

TUESDAY US GRAIN WEATHER 4/20/17**OVERVIEW**

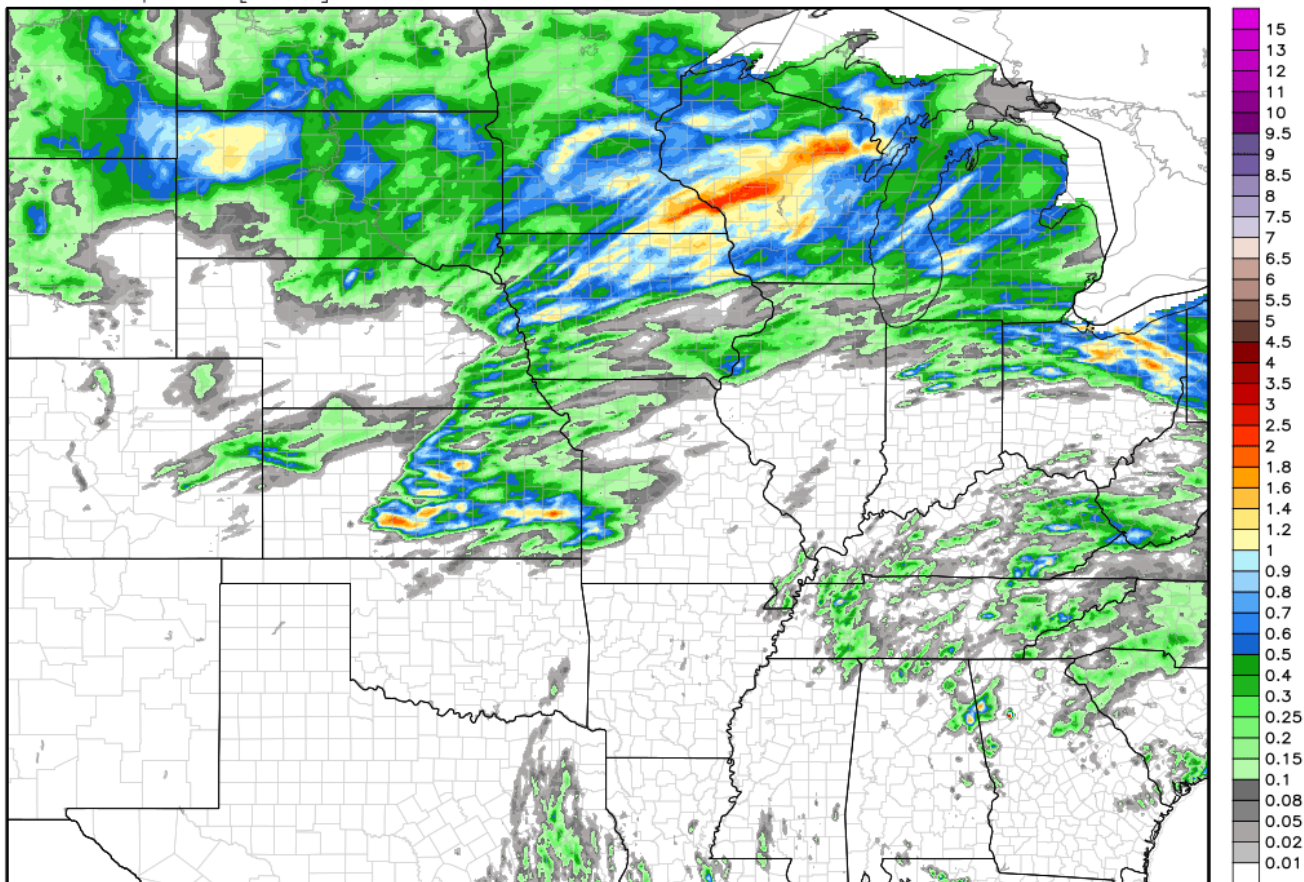
Now that the northern rains have come to an end the next 5 e days will feature dry conditions for anybody north of interstate 70 (which is the major highway that bisects the Midwest and the central Plains). This kind of rain will shut down planting operations for the next several days but to the north of I-70... once things dry out things look pretty good. The forecast models continue to show significant rains in the 6-10 DAY some of the operational models are of swinging wildly going from one extreme solution to another one. This is a really good textbook example of why forecasters that know what they are doing should avoid the operational or regular models and stick with the ensembles past day 3 or 4. Research is clearly shows that in the 6-10D and in the 11-15D the ensembles simply outperform the operational models on a regular basis and this is especially true when it comes to precipitation forecasts. As we were saying back last weekend ...the last several days of April look to be quite wet across large portions of the Plains ...the Midwest ...and the Delta regions. This is now showing up in the 6-10 DAY and I see no reason to go against it.

We also look at the first half of MAY 2017 in some detail at the end of this report. The new 30 day forecast will be out a little later this afternoon which will talk about May 2017 in more detail

RAINFALL OVER THE LAST 24 HRS - 0700 CDT FRI 17 APRIL - 0700 CDT 18 APRIL

NWS Precipitation Analysis 4-km HRAP Grid -- 1-day Total Accumulation
Total Precipitation [inches] between 12Z19APR2017 -- 12Z20APR2017

Domain Max: 5.2 in.



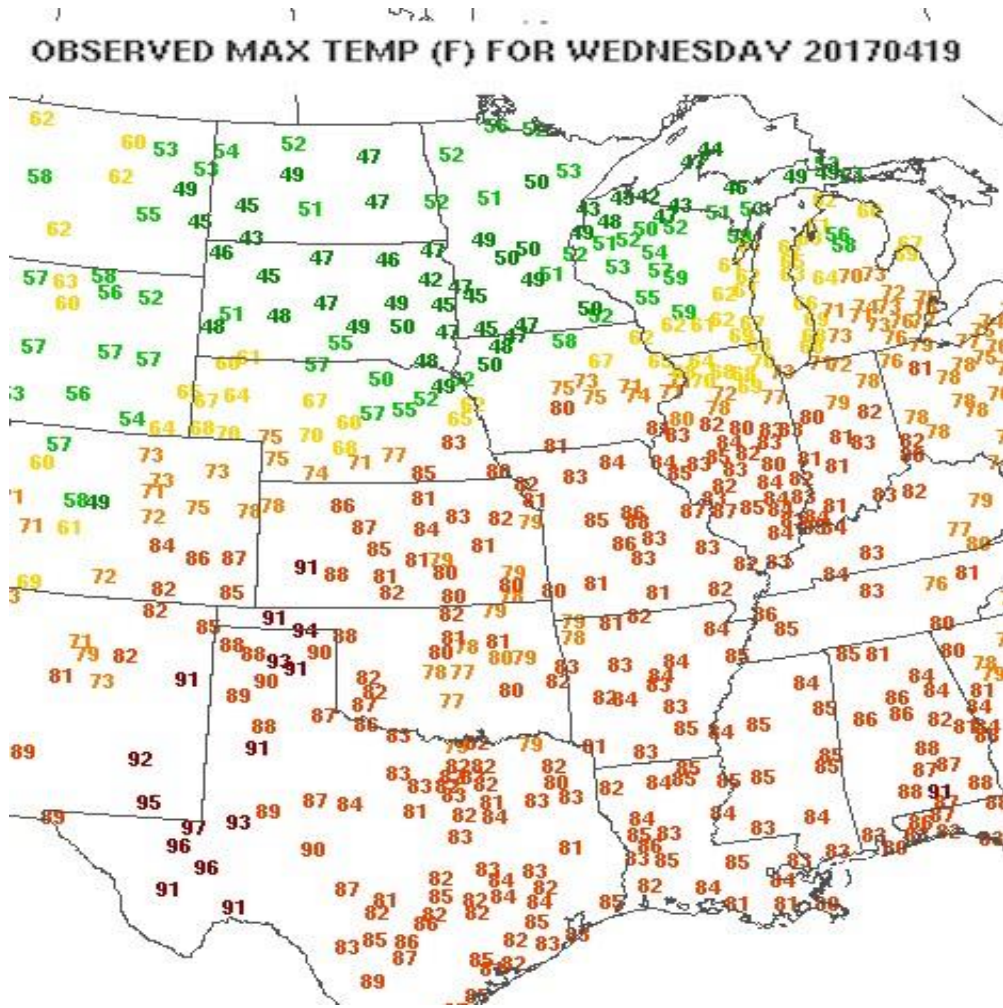
There were 2 main areas of rain in the last 24 hours .. the northern area dropped 0.50 to 1.75"/12-45mm over 60% of eastern and central SD and ND .. the northeast third of NEB and central and northern MN.

The SECOND are of rain fell over 50% of eastern third of TX with amount of 1-3"/ 25-75mm and 40% coverage og 0.25-1.0"/ 6-25mm over LA A RK MS TN KY

4 km HRAP grid | End of hydrological day at 1200 UTC | <http://water.weather.gov/precip>

MAX TEMPS MONDAY APRIL 19

40s and 50s over eastern MT ND SD MN northern WI far northeast NEB and northern IA ... 60s over most of NEB western IA southern WI far northern ILL ... 70s over OH central eastern IA and eastern COL.. 80s over MOST of KS OK TX LA ARK MO central and southern ILL central and southern IND KY TN MS AL GA.. Low 90s in OK and TX Panhandle areas



NEXT 5 DAYS

Now that the northern rains are ending the next 5 days will feature either dry conditions or heavy rains. The Dividing line is INTERSTATE 70 which as you can see runs west to east and splits the Midwest in half as well as the Plains. SOUTH of I-70 there will be heavy rains of 1-4"/25-100mm covering the southeast third of KS central and northern OK into southern half of MO all of KY most of TN southern third of ILL southern third of IND into southern half of WVA and all of NC and VA

BLACK LINE - INTERSTATE 70

120 Hour Total Precipitation (in)

Valid: 06z Thu 20 Apr 2017 - 06z Tue 25 Apr 2017

GFS-MAXRES

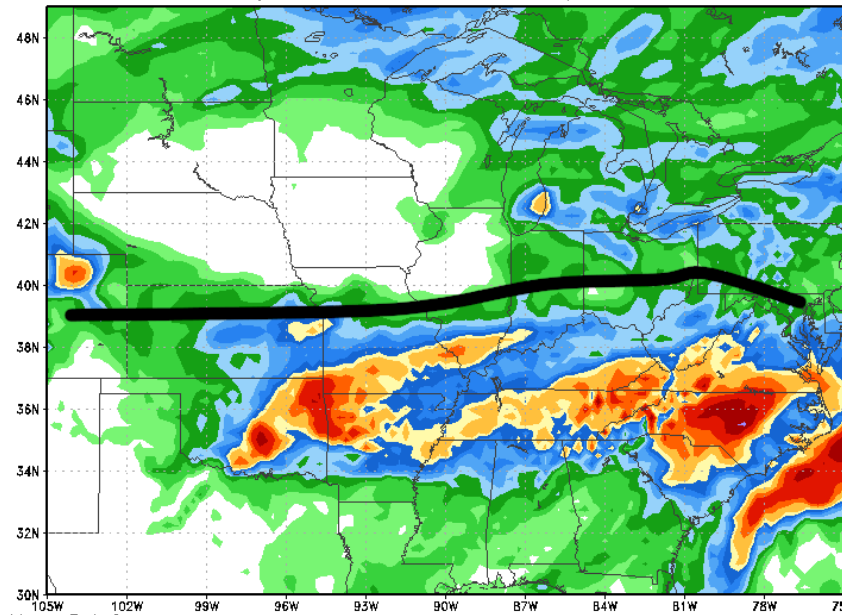
Hour: 0 - 120

120 Hour Total Precipitation (in)

Valid: 00z Thu 20 Apr 2017 - 00z Tue 25 Apr 2017

ECMWF-MAXRES

Hour: 0 - 120



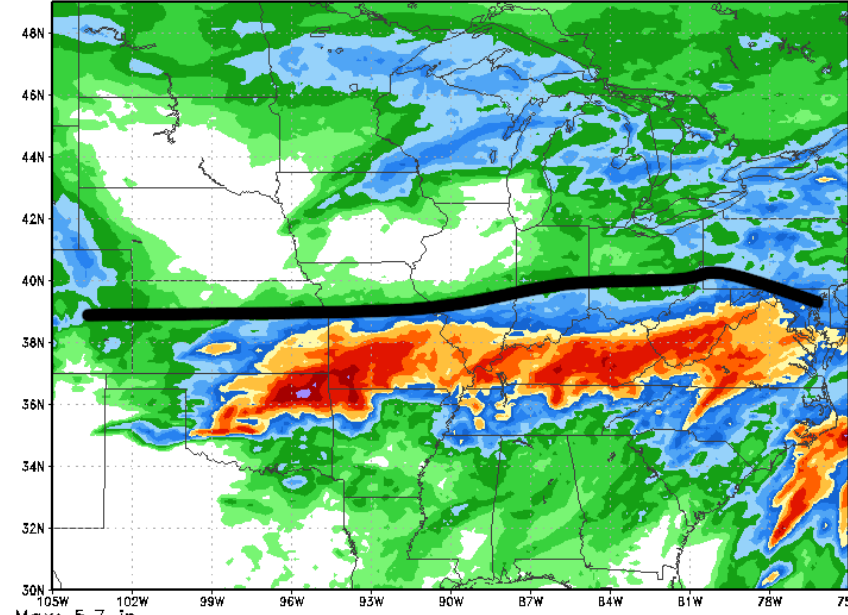
Max: 5.1 in

Min: 0.0 in

StormVistaWxModels.com

Init: 06z Thu 20 Apr 2017

2017-04-20-10:11



Max: 5.7 in

Min: 0.0 in

StormVistaWxModels.com

Init: 00z Thu 20 Apr 2017

2017-04-20-08:20

6-10 DAY

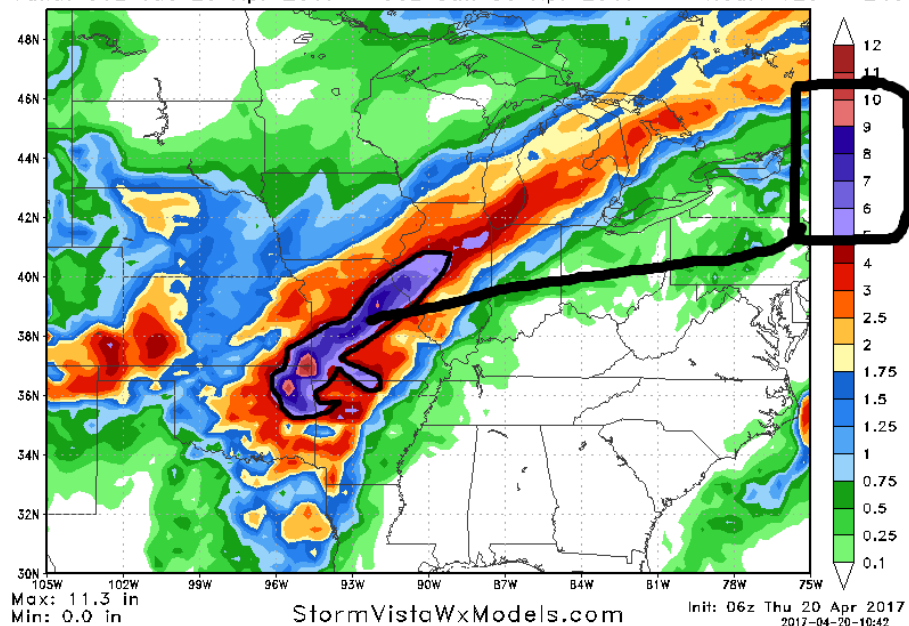
The GFS Models used in the 6-10 day and 11-15 day maps below are from the 6z run. Research shows that the 6z and 18z operational or "regular" GFS models are NOT as accurate as the 0z and 12z runs. Moreover the 6z and 18z GFS Models seem to favor wild or extreme solutions. WxRisk believes that to be the case as well with the 6z GFS on this Thursday morning.

again we think the 6z GFS model solution presented below is crap.

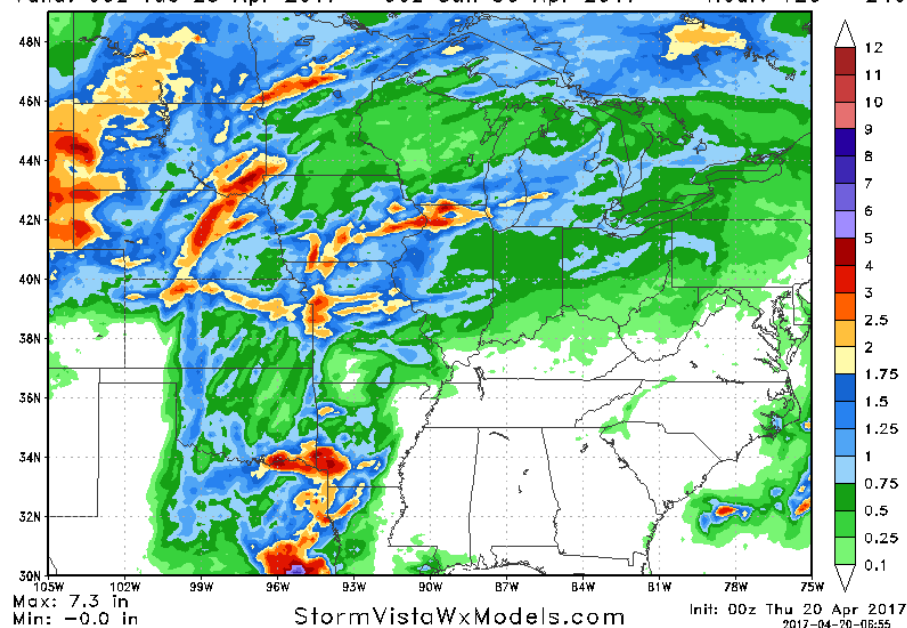
This is WHY Wxrisk dont like using 6z /18z GFS models. Often seem to favor EXTREME solutions

But the 0z THUR EURO seem to be too Dry

120 Hour Total Precipitation (in)
Valid: 06z Tue 25 Apr 2017 - 06z Sun 30 Apr 2017
Hour: 120 - 240



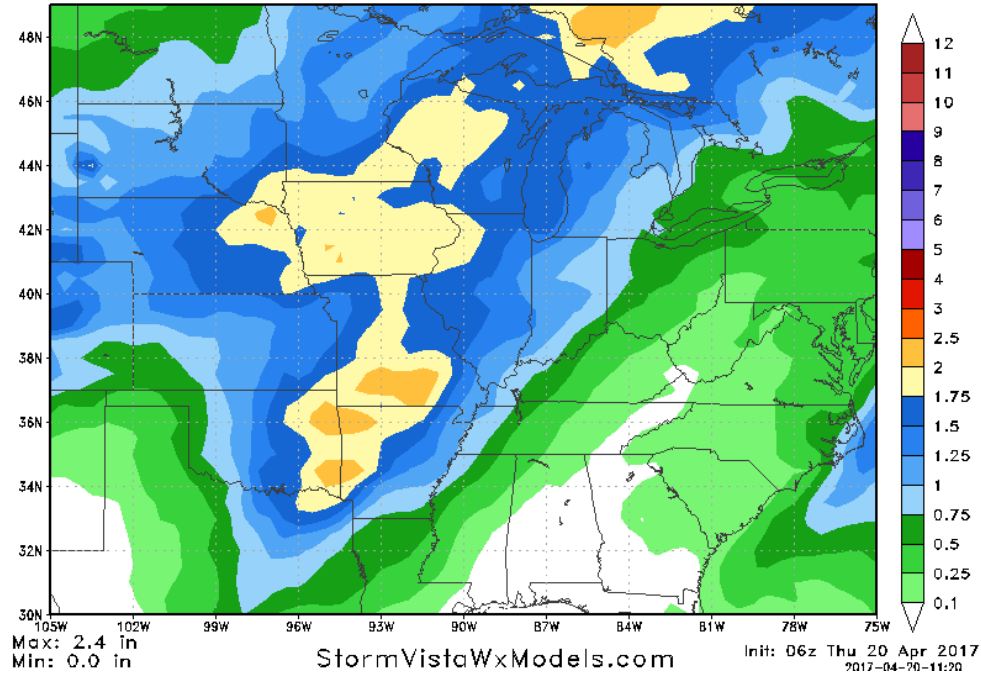
120 Hour Total Precipitation (in)
Valid: 00z Tue 25 Apr 2017 - 00z Sun 30 Apr 2017
Hour: 120 - 240



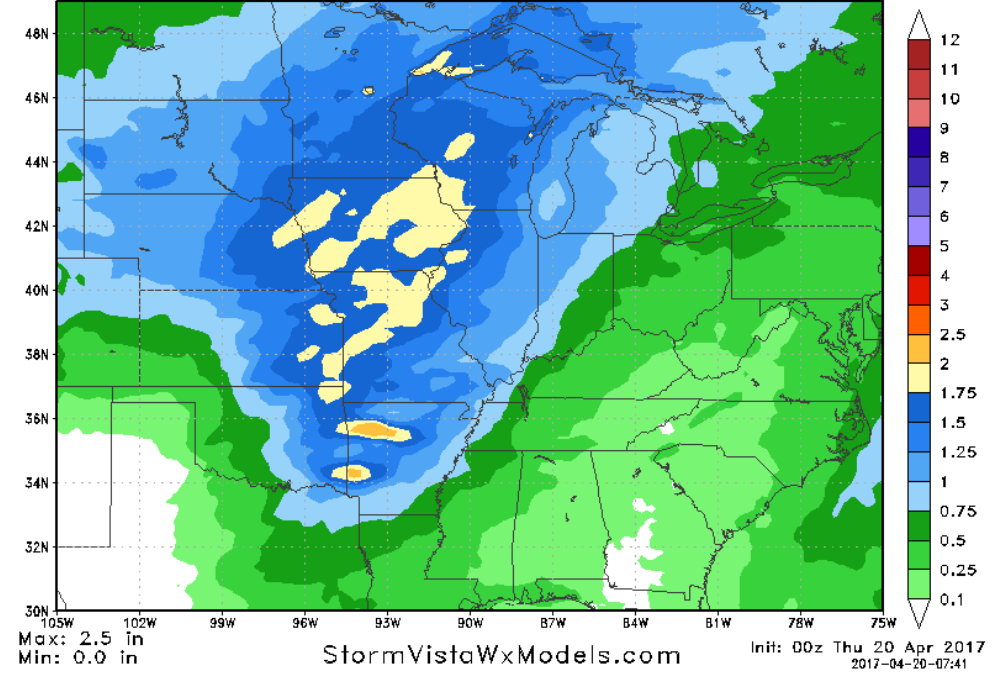
6-10 DAY ENSEMBLE

THIS is WHY forecasters in 6-10D and 11-15 DAY should use ensembles over the operational or "regular" models. EXCELLENT ensemble model agreement here

120 Hour Total Precipitation (in) GFS-ENS-MAXRES
Valid: 06z Tue 25 Apr 2017 - 06z Sun 30 Apr 2017 Hour: 120 - 240



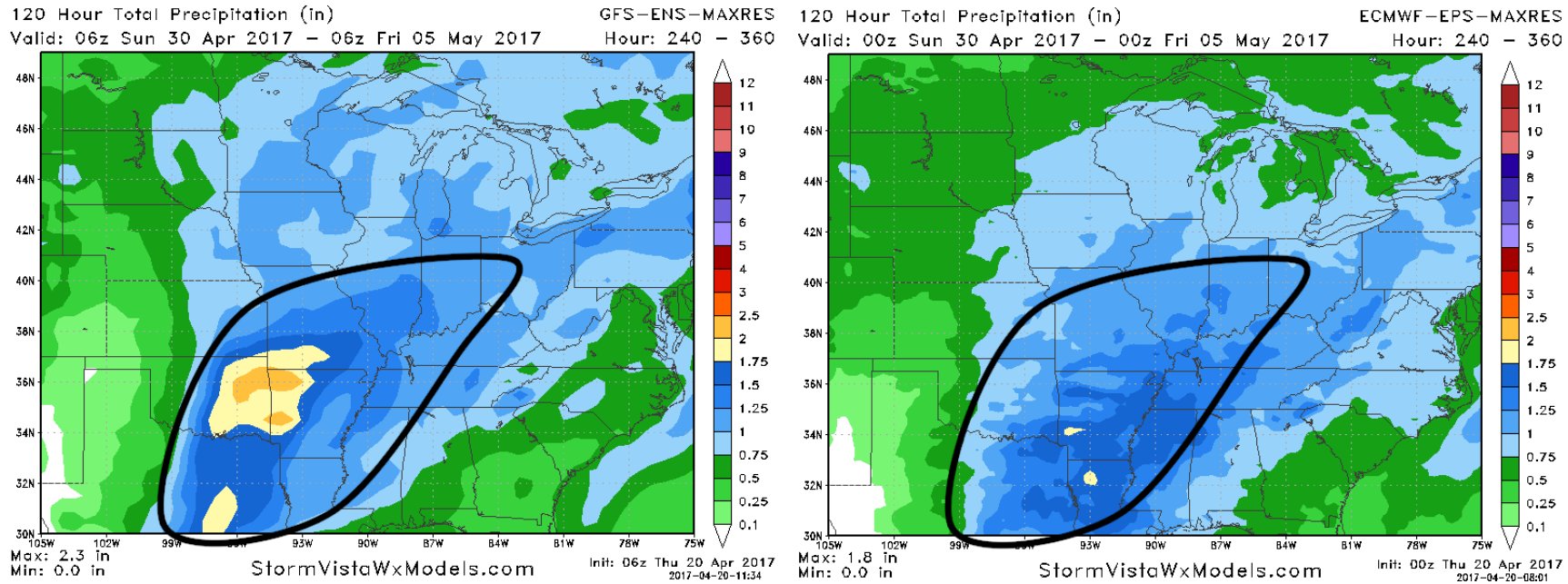
120 Hour Total Precipitation (in) ECMWF-EPS-MAXRES
Valid: 00z Tue 25 Apr 2017 - 00z Sun 30 Apr 2017 Hour: 120 - 240



11-15 DAY

Good agreement between GFS and EURO ensembles as they show widespread 1-2" /25-50mm rains with 80% coverage over the Delta into 70% of WCB ... 80% ECB and into KY TN MS AL

EXCELLENT MODEL AGREEMENT HERE BEST RAINS OVER DELTA INTO LOWER MIDWEST



BRIEF LOOK AT FIRST HALF OF MAY 2017

The new weekly CFS models continue to show that the first half of MAY 2017 will be a rather untypical for MAY. The back into the 11 to 15 day as well as the first few days of the 16 to 20 day clearly show that most of the plains AND HE the Midwest will remain wet and quite

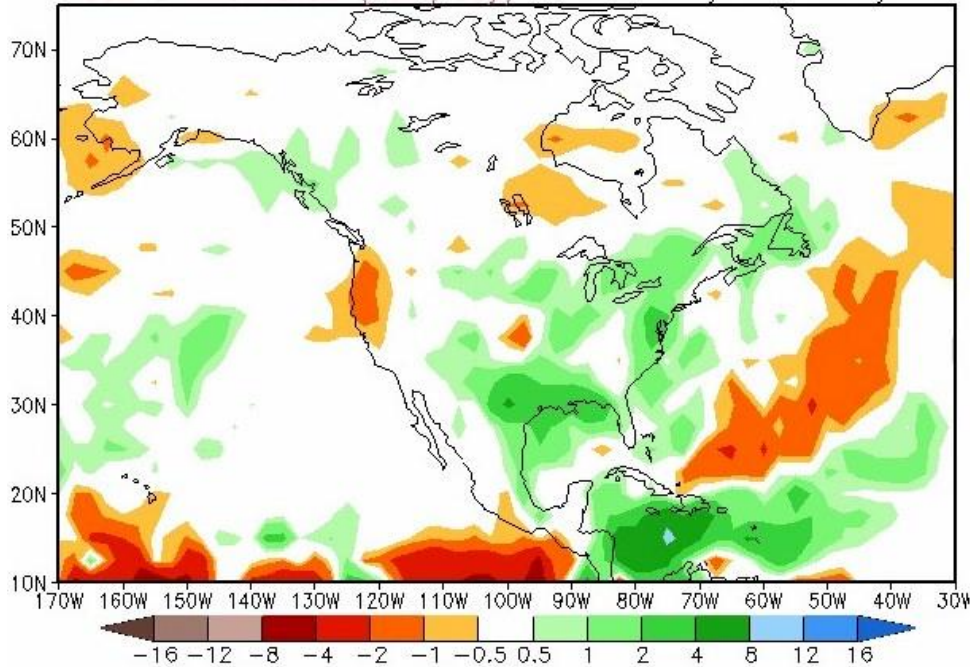
chilly relative to normal. There is likely to be an deep trough in the Jet stream moving into the entire Plains and Midwest regions which will initially bring the rain. Then as the trough shifts slowly eastward ..the rains will shift more towards s the East Coast around MAY 7-10 . This will allow the pattern to dry out over the Plains and Midwest to some degree but temperatures are likely to be much below normal between the Rockies and the Appalachian Mts including much of the Great Lakes and south central Canada.

The below normal temperature pattern is likely to continue through May 15 and possibly past May 20. Again this will allow for a somewhat drier pattern over most of the Midwest and the central and upper Plains but temperatures will be significantly below normal

CFSv2 Weeks 3 & 4 Precipitation

16 Member Ensemble Mean Forecast from 19Apr2017

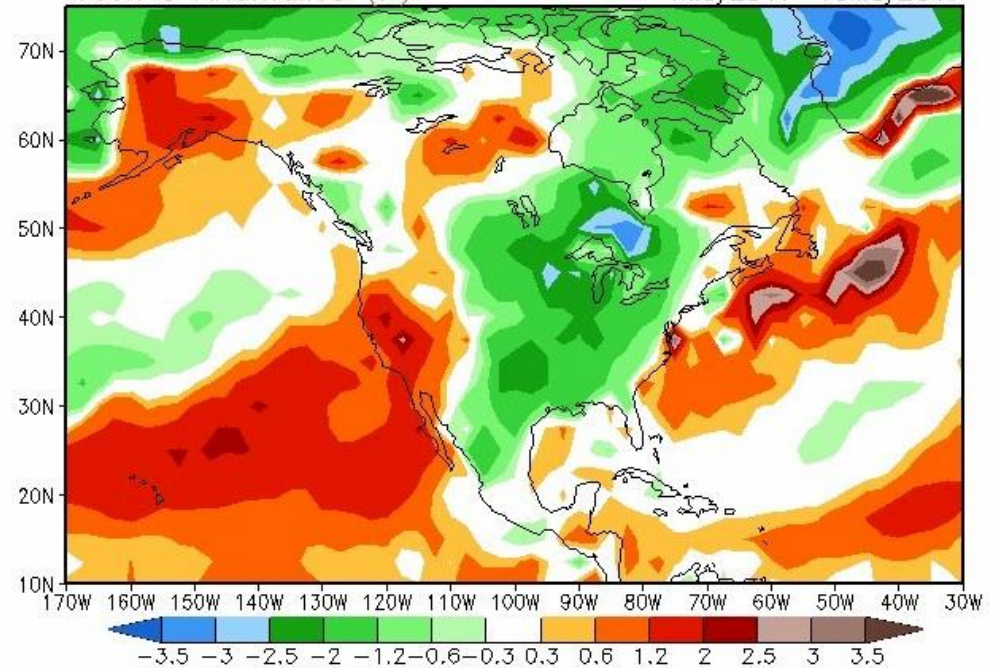
Week 3 Anomalies (mm/day) 4May2017–10May2017

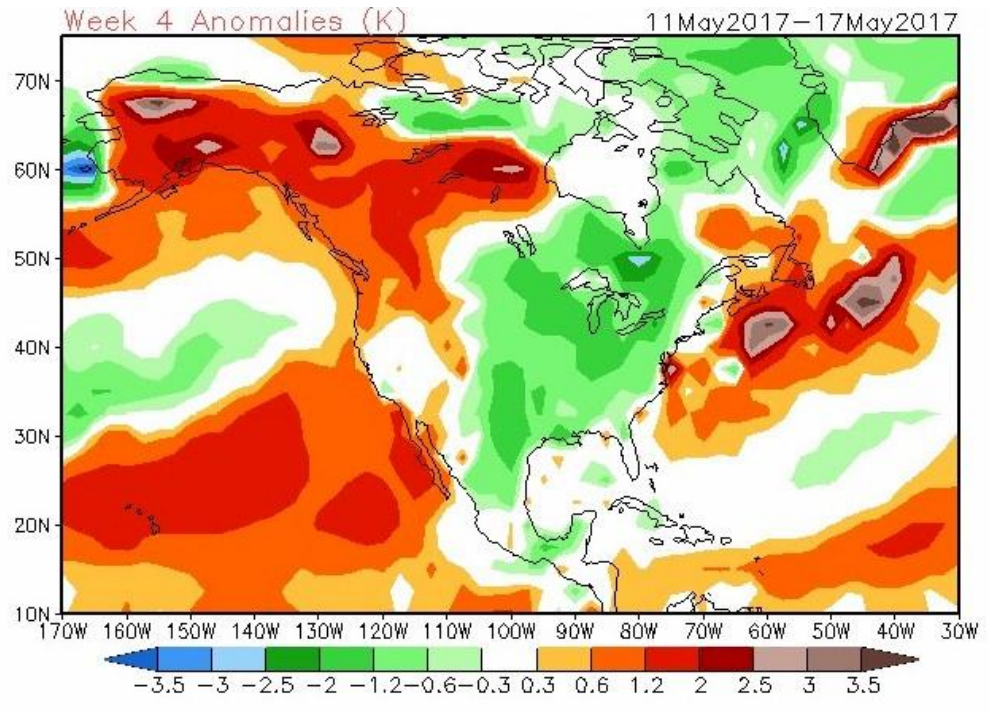
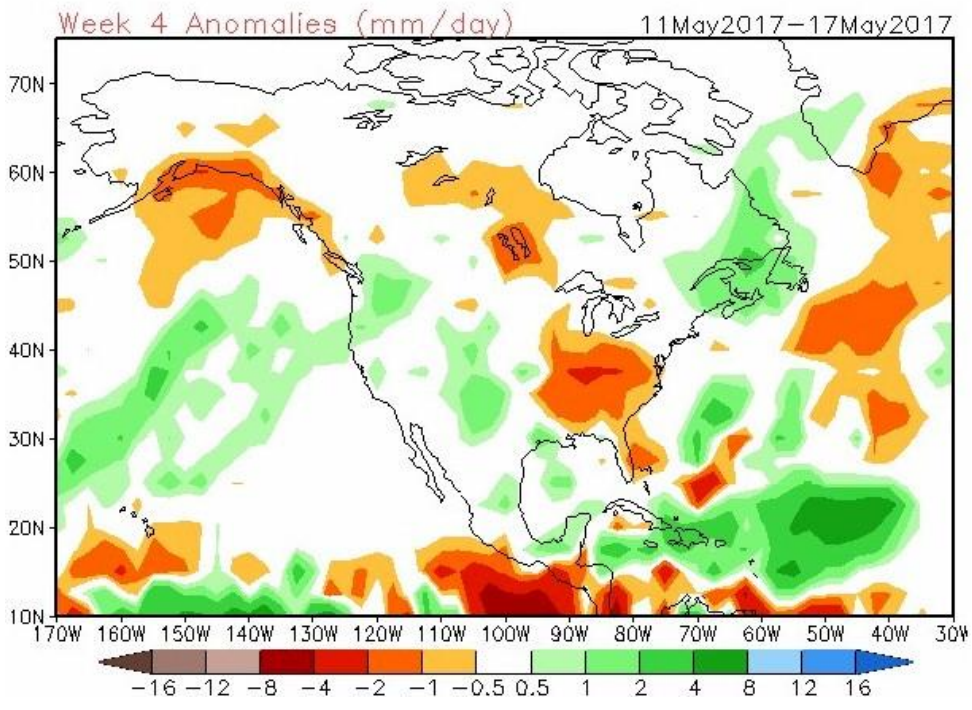


CFSv2 Extended Range Temperature

16 Member Ensemble Mean Forecast from 19Apr2017

Week 3 Anomalies (K) 4May2017–10May2017





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