

MONDAY AM FULL US GRAIN WEATHER

7/24/17 OVERVIEW

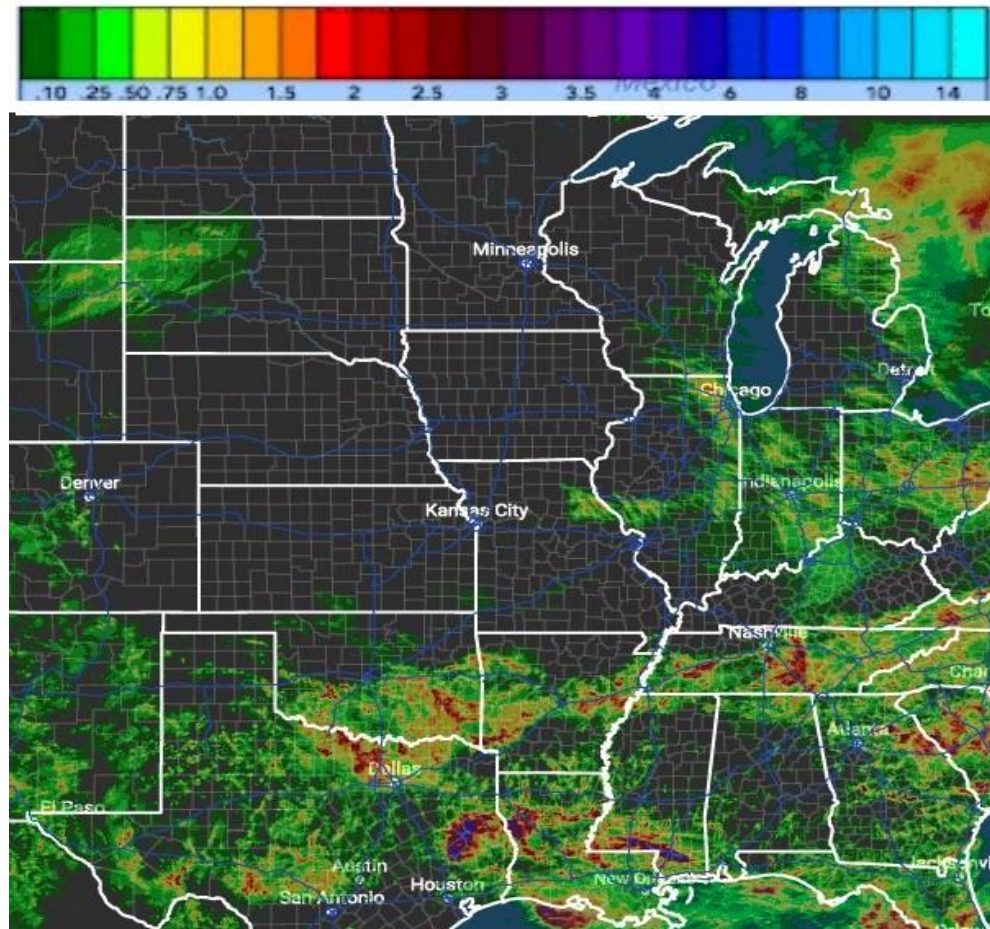
There is not a lot to change in the forecasts since Sunday afternoon. The rain event which comes through on Wednesday night Thursday through the Midwest appears to be weaker on most of the models when compared to the data on Sunday afternoon. More importantly this rain event is the ONLY rain event which moves through the upper Plains ...the WCB ... and the ECB over the next 10 days. The early morning G S model had some rain over the ECB in the 6-10 day but the GFS ensemble does not support that and the European is dry over all the Midwest and most of the Plains both in its operational run and its ensemble in the 6-10day as well.

There is no heat threat for any portion of the eastern plains or the Midwest right through the middle of August based upon a latest model data. There is some uncertainty as to what is going to happen in week 3 The Sunday afternoon CFS model showed below normal temperatures in all areas with above normal rainfall over the central and Upper plains and WCB. But the ROLLOVER model which is just come out on this Monday morning ...shows a very wet pattern for the ECB which has been a seasonal trend

RAINFALL OVER THE LAST 24 HRS - 0700 CDT 23 JULY - 0700 CDT 24 JULY

MOST of the rain last 24 hours stayed SOUTH.... 0.25-2.0"/6-50mm were common over 50% of central & north central TX into southern OK into western & central ARK... across 70% of TN and SC... 50% coverage eastern GA and North Carolina. There was a 2nd area of 0.50-4.0"/12-50mm over far east central TX into west central LA into sw MS... with 50% coverage.

There was some light rain of 0.25-1.5"/6-38mm over 50% of central / southeast IND...60% of OH. There were a few very small areas of 2"/50mm rains over central/ eastern OH



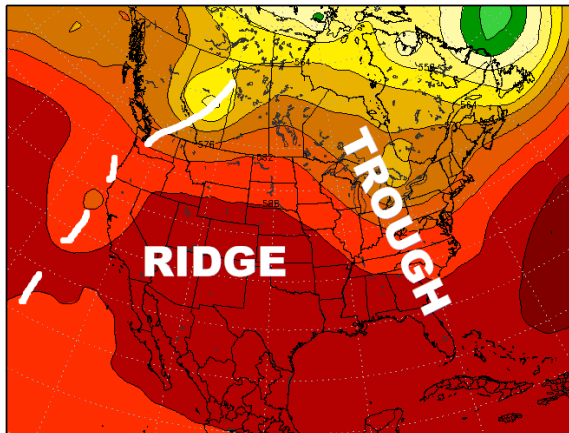
FAST LOADING RADAR

The national radar 8am CDT shows almost no significant activity over any portion of the Plains .. WCB and ECB. There are some storms over far eastern TX into west central... and over southwest MS. There is a weak cluster of showers over north central SD..

SUNDAY MAX TEMPS -- 70s over MN...Low 80s over eastern ND eastern SD much of IA WI MI and OH... 85-90 over IND northern ILL western IA western ND central SD eastern NEB... Low 90s over eastern MT western SD eastern WY/ COL eastern KS northern MO central/ southern ILL TN AL MS LA 95-100 over ARK southern MO western NEB western KS all of OK TX

NEXT 5 DAYS

500 mb Height
Valid: 12z Mon 24 Jul 2017

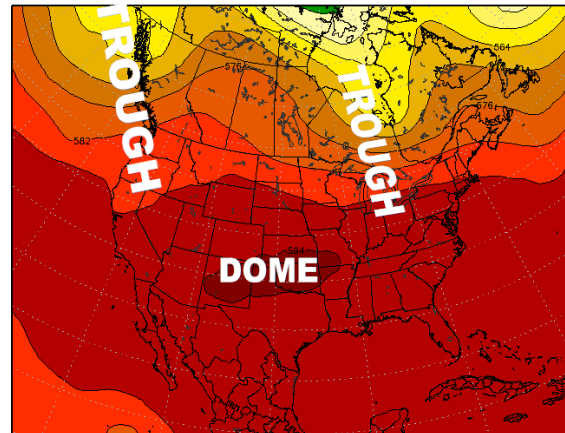


g9DOS: 00LA/10ES

StormVistaWxModels.com

Init: 00z Mon 24 Jul 2017
2017-07-24-01:48

500 mb Height
Valid: 00z Thu 27 Jul 2017



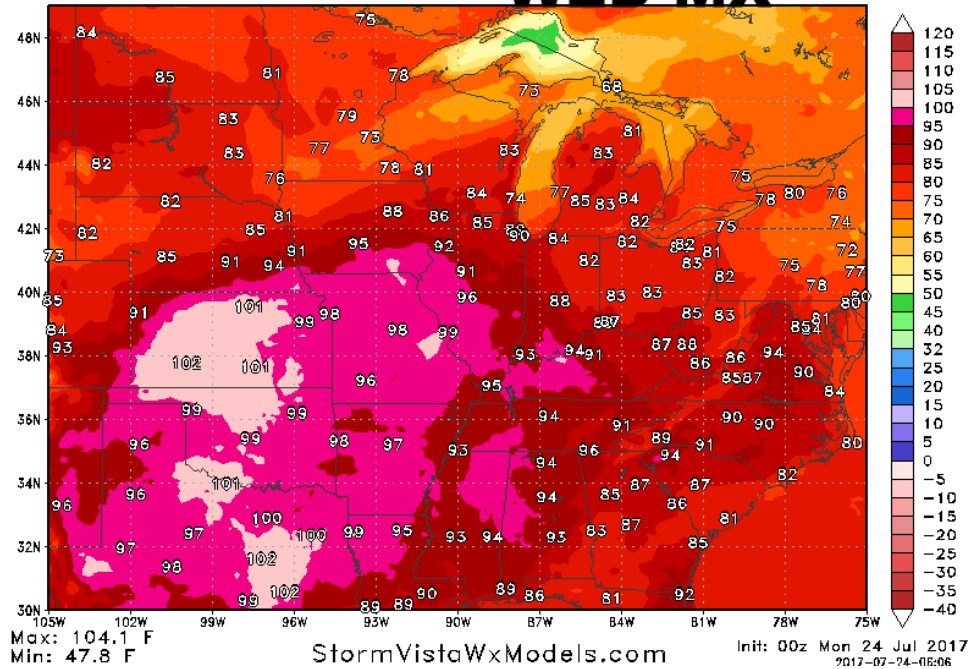
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StormVistaWxModels.com

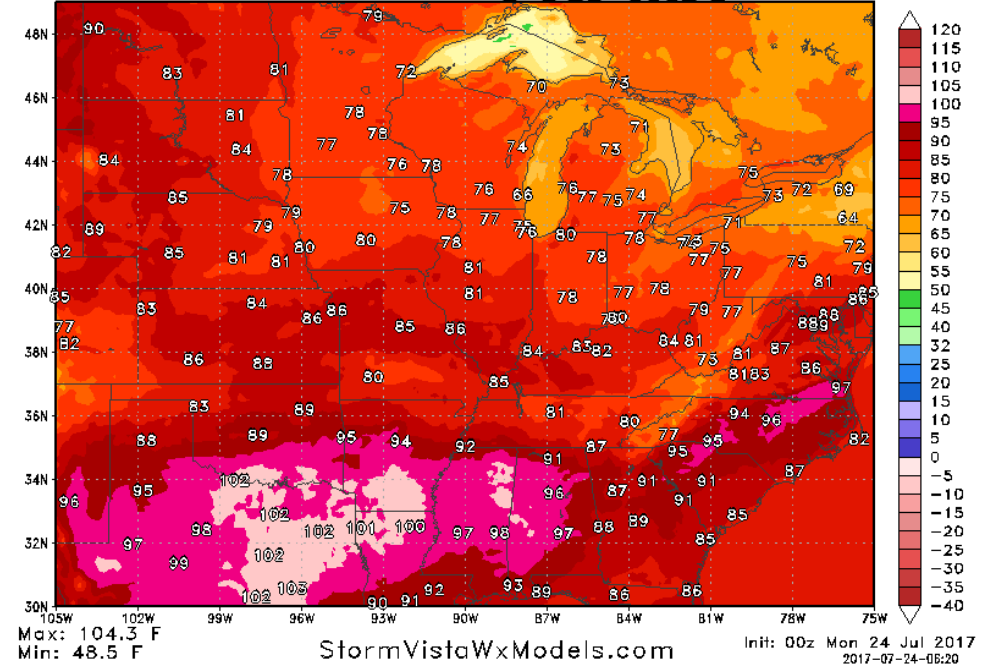
Init: 00z Mon 24 Jul 2017
2017-07-24-02:06

These two images show the overall Jetstream map as of Monday morning and on Wednesday night /Thursday morning. We can clearly see the deep trough has established itself over the eastern US but on Wednesday the heat dome will try to make a comeback. This will send temperatures over portions of the central Plains and the WCB once more into the mid and upper 90s-- but only for day.

2 m Max Temperature (F)
Valid: 00z Thu 27 Jul 2017 **WED MX** ECMWF-MAXRES Hour: 72



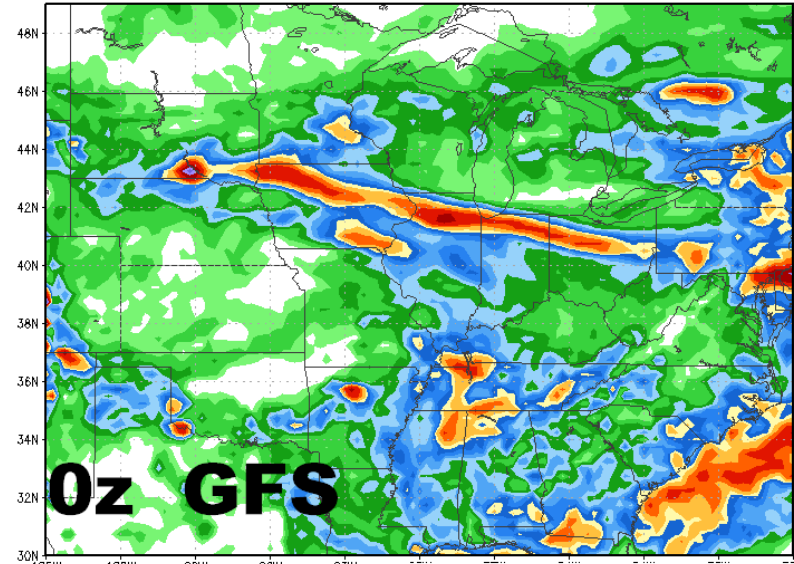
2 m Max Temperature (F)
Valid: 00z Sat 29 Jul 2017 **FRI MX** ECMWF-MAXRES Hour: 120



The early morning (0z GFS) GFS model on Monday was showing all lot more rain with this cold front .This image shows the early Monday morning GFS model and you can see a large area of 1-3"/ 25-75mm rains covering 70% of Iowa ...Illinois... Indiana and northern Ohio ...with additional rains over Mississippi ...much of Tennessee ...and Western Kentucky.

However the European model did not show this much rain with the cold front passage and this is supported by the updated 6Z GFS which also shows a much narrower area of moderate to significant rain over the Midwest. The main difference has to do with Missouri and Kentucky where the GFS model continues to show moderate rains over eastern Missouri and much of Kentucky where the European model has large gaps the rain shield. In addition the GFS has a little more rain over Iowa while the European model has more rain over southern Minnesota and Wisconsin. **All that being said the trend here is for this front to come through weaker with less rain when compared to what the data was showing on Sunday afternoon**

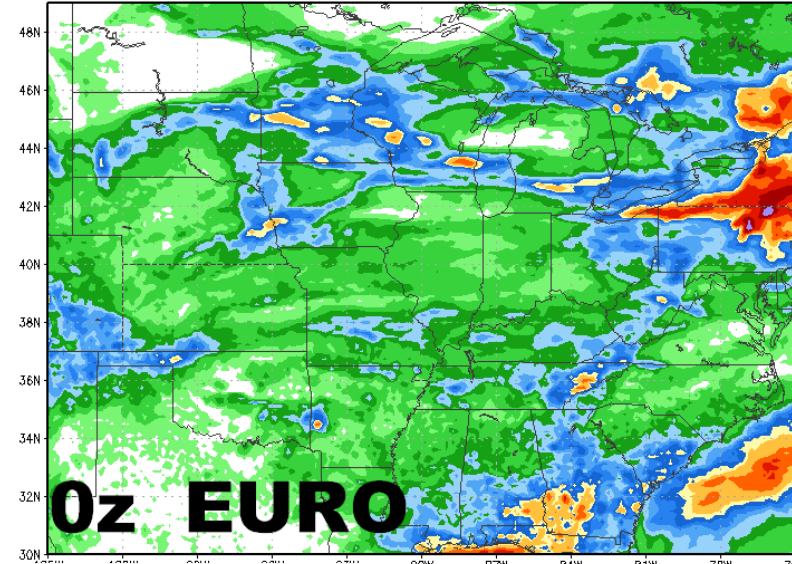
120 Hour Total Precipitation (in)
Valid: 00z Mon 24 Jul 2017 - 00z Sat 29 Jul 2017



Max: 7.1 in
Min: 0.0 in

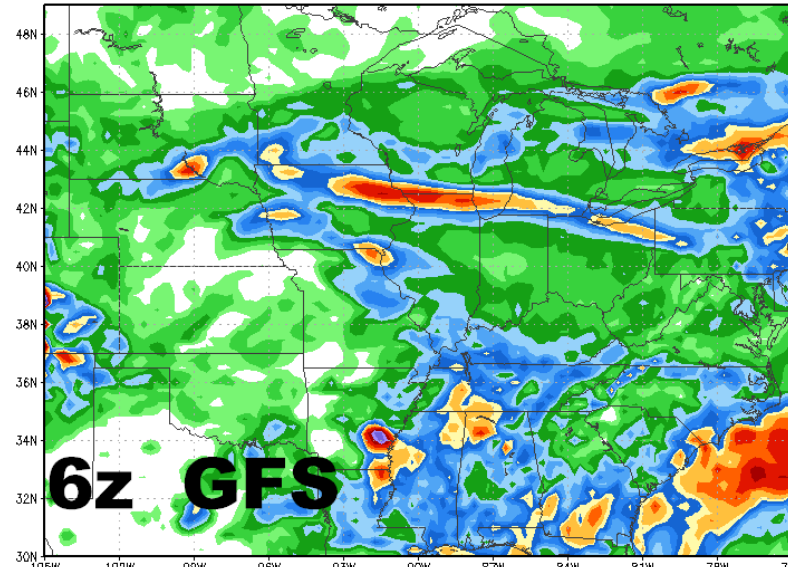
GFS-MAXRES
Hour: 0 - 120

120 Hour Total Precipitation (in)
Valid: 00z Mon 24 Jul 2017 - 00z Sat 29 Jul 2017



ECMWF-MAXRES
Hour: 0 - 120

StormVis 120 Hour Total Precipitation (in)
Valid: 06z Mon 24 Jul 2017 - 06z Sat 29 Jul 2017



Max: 9.9 in
Min: 0.0 in

GFS-MAXRES
Hour: 0 - 120
:taWxModels.com

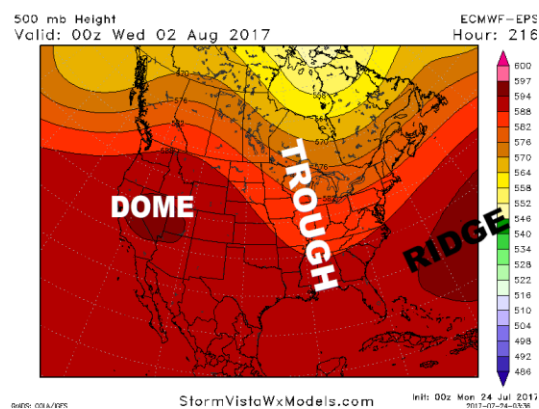
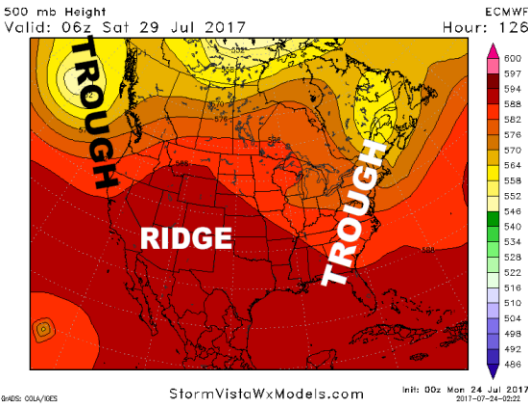
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2017-07-24-06:20

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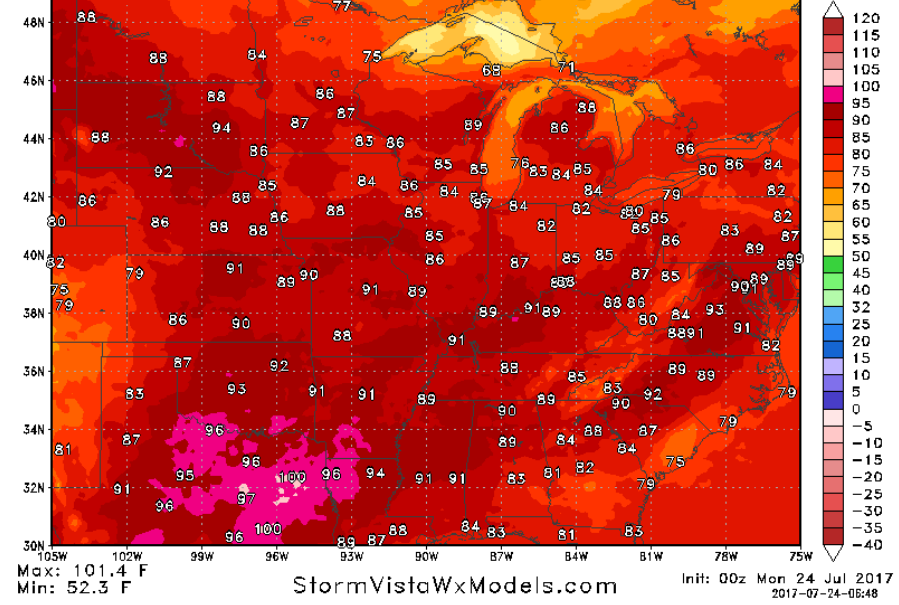
6-10 DAY

The 6-10 DAY looks dry with seasonally cool temperatures for early August. As you can see throughout the 6-10 day the models keep a deep persistent trough either over the East Coast or over the ECB/ Midwest. The ridge and Heat dome is centered well back to the west... over the Southwestern states and as a result the pattern is dry one and temperatures are below normal.

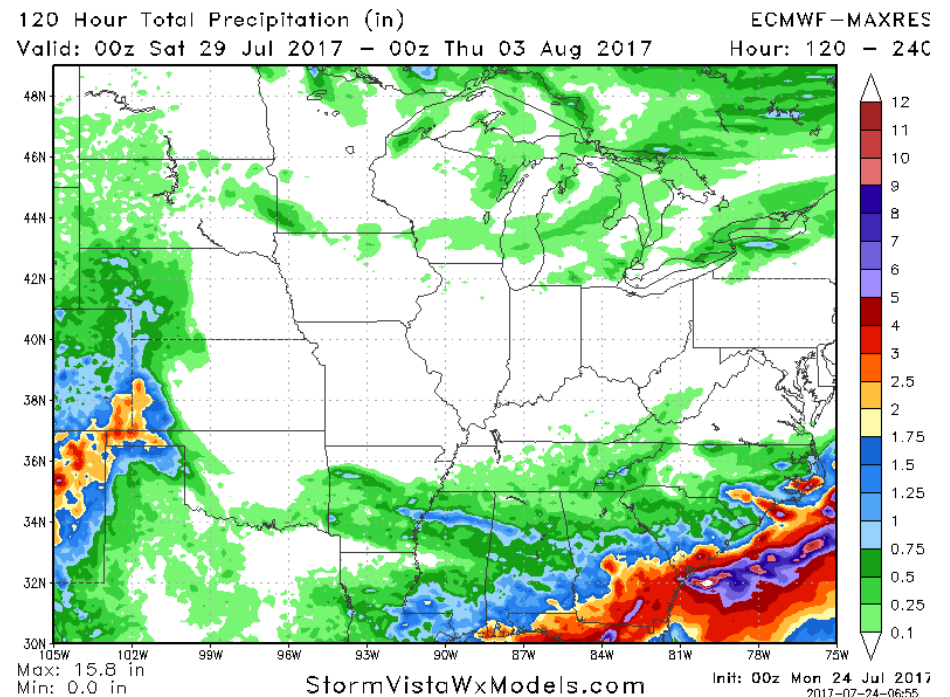
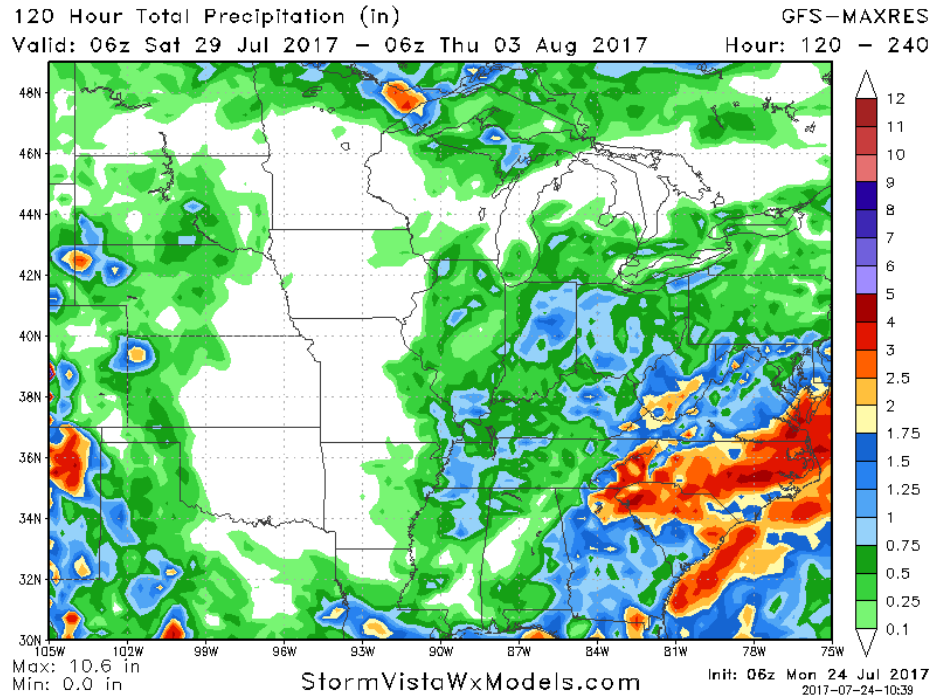
This image from the European model shows temperatures generally in the low to mid 80s cross most the Midwest with a few areas over the southern Midwest approaching 90°. There are some low 90s over portions of the Plains. For early August these are pretty you seem reasonable temperatures and not hard to take it all.



2 m Max Temperature (F)
Valid: 00z Wed 02 Aug 2017
ECMWF-MAXRES
Hour: 216

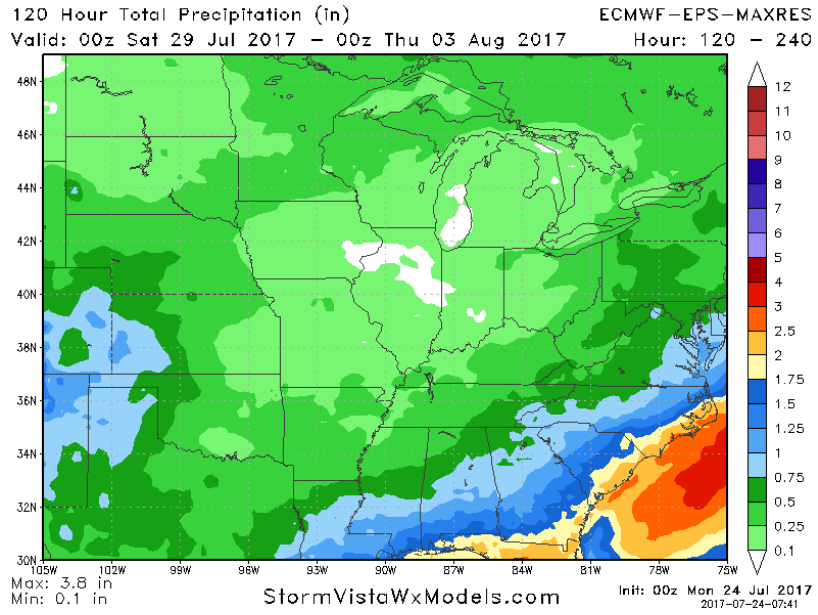
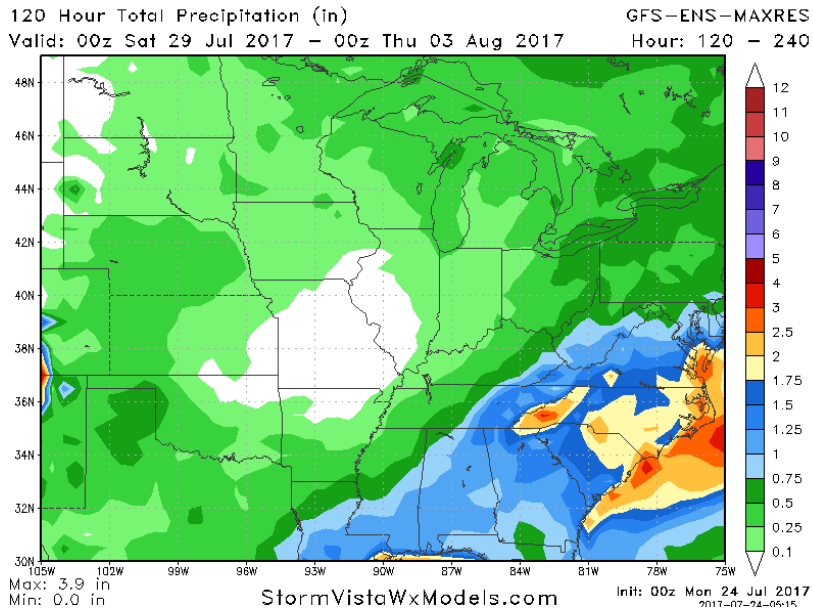


With respect to rainfall... as we stated on Sunday ...the 6 to 10 day for most of the Midwest looks rather dry. The GFS has a bit more rain showers over the ECB than the European which is almost completely dry. Notice that most of the Plains are also dry in this timeframe. The Canadian model (not shown here) is actually a good compromise between the dry European model over the ECB and the wetter GFS model over the ECB. **Again as we stated on Sunday the cold front which comes through the Midwest on Wednesday night and Thursday is probably going to be the only significant rain over the next 10 days for many areas of the Plains and the Midwest**

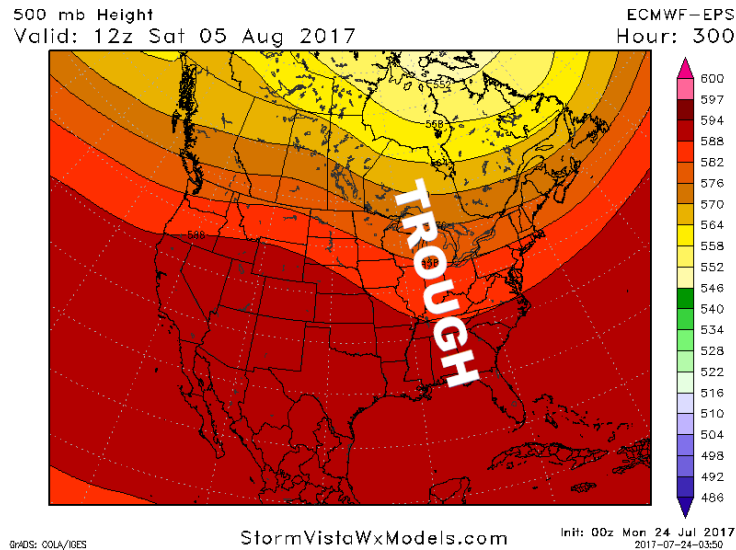


6-10 DAY ENSEMBLE

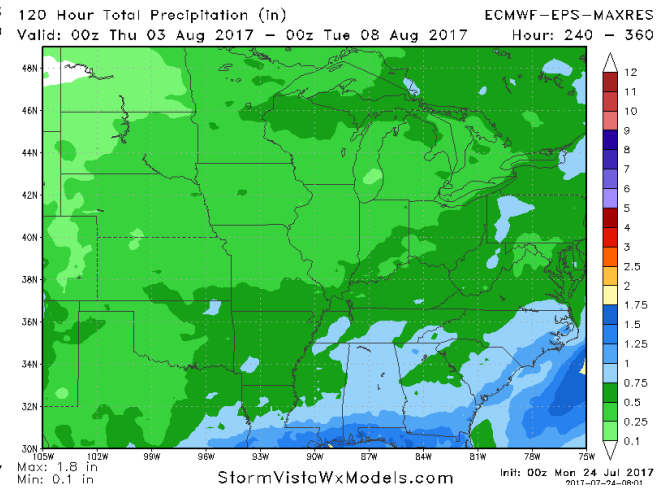
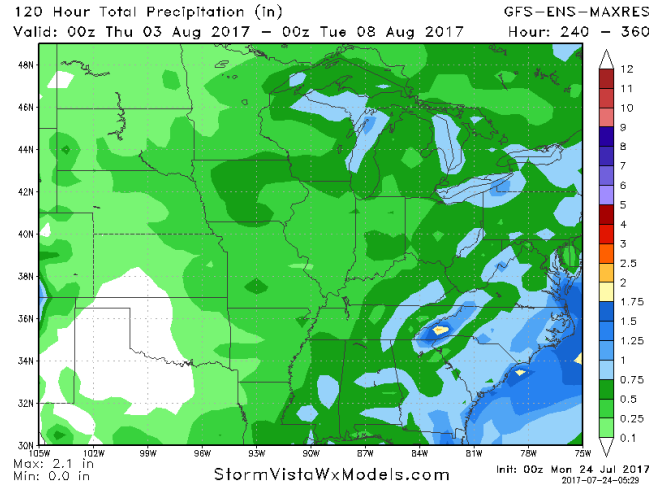
The GFS and European ensemble data is in strong agreement and the GFS does not support the idea of 0.50-1.5"/12-38mm rains 40 to 50% coverage over the ECB that the operational GFS is showing above. Both models show a large areas of Midwest to be either completely dry or mostly dry. We think that solution is correct.



11-15 DAY

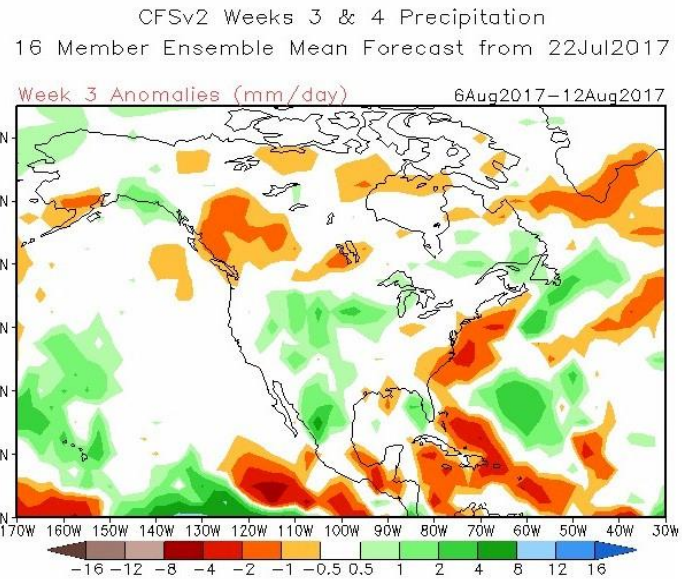
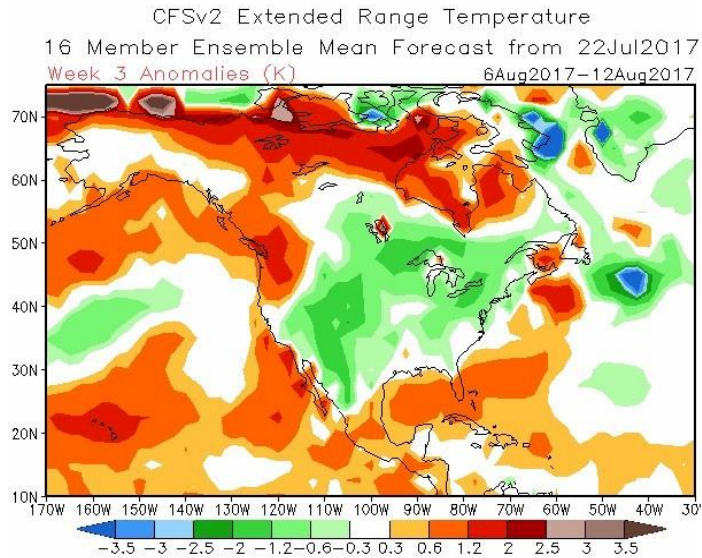


as you can see that persistent trough remains over the eastern third of the country. Because the trough remains in place the pattern remains rather not threatening with respect to heat and fairly dry over most of the Midwest. The GFS and European ensembles are in pretty good agreement with respect to the rainfall pattern - with the best rains clearly falling over the Southeastern states into the Middle Atlantic region. It would not be accurate to say that the Midwest is dry in the 11 to 15 day but any rain that the Midwest and or the central and upper Plains sees will not be significant



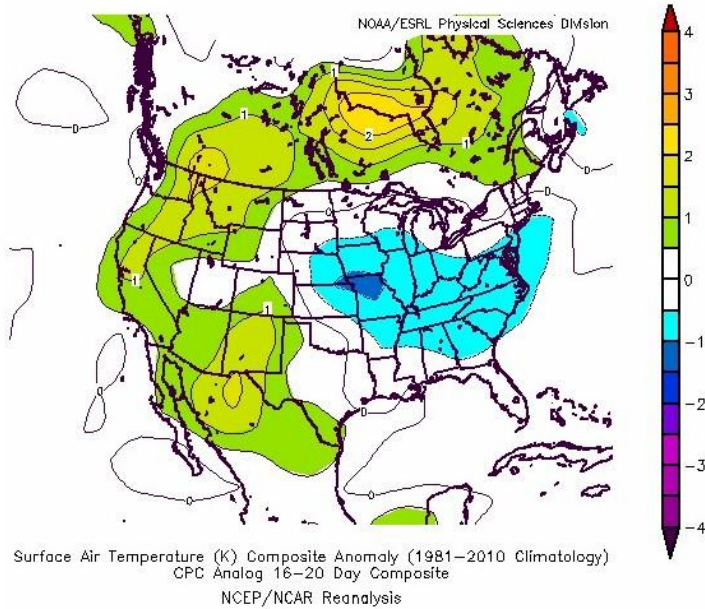
16-20 DAY

The CFS model from Sunday shows the week 3 forecast to feature temperatures below normal from the Rockies to the East Coast and above normal rainfall over portions of the Plains and the WCB and near normal rainfall over the ECB.

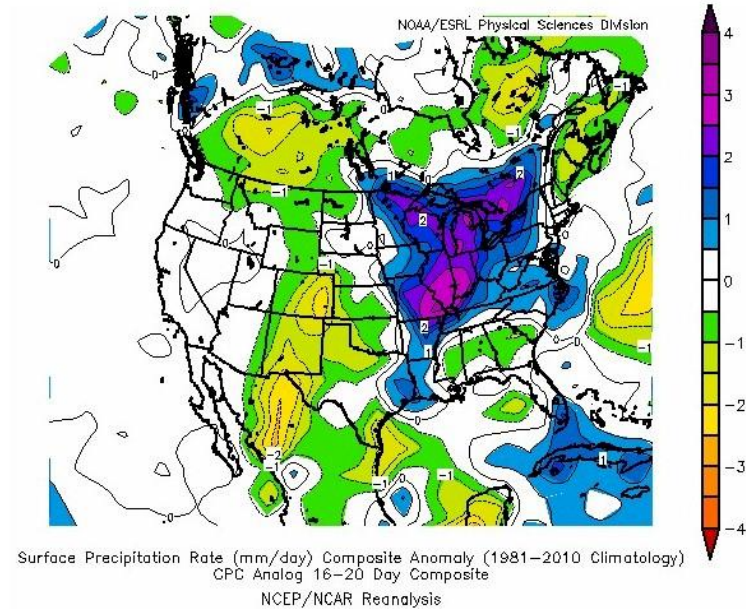


However the 16 to 20 day 'ROLLOVER" model does not support this idea. This model agrees that the coolest temperatures relative to normal will be over the Plains and the Midwest into the Southeastern states and the Middle Atlantic region. But the ROLLOVER model has a very strong signal for much above normal rainfall over the heart of the Midwest 0-in particular over the ECB into the Great Lakes region. It will be important to see what the Monday afternoon CFS model will show and if it has turned wetter in the week 3 ver the Midwest.

16-20 TEMPS



16-20 PRECIP



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