



WX INSIDERS

VOLUME 2 ISSUE 88

18 MARCH 2017

TRADERS GUIDE TO BASIC UNDERSTANDING OF TELECONNECTIONS

(what they are.. what they mean and how they work)

SUMMARY

In this issue we will be talking about the increase rains showing up on the American or GFS weather model over the next 5 days over western/ central portions of the Lower ... and some more moderate rain for the dry areas of the central lower Plains 6-10D... and possibly very heavy rains for the Delta regions in the 6-10D. There is some new information coming out about the EL NINO -- the Australian model is delaying the development of this event until August at the earliest while the American or CFS climate model continues to show moderate El Nino conditions developing during the month of July. There is going to be a widespread heavy rain event across much of the interior portions of southern central and northern Argentina-- mainly to the west of the grain areas but some of the grain areas will be impacted from this heavy rain event. The European model is being hung up about this event for several days while the GFS model is still playing catch up. Finally we start to focus on India..

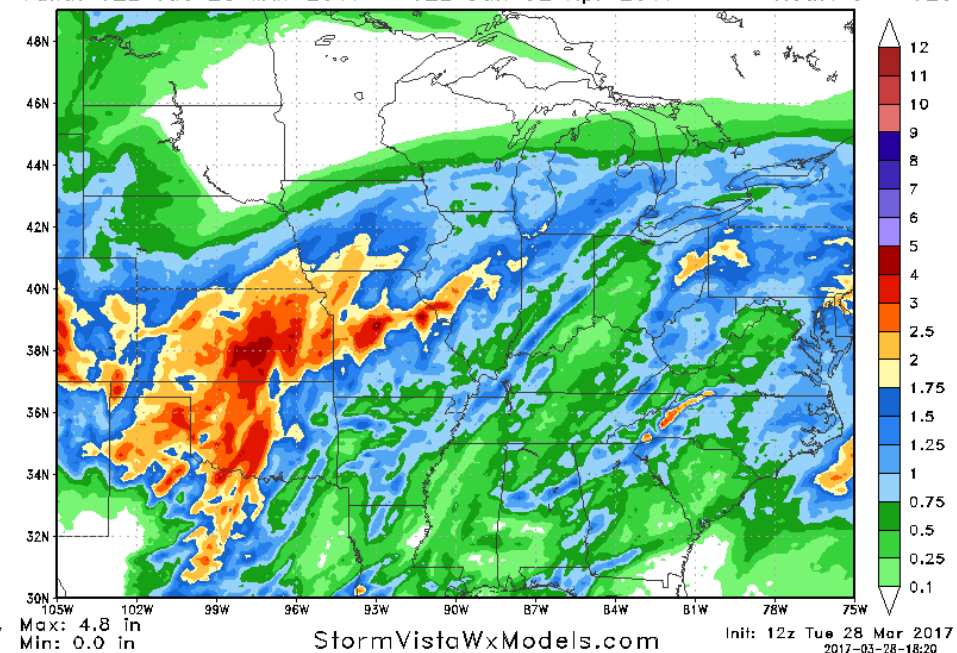
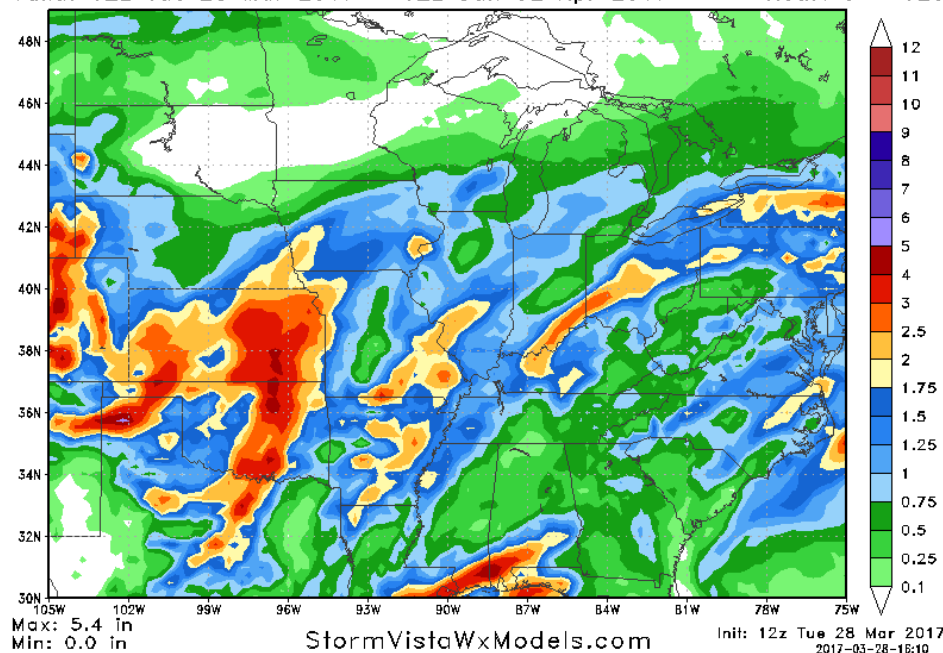
US WEATHER

Here are the midday weather models for the next 5 days showing the total rainfall over the Plains and the Midwest regions. What significant is that over western Kansas and eastern Colorado the operational or regular GFS model is about as wet as the European model has been over the last few days. Earlier if you recall ...there was a discrepancy or difference in the models as to how much rain was going to fall over eastern Colorado and western Kansas and Oklahoma. But as you can see the GFS model has finally caught up to the European model. Notice are also some areas as much as 4"/100mm of rain over central Oklahoma and central /eastern Kansas. The rest of the Midwest sees anywhere from 1.0- 2.5" 25-60mm of rain and the coverage ranges from 70% across Iowa / Missouri / Illinois and about 50% across Kentucky /Indiana/and Ohio.

120 Hour Total Precipitation (in)
Valid: 12z Tue 28 Mar 2017 - 12z Sun 02 Apr 2017

GFS-MAXRES 120 Hour Total Precipitation (in)
Hour: 0 - 120 Valid: 12z Tue 28 Mar 2017 - 12z Sun 02 Apr 2017

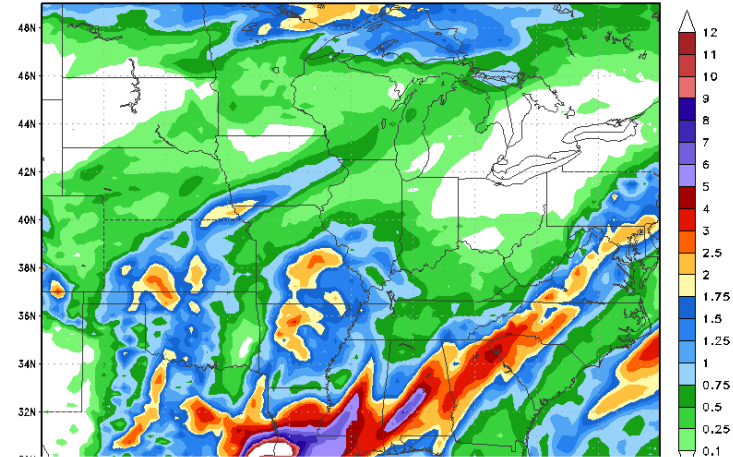
ECMWF-MAXRES 120 Hour Total Precipitation (in)
Hour: 0 - 120



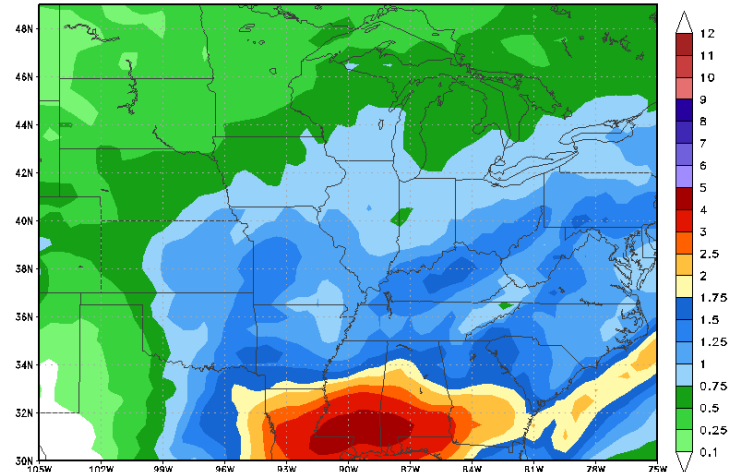
In the 6-10 DAY ... The LEFT t side shows the operational GFS (TOP) and the ensemble (BOTTOM). The two maps of the RIGHT side are the operational Tuesday afternoon European model as well as the th Tuesday morning ensemble. But notice that the GFS model consistently has heavy rain over eastern Texas and most of the Delta and the portions of central Alabama ...Georgia ...and western North Carolina. The European model has a similar sort of rain shield but the rainfall amounts are significantly less both with the

operational model and with the European ensemble.

120 Hour Total Precipitation (in) GFS-MAXRES
Valid: 00z Sun 02 Apr 2017 - 00z Fri 07 Apr 2017 Hour: 120 - 240

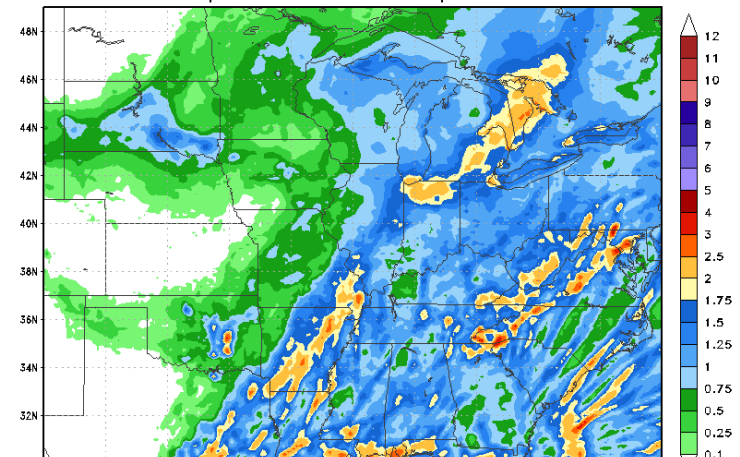


120 Hour Total Precipitation (in) GFS-ENS-MAXRES
Valid: 12z Sun 02 Apr 2017 - 12z Fri 07 Apr 2017 Hour: 120 - 240

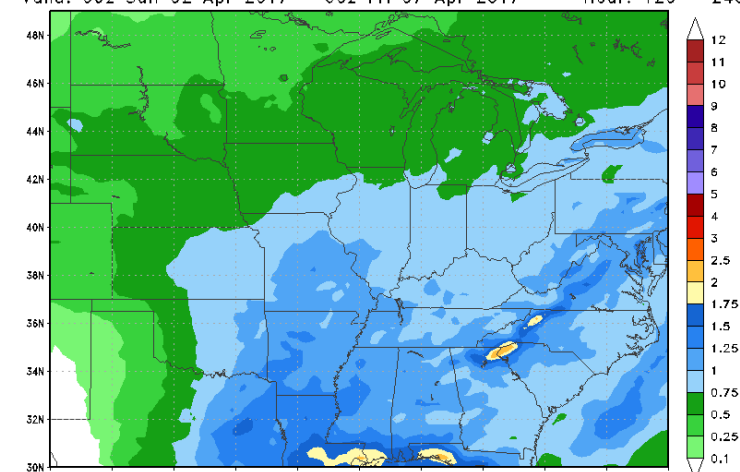


Max: 5.0 in
Min: 0.0 in
StormVistaWxModels.com
Init: 12z Tue 28 Mar 2017 2017-03-28-17:20

120 Hour Total Precipitation (in) ECMWF-MAXRES
Valid: 12z Sun 02 Apr 2017 - 12z Fri 07 Apr 2017 Hour: 120 - 240



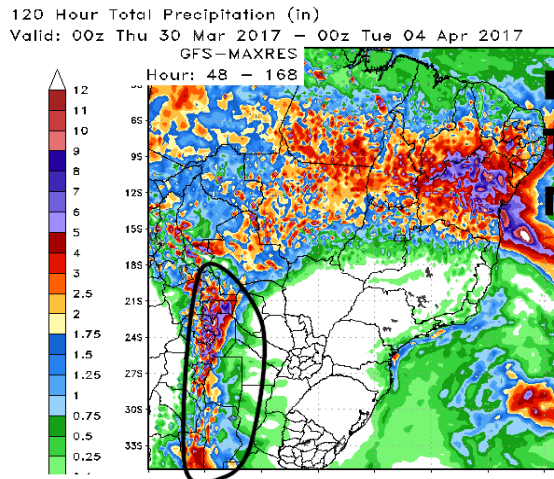
120 Hour Total Precipitation (in) ECMWF-EPS-MAXRES
Valid: 00z Sun 02 Apr 2017 - 00z Fri 07 Apr 2017 Hour: 120 - 240



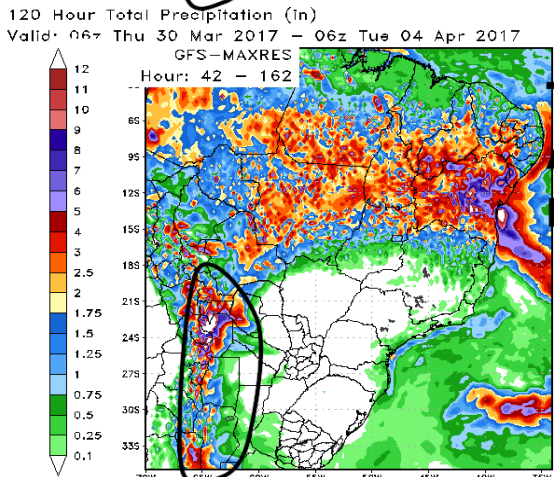
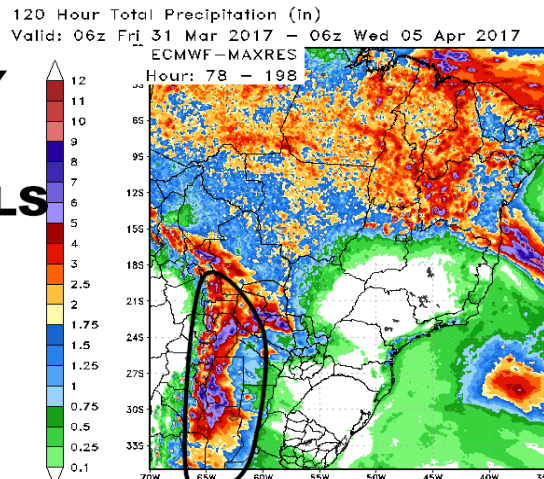
Max: 2.2 in
Min: 0.0 in
StormVistaWxModels.com
Init: 00z Tue 28 Mar 2017 2017-03-28-07:41

Also notice that the operational GFS has a lot dry conditions over most of the Midwest north of central Missouri but the GFS ensemble is significantly wetter across all the Midwest .. central and eastern Kansas to Chicago to Ohio. The European ensemble also has moderate widespread rainfall across all the Delta the Deep South and most of the Midwest.

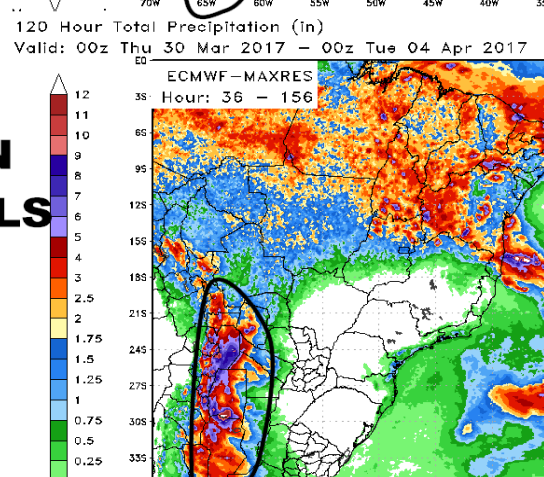
Now lets take a look of what is going on in Argentina. Last week the weather models were showing major rain event developing for all western Argentina .. from La Pampa to Paraguay. The European model over the past several model cycles has consistently shown widespread 3-10"/ 75-250mm rains over areas such as the northwest half of Cordoba ...San Luis... Santiago Del Estereo..into the western half of Chaco and Formosa and into western Paraguay. The GFS model has consistently showed not nearly as much rain and the rainfall area over the western portions of Argentina has ben significantly weaker as well. This trend is continue here on Tuesday.



**EARLY
TUES
MODELS**



**TUES
AFTRN
MODELS**



Max: 27.9 in
Min: 0.0 in

StormVistaWxModels.com

Max: 12 in
Min: -0.0 in

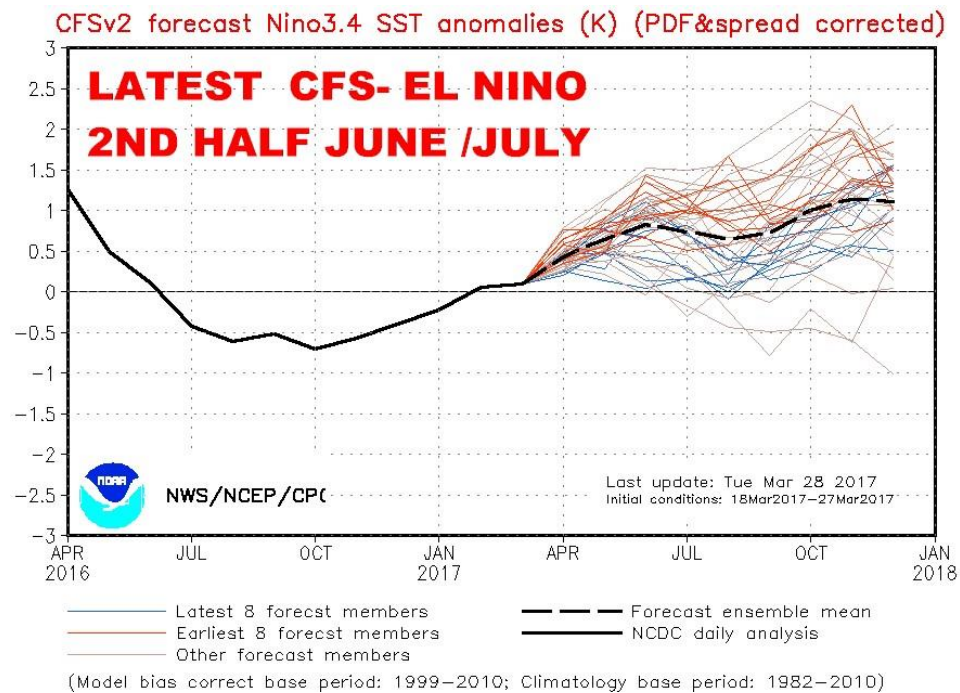
StormVistaWxModels.com

The two maps on the LEFT are the 5 days rainfall forecast from the operational GFS models from early Tuesday morning (top) and Tuesday afternoon (bottom). The two maps on the RIGHT show th 5 day rainfall forecast from the European model -again from Tuesday morning and Tuesday afternoon.

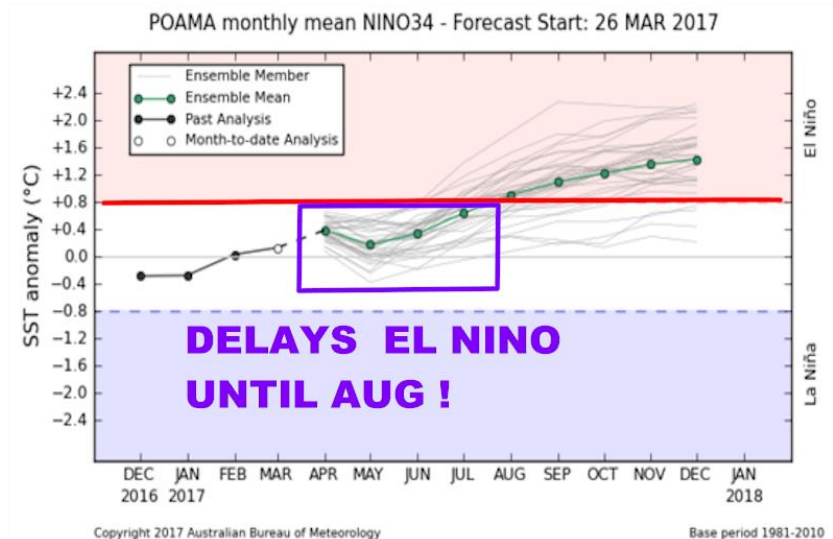
What is important to notice here is that again the GFS model shows significantly less widespread heavy rain over the western portions of central and northwest Argentina. It will be interesting to see over the next seven days whether not these sorts of impressive rainfall actually shows up.

Taking a look at El Nino

the CFS updated forecast model continues to show weak then moderate El Nino conditions developing in ENSO region 3.4 by late June or July. The El Nino reaches moderate intensity into the Autumn months according to this latest CFS ensemble. However the new Australian El Nino model show something dramatically different. As you can see it now significantly delays the arrival of a El Nino until August at the earliest. Even when then the Aussie El Nino model develops a significantly weaker El Nino event ehen what the CFS model is forecasting. It will be interesting to see if the new European El Nino model... when it comes out in the first week of April... is following this trend or is it sticking with the previous European model runs of a moderate El Nino developing by July

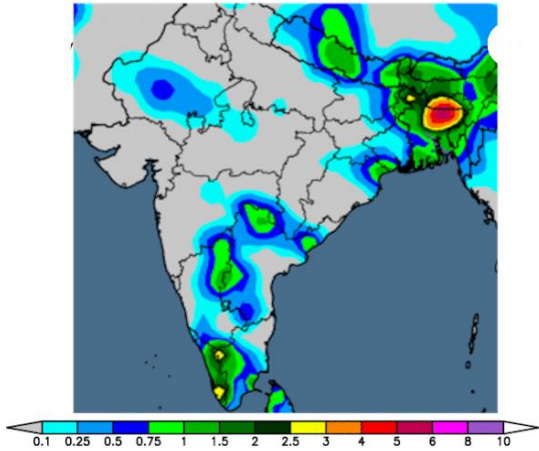


RED LINE = MIN THRESHOLD FOR
WEAK-MOD EL NINO CONDITIONS

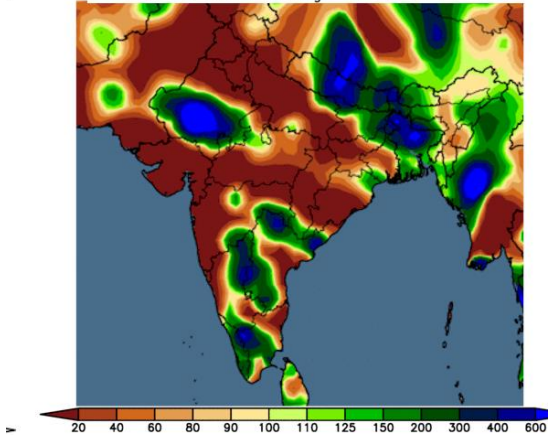


Taking a look at India ...temperatures have been significantly warmer than normal over the past 7 days. Two weeks ago there were areas of moderate rain over southern areas of India 0.25-1.0"/6-25mm over 50% of Andhra Pradesh far eastern Karnataka and southern Rajasthan. But most of central and northern portions of India have been pretty dry.

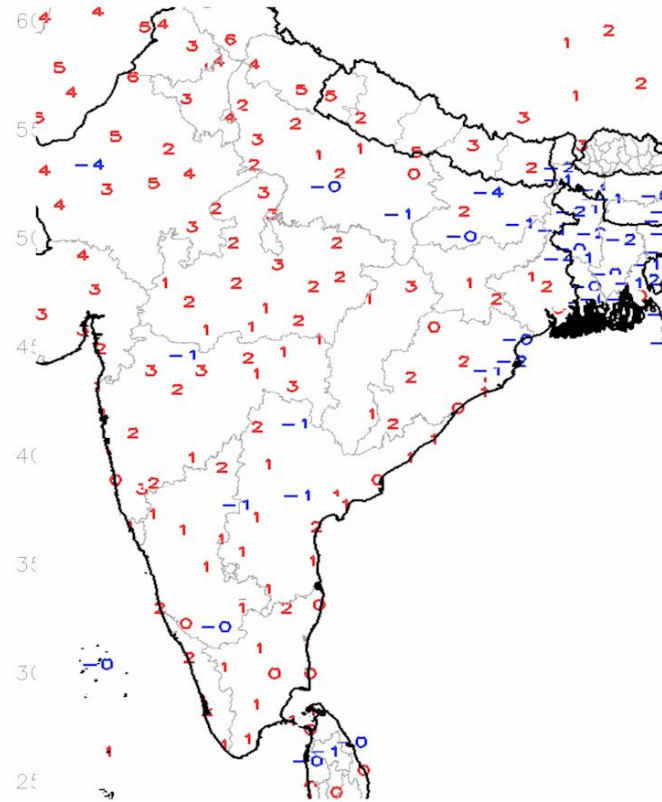
14-day Precipitation Analysis
Observed precipitation (inches) through 12 UTC 27 Mar 2017



14-day Precipitation Analysis
Percent of normal through 12 UTC 27 Mar 2017



7-Day Average Temperature Anomaly (C)
Period: 21Mar2017 - 27Mar2017

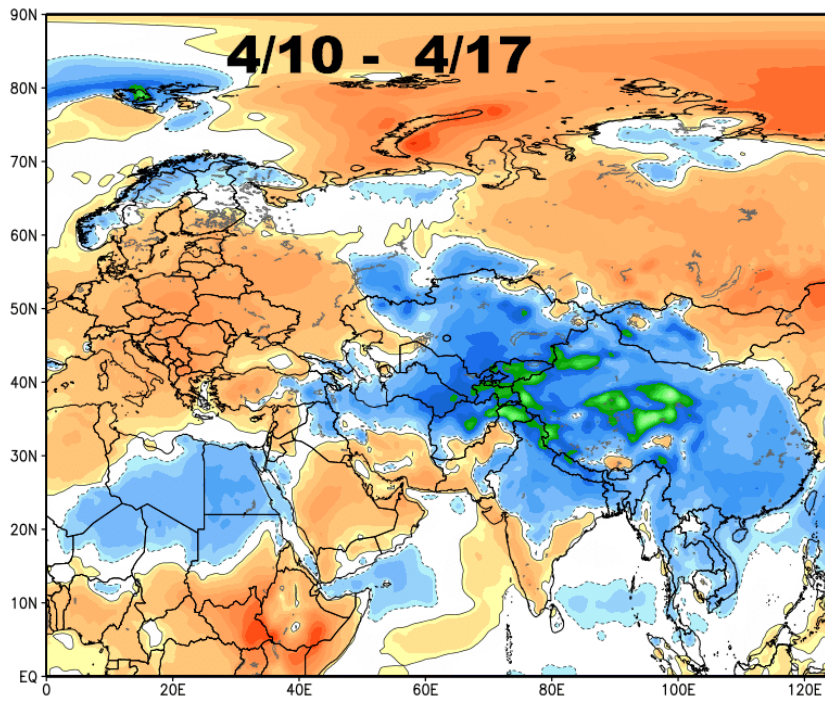


While it does look like the heat is going to continue for another week or so... the extended European weekly models are showing significant cooling temperatures for central and Northern India for most of the month of April.

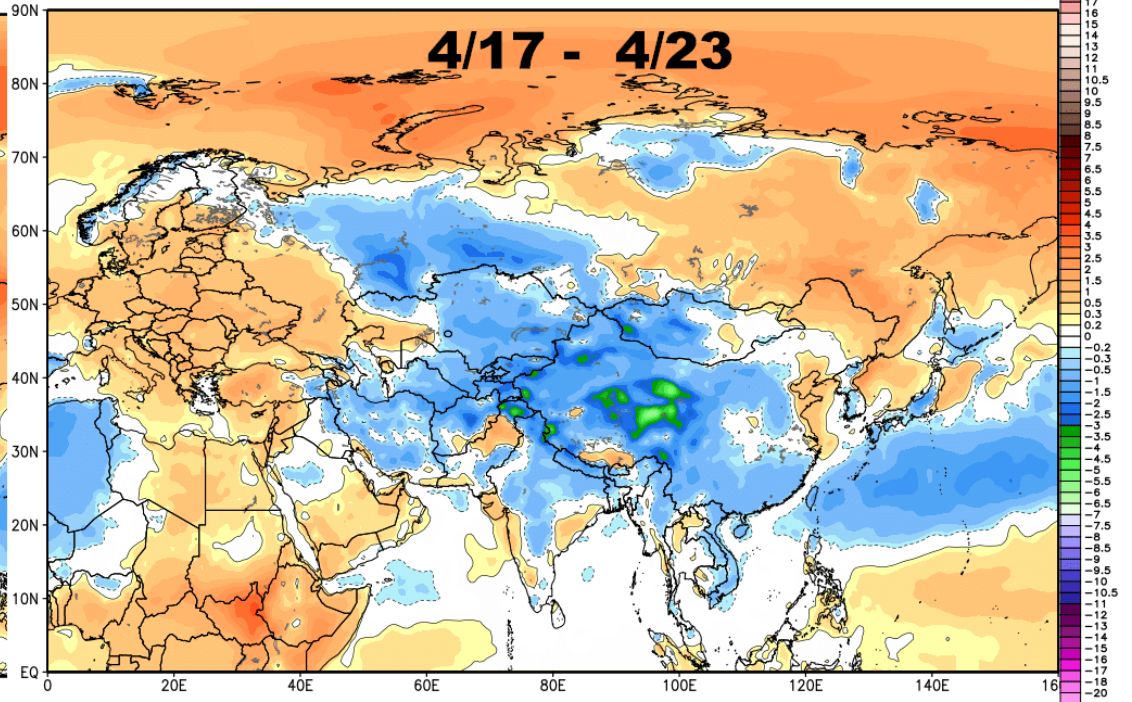
ECMWF EPS Ensemble Mean 7-day Avg 2m Temperature Anomaly [°C]
Init: 00Z27MAR2017 -- [504] hr --> Valid on Mon 00Z17APR2017

Min|Max: ECMWF EPS Ensemble Mean 7-day Avg 2m Temperature Anomaly [°C]
Init: 00Z27MAR2017 -- [672] hr --> Valid on Mon 00Z24APR2017

Min|Max: -8.1° | 4.3°C



Average between 00Z10APR2017-00Z17APR2017 | ECMWF EPS 1997-2016 Hindcast Climatology



Average between 00Z17APR2017-00Z24APR2017 | ECMWF EPS 1997-2016 Hindcast Climatology

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