

# Sala de Crise da Região Sul

13 de Dezembro de 2023

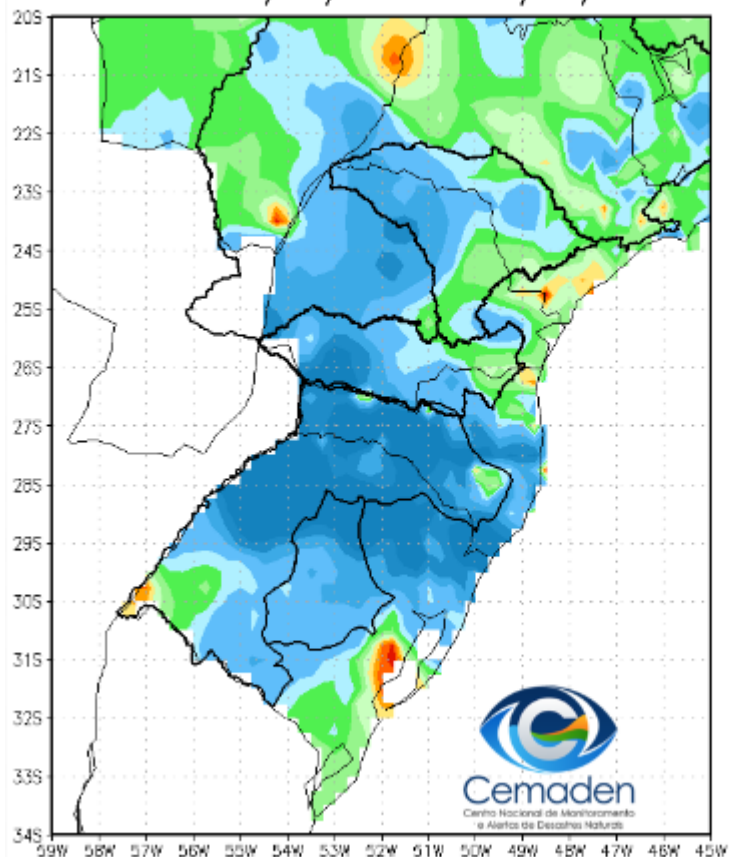


MINISTÉRIO DA  
CIÊNCIA, TECNOLOGIA  
E INOVAÇÃO

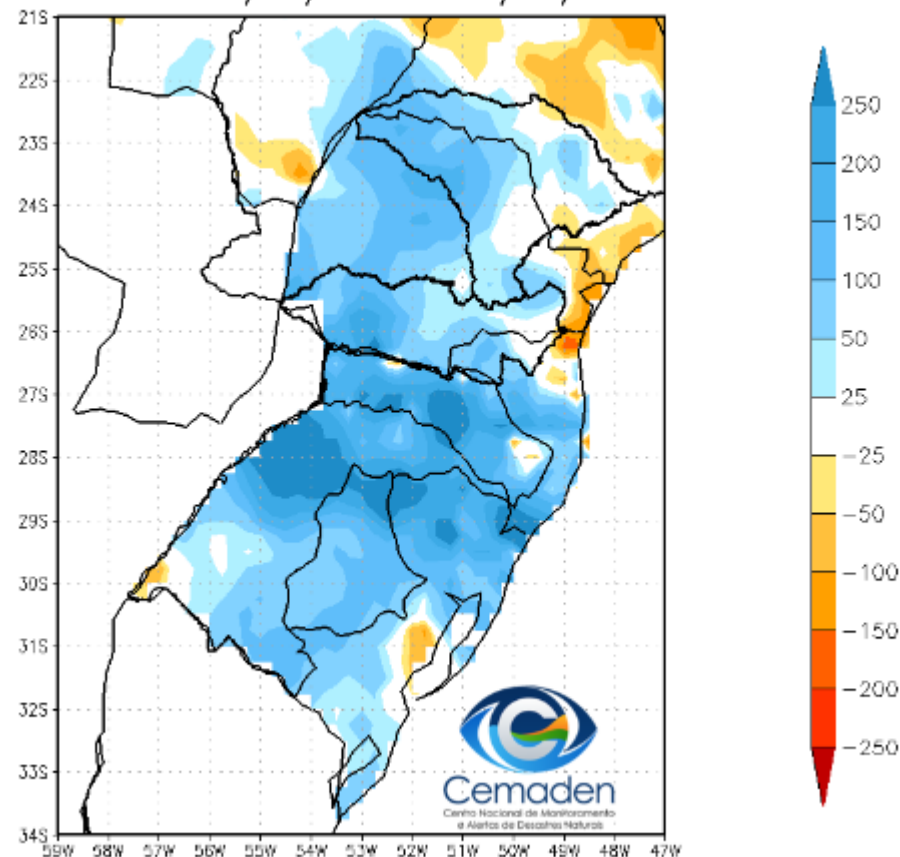


## Precipitação nos últimos 30 dias

Precipitação Acumulada (mm) A.S.  
Período: 12/11/2023 a 12/12/2023

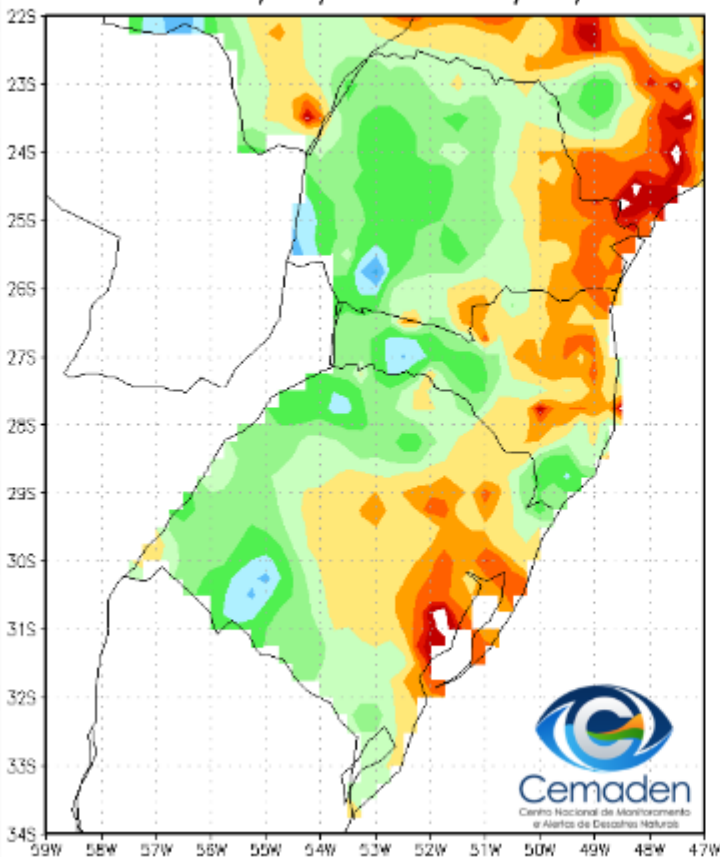


Anomalia de Precipitação (mm) A.S.  
Período: 12/11/2023 a 12/12/2023

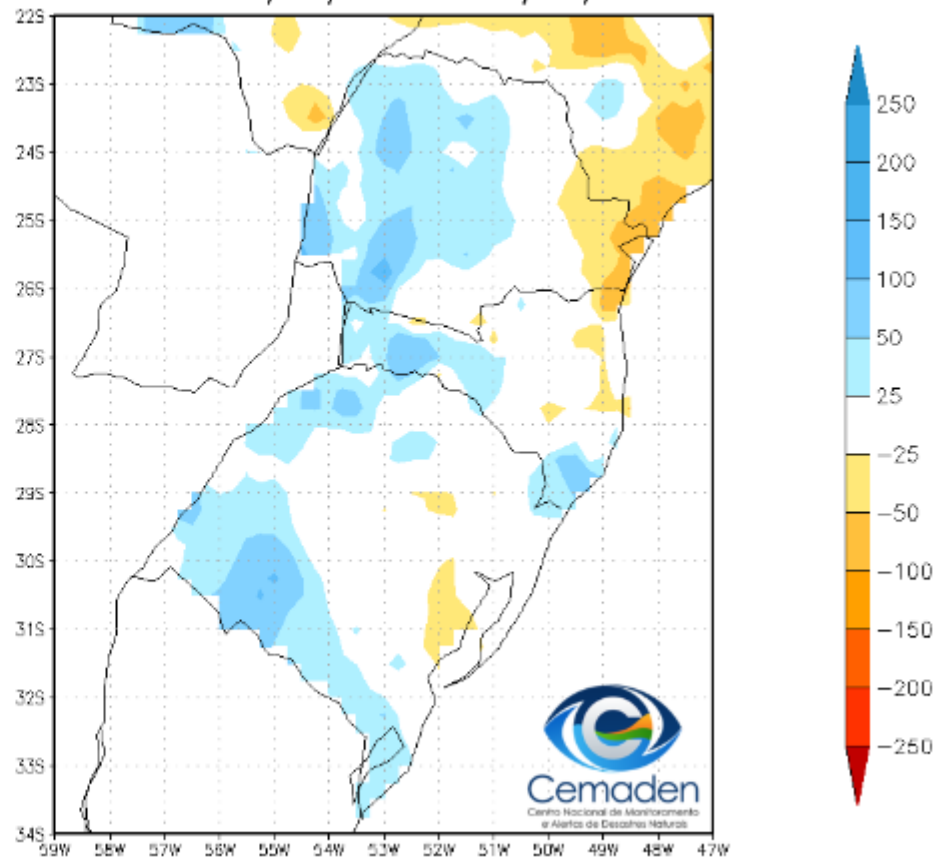


## PRECIPITAÇÃO: DEZEMBRO 2023

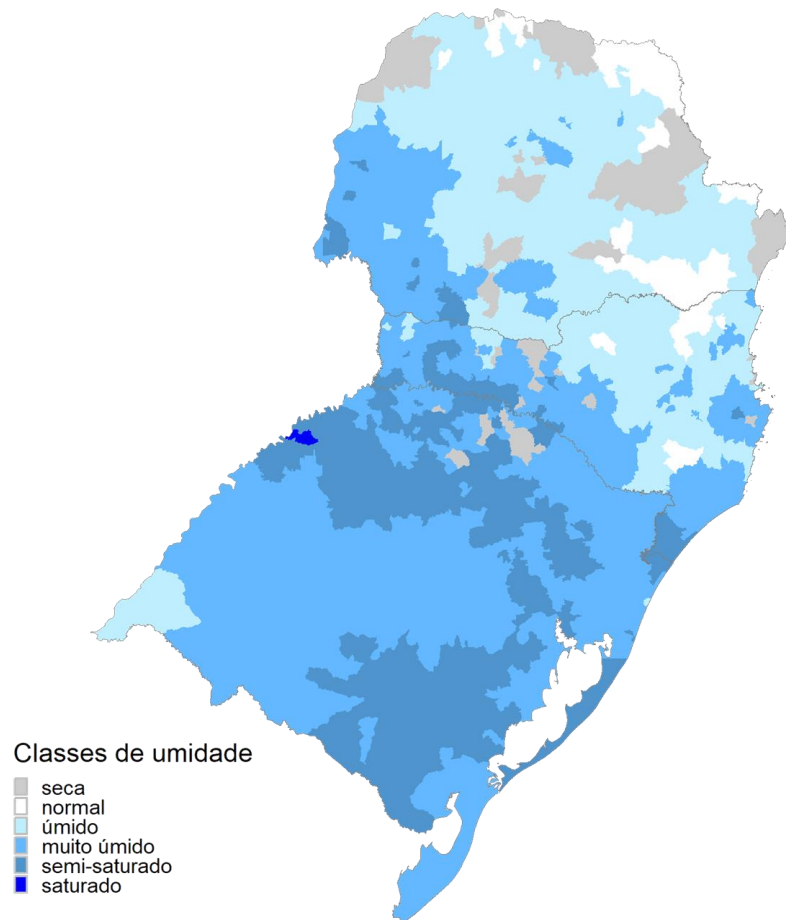
Precipitação Acumulada (mm)  
Período: 01/12/2023 a 12/12/2023



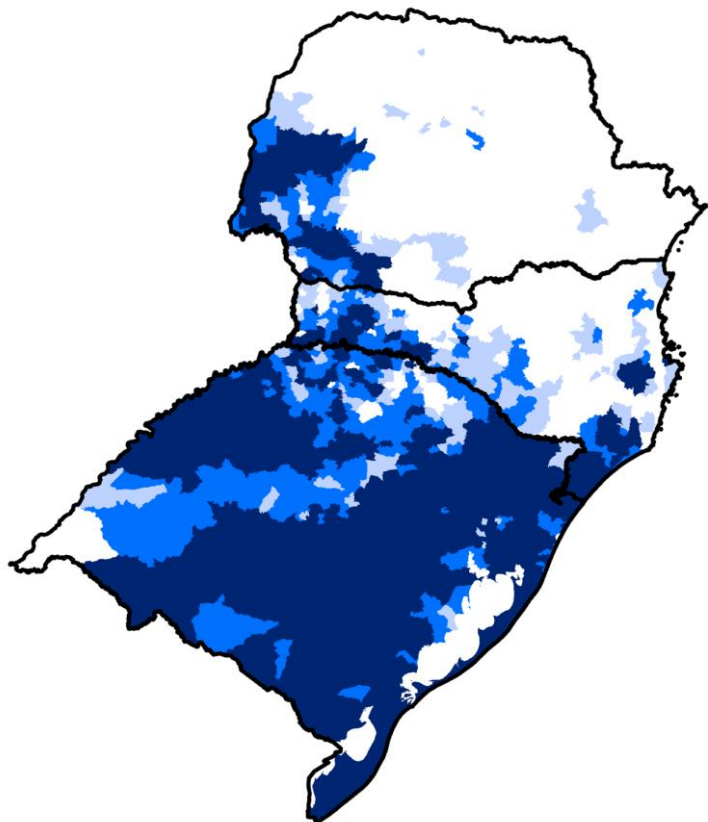
Anomalia de Precipitação (mm)  
Período: 01/12/2023 a 12/12/2023



# IARA (SPI, SM, VHI - OUT - Nov)



## ESTIMATIVA DE ÁREAS DE PASTAGENS E AGRÍCOLAS AFETADAS PELO EXCESSO DE CHUVA



UF	40 a 60%	60 - 80%	> 80%
PR	28	22	53
SC	56	50	73
RS	34	100	345

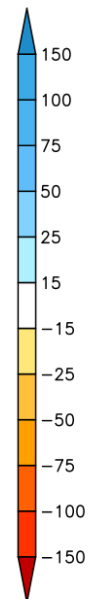
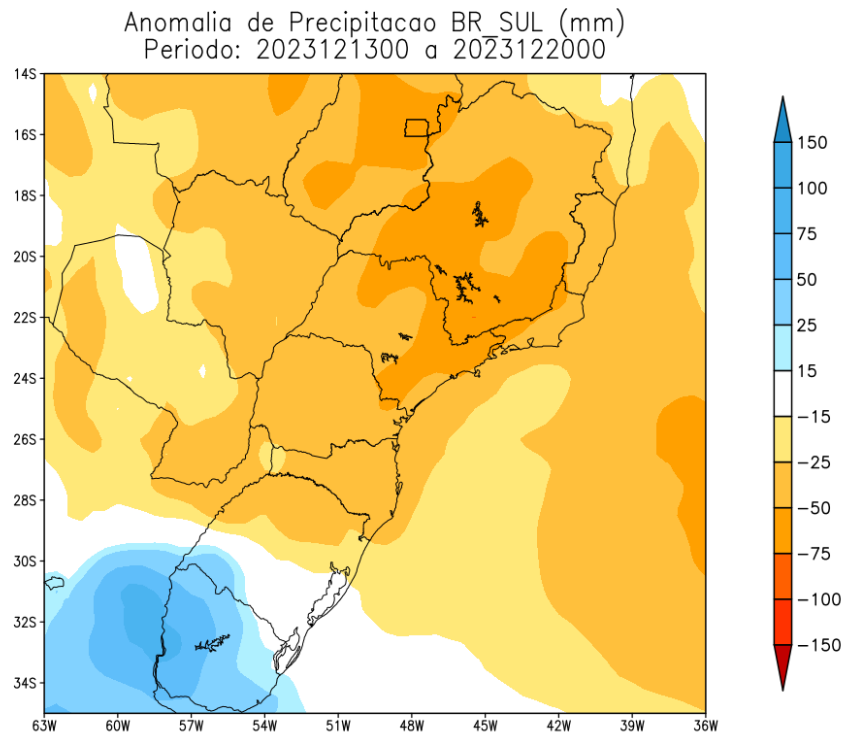
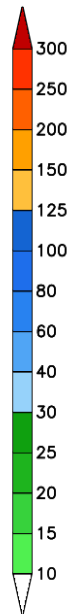
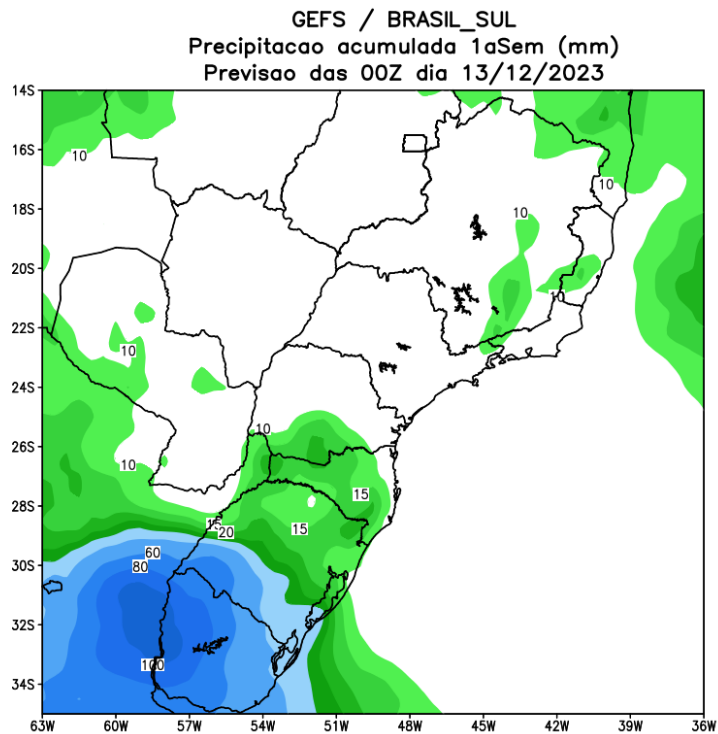
	40 a 60%	60 - 80%	> 80%	Imóveis Rurais Impactados > 40%
<b>Paraná</b>				
Minifundio	20080 (8%)	19067 (7%)	50628 (19%)	89775 (34%)
Pequena Propriedade	9723 (8%)	8878 (7%)	21098 (17%)	39699 (31%)
Media Propriedade	1801 (7%)	1371 (5%)	2141 (8%)	5313 (20%)
<b>Santa Catarina</b>				
Minifundio	40828 (18%)	41771 (18%)	70627 (131%)	153226 (66%)
Pequena Propriedade	15584 (19%)	11772 (14%)	11772 (19%)	43048 (52%)
Media Propriedade	1965 (20%)	1134 (11%)	563 (6%)	3662 (37%)
<b>Rio Grande do Sul</b>				
Minifundio	18368 (5%)	64637 (18%)	276501 (75%)	359506 (98%)
Pequena Propriedade	1385 (5%)	5547 (19%)	17174 (73%)	133887 (97%)
Media Propriedade	1385 (6%)	5547 (22%)	17174 (69%)	24106 (97%)

Impacto: Muito úmido à saturado.

# Situação meteorológica atual



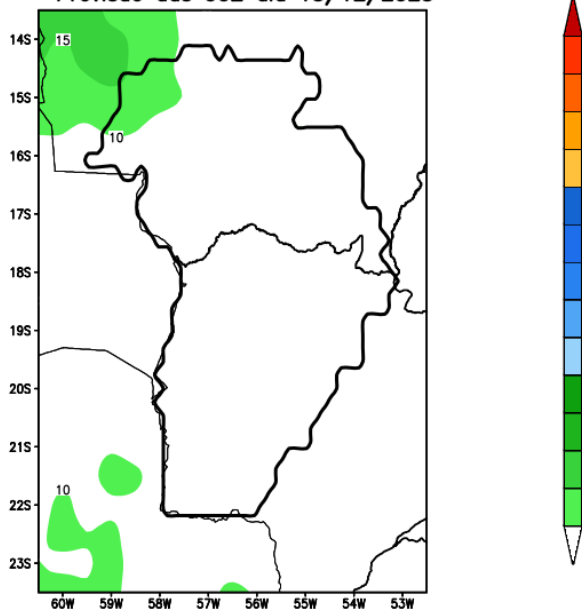
# Previsão de chuva próximos 7 dias



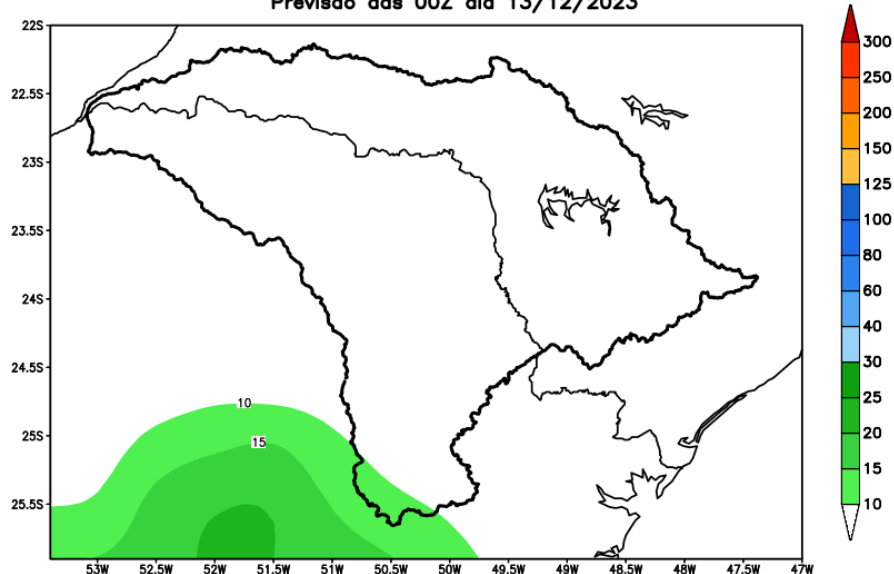
MODELO GFS

# Previsão para as principais bacias

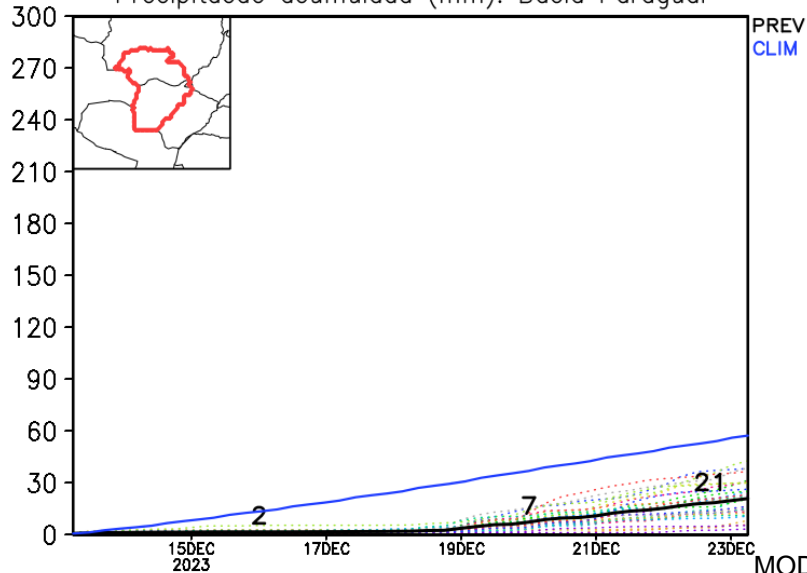
GEFS / Bacia do Rio Paraguai  
Precipitação acumulada em 7 dias (mm)  
Previsão das 00Z dia 13/12/2023



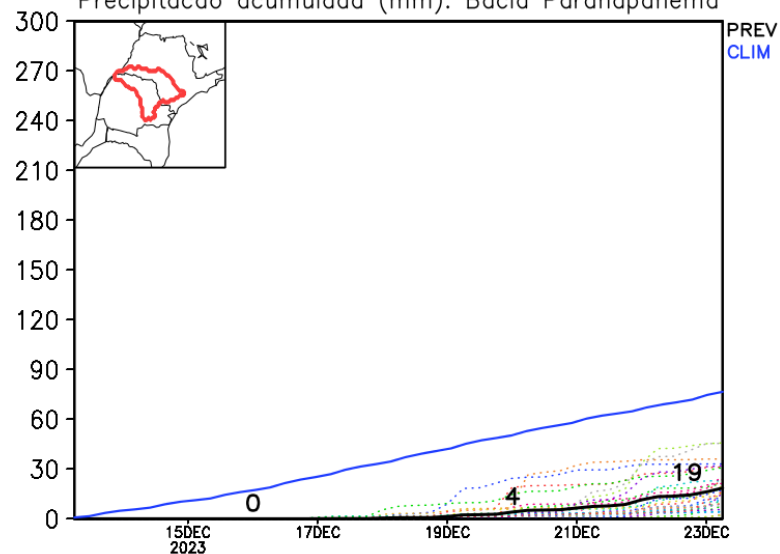
GEFS / Bacia do Rio Paranapanema  
Precipitação acumulada em 7 dias (mm)  
Previsão das 00Z dia 13/12/2023



Precipitação acumulada (mm): Bacia Paraguai



Precipitação acumulada (mm): Bacia Paranapanema

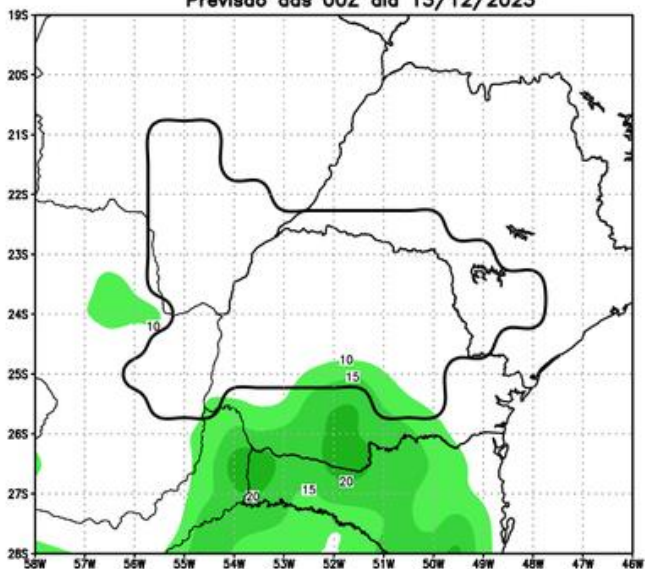


MODELO GFS

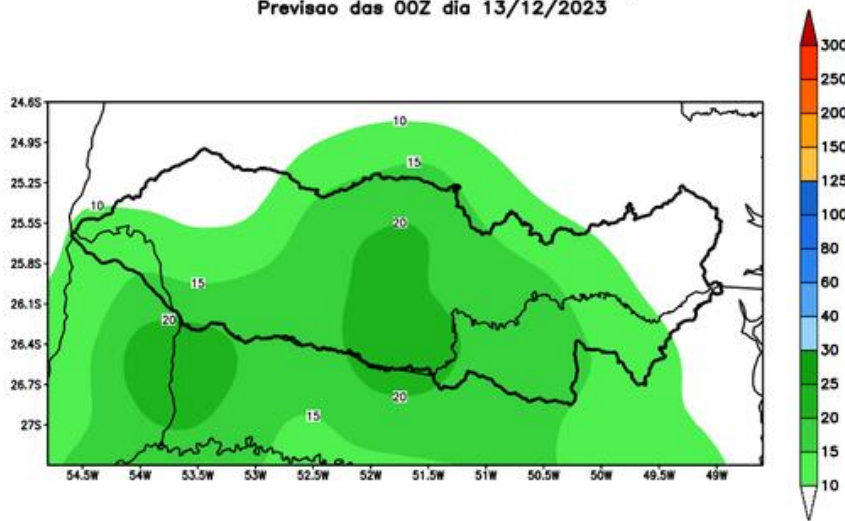


# Previsão para as principais bacias

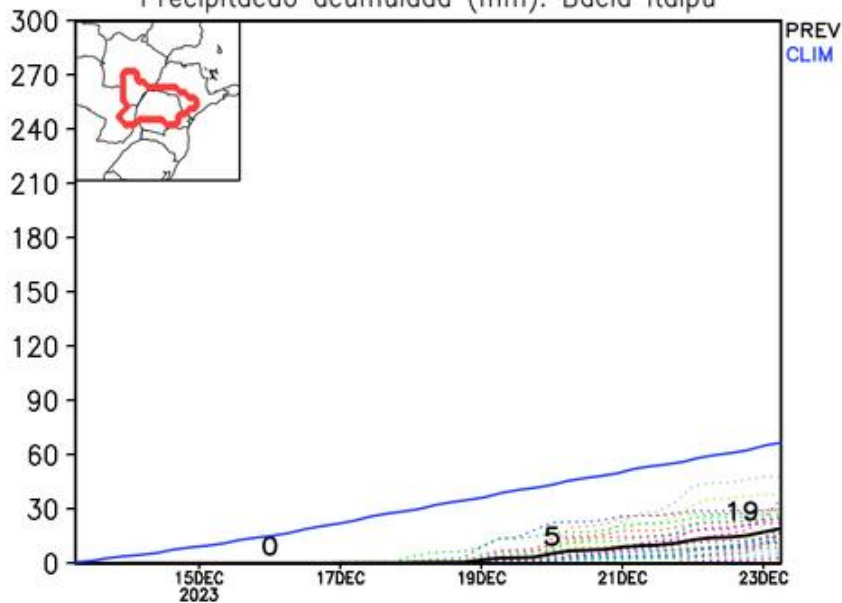
GEFS / Itaipu  
Precipitação acumulada em 7 dias (mm)  
Previsão das 00Z dia 13/12/2023



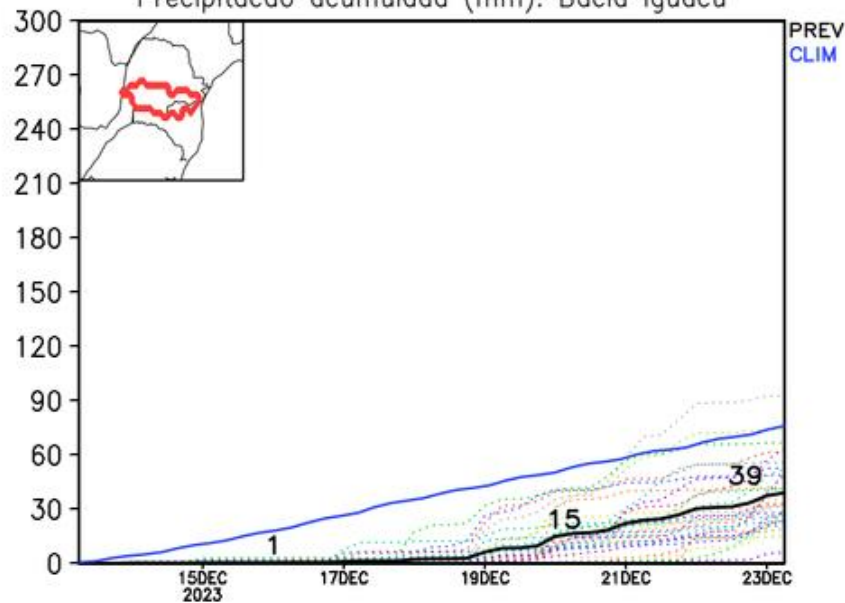
GEFS / Bacia do Rio Iguacu  
Precipitação acumulada em 7 dias (mm)  
Previsão das 00Z dia 13/12/2023



Precipitação acumulada (mm): Bacia Itaipu

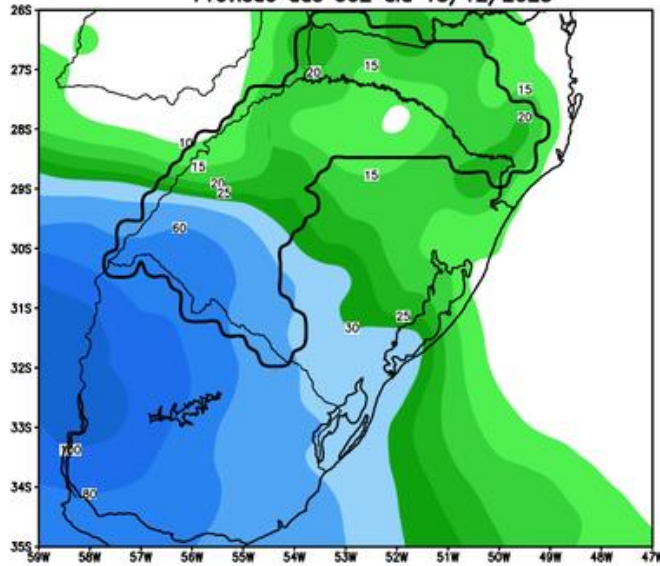


Precipitação acumulada (mm): Bacia Iguacu

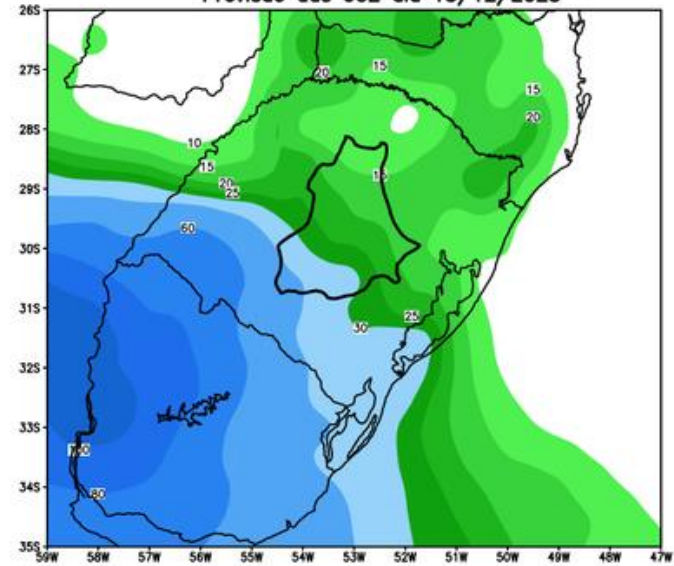


# Previsão para as principais bacias

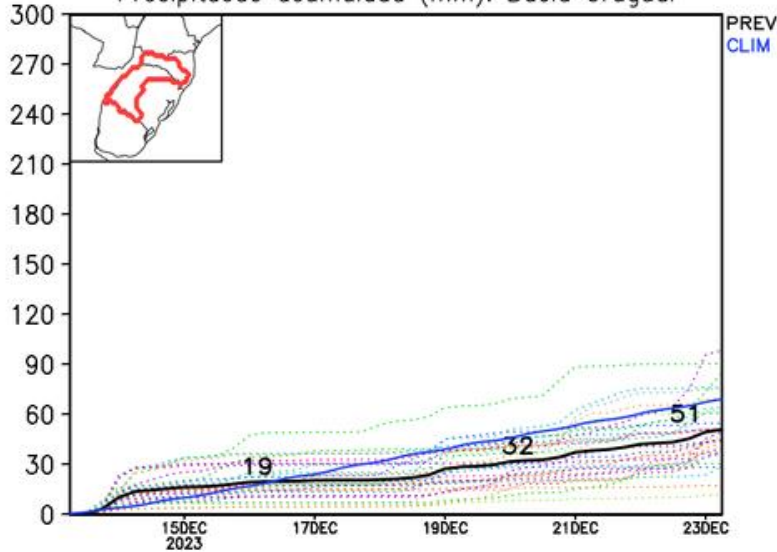
GEFS / Bacia do Rio Uruguai  
Precipitação acumulada em 7 dias (mm)  
Previsão das 00Z dia 13/12/2023



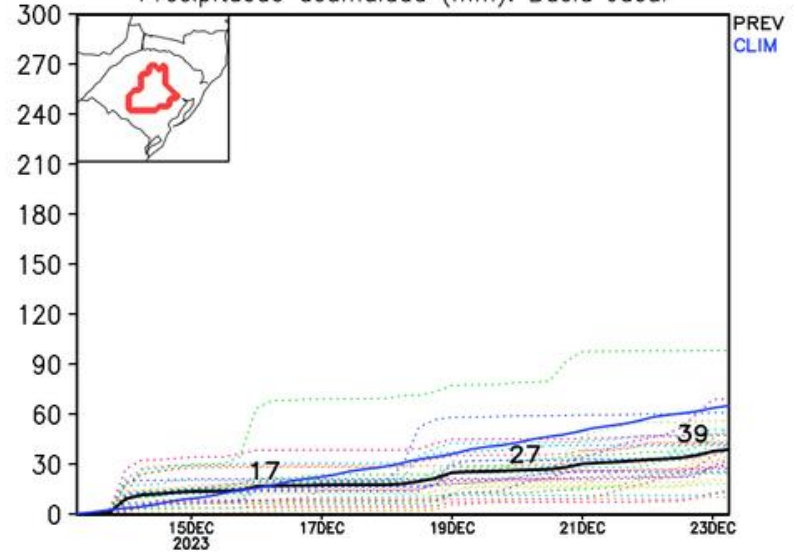
GEFS / Bacia do Rio Jacui  
Precipitação acumulada em 7 dias (mm)  
Previsão das 00Z dia 13/12/2023



Precipitação acumulada (mm): Bacia Uruguai

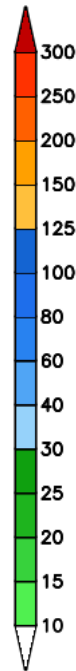
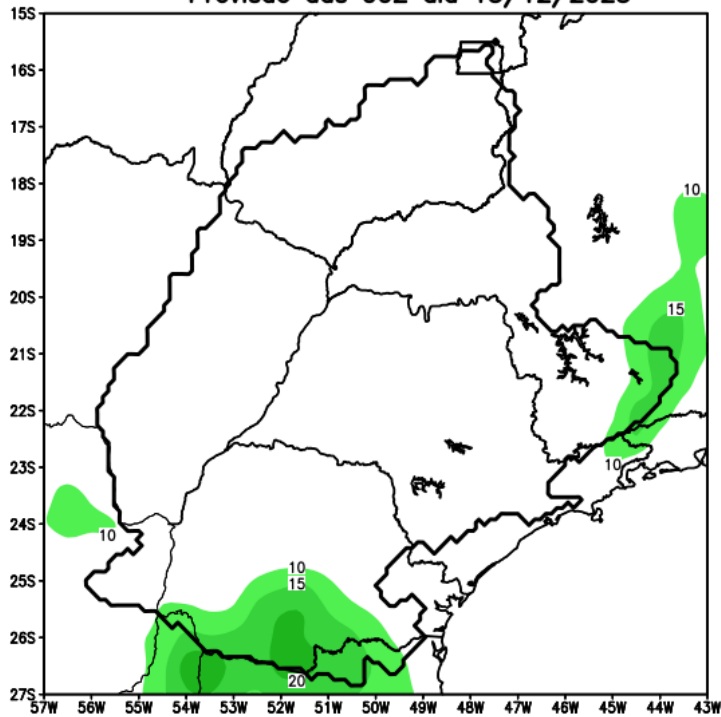


Precipitação acumulada (mm): Bacia Jacui

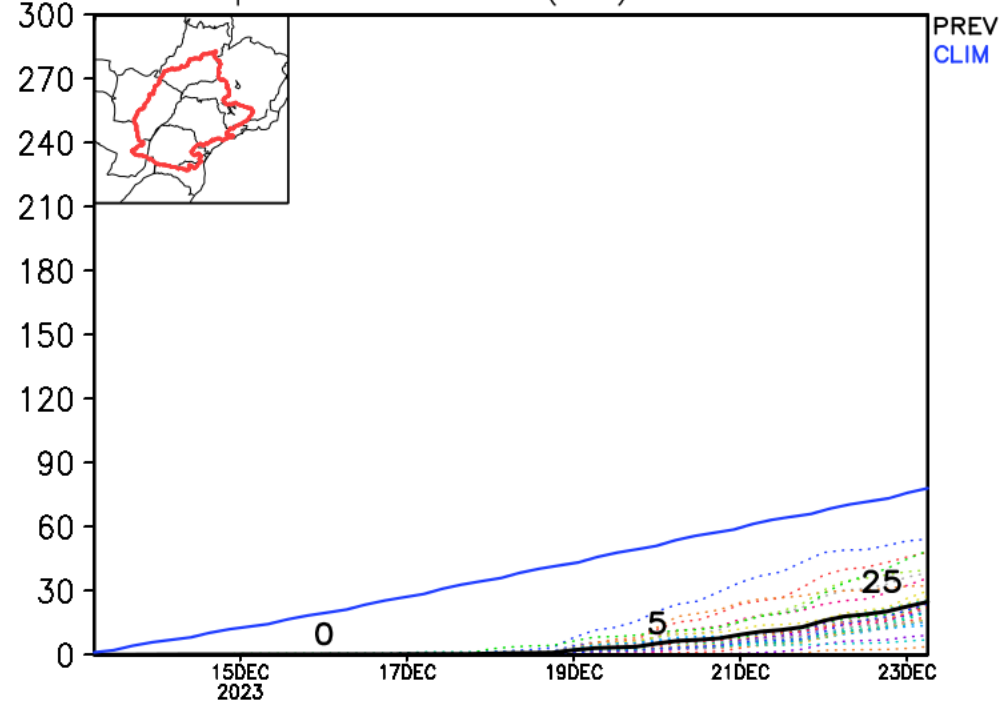


# Previsão para as principais bacias

GEFS / Bacia do Parana  
Precipitacao acumulada em 7 dias (mm)  
Previsao das 00Z dia 13/12/2023

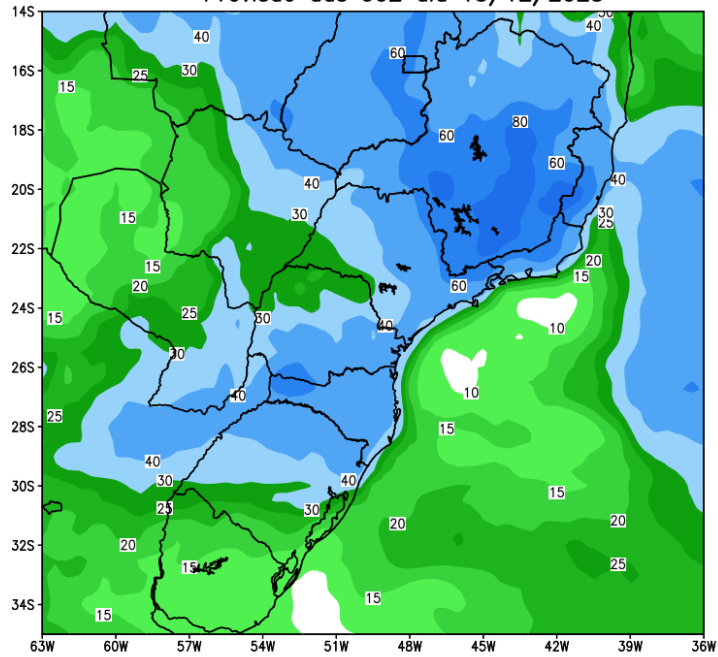


Precipitacao acumulada (mm): Bacia Parana

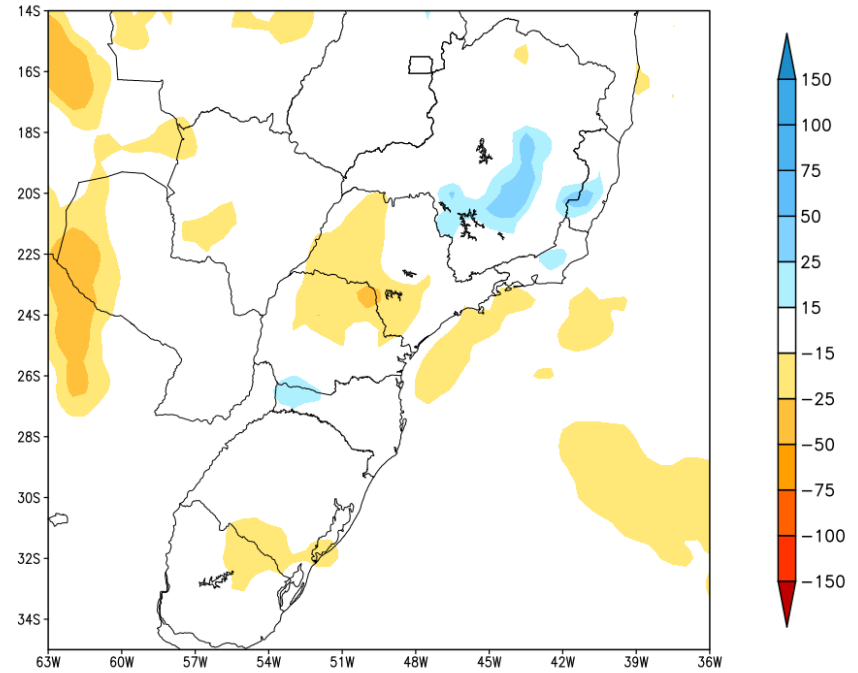


# Tendência para a segunda semana

GEFS / BRASIL\_SUL  
Precipitacao acumulada 2aSem (mm)  
Previsao das 00Z dia 13/12/2023



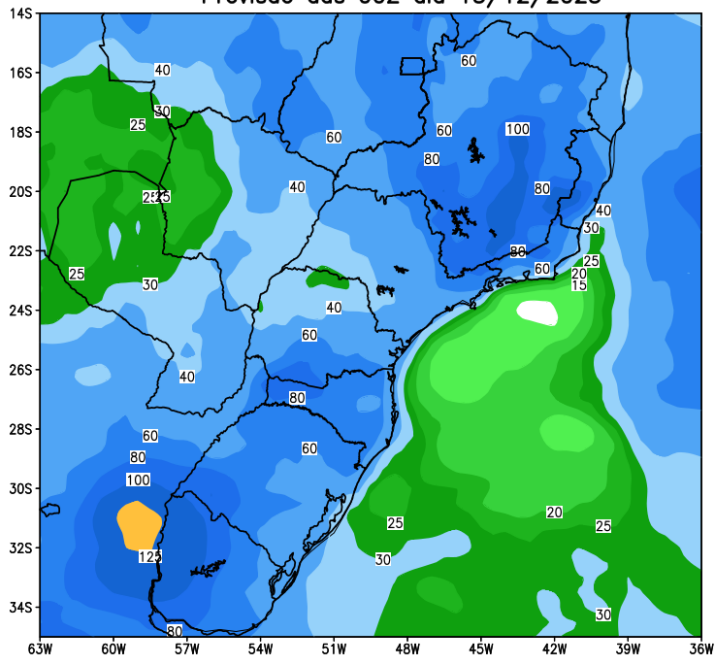
Anomalia de Precipitacao BR\_SUL (mm)  
Periodo: 2023122100 a 2023122700



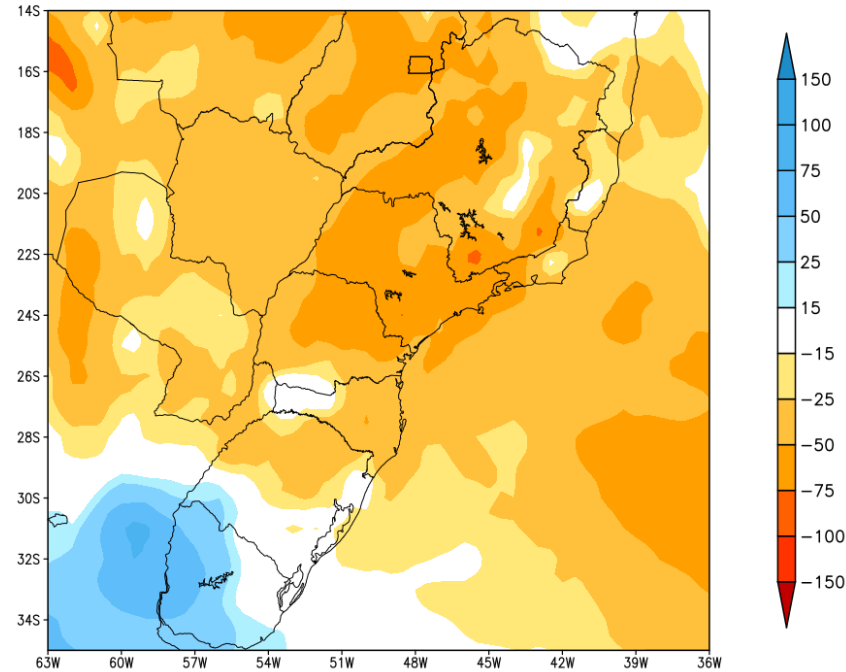
MODELO GFS

# Tendência para as duas próximas semanas

GEFS / BRASIL\_SUL  
Precipitacao acumulada 14 dias (mm)  
Previsao das 00Z dia 13/12/2023

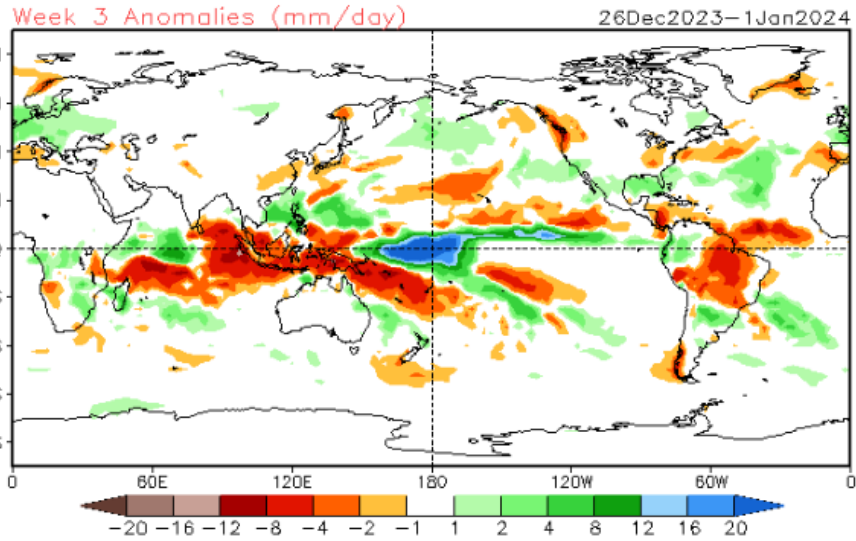


Anomalia de Precipitacao BR SUL (mm)  
Periodo: 2023121300 a 2023122700

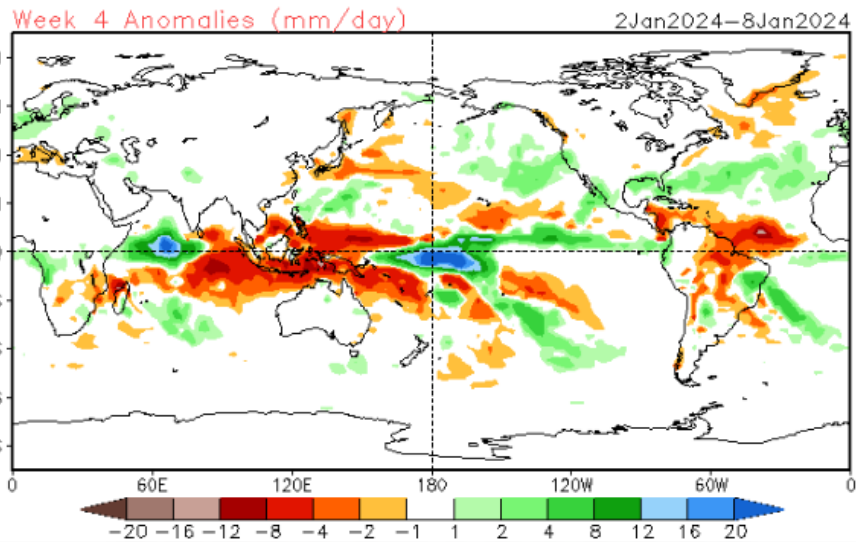
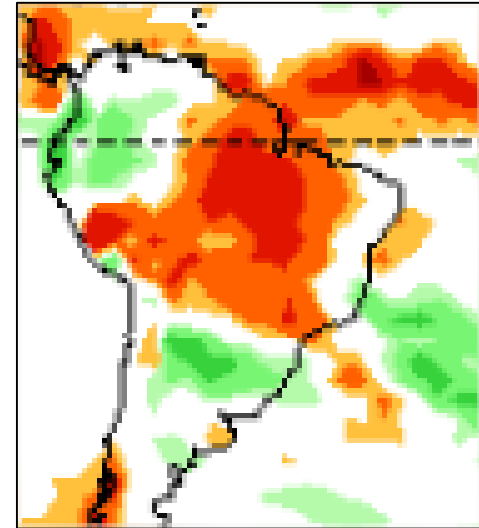


MODELO GFS

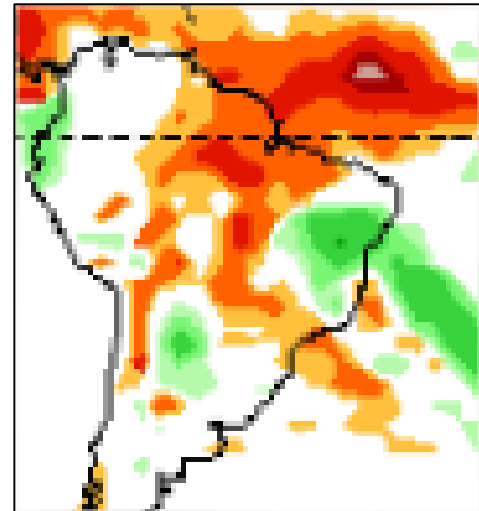
# Tendência 3a e 4a semanas



2612-01/01

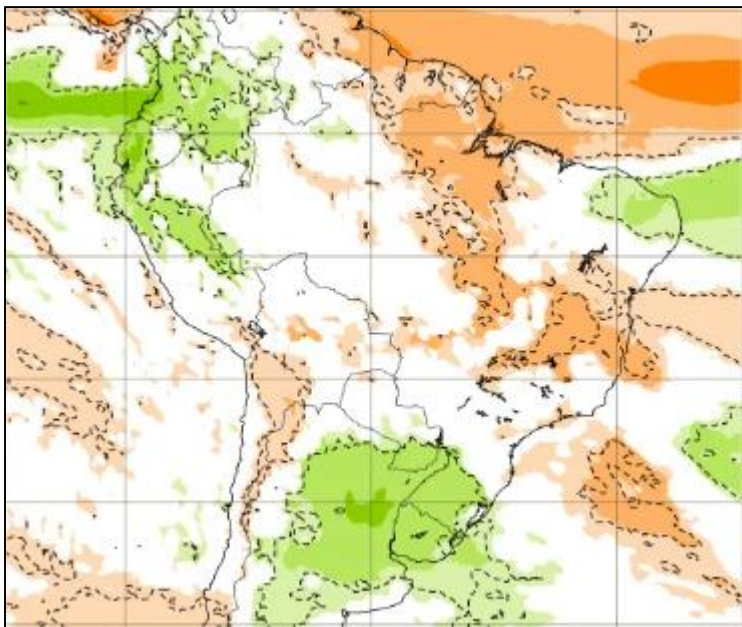


02-08/01

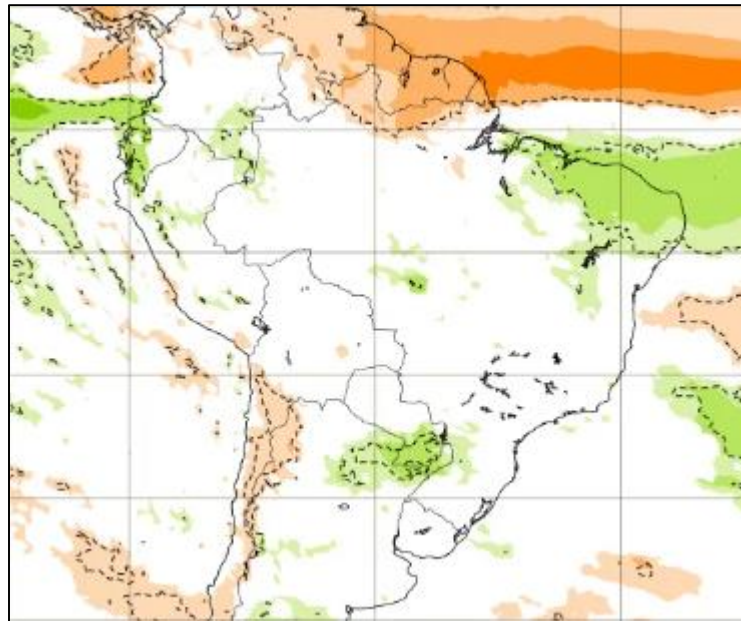


# Tendência para 3ª e 4ª semanas

25-31/12

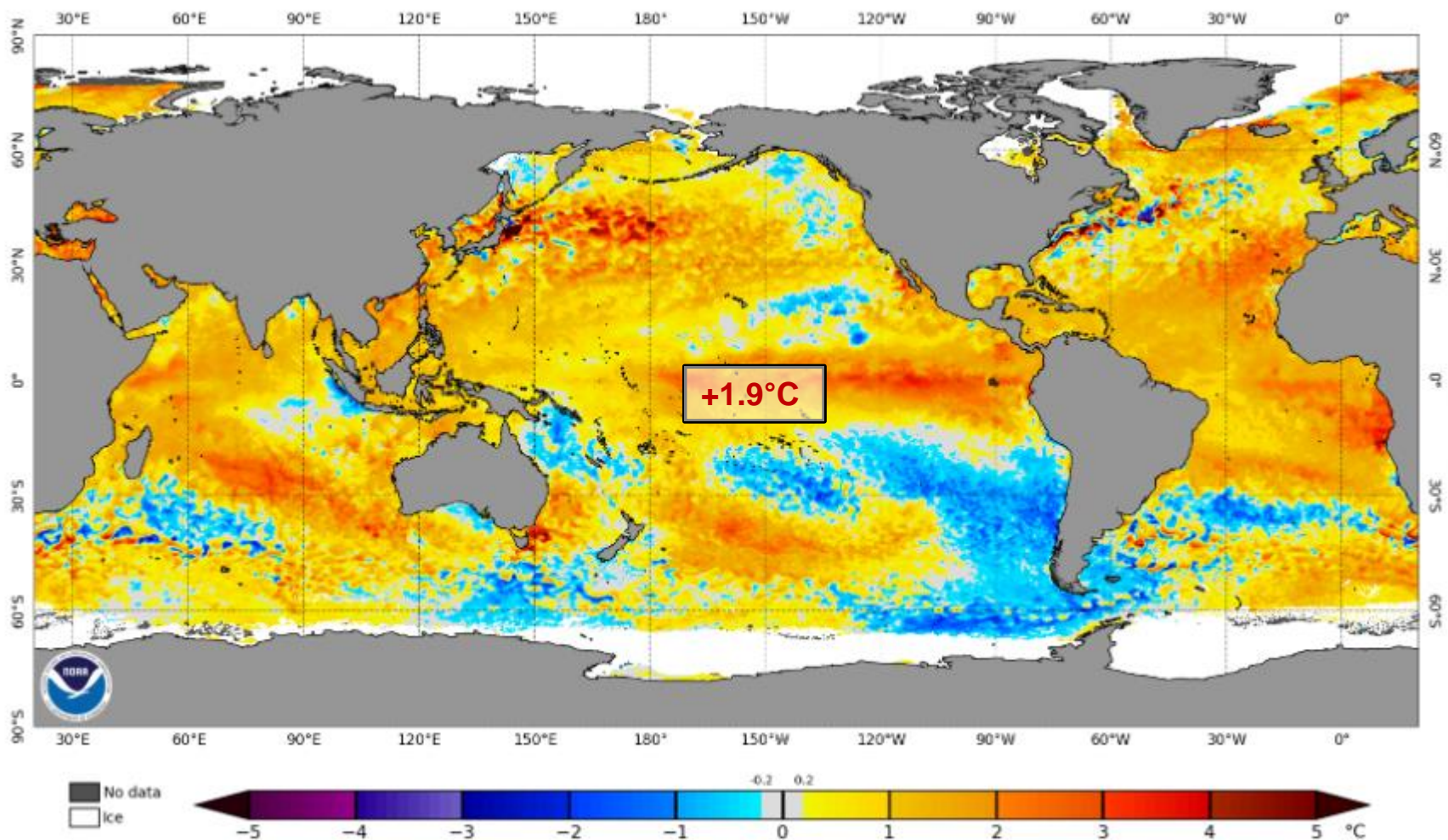


04-11/12



Status Atual: **El Niño**

NOAA Coral Reef Watch Daily 5km SST Anomalies (v3.1) 11 Dec 2023





# Previsão do “ENSO”

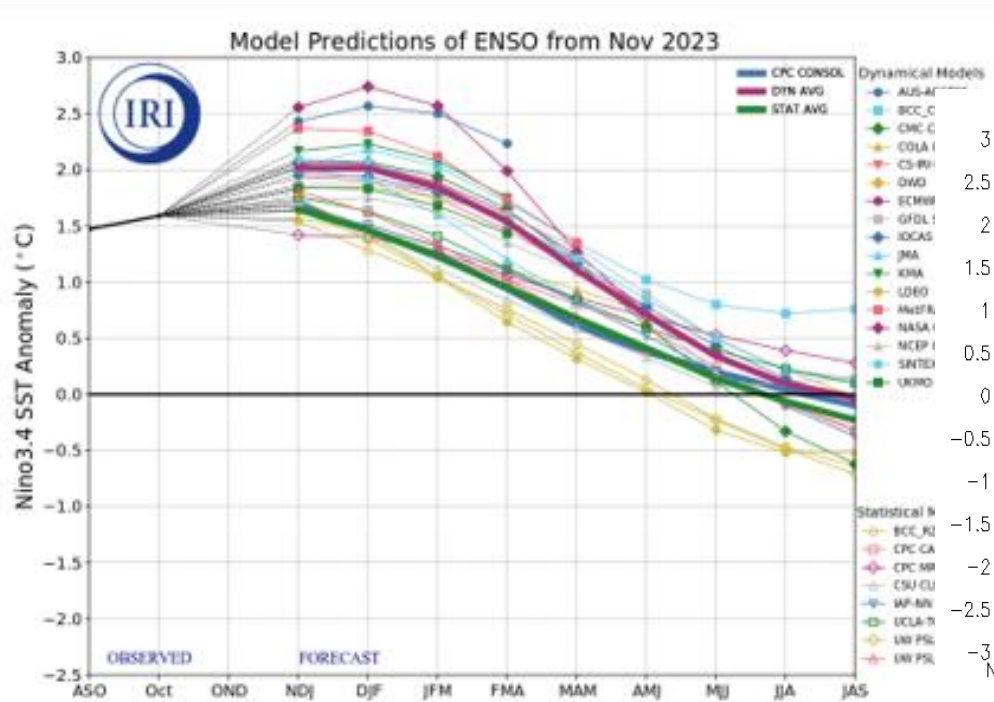
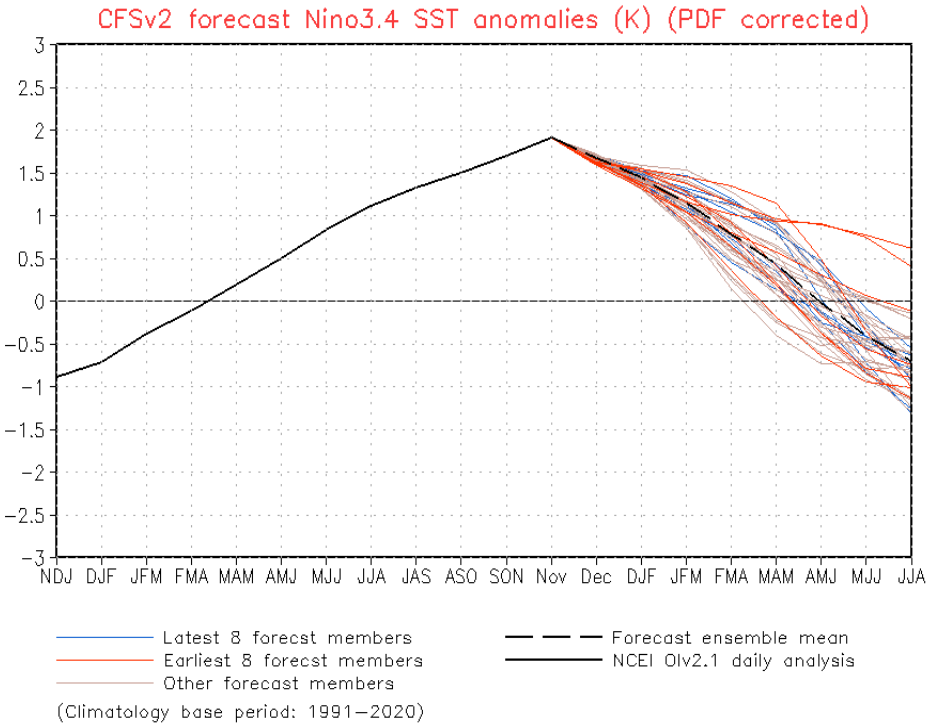
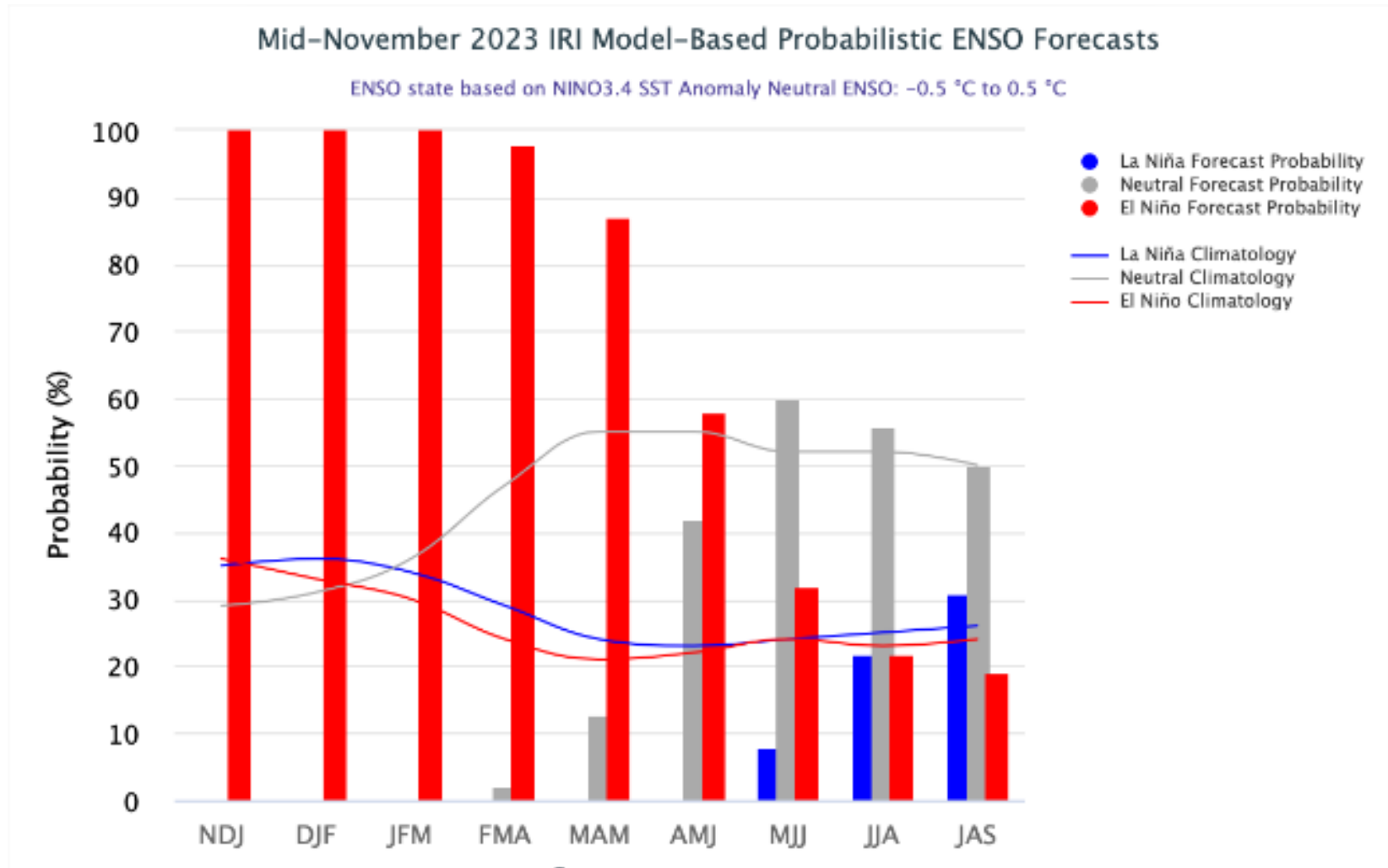


Figure provided by the International Research Institute (IRI) for Climate and Society (updated 20 November 2023).

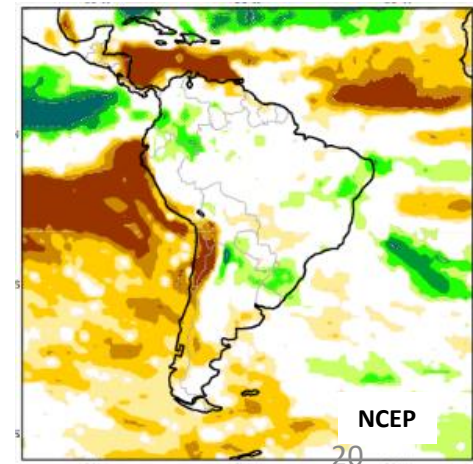
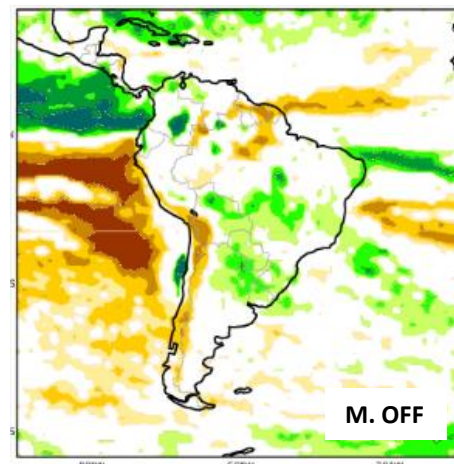
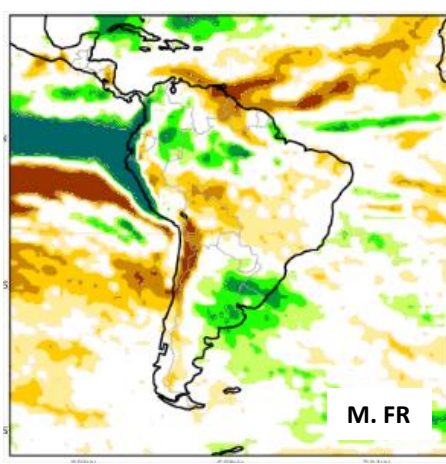
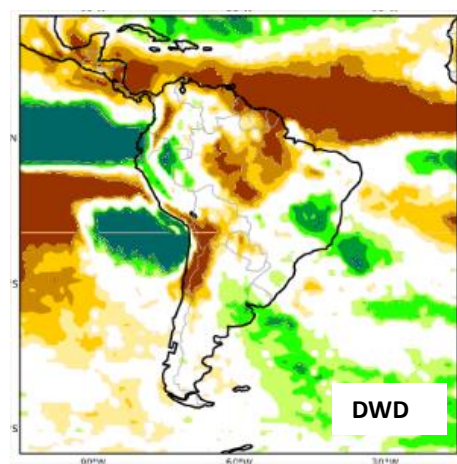
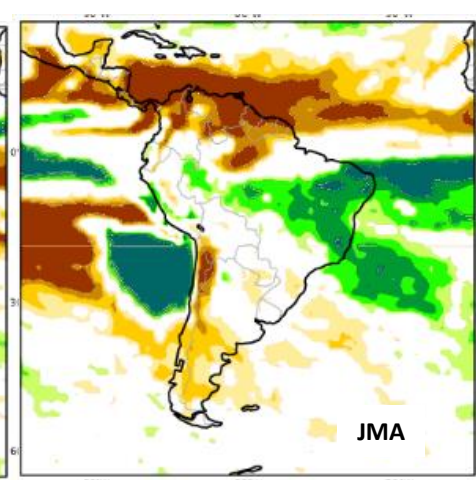
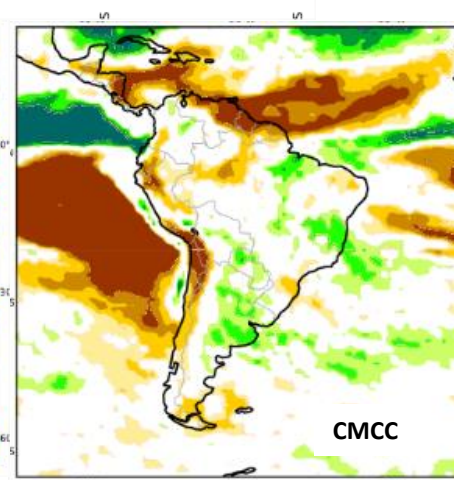
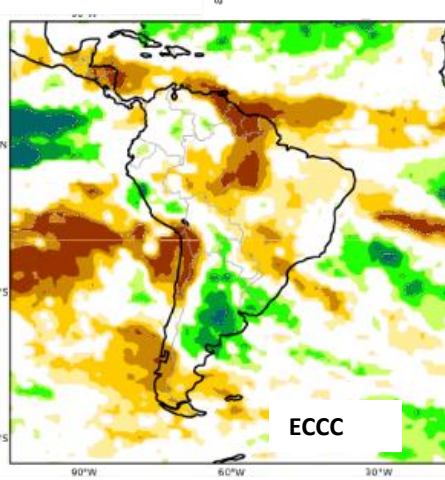
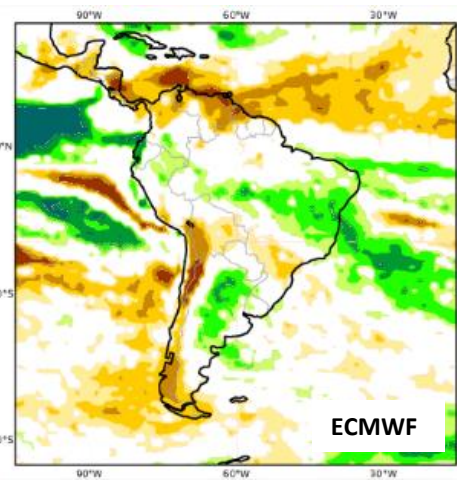
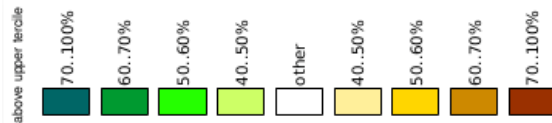


Atualizado 11 de dezembro

# Previsão do “ENSO”

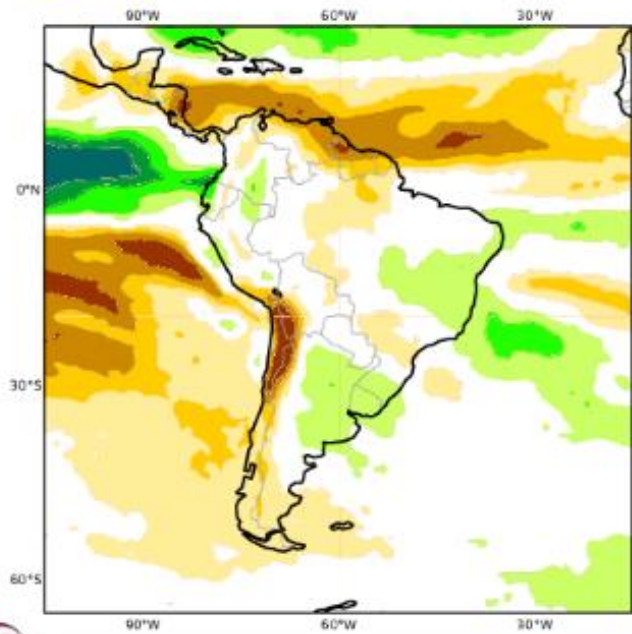


# Previsão Sazonal de Chuva JFM

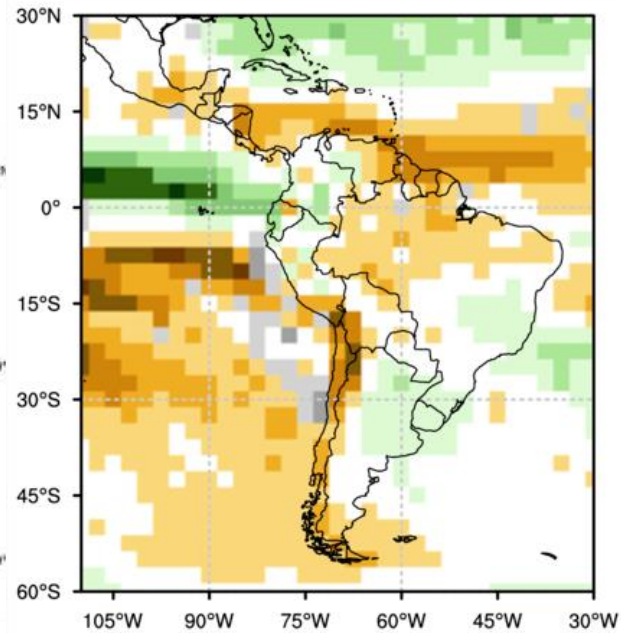


# Previsão Sazonal de Chuva Multi-Modelo para JFM

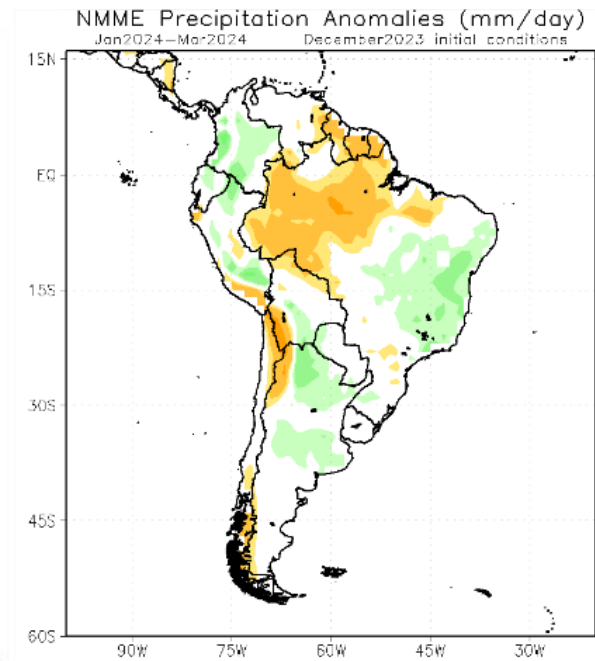
C3S multi-system seasonal forecast  
Prob(most likely category of precipitation)  
Nominal forecast start: 01/12/23  
Unweighted mean



Modelos Europeus



Modelos da Organização Meteorológica Mundial



Modelos Americanos