

Weather Forecasting For Traders, Investors, and Businesses

US and SOUTH AMERICA GRAIN WEATHER ISSUES

as of FRIDAY 13 OCTOBER 2017



LOCATED in Richmond VA

Featured frequently on AGRI-MONEY

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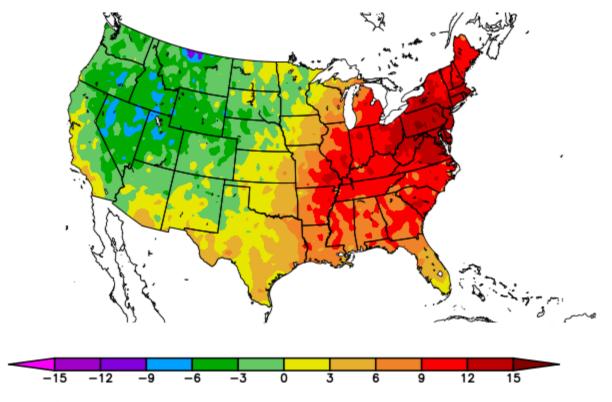
Who we are

WxRisk is a private, subscription, Weather Forecasting Company. Founded in 1998, the company specializes in providing the most detailed and accurate weather forecasts for Days 3 through 30, as well as seasonal forecasts, for Grain Traders , Farmers, Energy Traders, Construction companies, Oil and Heat associations, Wineries and other businesses impacted by weather. Geographic areas covered include, but are not limited to: The Middle Atlantic region of the U.S., all of the Continental U.S., South America, Europe, Ukraine/Southern and western Russia, Kazakhstan, India, Australia & China. Current and previous clients include large and mid-size commodity trading houses, energy firms, gas and propane companies, ski resorts, individual farmers and business involved in providing transportation and construction services thought the world.



TEMP ANOMALIES LAST 7 DAYS

Departure from Normal Temperature (F) 10/5/2017 - 10/11/2017



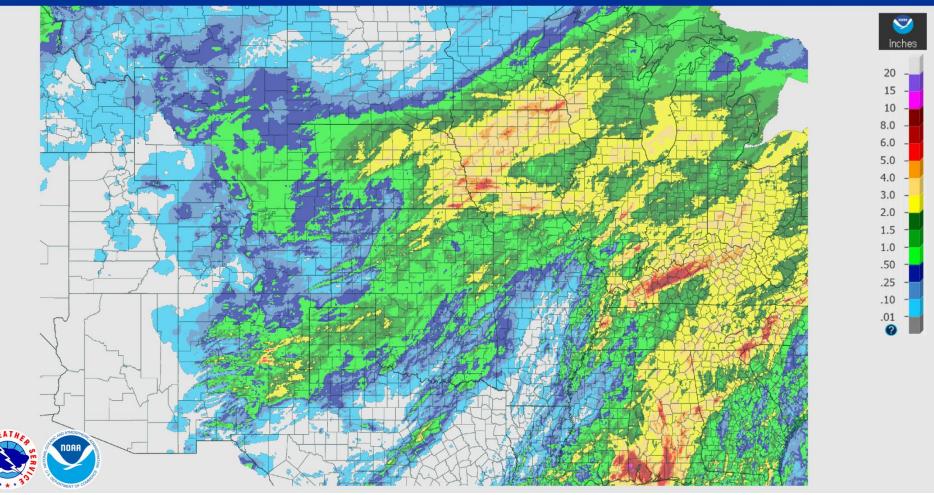
Generated 10/12/2017 at HPRCC using provisional data.

NOAA Regional Climate Centers

RAINFALL PAST 7 DAYS-

October 12, 2017 7-Day Observed Precipitation Created on: October 13, 2017 - 05:45 UTC

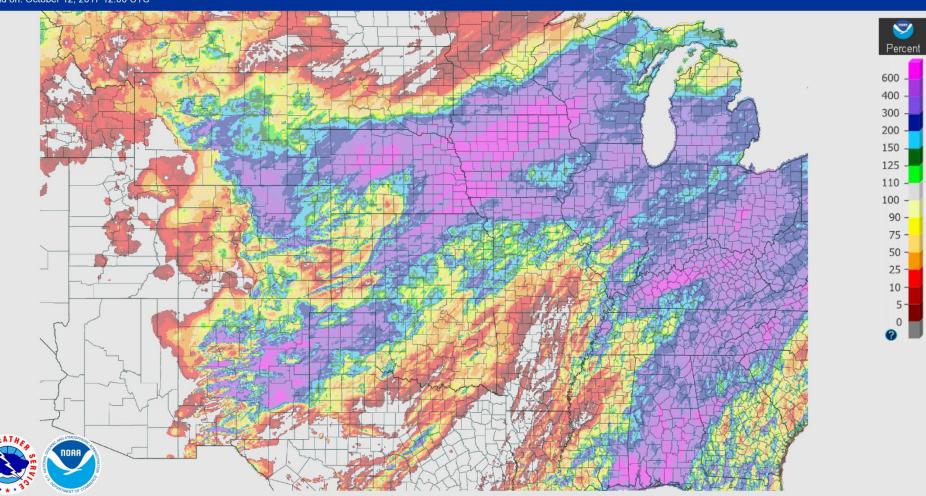
Valid on: October 12, 2017 - 05:45 U

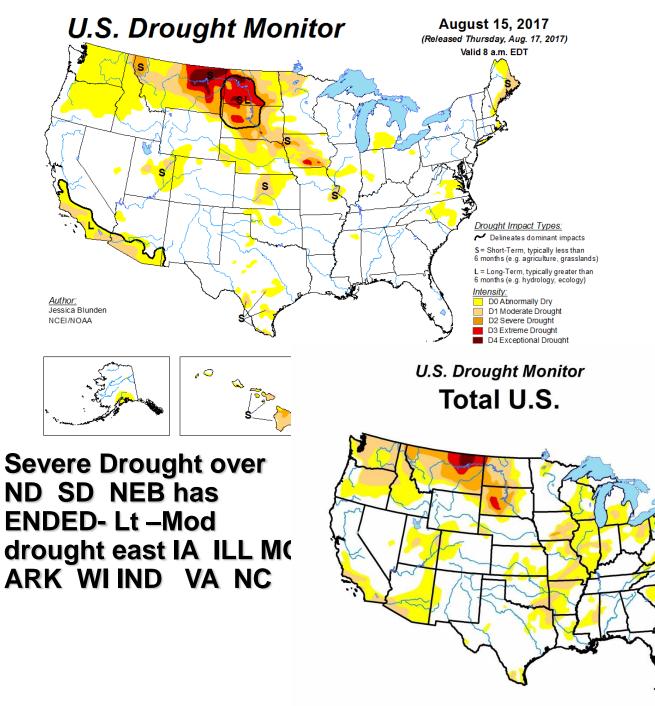


PRECIP ANOMALIES PAST 7D- Feast or Famine

October 12, 2017 7-Day Percent Precipitation

Created on: October 13, 2017 - 05:46 UTC Valid on: October 12, 2017 12:00 UTC





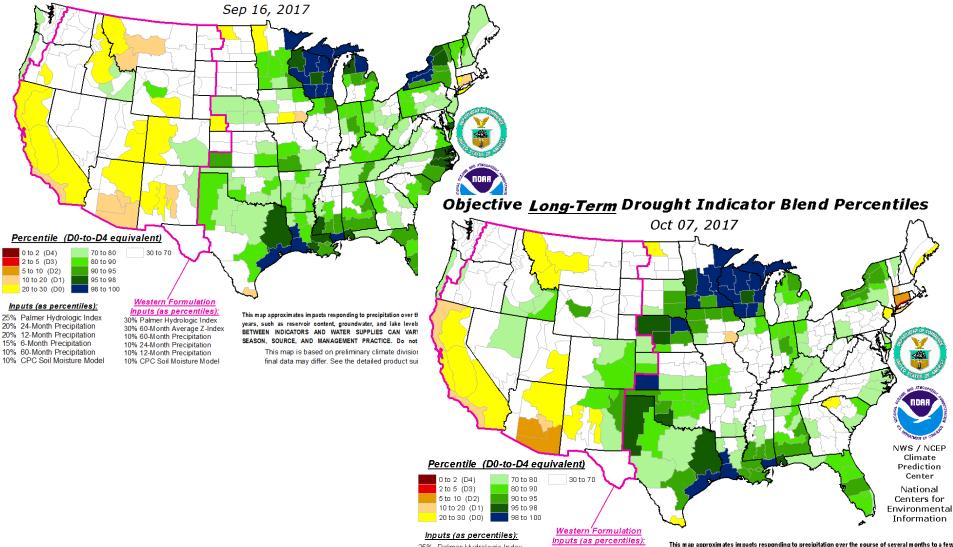
October 10, 2017 (Released Thursday, Oct. 12, 2017) Valid 8 a.m. EDT



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

Long term trend still show eastern half of the country "WET" favors mean trough position over Midwest/ East coast for Autumn / Winter

Objective Long-Term Drought Indicator Blend Percentiles

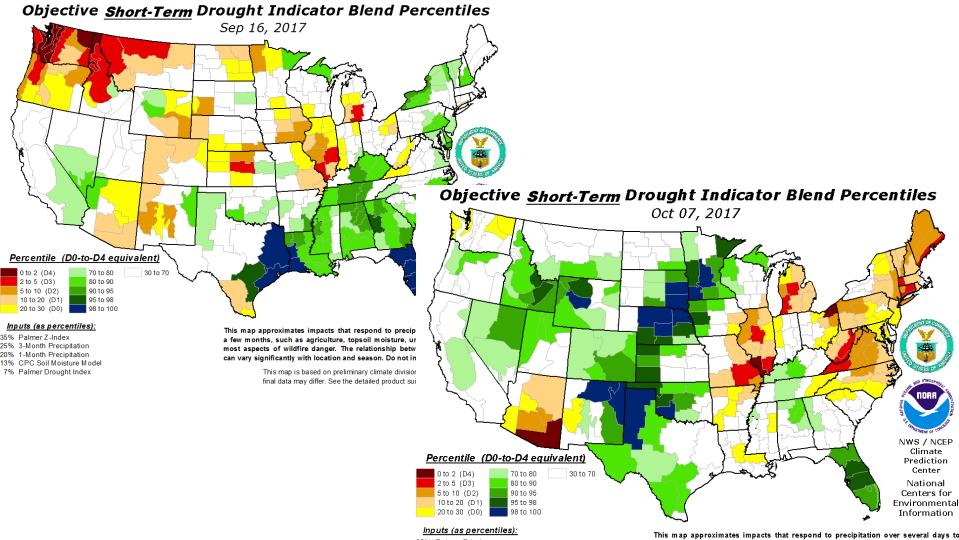


25% Palmer Hydrologic Index 20% 24-Month Precipitation 20% 12-Month Precipitation 15% 6-Month Precipitation 10% 60-Month Precipitation 10% CPC Soil Moisture Model Inputs (as percentiles): 30% Palmer Hydrologic Index 30% 60-Month Average Z-Index 10% 60-Month Precipitation 10% 24-Month Precipitation 10% 12-Month Precipitation 10% CPC Soil Moisture Model

This may approximates impacts responding to precipitation over the course of several months to a few years, such as reservoir content, groundwater, and lake levels. HOWEVER, THE RELATIONSHIP BETWEEN INDICATORS AND WATER SUPPLIES CAN VARY MARKEDLY WITH LOCATION, SEASON, SOURCE, AND MANAGEMENT PRACTICE. Do not interpret this map too literally.

This map is based on preliminary climate division data. Local conditions and/or final data may differ. See the detailed product suite description for more details.

SHORT term trend = PAC NW into Upper Plains is gone ...Plains/ WCB Much wetter ECB still dry... MID Atlantic dry

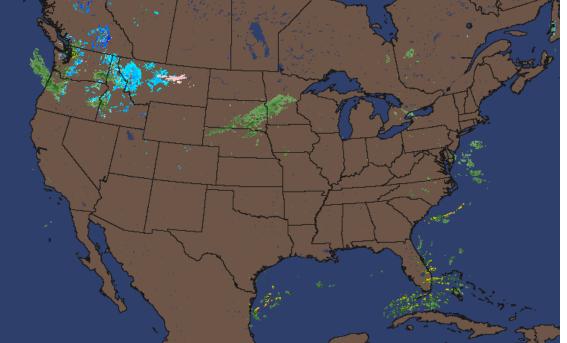


25% 3-Month Precipitation 20% 1-Month Precipitation 20% 1-Month Precipitation 13% CPC Soil Moisture Model 7% Palmer Drought Index This map approximates impacts that respond to precipitation over several days to a few months, such as agriculture, topsoil moisture, unregulated streamflows, and most aspects of wildfire danger. The relationship between indicators and impacts can vary significantly with location and season. Do not interpret this map too literally.

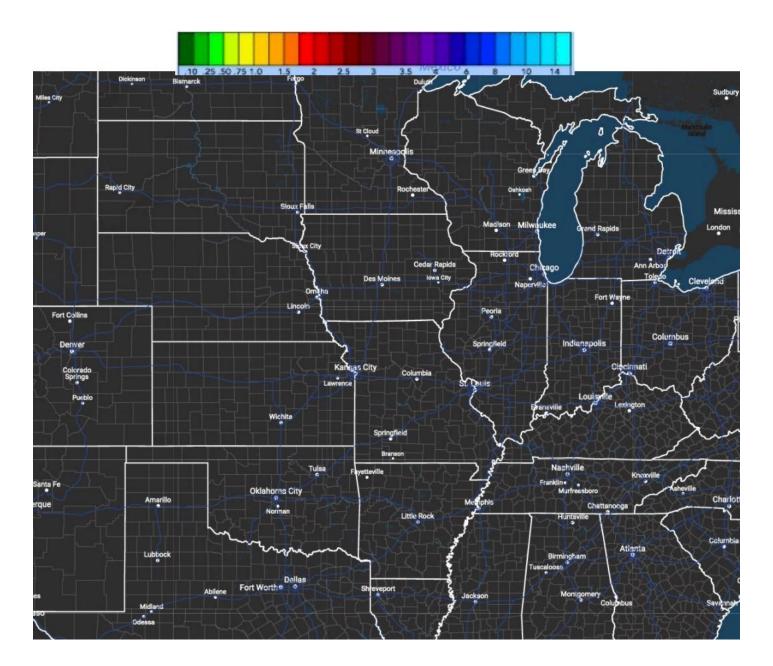
> This map is based on preliminary climate division data. Local conditions and/or final data may differ. See the detailed product suite description for more details.

RADAR 12 AM /7AM FRIDAY Light Rain R

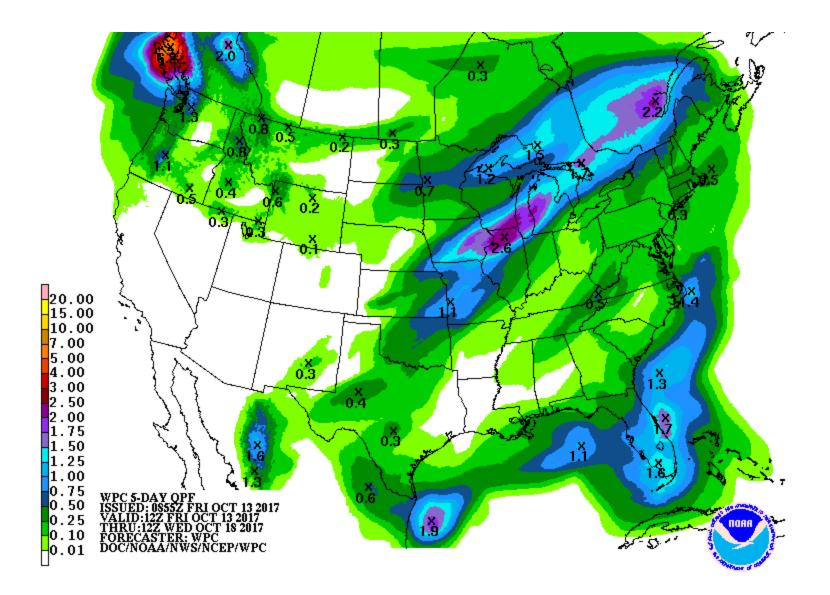




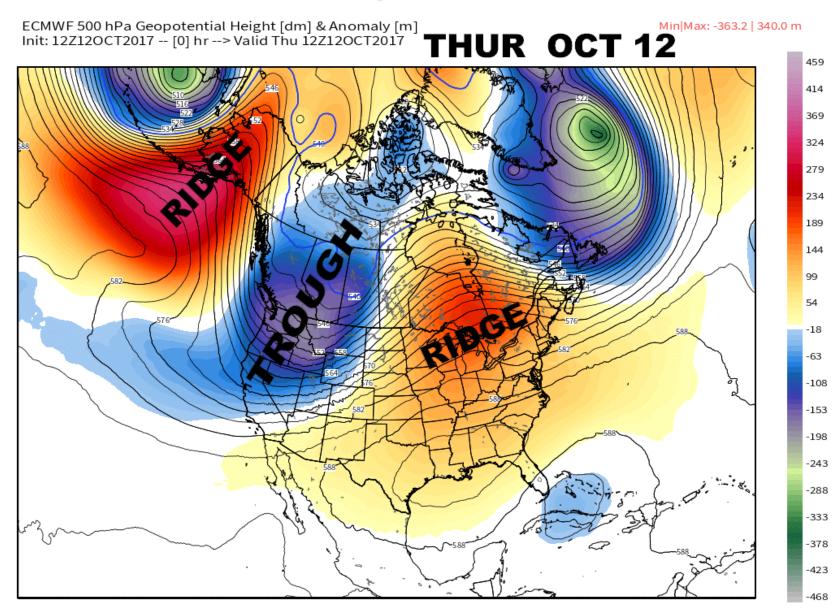
RAINFALL AS OF 13 OCT

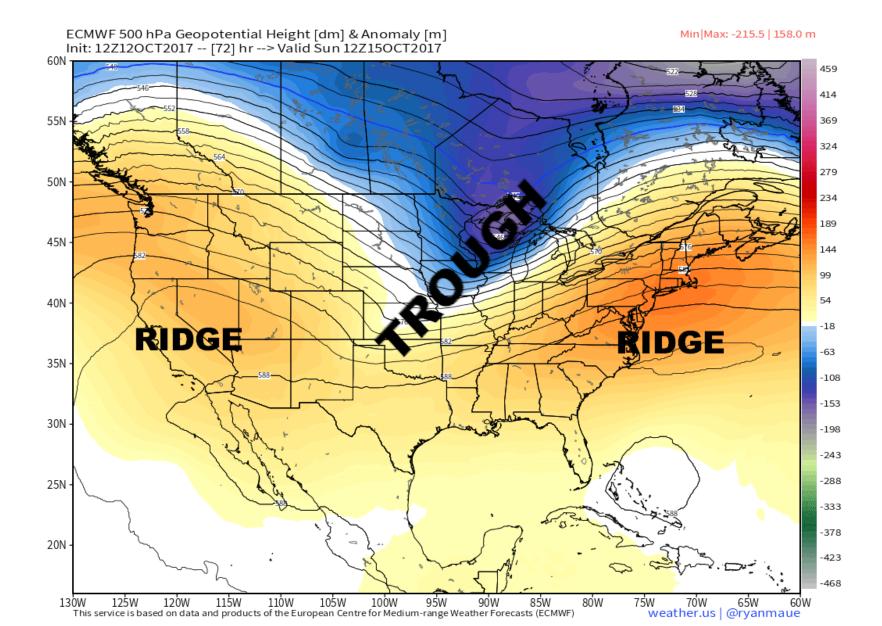


NWS OFFICIAL RAINFALL NEXT 5 DAYS

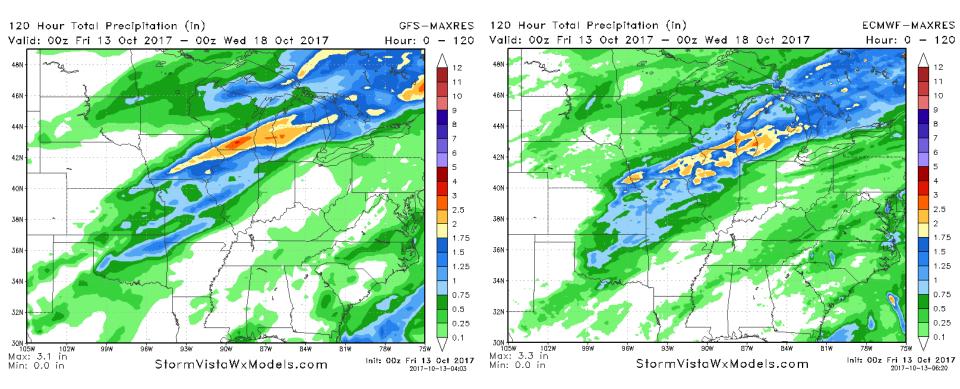


500mb map 13 OCT

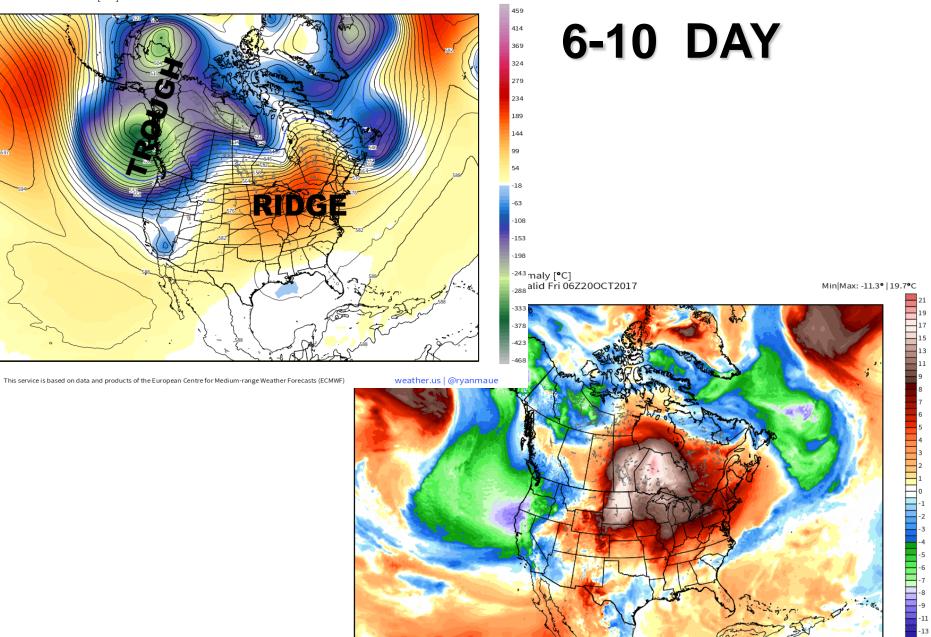




NEXT 5 DAYS GFS LEFT EURO RIGHT



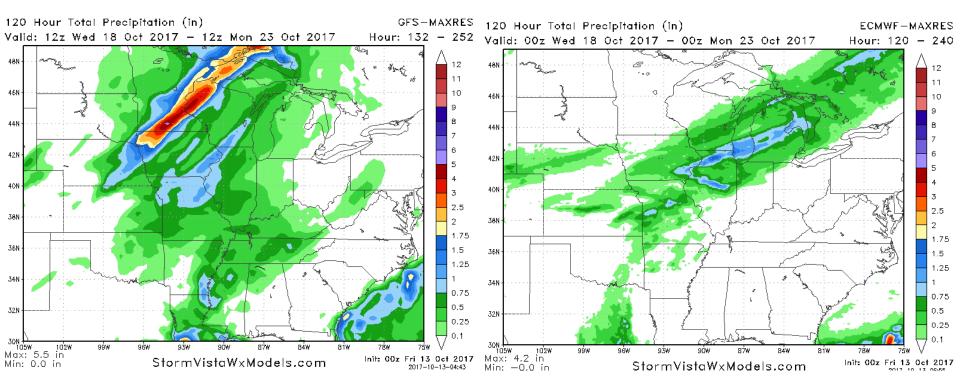




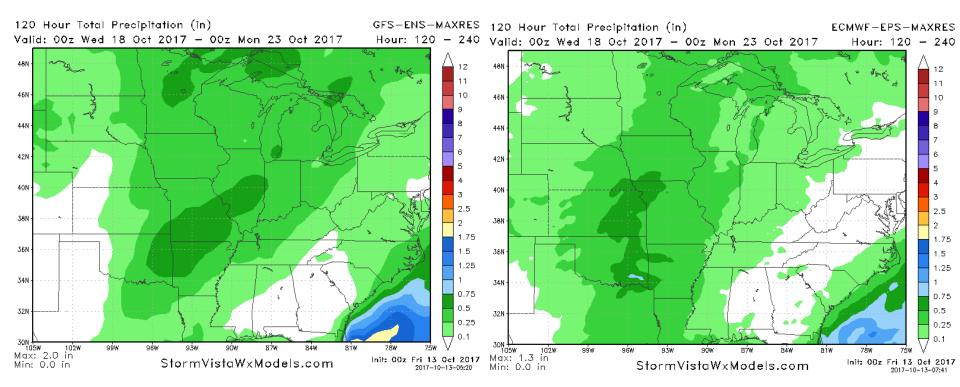
This service is based on data and products of the European Centre for Medium-range Weather Forecasts (ECMWF)

-15 -17 -19 -21

6-10 DAY RAINFALL ...

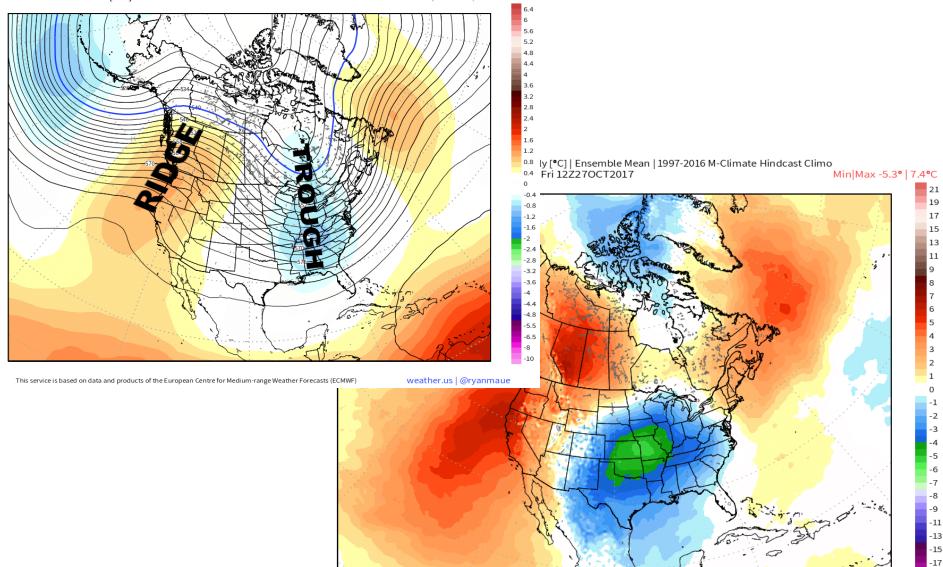


6-10 DAY ENSEMBLES -



500 mb map shows trough moves into midwest and northeast US by OCT 26-27

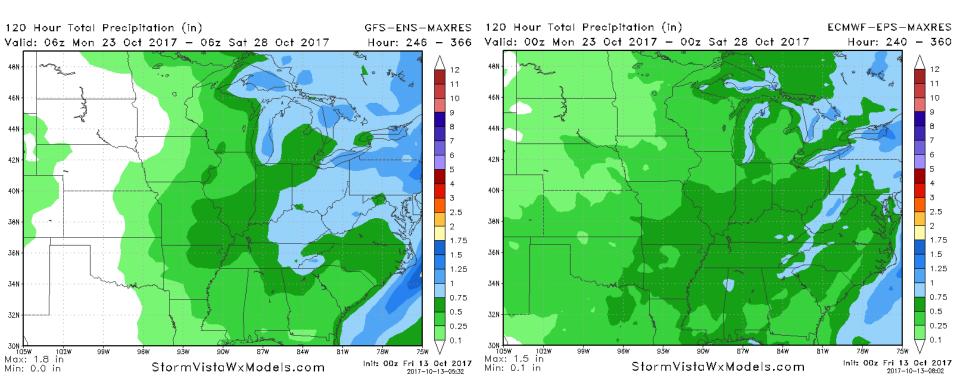
ECMWF EPS Ensemble Mean 500 hPa Geopotential Height [dm] & Normalized Anomaly [std devs] | 1997-2016 M-Climate Hindcast Climo Init: 00Z130CT2017 -- [336] hr --> Valid Fri 00Z270CT2017 Min|Max: -1.0 | 2.3 std dev

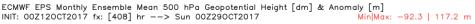


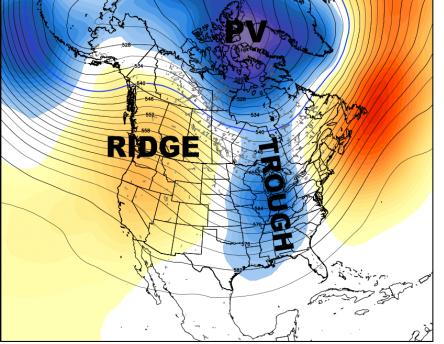
This service is based on data and products of the European Centre for Medium-range Weather Forecasts (ECMWF)

-19 -21

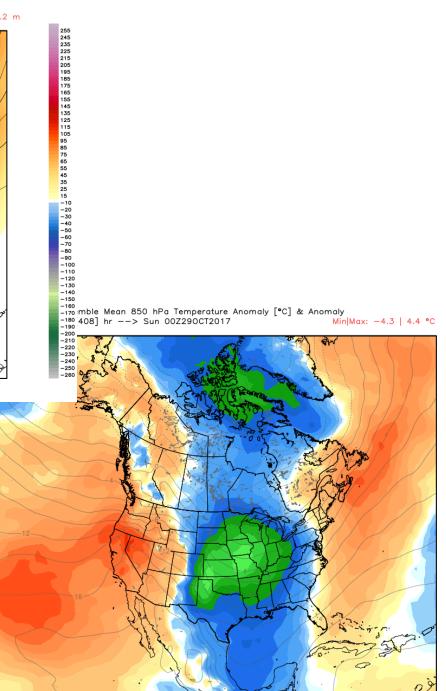
11-15 DAY ENSEMBLES GFS (left) EURO (right) moderate wet over Midwest mid OCT

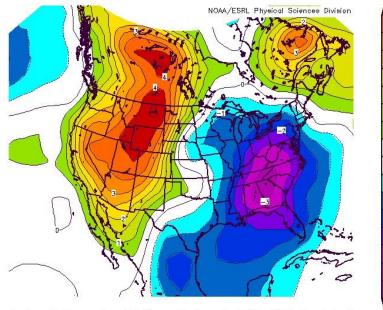












3

-1

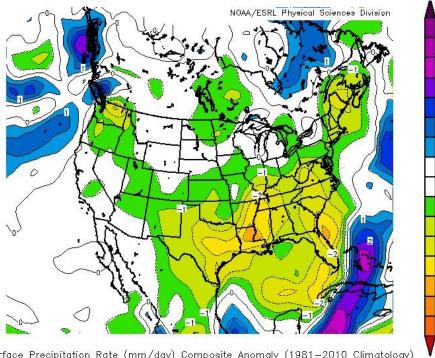
-2

-3

-4

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

16-20D Rollover Model from 10/12...



3

2

0

-1

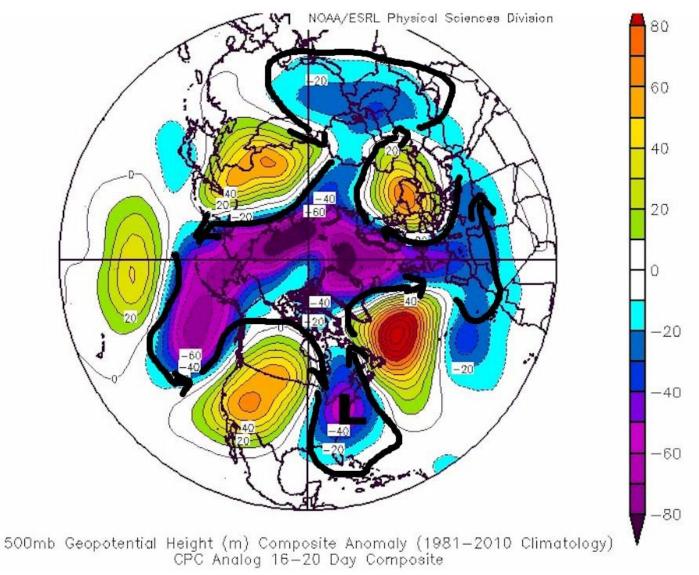
-2

-3

-4

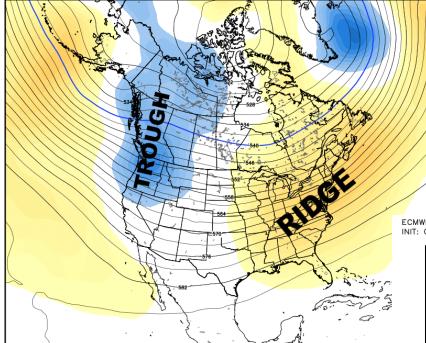
Surface Precipitation Rate (mm/day) Composite Anomaly (1981—2010 Climatology) CPC Analog 16—20 Day Composite NCEP/NCAR Reanalysis

16-20D upper air/ Pattern-- shows deep trough over East coast/ cold pattern



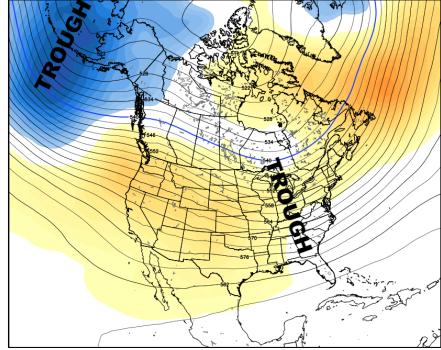
OCT 12 EURO WEEKLIES 500 mb map valid NOV 12----- NOV 24

ECMWF EPS Monthly Ensemble Mean 500 hPa Geopotential Height [dm] & Anomaly [m] INIT: 00Z120CT2017 fx: [744] hr --> Sun 00Z12NOV2017 Min|Max: -46.7 | 62.5 m



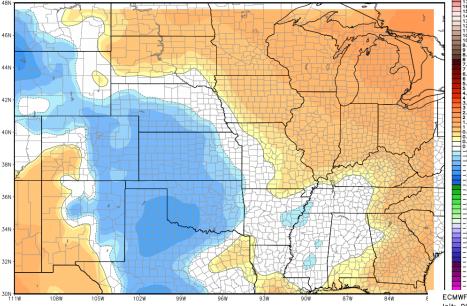
ECMWF EPS Monthly Ensemble Mean 500 hPa Geopotential Height [dm] & Anomaly [m] INIT: 00Z120CT2017 fx: [1032] hr --> Fri 00Z24N0V2017 Min|Max: -

Min|Max: -59.6 | 77.9 m



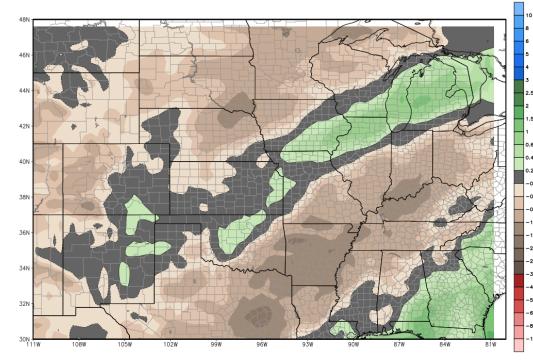
 ECMWF EPS Ensemble Mean 32-day Avg 2m Temperature Anomaly [°C]
 Min|Max: -2.1°
 2.5°C

 Init: 00Z120CT2017 -- [768] hr --> Valid on Mon 00Z13NOV2017 Day 0 - Day 32
 Day 32



OCT 12- NEXT 30 DAYS TEMP ANOMALIES EURO WEEKLIES

ECMWF EPS Ensemble Mean 32-day Avg Precipitation Anomaly [inch] Init: 00Z120CT2017 -- [768] hr --> Valid on Mon 00Z13NOV2017 Day 0 - Day 32 Min|Max Anom: -1.9 | 2.1 inch

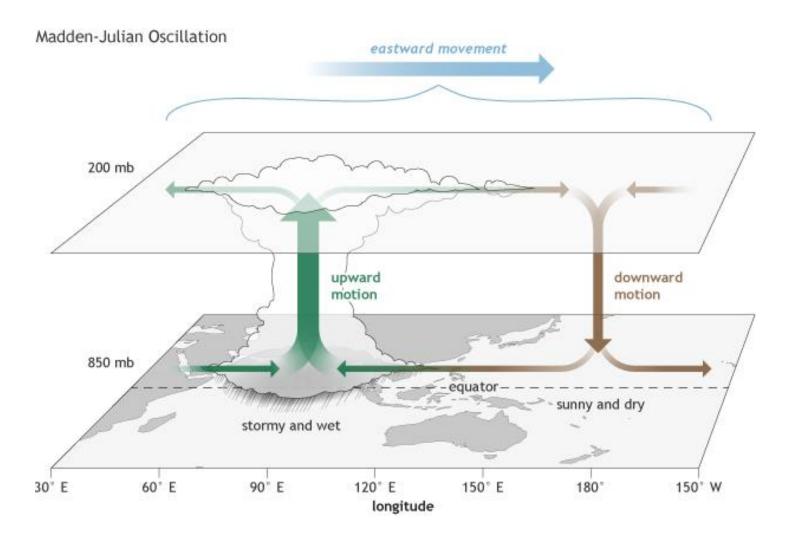


OCT 12 .. EURO WEEKLIES next 30 day PRECIP ANOMALIES

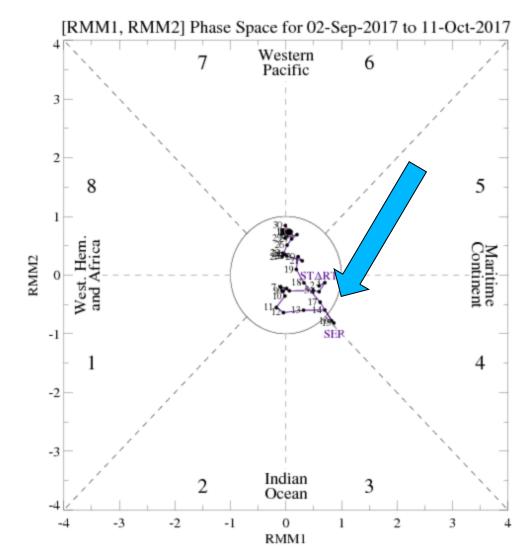
Average between 00Z120CT2017-00Z13NOV2017 | ECMWF EPS 1996-2015 Hindcast Climatology

Accumulation between 00Z120CT2017-00Z13NOV2017 | ECMWF EPS 1996-2015 Hindcast Climatology

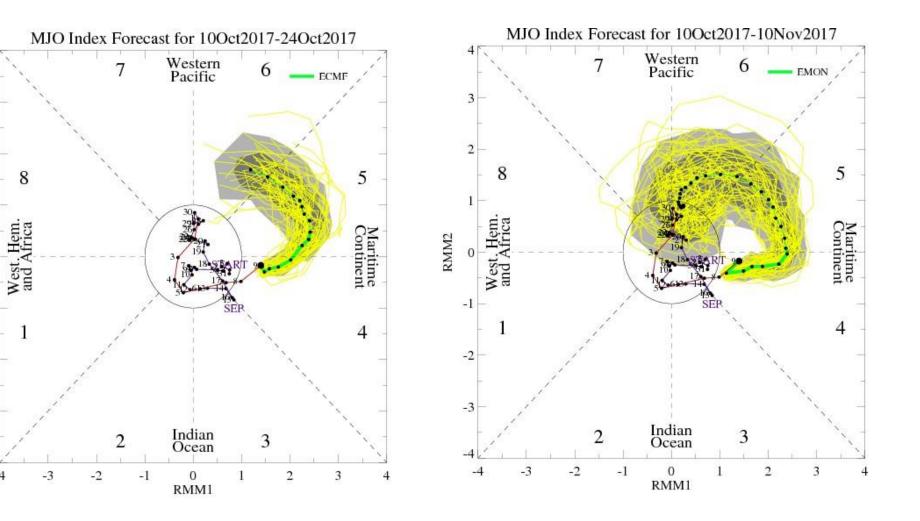
LETS TALK MJO/ENSO



MJO STAYS WEAK

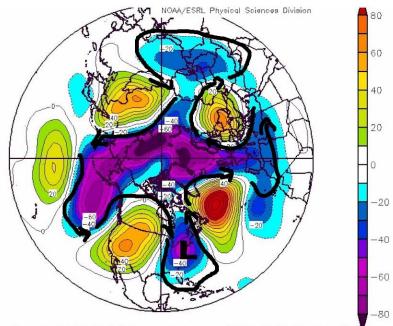


MJO WAKES UP STRONG PHASE 4 5 6 BY 10 NOV... WHICH MEANS WHAT?



LATE OCT / EARLY NOV MAJOR PHASE 6 UPPER AIR PATTERN DEEP TROUGH OVER EASTERN US

16-20D upper air/ Pattern-- shows deep trough over East coast/ cold pattern



500mb Geopotential Height (m) Composite Anomaly (1981-2010 Climatology) CPC Analog 16-20 Day Composite

NCEP/NCAR Reanalysis

-40 -6D

-80

80

60

40

20

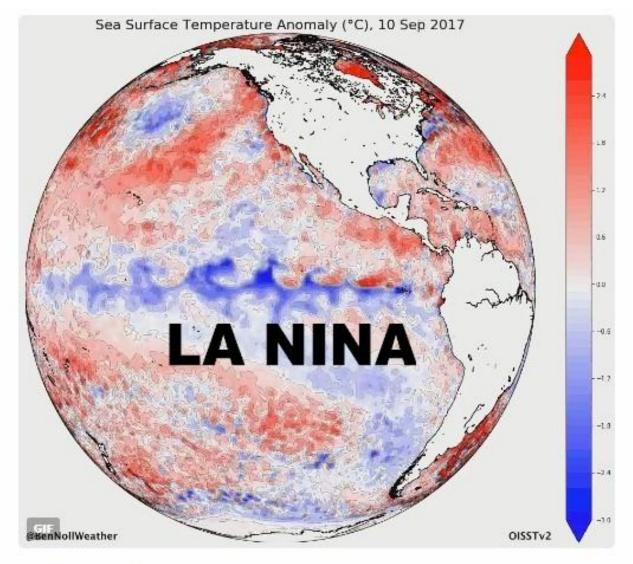
n

-40

-20

-40

500mb Geopotential Height (m) Composite Anomaly (1981-2010 Climatology) CPC Analog 16-20 Day Composite

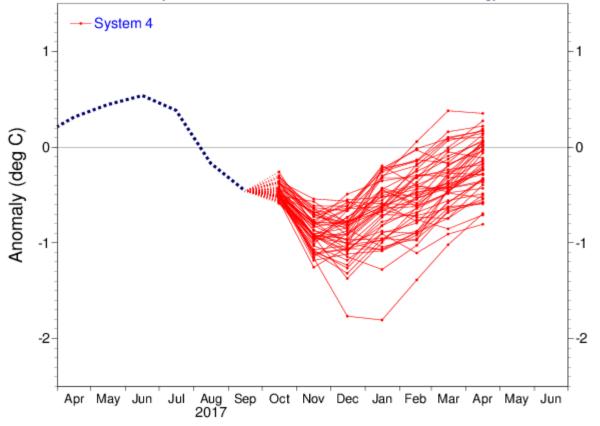


6:29 AM - 13 Sep 2017

LATEST EURO MODEL PROJECTION = ** WEAK LANINA BY DEC 2018.. THEN NEUTRAL BY MARCH / APRIL

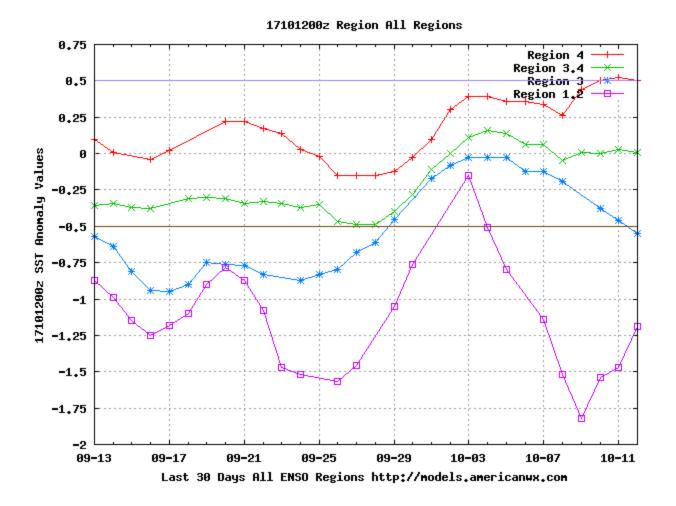
NINO3.4 SST anomaly plume ECMWF forecast from 1 Oct 2017

Monthly mean anomalies relative to NCEP OIv2 1981-2010 climatology

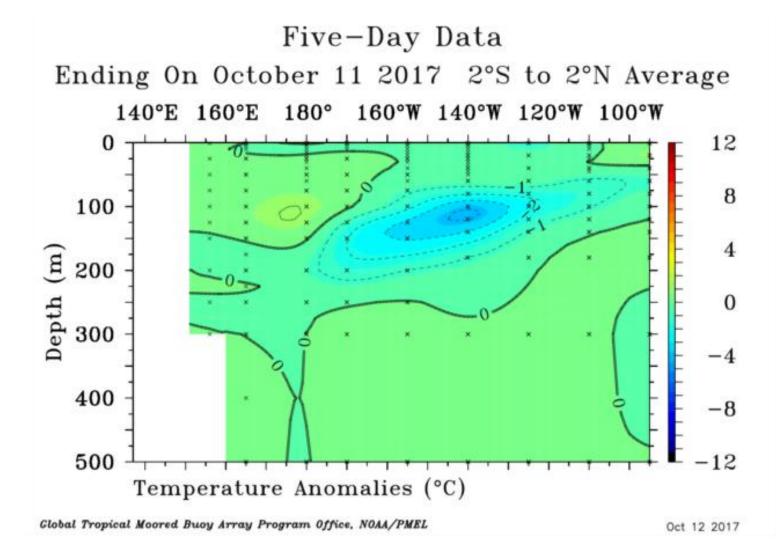


CECMWF

ACTUAL SEA SURFACE TEMP ANOMALIES – not projection .. Large area of cold water surface and sub surface

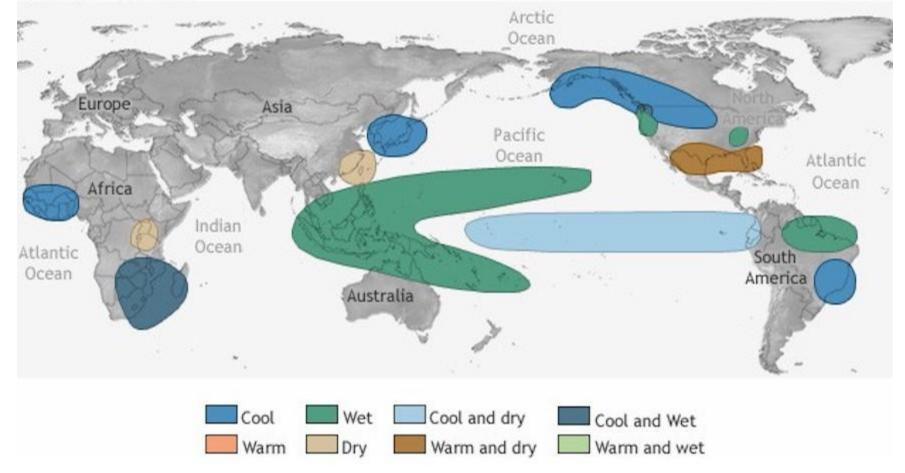


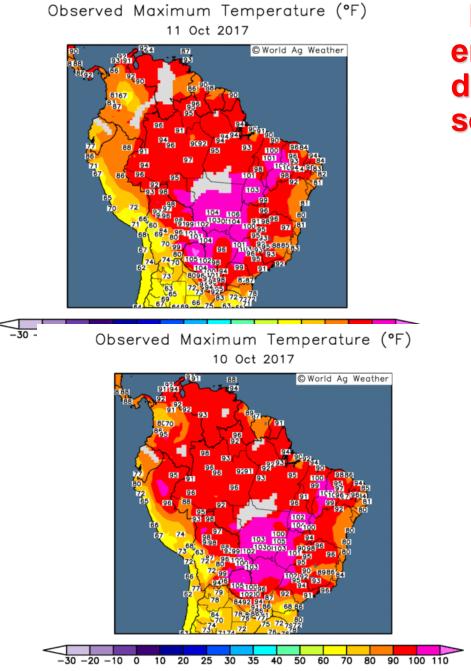
TAO – ACTUAL SEA SURFACE TEMP ANOMALIES – not projection .. Large area of cold water surface and sub surface



LA NIÑA CLIMATE IMPACTS

December-February

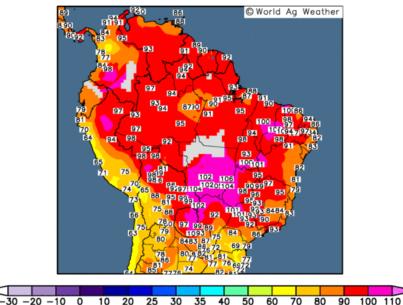




Map updates daily by approximately 16:00 UTC

HEAT WAVE IN BRAZIL enhanced by prolonged dryness of past several seasons

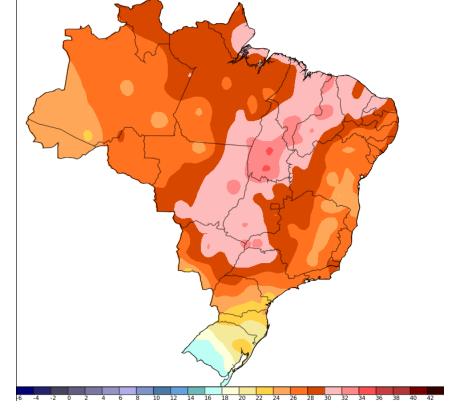




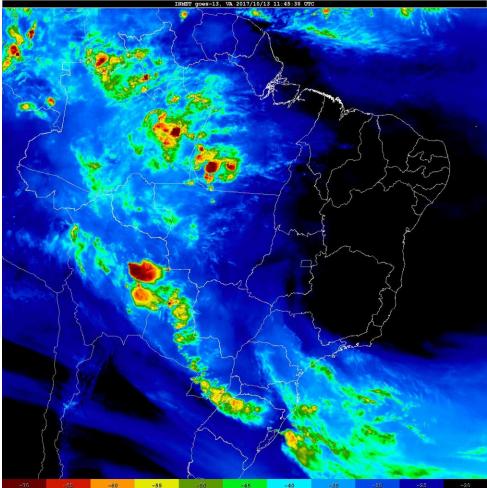
Map updates daily by approximately 16:00 UTC

Instituto Nacional de Meteorologia - INMET Temperatura do Ar (°C) Informações Sinóticas do dia 13/10/2017 às 12:00 UTC

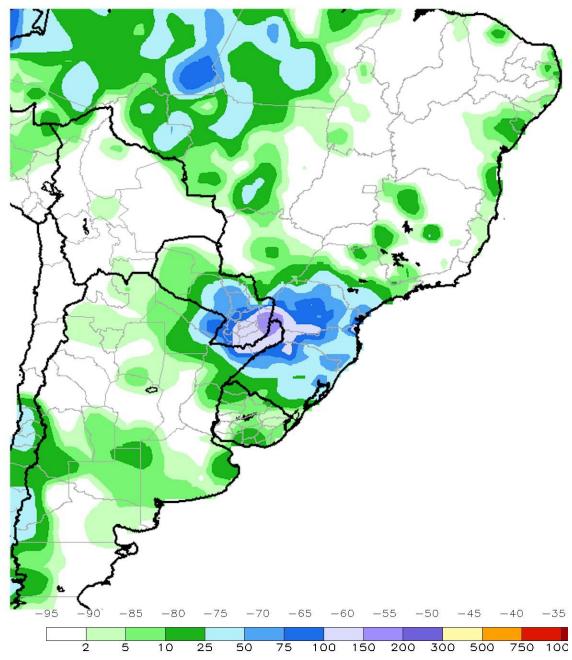
MAX TEMPS OCT 12– NOT AS HOT OVER BRAZIL INTERIOR

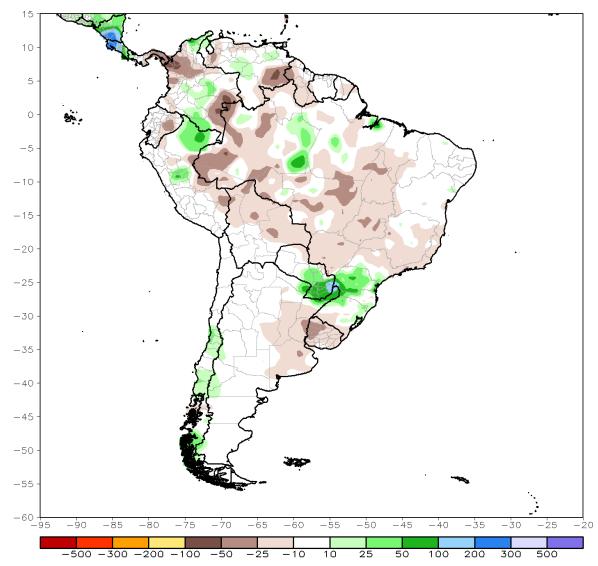


LINE OF STORMS from RGDS into Paraguay



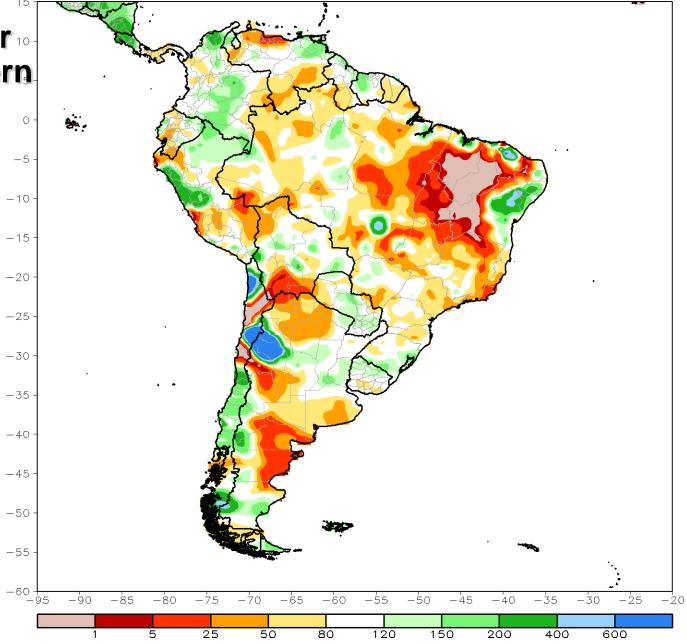
25 - 150mm/ 1-5 inches over eastern Parag Corrientes in ne ARG into sw Parana CPC Unified Gauge 7-Day Total Rainfall (mm) Period: 050ct2017 - 110ct2017

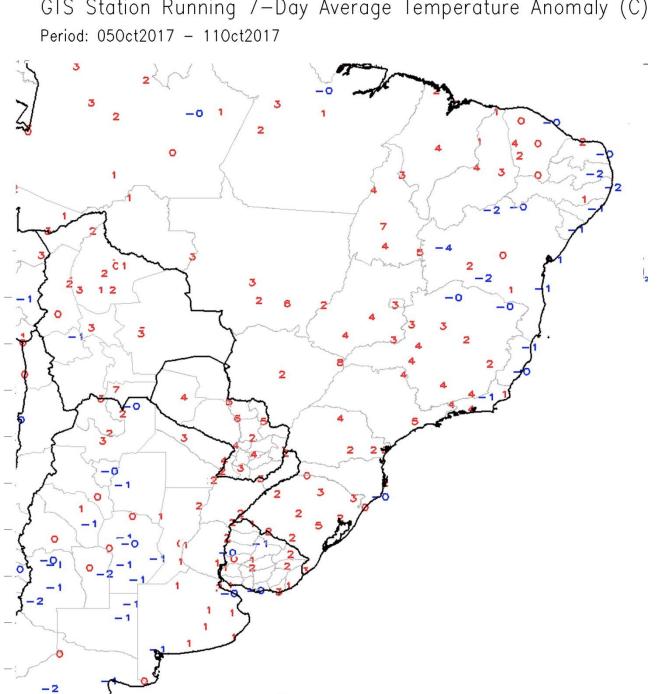




CPC Unified Gauge 7–Day Total Rainfall Anomaly (mm) Period: 050ct2017 – 110ct2017 CPC Unified Gauge 30-Day Percent of Normal Rainfall (%) Period: 12Sep2017 - 110ct2017

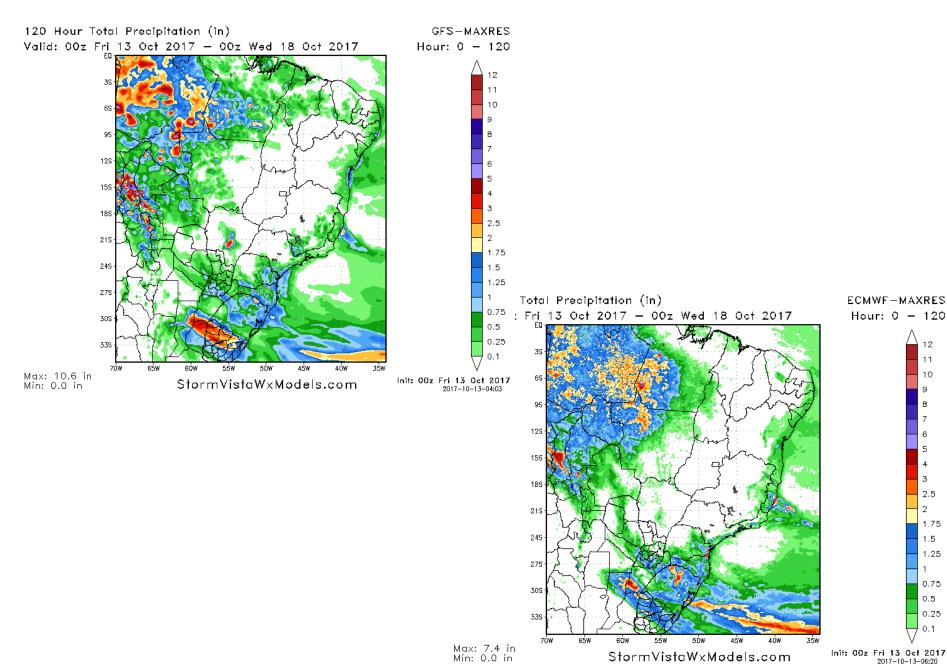
SEVERE 15 DROUGHT over 10central & eastern Brazil

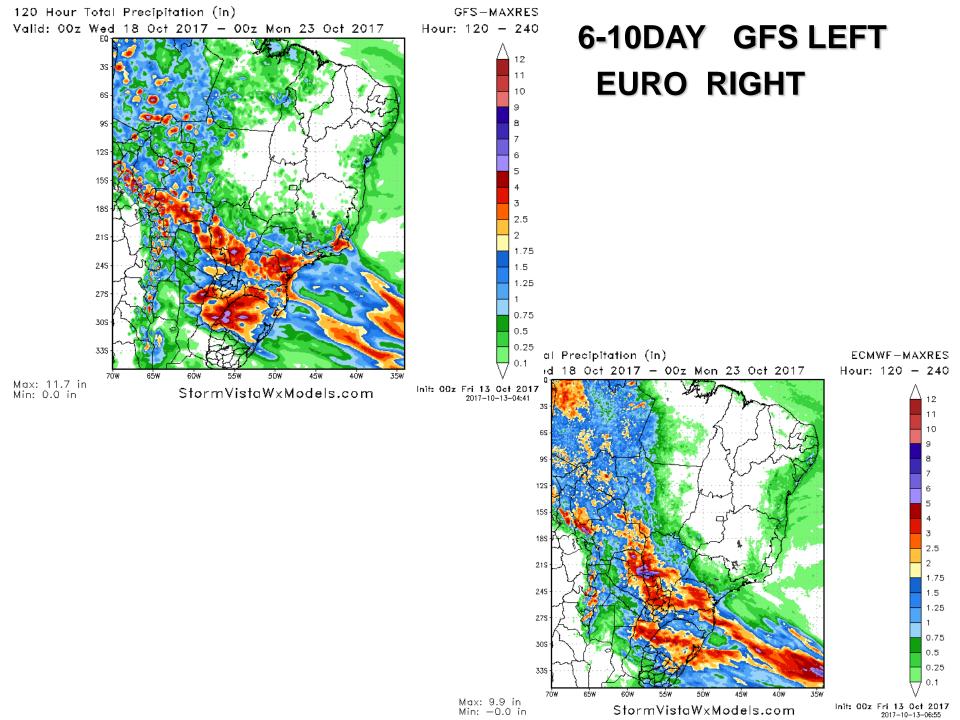


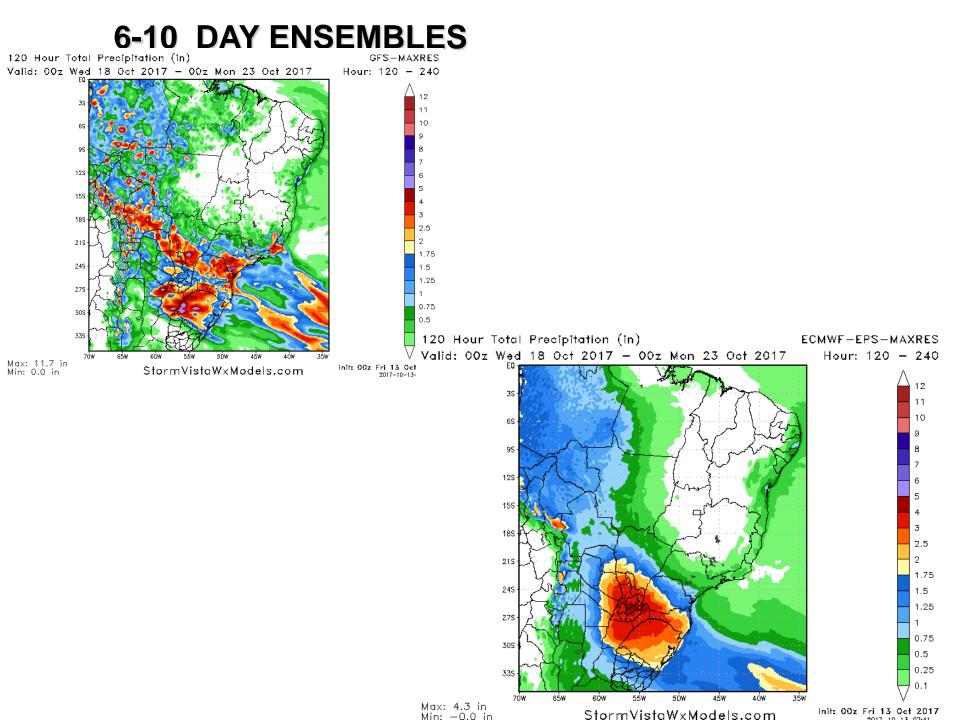


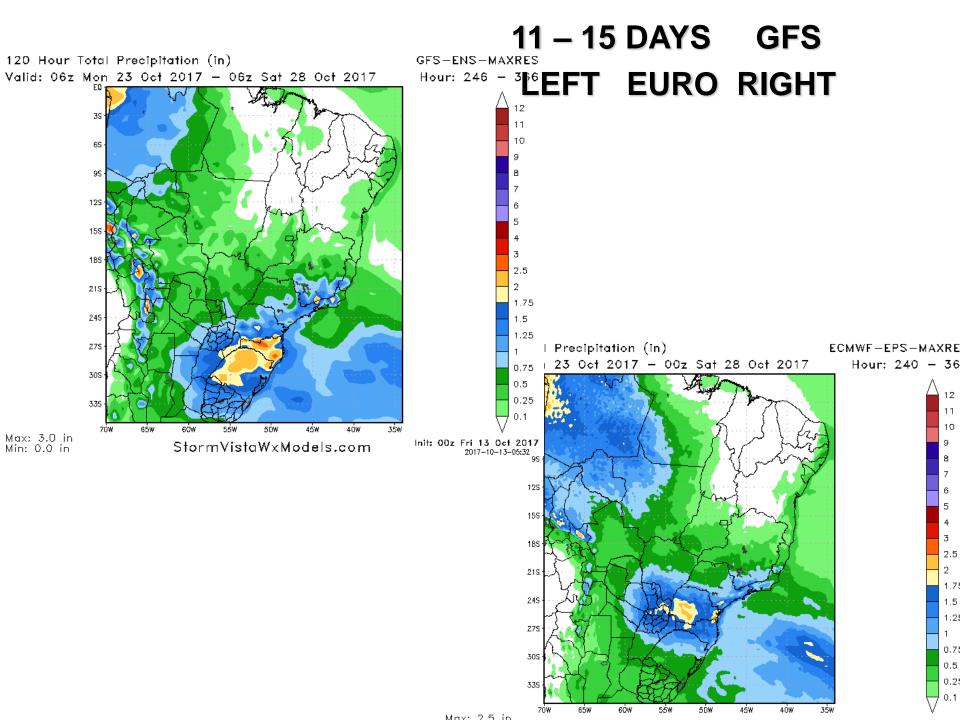
GTS Station Running 7-Day Average Temperature Anomaly (C)

NEXT 5 DAYS GFS LEFT EURO RIGHT

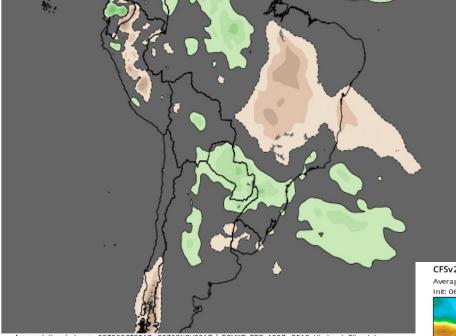








ECMWF EPS Ensemble Mean 7-day Avg Precipitation Anomaly [inch] Init: 00Z120CT2017 -- [252] hr --> Valid on Thu 00Z02N0V2017 Day 3.5 - Day 10.5



Min|Max Anom: -7.4 | 3.8 inch

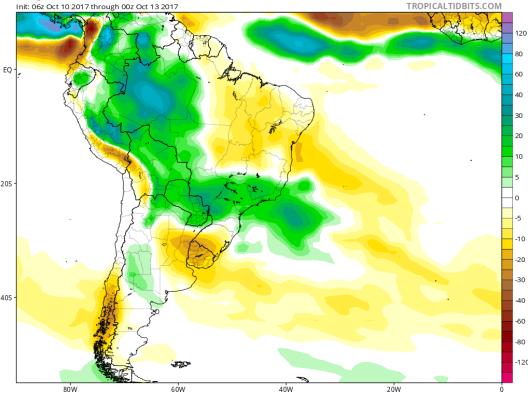
405

Accumulation between 007260CT201 -00702NOV2017 | ECMWE EPS 1997-2016 Hindcast Climatology

By 11/3 wet pattern over much of se / sw Brazil begins to shift north

EURO shows central/ interior **BRAZIL DRY** to 11/2/17 – wet over northern eastern ARG / Parag./ SE Brazil

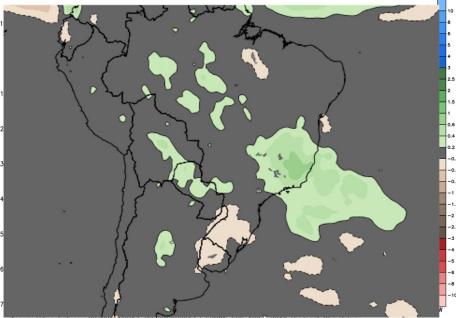
CFSv2 Accumulated Precip. Anomaly (mm) from 00z27Oct2017 to 00z03Nov2017 (Days 15-21) Average of last 48 forecasts (12 runs x 4 members) Init: 06z Oct 10 2017 through 00z Oct 13 2017



EURO by 11/9/17 shows Above normal rains much of Brazil

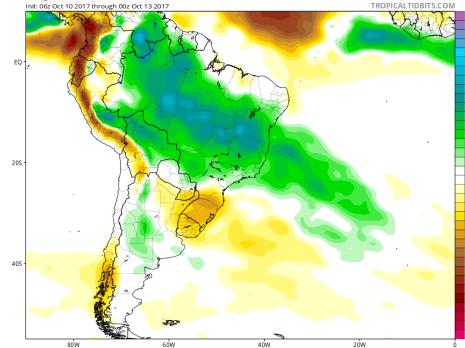
Min|Max Anom: -2.7 | 1.6 inch

ECMWF EPS Ensemble Mean 7-day Avg Precipitation Anomaly [inch] Init: 00Z120CT2017 -- [336] hr --> Valid on Thu 00Z09N0V2017 Day 7 - Day 14

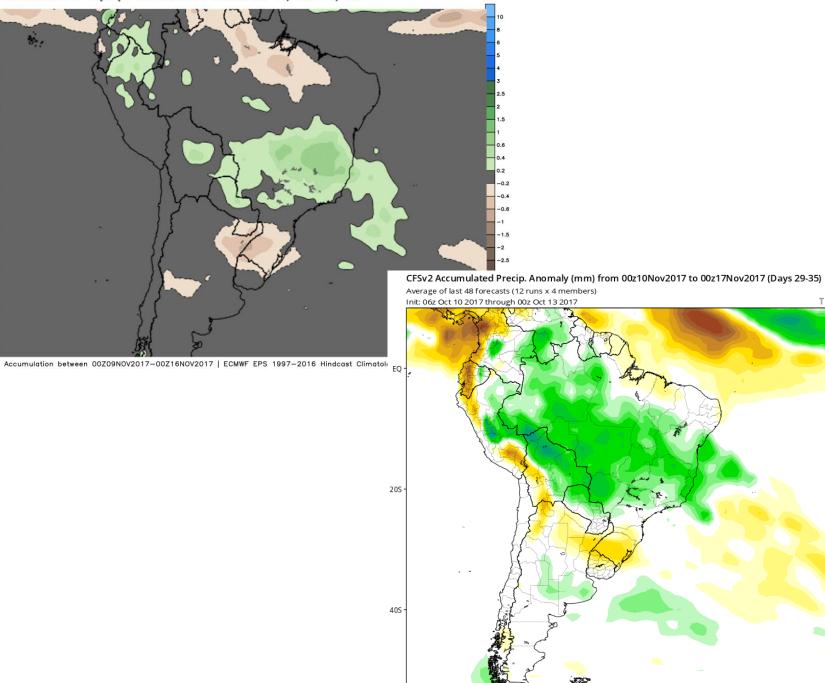


Accumulation between 00202N0V2017-00209N0V2017 | ECMWF EPS 1997-2016 Hindcast Climatology

CFSv2 Accumulated Precip. Anomaly (mm) from 00z03Nov2017 to 00z10Nov2017 (Days 22-28) Average of last 48 forecasts (12 runs x 4 members)

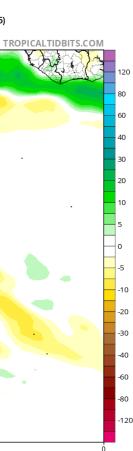


Init: 00Z120CT2017 -- [420] hr --> Valid on Thu 00Z16N0V2017 Day 10.5 - Day 17.5



<u>รก่พ</u>

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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

