



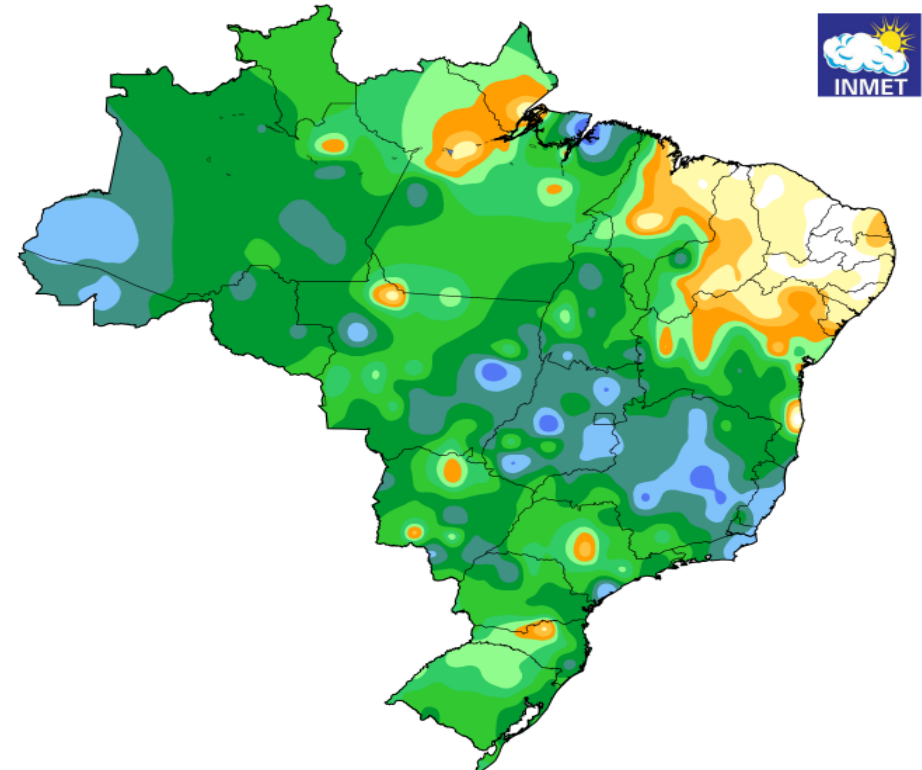
CLIMA: PROJEÇÕES PARA A SAFRA 2020/2021

Dezembro/2020



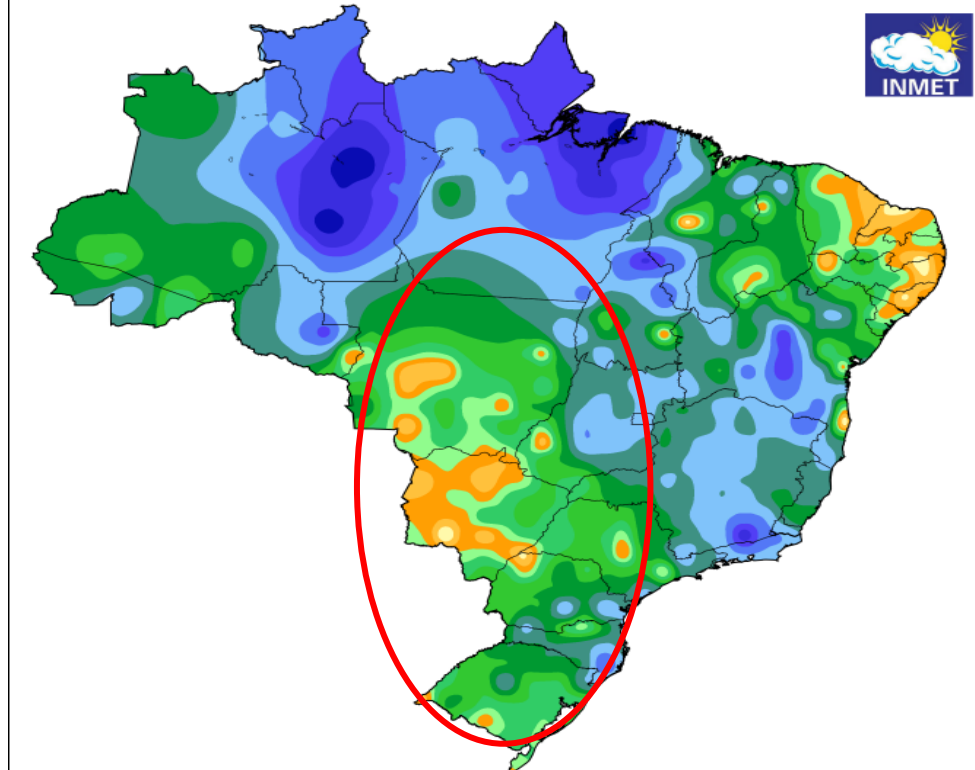
Instituto Nacional de Meteorologia - INMET
Precipitação Acumulada nos últimos 30 dias
Mapa do dia 31/10/2020

OUTUBRO/2020

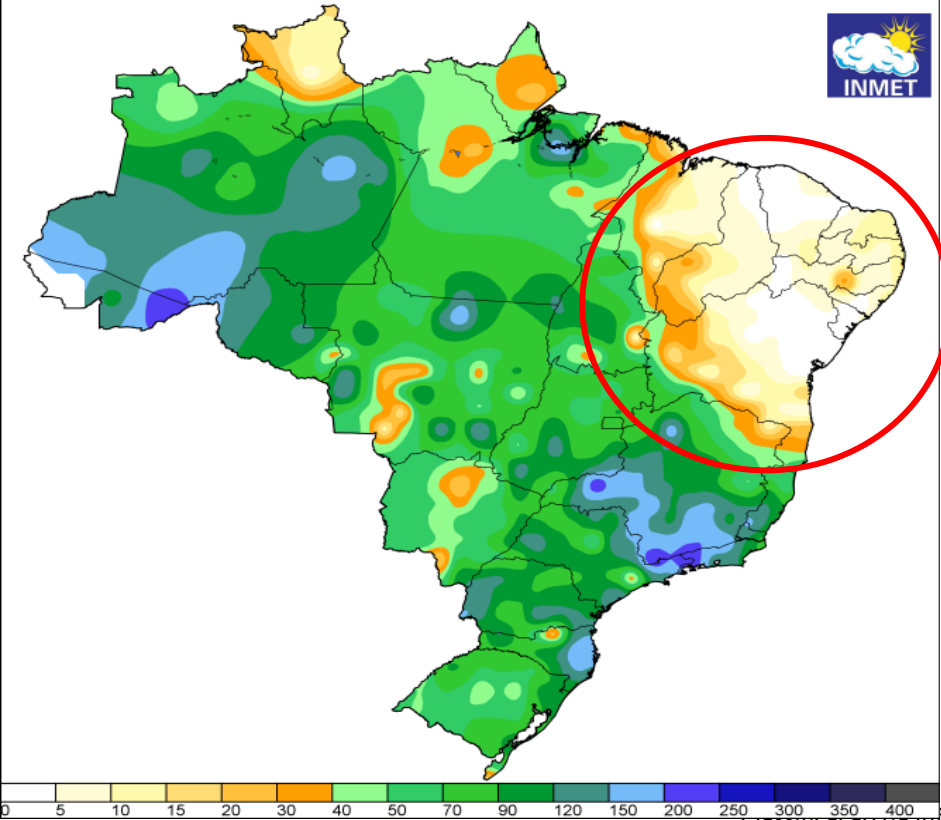


Instituto Nacional de Meteorologia - INMET
Precipitação Acumulada nos últimos 30 dias
Mapa do dia 30/11/2020

NOVEMBRO/2020

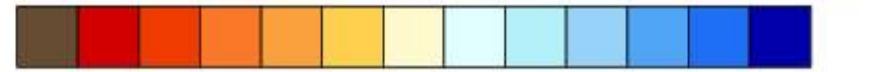
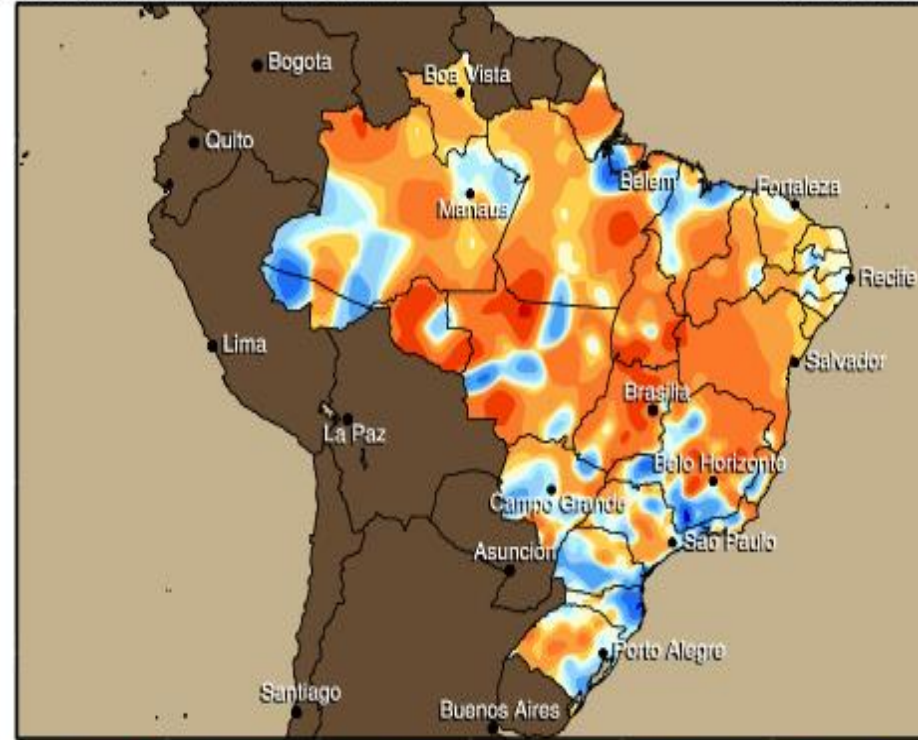


Instituto Nacional de Meteorologia - INMET
Precipitação Acumulada nos últimos 15 dias
Mapa do dia 15/12/2020



Anomalia da Precipitação (mm)

01/12 - 16/12

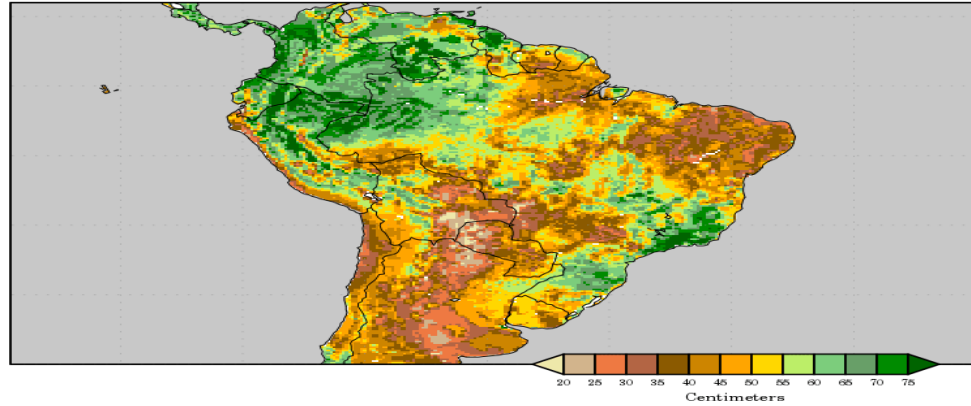


Dezembro: Umidade do Solo



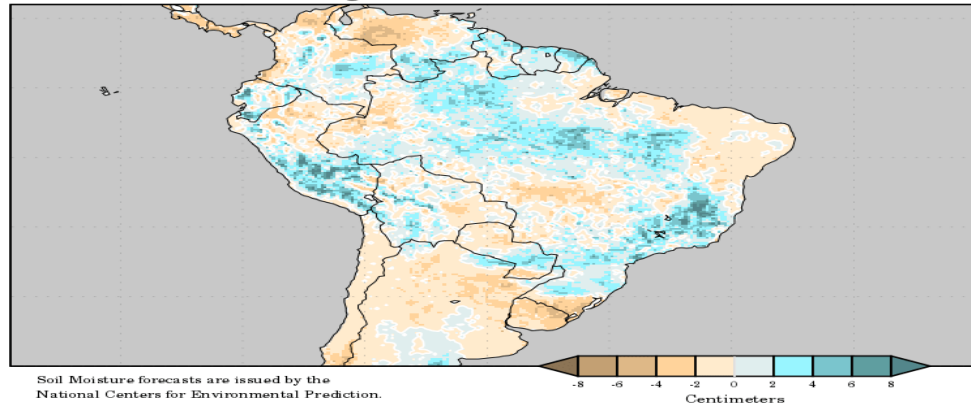
Initial Soil Moisture

Liquid Water in top 2 meters of soil
Valid time: Wed, 16 DEC 2020 at 00Z



Soil Moisture Change

00Z 16 DEC 2020 to 00Z 24 DEC 2020



Soil Moisture forecasts are issued by the National Centers for Environmental Prediction.

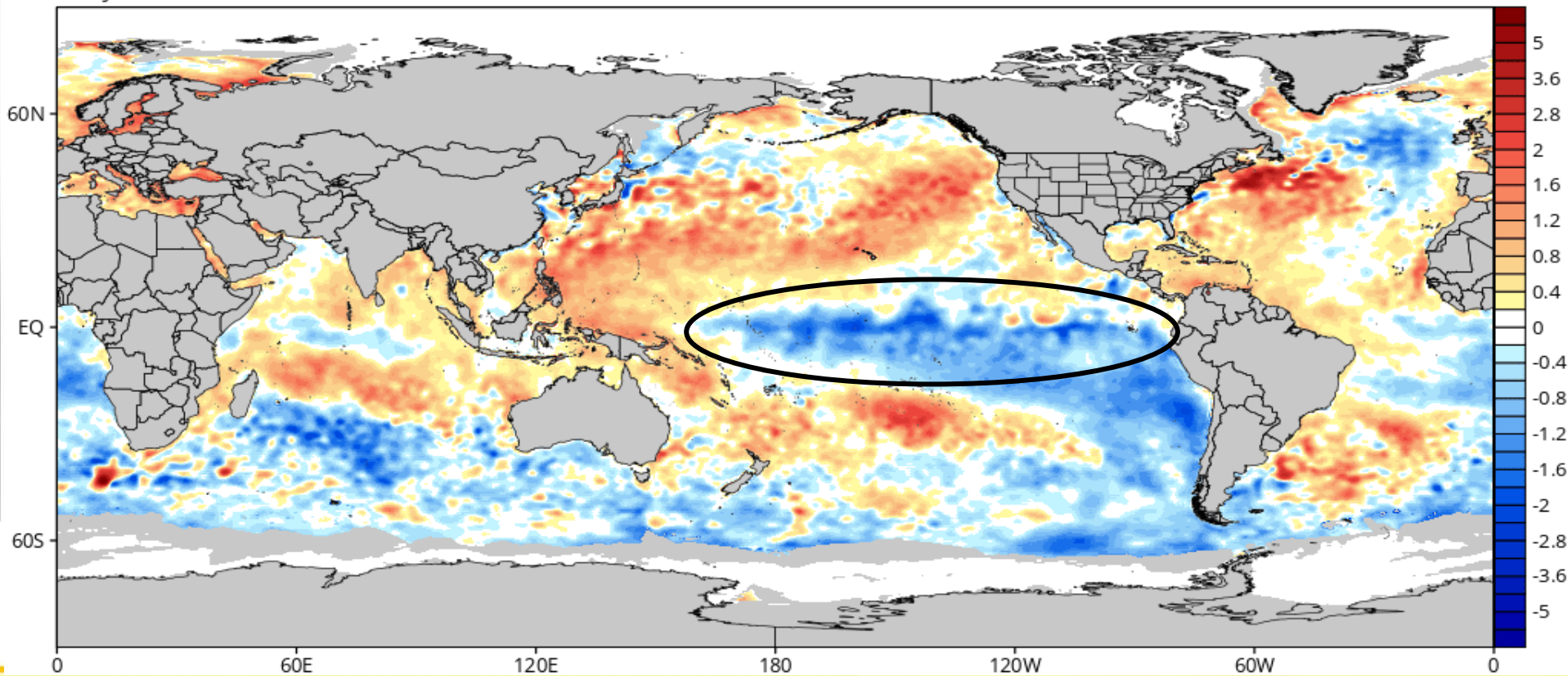
Resfriamento do Pacífico Equatorial caracteriza um LA NIÑA



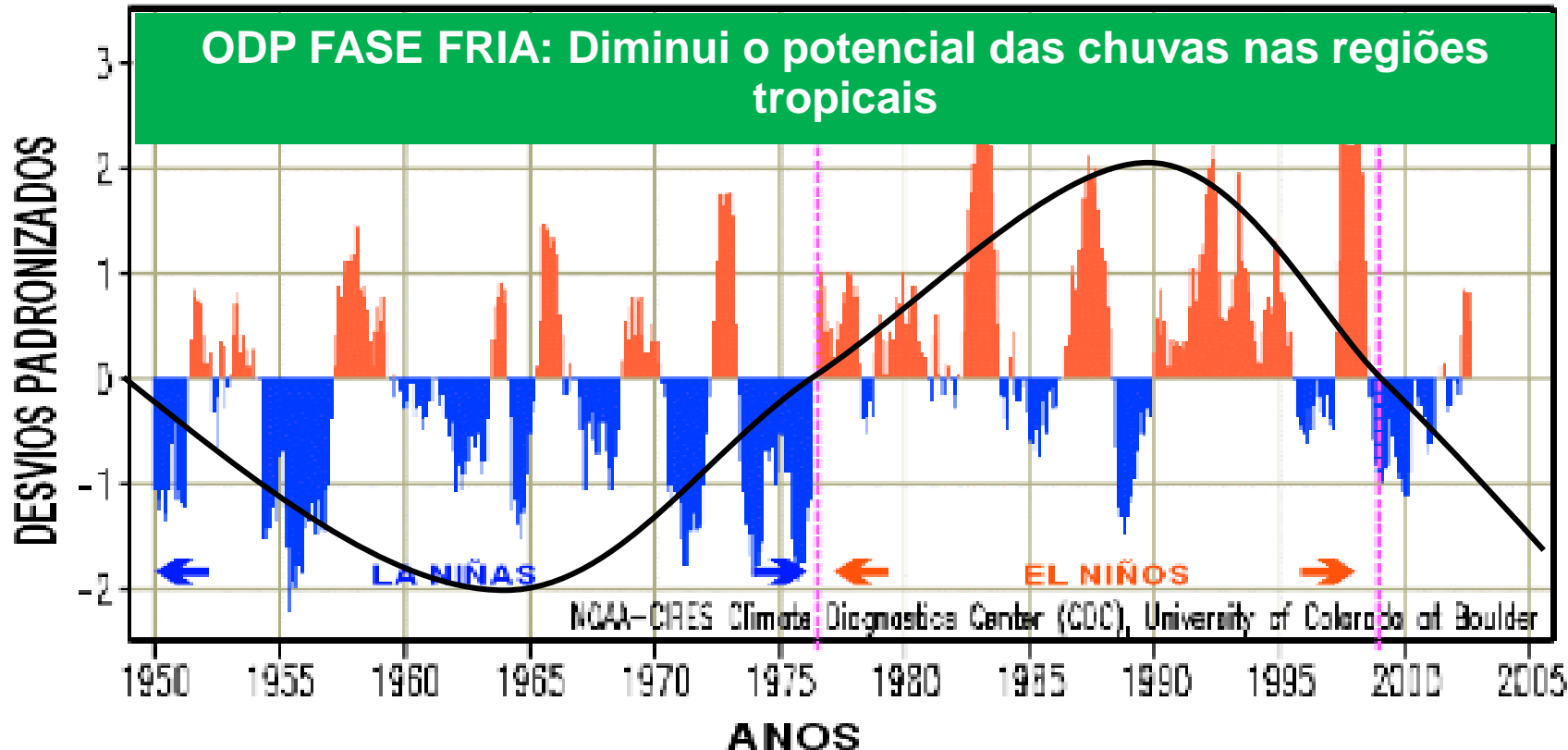
CDAS Sea Surface Temperature Anomaly (°C) (based on CFSR 1981-2010 Climatology)

Analysis Time: 00z Dec 17 2020

TROPICALTIDBITS.COM



OSCILAÇÃO INTERDECADAL DO PACÍFICO (ODP)



Pacífico equatorial: LA NIÑA enfraquece a partir do 2º trimestre/2021



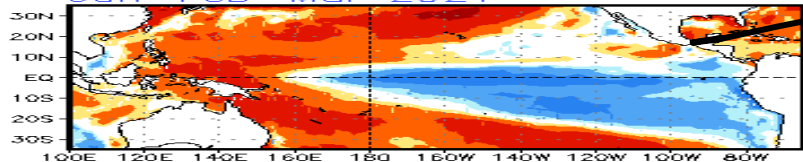
NWS/NCEP/CPC

Initial conditions: 6Dec2020—15Dec2020

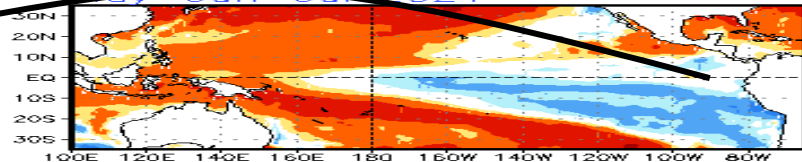
Last update: Thu Dec 17 2020

CFSv2 seasonal SST (K)

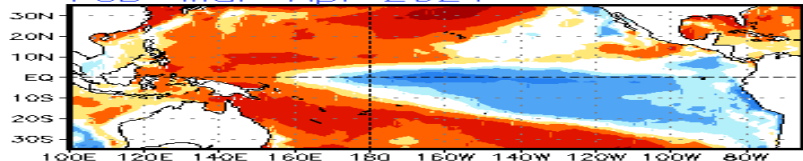
Jan—Feb—Mar 2021



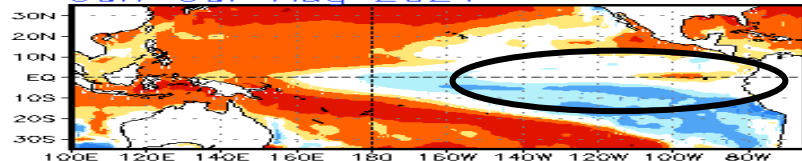
May—Jun—Jul 2021



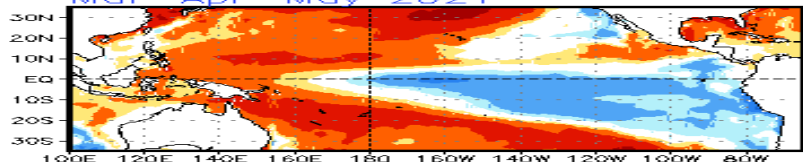
Feb—Mar—Apr 2021



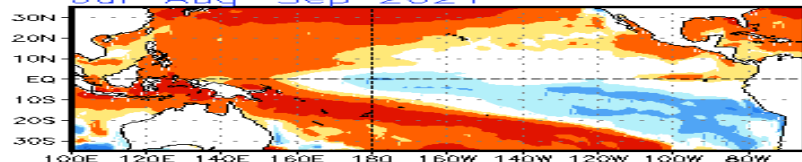
Jun—Jul—Aug 2021



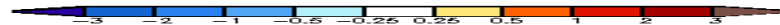
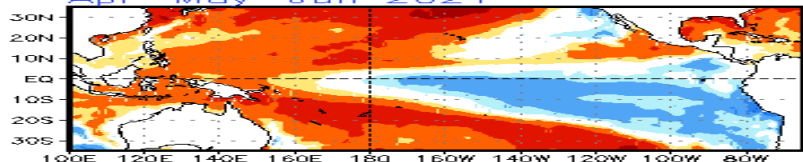
Mar—Apr—May 2021



Jul—Aug—Sep 2021

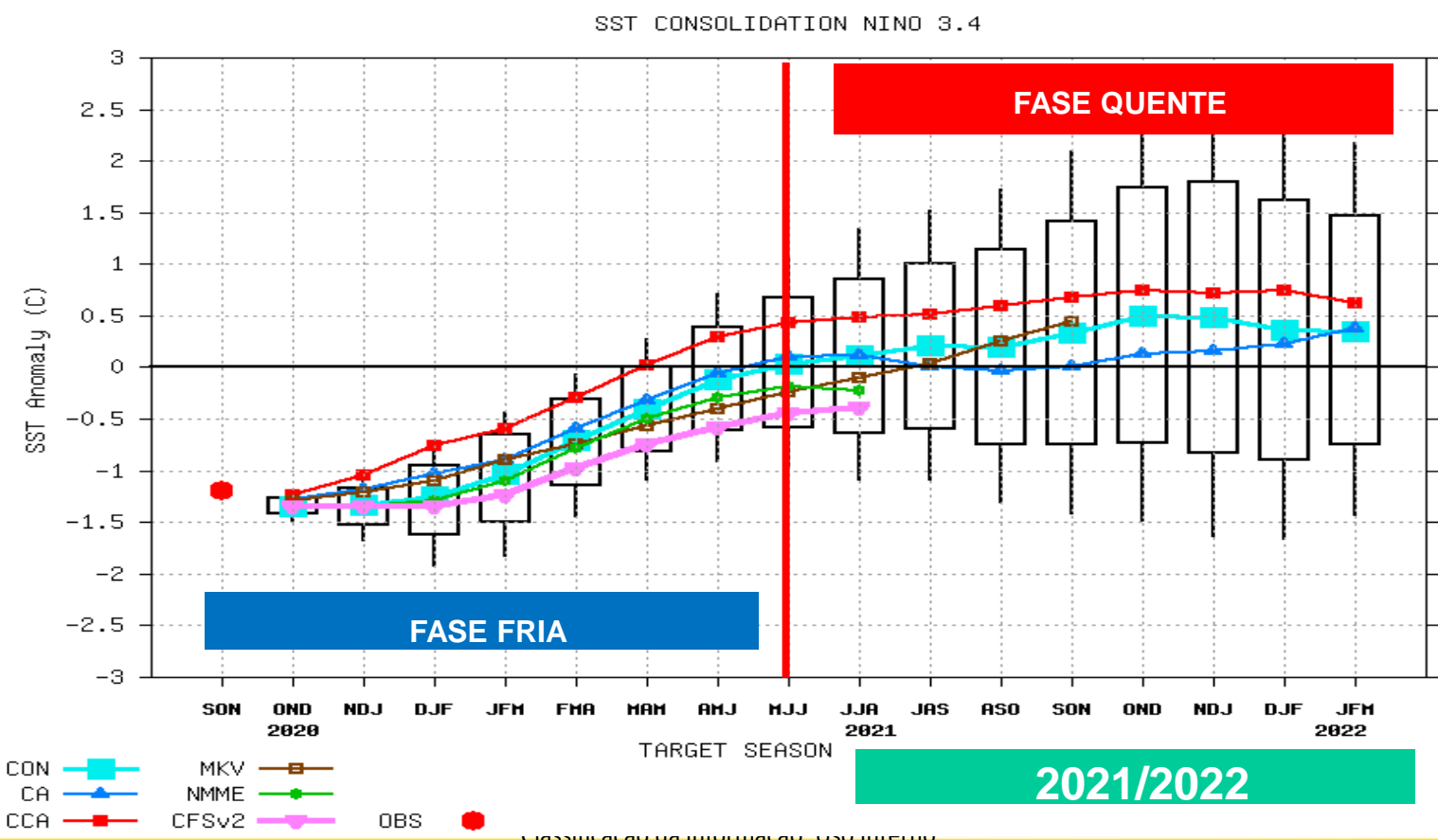


Apr—May—Jun 2021



(Model bias correction base period: 1999—2010; Climatology base period: 1982—2010)

NOAA: Pacífico equatorial muda de fase em meados de 2021



Pacífico Equatorial Central muda em 2021



2020

JANUARY

FEBRUARY

MARCH

APRIL

EL NIÑO FRACO

MAY

JUNE

JULY

AUGUST

TRANSIÇÃO PARA FASE FRIA

SEPTEMBER

OCTOBER

NOVEMBER

DECEMBER

LA NIÑA INTENSO

2021

JANUARY

FEBRUARY

MARCH

APRIL

LA NIÑA INTENSO

MAY

JUNE

JULY

AUGUST

TRANSIÇÃO PARA FASE QUENTE

SEPTEMBER

OCTOBER

NOVEMBER

DECEMBER

INDICATIVO DE EL NIÑO



- ✓ Confirmado a fase fria no Pacífico equatorial, com a configuração do fenômeno LA NIÑA;
- ✓ Verão de 2021 ocorre sob os efeitos do fenômeno LA NIÑA;
- ✓ O LA NIÑA entra em processo de gradual enfraquecimento já no decorrer do primeiro trimestre de 2021;
- ✓ Pacífico Equatorial em fase de transição para NEUTRALIDADE durante o Outono e Inverno de 2021;
- ✓ Indicativo de fase quente para o segundo semestre de 2021.



- ✓ Para o **Sul** do Brasil as chuvas de dezembro aliviaram os efeitos da estiagem. Porém, a presença do LA NIÑA mantém condições de chuvas abaixo da média e o risco de ocorrerem estiagens regionalizadas, principalmente no Rio Grande do Sul;
- ✓ No **Centro-Oeste e no Sudeste**, superados os problemas no plantio, nos meses de verão as chuvas ficam mais regulares. Em anos de La Niña aumenta o risco de alguns períodos chuvosos (Invernadas), entre janeiro e fevereiro;
- ✓ Para a região do **MATOPIBA**, a antecipação do início das chuvas, puxou o período de estiagem para dezembro. Para o decorrer do verão, as chuvas devem ficar mais regulares. Período de chuvas se prolonga até abril e início de maio;
- ✓ Para a **Argentina, Uruguai e Paraguai**, anos de La Niña estão associados com períodos de chuvas abaixo da média e risco de estiagem regionalizadas.



- ✓ Clima favorece lavoura de Milho Segunda Safra do Centro-Oeste. Mesmo em fase de enfraquecimento da fase fria/La Niña, período de chuvas deve se prolongar até o início de maio/2021;
- ✓ Já para as lavouras de Milho Segunda Safra do Paraná e Mato Grosso do Sul, a fase de transição do La Niña para a Neutralidade, favorece a ocorrência de chuvas entre abril e maio. Mas por outro lado, antecipa a chegada do frio, com aumento do risco de geadas já em maio;
- ✓ Em geral melhoram as condições de chuvas para as pastagens e lavouras de inverno do Sul do Brasil. Inverno de 2021 deve ser mais frio que os anteriores e aumenta a incidência de geadas;
- ✓ Plantio da Lavoura Americana de 2021 deve atrasar. Umidade elevada e principalmente o frio se prolonga até abril.

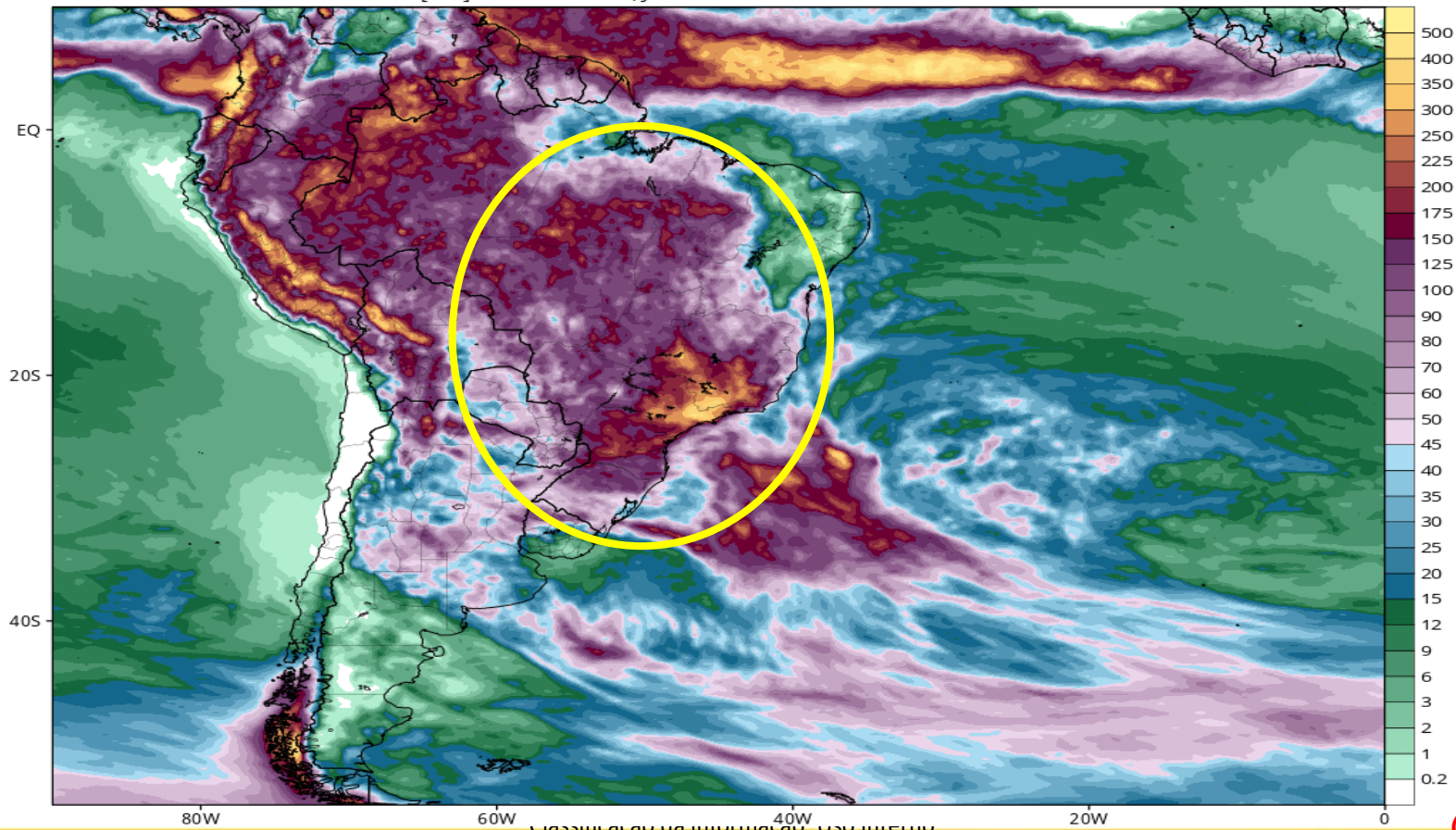
Previsão de CHUVA para o restante de Dezembro/2020



GFS Total Accumulated Precipitation (mm) from 00z17Dec2020 to 00z02Jan2021

Init: 00z Dec 17 2020 Forecast Hour: [384] valid at 00z Sat, Jan 02 2021

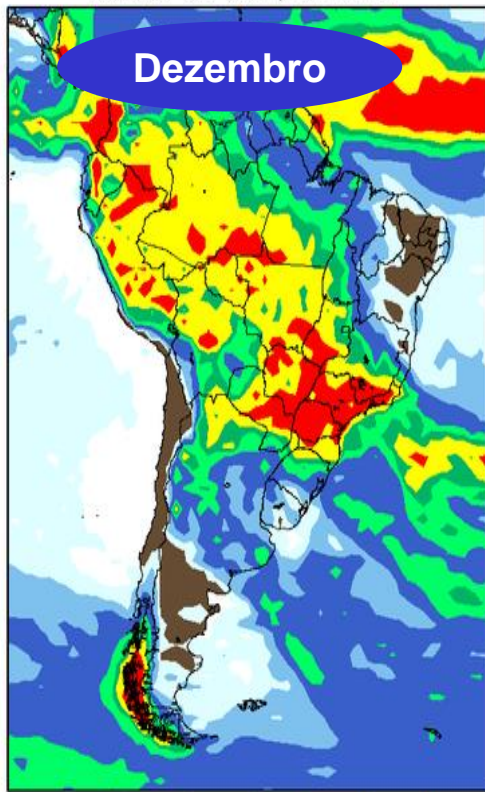
TROPICALTIDBITS.COM



Previsão Chuva Mensal (Centro Europeu)

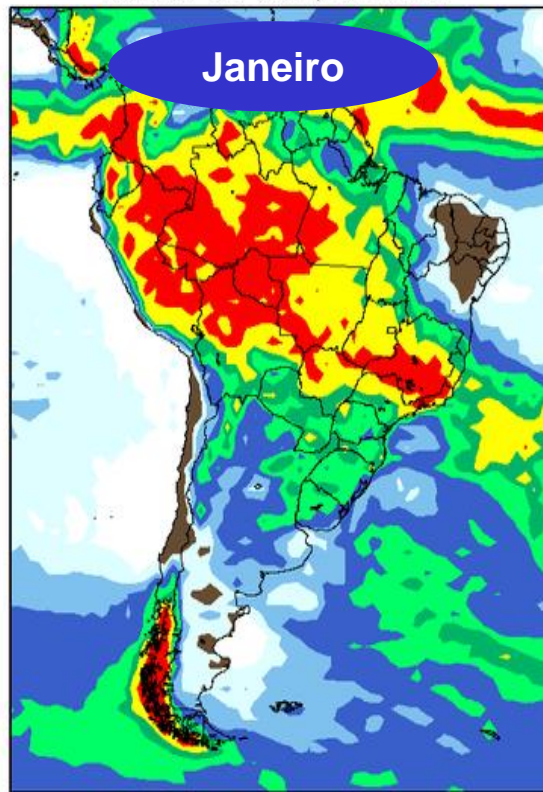


Precipitacao Mensal 12/2020 (mm)
Rodada de: 2020/12 ECMWF



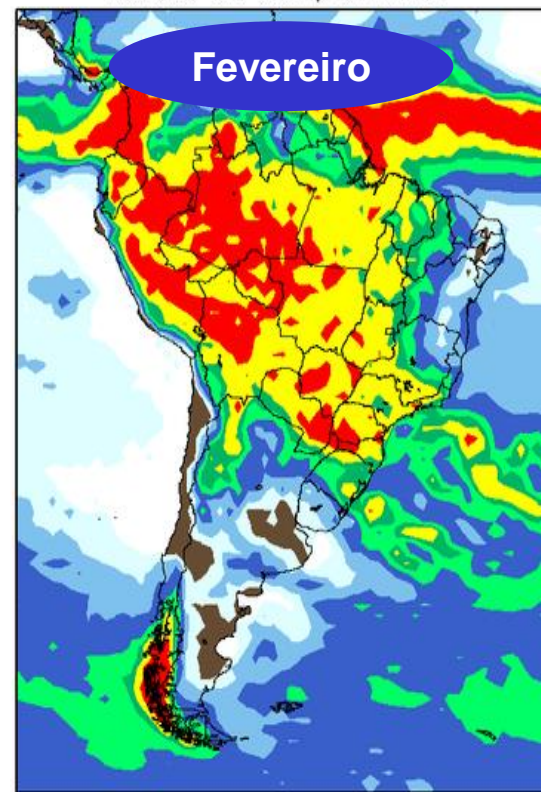
10 25 50 100 150 200 300

Precipitacao Mensal 01/2021 (mm)
Rodada de: 2020/12 ECMWF



10 25 50 100 150 200 300

Precipitacao Mensal 02/2021 (mm)
Rodada de: 2020/12 ECMWF

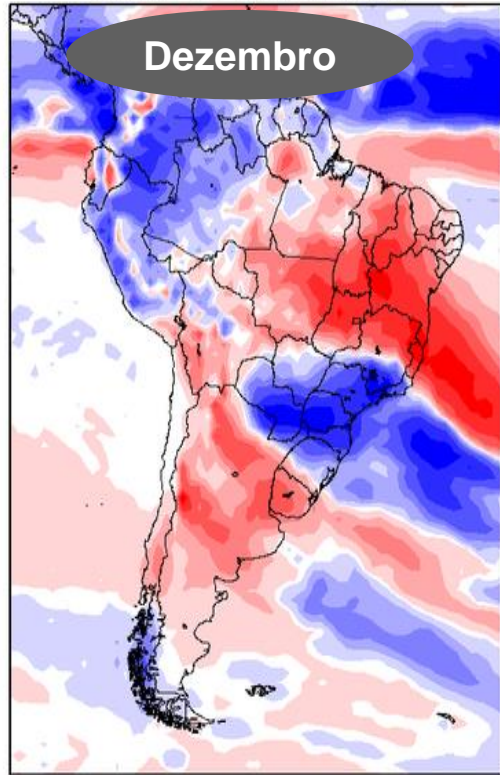


10 25 50 100 150 200 300

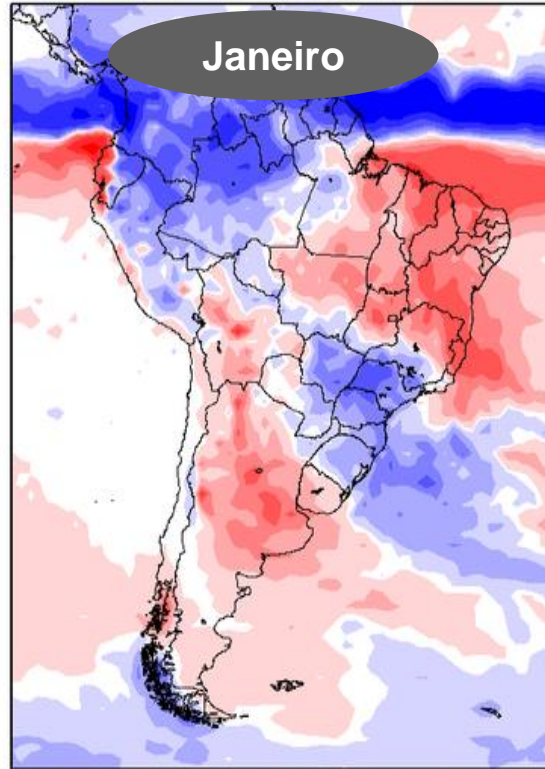
Previsão Anomalia de Chuva Mensal (Centro Europeu)



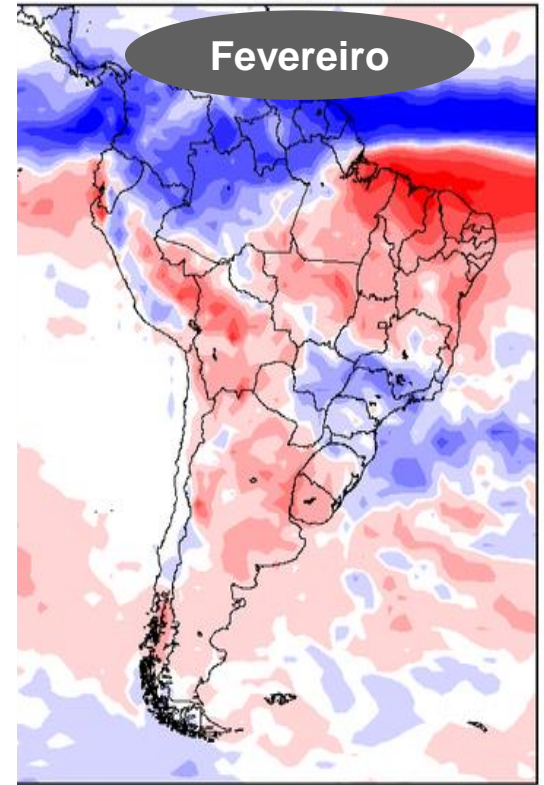
Anomalia Precipitacao Mensal 12/2019 (mm)
Rodada de: 2020/12 ECMWF



Anomalia Precipitacao Mensal 01/2020 (mm)
Rodada de: 2020/12 ECMWF



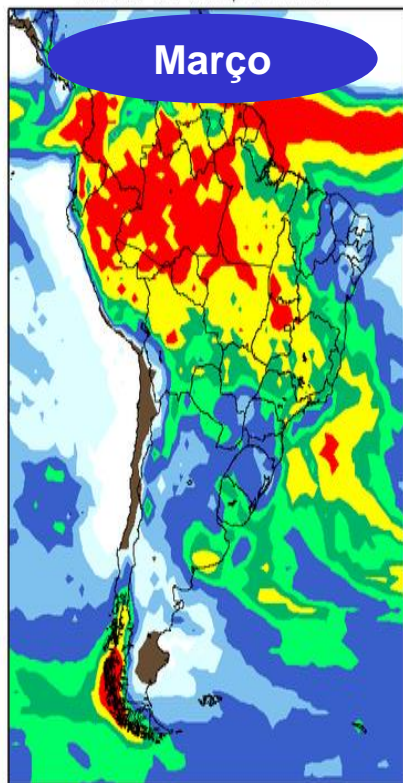
Anomalia Precipitacao Mensal 02/2020 (mm)
Rodada de: 2020/12 ECMWF



Previsão Chuva Mensal (Centro Europeu)

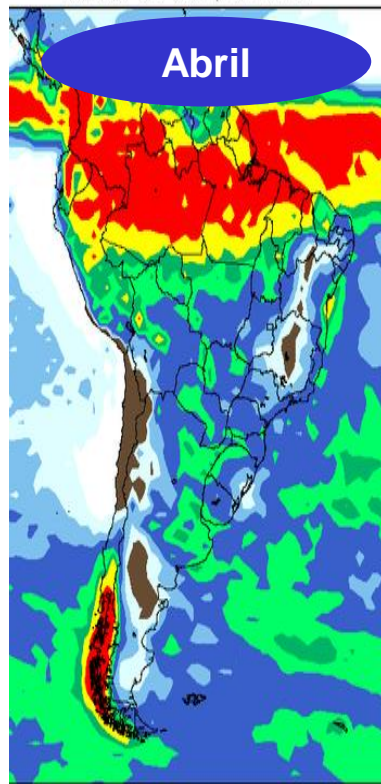


Precipitação Mensal 03/2021 (mm)
Rodada de: 2020/12 ECMWF



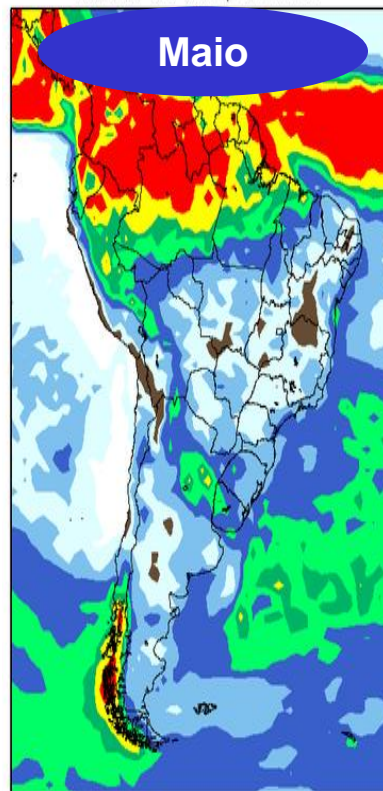
10 25 50 100 150 200 300

Precipitação Mensal 04/2021 (mm)
Rodada de: 2020/12 ECMWF



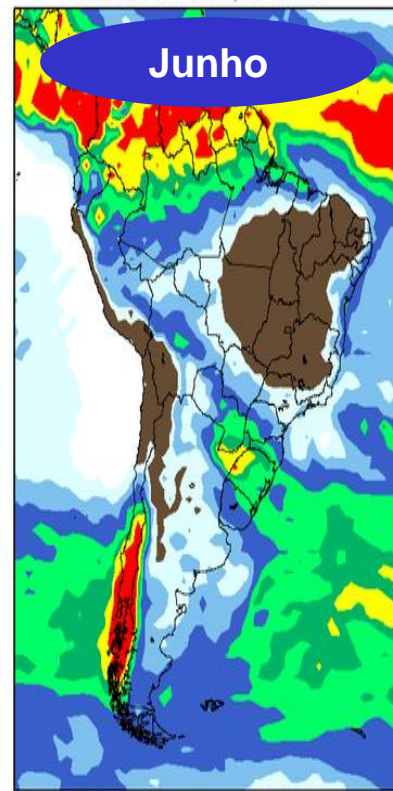
10 25 50 100 150 200 300

Precipitação Mensal 05/2021 (mm)
Rodada de: 2020/12 ECMWF



10 25 50 100 150 200 300

Precipitação Mensal 06/2021 (mm)
Rodada de: 2020/12 ECMWF

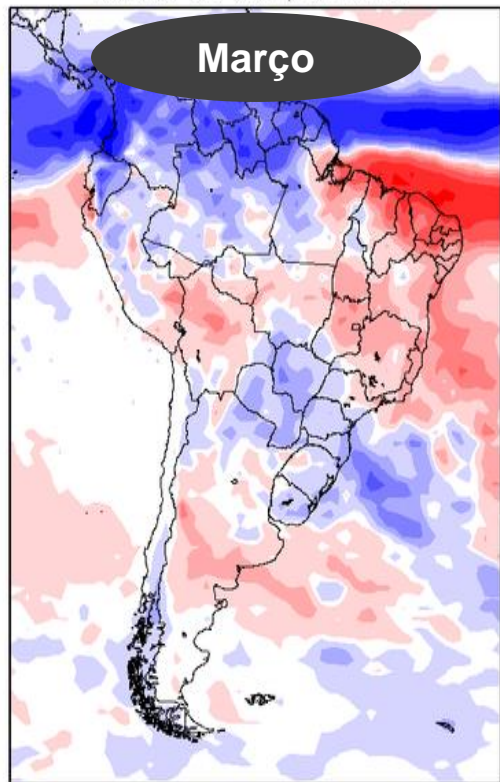


10 25 50 100 150 200 300

Previsão Anomalia de Chuva Mensal (Centro Europeu)

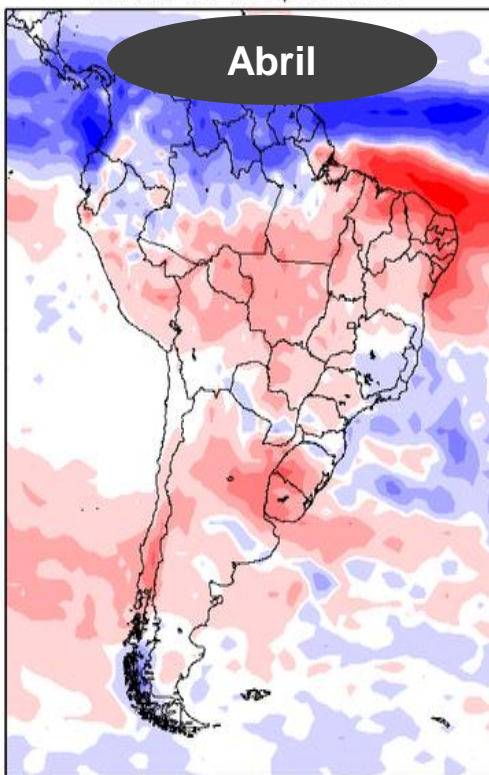


Anomalia Precipitacao Mensal 03/2020 (mm)
Rodada de: 2020/12 ECMWF



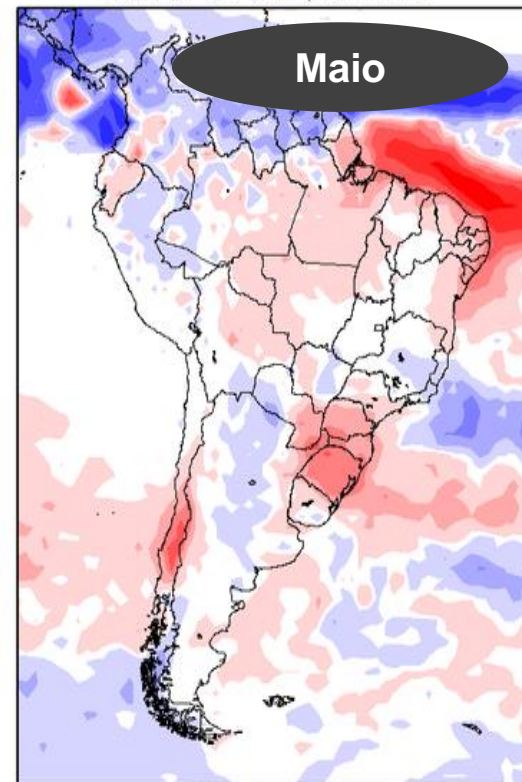
-75 -50 -30 -20 -10 -2 2 10 20 30 50 75

Anomalia Precipitacao Mensal 04/2020 (mm)
Rodada de: 2020/12 ECMWF



-75 -50 -30 -20 -10 -2 2 10 20 30 50 75

Anomalia Precipitacao Mensal 05/2020 (mm)
Rodada de: 2020/12 ECMWF



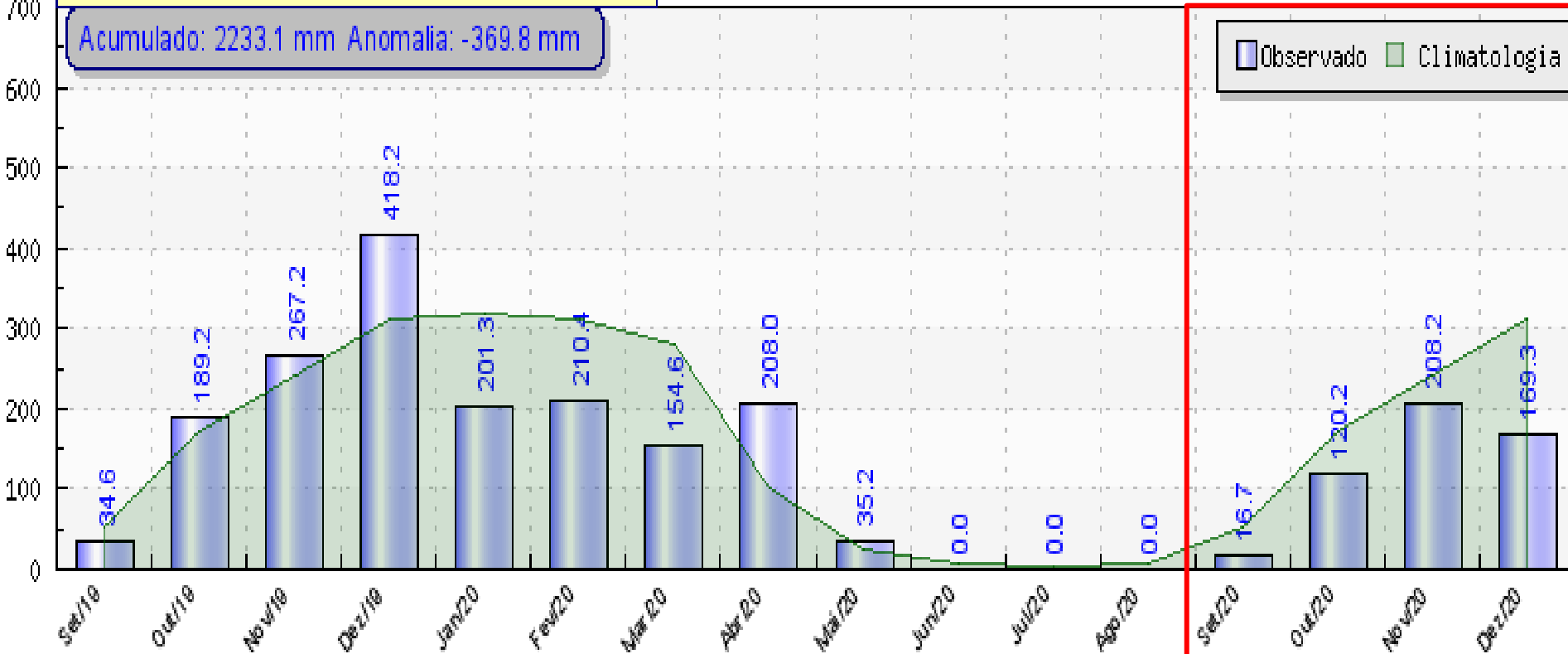
-75 -50 -30 -20 -10 -2 2 10 20 30 50 75



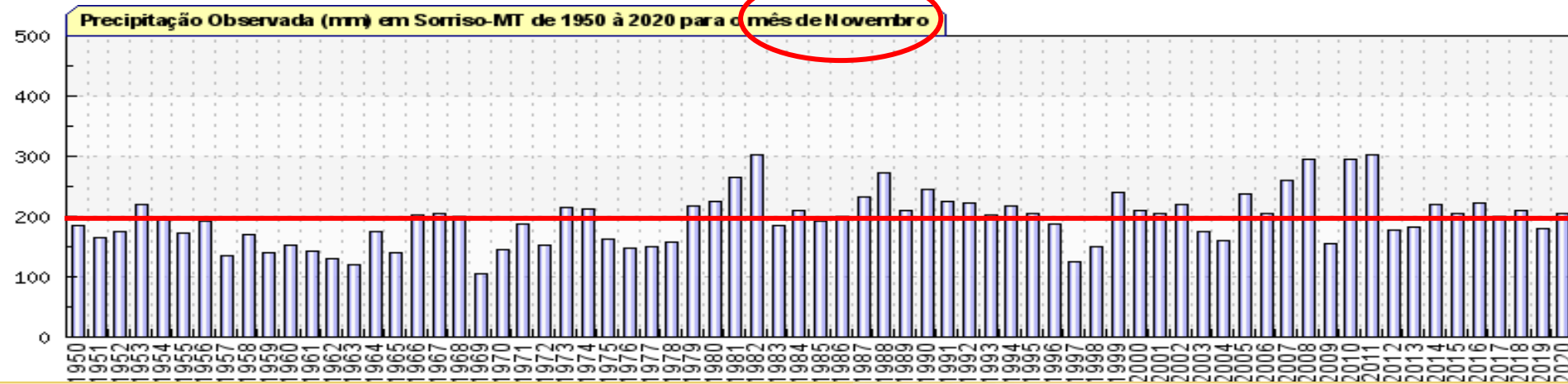
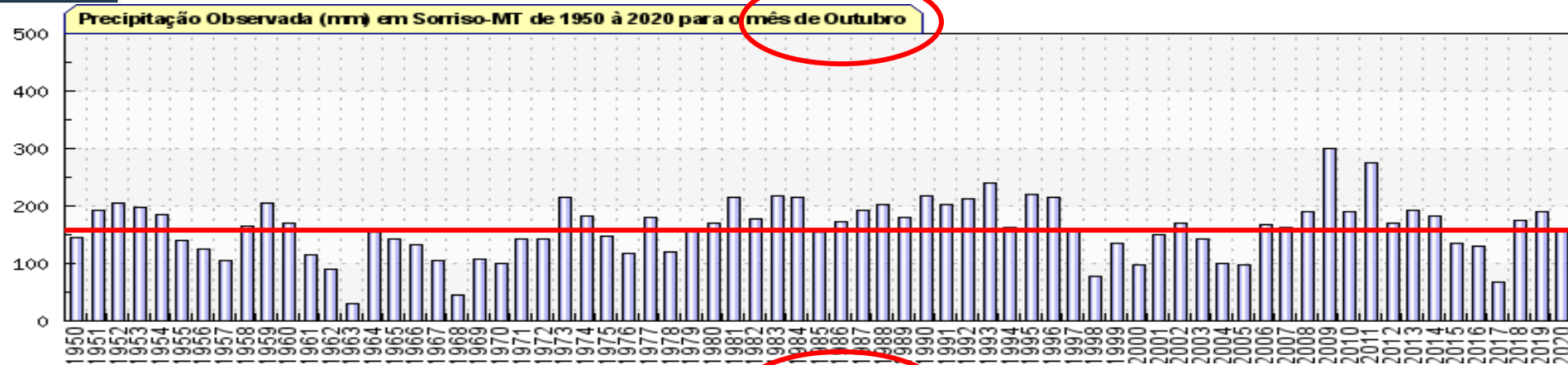
Precipitação Observada em Sorriso-MT de Set/19 à Dez/20

Acumulado: 2233.1 mm Anomalia: -369.8 mm

Observado Climatologia



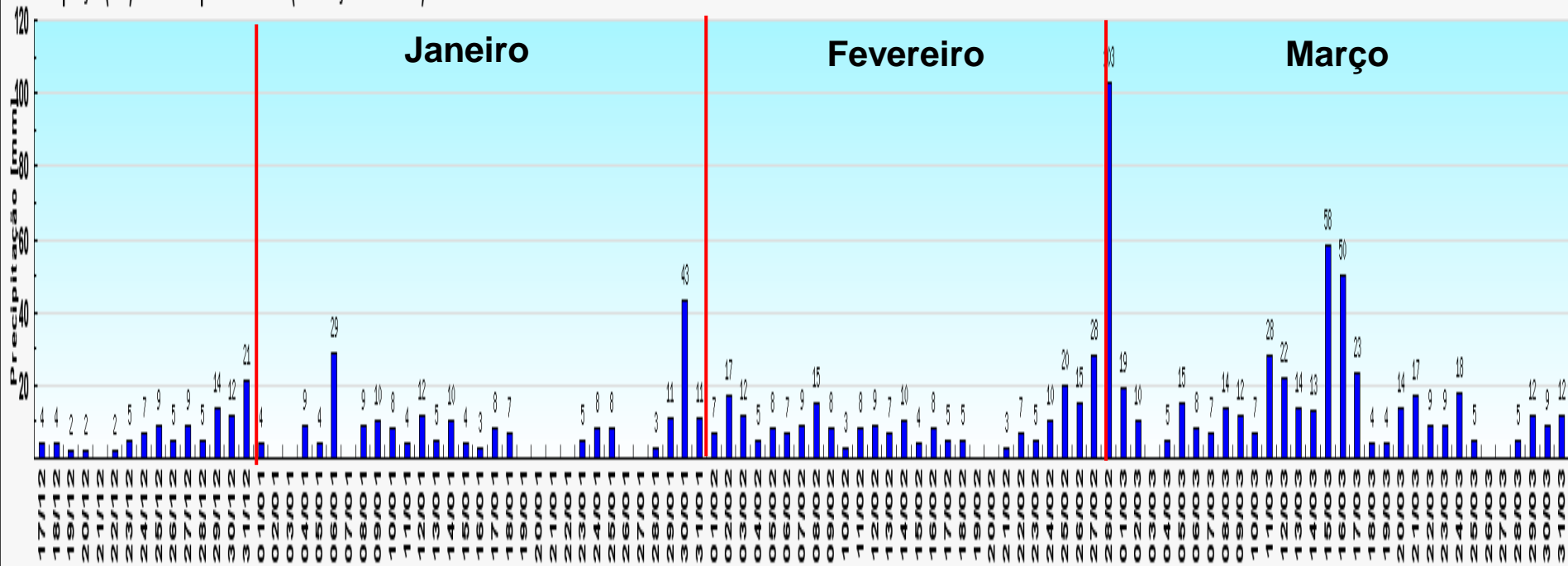
SORRISO - MT : Chuva de outubro e novembro (1950 - 2020)



SORRISO - MT : Janeiro a Março/2021



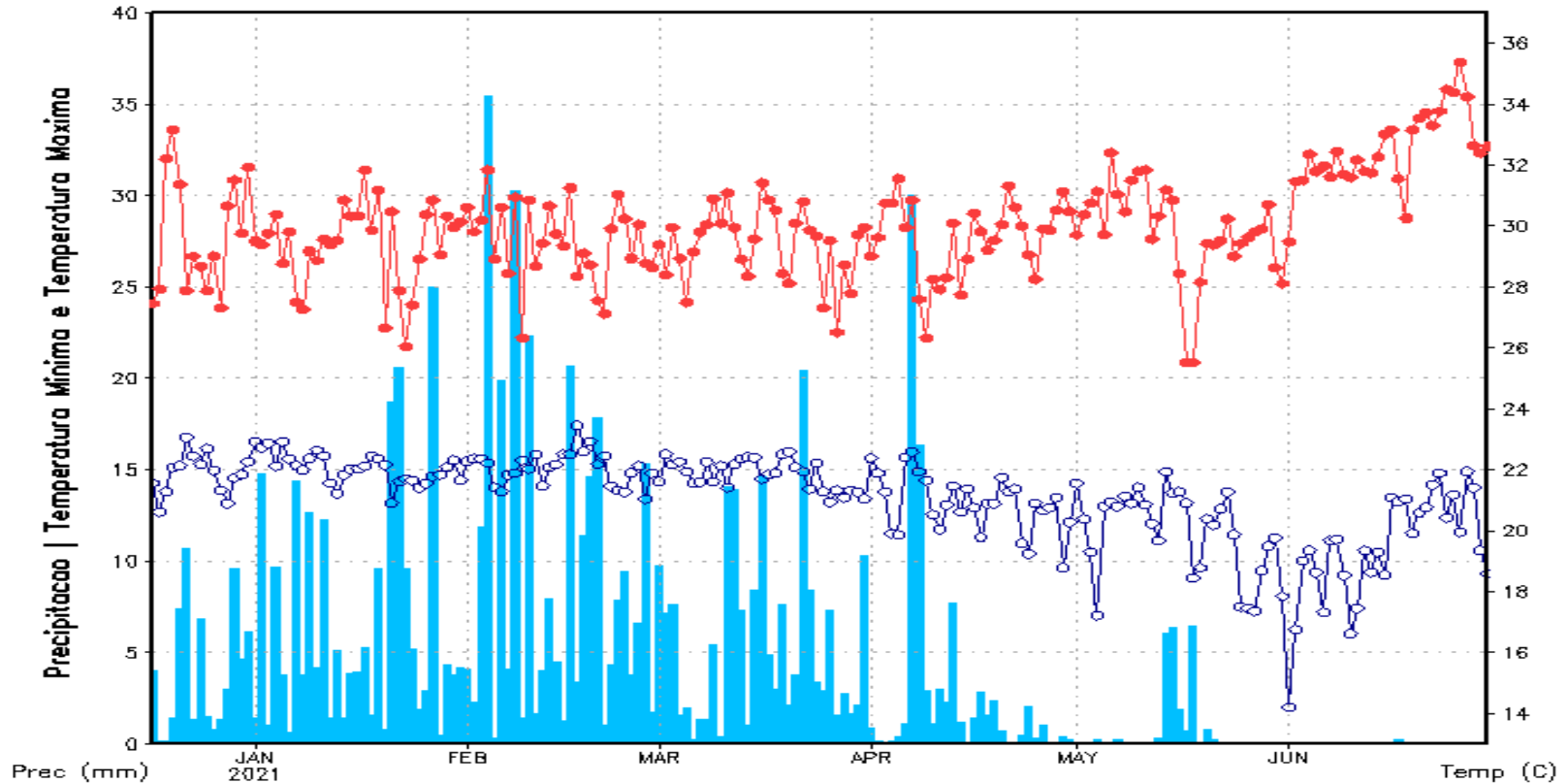
Precipitação (mm) Acumulada para Sorriso-MT (Atualização: 15/12/2020)



SORRISO - MT : Janeiro a Junho/2021



Modelo ECMWF – Sorriso – MT

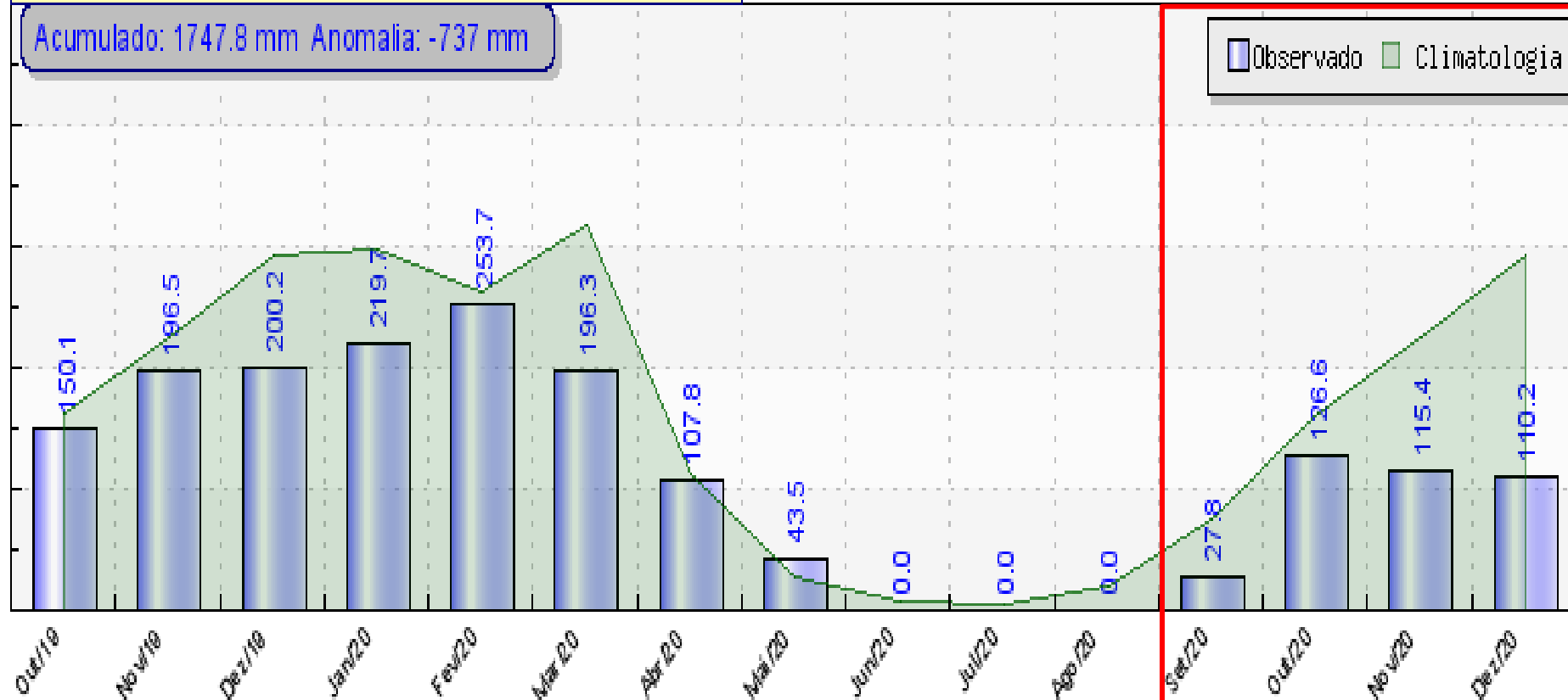


Primavera do Leste - MT : Chuva Safra 2020/2021



Precipitação Observada em Primavera do Leste-MT de Out/19 à Dez/20

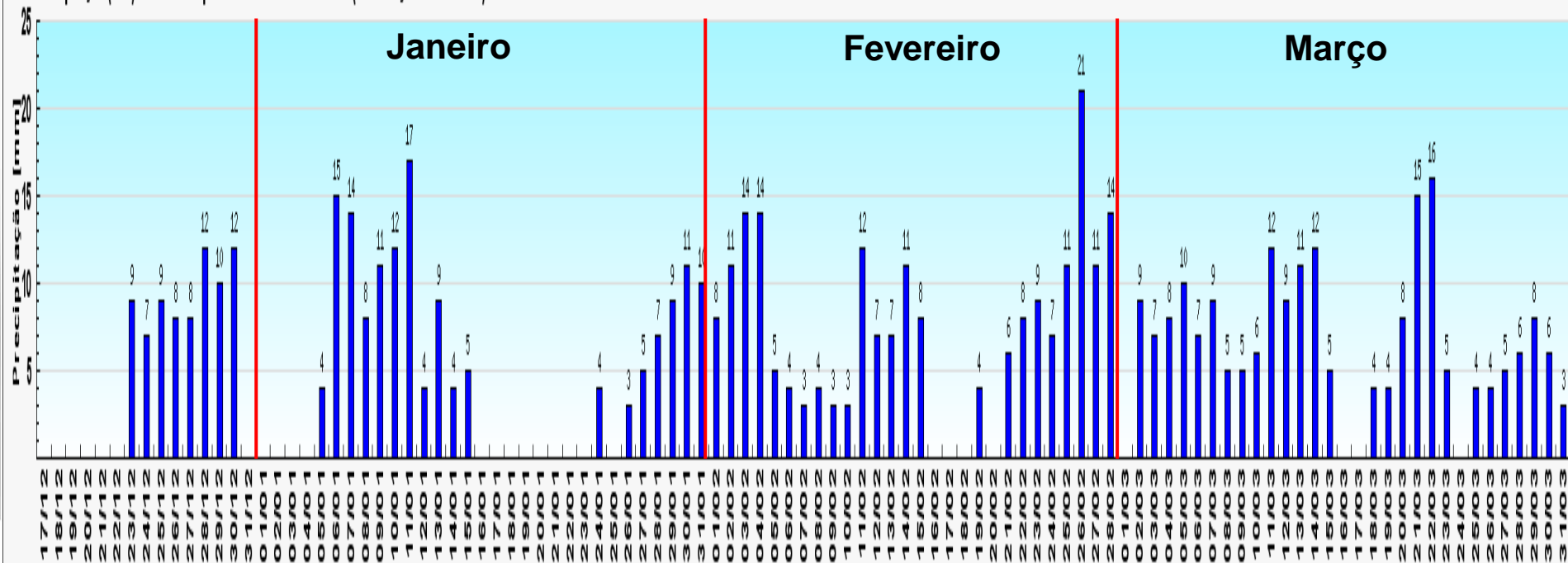
Acumulado: 1747.8 mm Anomalia: -737 mm



Primavera do Leste- MT : Janeiro a Março/2021



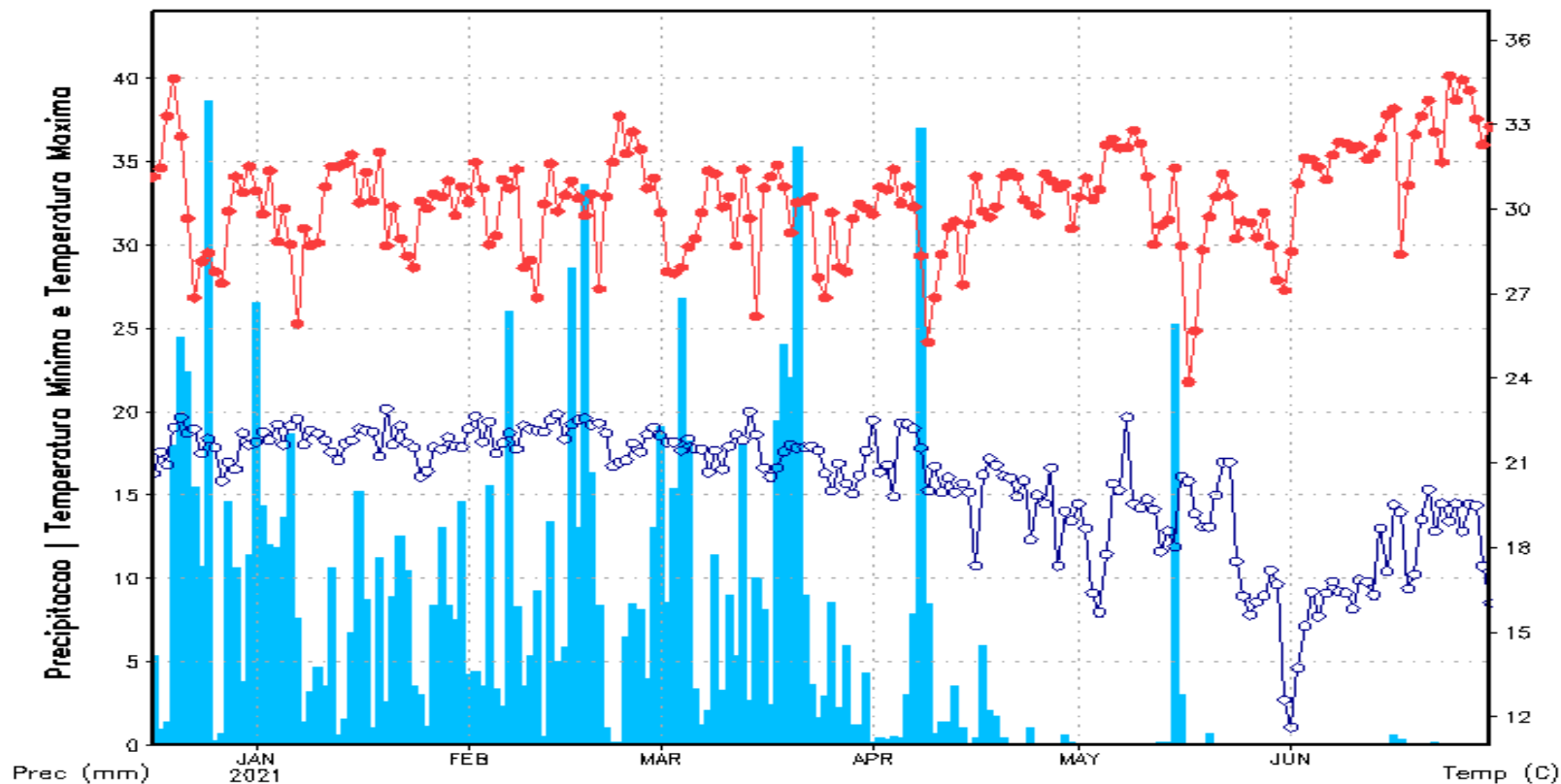
Precipitação (mm) Acumulada para Primavera do Leste-MT (Atualização: 15/12/2020)



Primavera do Leste- MT : Janeiro a Junho/2021



Modelo ECMWF – Primavera do Leste – MT



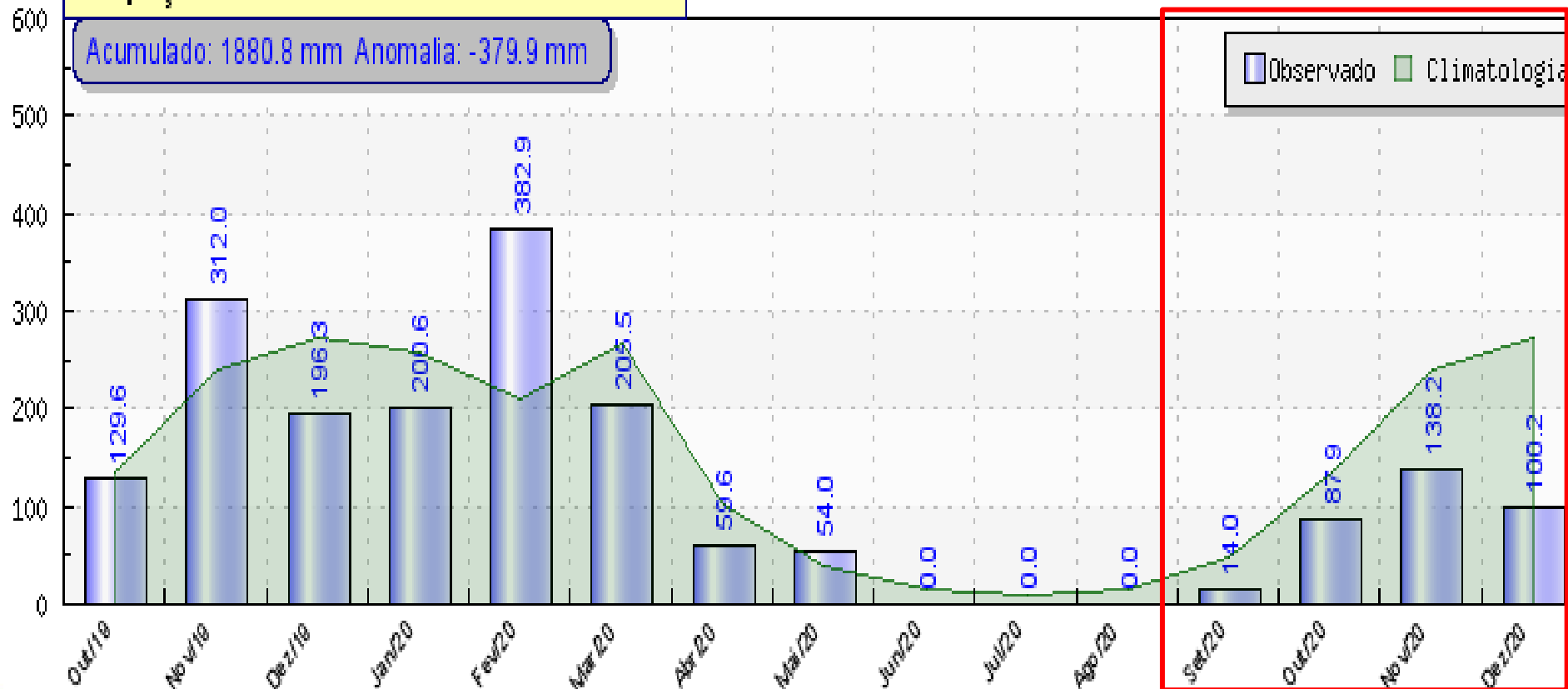
(Centro Europeu)

1104mm



Precipitação Observada em Rio Verde-GO de Out/19 à Dez/20

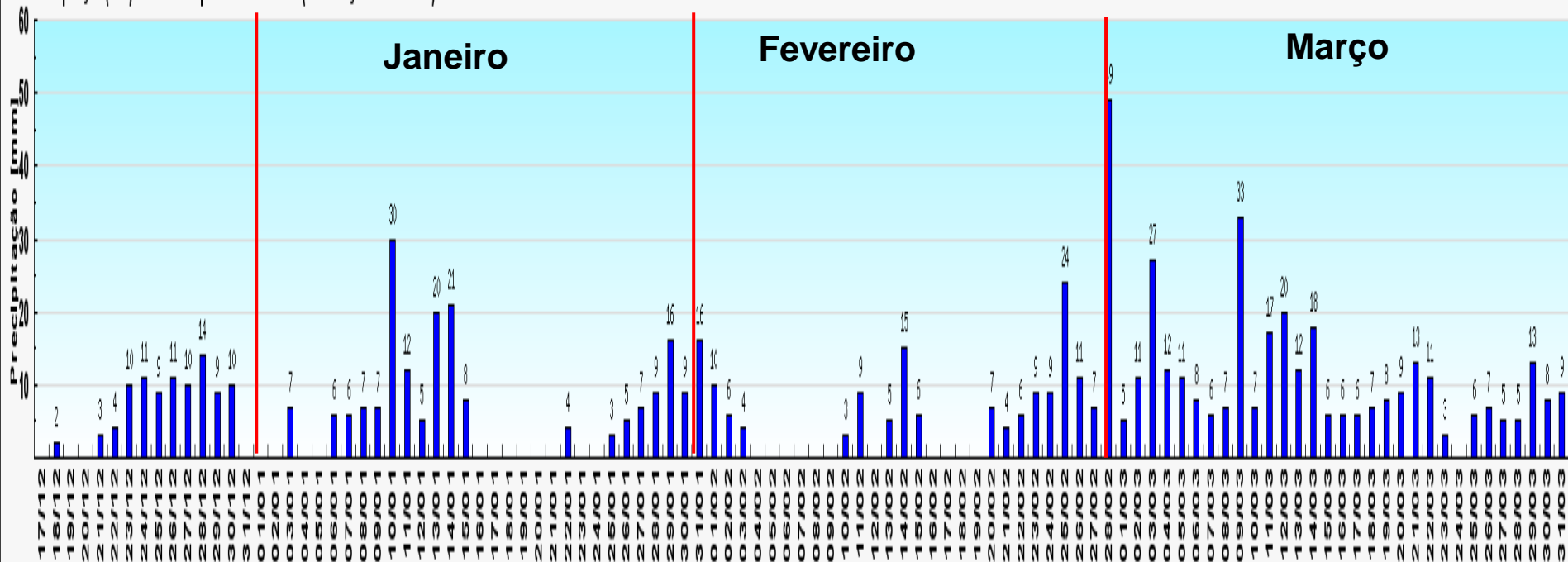
Acumulado: 1880.8 mm Anomalia: -379.9 mm



RIO VERDE - GO : Janeiro a Março/2021



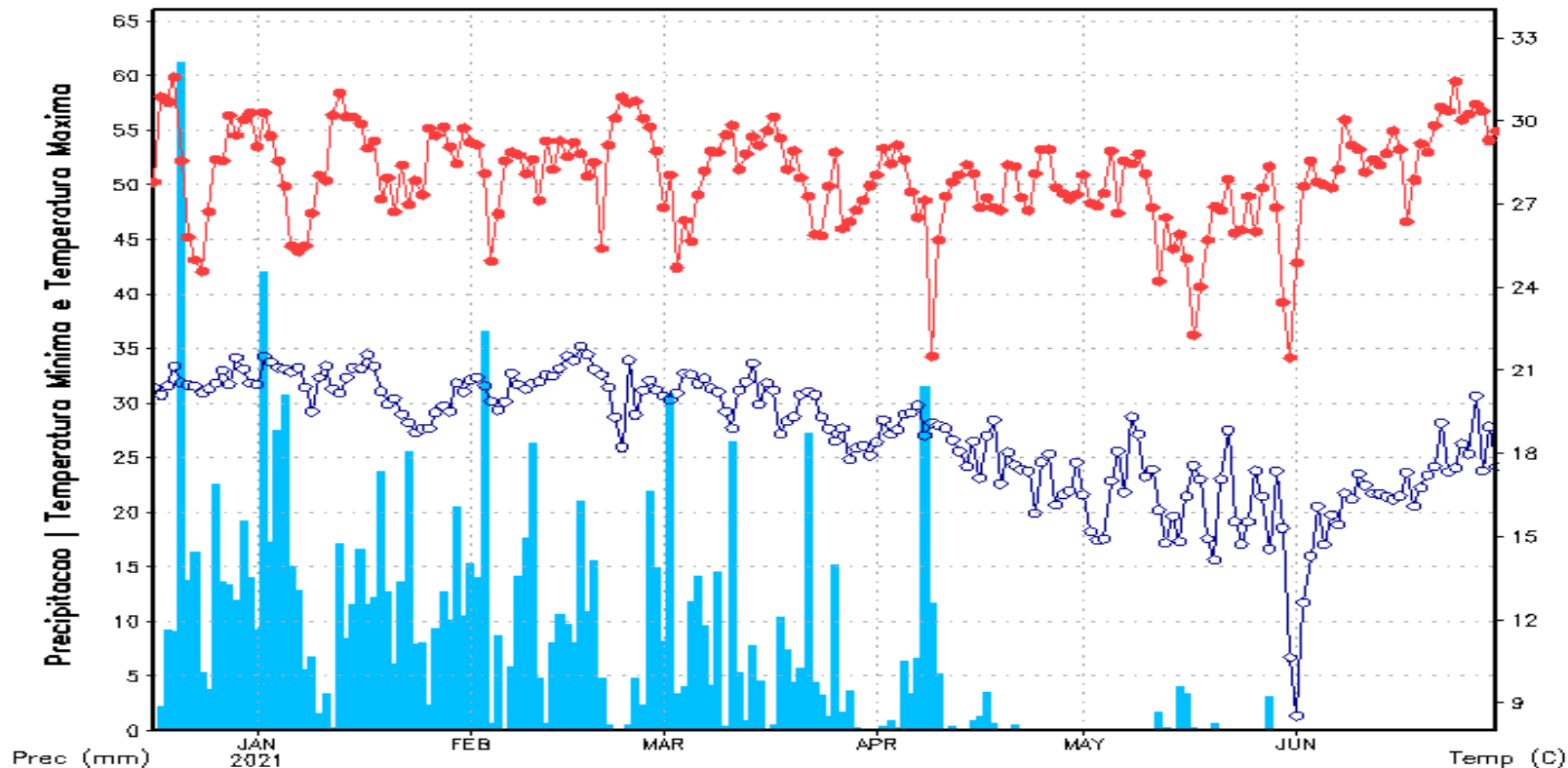
Precipitação (mm) Acumulada para Rio Verde-GO (Atualização: 15/12/2020)



RIO VERDE - GO : Janeiro a Junho/2021



Modelo ECMWF - RioVerde-GO



(Centro Europeu)

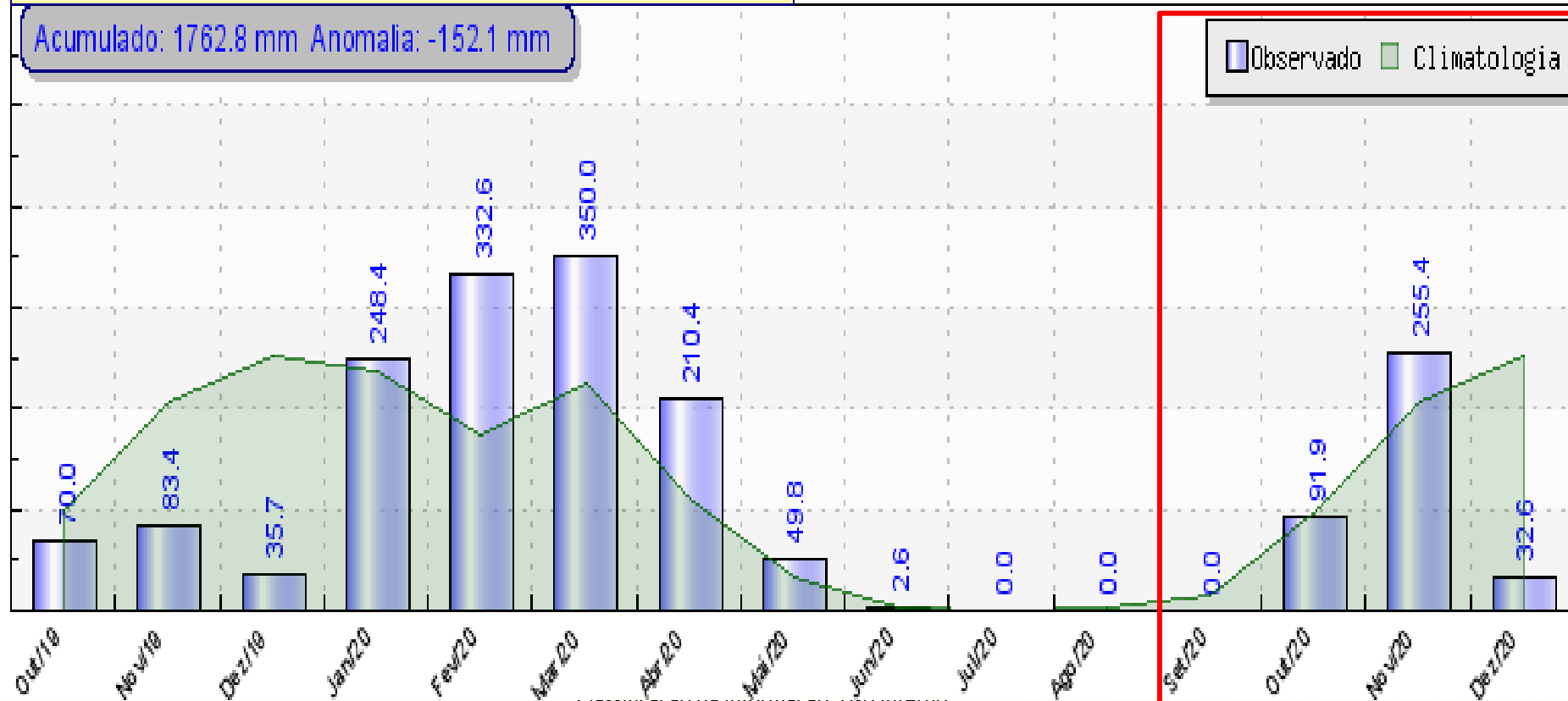
1209mm

LEM - BA: Chuva Safra 2020/2021



Precipitação Observada em Luis Eduardo Magalhães-BA de Out/19 à Dez/20

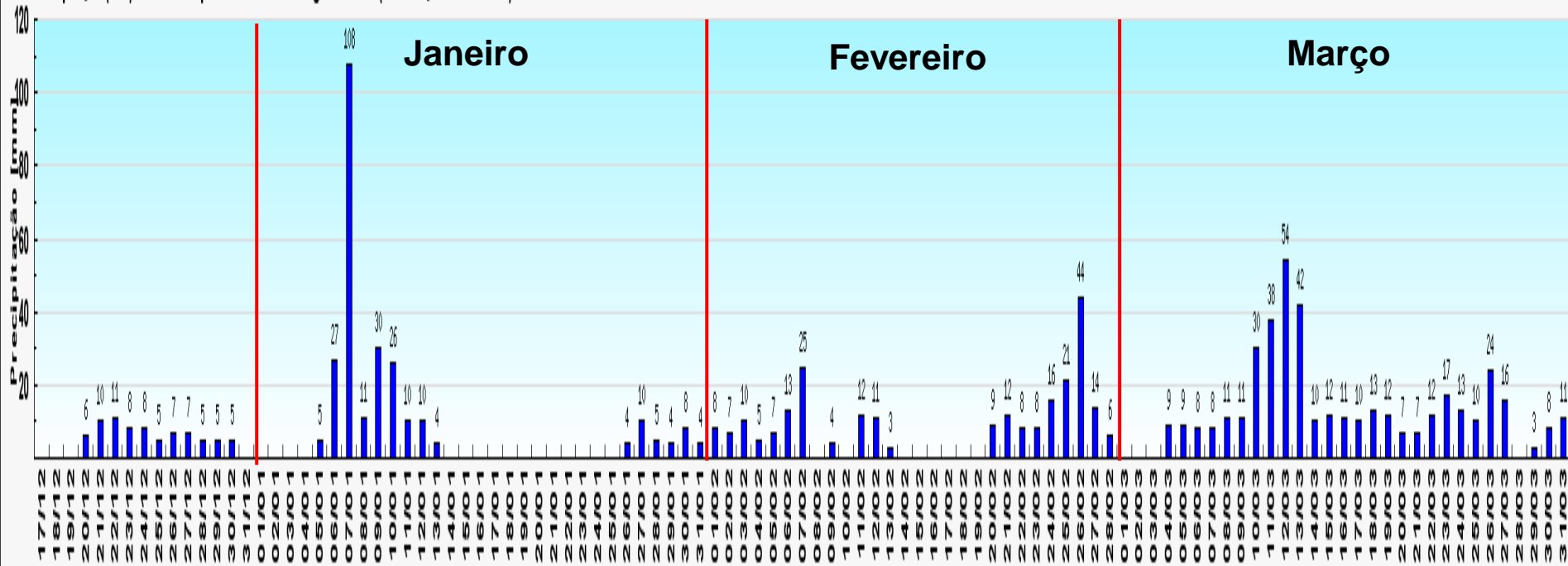
Acumulado: 1762.8 mm Anomalia: -152.1 mm



LEM - BA : Janeiro a Março/2021



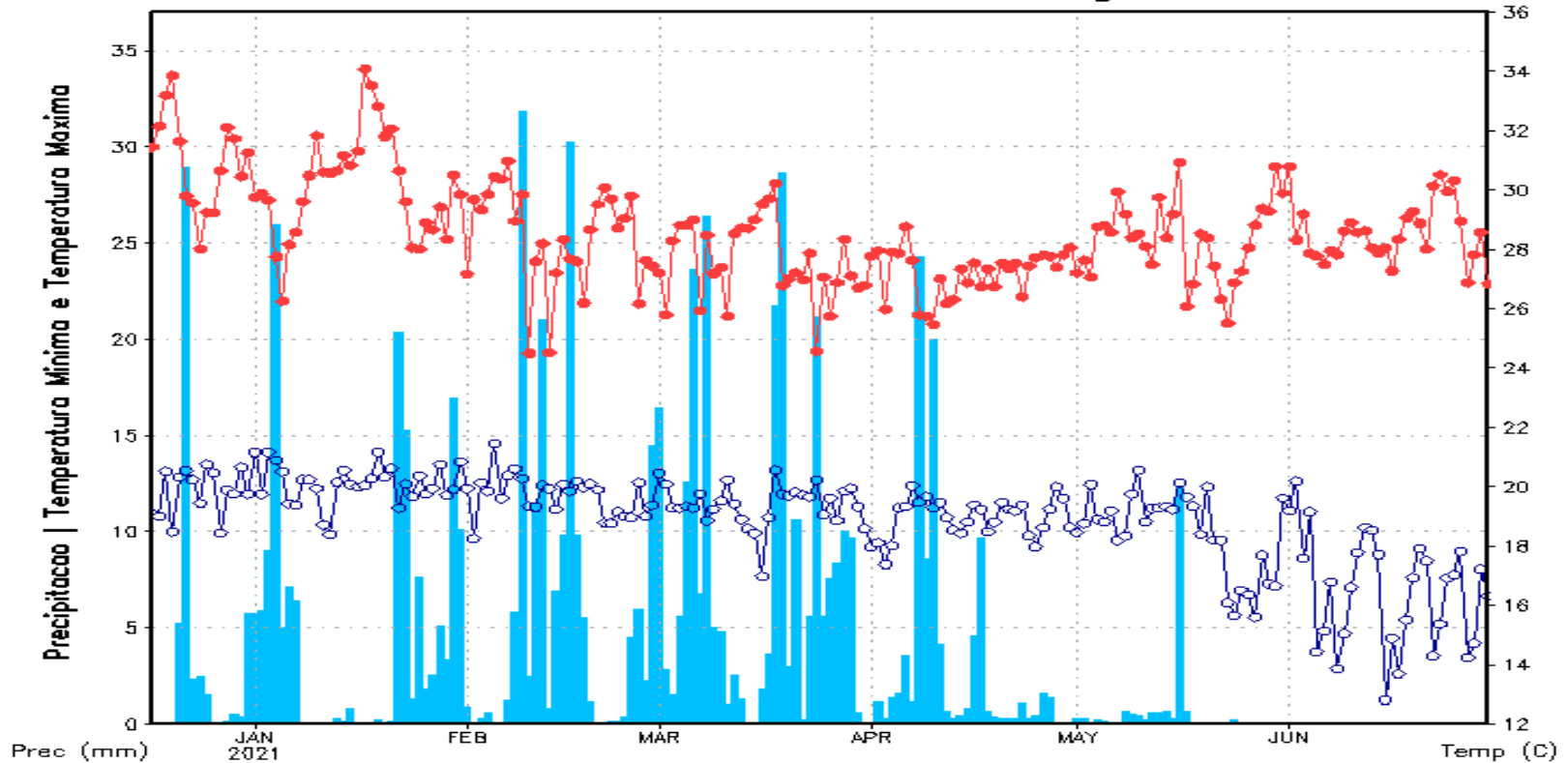
Precipitação (mm) Acumulada para Luis Eduardo Magalhães-BA (Atualização: 15/12/2020)



(CFSv2/NOAA)



Modelo ECMWF – LuisEduardoMagalhaes–BA



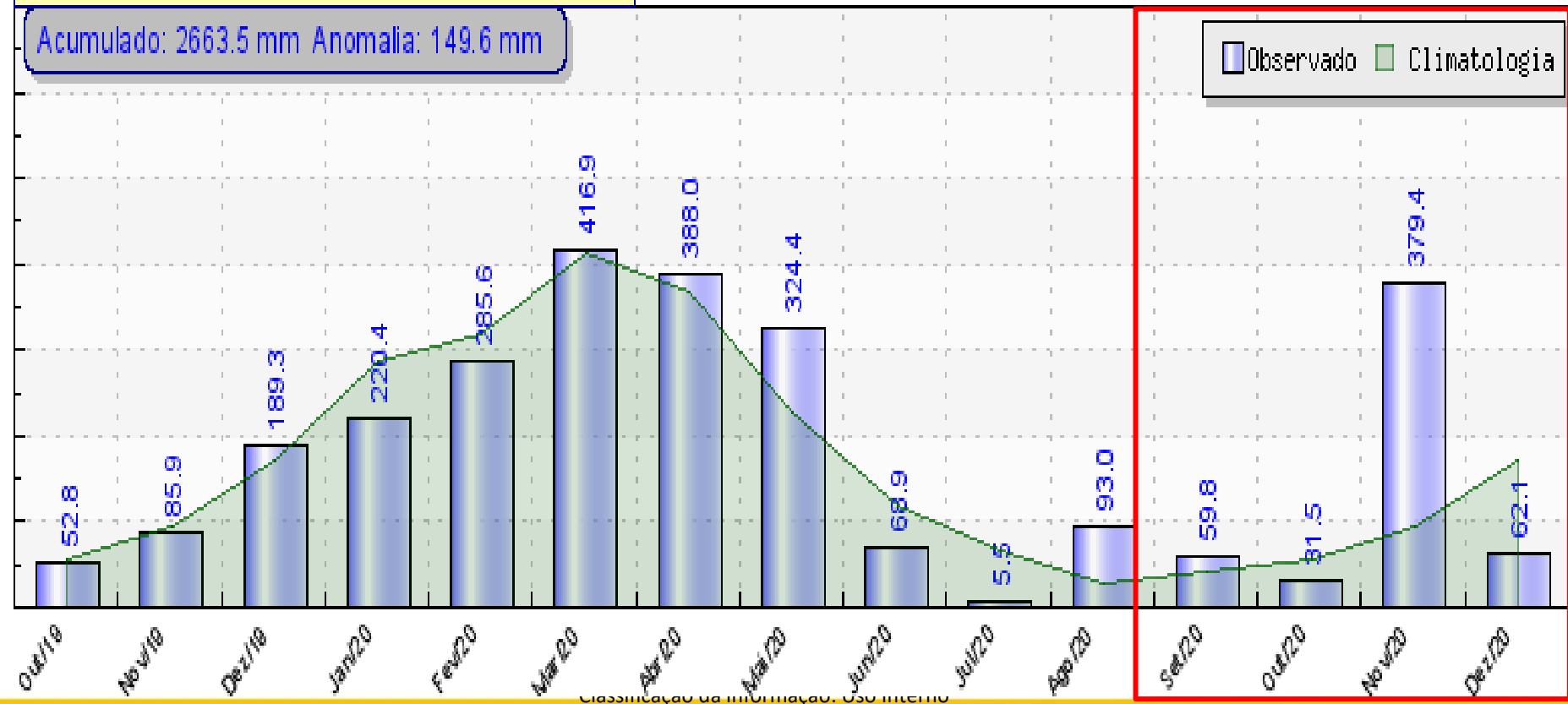
(Centro Europeu)

713mm



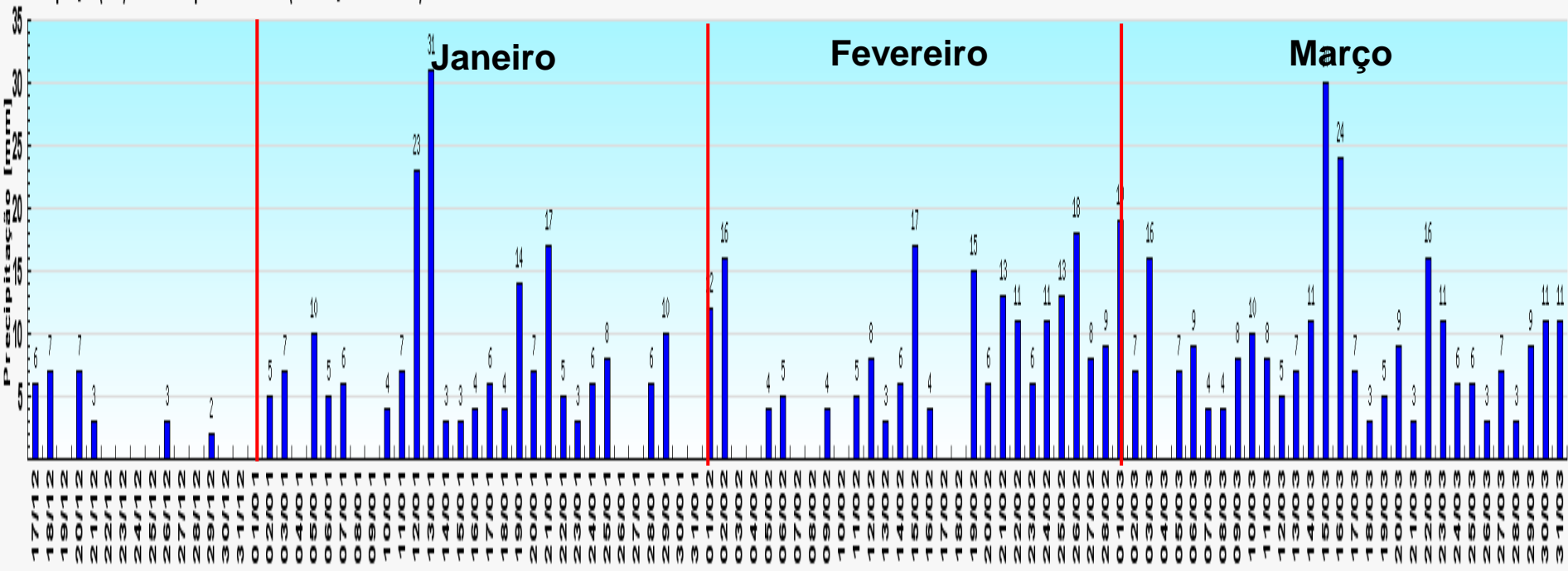
Precipitação Observada em Altamira-PA de Out/19 à Dez/20

Acumulado: 2663.5 mm Anomalia: 149.6 mm





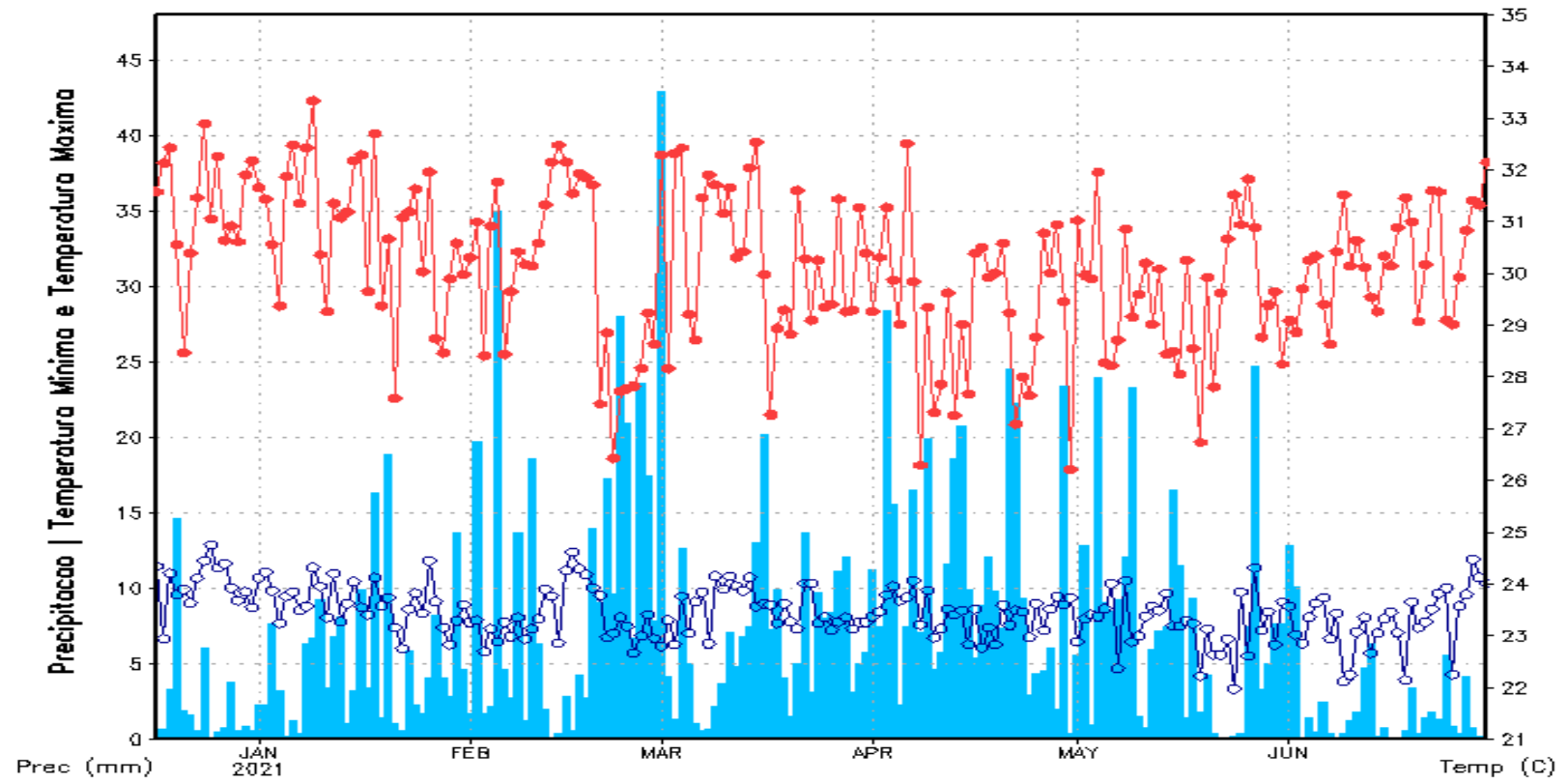
Precipitação (mm) Acumulada para Altamira-PA (Atualização: 15/12/2020)



Altamira - PA : Janeiro a Junho/2021



Modelo ECMWF – Altamira–PA



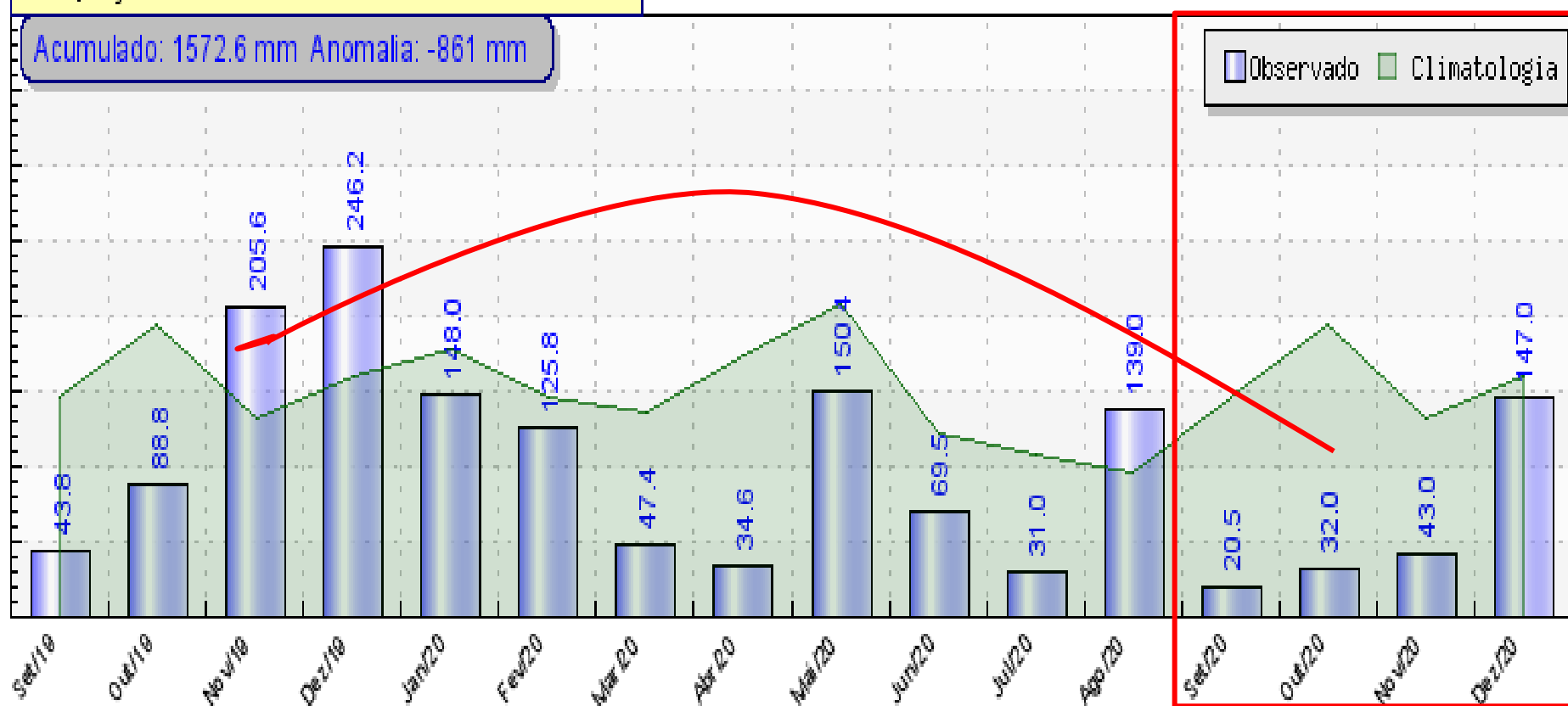
(Centro Europeu)

1318mm

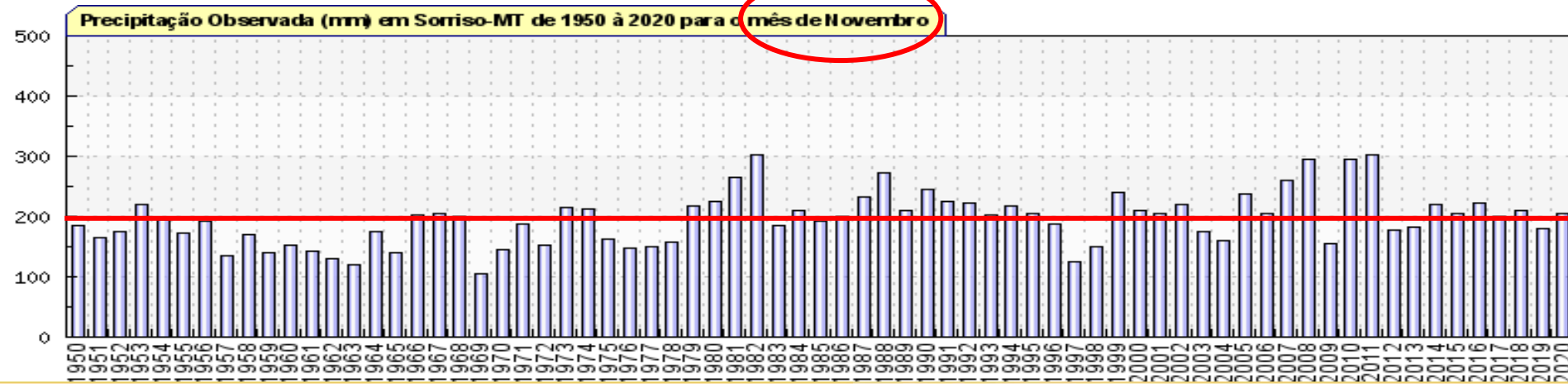
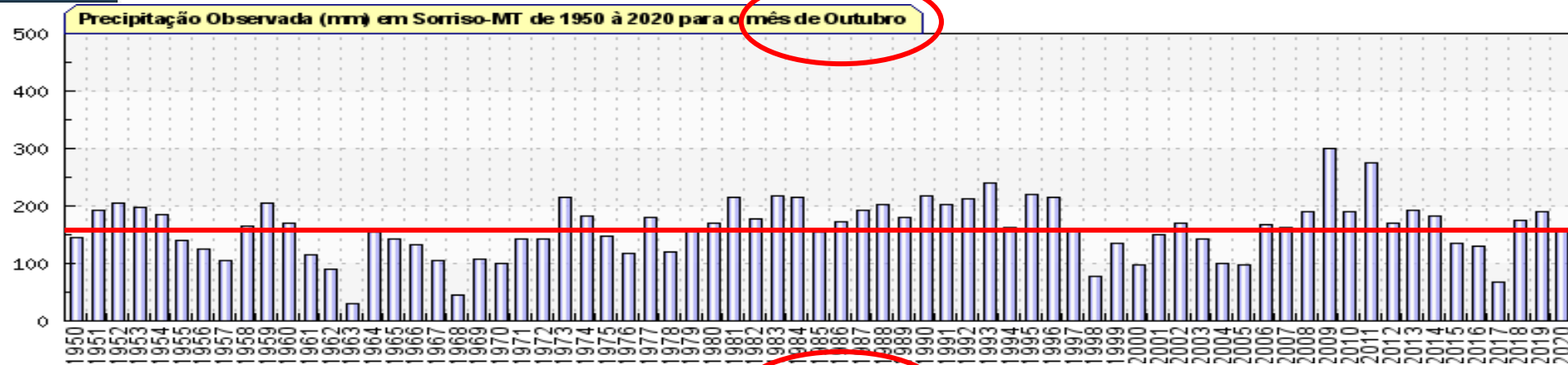


Precipitação Observada em Cascavel-PR de Set/19 à Dez/20

Acumulado: 1572.6 mm Anomalia: -861 mm



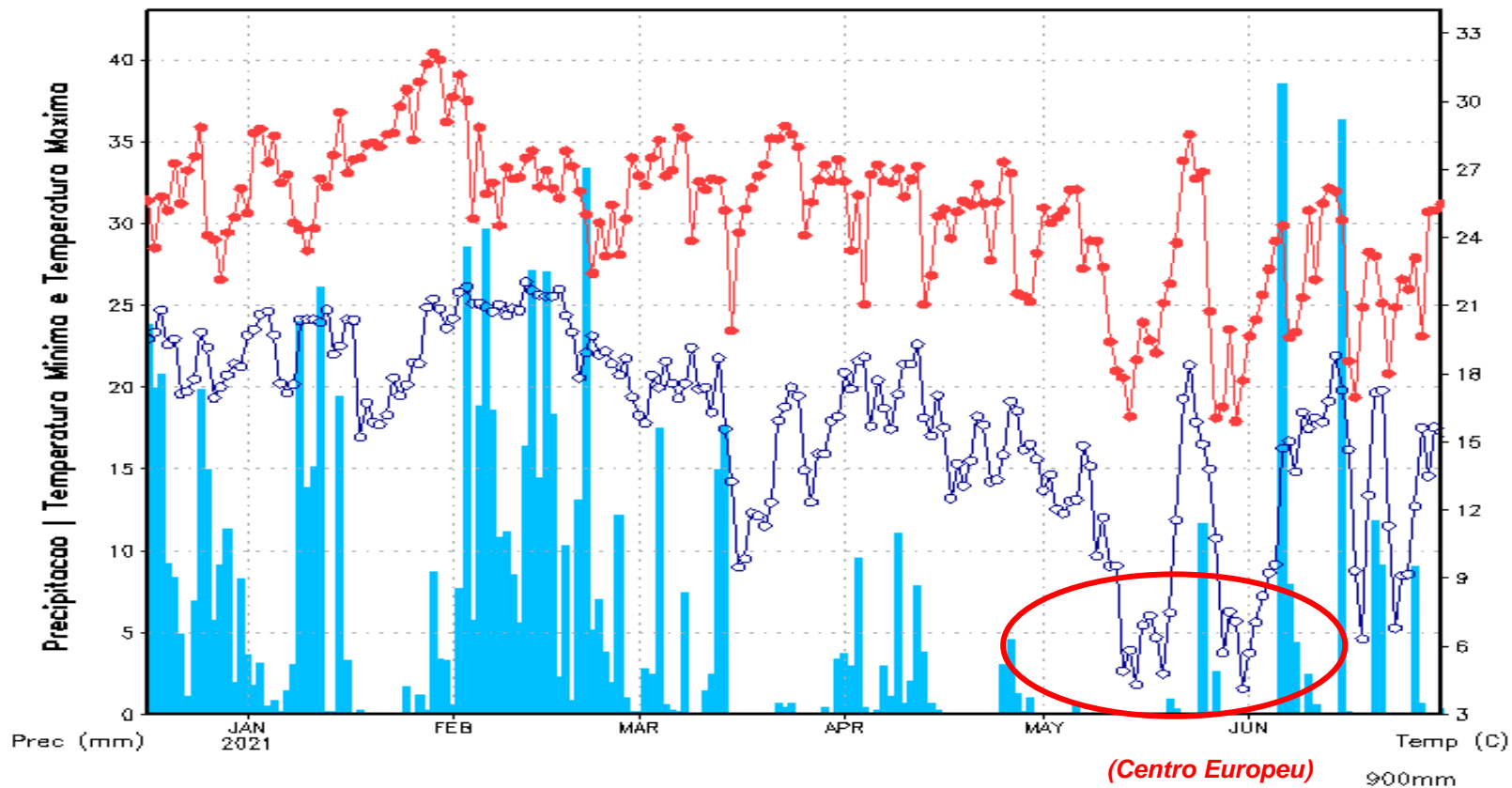
SORRISO - MT : Chuva de outubro e novembro (1950 - 2020)



Cascavel - PR: Janeiro a Junho/2021



Modelo ECMWF - Cascavel - PR

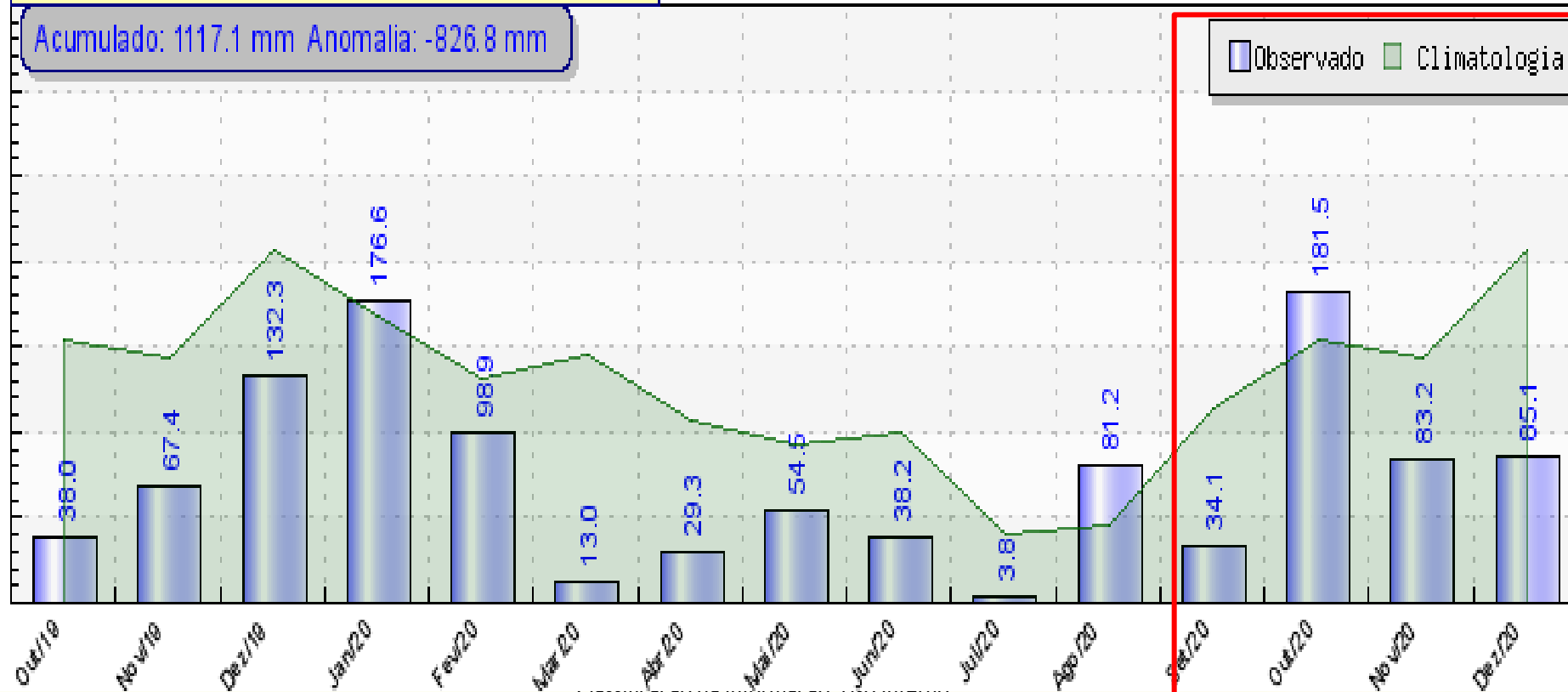


Dourados - MS : Chuva Safra 2020/2021



Precipitação Observada em Dourados-MS de Out/19 à Dez/20

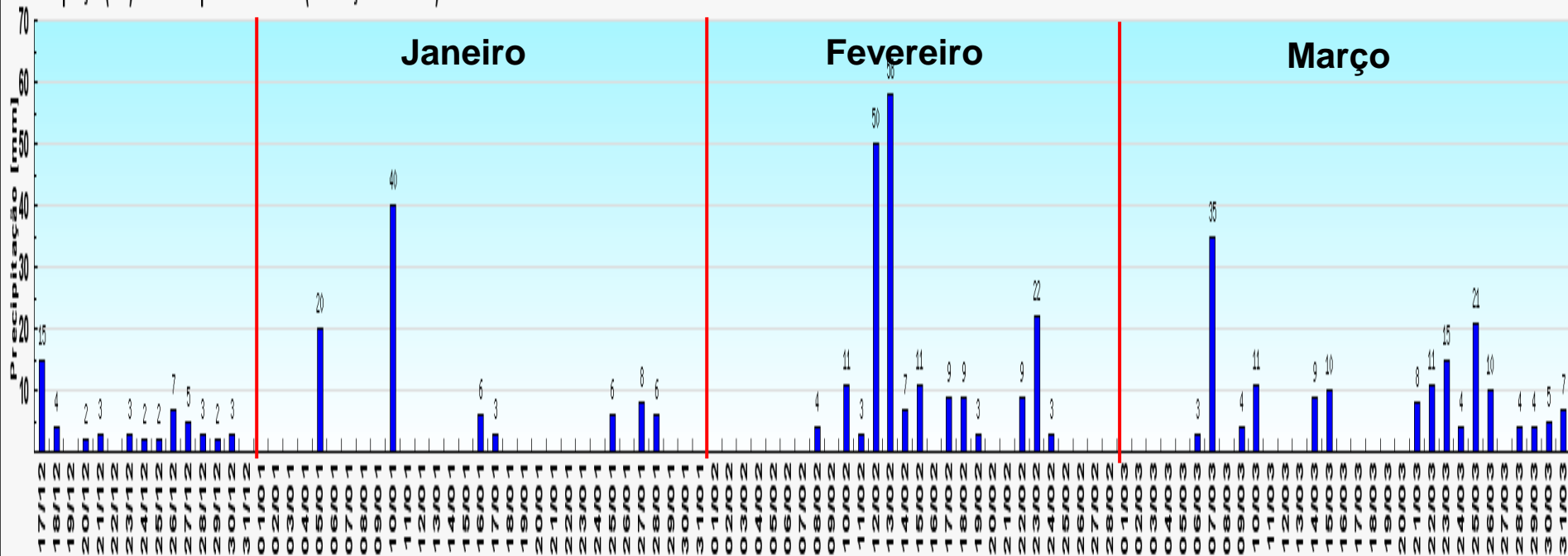
Acumulado: 1117.1 mm Anomalia: -826.8 mm



Dourados - MS : Janeiro a Março/2021



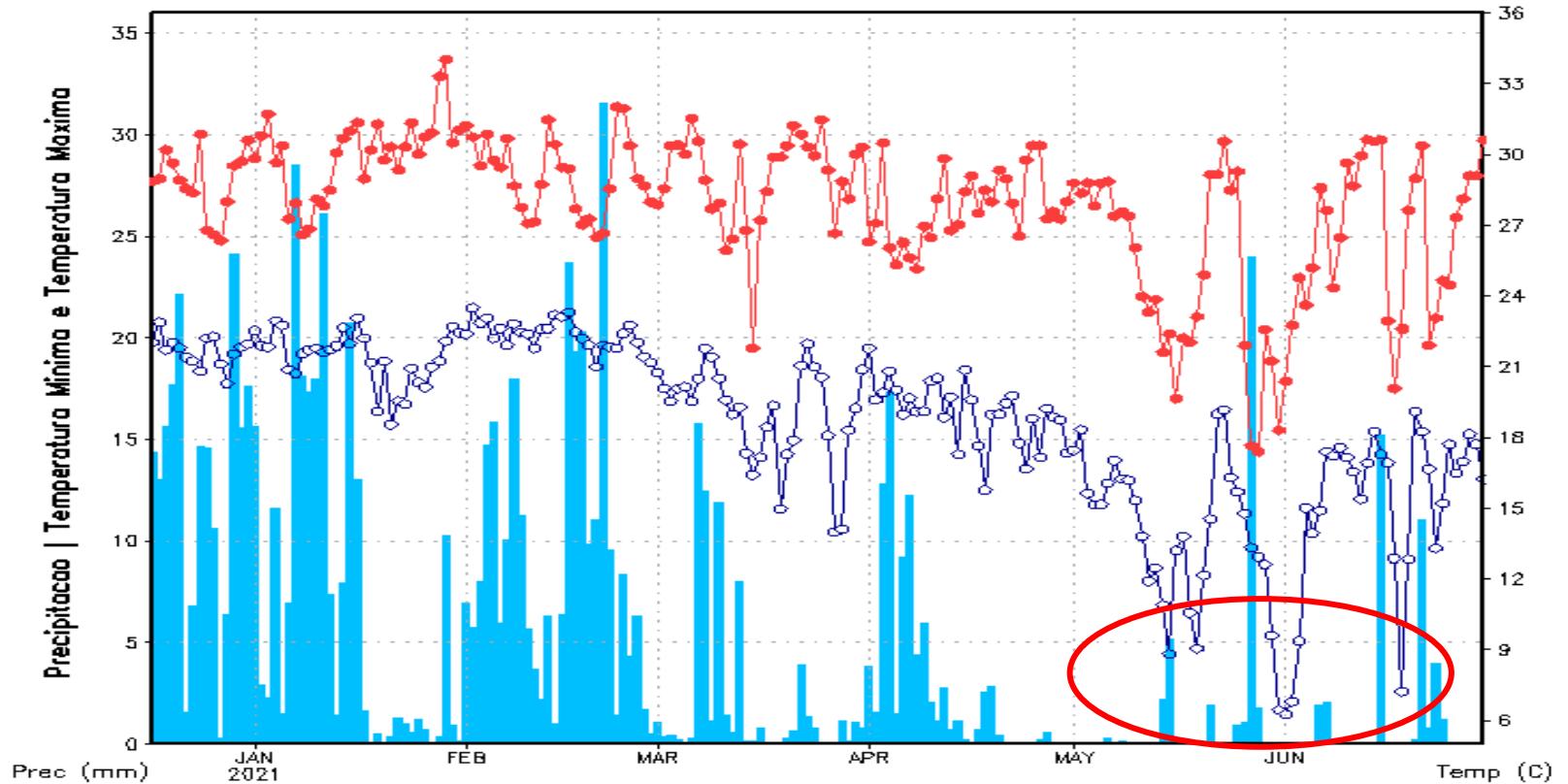
Precipitação (mm) Acumulada para Dourados-MS (Atualização: 15/12/2020)



Dourados - MS: Janeiro a Junho/2021



Modelo ECMWF – Dourados–MS



(Centro Europeu)

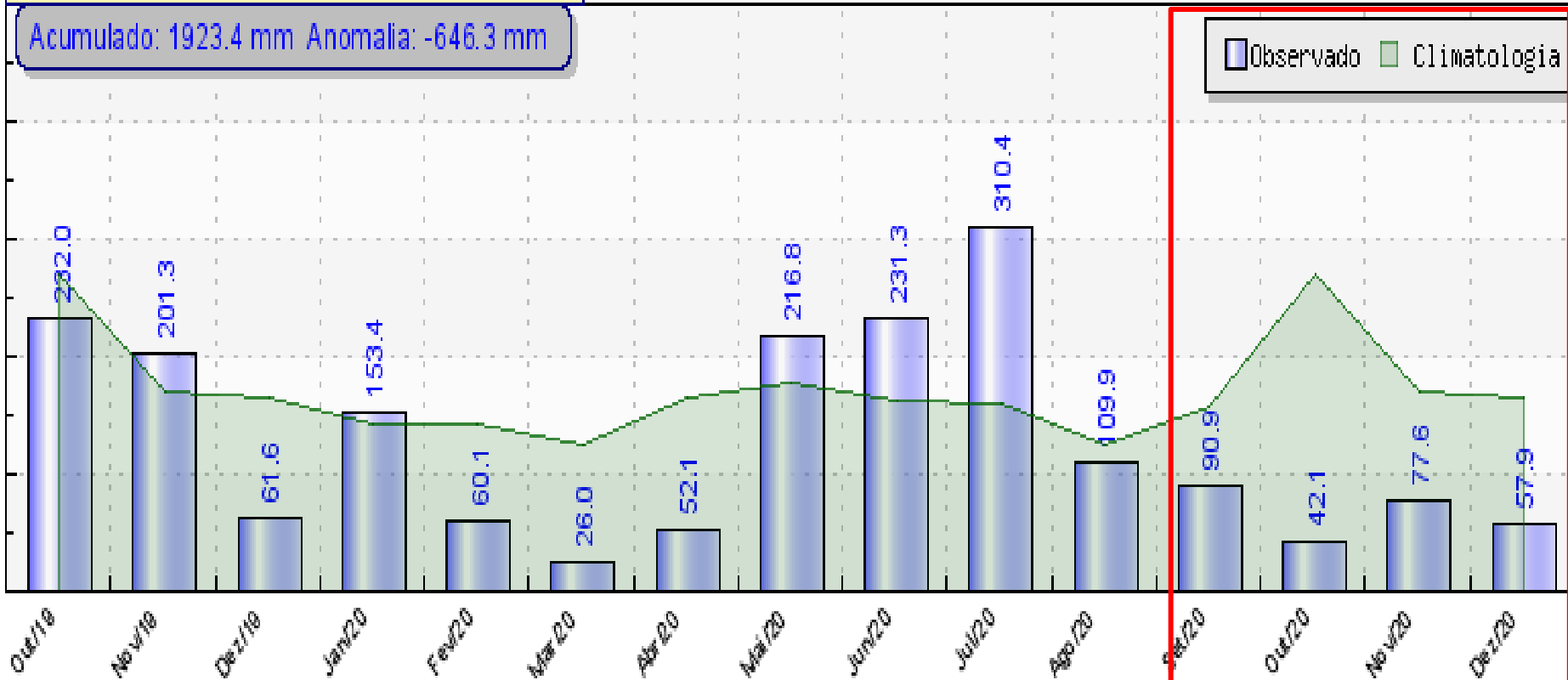
895mm

IJUI - RS: Chuva Safra 2020/2021



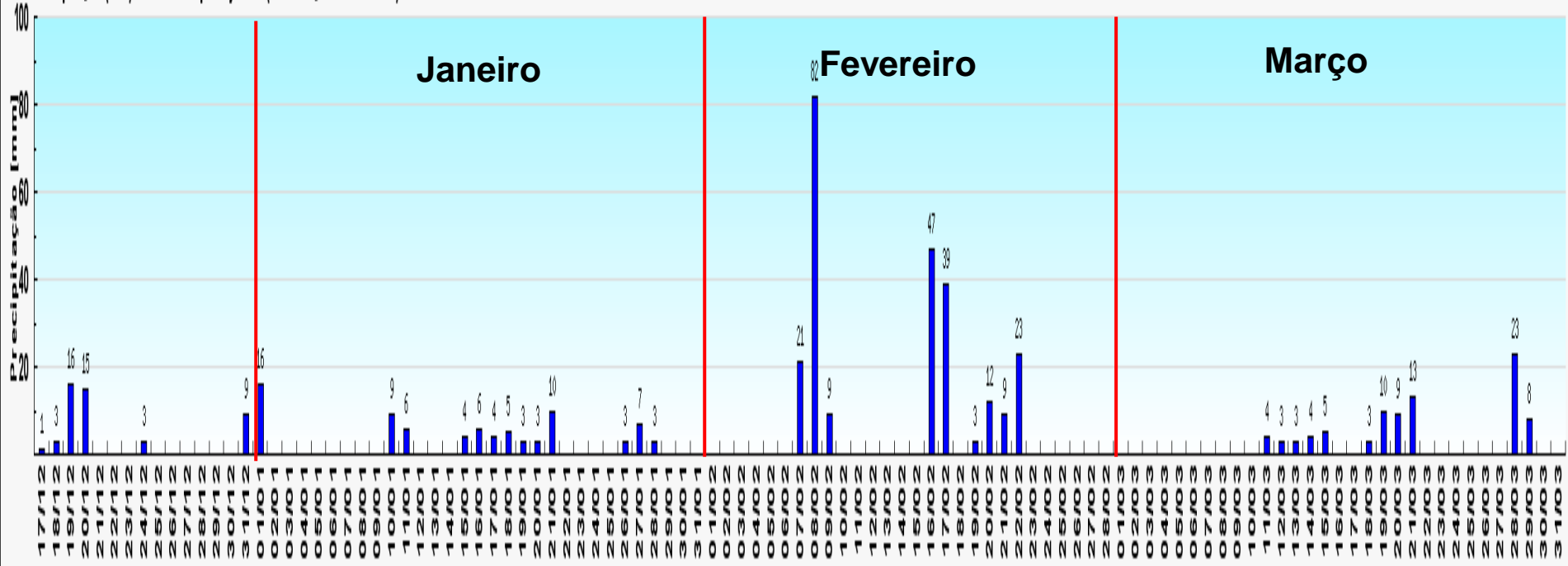
Precipitação Observada em Ijuí-RS de Out/19 à Dez/20

Acumulado: 1923.4 mm Anomalia: -646.3 mm



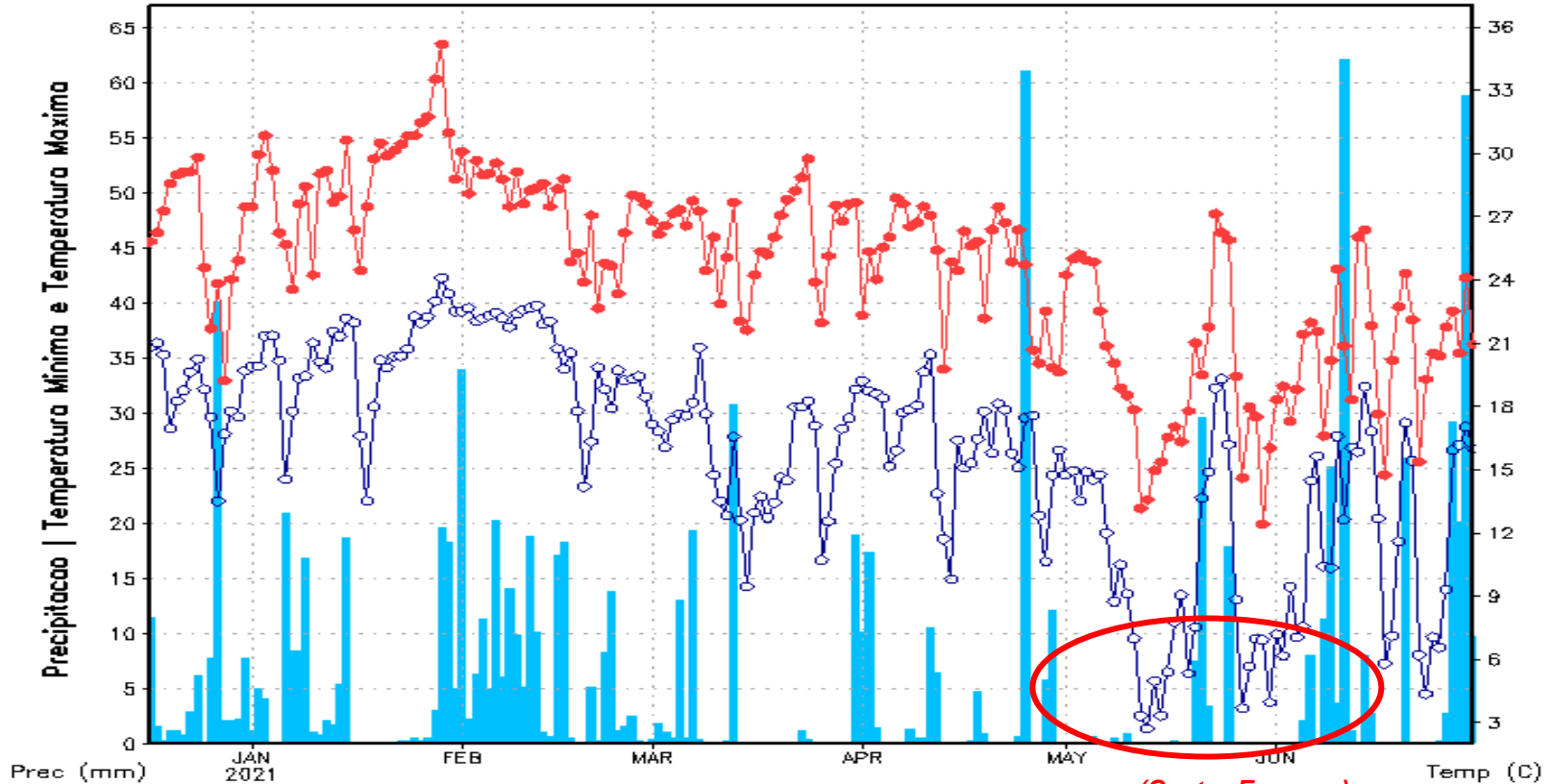


Precipitação (mm) Acumulada para Ijuí-RS (Atualização: 15/12/2020)





Modelo ECMWF - Ijuí-RS



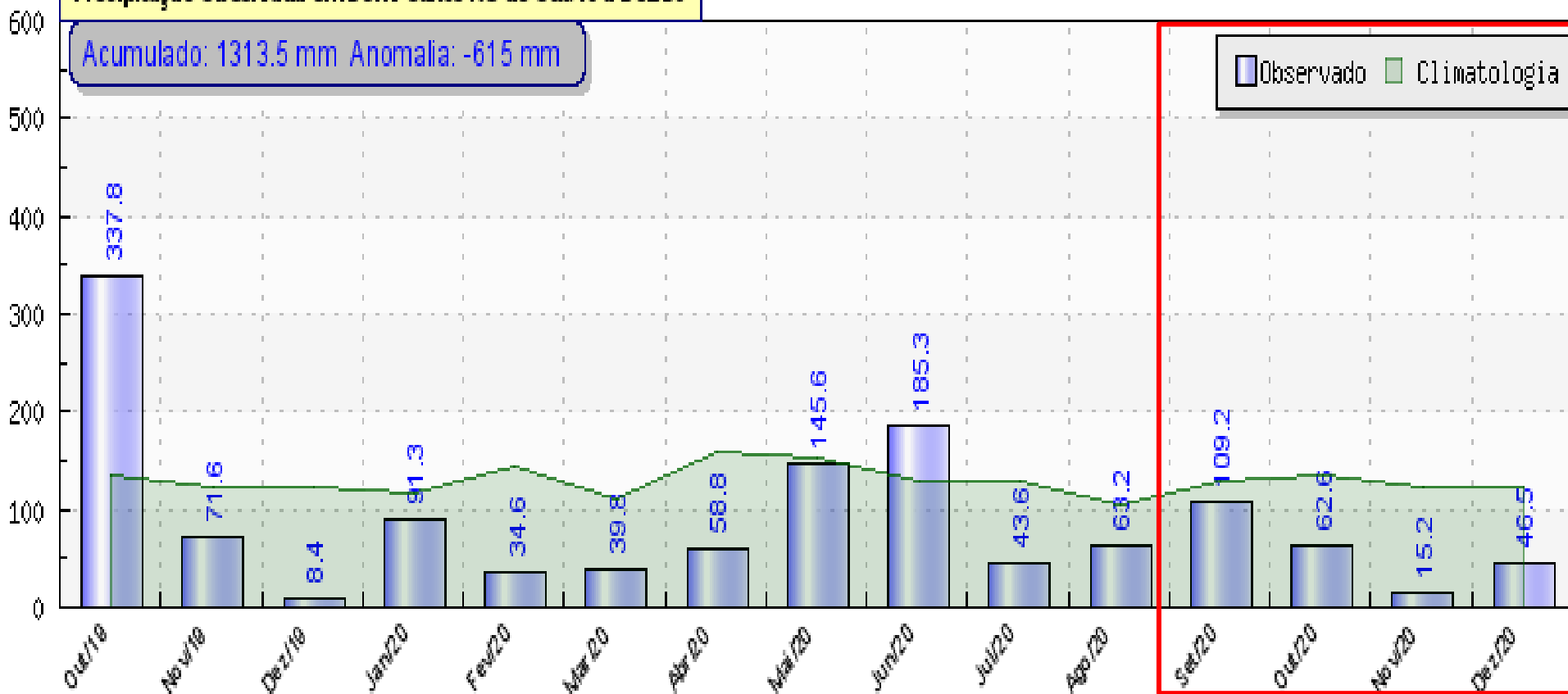
(Centro Europeu)

984mm



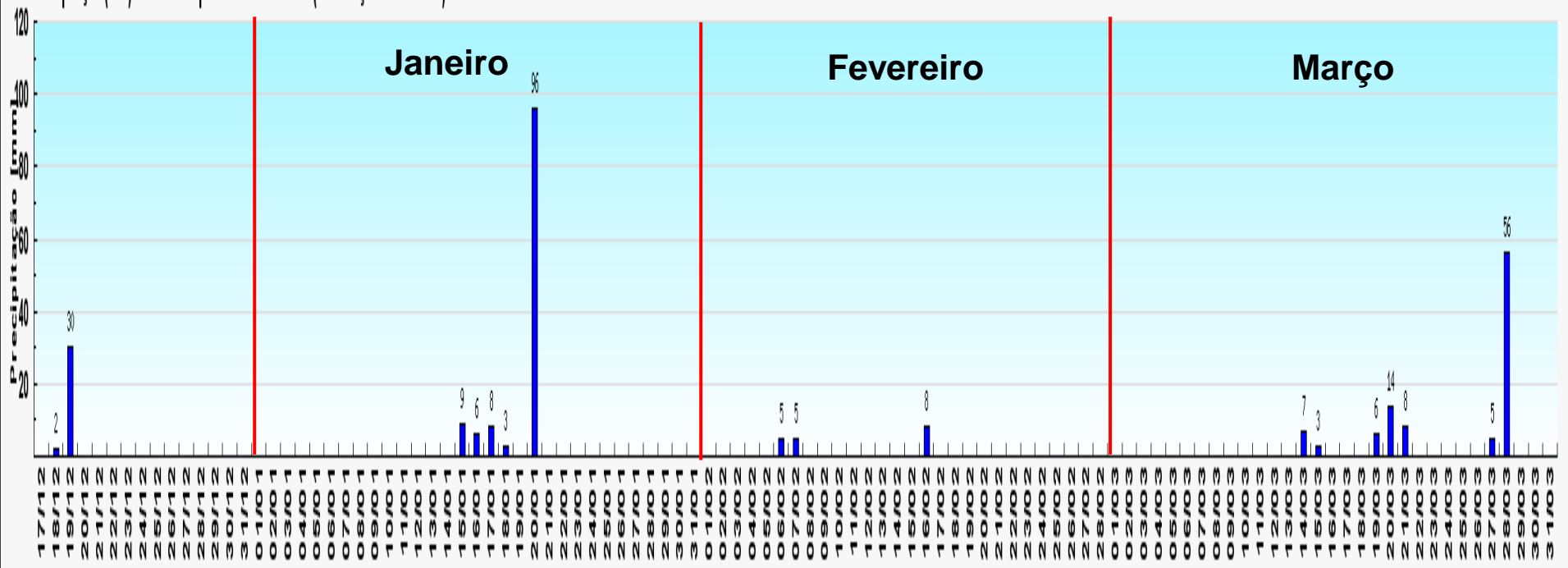
Precipitação Observada em Dom Pedrito-RS de Out/19 à Dez/20

Acumulado: 1313.5 mm Anomalia: -615 mm





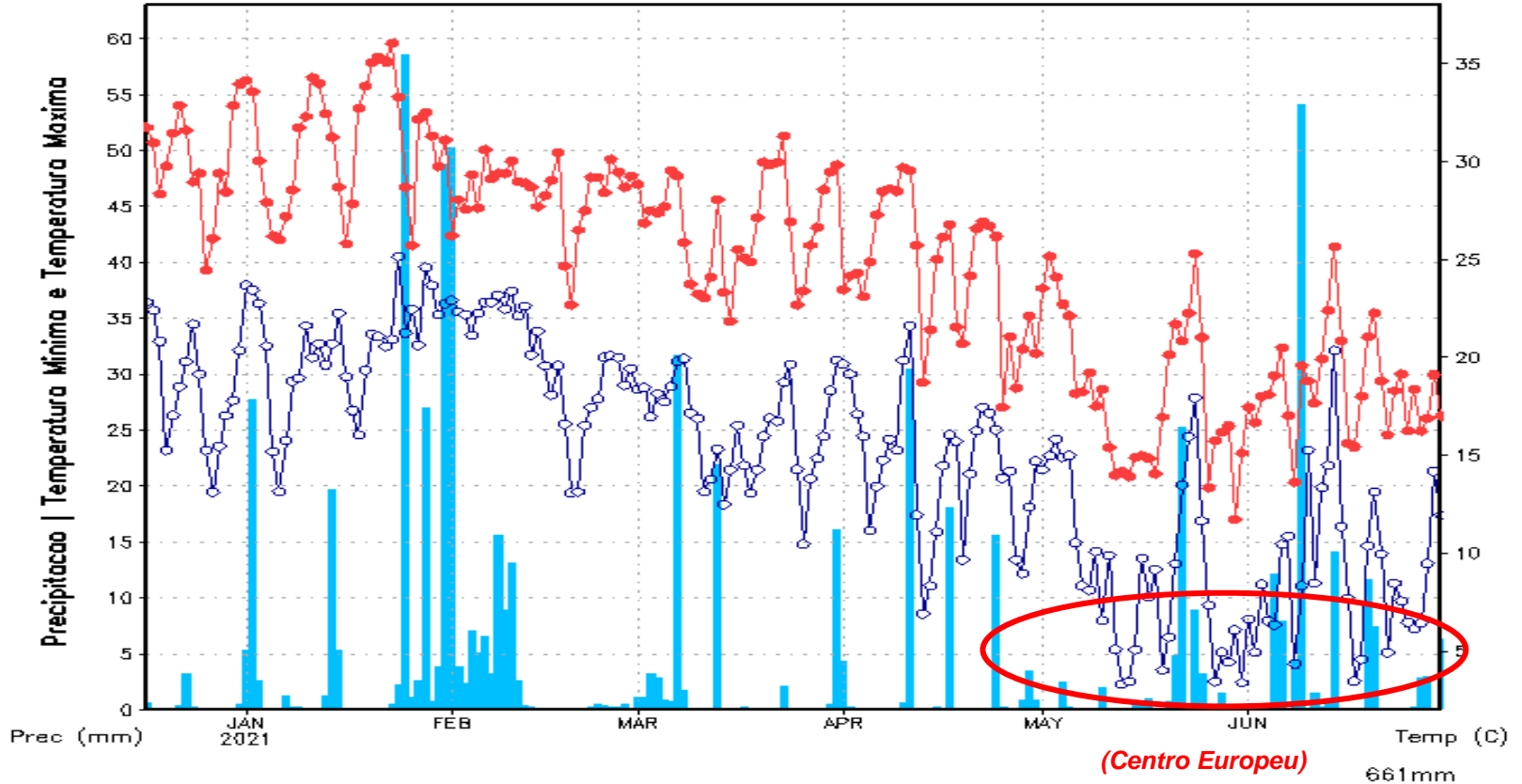
Precipitação (mm) Acumulada para DomPedrito-RS (Atualização: 15/12/2020)



Dom Pedrito - RS: Janeiro a Junho/2021



Modelo ECMWF – DomPedrito–RS



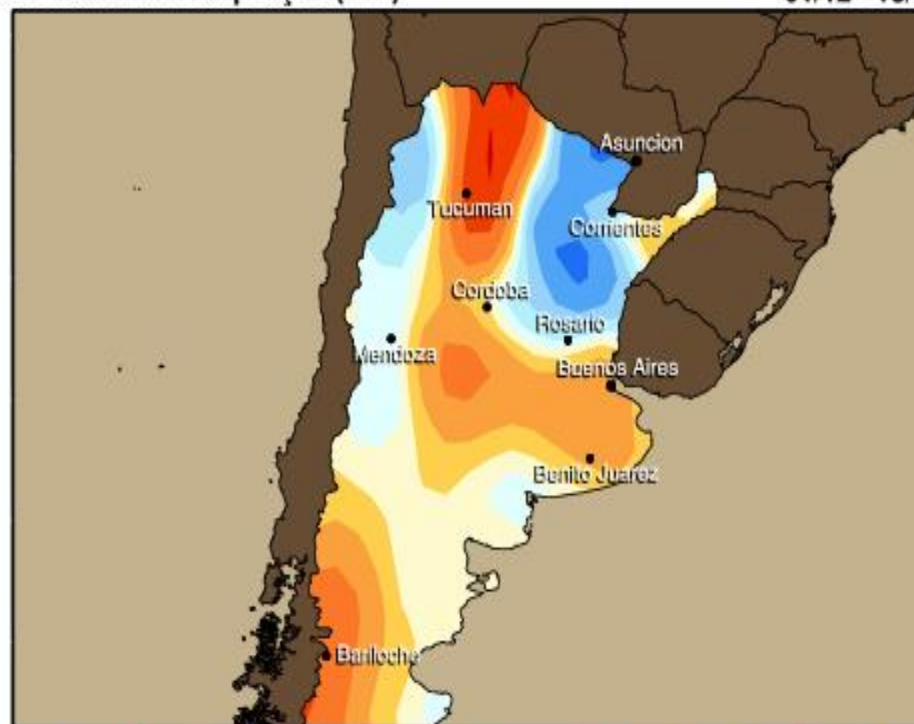
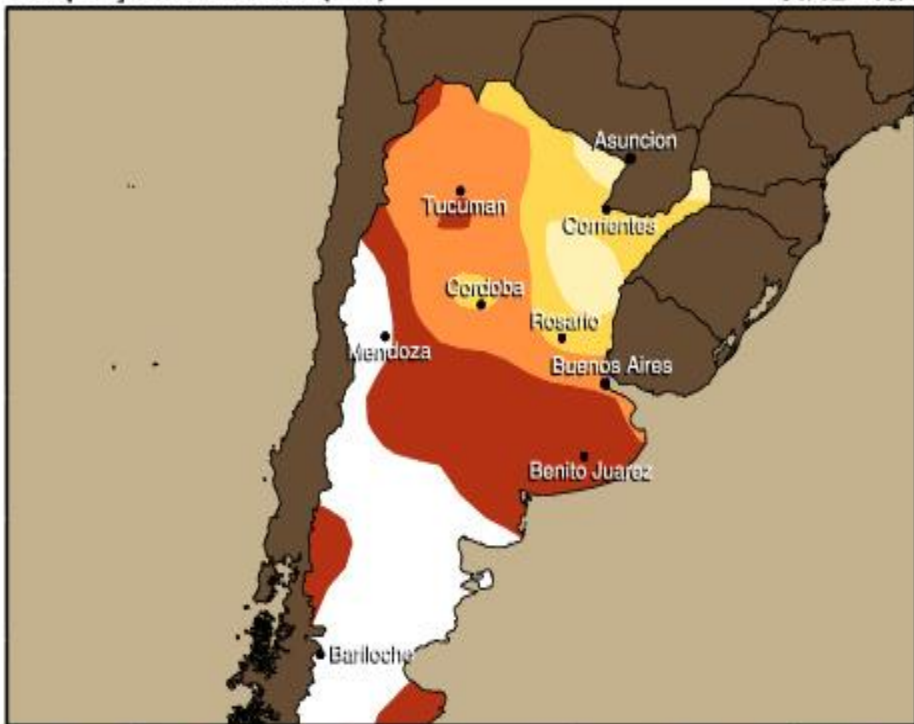
ARGENTINA: Chuva Dezembro/2020



Precipitação Acumulada (mm)

01/12 - 16/12 Anomalia da Precipitação (mm)

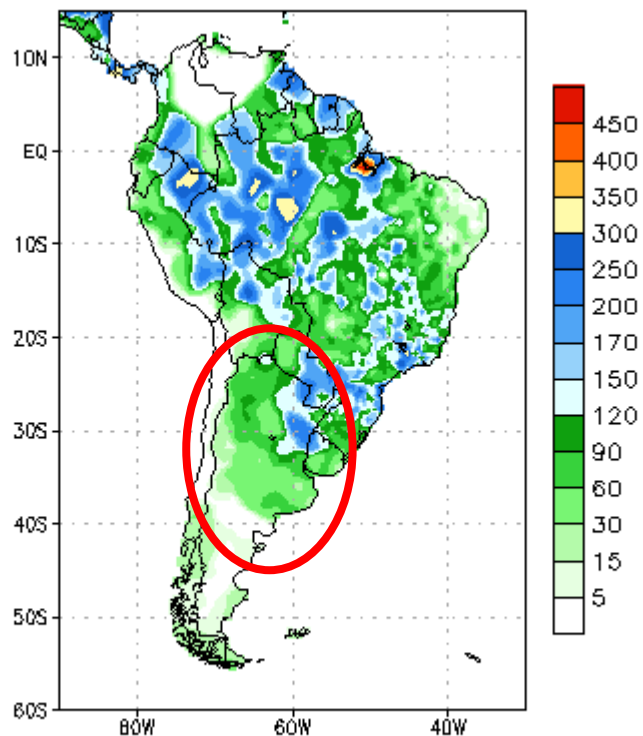
01/12 - 16/12



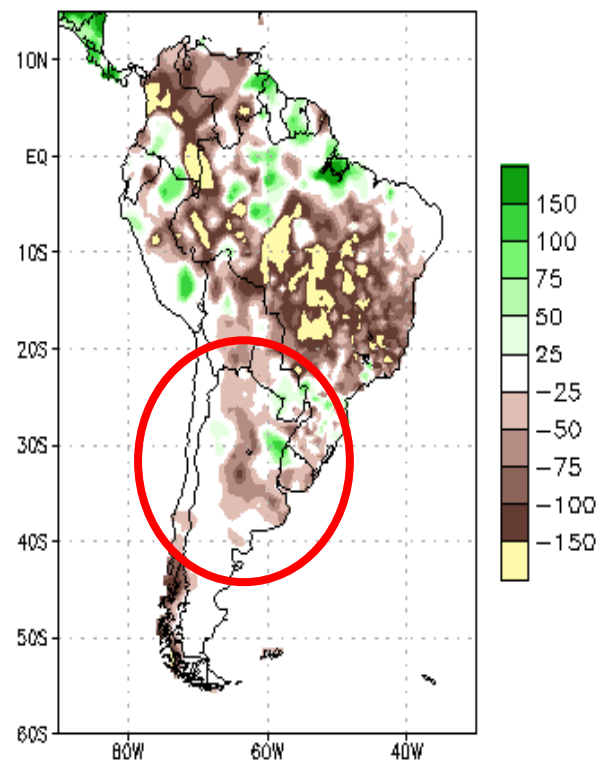
ARGENTINA: Total de Chuva e Anomalia nos últimos 30 dias



Accumulated Prcp (mm) 16NOV2020–15DEC2020



Prpc Anomalies (mm) 16NOV2020–15DEC2020

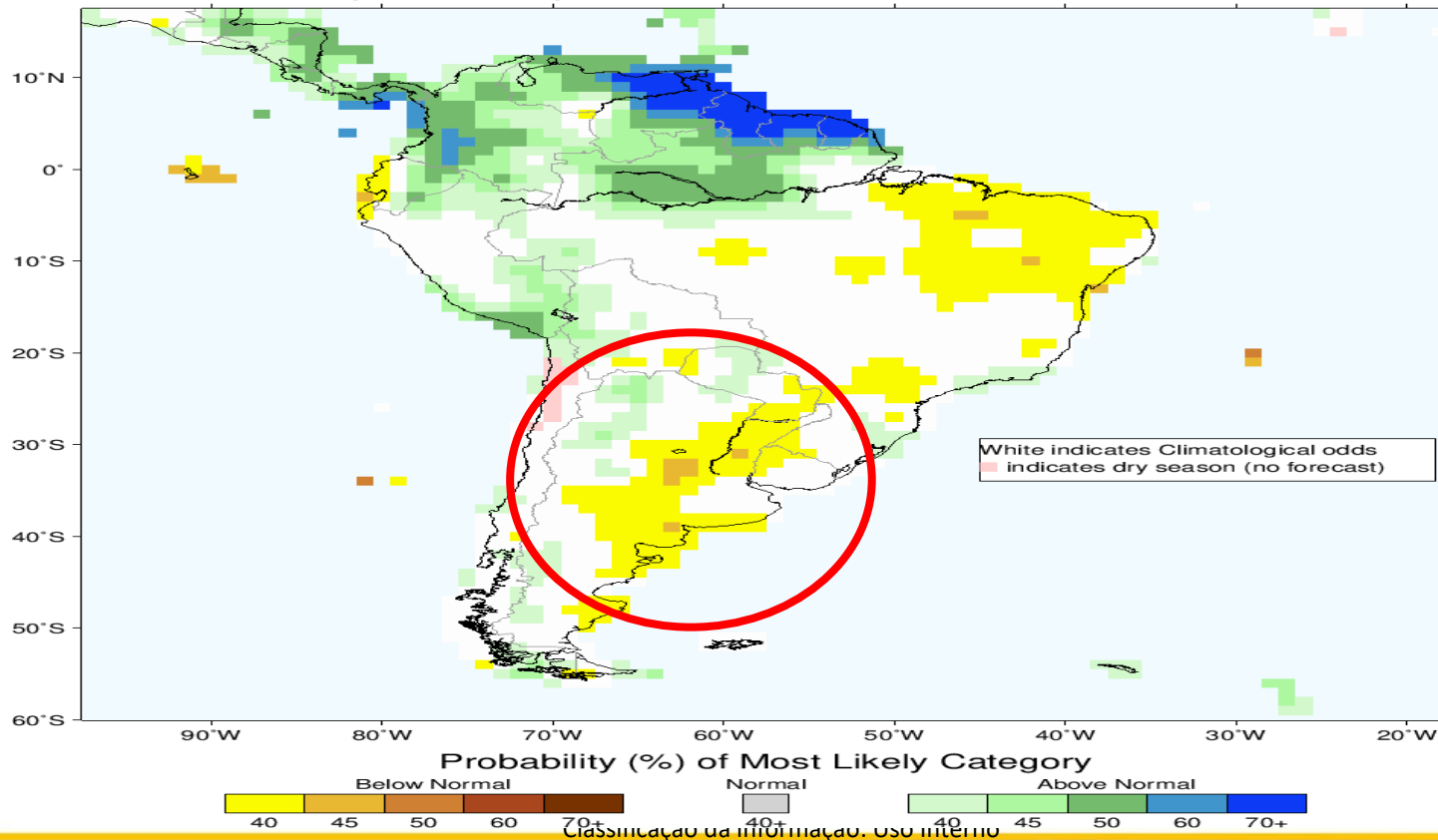


Data Source: CPC Unified (gauge-based & 0.5x0.5 deg resolution) Precipitation Analysis
Climatology (1981–2010)

ARGENTINA: Previsão de Anomalia de Chuva (Safrá Verão/2021)



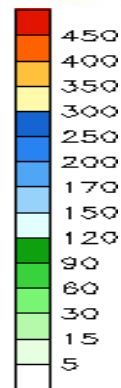
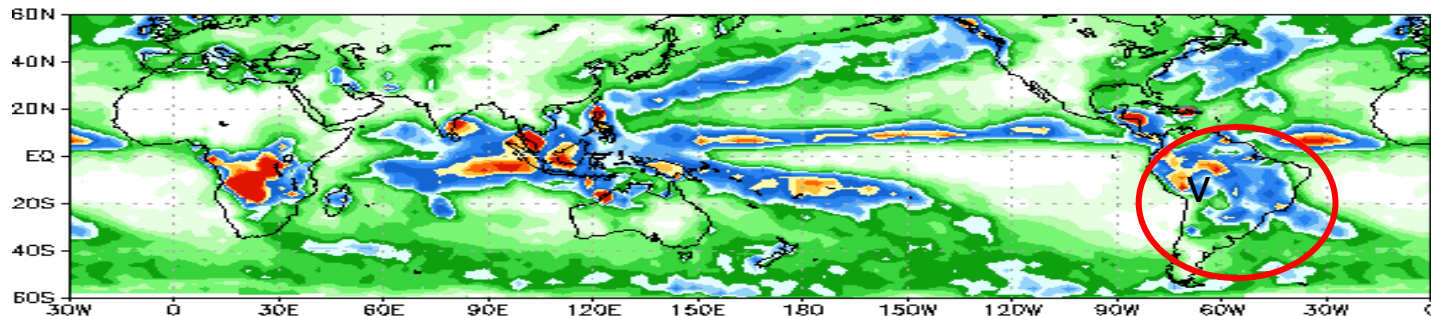
IRI Multi-Model Probability Forecast for Precipitation for January-February-March 2021, Issued December 2020



Chuva GLOBO: Acumulado e anomalia 30 dias

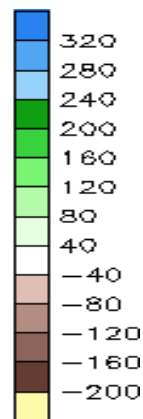
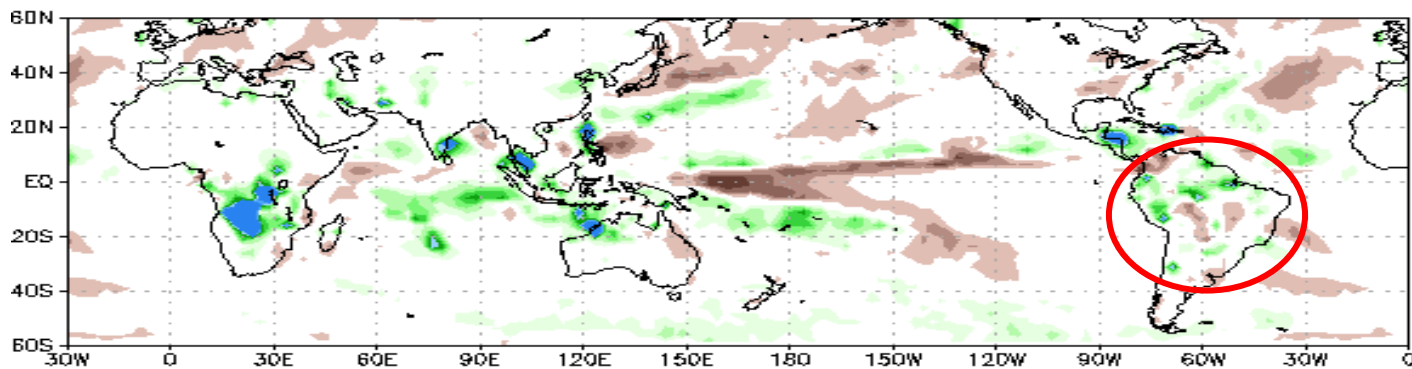


Accumulated Prep (mm) 09NOV2020 - 09DEC2020



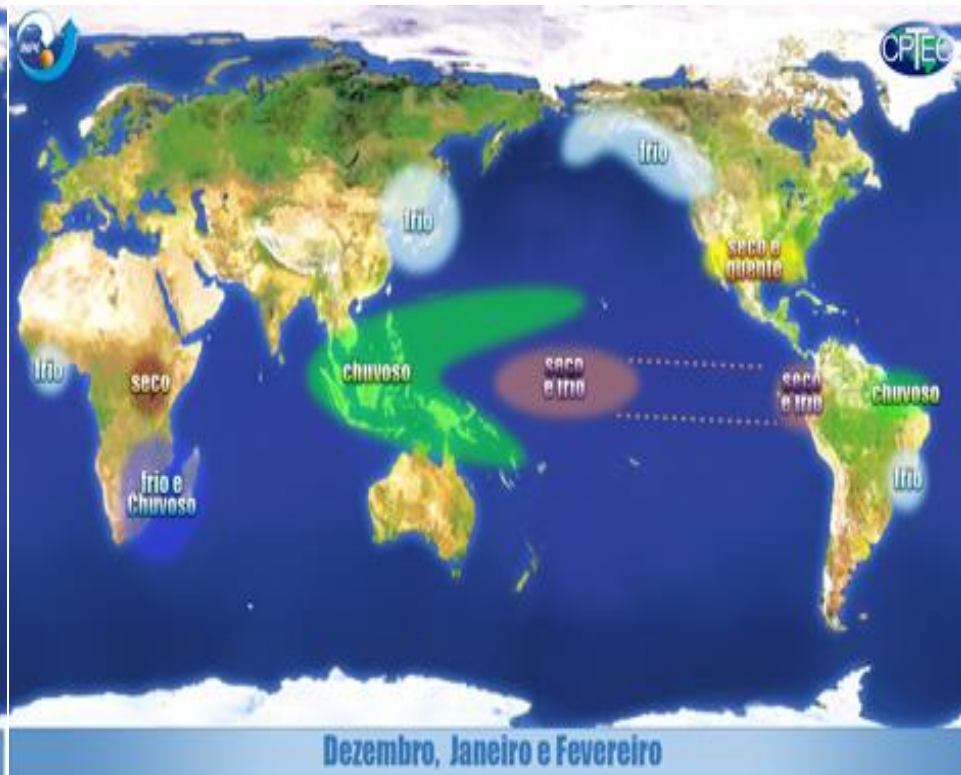
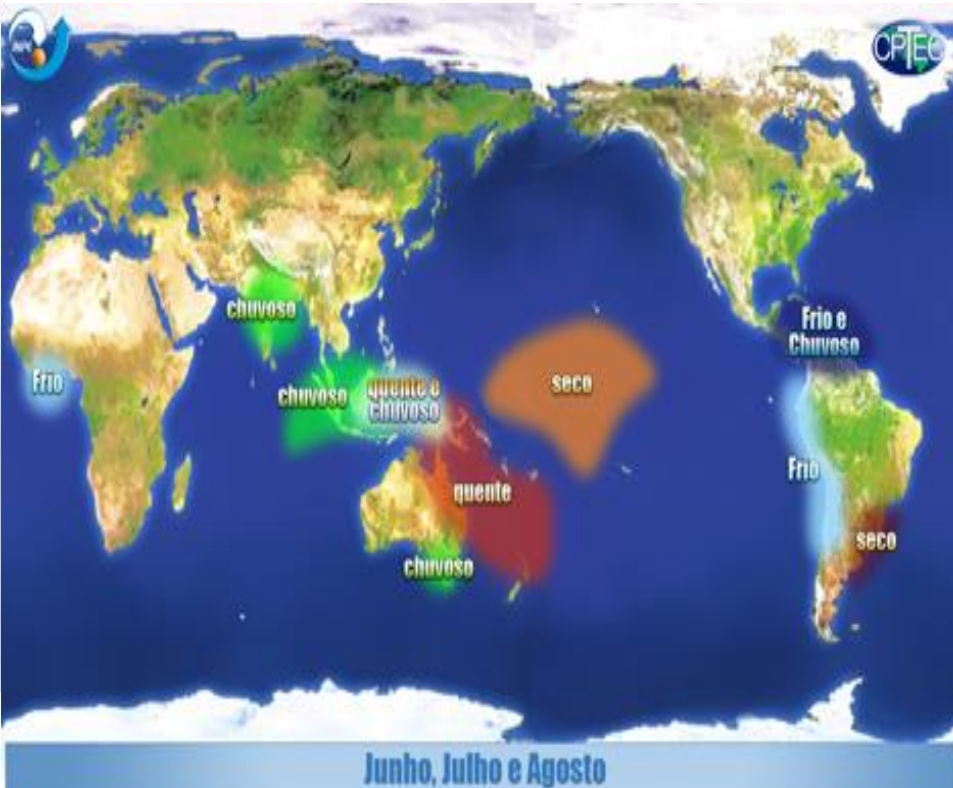
Data Source: NCEP CMAP Precipitation

Prep Anomalies (mm) 09NOV2020 - 09DEC2020



Data Source: NCEP CMAP Precipitation
Climatology (1979-1995)

EFEITO DO FENÔMENO LA NIÑA



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The logo for Somar Meteorologia is centered in a dark blue square. It features the word "somar" in white lowercase letters, with three yellow dots above the 'a'. Below "somar" is the word "METEOROLOGIA" in yellow uppercase letters.

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