

Weather Forecasting For Traders, Investors, and Businesses

US HRWW / S.AMERICA GRAIN WEATHER ISSUES

as of FRIDAY 19 JANUARY 2018



LOCATED in Richmond VA

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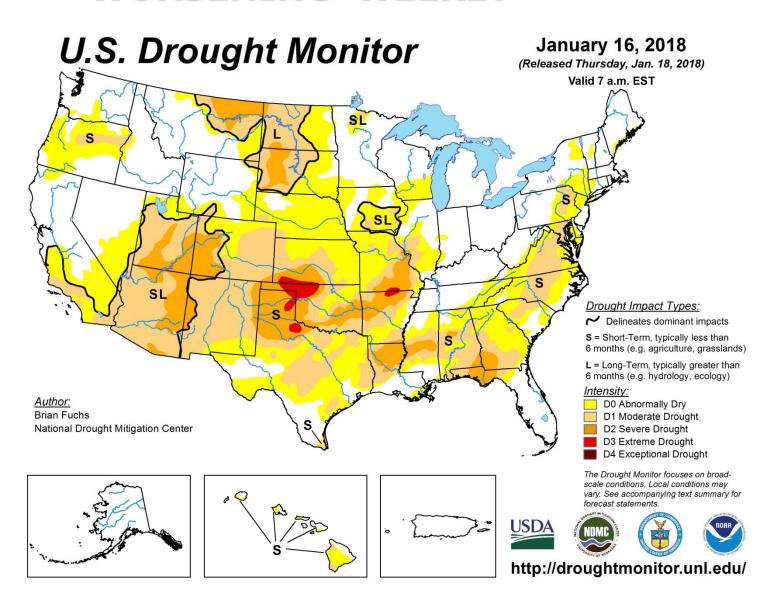
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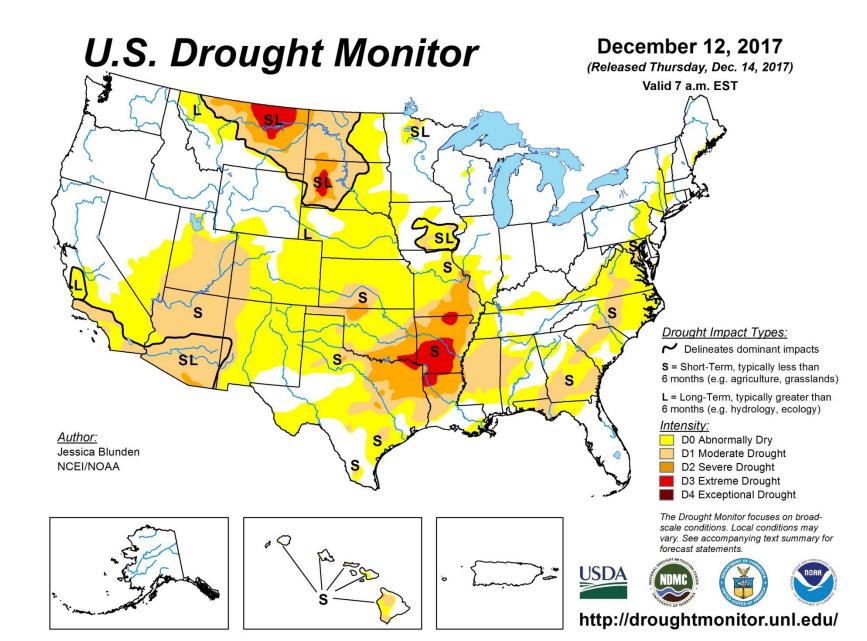
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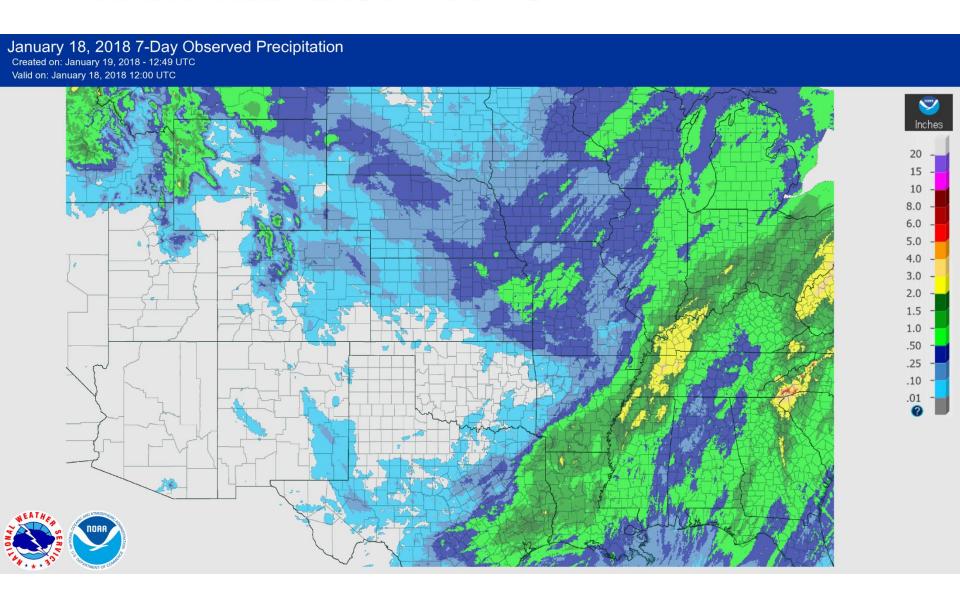
DROUGHT CONDITIONS OVER MOST OF PLAINS / DELTA WORSENING WEEKLY



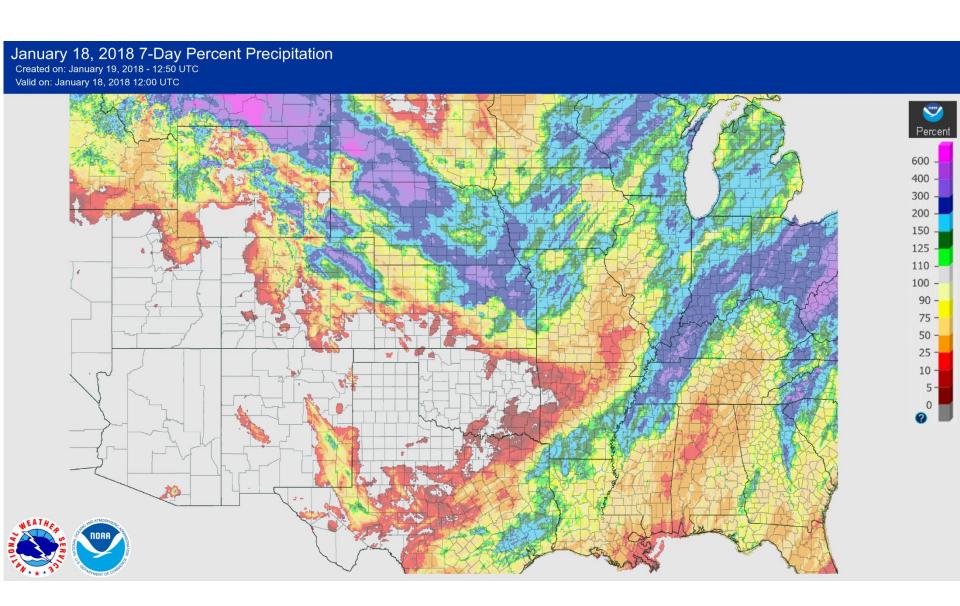
US DROUGHT CONDITIONS 12/12/17



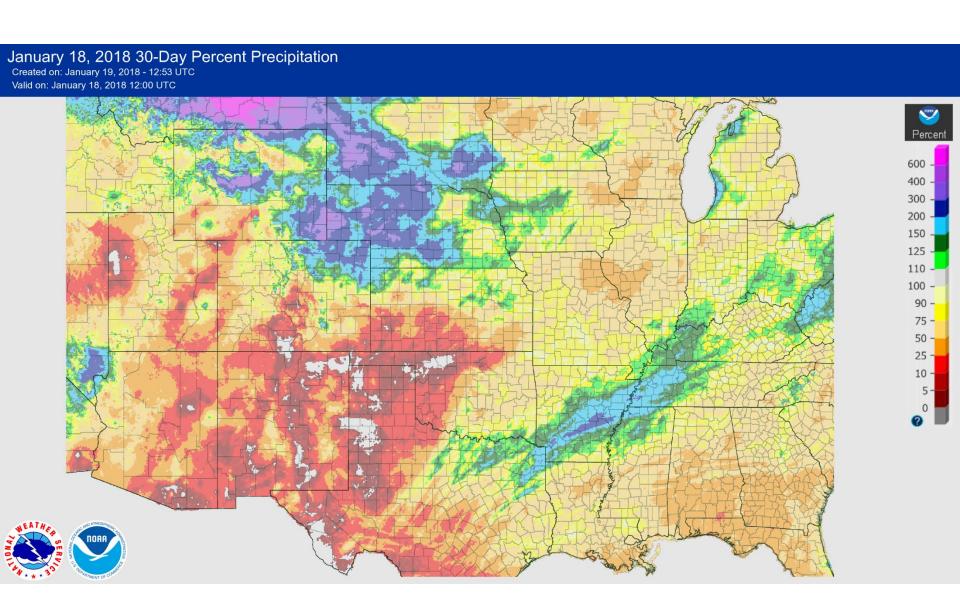
RAINFALL LAST 7 DAYS



RAINFALL ANOMALIES PAST 7 DAYS

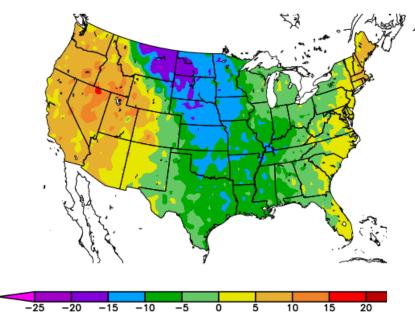


RAINFALL ANOMALIES PAST 30 DAYS



TEMPS FALL PAST 7/30 DAYS—

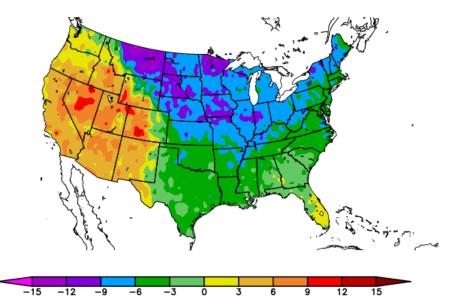
Departure from Normal Temperature (F) 1/11/2018 - 1/17/2018



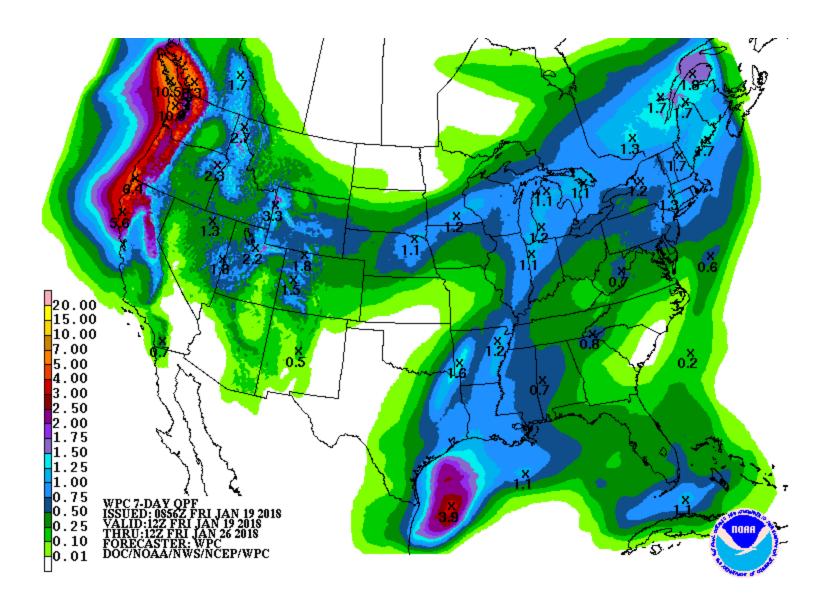
Generated 1/18/2018 at HPRCC using provisional data.

NOAA Reg

Departure from Normal Temperature (F) 12/19/2017 - 1/17/2018



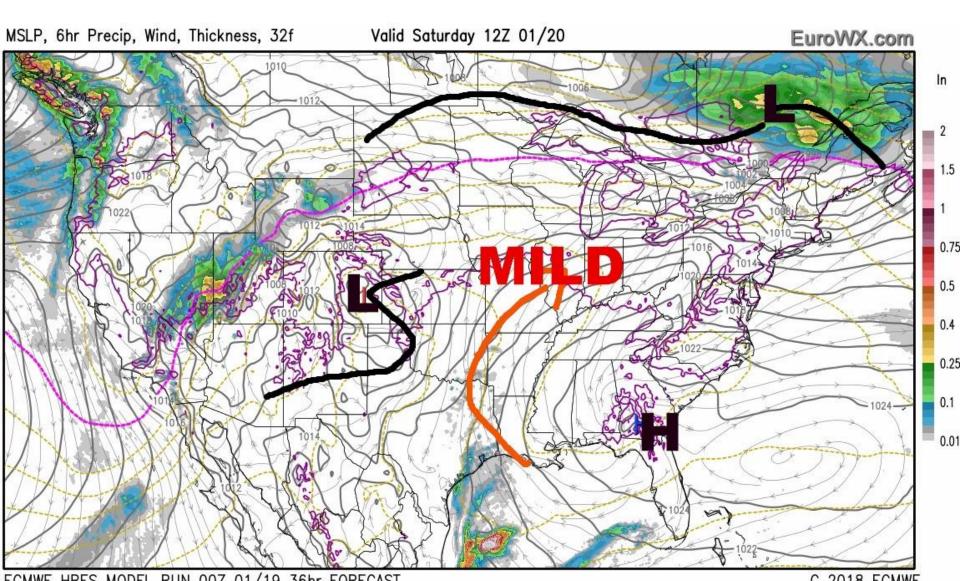
NWS OFFICIAL RAINFALL NEXT 7 DAYS



CURRENT UPPER AIR PATTERN.. Now its is the PACIFIC JET 'S TURN

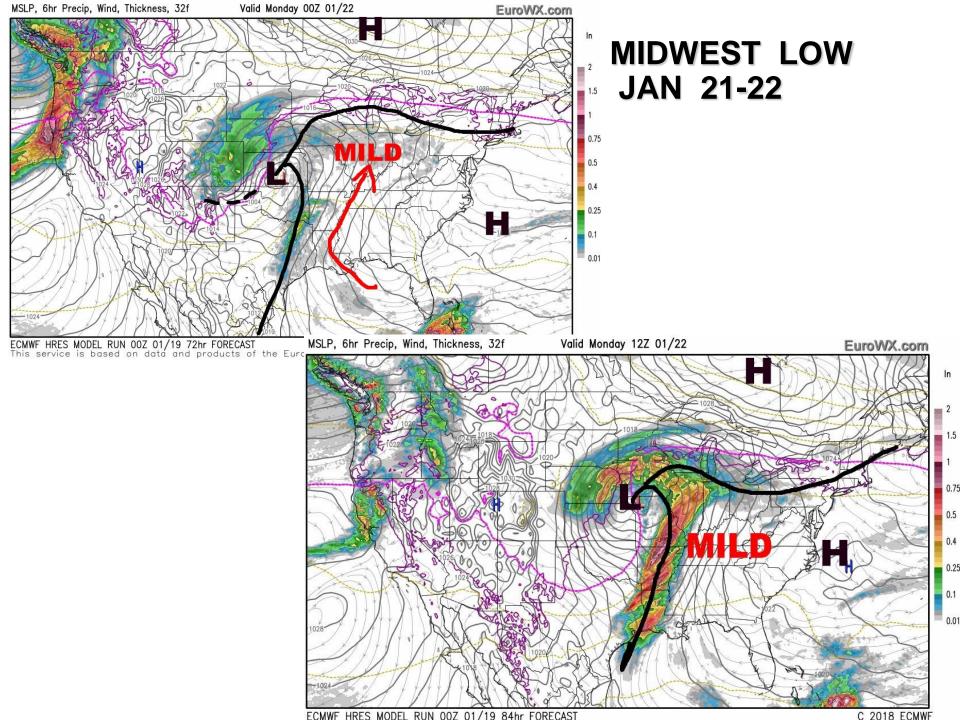
500 mb Height **ECMWF** Valid: 06z Sat 20 Jan 2018 Hour: 42

SURFACE MAP SATURDAY ...MILD PATTERN UNDER WAY

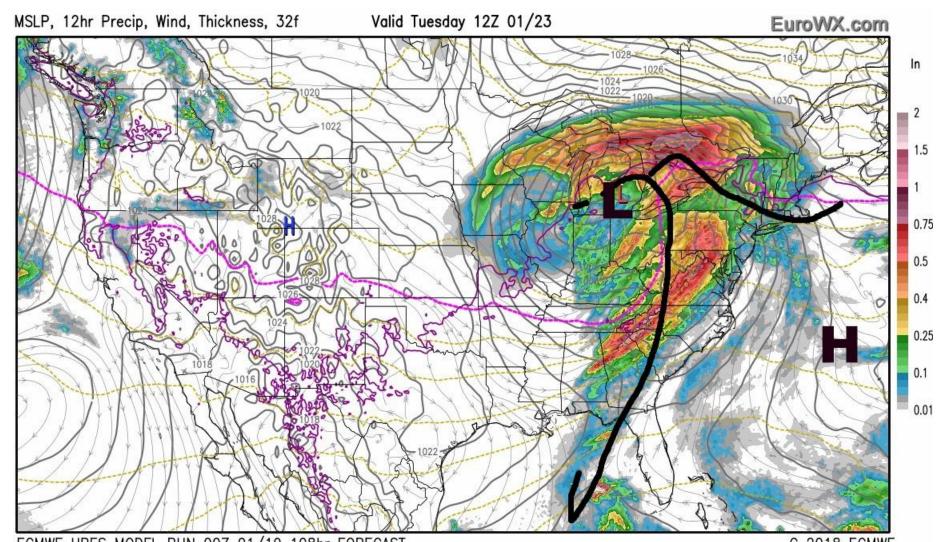


ECMWF HRES MODEL RUN 00Z 01/19 36hr FORECAST

This service is based on data and products of the European Center for Medium—range Weather Forecasts.

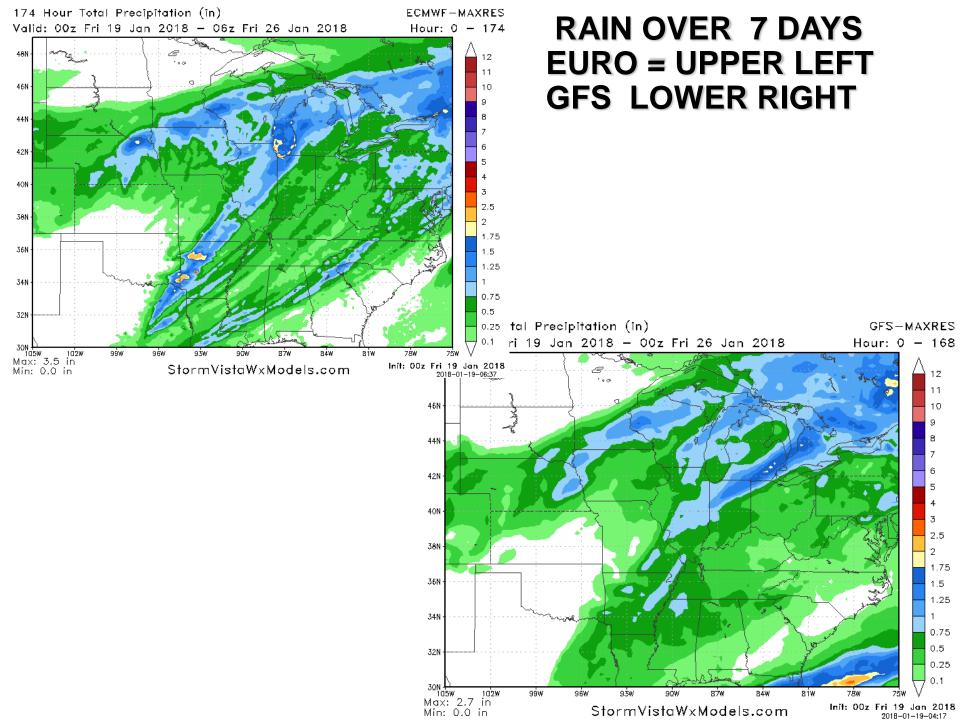


GOOD RAINS JAN 23 GREAT LAKES EACH EAST COAST SOME SNOW IN WCB

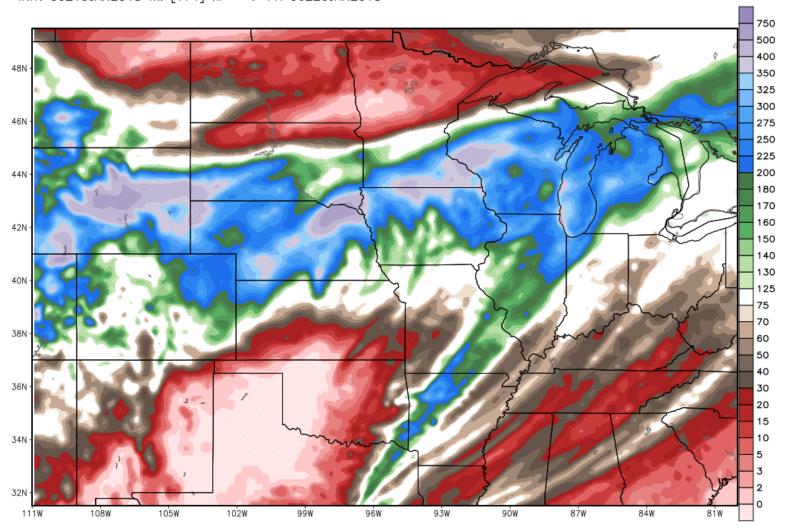


ECMWF HRES MODEL RUN 00Z 01/19 108hr FORECAST

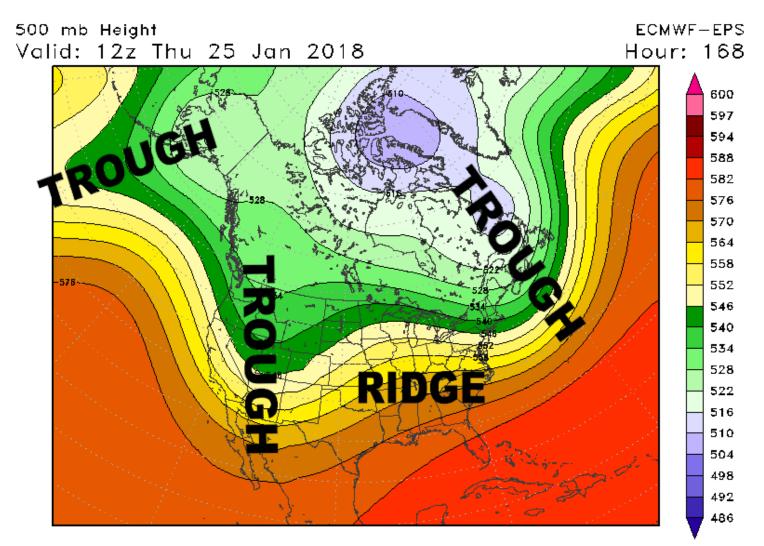
This service is based on data and products of the European Center for Medium-range Weather Forecasts.

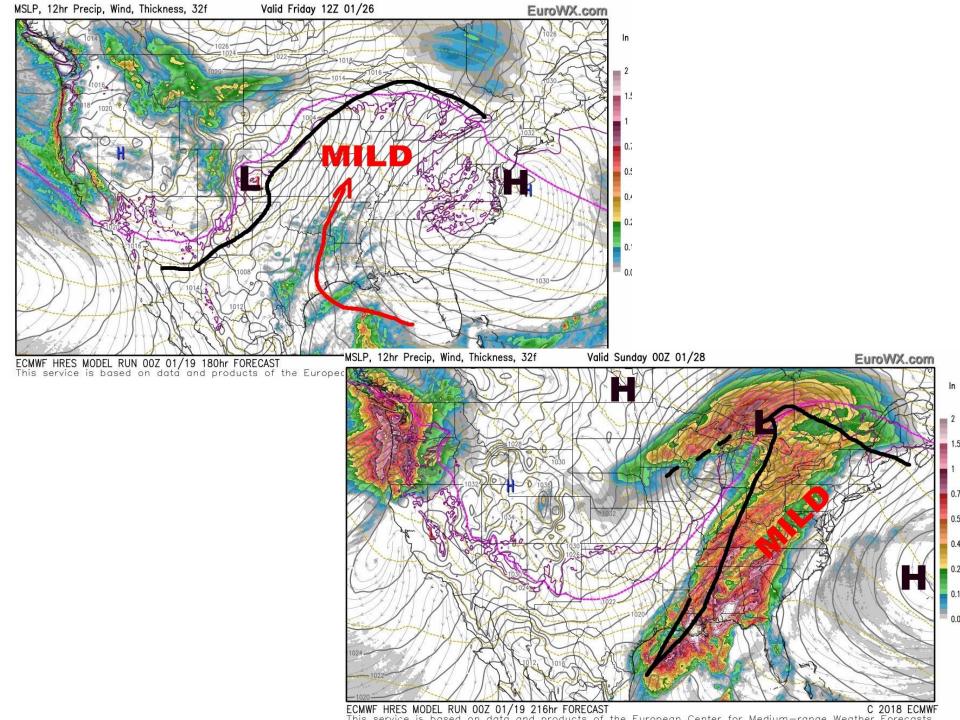


ECMWF 7-day Precip Anomaly [% of normal] between 06Z19JAN2018 - 06Z26JAN2018 INIT: 00Z19JAN2018 fx: [174] hr - Fri 06Z26JAN2018

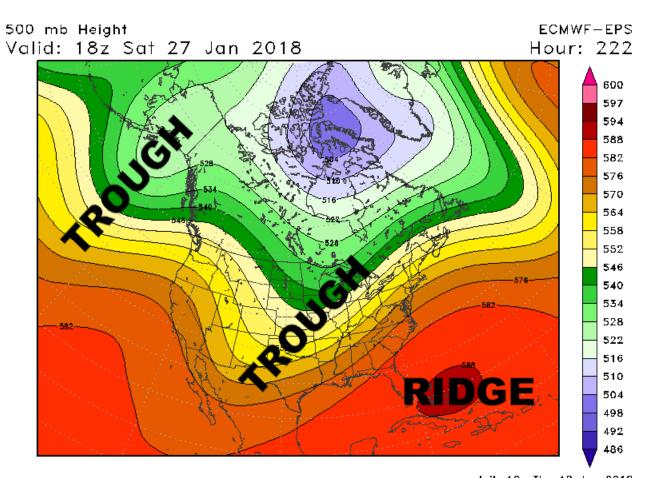


2 BIG TROUGHS COMING IN FROM THE PACIFIC.... GENERALLY MILD PATTERN OVER PLAINS/ MIDWEST / EASTERN US

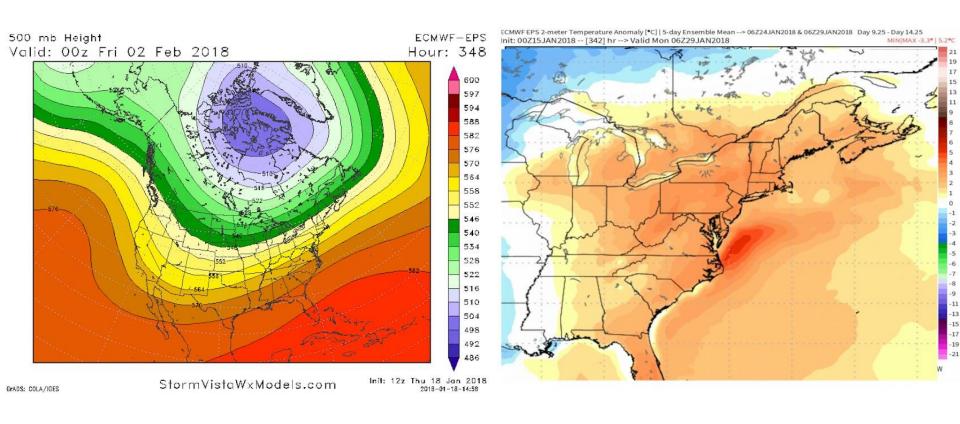


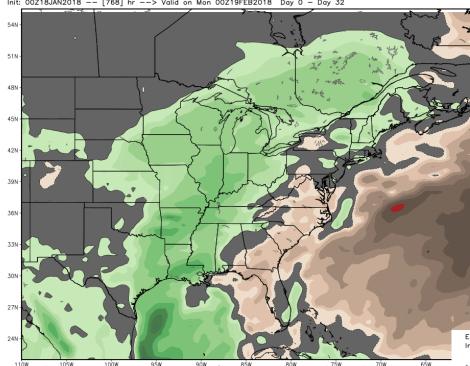


2 BIG TROUGHS ADVANCING ACROSS THE EASTERN PACIFIC AND WESTERN US



PATTERN BEGINS TO CHANGE ...RIDGE FORMS OVER EASTERN PACIFIC ... TROUGH AND COLDER AIR MOVES INTO PLAINS... EASTERN US STILL MILD MIDWEST= WET

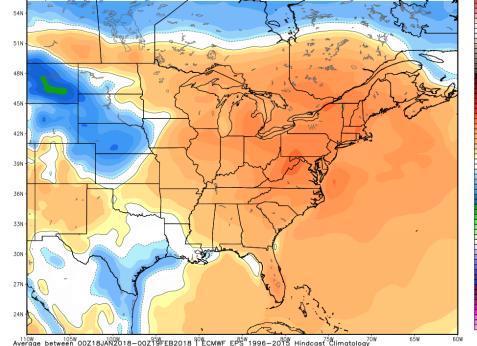




Accumulation between 00Z18JAN2018-00Z19FEB2018 | ECMWF EPS 1996-2015 Hindcast Climatology

EURO WEEKLIES ---NEXT 32 DAYS WET OVER MIDWEST DELTA **EASTERN LOWER** PLAINS MILD OVER **PLAINS/ MIDWEST EASTERN COAST**

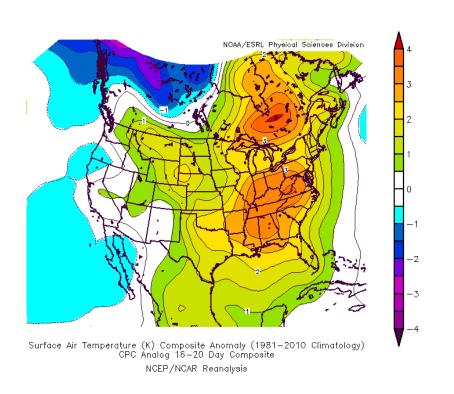
ECMWF EPS Ensemble Mean 32-day Avg 2m Temperature Anomaly [°C] Min|Max: -3.5° | 3.4°C Init: 00Z18JAN2018 -- [768] hr --> Valid on Mon 00Z19FEB2018 Day 0 - Day 32

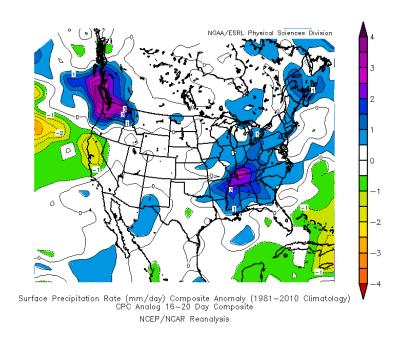


The ROLLOVER model takes top 10 matches of the 11-15 day pattern and ASSUMES the pattern continues into the 16-20 day / FEB 3 - 7

TEMP ANOMALIES

/ PRECIP ANOMALIES

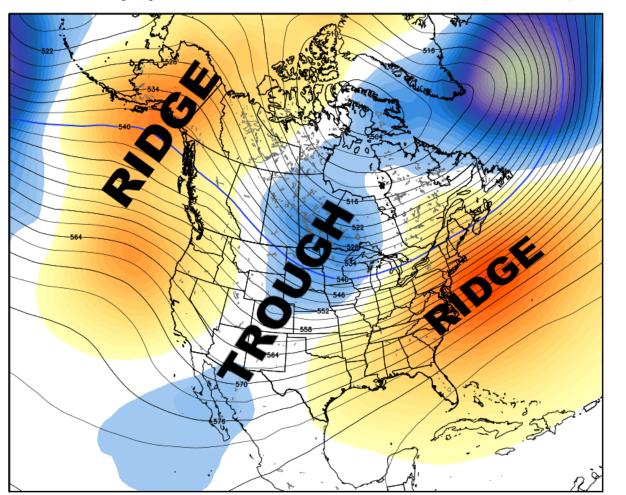


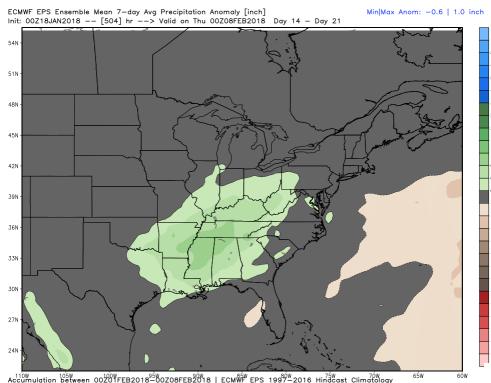


PATTERN BEGINS TO CHANGE ...RIDGE FORMS OVER EASTERN PACIFIC ... TROUGH AND COLDER AIR MOVES INTO PLAINS... EASTERN US STILL MILD MIDWEST= WET

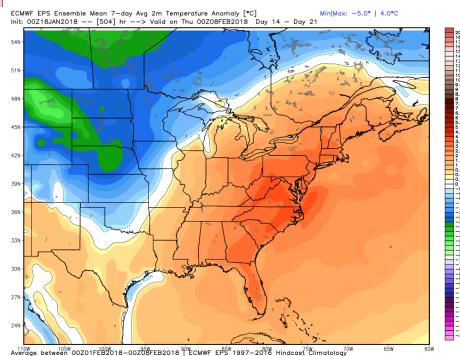
ECMWF EPS Monthly Ensemble Mean 500 hPa Geopotential Height [dm] & Anomaly [m]
INIT: 00Z18JAN2018 fx: [552] hr --> Sat 00Z10FEB2018 Min|Max: -128.9 | 105.8 m

255 245 235 225 215 205 195 185 175 165 155 145 135 125 115 105 95 85 75 55 45 35 25 15 -20 -30 -40 -50 -60 -70 -80 -100 -110 -120 -130-140-150-160 -170-180-190 -200 -210 -220 -230 -240-250-260

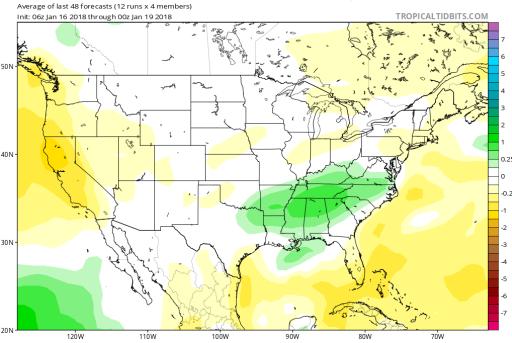




EURO WEEKLIES FEB 2-8... WET OVER DELTA ECB DEEP SOUTH ... MILD OF THE MISSISSIPPI RIVER

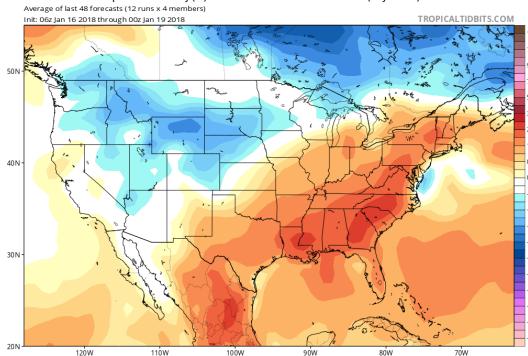


CFSv2 Accumulated Precip. Anomaly (in) from 00z02Feb2018 to 00z09Feb2018 (Days 15-21)



CFS WEEKLIES FEB 2-8... WET OVER DEEP SOUTH BUT DRY OVER MIDWEST-- MILD DEEP SOUTH ECB

CFSv2 Mean 2m Temperature Anomaly (°C) from 00z02Feb2018 to 00z09Feb2018 (Days 15-21)



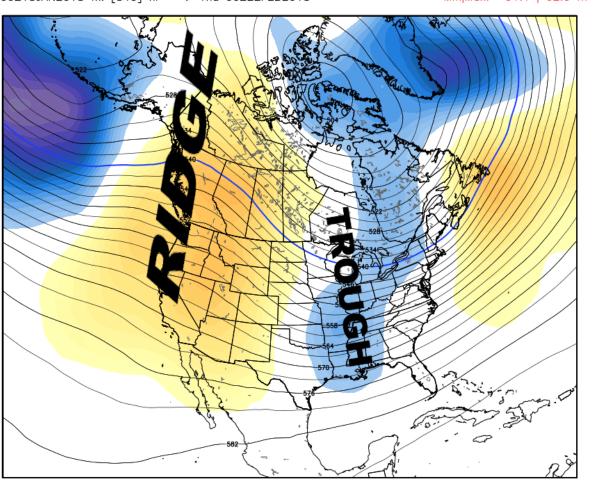
COLD AGAIN FEB 20-22... STORMY FOR MIDWEST / EAST COAST

-20 -30 -40

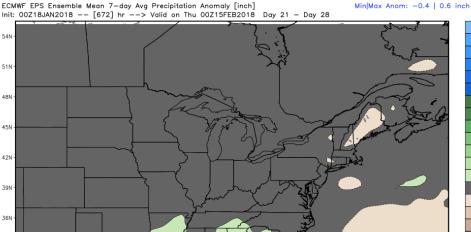
-70 -80 -90 -110 -120 -130-140-150 -170-180 -190 -200 -210 -220 -230 -240 -250

ECMWF EPS Monthly Ensemble Mean 500 hPa Geopotential Height [dm] & Anomaly [m]

INIT: 00Z18JAN2018 fx: [840] hr --> Thu 00Z22FEB2018 Min|Max: -91.1 | 62.9 m



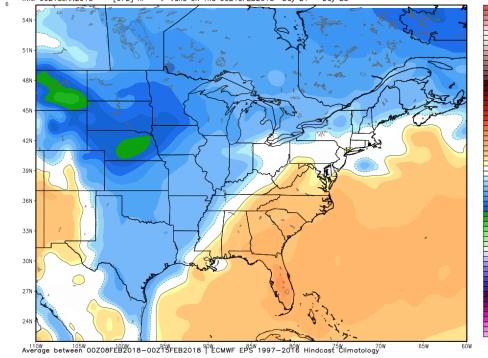




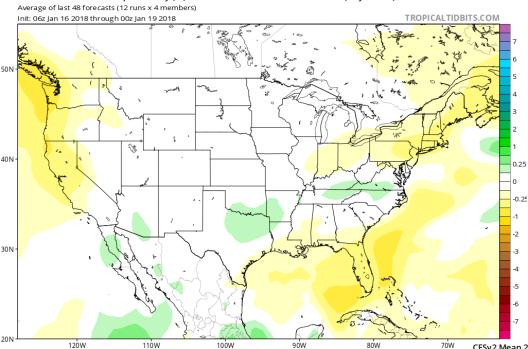
Accumulation between 00208FEB2018-00215FEB2018 | ECM8F EPS 1997-2016 Hindwast Climatory

EURO WEEKLIES FEB 9-15... WET OVER **DELTA DEEP SOUTH ... COLDER OVER PLAINS MIDWEST**

ECMWF EPS Ensemble Mean 7-day Avg 2m Temperature Anomaly [°C] Min|Max: -4.0° | 2.3°C Init: 00Z18JAN2018 -- [672] hr --> Valid on Thu 00Z15FEB2018 Day 21 - Day 28

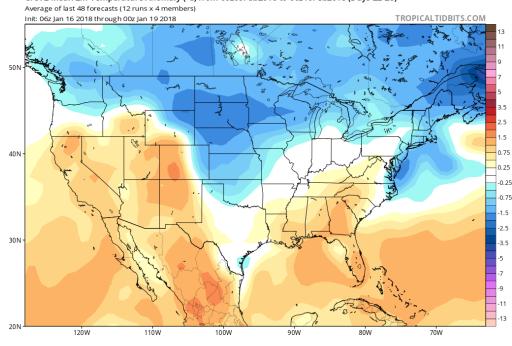


CFSv2 Accumulated Precip. Anomaly (in) from 00z09Feb2018 to 00z16Feb2018 (Days 22-28)

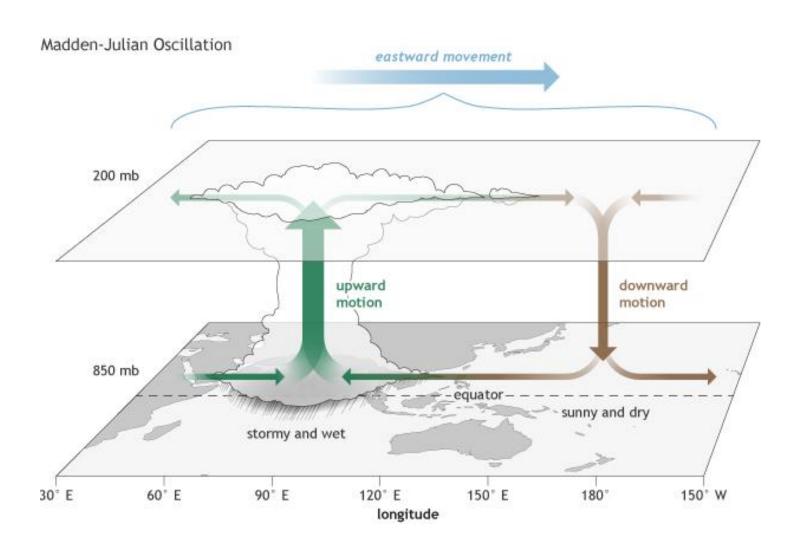


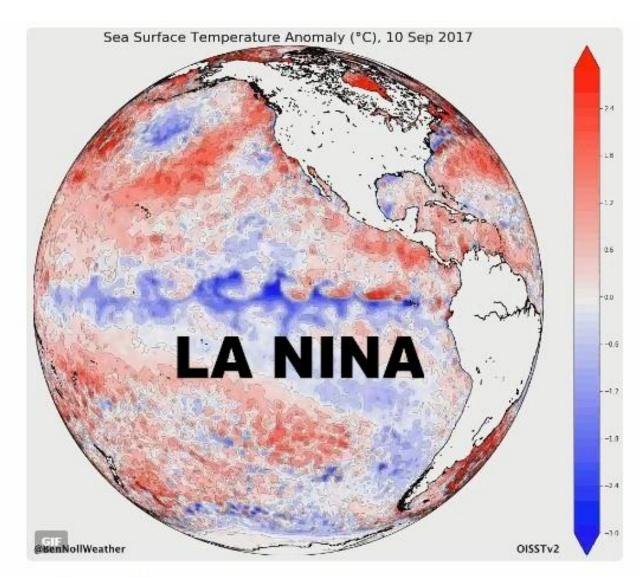
CFS WEEKLIES FEB 9-15... WET OVER DEEP SOUTH COLDER OVER PLAINS WCB

CFSv2 Mean 2m Temperature Anomaly (°C) from 00z09Feb2018 to 00z16Feb2018 (Days 22-28)

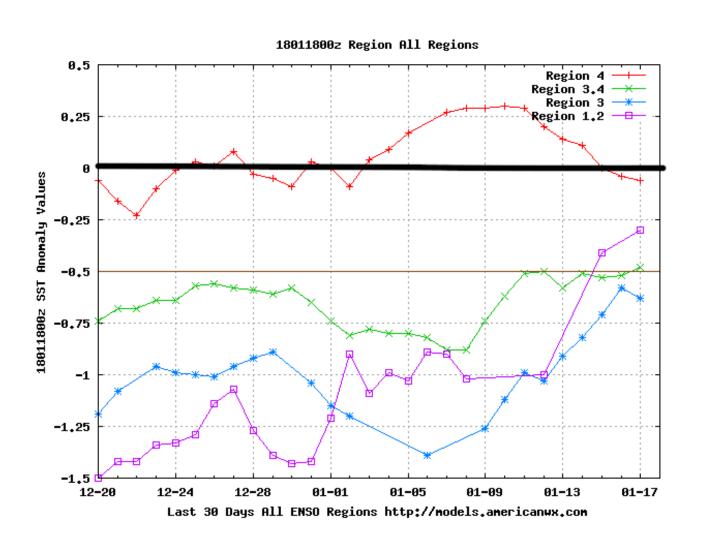


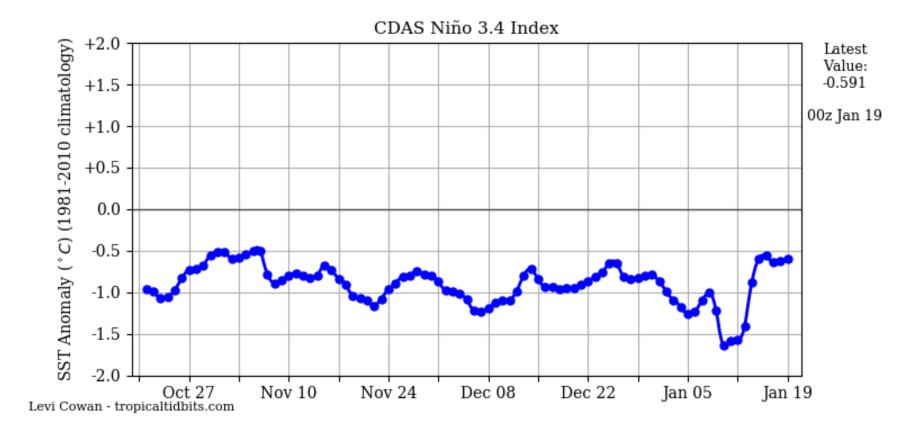
LETS TALK MJO/ENSO





ACTUAL SEA SURFACE TEMP ANOMALIES – of all 4 regions.. Is LA NINA weakening?

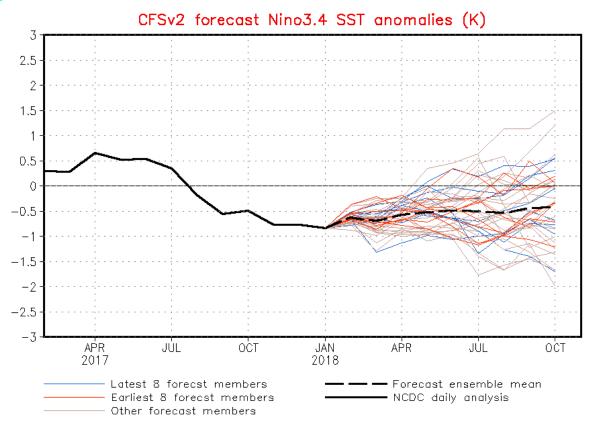




LATEST CFS MODEL PROJECTION = ** La Nina NEVER reaches threshold for MODERATE but stays weak into APRIL... Prolonging dry pattern into at least part of SPRING 2018

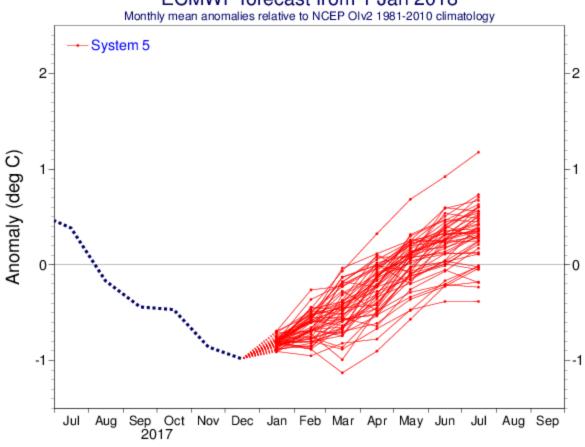


Last update: Wed Jan 17 2018
Initial conditions: 28Dec2017-6Jan2018



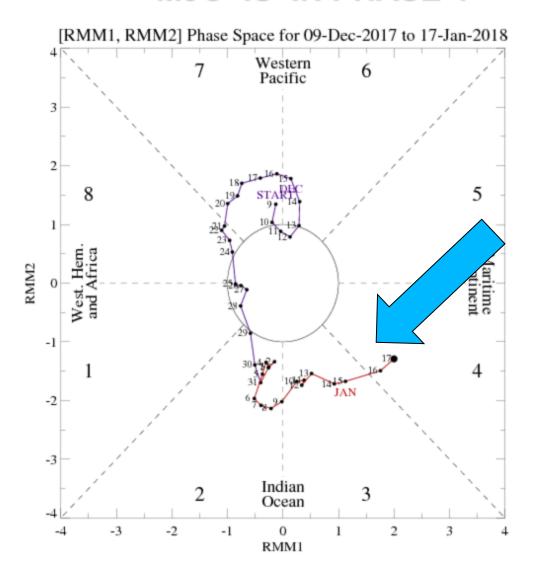
ECMWF ENSO PLUMES ... Weakenig La Nina ... NEUTRAL by APRIL / MAY

NINO3.4 SST anomaly plume ECMWF forecast from 1 Jan 2018

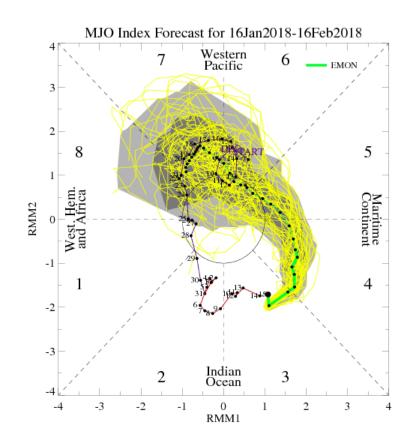


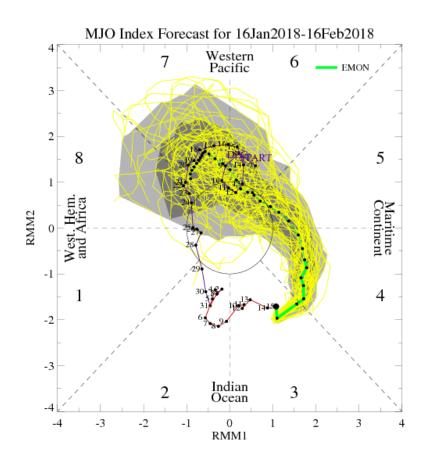


MJO IS IN PHASE 4



MJO PHASE MOVES BACK OUT ..INTO PHASE 5 AND 6 BY MID / LATE JAN ... And PHASE 7 by EARLY FEB...





JANUARY

T composites (DJF)

















FEBRUARY

T composites (JFM)

















IN JAN PHASE 4 5 6 WET OVER PLAINS MIDWEST DEEP SOUTH

IN FEB PHASE 8 2 1 DRY OVER PLAINS MIDWEST WET OVER EAST PHASE 1-2

