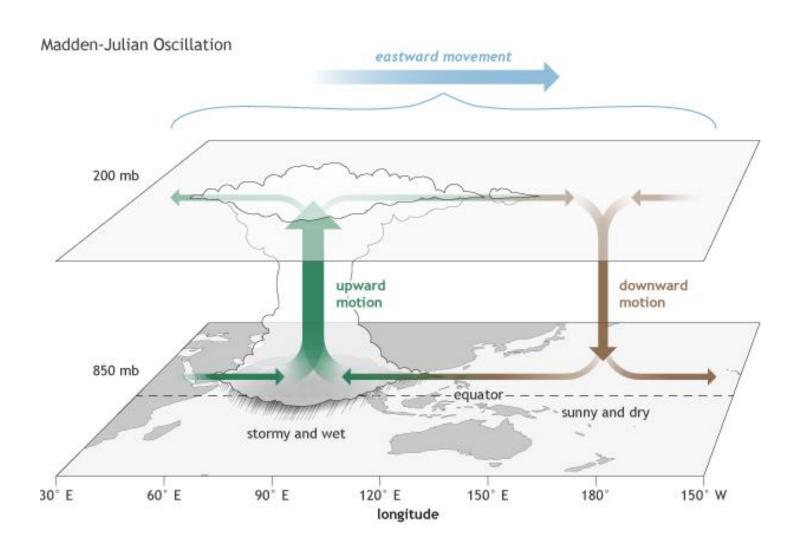


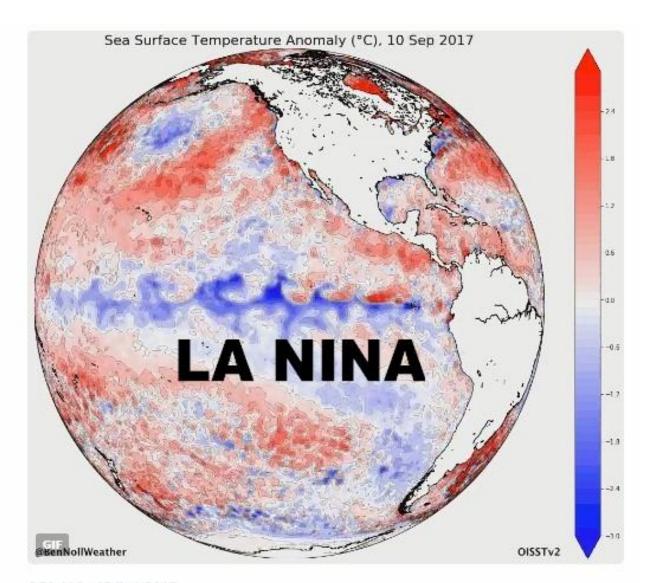
Weather Forecasting For Traders, Investors, and Businesses

## S.AMERICA GRAIN WEATHER ISSUES

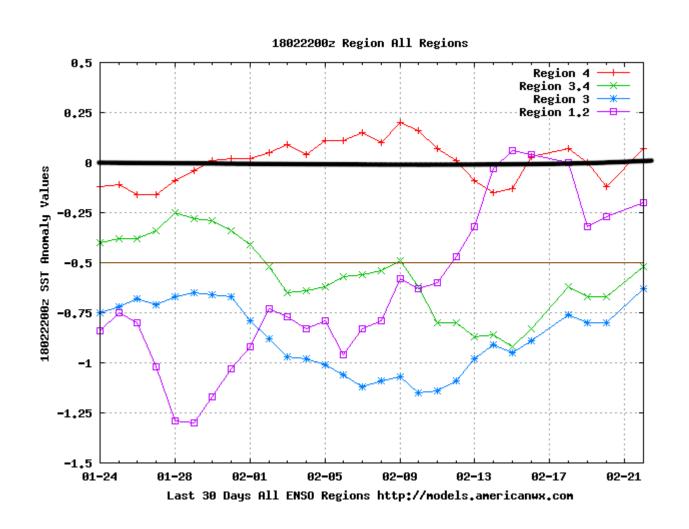
as of FRIDAY
23 FEBRUARY 2018

#### LETS TALK MJO/ENSO





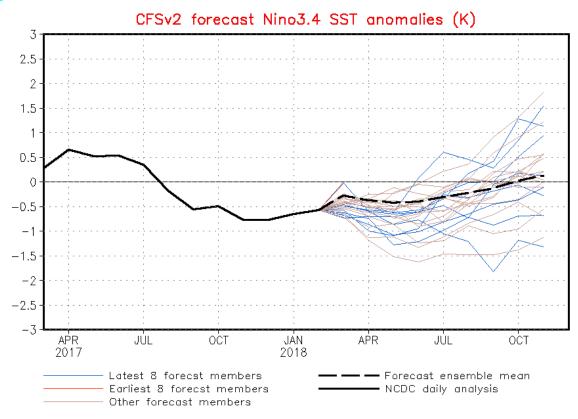
## ACTUAL SEA SURFACE TEMP ANOMALIES – of all 4 regions.. LA NINA NOW HOLDING



#### LATEST CFS MODEL PROJECTION = \*\* La Nina WEAKENING BY APRIL



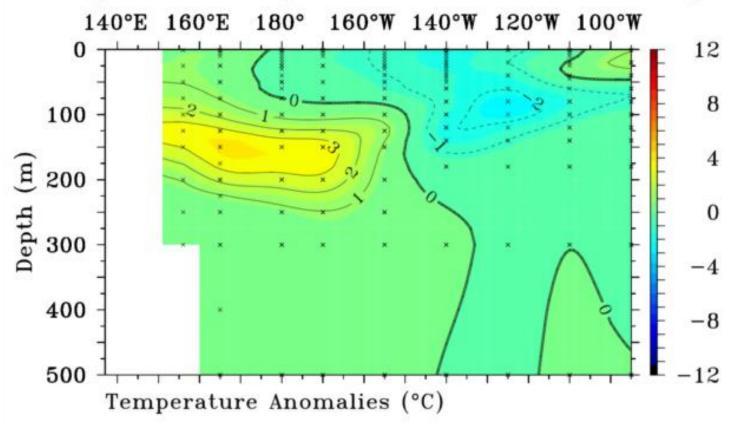
Last update: Thu Feb 22 2018
Initial conditions: 23Jan2018—1Feb2018



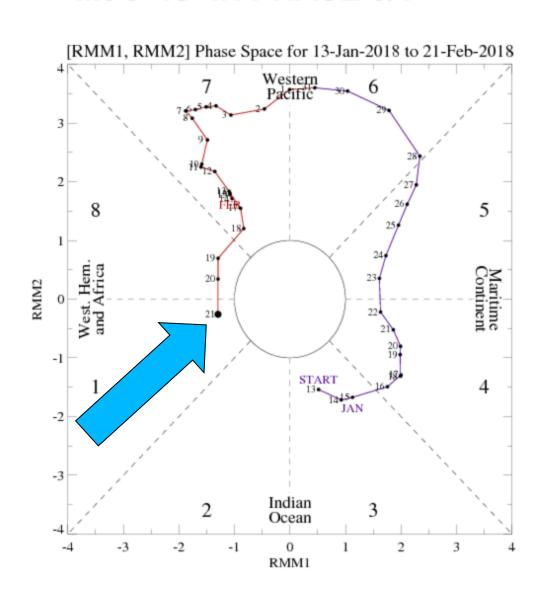
## LOOKING BENEATH THE SURFACE ALONG EQUATORIAL PACIFIC ...WEAK LA NINA HOLDING ON

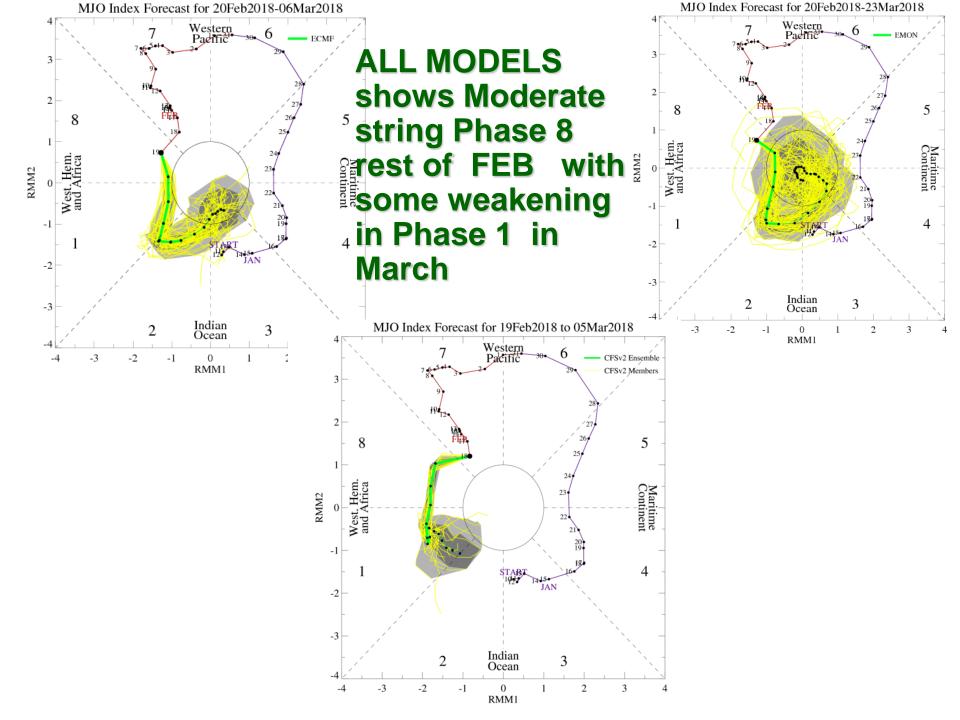
Five-Day Data

Ending On February 21 2018 2°S to 2°N Average



#### **MJO IS IN PHASE 8/1**

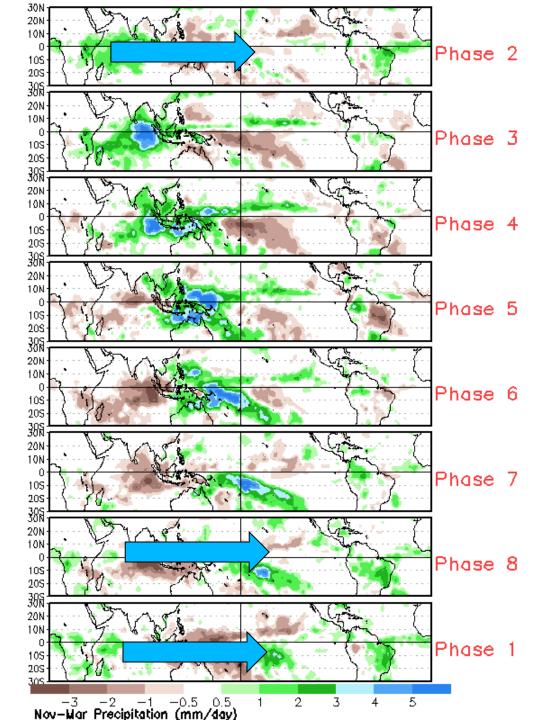




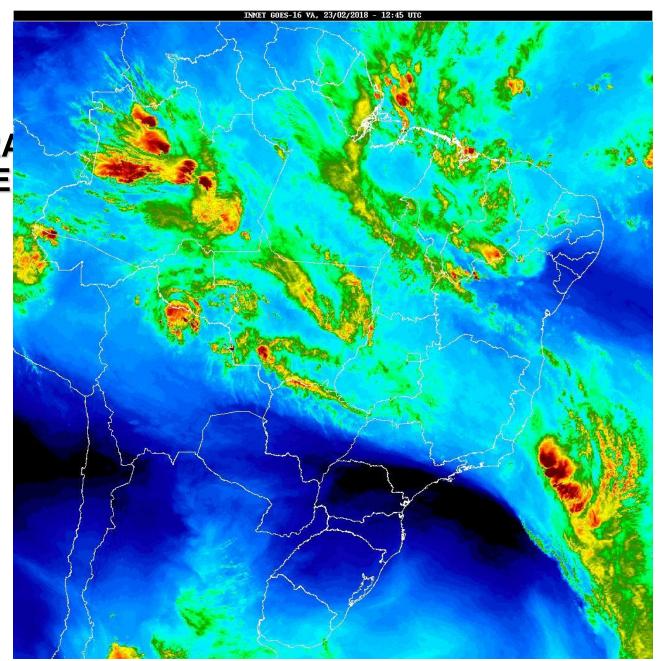
PHASE 8 BRAZIL TURNS WET BELOW NORMAL RAINS OVER ARG

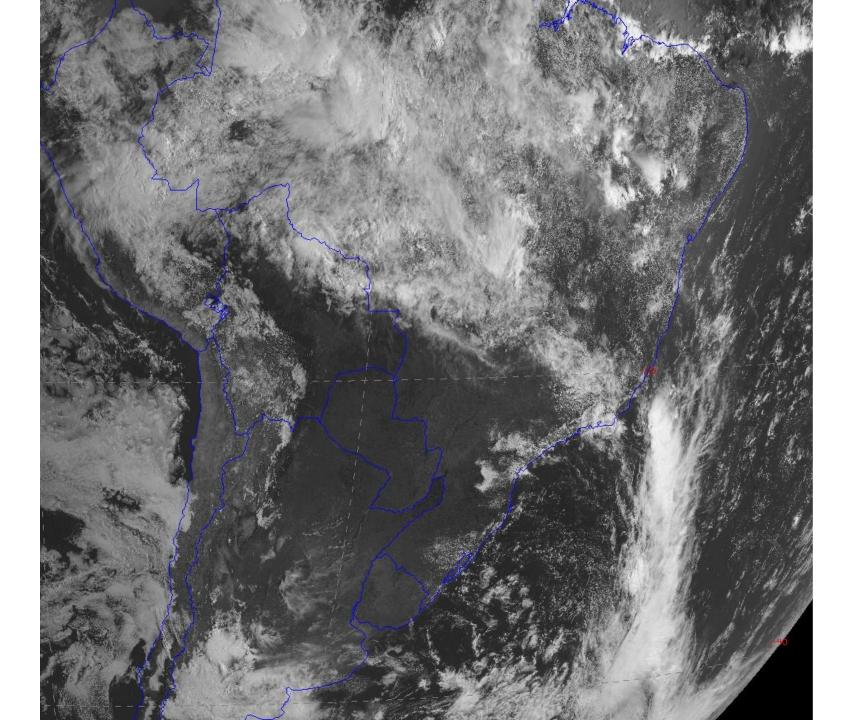
**SAME PHASE 1** 

**SAME PHASE 2** 

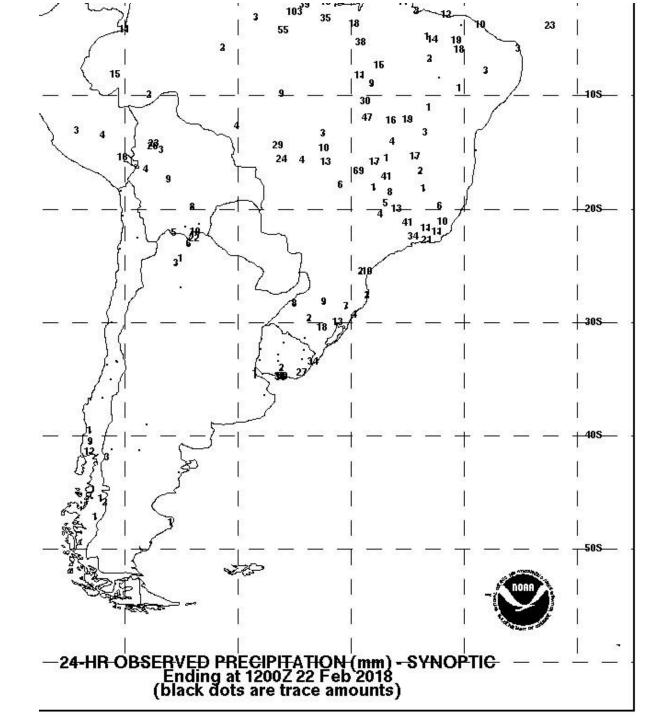


MID FRI MORNING INFRA RED SATELLITE





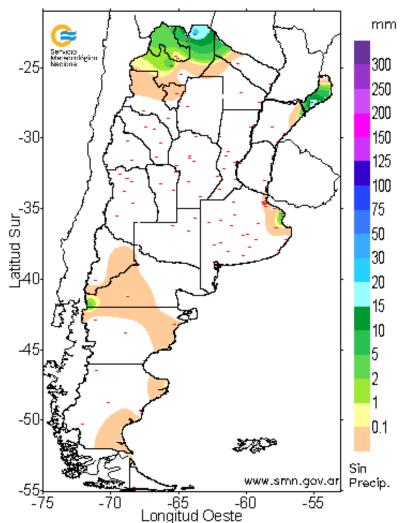
#### RAINFALL FEB 21-22

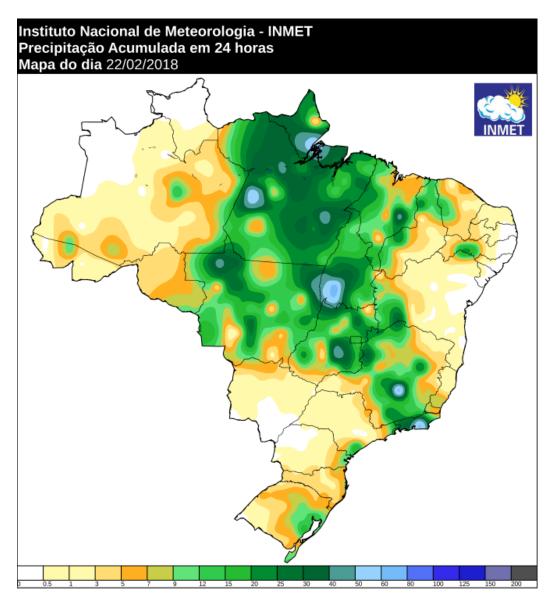


PRECIP FEB 22-23 DRY ALL OF AG ... 10-50mm over central Minas much of Goias Mato Grosso

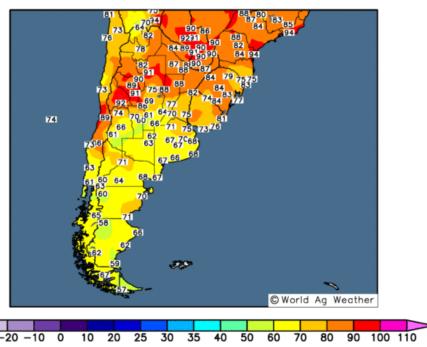
**Tocatins** Servicio Meteorológico Nacional

PRECIPITACION (EN MILIMETROS) ACUMULADA EN 24 HORAS Los valores corresponden al periodo comprendido entre las 9 hs. del 21 /02 / 2018 y las 9 hs. del 22 / 02 / 2018





Observed Maximum Temperature (°F) 21 Feb 2018

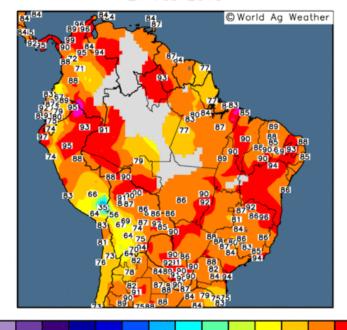


Map updates daily by approximately 16:00 UTC

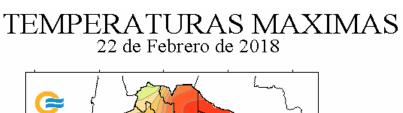
#### FEB 21 MAX TEMPS Brazil

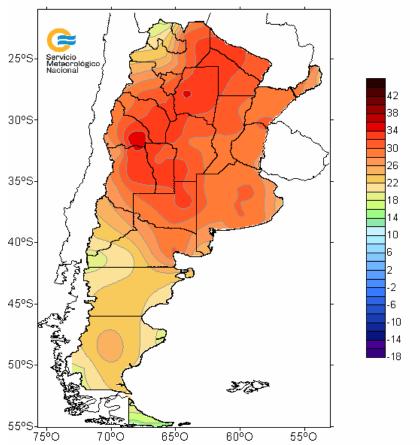
#### FEB 21MAX TEMPS ARG

Observed Maximum Temperature (°F) 21 Feb 2018

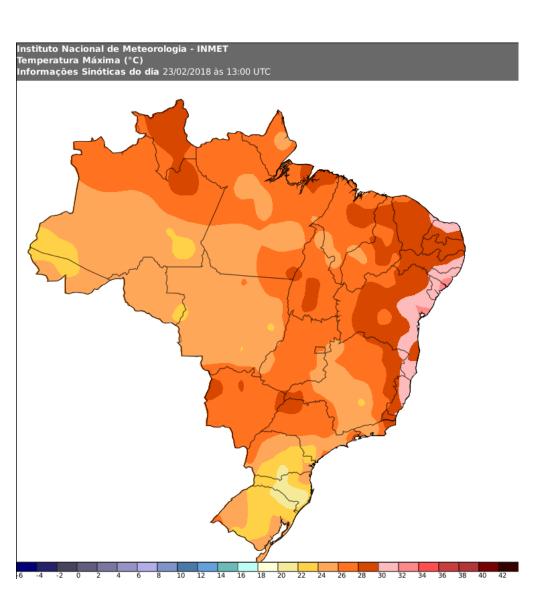


#### **MAZ TEMP FEB 22 IN AG & BRAZIL**



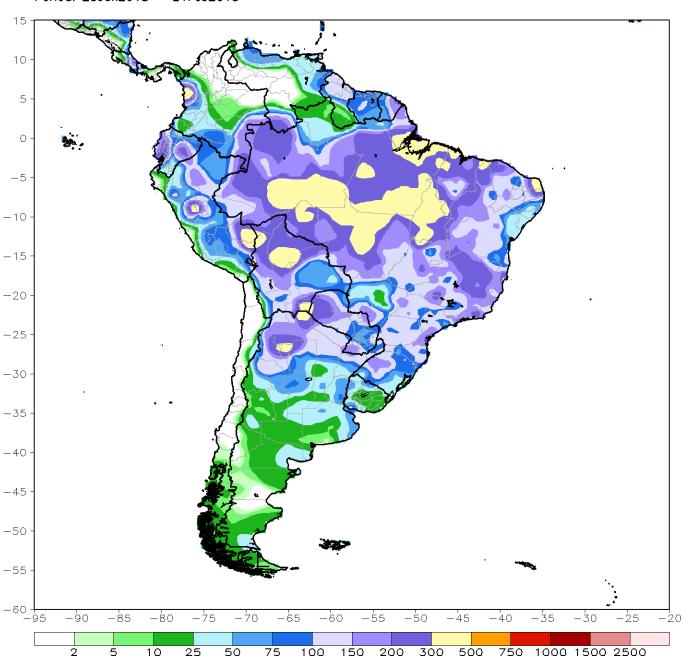


Servicio Meteorológico Nacional



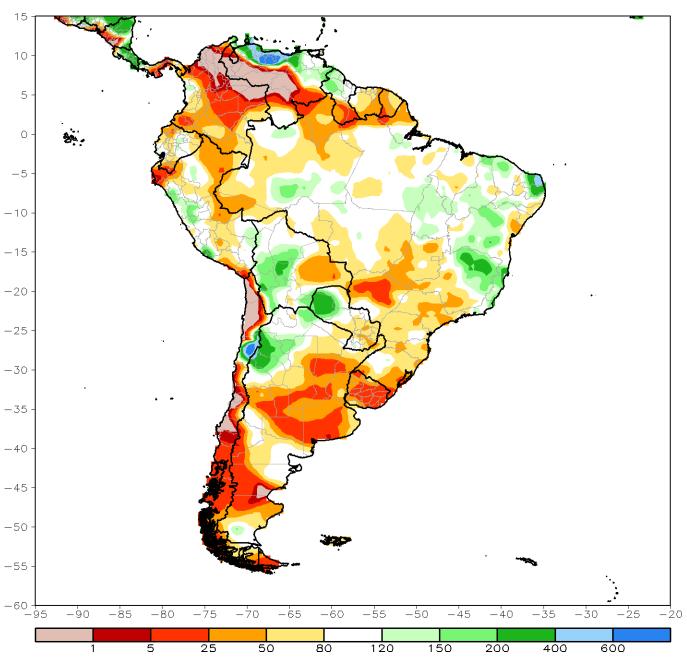
CPC Unified Gauge 30-Day Total Rainfall (mm)

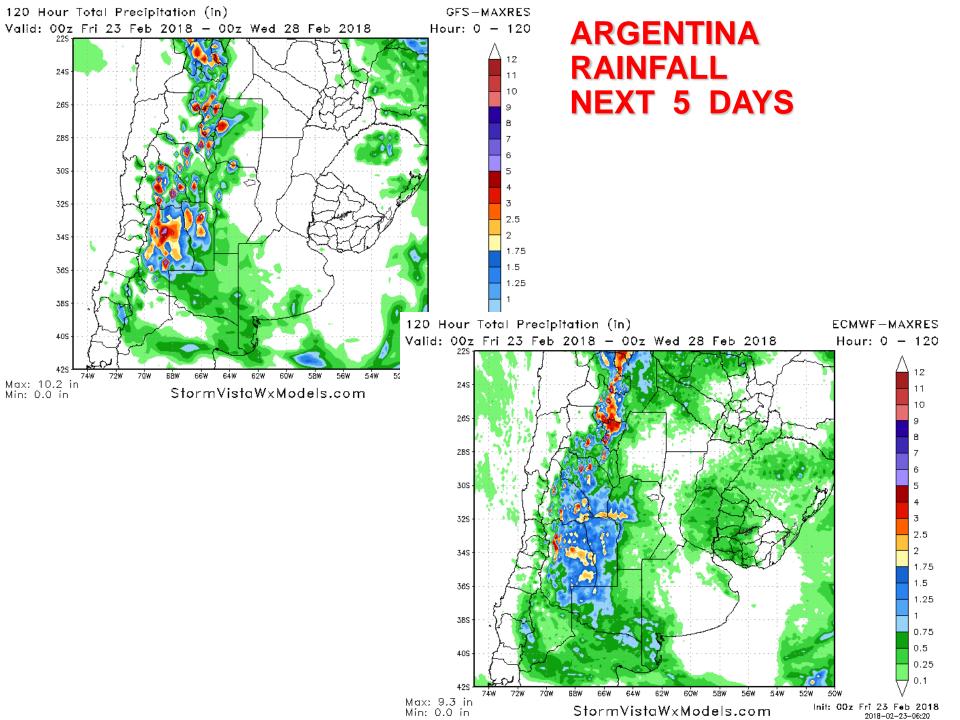
Period: 23Jan2018 - 21Feb2018

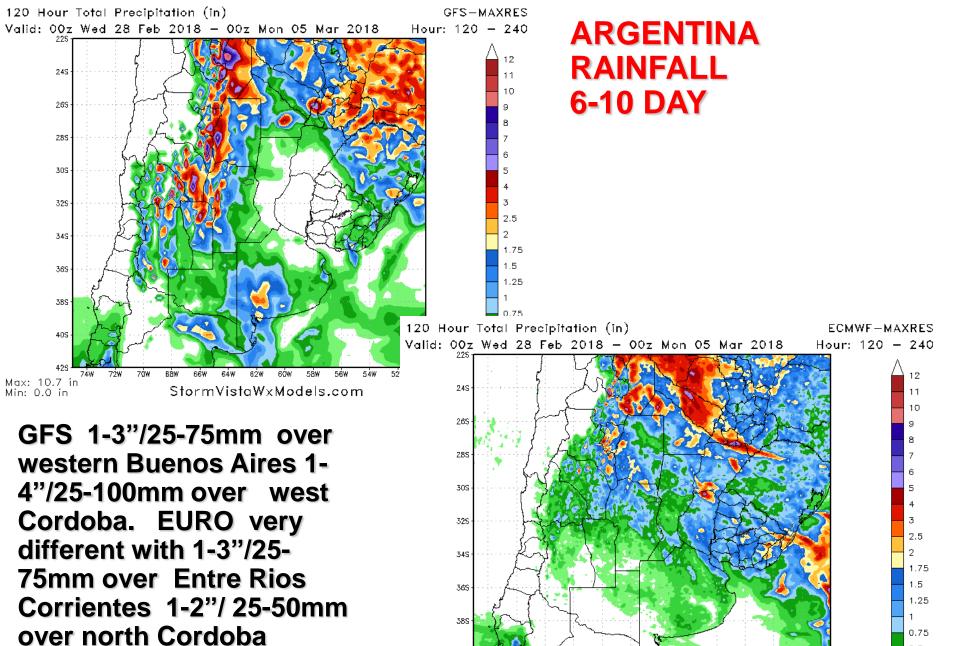


CPC Unified Gauge 30-Day Percent of Normal Rainfall (%)

Period: 23Jan2018 - 21Feb2018





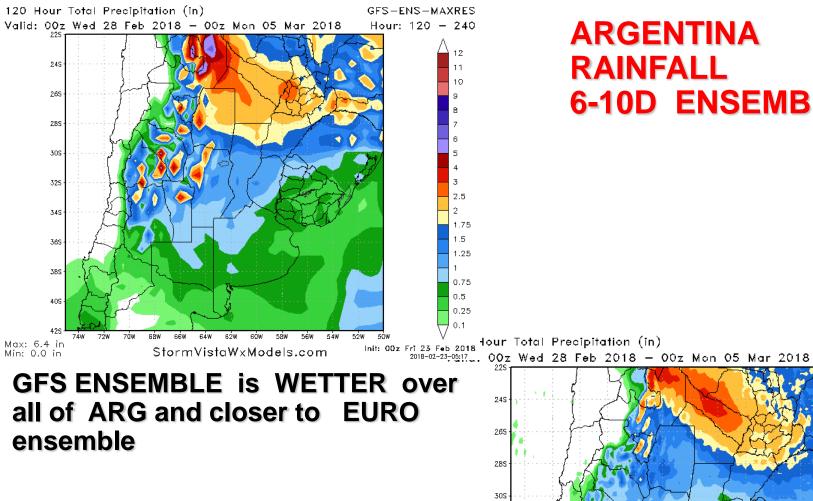


40S -

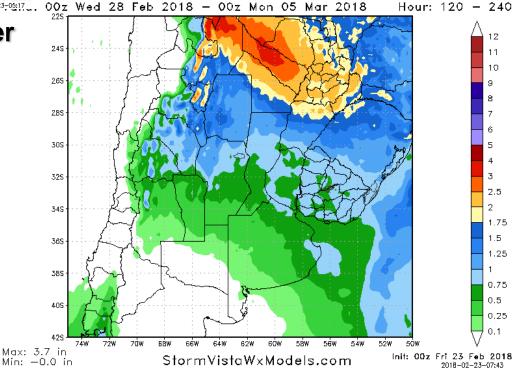
North Santa Fe

Max: 7.2 in Min: 0.0 in StormVistaWxModels.com Init: 00z Frī 23 Feb 2018

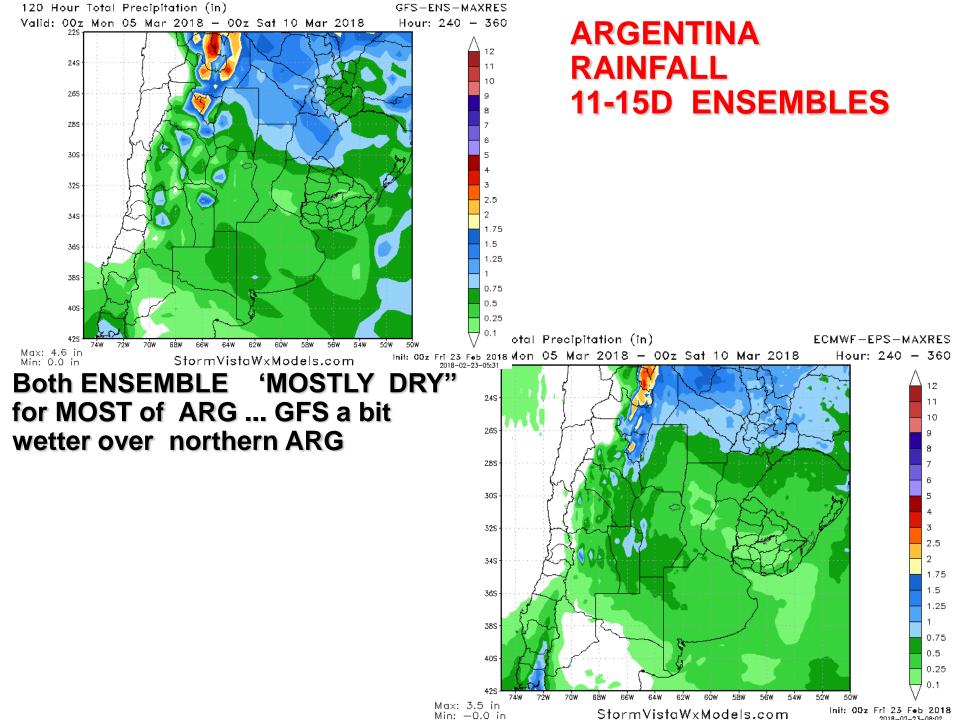
0.5

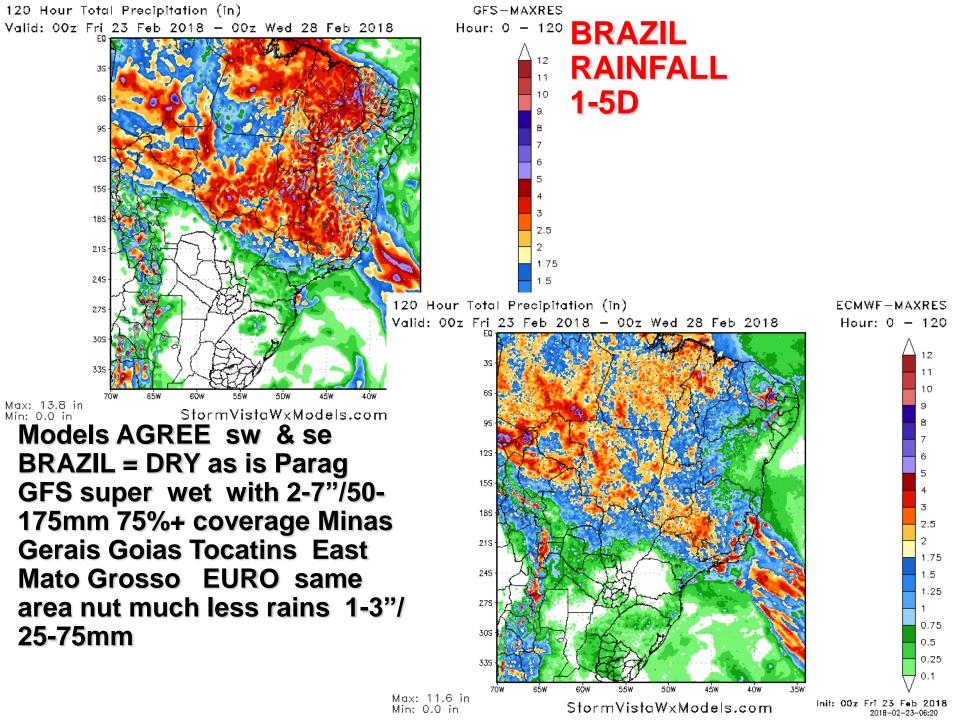


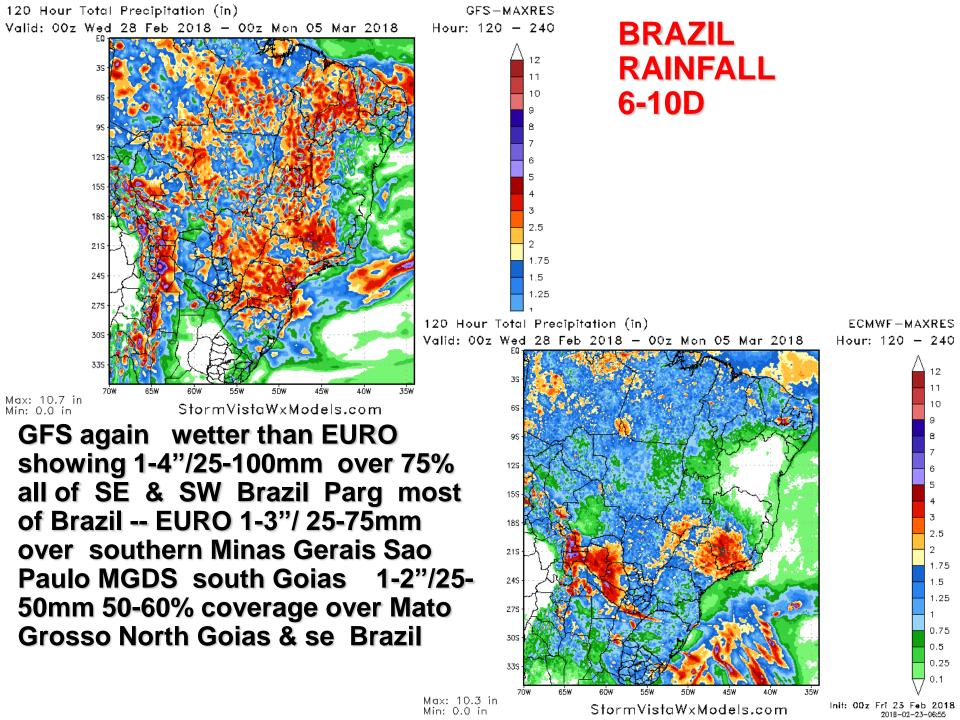
## 6-10D ENSEMBLES

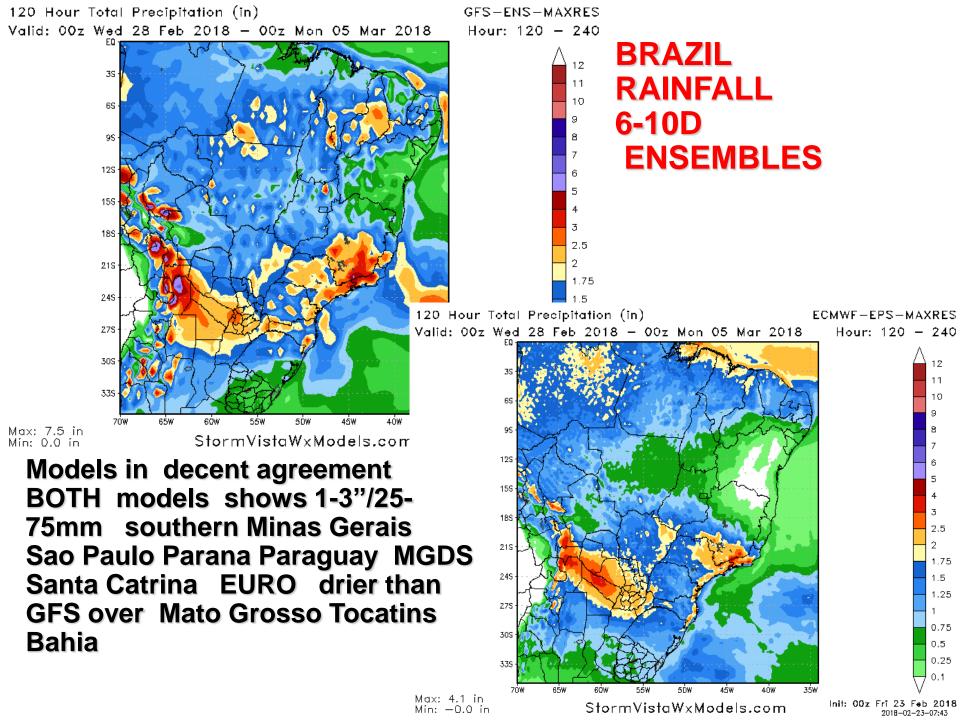


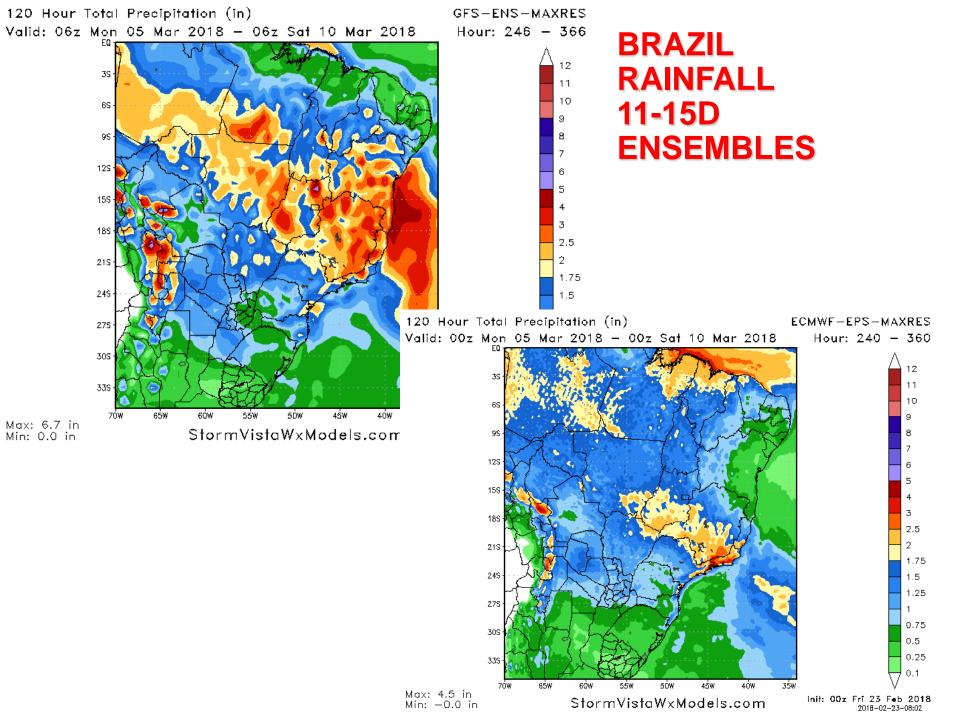
ECMWF-EPS-MAXRES



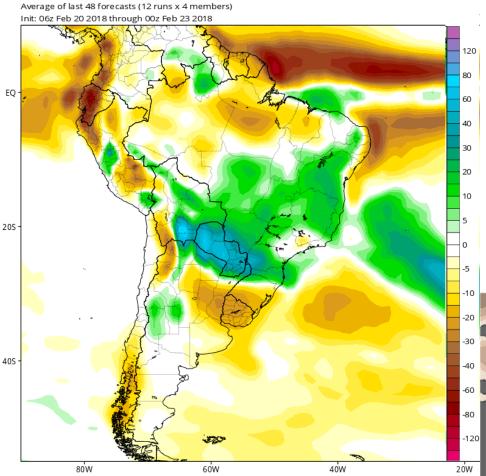




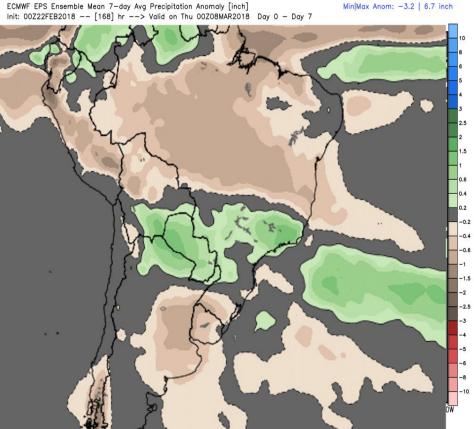




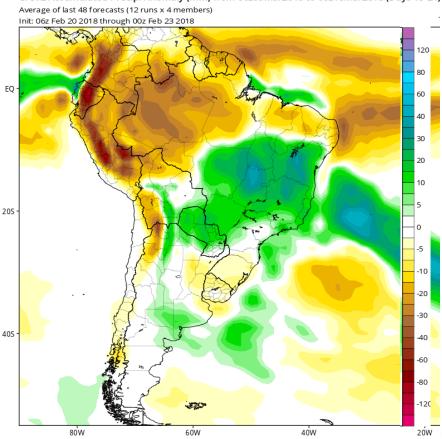
Cr3v2 Accumulated Frecip. Anomaly (IIIII) from 00202Mar2016 to 00209Mar2016 (Days 6-14)



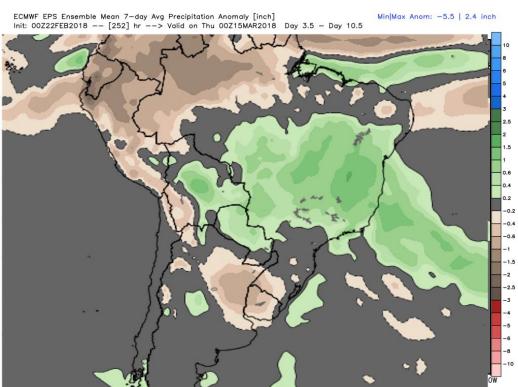
### WEEK 2 RAINFALL ANOMALIES



CFSv2 Accumulated Precip. Anomaly (mm) from 00z09Mar2018 to 00z16Mar2018 (Days 15-21)



### WEEK 3 RAINFALL ANOMALIES



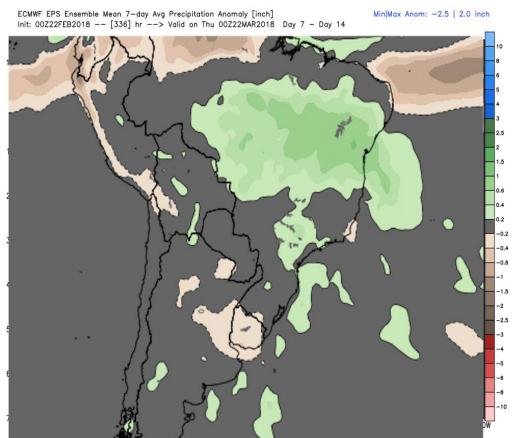
#### CFSv2 Accumulated Precip. Anomaly (mm) from 00z16Mar2018 to 00z23Mar2018 (Days 22-28) Average of last 48 forecasts (12 runs x 4 members) Init: 06z Feb 20 2018 through 00z Feb 23 2018 205 -20 40S -40 -60 -80

60W

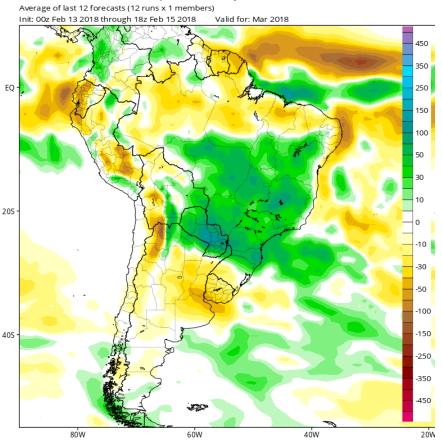
-120

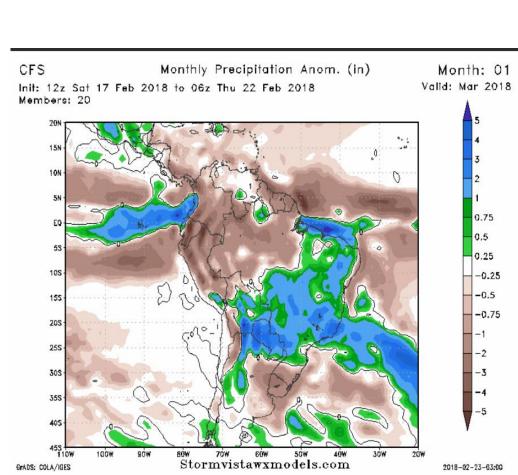
20W

# WEEK 4 RAINFALL ANOMALIES



#### CFSv2 Total Accumulated Precipitation Anomaly (mm)





CFS

Monthly Precipitation Anom. (in)

Month: 02 Valld: Apr 2018

Init: 12z Sat 17 Feb 2018 to 06z Thu 22 Feb 2018



