

Weather Forecasting For Traders, Investors, and Businesses

US and OVERSEAS GRAIN WEATHER ISSUES

12 MAY 2017



LOCATED in Richmond VA

Featured frequently on AGRI-MONEY

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General Weather

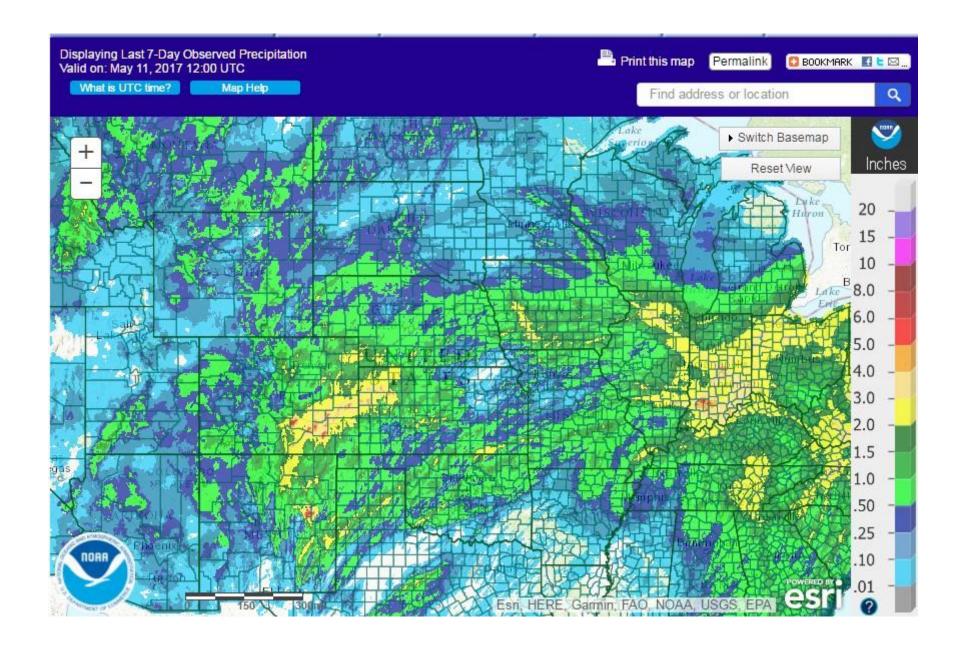
THE DTs.... Q



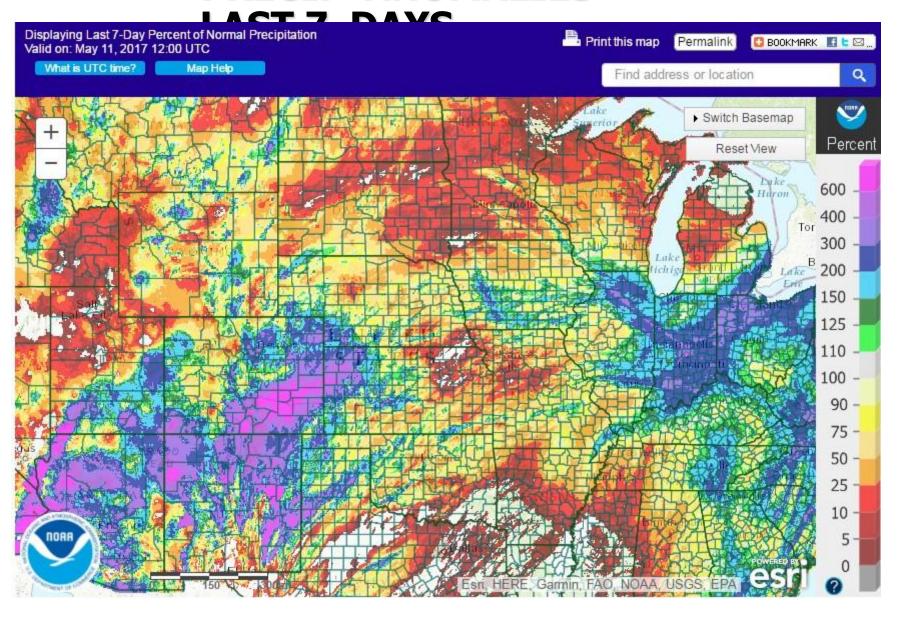
Who we are

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.

RAINFALL LAST 7 DAYS

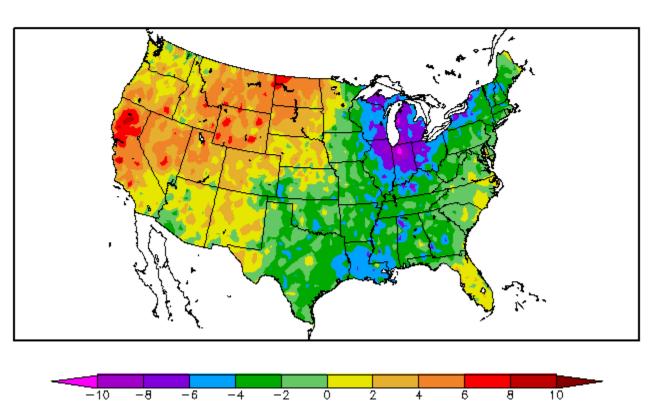


PRECIP ANOMALIES

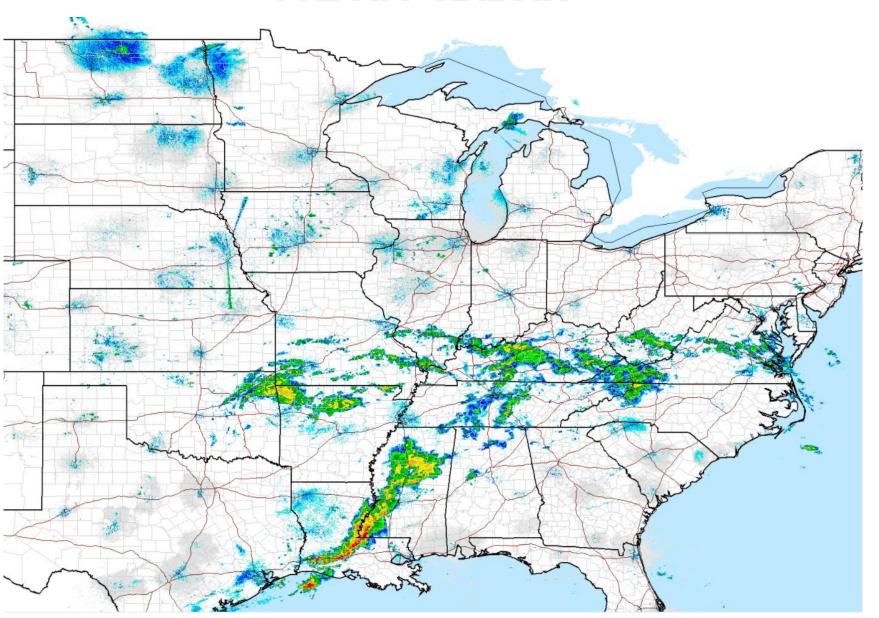


TEMP ANOMALIES LAST 7 DAYS

Departure from Normal Temperature (F) 5/1/2017 - 5/10/2017

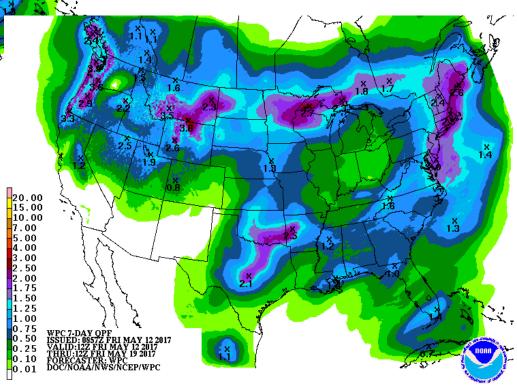


FRI AM RADAR



NWS OFFICIAL RAINFALL NEXT 5 DAYS

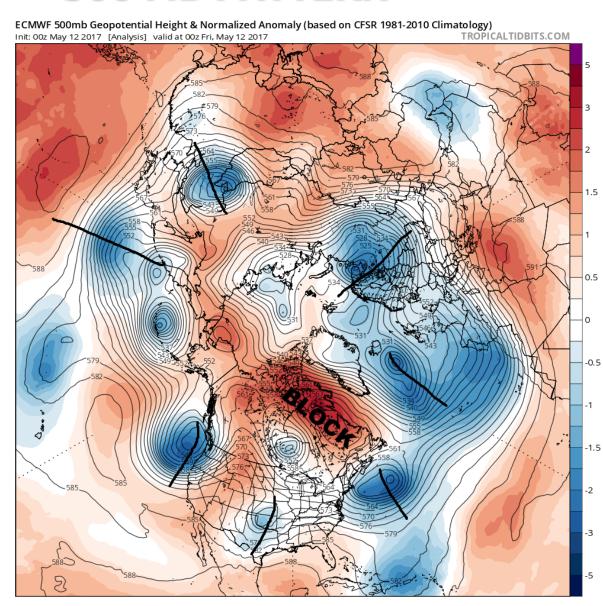
NWS OFFICIAL
RAINFALL NEXT 7
DAYS - note that there
is significant new rain
fall in DAY 6 & 7



CURRENT UPPER AIR – 500 MB PATTERN

NOTE THE BLOCK over ne Canada. This is the feature that has brought about all the cold temps in 1st week of MAY.

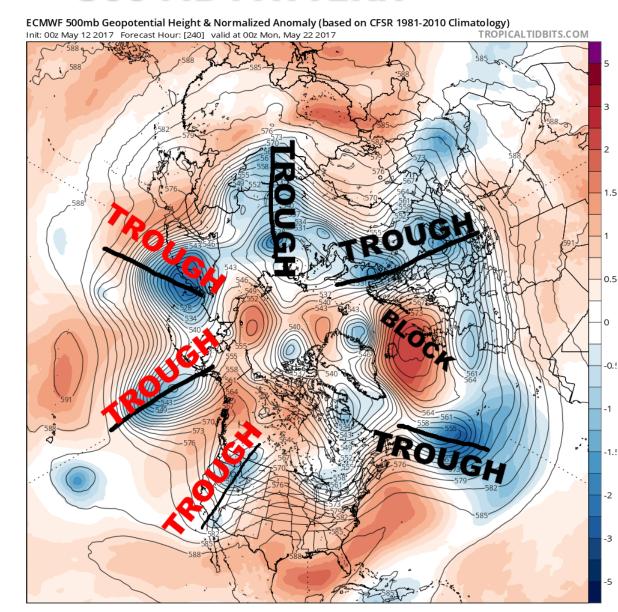
Also note the numerous TROUGHS evenly spaced around the world



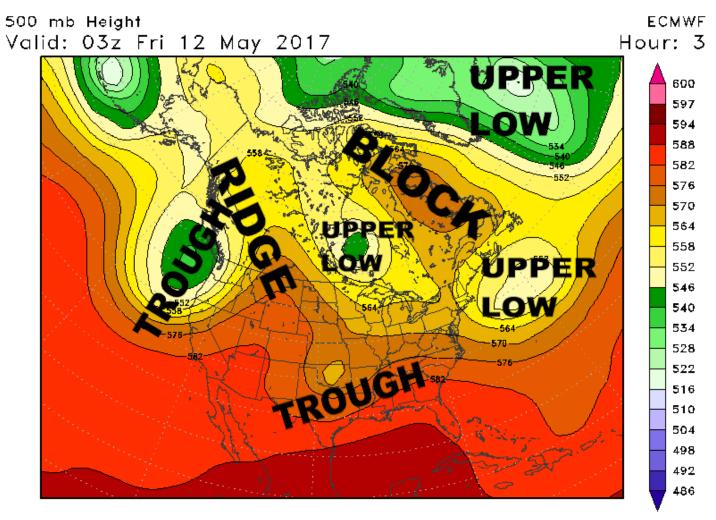
NOTE THE BLOCK has moved east to the UK – which will impact EUROPE weather aftr MAY 20

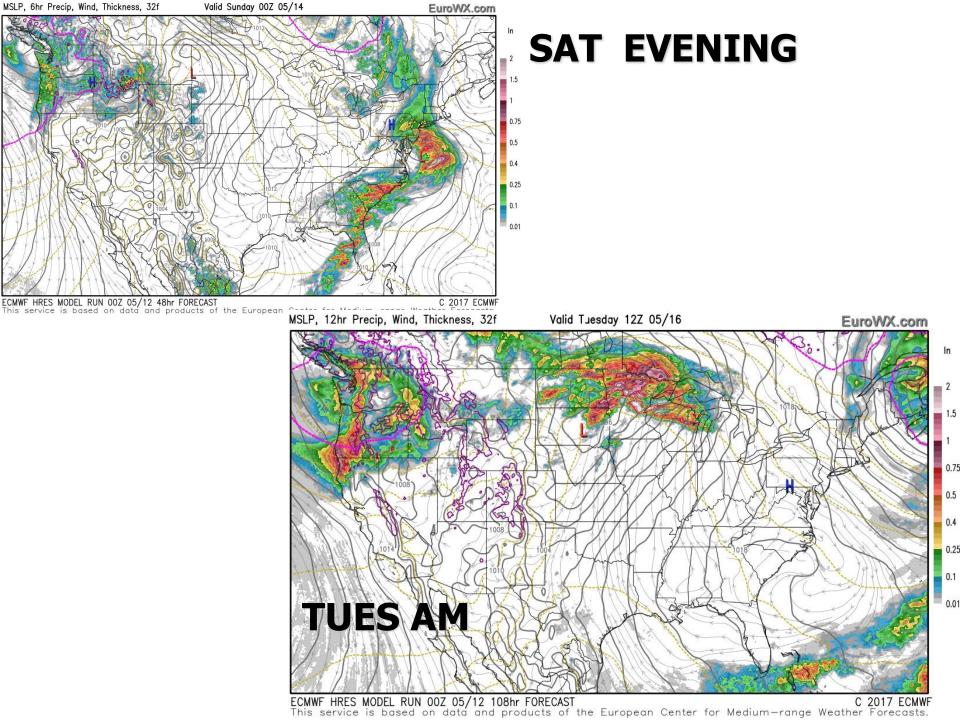
The RED color troughs are 3 mre weather systems that are likely to become rain events in last week of MAY into early JUNE

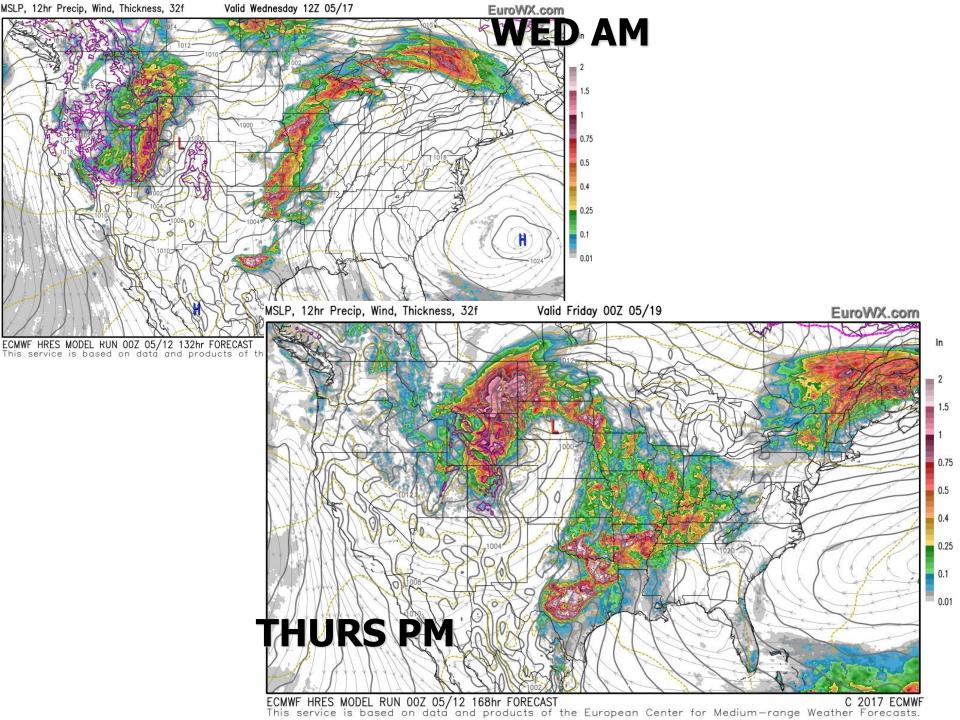
DAY 10 UPPER AIR – 500 MB PATTERN



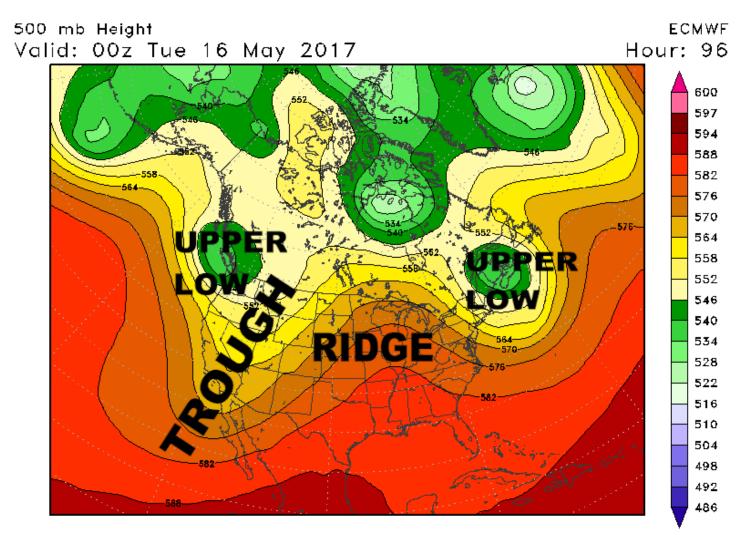
weak trough over OK stays too far south = Midwest most of Plains DRY next 5 days. But deep West coast trough comes East

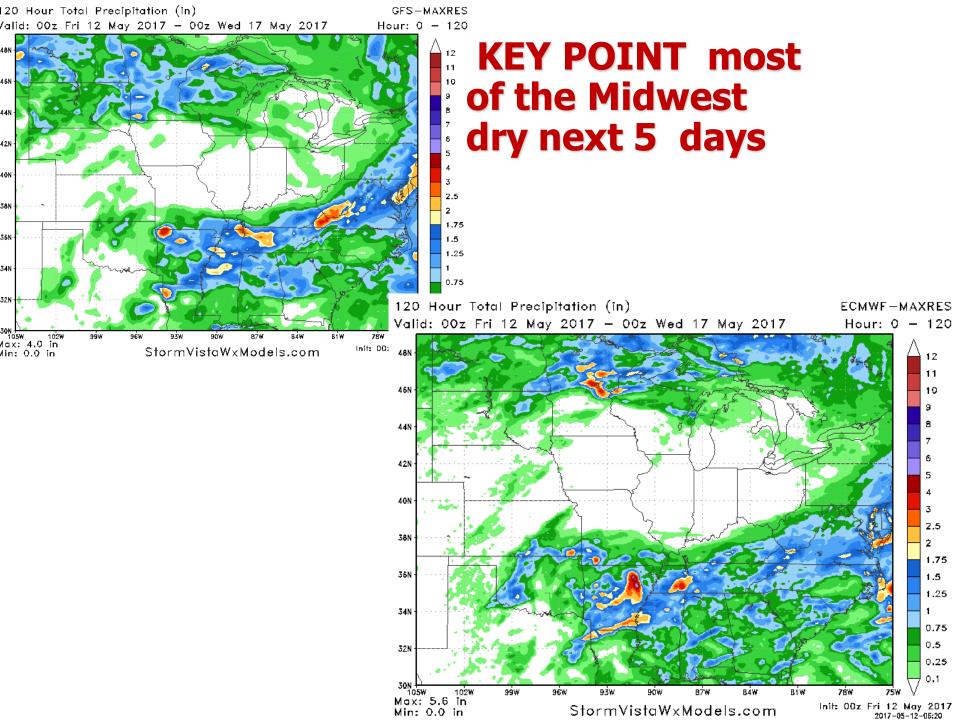


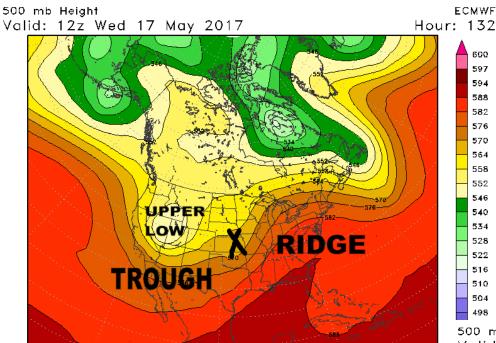




Deep troughs over West Coast * New England while large Ridge forms over Plains and Midwest = DRY 1-5 day







western US trough comes east sending out smaller " disturbances " into Plains & WCB while ECB SE states dry warm

StormVistaWxModels.com

Grads: COLA/IGES

Init: 00z Fri 12

582 576

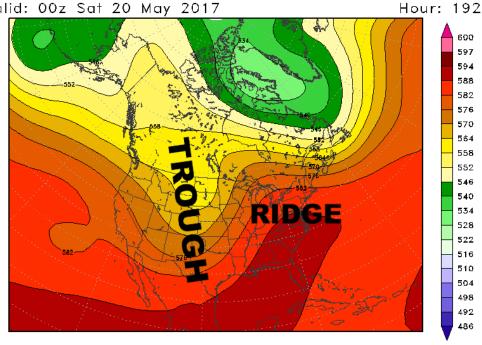
558

540 534

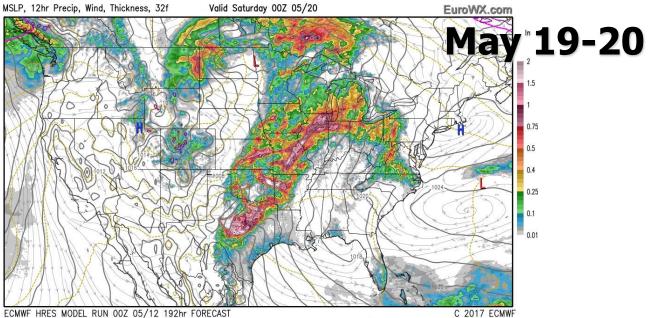
528 522 516

510 504 498

500 mb Height Valid: 00z Sat 20 May 2017

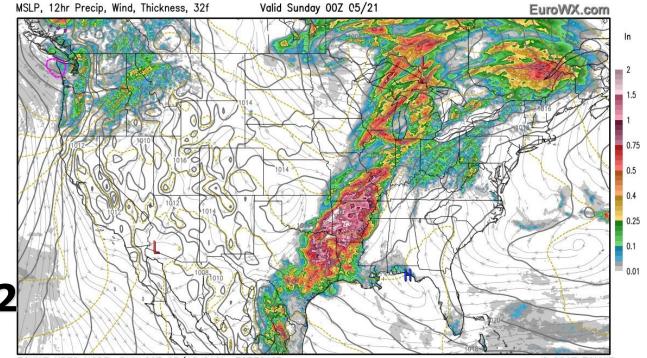


ECMWF-EPS



ECMWF HRES MODEL RUN 00Z 05/12 192hr FORECAST

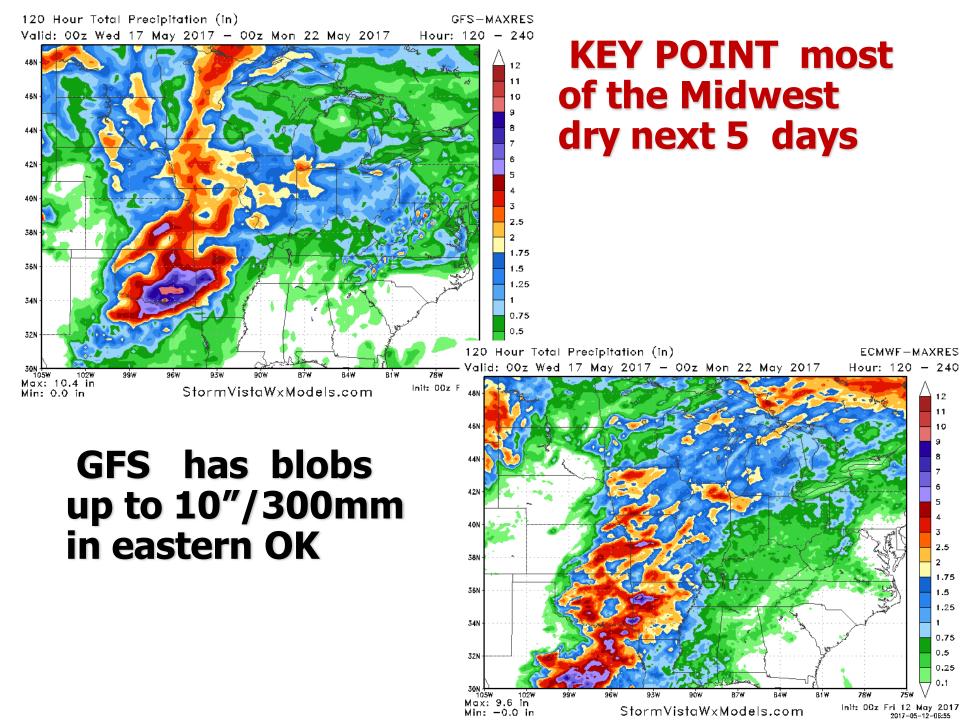
C 2017 ECMWF
This service is based on data and products of the European Center for Medium-range Weather Forecasts.

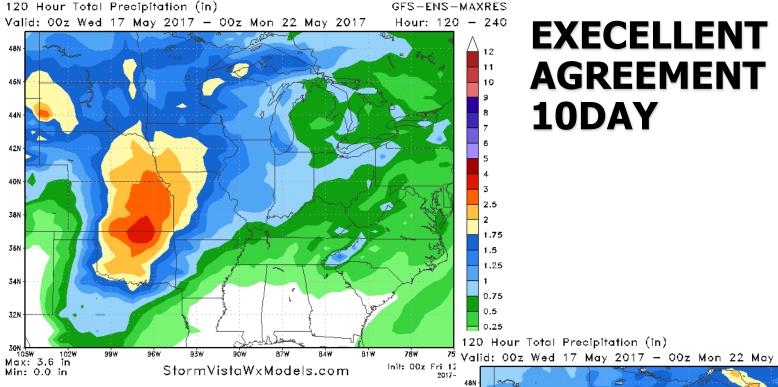


May 21-22

ECMWF HRES MODEL RUN 00Z 05/12 216hr FORECAST

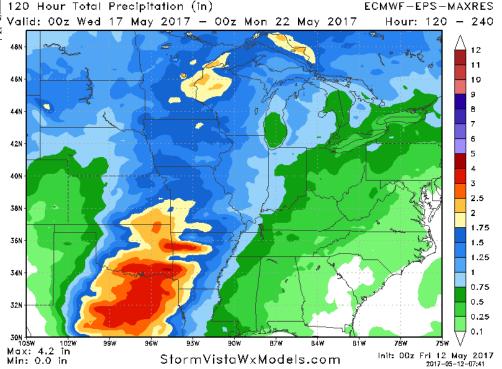
C 2017 ECMWF
This service is based on data and products of the European Center for Medium—range Weather Forecasts. C 2017 ECMWF





EXECELLENT MODEL AGREEMENT for 6-

Models keep increasing rain amounts over **Lowrer Plains** into ARK sw MO

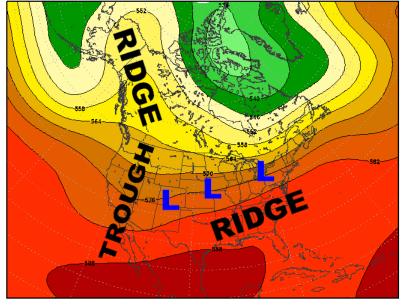


500 mb Height Valid: 12z Mon 22 May 2017



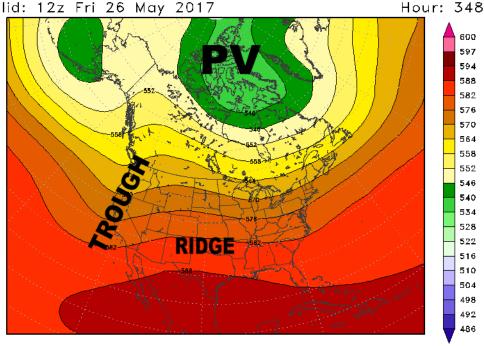
504 498

500 mb Height



C 11-15DAY features persistent West coast trough & flat ridge over **Deep South == wet** pattern for Plains Midwest

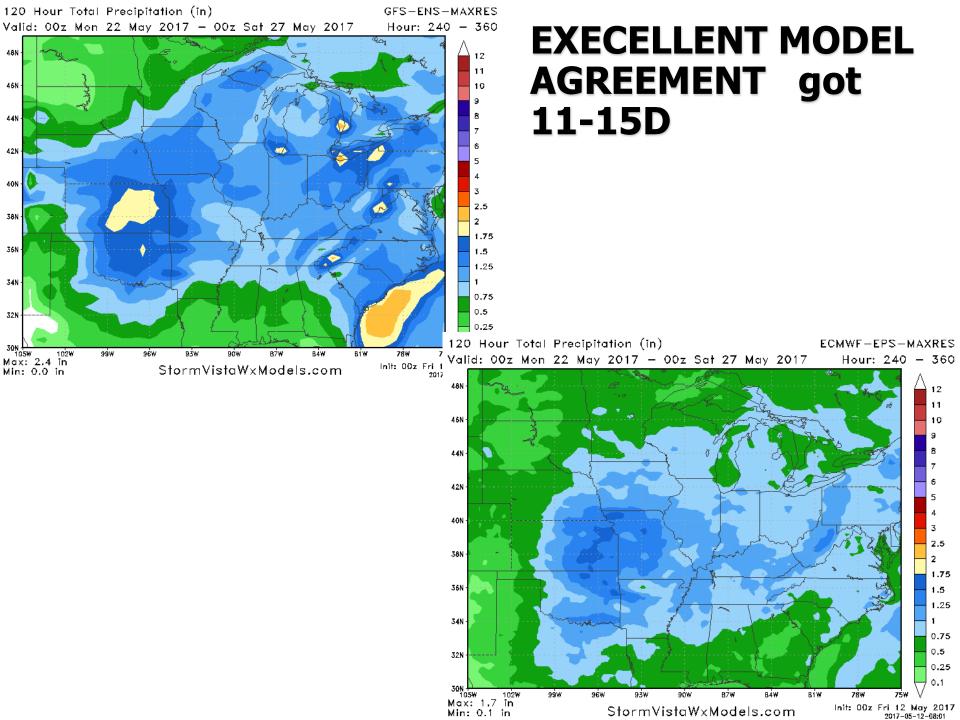
Valid: 12z Fri 26 May 2017 Init: 00z Fri 12

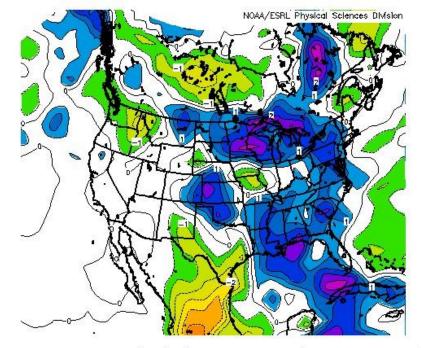


Grads: COLA/IGES

StormVistaWxModels.com

ECMWF-EPS





Surface Precipitation Rate (mm/day) Composite Anomaly (1981—2010 Climatology)

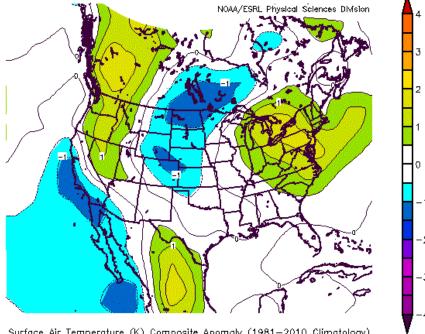
CPC Analog 16—20 Day Composite

NCEP/NCAR Reanalysis

16-20 PRECIP upper left & temps bottom right = very wet Midwest Plains and cool

ANALOG METHOD

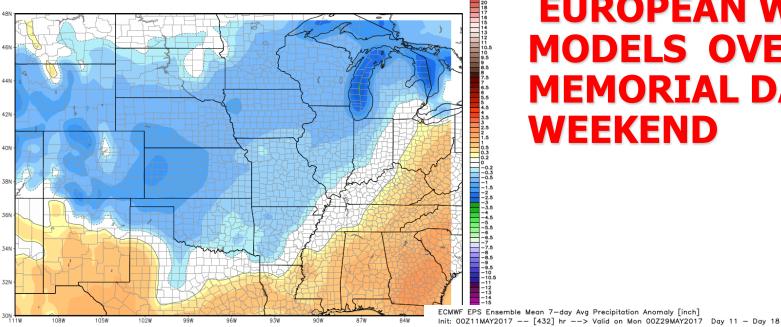
- assumes Models in 11-15D are accurate then finds top 10 analog weather patterns then continues the pattern



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

NCEP/NCAR Reanalysis

ECMWF EPS Ensemble Mean 7-day Avg 2m Temperature Anomaly [°C] Min|Max: -3.6° | 2.6°C Init: 00Z11MAY2017 -- [432] hr --> Valid on Mon 00Z29MAY2017 Day 11 - Day 18

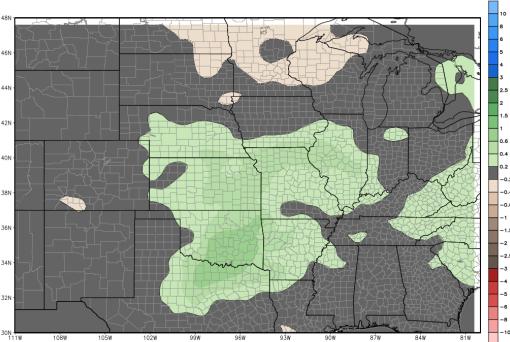


EUROPEAN WEEKLY MODELS OVER USA MEMORIAL DAY WEEKEND

Min|Max Anom: -0.6 | 1.0 inch

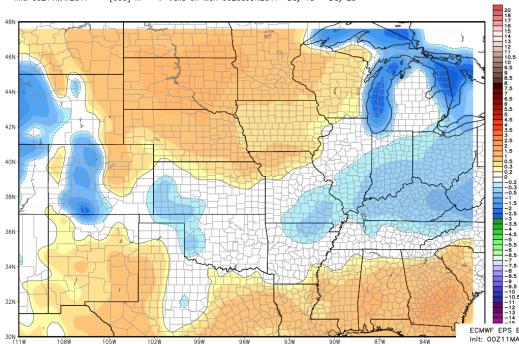
Average between 00Z22MAY2017-00Z29MAY2017 | ECMWF EPS 1997-2016 Hindcast Climatology

COOL & WET



Accumulation between 00Z22MAY2017-00Z29MAY2017 | ECMWF EPS 1997-2016 Hindcast Climatology

ECMWF EPS Ensemble Mean 7-day Avg 2m Temperature Anomaly [°C] Min|Max: -3.9° | 1.9° C Init: 00Z11MAY2017 -- [600] hr --> Valid on Mon 00Z05JUN2017 Day 18 - Day 25

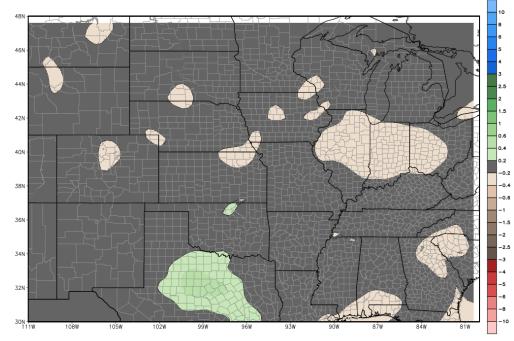


1ST WEEK OF JUNE ... WARMER DRIER ???

ECMWF EPS Ensemble Mean 7-day Avg Precipitation Anomaly [inch]
Init: 00Z11MAY2017 -- [600] hr --> Valid on Mon 00Z05JUN2017 Day 18 - Day 25

Min|Max Anom: -0.4 | 0.6 inch

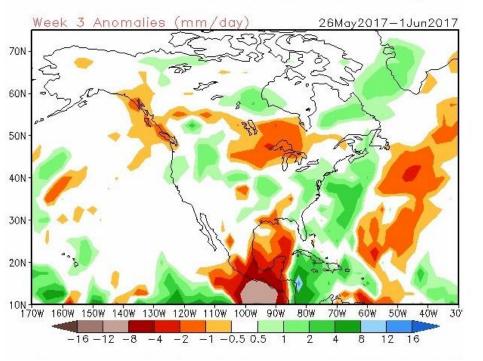
Average between 00Z29MAY2017-00Z05JUN2017 | ECMWF EPS 1997-2016 Hindcast Climatology

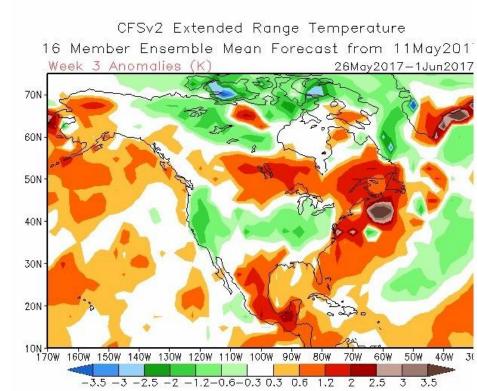


Accumulation between 00Z29MAY2017-00Z05JUN2017 | ECMWF EPS 1997-2016 Hindcast Climatology

CFS FROM MAY 11 valid 5/26-6/1

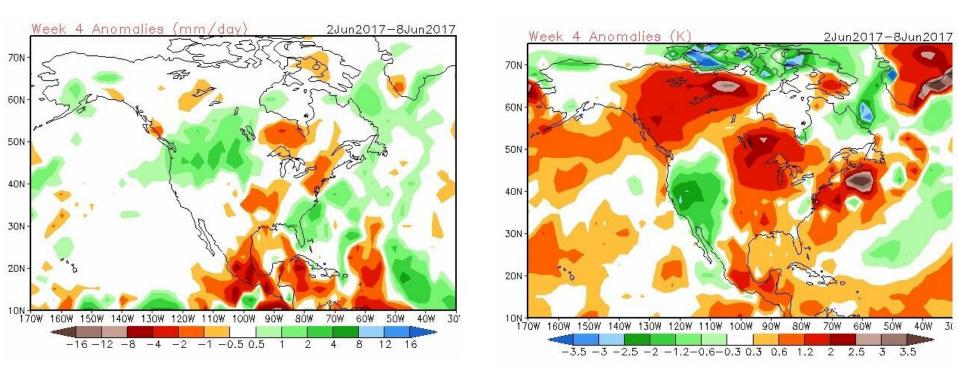
CFSv2 Weeks 3 & 4 Precipitation 16 Member Ensemble Mean Forecast from 11May2017





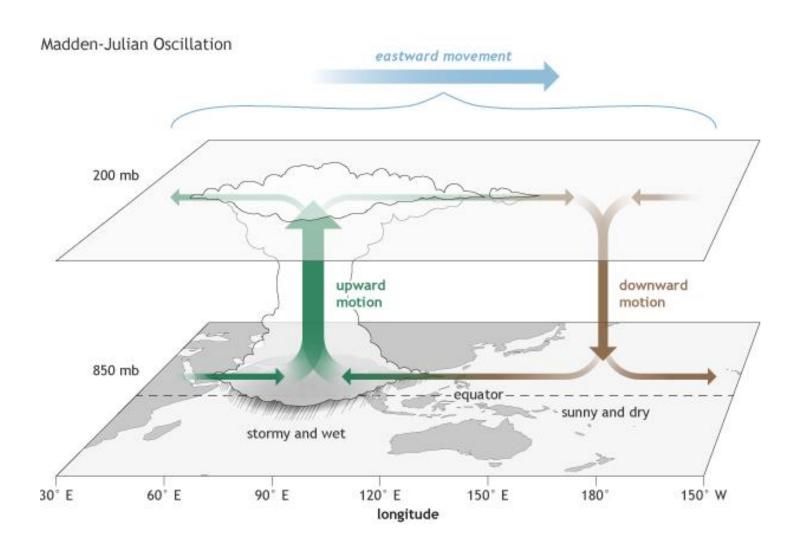
looks fairly wet central Plains & Midwest & cool

CFS FROM MAY 11 valid 6/2-6/8

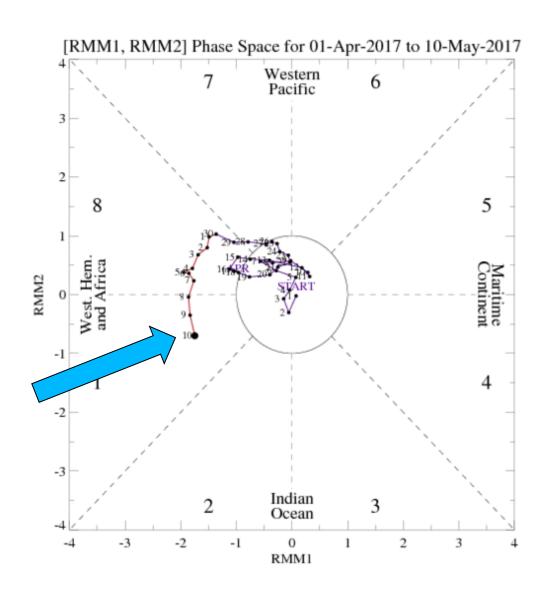


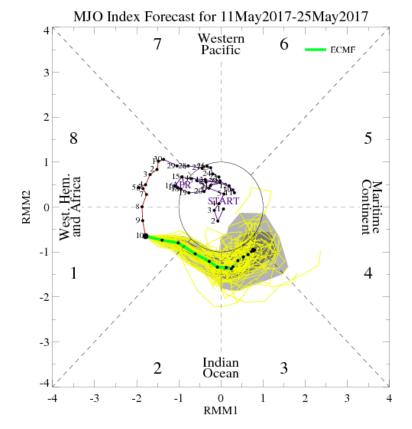
WET over Upper Plains into south Canada WARMER over all of Plains Midwest

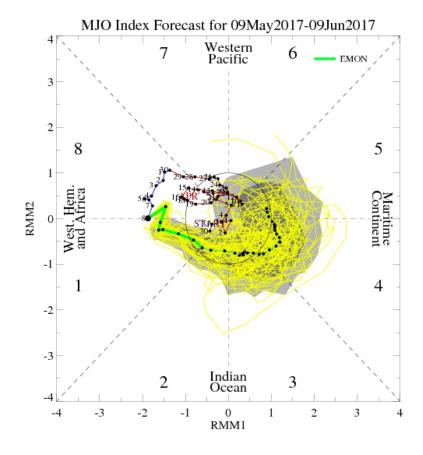
LETS TALK MJO/ENSO



MJO NOW IN NEUTRAL







MJO IN PHASE 2 & 3 = turning WETTER over central Plains & Most of the Midwest with BELOW NORMAL TEMPS ALL AREAS

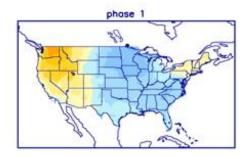
P composites (AMJ)







T composites (AMJ)







EL NINO/SOUTHERN OSCILLATION (ENSO) DIAGNOSTIC DISCUSSION

issued by

CLIMATE PREDICTION CENTER/NCEP/NWS and the International Research Institute for Climate and Society 11 May 2017

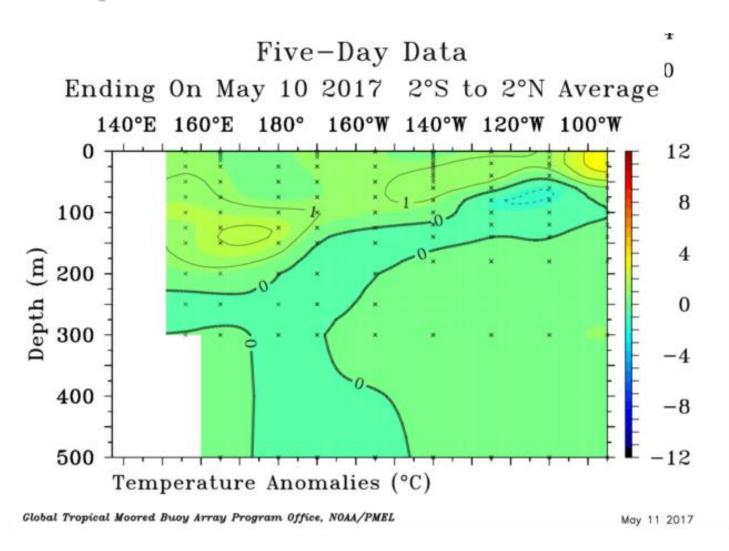
ENSO Alert System Status: Not Active

Synopsis: ENSO-neutral and El Niño are nearly equally favored during the Northern Hemisphere summer and fall 2017.

ENSO-neutral persisted during April, with near-average sea surface temperatures (SSTs) observed across the central equatorial Pacific and above-average SSTs in the eastern Pacific (Fig. 1). The latest weekly Niño index values were +0.5°C in the Niño-3 and Niño-3.4 regions, and +0.3 and +0.8°C in the Niño-4 and Niño-1+2 regions, respectively (Fig. 2). The upper-ocean heat content anomaly was slightly positive during April (Fig. 3), reflecting the strengthening of above-average temperatures at depth around the Date Line (Fig. 4). Atmospheric convection anomalies were weak over the central tropical Pacific and Maritime Continent (Fig. 5), while the lower-level and upper-level winds were near average over most of the tropical Pacific. Overall, the ocean and atmosphere system remains consistent with ENSO-neutral

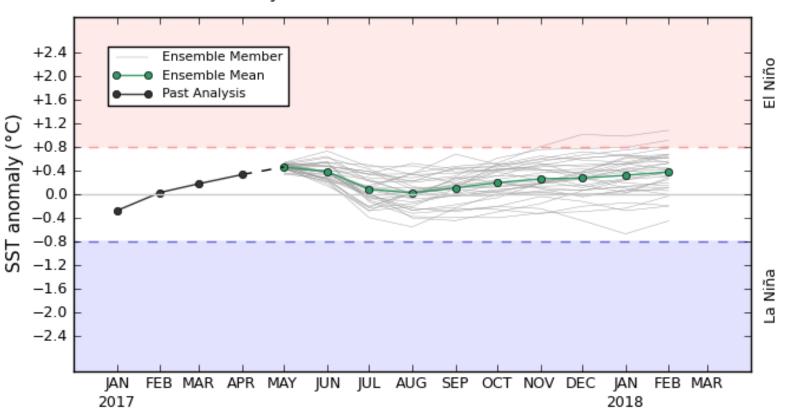
Most models predict the onset of El Niño (3-month average Niño-3.4 index at or greater than 0.5°C) during the Northern Hemisphere summer (Fig. 6). However, the NCEP CFSv2 and most of the statistical models are more conservative and indicate that while Niño-3.4 index may be near or greater than +0.5°C for several months, the warmth may not last long enough to qualify as an El Niño episode (5 consecutive overlapping seasons) and/or may not significantly impact the atmospheric circulation. Relative to last month, the forecaster consensus reflects slightly lower chances of El Niño (~45%), in part due to the conflicting model guidance and lack of a clear shift toward El Niño in the observational data. In summary, while chances are slightly lower than 50%, ENSO-neutral and El Niño are nearly equally favored during the Northern Hemisphere summer and fall 2017 (click CPC/IRI consensus forecast for the chance of each outcome for each 3-month period).

still a lot of cold SSTAs just under the surface as of MAY 10 = Restricting El Nino development

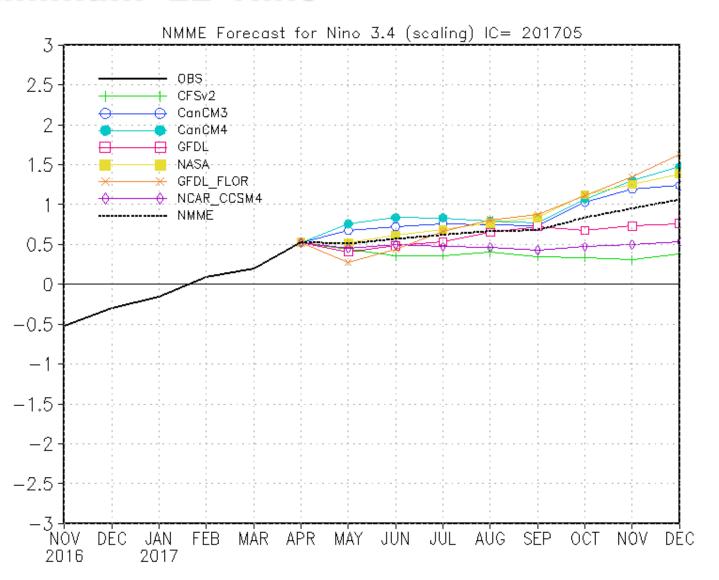


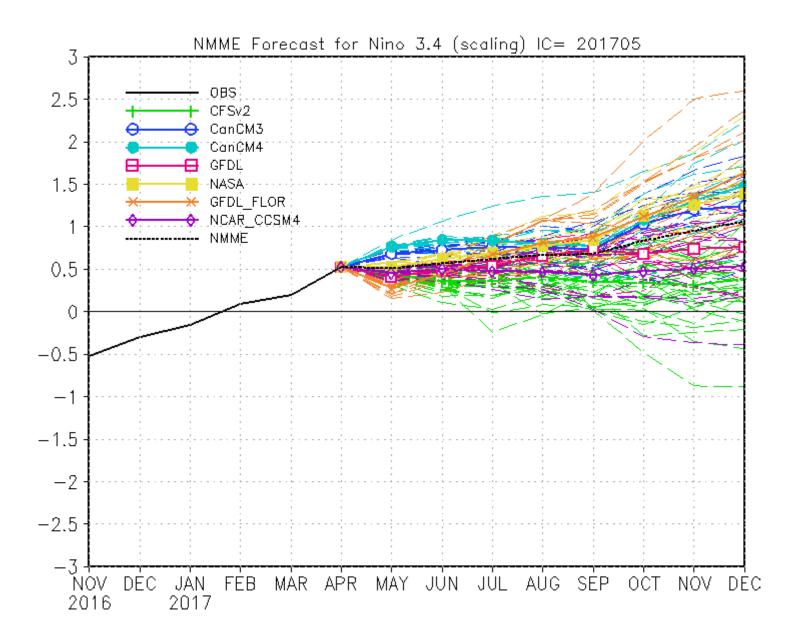
NEW AUSTRALIAN ENSO MODEL — again shows NO El Nino— actual COOLING in July August

POAMA monthly mean NINO34 - Forecast Start: 7 MAY 2017



various forecast models used in the NMME NATIONAL ENSEMBLE MEAN. At Best minimum EL Nino

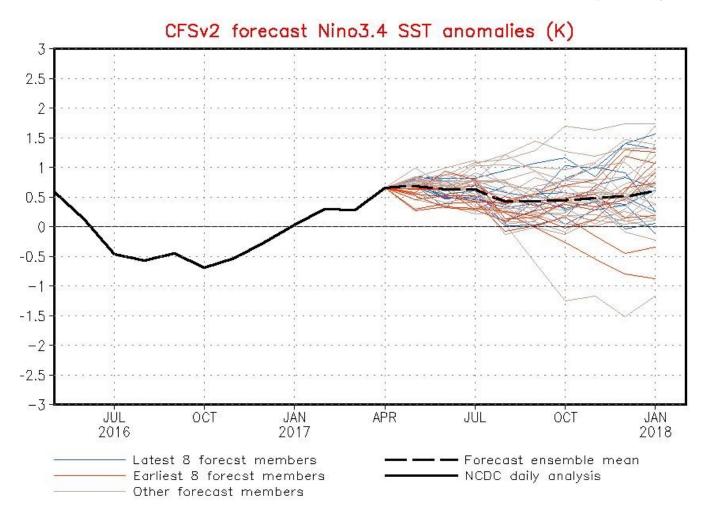




CFS FROM MAY 4 - based on data 4/23-5/2

NWS/NCEP/CPC

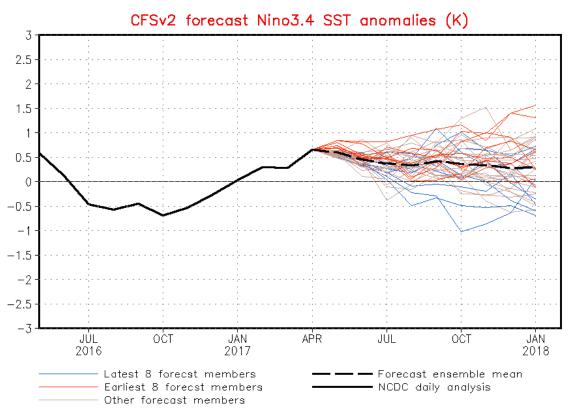
Last update: Thu May 4 2017 Initial conditions: 23Apr2017—2May2017



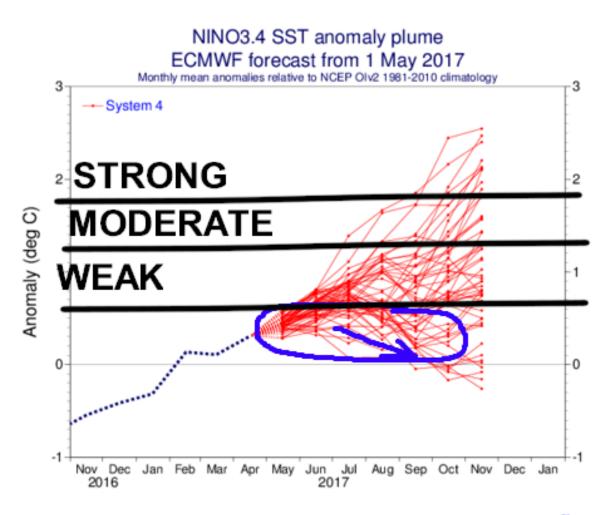
CFS FROM MAY 12 - based on data 5/1-5/10.. Looks cooler weaker. Again Notice how DASHED line drops down weakens in JULY AUG



Last update: Fri May 12 2017 Initial conditions: 1May2017-10May2017



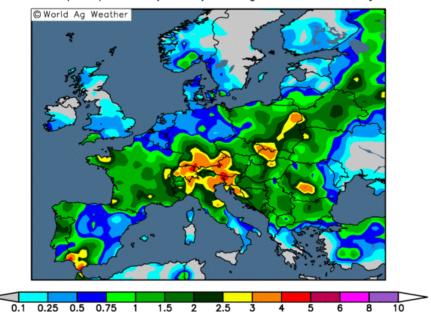
CEURO ENSO MODEL – 51 members issued MAY6- Again Notice how cluster of members that shows weakens in JULY AUG



EUROPE CHINA GRAIN WEATHER

14-day Precipitation Analysis

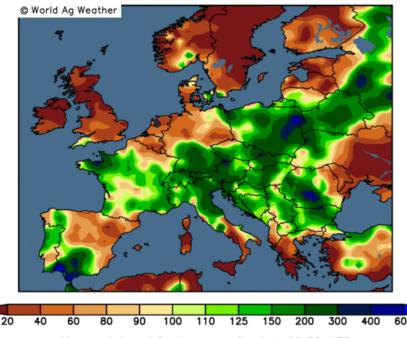
Observed precipitation (inches) through 12 UTC 10 May 2017



Map updates daily by approximately 20:30 UTC

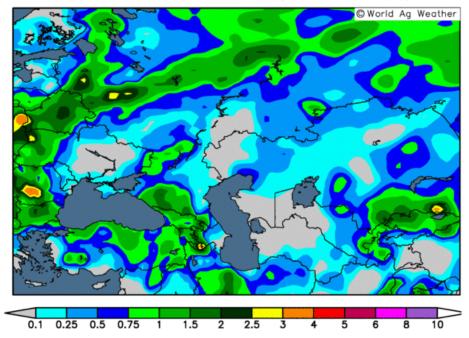
EUROPE IN GOOD SHAPE WITH RAINS LAST 2 WEEKS

14-day Precipitation Analysis
Percent of normal through 12 UTC 10 May 2017



Map updates daily by approximately 20:30 UTC

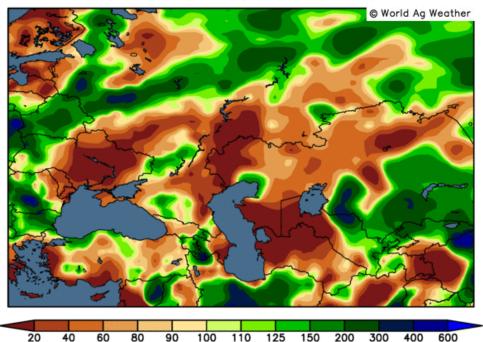
14—day Precipitation Analysis
Observed precipitation (inches) through 12 UTC 10 May 2017



Map updates daily by approximately 20:30 UTC

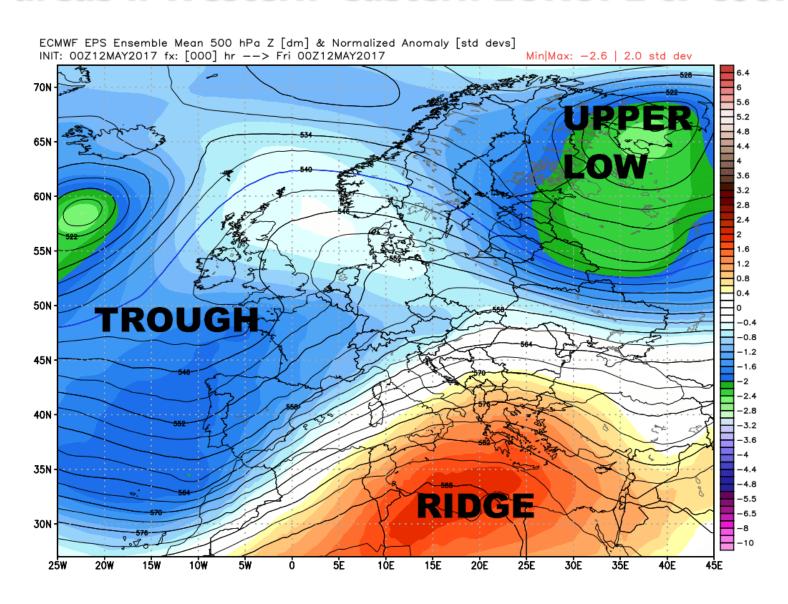
UKRAINE & MUCH OF SW RUSSIA DRY LAST 2 WEEKS

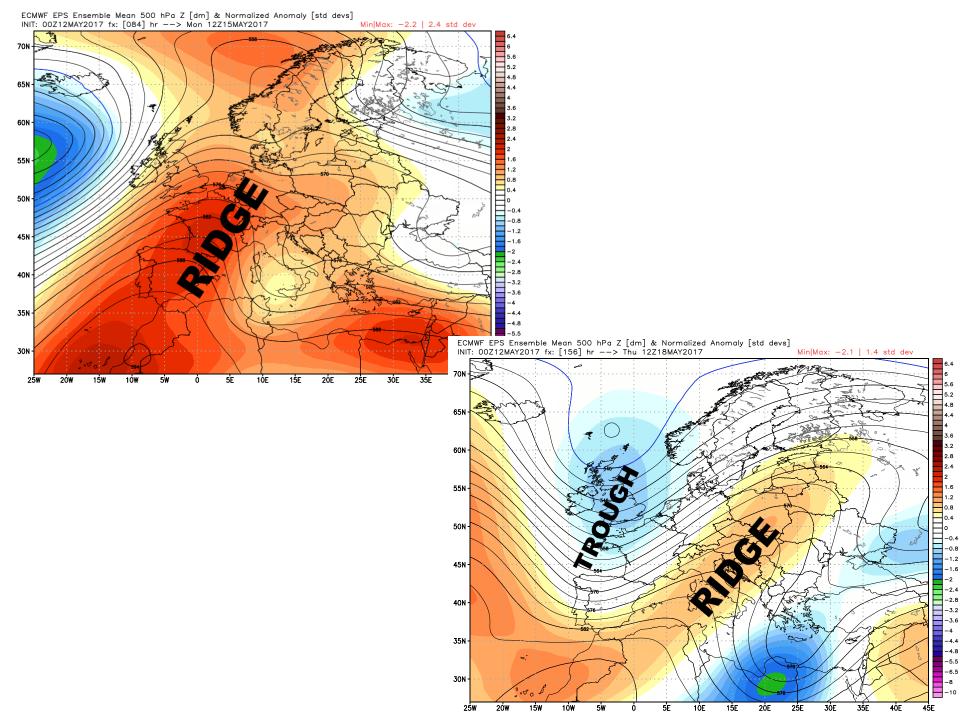
14—day Precipitation Analysis
Percent of normal through 12 UTC 10 May 2017

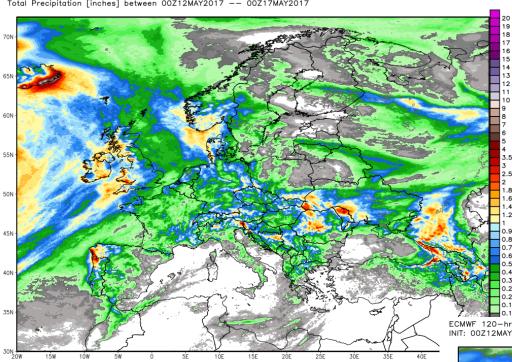


Map updates daily by approximately 20:30 UTC

Currnet weather pattern = wet for all areas .. Western eastern EUROPE & cool

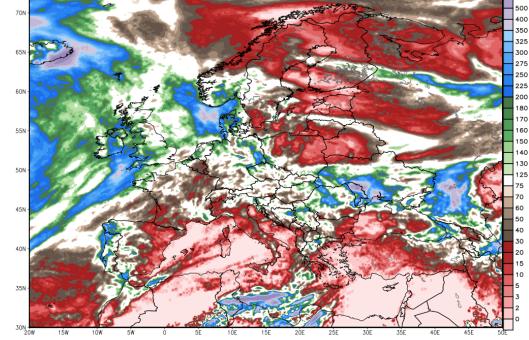


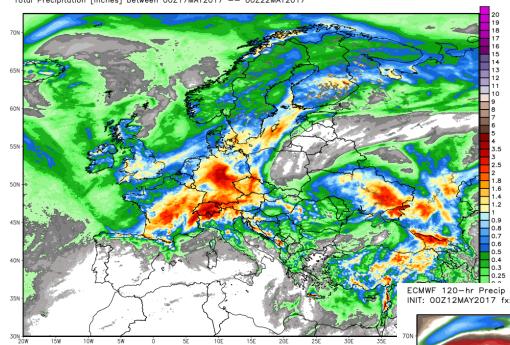




Moderate rains over much of Europe 1-2"/25-50mm over much of UKRAINE & SOUTHERN District

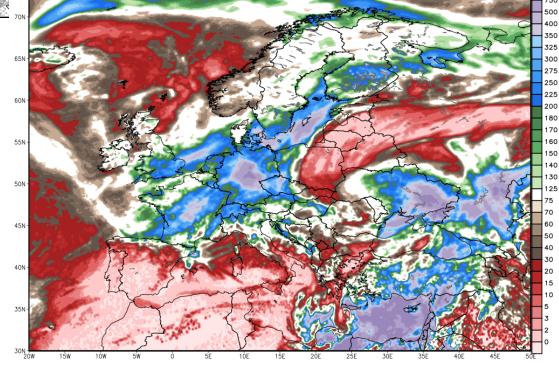
ECMWF 120-hr Precip Anomaly [% of normal] between 00Z12MAY2017 -- 00Z17MAY2017 | INIT: 00Z12MAY2017 fx: [120] hr --> Wed 00Z17MAY2017



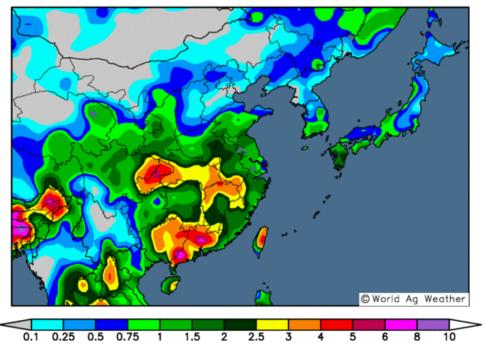


6-10D = 0.75-3.0" / 20-75mm over central eastern FR much of GER & eastern UKRAINE & SOUTHERN Districts

ECMWF 120-hr Precip Anomaly [% of normal] between 00Z17MAY2017 -- 00Z22MAY2017 | INIT: 00Z12MAY2017 fx: [240] hr --> Mon 00Z22MAY2017



Observed precipitation (inches) through 12 UTC 10 May 2017

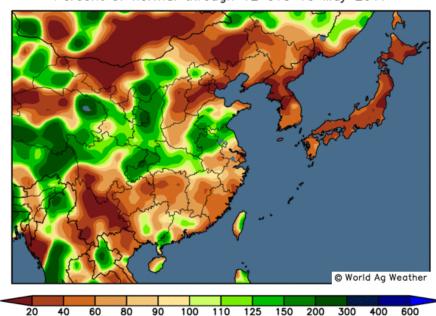


Map updates daily by approximately 20:30 UTC

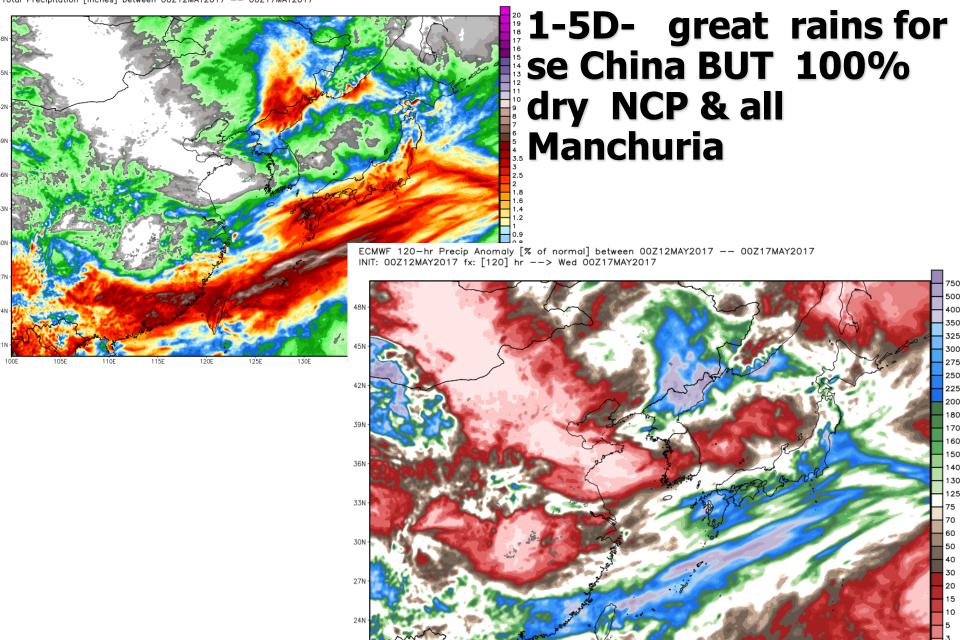
southern half NCP wet ..southern half of China dry

northern half of NCP & MANCHURIA very dry last 14 days

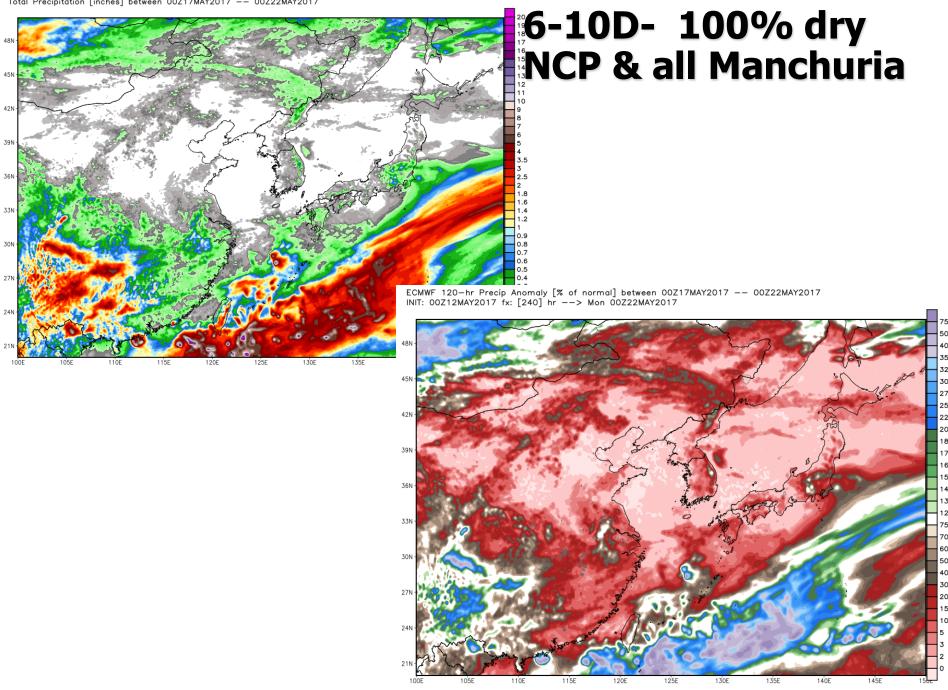
14—day Precipitation Analysis
Percent of normal through 12 UTC 10 May 2017

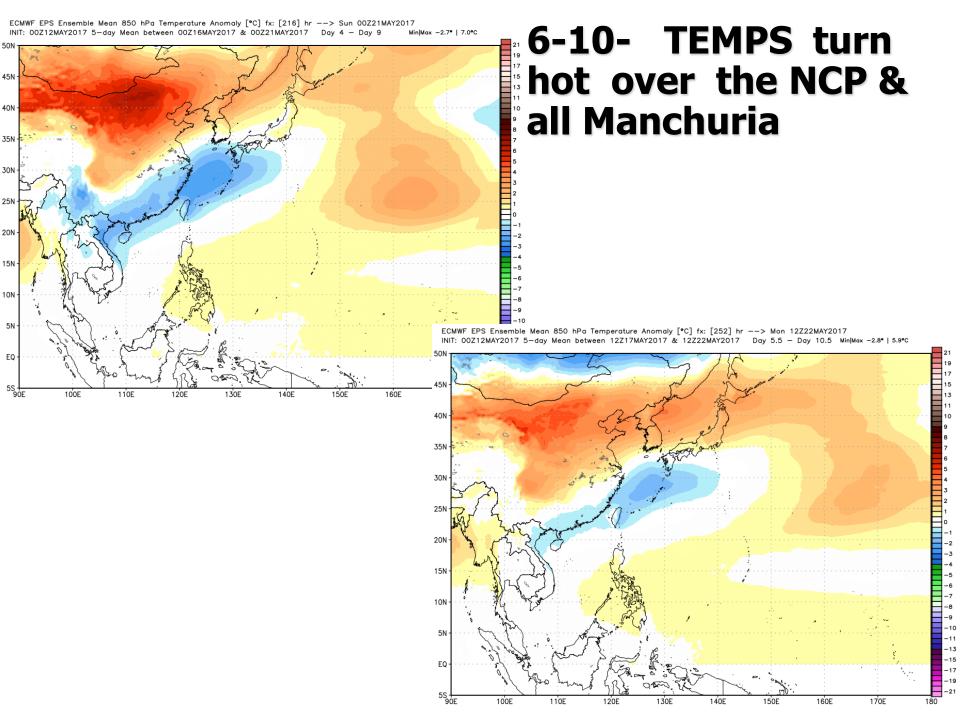


Map updates daily by approximately 20:30 UTC



135E





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

