

**US and SOUTH AMERICA
GRAIN WEATHER
ISSUES**

**as of FRIDAY
15 SEPT 2017**



LOCATED in Richmond VA

Featured frequently on AGRI-MONEY

EMAIL WXRISK@VERZION .NET



@WXRISK.COM



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

wxrisk@gmail.com

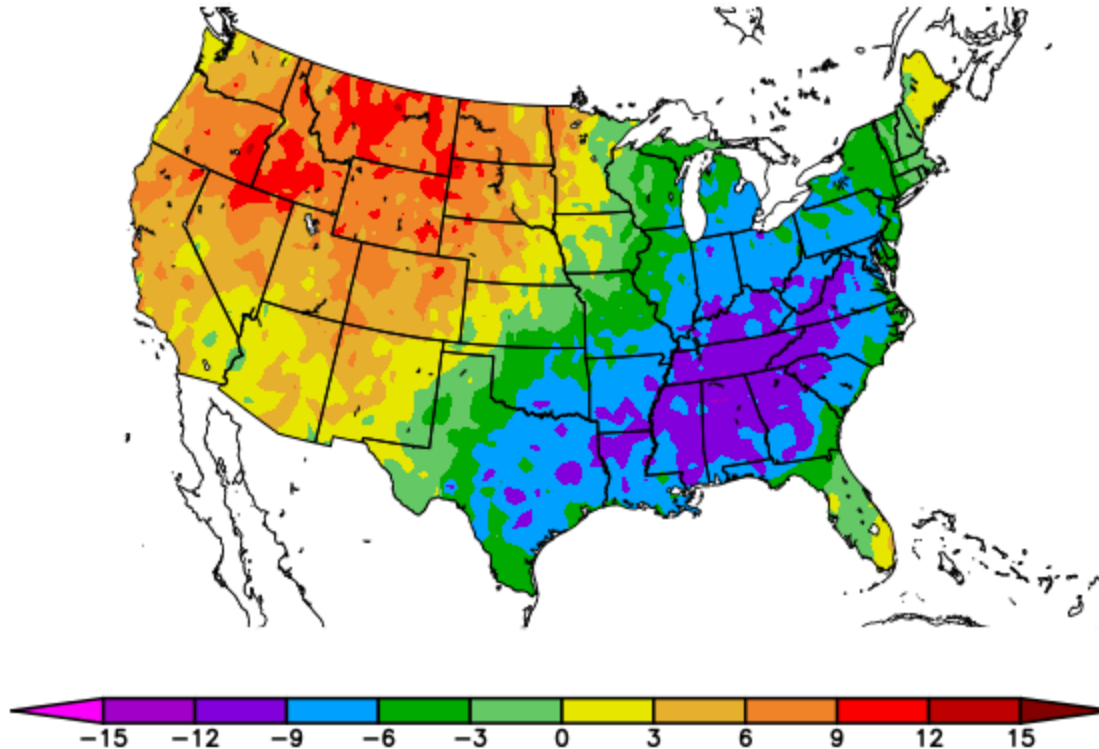


Who we are

WxRisk is a private, subscription, Weather Forecasting Company. Founded in 1998, the company specializes in providing the most detailed and accurate weather forecasts for Days 3 through 30, as well as seasonal forecasts, for Grain Traders, Farmers, Energy Traders, Construction companies, Oil and Heat associations, Wineries and other businesses impacted by weather. Geographic areas covered include, but are not limited to: The Middle Atlantic region of the U.S., all of the Continental U.S., South America, Europe, Ukraine/Southern and western Russia, Kazakhstan, India, Australia & China. Current and previous clients include large and mid-size commodity trading houses, energy firms, gas and propane companies, ski resorts, individual farmers and business involved in providing transportation and construction services throughout the world.

TEMP ANOMALIES LAST 7 DAYS.. much cooler than Normal

Departure from Normal Temperature (F)
9/7/2017 - 9/13/2017

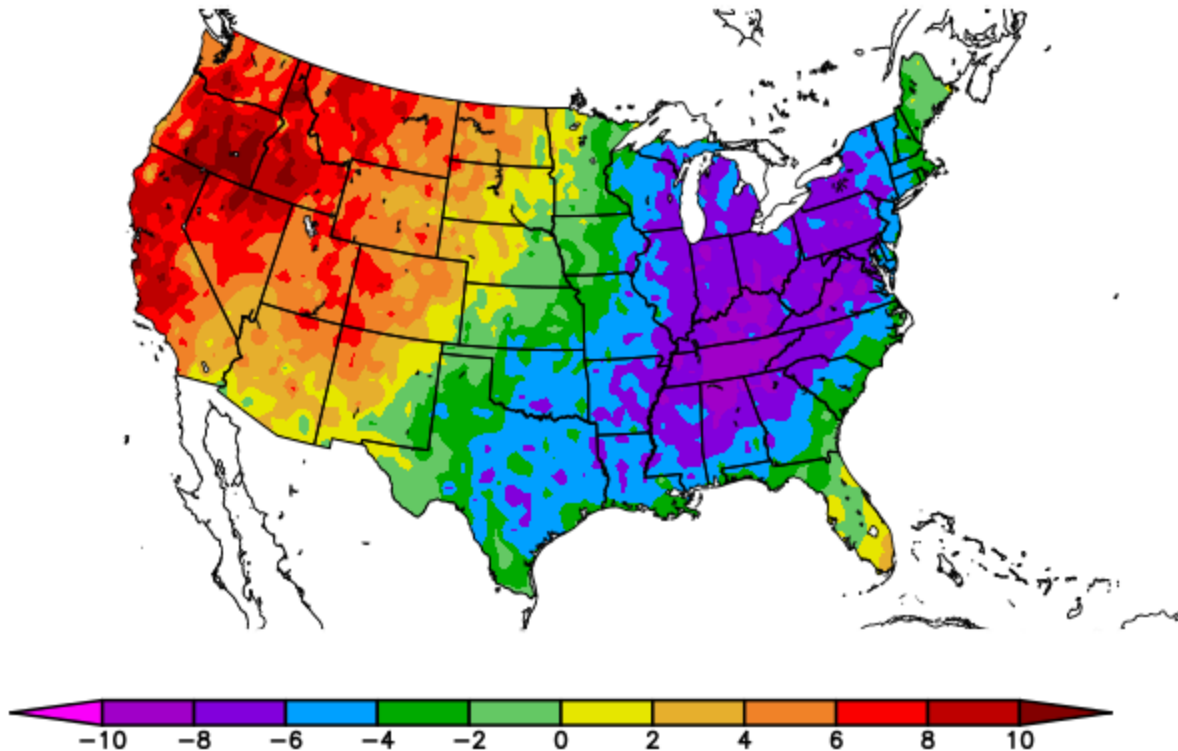


Generated 9/14/2017 at HPRCC using provisional data.

NOAA Regional Climate Centers

TEMP ANOMALIES since SEPT 1.. much cooler than Normal

Departure from Normal Temperature (F)
9/1/2017 - 9/12/2017



Generated 9/13/2017 at HPRCC using provisional data.

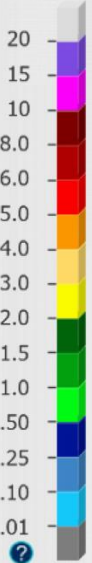
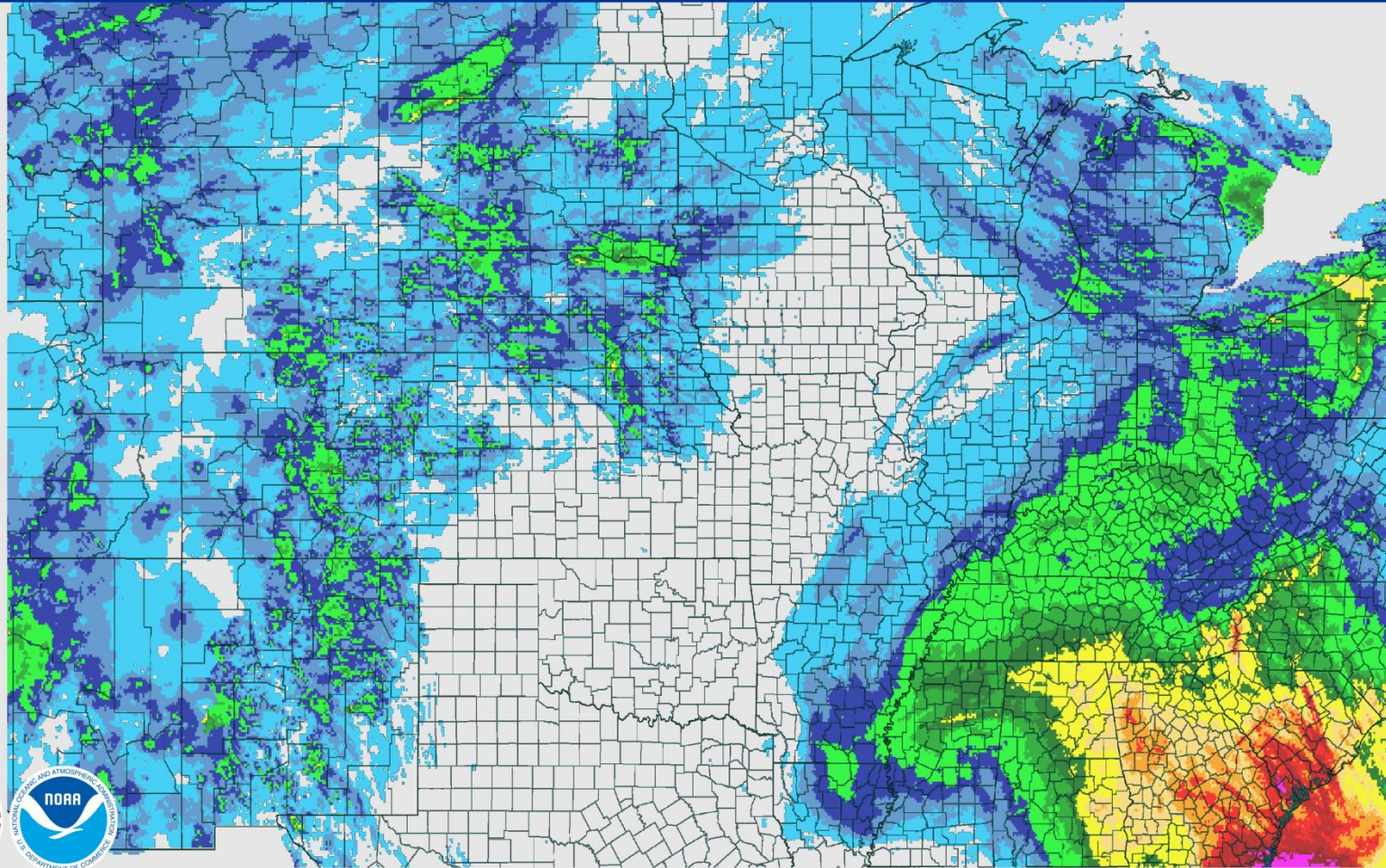
NOAA Regional Climate Centers

RAINFALL PAST 7 DAYS—

September 14, 2017 7-Day Observed Precipitation

Created on: September 15, 2017 - 04:42 UTC

Valid on: September 14, 2017 12:00 UTC

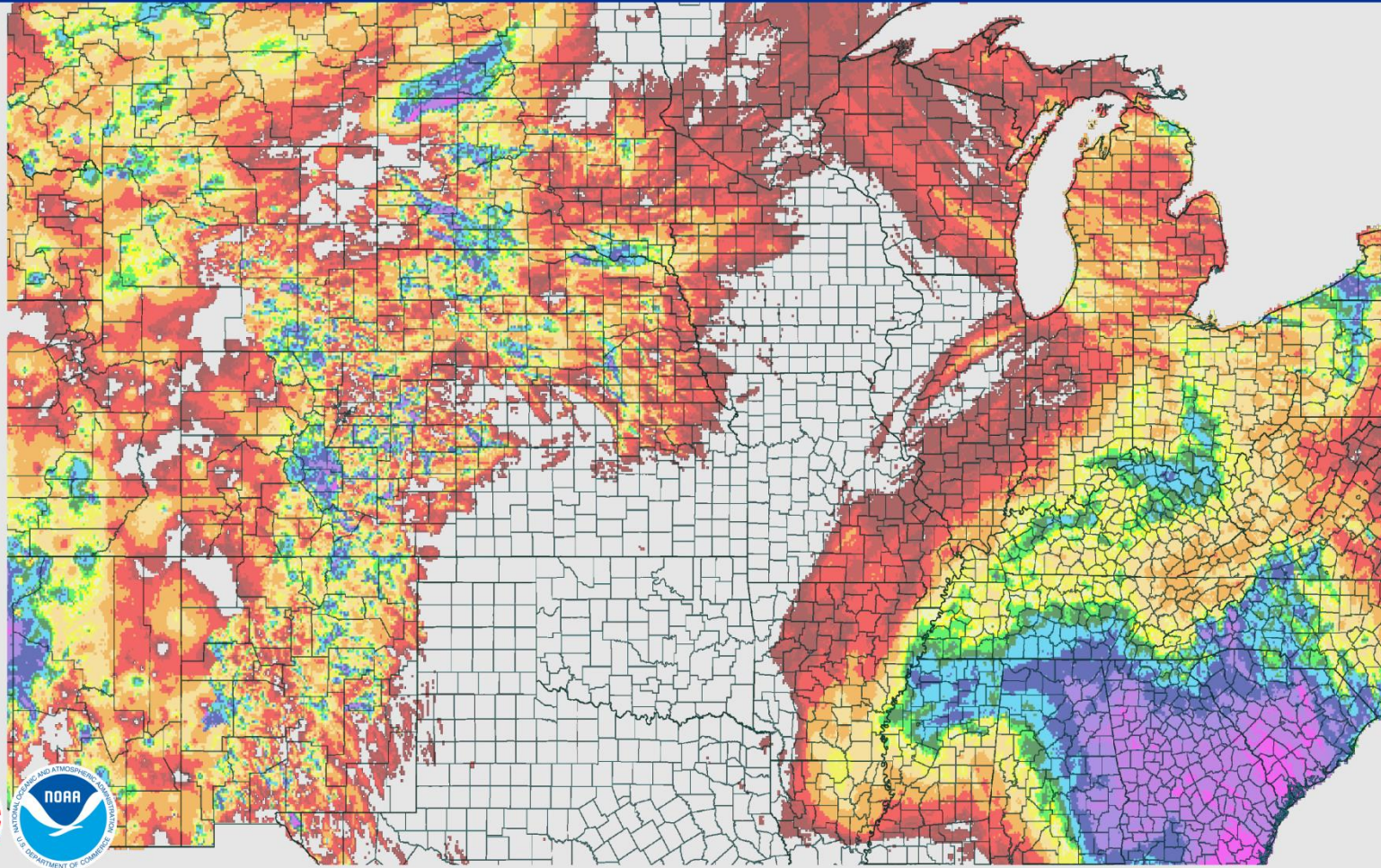


PRECIP ANOMALIES PAST 7D-

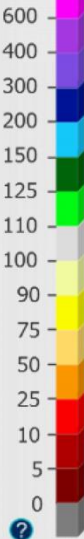
September 14, 2017 7-Day Percent Precipitation

Created on: September 15, 2017 - 04:43 UTC

Valid on: September 14, 2017 12:00 UTC

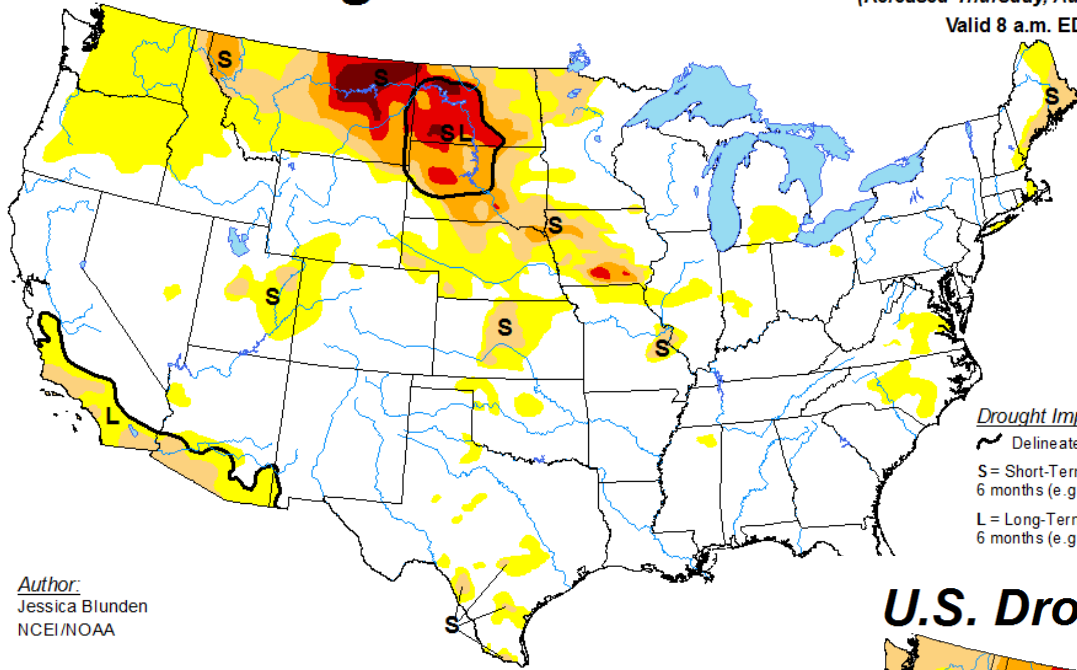


Percent



U.S. Drought Monitor

August 15, 2017
 (Released Thursday, Aug. 17, 2017)
 Valid 8 a.m. EDT



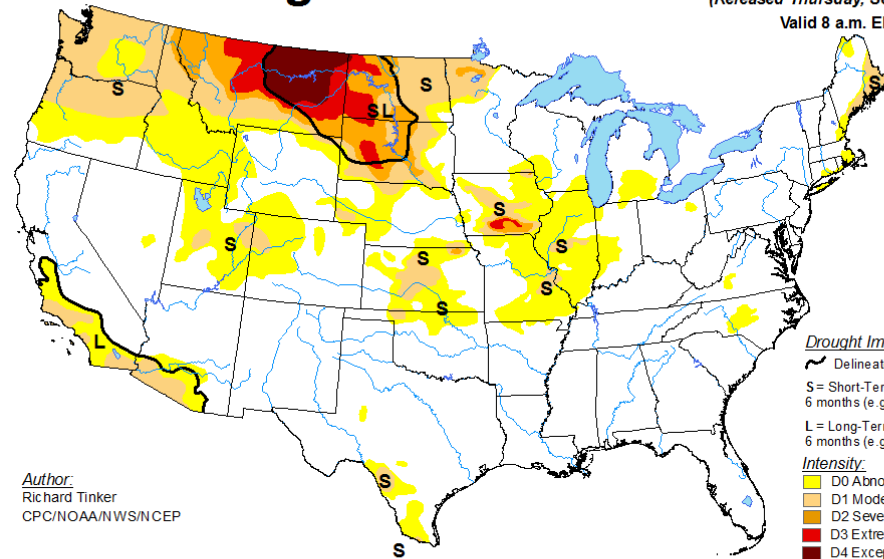
Drought Impact Types:

- ~ Delineates dominant impacts
- S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

Author:
 Jessica Blunden
 NCEI/NOAA

U.S. Drought Monitor

September 12, 2017
 (Released Thursday, Sep. 14, 2017)
 Valid 8 a.m. EDT



Drought Impact Types:

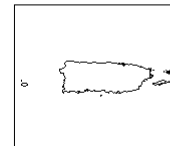
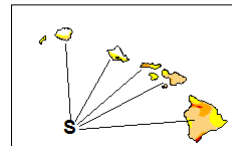
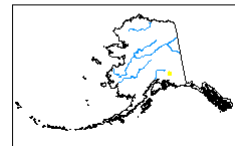
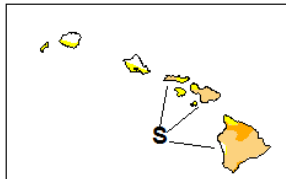
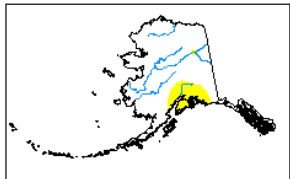
- ~ Delineates dominant impacts
- S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

Intensity:

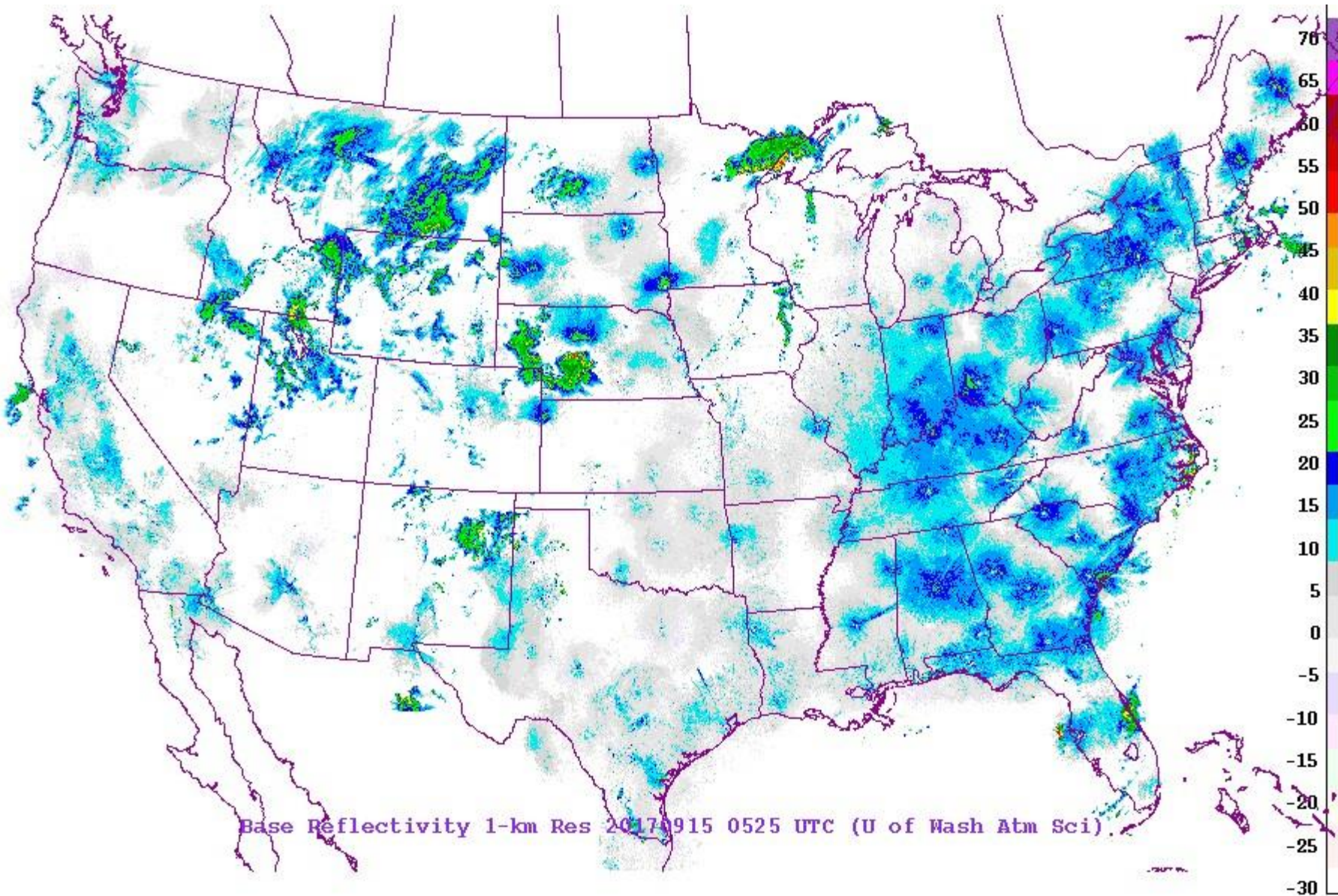
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

Author:
 Richard Tinker
 CPC/NOAA/NWS/NCEP

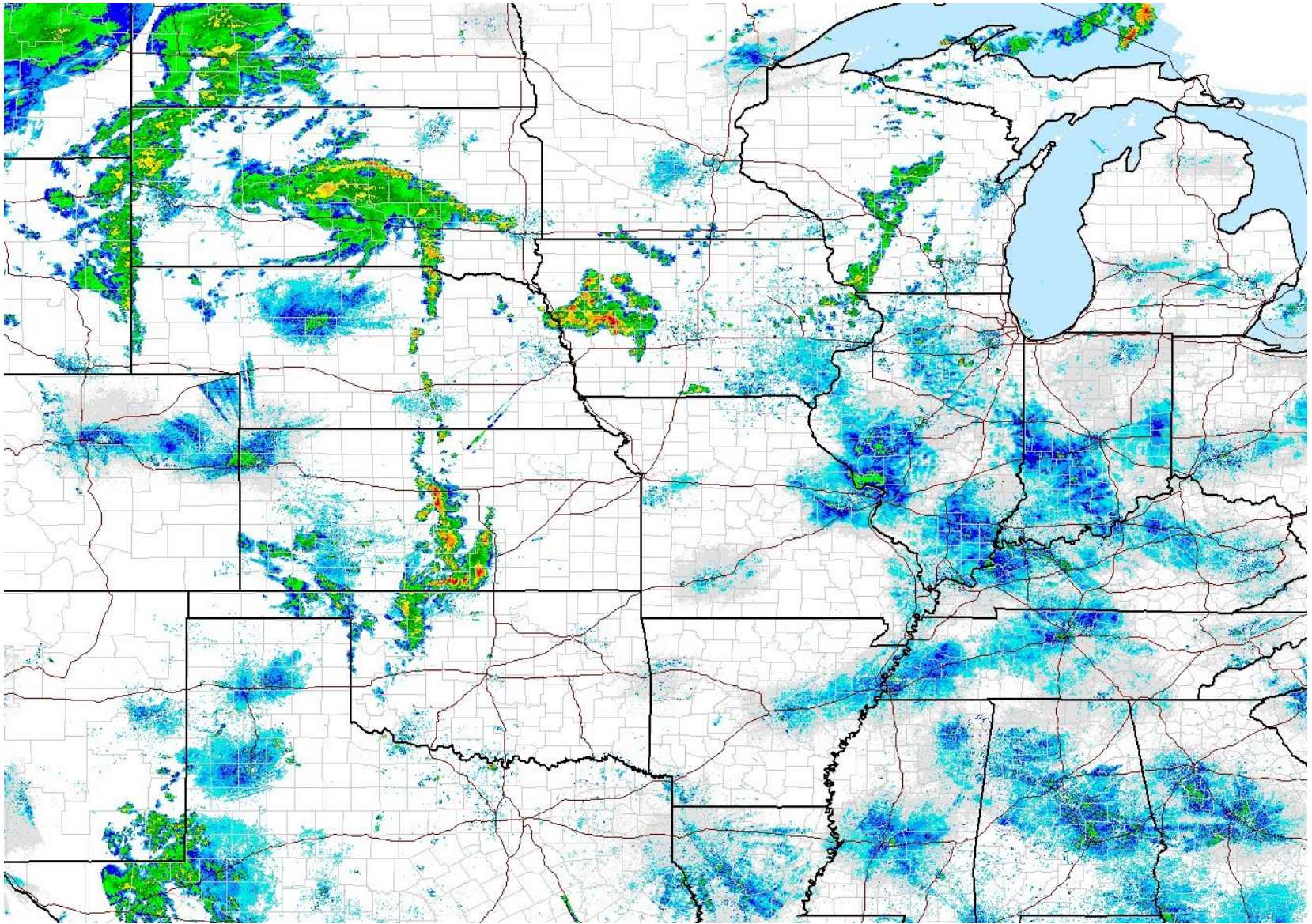
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.



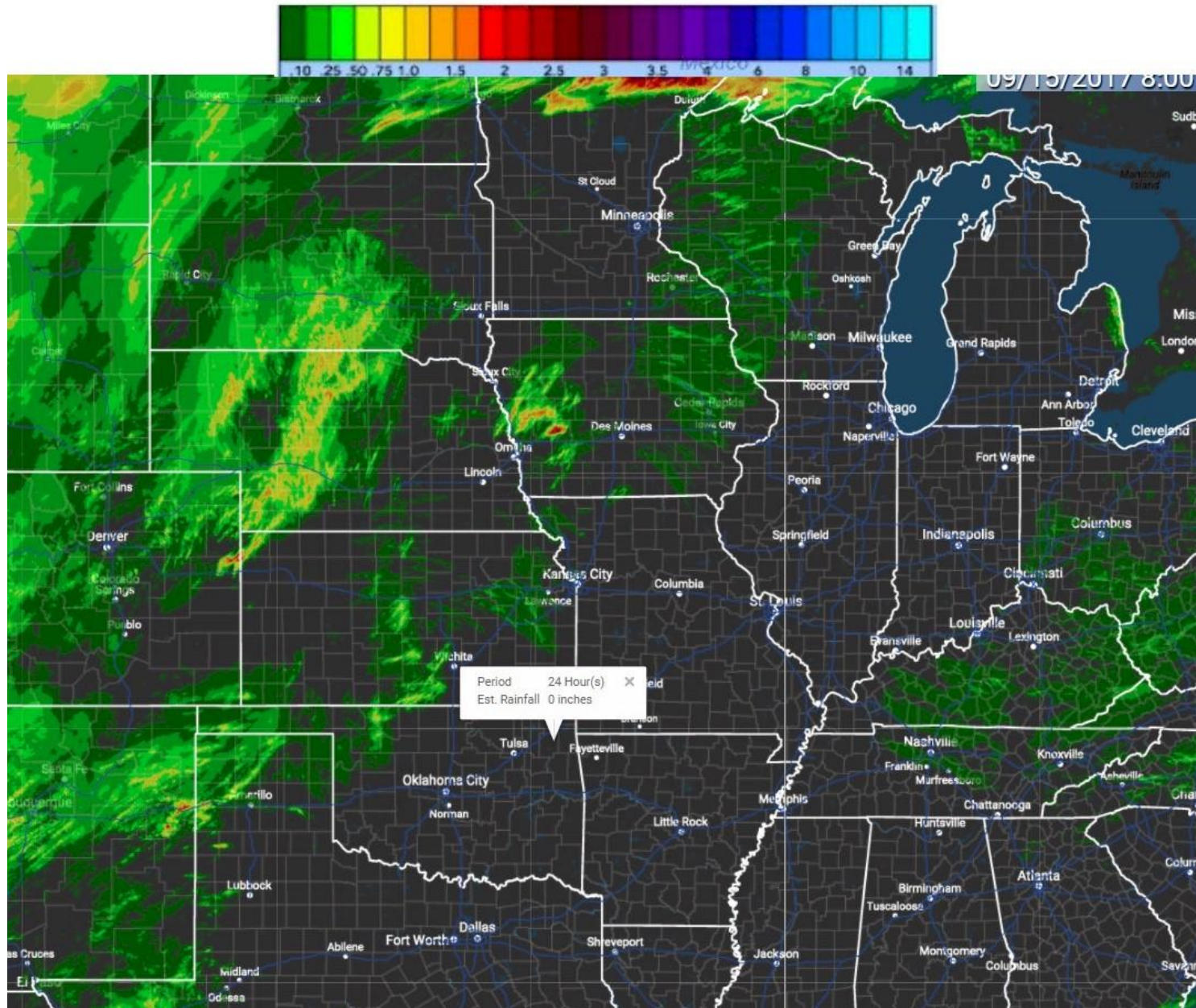
RADAR 12 AM FRIDAY



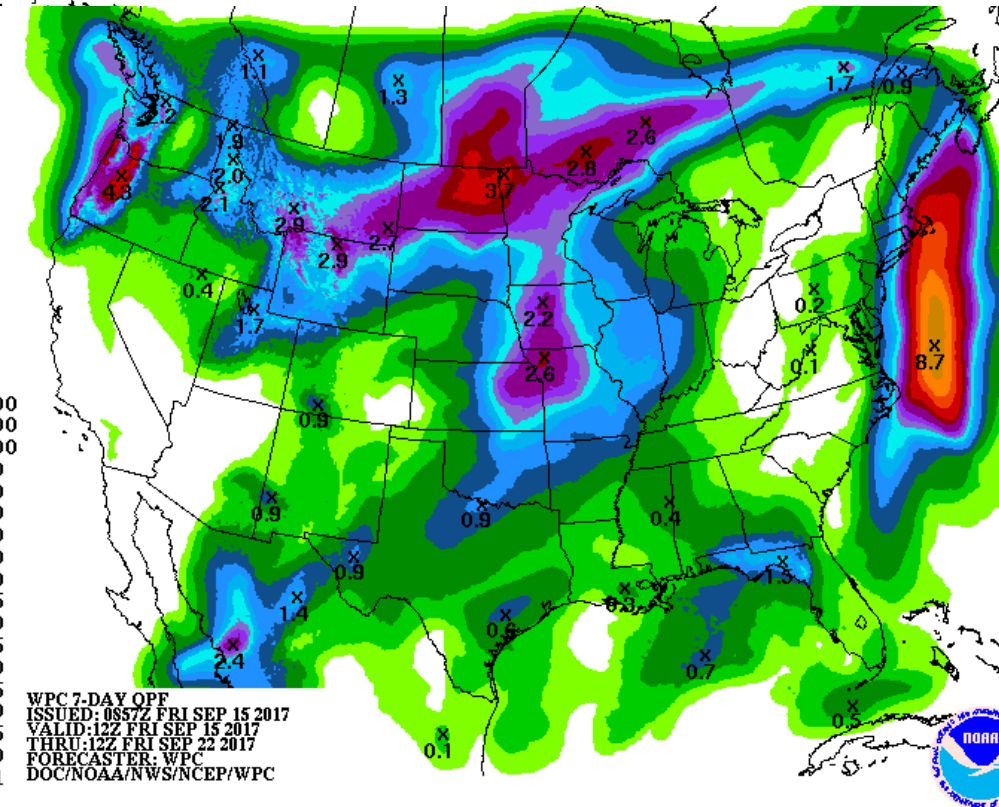
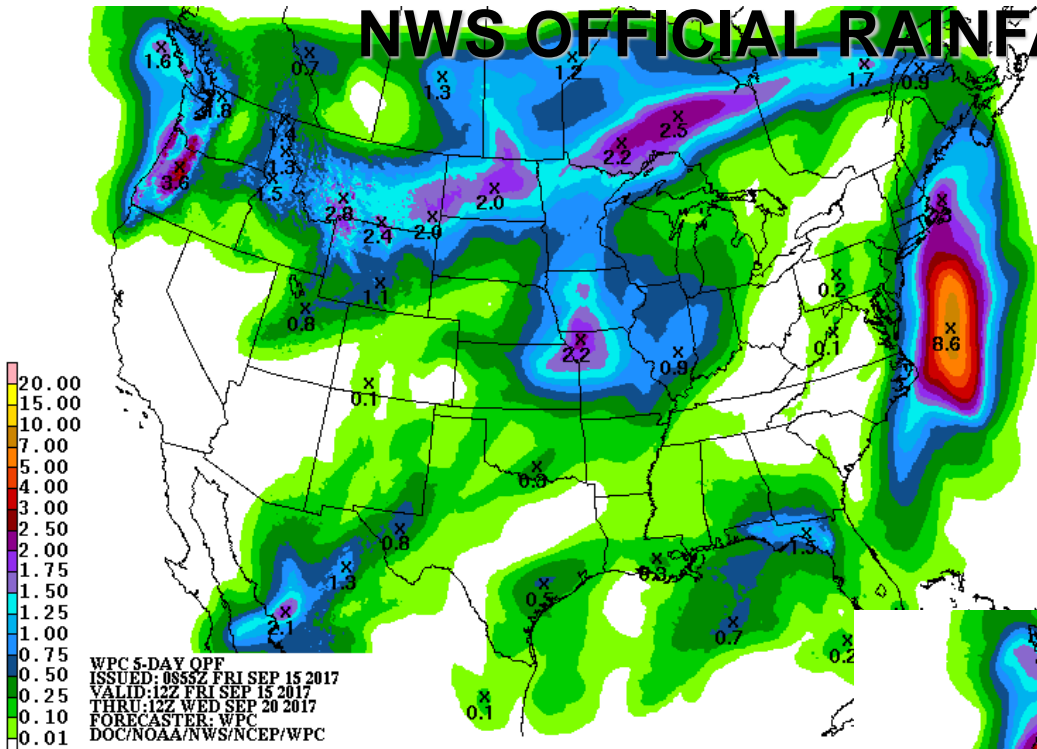
RADAR 7AM CDT FRIDAY



RAINFALL AS OF SEPT 15-



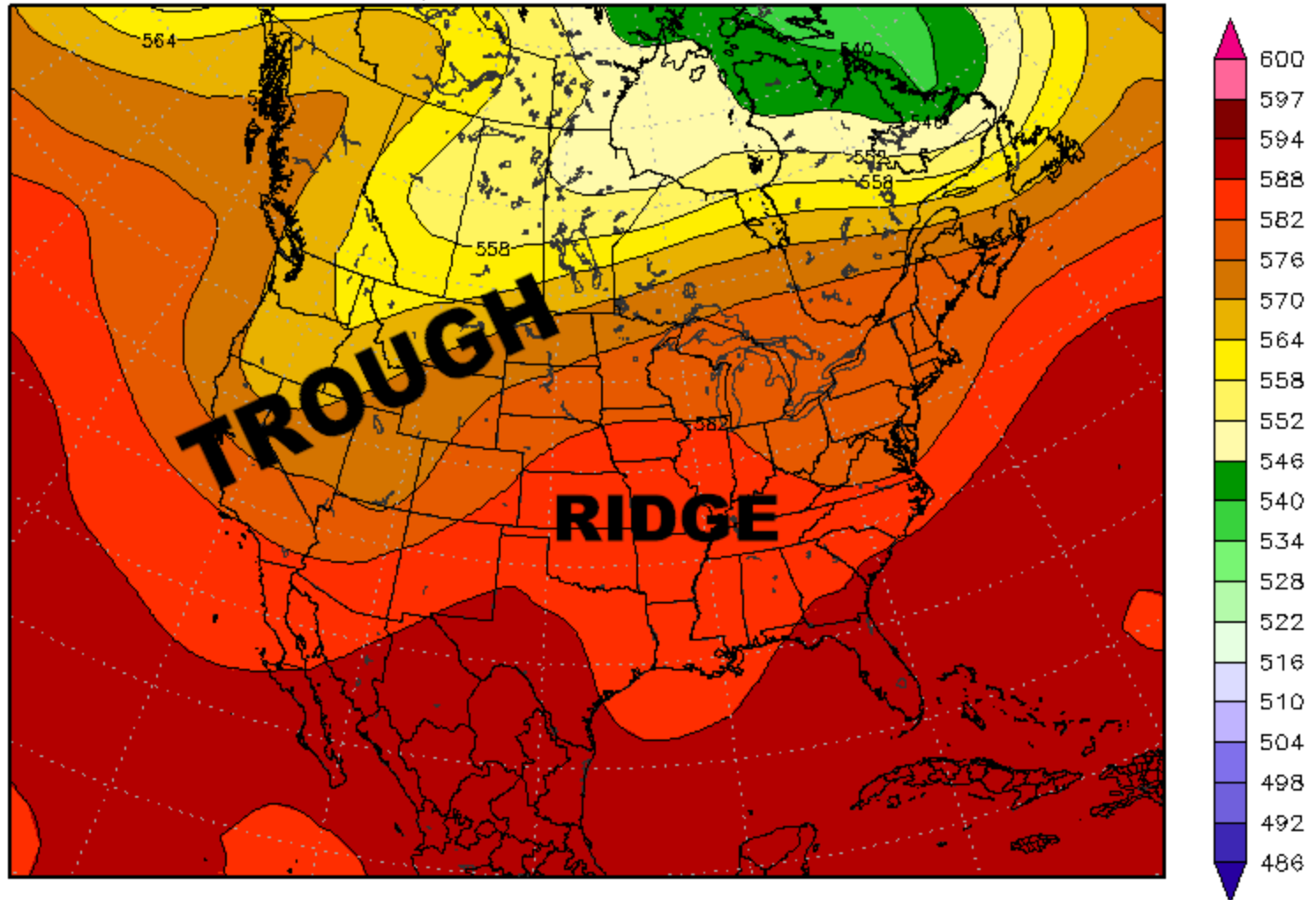
NWS OFFICIAL RAINFALL NEXT 7 DAYS



500mb map sept 15

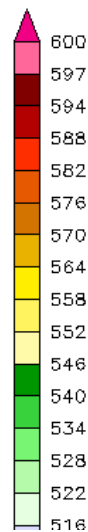
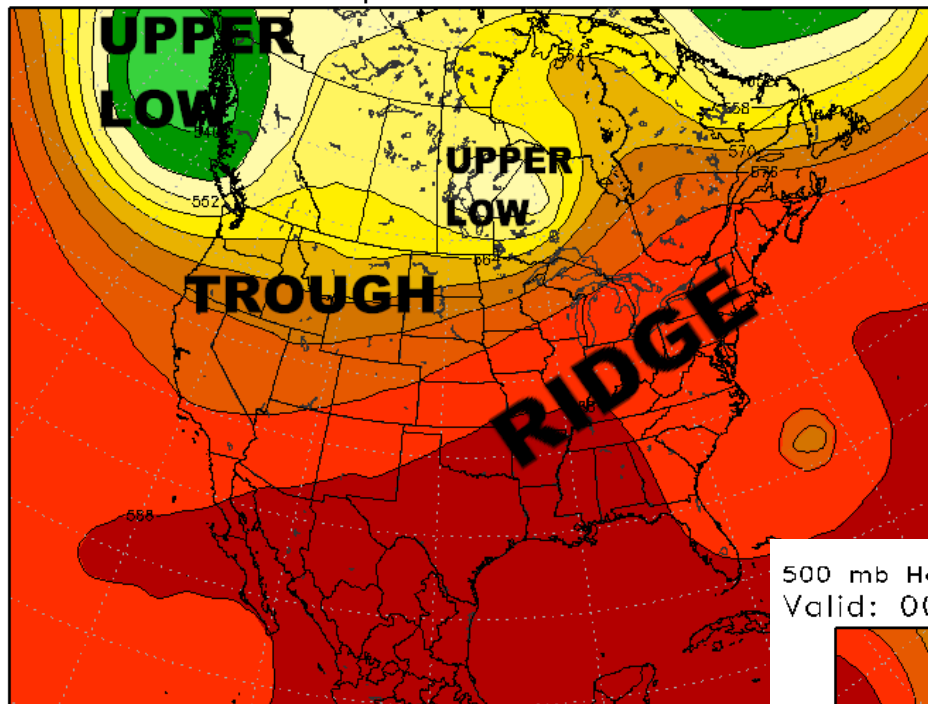
500 mb Height
Valid: 03z Fri 15 Sep 2017

ECMWF
Hour: 3



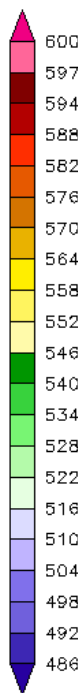
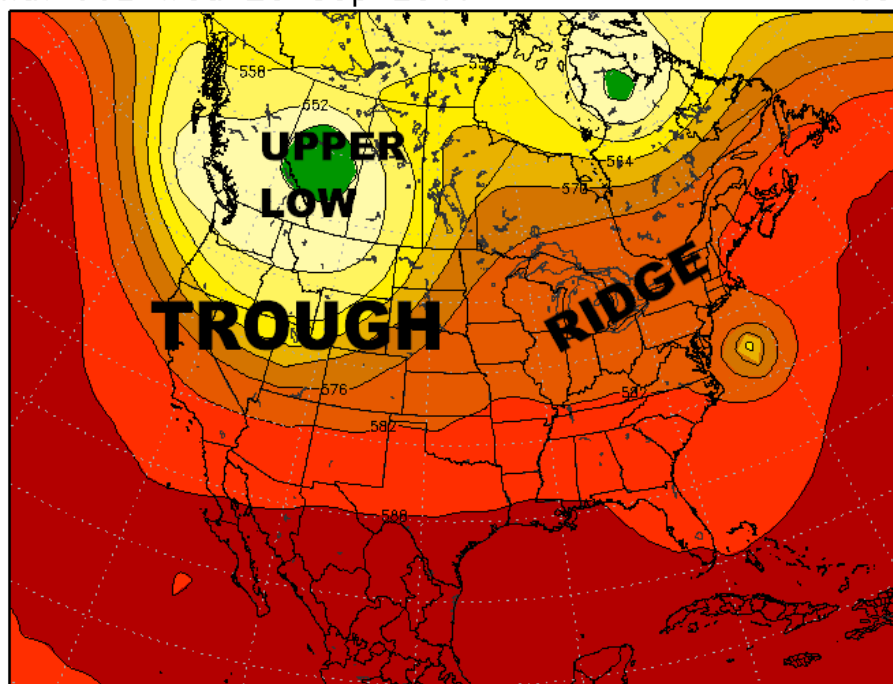
500 mb Height
Valid: 00z Mon 18 Sep 2017

ECMWF
Hour: 72



500 mb Height
Valid: 00z Wed 20 Sep 2017

ECMWF
Hour: 120



StormVistaWxModels.com

StormVistaWxModels.com

Init: 00z Fri 15 Sep 2017

NEXT 5 DAYS GFS LEFT EURO RIGHT GFS

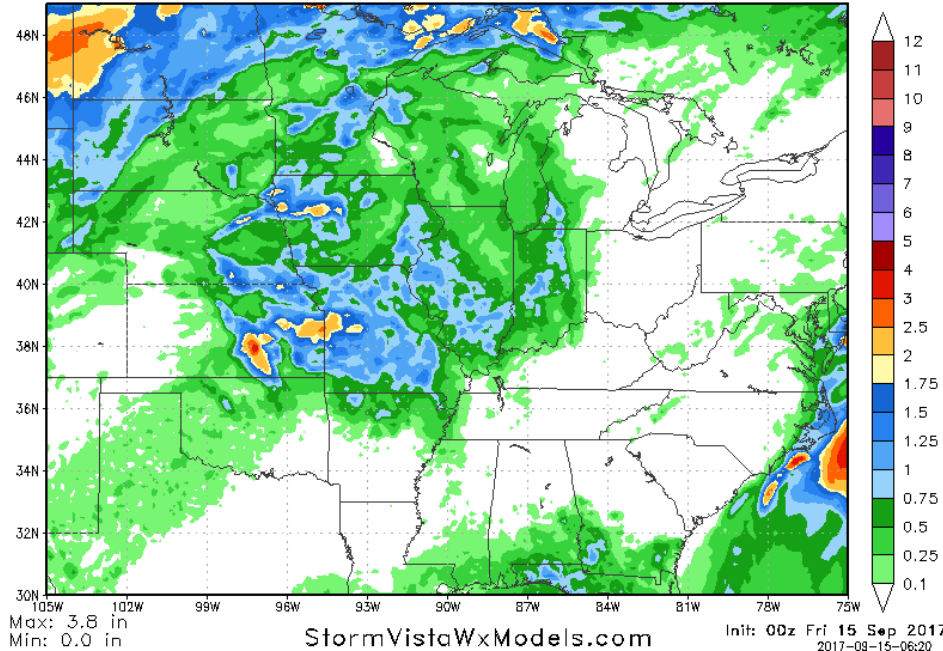
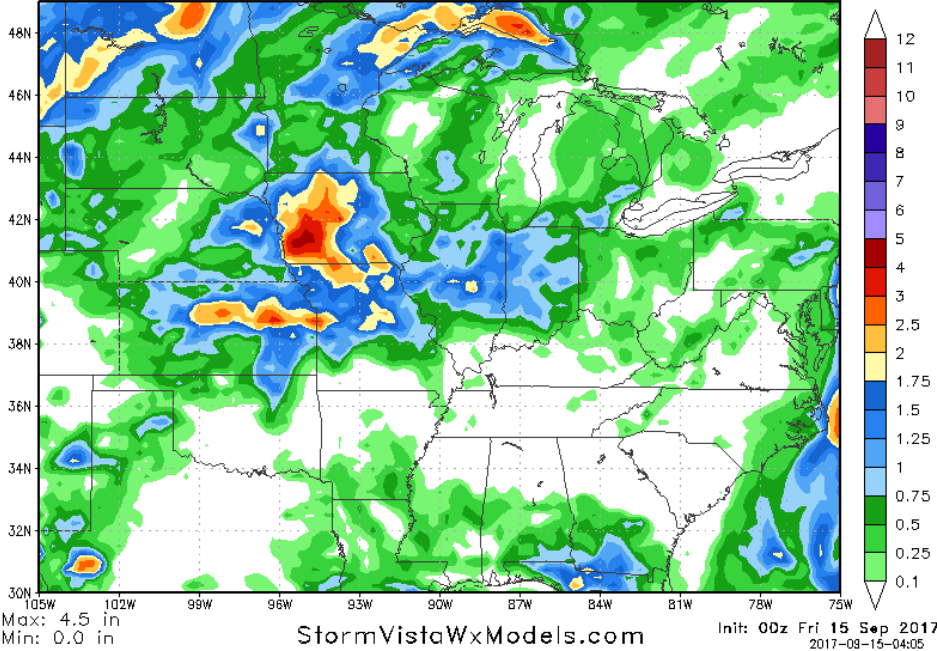
has more A LOT more rain over IA but otherwise models are in good agreement

120 Hour Total Precipitation (in)
Valid: 00z Fri 15 Sep 2017 - 00z Wed 20 Sep 2017

GFS-MAXRES
Hour: 0 - 120

120 Hour Total Precipitation (in)
Valid: 00z Fri 15 Sep 2017 - 00z Wed 20 Sep 2017

ECMWF-MAXRES
Hour: 0 - 120

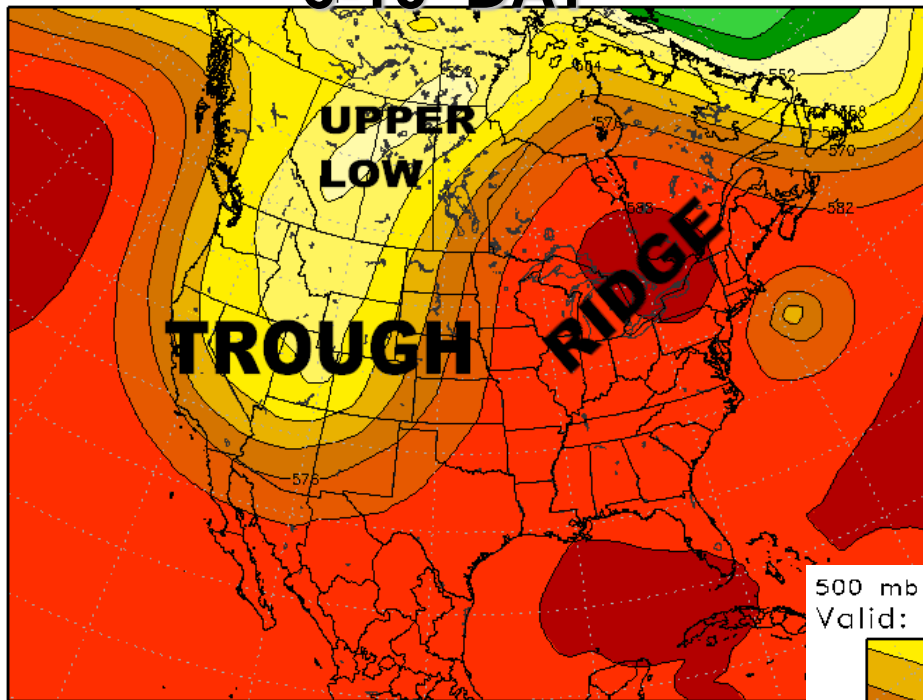


500 mb Height

Valid: 00z Fri 22 Sep 2017

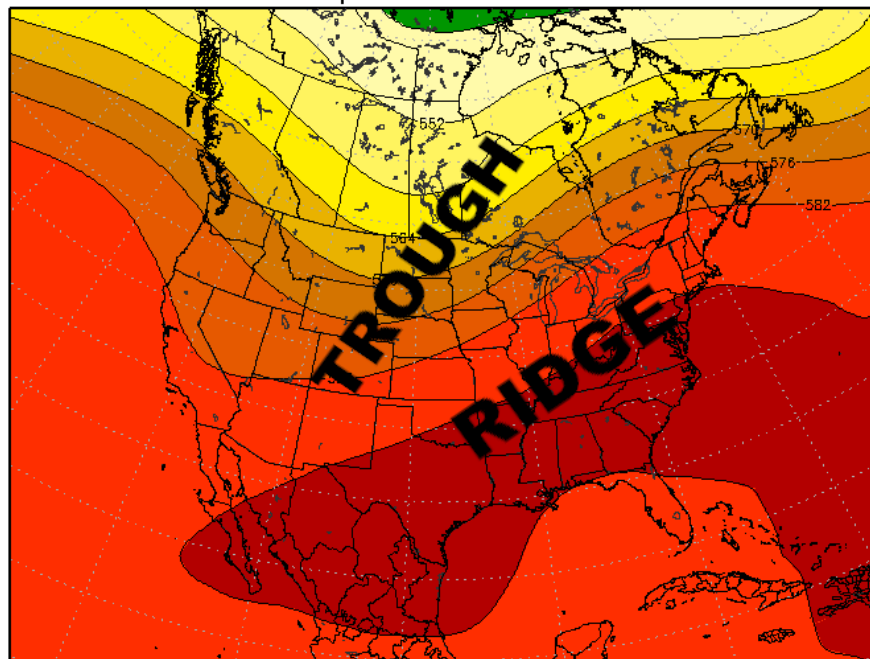
6-10 DAY

ECMWF
Hour: 168



500 mb Height
Valid: 00z Mon 25 Sep 2017

ECMWF-EP
Hour: 240



GRADS: COLA/IGES

StormVistaWxModels.com

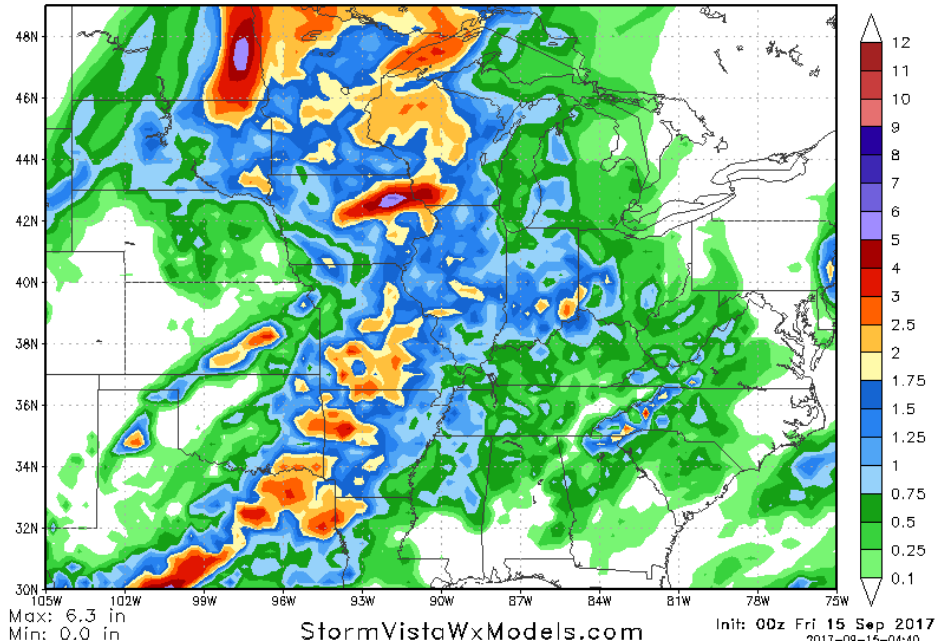
GRADS: COLA/IGES

StormVistaWxModels.com

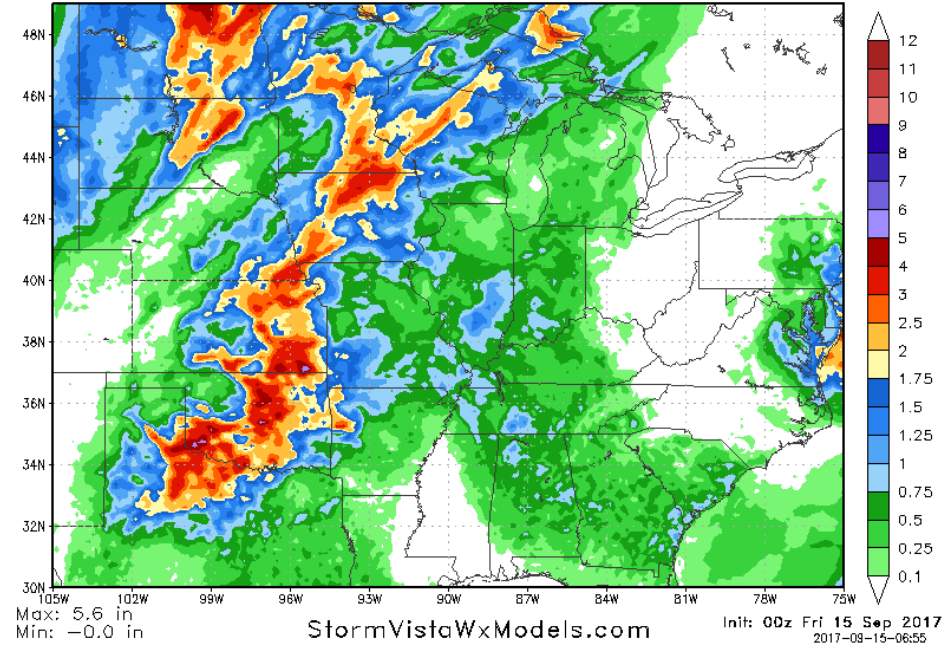
Init: 00z Fri 15 Sep 2017
2017-09-15-03:40

6-10 DAY RAINFALL ... strong model agreement with widespread significant/ hvy rains over much fo ND SD MN WI IA ... GFS has more rain over MO ARK se OK central TX.. EURO slower with rain over eastern KS central OK TX Panhandle

120 Hour Total Precipitation (in) GFS-MAXRES
Valid: 00z Wed 20 Sep 2017 - 00z Mon 25 Sep 2017 Hour: 120 - 240

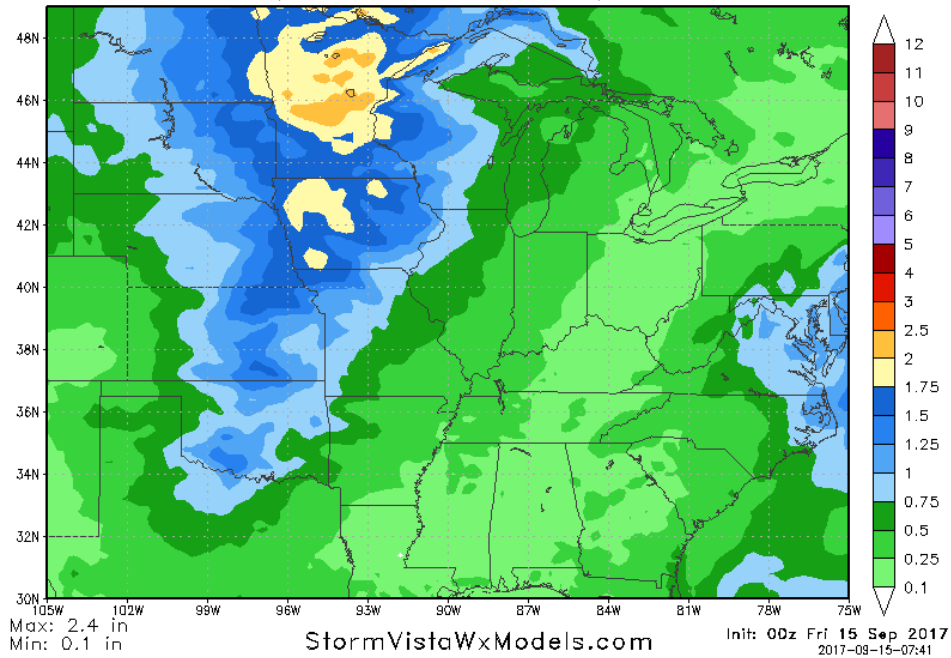


120 Hour Total Precipitation (in) ECMWF-MAXRES
Valid: 00z Wed 20 Sep 2017 - 00z Mon 25 Sep 2017 Hour: 120 - 240

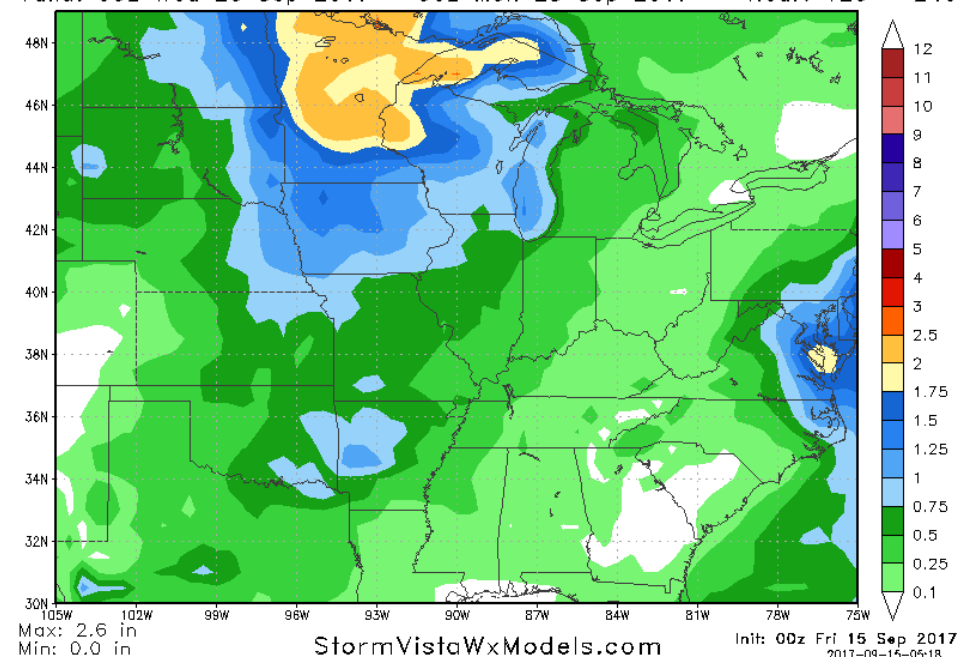


6-10 DAY ENSEMBLES – GOOD AGREEMENT.

120 Hour Total Precipitation (in) ECMWF-ENS-MAXRES
Valid: 00z Wed 20 Sep 2017 – 00z Mon 25 Sep 2017 Hour: 120 – 240



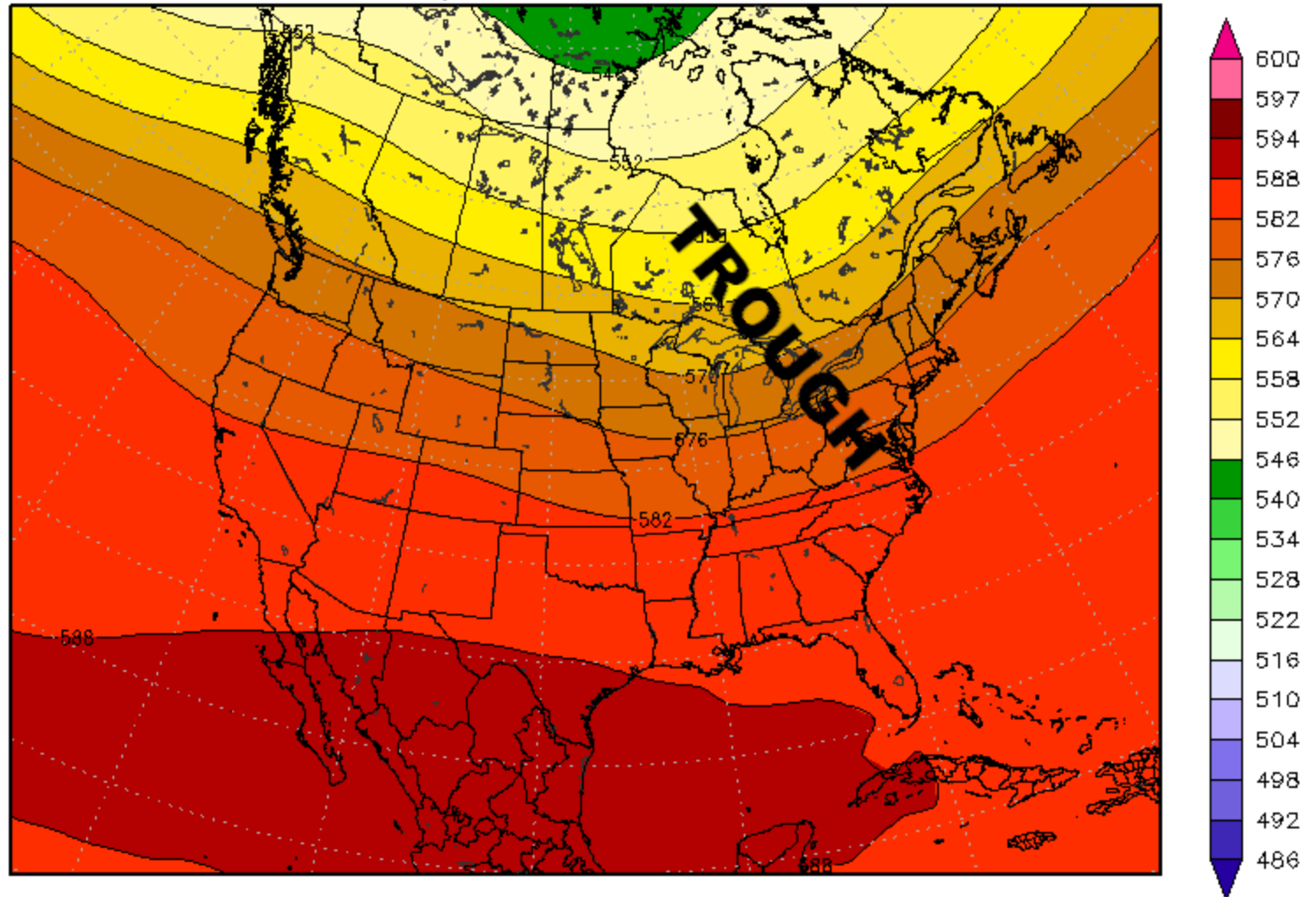
120 Hour Total Precipitation (in) GFS-ENS-MAXRES
Valid: 00z Wed 20 Sep 2017 – 00z Mon 25 Sep 2017 Hour: 120 – 240



500 mb map shows trough moves into midwest and northeast US

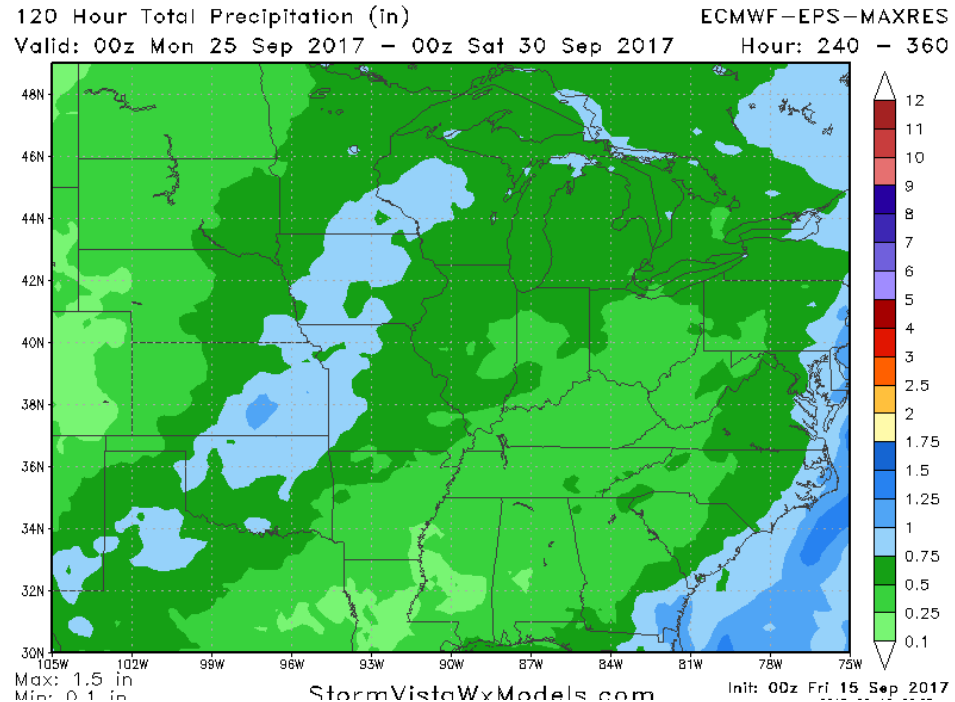
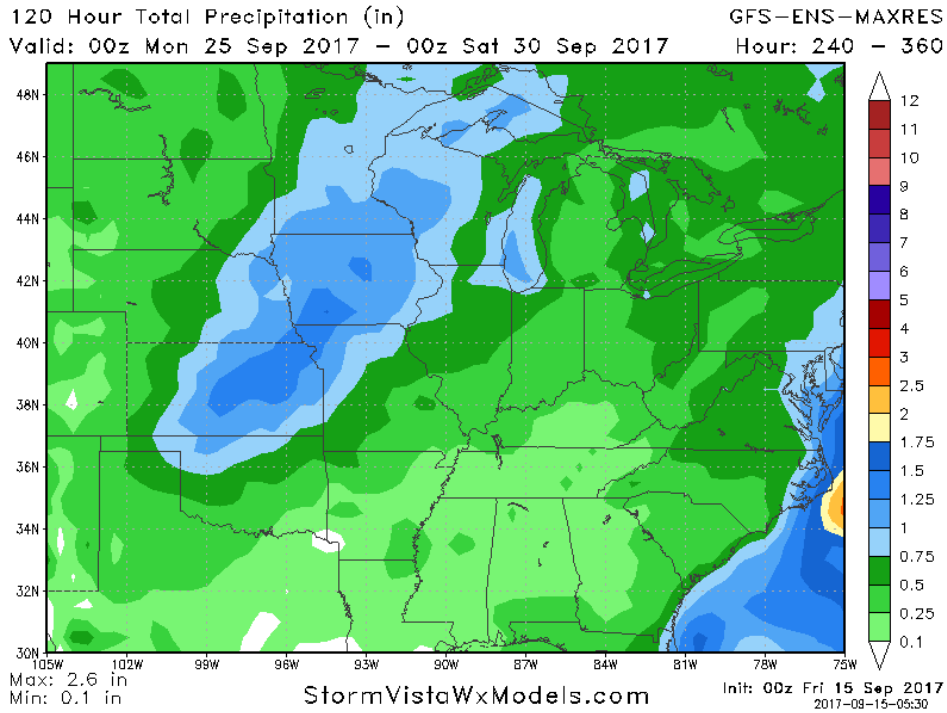
500 mb Height
Valid: 18z Thu 28 Sep 2017

ECMWF-EPS
Hour: 330



11-15 DAY ENSEMBLES

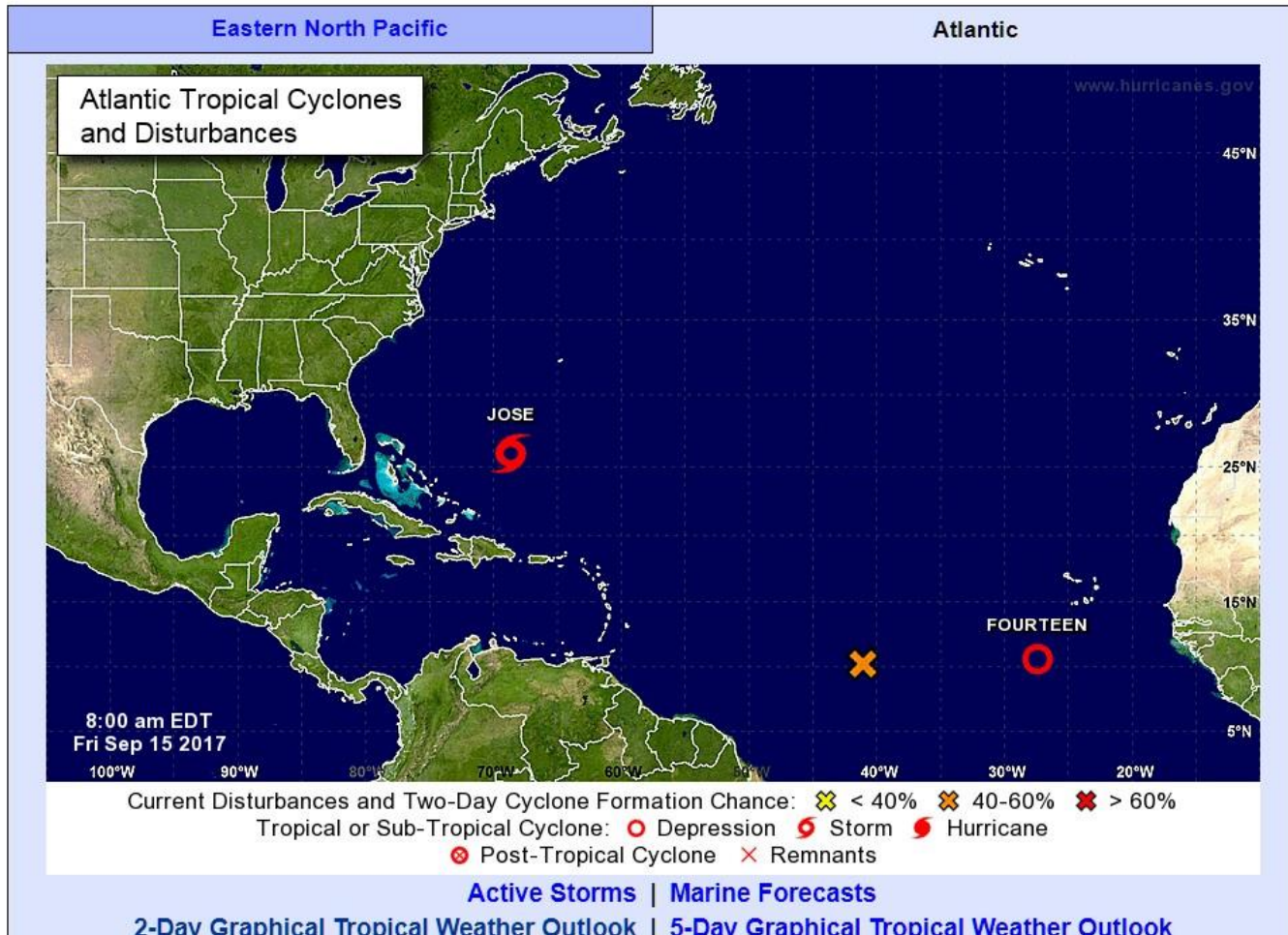
GFS RAINFALL LEFT EURO RIGHT still a rather wet pattern for late SEPT



[Top News of the Day... view past news](#)

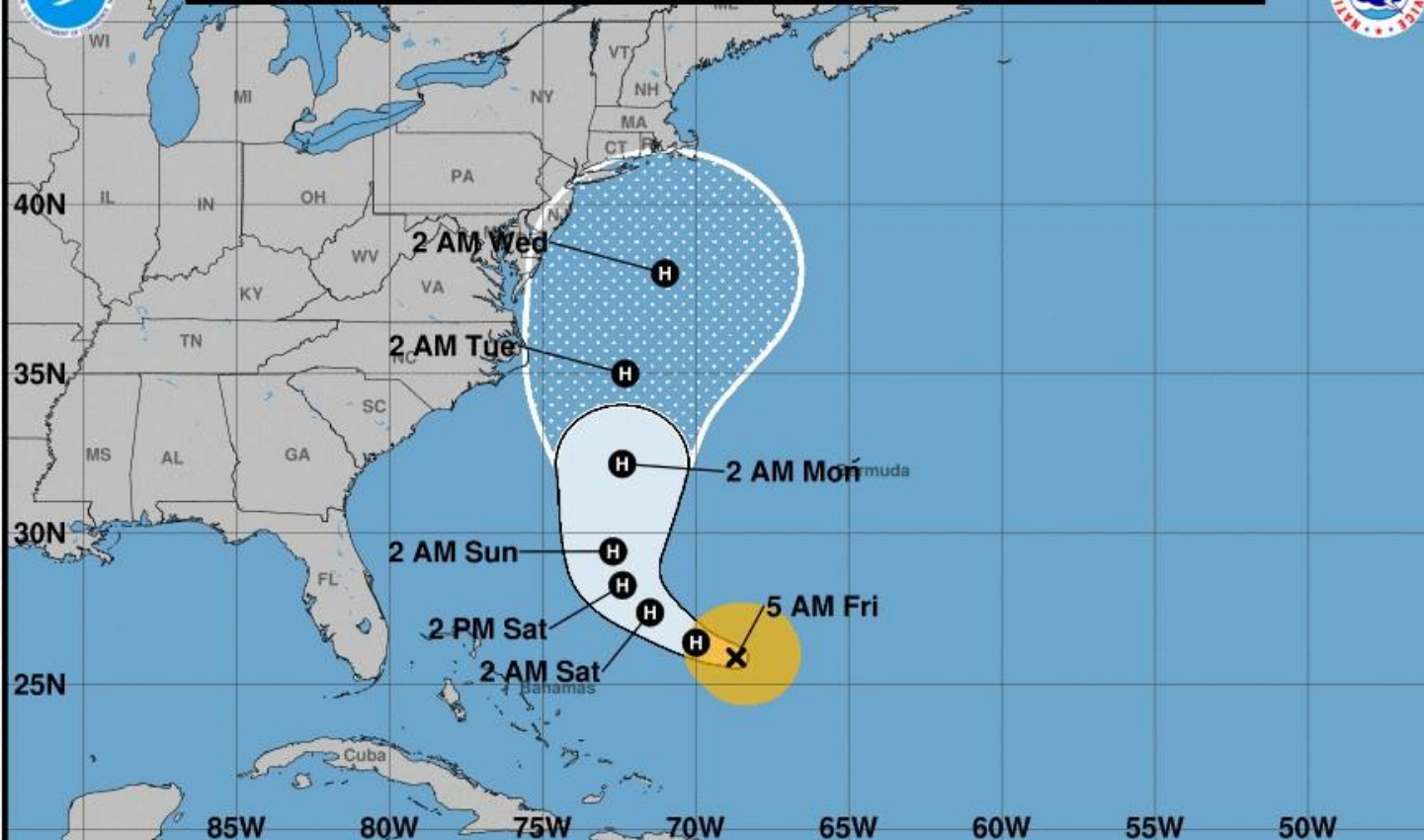
Last update Fri, 15 Sep 2017 12:19:39 UTC

- **NHC issuing advisories for the Atlantic on TS Jose and TD Fourteen**
- **NHC issuing advisories for the Eastern Pacific on TS Norma and TD Fifteen-E**
- Last NHC advisory issued on **Max**
- Key Messages regarding Tropical Storm Jose





Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.



Tropical Storm Jose

Friday September 15, 2017
 5 AM AST Advisory 40
 NWS National Hurricane Center

Current information: X

Center location 25.9 N 68.7 W
 Maximum sustained wind 70 mph
 Movement WNW at 8 mph

Forecast positions:

● Tropical Cyclone ○ Post/Potential TC
 Sustained winds: D < 39 mph
 S 39-73 mph H 74-110 mph M > 110 mph

Potential track area:

Day 1-3 Day 4-5

Watches:

Hurricane Trop Stm

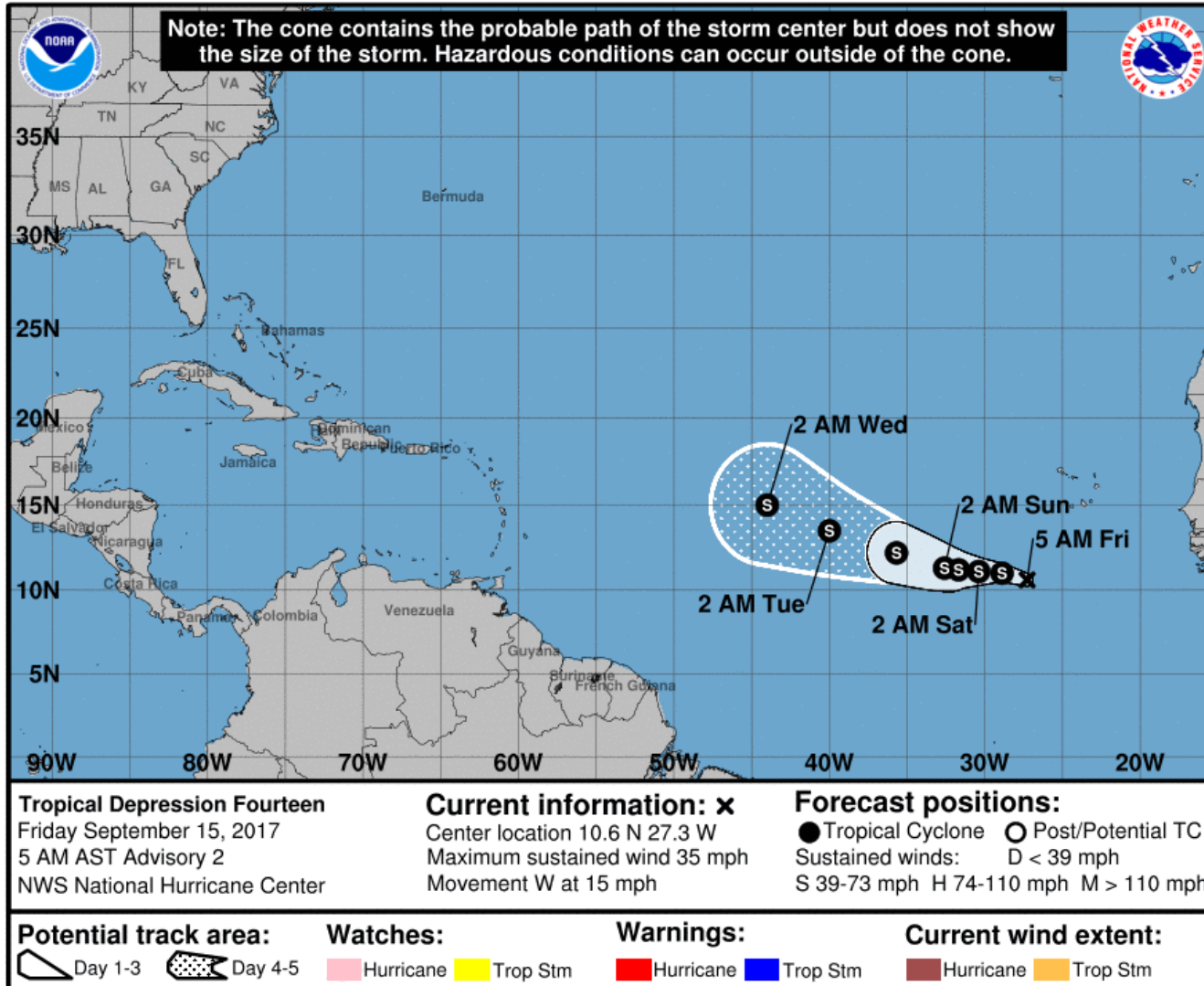
Warnings:

Hurricane Trop Stm

Current wind extent:

Hurricane Trop Stm

td 14 will be LEE soon and odds favor a threat to the USA

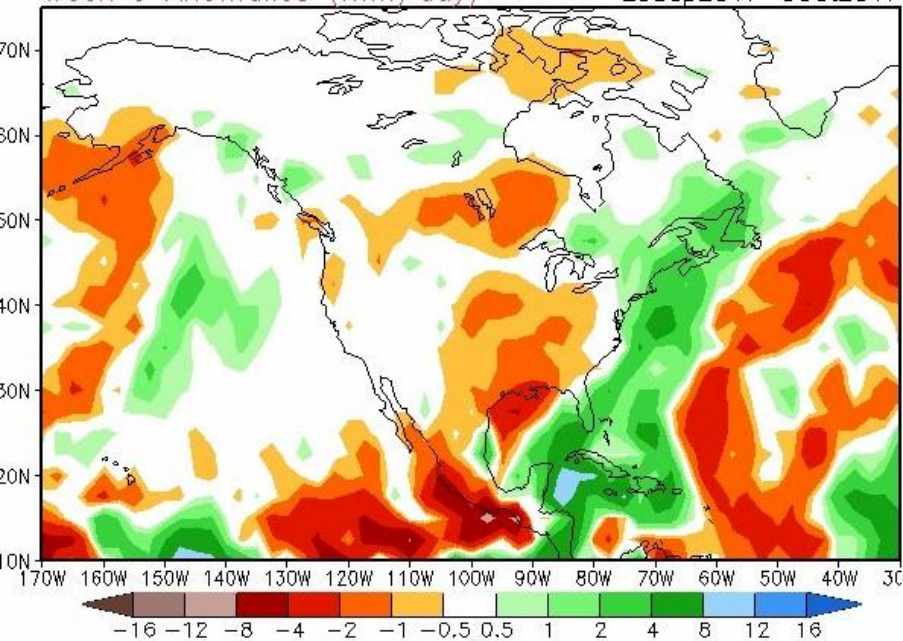


SEPT 14 WEEK 3 CFS - DRY over all of Midwest Plains southern Canada cool over eastern US. ** Euro weeklies very different**

CFSv2 Weeks 3 & 4 Precipitation

16 Member Ensemble Mean Forecast from 14Sep2017

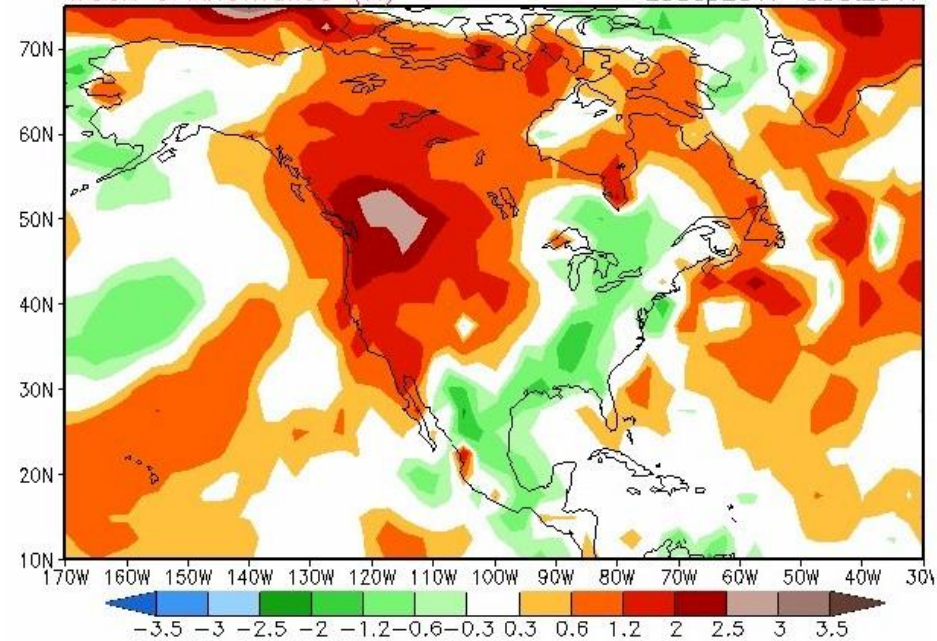
Week 3 Anomalies (mm/day) 29Sep2017-50Oct2017



CFSv2 Extended Range Temperature

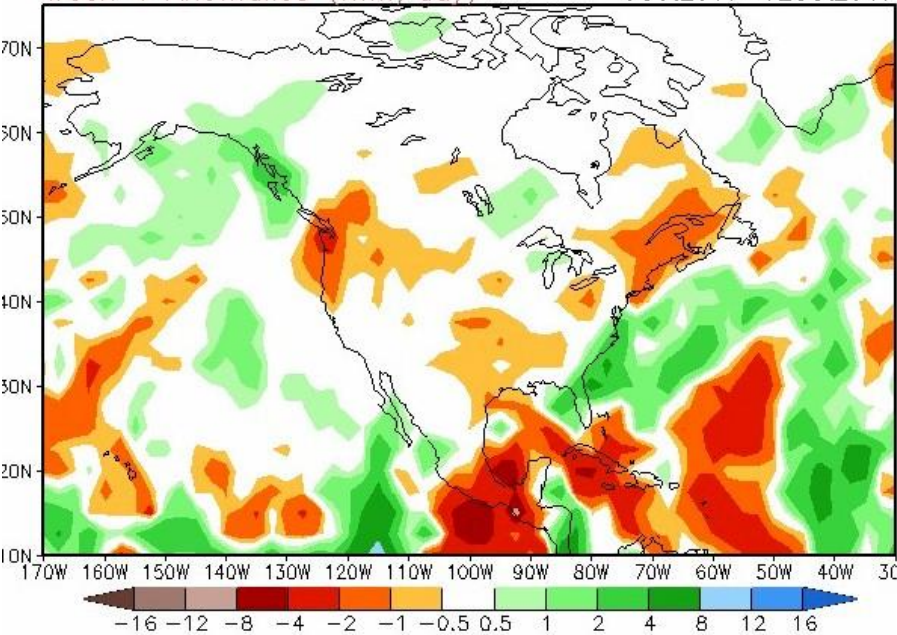
16 Member Ensemble Mean Forecast from 14Sep2017

Week 3 Anomalies (K) 29Sep2017-50Oct2017

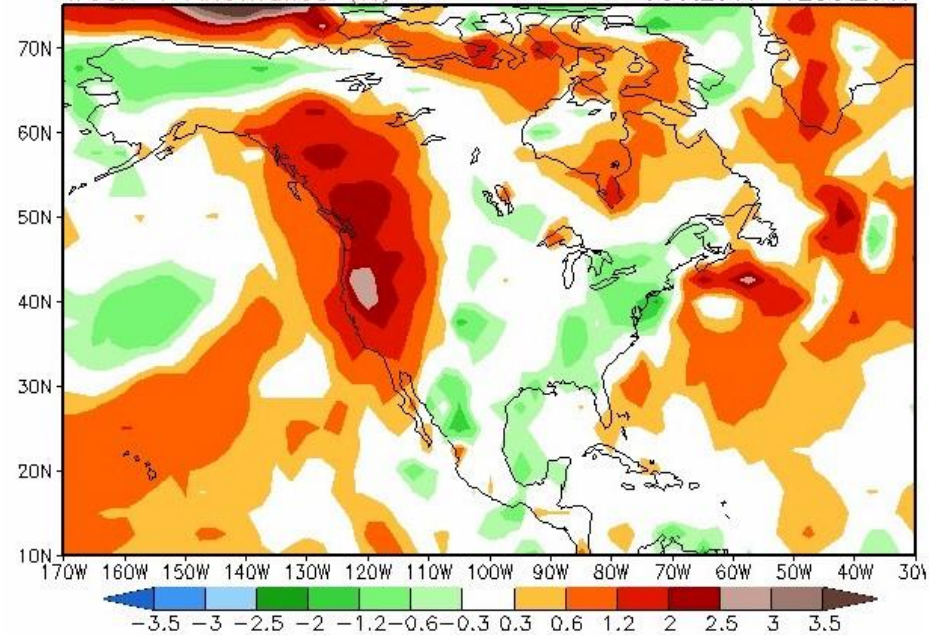


**WEEK 4 CFS- still dry over Plains WCB
southern Canada... WET southern Plains SE
USA East Coast DRY western US... again Euro
weeklies very different**

Week 4 Anomalies (mm/day) 60Oct2017-12Oct2017



Week 4 Anomalies (K) 60Oct2017-12Oct2017

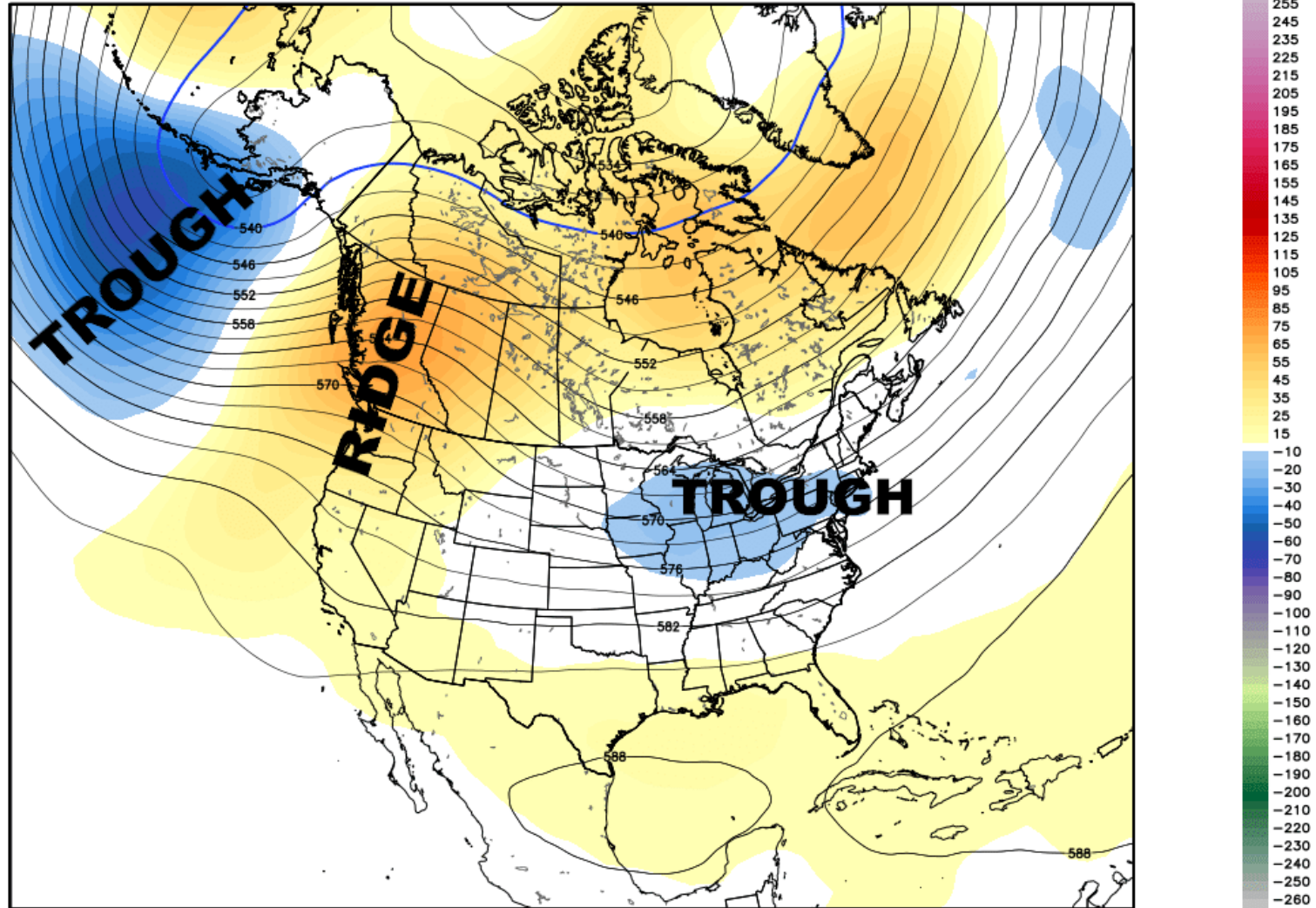


SEPT 14 EURO WEEKLIES 500 mb map valid 10/9

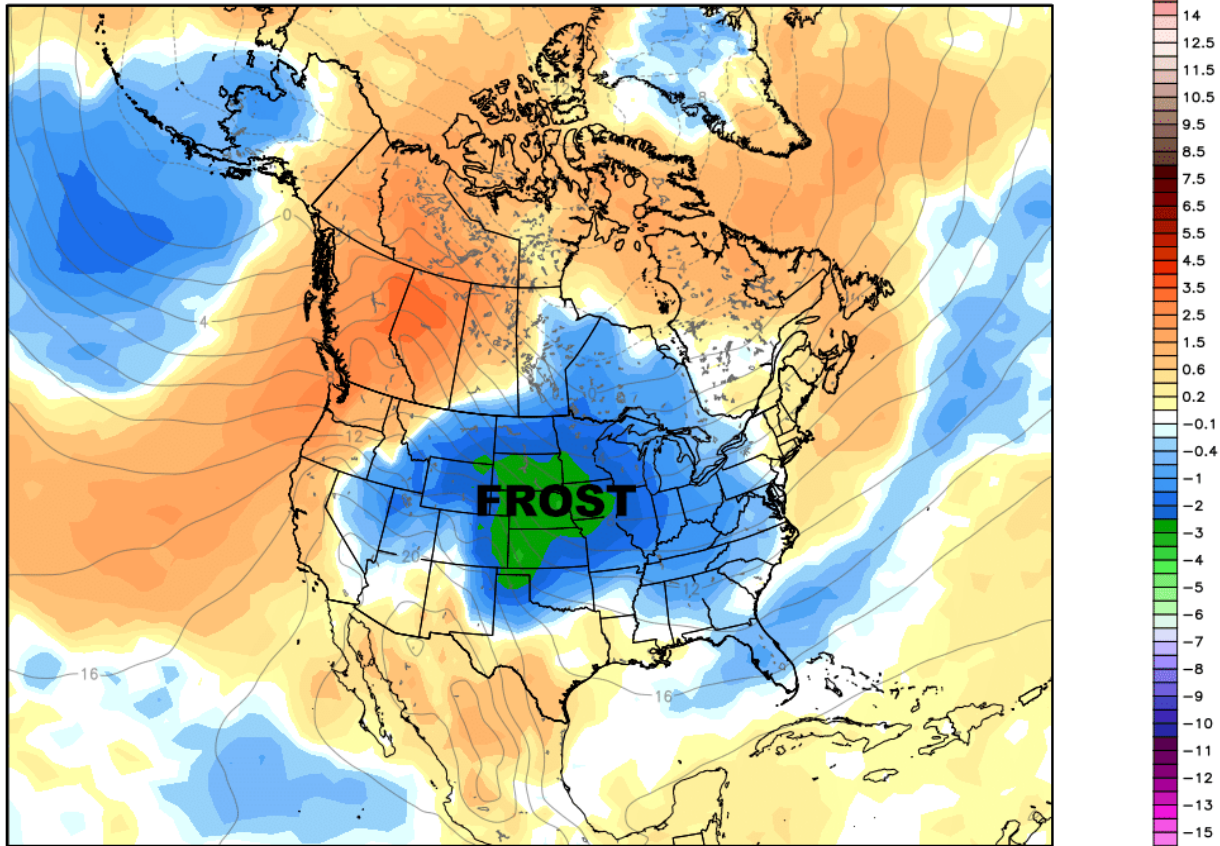
ECMWF EPS Monthly Ensemble Mean 500 hPa Geopotential Height [dm] & Anomaly [m]

INIT: 00Z14SEP2017 fx: [600] hr --> Mon 00Z09OCT2017

Min|Max: -62.6 | 74.5 m



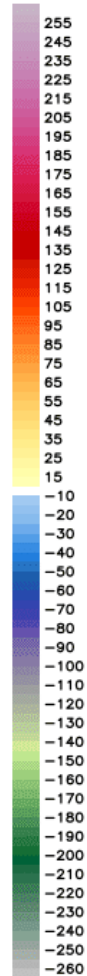
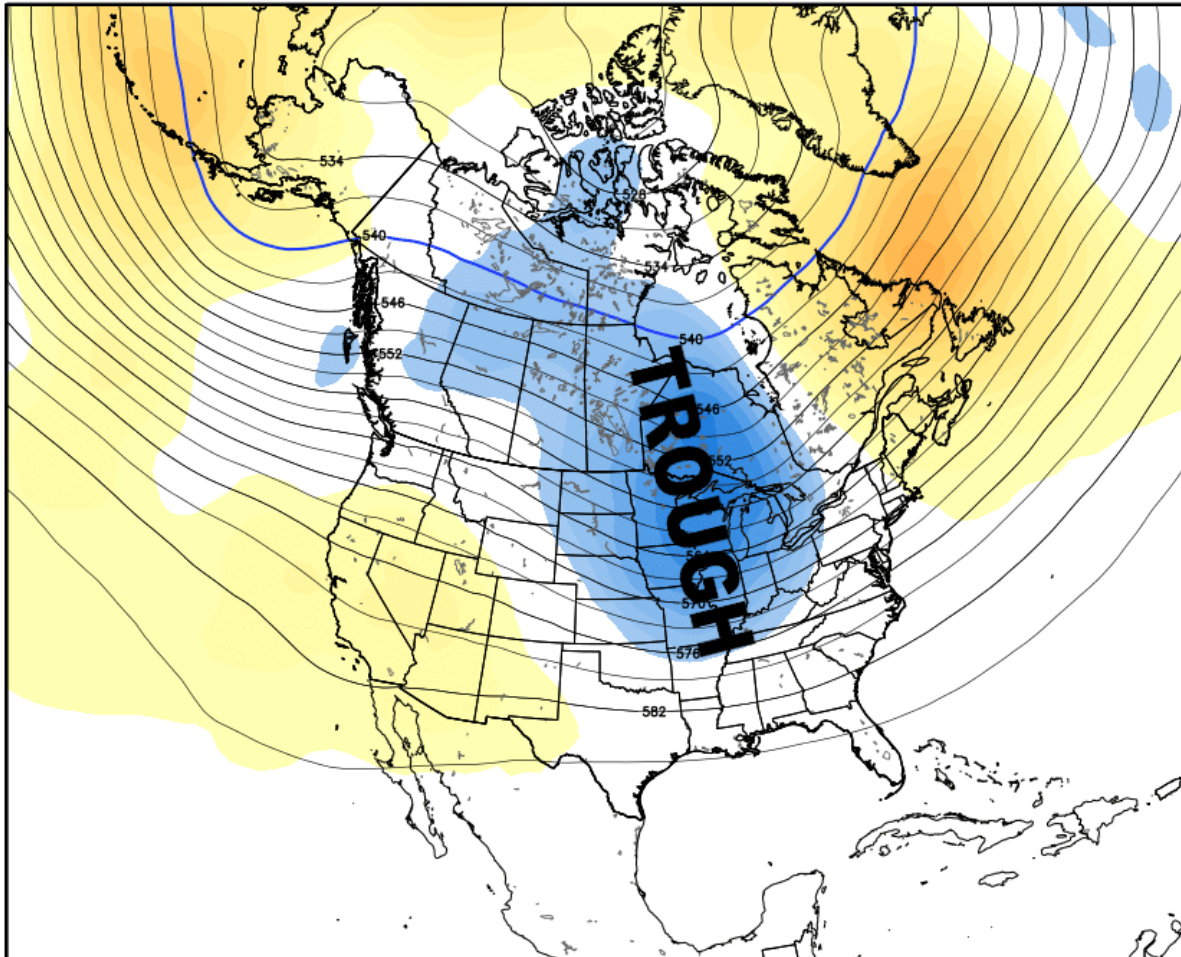
ECMWF EPS Monthly Ensemble Mean 850 hPa Temperature Anomaly [°C] & Anomaly
INIT: 00Z14SEP2017 fx: [624] hr --> Tue 00Z10OCT2017 Min|Max: -3.1 | 3.4 °C



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

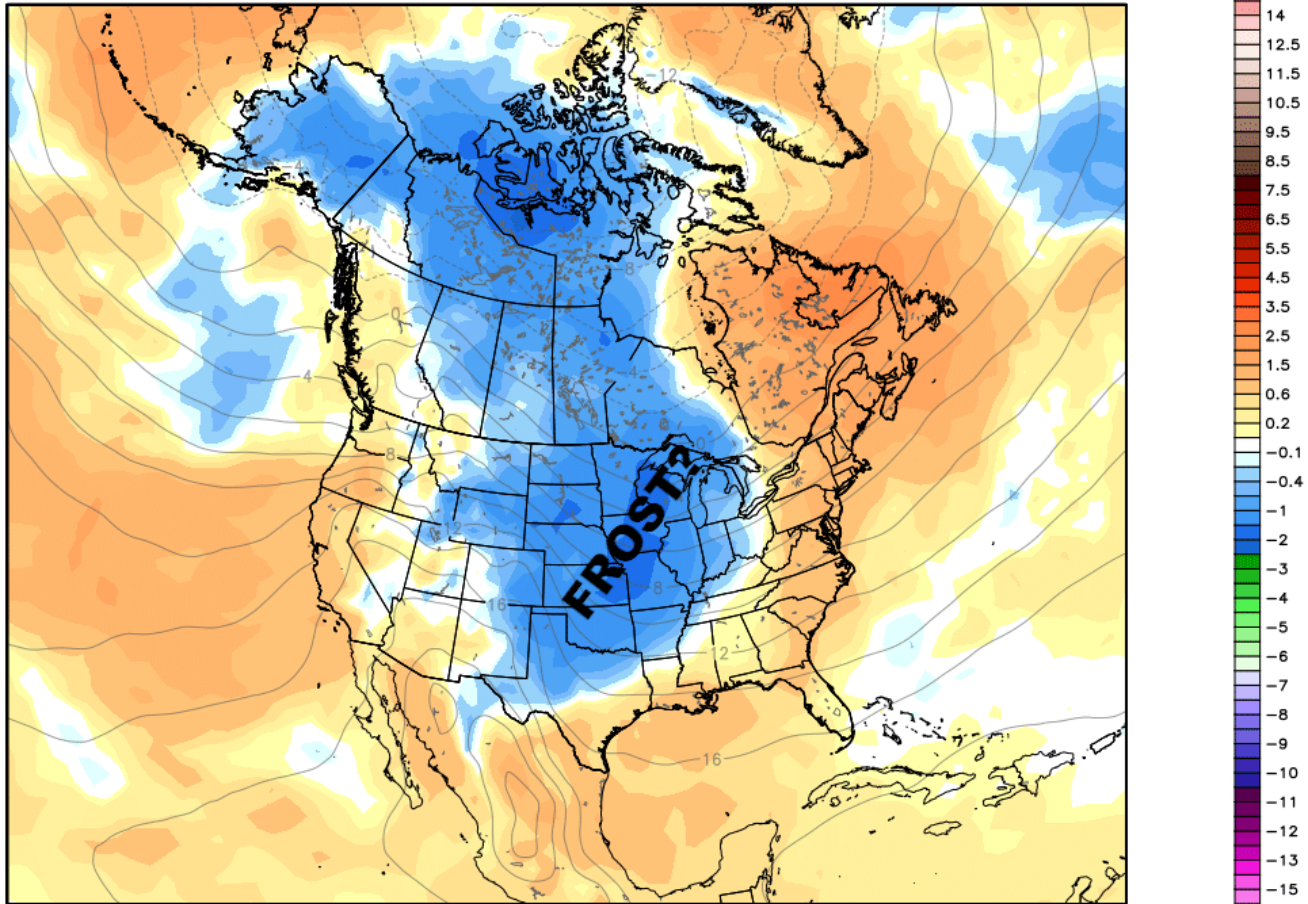
INIT: 00Z14SEP2017 fx: [864] hr --> Fri 00Z20OCT2017

Min|Max: -42.1 | 67.4 m



ECMWF EPS Monthly Ensemble Mean 850 hPa Temperature Anomaly [°C] & Anomaly
INIT: 00Z14SEP2017 fx: [864] hr --> Fri 00Z20OCT2017

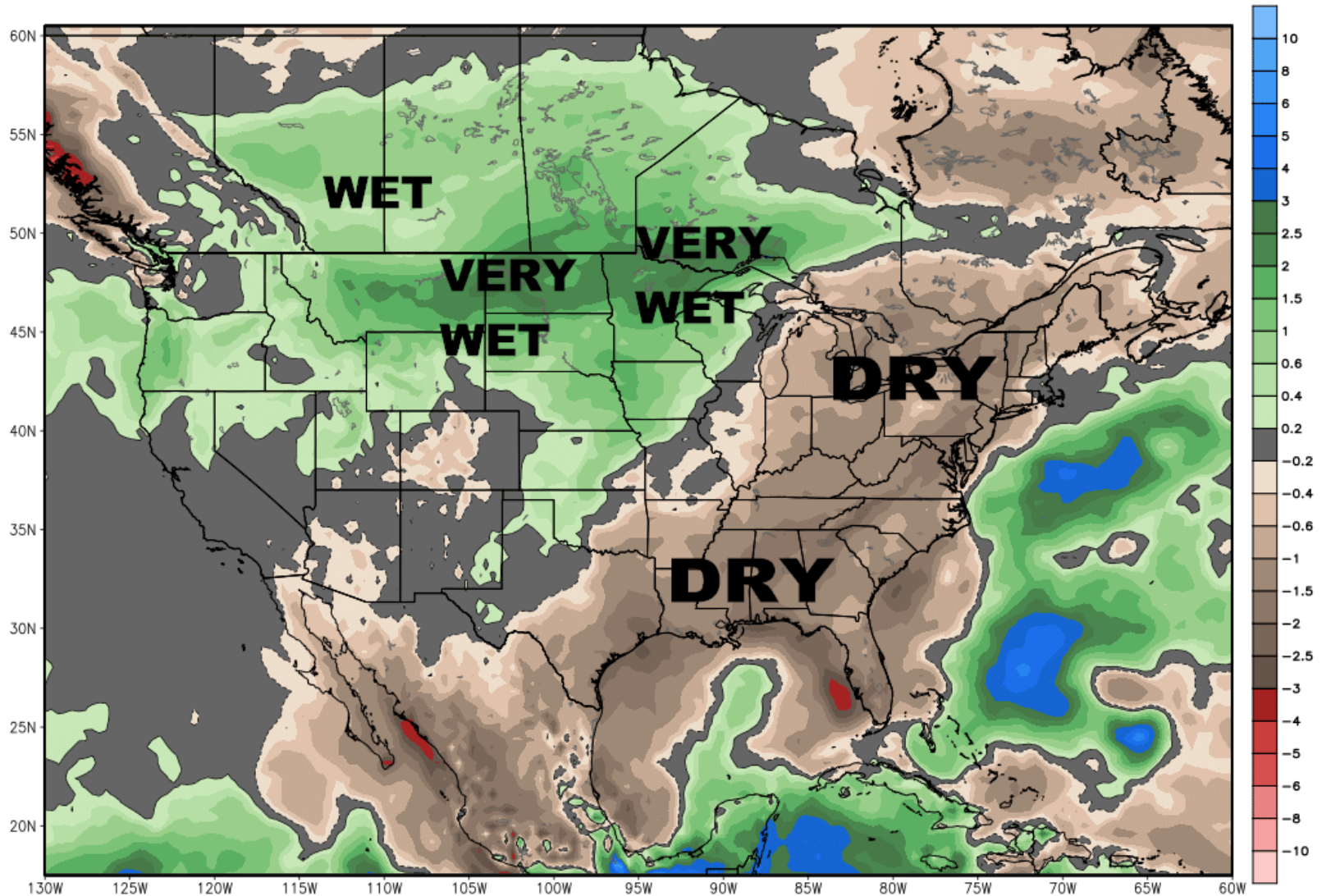
Min|Max: -2.2 | 2.9 °C



ECMWF EPS Ensemble Mean 32-day Avg Precipitation Anomaly [inch]

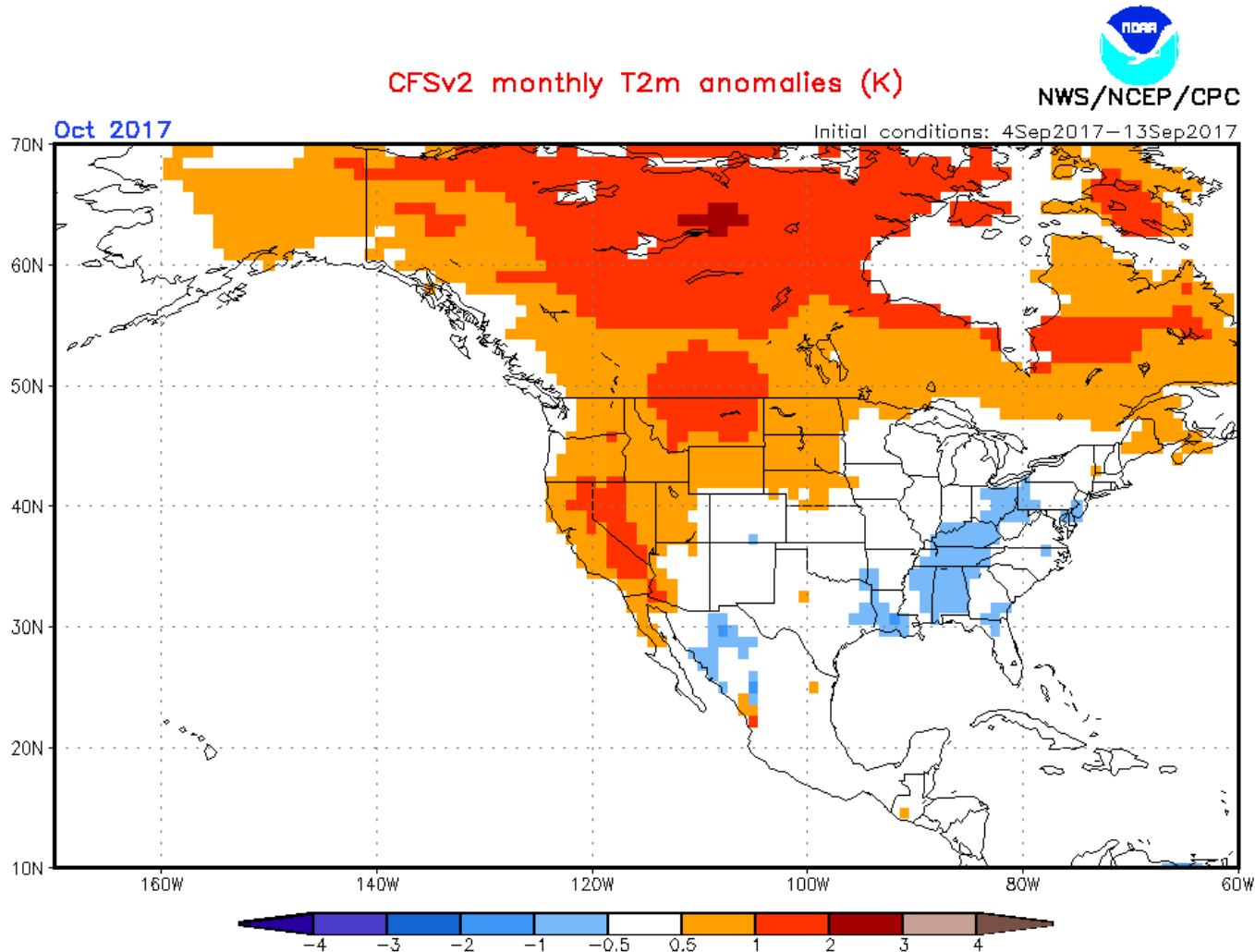
Min|Max Anom: -6.3 | 6.3 inch

Init: 00Z14SEP2017 -- [768] hr --> Valid on Mon 00Z16OCT2017 Day 0 - Day 32

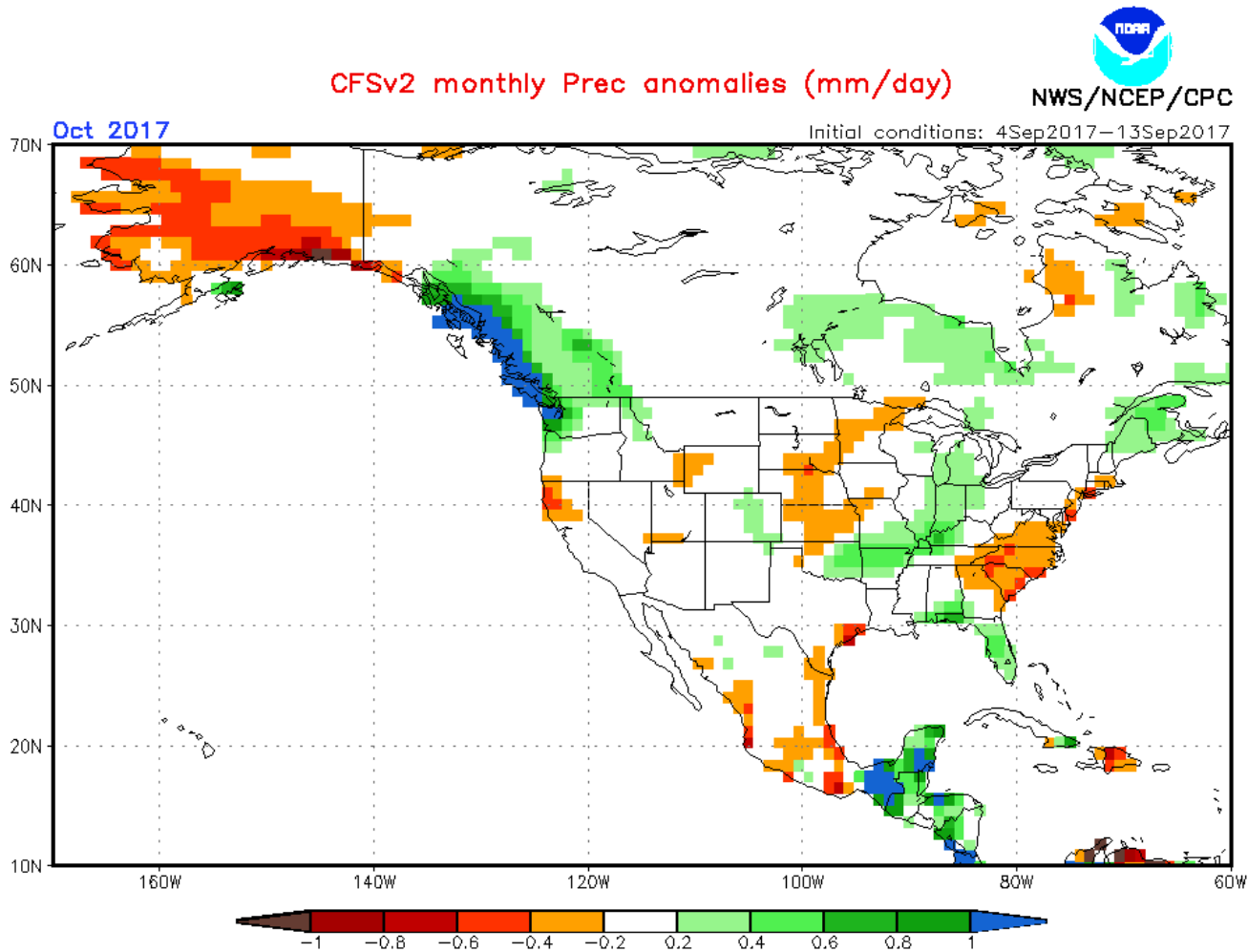


Accumulation between 00Z14SEP2017-00Z16OCT2017 | ECMWF EPS 1996-2015 Hindcast Climatology

CFS FOR OCT TEMPS MILD most of Plains and southern Canada Near Normal over Midwest... Cooler over ECB & SE states

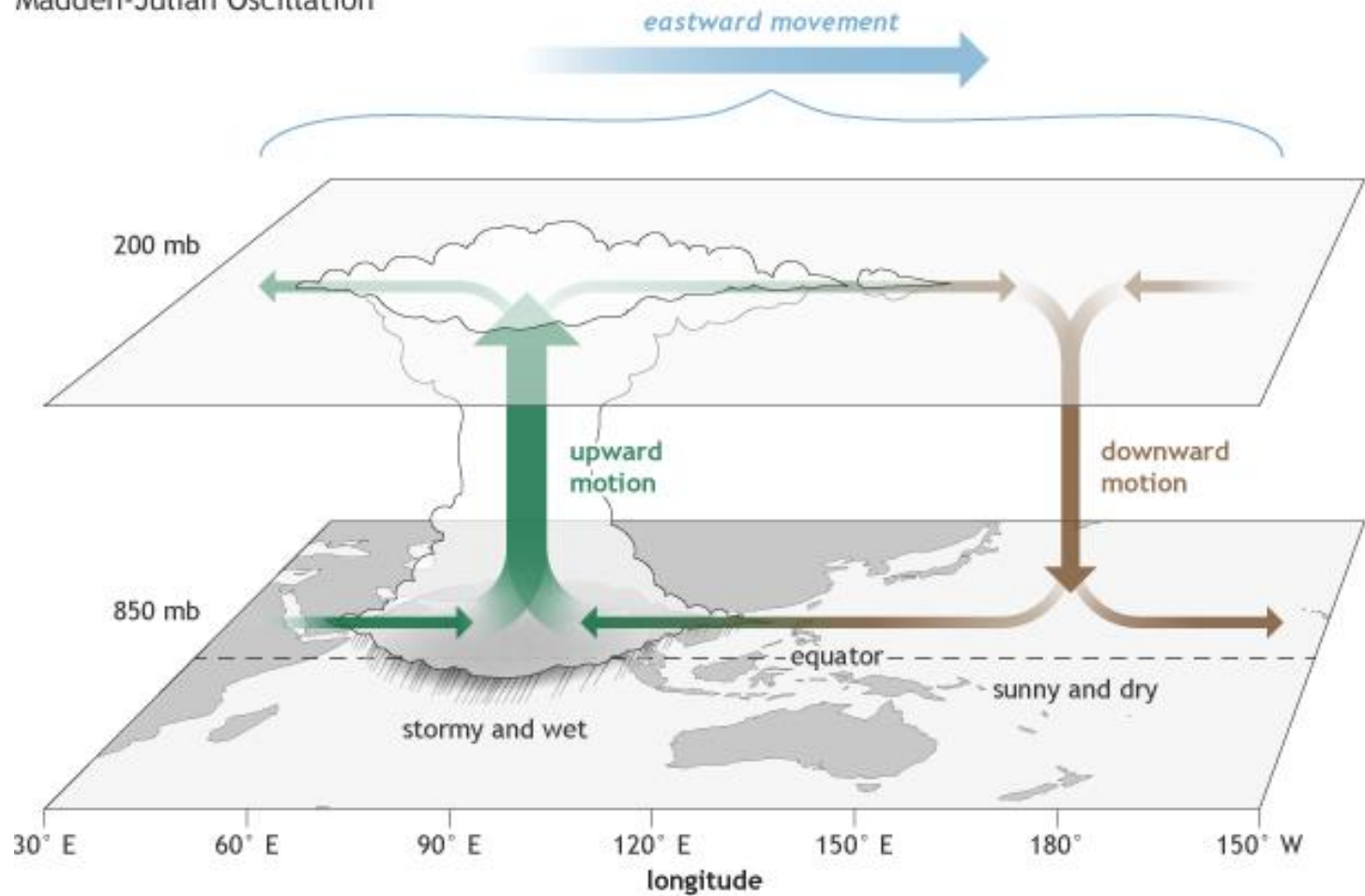


OCT RAINFALL FROM CFS - DRY WCB/ CENTRAL PLAINS WET DELTA TN VALLEY / ECB

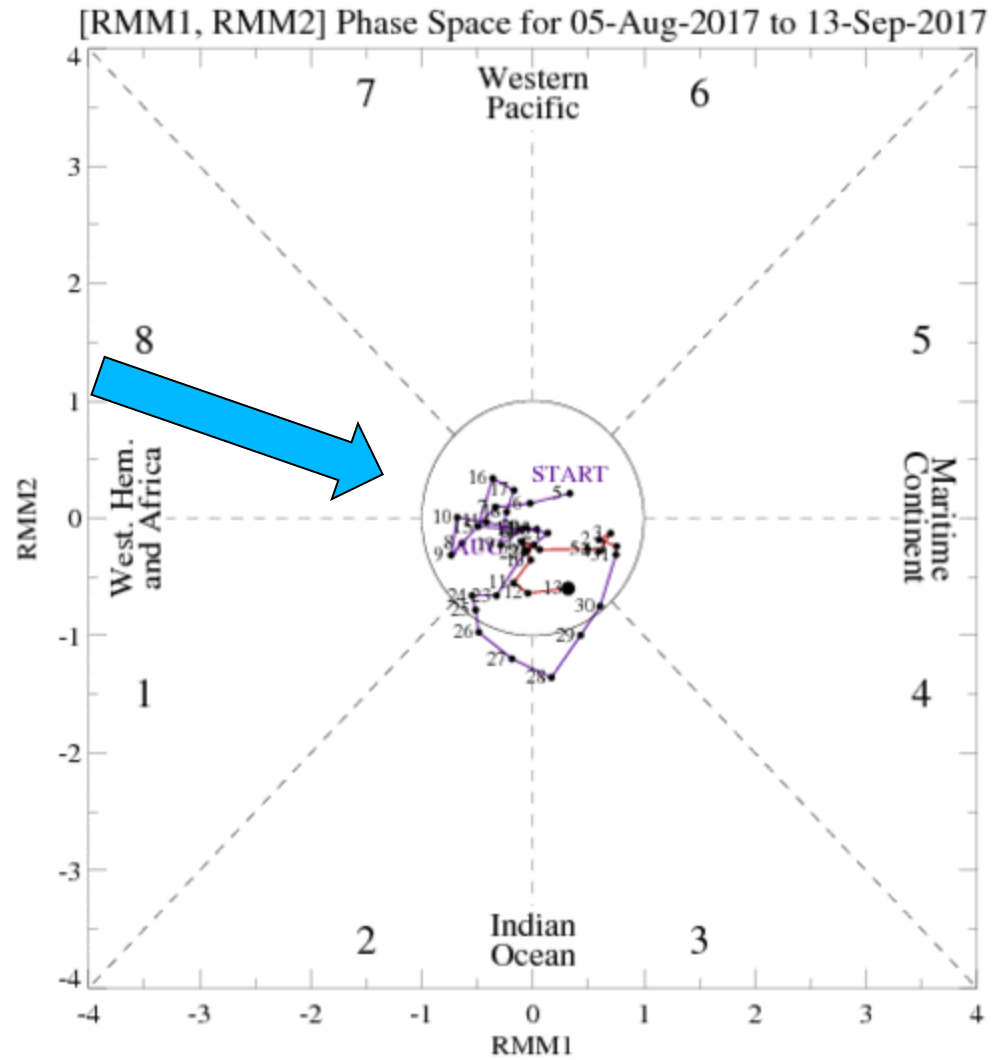


LETS TALK MJO/ENSO

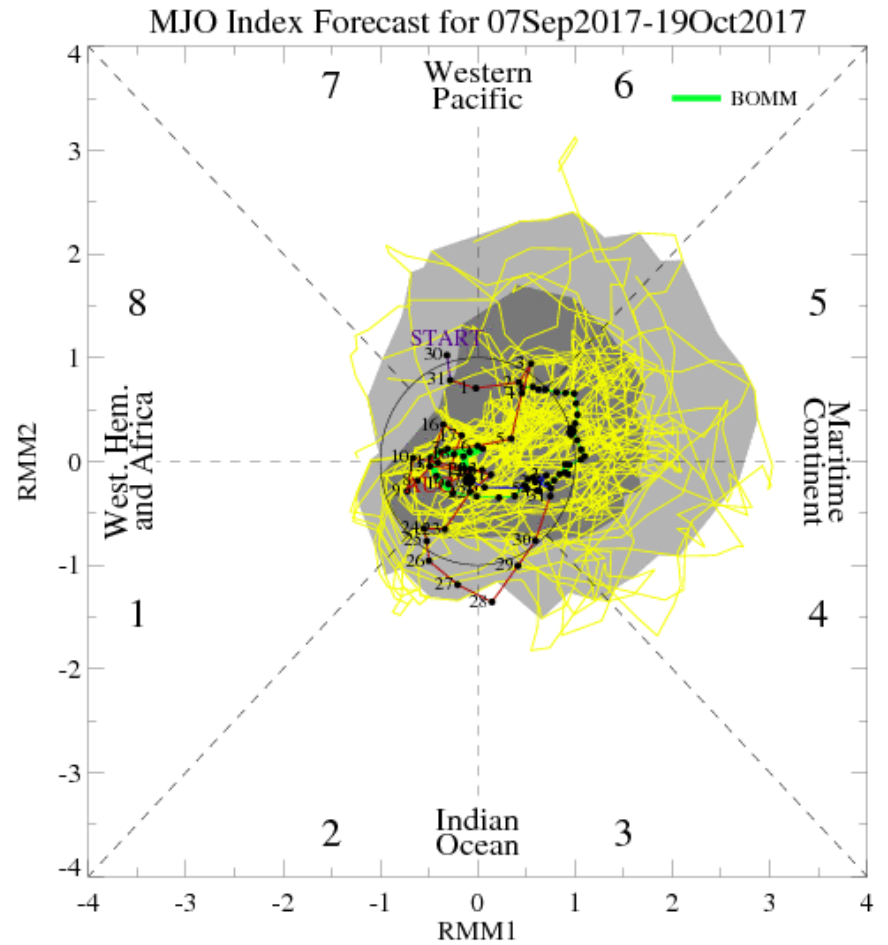
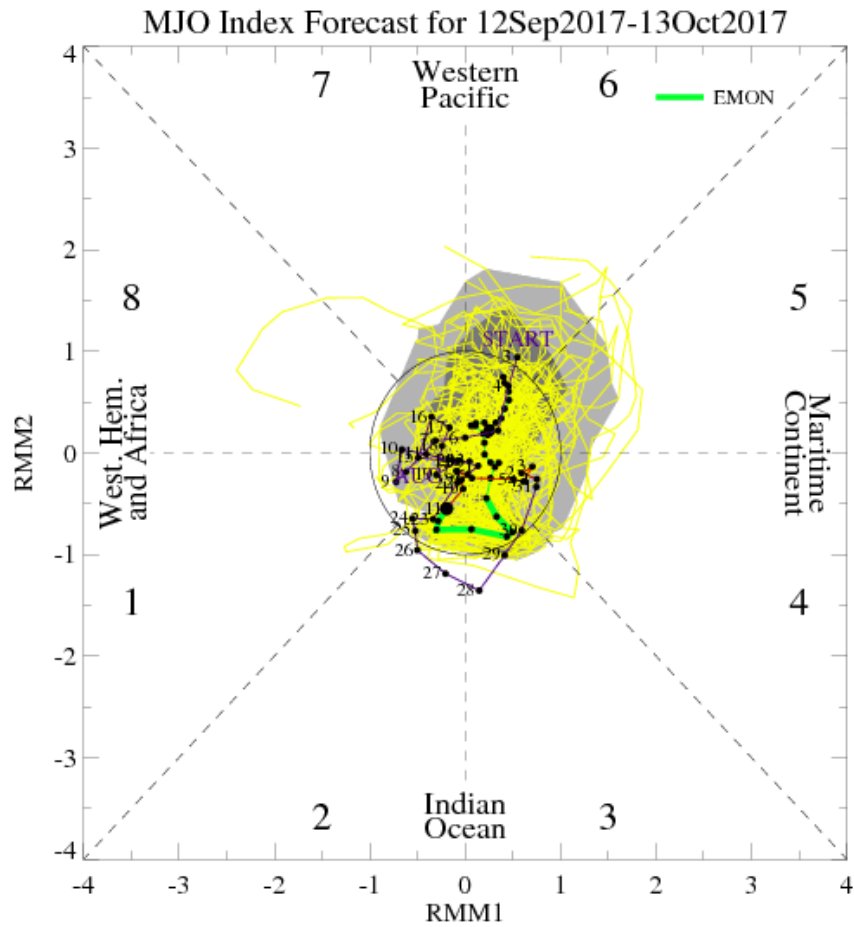
Madden-Julian Oscillation



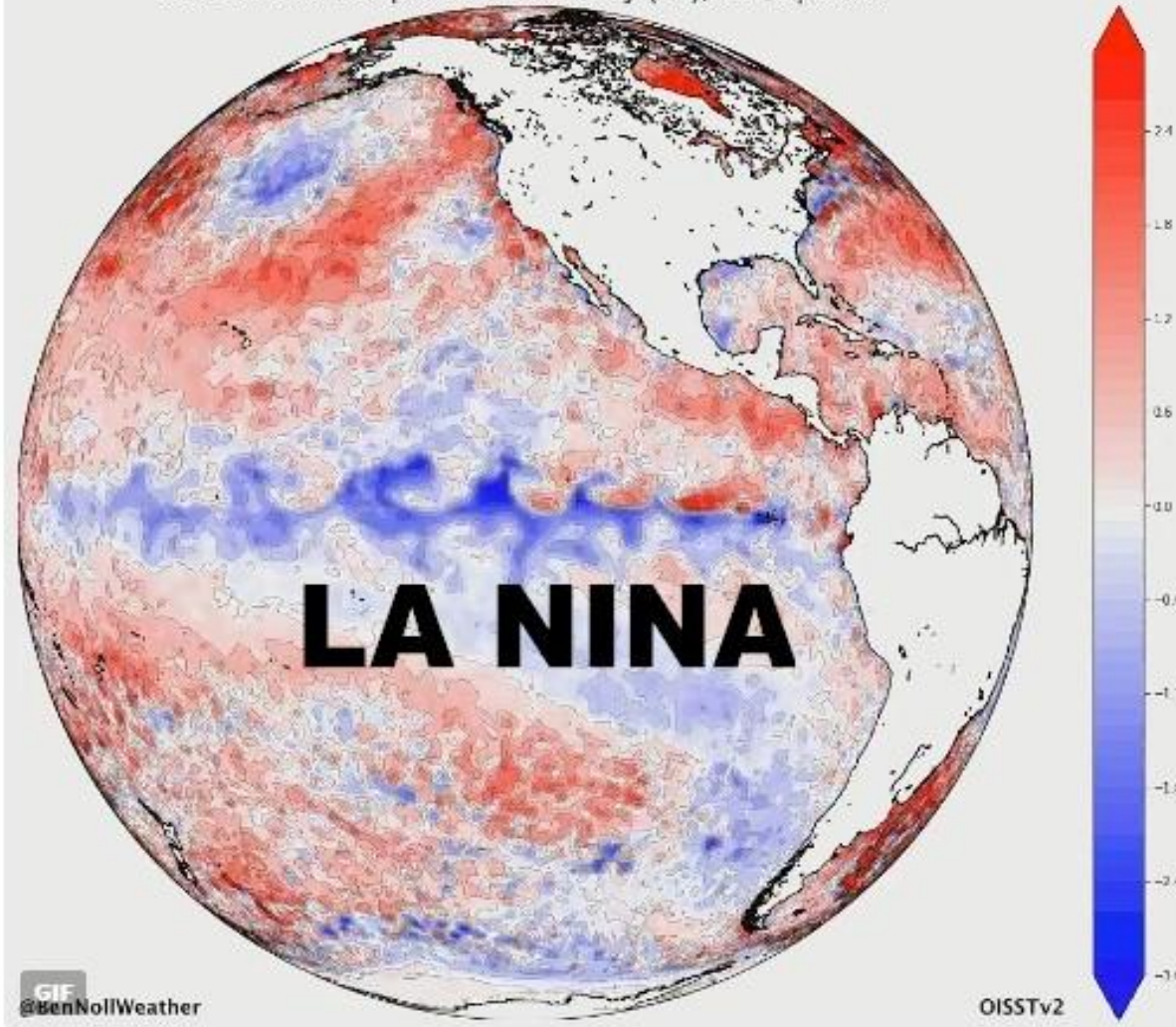
MJO STAYS WEAK



MJO STAYS Weak

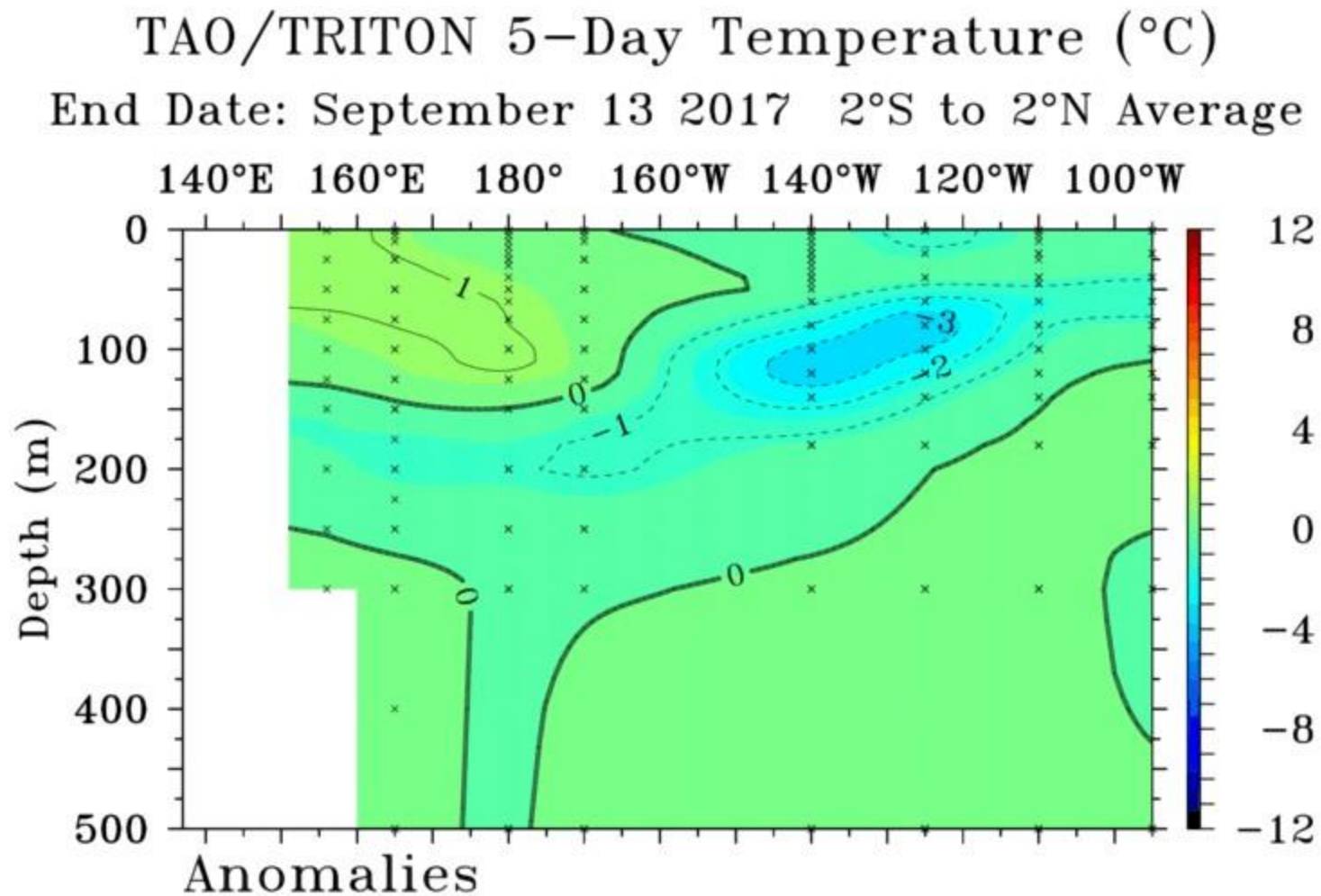


Sea Surface Temperature Anomaly (°C), 10 Sep 2017



6:29 AM - 13 Sep 2017

TAO – ACTUAL SEA SURFACE TEMP ANOMALIES – not projection .. RAPID build up of cold water

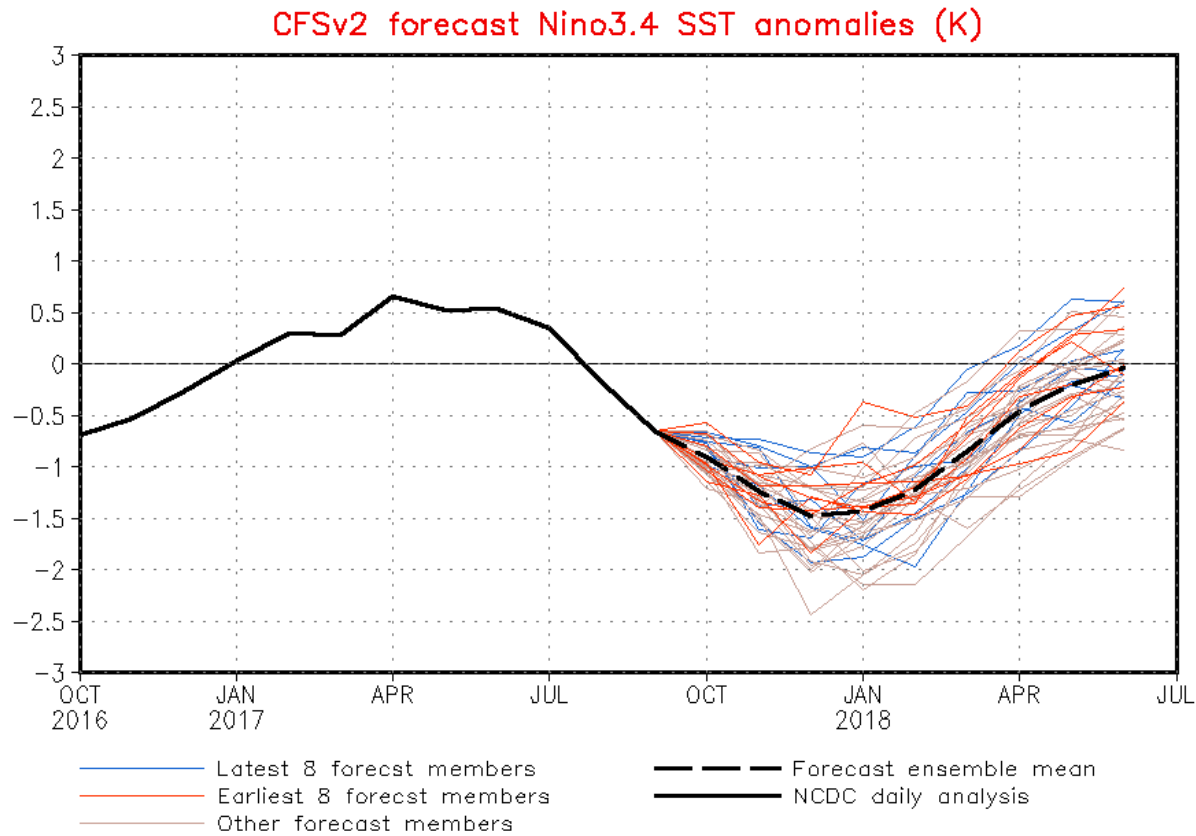


LATEST CFS PROJECTION = MODERATE LA NINA BY JAN 2018.. of course CFS was too aggressive with El Nino back in FEB MAR APRIL

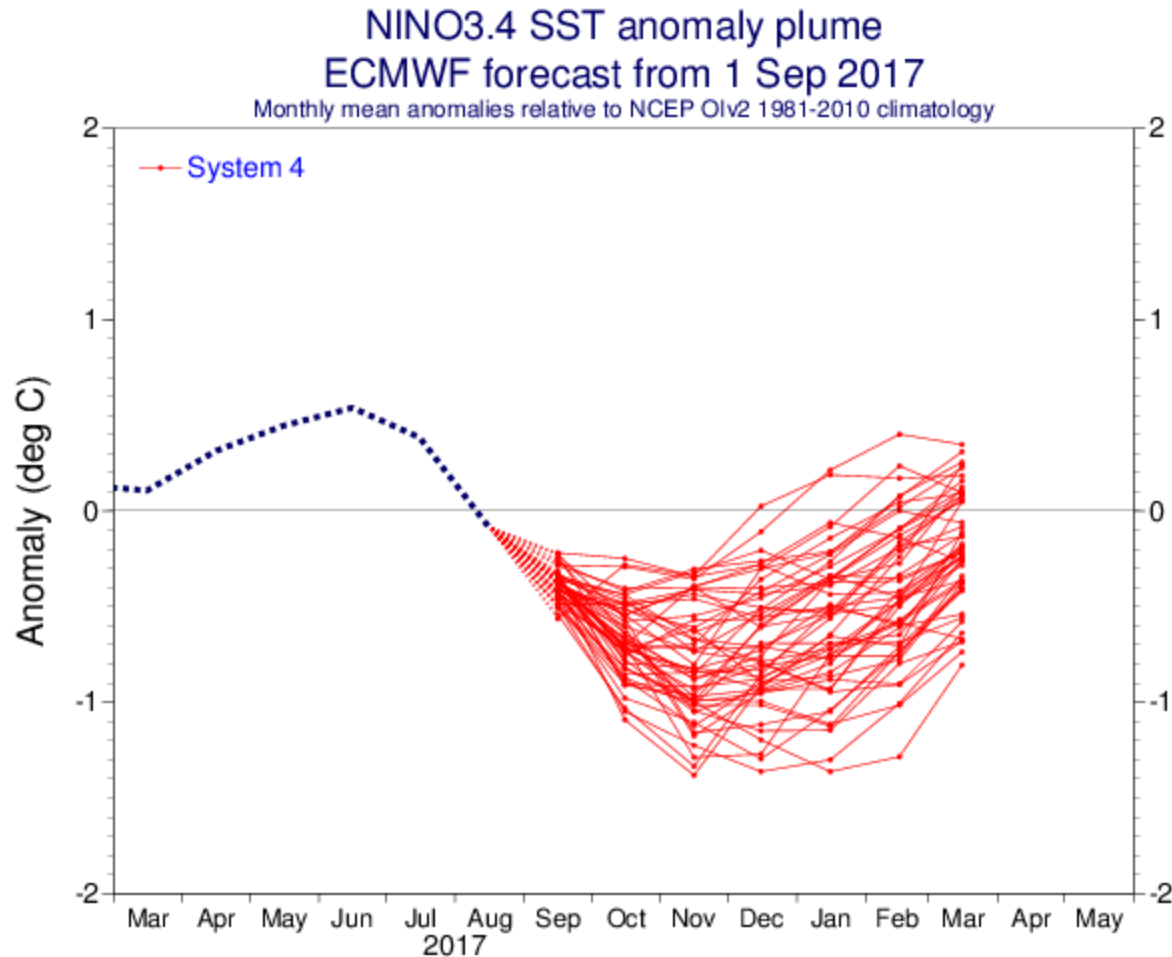


NWS/NCEP/CPC

Last update: Thu Sep 14 2017
Initial conditions: 4Sep2017-13Sep2017

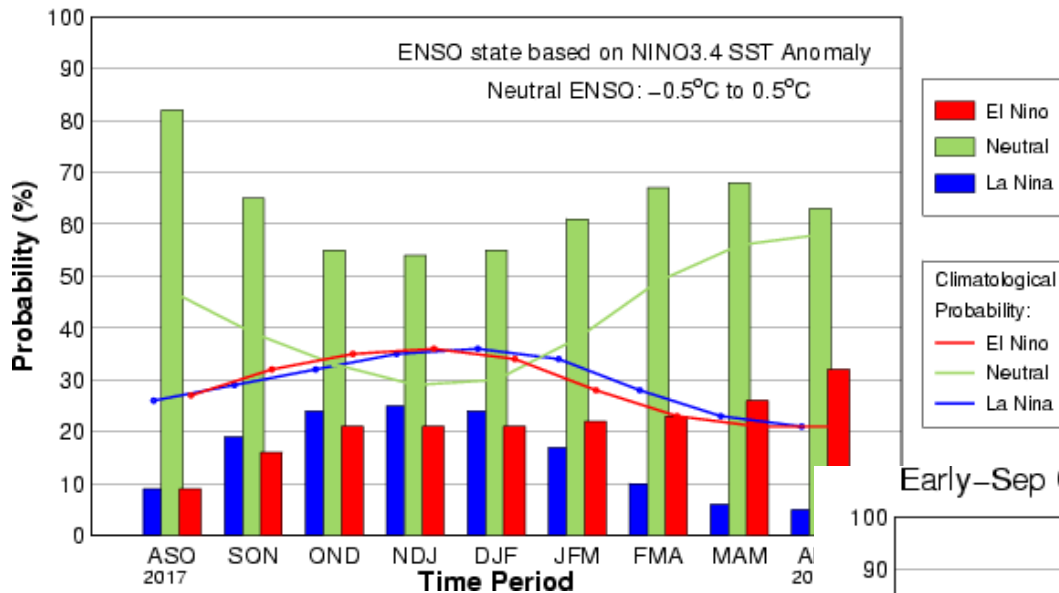


LATEST ECMWF PROJECTION = WEAK LA NINA BY JAN 2018.. EURO was not as bullish on El Nino scare back back in FEB MAR APRIL 2017

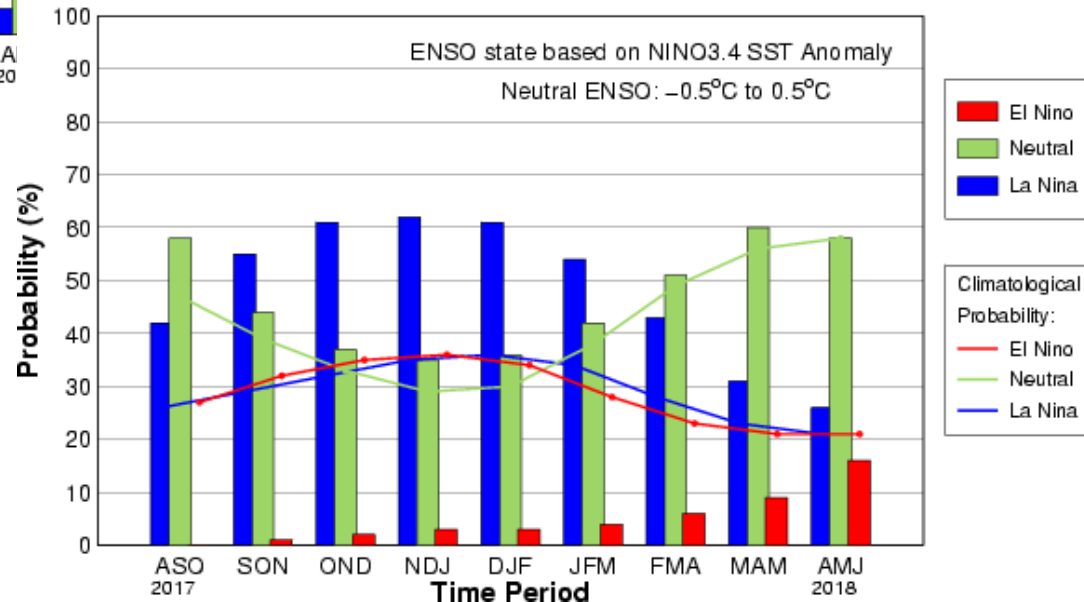


IRI PROJECTIONS= UPPER LEFT Mid August favored NEUTRAL conditions for Winter 17-18 --- MAJOR changes over past 3 weeks and LA NINA now favored

Mid-Aug IRI/CPC Model-Based Probabilistic ENSO Forecast



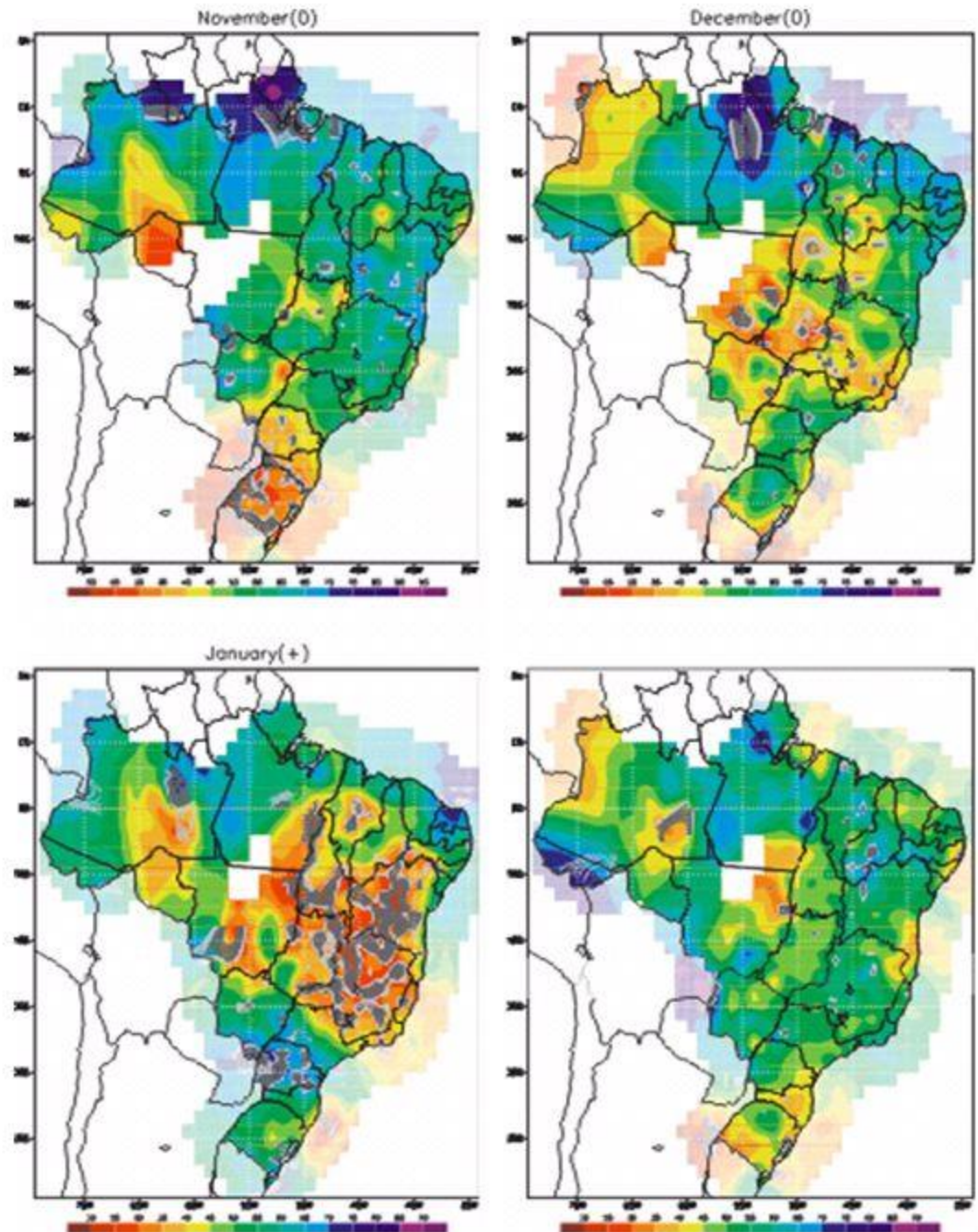
Early-Sep CPC/IRI Official Probabilistic ENSO Forecast



Intraseasonal Variation of the La Niña impact within the monsoon season

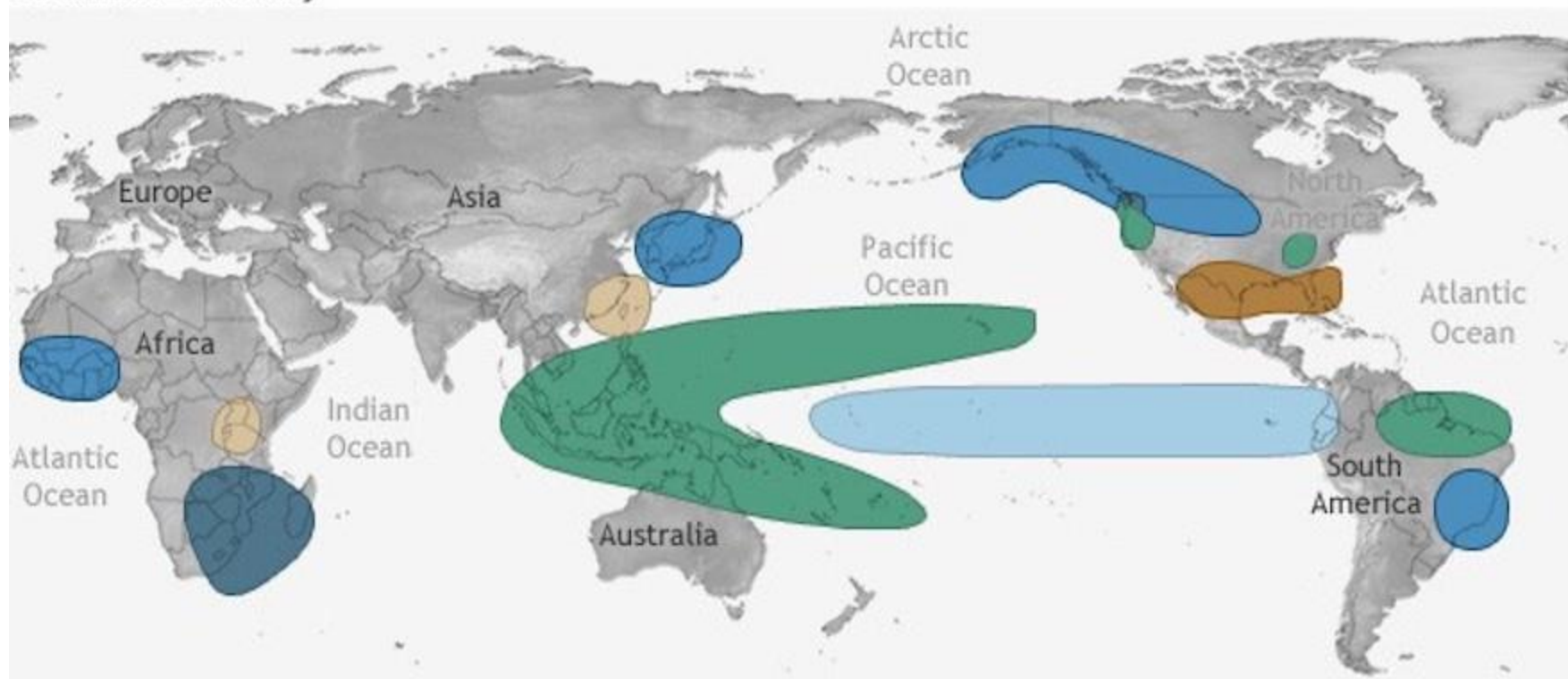
(Grimm 2004, Climate Dynamics)

Monthly mean precipitation percentiles expected for the indicated month of La Niña events. Shaded areas have precipitation anomalies consistent over 90% confidence level.



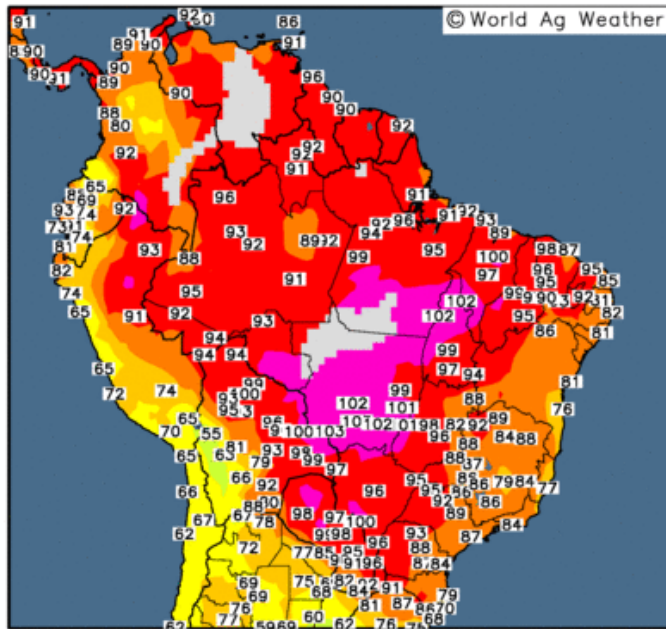
LA NIÑA CLIMATE IMPACTS

December-February



Observed Maximum Temperature (°F)

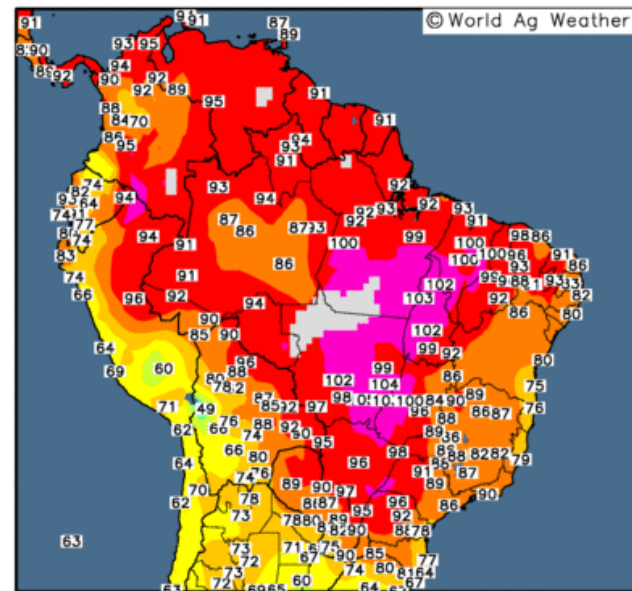
13 Sep 2017



HEAT WAVE IN BRAZIL
enhanced by prolonged
dryness of past several
seasons

Observed Maximum Temperature (°F)

12 Sep 2017

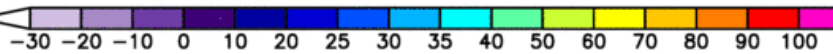
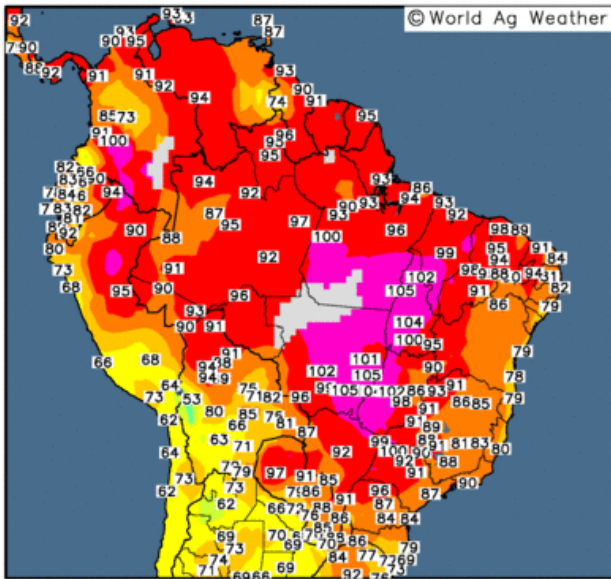


Map updates daily by approximately 16:00 UTC

Map updates daily by approximately 16:00 UTC

Observed Maximum Temperature (°F)

11 Sep 2017

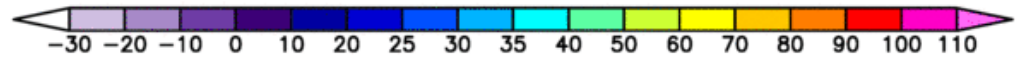
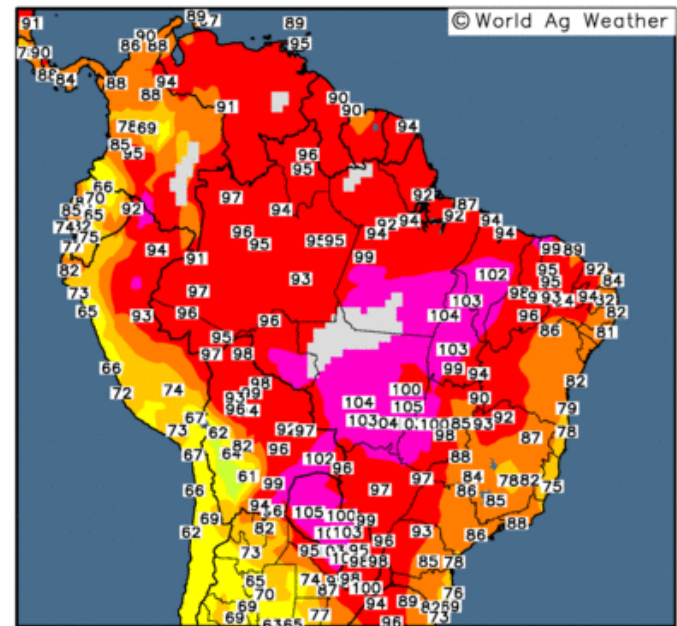


Map updates daily by approximately 16:00 UTC

HEAT WAVE IN BRAZIL
enhanced by prolonged
dryness of past several
seasons

Observed Maximum Temperature (°F)

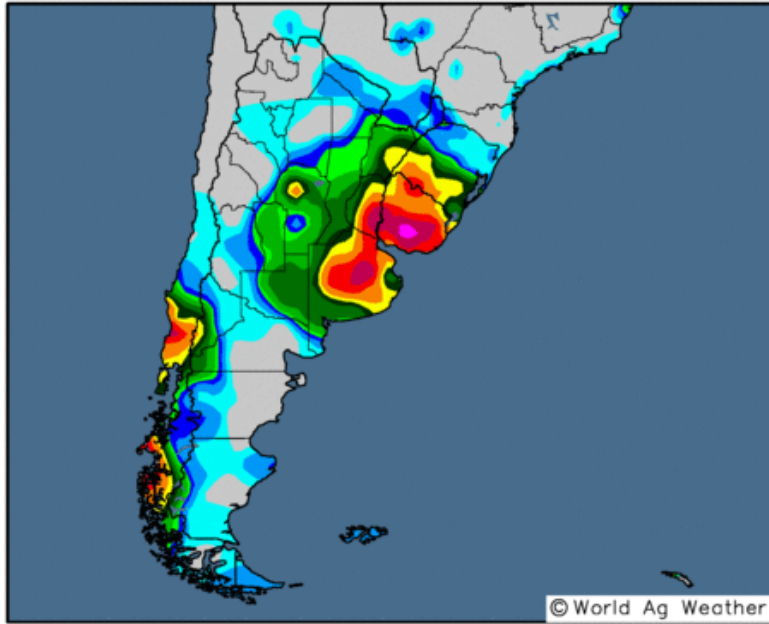
10 Sep 2017



Map updates daily by approximately 16:00 UTC

14-day Precipitation Analysis

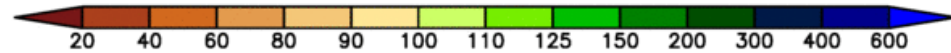
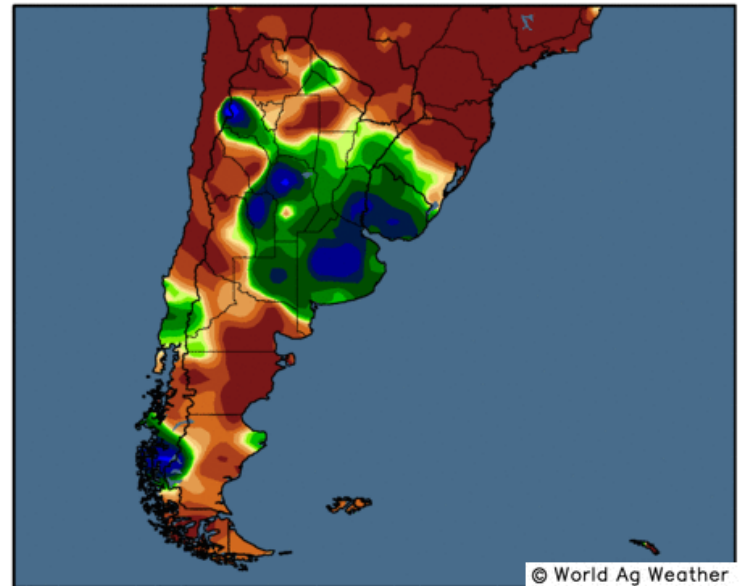
Observed precipitation (inches) through 12 UTC 13 Sep 2017



Map updates daily by approximately 20:30 UTC

14-day Precipitation Analysis

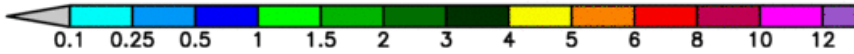
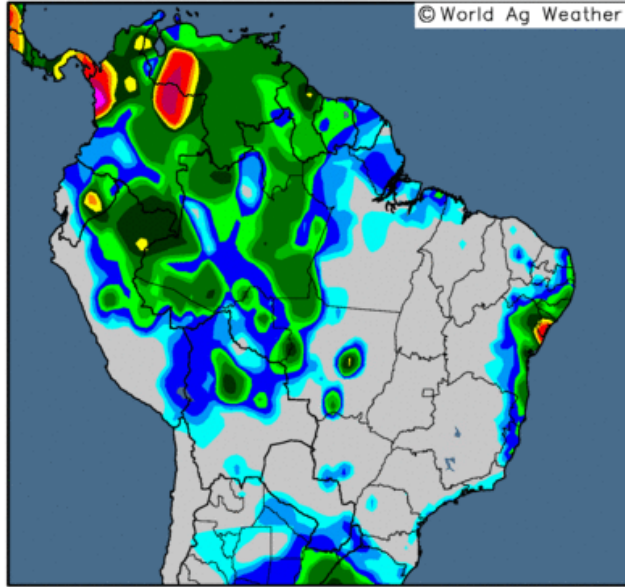
Percent of normal through 12 UTC 13 Sep 2017



Map updates daily by approximately 20:30 UTC

14-day Precipitation Analysis

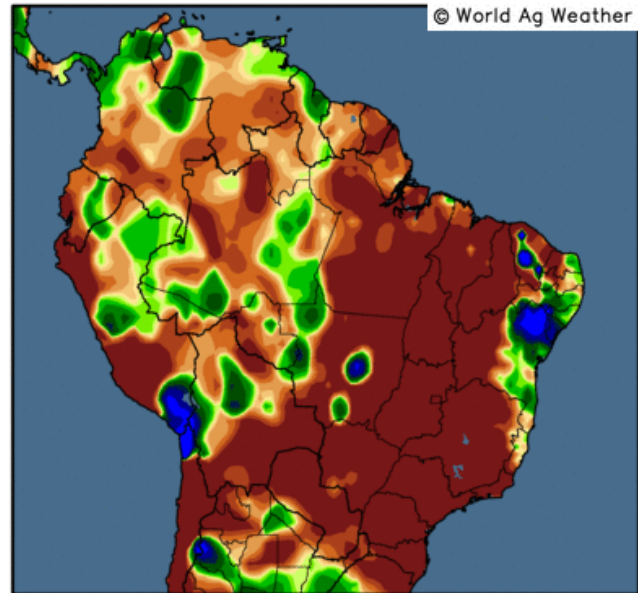
Observed precipitation (inches) through 12 UTC 13 Sep 2017



Map updates daily by approximately 20:30 UTC

14-day Precipitation Analysis

Percent of normal through 12 UTC 13 Sep 2017

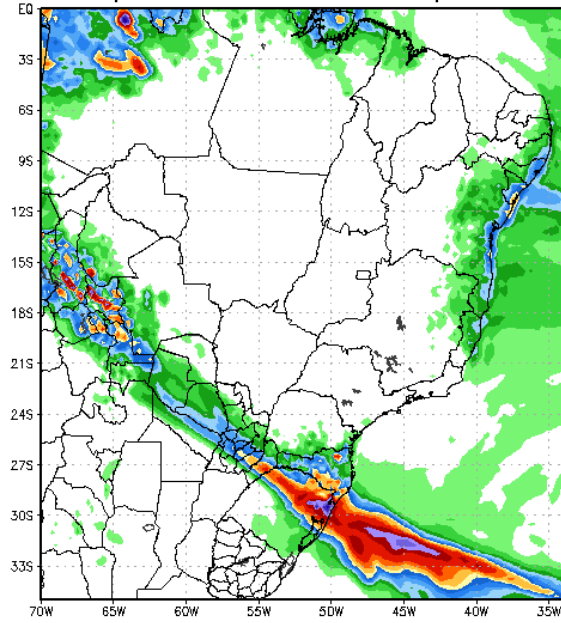


Map updates daily by approximately 20:30 UTC

NEXT 5 DAYS

GFS LEFT EURO RIGHT

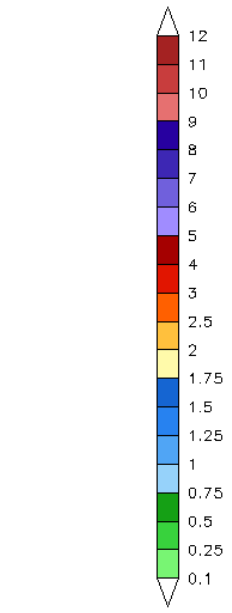
120 Hour Total Precipitation (in)
Valid: 00z Fri 15 Sep 2017 - 00z Wed 20 Sep 2017



Max: 8.4 in
Min: 0.0 in

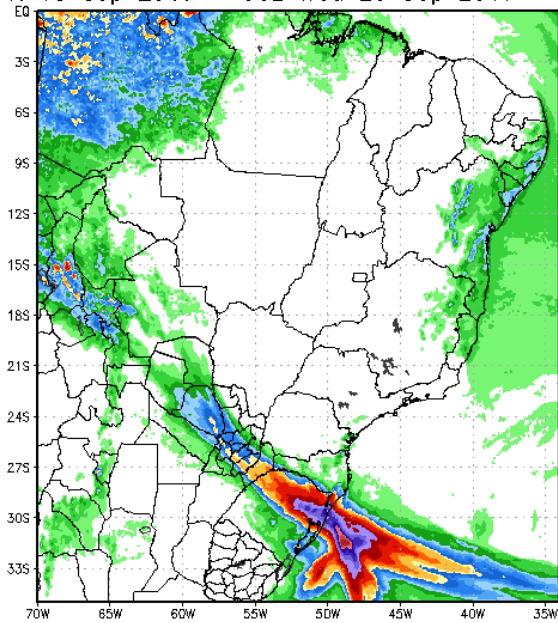
StormVistaWxModels.com

GFS-MAXRES 120 Hour Total Precipitation (in)
Hour: 0 - 120
Valid: 00z Fri 15 Sep 2017 - 00z Wed 20 Sep 2017



Init: 00z Fri 15 Sep 2017
2017-09-15-04:05

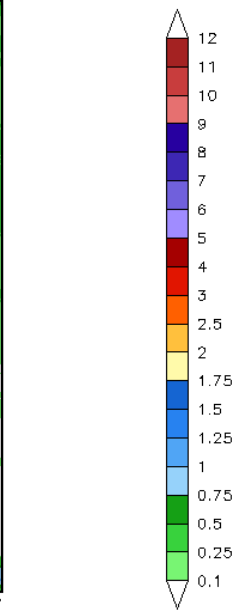
ECMWF-MAXRES 120 Hour Total Precipitation (in)
Valid: 00z Fri 15 Sep 2017 - 00z Wed 20 Sep 2017



Max: 11.9 in
Min: 0.0 in

StormVistaWxModels.com

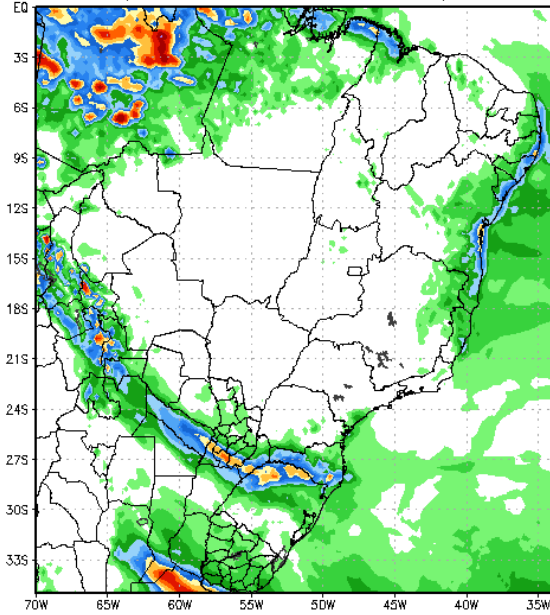
ECMWF-MAXRES 120 Hour Total Precipitation (in)
Hour: 0 - 120



Init: 00z Fri 15 Sep 2017
2017-09-15-06:20

6-10DAY GFS LEFT EURO RIGHT

120 Hour Total Precipitation (in)
Valid: 00z Wed 20 Sep 2017 - 00z Mon 25 Sep 2017



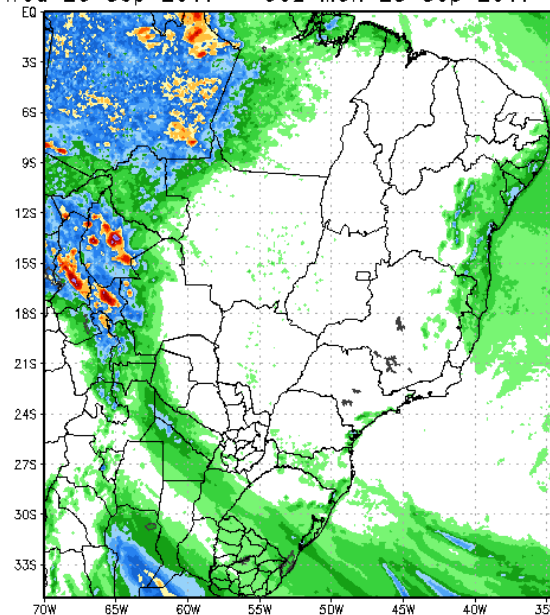
Max: 5.7 in
Min: 0.0 in

StormVistaWxModels.com

GFS-MAXRES
Hour: 120 - 240

Init: 00z Fri 15 Sep 2017
2017-09-15-04:40

120 Hour Total Precipitation (in)
Valid: 00z Wed 20 Sep 2017 - 00z Mon 25 Sep 2017



Max: 6.9 in
Min: -0.0 in

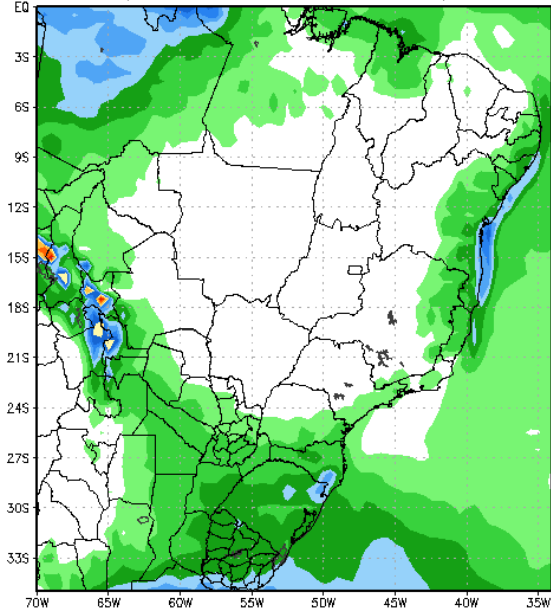
StormVistaWxModels.com

ECMWF-MAXRES
Hour: 120 - 240

Init: 00z Fri 15 Sep 2017
2017-09-15-06:55

6-10 DAY ENSEMBLES

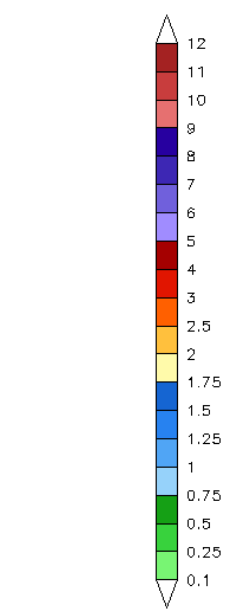
120 Hour Total Precipitation (in)
Valid: 00z Wed 20 Sep 2017 - 00z Mon 25 Sep 2017



Max: 3.4 in
Min: 0.0 in

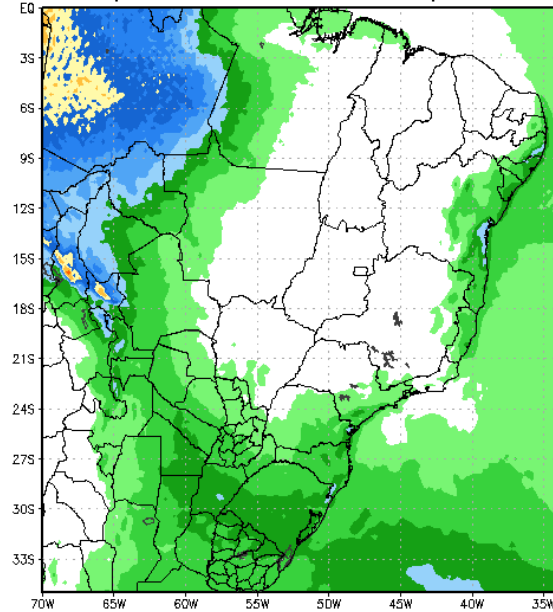
StormVistaWxModels.com

GFS-ENS-MAXRES
Hour: 120 - 240



Init: 00z Fri 15 Sep 2017
2017-09-15-05:18

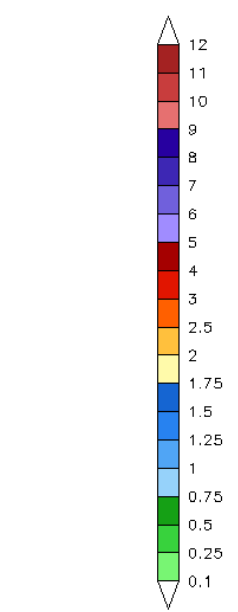
120 Hour Total Precipitation (in)
Valid: 00z Fri 22 Sep 2017 - 00z Wed 27 Sep 2017



Max: 3.0 in
Min: -0.0 in

StormVistaWxModels.com

ECMWF-EPS-MAXRES
Hour: 168 - 288

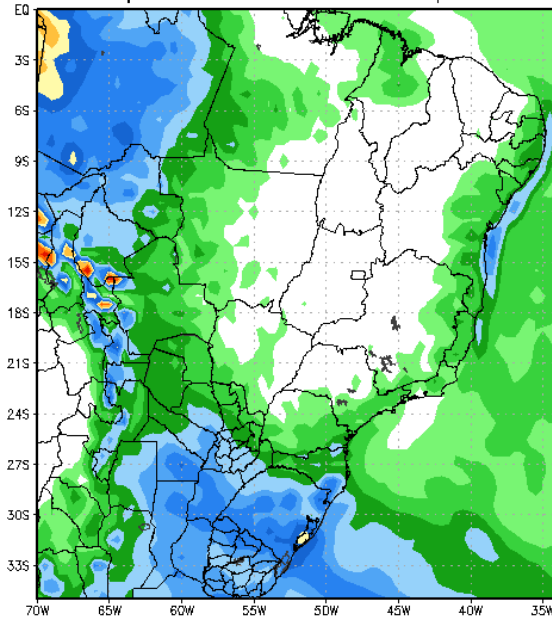


Init: 00z Fri 15 Sep 2017
2017-09-15-07:49

11 – 15 DAYS

GFS LEFT EURO RIGHT

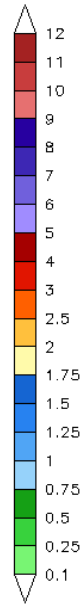
120 Hour Total Precipitation (in)
Valid: 00z Mon 25 Sep 2017 – 00z Sat 30 Sep 2017



Max: 3.7 in
Min: 0.0 in

StormVistaWxModels.com

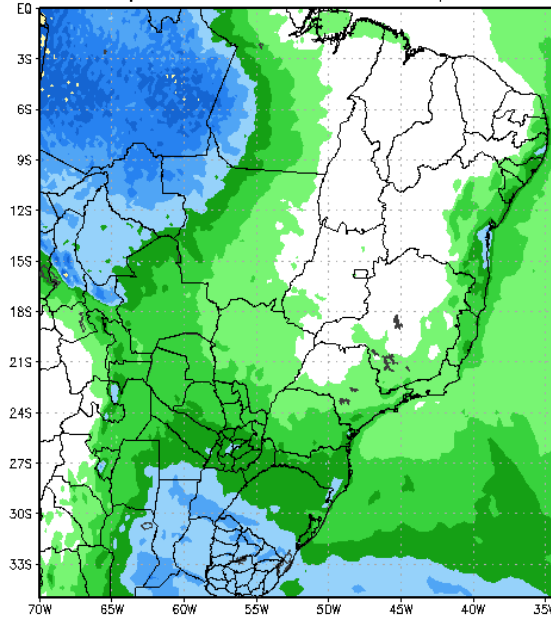
GFS-ENS-MAXRES 120 Hour Total Precipitation (in)
Hour: 240 – 360 Valid: 00z Mon 25 Sep 2017 – 00z Sat 30 Sep 2017



Init: 00z Fri 15 Sep 2017
2017-09-15-05:30

Max: 2.2 in
Min: 0.0 in

ECMWF-EPS-MAXRES 120 Hour Total Precipitation (in)
Hour: 240 – 360 Valid: 00z Mon 25 Sep 2017 – 00z Sat 30 Sep 2017

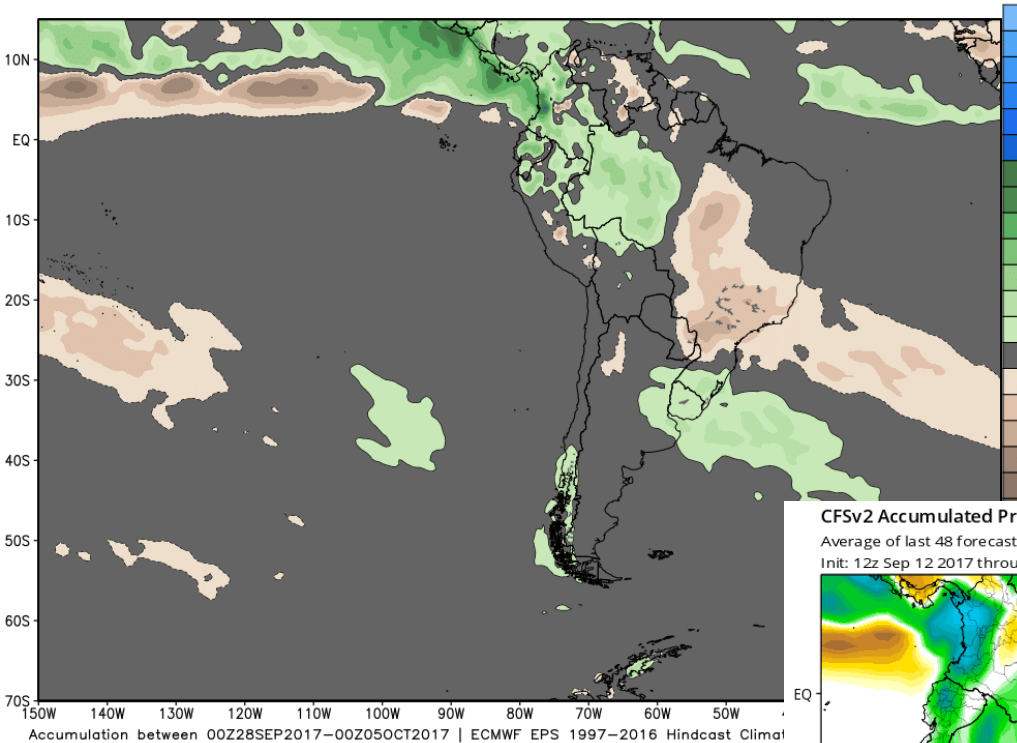


Init: 00z Fri 15 Sep 2017
2017-09-15-08:03

StormVistaWxModels.com

ECMWF EPS Ensemble Mean 7-day Avg Precipitation Anomaly [inch]
Init: 00Z14SEP2017 -- [252] hr --> Valid on Thu 00Z05OCT2017 Day 3.5 - Day 10.5

Min|Max Anom: -7.4 | 5.3 inch



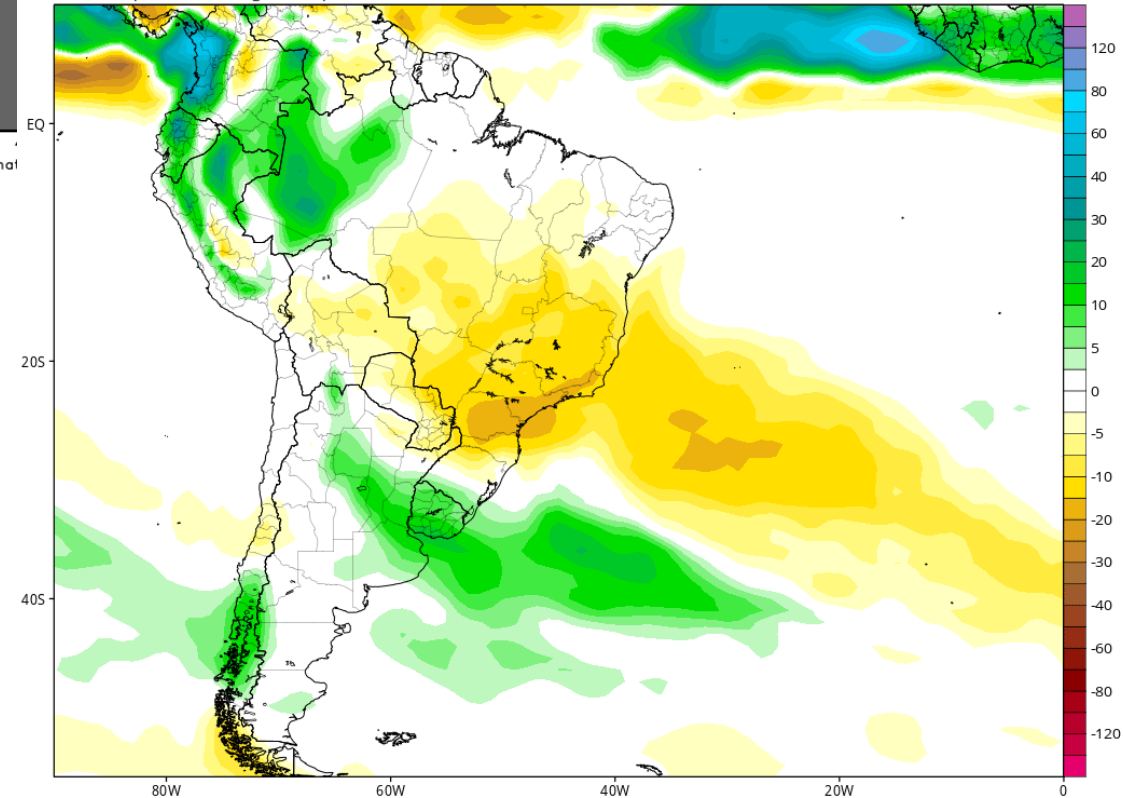
**EURO 1 WEEK OF
OCT WET IN ARG
DRY OVER MOST OF
BRAZIL**

CFSv2 Accumulated Precip. Anomaly (mm) from 06z29Sep2017 to 06z06Oct2017 (Days 15-21)

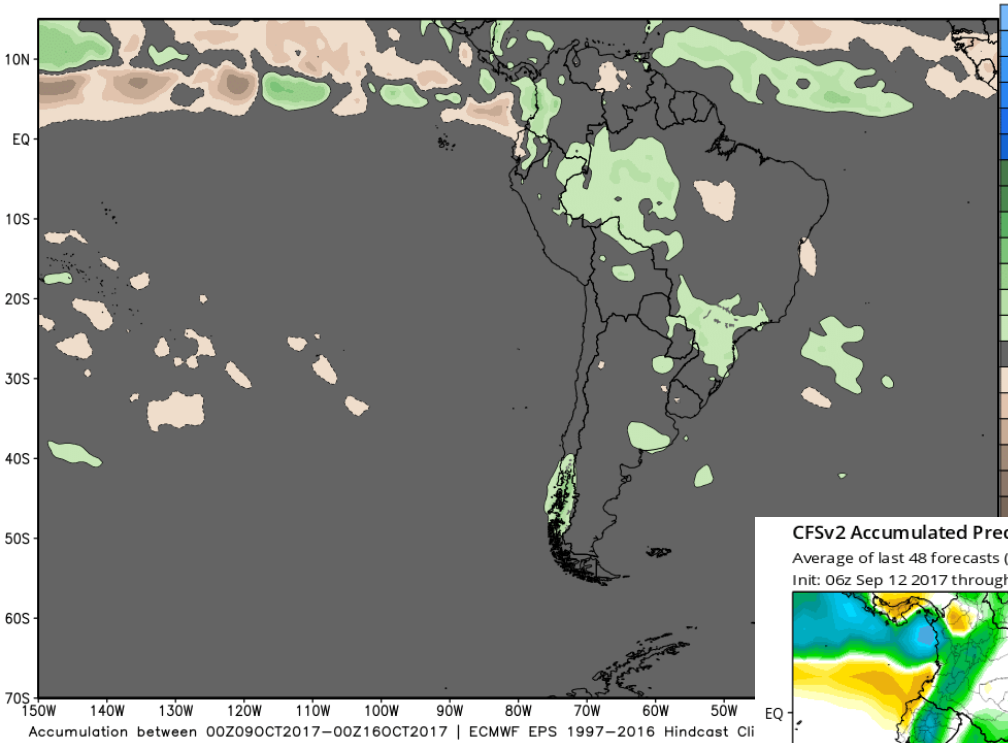
Average of last 48 forecasts (12 runs x 4 members)

Init: 12z Sep 12 2017 through 06z Sep 15 2017

TROPICALTIDBITS.COM

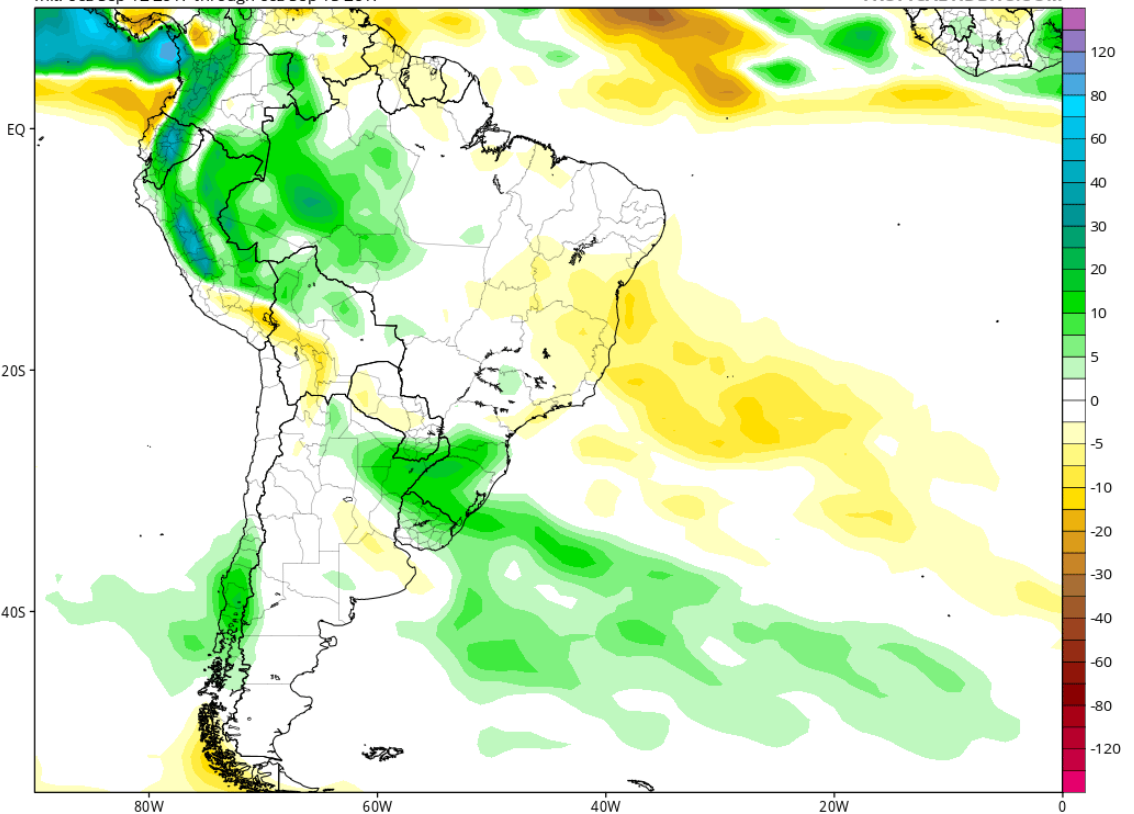


**CFS AGREES ...1
WEEK OF OCT WET
IN ARG DRY OVER
MOST OF BRAZIL**



**EURO by mid OCT
wetter over southern
Brazil**

CFSv2 Accumulated Precip. Anomaly (mm) from 00z13Oct2017 to 00z20Oct2017 (Days 29-35)
Average of last 48 forecasts (12 runs x 4 members)
Init: 06z Sep 12 2017 through 00z Sep 15 2017



**CFS WEETR INTO
SE BRAZIL BY 10/20
not as dry over rest
of Brazil**

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

