

**US HRWW
GRAIN WEATHER
ISSUES**

**as of FRIDAY
28 DECEMBER 2017**

**S. AMERICA / AUS TO
FOLLOW**



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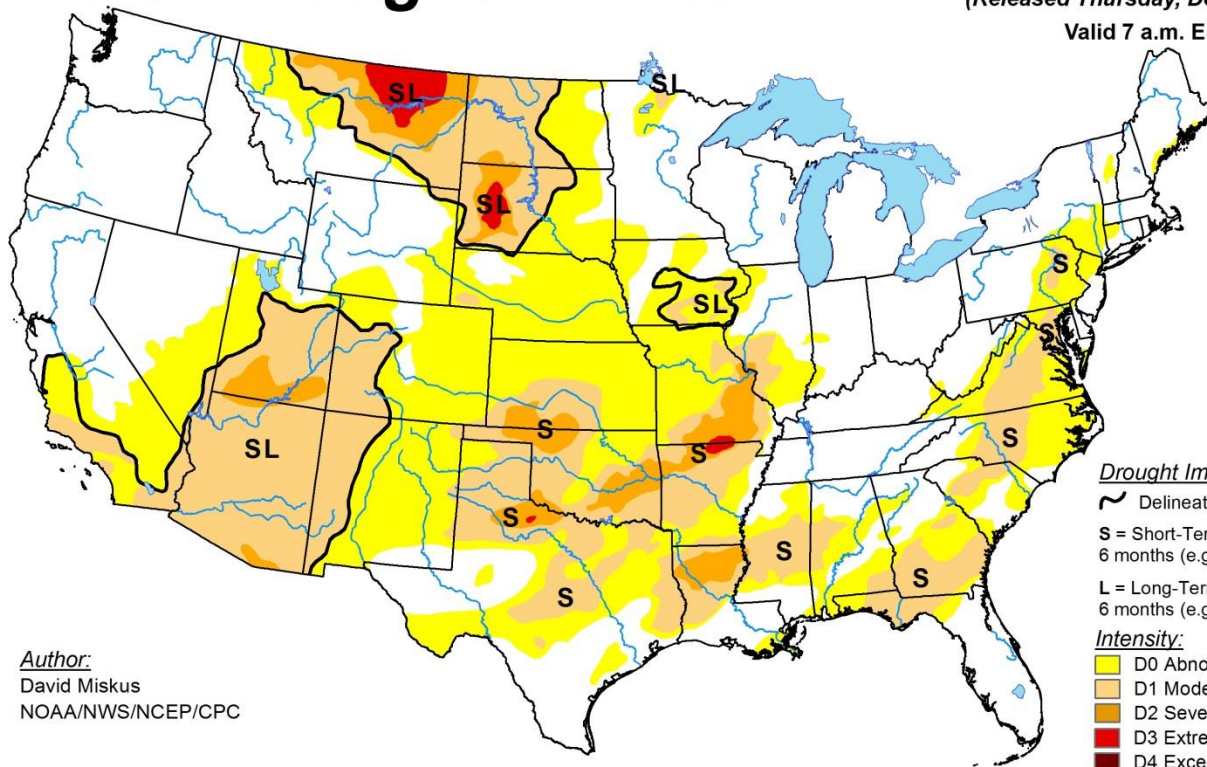
wxrisk@gmail.com

DROUGHT CONDITIONS OVER MOST OF PLAINS / DELTA WORSENING WEEKLY

U.S. Drought Monitor


December 26, 2017
(Released Thursday, Dec. 28, 2017)

Valid 7 a.m. EST








Author:
David Miskus
NOAA/NWS/NCEP/CPC

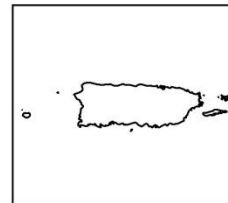
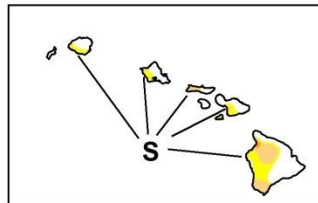
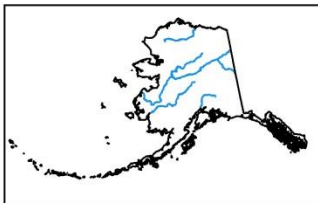
Drought Impact Types:

-  Delineates dominant impacts
- S** = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L** = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

Intensity:

-  D0 Abnormally Dry
-  D1 Moderate Drought
-  D2 Severe Drought
-  D3 Extreme Drought
-  D4 Exceptional Drought

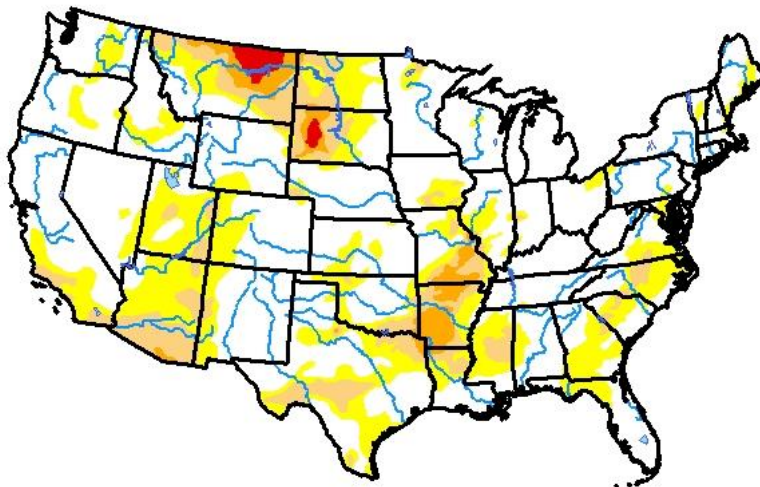
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.



<http://droughtmonitor.unl.edu/>

US DROUGHT CONDITIONS SINCE NOVEMBER 14

U.S. Drought Monitor Continental U.S. (CONUS)



November 14, 2017
(Released Thursday, Nov. 16, 2017)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	64.97	35.03	13.06	3.52	0.75	0.00
Last Week 11-07-2017	67.19	32.81	11.96	2.90	0.75	0.00
3 Months Ago 08-15-2017	71.95	28.05	11.31	5.33	2.45	0.70
Start of Calendar Year 01-03-2017	53.89	46.11	22.53	8.63	3.15	0.96
Start of Water Year 09-26-2017	63.07	36.93	13.81	4.99	2.36	0.87
One Year Ago 11-15-2016	48.01	51.99	30.13	14.44	6.40	2.36

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:

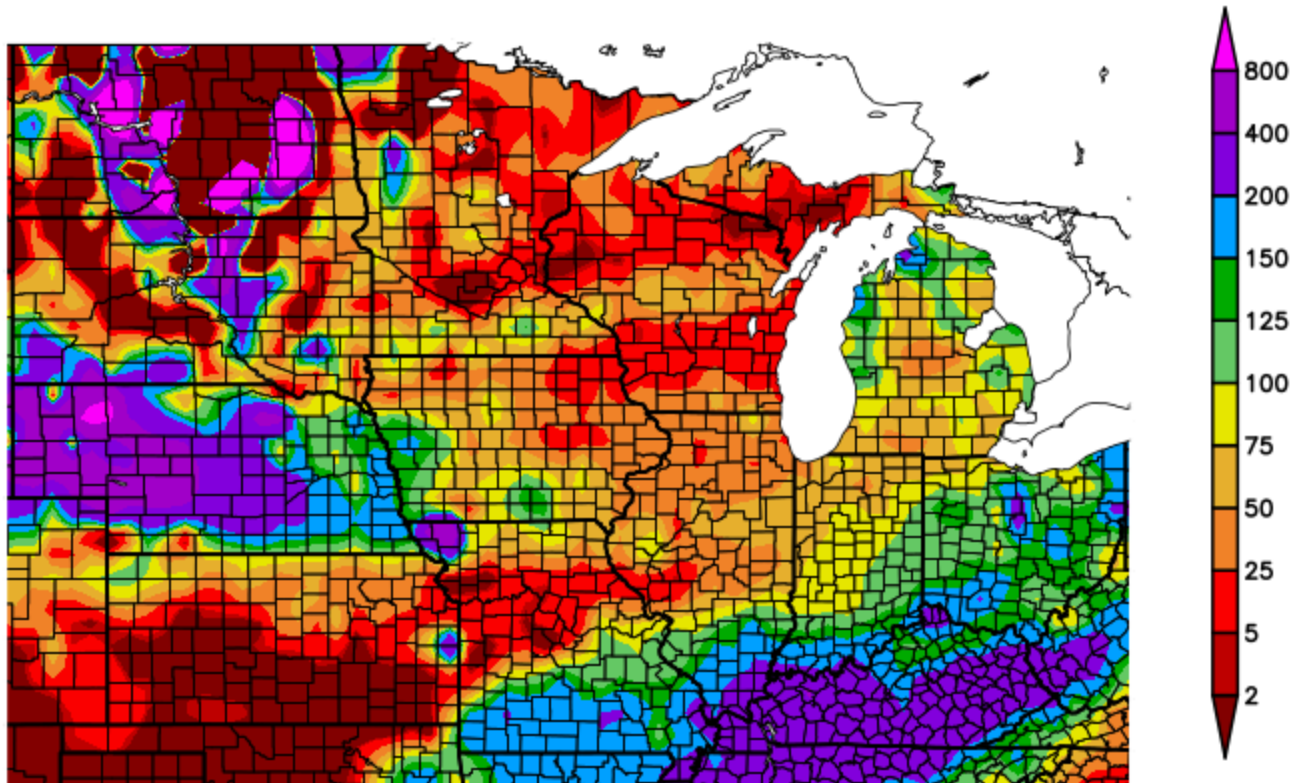
Richard Tinker
CPC/NOAA/NWS/NCEP



<http://droughtmonitor.unl.edu/>

US PRECIP & ANOMALIES LAST 7 DAYS

Percent of Normal Precipitation (%)
12/22/2017 - 12/28/2017

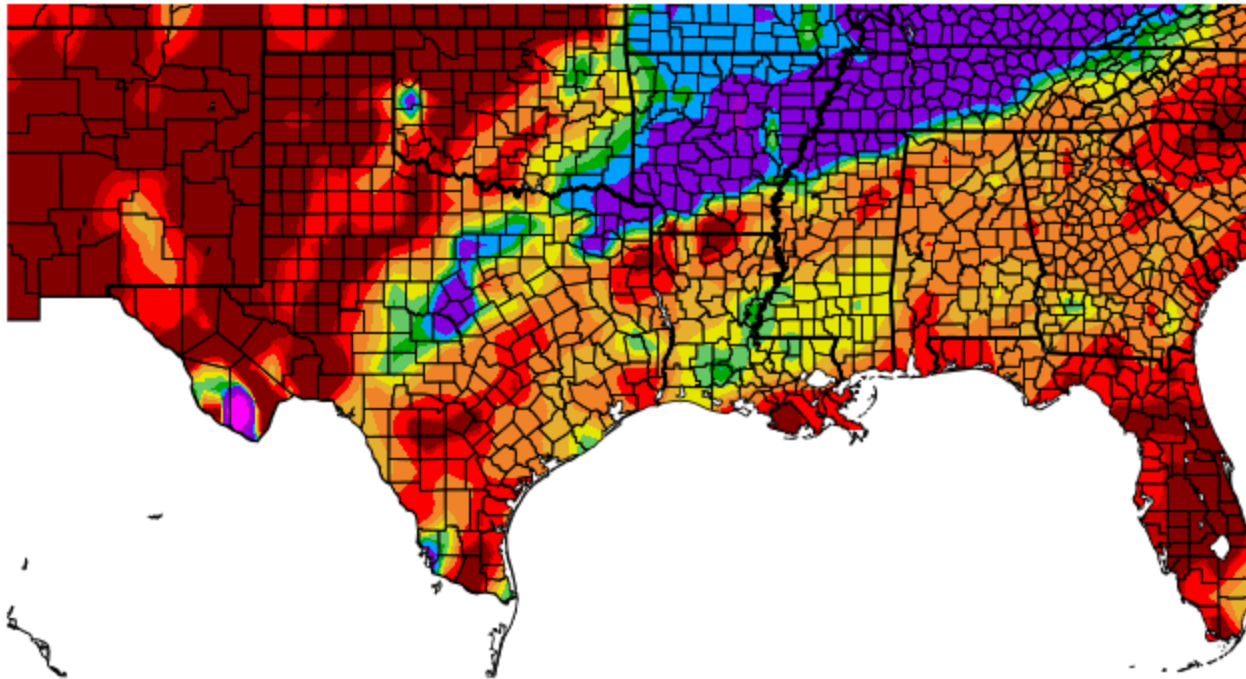


Generated 12/29/2017 at HPRCC using provisional data.

NOAA Regional Climate Centers

US PRECIP & ANOMALIES LAST 7 DAYS

Percent of Normal Precipitation (%)
12/22/2017 - 12/28/2017

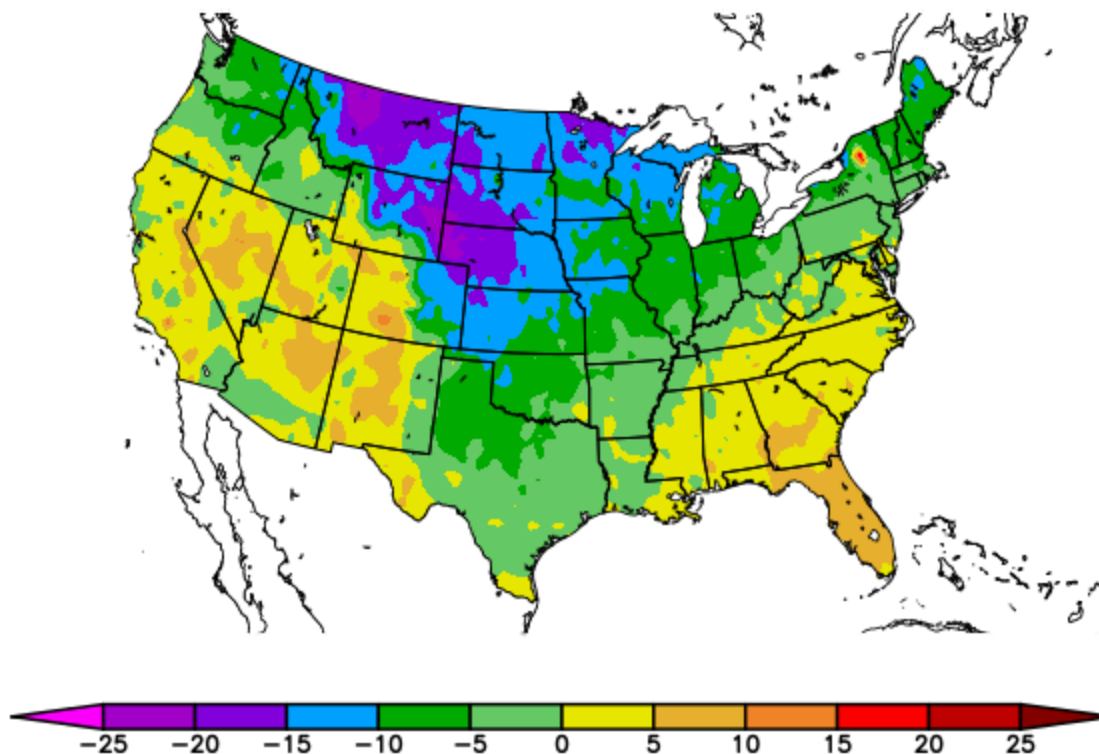


Generated 12/29/2017 at HPRCC using provisional data.

NOAA Regional Climate Centers

TEMPS FALL PAST 7 DAYS—

Departure from Normal Temperature (F)
12/22/2017 – 12/28/2017

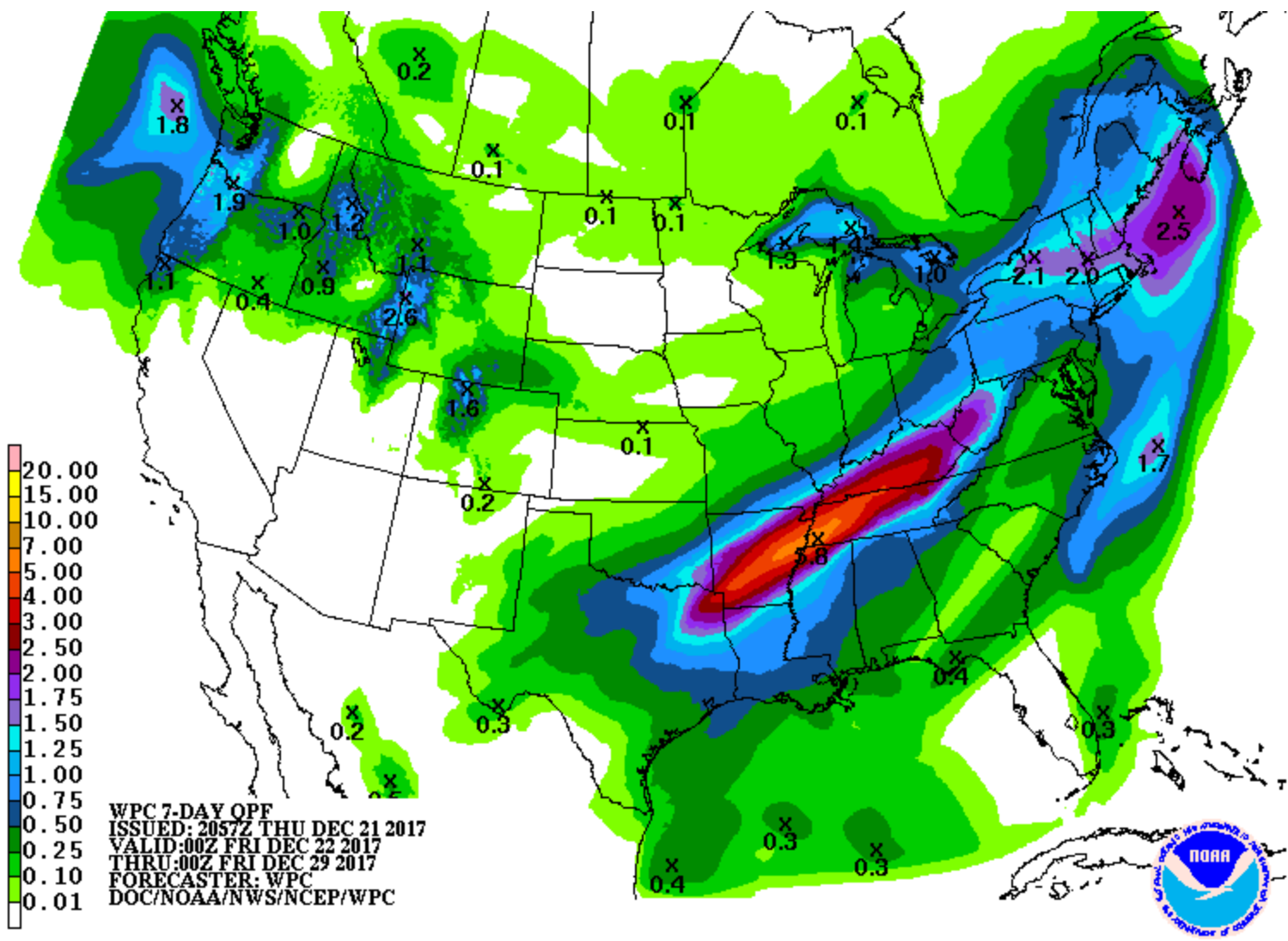


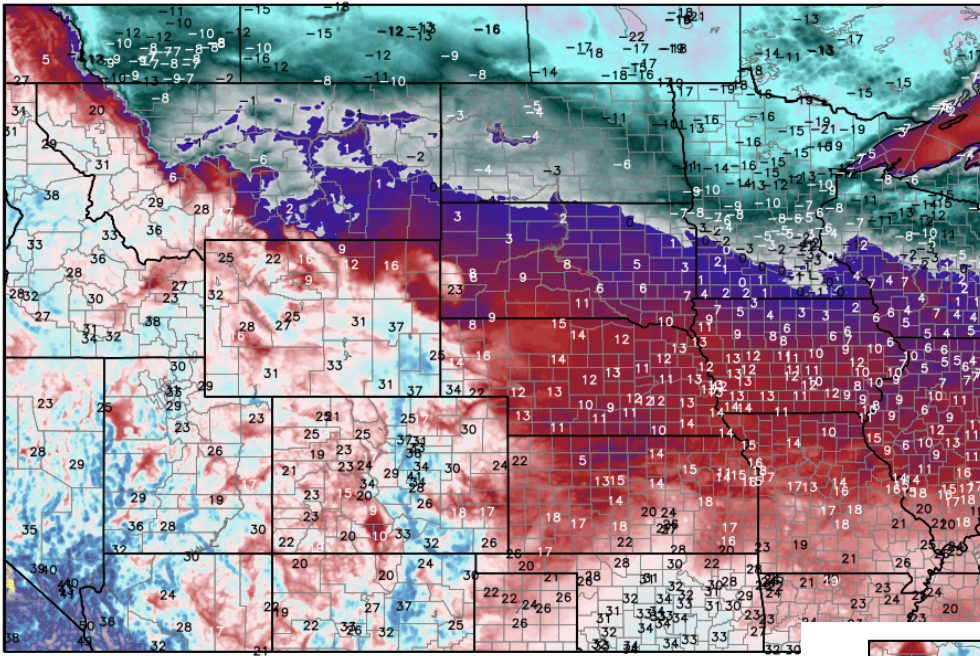
Generated 12/29/2017 at HPRCC using provisional data.

NOAA Regional Climate Centers

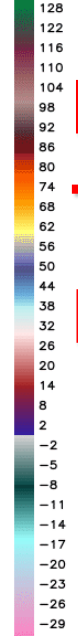
NWS OFFICIAL RAINFALL NEXT 7 DAYS

Not much help



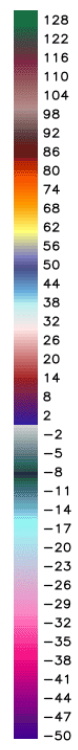
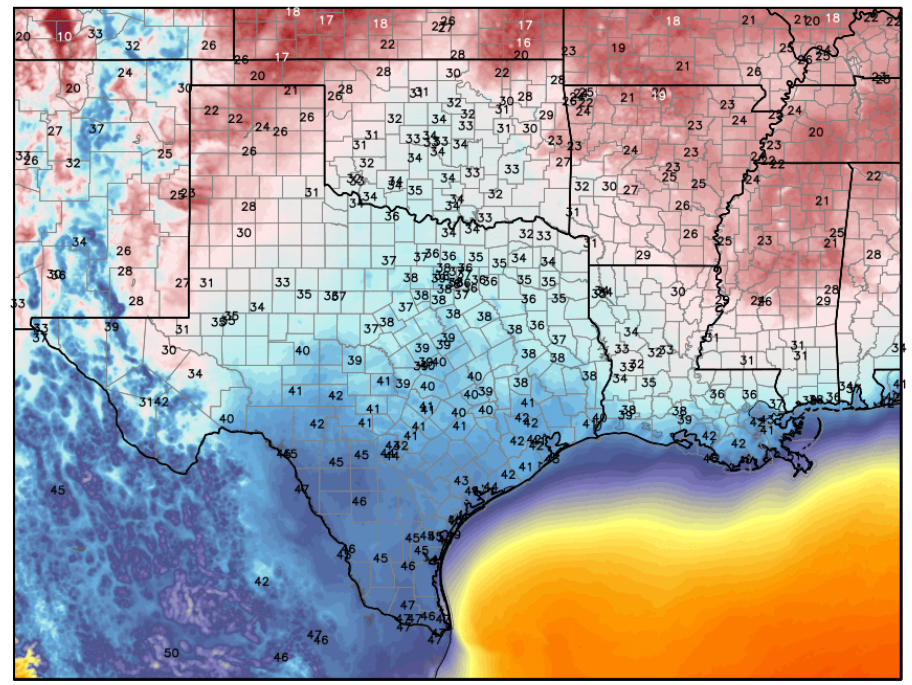


MIN TEMPS DEC 29



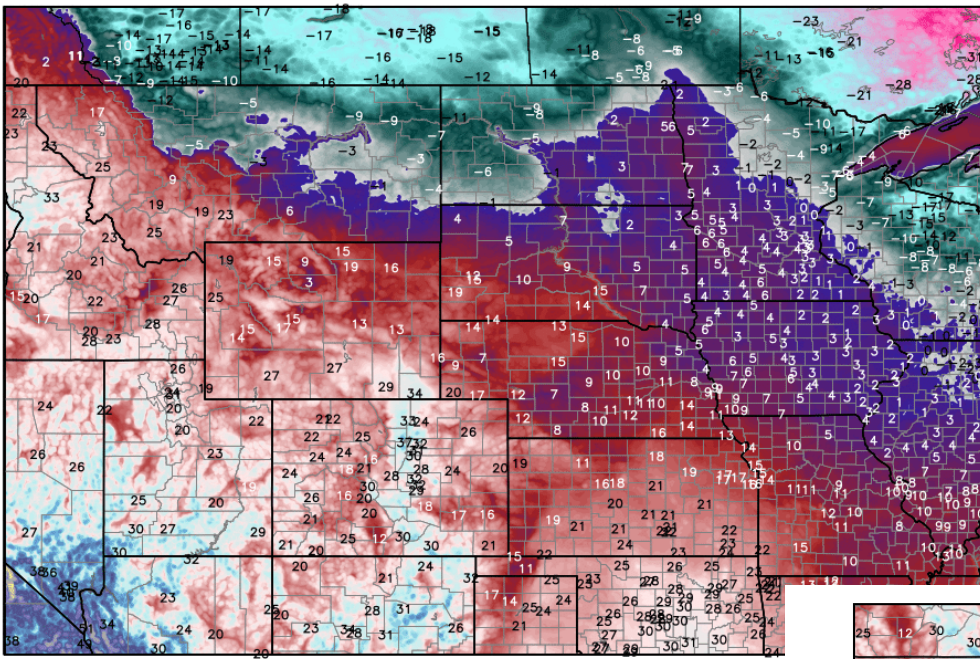
Colorado: Max: 46.2°F Avg: 26.5°F Min: 7.5°F
 Iowa: Max: 15.3°F Avg: 8.9°F Min: -0.6°F
 Minnesota: Max: 6.5°F Avg: -9.4°F Min: -22.1°F
 Nebraska: Max: 36.6°F Avg: 13.7°F Min: 5.2°F
 Montana: Max: 38.7°F Avg: 7.3°F Min: -15.6°F
 Kansas: Max: 30.2°F Avg: 16.9°F Min: 2.1°F
 North Dakota: Max: 4.1°F Avg: -5.8°F Min: -18.3°F

South Dakota: Max: 30.3°F /
 Wyoming: Max: 43.6°F /
 Missouri: Max: 28.9°F /
 NCEP RTMA (2.5km)
 2-meter Temp [°F] 12
 WeatherBELL Models



Arkansas: Min: 15.8°F Max: 33.9°F Avg: 25.6°F
 Louisiana: Min: 24.8°F Max: 53.6°F Avg: 35.5°F
 Oklahoma: Min: 14.2°F Max: 37.2°F Avg: 30.2°F
 Texas: Min: 15.7°F Max: 56.0°F Avg: 37.1°F

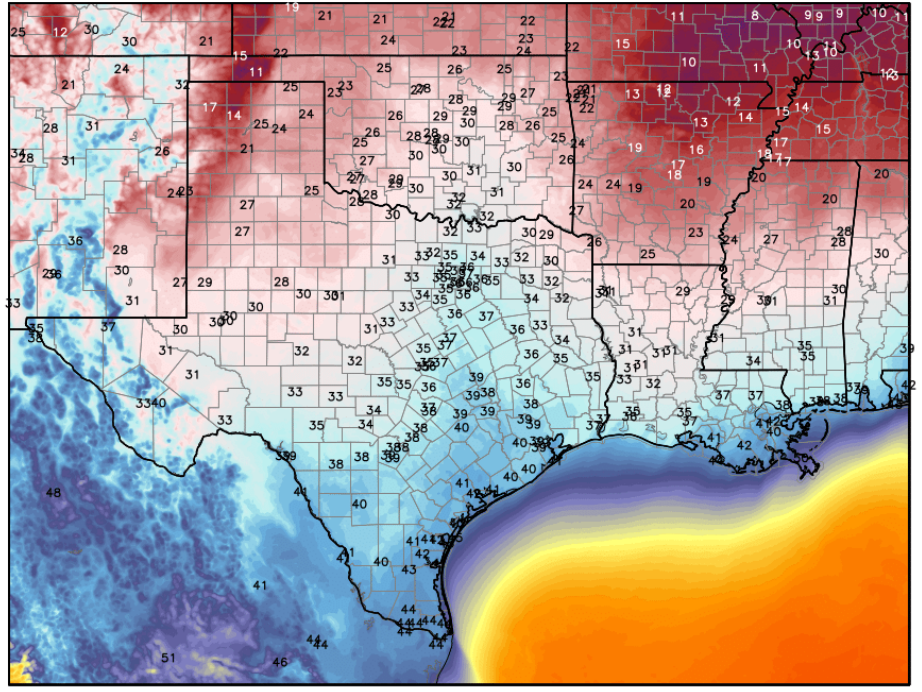
NCEP RTMA (2.5km)
 2-meter Temp [°F] 12Z29DEC2017
 WeatherBELL Models



MIN TEMPS DEC 28

Colorado: Max: 41.6°F Avg: 24.0°F Min: 8.6°F
 Iowa: Max: 11.4°F Avg: 4.0°F Min: -1.1°F
 Minnesota: Max: 7.0°F Avg: -0.2°F Min: -24.7°F
 Nebraska: Max: 24.9°F Avg: 11.9°F Min: 2.1°F
 Montana: Max: 30.5°F Avg: 5.5°F Min: -16.5°F
 Kansas: Max: 25.7°F Avg: 18.6°F Min: 6.8°F
 North Dakota: Max: 8.9°F Avg: -2.9°F Min: -17.8°F

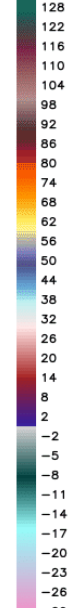
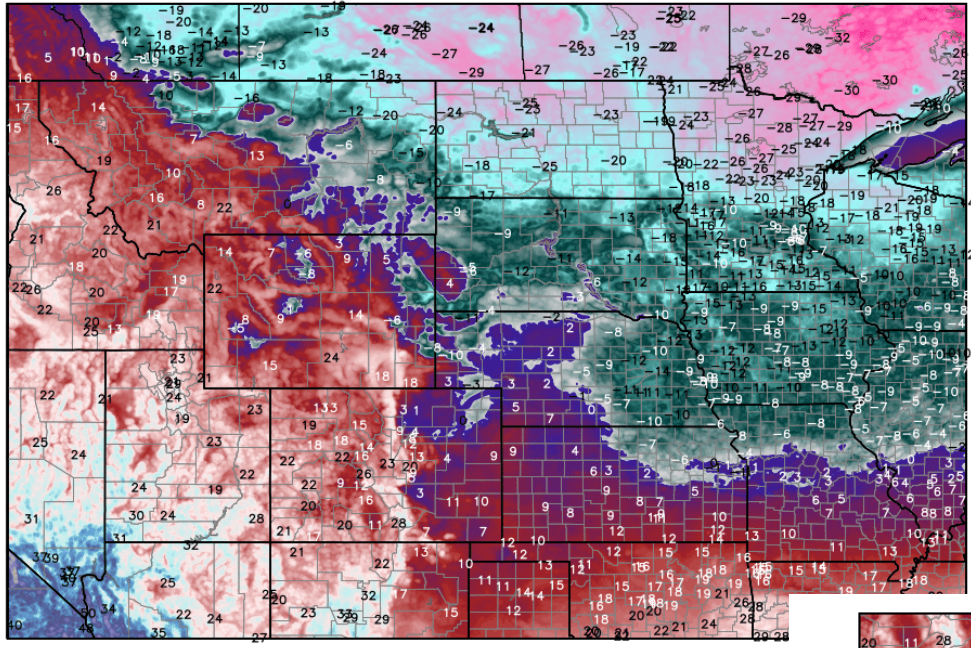
South Dakota: Max: 21.2°F
 Wyoming: Max: 34.4°F
 Missouri: Max: 22.8°F
 NCEP RTMA (2.5km)
 2-meter Temp [°F] 1
 WeatherBELL Models



Arkansas: Min: 8.8°F Max: 28.1°F Avg: 19.2°F
 Louisiana: Min: 25.2°F Max: 53.3°F Avg: 33.9°F
 Oklahoma: Min: 6.1°F Max: 35.9°F Avg: 26.8°F
 Texas: Min: 7.4°F Max: 51.8°F Avg: 33.2°F

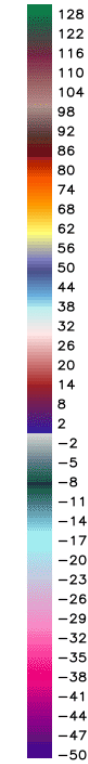
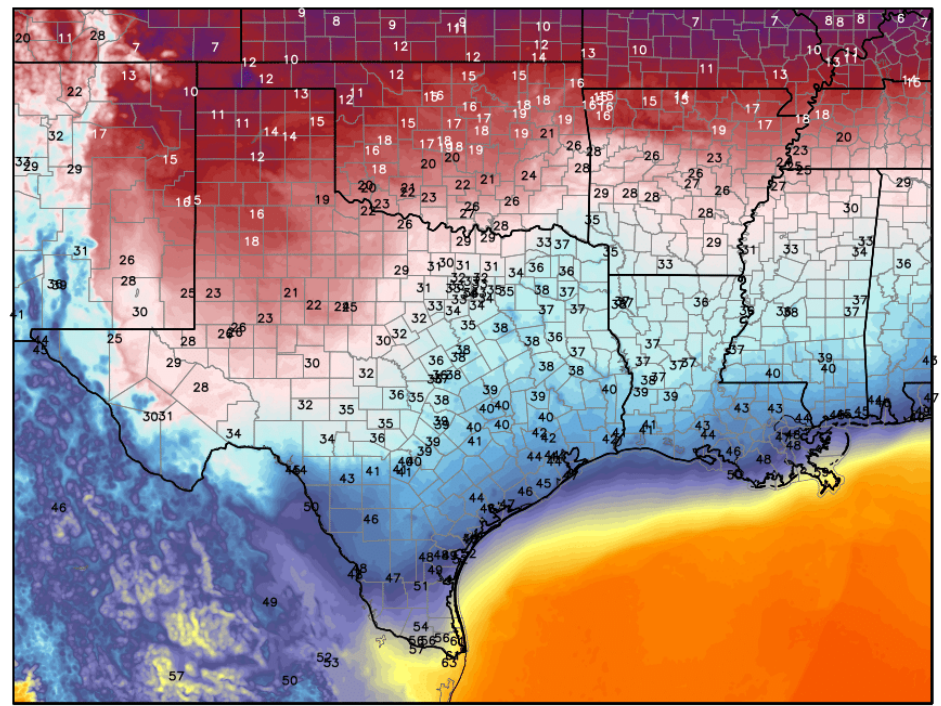
NCEP RTMA (2.5km)
 2-meter Temp [°F] 12Z28DEC2017
 WeatherBELL Models

MIN TEMPS DEC 27



Colorado Max: 36.8°F Avg: 14.5°F Min: -5.8°F
 Iowa Max: -2.9°F Avg: -10.3°F Min: -19.1°F
 Minnesota Max: -3.8°F Avg: -19.2°F Min: -31.9°F
 Nebraska Max: 17.5°F Avg: -3.4°F Min: -15.1°F
 Montana Max: 26.1°F Avg: 3.2°F Min: -30.1°F
 Kansas Max: 15.4°F Avg: 4.9°F Min: -9.6°F
 North Dakota Max: -4.2°F Avg: -19.9°F Min: -30.1°F

South Dakota Max: 13.6°F /
 Wyoming Max: 31.6°F /
 Missouri Max: 19.4°F /
 NCEP RTMA (2.5km)
 2-meter Temp [°F] 12
 WeatherBELL Models



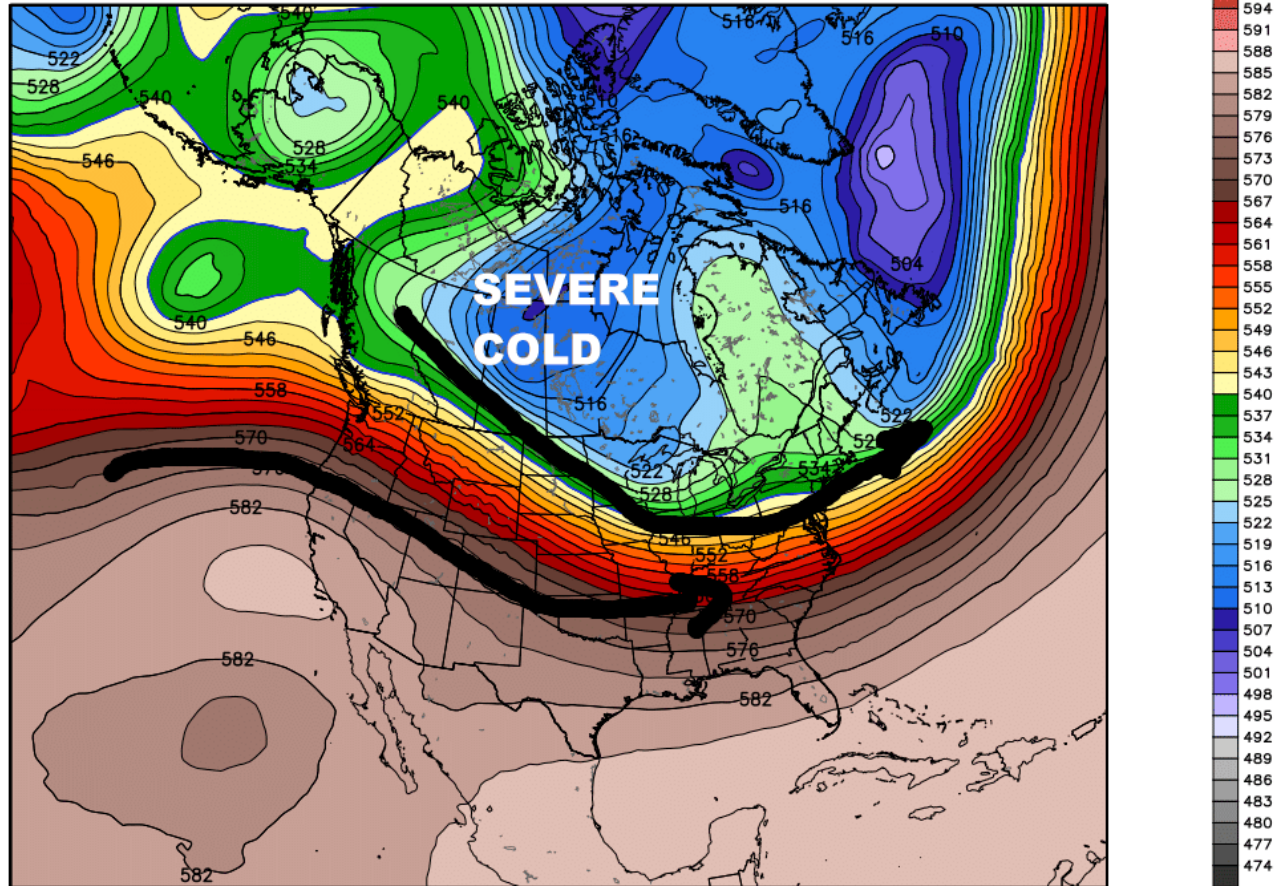
Arkansas Min: 11.8°F Max: 37.6°F Avg: 24.4°F
 Louisiana Min: 32.7°F Max: 63.8°F Avg: 40.5°F
 Oklahoma Min: 2.7°F Max: 35.8°F Avg: 18.7°F
 Texas Min: 3.9°F Max: 64.3°F Avg: 32.8°F

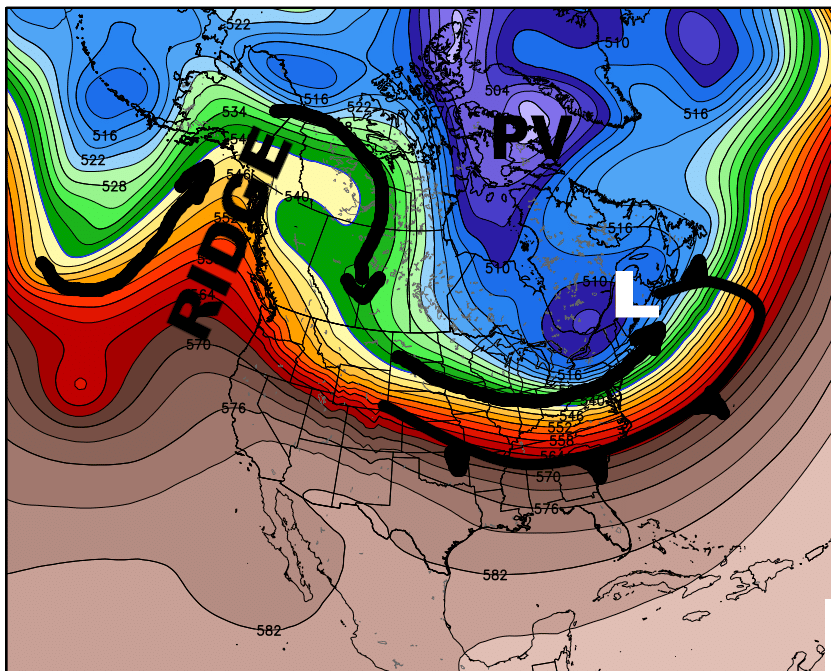
NCEP RTMA (2.5km)
 2-meter Temp [°F] 12Z27DEC2017
 WeatherBELL Models

CURRENT UPPER AIR PATTERN.. Here coems next blast of arctic air

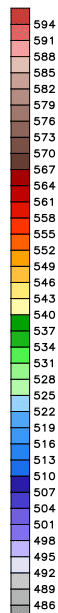
ECMWF EPS Ensemble Mean 500 hPa Geopotential Height [dm]
INIT: 00Z29DEC2017 fx: [000] hr --> Fri 00Z29DEC2017

Min|Max: 4844.8 | 5896.1 m



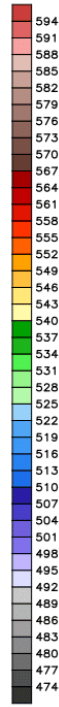
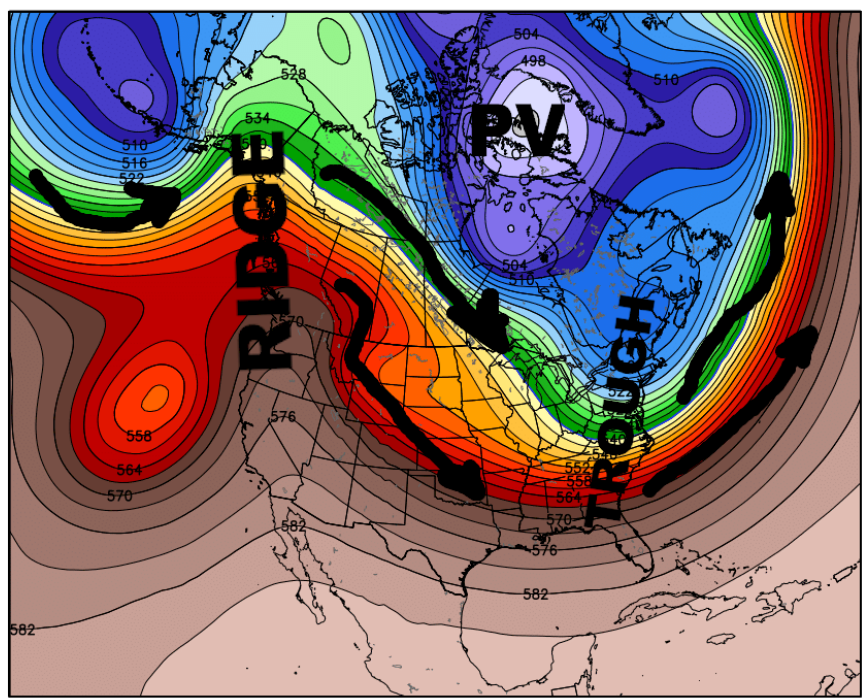


**DEC 31 NEXT
BLAST SWEEPS
IN**



ECMWF EPS Ensemble Mean 500 hPa Geopotential Height [dm]
INIT: 00Z29DEC2017 fx: [096] hr --> Tue 00Z02JAN2018

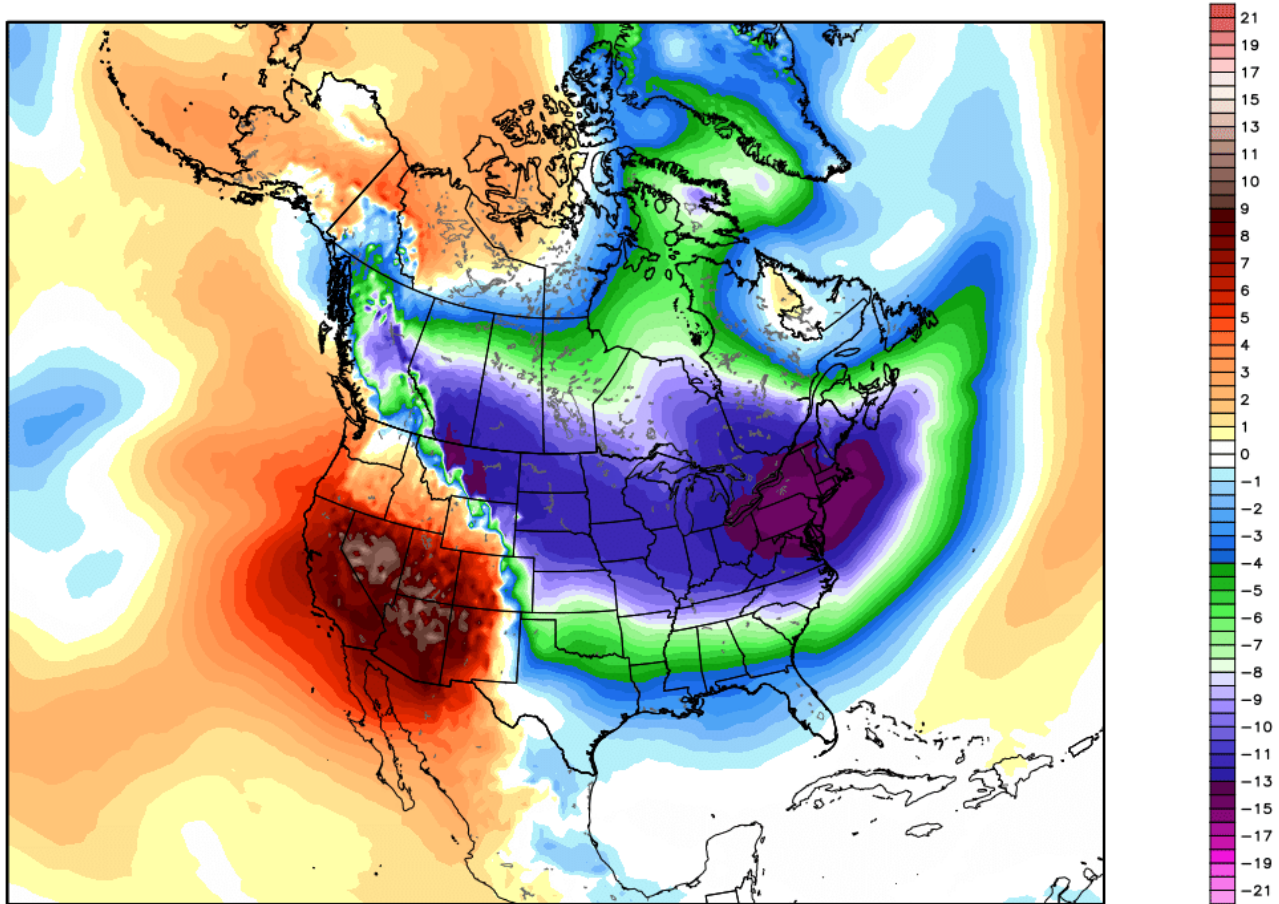
**JAN 2 ARCTIC
AIR OVER
EAST OF MISS
RIVER**

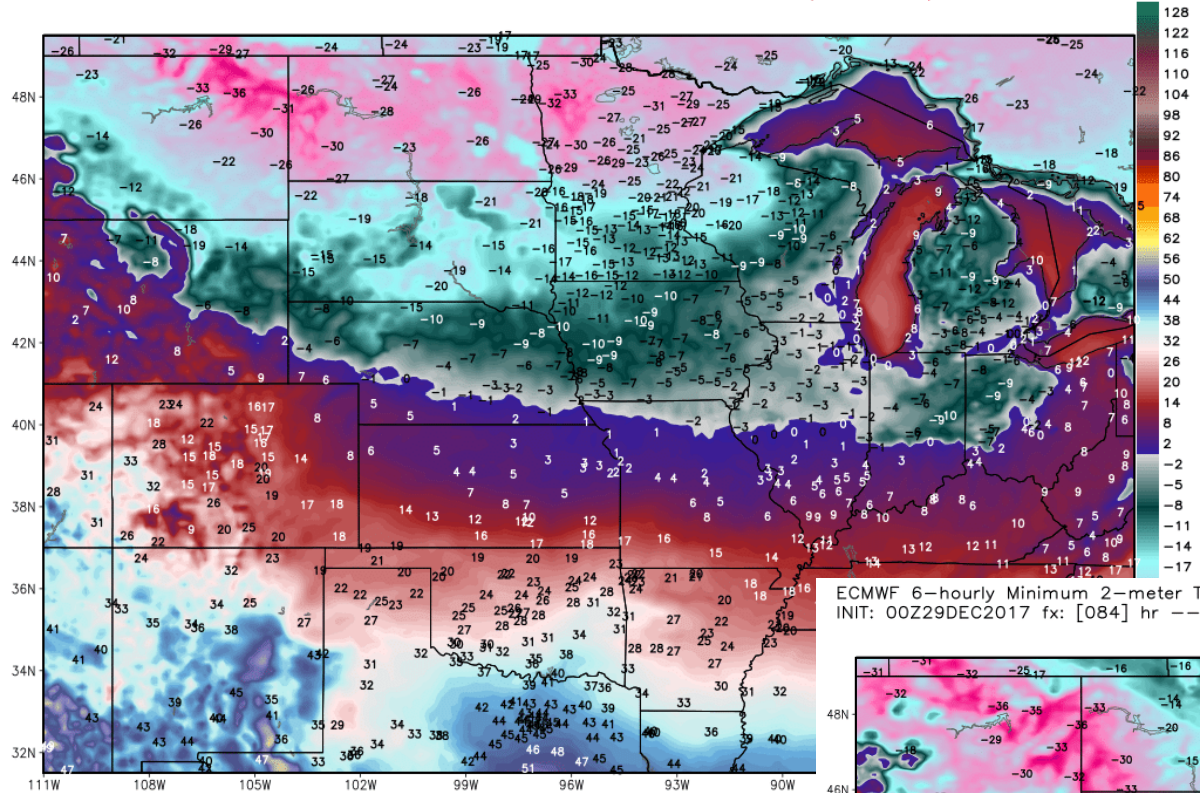


850mb TEMP ANOMALIES NEXT 5 DAYS

...WOW... -9 to -15c

ECMWF EPS Ensemble Mean 850 hPa Temperature Anomaly [°C] fx: [120] hr --> Wed 00Z03JAN2018
INIT: 00Z29DEC2017 5-day Mean between 00Z29DEC2017 & 00Z03JAN2018 Day 0 - Day 5 Min|Max -15.4° | 11.5°C

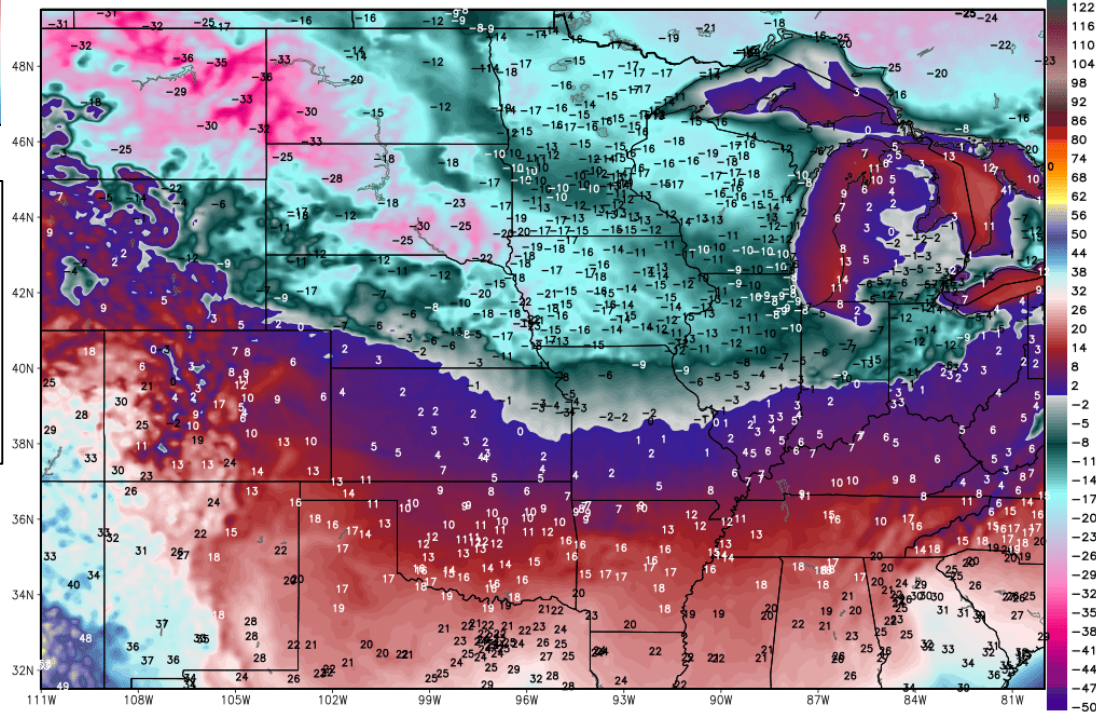




MIN TEMPS DEC 31

**NOTE HOW
SEVERE COLD
STAYS NORTH
OF I-70**

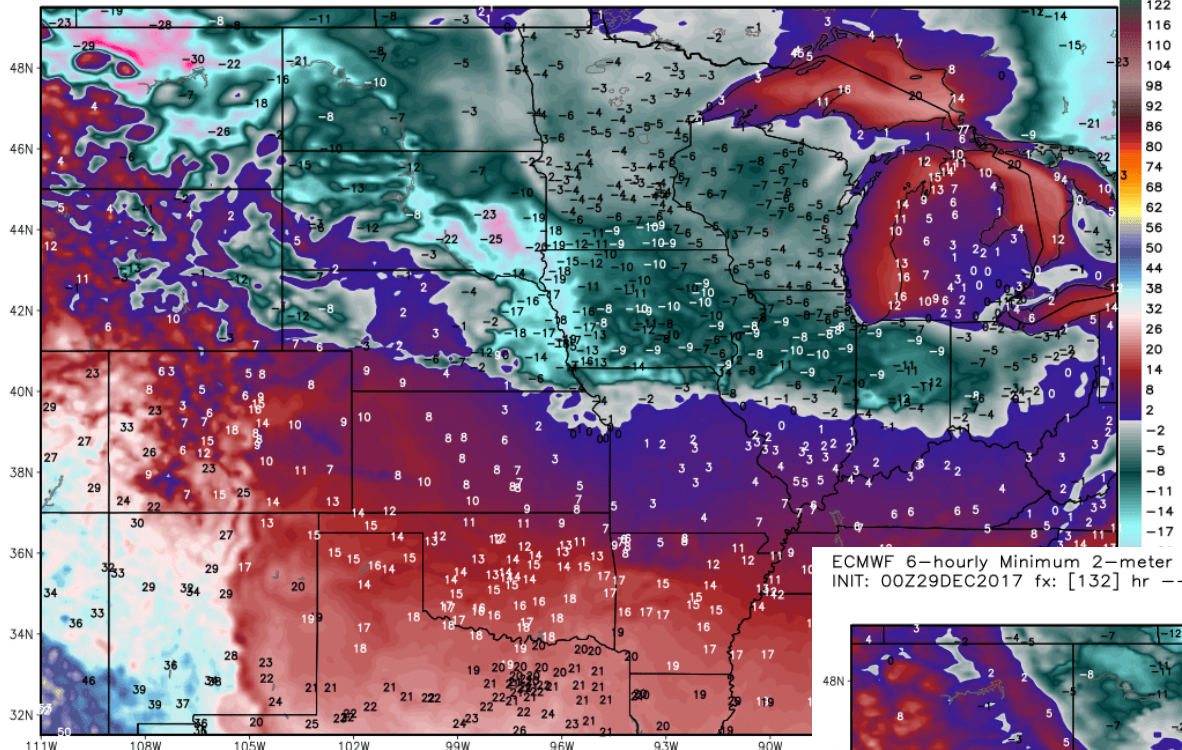
MIN TEMPS JAN 1



ECMWF 6-hourly Minimum 2-meter Temperature [°F]
INIT: 00Z29DEC2017 fx: [108] hr --> Tue 12Z02JAN2018

Domain Min|Max -40.3° | 58.5°F

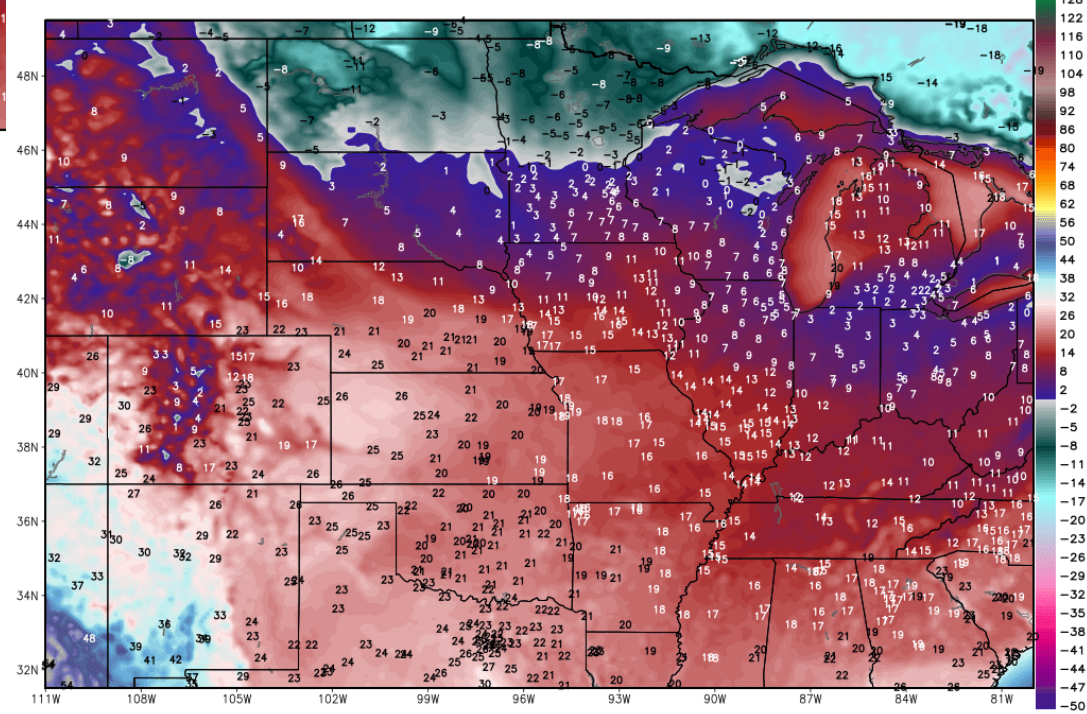
MIN TEMPS JAN 2



ECMWF 6-hourly Minimum 2-meter Temperature [°F]
INIT: 00Z29DEC2017 fx: [132] hr --> Wed 12Z03JAN2018

Domain Min|Max -26.0° | 57.0°F

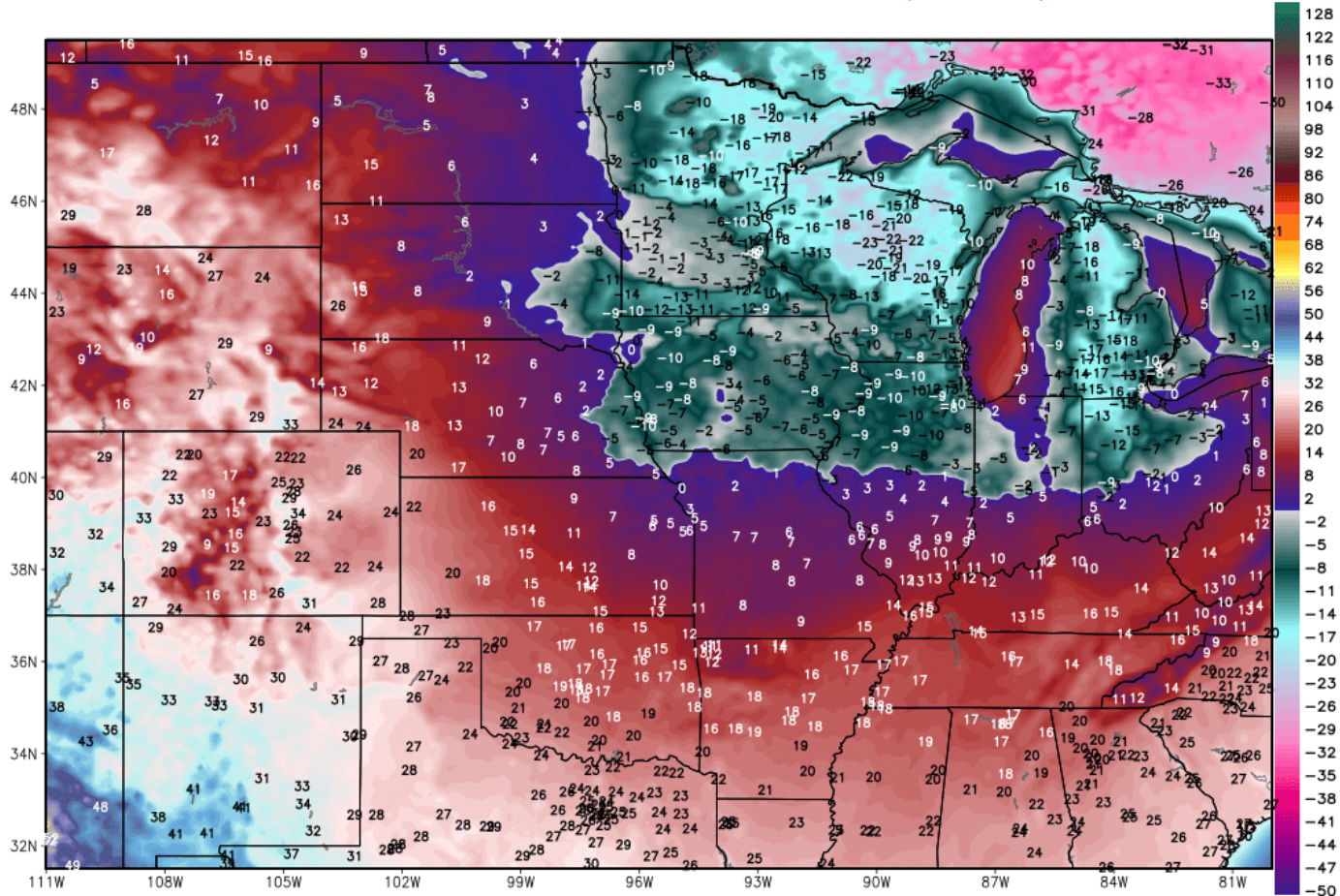
MIN TEMPS JAN 3

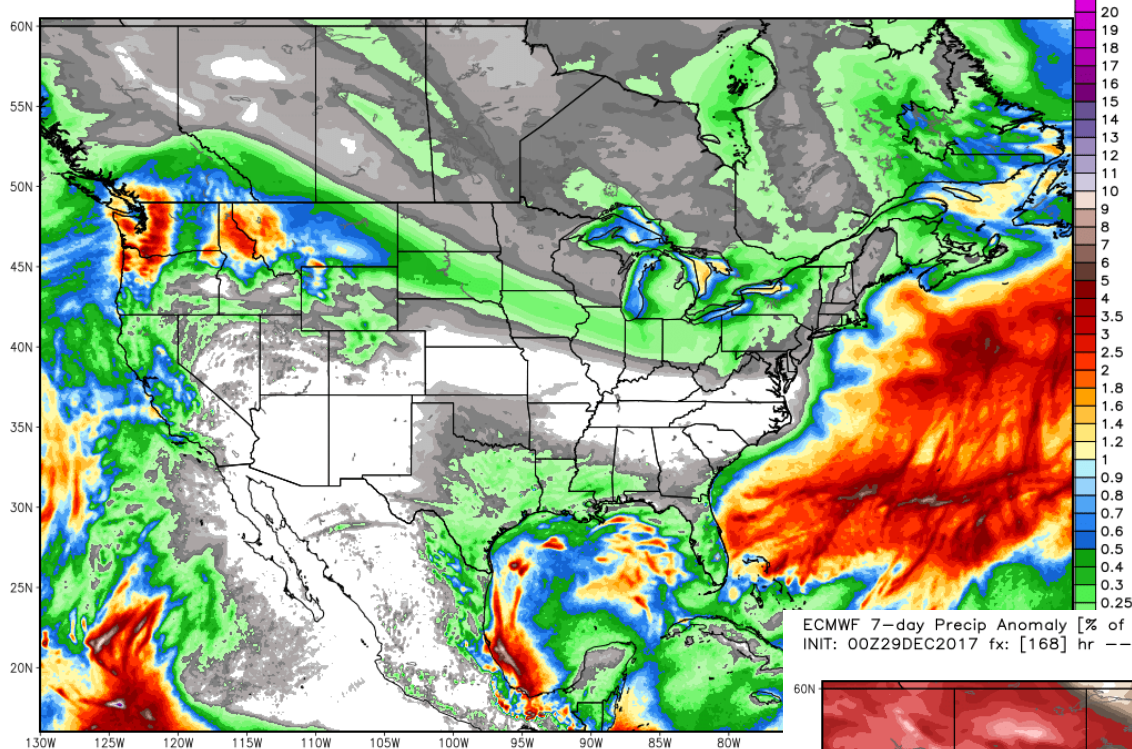


JAN 4 ARCTIC AIR SLIDES ... Into Midwest .. Temps begin to recover over HRWW areas

ECMWF 6-hourly Minimum 2-meter Temperature [°F]
INIT: 00Z29DEC2017 fx: [156] hr --> Thu 12Z04JAN2018

Domain Min|Max -37.0° | 58.3°F

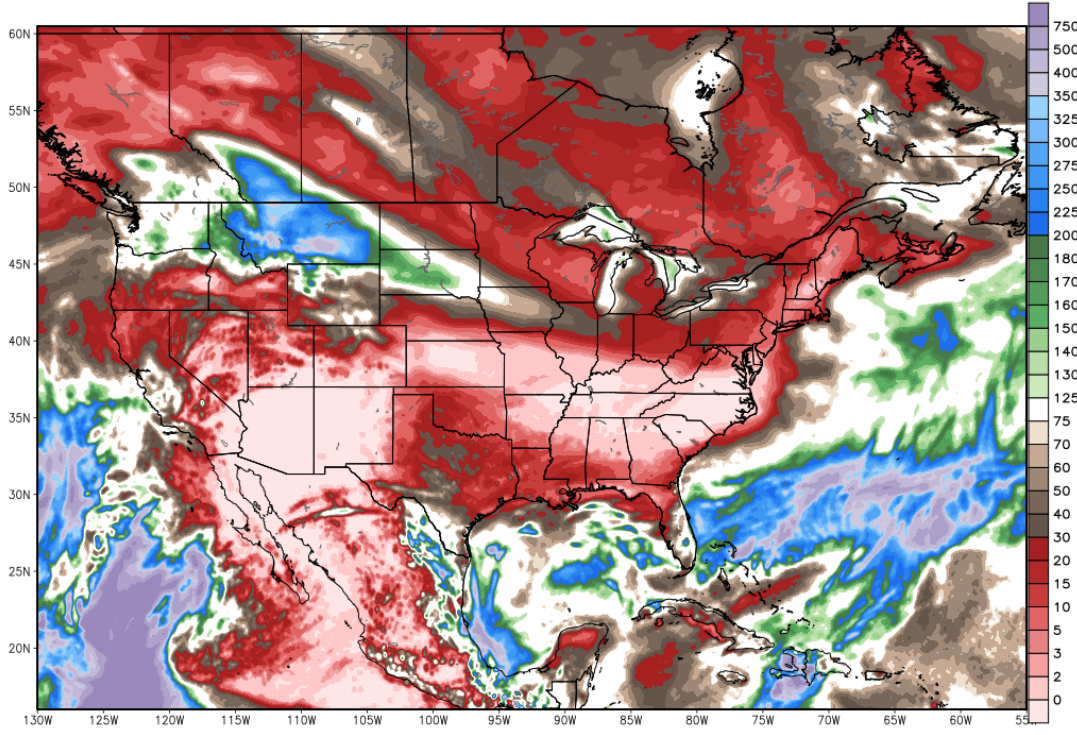




EURO RAINFALL NEXT 7 DAYS-

ECMWF 7-day Precip Anomaly [% of normal] between 00Z29DEC2017 -- 00Z05JAN2018
INIT: 00Z29DEC2017 fx: [168] hr --> Fri 00Z05JAN2018

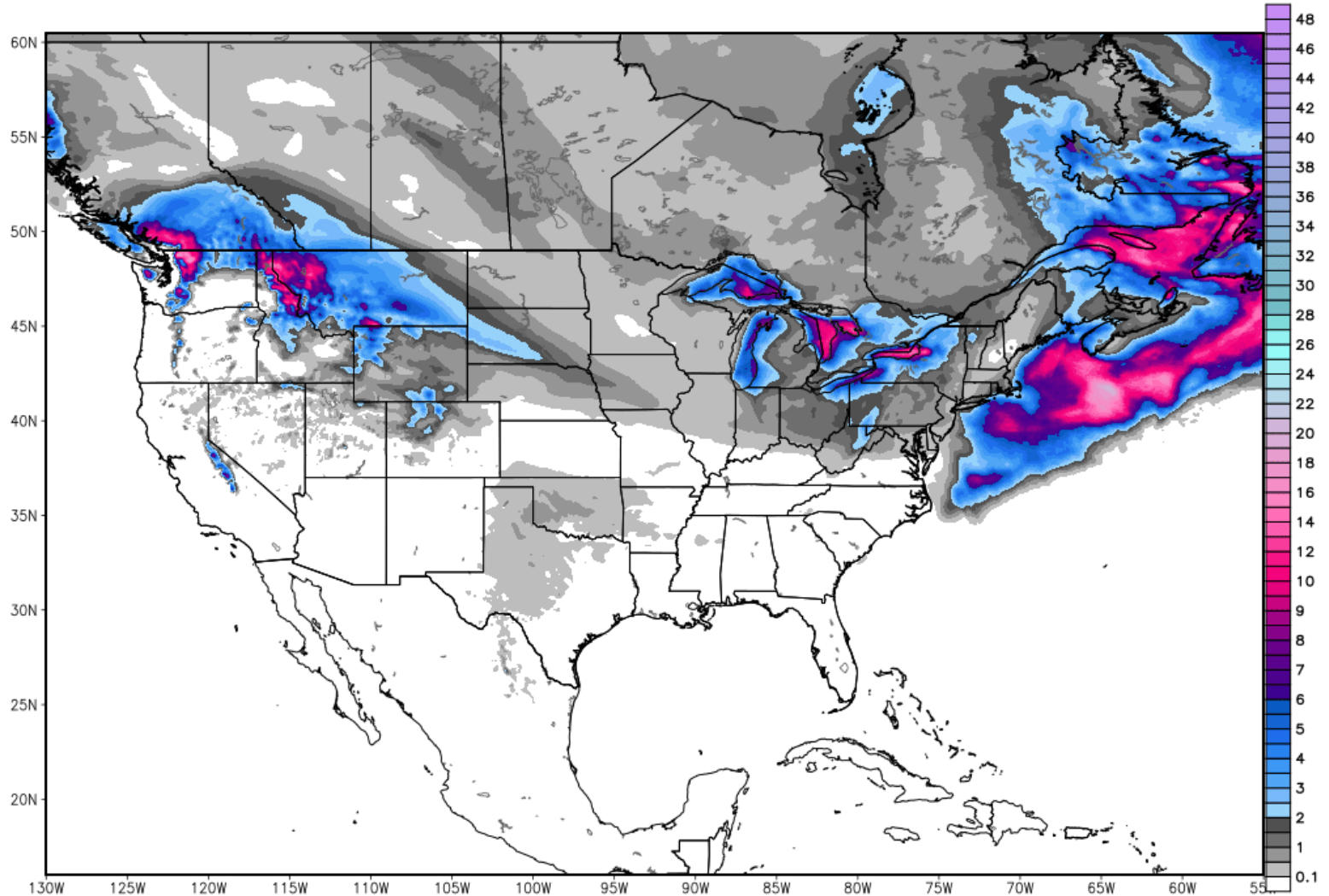
RAINFALL ANOMALIES NEXT 7 DAYS

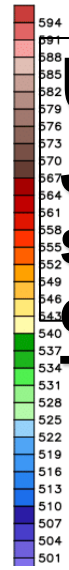
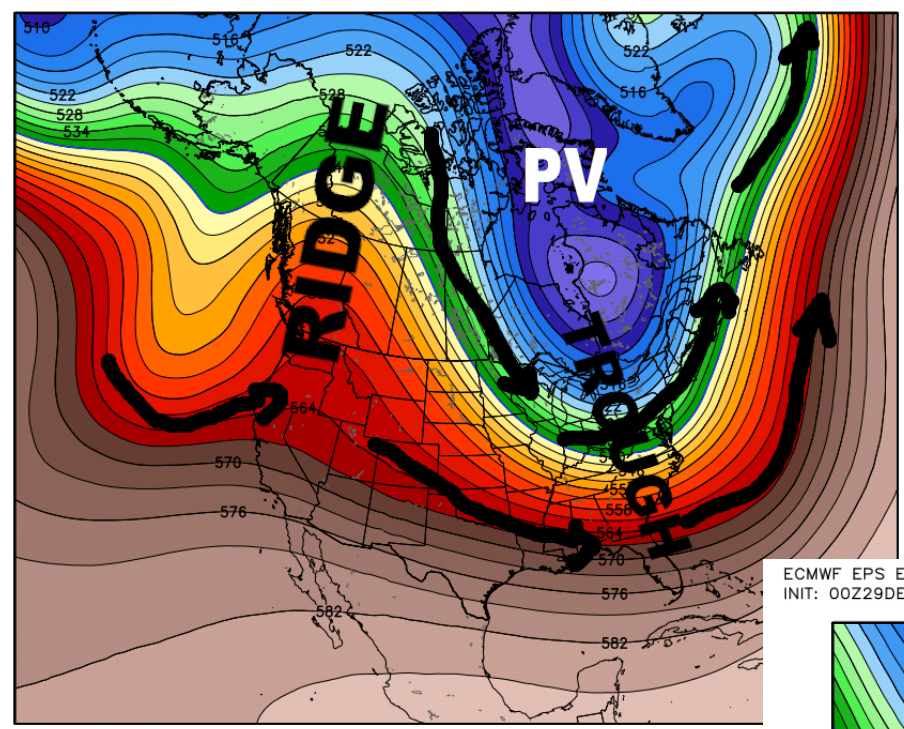


SNOWFALL NEXT 7 DAYS -- VERY LITTLE

ECMWF 144hr Snowfall [inch] from 00Z30DEC2017 to Fri 00Z05JAN2018
Model Init: 00Z29DEC2017

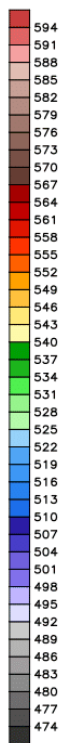
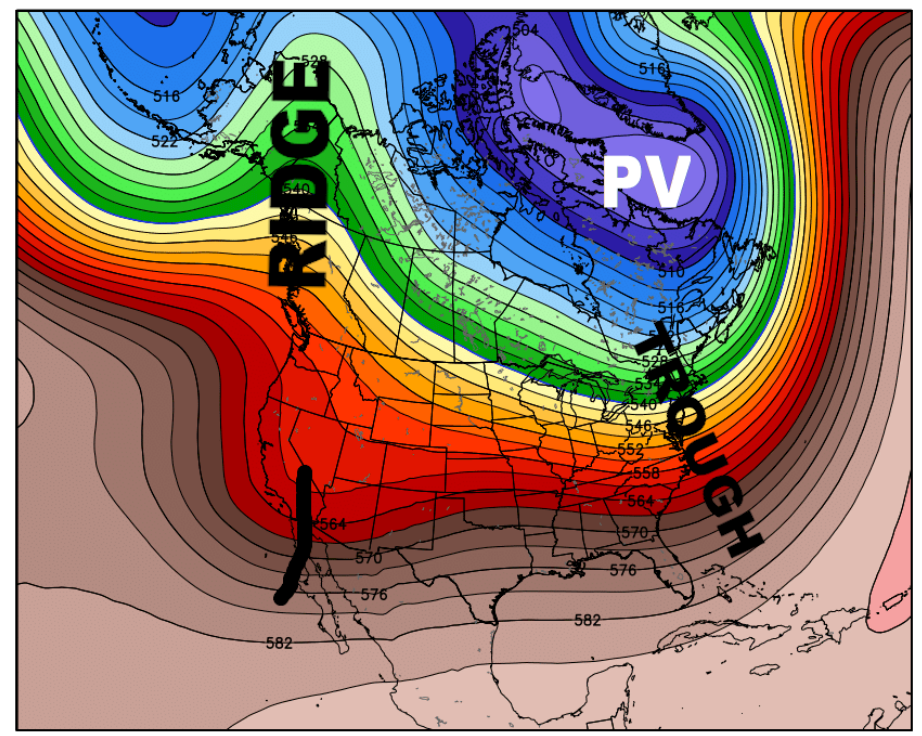
Max 20.79 inch





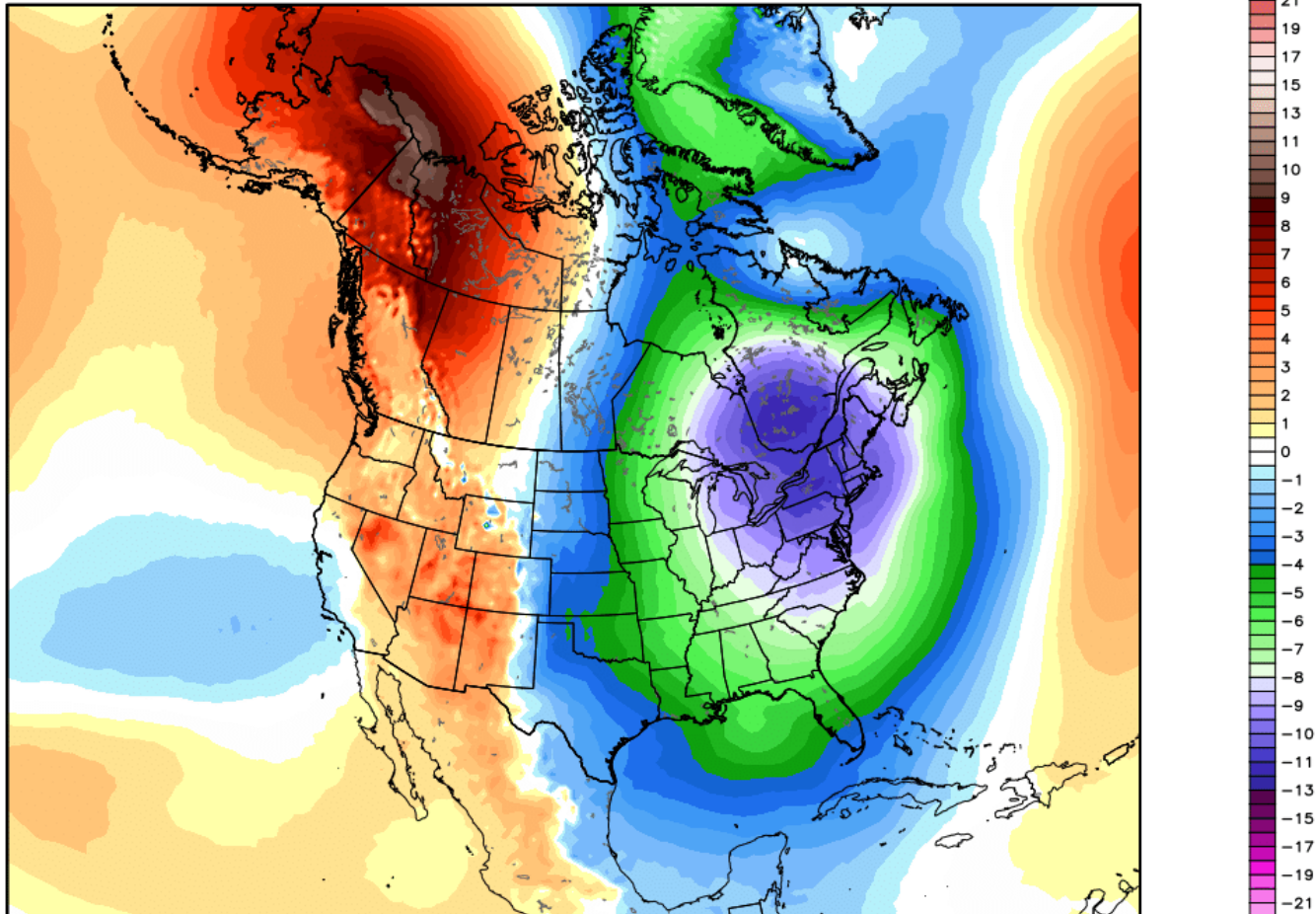
UPPER AIR PATTERN
JAN 4 -- deep trough
slides to East coast then
off the coast by JAN 6..
Taking severe cold withit

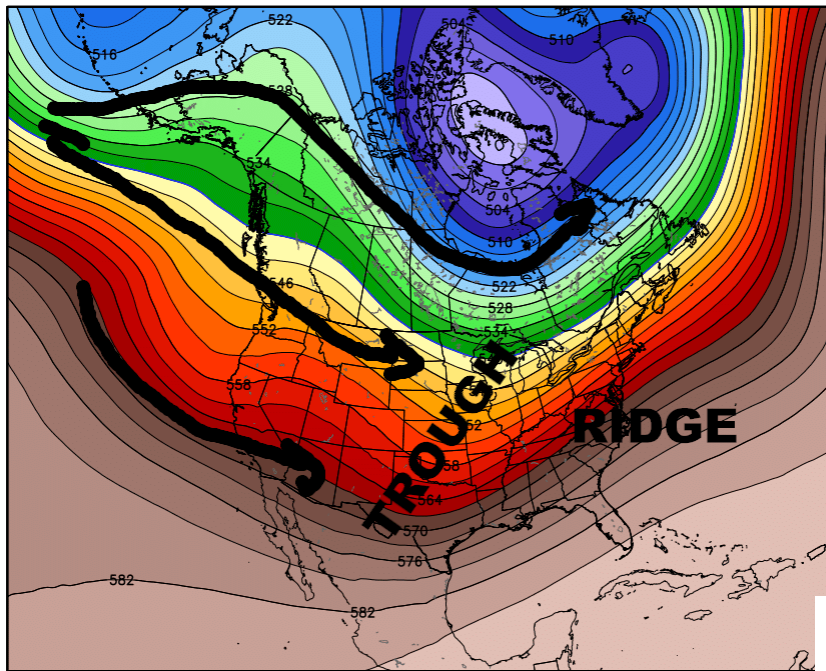
ECMWF EPS Ensemble Mean 500 hPa Geopotential Height [dm]
INIT: 00Z29DEC2017 fx: [216] hr --> Sun 00Z07JAN2018



6-10 DAYS SHOWS HEART OF COLD AIR EASTERN US

ECMWF EPS Ensemble Mean 850 hPa Temperature Anomaly [°C] fx: [240] hr --> Mon 00Z08JAN2018
INIT: 00Z29DEC2017 5-day Mean between 00Z03JAN2018 & 00Z08JAN2018 Day 5 - Day 10 Min|Max -11.4° | 11.0°C

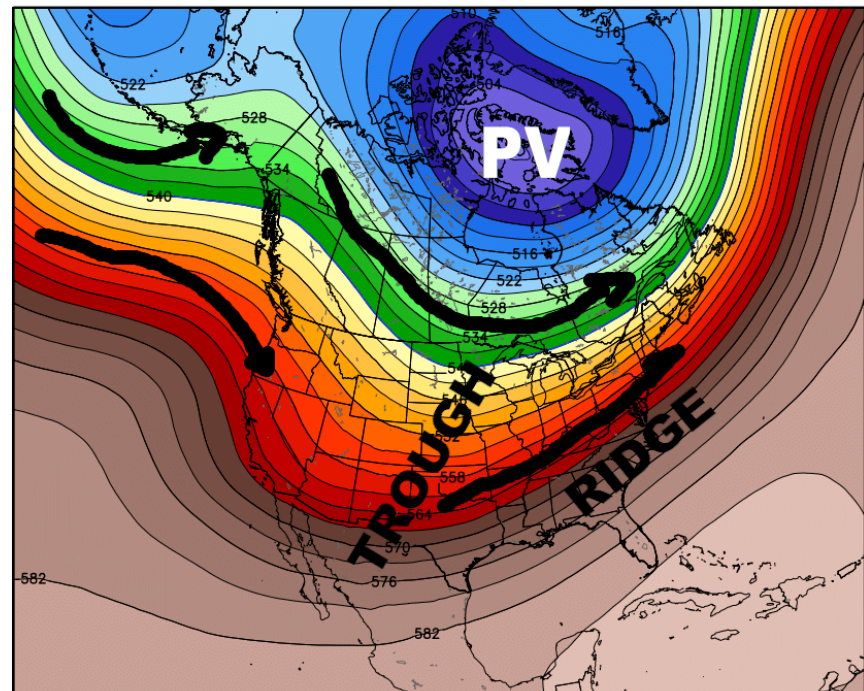




11-15DAY JET STREAM PATTERN

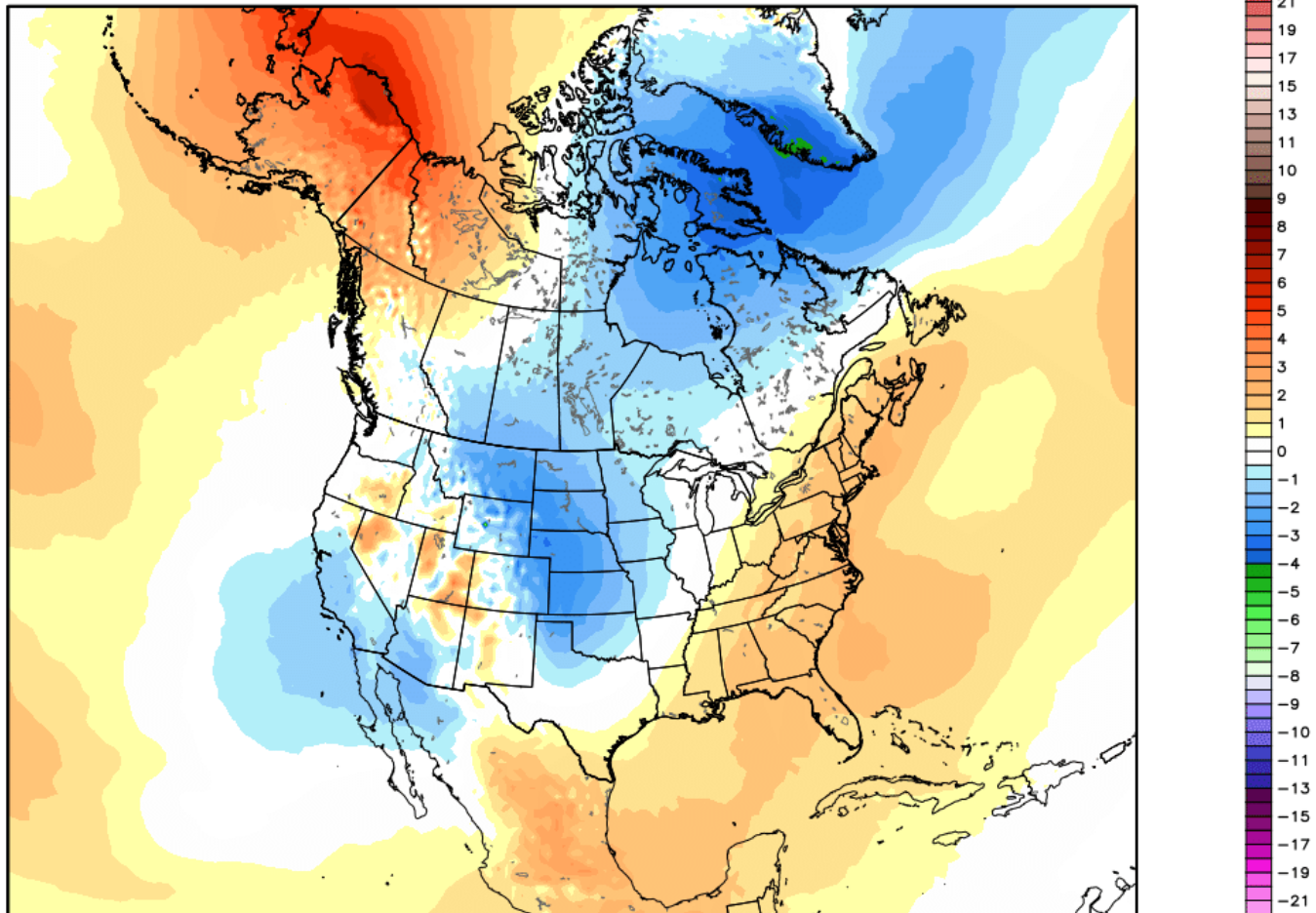
ECMWF EPS Ensemble Mean 500 hPa Geopotential Height [dm]
INIT: 00Z29DEC2017 fx: [360] hr --> Sat 00Z13JAN2018

SOME warming but
it may not last long
and new ridge
rebuilds over
western Canada



11-15 DAY 850mb TEMPS SHOWS NEAR NORMAL OVER MIDWEST ... SEASONAL COLD OVER PLAINS ..which may be the beginning of new Cold Blast

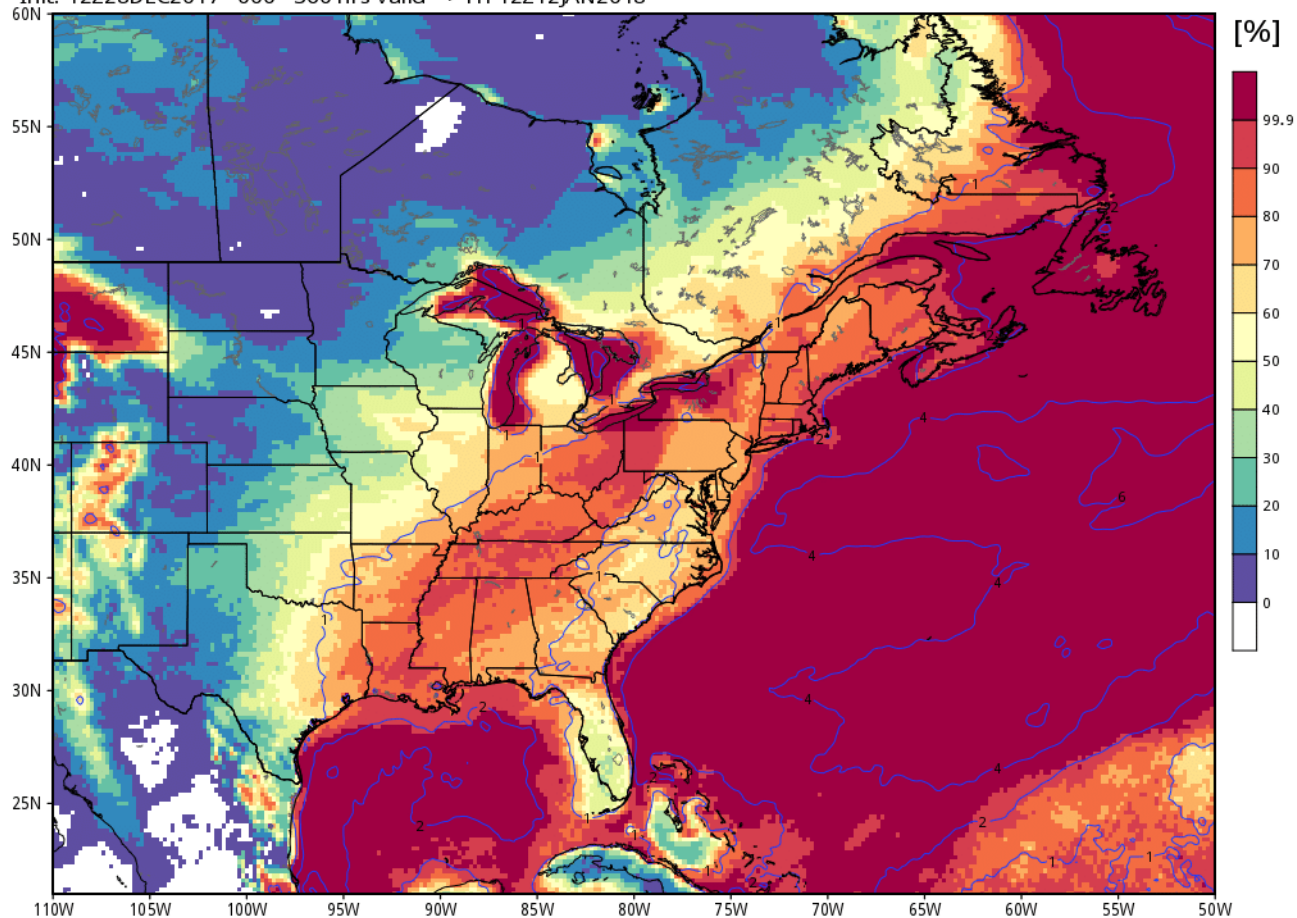
ECMWF EPS Ensemble Mean 850 hPa Temperature Anomaly [°C] fx: [360] hr --> Sat 00Z13JAN2018
INIT: 00Z29DEC2017 5-day Mean between 00Z08JAN2018 & 00Z13JAN2018 Day 10 - Day 15 Min|Max -6.2° | 6.7°C



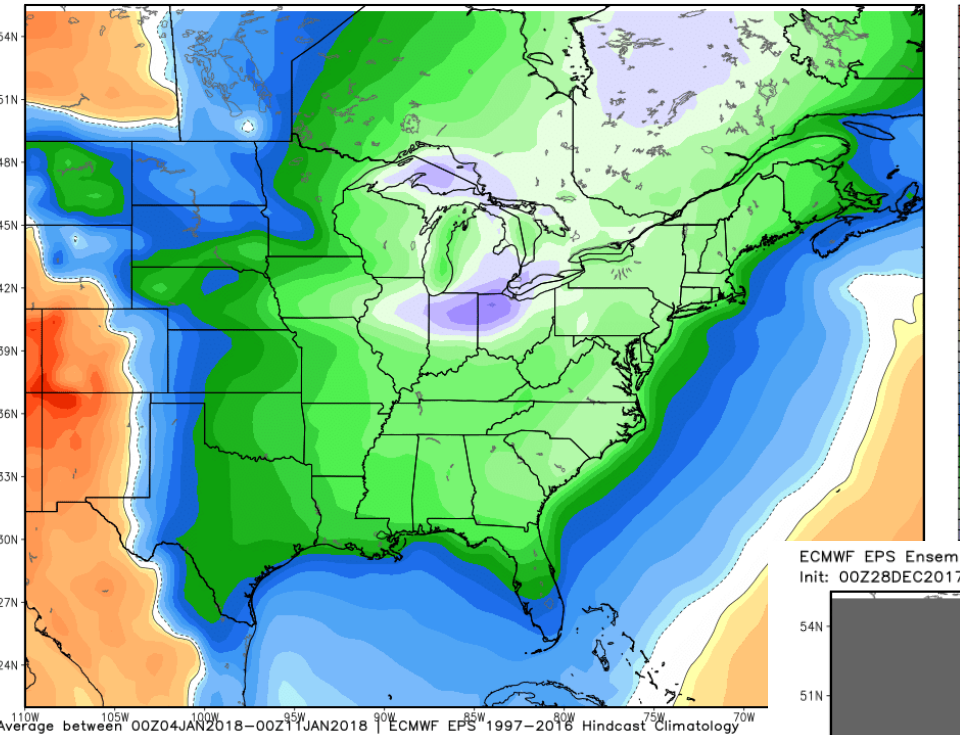
PROBABILITY OF SEEING ANY RAIN OVER 0.50"/ 12mm next 14 days / THRU Jan 12 !!

WCB = Bone Dry Plains at best 20% chance..Only Delta into TN KY IND OH have a good chance of seeing rains over 0.50"/ 12mm

ECMWF EPS Probability [%] Accumulated Precipitation \geq 0.5 inch +Ensemble Mean Contours
Init: 12Z28DEC2017 000 - 360 hrs Valid --> Fri 12Z12JAN2018



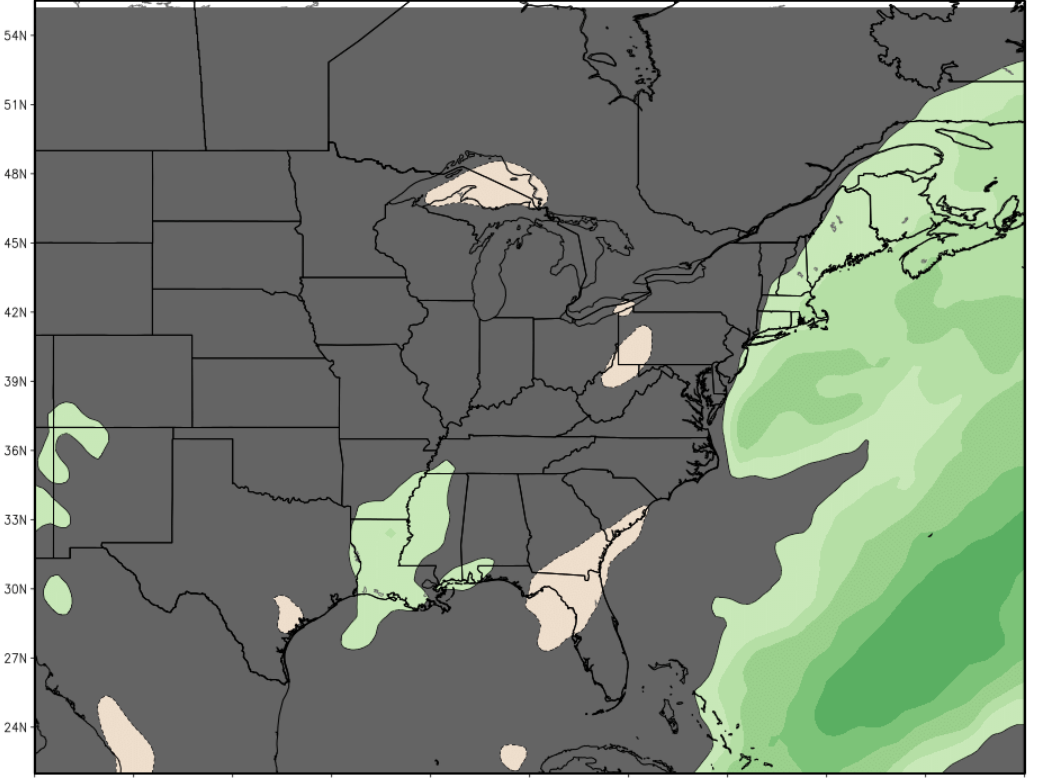
ECMWF EPS Ensemble Mean 7-day Avg 2m Temperature Anomaly [°C] Min|Max: -8.7° | 5.3°C
Init: 00Z28DEC2017 -- [336] hr --> Valid on Thu 00Z11JAN2018 Day 7 - Day 14



Week 2 SURFACE TEMP ANOMALIES

ECMWF EPS Ensemble Mean 7-day Avg Precipitation Anomaly [inch] Min|Max Anom: -0.4 | 2.0 inch
Init: 00Z28DEC2017 -- [336] hr --> Valid on Thu 00Z11JAN2018 Day 7 - Day 14

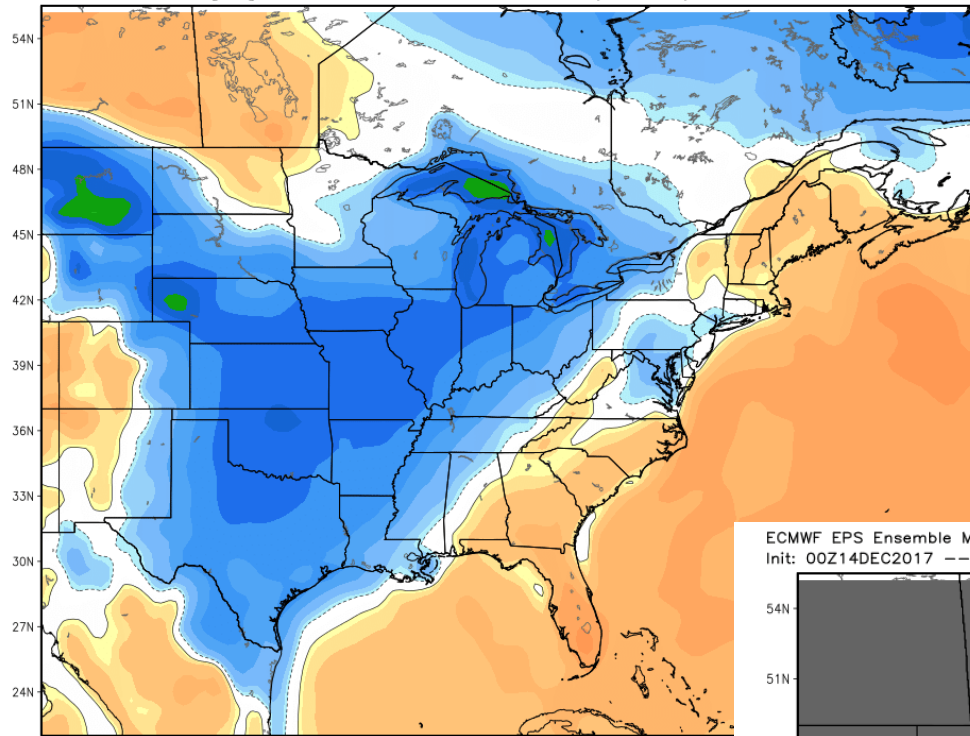
Average between 00Z04JAN2018-00Z11JAN2018 | ECMWF EPS 1997-2016 Hindcast Climatology



Accumulation between 00Z04JAN2018-00Z11JAN2018 | ECMWF EPS 1997-2016 Hindcast Climatology

Week 2 PRECIP ANOMALIES

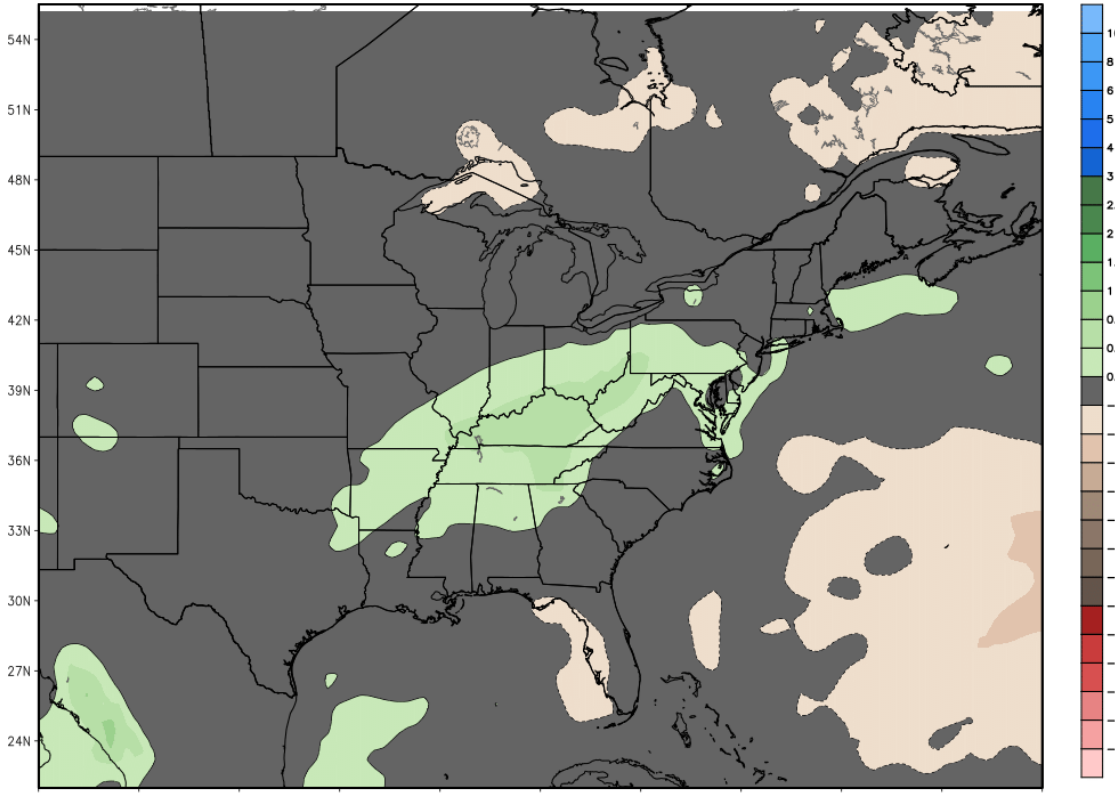
ECMWF EPS Ensemble Mean 7-day Avg 2m Temperature Anomaly [°C]
Init: 00Z28DEC2017 -- [504] hr --> Valid on Thu 00Z18JAN2018 Day 14 -- Day 21
Min|Max: -3.9° | 2.6°C



Week 3 SURFACE TEMP ANOMALIES

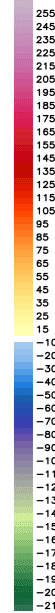
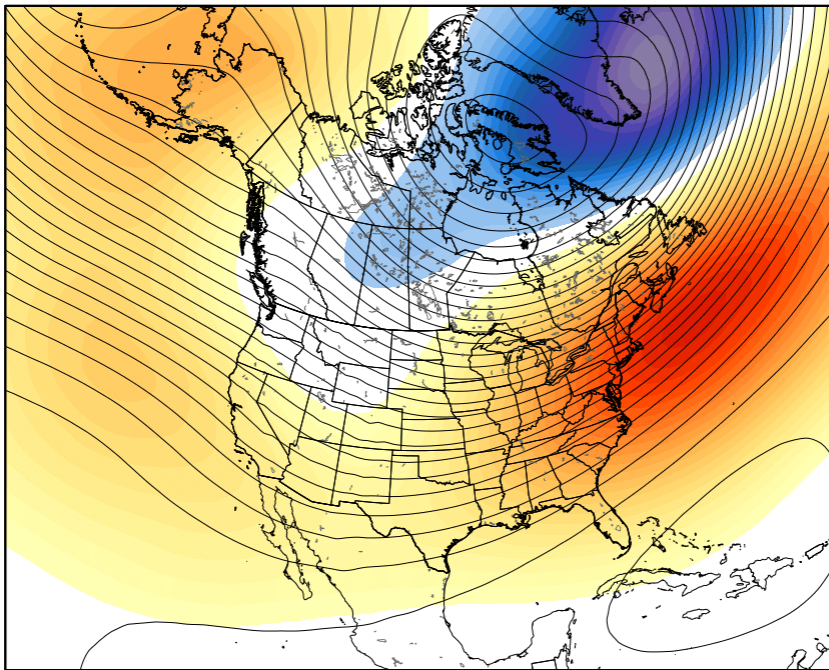
Average between 00Z11JAN2018-00Z18JAN2018 | ECMWF EPS 1997-2016 Hindcast Climc

ECMWF EPS Ensemble Mean 7-day Avg Precipitation Anomaly [inch]
Init: 00Z14DEC2017 -- [504] hr --> Valid on Thu 00Z04JAN2018 Day 14 -- Day 21
Min|Max Anom: -1.0 | 1.1 inch



Accumulation between 00Z28DEC2017-00Z04JAN2018 | ECMWF EPS 1997-2016 Hindcast Climatology

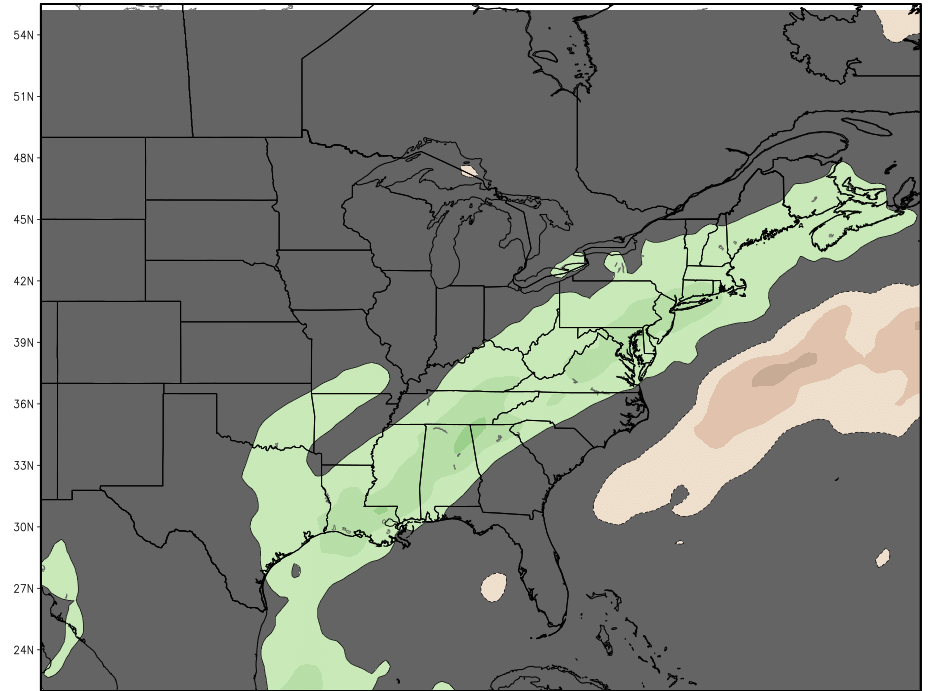
Week 3 PRECIP ANOMALIES -- above Normal Delta into ECB



Average between 00Z18JAN2018-00Z25JAN2018 | ECMWF EPS 1996-2015 Hindcast Climatology

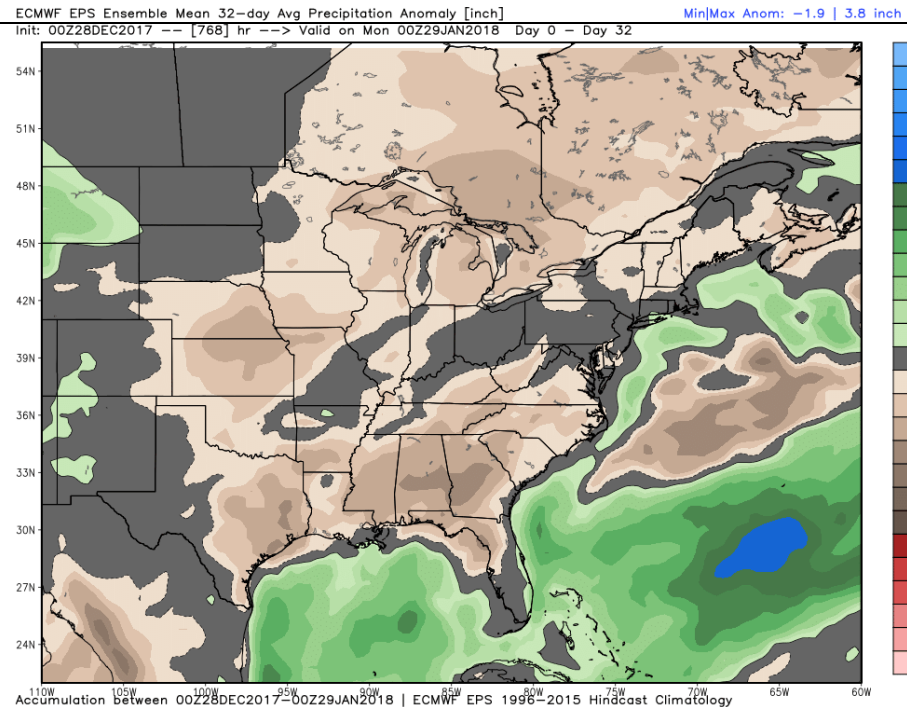
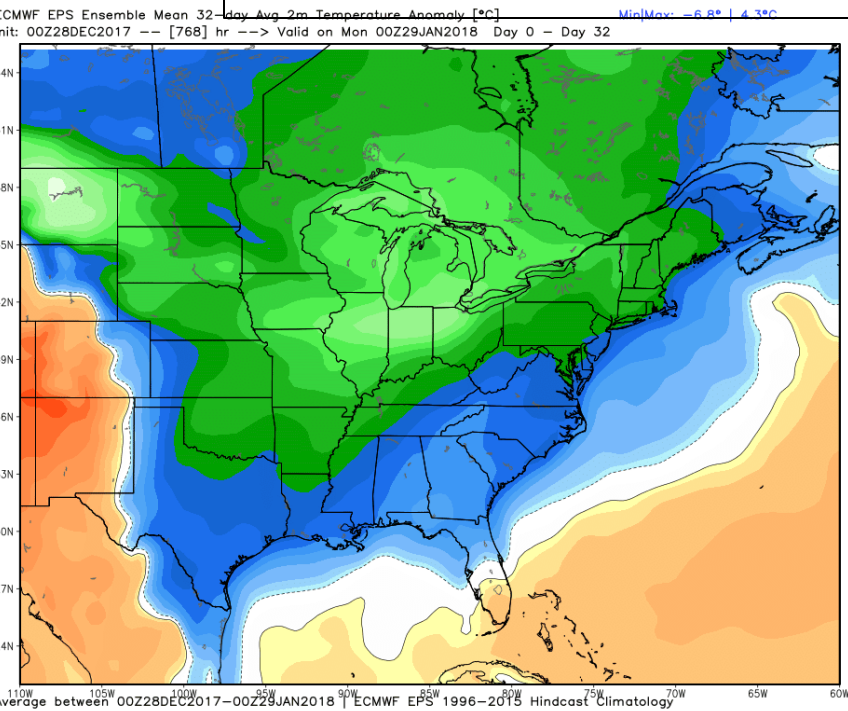
**Week 3 Mid JAN ...
 RIDGE over eastern
 INCREASES RIAN
 CHANCE over Midwest
 NOT Plains**

ECMWF EPS Ensemble Mean 7-day Avg Precipitation Anomaly [inch] Min|Max Anom: -0.8 | 0.8 inch
 Init: 00Z28DEC2017 -- [504] hr --> Valid on Thu 00Z18JAN2018 Day 14 - Day 21



Accumulation between 00Z17JAN2018-00Z18JAN2018 | ECMWF EPS 1997-2016 Hindcast Climatology

NEXT 32 DAYS - SFC TEMP ANOMALIES LEFT side... PRECIP ANOMALIES RIGHT SIDE

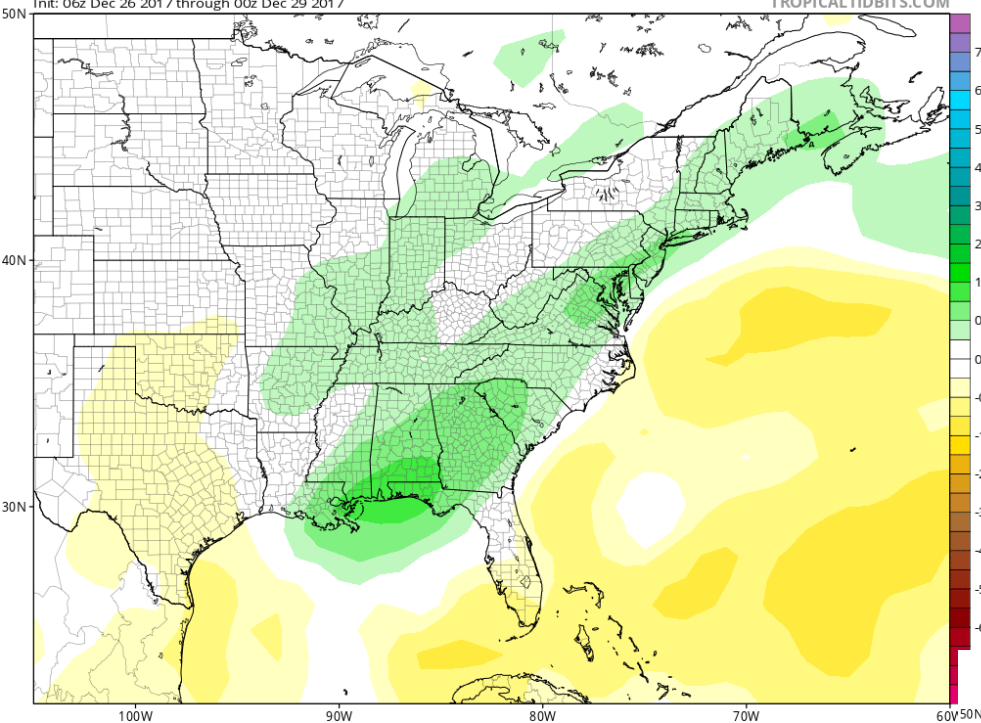


CFSv2 Accumulated Precip. Anomaly (in) from 00z12Jan2018 to 00z19Jan2018 (Days 15-21)

Average of last 48 forecasts (12 runs x 4 members)

Init: 06z Dec 26 2017 through 00z Dec 29 2017

TROPICALTIDBITS.COM



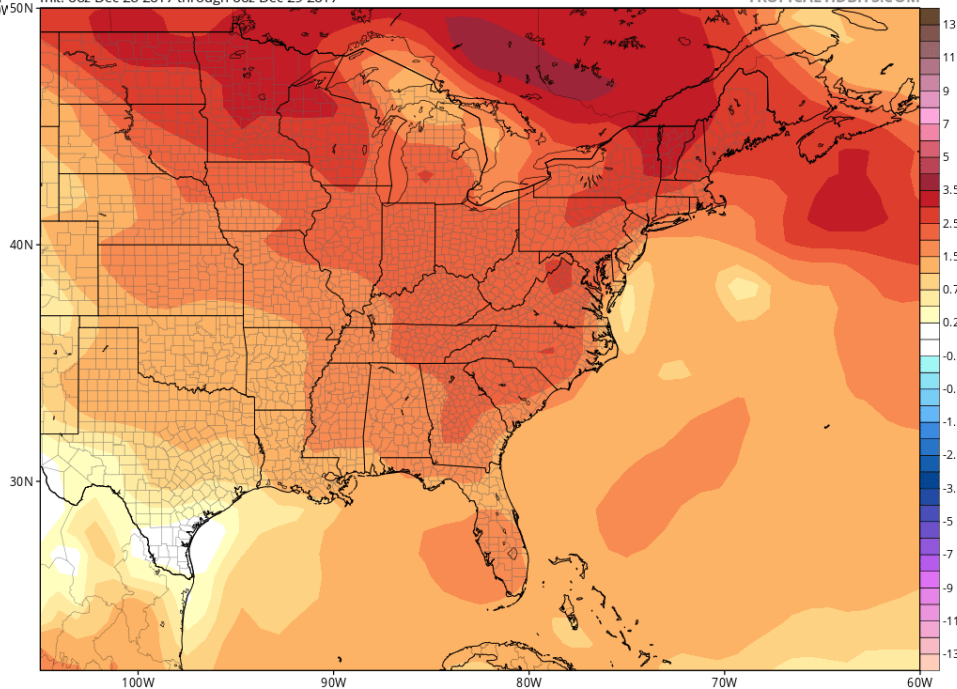
**CFS Week 3 Mid JAN ...
WETTER over eastern
US especially over Gulf
coast/ SE US ... And Mild**

CFSv2 Mean 2m Temperature Anomaly (°C) from 00z12Jan2018 to 00z19Jan2018 (Days 15-21)

Average of last 48 forecasts (12 runs x 4 members)

Init: 06z Dec 26 2017 through 00z Dec 29 2017

TROPICALTIDBITS.COM

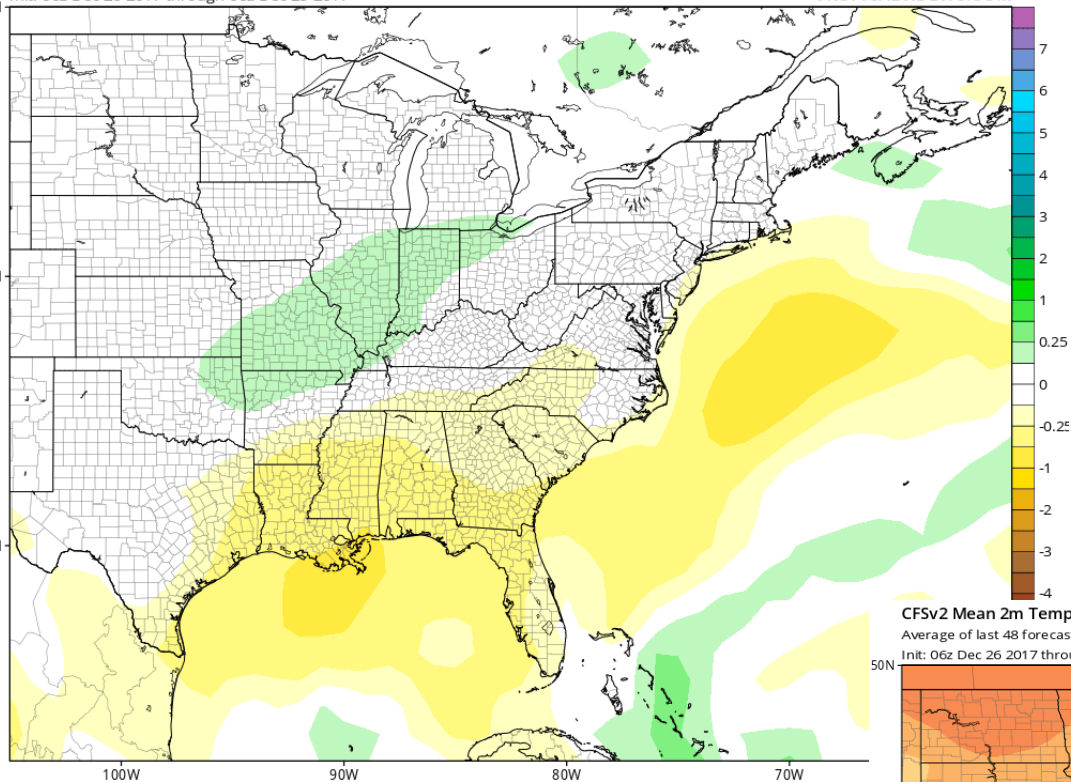


CFSv2 Accumulated Precip. Anomaly (in) from 00z19Jan2018 to 00z26Jan2018 (Days 22-28)

Average of last 48 forecasts (12 runs x 4 members)

Init: 06z Dec 26 2017 through 00z Dec 29 2017

TROPICALTIDBITS.COM



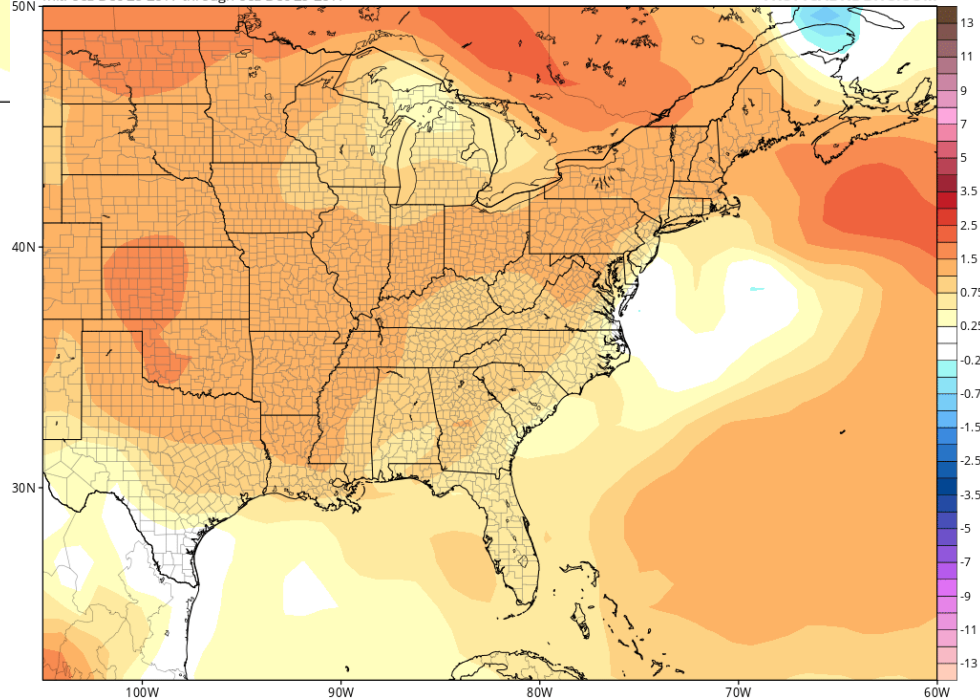
**CFS Week 4 Mid
JAN ... WETTER
over ECB DRY
Gulf coast ...mild
temps for late Mid
/ Late JAN**

CFSv2 Mean 2m Temperature Anomaly (°C) from 00z19Jan2018 to 00z26Jan2018 (Days 22-28)

Average of last 48 forecasts (12 runs x 4 members)

Init: 06z Dec 26 2017 through 00z Dec 29 2017

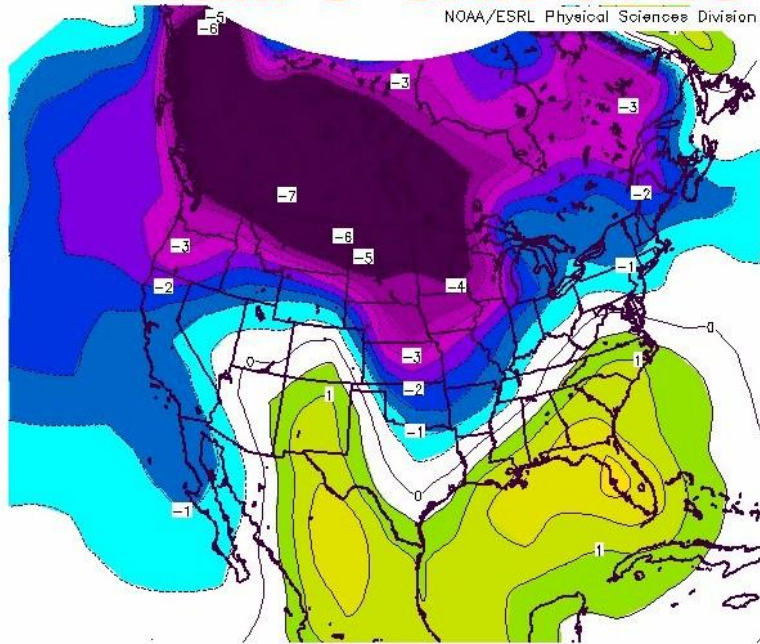
TROPICALTIDBITS.COM



The ROLLOVER model takes top 10 matches of the 11-15 day pattern and ASSUMES the pattern continues into the 16-20 day

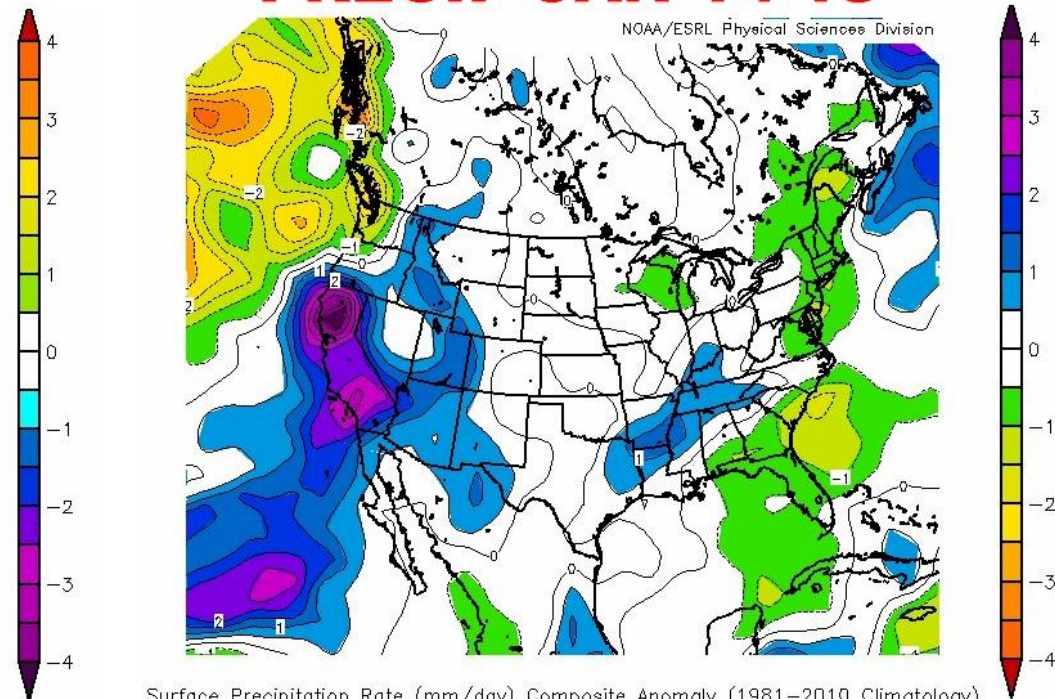
"ROLLOVER' MODEL 16-20DAY

TEMPS JAN 14-18



Surface Air Temperature (K) Composite Anomaly (1981-2010 Climatology)
CPC Analog 16-20 Day Composite

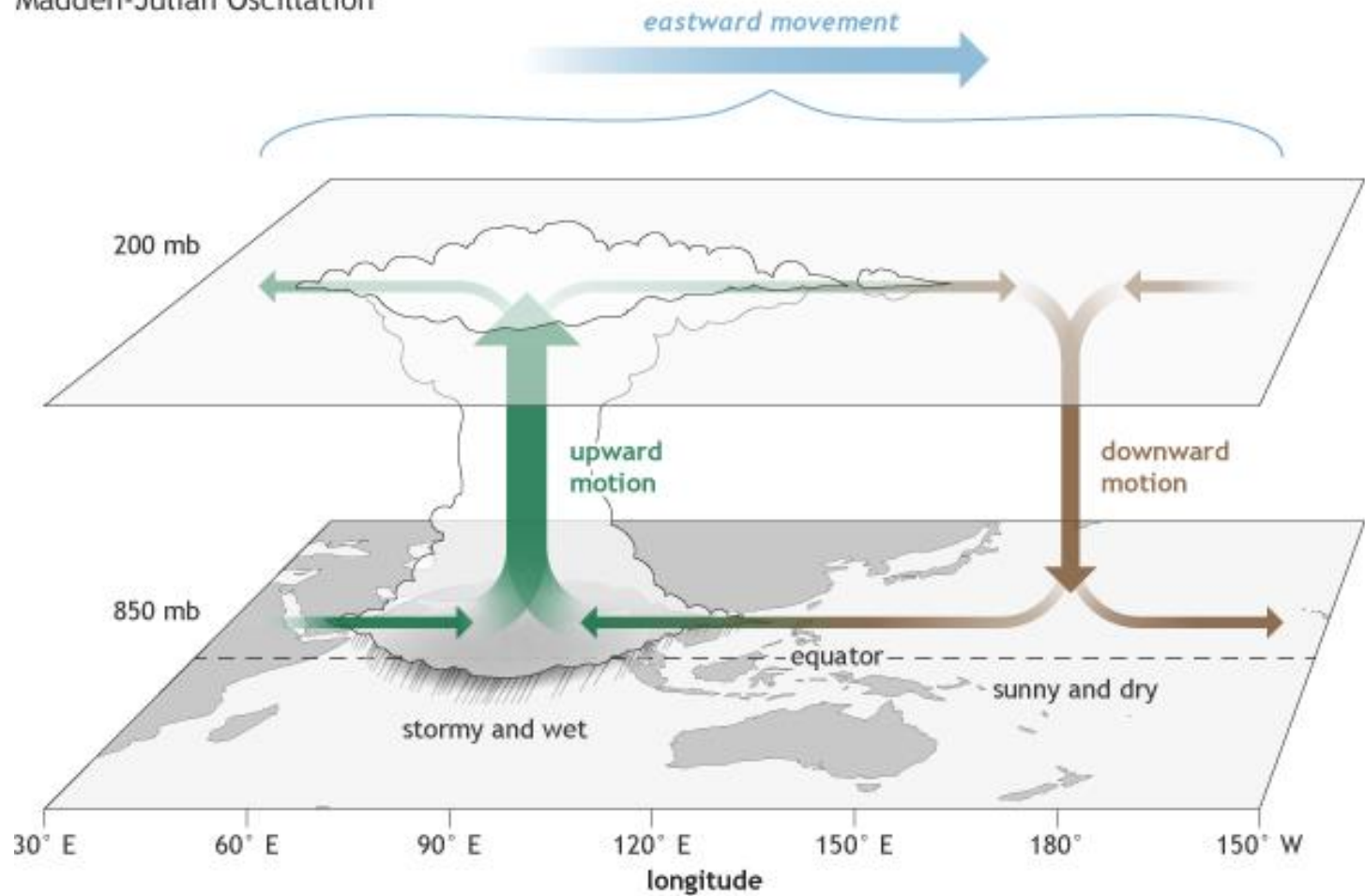
PRECIP JAN 14-18



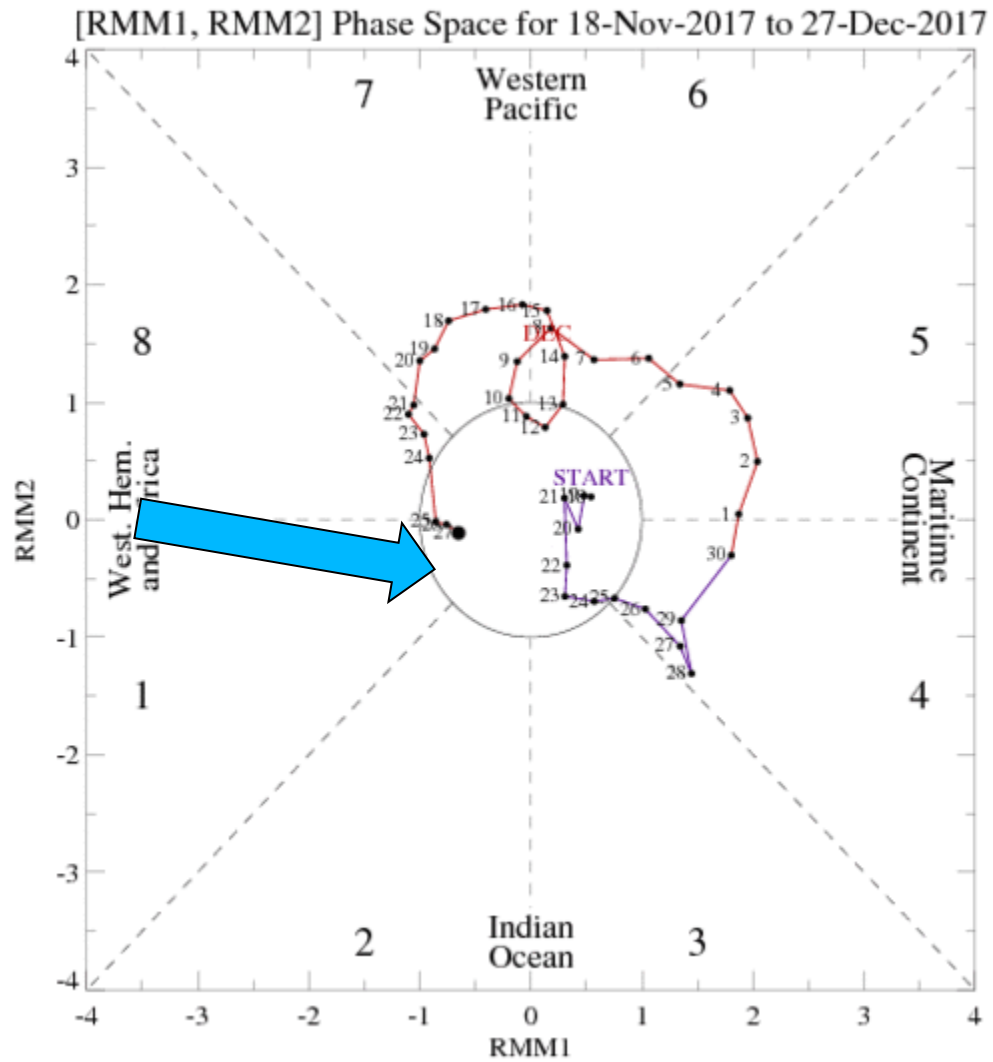
Surface Precipitation Rate (mm/day) Composite Anomaly (1981-2010 Climatology)
CPC Analog 16-20 Day Composite

LETS TALK MJO/ENSO

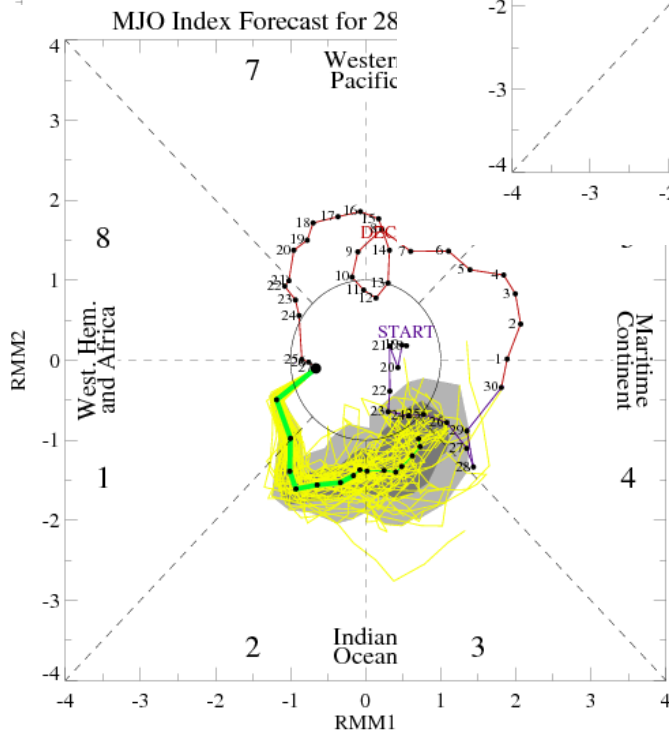
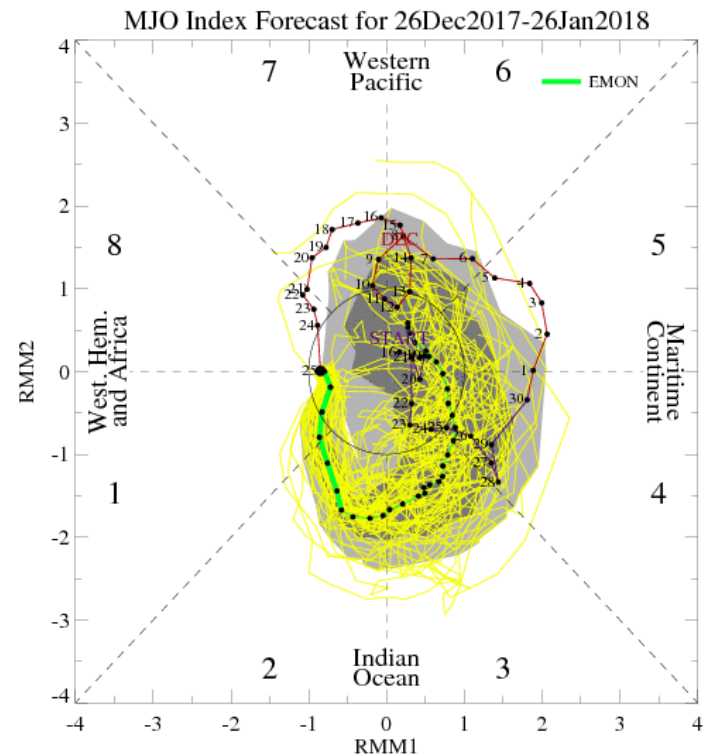
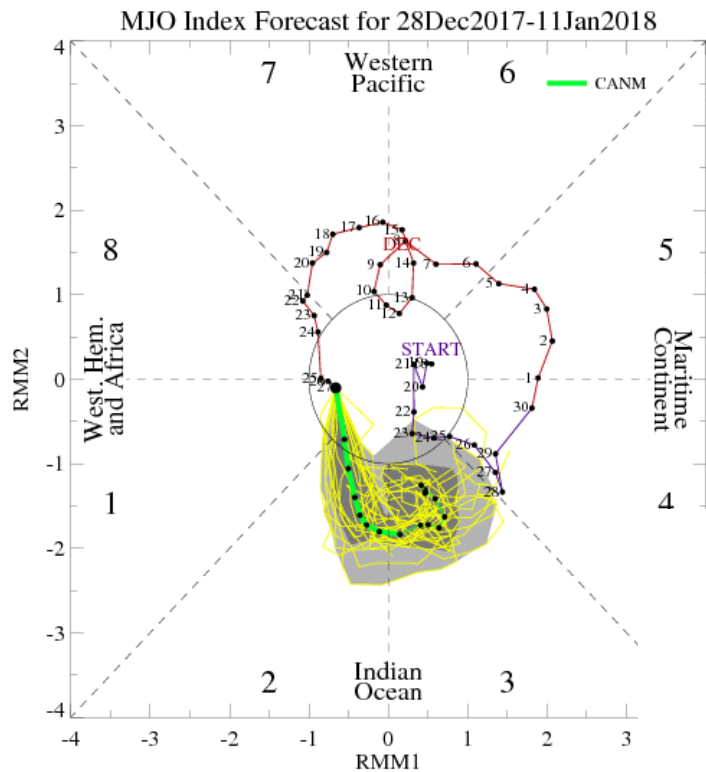
Madden-Julian Oscillation



MJO IS IN NEUTRAL

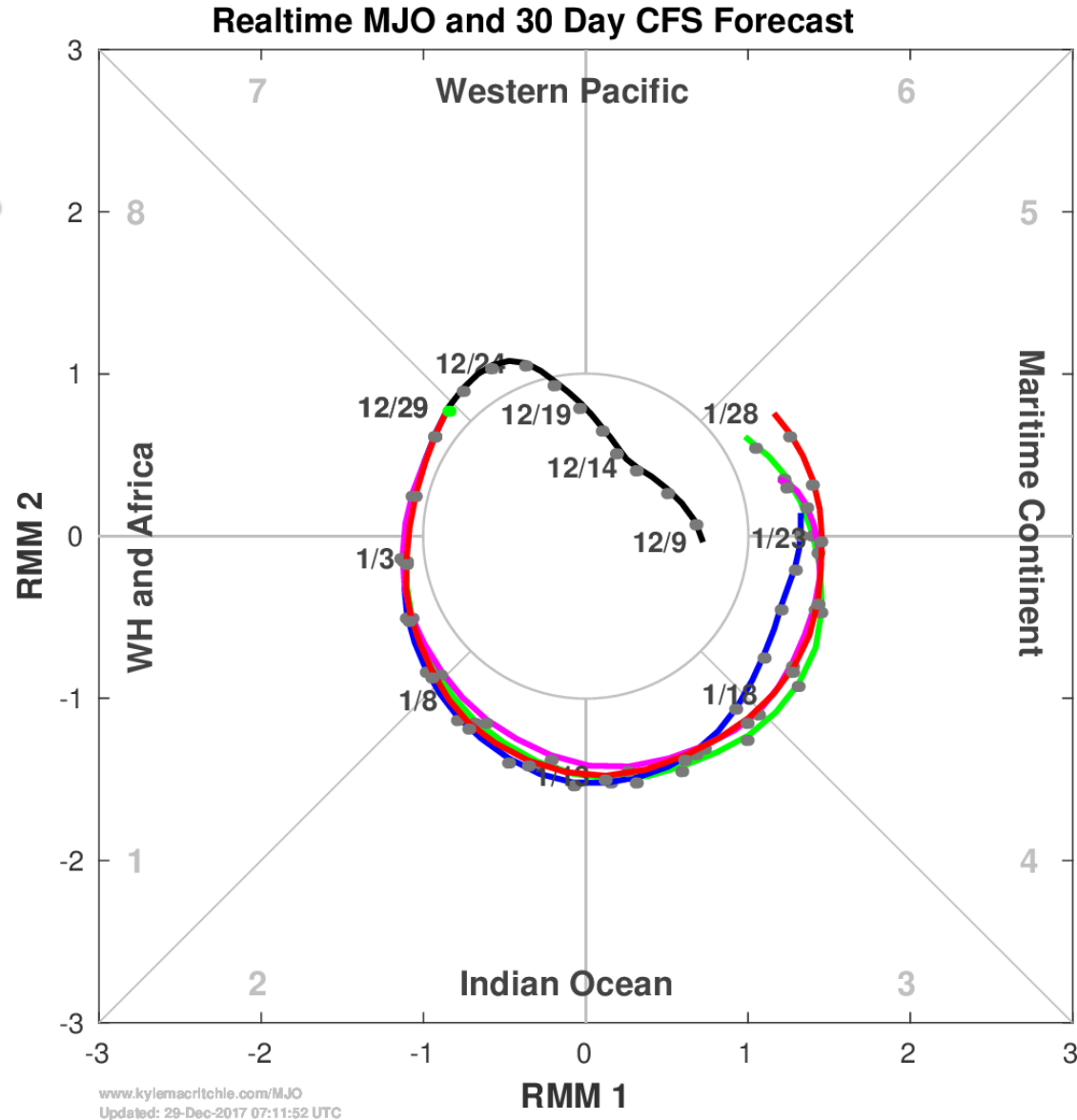


MJO PHASE MOVES BACK OUT ..INTO PHASE 2 AND 3 BY MID / LATE JAN



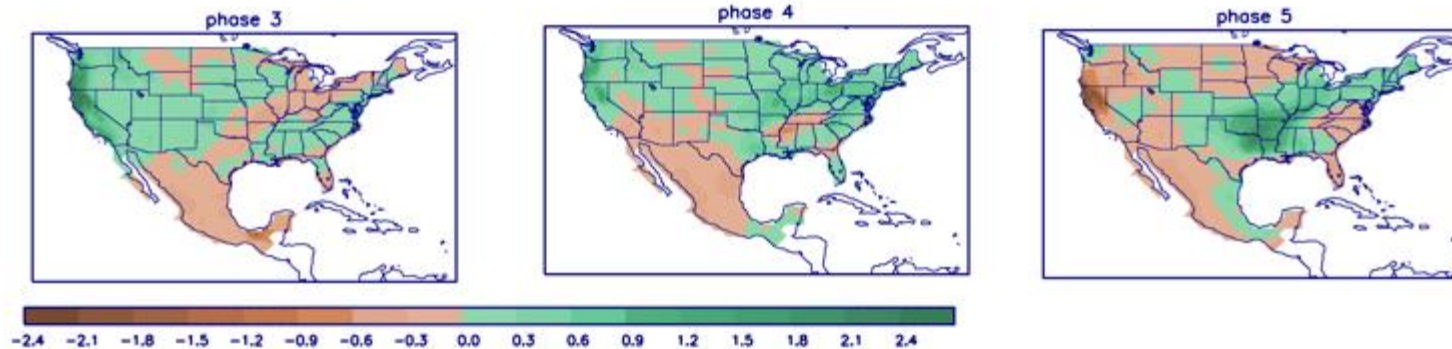
EXPERIMENTAL MJO CONTINUES INTO PHASE 4 5 BY END OF JAN

WHICH MEANS WHAT?



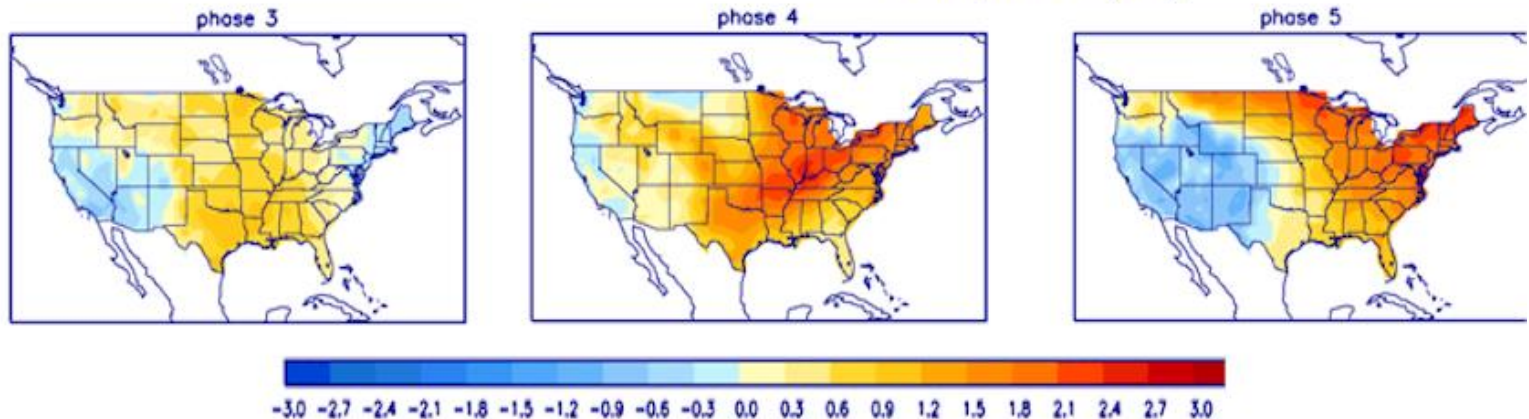
IN JAN... PHASE 3 4 5 ARE ALL WETTER THAN NORMAL OVER PLAINS / MIDWEST ... HRWW ESPECIALLY IN PHASE 5

P composites (DJF)



IN JAN... PHASE 3 4 5 ARE ALL WARMER THAN NORMAL OVER PLAINS / MIDWEST ... WHICH SHIFTS INTO EASTERN US IN PHASE 4-5

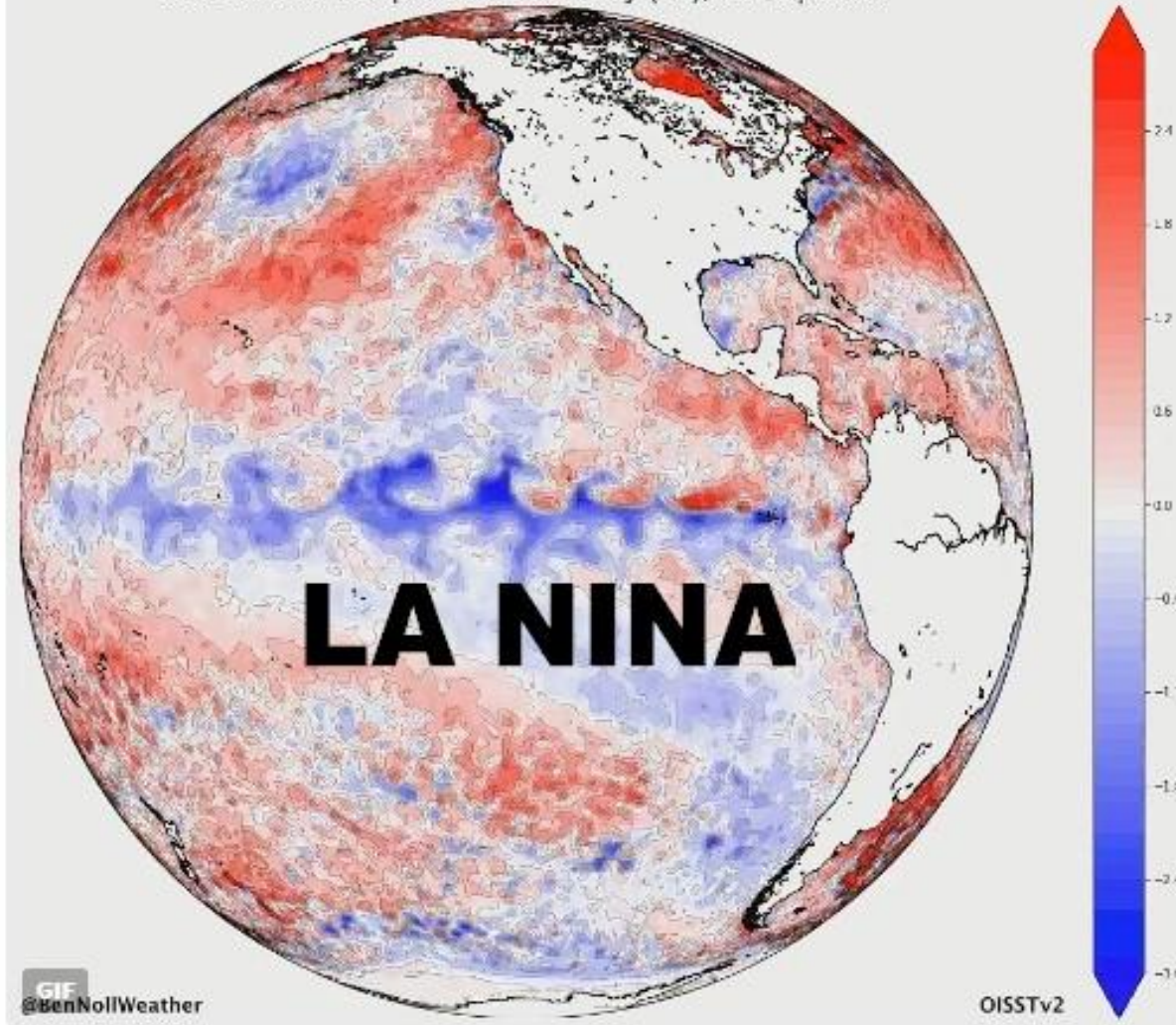
T composites (DJF)



SUMMARY US / HRWW

- 1. NEW ARCTIC BLAST COMING... Dec 31- Jan 3. Sub zero N of I-80 single Digits I-70 to I-80 Teens into OK TX**
- 2. Cold pattern ends of Plains JAN 4 ends over East Coast Jan 7. Milder (return to normal) pattern develops but may not last long**
- 3. very dry most areas(esp HRWW) next 3 weeks maybe next 30 days**
- 4. CFS week 3 and 4 somewhat warmer than Euro weeklies... But also favor somewhat better than normal rains over Gulf coast ECB**
- 5. MJO Phase 3...4..5. favors warmer temps than Euro weeklies and MUCH wetter over HRWW later Jan.. Assuming MJO makes it to Phase 5**

Sea Surface Temperature Anomaly (°C), 10 Sep 2017



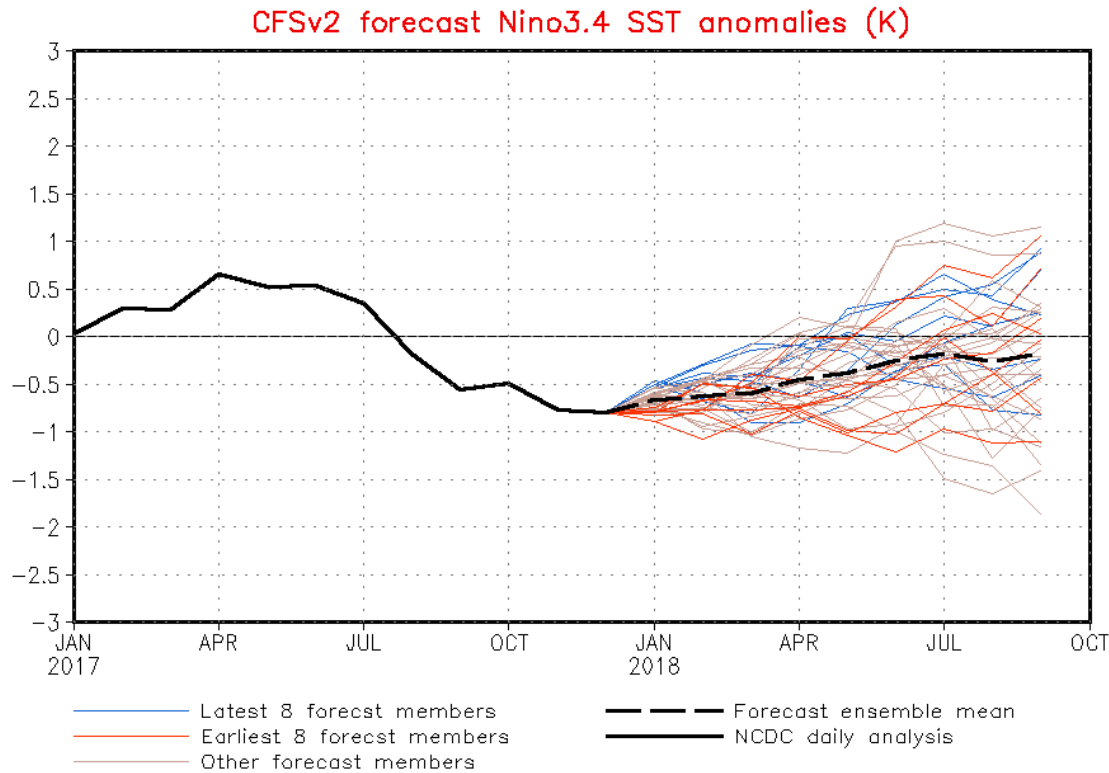
6:29 AM - 13 Sep 2017

LATEST CFS MODEL PROJECTION = ** La Nina NEVER reaches threshold for MODERATE but stays weak into APRIL... Prolonging dry pattern into at least part of SPRING 2018

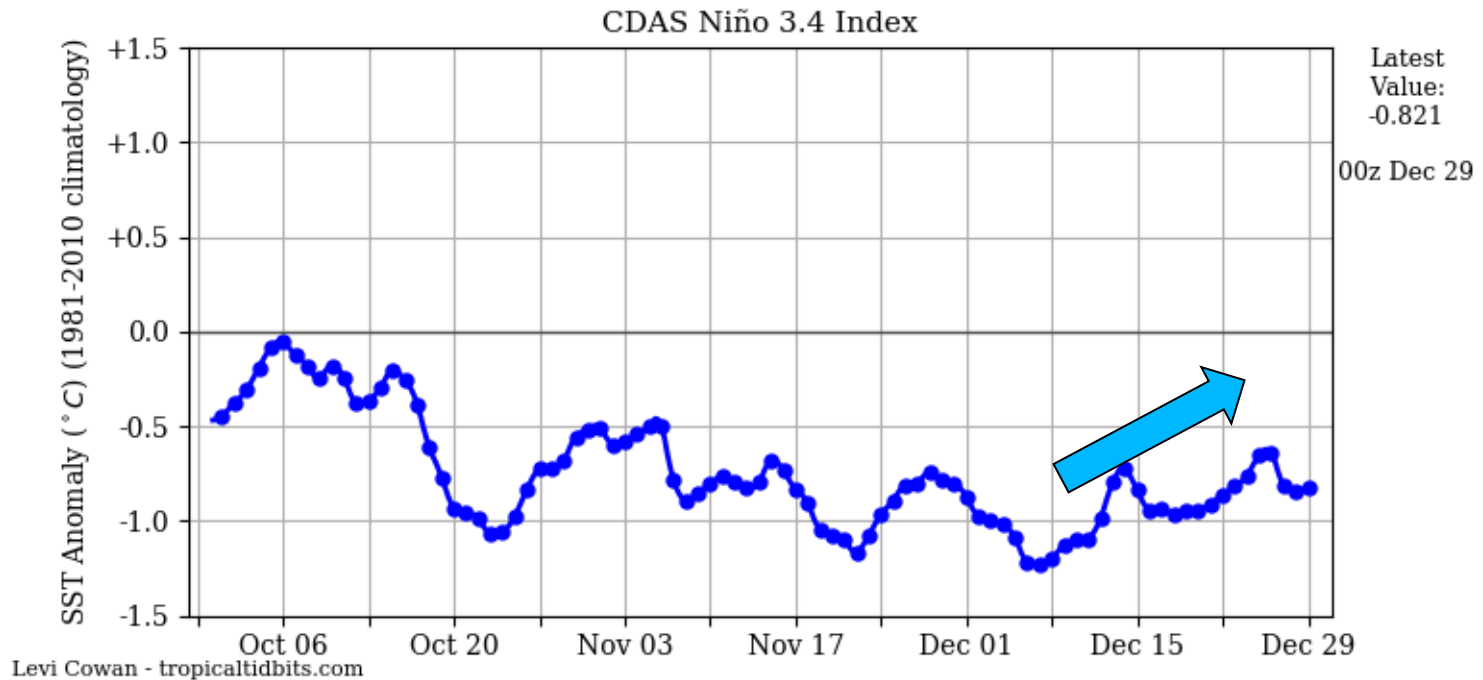


NWS/NCEP/CPC

Last update: Thu Dec 28 2017
Initial conditions: 18Dec2017-27Dec2017

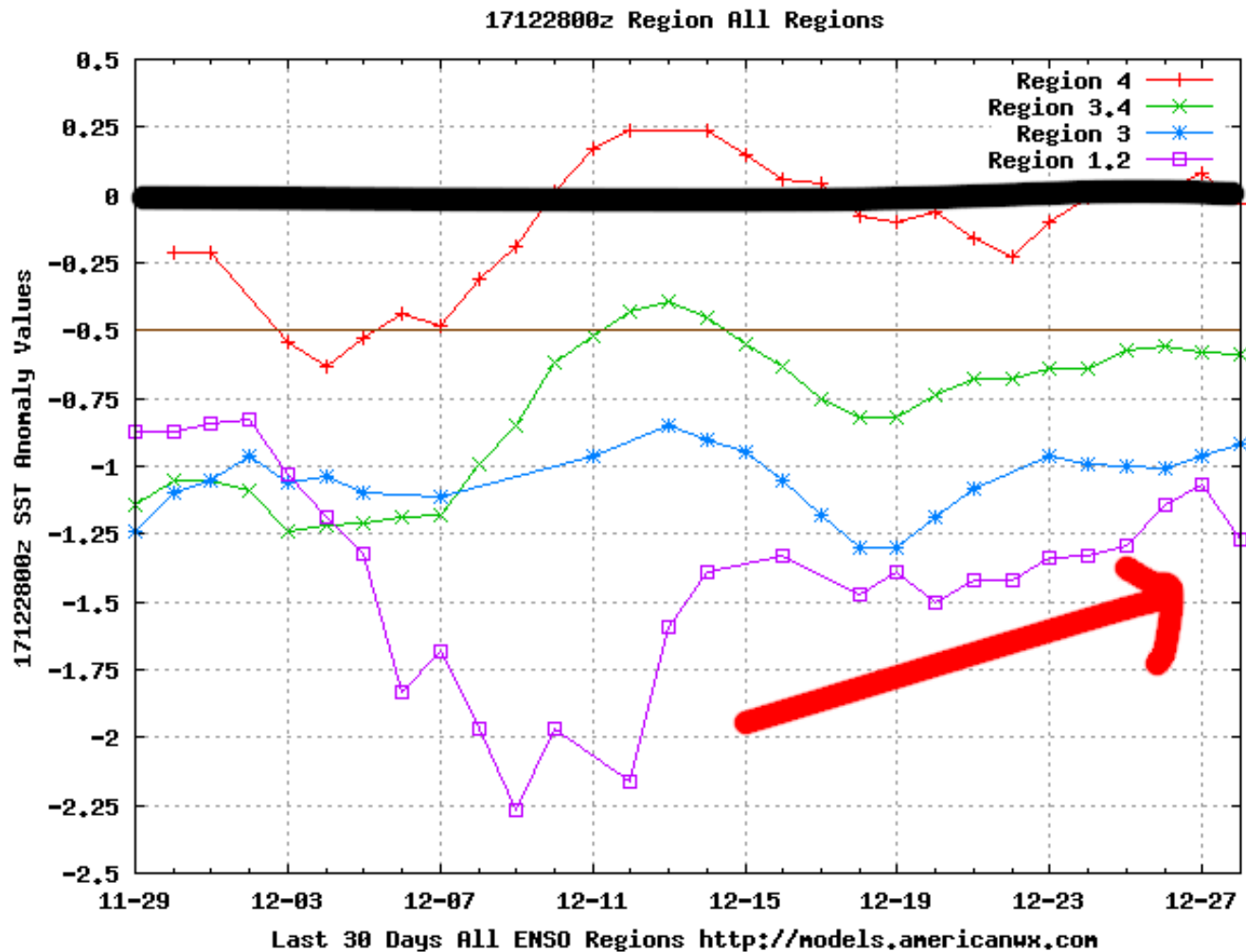


ACTUAL ENSO REGION 3.4 LA NINA clearly weakening since DEC 7-10



ACTUAL SEA SURFACE TEMP ANOMALIES – of all 4 regions.. This is NOT a Model “projection”

Moderately cold SSTA ... Also shows weakening of the cold SSTA/ LA Nina

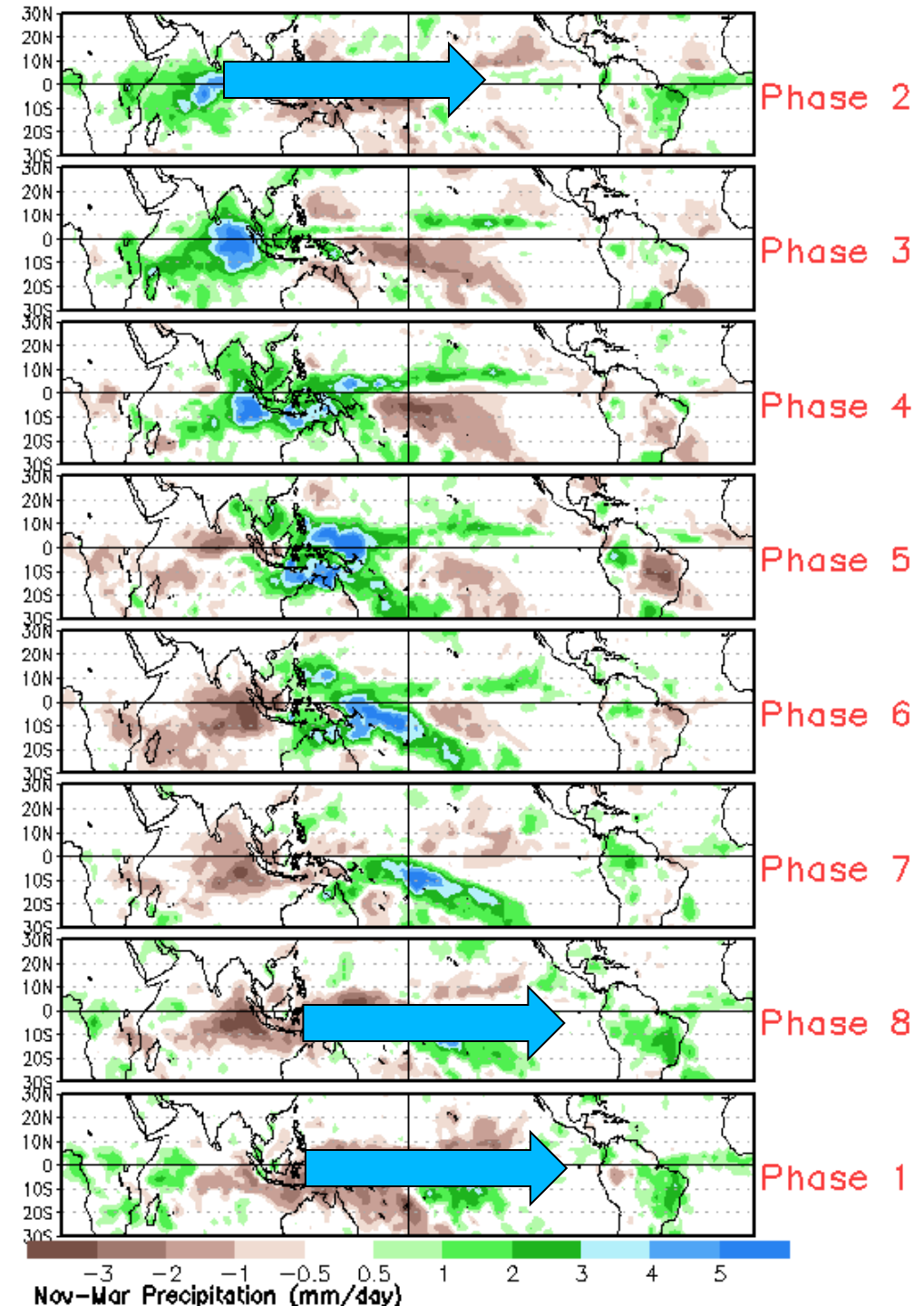


**PHASE 7 NEAR
NORMAL RAINS
BRAZIL STILL
WET OVER ARG**

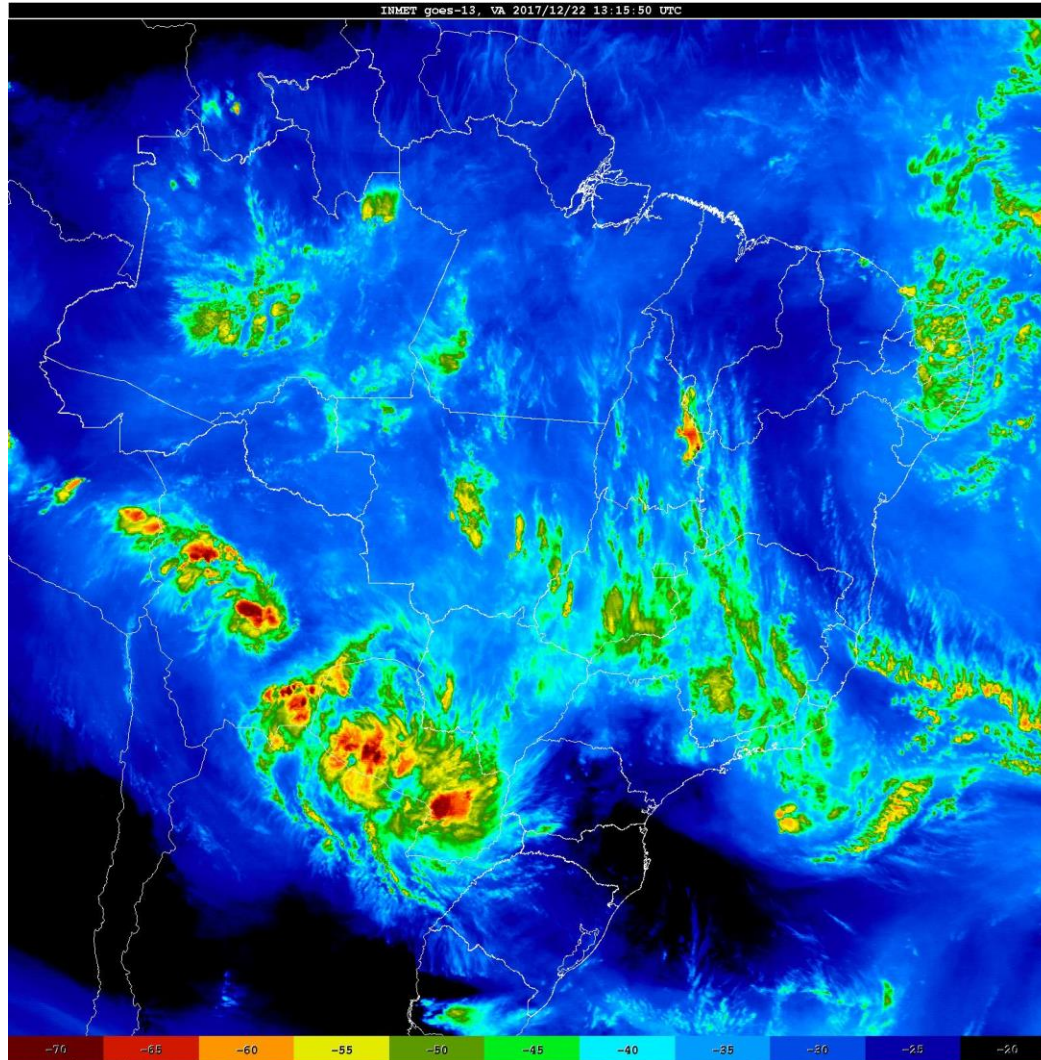
PHASE 8

PHASE 1

PHASE 2



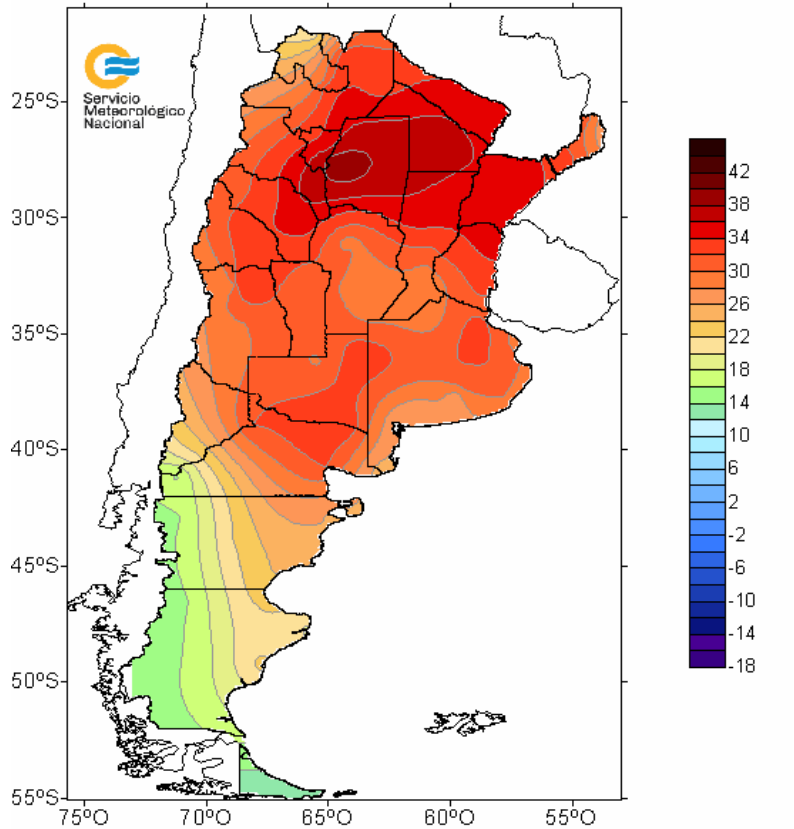
BIG storms over Parg clear over all of ARG.. storms over Minas Goias Tocatin into eastern Mato Grosso



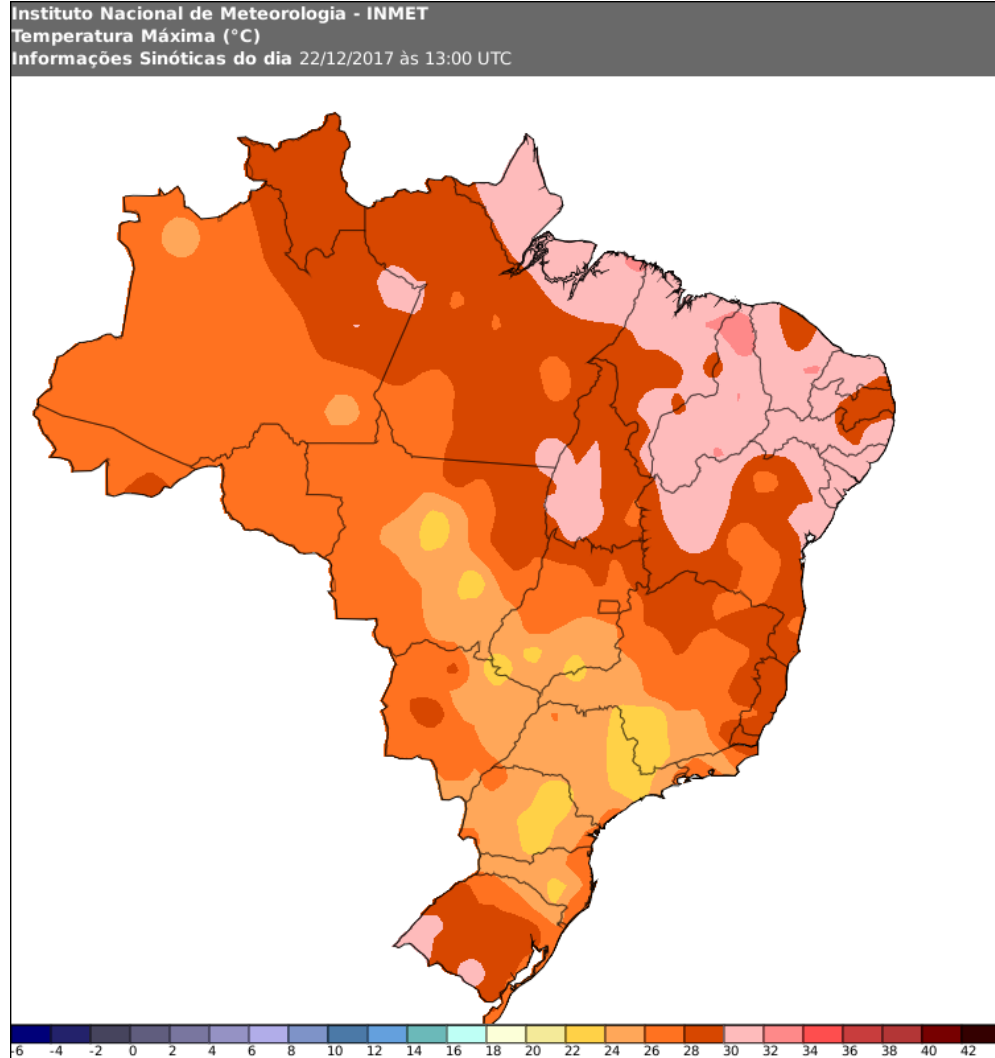
MAX TEMPS DEC 21

TEMPERATURAS MAXIMAS

21 de Diciembre de 2017



Servicio Meteorológico Nacional

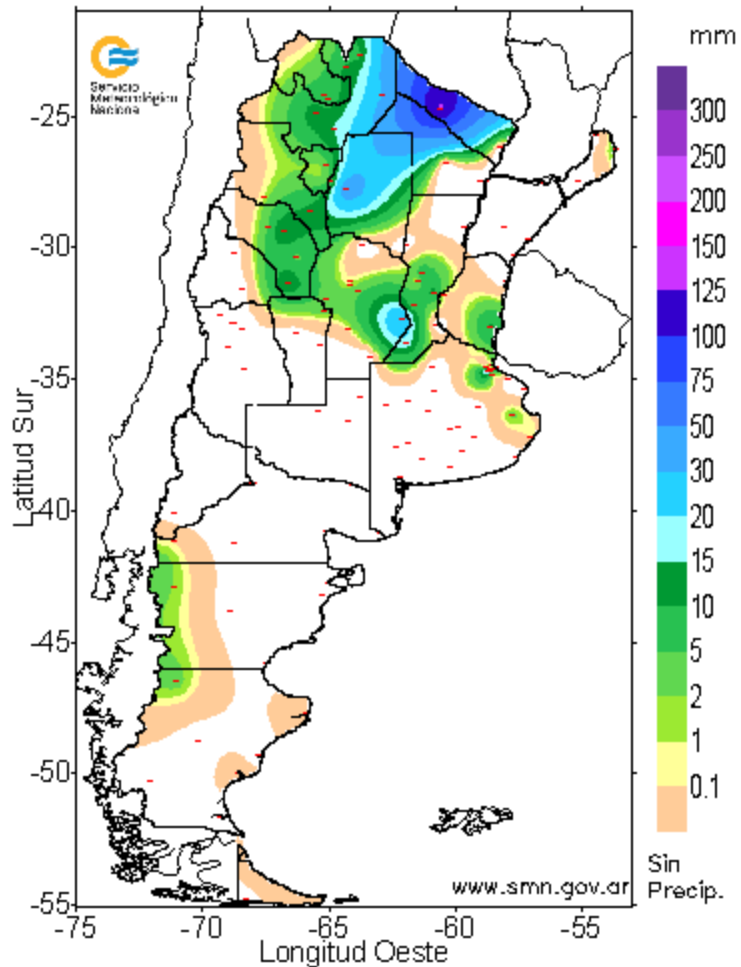


RAINFALL DEC 21

Servicio Meteorológico Nacional

PRECIPITACION (EN MILIMETROS) ACUMULADA EN 24 HORAS

Los valores corresponden al periodo comprendido entre las
9 hs. del 21/12/2017 y las 9 hs. del 22/12/2017

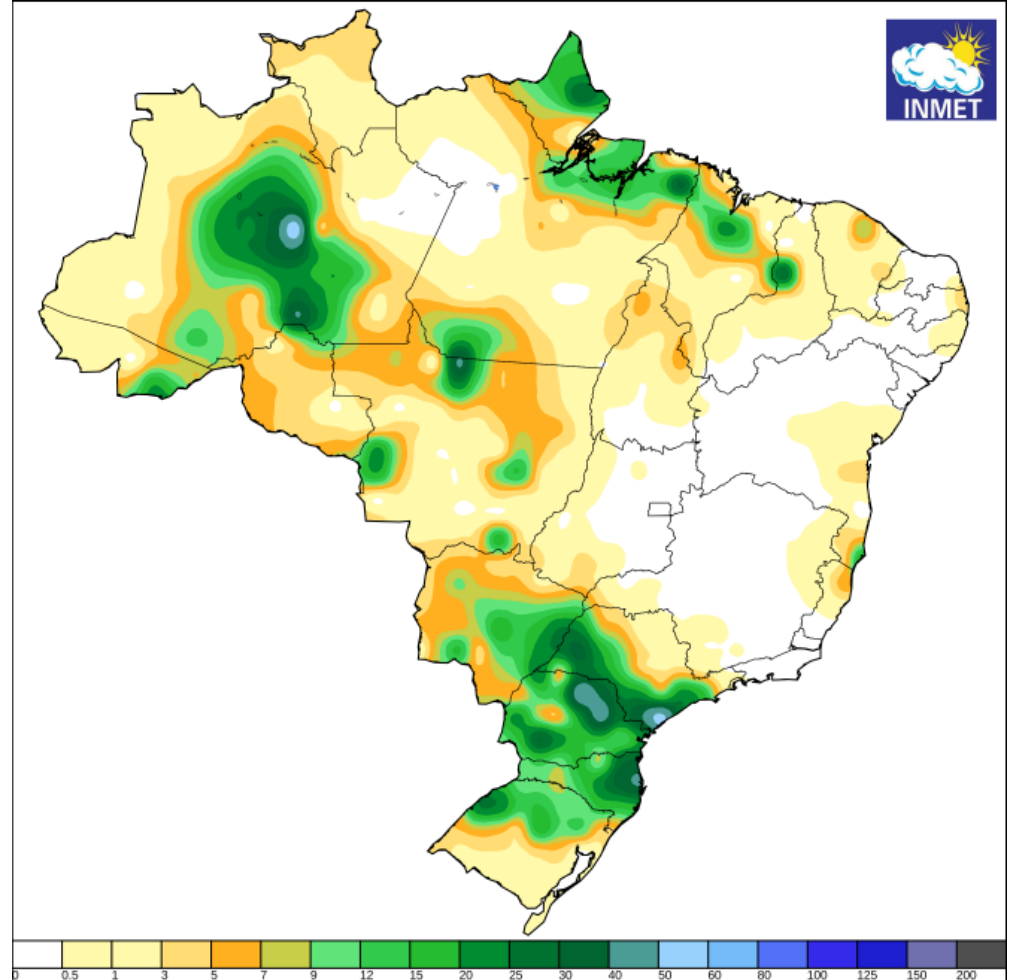


RAINFALL DEC 21=

Instituto Nacional de Meteorologia - INMET

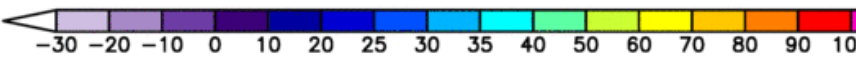
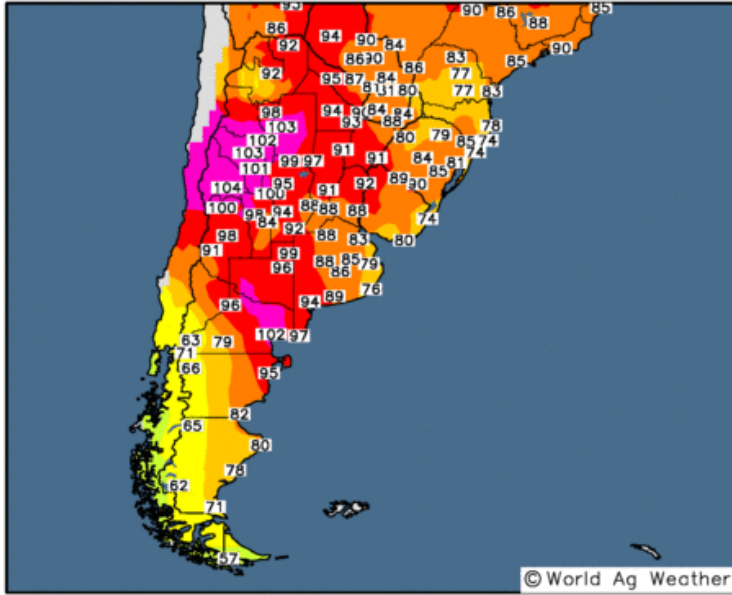
Precipitação Acumulada em 24 horas

Mapa do dia 21/12/2017



Observed Maximum Temperature (°F)

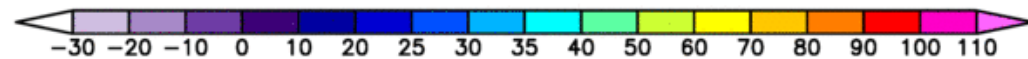
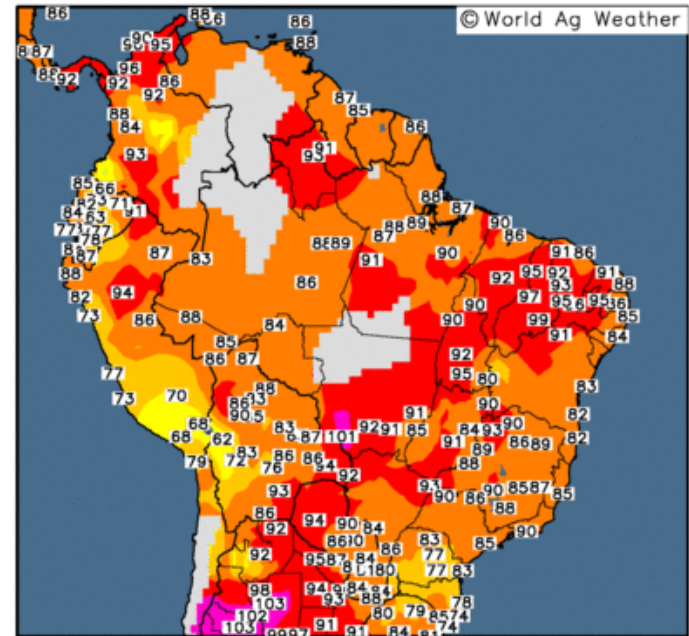
20 Dec 2017



Map updates daily by approximately 16:00 UTC

Observed Maximum Temperature (°F)

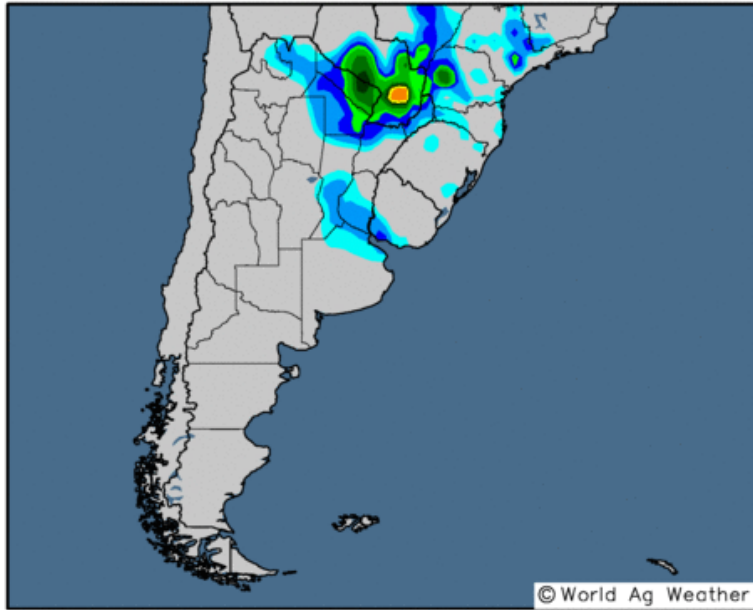
20 Dec 2017



Map updates daily by approximately 16:00 UTC

24-hour Precipitation Analysis

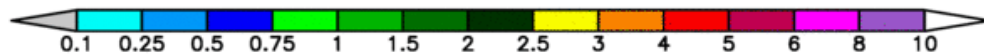
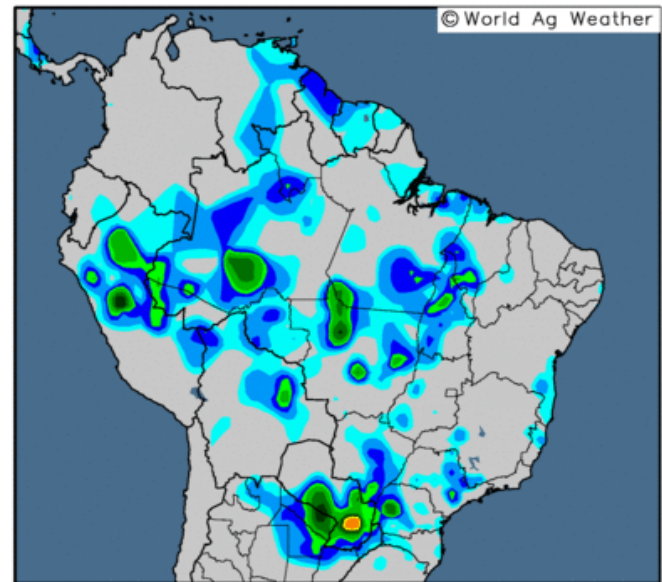
Observed precipitation (inches) through 12 UTC 20 Dec 2017



Map updates daily by approximately 20:30 UTC

24-hour Precipitation Analysis

Observed precipitation (inches) through 12 UTC 20 Dec 2017

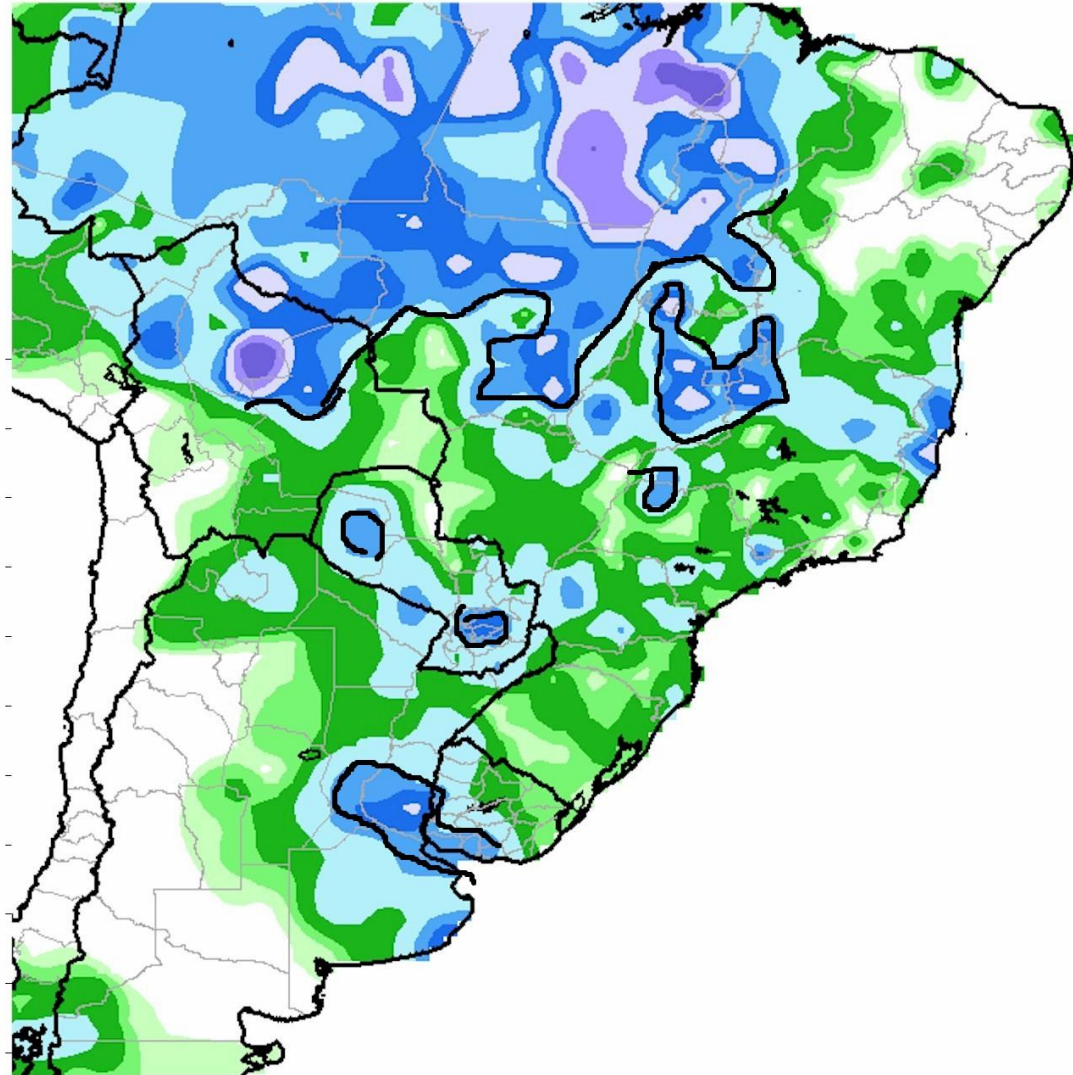


Map updates daily by approximately 20:30 UTC

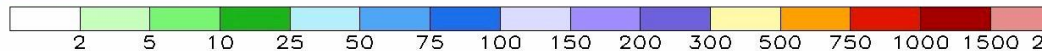
TOTAL RAINFALL LAST 7 DAYS

CPC Unified Gauge 7-Day Total Rainfall (mm)

Period: 14Dec2017 - 20Dec2017



**DRY MOST
AREAS OVER
PAST 7 DAYS—
black lines =
2"/50mm line
...only Mato
Grosso &
Tocatins saw
2"/50mm+**

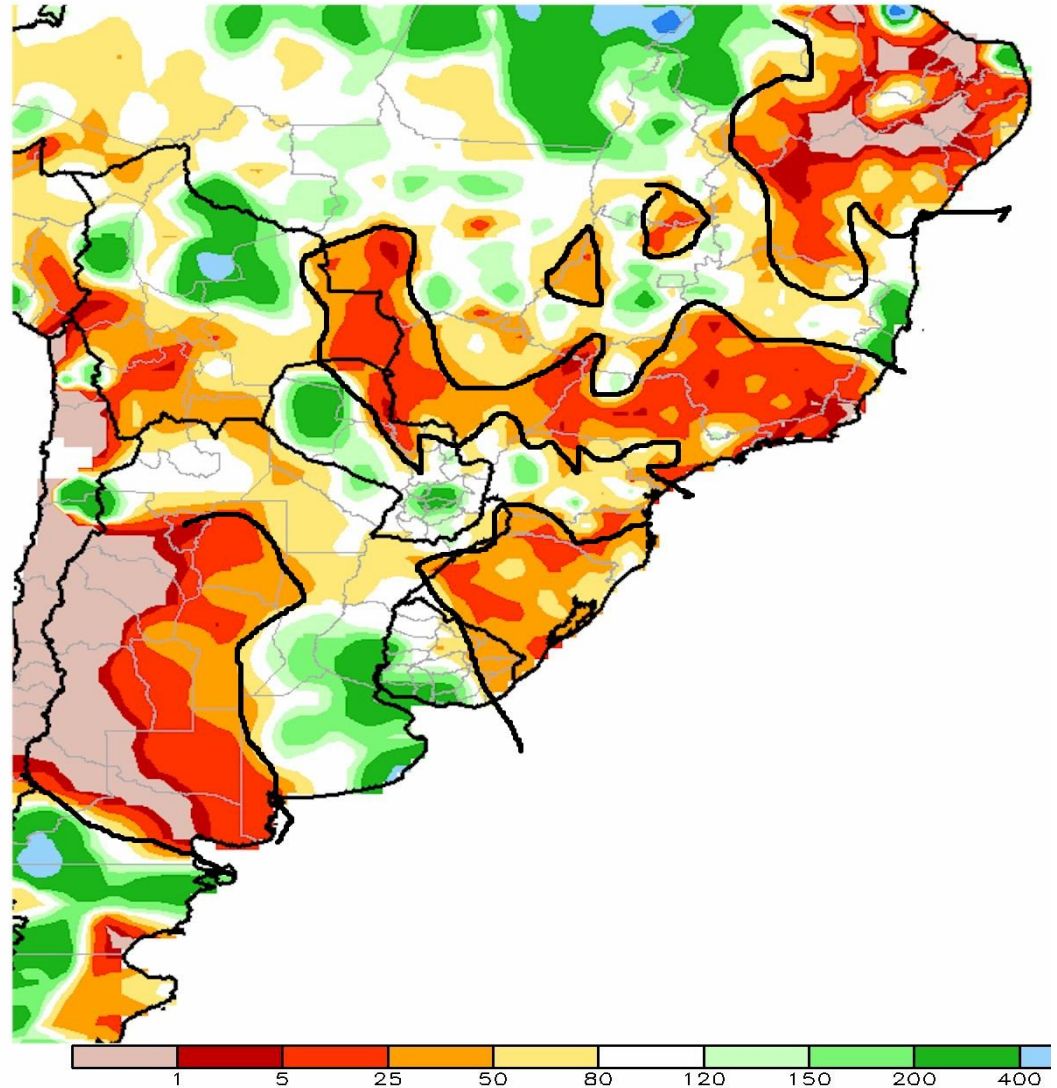


RAINFALL DEPARTURE FROM NORMAL PAST 7 DAYS

CPC Unified Gauge 7-Day Percent of Normal Rainfall (%)

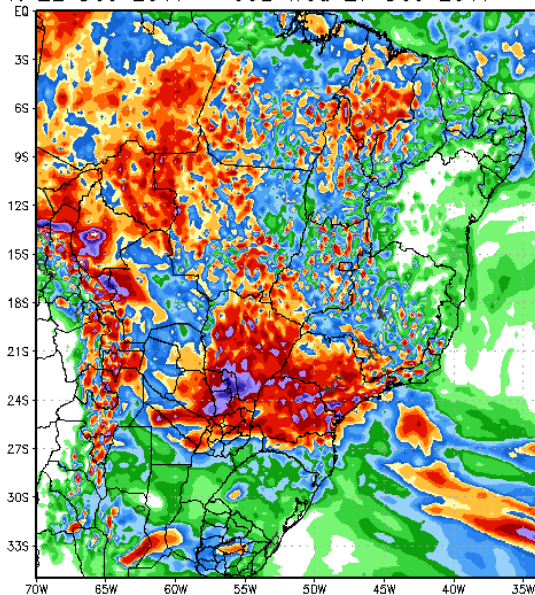
Period: 14Dec2017 - 20Dec2017

**DRY MOST
AREAS OVER
OF BRAZIL IN
PAST 7 DAYS—
black lines =
shows 5-25% of
Normal rainfall**



GFS / EURO MODELS NEXT 5 DAYS

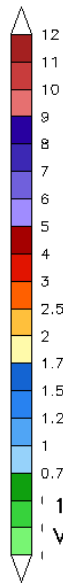
120 Hour Total Precipitation (in)
Valid: 00z Fri 22 Dec 2017 - 00z Wed 27 Dec 2017



Max: 13.8 in
Min: 0.0 in

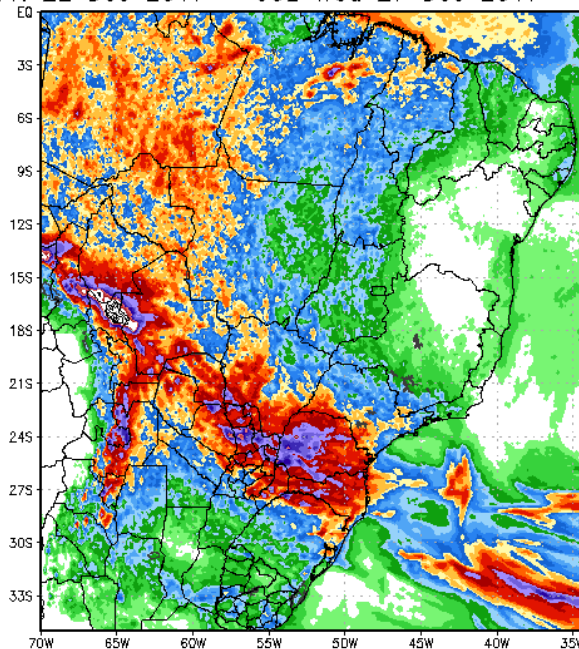
StormVistaWxModels.com

GFS-MAXRES
Hour: 0 - 120



Init: 00z Fri 22 Dec 2017-12-22-0

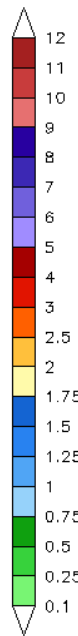
120 Hour Total Precipitation (in)
Valid: 00z Fri 22 Dec 2017 - 00z Wed 27 Dec 2017



Max: 37.2 in
Min: 0.0 in

StormVistaWxModels.com

ECMWF-MAXRES
Hour: 0 - 120

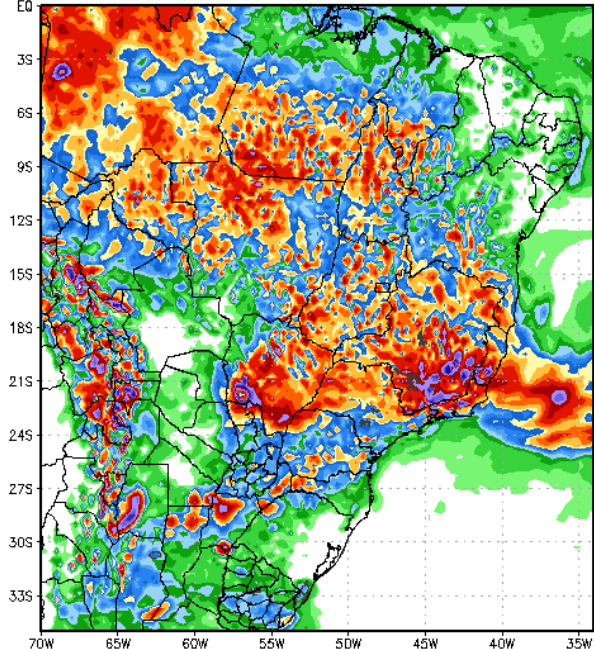


Init: 00z Fri 22 Dec 2017-12-22-06:21

GFS / EUROPEAN MODELS 6-10 DAY

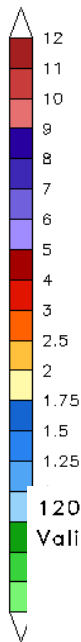
120 Hour Total Precipitation (in)

Valid: 00z Wed 27 Dec 2017 - 00z Mon 01 Jan 2018



GFS-MAXRES

Hour: 120 - 240



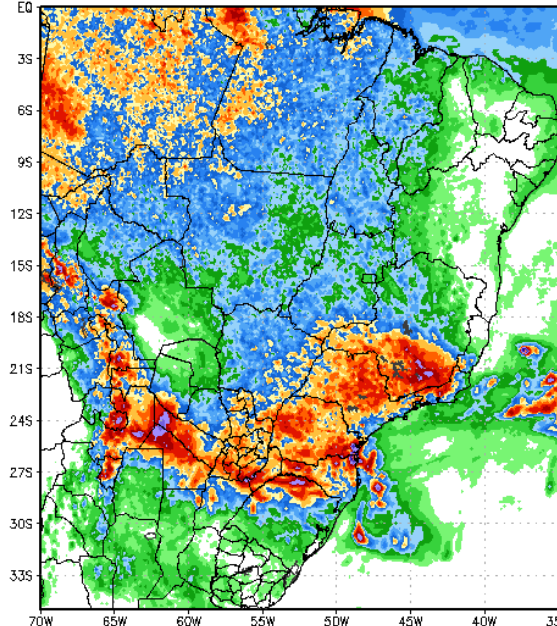
Max: 14.7 in
Min: 0.0 in

StormVistaWxModels.com

Init: 00z Fri 22 Dec 2017-12-22

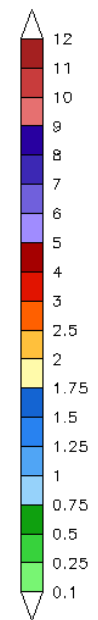
120 Hour Total Precipitation (in)

Valid: 00z Wed 27 Dec 2017 - 00z Mon 01 Jan 2018



ECMWF-MAXRES

Hour: 120 - 240



Max: 10.8 in
Min: -0.0 in

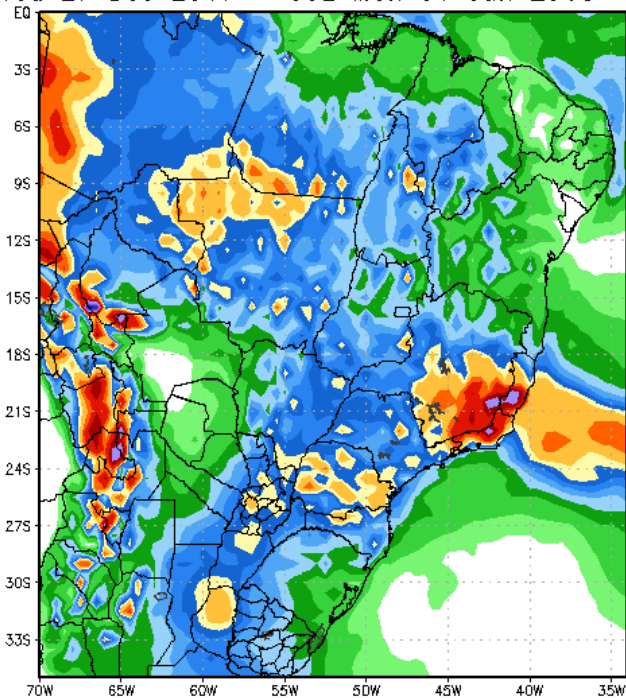
StormVistaWxModels.com

Init: 00z Fri 22 Dec 2017-12-22-06:55

GFS / EUROPEAN MODELS 6-10 ENSEMBLES

120 Hour Total Precipitation (in)

Valid: 00z Wed 27 Dec 2017 - 00z Mon 01 Jan 2018

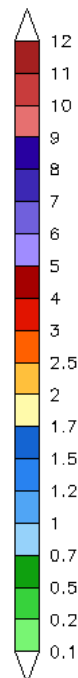


Max: 8.3 in
Min: 0.0 in

StormVistaWxModels.com

GFS-ENS-MAXRES

Hour: 120 - 240



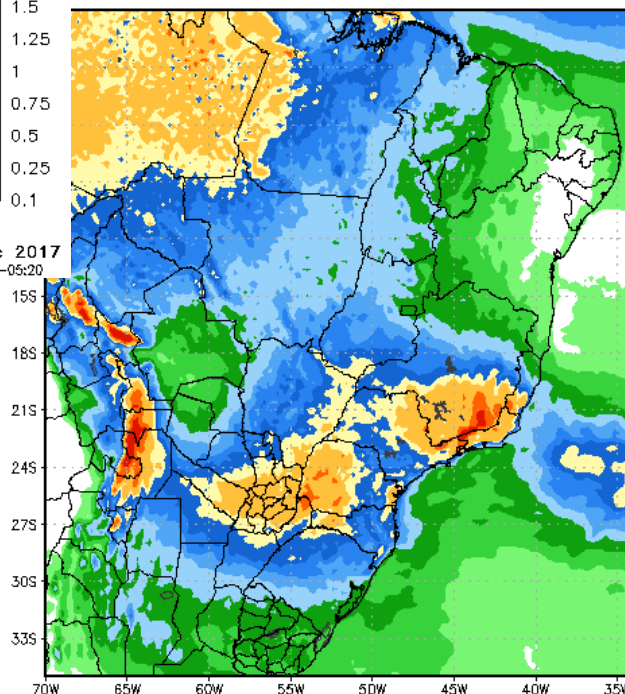
Init: 00z Fri 22 Dec 2017
2017-12-22-05:20

Precipitation (in)

27 Dec 2017 - 00z Mon 01 Jan 2018

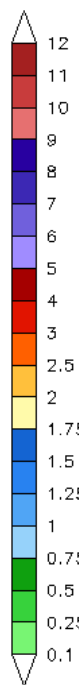
ECMWF-EPS-MAXRES

Hour: 120 - 240



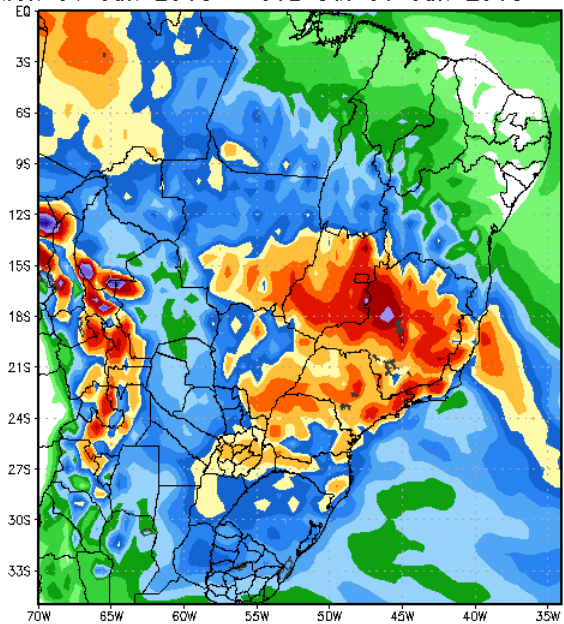
Max: 4.2 in
Min: 0.0 in

StormVistaWxModels.com



Init: 00z Fri 22 Dec 2017
2017-12-22-07:41

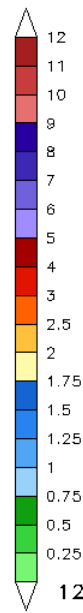
120 Hour Total Precipitation (in)
Valid: 00z Mon 01 Jan 2018 - 00z Sat 06 Jan 2018



Max: 8.5 in
Min: 0.0 in

StormVistaWxModels.com

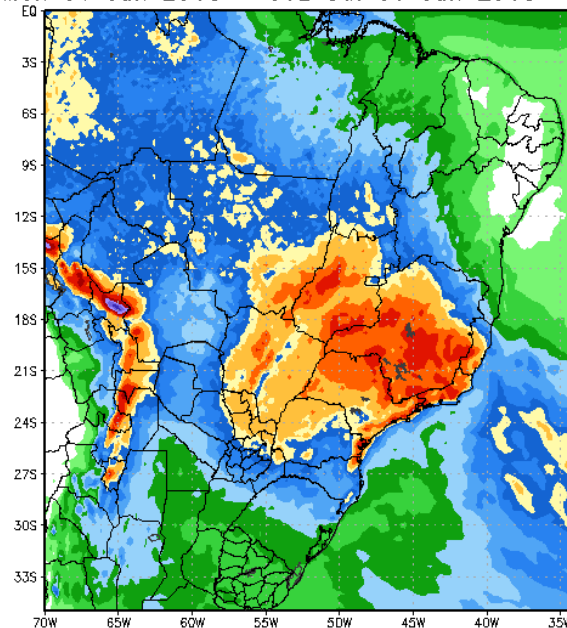
GFS-ENS-MAXRES
Hour: 240 - 360



Init: 00z Fri 22 Dec 2017-12-22-(

120 Hour Total Precipitation (in)
Valid: 00z Mon 01 Jan 2018 - 00z Sat 06 Jan 2018

ECMWF-EPS-MAXRES
Hour: 240 - 360



Max: 7.3 in
Min: -0.0 in

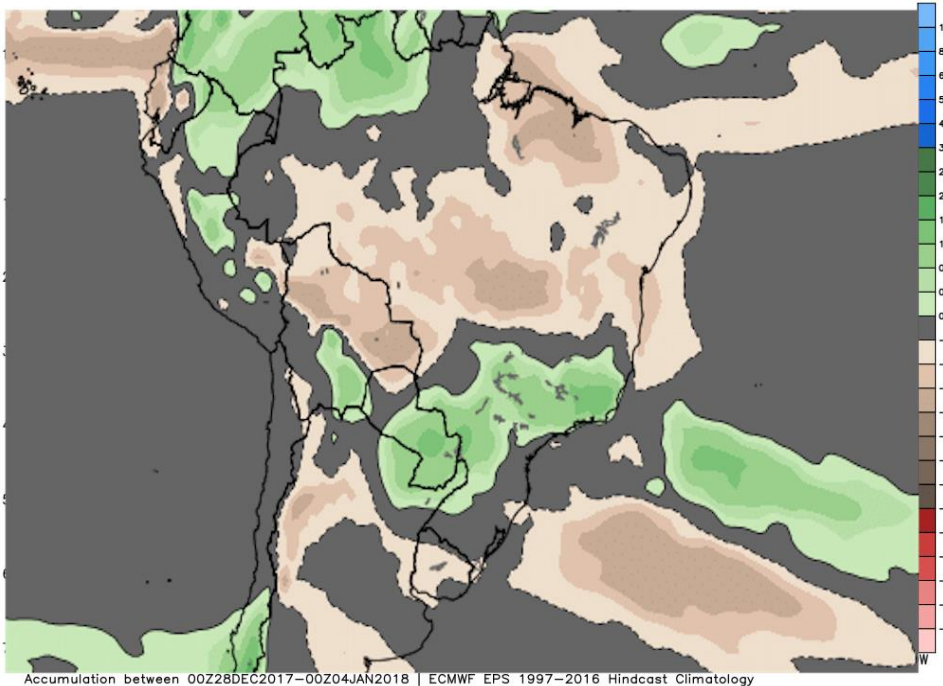
StormVistaWxModels.com

Init: 00z Fri 22 Dec 2017-12-22-08:05

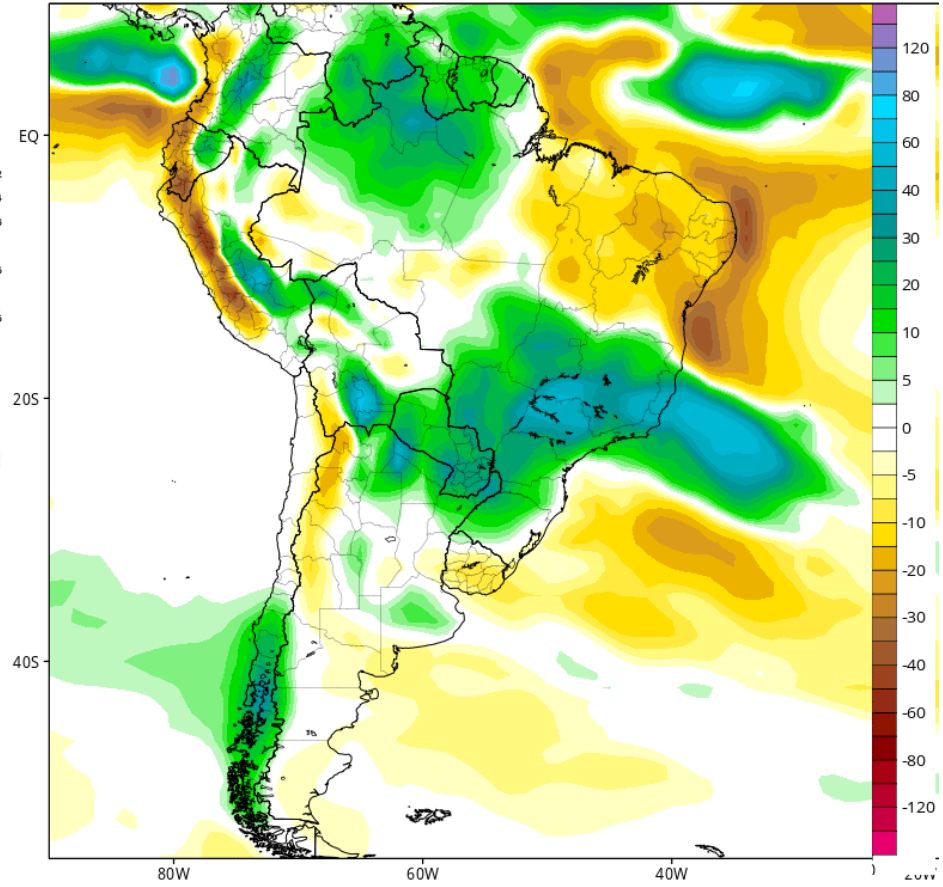
WEEK 2... DEC 29-JAN 4 EURO LEFT CFS/ RIGHT EURO has central ARG slightly dry CFS show "normal" rains for central ARG .. EURO ET east Parg SE Brazil CFS agrees with that

ECMWF EPS Ensemble Mean 7-day Avg Precipitation Anomaly [inch]
 Init: 00Z21DEC2017 -- [168] hr --> Valid on Thu 00Z04JAN2018 Day 0 - Day 7

Min|Max Anom: -2.7 | 5.2 inch



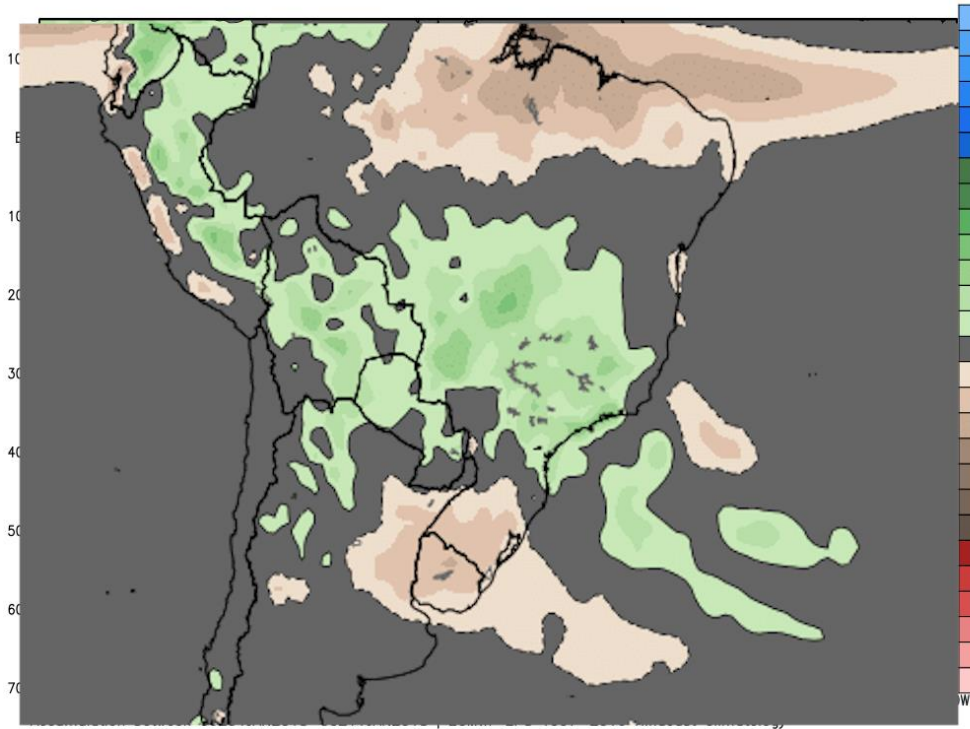
CFSv2 Accumulated Precip. Anomaly (mm) from 00z29Dec2017 to 00z05Jan2018 (Days 8-14)
 Average of last 48 forecasts (12 runs x 4 members)
 Init: 06z Dec 19 2017 through 00z Dec 22 2017



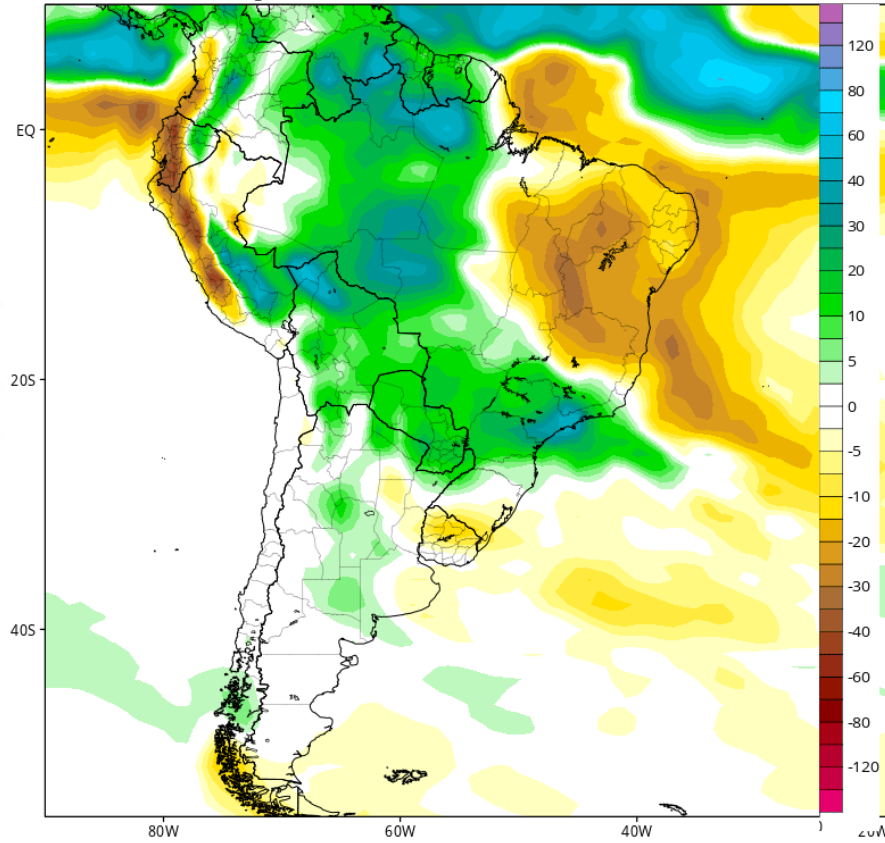
WEEK 3 ... JAN 5=11 EURO LEFT CFS/ RIGHT

EURO still has central ARG into se Brazil dry - CFS
central ARG near Normal --SE & sw Brazil WET.. **EURO**
is wetter over western central & east central Brazil

ECMWF EPS Ensemble Mean 7-day Avg Precipitation Anomaly [inch]
Init: 00Z21DEC2017 -- [252] hr --> Valid on Thu 00Z11JAN2018 Day 3.5 - Day 10.5
Min|Max Anom: -2.9 | 3.1 inch



CFSv2 Accumulated Precip. Anomaly (mm) from 00z05Jan2018 to 00z12Jan2018 (Days 15-21)
Average of last 48 forecasts (12 runs x 4 members)
Init: 06z Dec 19 2017 through 00z Dec 22 2017

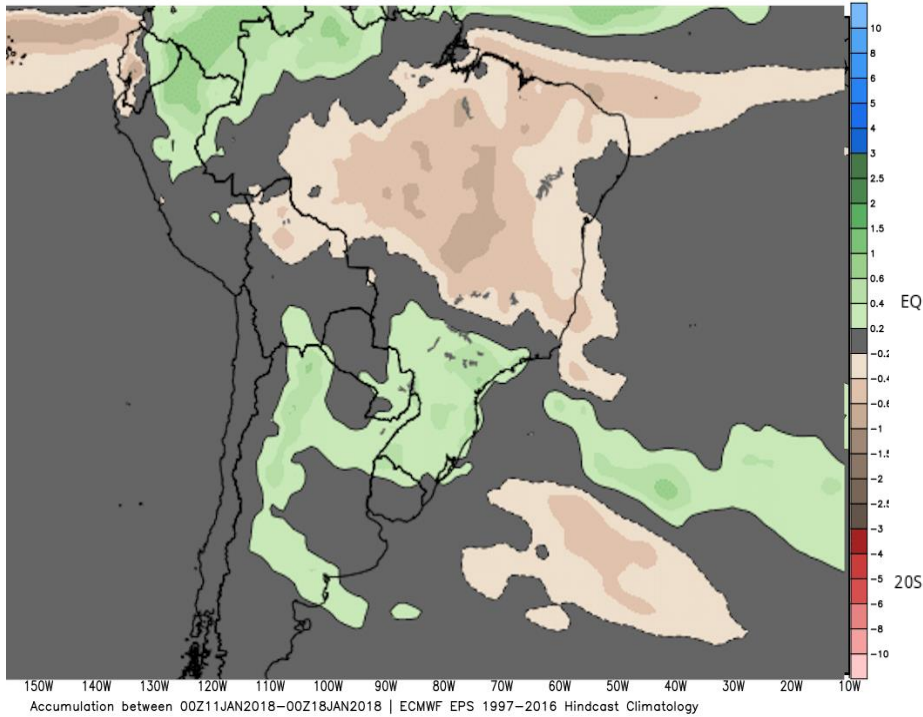


WEEK 4 ... JAN 12-18 EURO LEFT CFS/ RIGHT

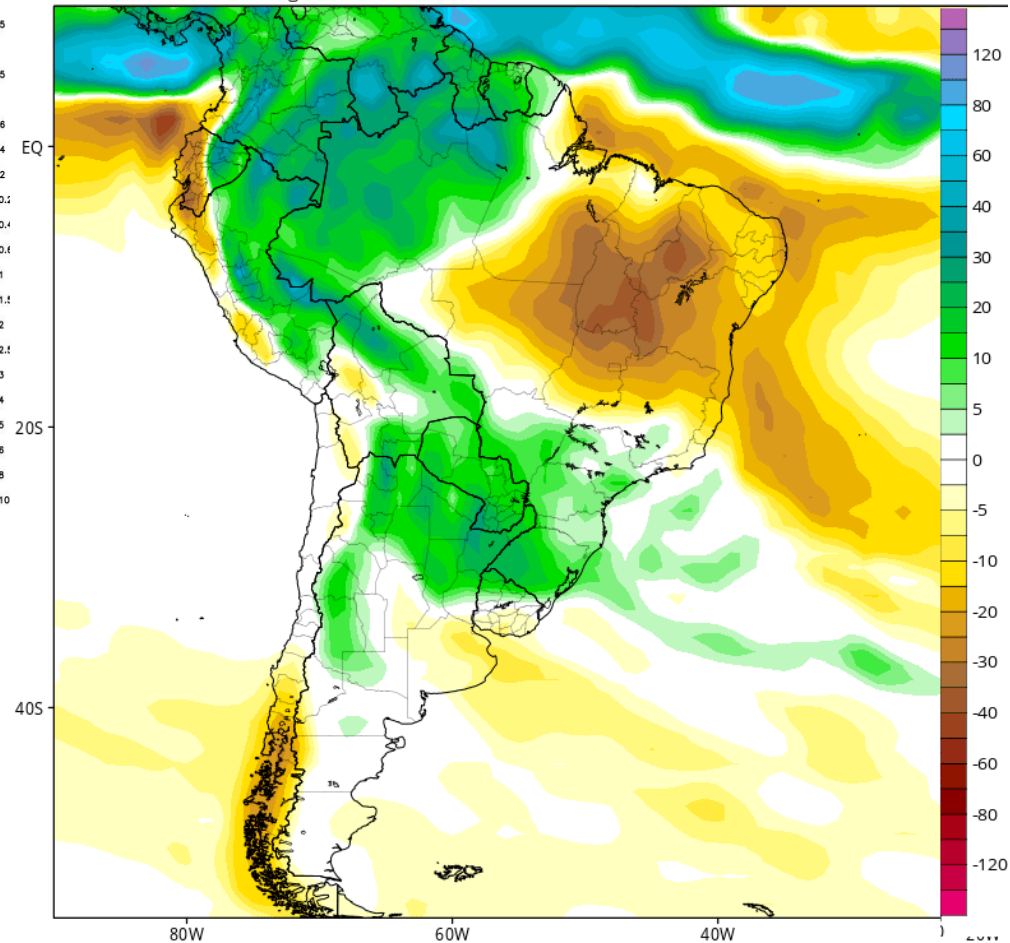
central & northern ARG = WET as is SE Brazil WET

DRY over central/ east central Brazil

ECMWF EPS Ensemble Mean 7-day Avg Precipitation Anomaly [inch] Min|Max Anom: -2.0 | 3.0 inch
Init: 00Z21DEC2017 -- [336] hr --> Valid on Thu 00Z18JAN2018 Day 7 - Day 14



CFSv2 Accumulated Precip. Anomaly (mm) from 00z12Jan2018 to 00z19Jan2018 (Days 22-28)
Average of last 48 forecasts (12 runs x 4 members)
Init: 06z Dec 19 2017 through 00z Dec 22 2017



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

