

US .. SOUTH AMERICA
AUSTRALIA
GRAIN WEATHER
ISSUES

as of FRIDAY
8 DECEMBER 2017



LOCATED in Richmond VA

Featured frequently on AGRI-MONEY

EMAIL WXRISK@VERZION .NET



@WXRISK.COM

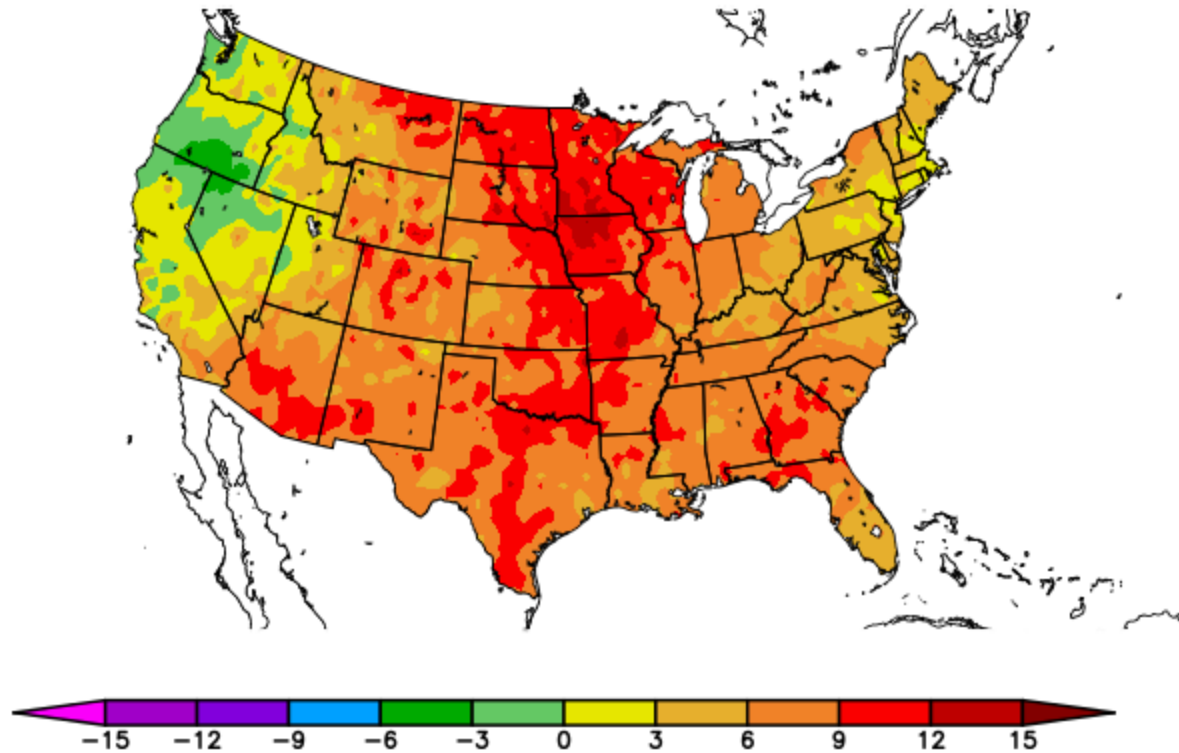


<https://www.facebook.com/WxRisk>

[wxrisk@gmail. com](mailto:wxrisk@gmail.com)

US TEMP ANOMALIES LAST 7 DAYS

Departure from Normal Temperature (F)
11/30/2017 – 12/6/2017



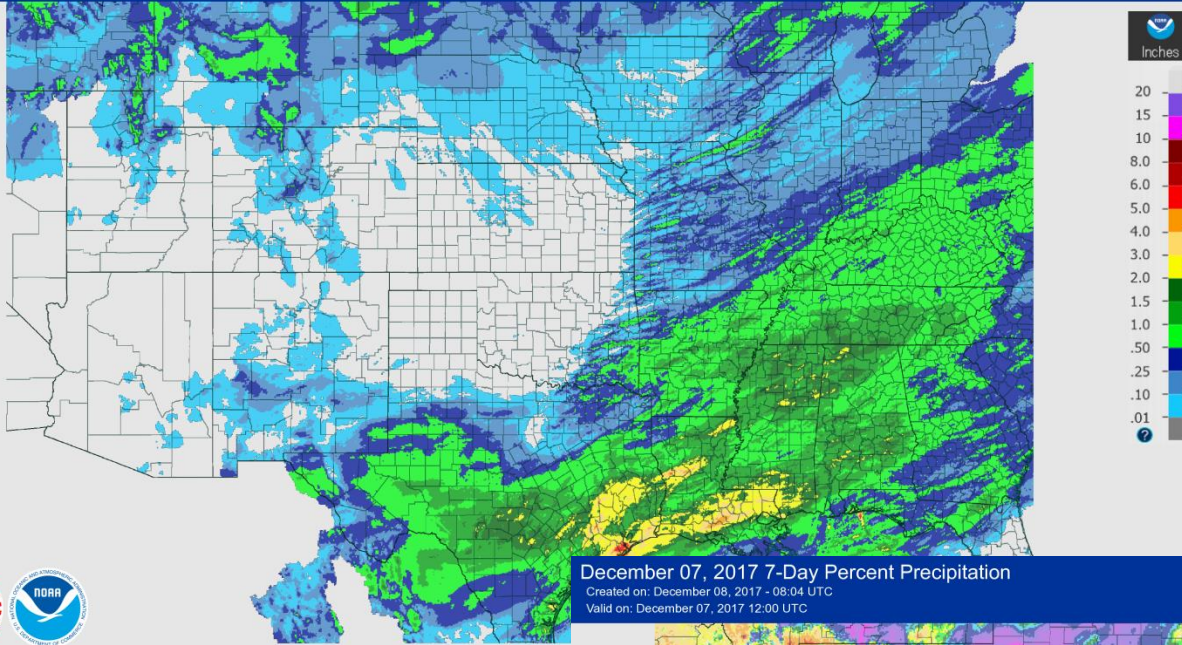
Generated 12/7/2017 at HPRCC using provisional data.

NOAA Regional Climate Centers

RAINFALL PAST 7 DAYS—

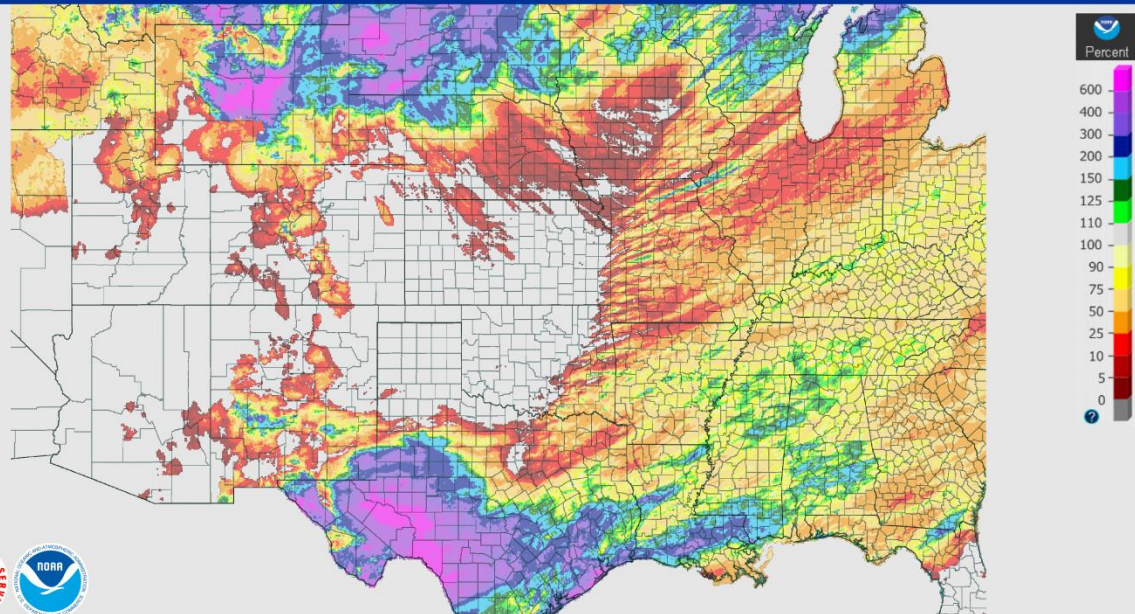
December 07, 2017 7-Day Observed Precipitation

Created on: December 08, 2017 - 08:02 UTC
Valid on: December 07, 2017 12:00 UTC

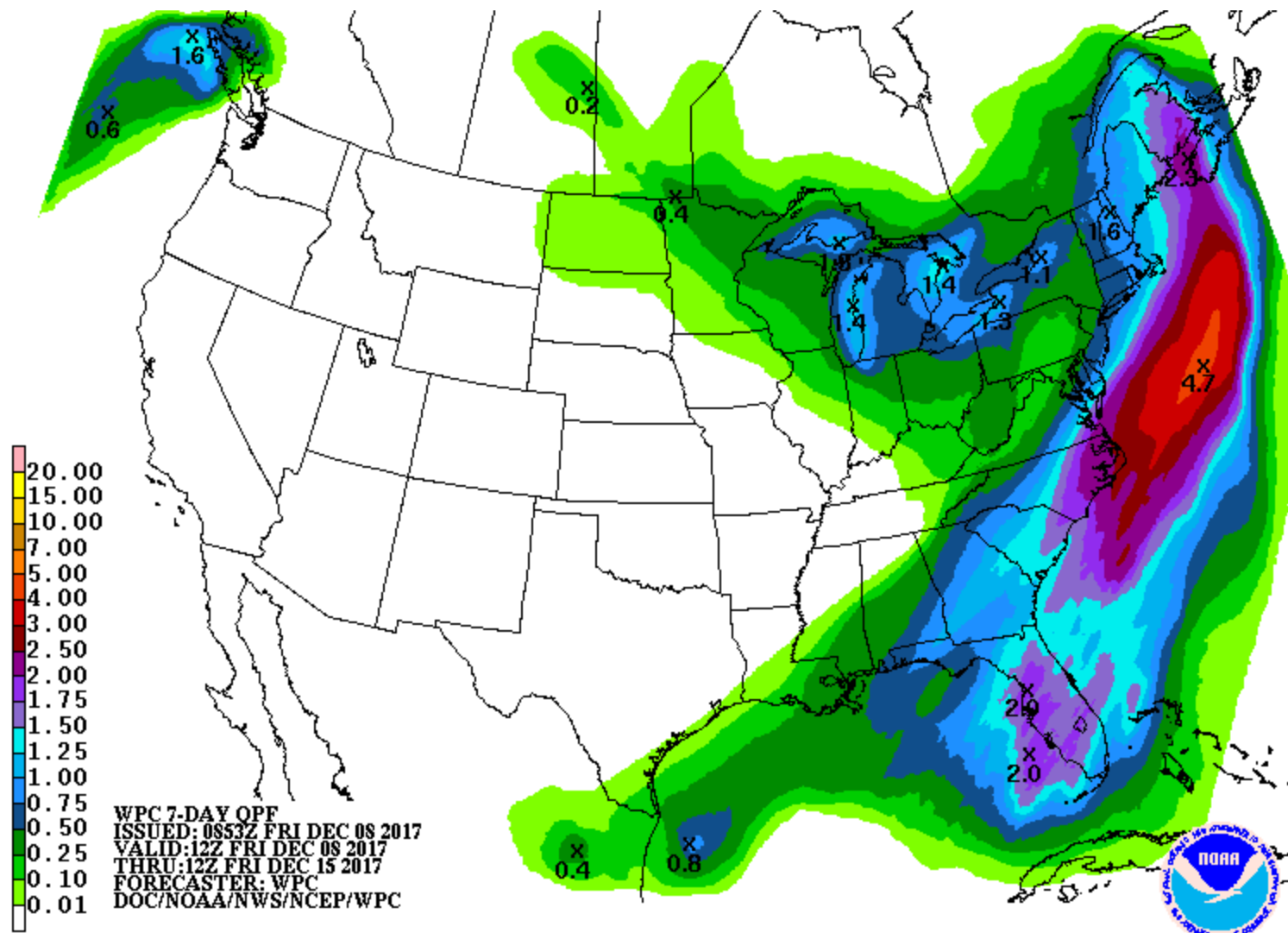


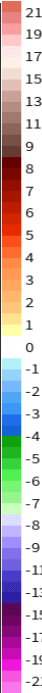
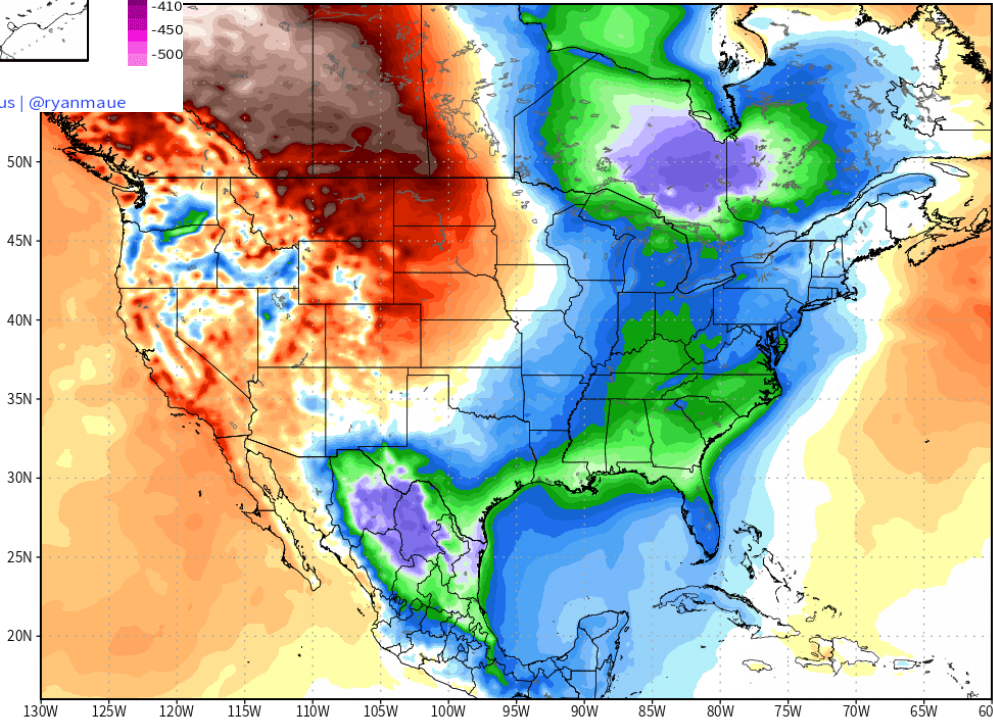
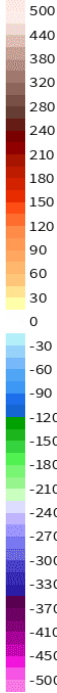
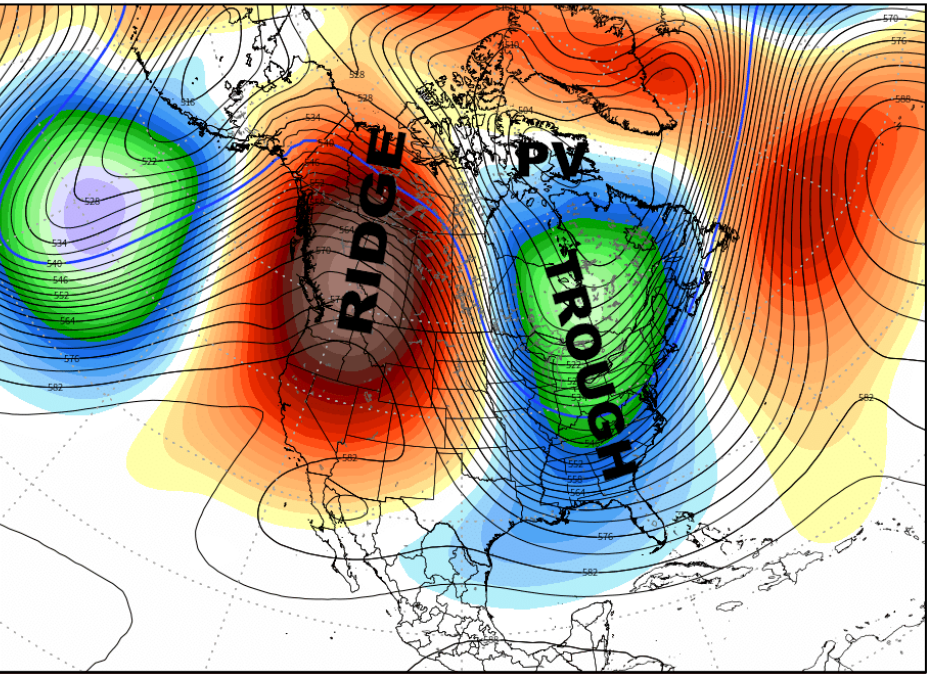
December 07, 2017 7-Day Percent Precipitation

Created on: December 08, 2017 - 08:04 UTC
Valid on: December 07, 2017 12:00 UTC

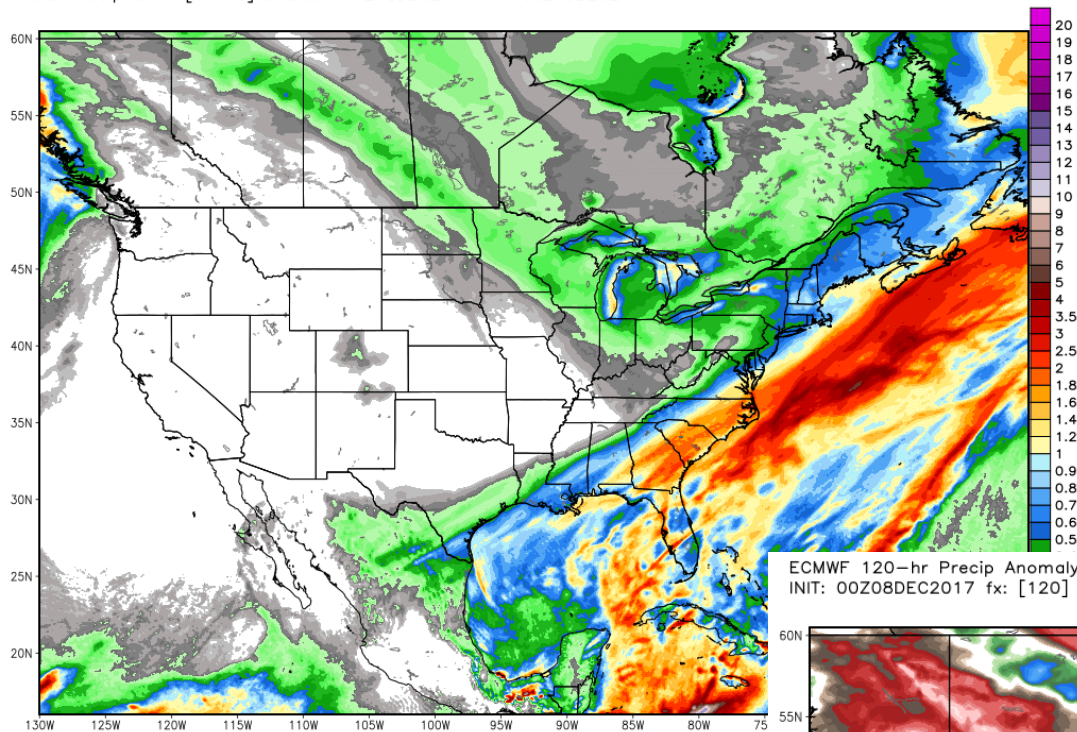


NWS OFFICIAL RAINFALL NEXT 7 DAYS





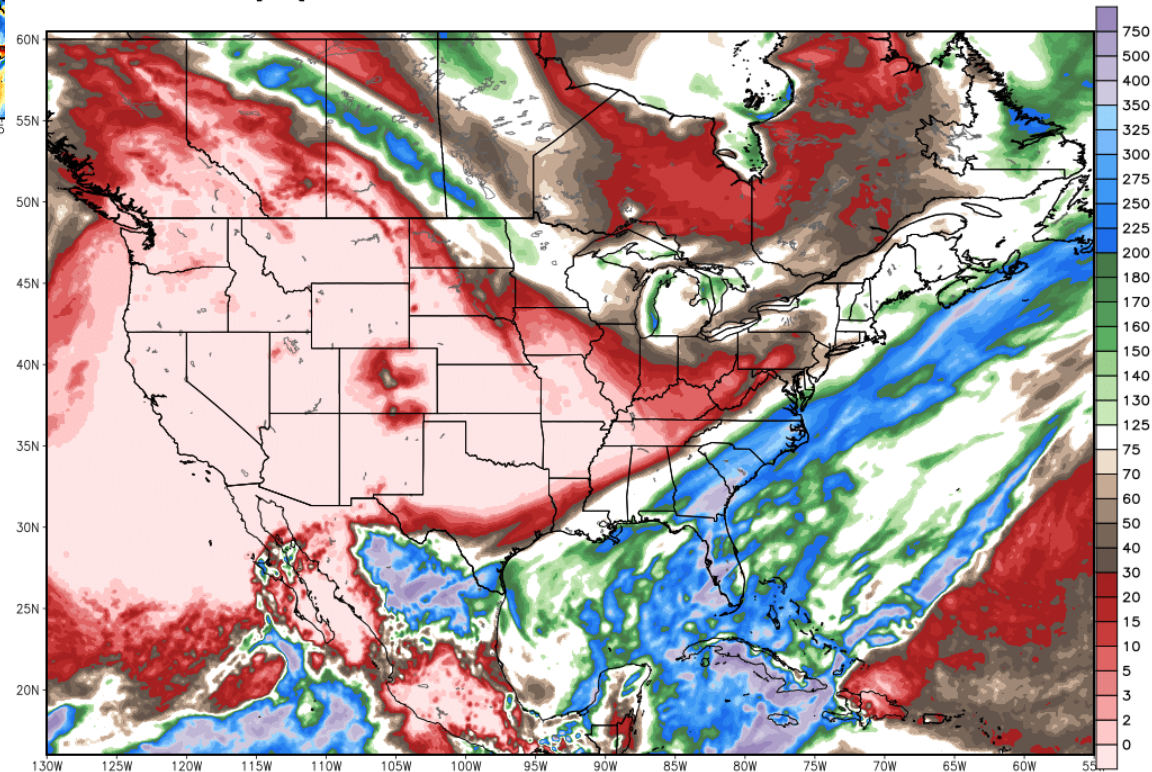
ECMWF 120-hrly Precipitation [inches] INIT: 00Z08DEC2017 fx: [120] hr --> Wed 00Z13DEC2017



EURO RAINFALL NEXT 5 DAYS

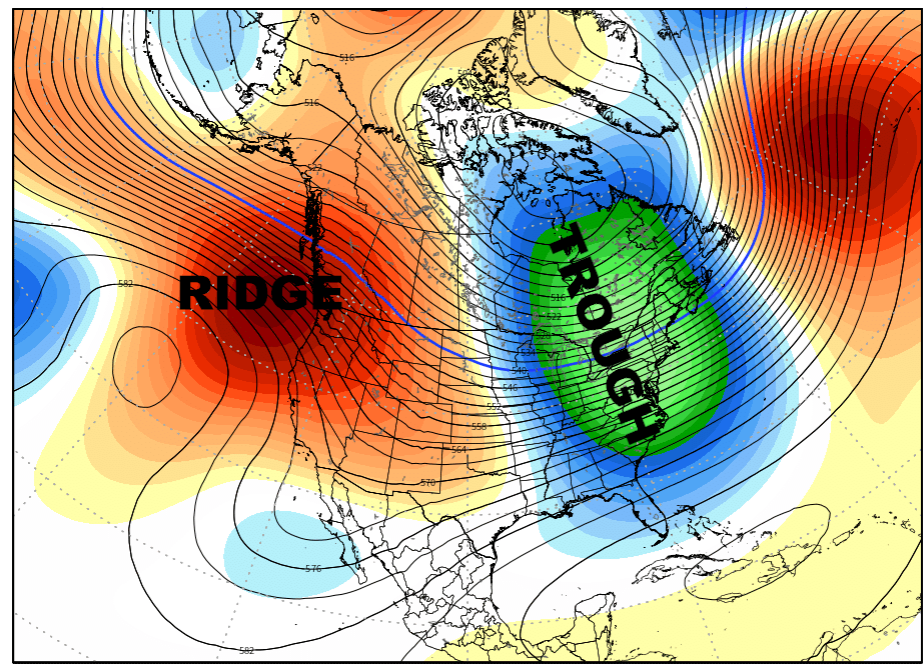
ECMWF 120-hr Precip Anomaly [% of normal] between 00Z08DEC2017 -- 00Z13DEC2017
INIT: 00Z08DEC2017 fx: [120] hr --> Wed 00Z13DEC2017

RAINFALL ANOMALIES NEXT 5 DAYS

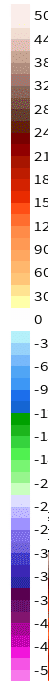


JET STREAM 6-10day

ECMWF EPS 500 hPa Geopotential Height [dm] & Anomaly [m] | 5-day Ensemble Mean 12Z12DEC2017 & 12Z17DEC2017 Day 5 - Day 10
Init: 12Z07DEC2017 -- [240] hr --> Valid Sun 12Z17DEC2017



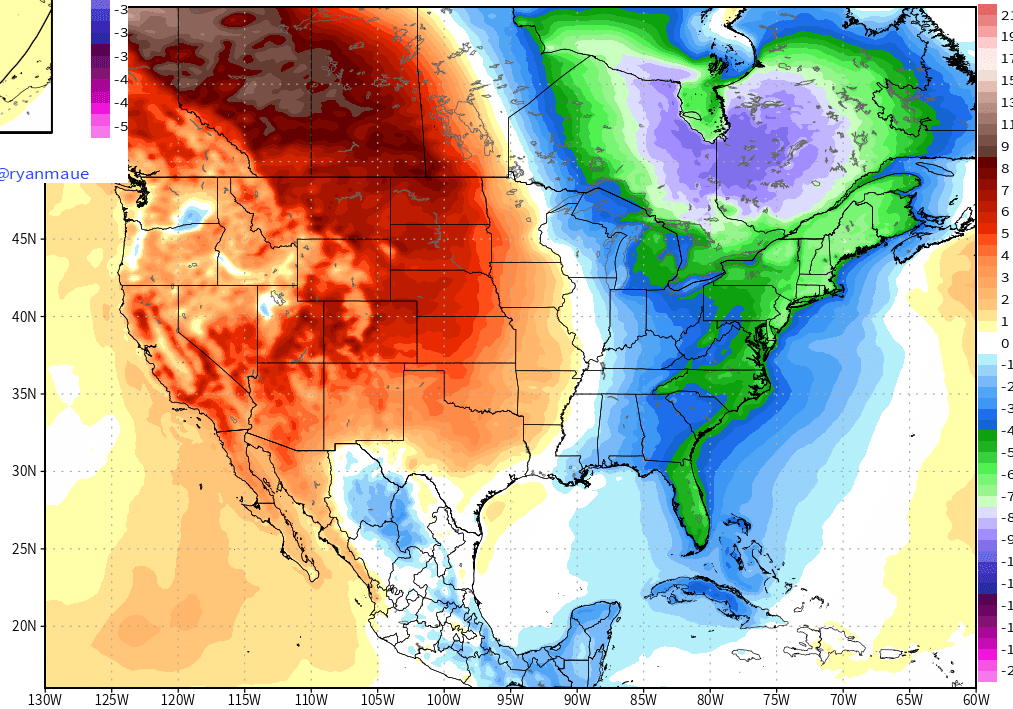
MIN|MAX: -209.2 | 233.1 m



This service is based on data and products of the European Centre for Medium-range Weather Forecasts (ECMWF)

weather.us | @ryanmaue

2-meter Temperature Anomaly [°C] | 5-day Ensemble Mean --> 00Z13DEC2017 & 00Z18DEC2017 Day 5.5 - Day 10.5
Init: 00Z07DEC2017 -- [252] hr --> Valid Mon 00Z18DEC2017

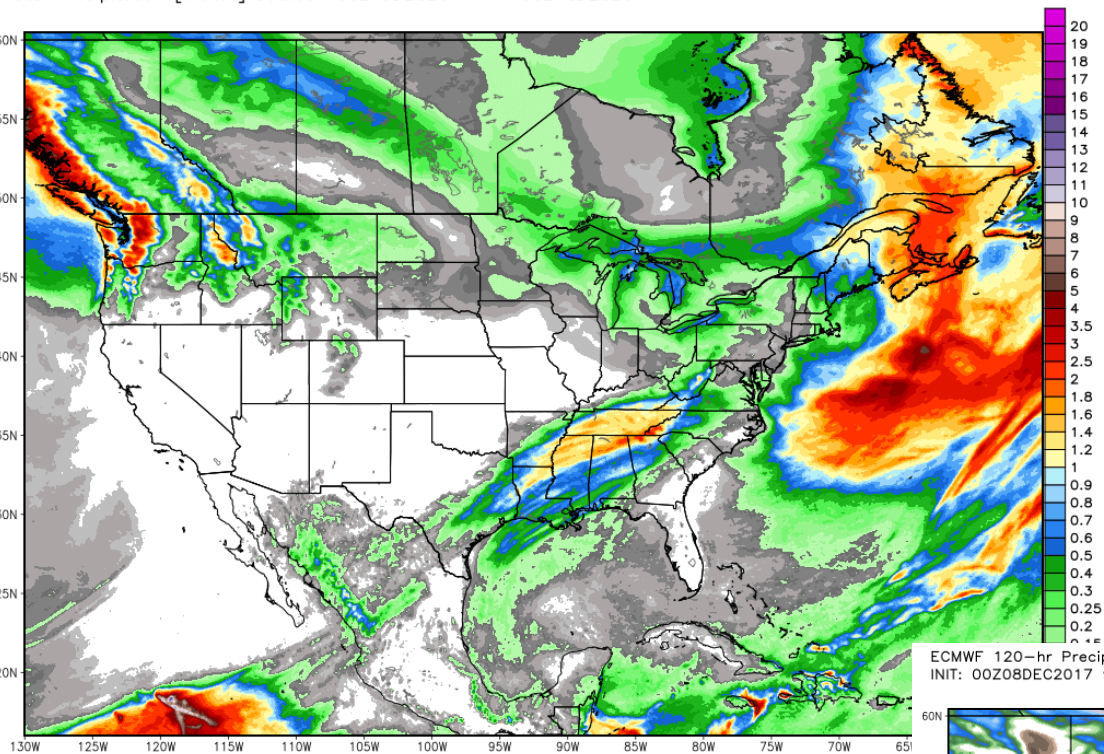


MIN|MAX -9.8° | 13.4°C

This service is based on data and products of the European Centre for Medium-range Weather Forecasts (ECMWF)

weather.us | @ryanmaue

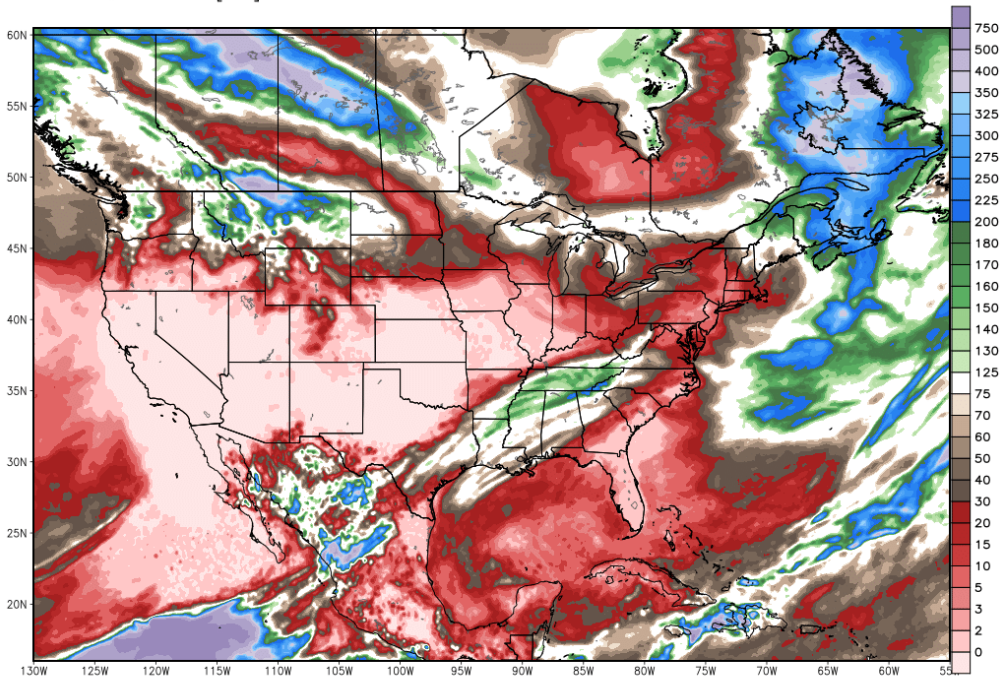
ECMWF 120-hourly Precipitation [inch] INIT: 00Z08DEC2017 fx: [240] hr --> Mon 00Z18DEC2017
Total Precipitation [inches] between 00Z13DEC2017 -- 00Z18DEC2017

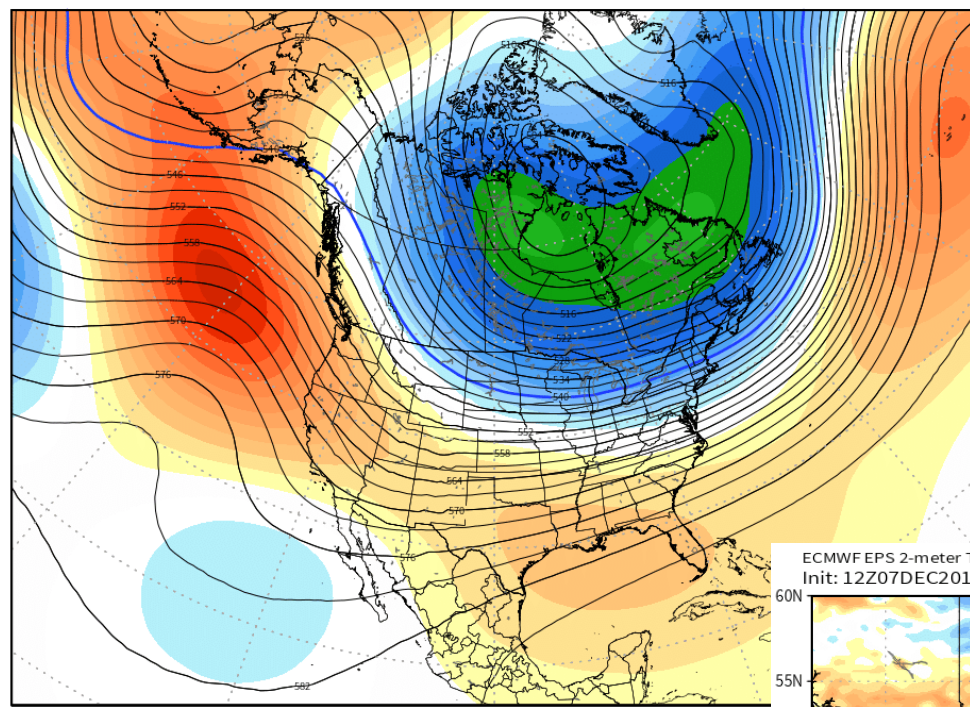


EURO RAINFALL 6-10DAY

ECMWF 120-hr Precip Anomaly [% of normal] between 00Z13DEC2017 -- 00Z18DEC2017
INIT: 00Z08DEC2017 fx: [240] hr --> Mon 00Z18DEC2017

RAINFALL ANOMALIES 6-10DAY

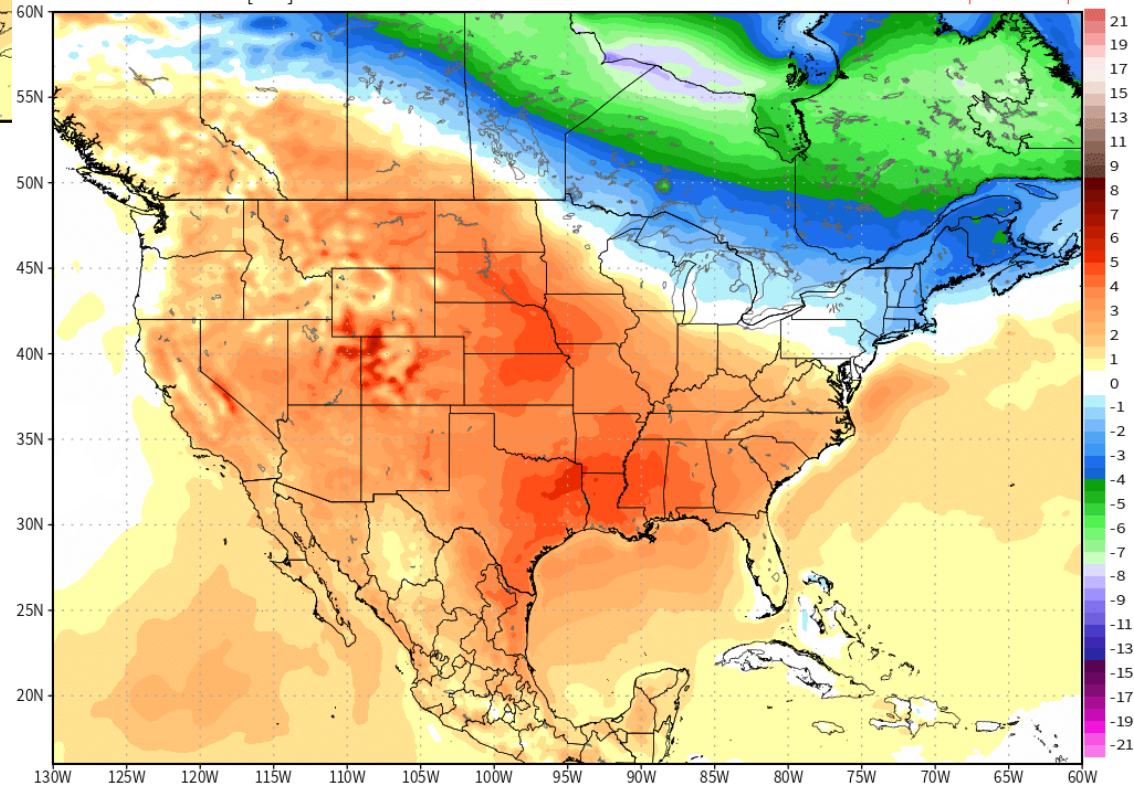




**11-15D – deep trough
over eastern US
weakens then comes
back**

This service is based on data and products of the European Centre for Medium-range Weather Forecasts (ECMWF)

**11-15D – TEMPS mild
over all of Plains and
Most of Midwest**

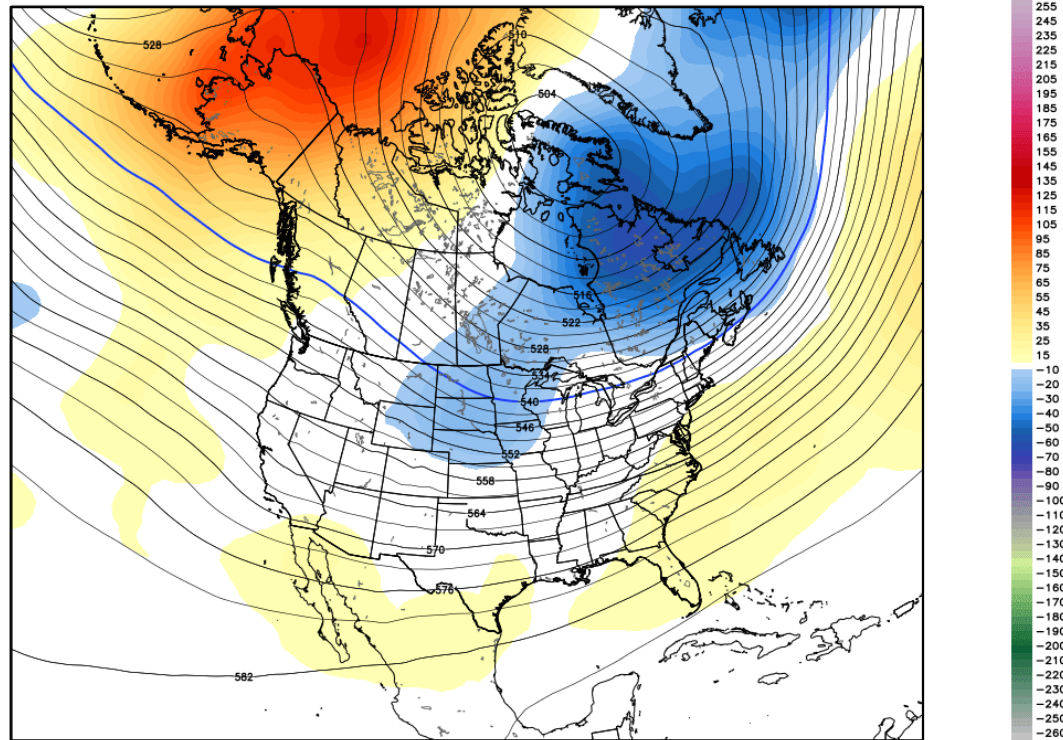


EURO WEEKLIES JET STREAM 14-21D -- broad shallow trough over Uper Plains Upper Midwest New England -- seasona; TEMPS but dry over Plains/ Midwest

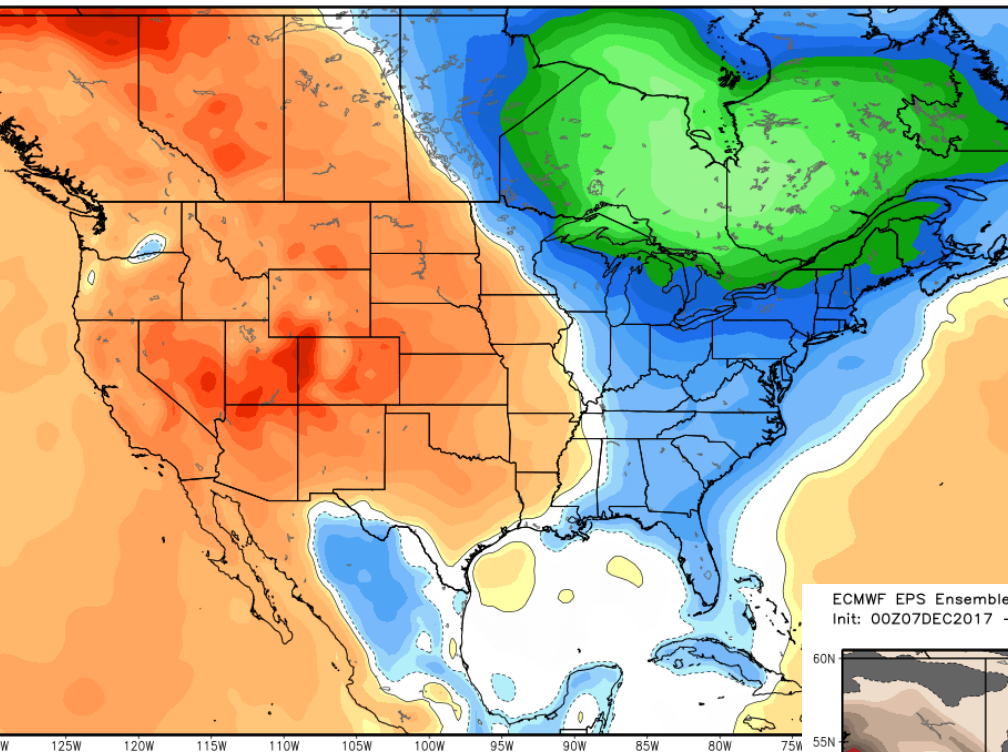
ECMWF EPS Monthly Ensemble Mean 500 hPa Geopotential Height [dm] & Anomaly [m]

INIT: 00Z07DEC2017 fx: [576] hr --> Sun 00Z31DEC2017

Min|Max: -61.5 | 125.8 m



00Z07DEC2017 -- [768] hr --> Valid on Mon 00Z08JAN2018 Day 0 - Day 32



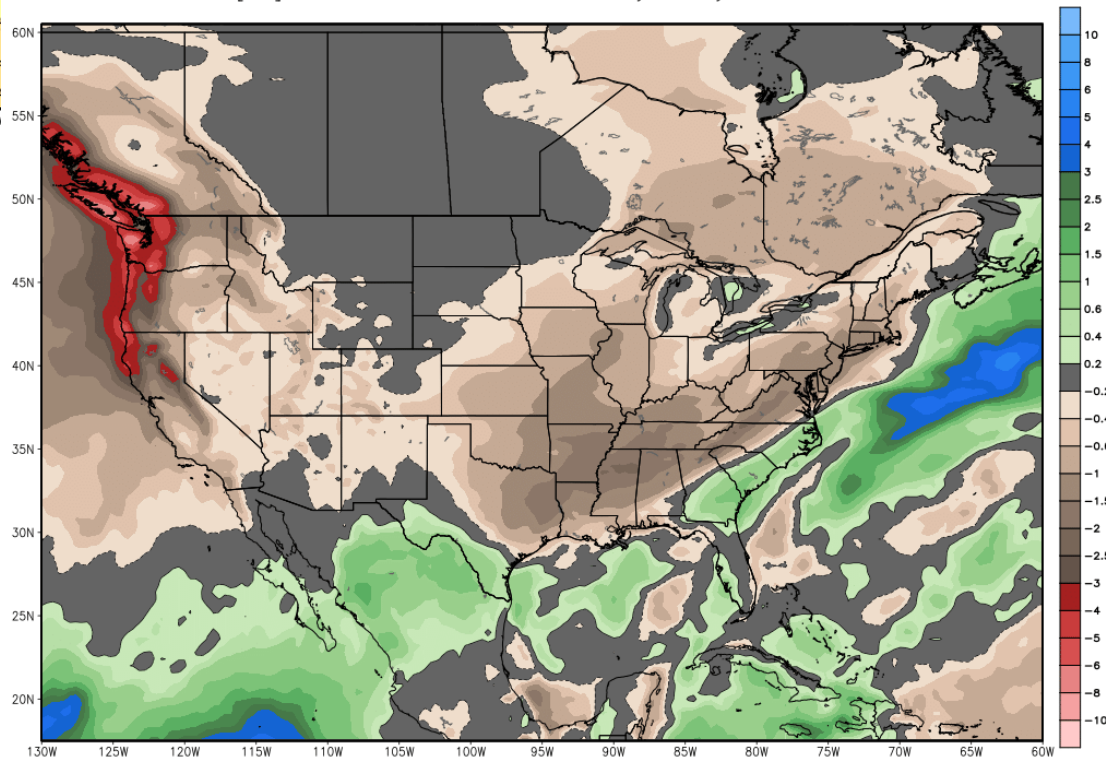
TEMP ANOMALIES TO JAN 8

ECMWF EPS Ensemble Mean 32-day Avg Precipitation Anomaly [inch]
Init: 00Z07DEC2017 -- [768] hr --> Valid on Mon 00Z08JAN2018 Day 0 - Day 32

Min|Max Anom: -8.3 | 5.9 inch

Average between 00Z07DEC2017-00Z08JAN2018 | ECMWF EPS 1996-2015 Hindcast Climatology

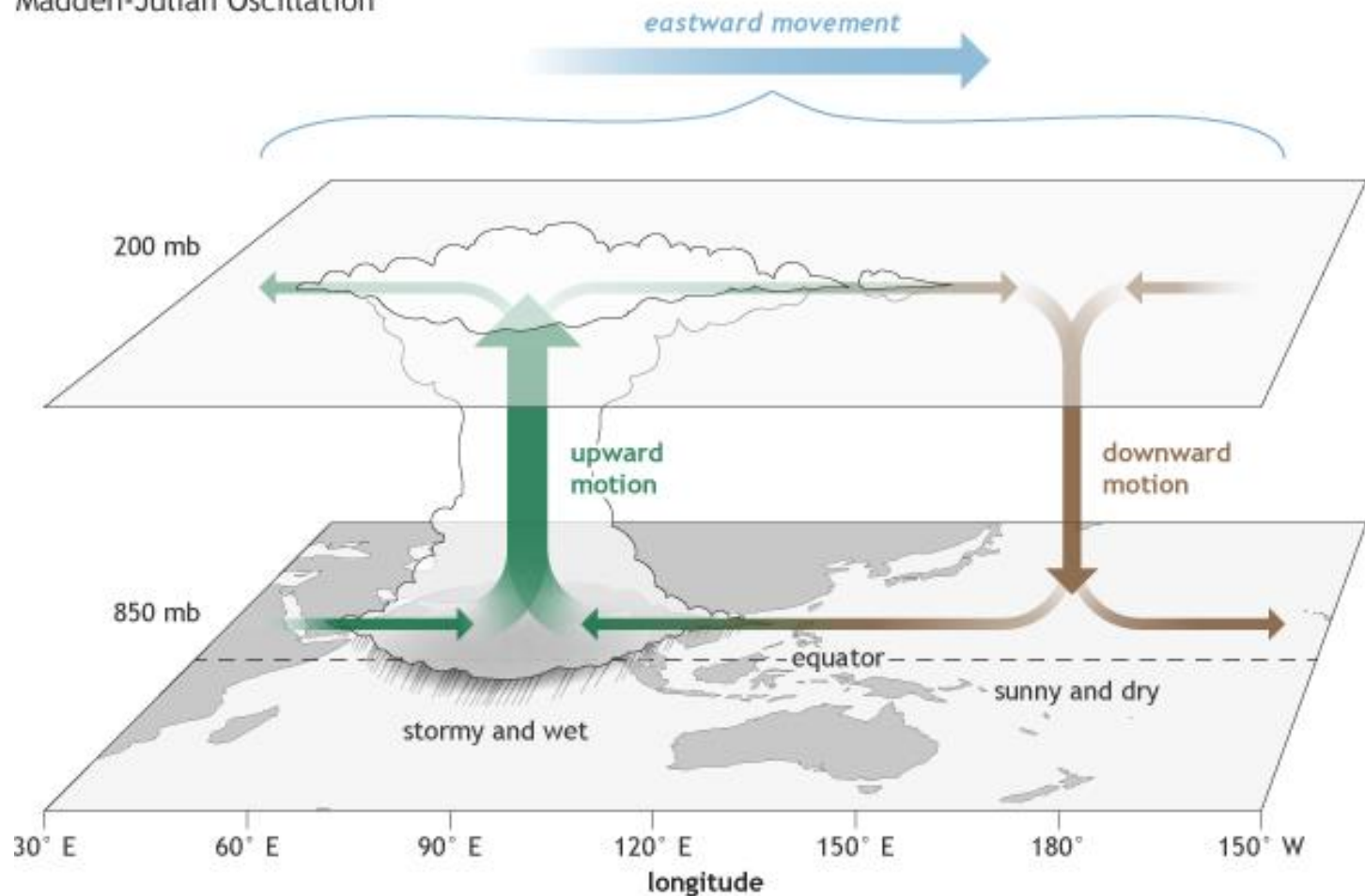
RAINFALL ANOMALIES TO JAN 8



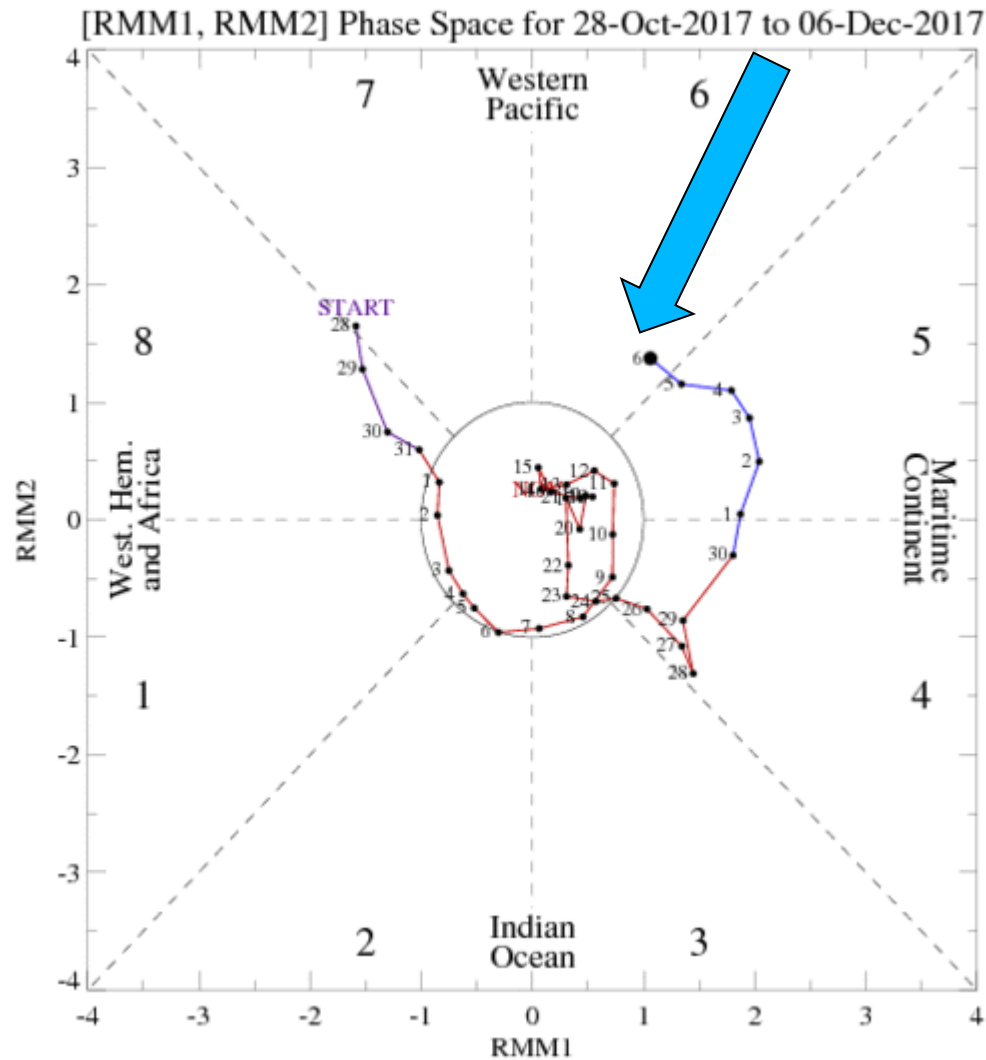
Accumulation between 00Z07DEC2017-00Z08JAN2018 | ECMWF EPS 1996-2015 Hindcast Climatology

LETS TALK MJO/ENSO

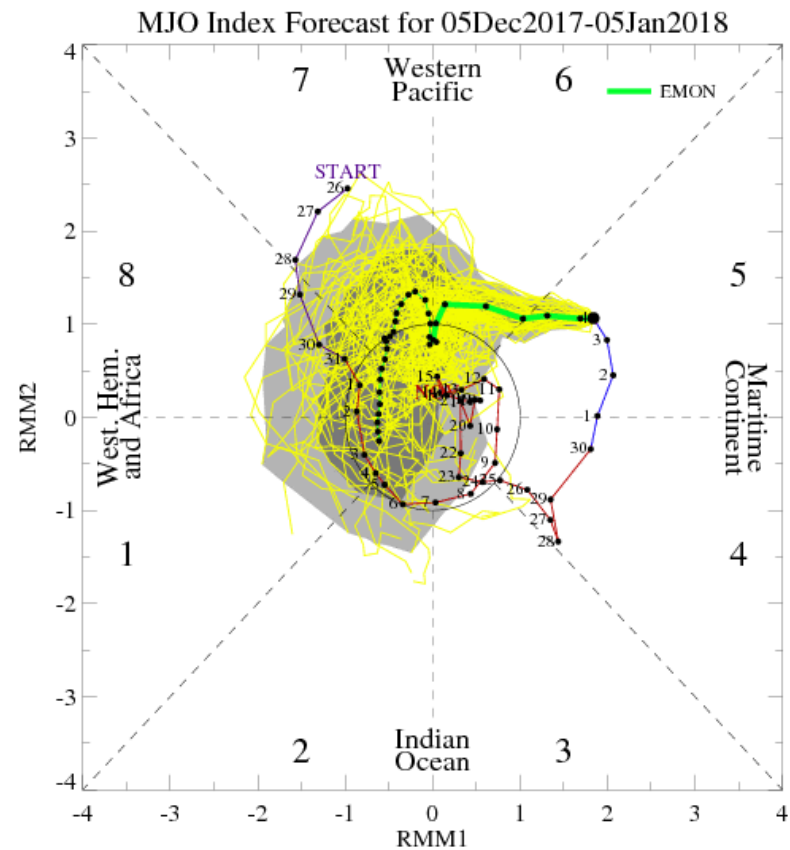
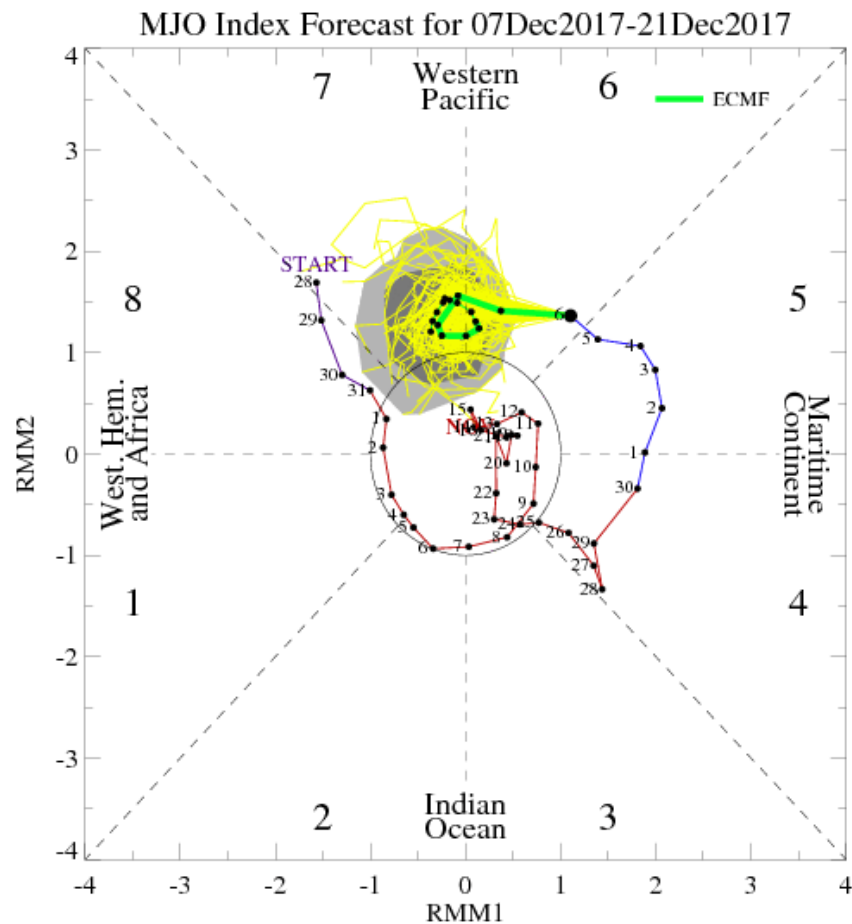
Madden-Julian Oscillation



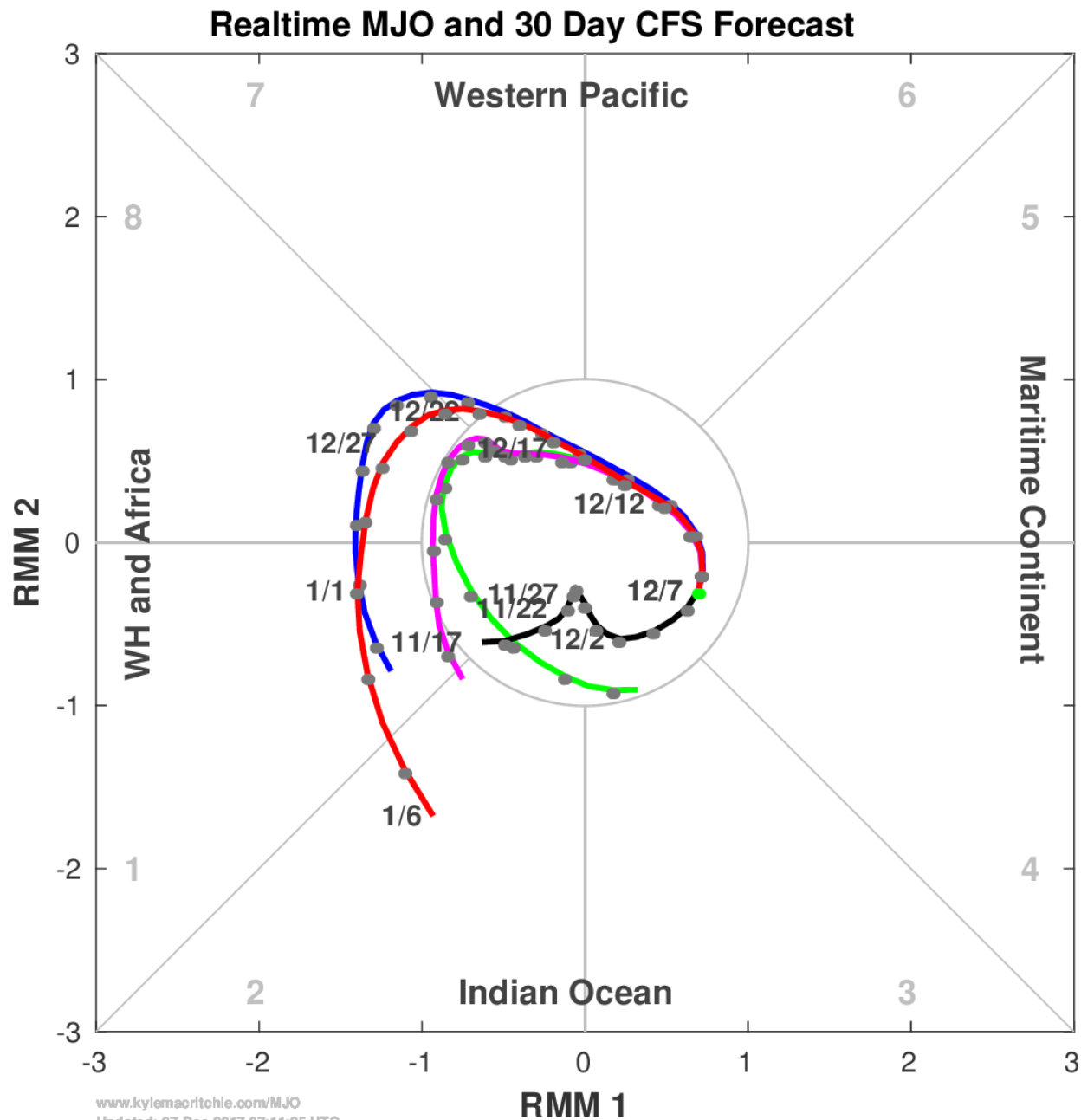
MJO IS IN PHASE 6



MJO PHASE 6 and 7 through DEC 25 THEN ????



EXPERIMENTAL MJO PHASE 8 AND 1 DEC 25 TO JAN 6

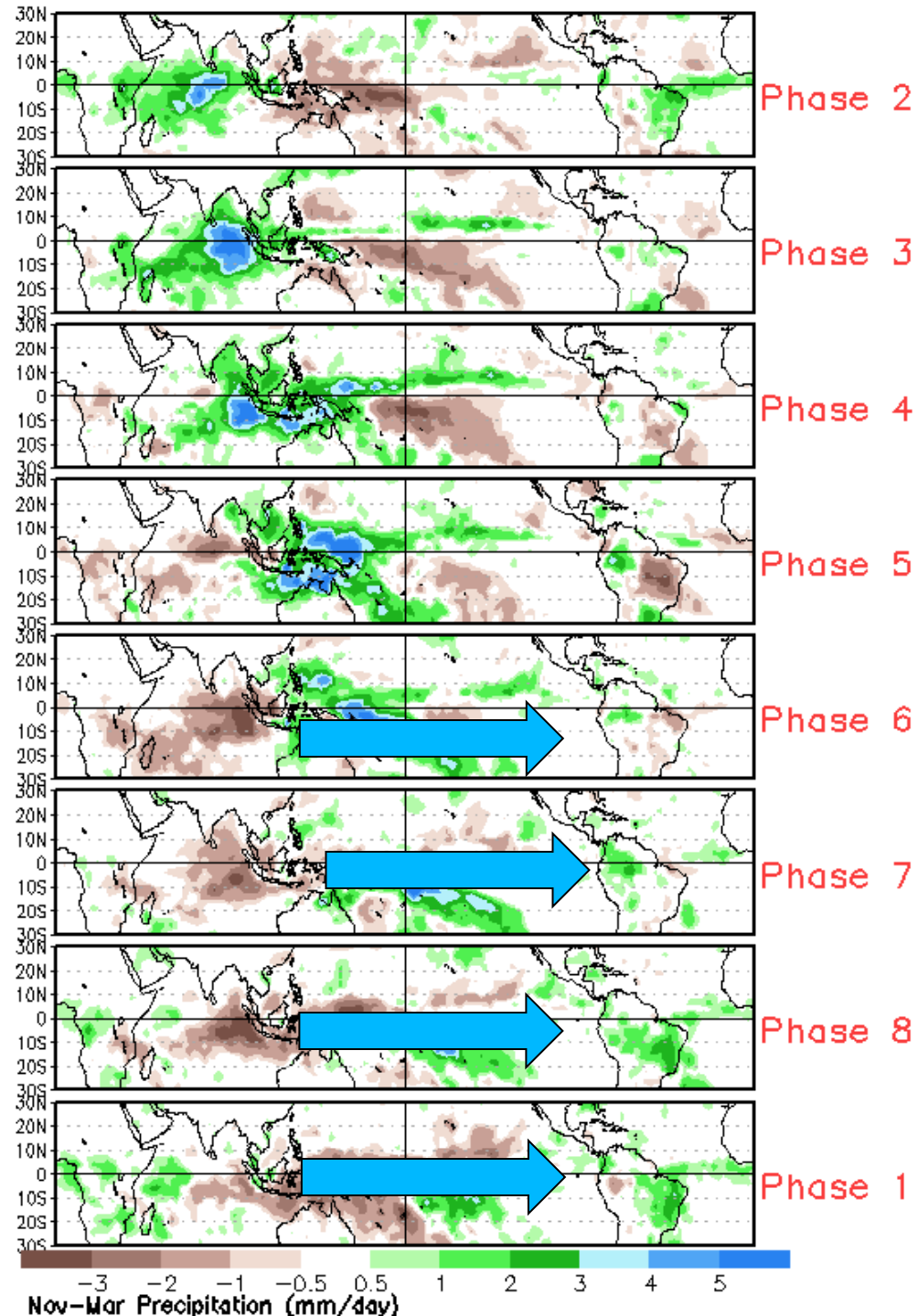


**PHASE 6 NEAR
NORMAL RAINS
BRAZIL STILL
WET OVER ARG**

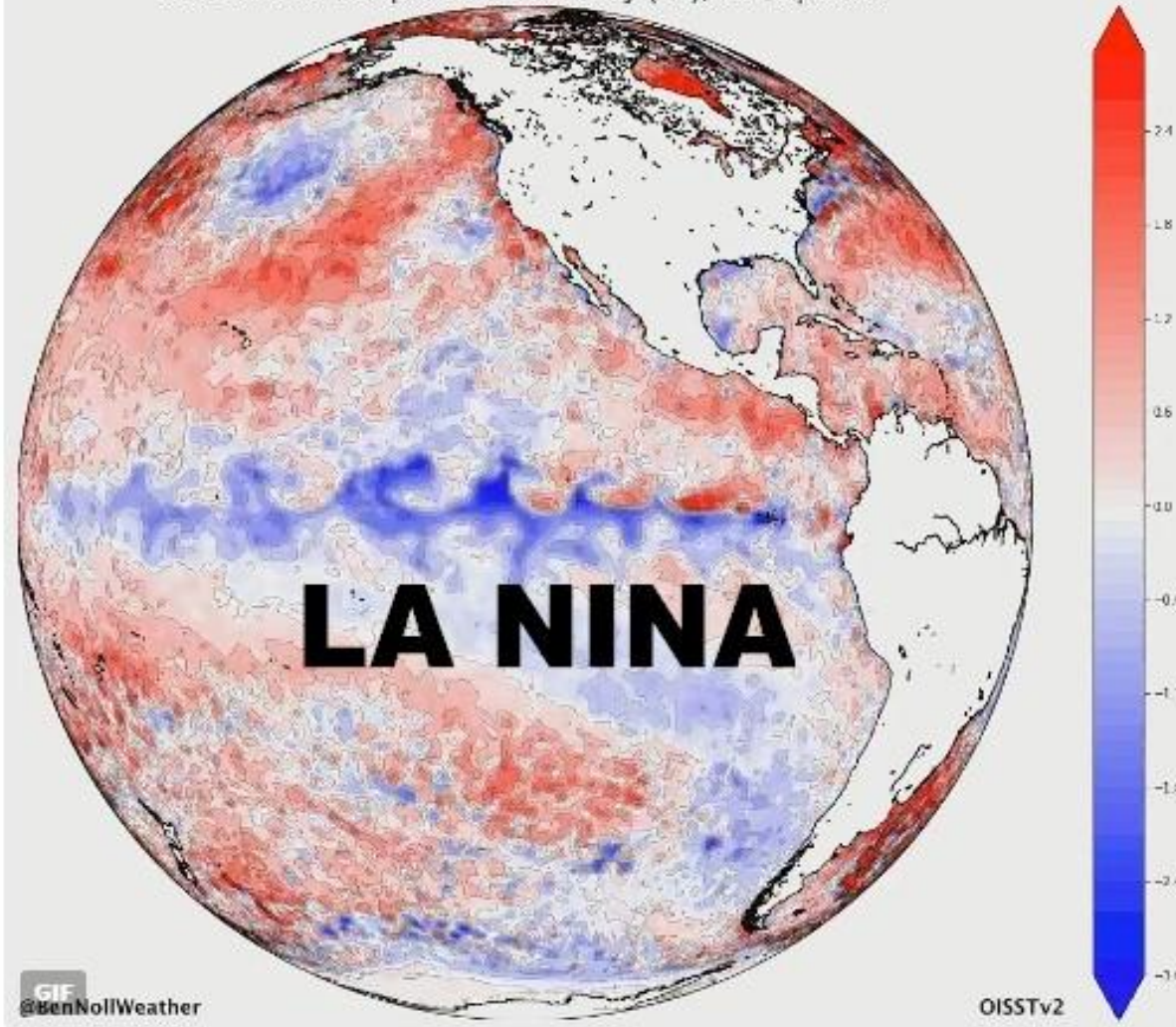
PHASE 7

PHASE 8 ?

PHASE 1 ?



Sea Surface Temperature Anomaly (°C), 10 Sep 2017



6:29 AM - 13 Sep 2017

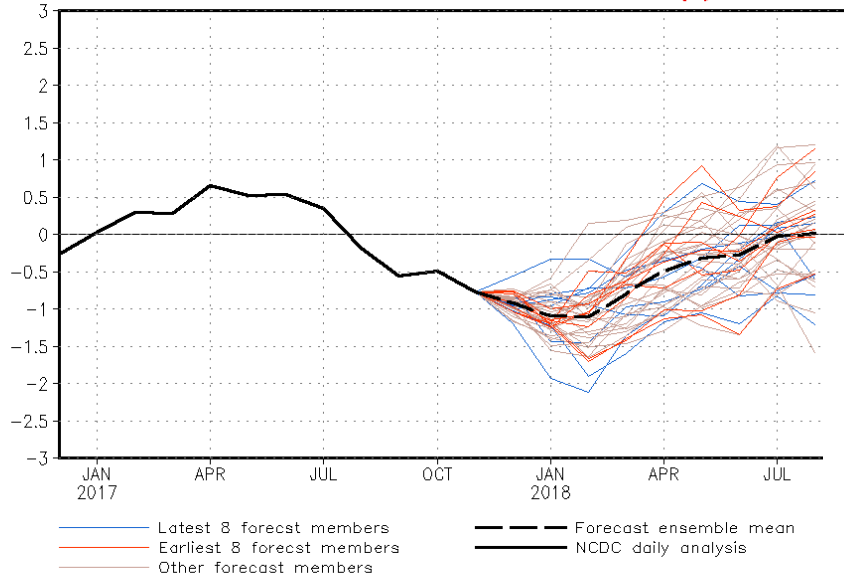
LATEST CFS MODEL PROJECTION = ** La Nina is WEAKER .. COMPARE DEC 1 TO DEC 8



NWS/NCEP/CPC

Last update: Fri Dec 1 2017
Initial conditions: 31Oct2017-9Nov2017

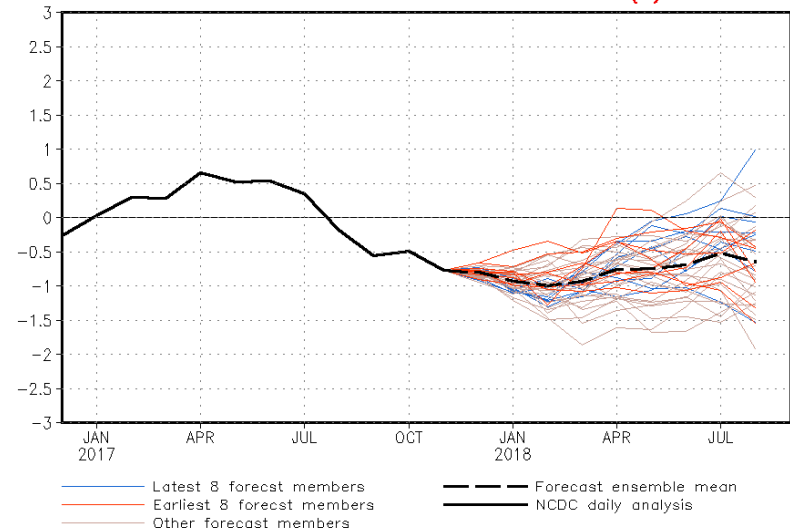
CFSv2 forecast Nino3.4 SST anomalies (K)



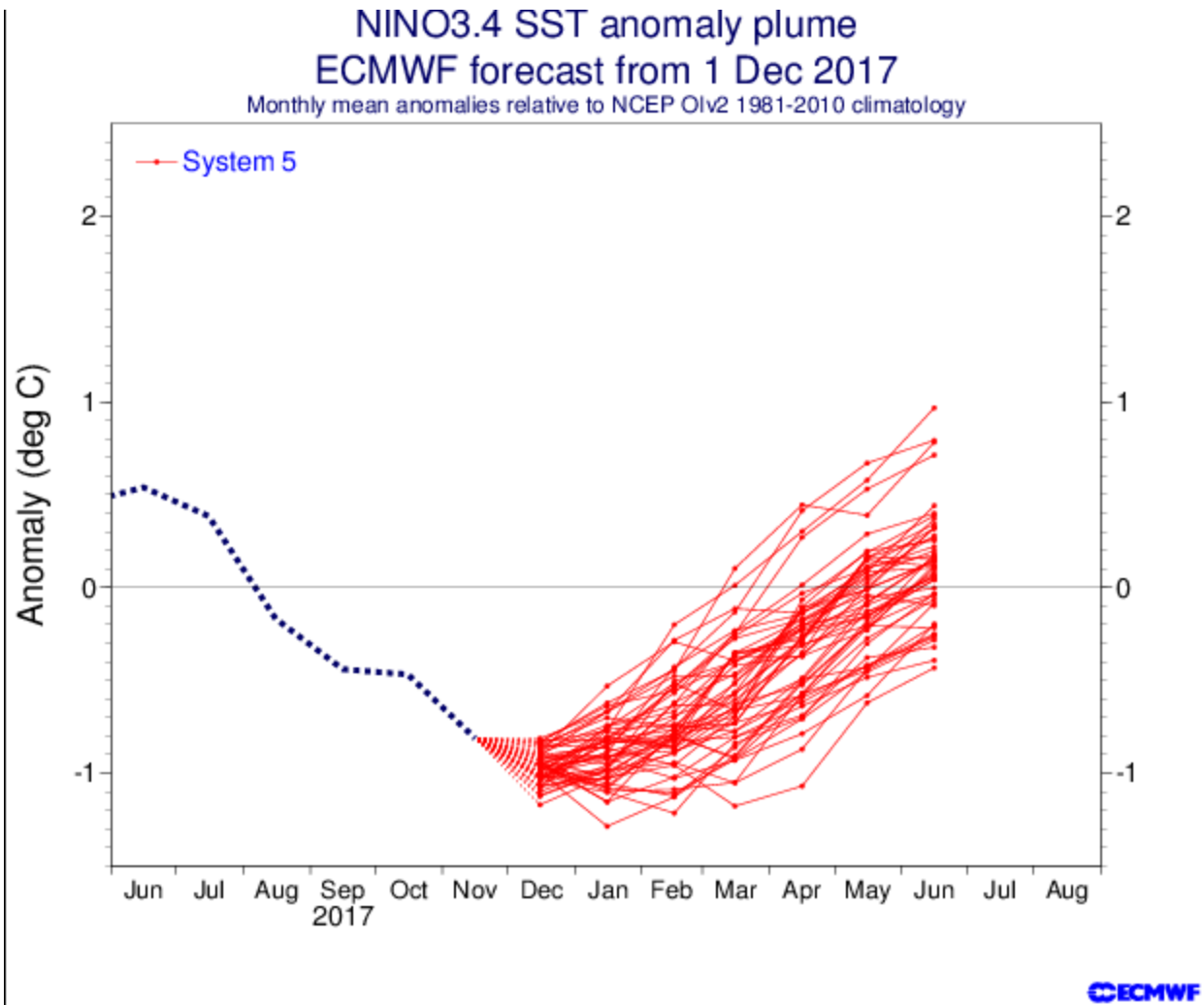
NWS/NCEP/CPC

Last update: Fri Dec 8 2017
Initial conditions: 27Nov2017-6Dec2017

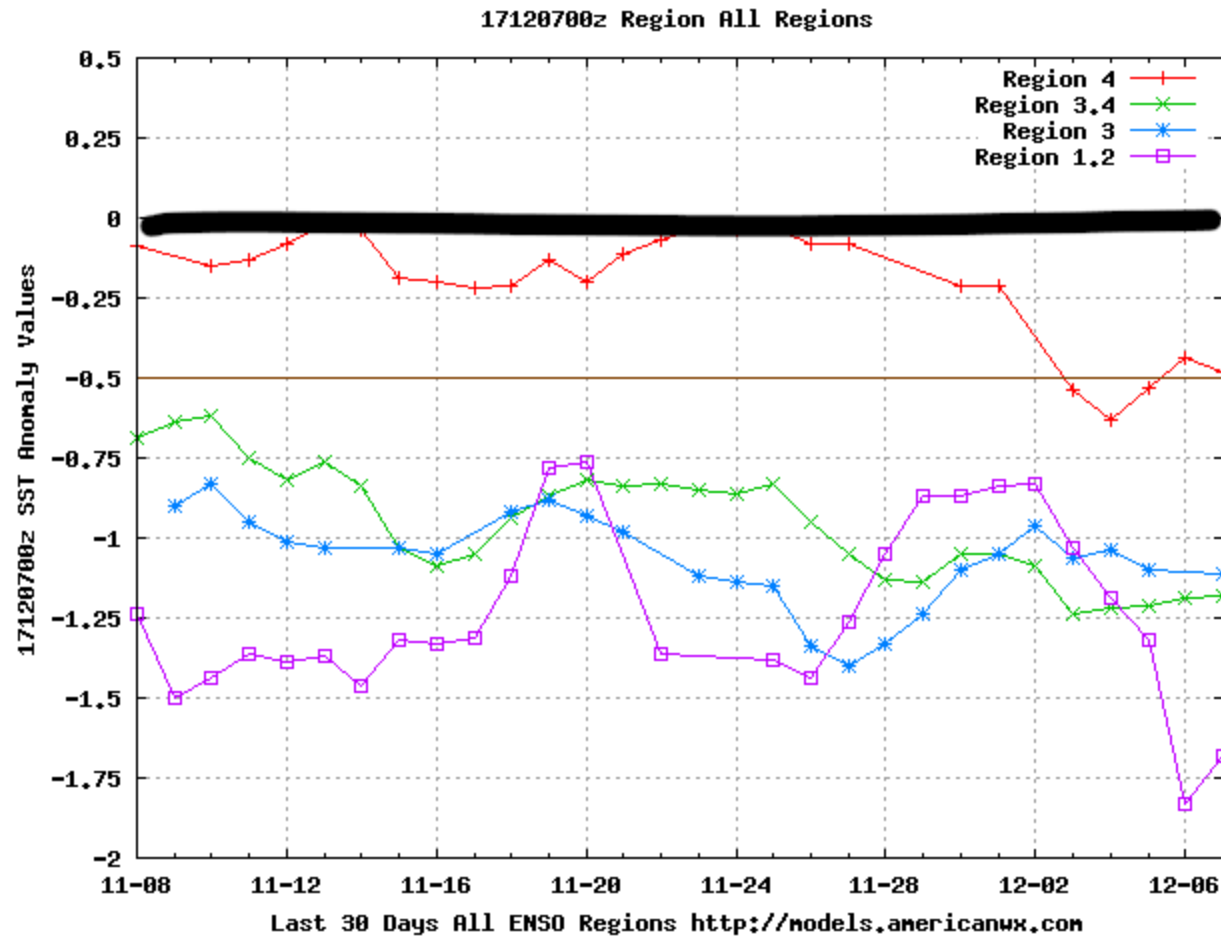
CFSv2 forecast Nino3.4 SST anomalies (K)



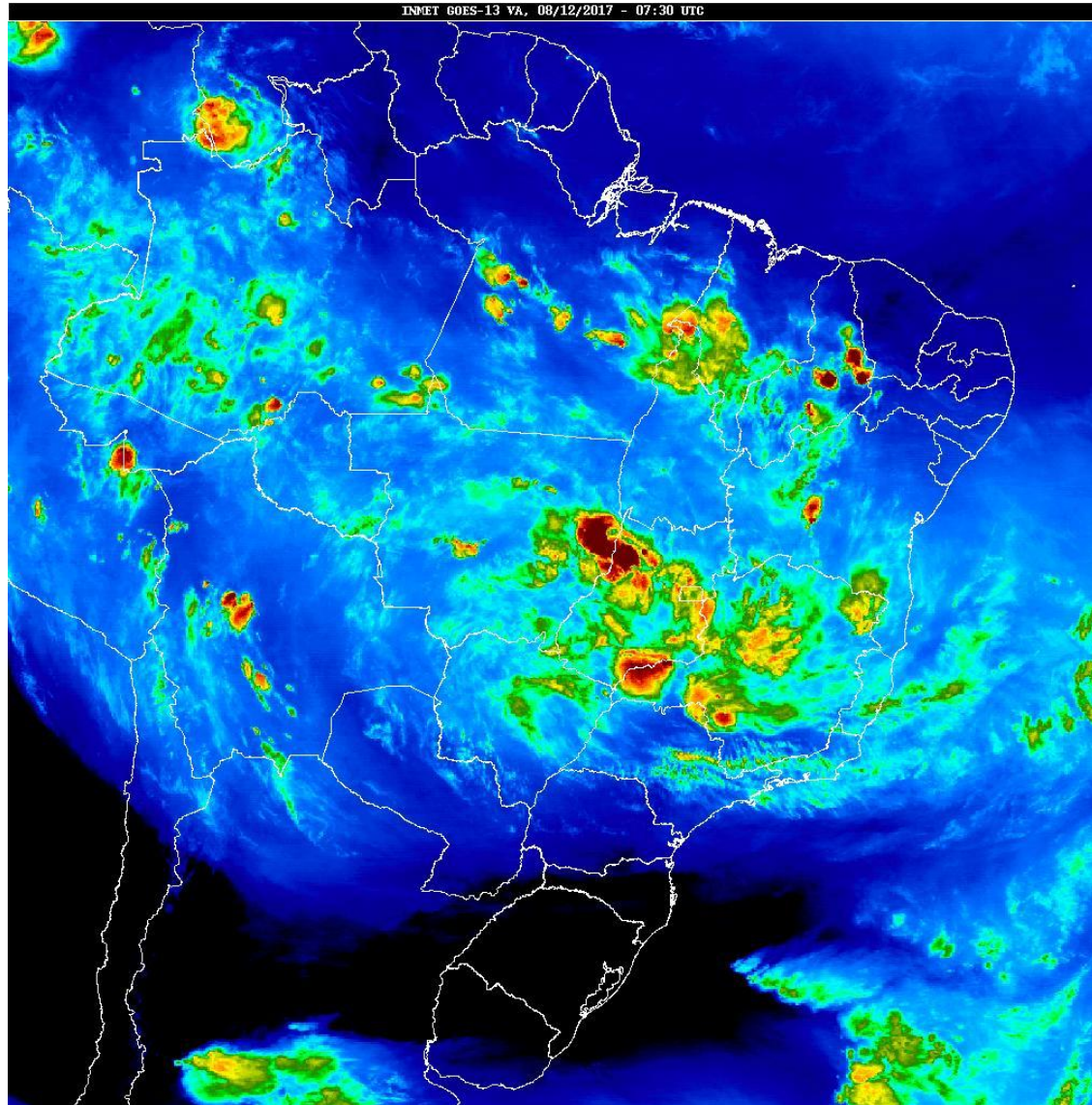
NEW EURO MODEL -- LA NIN bottoms out at -1c WHICH IS WEAK LA NINA then weakens FEB MARCH APRIL



ACTUAL SEA SURFACE TEMP ANOMALIES – not projection .. Large area of cold water surface and sub surface -- weak LA NINA is here



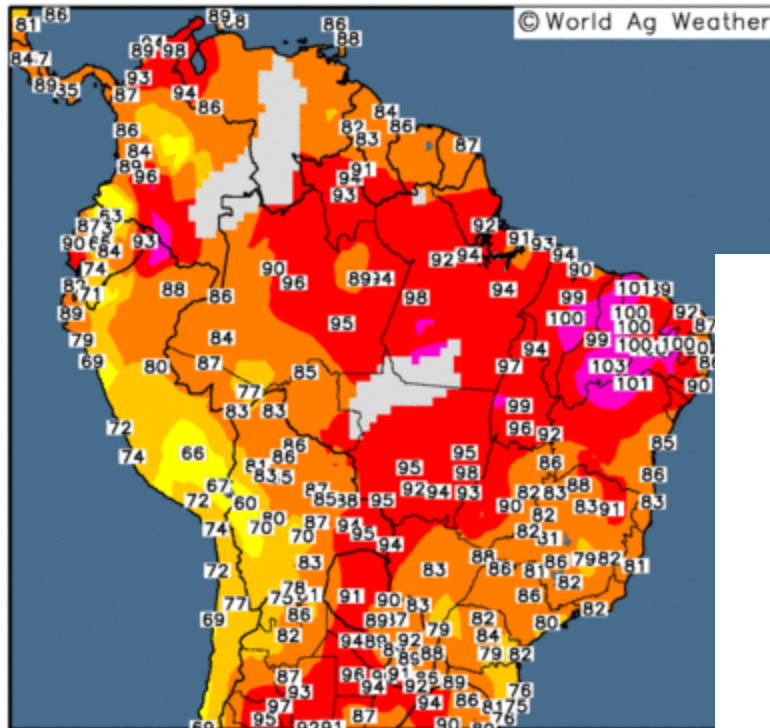
**several clusters of storms over 70% of
GOIAS western Minas Gerais**



TEMP DEC 6

Observed Maximum Temperature (°F)

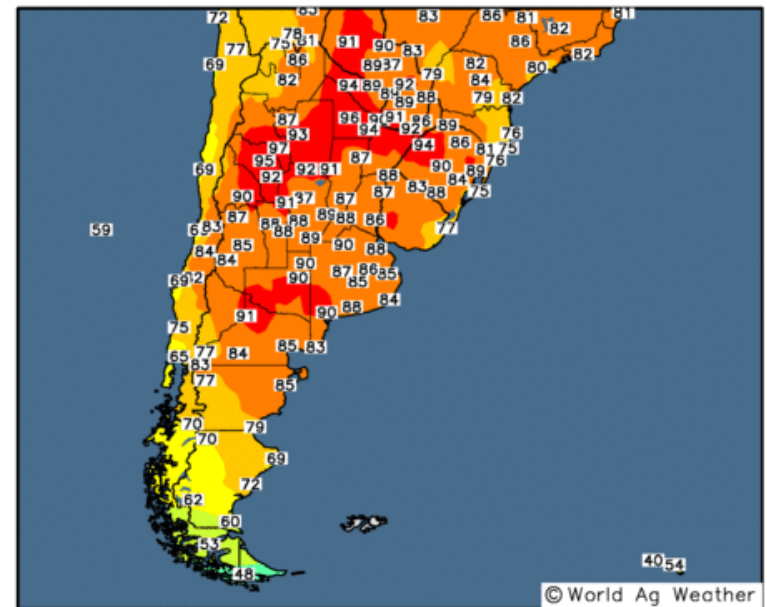
6 Dec 2017



Map updates daily by approximately 16:00 L

Observed Maximum Temperature (°F)

6 Dec 2017

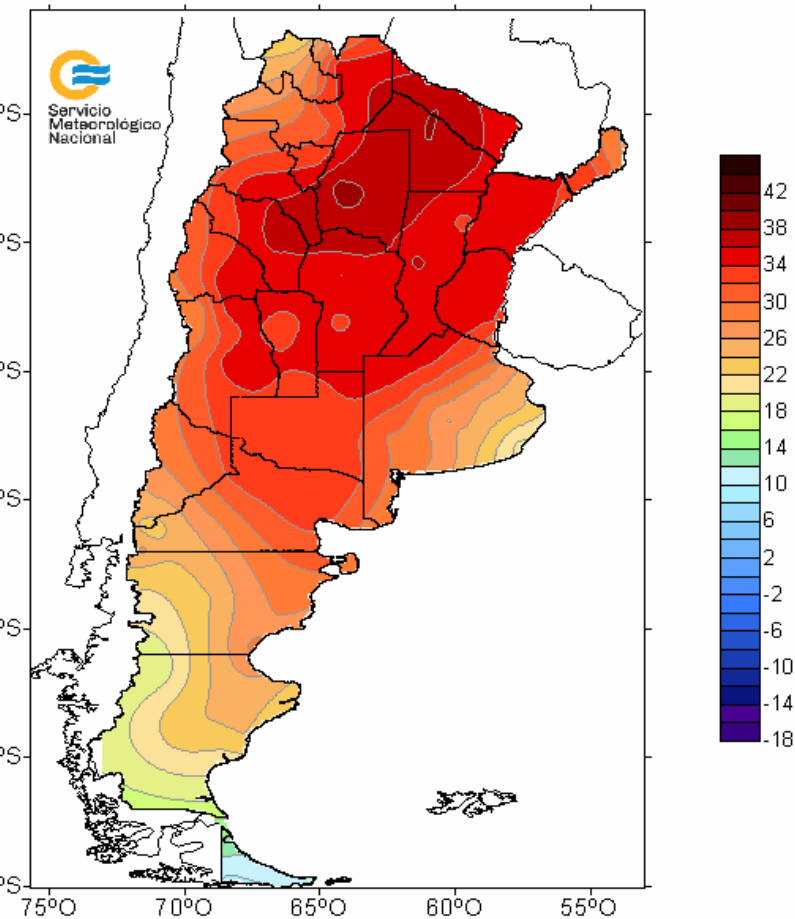


Map updates daily by approximately 16:00 UTC

ARGENTINA TURNING HOT ...34-38C / 94-100 OVER MANY AREAS DEC 7

TEMPERATURAS MAXIMAS

07 de Diciembre de 2017

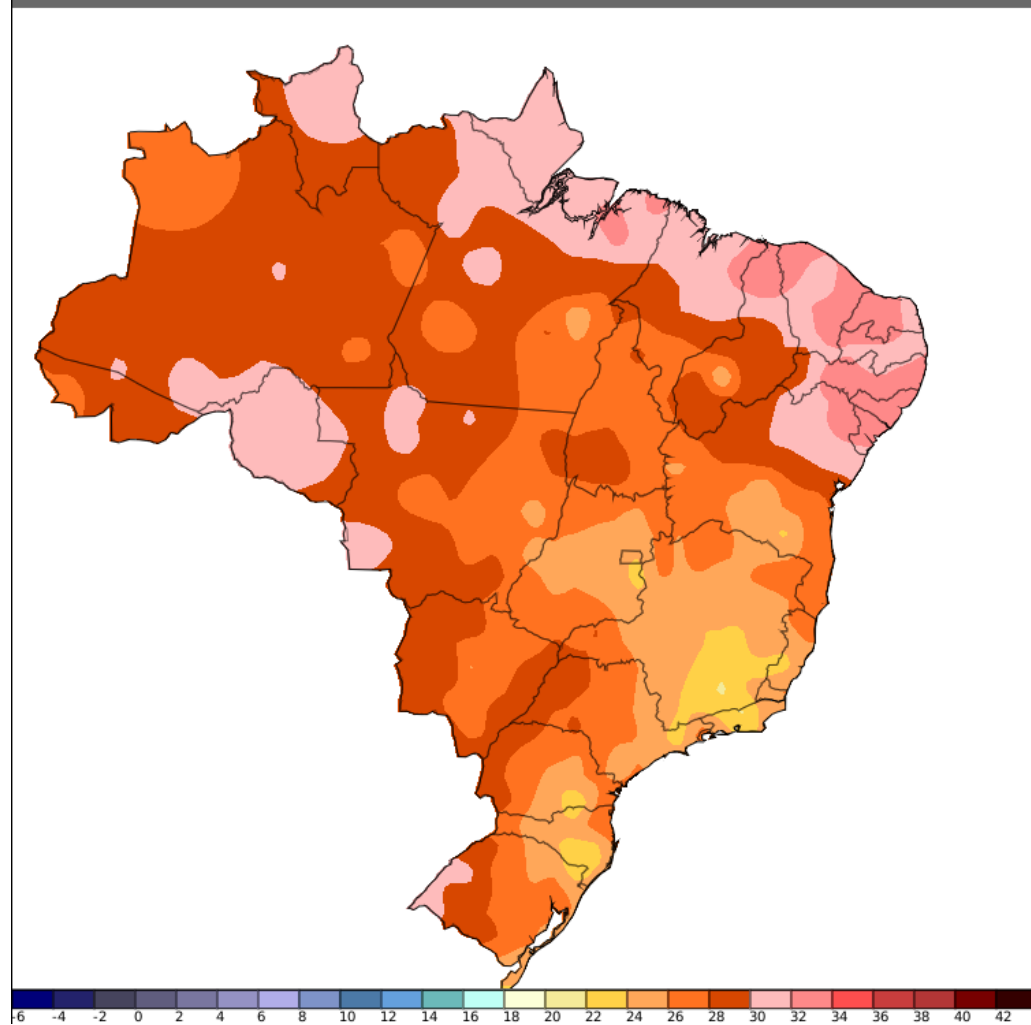


Servicio Meteorológico Nacional

Instituto Nacional de Meteorologia - INMET

Temperatura Máxima (°C)

Informações Sinóticas do dia 08/12/2017 às 13:00 UTC

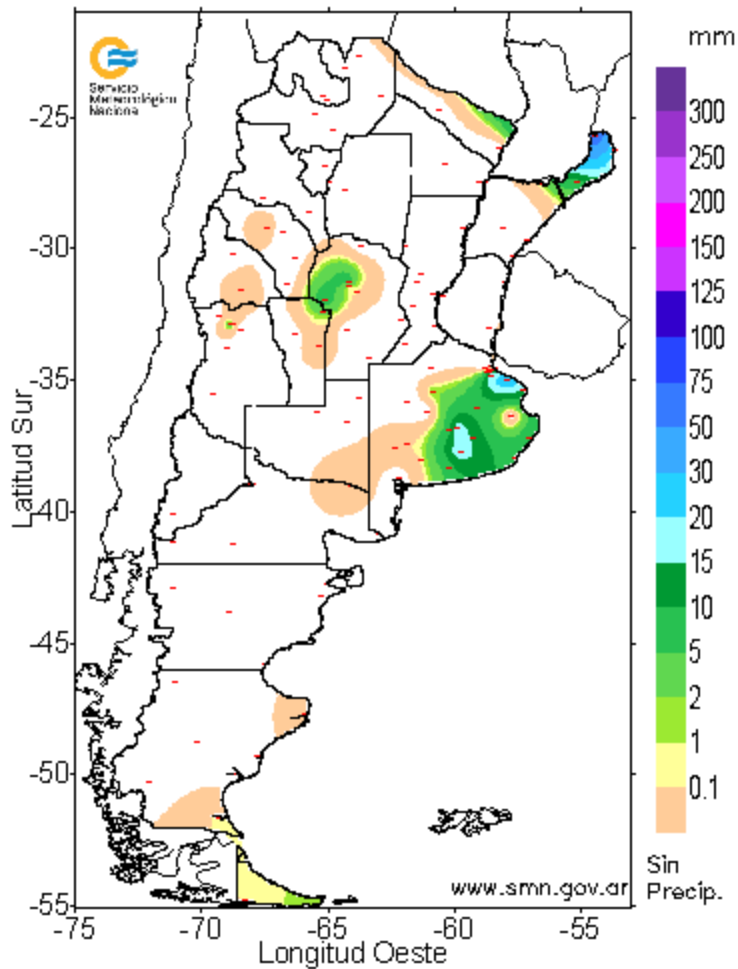


RAINFALL DEC 6

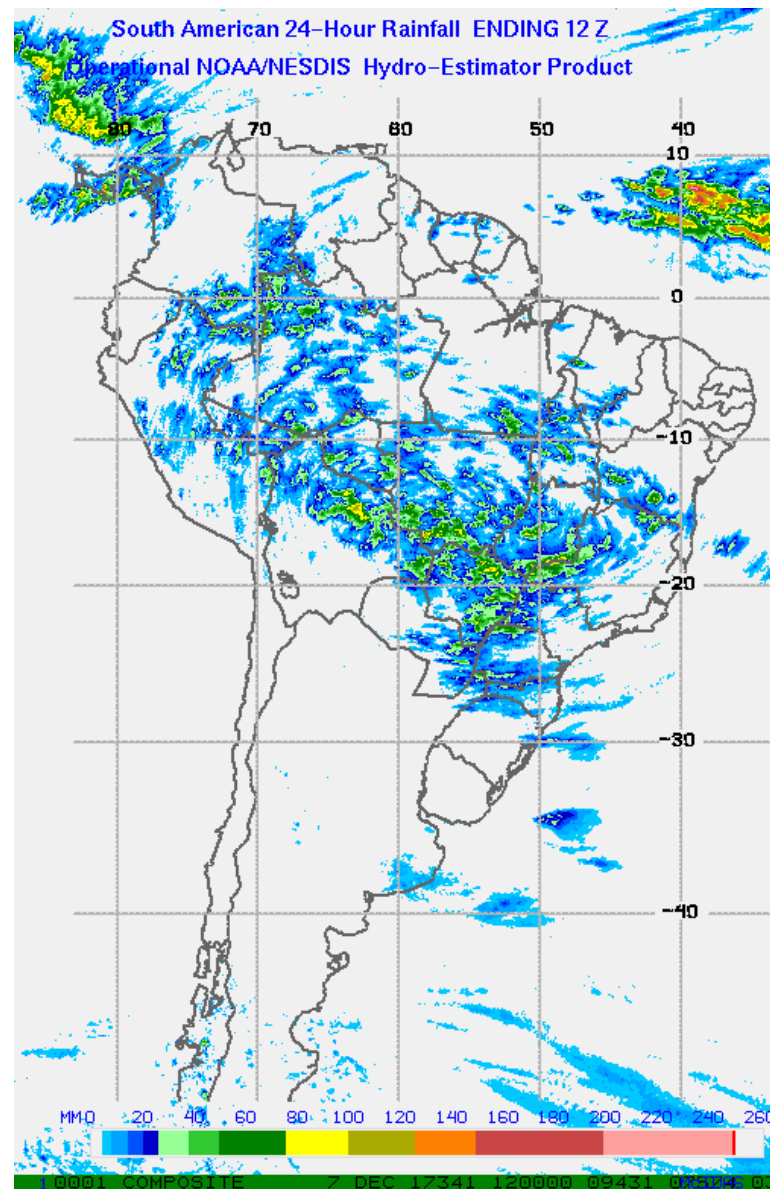
Servicio Meteorológico Nacional

PRECIPITACION (EN MILIMETROS) ACUMULADA EN 24 HORAS

Los valores corresponden al periodo comprendido entre las
9 hs. del 06 /12 /2017 y las 9 hs. del 07 /12 /2017



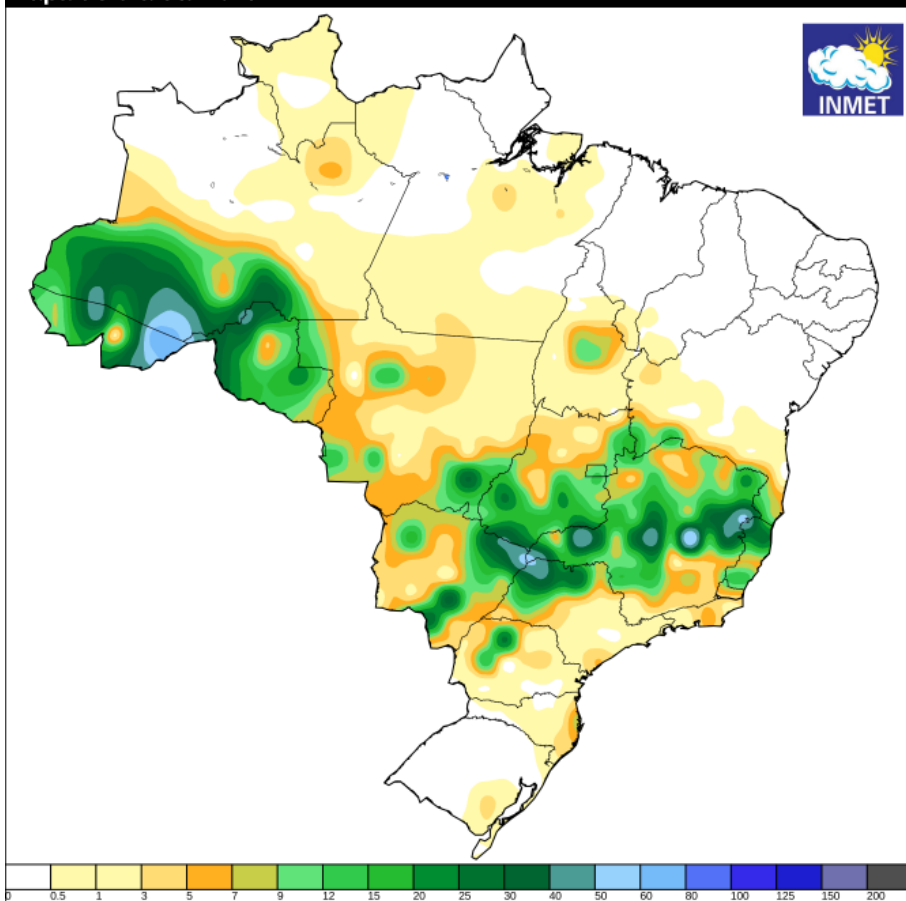
RAINFALL DEC 7



RAINFALL DEC 6

**9-30mm/ 0.10-1.25" 70%
coverage Minas Gerais 50%
south Goiás 40% MGDS..
Several clusters of 40-
80mm/ 1.5-3.25"**

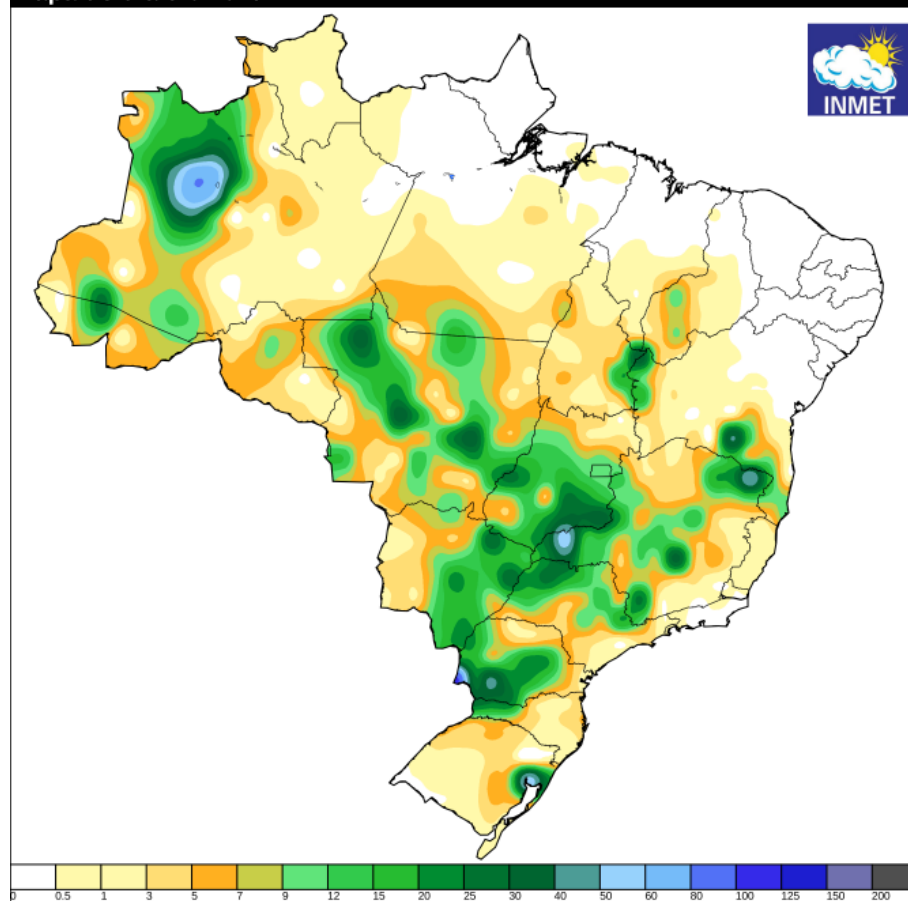
Instituto Nacional de Meteorologia - INMET
Precipitação Acumulada em 24 horas
Mapa do dia 06/12/2017



RAINFALL DEC7

**9-30mm/ 0.10-1.25" 50%
coverage west Minas Gerais
50% west Sao Paulo & Parana
Mato Grosso 70% Goiás**

Instituto Nacional de Meteorologia - INMET
Precipitação Acumulada em 24 horas
Mapa do dia 07/12/2017



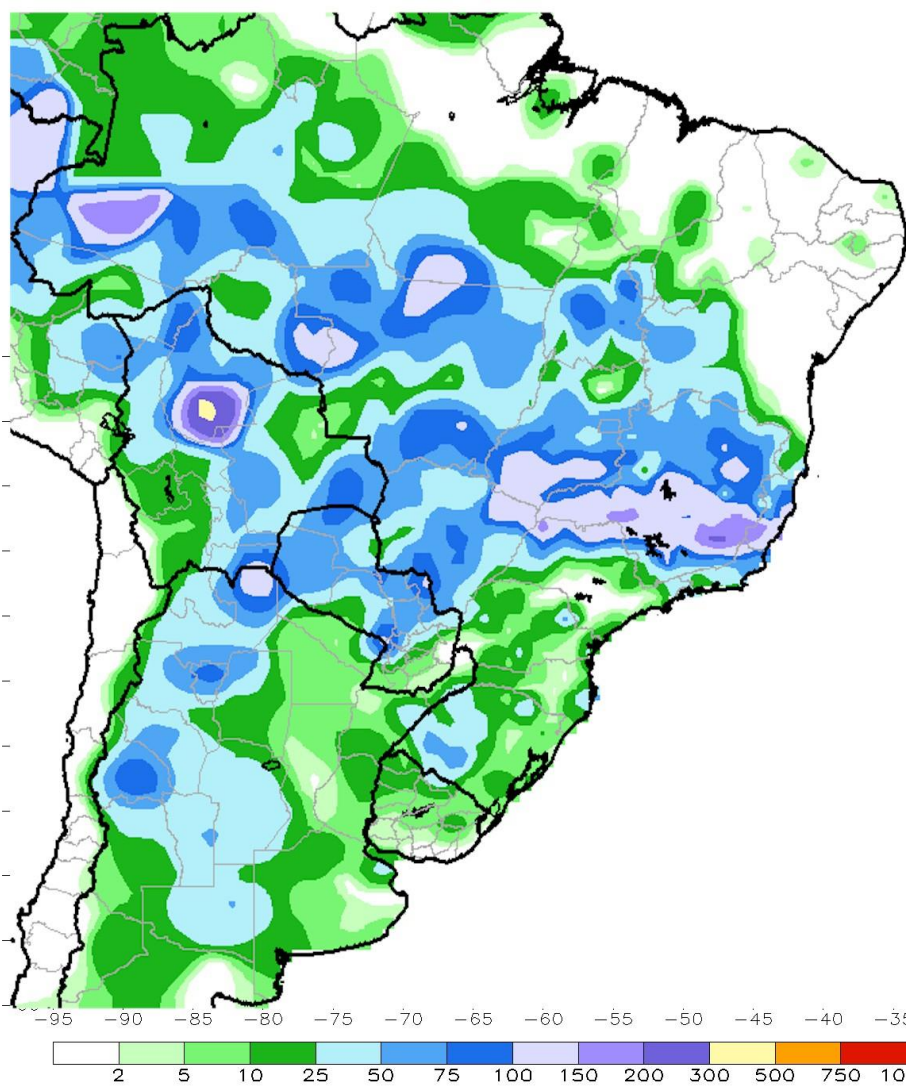
TOTAL RAINFALL LAST 7 DAYS

**southern Minas Gerais south Goiás 100 – 250mm/ 4-10”...
150 -250% above Normal .. SUPER DRY eastern ARG**

RAINFALL ANOMALIES LAST 7D

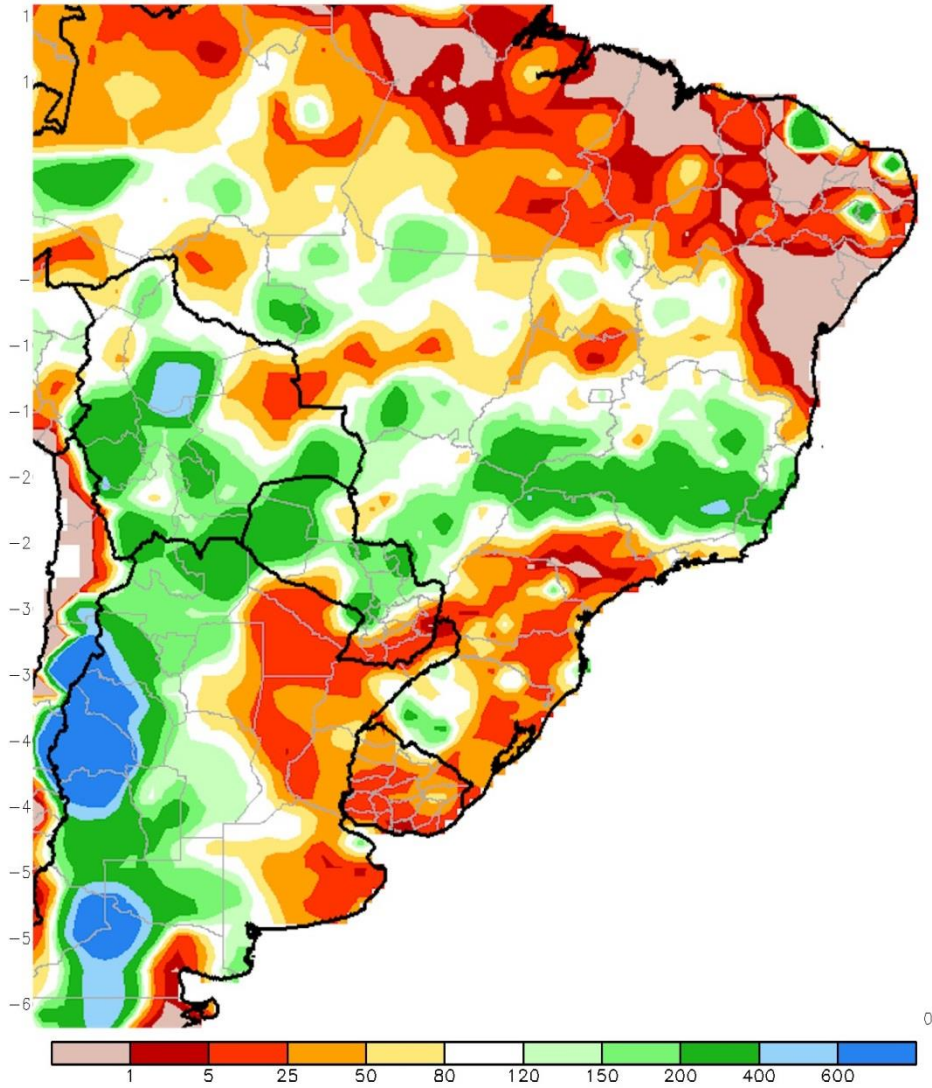
CPC Unified Gauge 7-Day Total Rainfall (mm)

Period: 30Nov2017 – 06Dec2017



CPC Unified Gauge 7-Day Percent of Normal Rainfall (%)

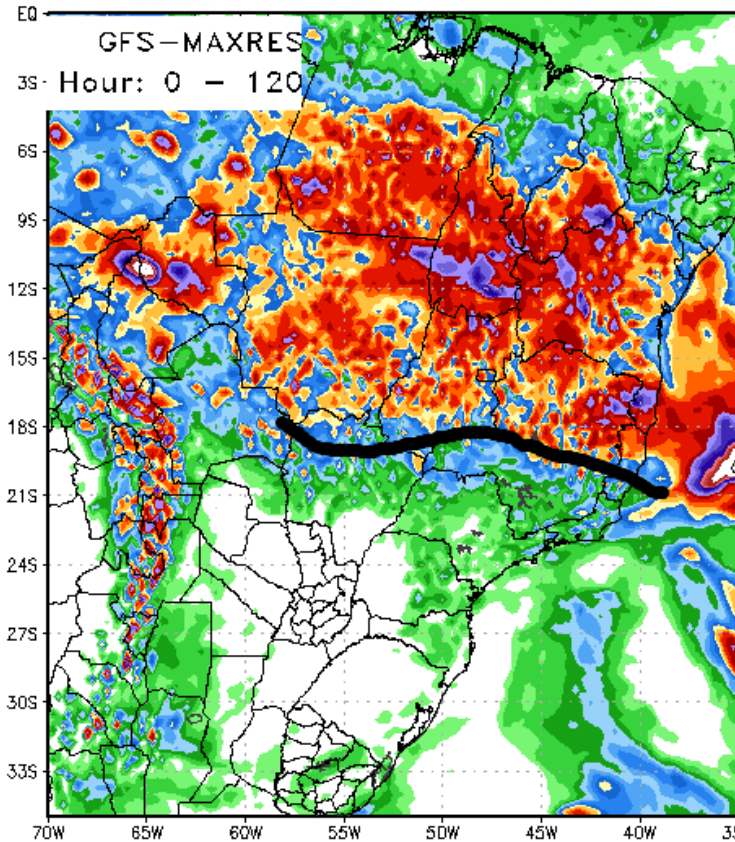
Period: 30Nov2017 – 06Dec2017



EXCELLENT Model agreement here..

120 Hour Total Precipitation (in)

Valid: 00z Fri 08 Dec 2017 - 00z Wed 13 Dec 2017

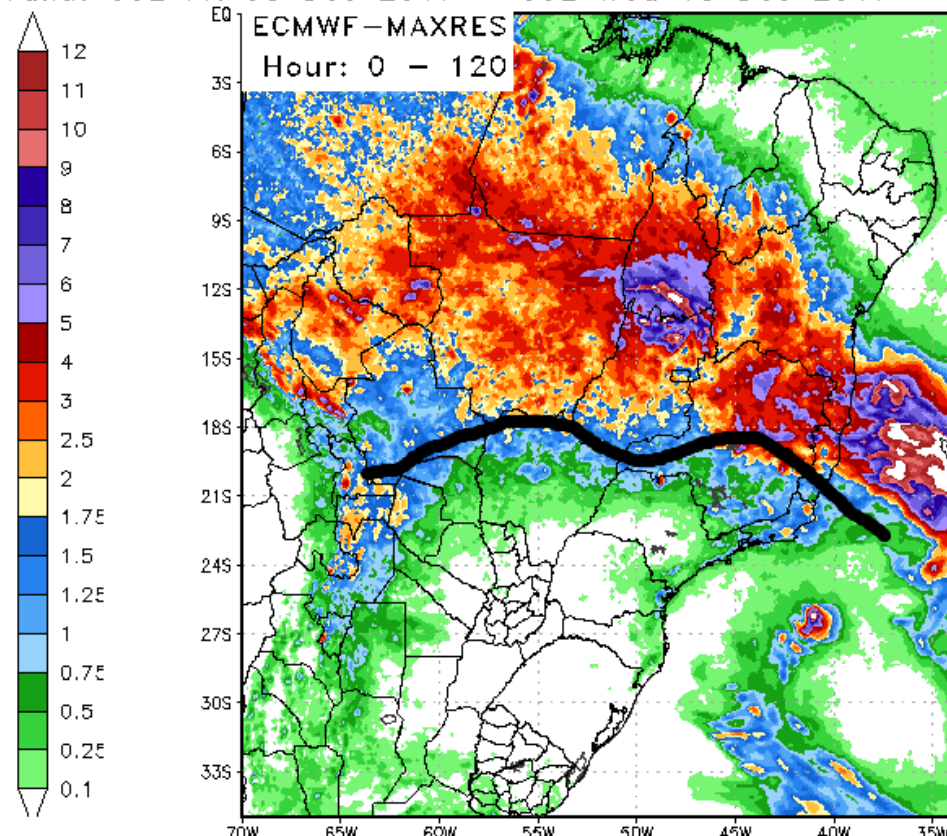


Max: 26.2 in
Min: 0.0 in

StormVistaWxModels.com

120 Hour Total Precipitation (in)

Valid: 00z Fri 08 Dec 2017 - 00z Wed 13 Dec 2017

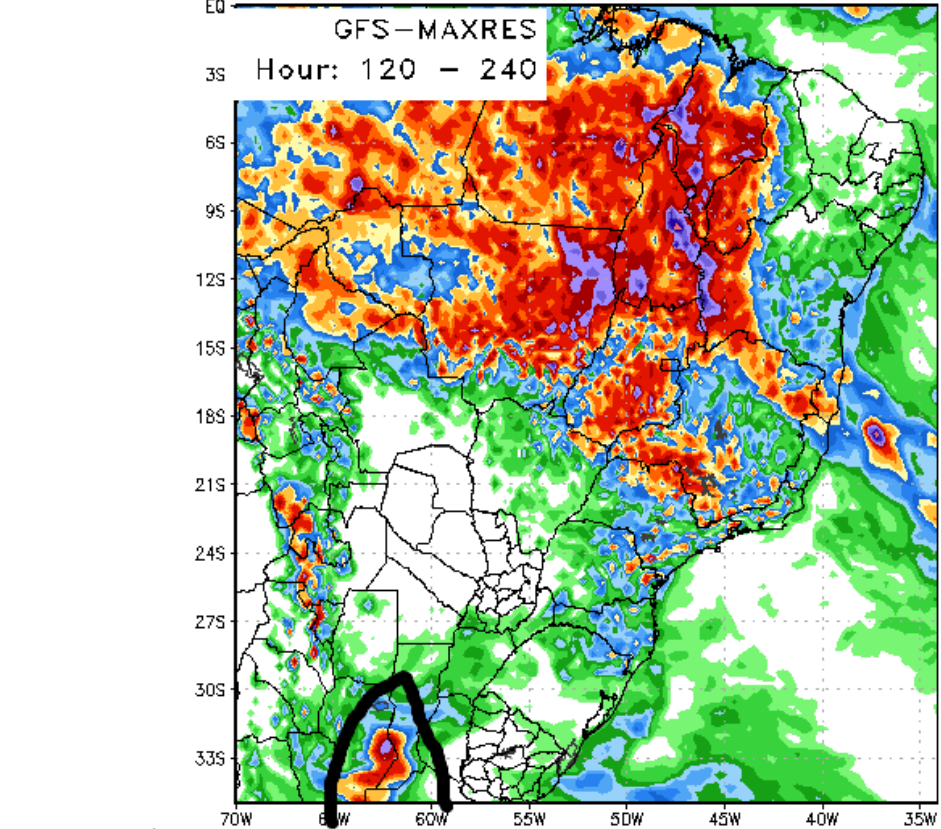


Max: 23.4 in
Min: 0.0 in

StormVistaWxModels.com

EXCELLENT Model agreement AGAIN . All of se Brazil & most of ARG very dry. Note GFS storms over Santa Fe

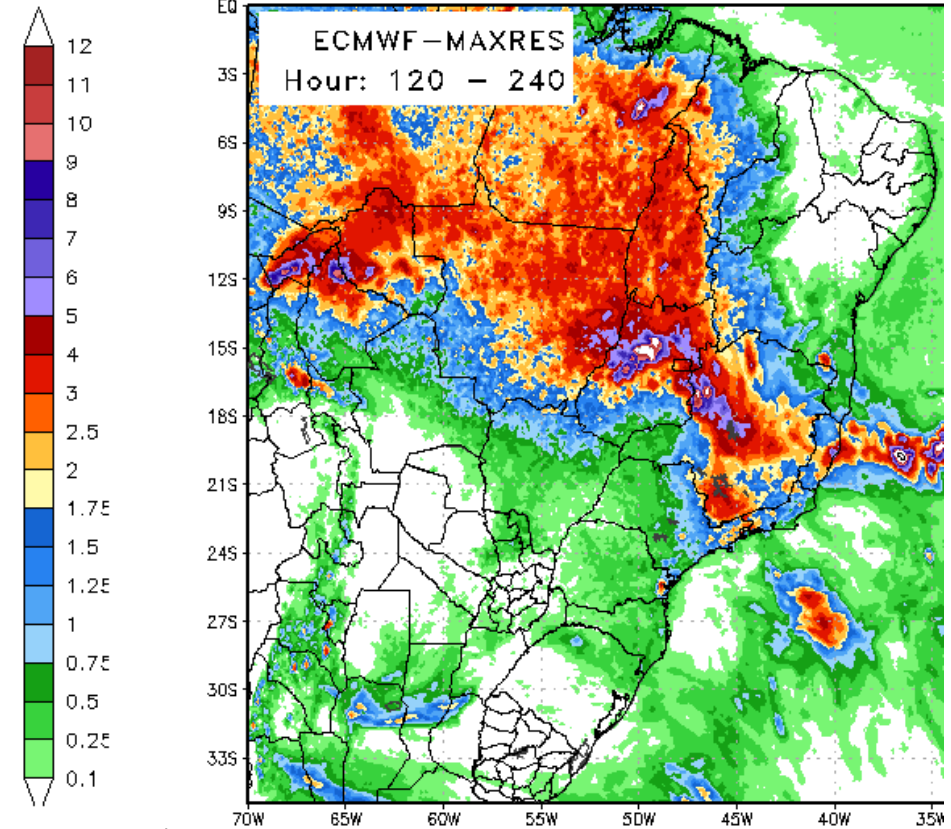
120 Hour Total Precipitation (in)
Valid: 00z Wed 13 Dec 2017 – 00z Mon 18 Dec 2017



Max: 10.0 in
Min: 0.0 in

StormVistaWxModels.com

120 Hour Total Precipitation (in)
Valid: 00z Wed 13 Dec 2017 – 00z Mon 18 Dec 2017

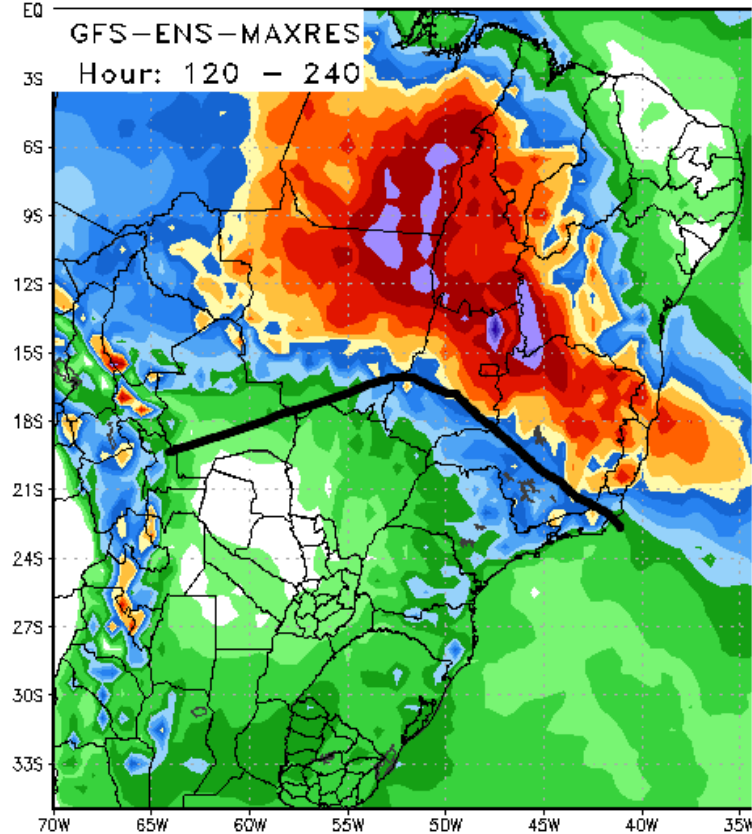


Max: 20.2 in
Min: -0.0 in

StormVistaWxModels.com

EXCELLENT Model agreement AGAIN . Plumb of rain continues into Minas Gerais Goias Mato Grosso ... All of se & sw Brazil & most of ARG very dry.

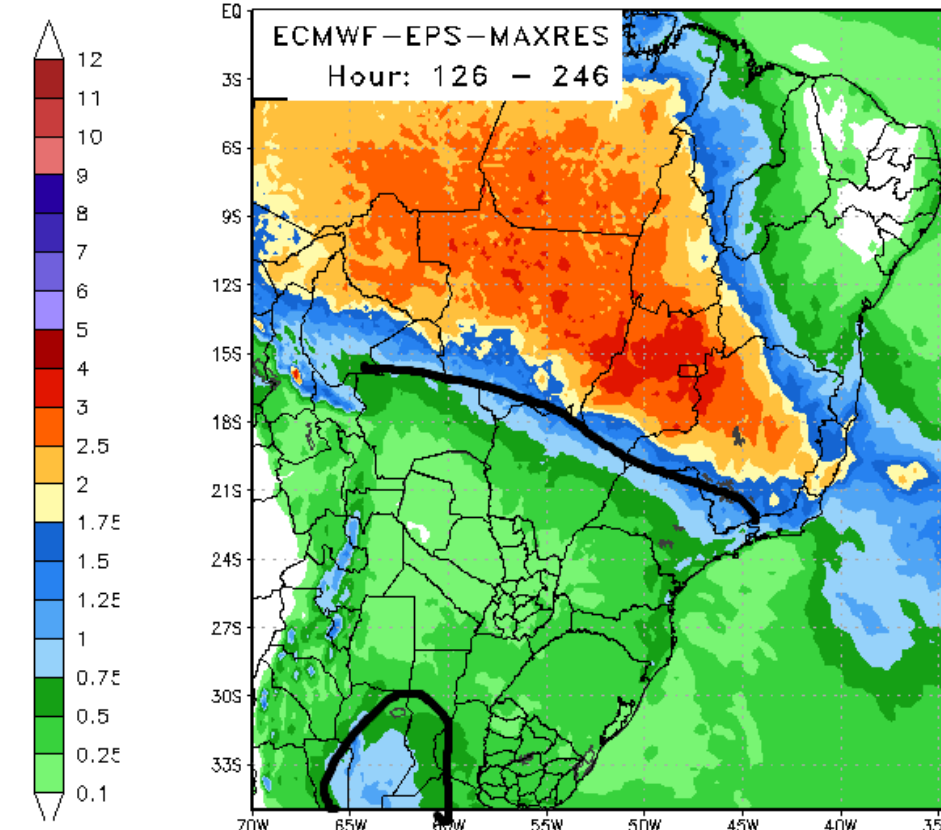
120 Hour Total Precipitation (in)
Valid: 00z Wed 13 Dec 2017 - 00z Mon 18 Dec 2017



Max: 8.5 in
Min: 0.0 in

StormVistaWxModels.com

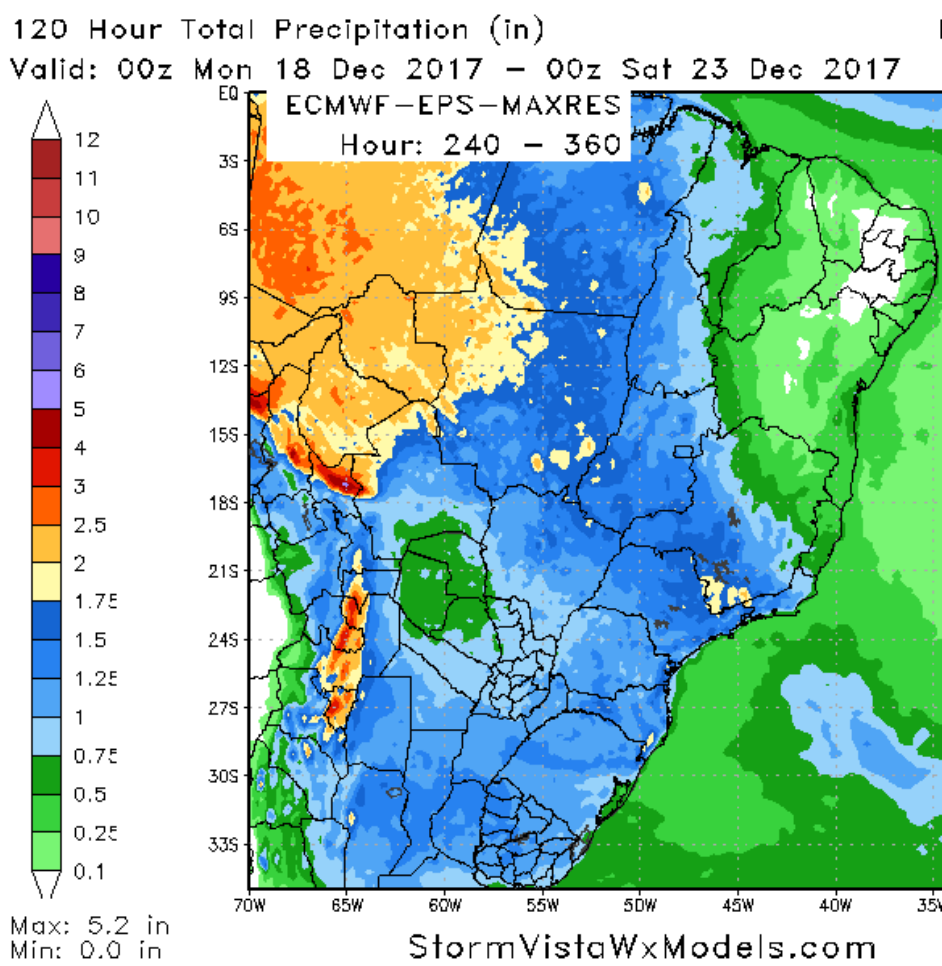
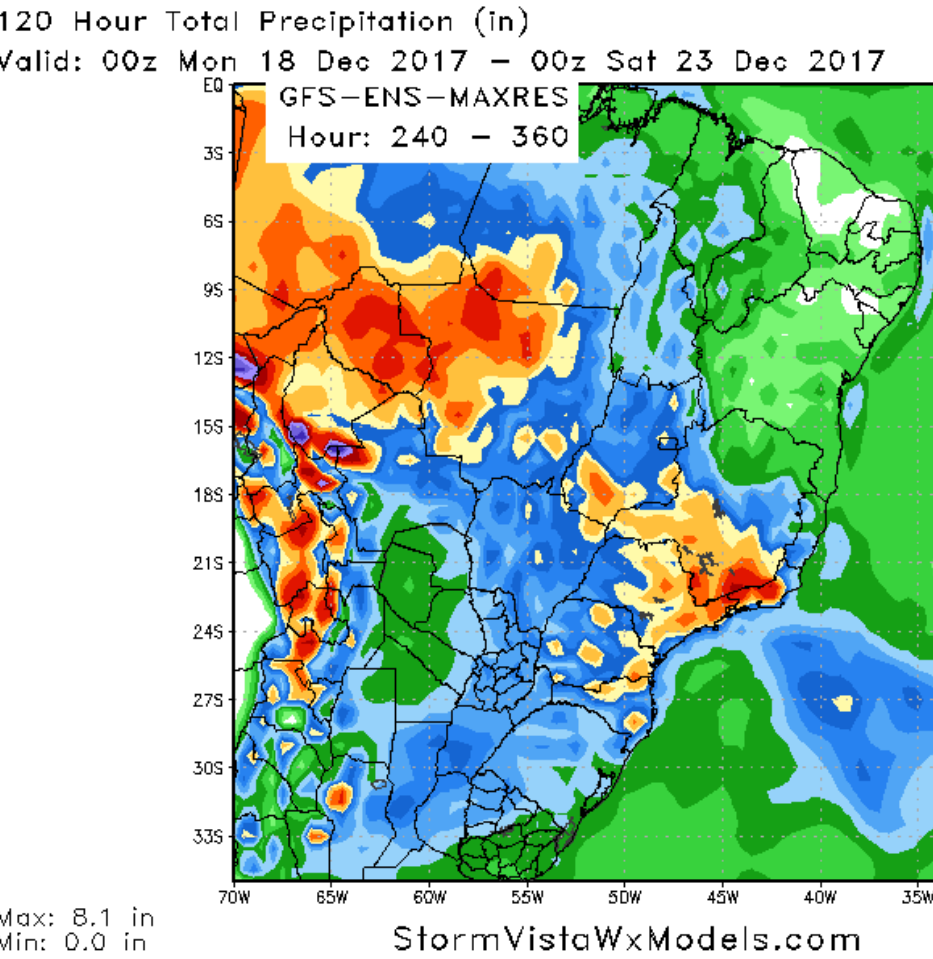
120 Hour Total Precipitation (in)
Valid: 06z Wed 13 Dec 2017 - 06z Mon 18 Dec 2017



Max: 3.8 in
Min: 0.0 in

StormVistaWxModels.com

AARG TURNS WET heavy rains leave central and east central Brazil

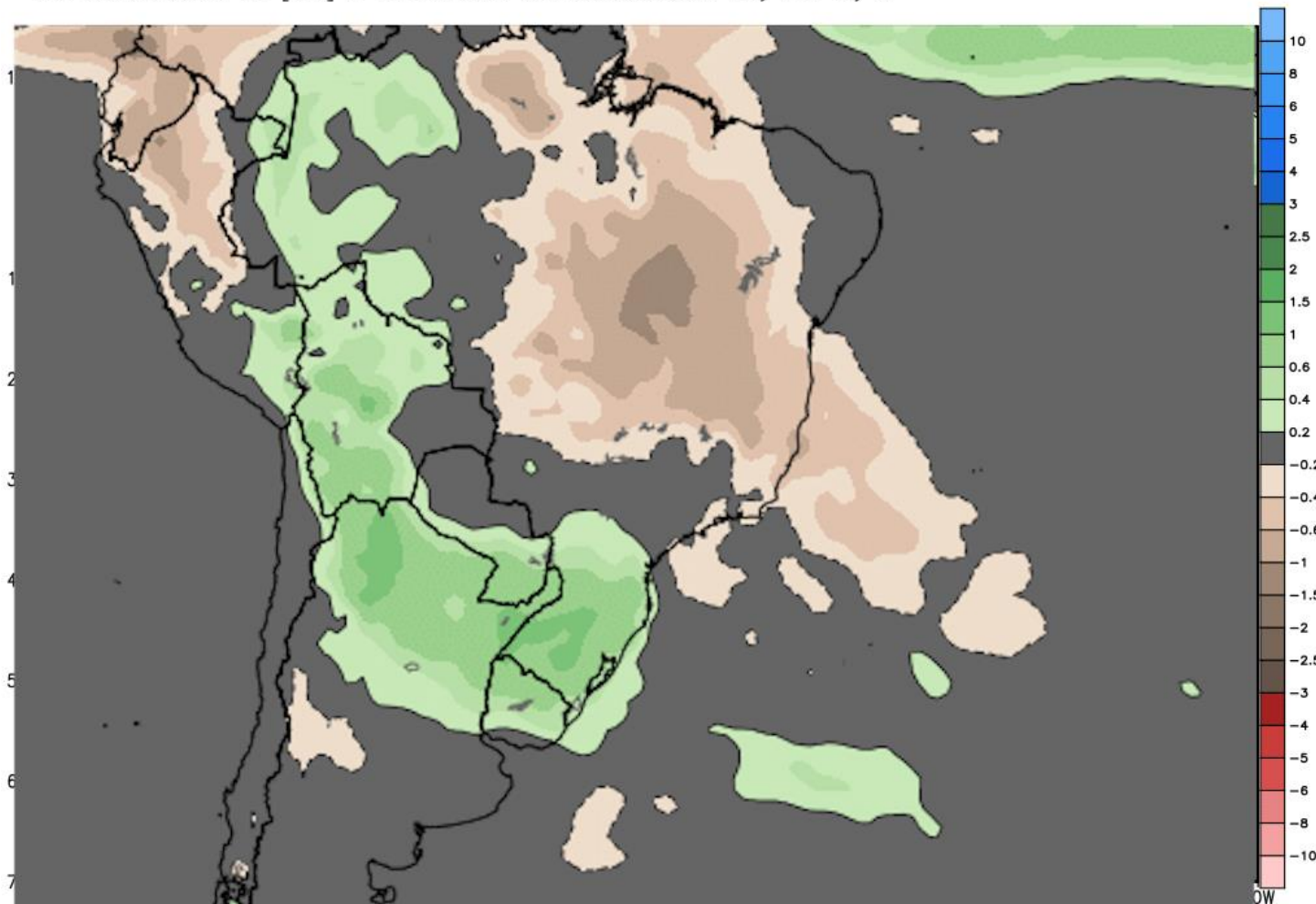


EURO WEEKLY IN 16-20 DAY KEEPS ARG WET & MUCH OF BRAZIL TURNS DRY

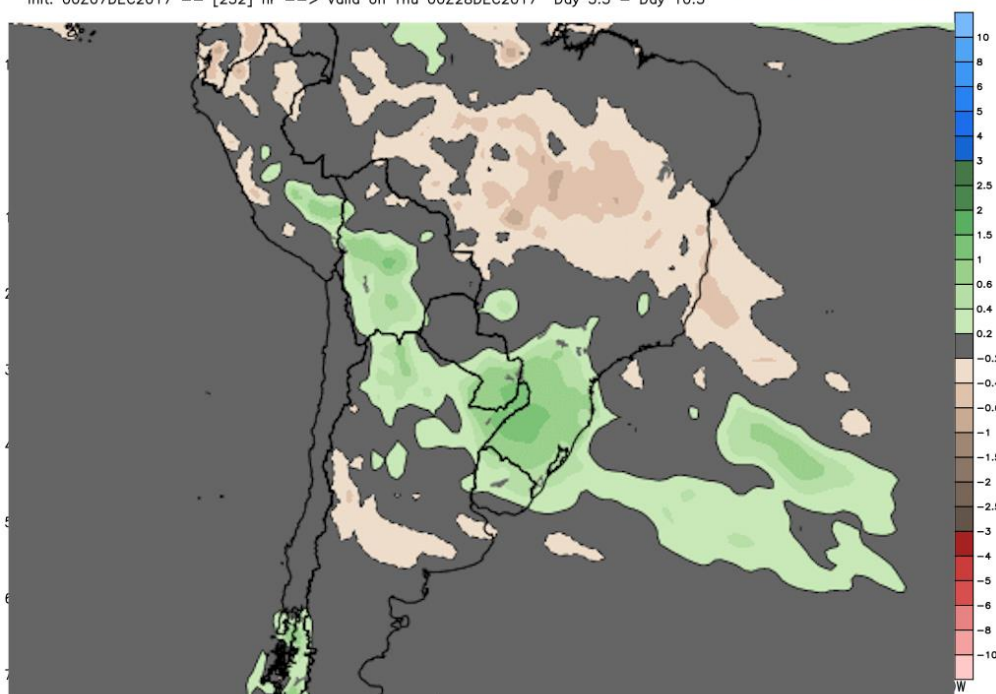
ECMWF EPS Ensemble Mean 7-day Avg Precipitation Anomaly [inch]

Init: 00Z07DEC2017 -- [216] hr --> Valid on Mon 00Z25DEC2017 Day 2 - Day 9

Min|Max Anom: -4.1 | 3.7 inch



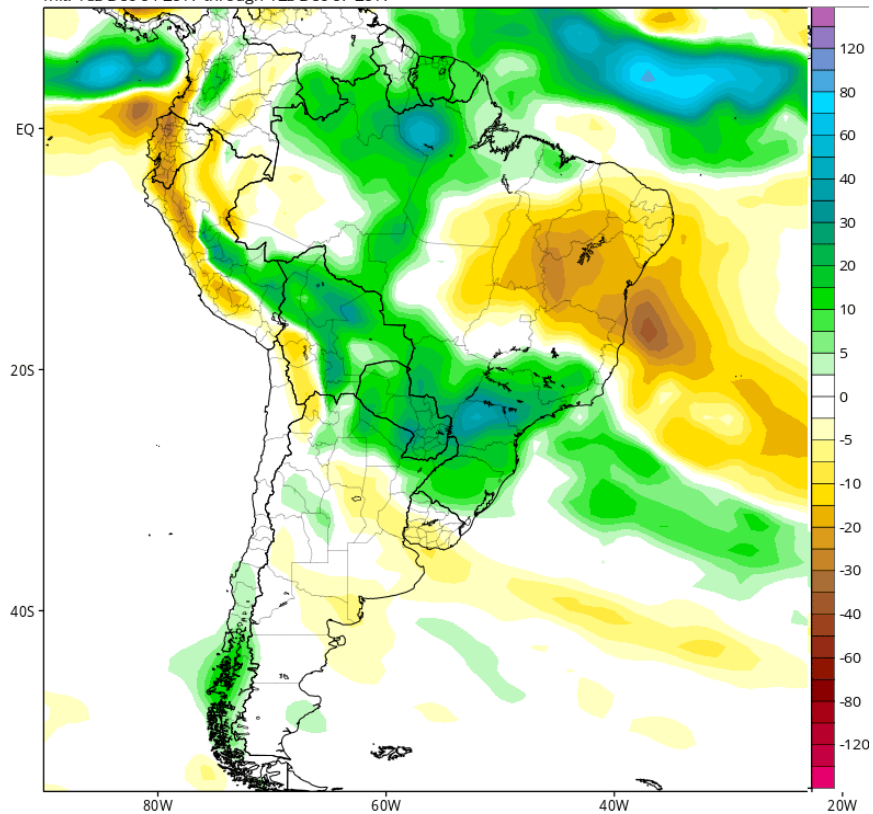
Accumulation between 00Z18DEC2017-00Z25DEC2017 | ECMWF EPS 1997-2016 Hindcast Climatology



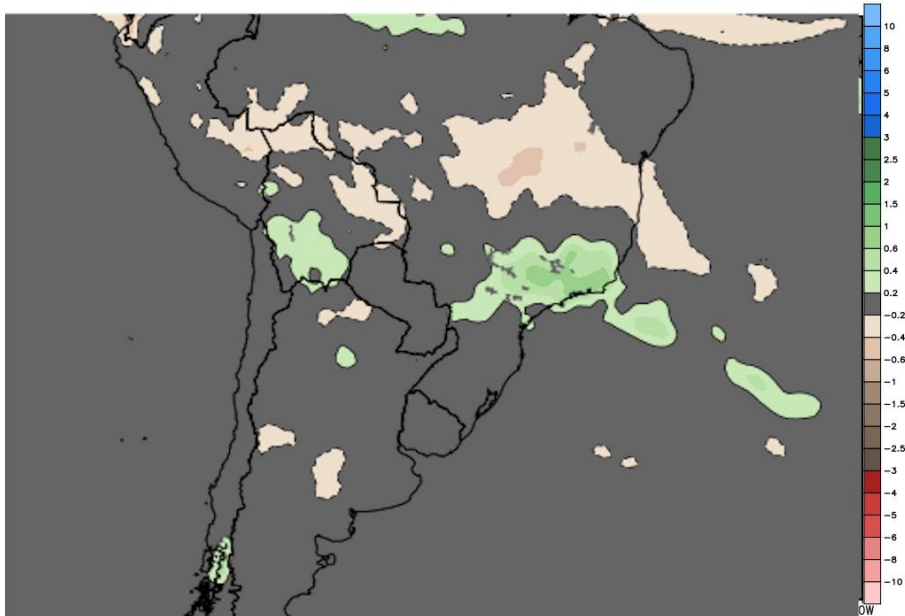
Accumulation between 00Z21DEC2017-00Z28DEC2017 | ECMWF EPS 1997-2016 Hindcast Climatology

EURO DEC 21-28

CFSv2 Accumulated Precip. Anomaly (mm) from 12z21Dec2017 to 12z28Dec2017 (Days 15-21)
Average of last 48 forecasts (12 runs x 4 members)
Init: 18z Dec 04 2017 through 12z Dec 07 2017



CFS DEC 21-28

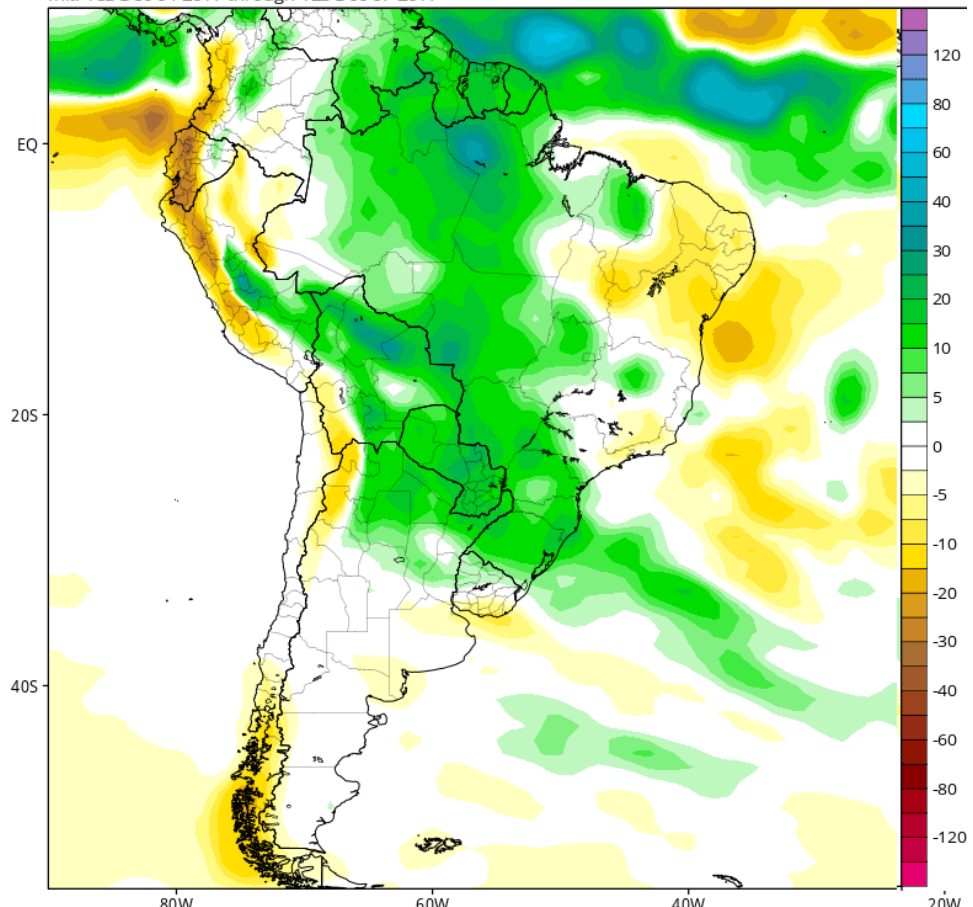


Accumulation between 00Z28DEC2017-00Z04JAN2018 | ECMWF EPS 1997-2016 Hindcast Climatology

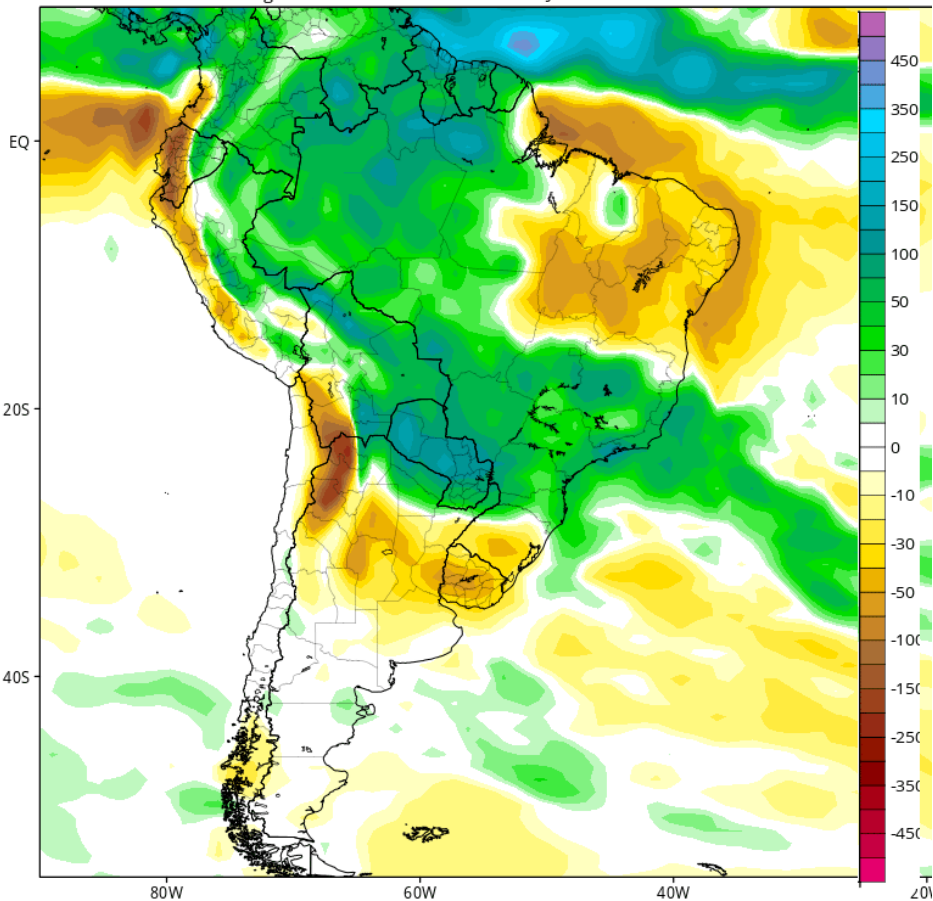
CFS MODEL

EURO DEC 28- JAN 4

CFSv2 Accumulated Precip. Anomaly (mm) from 12z28Dec2017 to 12z04Jan2018 (Days 22-28)
Average of last 48 forecasts (12 runs x 4 members)
Init: 18z Dec 04 2017 through 12z Dec 07 2017

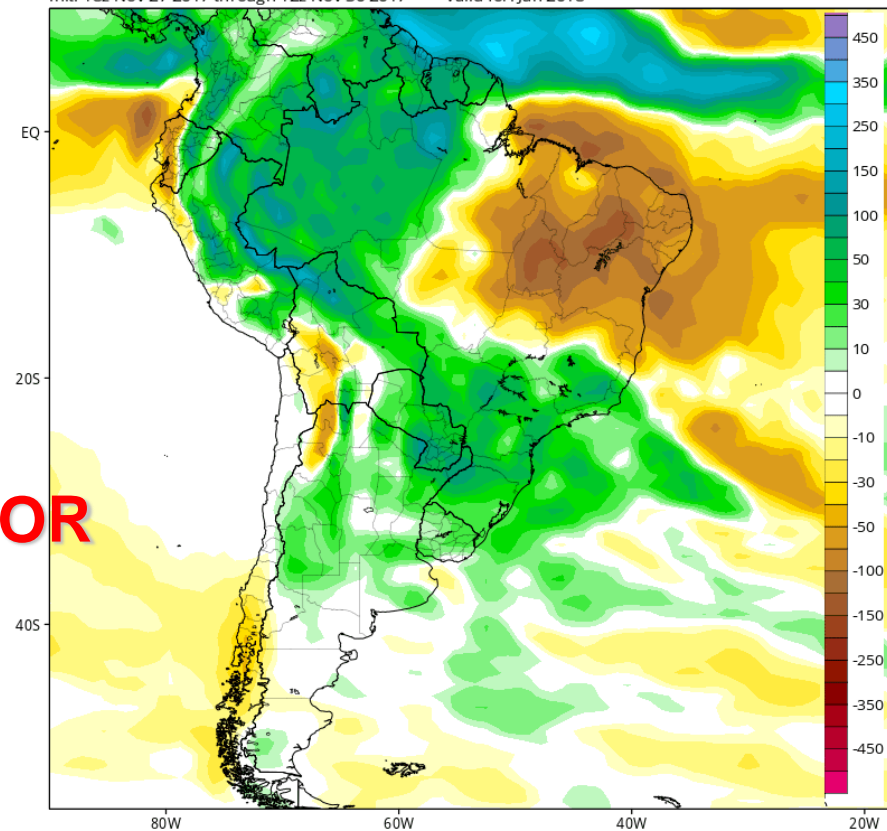


CFSv2 Total Accumulated Precipitation Anomaly (mm)
Average of last 12 forecasts (12 runs x 1 members)
Init: 18z Dec 04 2017 through 12z Dec 07 2017 Valid for: Jan 2018



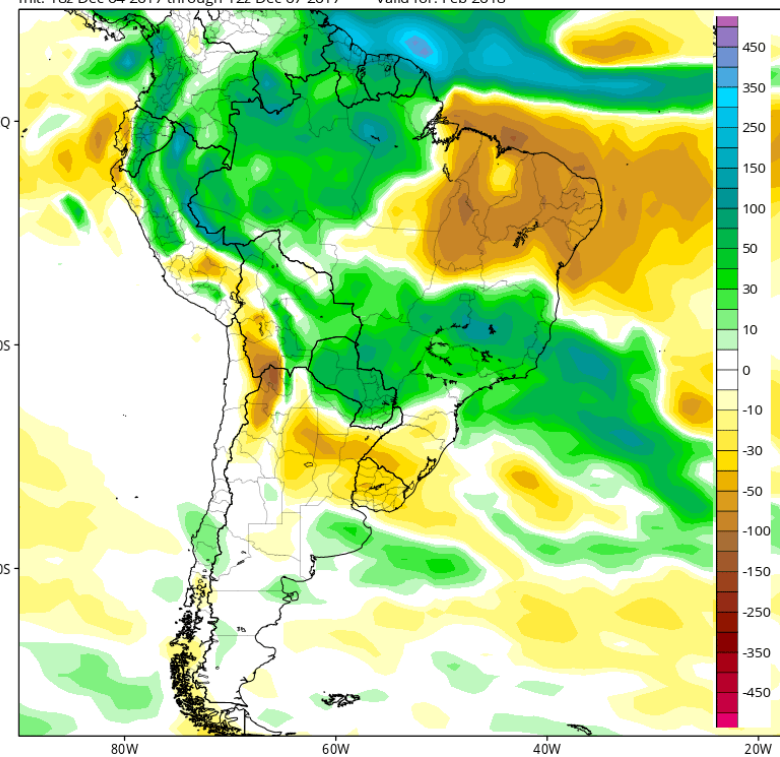
**NEW CFS FOR
JAN 2018 --- much
drier when compared
to last week**

CFSv2 Total Accumulated Precipitation Anomaly (mm)
Average of last 12 forecasts (12 runs x 1 members)
Init: 18z Nov 27 2017 through 12z Nov 30 2017 Valid for: Jan 2018



**OLD CFS FOR
JAN 2018**

Average of last 12 forecasts (12 runs x 1 members)
Init: 18z Dec 04 2017 through 12z Dec 07 2017 Valid for: Feb 2018



OLD CFS FOR FEB 2018

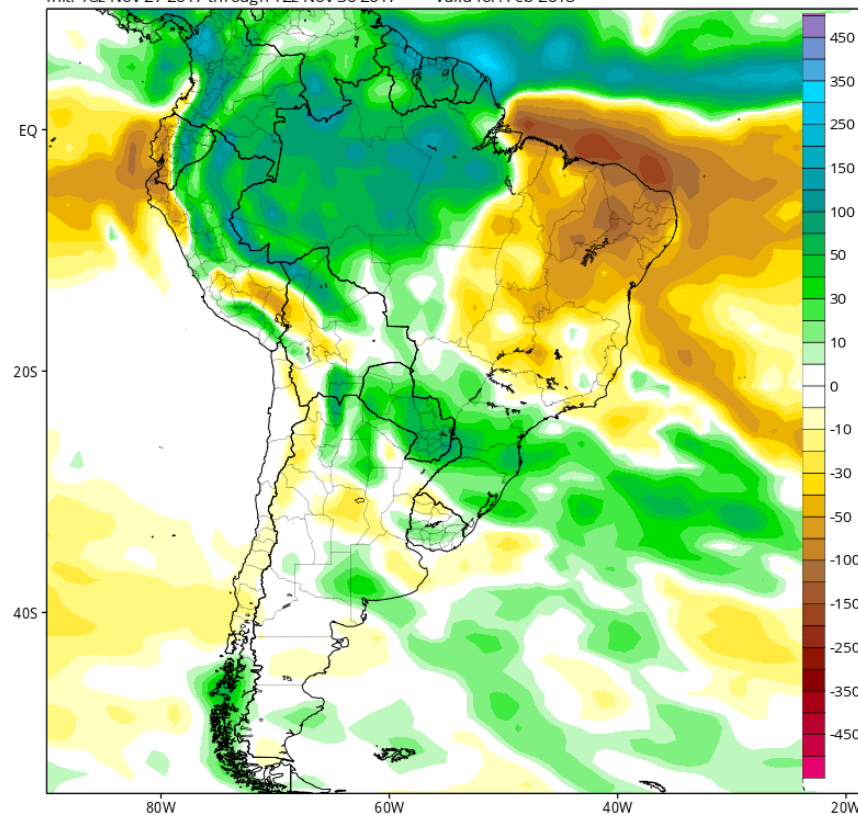
NEW CFS FOR FEB 2018

**clearly TRENDING drier
for ARG BIG CHANGE
from last week**

CFSv2 Total Accumulated Precipitation Anomaly (mm)

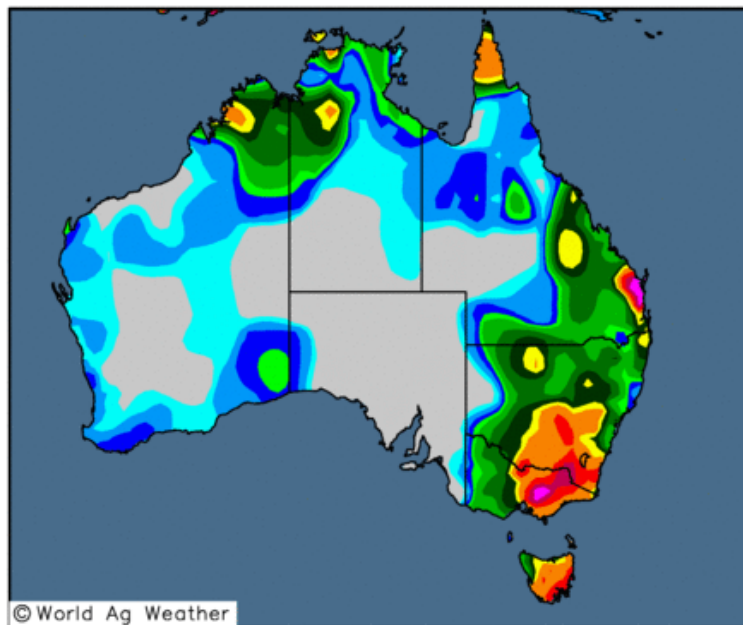
Average of last 12 forecasts (12 runs x 1 members)

Init: 18z Nov 27 2017 through 12z Nov 30 2017 Valid for: Feb 2018



14-day Precipitation Analysis

Observed precipitation (inches) through 12 UTC 6 Dec 2017

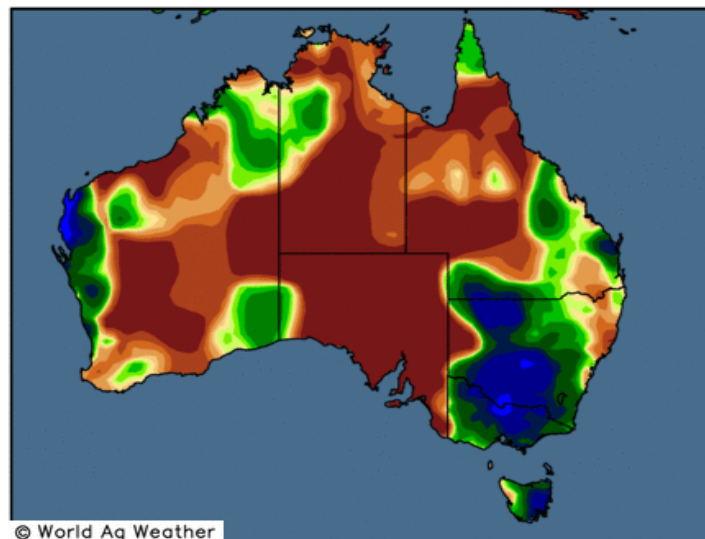


Map updates daily by approximately 20:30 UTC

**super wet for
eastern AUS pattern
continues**

14-day Precipitation Analysis

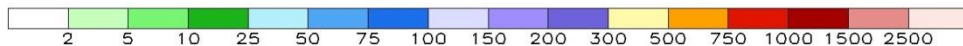
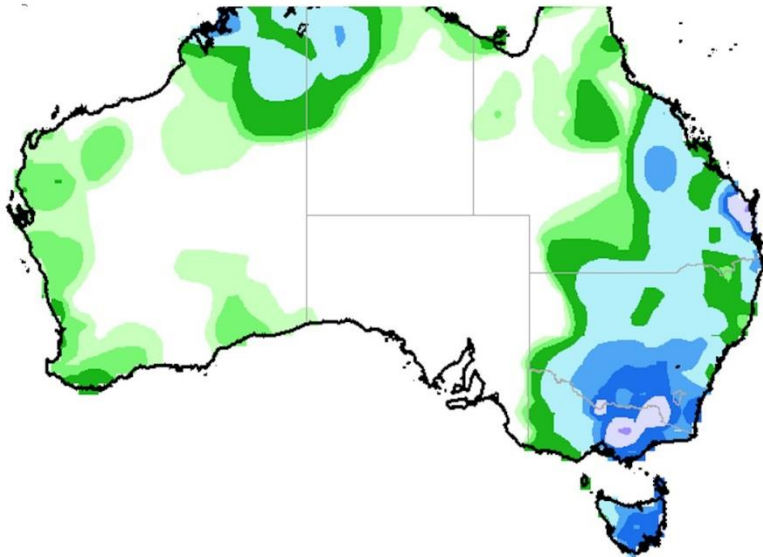
Percent of normal through 12 UTC 6 Dec 2017



Map updates daily by approximately 20:30 UTC

CPC Unified Gauge 7-Day Total Rainfall (mm)

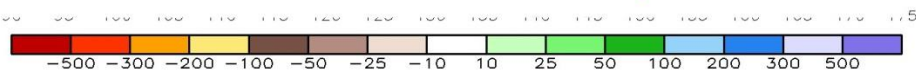
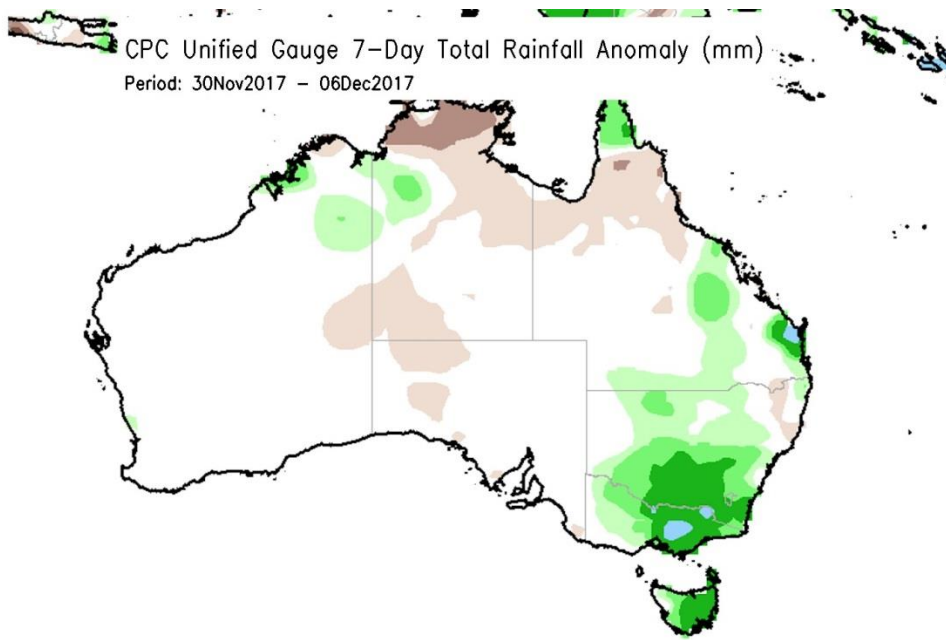
Period: 30Nov2017 - 06Dec2017



**EVEN OVER LAST 7 DAYS
GREAT RAINS much fo
central NSW into se
Queensland 25-50mm/ 1-2"
75-100mm/ 3-4" south NSW
& Victoria**

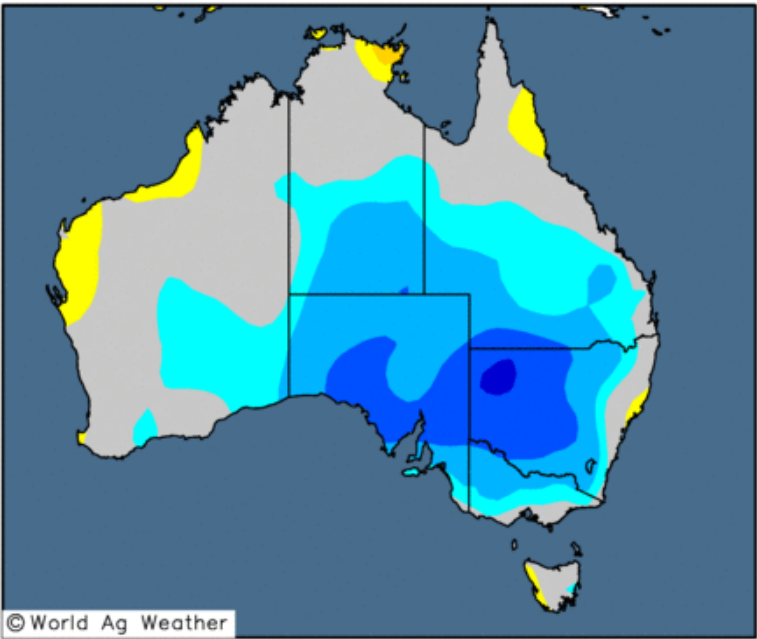
CPC Unified Gauge 7-Day Total Rainfall Anomaly (mm)

Period: 30Nov2017 - 06Dec2017



Maximum Temperature Departure from Normal (°F)

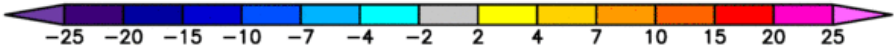
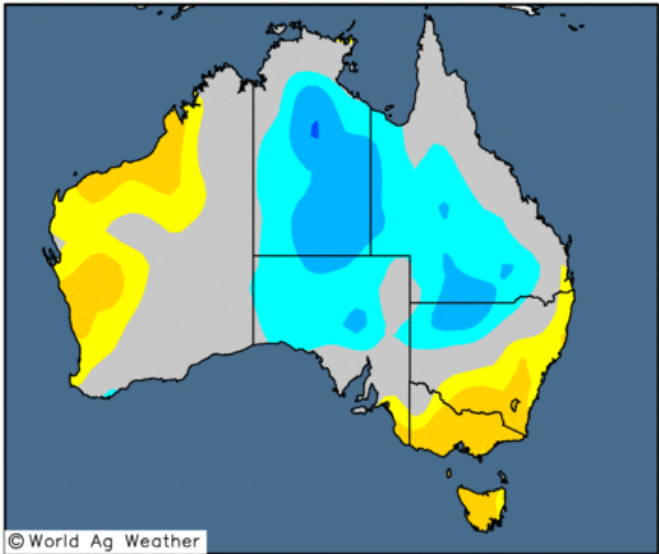
7 days ending 6 Dec 2017



Map updates daily by approximately 16:00 UTC

Minimum Temperature Departure from Normal (°F)

7 days ending 6 Dec 2017



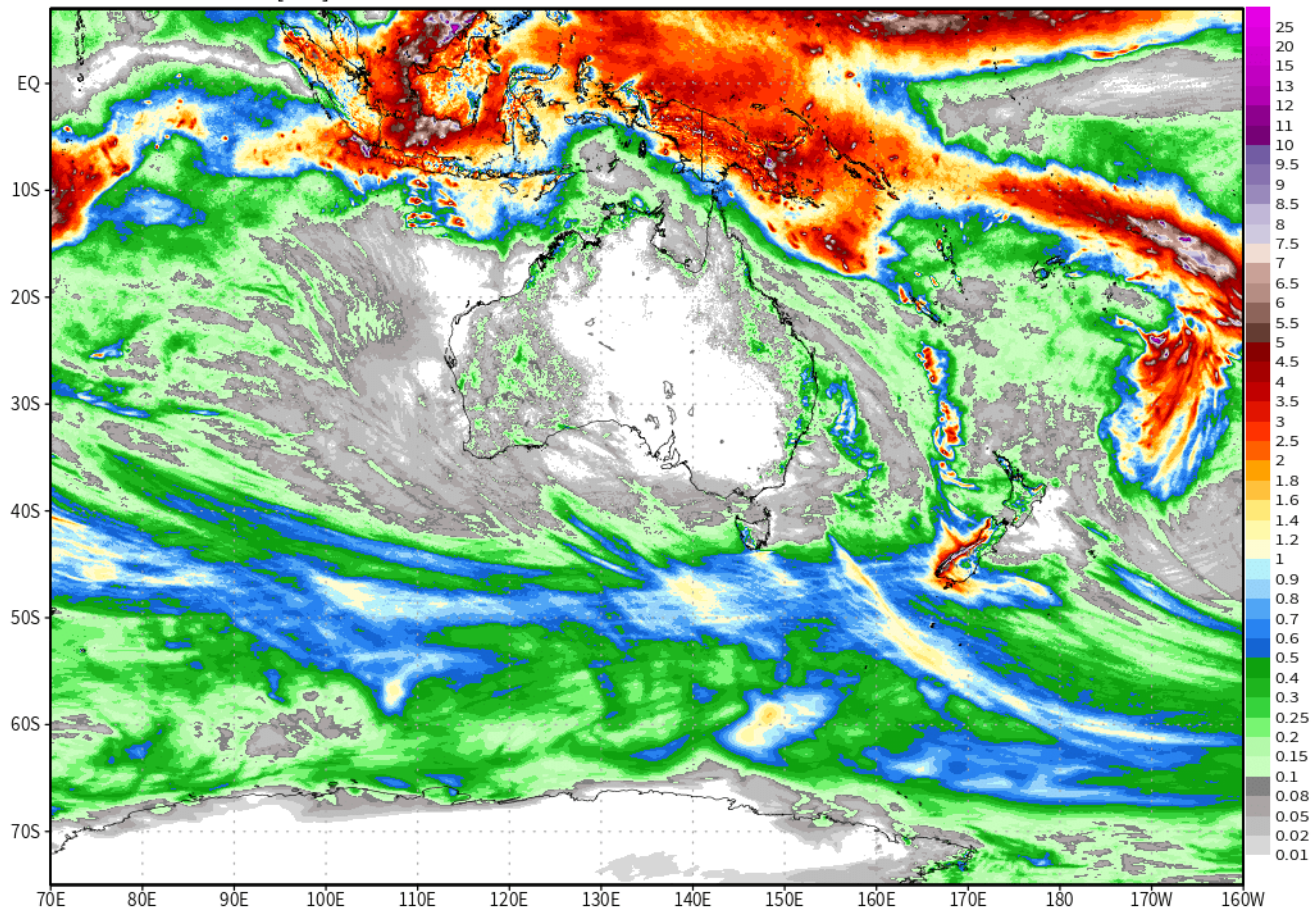
Map updates daily by approximately 16:00 UTC

NEXT 5 DAYS ALL OF AUS IS DRY

ECMWF Total Precipitation [inch]

Init: 00Z08DEC2017 -- [120] hr --> Valid Wed 00Z13DEC2017

MAX: 16.7 inch

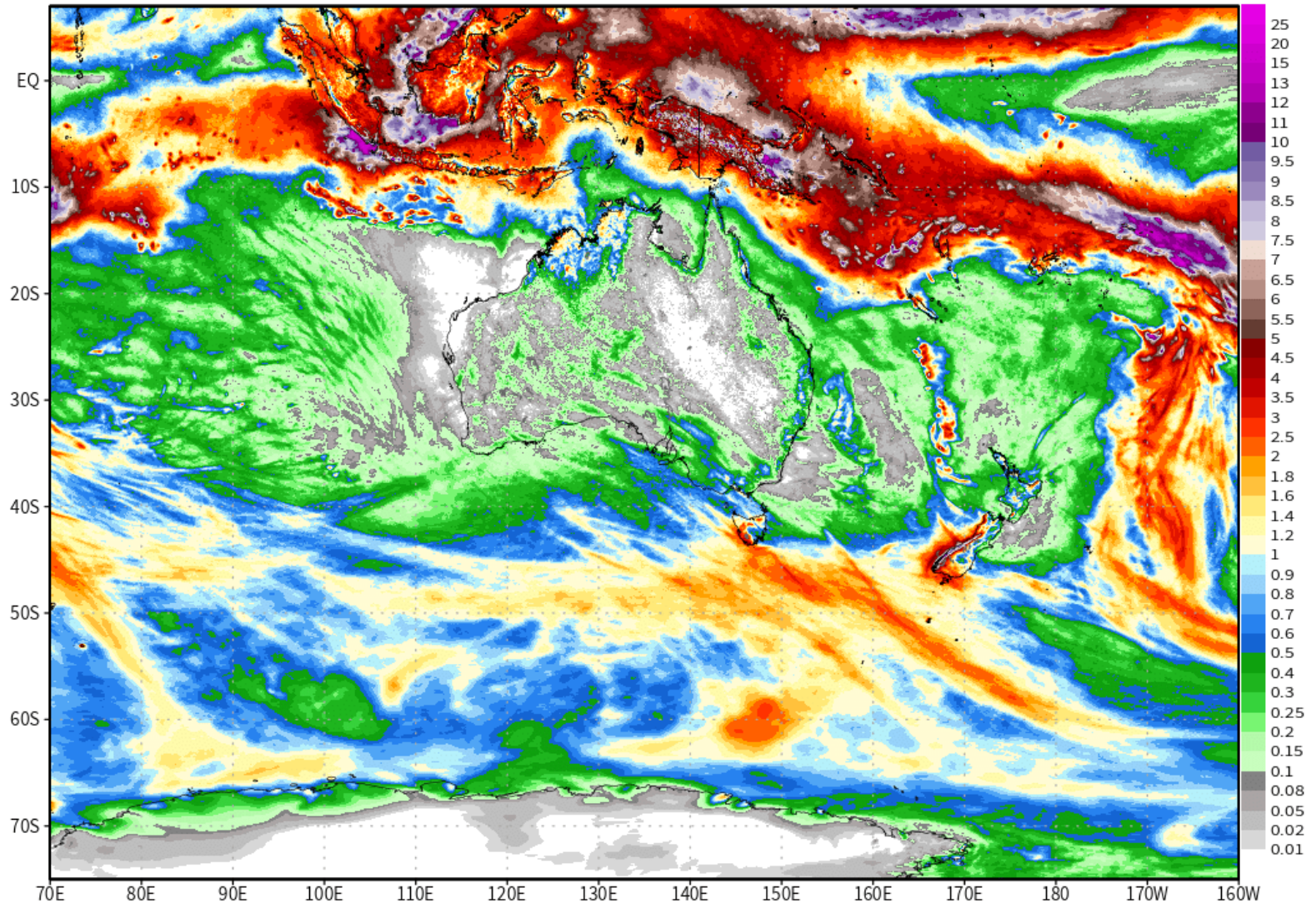


weather.us | [@ryanmaue](https://twitter.com/ryanmaue)

6-10 ALL OF AUS IS DRY

ECMWF Total Precipitation [inch]
Init: 00Z08DEC2017 -- [240] hr --> Valid Mon 00Z18DEC2017

MAX: 26.0 inch

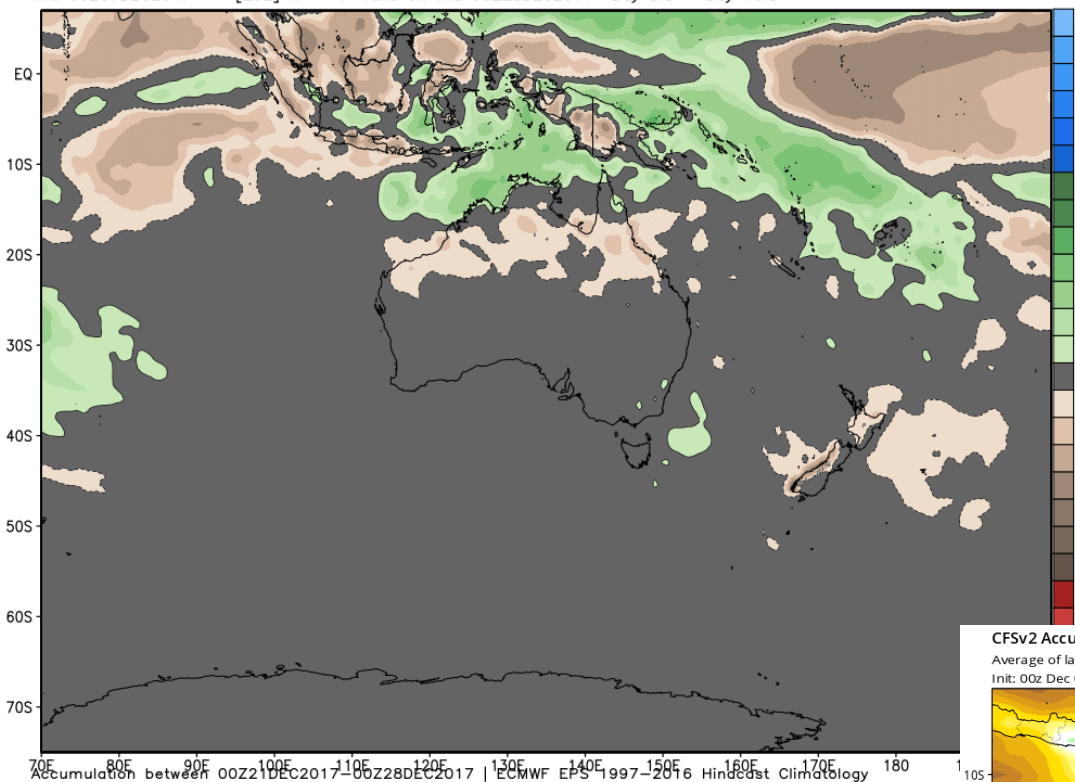


This service is based on data and products of the European Centre for Medium-range Weather Forecasts (ECMWF)

weather.us | @ryanmaue

ECMWF EPS Ensemble Mean 7-day Avg Precipitation Anomaly [inch]
Init: 00Z07DEC2017 -- [252] hr --> Valid on Thu 00Z28DEC2017 Day 3.5 - Day 10.5

Min|Max Anom: -5.6 | 3.8 inch

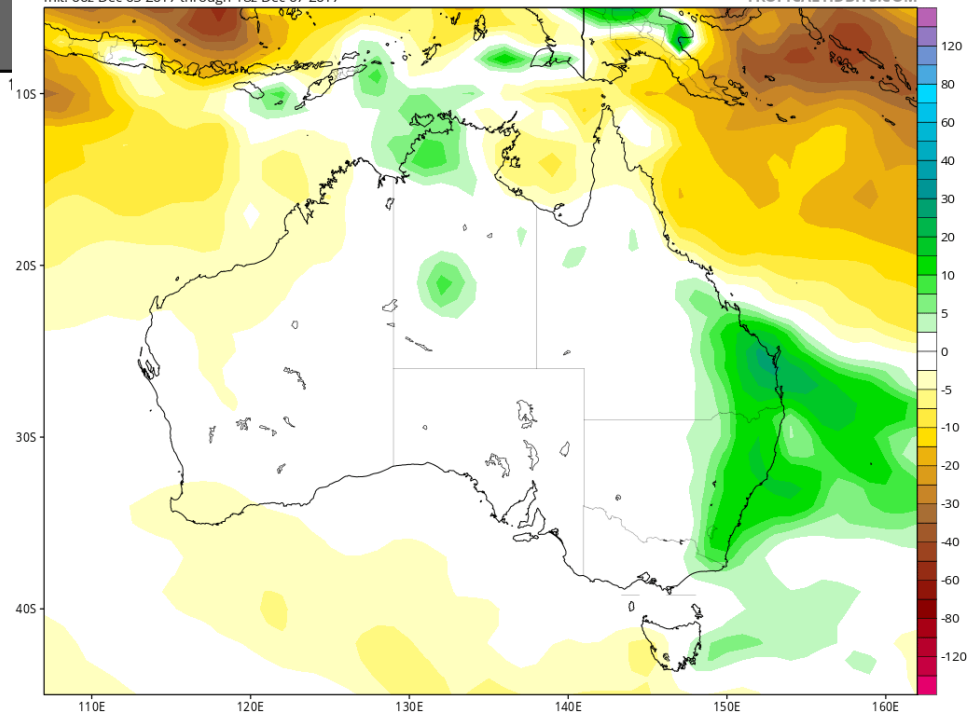


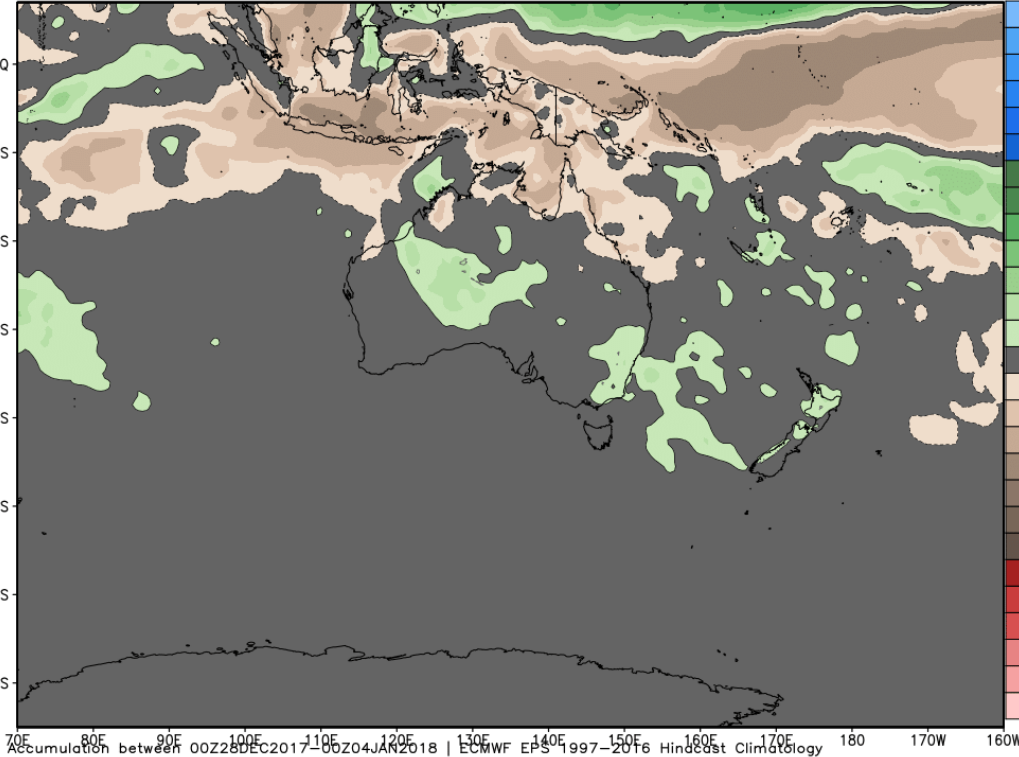
CFSv2 Accumulated Precip. Anomaly (mm) from 18z21Dec2017 to 18z28Dec2017 (Days 15-21)

Average of last 48 forecasts (12 runs x 4 members)

Init: 00z Dec 05 2017 through 18z Dec 07 2017

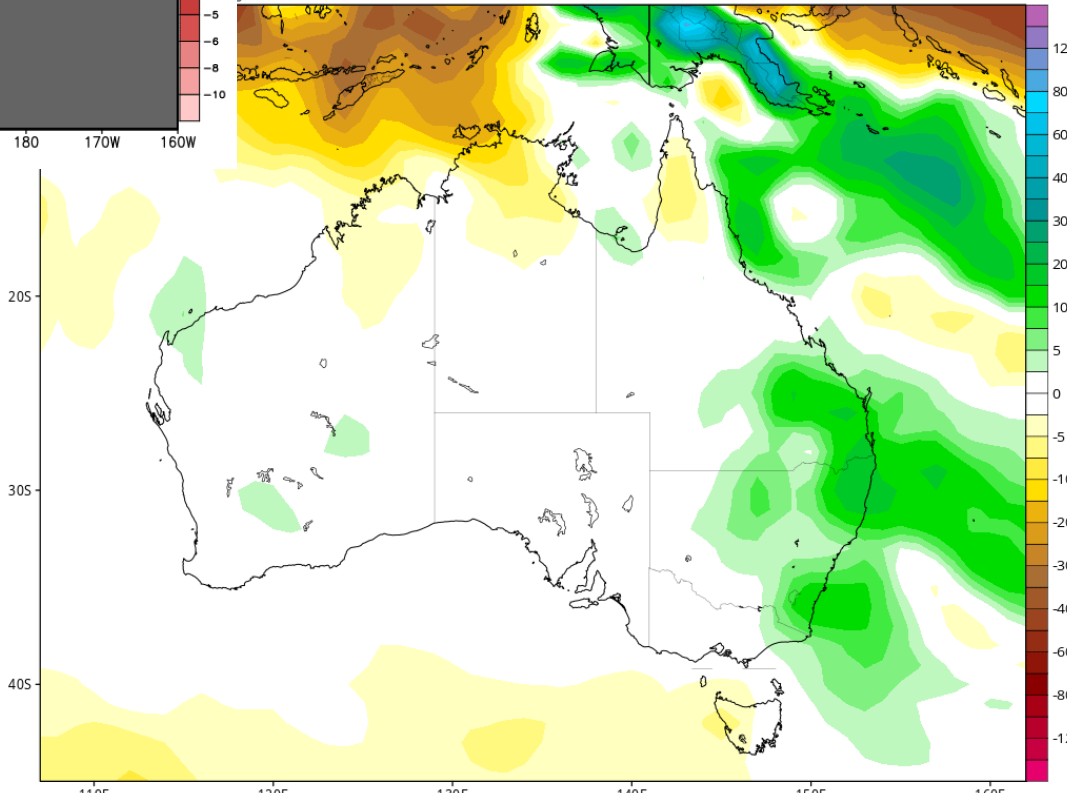
TROPICALTIDBITS.COM





Precip. Anomaly (mm) from 18z28Dec2017 to 18z04Jan2018 (Days 22-28)
(12 runs x 4 members)
High 18z Dec 07 2017

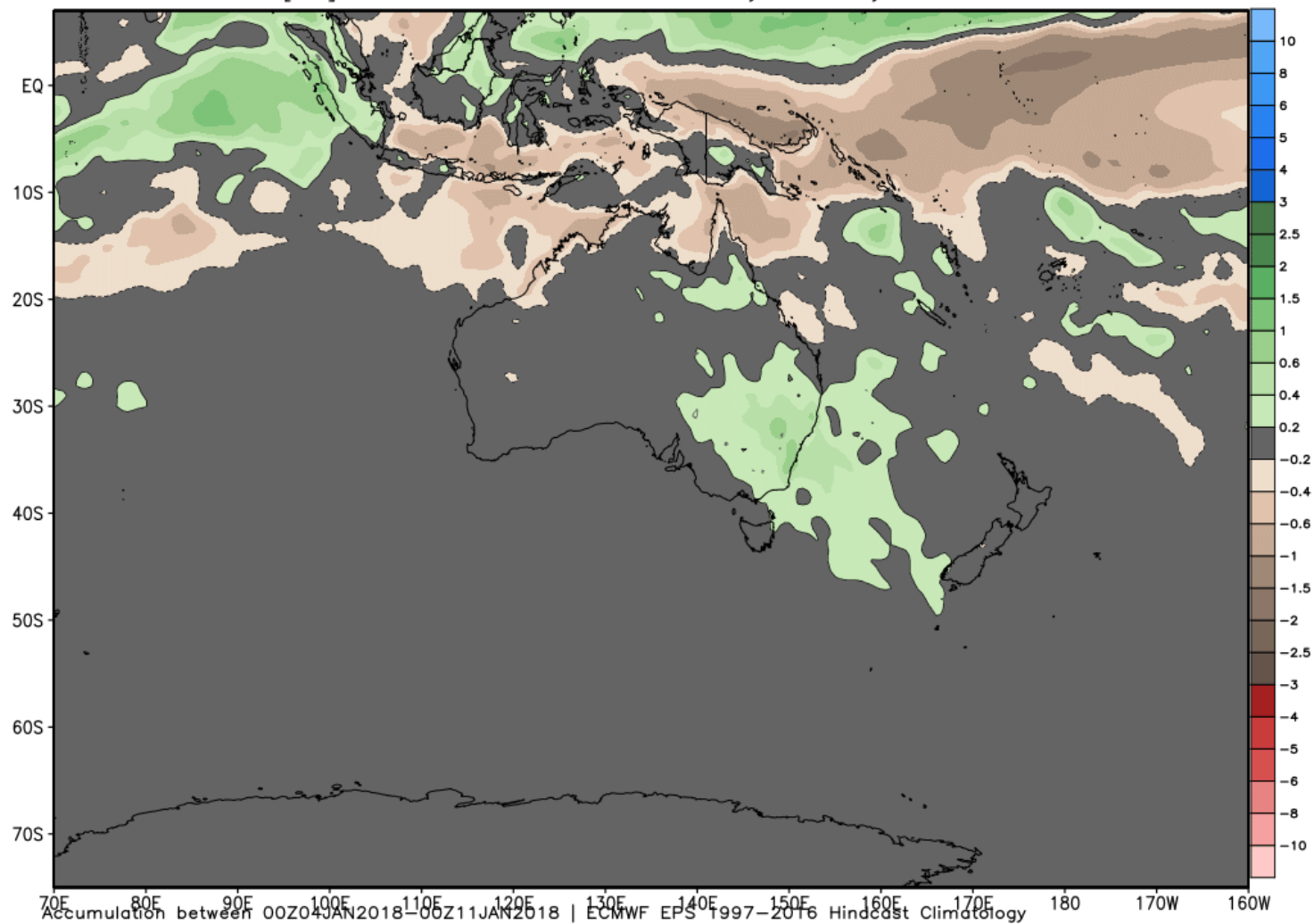
TROPICALTIDBITS.COM



ECMWF EPS Ensemble Mean 7-day Avg Precipitation Anomaly [inch]

Min|Max Anom: -1.8 | 1.7 inch

Init: 00Z07DEC2017 -- [420] hr --> Valid on Thu 00Z11JAN2018 Day 10.5 - Day 17.5



**Sometimes I wonder whether the world is
being run by smart people who are putting
us on, or by imbeciles who really mean it.**

MARK TWAIN

