

# CENÁRIO CLIMÁTICO PARA 2021



**Fevereiro/2021**

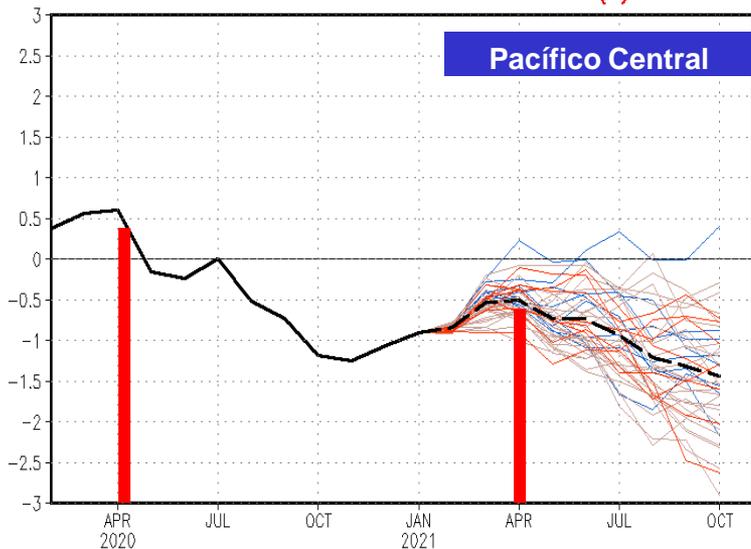
# Pacífico equatorial: NOAA passa indicar continuidade do LA NIÑA



NWS/NCEP/CPC

Last update: Wed Feb 10 2021  
Initial conditions: 31Jan2021-9Feb2021

CFSv2 forecast Nino3.4 SST anomalies (K)



— Latest 8 forecast members      - - - Forecast ensemble mean  
— Earliest 8 forecast members      — NCEP NSST daily analysis  
— Other forecast members

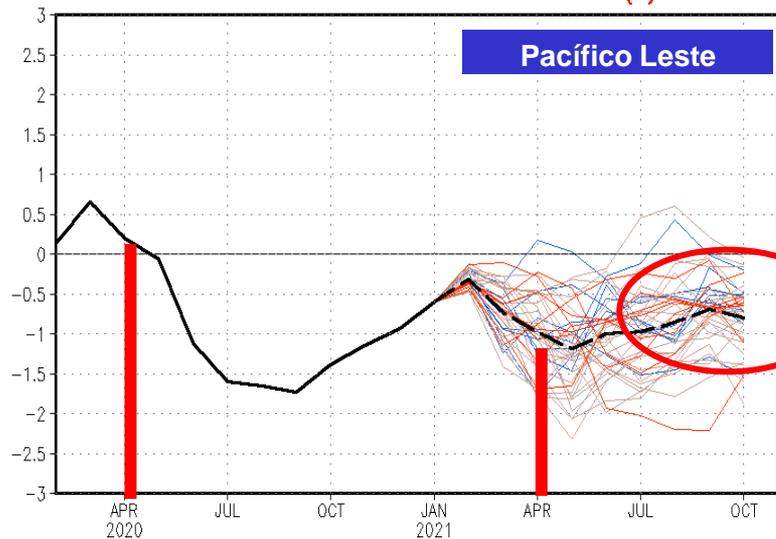
(Model bias correct base period: 1999-2010; Climatology base period: 1982-2010)



NWS/NCEP/CPC

Last update: Wed Feb 10 2021  
Initial conditions: 31Jan2021-9Feb2021

CFSv2 forecast Nino1+2 SST anomalies (K)



— Latest 8 forecast members      - - - Forecast ensemble mean  
— Earliest 8 forecast members      — NCEP NSST daily analysis  
— Other forecast members

(Model bias correct base period: 1999-2010; Climatology base period: 1982-2010)

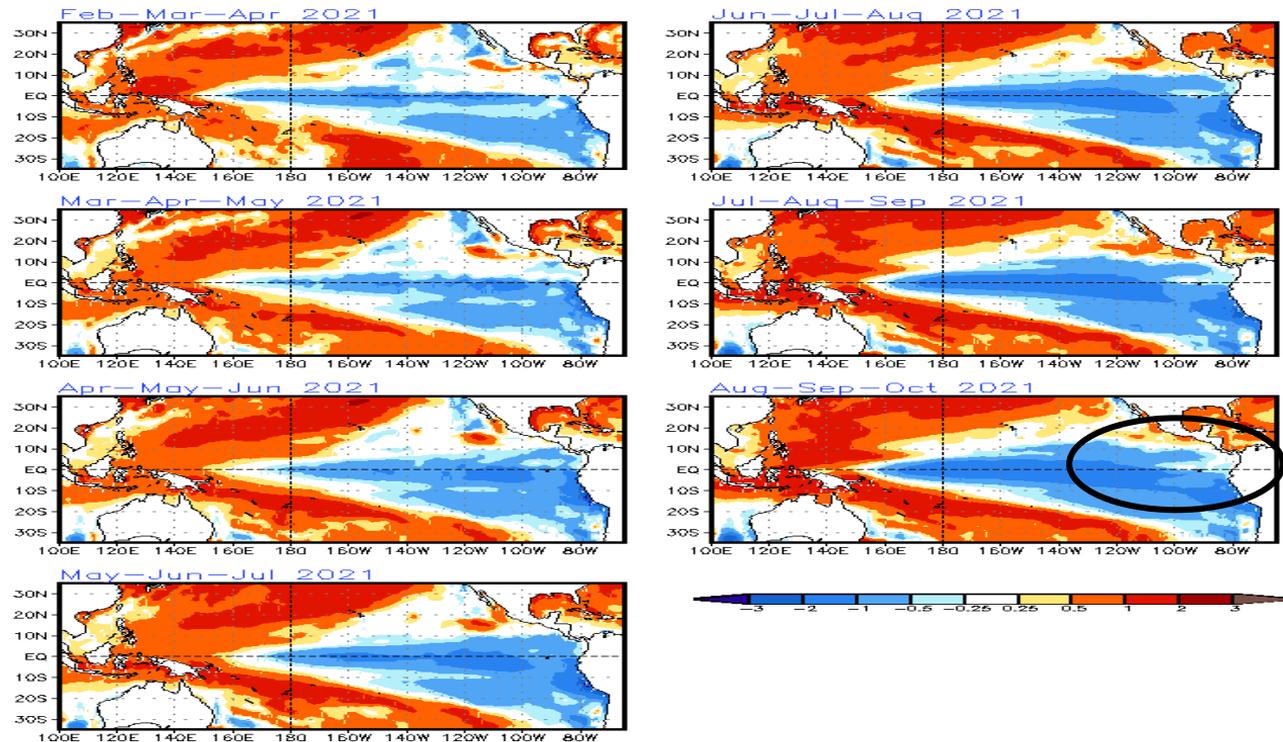


NWS/NCEP/CPC

Initial conditions: 28Jan2021–6Feb2021

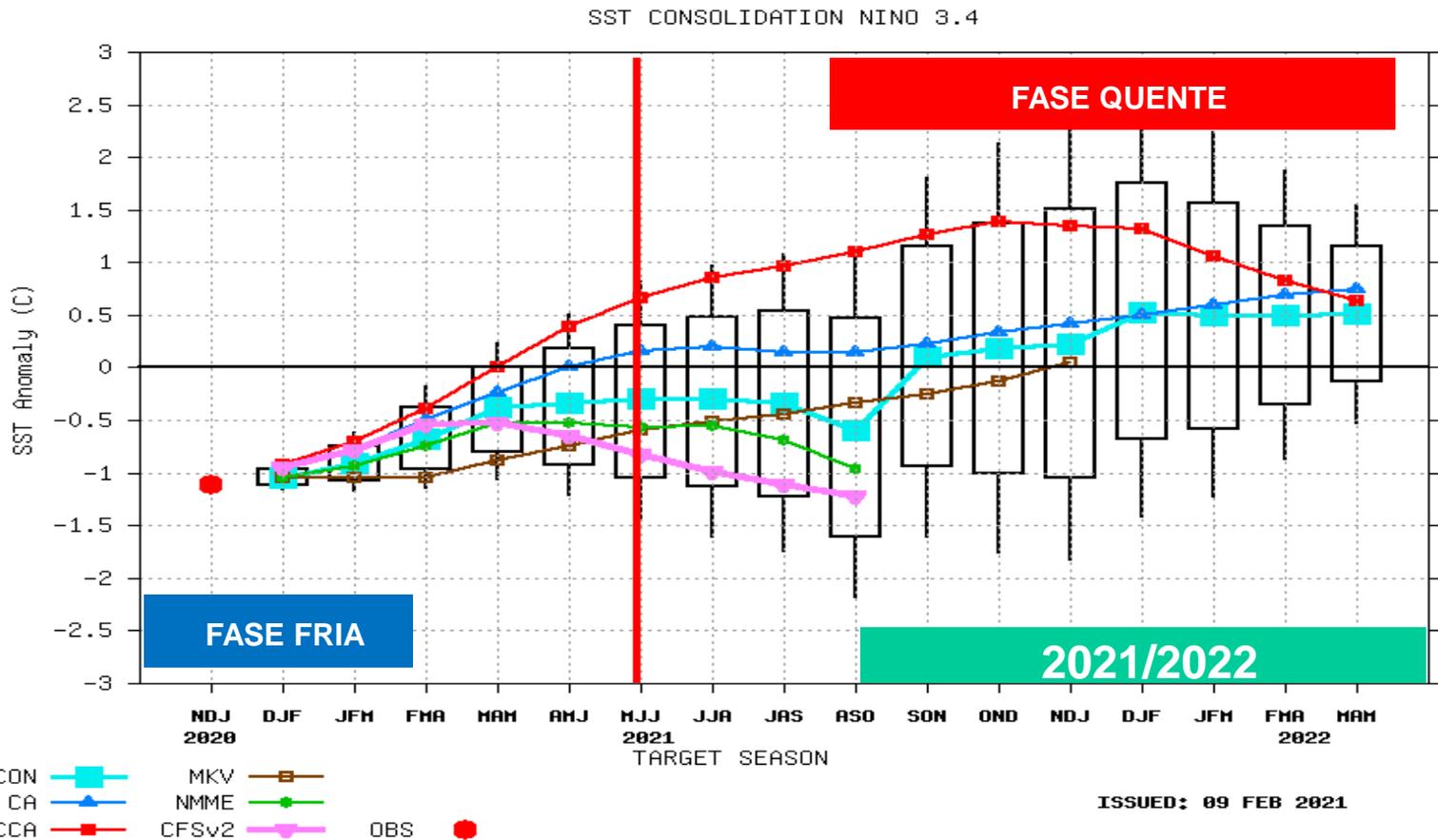
Last update: Sun Feb 7 2021

CFSv2 seasonal SST (K)



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

# NOAA: Pacífico equatorial muda de fase em meados de 2021



# Anomalia TSM Pacífico Central (Niño 3.4)



Year	DJF	JFM	FMA	MAM	AMJ	MJJ	JJA	JAS	ASO	SON	OND	NDJ
2000	-1.7	-1.4	-1.1	-0.8	-0.7	-0.6	-0.6	-0.5	-0.5	-0.6	-0.7	-0.7
2001	-0.7	-0.5	-0.4	-0.3	-0.3	-0.1	-0.1	-0.1	-0.2	-0.3	-0.3	-0.3
2002	-0.1	0.0	0.1	0.2	0.4	0.7	0.8	0.9	1.0	1.2	1.3	1.1
2003	0.9	0.6	0.4	0.0	-0.3	-0.2	0.1	0.2	0.3	0.3	0.4	0.4
2004	0.4	0.3	0.2	0.2	0.2	0.3	0.5	0.6	0.7	0.7	0.7	0.7
2005	0.6	0.6	0.4	0.4	0.3	0.1	-0.1	-0.1	-0.1	-0.3	-0.6	-0.8
2006	-0.9	-0.8	-0.6	-0.4	-0.1	0.0	0.1	0.3	0.5	0.8	0.9	0.9
2007	0.7	0.2	-0.1	-0.3	-0.4	-0.5	-0.6	-0.8	-1.1	-1.3	-1.5	-1.6
2008	-1.6	-1.5	-1.3	-1.0	-0.8	-0.6	-0.4	-0.2	-0.2	-0.4	-0.6	-0.7
2009	-0.8	-0.8	-0.6	-0.3	0.0	0.3	0.5	0.6	0.7	1.0	1.4	1.6
Year	DJF	JFM	FMA	MAM	AMJ	MJJ	JJA	JAS	ASO	SON	OND	NDJ
2010	1.5	1.2	0.8	0.4	-0.2	-0.7	-1.0	-1.3	-1.6	-1.6	-1.6	-1.6
2011	-1.4											-1.0
2012	-0.9											-0.2
2013	-0.4											-0.3
2014	-0.4											0.7
2015	0.5											2.6
2016	2.5	2.1	1.6	0.9	0.4	-0.1	-0.4	-0.5	-0.6	-0.7	-0.7	-0.6
2017	-0.3	-0.2	0.1	0.2	0.3	0.3	0.1	-0.1	-0.4	-0.7	-0.8	-1.0
2018	-0.9	-0.9	-0.7	-0.5	-0.2	0.0	0.1	0.2	0.5	0.8	0.9	0.8
2019	0.7	0.7	0.7	0.7	0.5	0.5	0.3	0.1	0.2	0.3	0.5	0.5
Year	DJF	JFM	FMA	MAM	AMJ	MJJ	JJA	JAS	ASO	SON	OND	NDJ
2020	0.5	0.5	0.4	0.2	-0.1	-0.3	-0.4	-0.6	-0.9	-1.2	-1.3	-1.2

Cenário CLIMÁTICO de 2021 análogo a 2011!!

# Anomalia TSM Pacífico Leste (Niño 1+2)



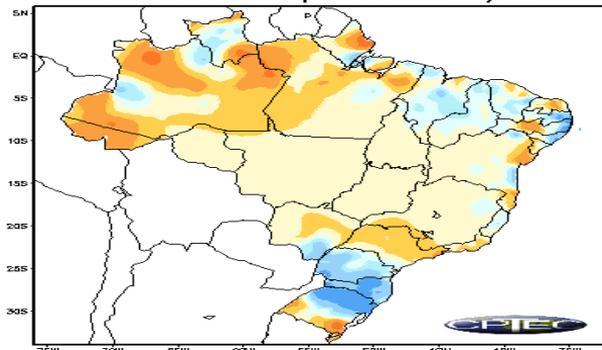
	DJF	JFM	FMA	MAM	AMJ	MJJ	JJA	JAS	ASO	SON	OND	NDJ
2000	-0,68	-0,43	-0,11	-0,02	-0,10	-0,56	-0,71	-0,66	-0,47	-0,62	-0,67	-0,71
2001	-0,44	0,06	0,66	0,57	-0,10	-0,74	-0,85	-0,81	-1,01	-1,12	-1,08	-0,92
2002	-0,55	0,06	0,69	0,89	0,50	-0,05	-0,48	-0,59	-0,28	0,18	0,55	0,41
2003	0,10	-0,30	-0,61	-1,10	-1,33	-1,27	-0,87	-0,57	-0,23	0,05	0,23	0,22
2004	0,03	-0,23	-0,33	-0,63	-0,84	-1,09	-1,05	-0,74	-0,41	0,06	0,21	0,18
2005	-0,14	-0,50	-0,69	-0,43	-0,24	-0,19	-0,27	-0,37	-0,60	-0,91	-0,86	-0,53
2006	-0,08	0,17	-0,23	-0,47	-0,57	0,07	0,49	0,87	1,14	1,19	1,05	0,76
2007	0,45	-0,03	-0,59	-1,14	-1,29	-1,34	-1,35	-1,54	-1,77	-1,97	-1,96	-1,49
2008	-0,71	0,14	0,48	0,47	0,45	0,66	0,97	1,00	0,63	0,20	-0,19	-0,20
2009	-0,19	-0,16	0,00	0,22	0,59	0,81	0,96	0,83	0,55	0,38	0,34	0,39
2010	0,20	-0,05	0,00	0,02	0,06	-0,60	-1,06	-1,45	-1,51	-1,58	-1,54	-1,11
2011	-0,57	-0,26	-0,06	0,12	0,54	0,64	0,43	-0,05	-0,40	-0,66	-0,79	-0,80
2012	-0,48	-0,07	0,58	0,92	1,36	1,26	0,98	0,61	0,24	0,00	-0,39	-0,53
2013	-0,54	-0,29	-0,40	-0,72	-1,21	-1,37	-1,24	-0,96	-0,73	-0,58	-0,46	-0,16
2014	-0,23	-0,42	-0,63	0,05	0,86	1,43	1,42	1,20	0,99	0,82	0,52	0,14
2015	-0,29	-0,29	0,29	1,28	2,11	2,61	2,55	2,56	2,44	2,44	2,32	1,95
2016	1,42	1,00	0,61	0,48	0,26	0,24	0,28	0,36	0,44	0,34	0,34	0,62
2017	1,13	1,58	1,48	1,20	0,60	0,27	-0,14	-0,40	-0,82	-1,05	-1,29	-1,11
2018	-0,92	-0,73	-0,80	-0,79	-0,75	-0,47	-0,29	-0,07	0,14	0,36	0,63	0,68
2019	0,56	0,35	0,18	0,11	-0,03	-0,15	-0,33	-0,52	-0,68	-0,63	-0,23	0,03
2020	0,26	0,31	0,43	0,28	-0,13	-0,65	-0,96	-1,00	-0,98	-0,91		

# Anomalia de CHUVA mensal em 2011



Data da última atualização: 15/08/2011

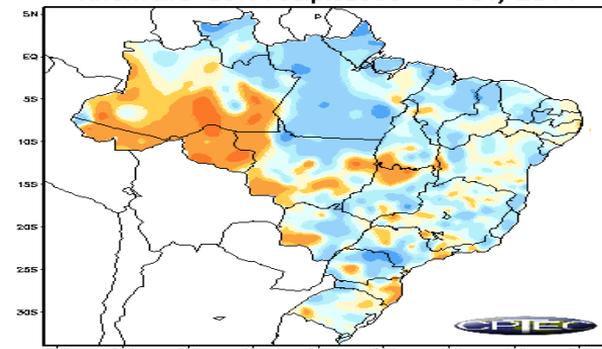
### Anomalia de Precipitacao - JUL/2011



Fontes de dados: CPTEC/INPE-INMET-FUNCEME/CE-AESA/PB-EMPARN/RN

Data da última atualização: 07/11/2011

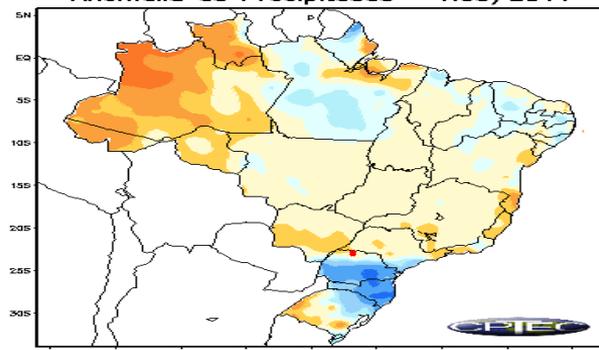
### Anomalia de Precipitacao - OUT/2011



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/BA-CEMIG/SIMGE/MG-SEAG/ES-SIMEPAR/PR-CLIMERH/SC-IAC/SP

Data da última atualização: 29/09/2011

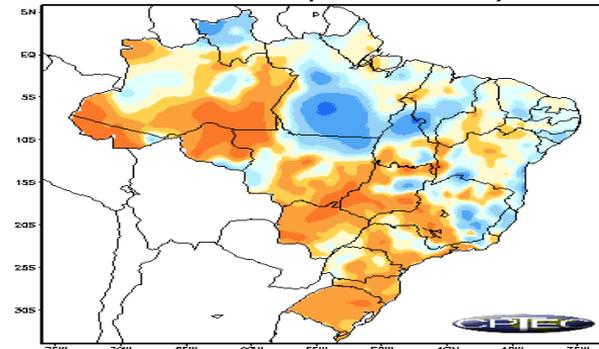
### Anomalia de Precipitacao - AGO/2011



Fontes de dados: CPTEC/INPE-INMET-FUNCEME/CE-AESA/PB-EMPARN/RN

Data da última atualização: 12/12/2011

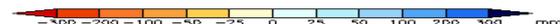
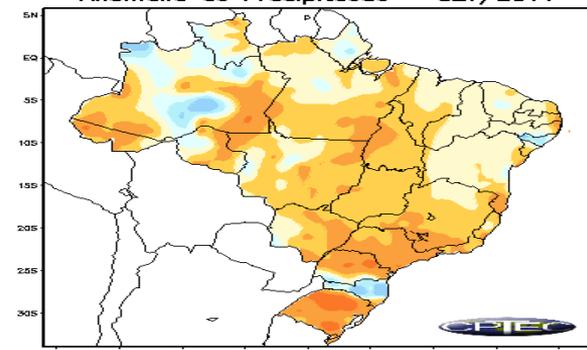
### Anomalia de Precipitacao - NOV/2011



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/BA-CEMIG/SIMGE/MG-SEAG/ES-SIMEPAR/PR-CLIMERH/SC-IAC/SP

Data da última atualização: 20/10/2011

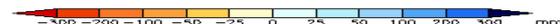
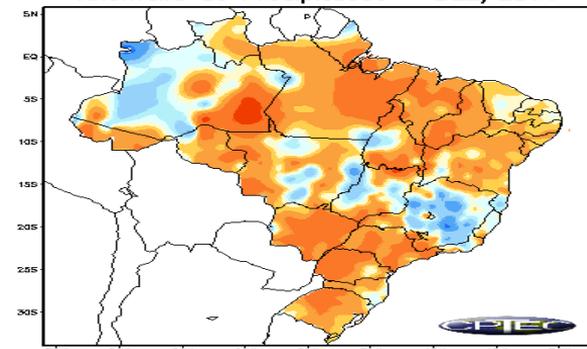
### Anomalia de Precipitacao - SET/2011



Fontes de dados: CPTEC/INPE-INMET-FUNCEME/CE-AESA/PB-EMPARN/RN

Data da última atualização: 31/01/2012

### Anomalia de Precipitacao - DEZ/2011

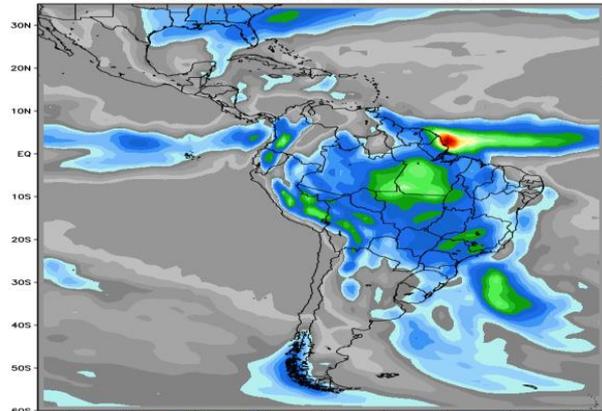


Fontes de dados: CPTEC/INPE-INMET-FUNCEME/CE-AESA/PB-EMPARN/RN  
ITEP/LAMEPE/PE-FEPAGRO/RS-CHESF-COMET/RJ-DHME/PI-CMRH/SE-SEMARH/BA-CEMIG/SIMGE/MG-SEAG/ES-SIMEPAR/PR-CLIMERH/SC-IAC/SP

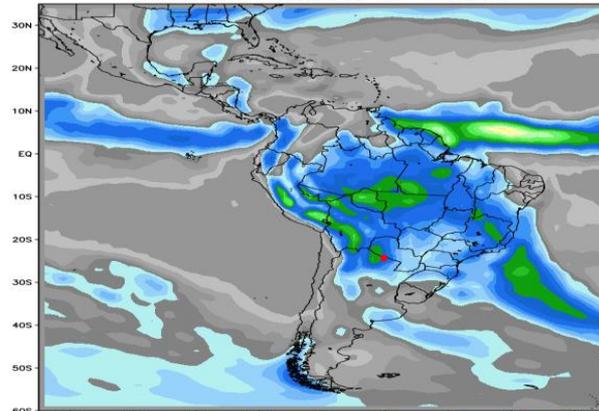
# CHUVA: Previsão 30 dias (acumulados para as próximas Semanas Operativas)



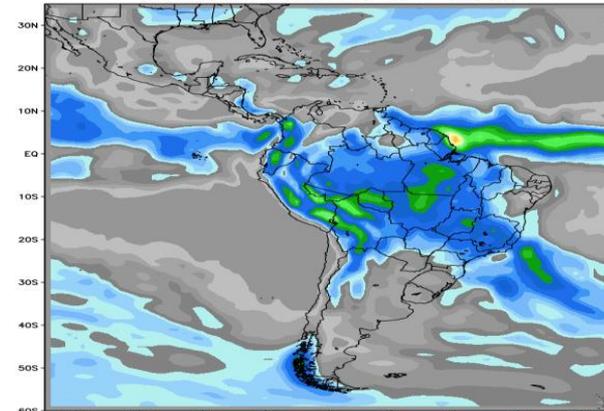
Precipitação Média (mm) CFSv2 | Inic: 10/02/2021  
Acumulado entre: 13/02 - 19/02



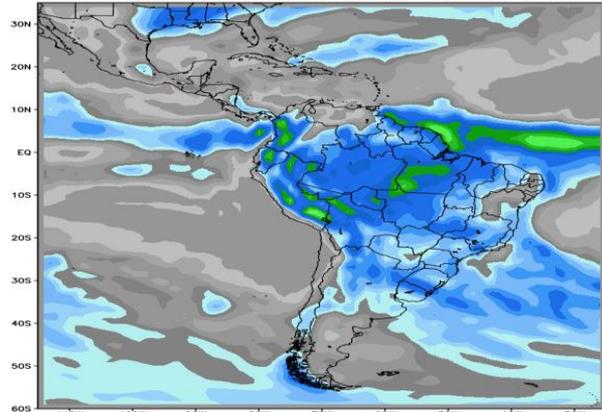
Precipitação Média (mm) CFSv2 | Inic: 10/02/2021  
Acumulado entre: 20/02 - 26/02



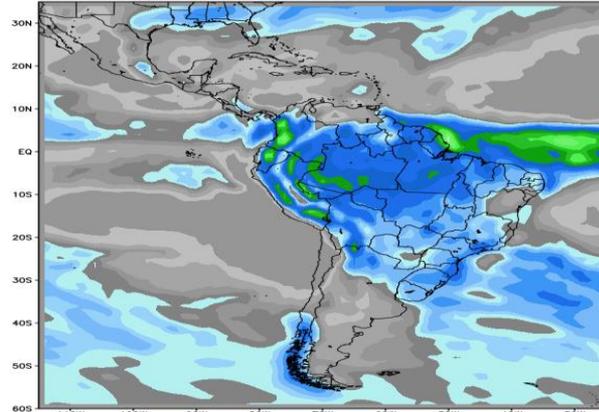
Precipitação Média (mm) CFSv2 | Inic: 10/02/2021  
Acumulado entre: 27/02 - 05/03



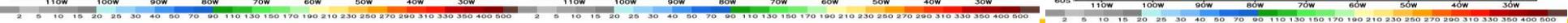
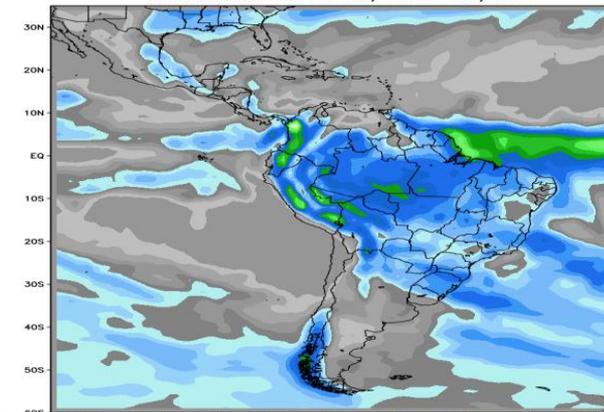
Precipitação Média (mm) CFSv2 | Inic: 10/02/2021  
Acumulado entre: 06/03 - 12/03



Precipitação Média (mm) CFSv2 | Inic: 10/02/2021  
Acumulado entre: 13/03 - 19/03



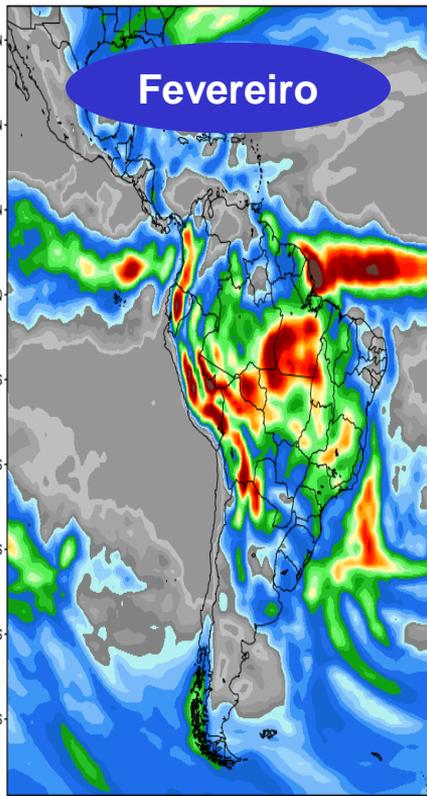
Precipitação Média (mm) CFSv2 | Inic: 10/02/2021  
Acumulado entre: 20/03 - 26/03



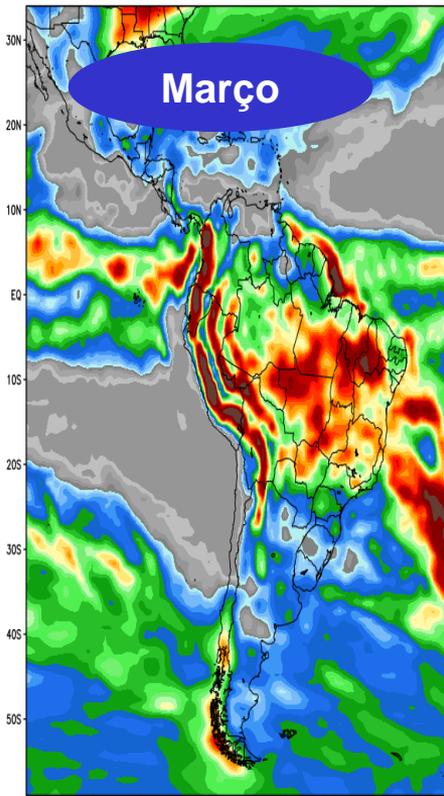
# Previsão Chuva Mensal (mm) - CFSv2/NOAA



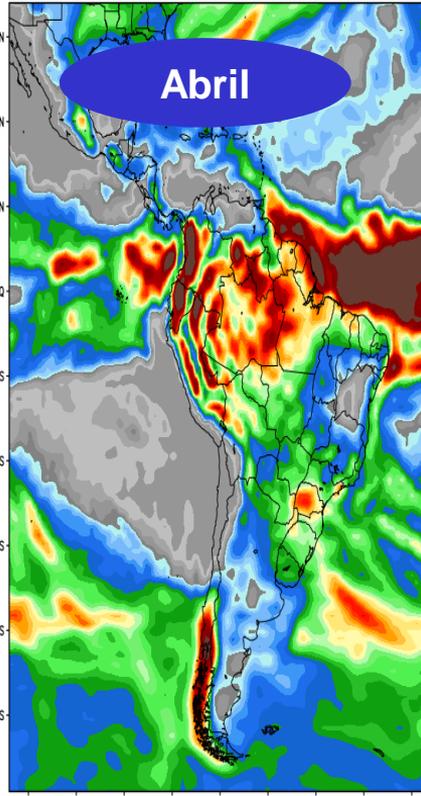
Precipitacao D01 00Z CFSv2 (mm) | Inic: 10/02/2021  
Acumulado de: 02/2021 Inic dia 10



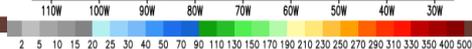
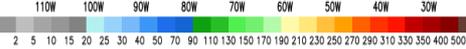
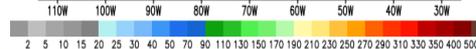
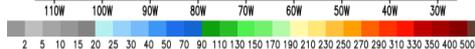
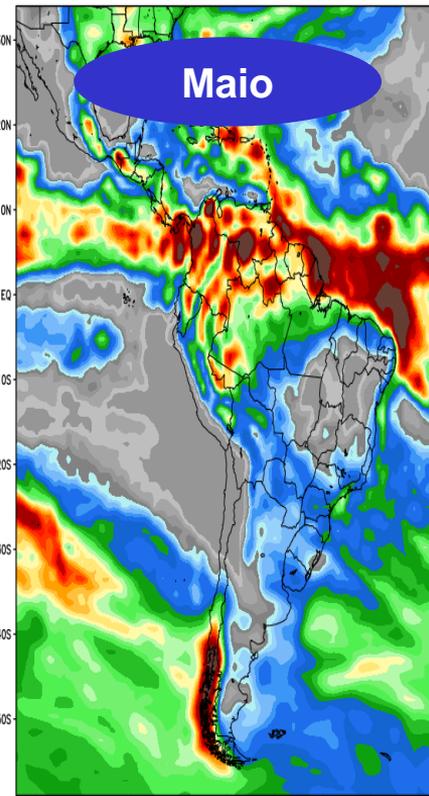
Precipitacao D01 00Z CFSv2 (mm) | Inic: 10/02/2021  
Acumulado de: 03/2021



Precipitacao D01 00Z CFSv2 (mm) | Inic: 10/02/2021  
Acumulado de: 04/2021



Precipitacao D01 00Z CFSv2 (mm) | Inic: 10/02/2021  
Acumulado de: 05/2021



# Anomalia de Chuva Mensal (mm) - CFSv2/NOAA

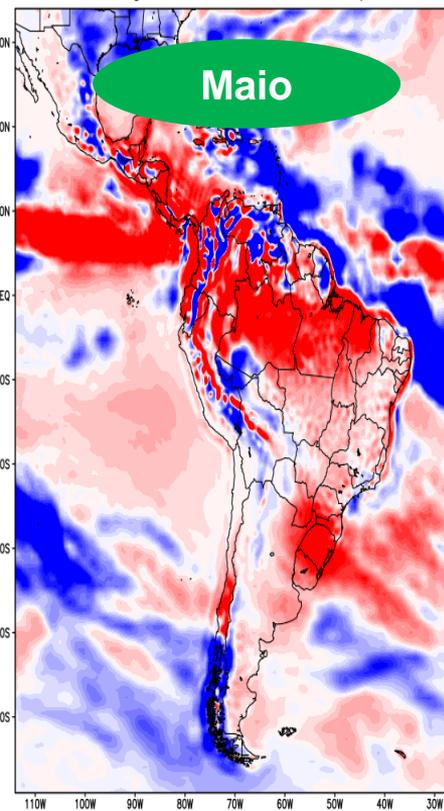
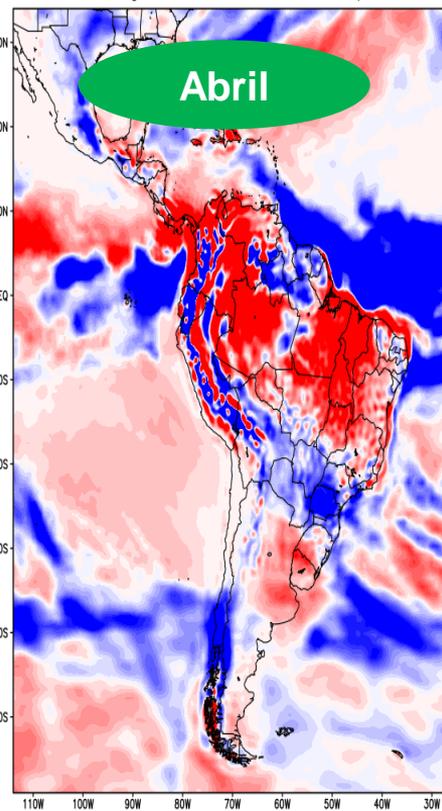
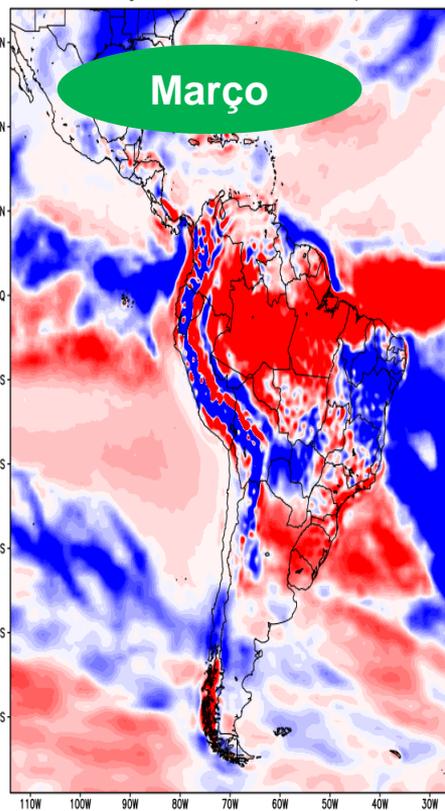
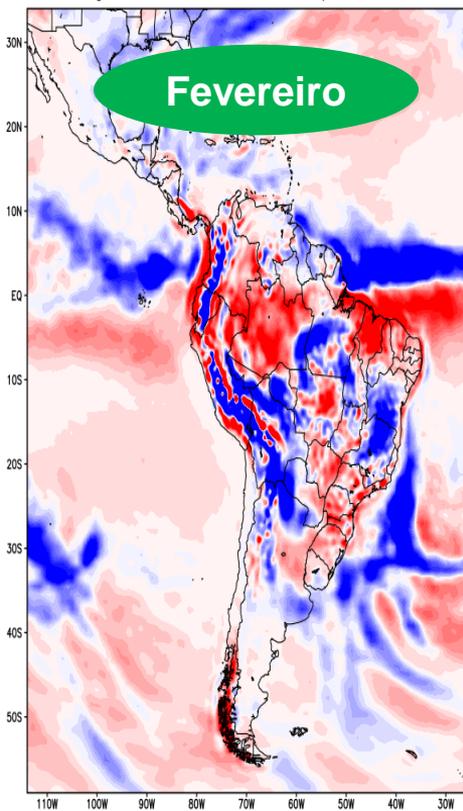


Anom de Prec (mm) D01 00Z CFSv2 | Inic: 10/02/2021  
Climatologia CFSR - Desvio de: 02/2021 Inic dia 10

Anom de Prec (mm) D01 00Z CFSv2 | Inic: 10/02/2021  
Climatologia CFSR - Desvio de: 03/2021

Anom de Prec (mm) D01 00Z CFSv2 | Inic: 10/02/2021  
Climatologia CFSR - Desvio de: 04/2021

Anom de Prec (mm) D01 00Z CFSv2 | Inic: 10/02/2021  
Climatologia CFSR - Desvio de: 05/2021



-100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100

-100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100

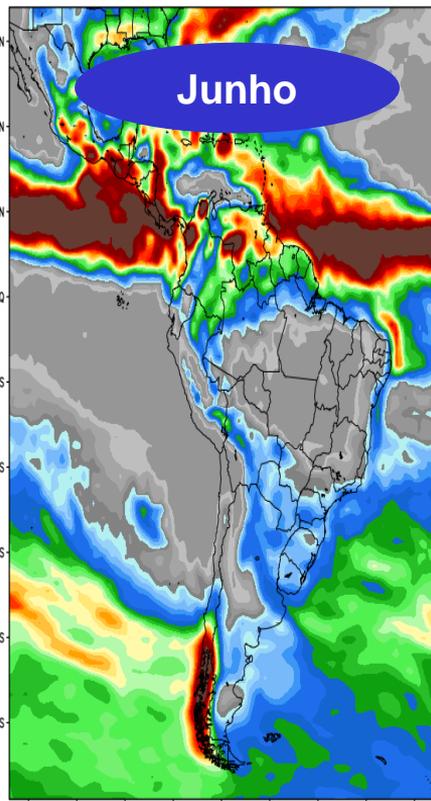
-100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100

-100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100

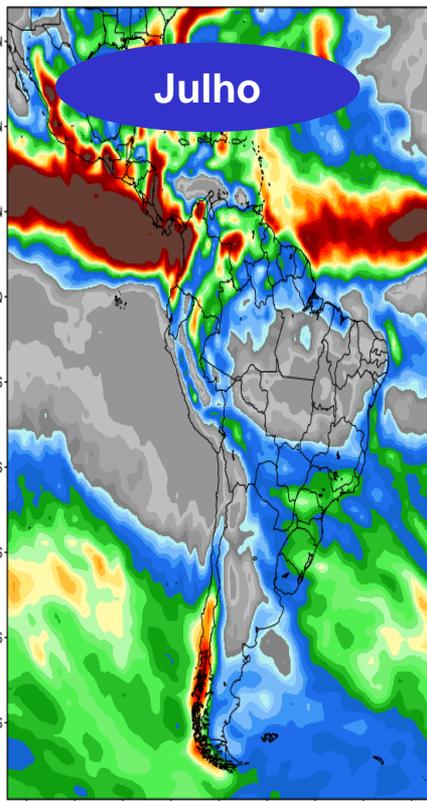
# Previsão Chuva Mensal (mm) - CFSv2/NOAA



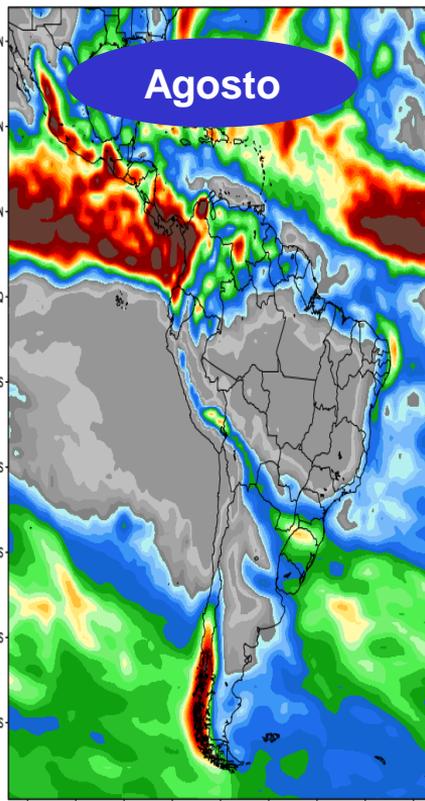
Precipitacao D01 00Z CFSv2 (mm) | Inic: 10/02/2021  
Acumulado de: 06/2021



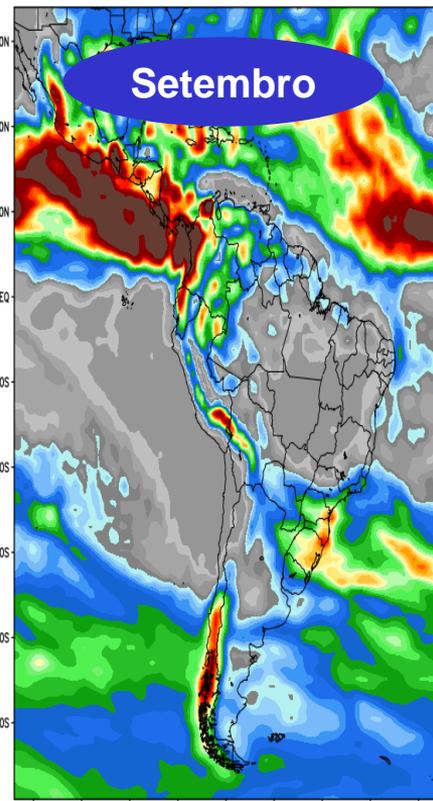
Precipitacao D01 00Z CFSv2 (mm) | Inic: 10/02/2021  
Acumulado de: 07/2021



Precipitacao D01 00Z CFSv2 (mm) | Inic: 10/02/2021  
Acumulado de: 08/2021



Precipitacao D01 00Z CFSv2 (mm) | Inic: 10/02/2021  
Acumulado de: 09/2021



2 5 10 15 20 25 30 40 50 70 90 110 130 150 170 190 210 230 250 270 290 310 330 350 400 500

2 5 10 15 20 25 30 40 50 70 90 110 130 150 170 190 210 230 250 270 290 310 330 350 400 500

2 5 10 15 20 25 30 40 50 70 90 110 130 150 170 190 210 230 250 270 290 310 330 350 400 500

2 5 10 15 20 25 30 40 50 70 90 110 130 150 170 190 210 230 250 270 290 310 330 350 400 500

# Previsão Anomalia de Chuva Mensal (mm) - CFSv2/NOAA

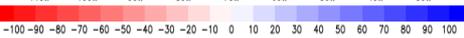
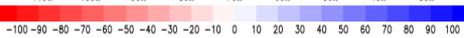
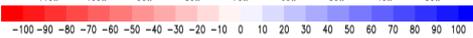
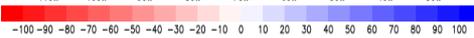
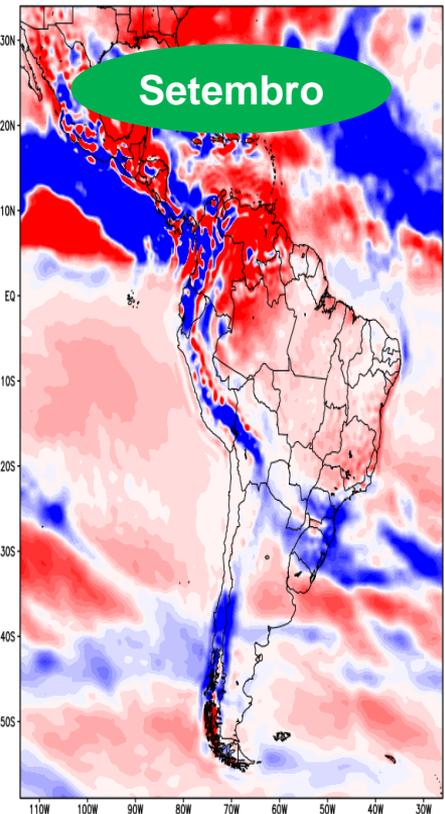
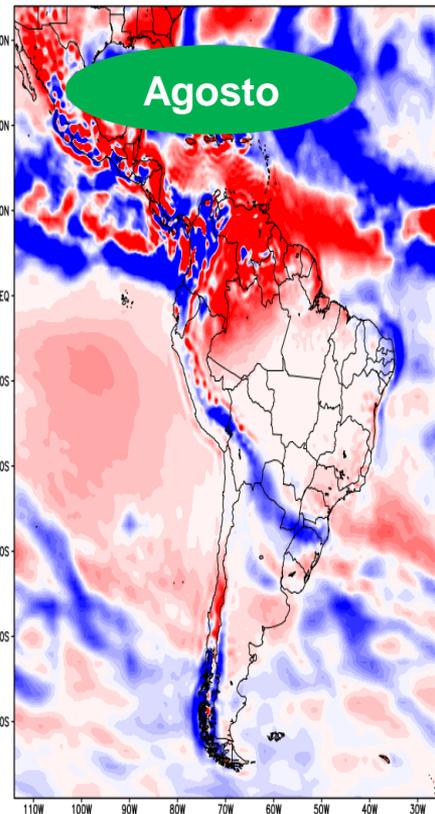
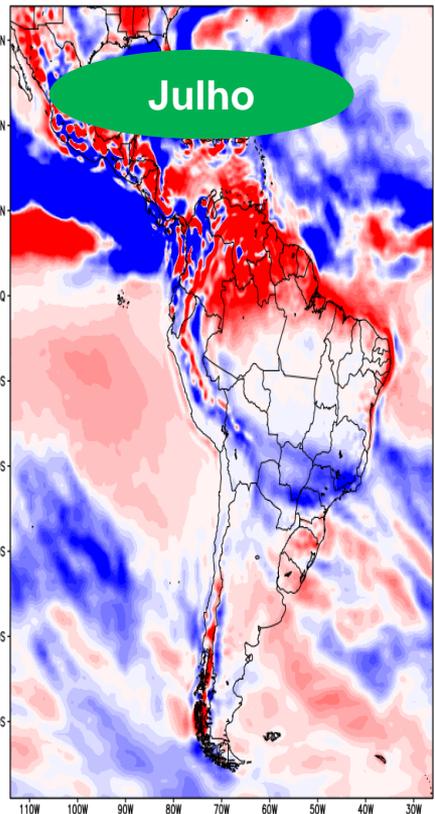
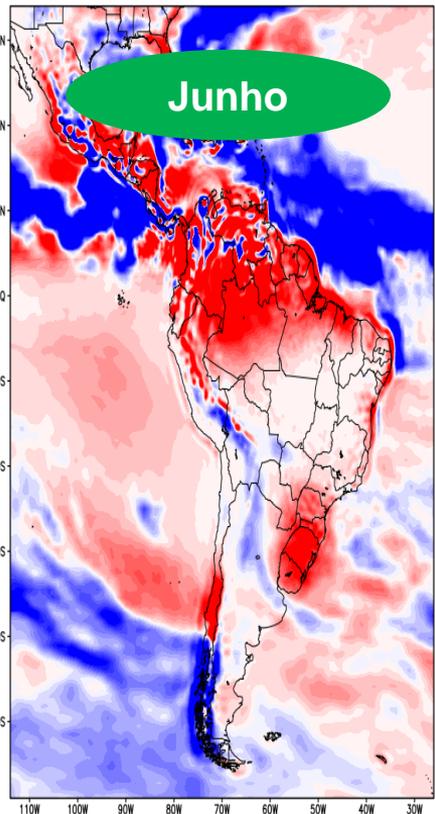


Anom de Prec (mm) D01 00Z CFSv2 | Inic: 10/02/2021  
Climatologia CFSR - Desvio de: 06/2021

Anom de Prec (mm) D01 00Z CFSv2 | Inic: 10/02/2021  
Climatologia CFSR - Desvio de: 07/2021

Anom de Prec (mm) D01 00Z CFSv2 | Inic: 10/02/2021  
Climatologia CFSR - Desvio de: 08/2021

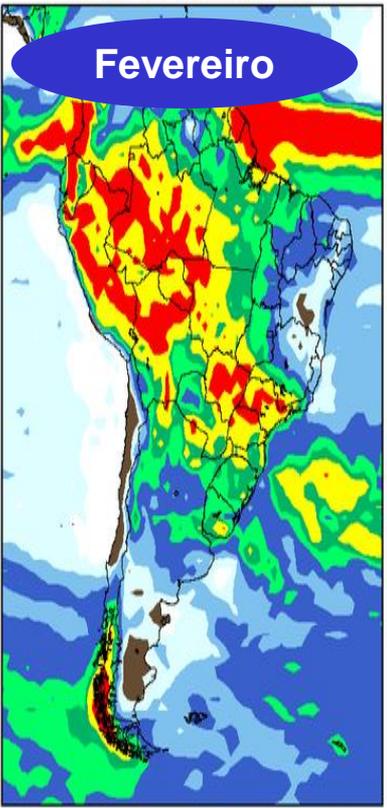
Anom de Prec (mm) D01 00Z CFSv2 | Inic: 10/02/2021  
Climatologia CFSR - Desvio de: 09/2021



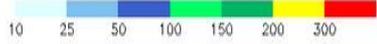
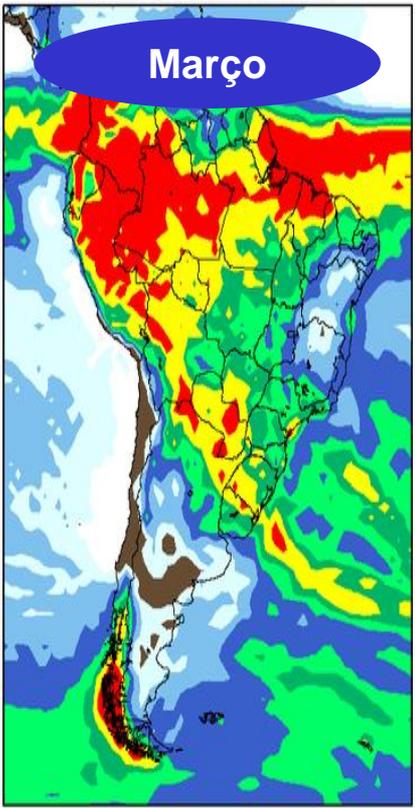
# Previsão Chuva Mensal (Centro Europeu)



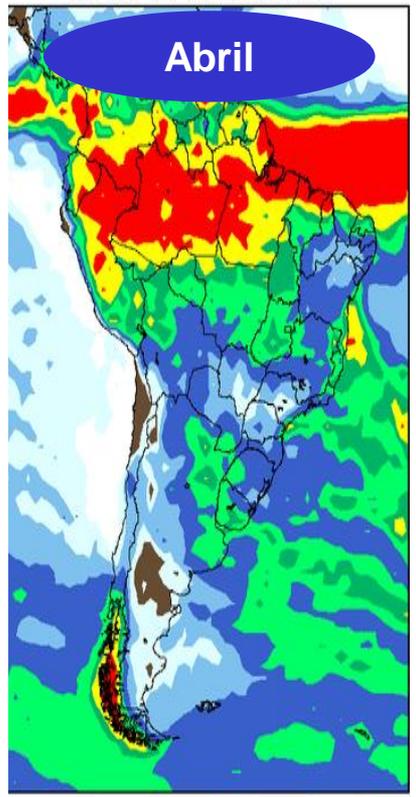
Precipitacao Mensal 02/2021 (mm)  
Rodada de: 2021/01 ECMWF



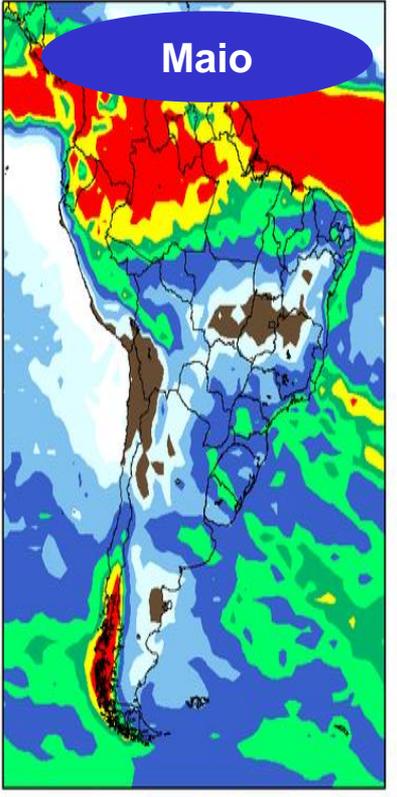
Precipitacao Mensal 03/2021 (mm)  
Rodada de: 2021/01 ECMWF



Precipitacao Mensal 04/2021 (mm)  
Rodada de: 2021/01 ECMWF



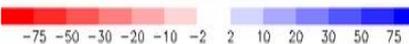
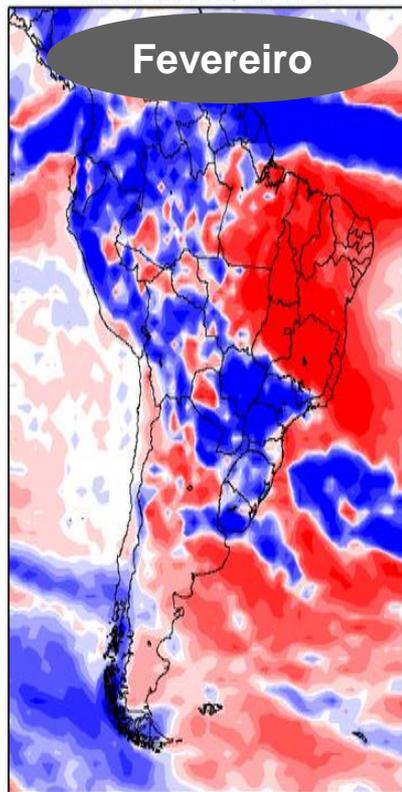
Precipitacao Mensal 05/2021 (mm)  
Rodada de: 2021/01 ECMWF



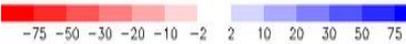
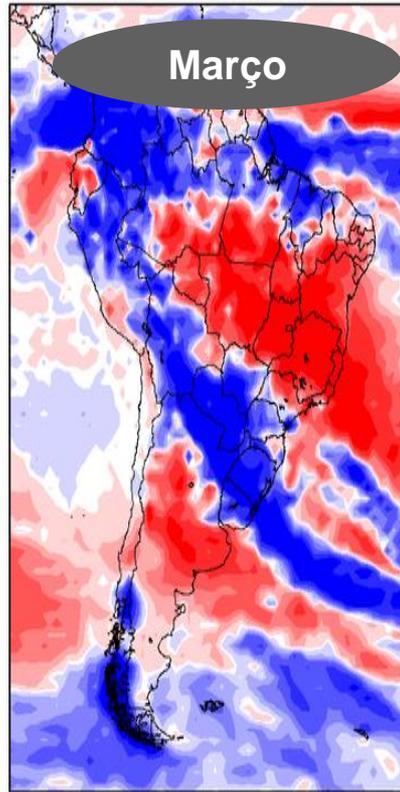
# Previsão Anomalia Chuva Mensal (Centro Europeu)



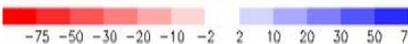
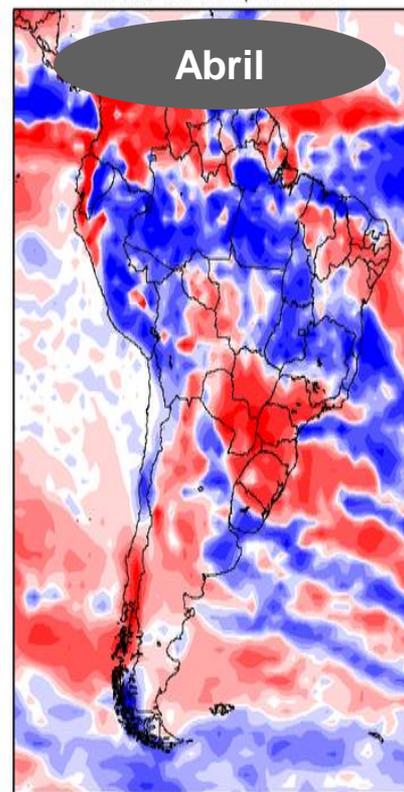
Anomalia Precipitacao Mensal 02/2021 (mm)  
Rodada de: 2021/01 ECMWF



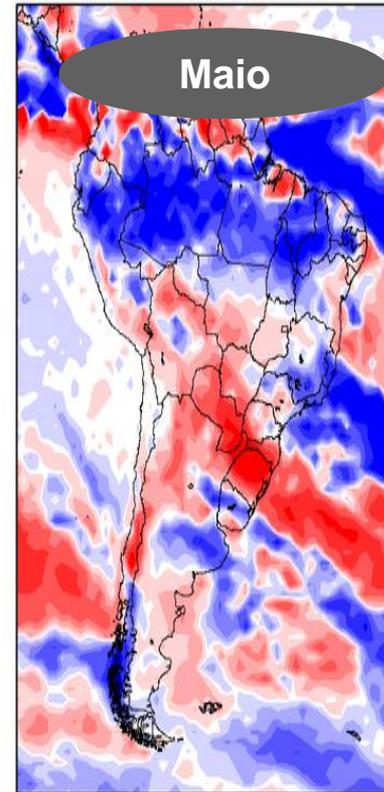
Anomalia Precipitacao Mensal 03/2021 (mm)  
Rodada de: 2021/01 ECMWF



Anomalia Precipitacao Mensal 04/2021 (mm)  
Rodada de: 2021/01 ECMWF



Anomalia Precipitacao Mensal 05/2021 (mm)  
Rodada de: 2021/01 ECMWF



**PAULO ETCHICHURY**  
Sócio Diretor

**Fone Comercial: (11)3030-0799**

**Celular/Whatsapp: (11)99653-5566**

**E-mail: paulo@somarmeteorologia.com.br**

[WWW.SOMARMETEOROLOGIA.COM.BR](http://WWW.SOMARMETEOROLOGIA.COM.BR)

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

**somar**  
METEOROLOGIA

**(11) 3030-0799**