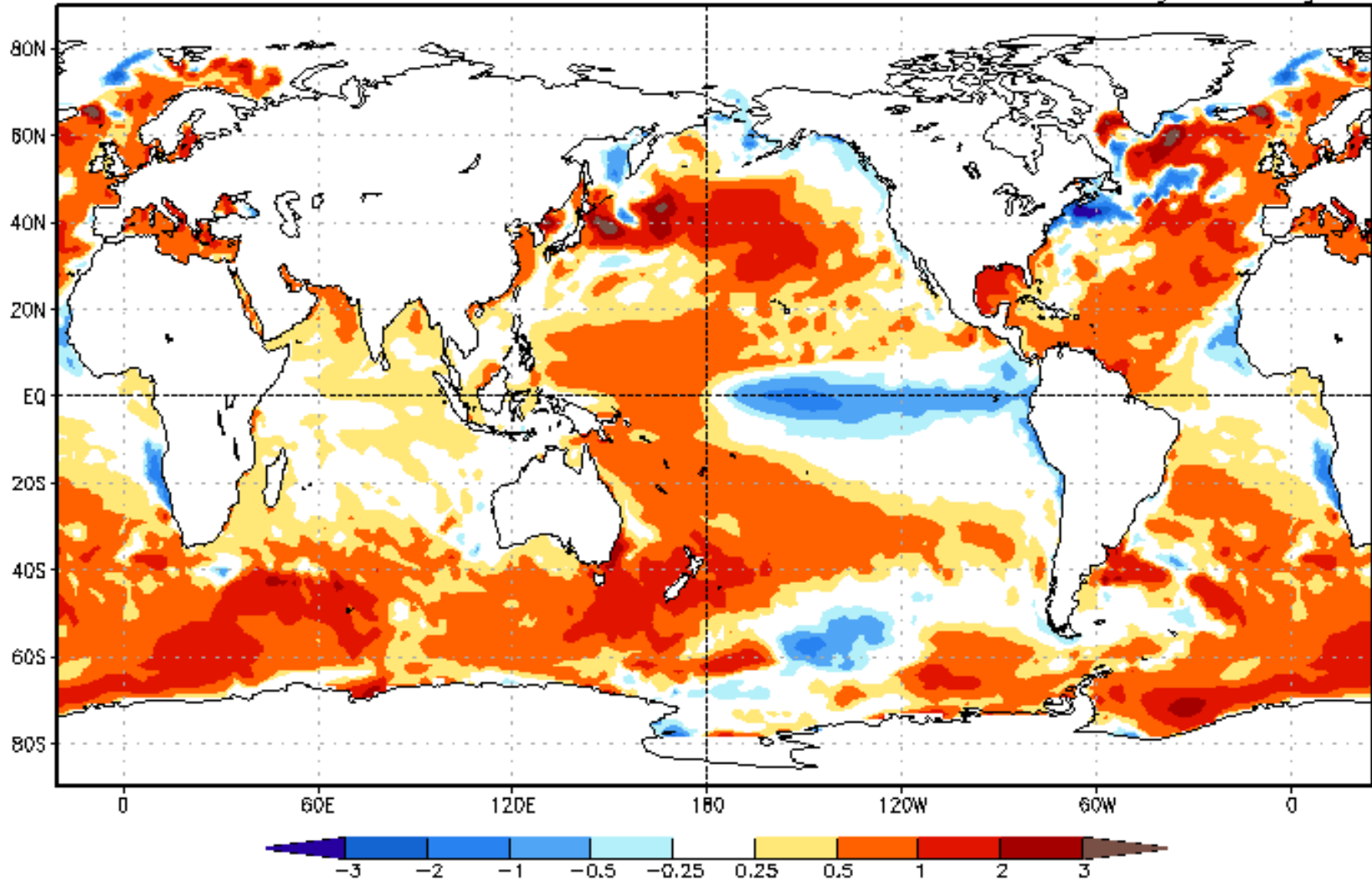


CFSv2 monthly SST anomalies (K)

NWS/NCEP/CPC

Feb 2025

Initial conditions: 19Aug2024-28Aug2024



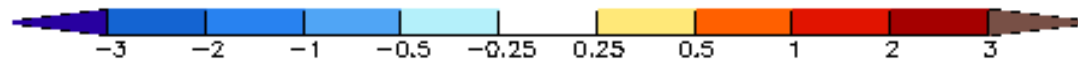
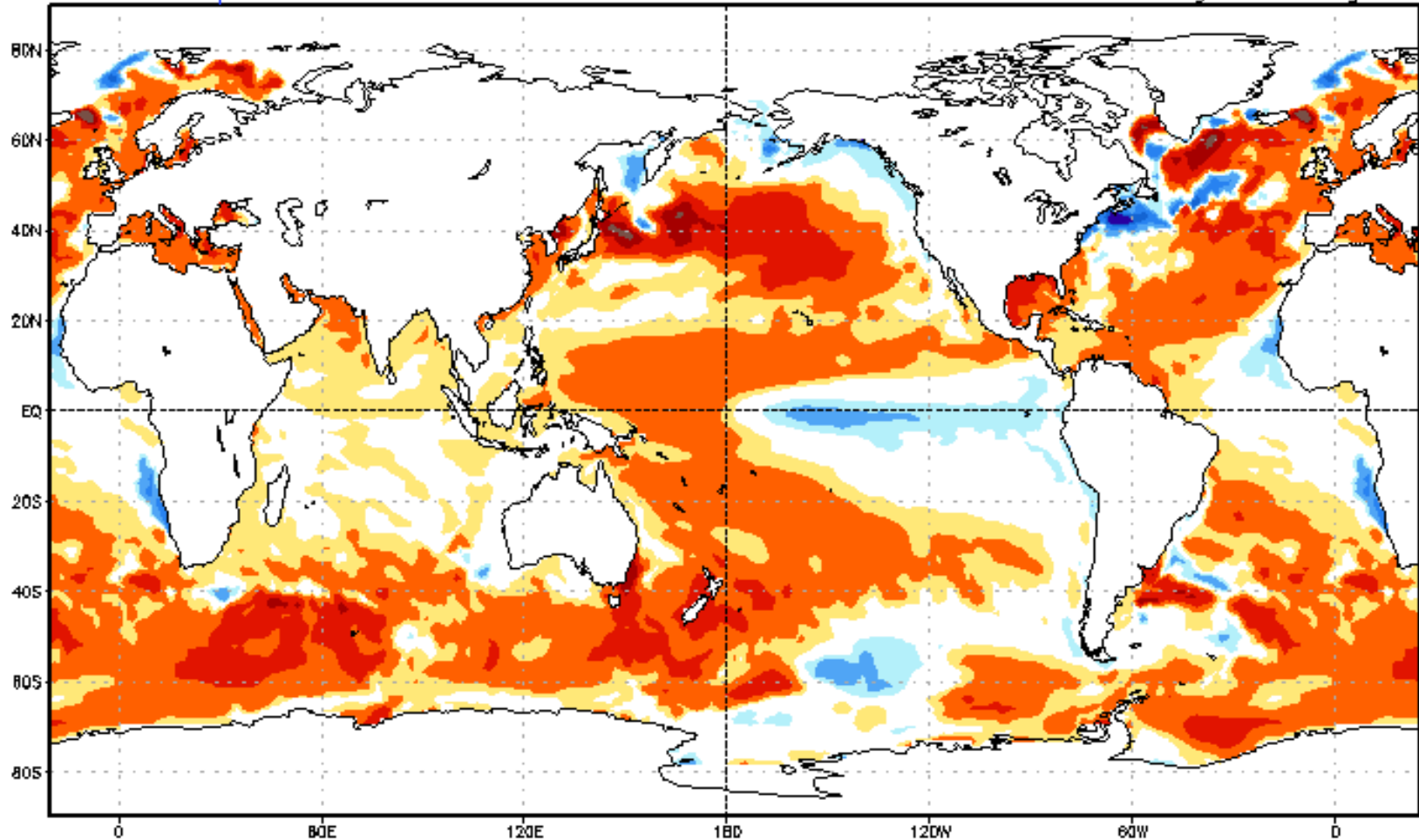


CFSv2 seasonal SST anomalies (K)

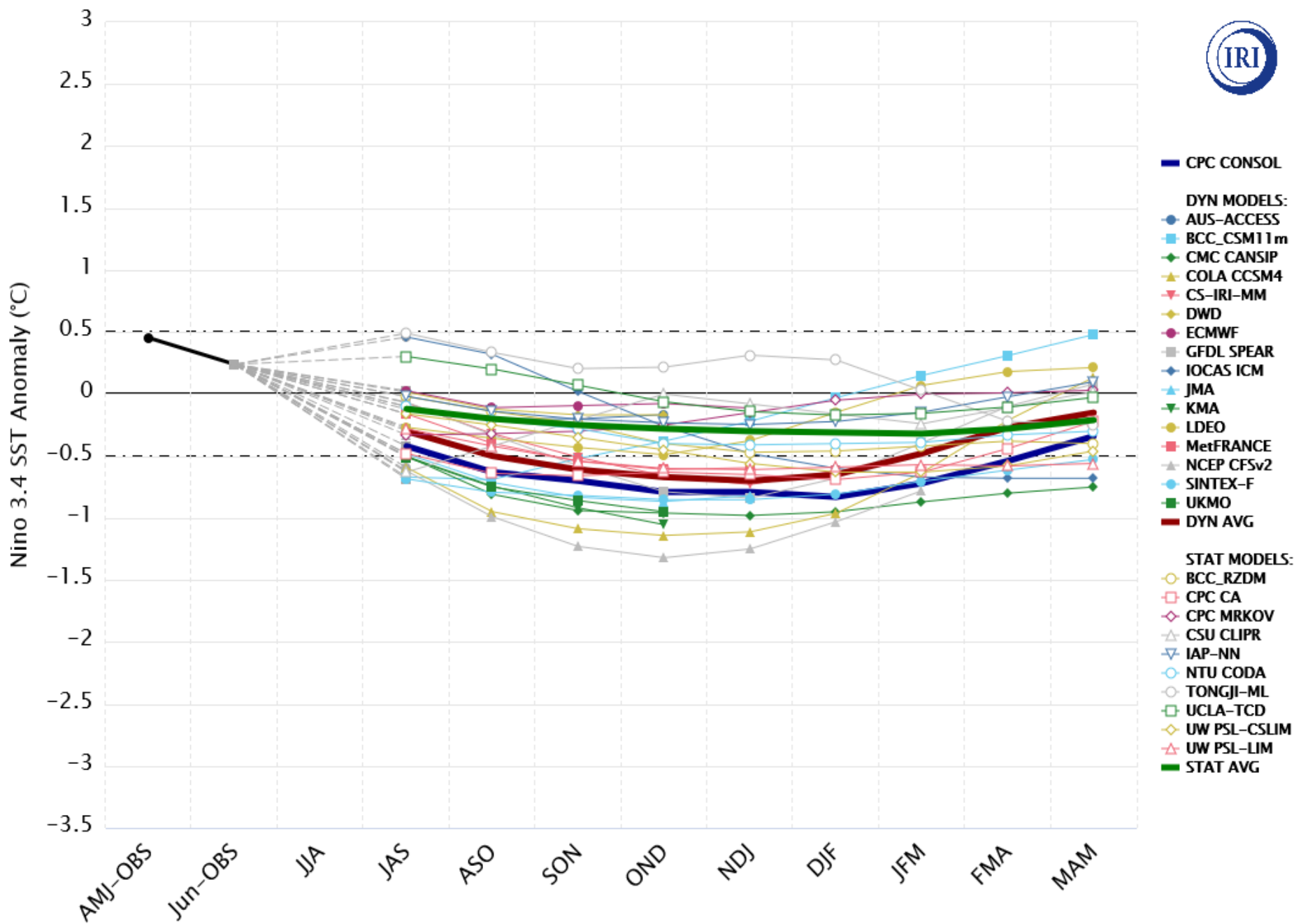
NWS/NCEP/CPC

Feb-Mar-Apr 2025

Initial conditions: 19Aug2024-28Aug2024



Model Predictions of ENSO from Jul 2024



Clima USA



Conclusões:

Primavera/verão, teremos chuvas abaixo da média no centro sul do Brasil e centro sul da América do Sul, com distribuição irregular, e chance grande de verânicos mais prolongados.

Temperaturas devem ficar um pouco acima da média, mas com grandes amplitudes térmicas no centro sul do Brasil. Chance de ondas de frio tardio mais intensas atingirem o sul do Brasil (setembro).

Uma nova La Nina está começando no Oceano Pacífico Equatorial, e deve persistir até meados de 2025.



Obrigado

Luiz Renato Lazinski
Meteorologista