



SOUTH AMERICA GRAIN WEATHER

1/29/18 OVERVIEW

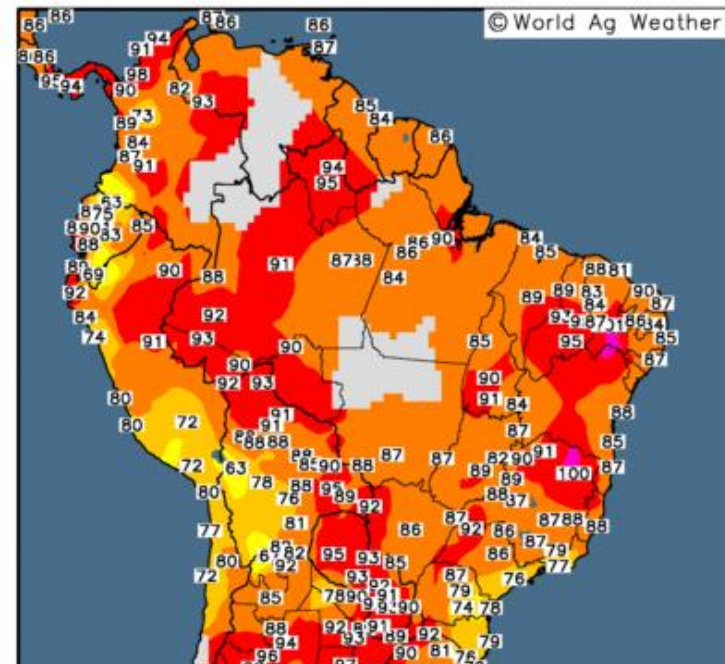
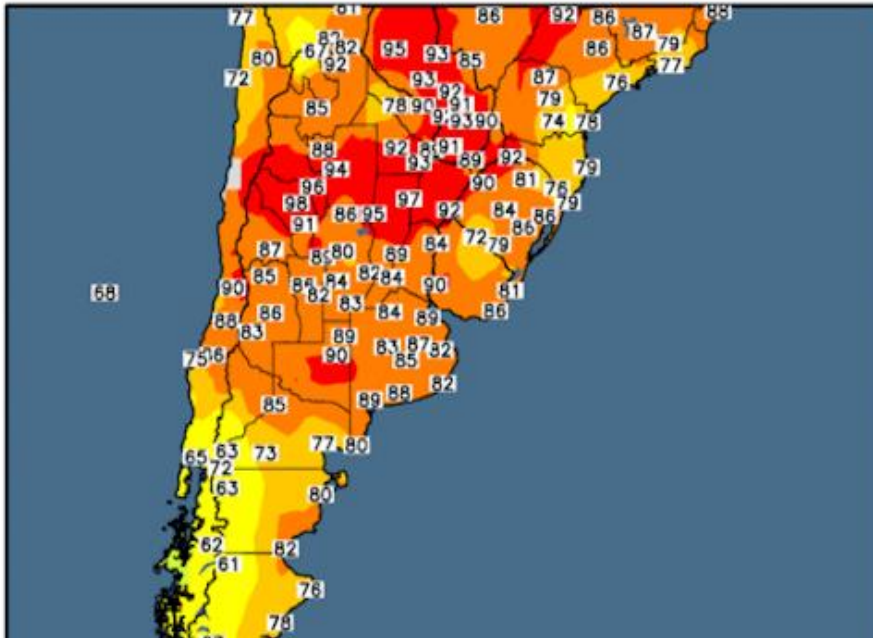
SUMMARY

The Models over the weekend and this Monday morning have NOT changed at all. The lack of ANY rain over 0.50"/12mm over any portion of Argentina over the next 10 days is really quite remarkable. The 11-15 day operational or regular GFS model does bring some moderate rains into all of Argentina but the GFS ensembles are much drier as is the European ensemble. This just highlights how awful the Operational or regular GFS model is in the 11-15 day. None of the MJO data has changed either ... and both the Rossby wave week 3 and week 4 model and the CFS week ... week 4.. and week 5... keeps all of Argentina in below Normal or Much Below Normal rainfall. In Brazil all models still show HUGE rains over the next 10 days. The GFS and even the operational European model has 12-17 inches of rain over central Brazil. For weeks and months much of central and eastern Brazil has been in a severe drought and some of this drought has been going on for years. If this data is correct the drought may end by FEB 10

S.AMERICAN MAX TEMPS JAN 27

Max temperatures on the 27th were close to seasonal over most of Argentina and Brazil. Northern Argentina did see some readings in the 92-97f/ 32-36c as did portions of Bahia in Northeast Brazil.

Observed Maximum Temperature (°F) 27 Jan 2018

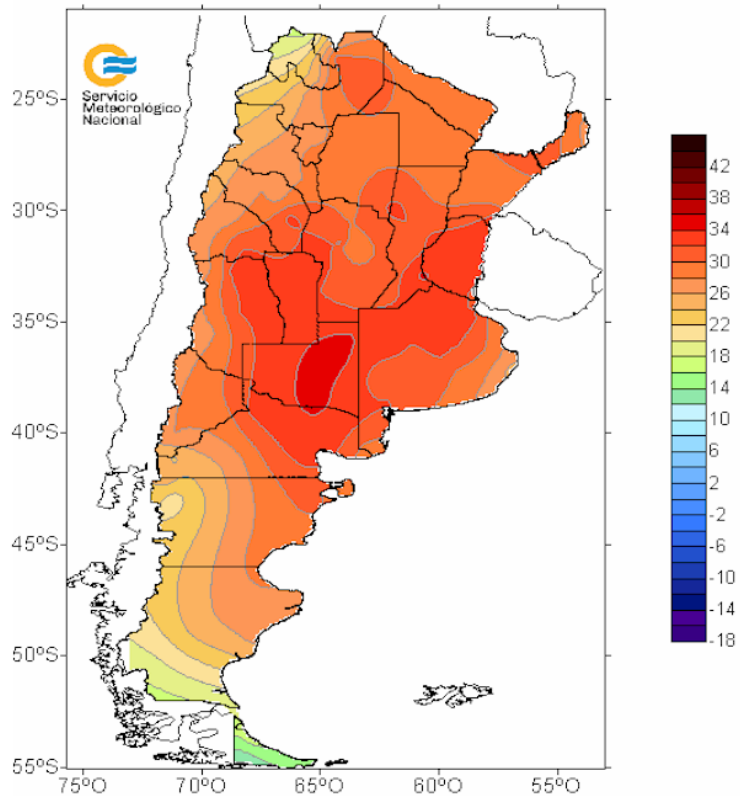


S.AMERICAN MAX TEMPS JAN 28

Max temperatures were seasonally warm over most of Argentina on Sunday. There was a small area of readings into the low 90s/ 32c in La Pampa. In Brazil most of western southwestern and southeast areas saw seasonal temperatures with no serious heat issues. Readings did reach the Low 90s over northeast Minas Gerais Tocantins and Bahia

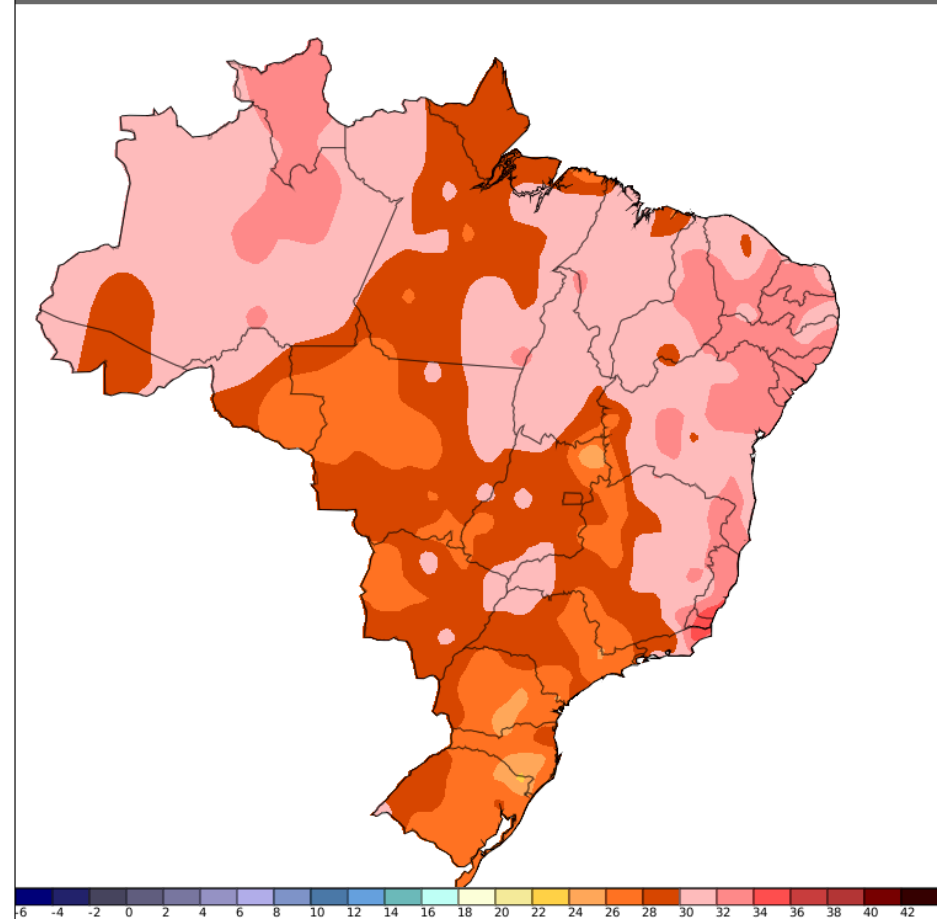
TEMPERATURAS MAXIMAS

28 de Enero de 2018

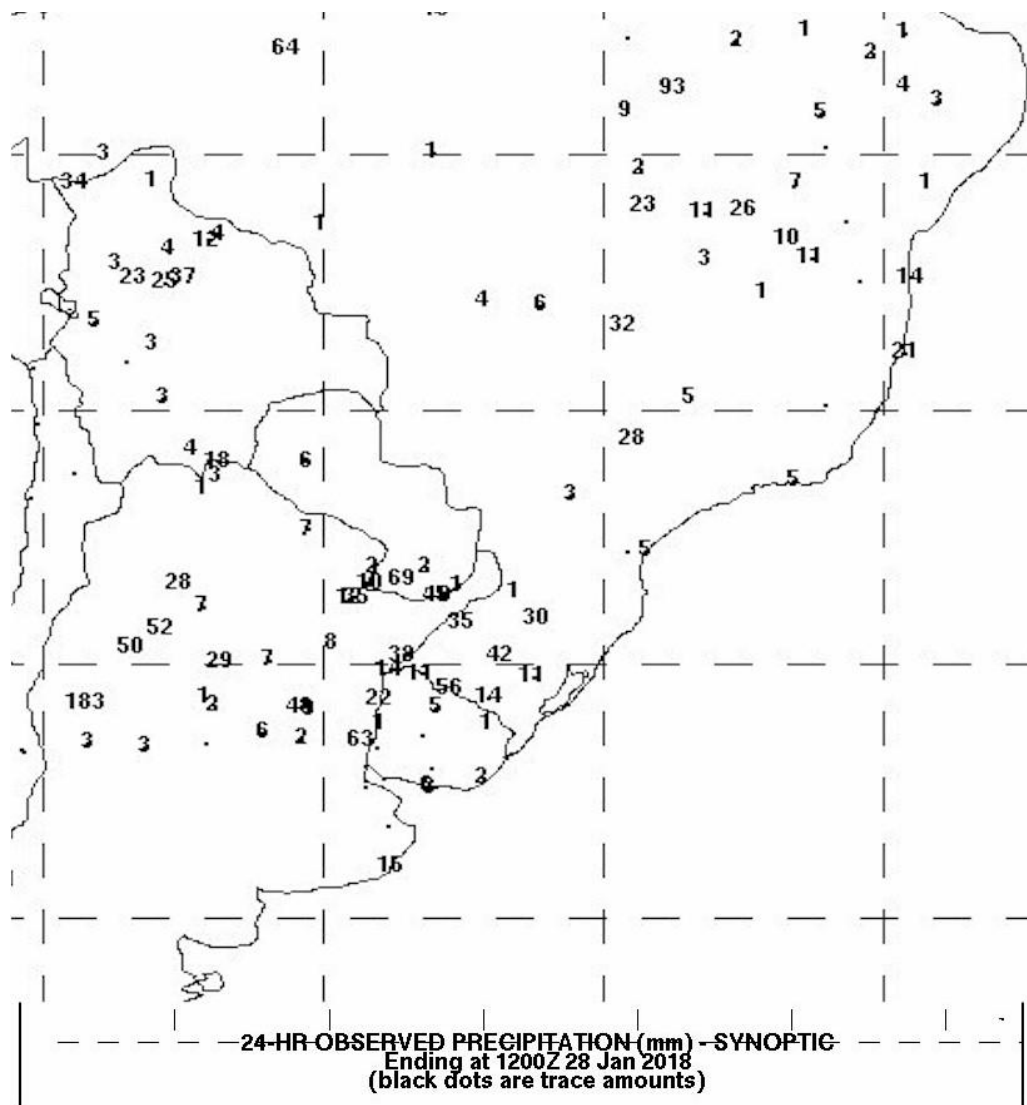


Servicio Meteorológico Nacional

Instituto Nacional de Meteorologia - INMET
Temperatura Máxima (°C)
Informações Sinóticas do dia 29/01/2018 às 15:00 UTC

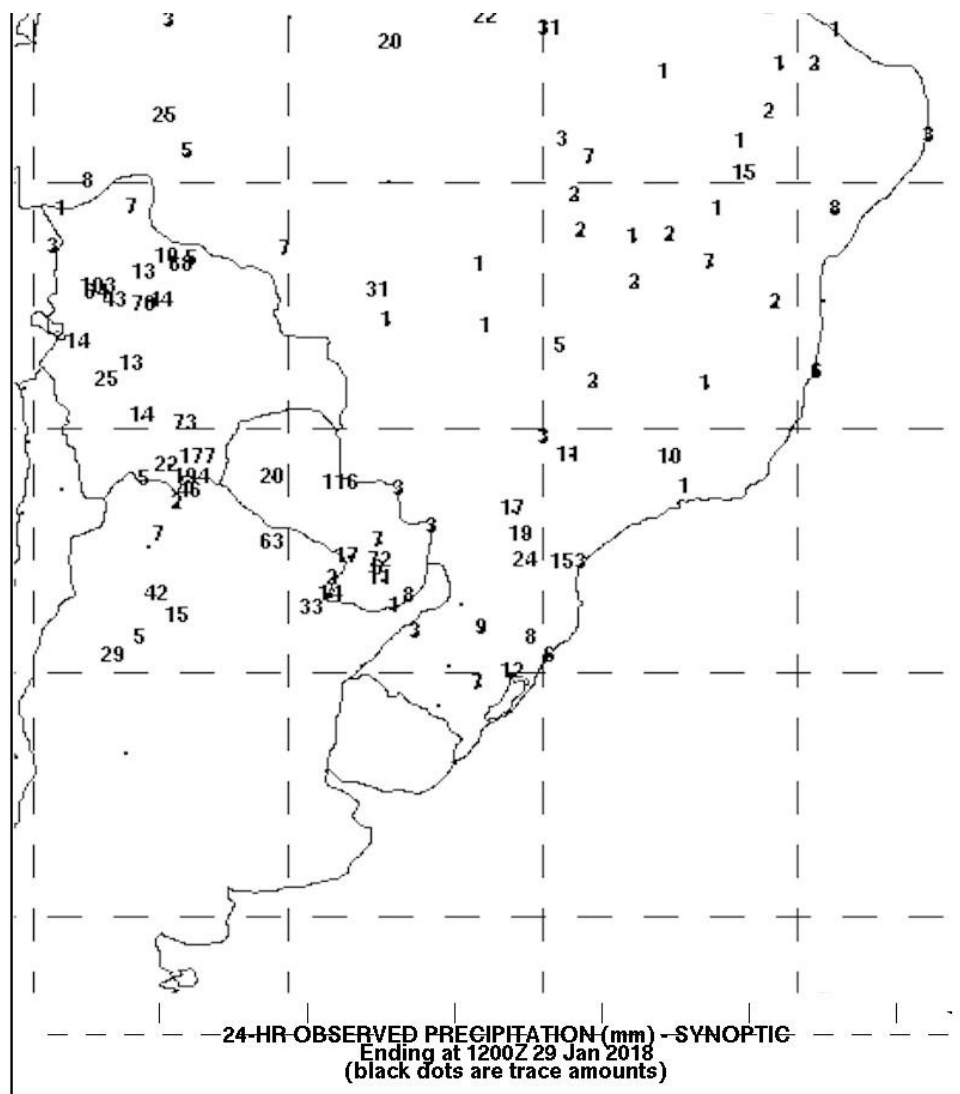


RAINFALL JAN 27-28/ RAINFALL JAN 28-29



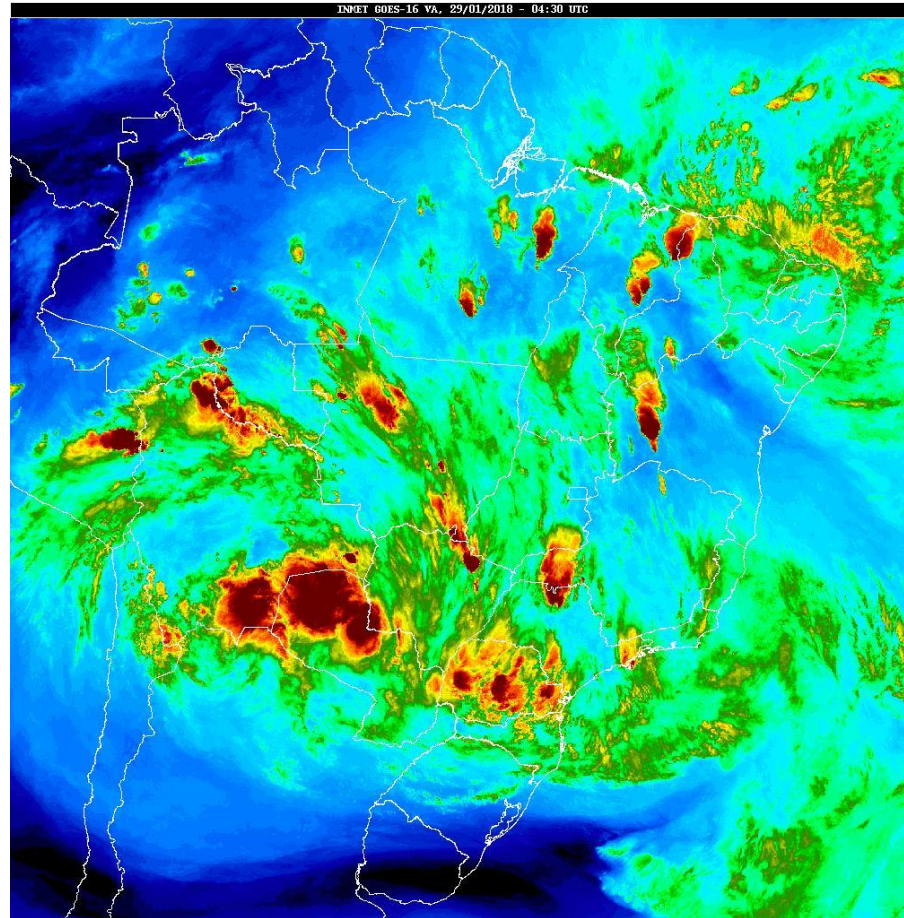
ARGENTINA - As you can see there was moderate r to significant rain across the northern third of Argentina on Saturday into Sunday. Rainfall amounts range from generally 6 to 70mm/ 0.25-2.8" with 60 to 70% coverage over RGDS in southeast Brazil... Corrientes... far eastern Chaco and far eastern Formosa... northern half of Santa Fe ... northern half of Entre and northern third of Cordoba. Coverage was about 60%.

BRAZIL --I there was not a lot of activity. There was a cluster of moderate to locally heavy rains over northwest Sao Paulo into southern Goias 5 to 32mm/ 0.25 to 1.25" 40% coverage and 3 to 26mm/ 0.15 to 1.0" over northwest Minas Gerais western Bahia and Tocantins with 50% coverage.



Rainfall January 28 into the morning of the 29th featured no significant rain over most of central ..eastern... and south central Argentina. Even the northern areas that saw significant had much less coverage. Central and eastern Paraguay as well as most of Formosa in far northern Argentina did see 10-115mm/ 0.40-4.5" with 60 to 70% coverage. Much lighter rains fell over RGDS under 12mm/ 0.50" with 50% coverage. Parana saw good rains of 11-150mm/ 0.40-6.0" with 50% coverage. Over Mato Grosso Tocantins Goias and western Bahia there was light rain widely scattered of no significance .

The overnight early morning satellite pictures are quite formidable. There is a cluster of strong storms pounding western Paraguay and the storms extend into Parana MGDS and western Mato Grosso. All of Argentina was completely clear of any sort of cloud cover.

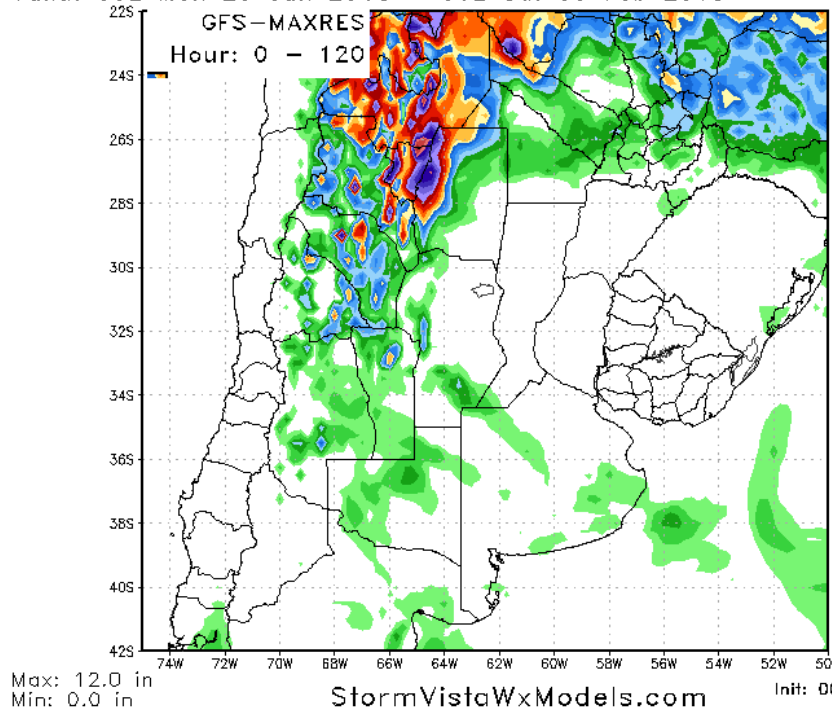


NEXT 5 DAYS ARGENTINA

The forecast models have not change from last night over the next e days in Argentina. As you can see the entire area some is completely devoid of any sort of rainfall- even minor rainfall. Usually this time of year it is very difficult to see Argentina this completely dry and rain free for a five day interval.

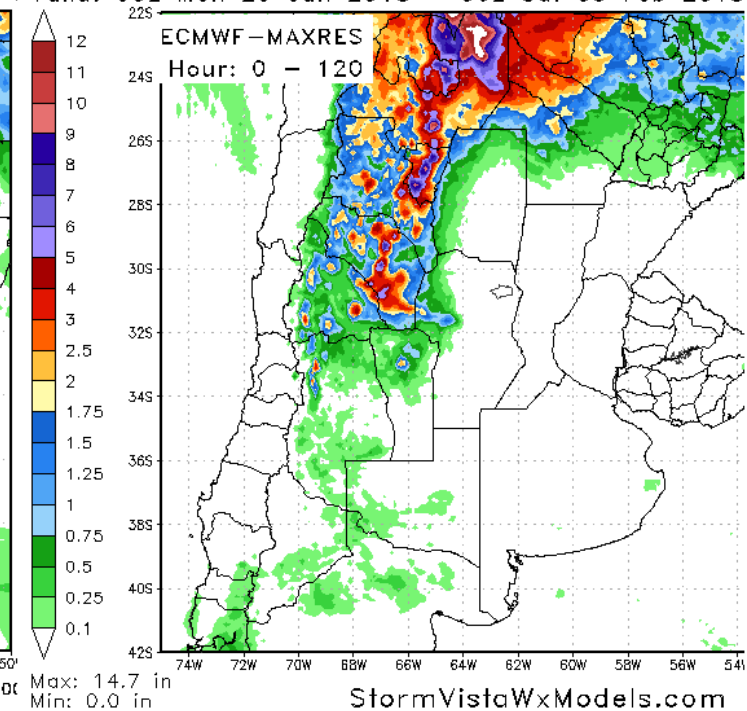
120 Hour Total Precipitation (in)

Valid: 00z Mon 29 Jan 2018 – 00z Sat 03 Feb 2018



120 Hour Total Precipitation (in)

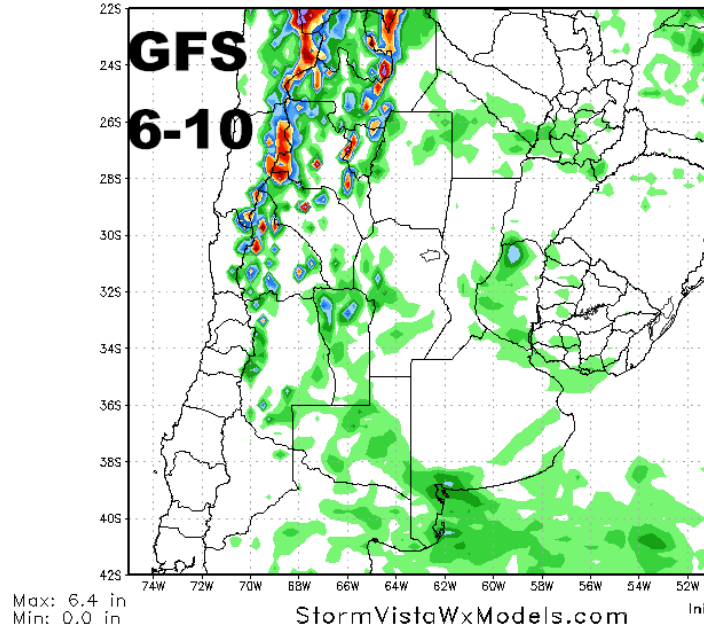
Valid: 00z Mon 29 Jan 2018 – 00z Sat 03 Feb 2018



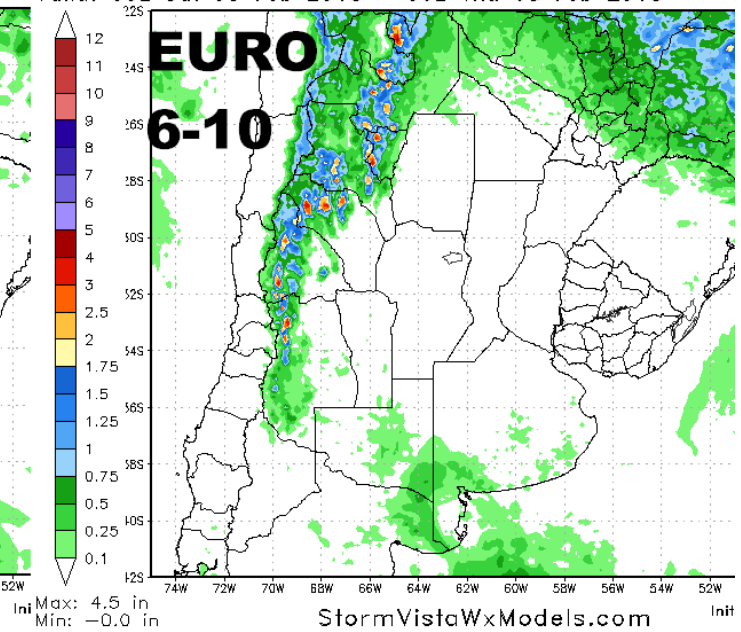
6-10 DAY ARGENTINA

Again the models early this Monday morning have not changed at all from what the data showed Sunday morning or Sunday afternoon. 90% of northern ...central ...and eastern Argentina remains completely dry. Only the GFS model has some widely scattered light rain showers over San Luis. Both models have some very light stuff over far southwestern Buenos Aires. **The 6-10 day ensemble are just as strong with a dry pattern as the operational models are. The European seems to have a bit more very light rain over portions of La Pampa and far southwest Buenos Aires but this is probably just model variance and of no significance**

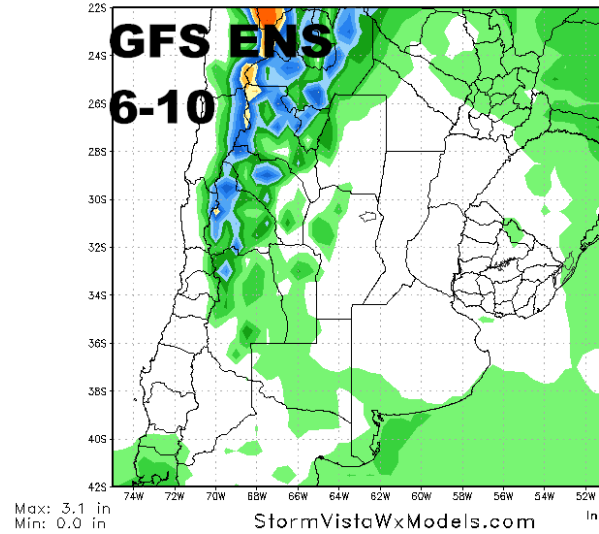
120 Hour Total Precipitation (in)
Valid: 00z Sat 03 Feb 2018 – 00z Thu 08 Feb 2018



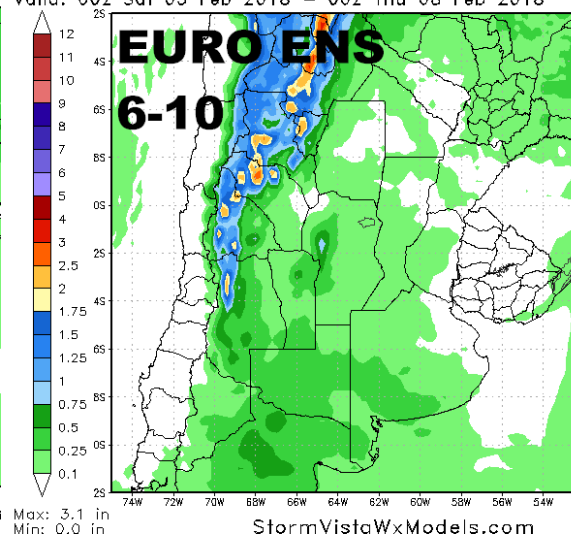
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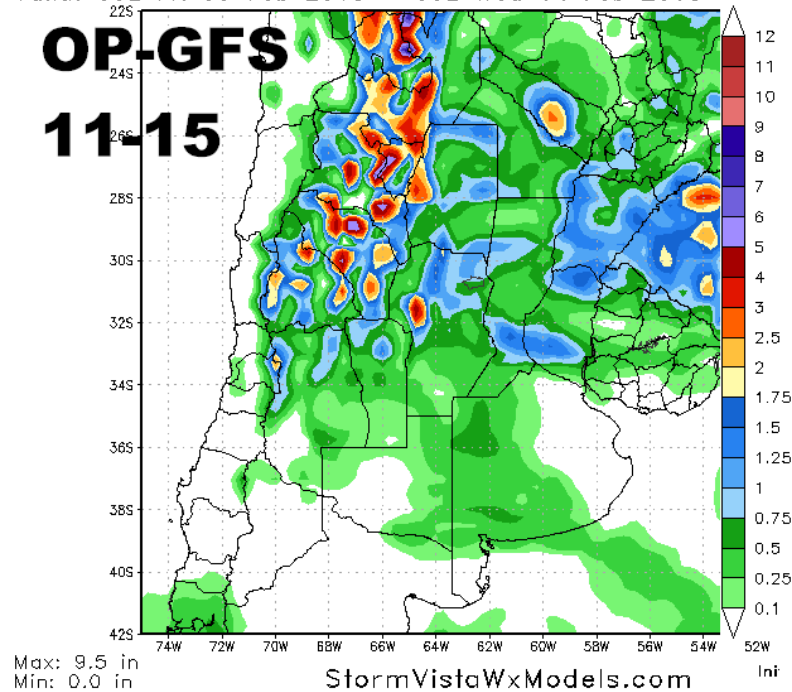
11-15 DAY ARGENTINA

As is typically the case when you get to the operational GFS model in the 11 to 15 day...it usually goes off the rails at some point or another ... whether we are dealing with South America .. US .. Europe .. Russia or China or what have you. In this case we can see the same sort of thing happening. These two images show the operational GFS model. The image on the LEFT refers to the early GFS which came out at 1:00 AM Monday morning and the image on the RIGHT refers to the operational GFS which came out at 6:00 AM on Monday morning. Notice of both models have substantially increased rainfall coverage over much of Argentina.

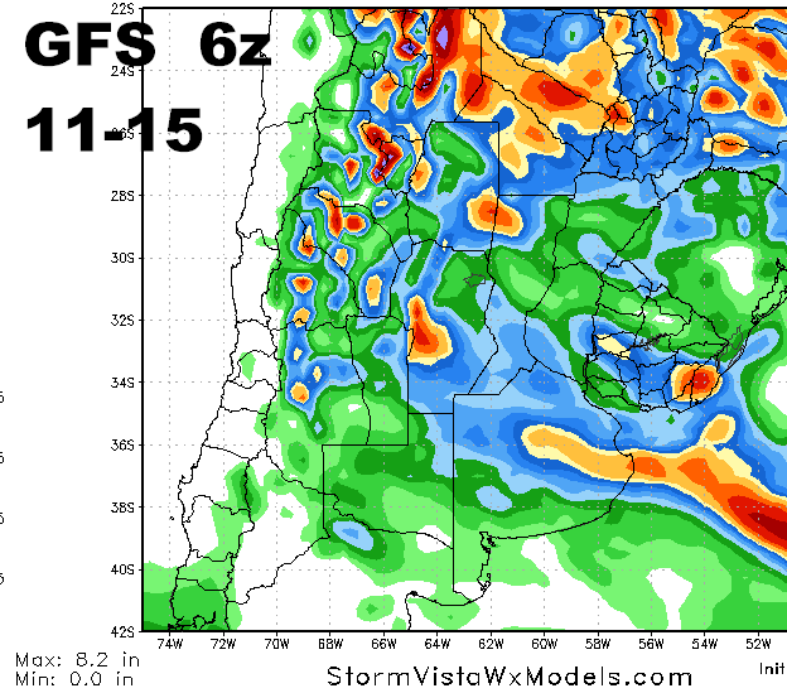
However when you compare those 2 images to the GFS ensemble you see that there is no support the the one of these solutions.

The European ensemble does seem to show a little bit of light rain over portions of Cordoba around February 10-11 but that's about it.

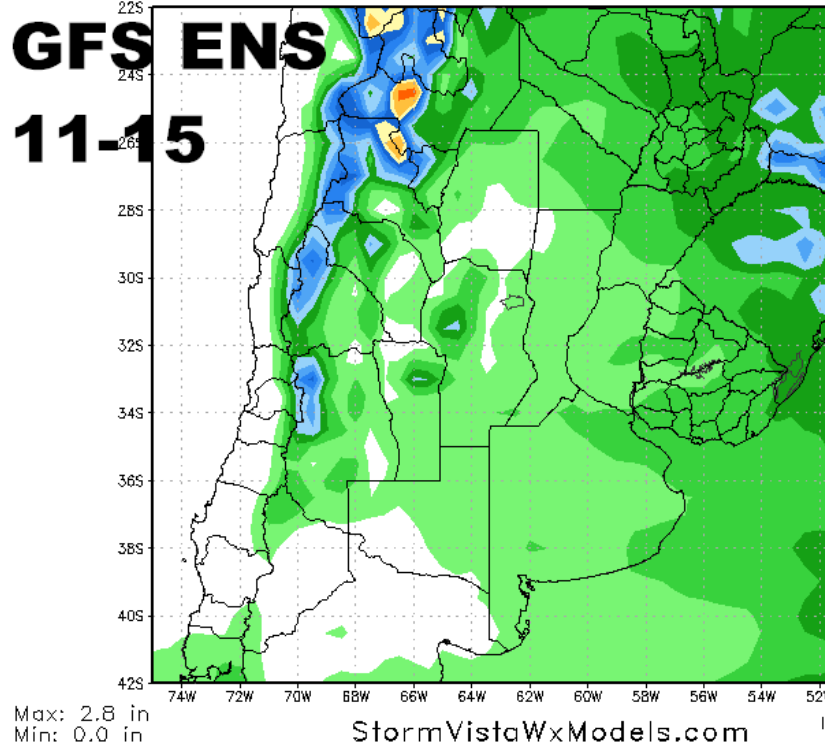
120 Hour Total Precipitation (in)
Valid: 00z Fri 09 Feb 2018 – 00z Wed 14 Feb 2018



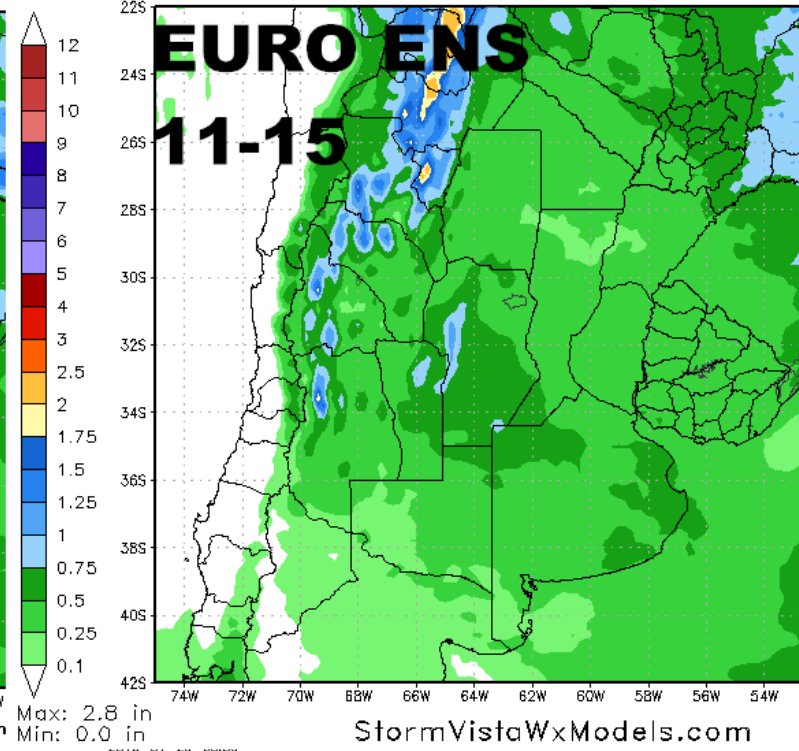
120 Hour Total Precipitation (in)
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120 Hour Total Precipitation (in)
Valid: 00z Thu 08 Feb 2018 – 00z Tue 13 Feb 2018



120 Hour Total Precipitation (in)
Valid: 00z Thu 08 Feb 2018 – 00z Tue 13 Feb 2018

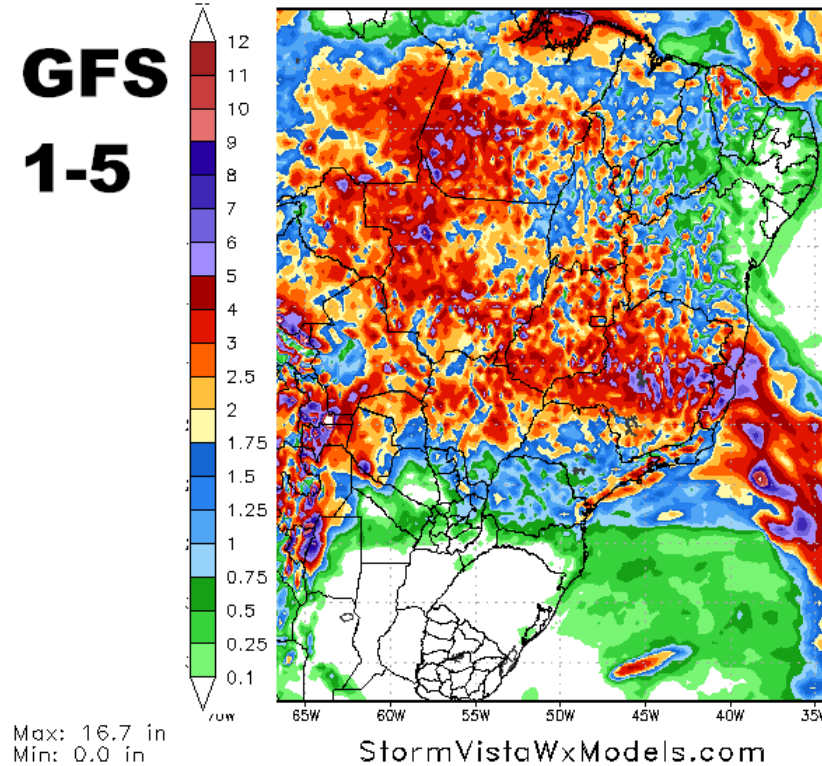


1-5 DAY BRAZIL

Again there is little to change from the Sunday afternoon models regarding the rainfall amounts for Brazil over the next 5 days. Both models show a concentration of heavy rains greater than 4 inches over central and northern Minas Gerais and widespread 1-4"/25-100mm over 70% of Mato Grosso Goias... MGDS... and 1-2" with 70% coverage over Tocantins... southwest Bahia ...Sao Paulo ...and Parana..

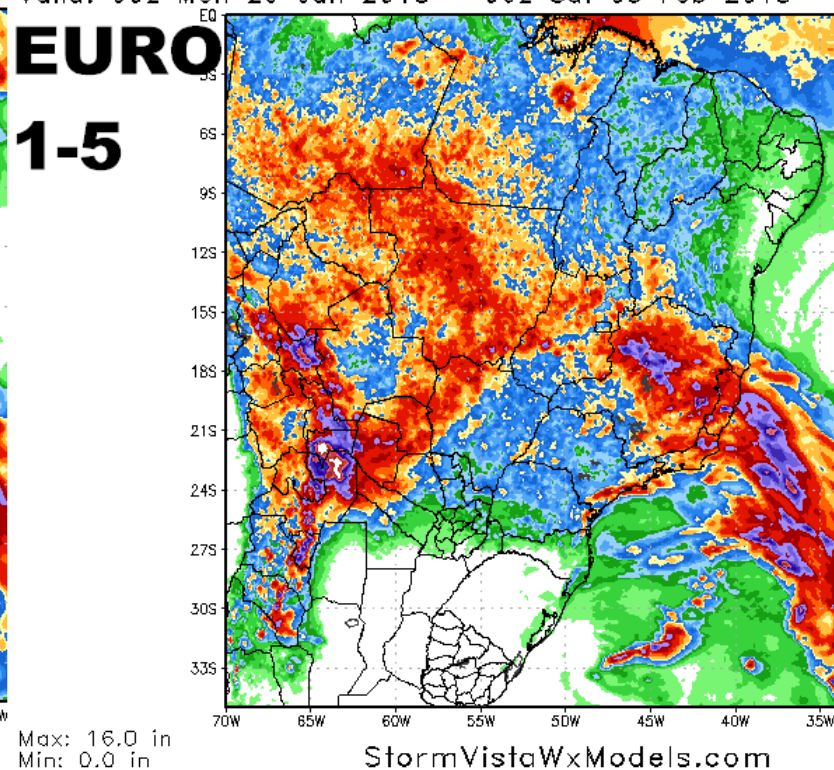
120 Hour Total Precipitation (in)
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GFS
1-5



120 Hour Total Precipitation (in)
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EURO
1-5

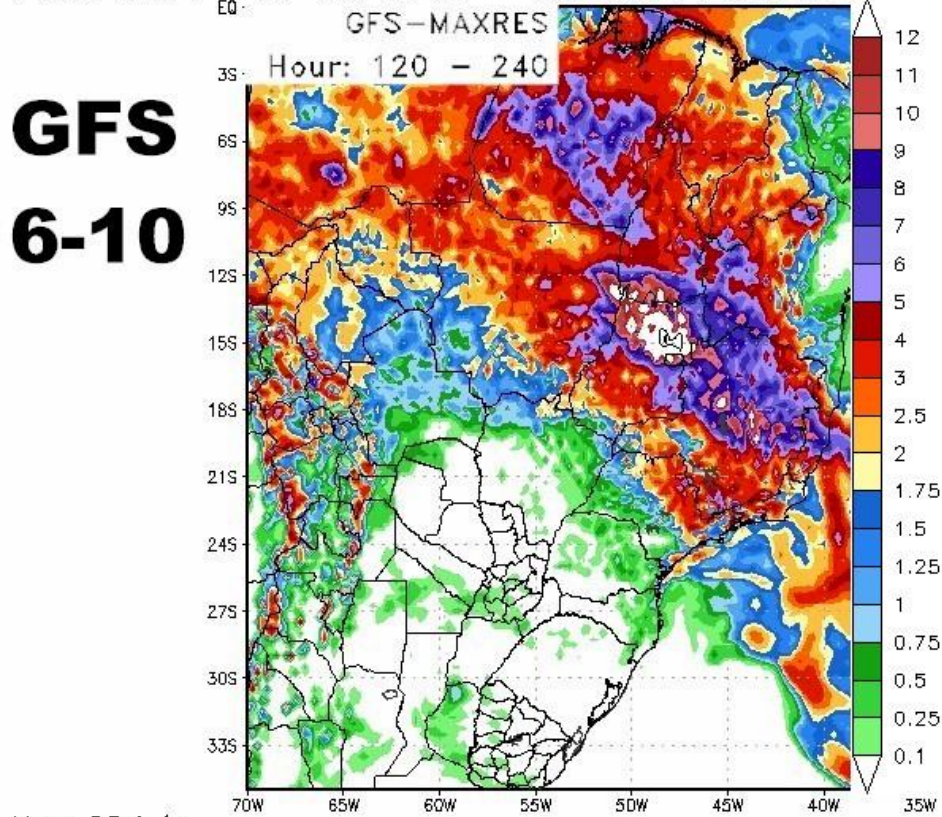


6-10D BRAZIL

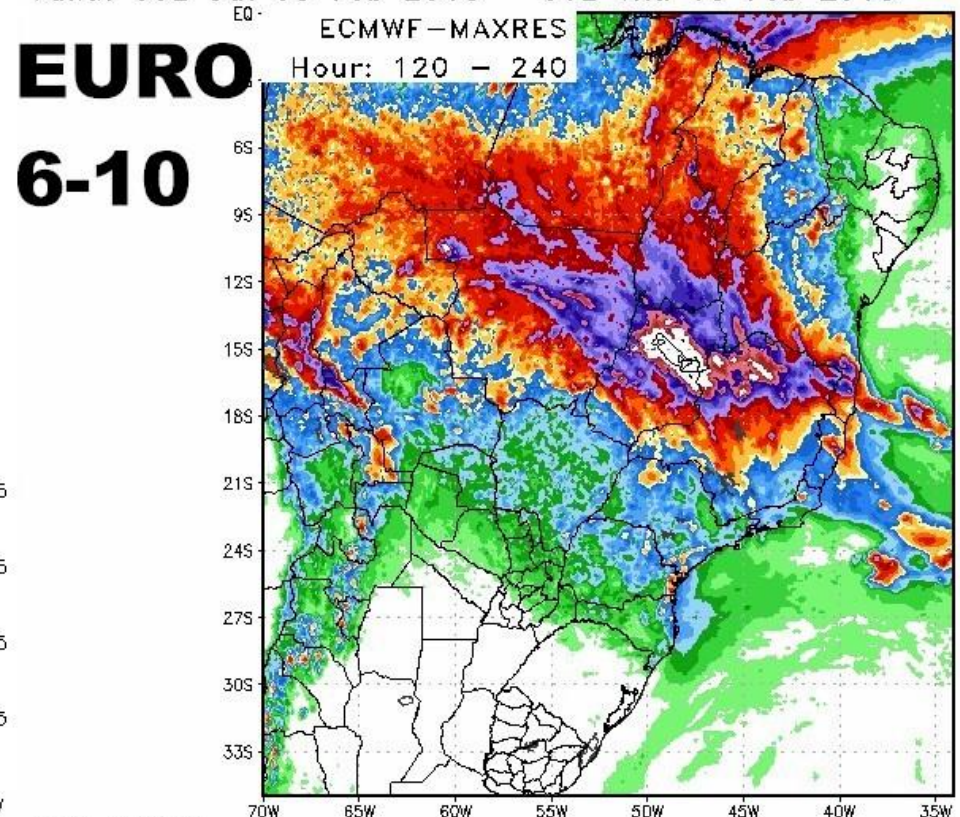
However the extreme rains show up on both models in the 6-10 DAY ... during the first week of February. Usually WE do not see the European model this extremely wet --as as the GFS model is. The fact that the European model is showing large areas of greater than 10"/ 250mm rains over Central Brazil is quite ominous and of major significance. Both models show a concentration of rainfall amounts between 9-12"/ 225-300mm covering the central and northern portions of Goias and northern Minas Gerais ...and 4-8"/100-200mm over eastern half of Mato Grosso.. southern Goias ...Tocatins ...southern Minas. Notice however that on both of these model images the rainfall

amounts drop off extremely quickly as soon as you move out of the heavy rain band. Most of MGDS.. Sao Paulo ..and all of southeastern Brazil sees very little rain in the 6-10 day.

120 Hour Total Precipitation (in)
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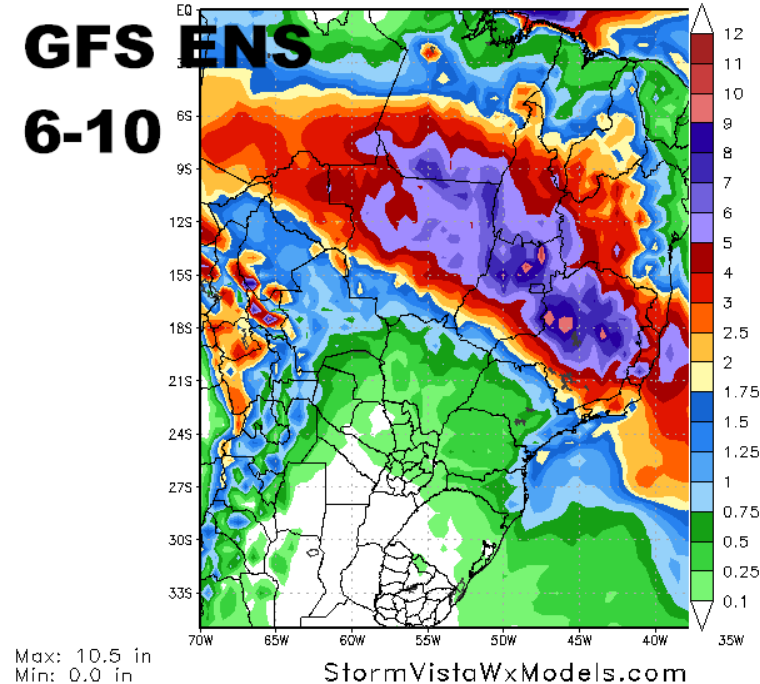
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This is strongly supported by the GFS and European model ensemble. Notice again that there is very little rain over southwestern and southeastern Brazil and all the rain is concentrated in a northwest to southeast orientation across central and east central Brazil. To see the ensemble mean of 9-10"/ 225-250mm rains on both the European and the GFS ensemble is quite ominous.

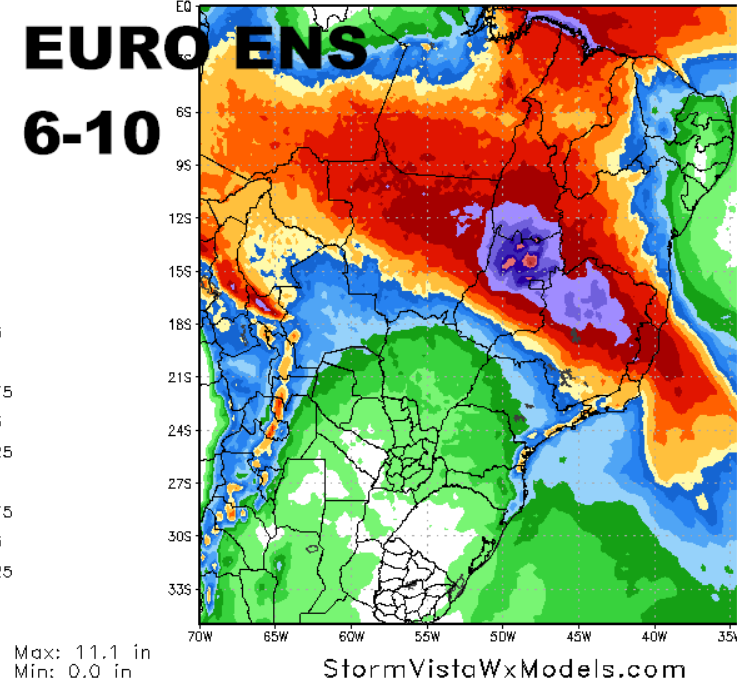
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GFS ENS
6-10



120 Hour Total Precipitation (in)
Valid: 00z Sat 03 Feb 2018 – 00z Thu 08 Feb 2018

EURO ENS
6-10

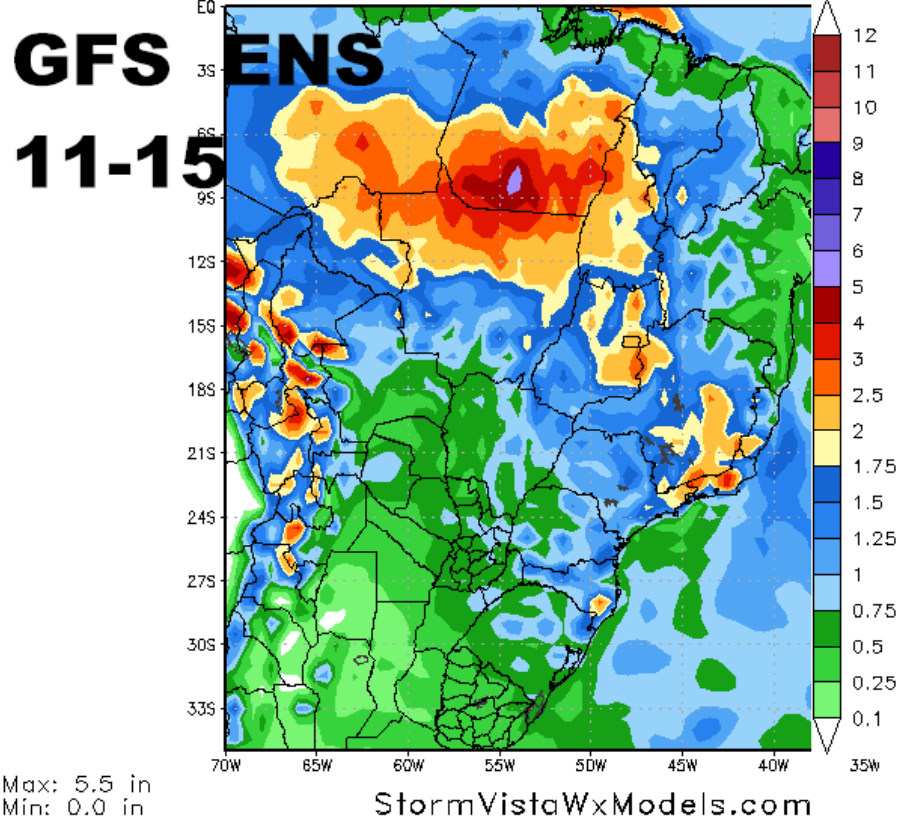


11-15 DAY BRAZIL

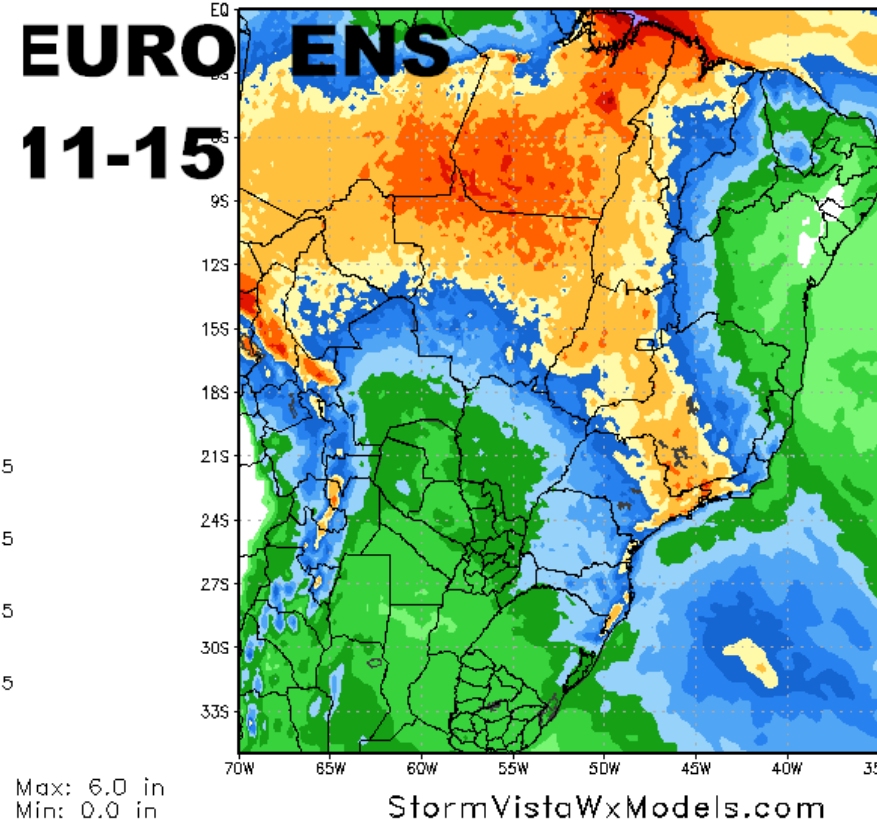
Finally in the 11 to 15 Day... both models show the extreme rainfall pattern breaking down. The rainfall pattern turns normal over most of western ...central ..and east central Brazil. This still significant rain with many areas of 1-3"/ 25-75mm but it is a significant decrease from

what the super heavy rains in the 6-10Day. Notice again however that most of southwestern and southeastern Brazil sees only moderate or light rains.

120 Hour Total Precipitation (in)
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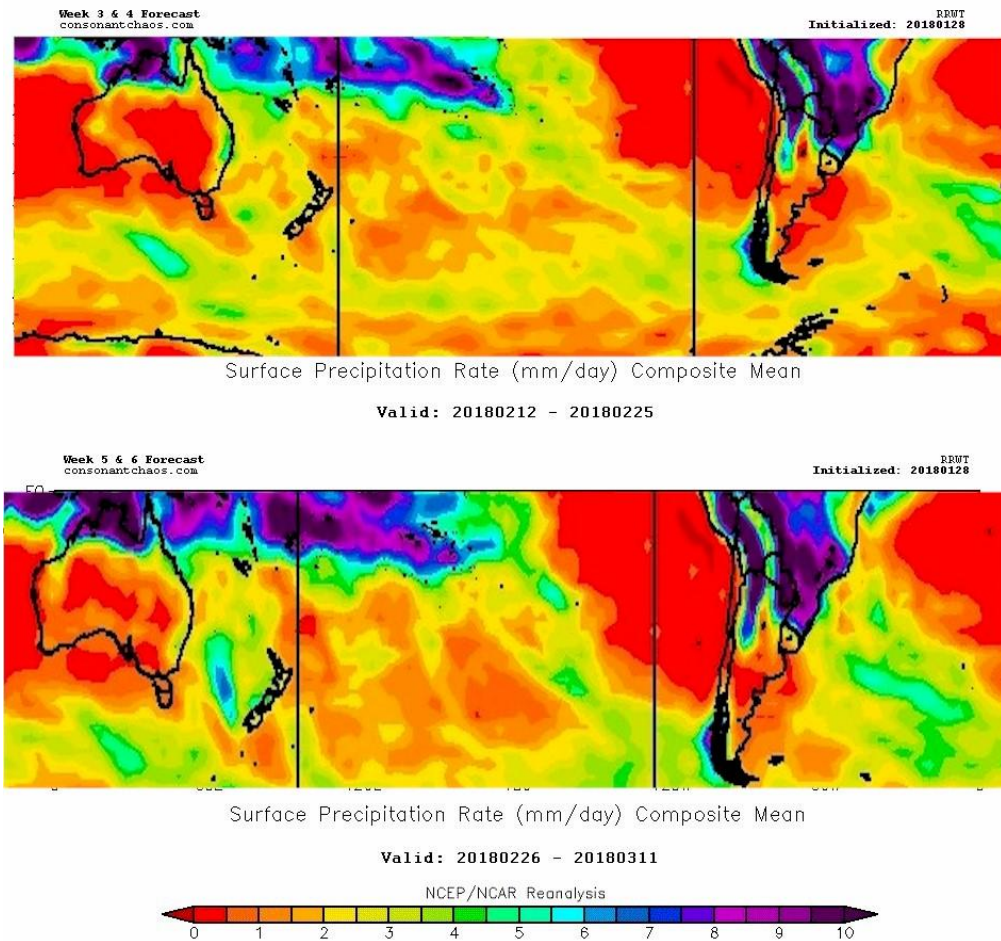
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WEEK 3-4-5-6 OUTLOOK RAINFALL AMOMALIES

Here we can take a look at the new RRWT - ROSSBY WAVE TRAIN extended model - again keep in mind that this is experimental but so far it's worked out pretty good over the past 6 months. As you can see this model continues that Argentina will remain generally drier than normal and some areas much drier than normal from late February into early March. To the north we can see that most of southeastern

and southwestern Brazil actually sees above normal rainfall. This strongly implies a continuation of the current pattern over South America and especially over Brazil and Argentina.



The week 3 and week 4 CFS Model (not shown) also shows more Below and much below Normal rainfall for m central and northern Argentina into southeast Brazil.

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