

**US SOUTH AMERICA
and OVERSEAS
GRAIN WEATHER
ISSUES**

5 MAY 2017



LOCATED in Richmond VA

Featured frequently on AGRI-MONEY

EMAIL WXRISK@VERZION .NET



@WXRISK.COM



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

804 307 8070



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.

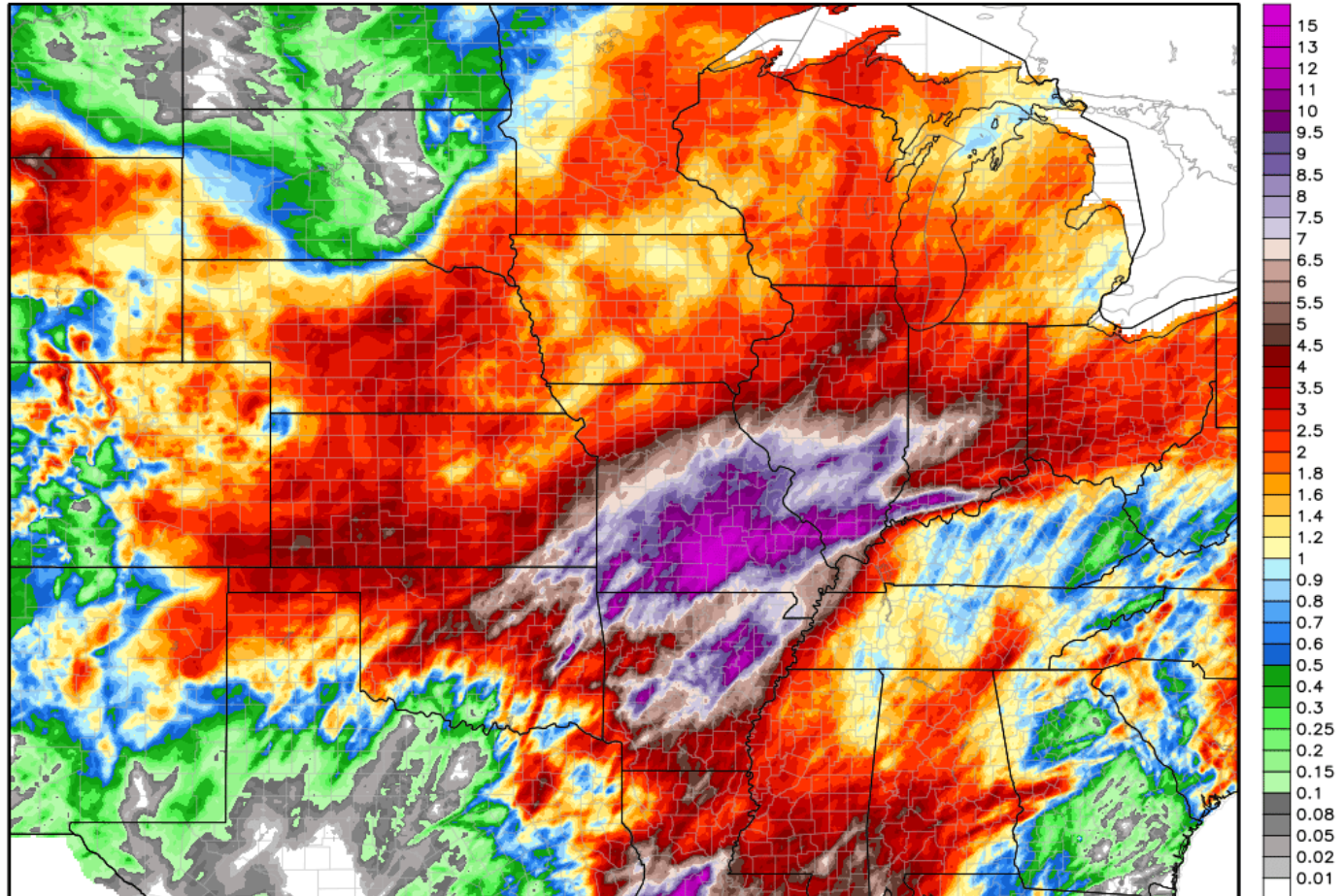
RAINFALL LAST 10 DAYS

**PURPLE
AREA=
10-15"
250-300mm**

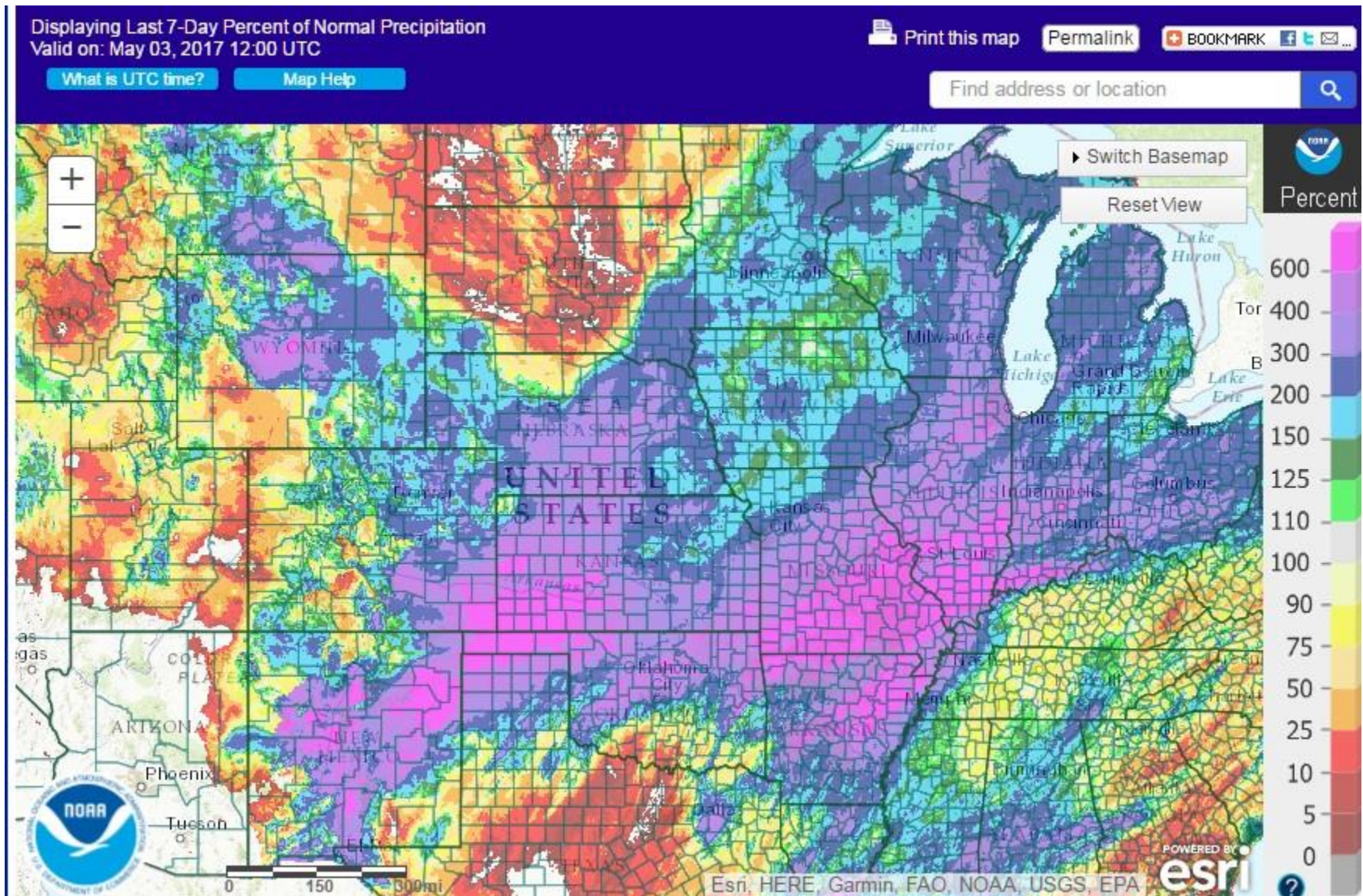
**BROWN
TAN COLOR
6-10" 150-
300mm**

NWS Precipitation Analysis 4-km HRAP Grid -- 10-day Total Accumulation
Total Precipitation [inches] between 12Z24APR2017 -- 12Z04MAY2017

Domain Max: 16.2 in.



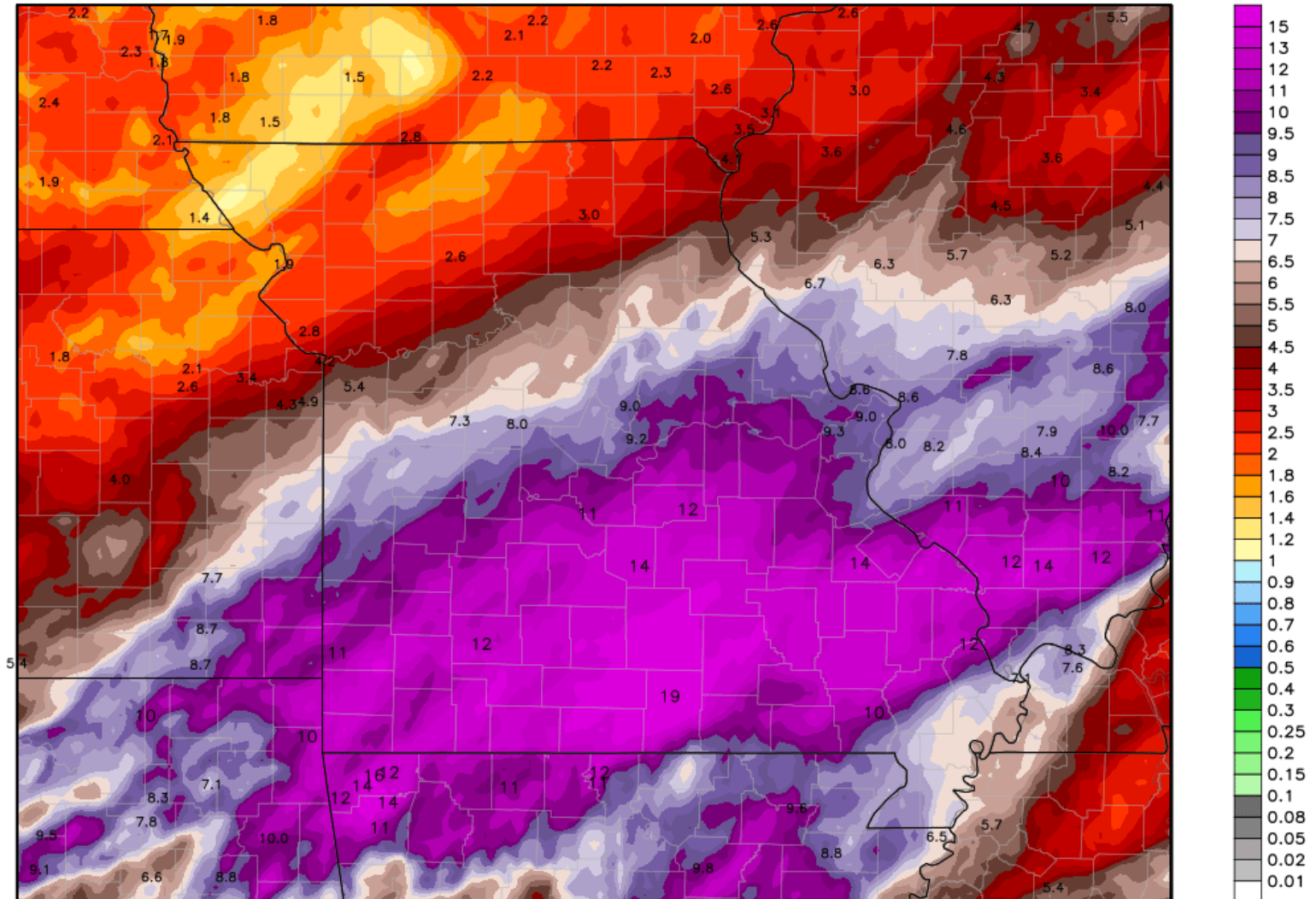
PRECIP ANOMALIES LAST 7 DAYS



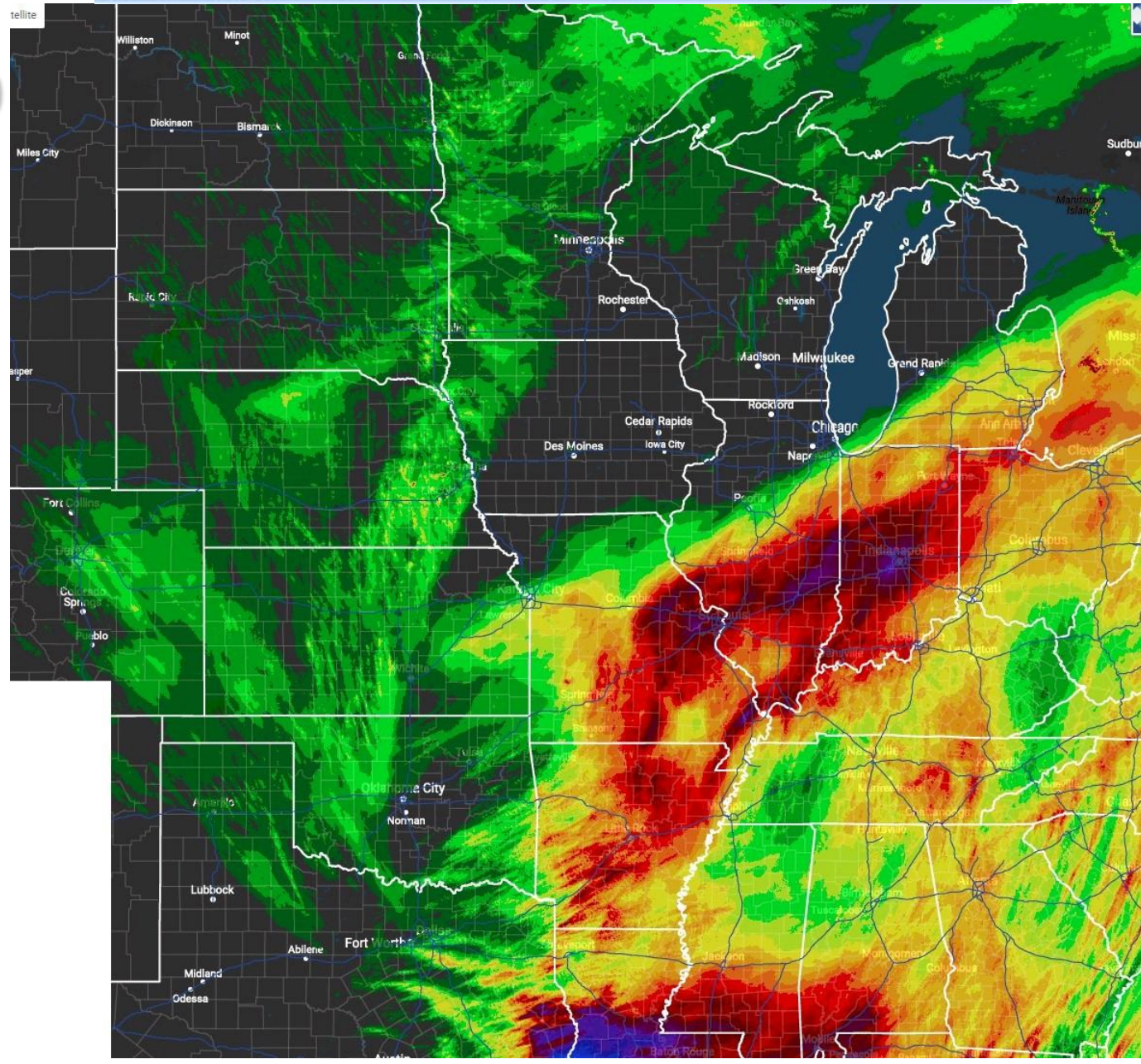
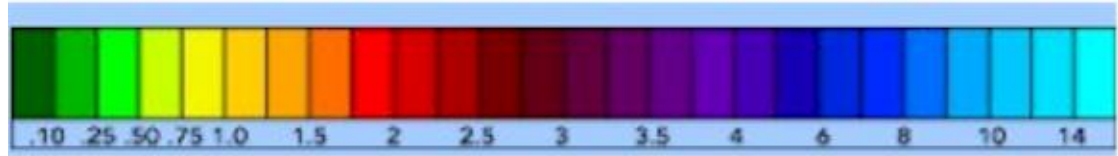
RAINFALL LAST 14 DAYS **yes that 14"** in some places

NWS Precipitation Analysis 4-km HRAP Grid -- 14-day Total Accumulation
Total Precipitation [inches] between 12Z20APR2017 -- 12Z04MAY2017

Domain Max: 19.5 in.

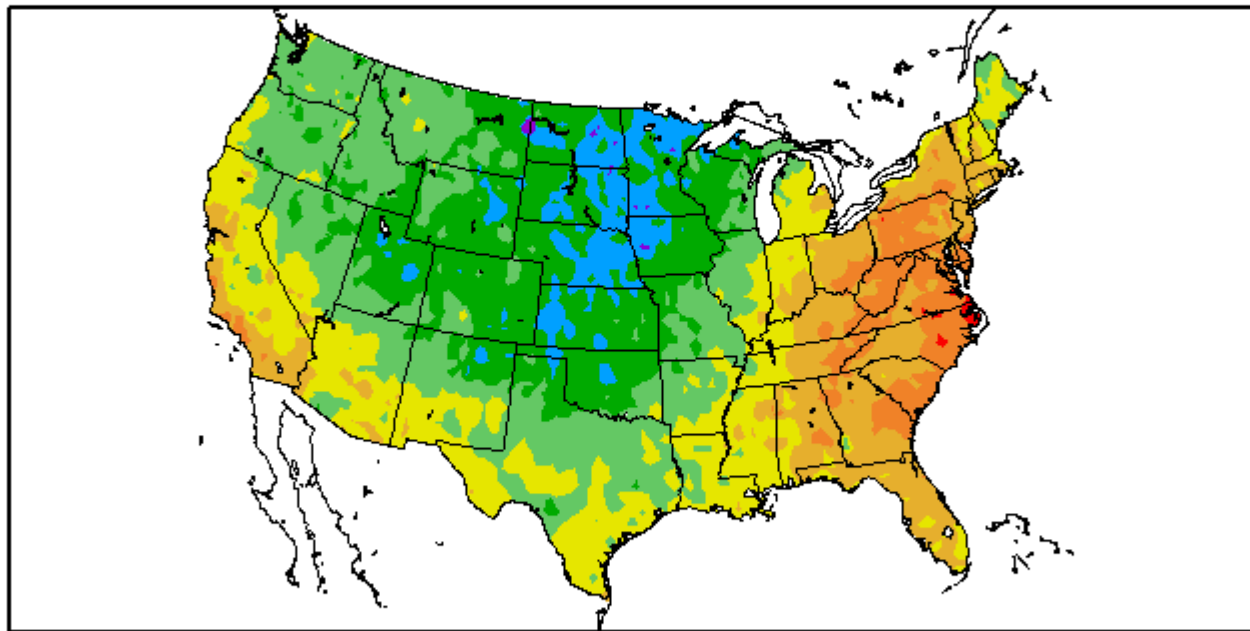


RAINFALL LAST 24 hrs Ending 0700 cdt 5 MAY



TEMP ANOMALIES LAST 14 DAYS

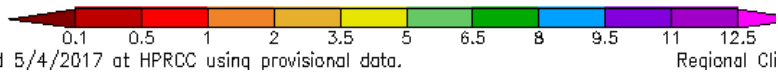
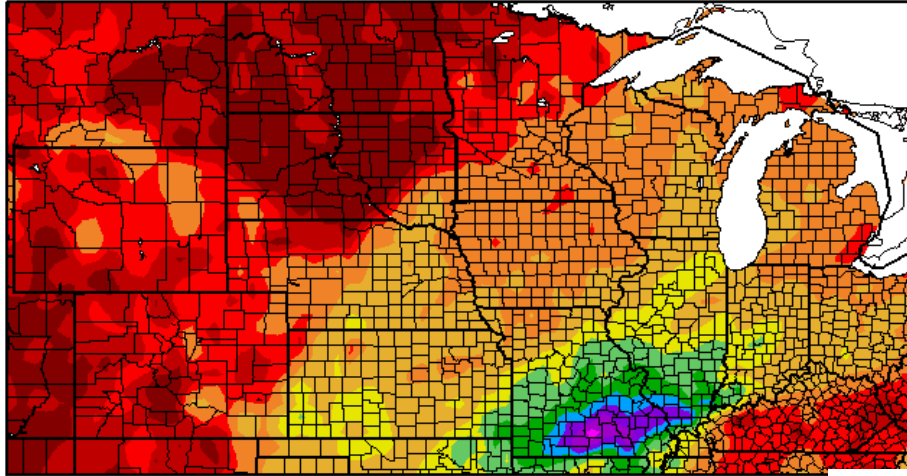
Departure from Normal Temperature (F)
4/20/2017 - 5/3/2017



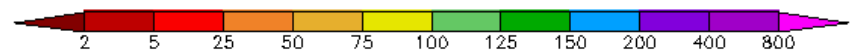
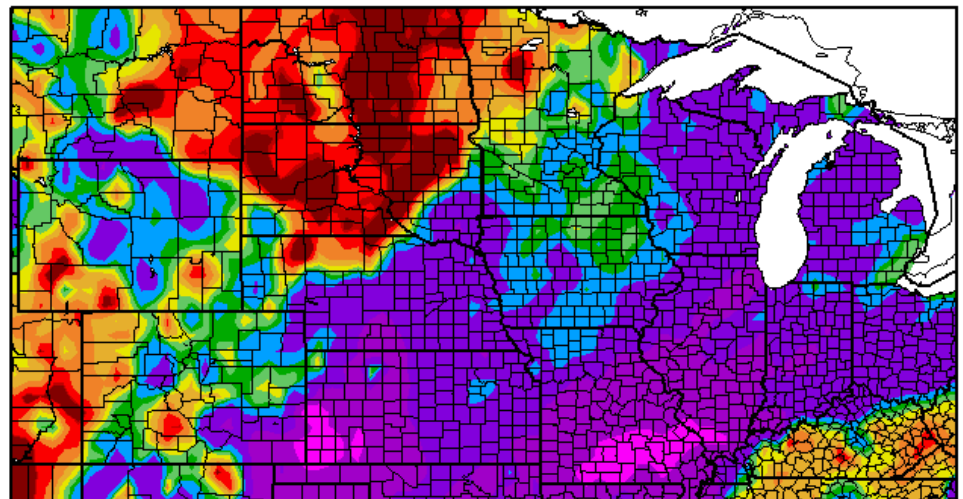
Generated 5/4/2017 at HPRCC using provisional data.

Regional Climate Centers

Precipitation (in)
4/27/2017 - 5/3/2017

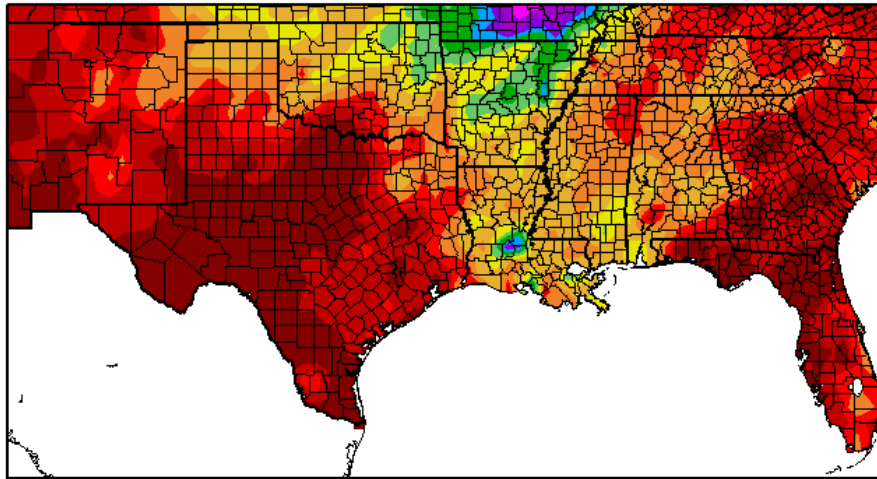


Percent of Normal Precipitation (%)
4/27/2017 - 5/3/2017



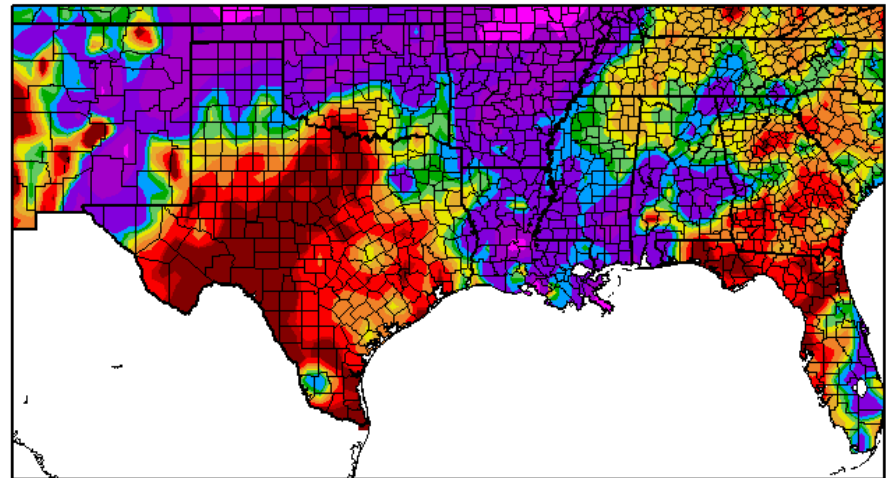
Generated 5/4/2017 at HPRCC using provisional data. Regional Climate Centers

Precipitation (in)
4/27/2017 - 5/3/2017



Generated 5/4/2017 at HPRCC using provisional data. Regional Climate Center

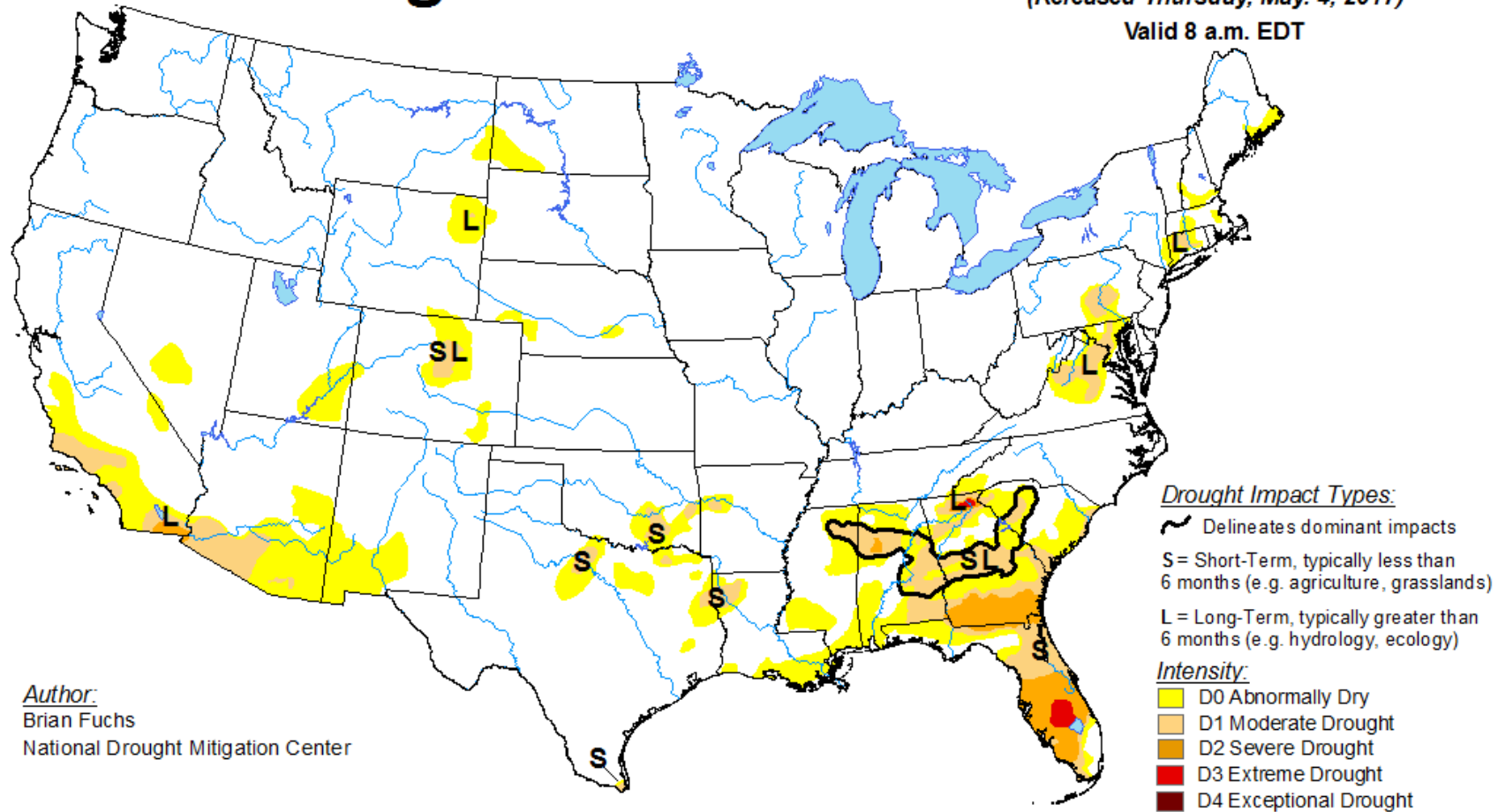
Percent of Normal Precipitation (%)
4/27/2017 - 5/3/2017



Generated 5/4/2017 at HPRCC using provisional data. Regional Climate Centers

U.S. Drought Monitor

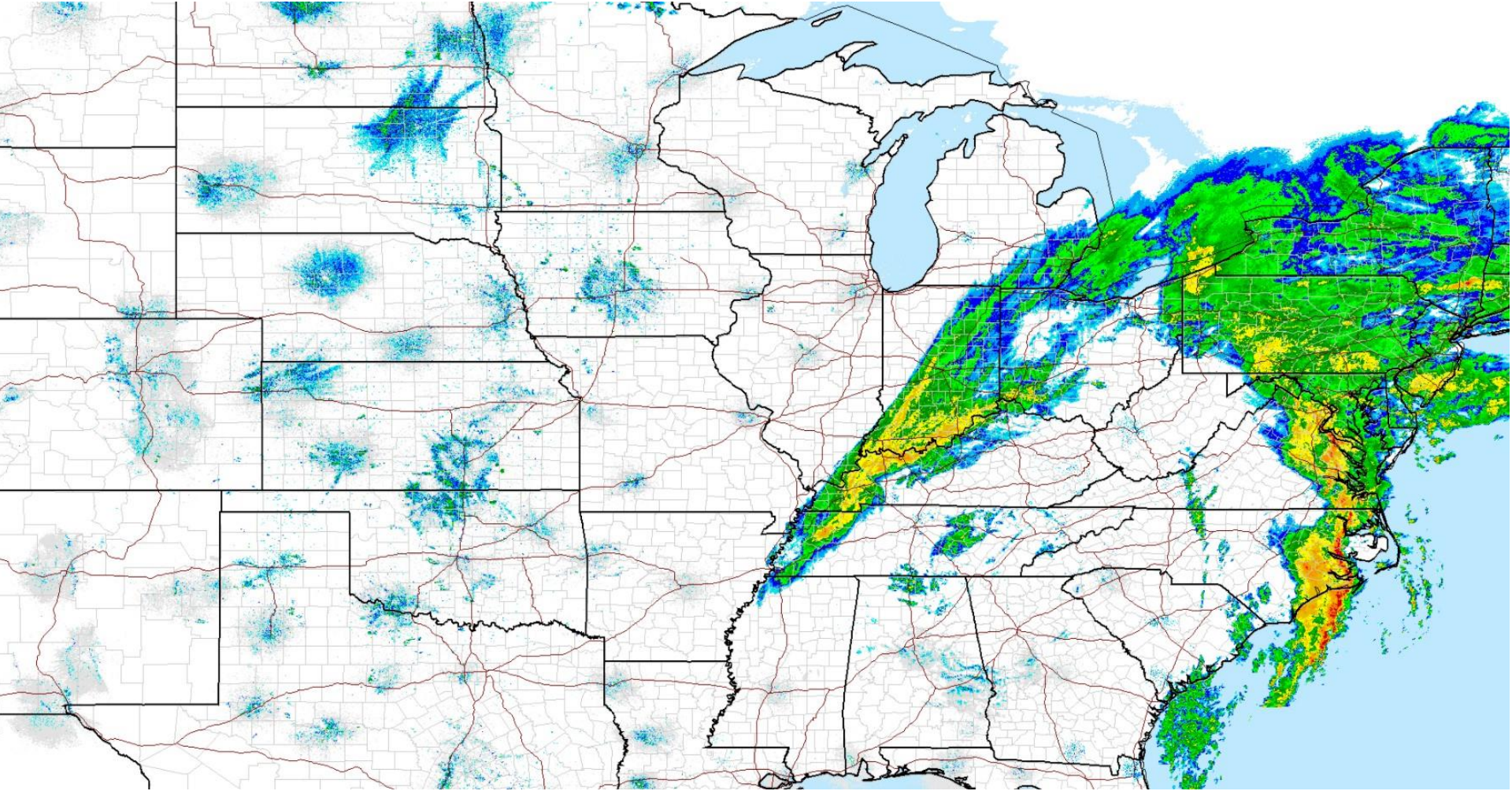
May 2, 2017
(Released Thursday, May. 4, 2017)
Valid 8 a.m. EDT



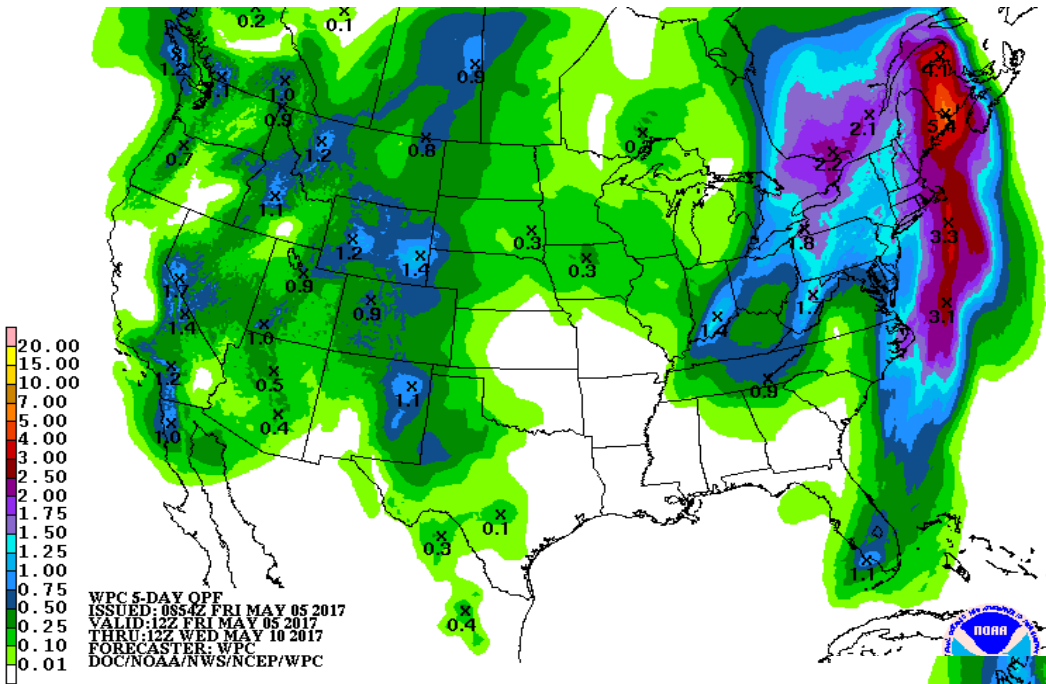
Author:
Brian Fuchs
National Drought Mitigation Center

**BIG IMPROVEMENT
over MANY AREAS**

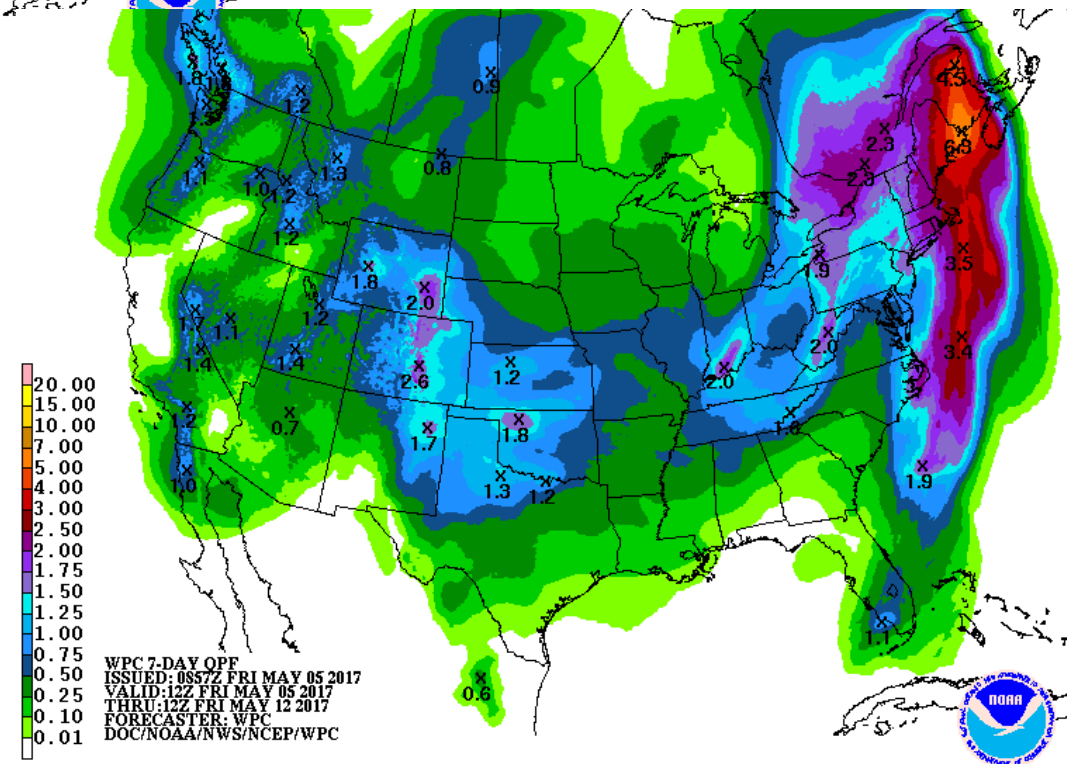
FRI AM RADAR



NWS OFFICIAL RAINFALL NEXT 5 DAYS



**NWS OFFICIAL
RAINFALL NEXT 7
DAYS - note NEW
RAINS into KS OK
north TX**



LARGE SCALE UPPER AIR – 500 MB MAP OF Northern Hemisphere

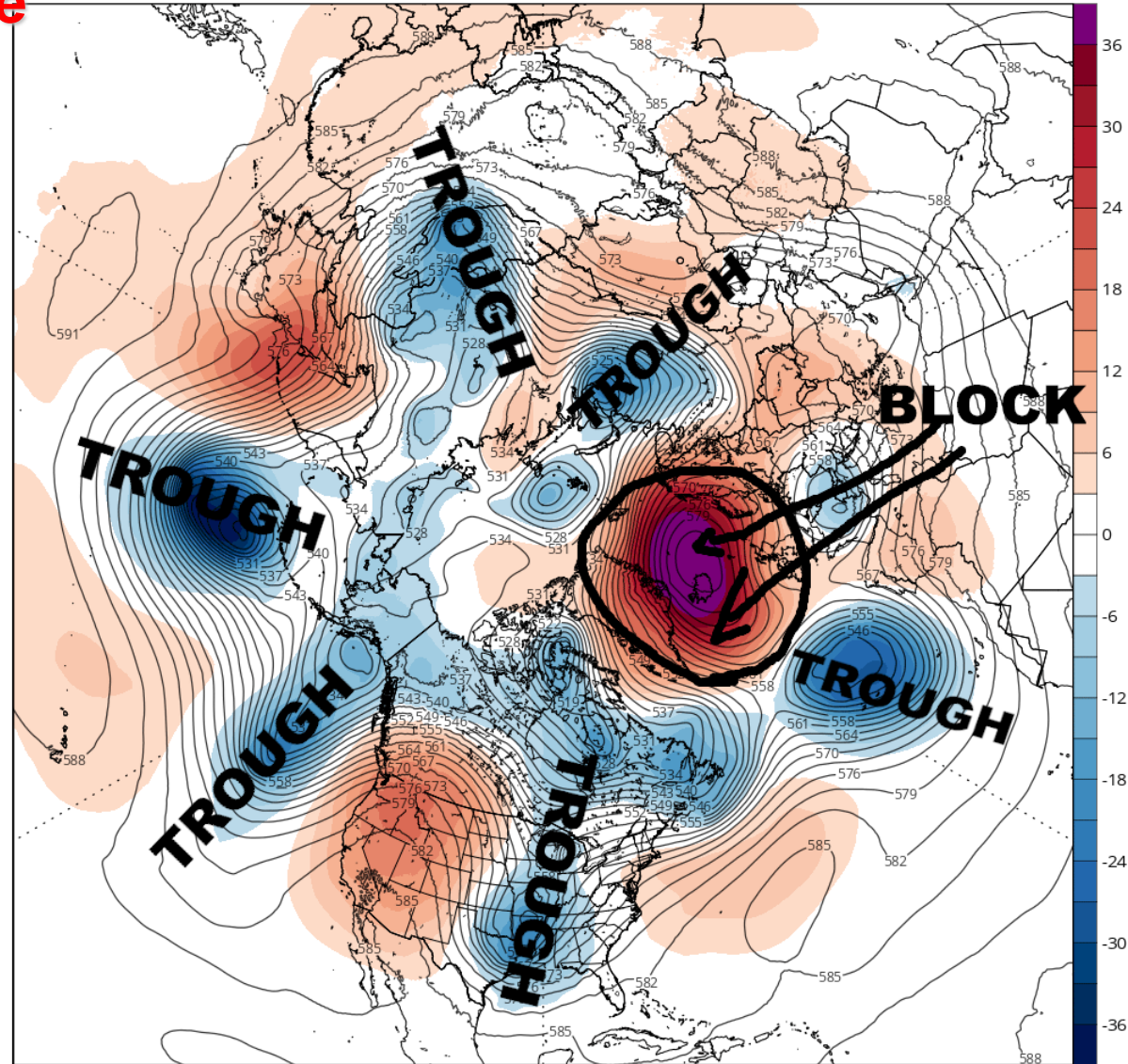
GFS 500mb Geopotential Height & Anomaly (dam) (based on CFSR 1981-2010 Climatology)
Unit: 12z May 04 2017 [Analysis] valid at 12z Thu, May 04 2017

TROPICALTIDBITS.COM

**BLOCK PATTERN
OVER GREENLAND
ICELAND...**

**Notice the Numerous
troughs around the
globe...**

**eastern Asia
|central pacific
eastern pacific**

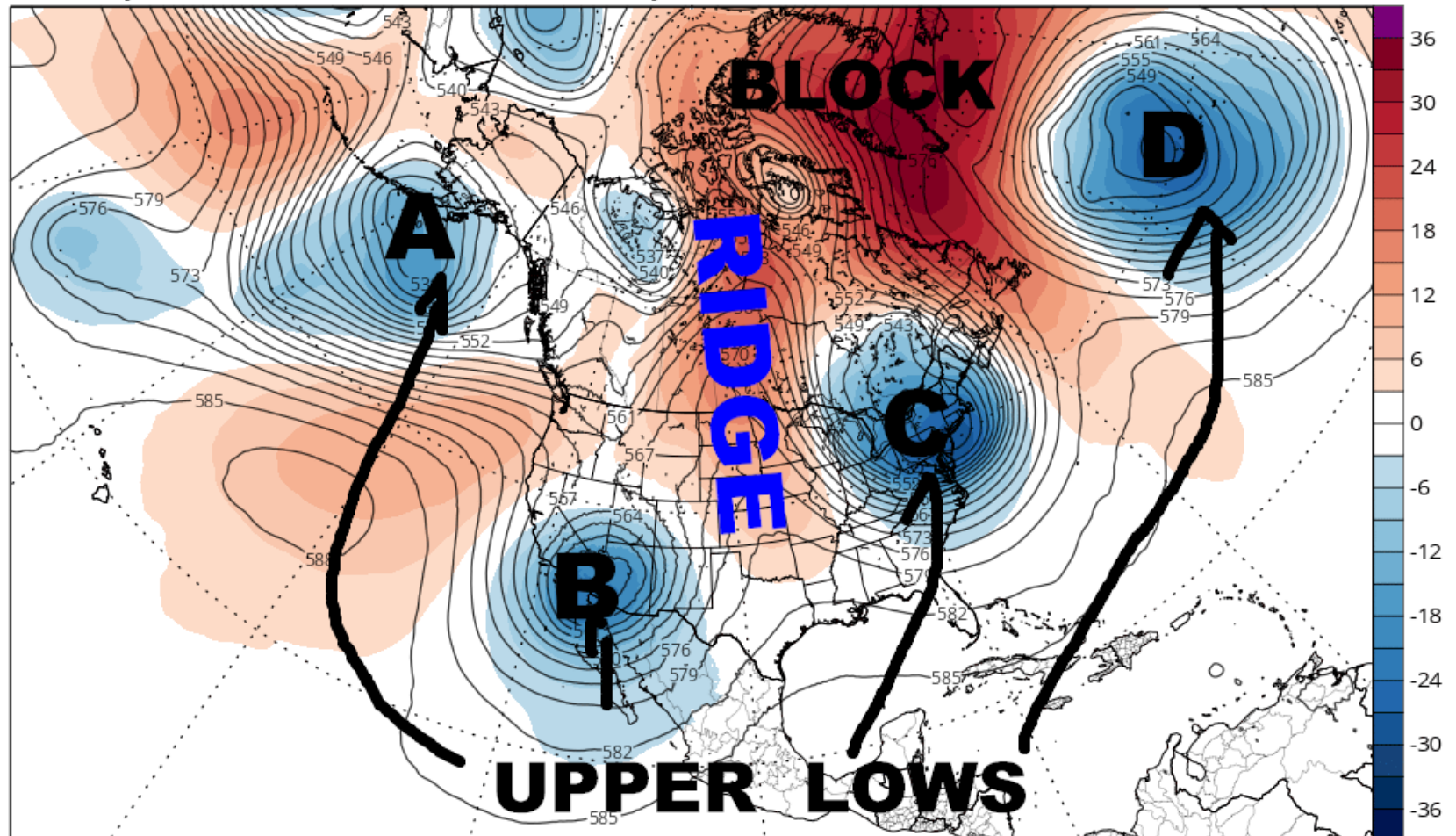


LARGE SCALE UPPER AIR – 500 MB MAP OF North America -- 3 key features Upper Low “B” Uppr Low “C” and the RIDGE over the Plains

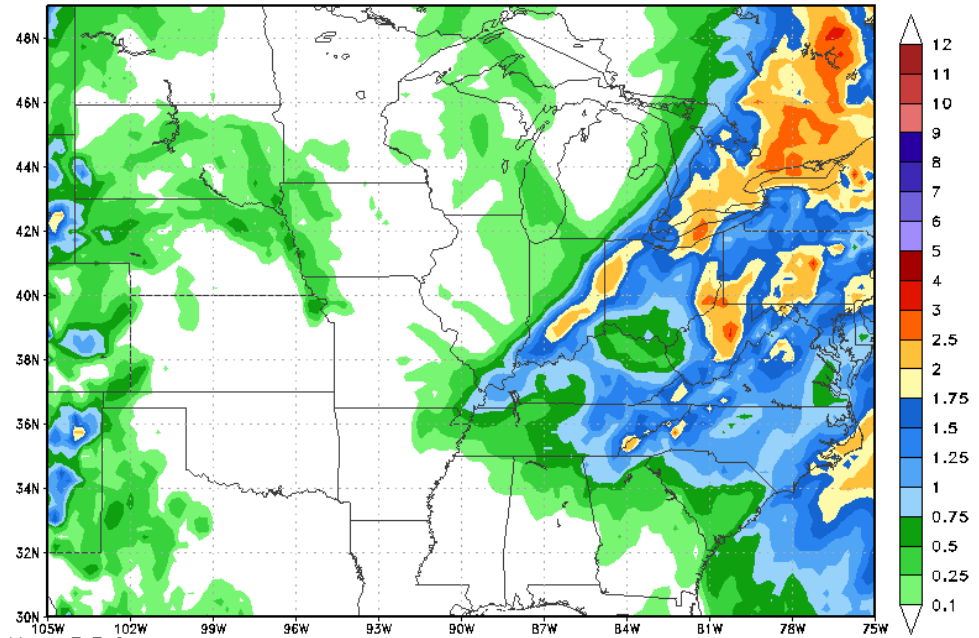
GFS 500mb Geopotential Height & Anomaly (dam) (based on CFSR 1981-2010 Climatology)

Init: 12z May 04 2017 Forecast Hour: [96] valid at 12z Mon, May 08 2017

TROPICALTIDBITS.COM



120 Hour Total Precipitation (in) GFS-MAXRES
Valid: 00z Fri 05 May 2017 - 00z Wed 10 May 2017 Hour: 0 - 120

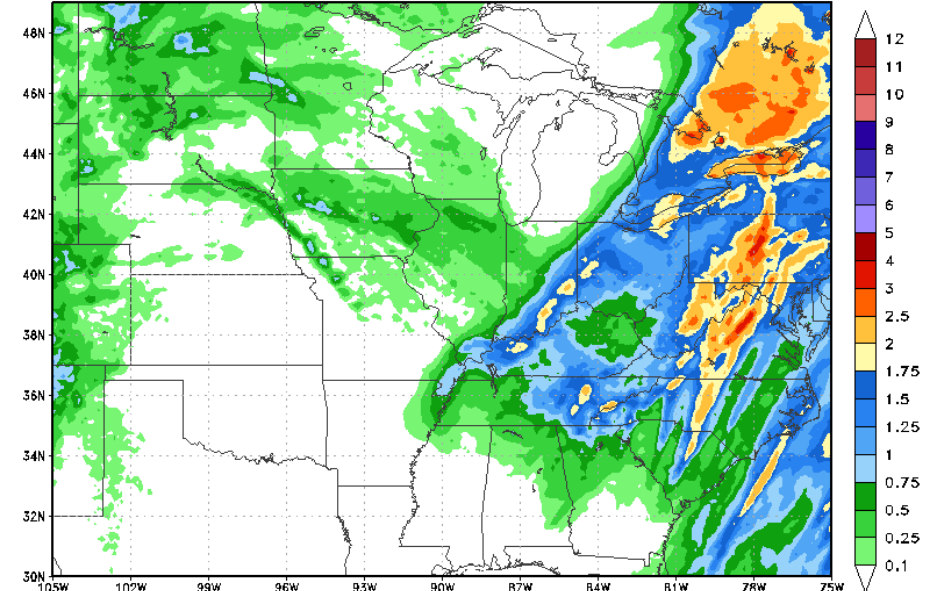


Max: 3.3 in
Min: 0.0 in
StormVistaWxModels.com

Init: 00z Fri 05 May 2017
2017-05-05-04:11

**Most of this rain over
ECB & EAST COAST
falls over next 24 hrs**

ECMWF-MAXRES
120 Hour Total Precipitation (in)
Valid: 00z Fri 05 May 2017 - 00z Wed 10 May 2017 Hour: 0 - 120



Max: 4.1 in
Min: 0.0 in
StormVistaWxModels.com

Init: 00z Fri 05 May 2017
2017-05-05-06:20

6-10DAY ALL MODELS MUCH WETTER

120 Hour Total Precipitation (in)

Valid: 00z Wed 10 May 2017 - 00z Mon 15 May 2017

GFS-MAXRES

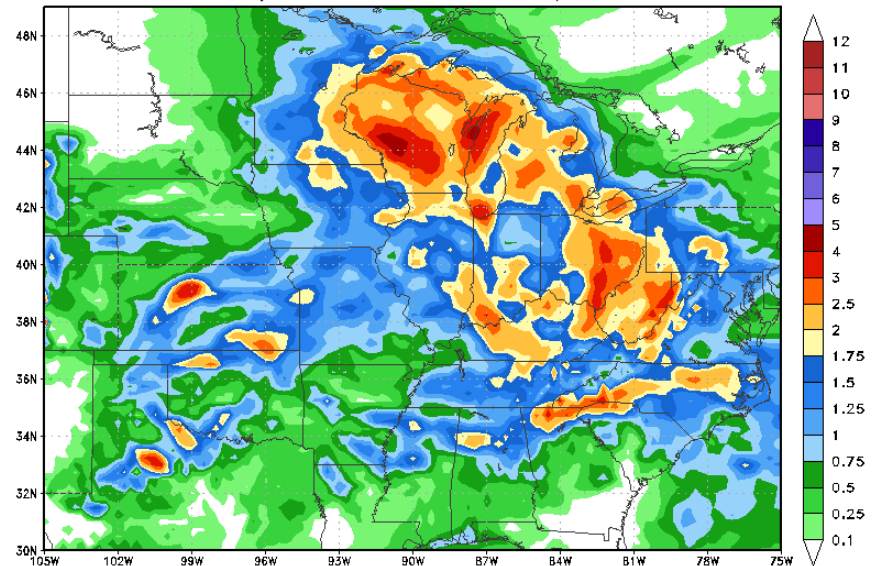
Hour: 120 - 240

120 Hour Total Precipitation (in)

Valid: 00z Wed 10 May 2017 - 00z Mon 15 May 2017

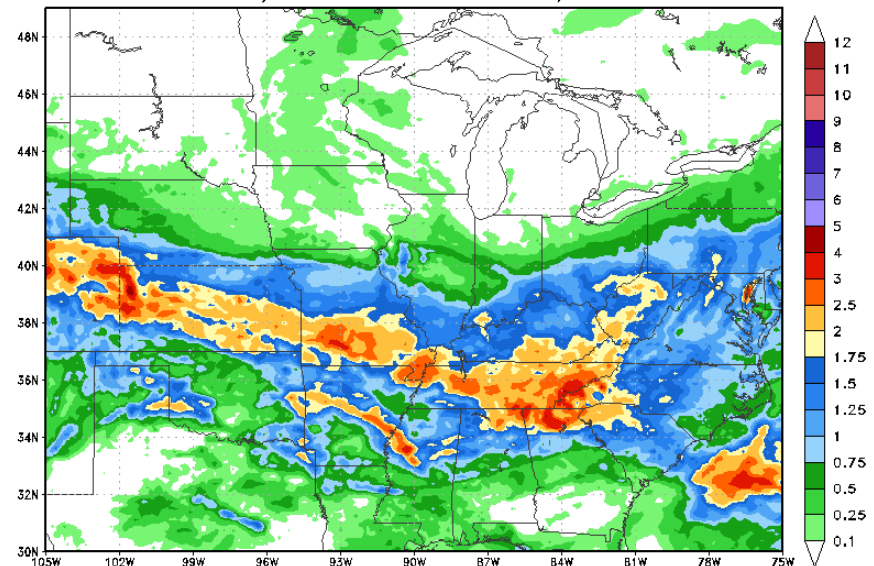
ECMWF-MAXRES

Hour: 120 - 240



Max: 4.6 in
Min: 0.0 in

StormVistaWxModels.com



Max: 4.8 in

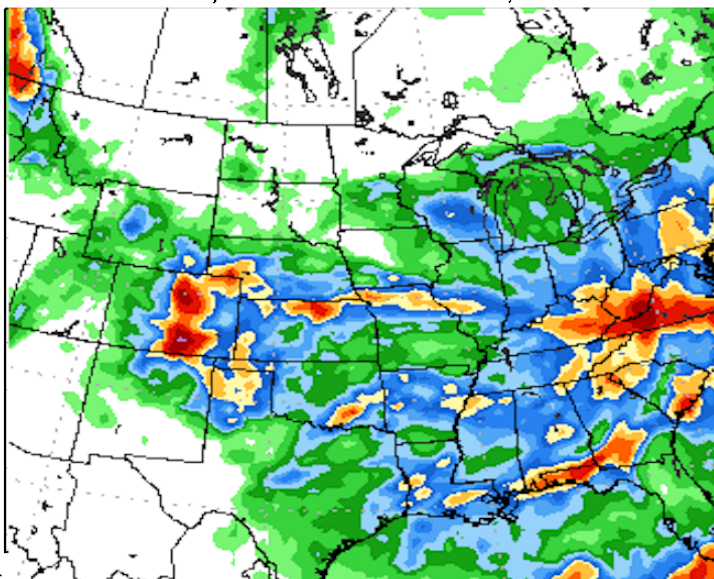
Init: 00z Fri 05 May 2017
2017-05-05-0555

5 Day Total Precipitation (in)

Valid: 00z Wed 10 May 2017 - 00z Mon 15 May 2017

Hour: 120 - 240

CMC



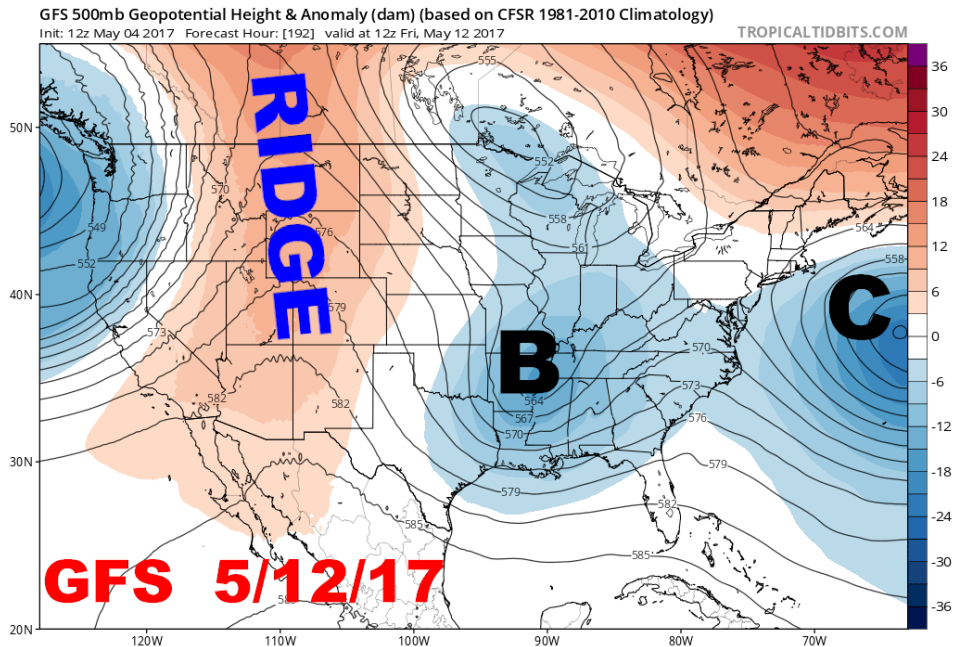
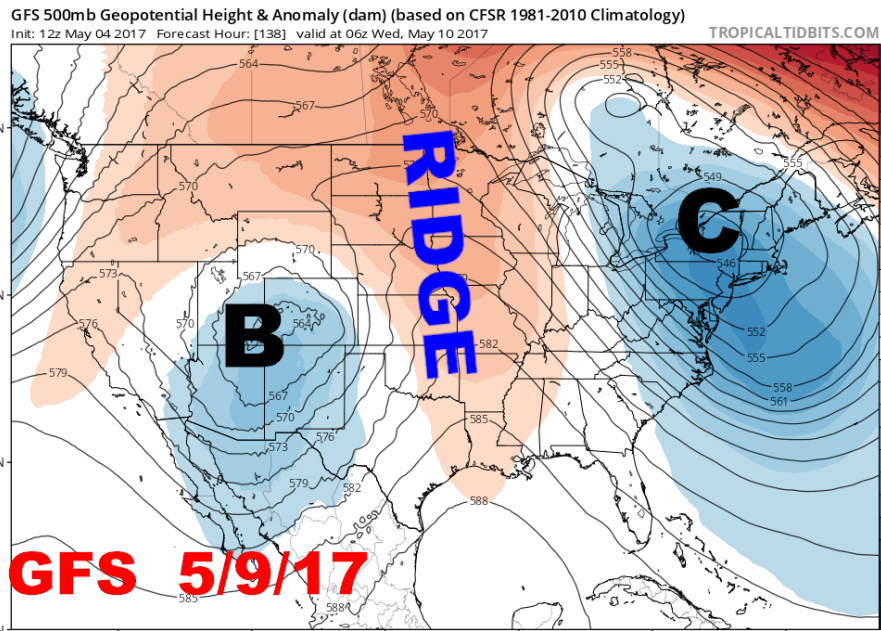
Max:
Min: 0.0 in

StormVistaWxModels.com

Init: 00z Fri 05 May 2017
2017-05-05-0035

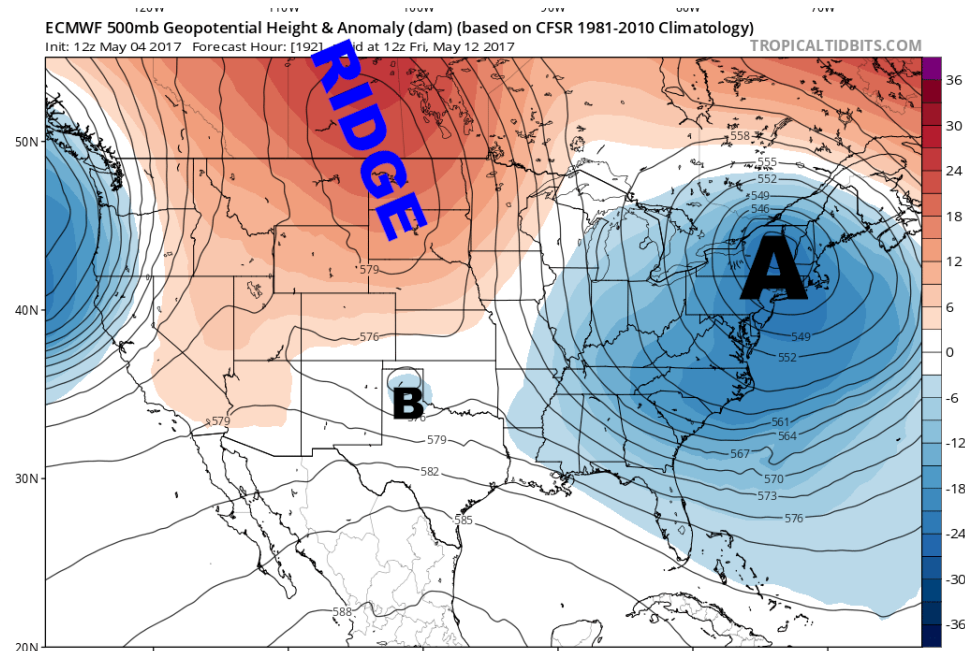
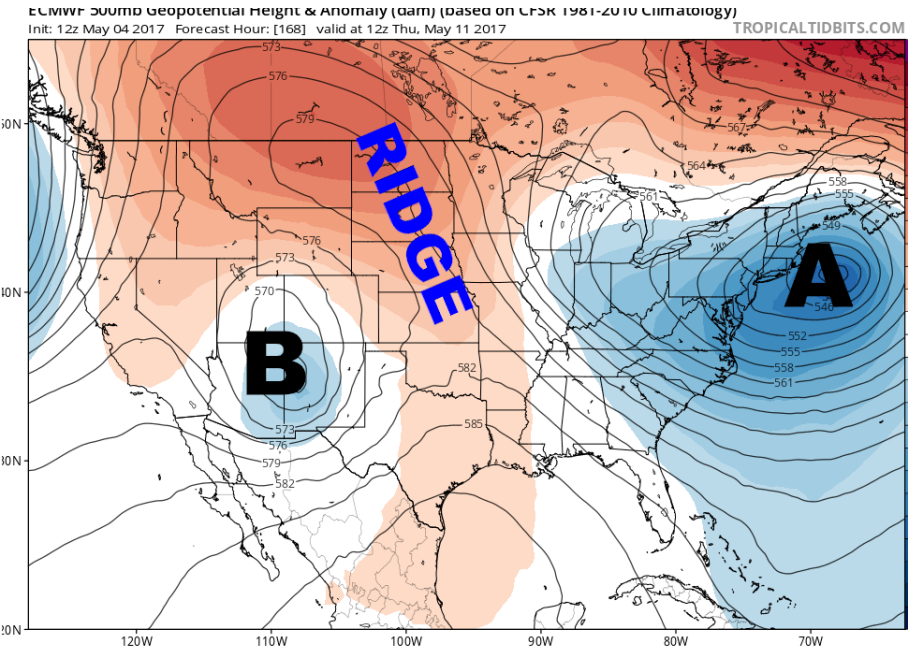
EURO has done another "flip flop" for the 6-10DAY - model agreement is very good for 6-10D

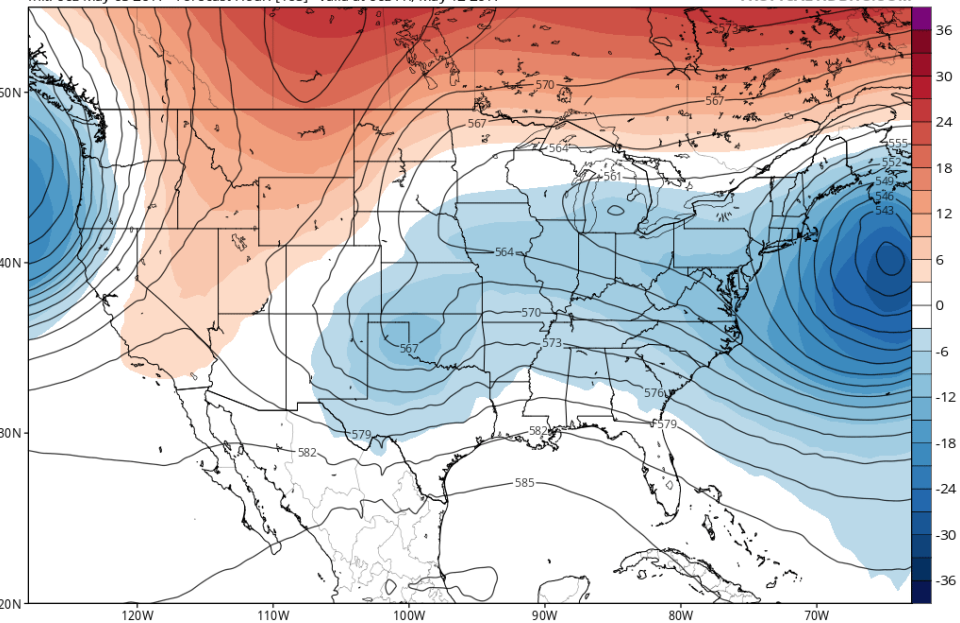
THE UNCERTAINTY IN THE 6-10DAY ...HAS TO UPPER LOW "B" OVER THE ROCKIES AND WHAT HAPPENS TO IT WHEN CROSSES THE " RIDGE"



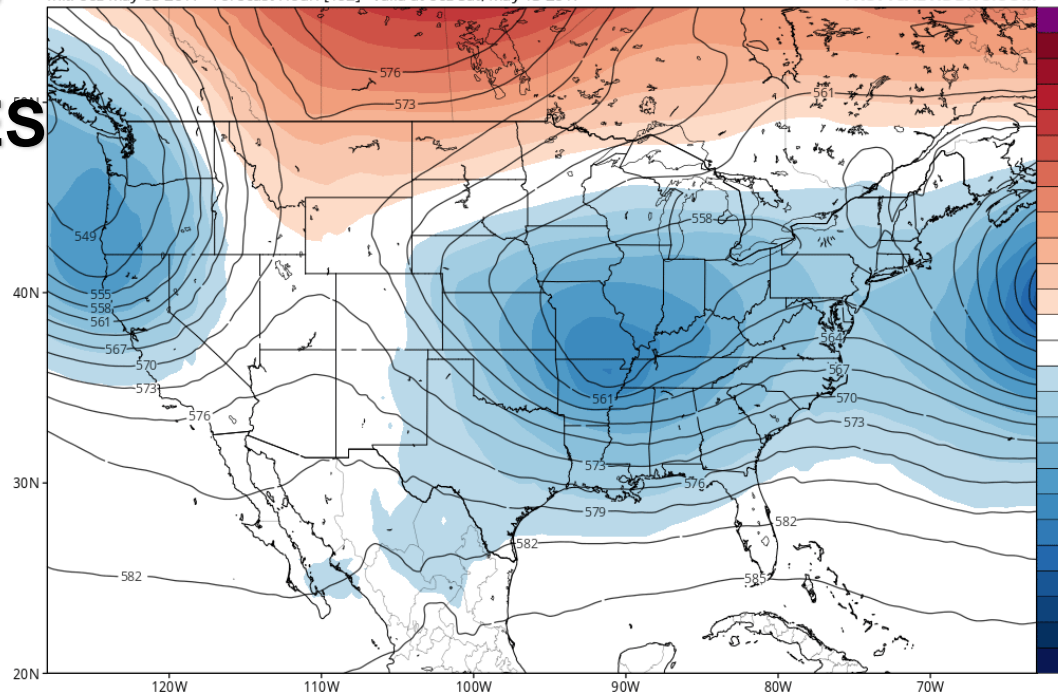
IF UPPER LOW "B" COMES OUT "STRONG" =
MORE RAIN for central Plains and Midwest. If it
coems out weak = DRY

THURSDAY EURO WEAKENS UPPER LOW "B" = HENCE A DRY 6-10 DAY

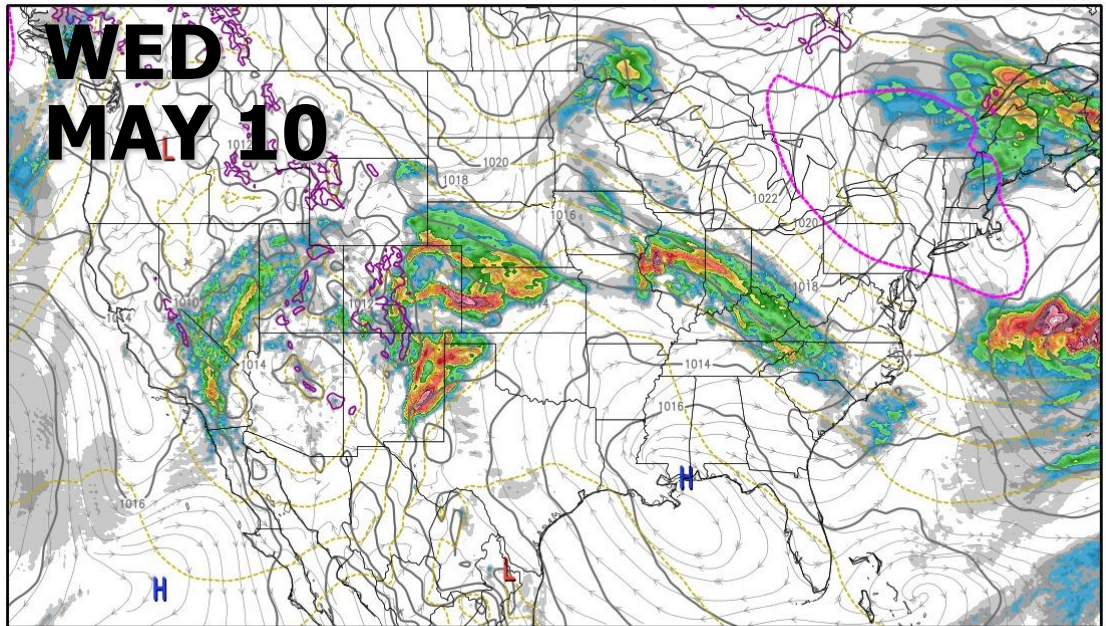




**0Z FRIDAY EURO HAS
UPPER LOW "B" MUCH
STRONGER AS IT MOVES
INTO PLAINS = MORE
RAIN EVENT FOR
CENTRAL PLAINS &
LOWER MIDWEST**

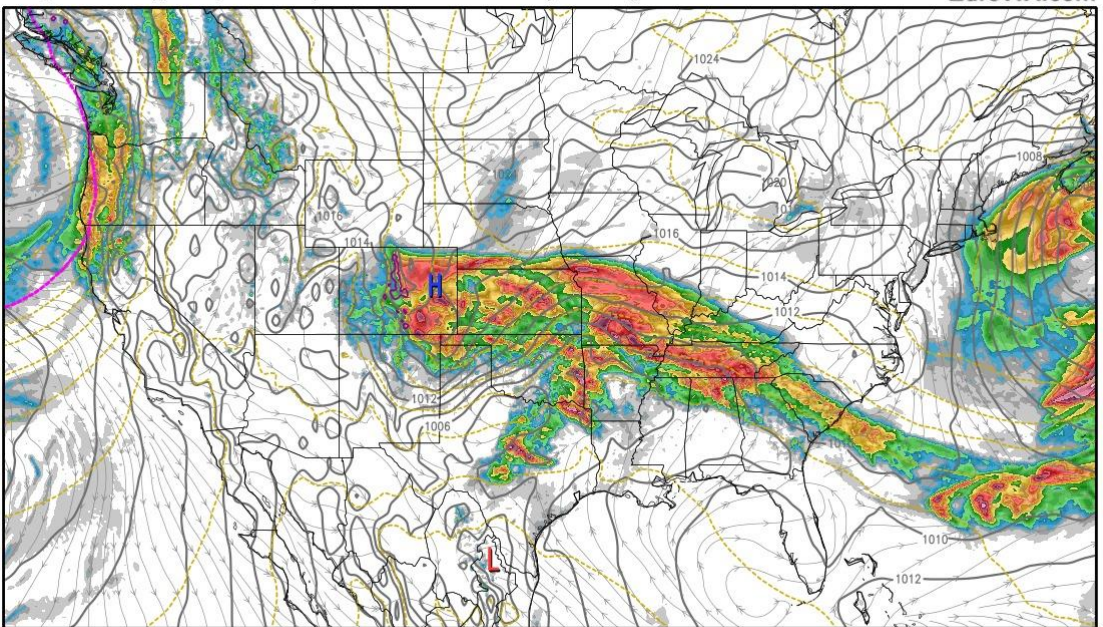


WED MAY 10



ECMWF HRES MODEL RUN 00Z 05/05 132hr FORECAST C 2017 ECMWF
 This service is based on data and products of the European Center for Medium-range Weather Forecasts.

WED MAY 12

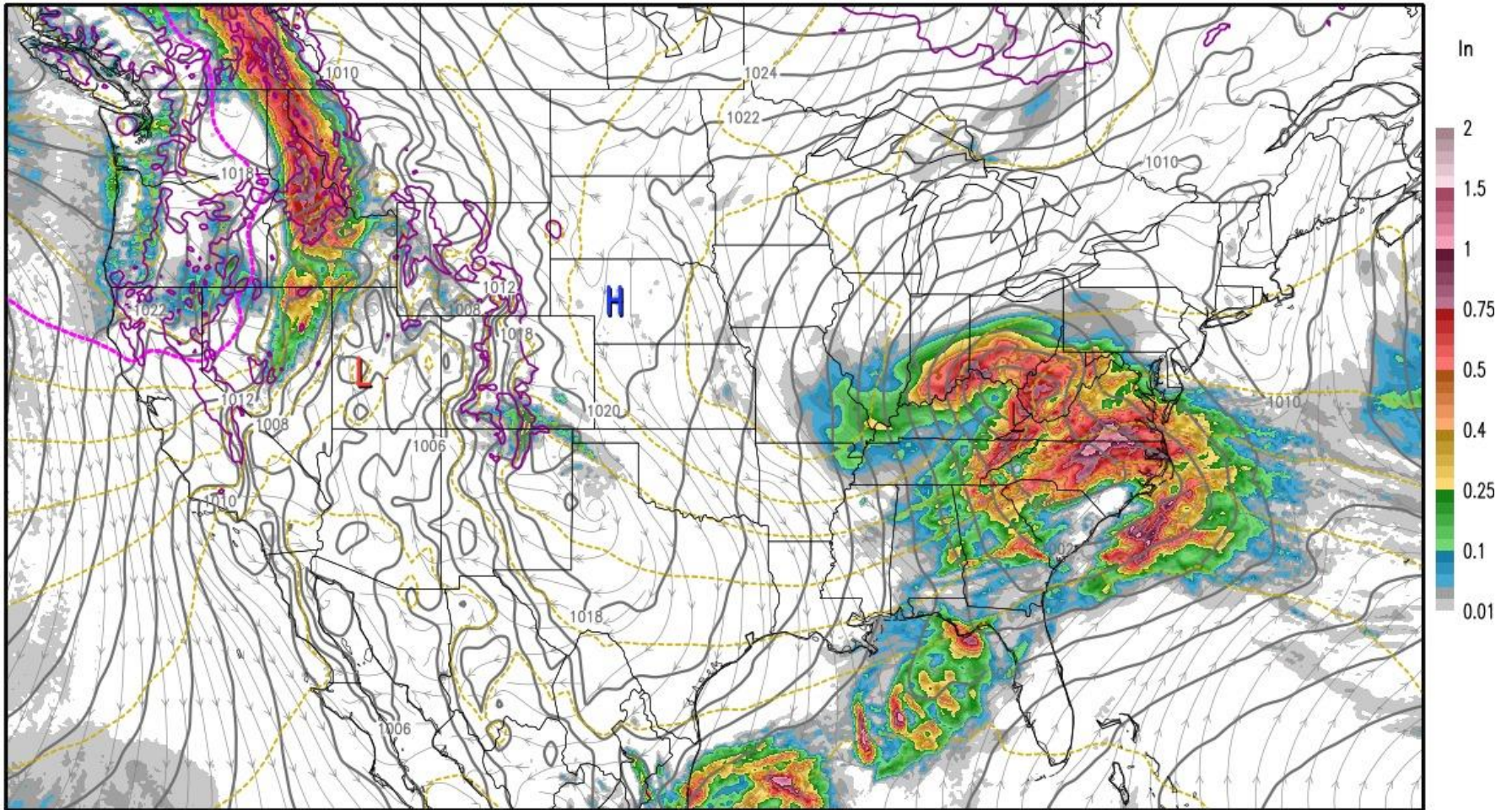


ECMWF HRES MODEL RUN 00Z 05/05 168hr FORECAST C 2017 ECMWF
 This service is based on data and products of the European Center for Medium-range Weather Forecasts.

MSLP, 12hr Precip, Wind, Thickness, 32f

Valid Saturday 12Z 05/13

EuroWX.com



ECMWF HRES MODEL RUN 00Z 05/05 204hr FORECAST

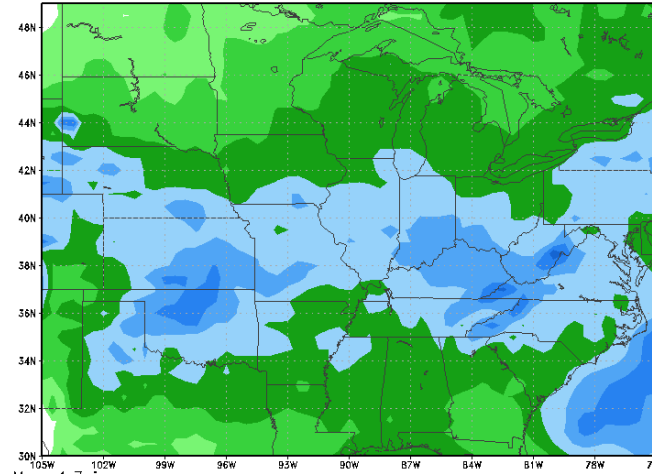
© 2017 ECMWF

This service is based on data and products of the European Center for Medium-range Weather Forecasts.

6-10DAY GFS / EURO CANADIAN ENSEMBLES SUPPORT WETTER 6-10 DAY SOLUTION

120 Hour Total Precipitation (in)

Valid: 00z Wed 10 May 2017 - 00z Mon 15 May 2017



Max: 1.7 in
Min: 0.0 in

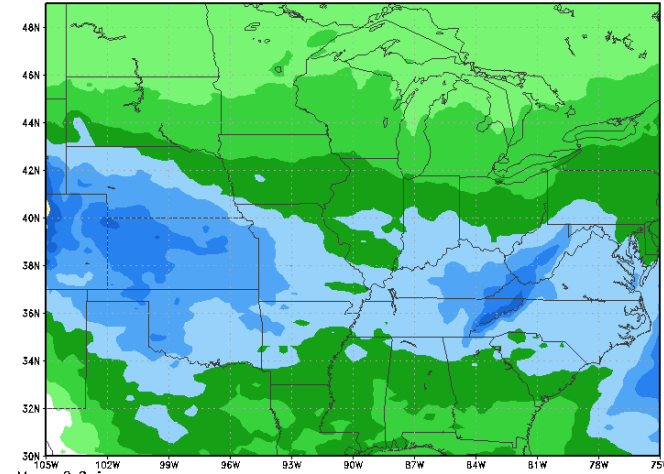
StormVistaWxModels.com

GFS-ENS-MAXRES

Hour: 120 - 240

120 Hour Total Precipitation (in)

Valid: 00z Wed 10 May 2017 - 00z Mon 15 May 2017



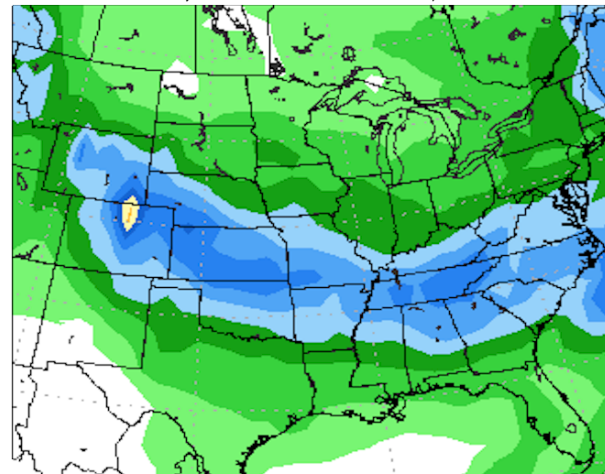
Max: 2.0 in

ECMWF-EPS-MAXRES

Hour: 120 - 240

5 Day Total Precipitation (in)

Valid: 00z Wed 10 May 2017 - 00z Mon 15 May 2017



Max:
Min: 0.0 in

StormVistaWxModels.com

CMC-ENS

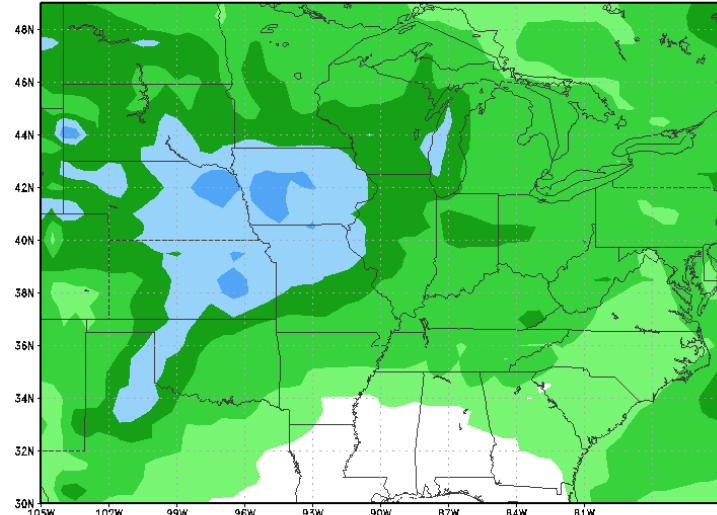
Hour: 120 - 240

Init: 00z Fri 05 May 2017

2017-05-05-0741

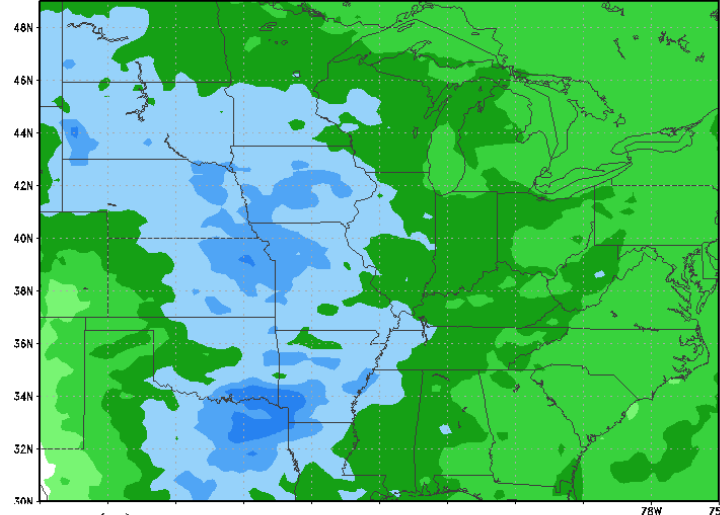
ALL 3 MODELS ensembles follow the "regular" 6-10 DAYmodels in showing MUCH wetter 6-10D when compared to last several previous model runs

120 Hour Total Precipitation (in)
Valid: 06z Mon 15 May 2017 - 06z Sat 20 May 2017



Max: 1.3 in
Min: 0.0 in
StormVistaWxModels.com

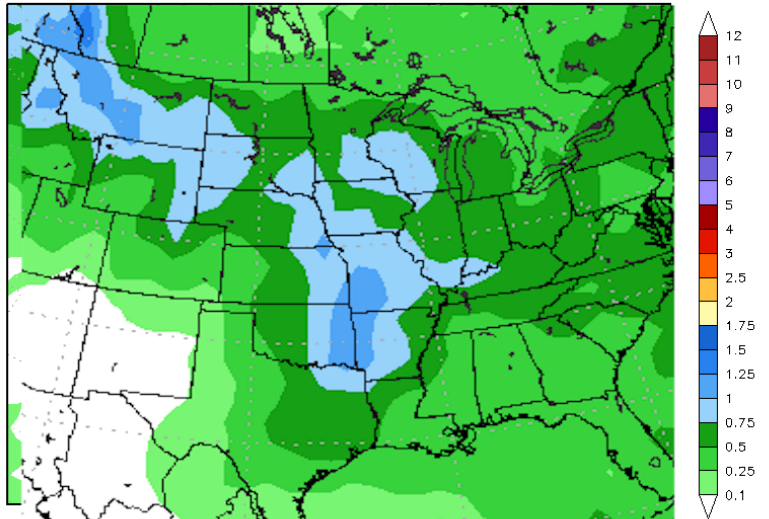
GFS-ENS-MAXRES 120 Hour Total Precipitation (in)
Hour: 246 - 366 Valid: 00z Mon 15 May 2017 - 00z Sat 20 May 2017



ECMWF-EPS-MAXRES 120 Hour Total Precipitation (in)
Hour: 240 - 360 Valid: 00z Mon 15 May 2017 - 00z Sat 20 May 2017

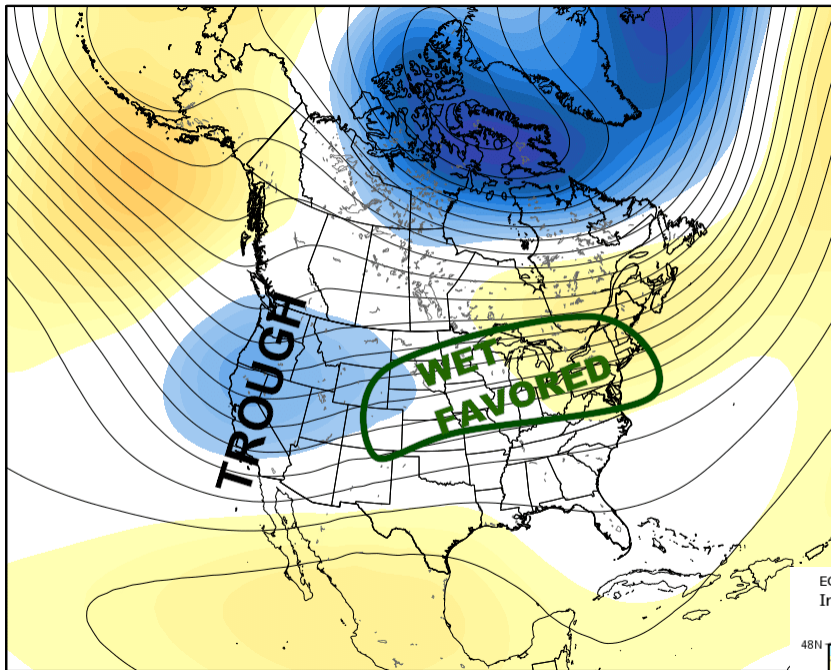
ALL 3 MODELS in the 11-15 DAY have clearly turned MUCH wetter when compared to last several previous model runs

5 Day Total Precipitation (in)
Valid: 00z Mon 15 May 2017 - 00z Sat 20 May 2017



Max: 2 in
Min: 0
5 May 2017
2017-05-01:18

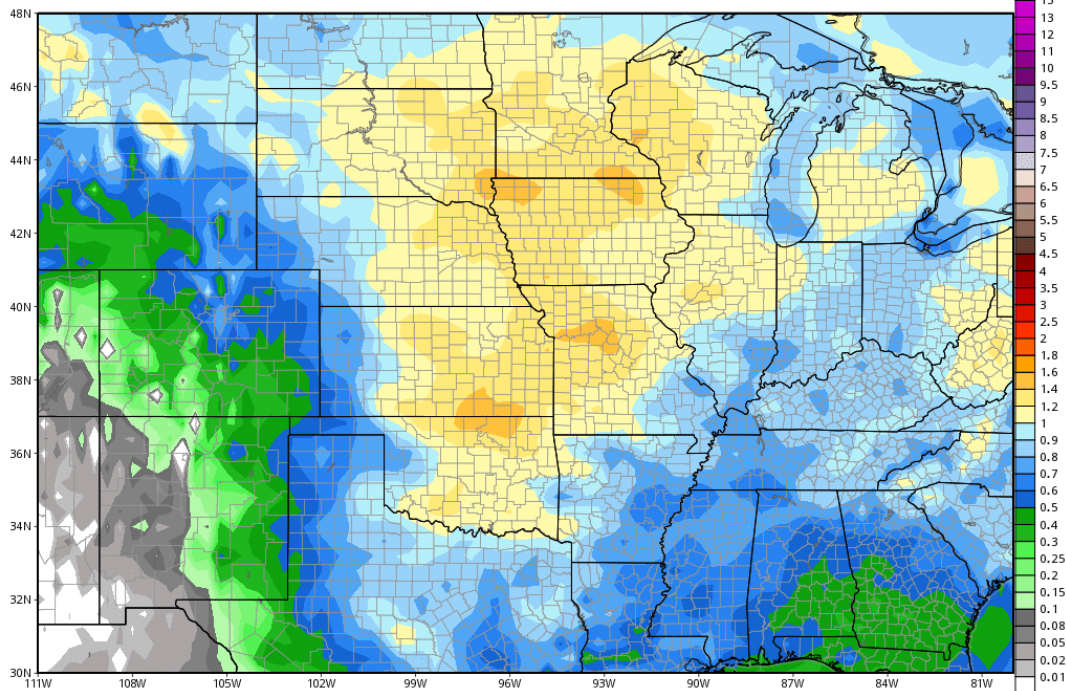
ECMWF EPS Ensemble Mean 7-day Avg 500 hPa Geopotential Height Anomaly [m] Min|Max: -70.0 | 56.3 m
Init: 00Z04MAY2017 -- [504] hr --> Valid on Thu 00Z25MAY2017 Day 14 - Day 21



Average between 00Z18MAY2017-00Z25MAY2017 | ECMWF EPS 1996-2015 Hindcast Climatology

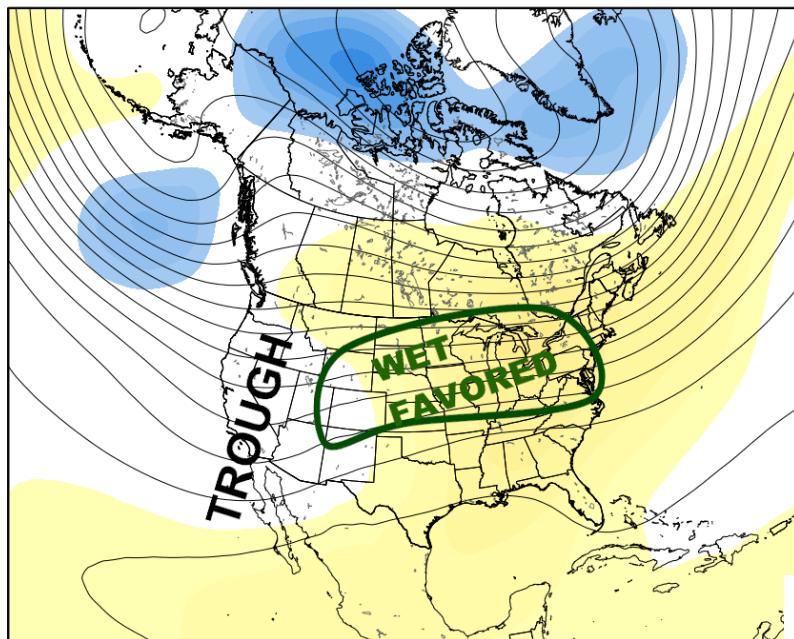
ECMWF EPS-ENS EXTENDED Ensemble Mean 7-DAY TOTAL PRECIPITATION [inches]
Init: 00Z04MAY2017 -- [504] hr --> Valid on Thu 00Z25MAY2017 Day 14 - Day 21

Maximum: 1.5 in.



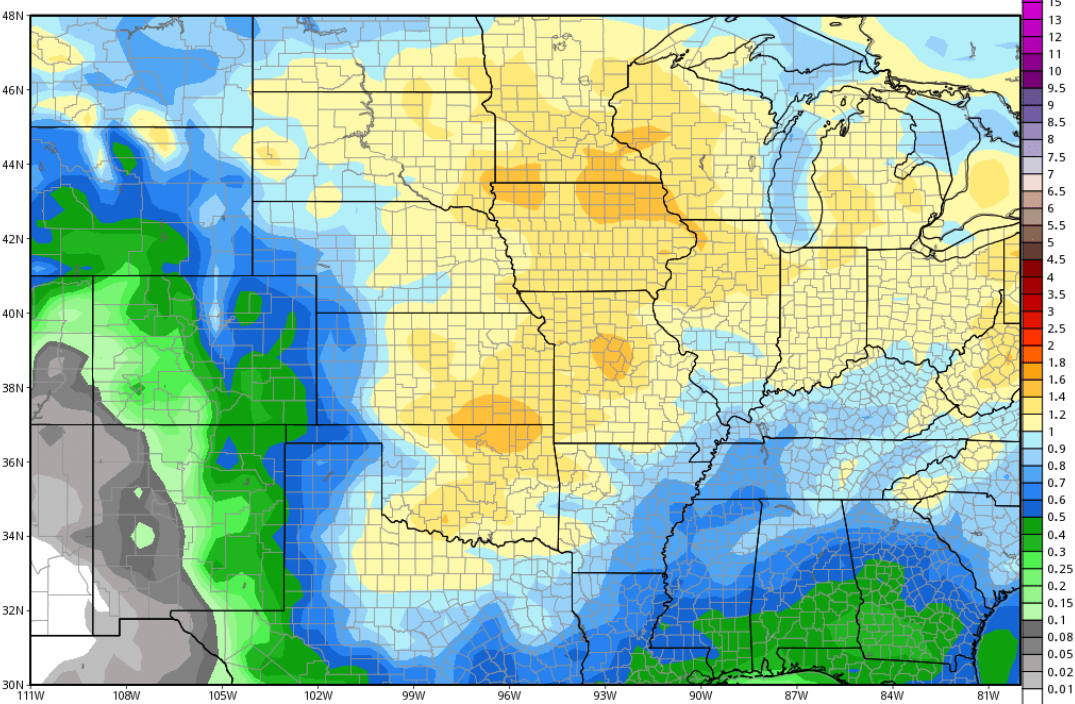
Total Precipitation between 00Z18MAY2017-00Z25MAY2017

ECMWF EPS Ensemble Mean 7-day Avg 500 hPa Geopotential Height Anomaly [m] Min|Max: -36.7 | 44.3 m
Init: 00Z04MAY2017 -- [672] hr --> Valid on Thu 00Z01JUN2017 Day 21 - Day 28



ECMWF EPS-ENS EXTENDED Ensemble Mean 7-DAY TOTAL PRECIPITATION [inches]
Init: 00Z04MAY2017 -- [552] hr --> Valid on Sat 00Z27MAY2017 Day 16 - Day 23

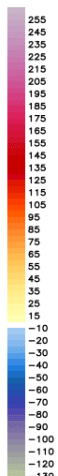
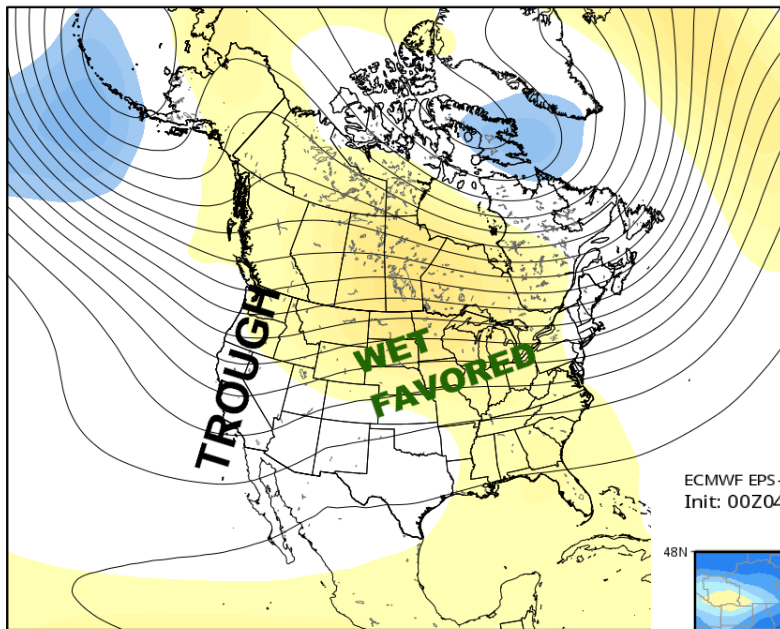
Maximum: 1.6 in.



Total Precipitation between 00Z20MAY2017-00Z27MAY2017

Average between 00Z25MAY2017-00Z01JUN2017 | ECMWF EPS 1996-2015 Hindcast Climatology

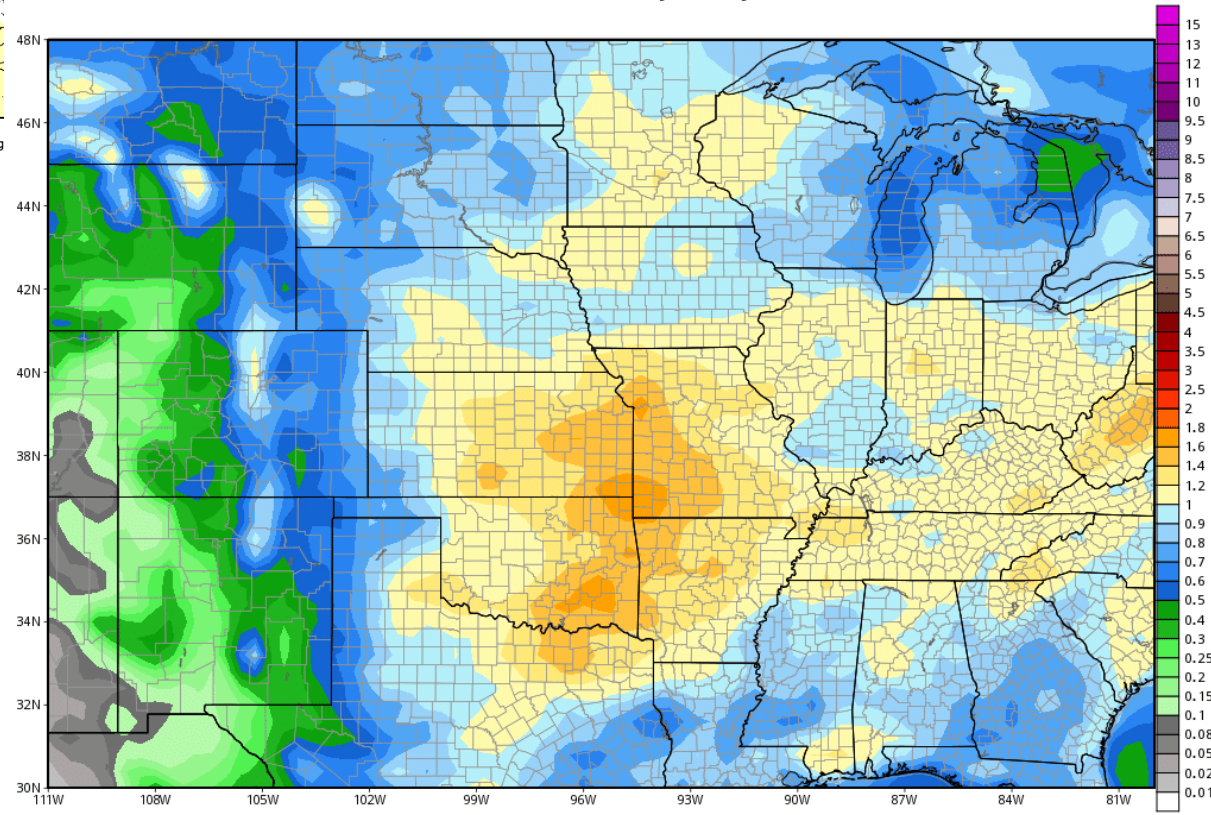
ECMWF EPS Ensemble Mean 7-day Avg 500 hPa Geopotential Height Anomaly [m] Min|Max: -22.8 | 43.1 m
Init: 00Z04MAY2017 -- [840] hr --> Valid on Thu 00Z08JUN2017 Day 28 - Day 35



ECMWF EPS-ENS EXTENDED Ensemble Mean 7-DAY TOTAL PRECIPITATION [inches]
Init: 00Z04MAY2017 -- [792] hr --> Valid on Tue 00Z06JUN2017 Day 26 - Day 33

Maximum: 1.7 in.

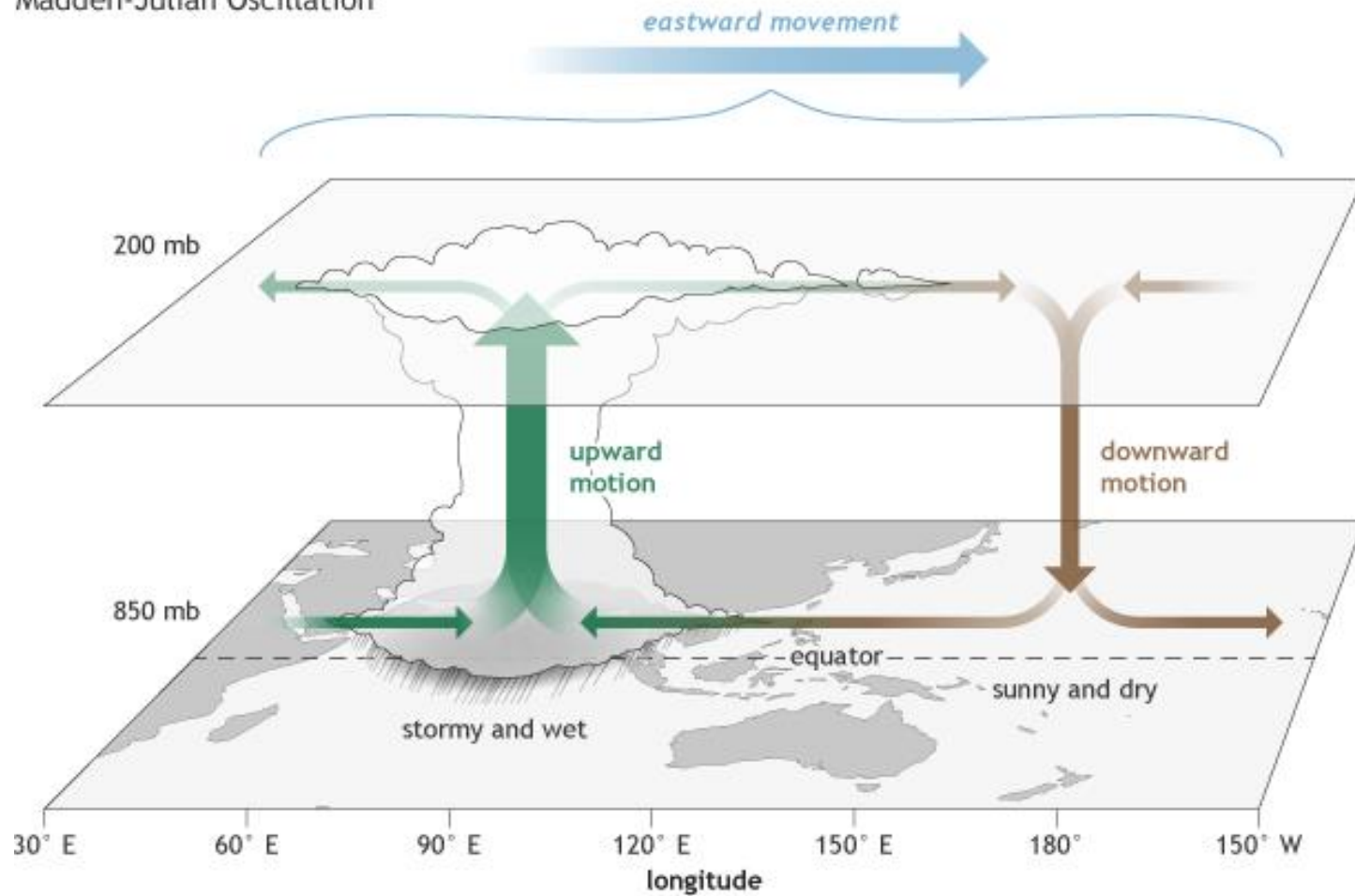
Average between 00Z01JUN2017-00Z08JUN2017 | ECMWF EPS 1996-2015 Hindcast Climatology



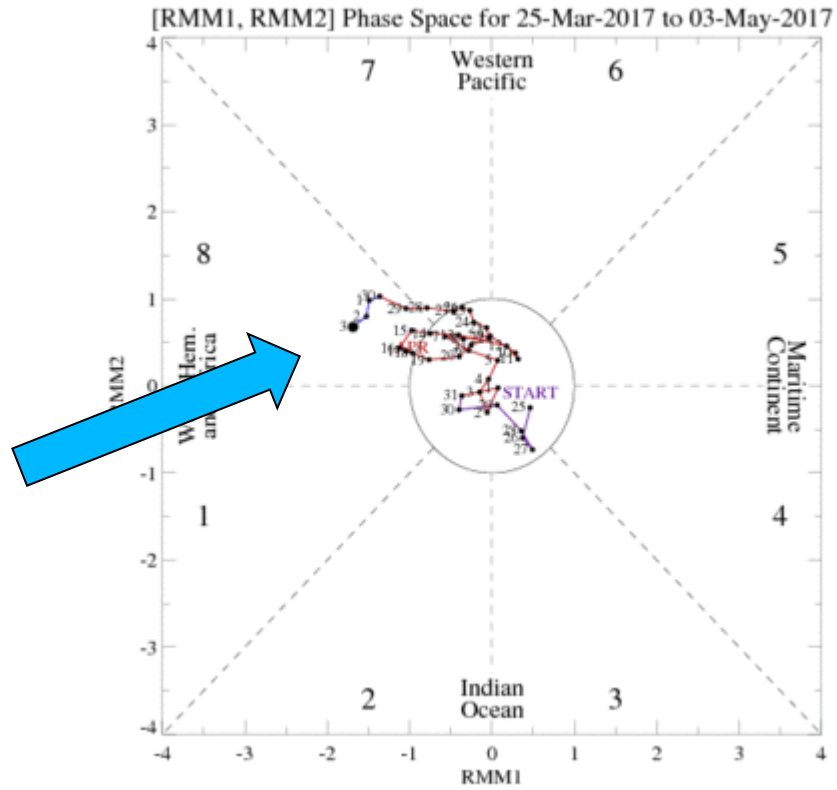
Total Precipitation between 00Z30MAY2017-00Z06JUN2017

LETS TALK MJO/ENSO

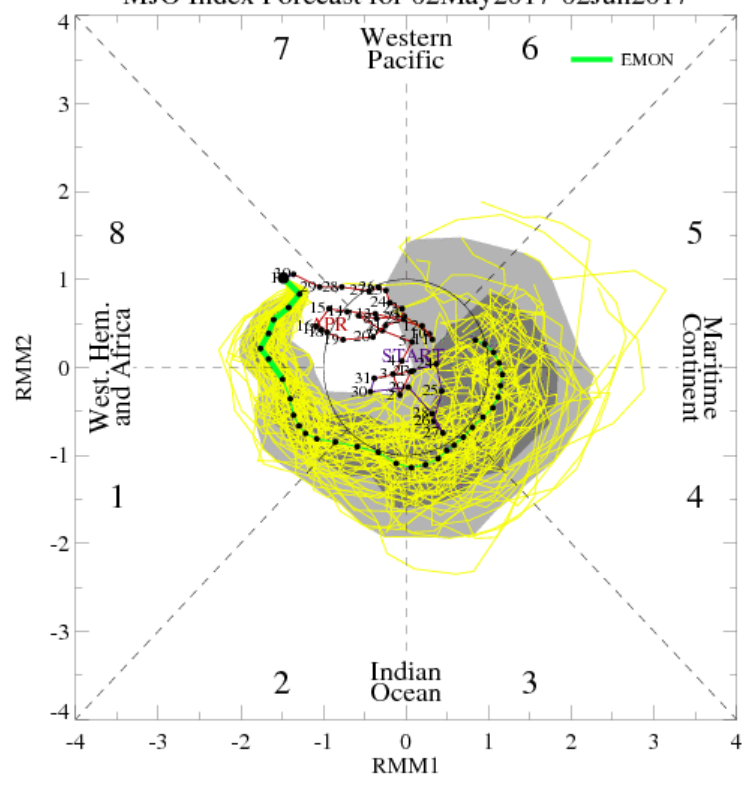
Madden-Julian Oscillation



MJO NOW IN PHASE 8

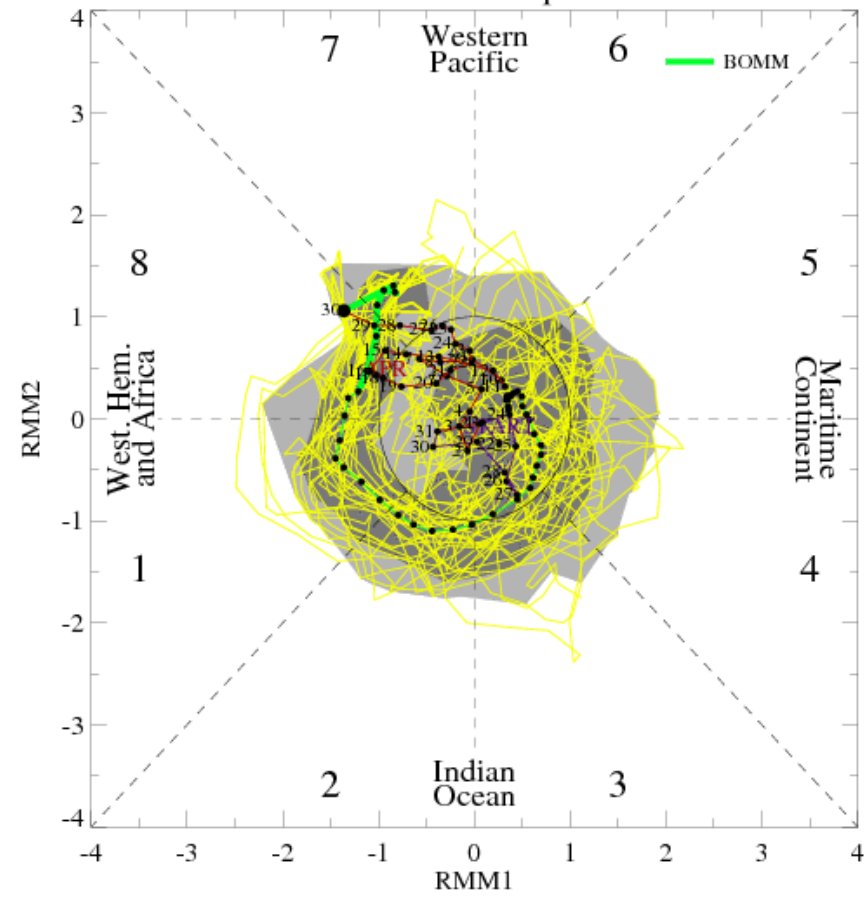


MJO Index Forecast for 02May2017-02Jun2017



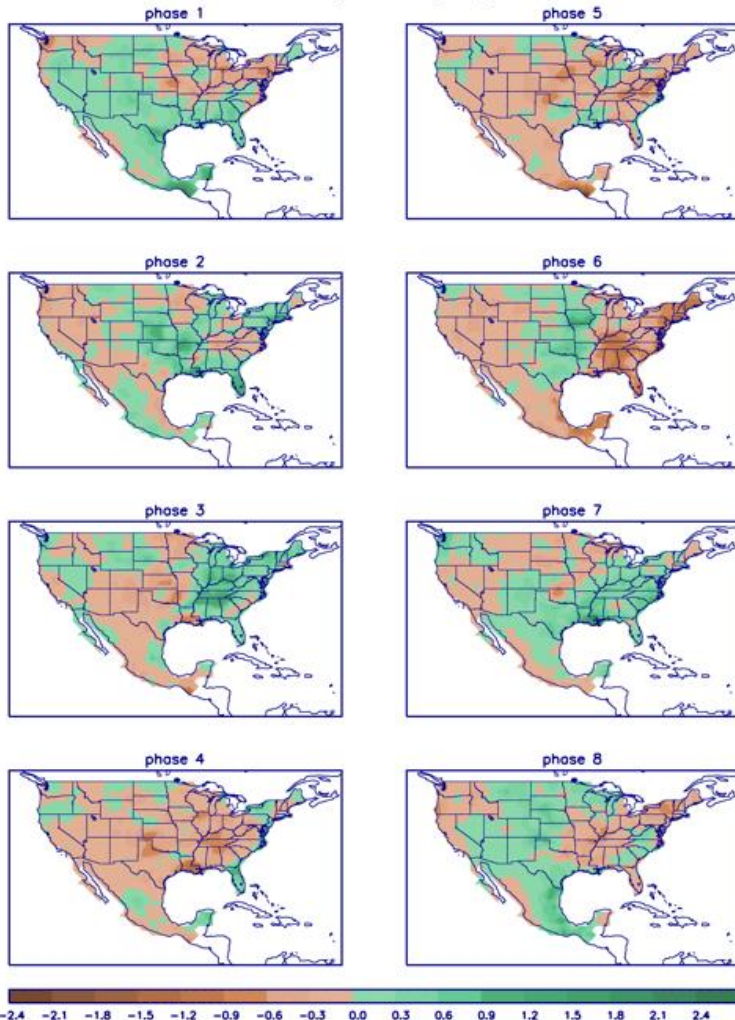
**MJO SWINGS INTO
PHASE 1...2...3.. OVER
NEXT 3 WEEKS**

MJO Index Forecast for 30Apr2017-11Jun2017

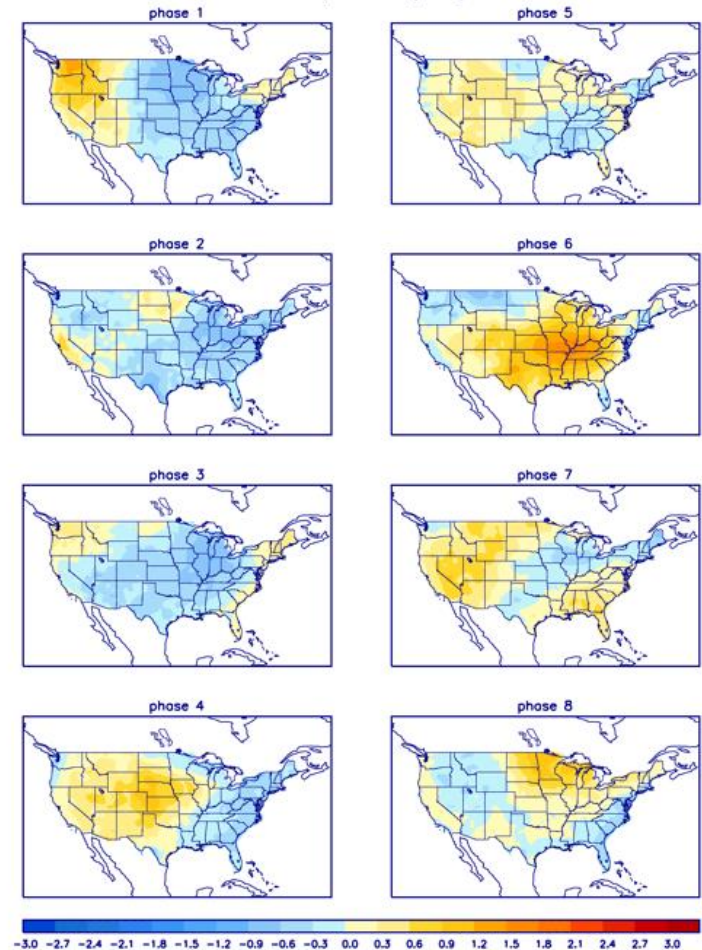


**IN MAY PHASE 1= DRY CHILLY PHASE 2
 sees rains move back in central Plains MO
 ILL still cool... PHASE 3 = wet chilly all of
 Midwest**

P composites (AMJ)



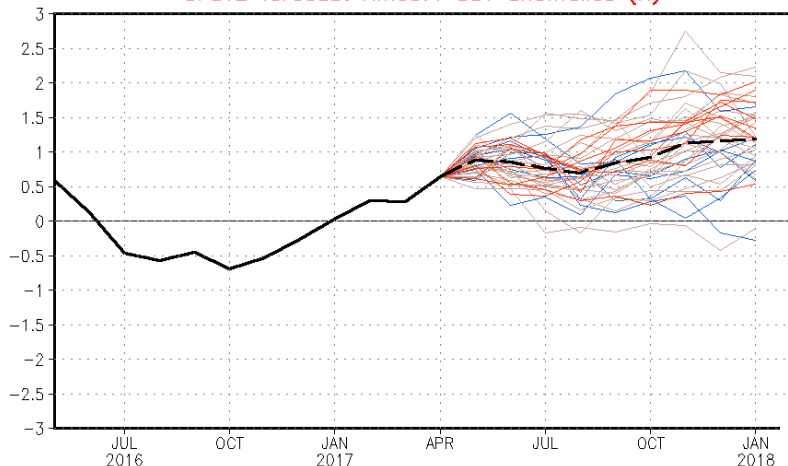
T composites (AMJ)



-3.0 -2.7 -2.4 -2.1 -1.8 -1.5 -1.2 -0.9 -0.6 -0.3 0.0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0



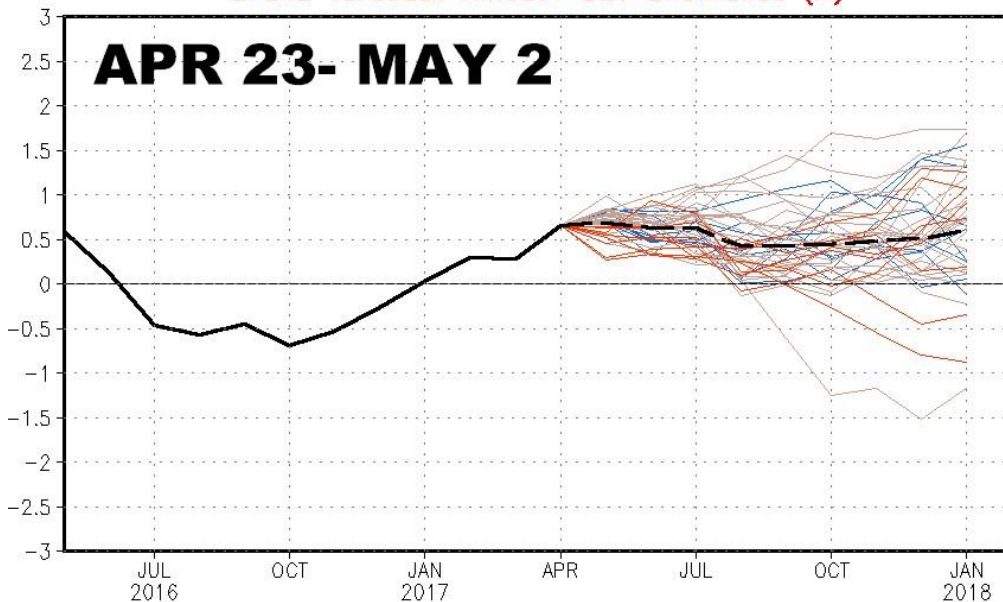
CFSv2 forecast Nino3.4 SST anomalies (K)



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

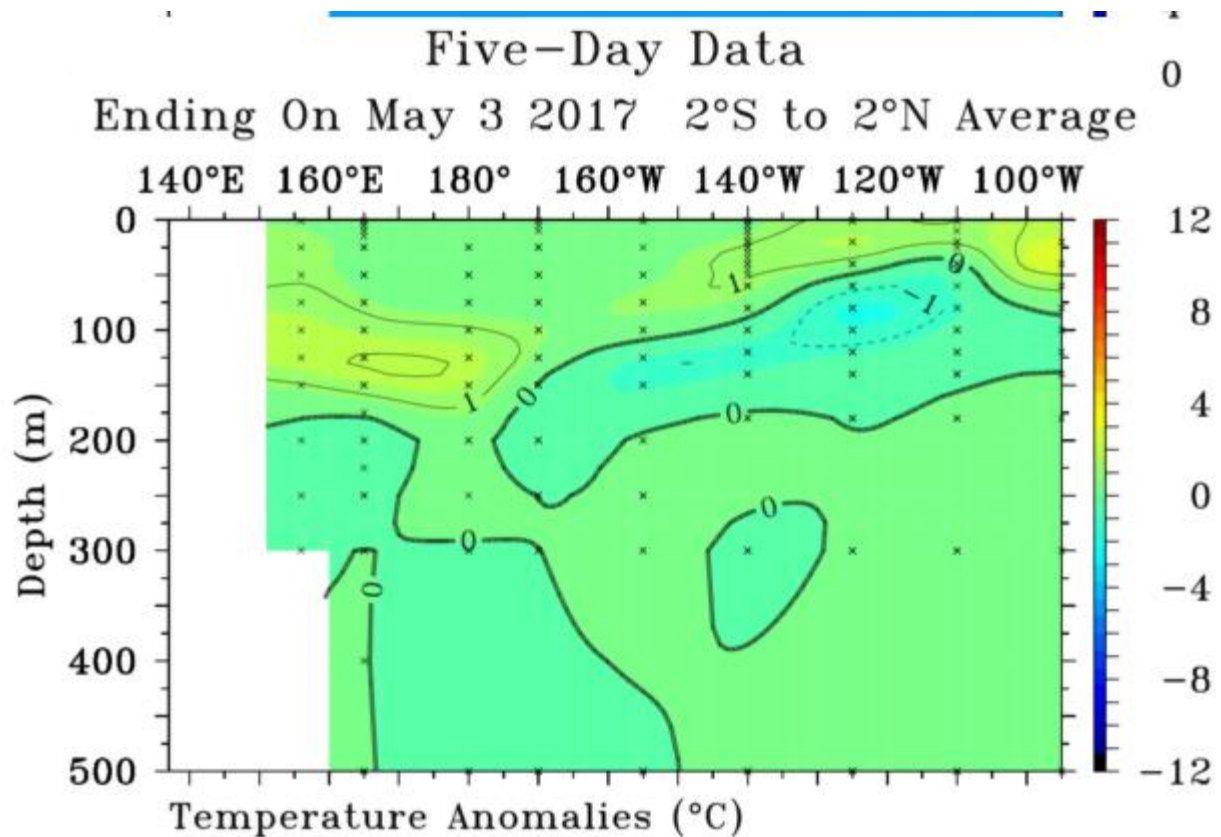
**LATEST CFS
MODELS SHOW
SIGNIFICANT
WEAKENING IN
MODEL = NOW FAVOR
NOW EL NINO OF
ANY KIND**

CFSv2 forecast Nino3.4 SST anomalies (K)



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

WARM SUB SURFACE TEMP ANOMALIES VERY WEAK and COLD WATER POOL IS INCREASING



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

