WxRisk.com

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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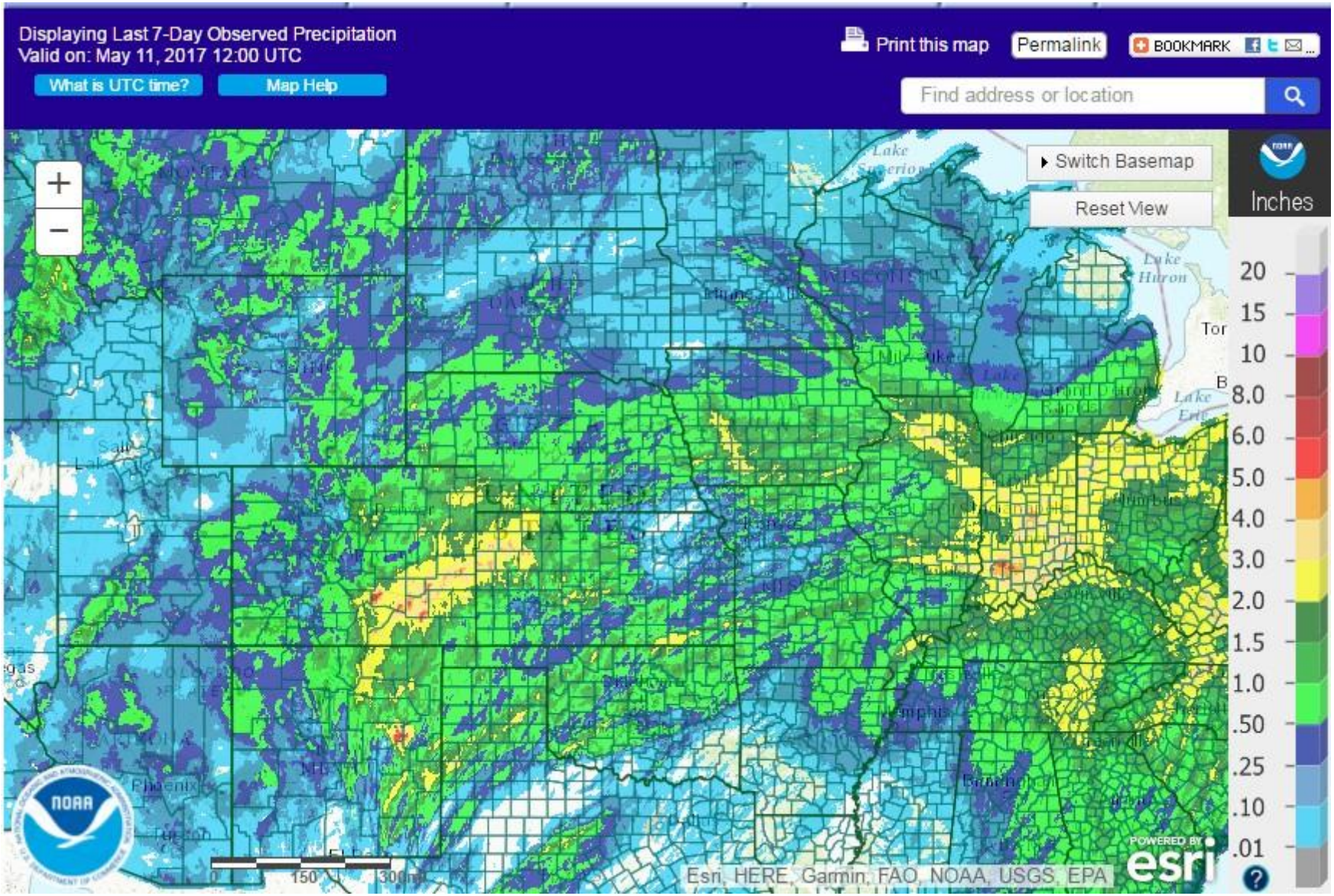
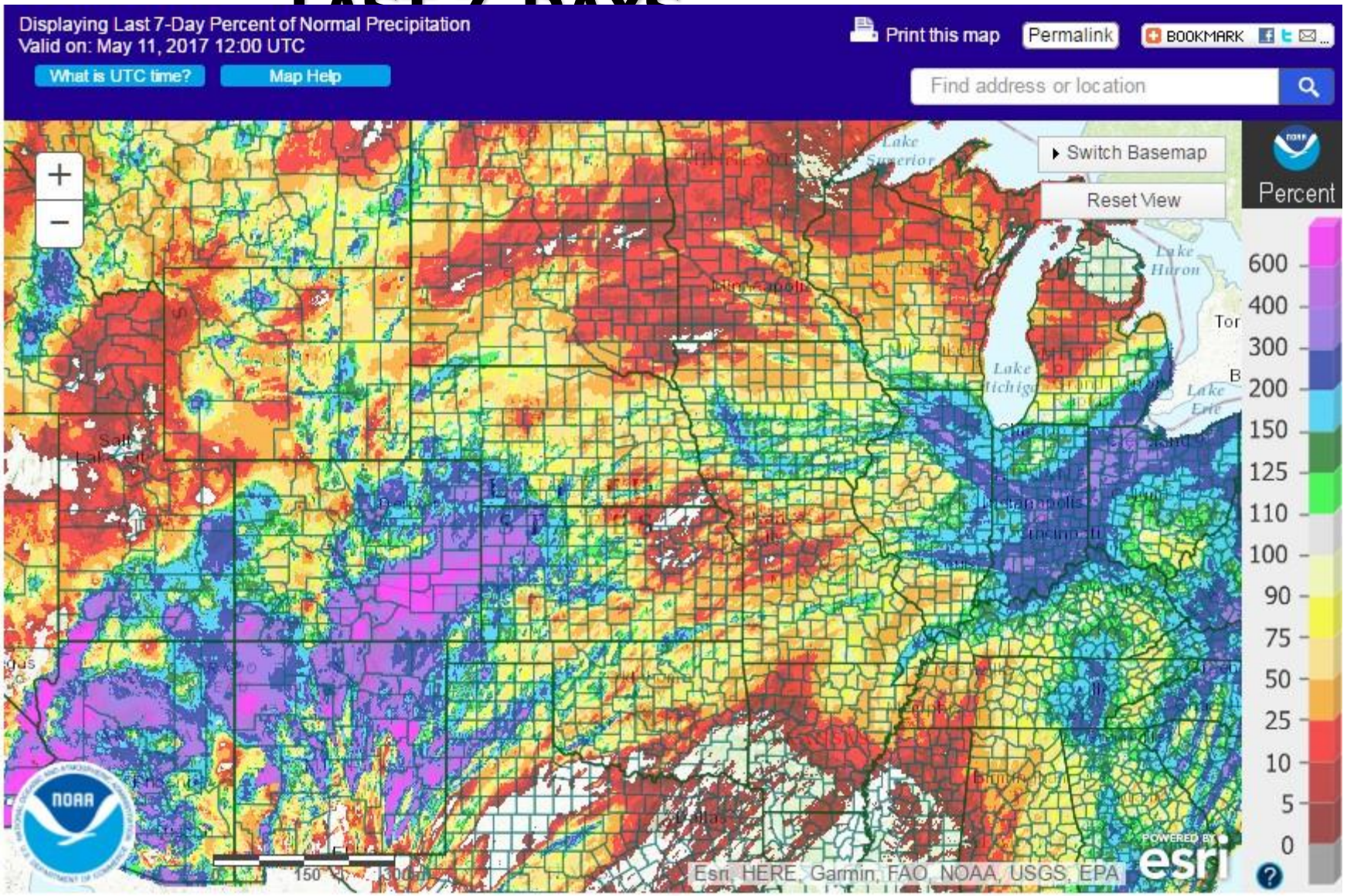
Who we are

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.

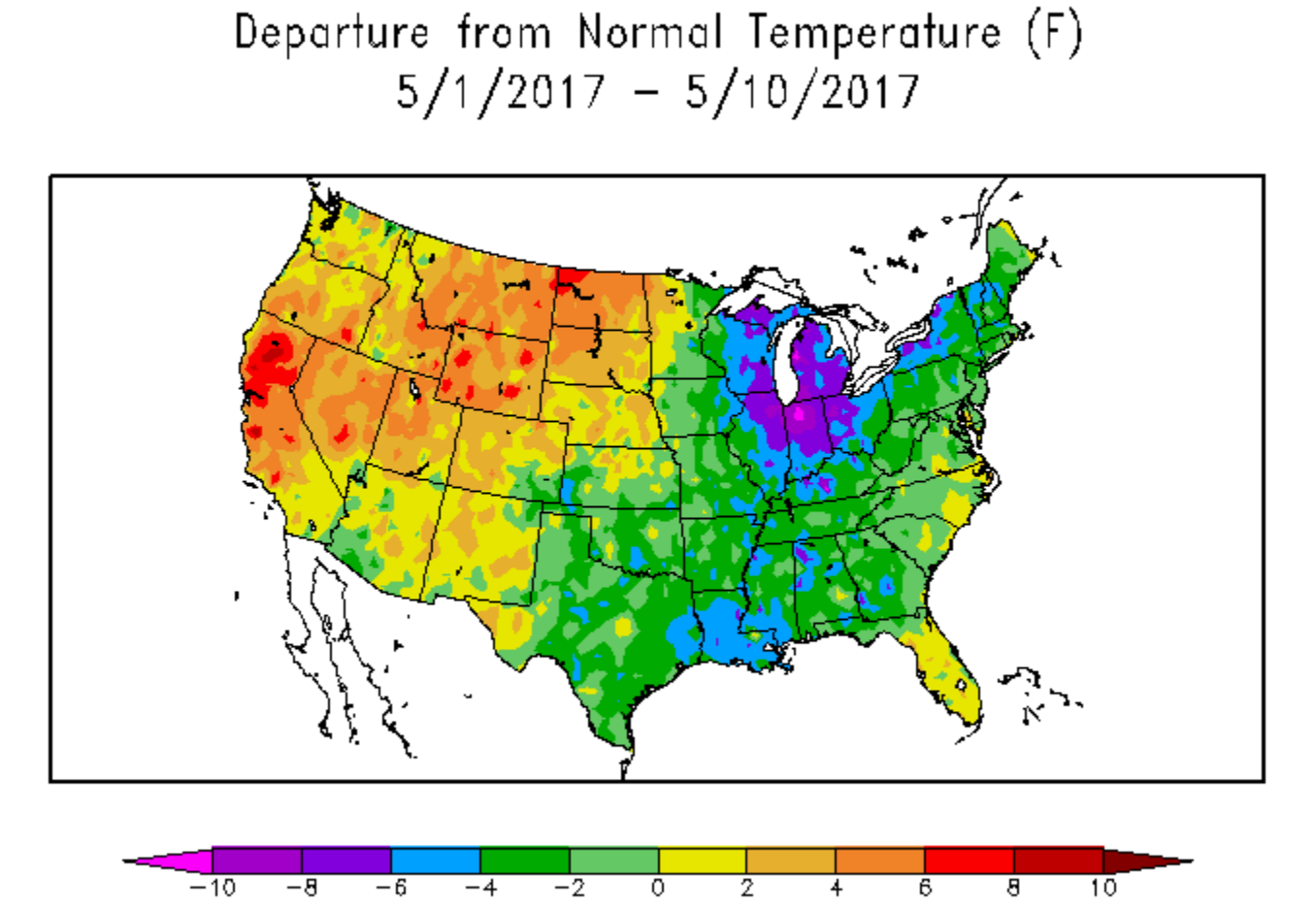
RAINFALL LAST 7 DAYS



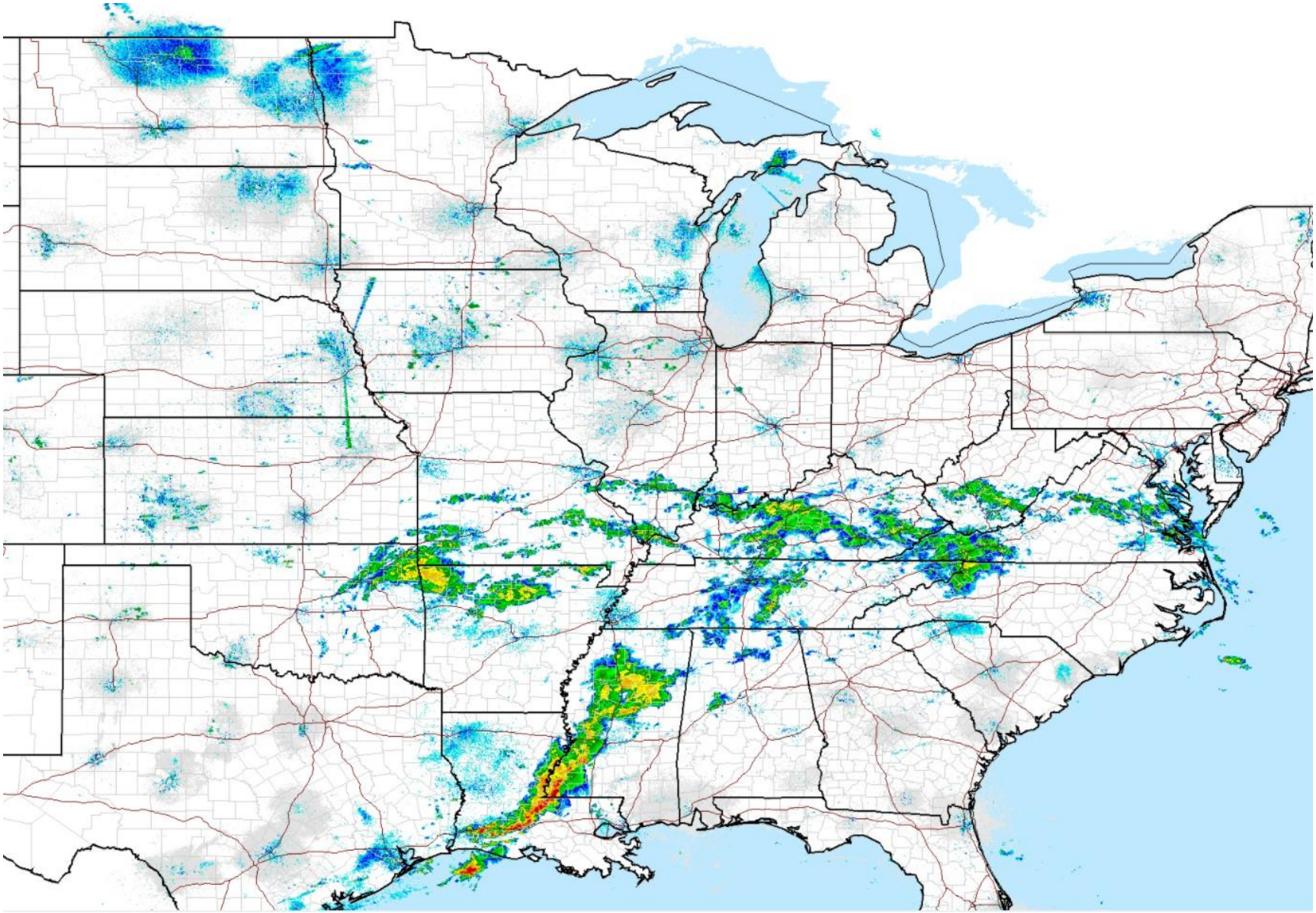
PRECIP ANOMALIES LAST 7 DAYS



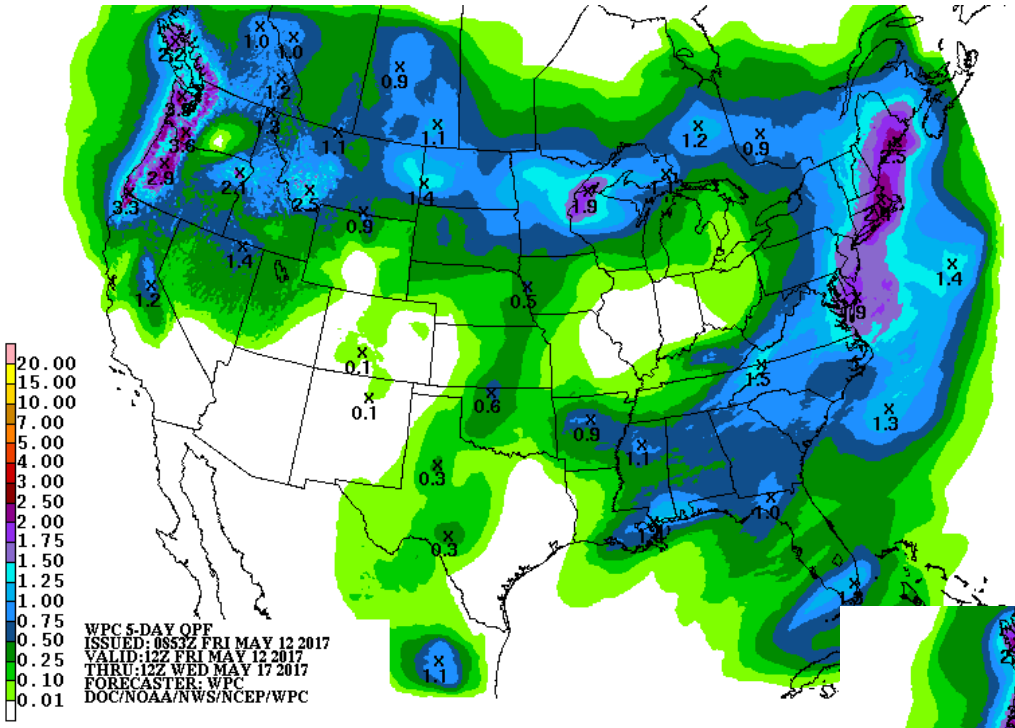
TEMP ANOMALIES LAST 7 DAYS



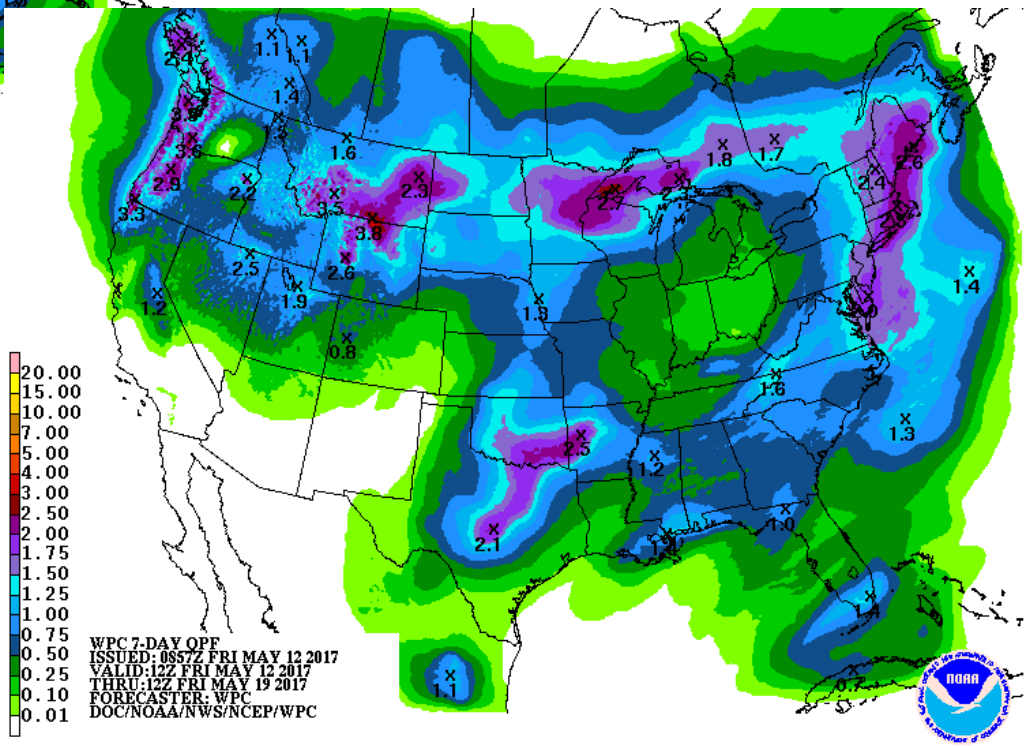
FRI AM RADAR



NWS OFFICIAL RAINFALL NEXT 5 DAYS



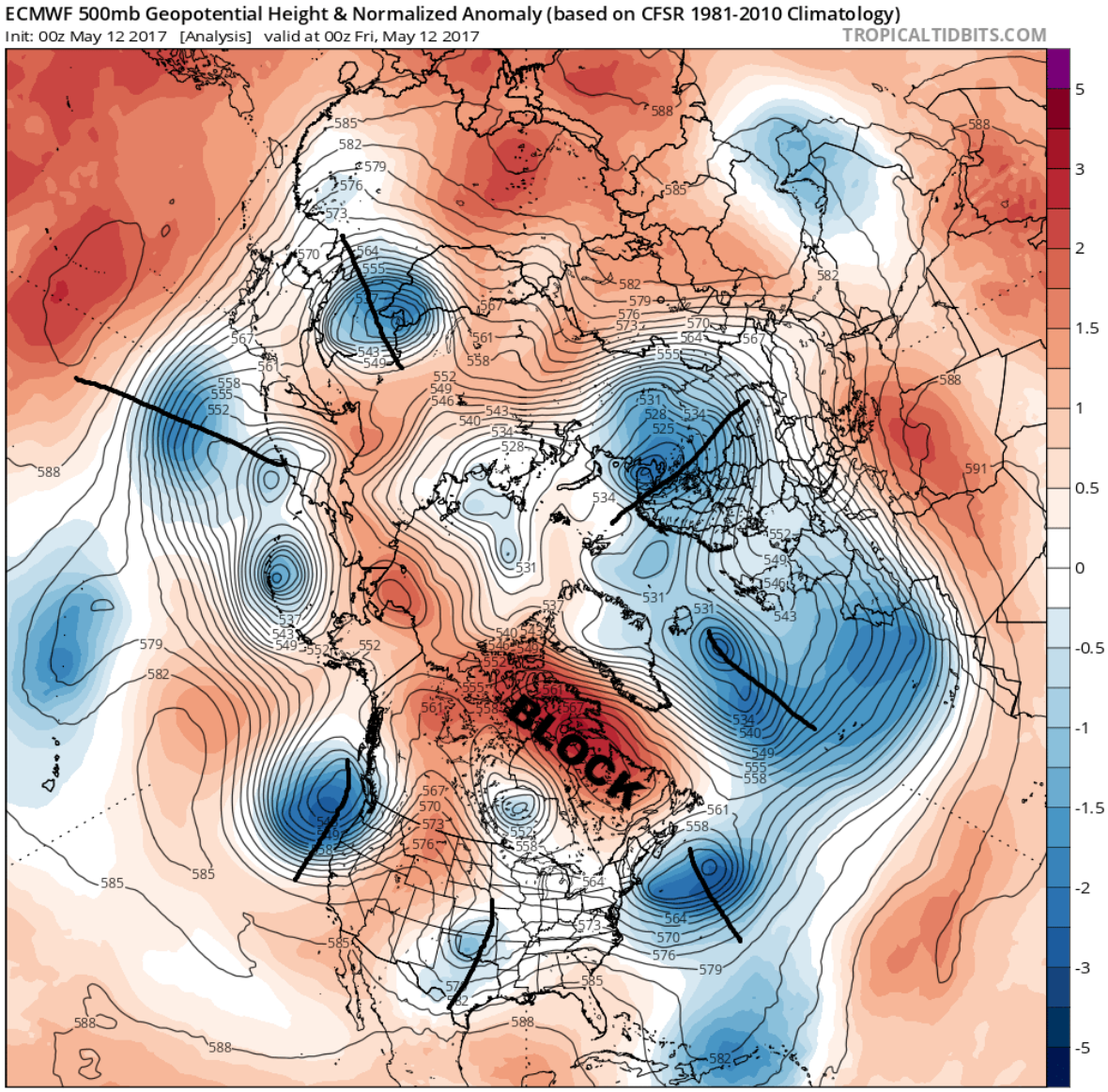
NWS OFFICIAL RAINFALL NEXT 7 DAYS - note that there is significant new rain fall in DAY 6 & 7



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.

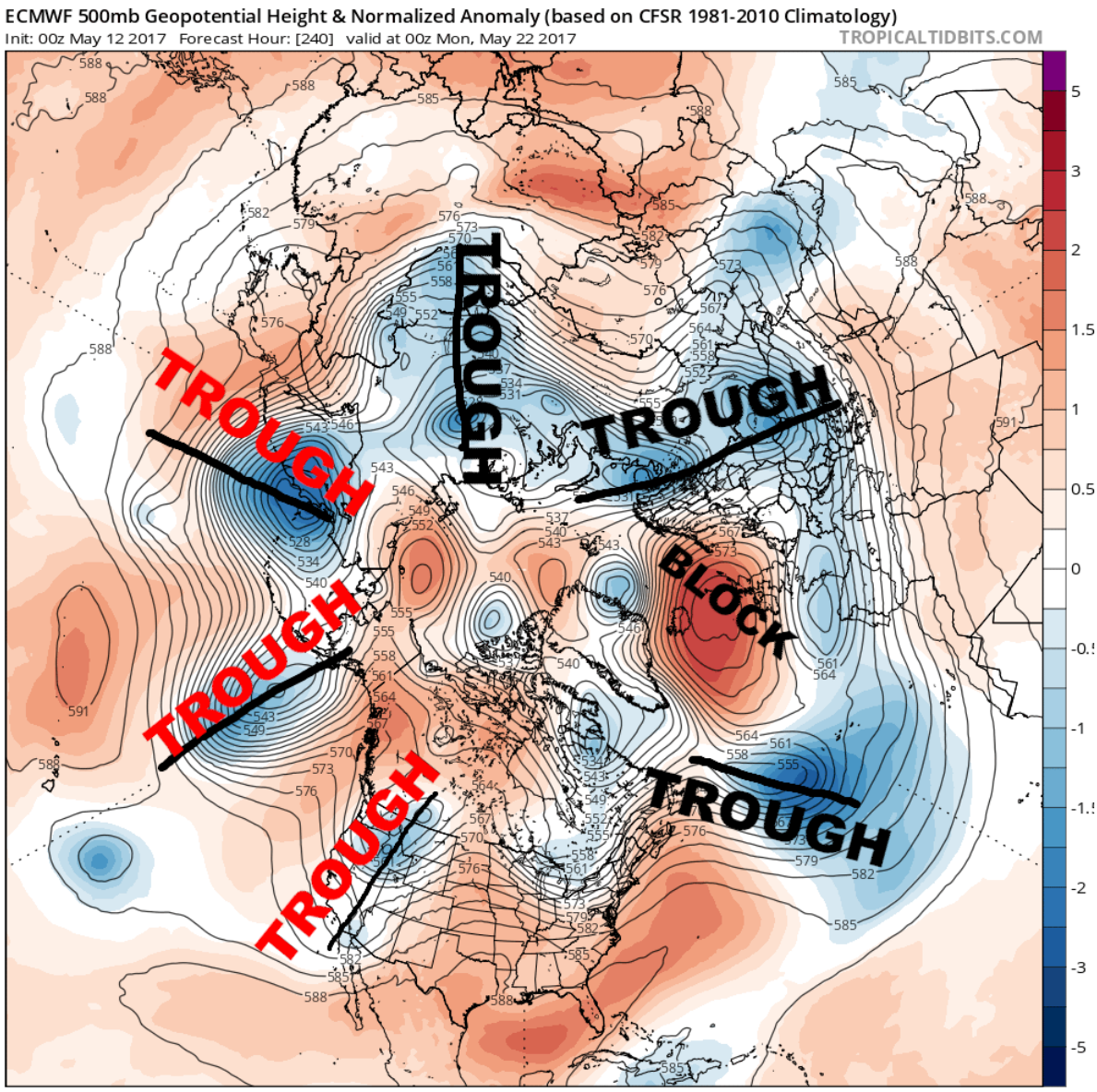
Also note the numerous TROUGHS evenly spaced around the world



DAY 10 UPPER AIR – 500 MB PATTERN

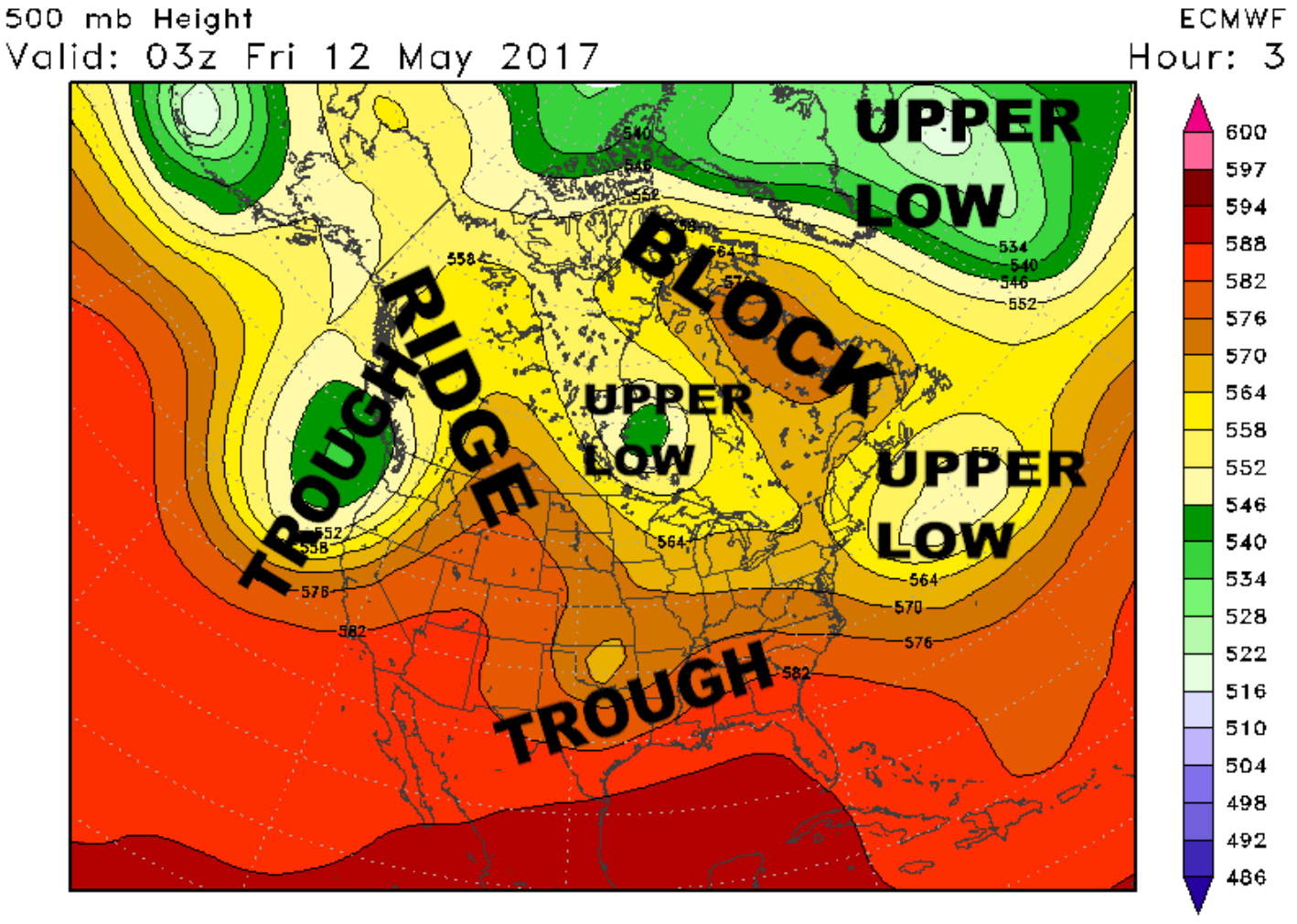
NOTE THE BLOCK has moved east to the UK – which will impact EUROPE weather aftr MAY 20

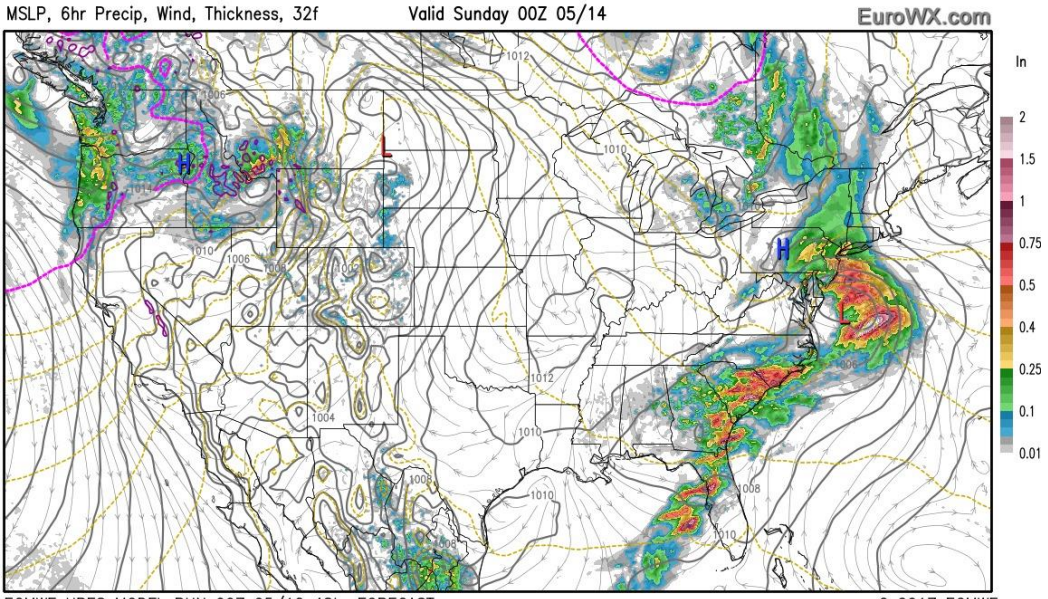
The RED color troughs are 3 mre weather systems that are likely to become rain events in last week of MAY into early JUNE



weak trough over OK stays too far south = Midwest most of Plains DRY next 5 days.

But deep West coast trough comes East




MSLP, 6hr Precip, Wind, Thickness, 32f
Valid Sunday 00Z 05/14
EuroWX.com
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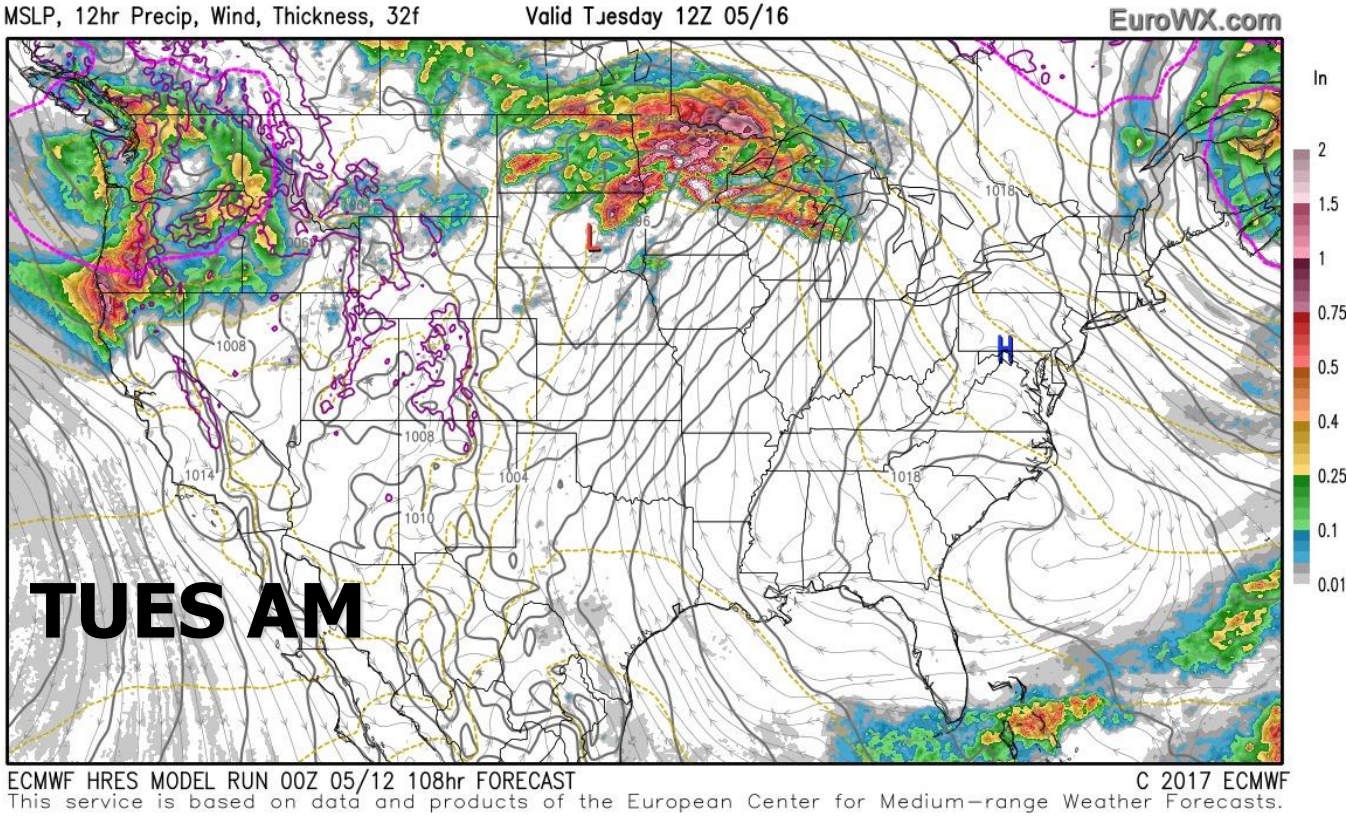
ECMWF HRES MODEL RUN 00Z 05/12 48hr FORECAST
C 2017 ECMWF
This service is based on data and products of the European

SAT EVENING


MSLP, 12hr Precip, Wind, Thickness, 32f
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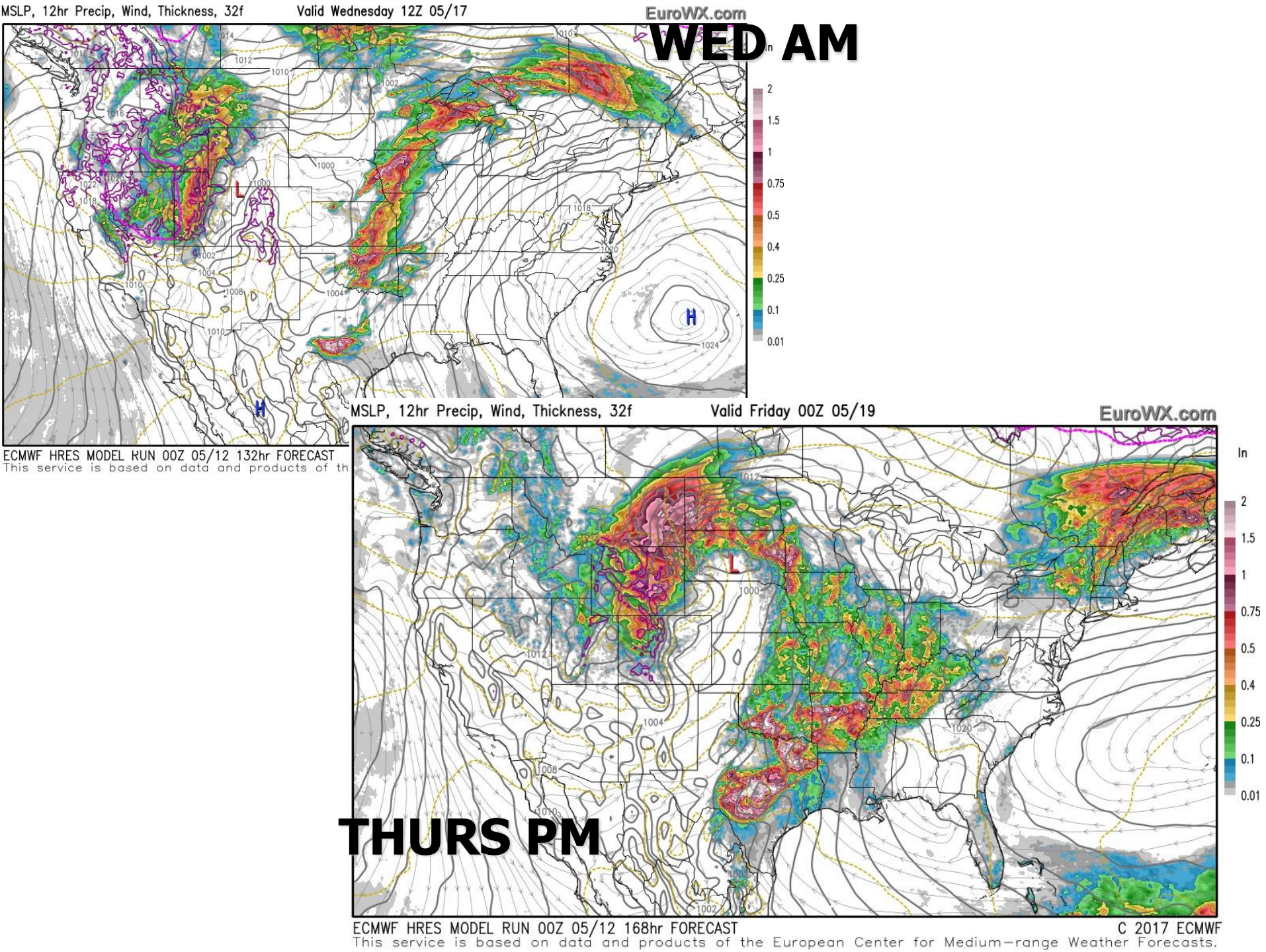
ECMWF HRES MODEL RUN 00Z 05/12 108hr FORECAST
C 2017 ECMWF
This service is based on data and products of the European Center for Medium-range Weather Forecasts.


MSLP, 12hr Precip, Wind, Thickness, 32f
Valid Wednesday 12Z 05/17
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WED AM
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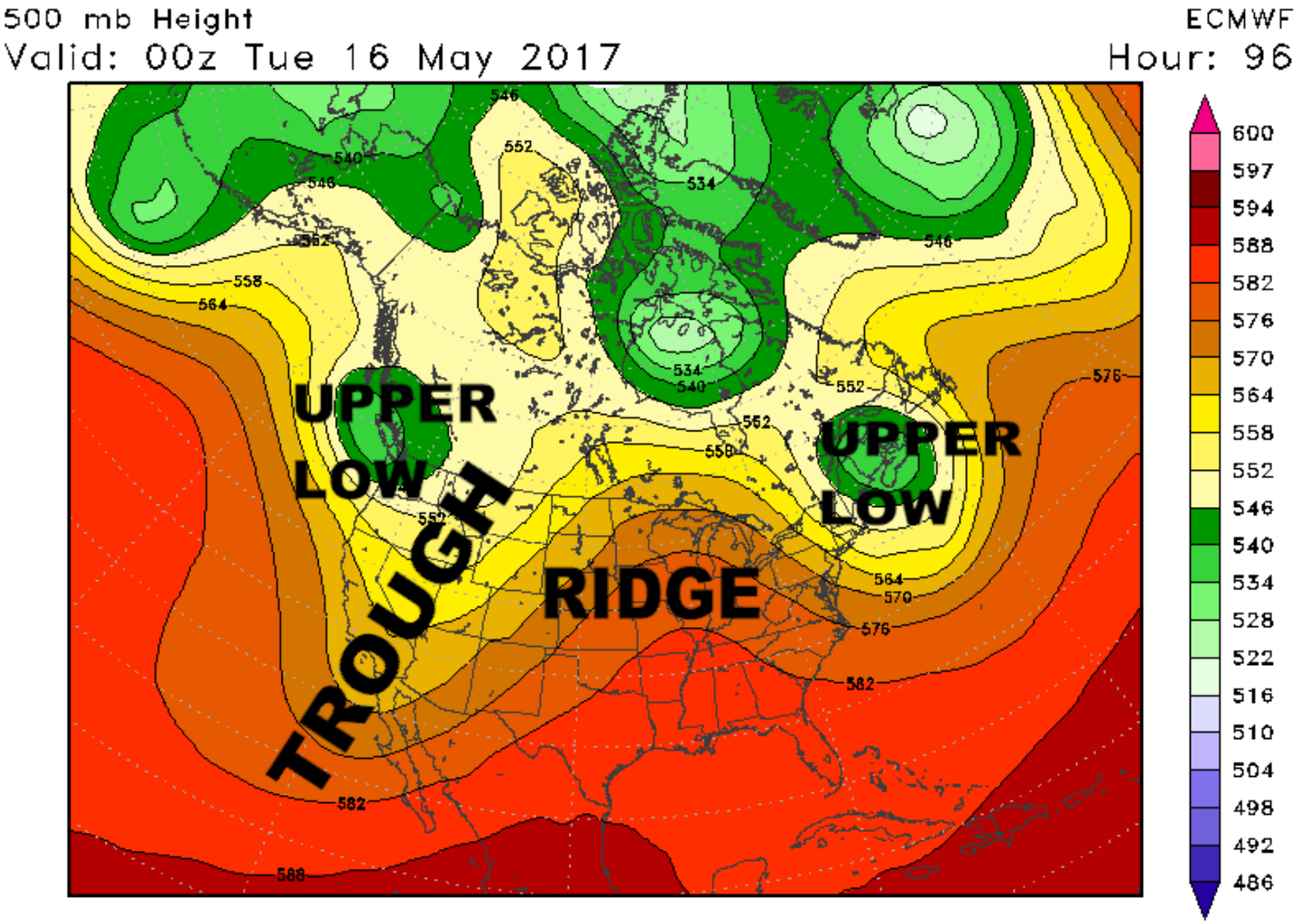
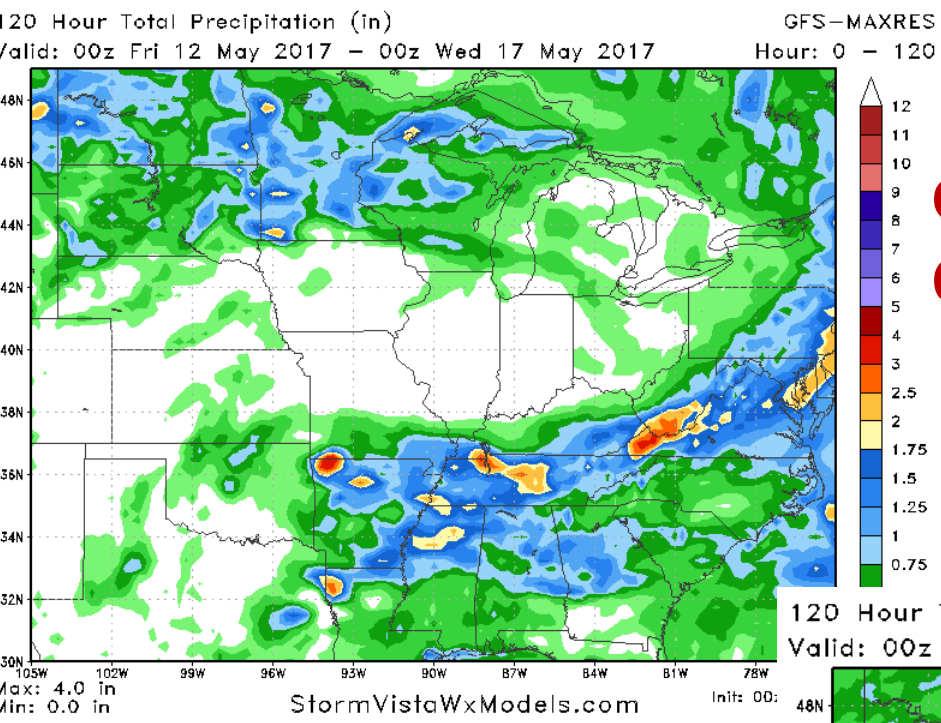
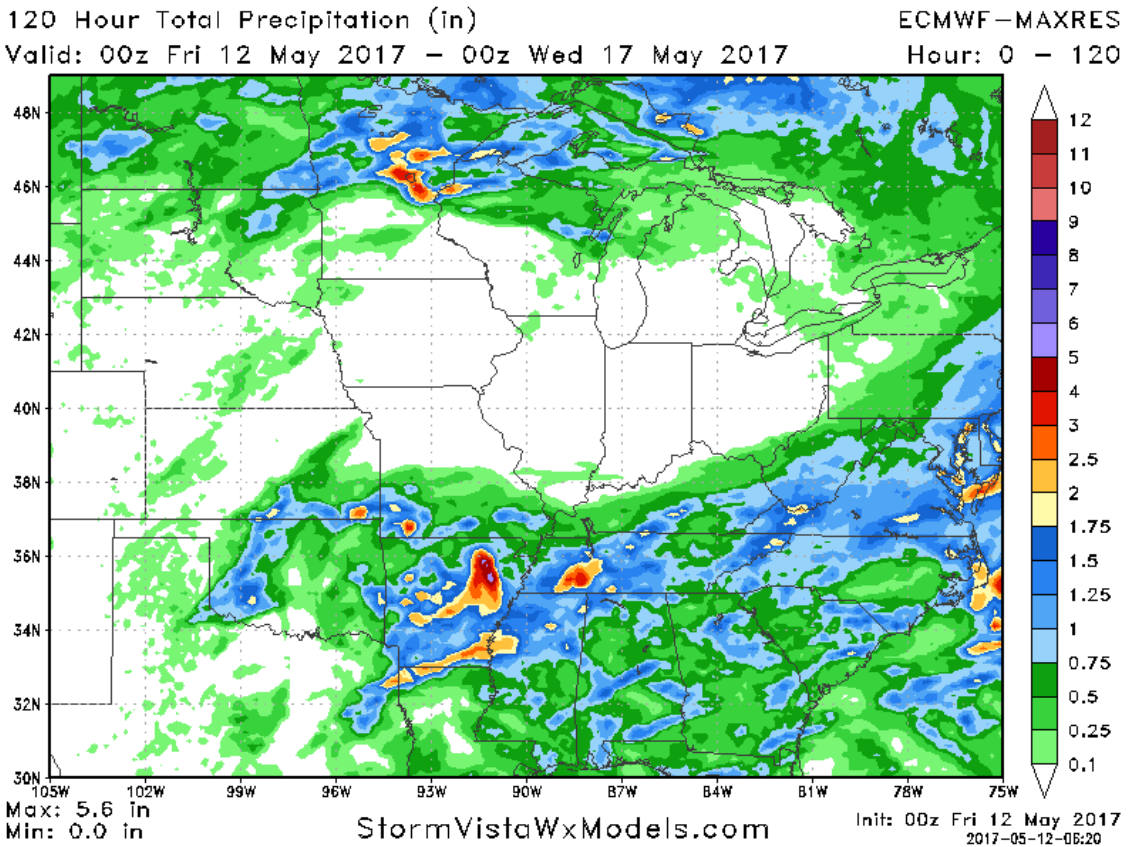
ECMWF HRES MODEL RUN 00Z 05/12 132hr FORECAST
This service is based on data and products of th
MSLP, 12hr Precip, Wind, Thickness, 32f
Valid Friday 00Z 05/19
EuroWX.com
In
THURS PM
ECMWF HRES MODEL RUN 00Z 05/12 168hr FORECAST
C 2017 ECMWF
This service is based on data and products of the European Center for Medium-range Weather Forecasts.

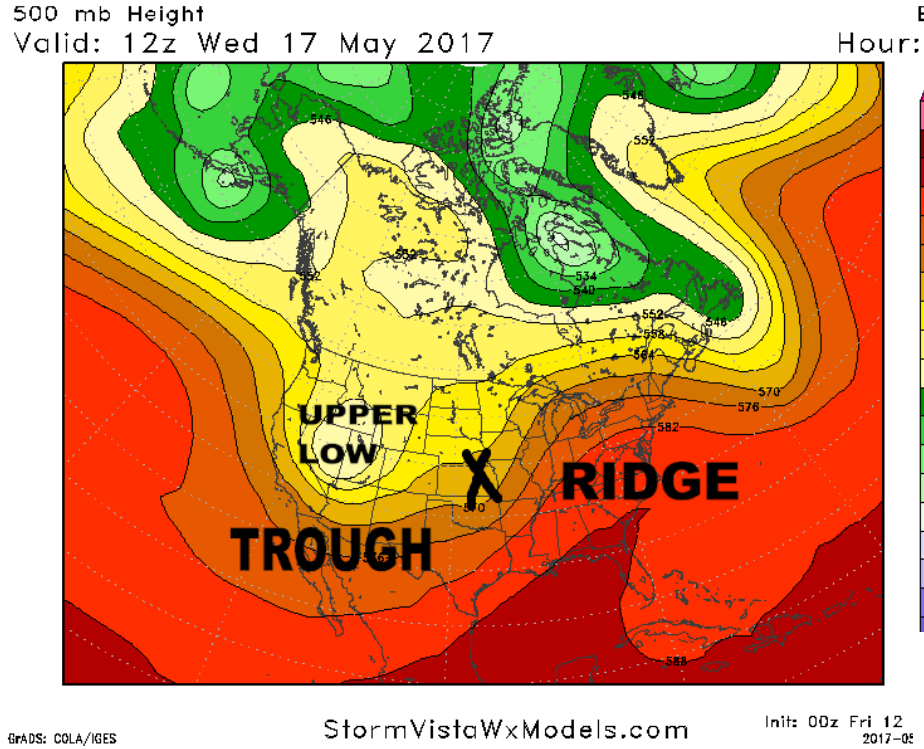
Deep troughs over West Coast * New England while large Ridge forms over Plains and Midwest = DRY 1-5 day



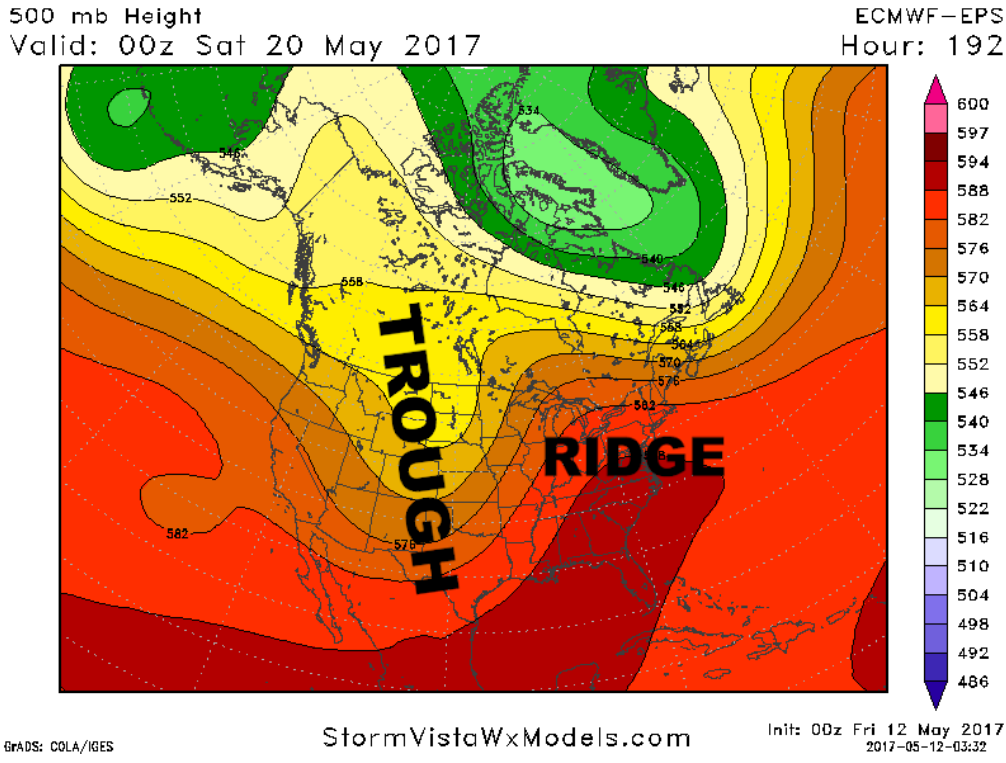


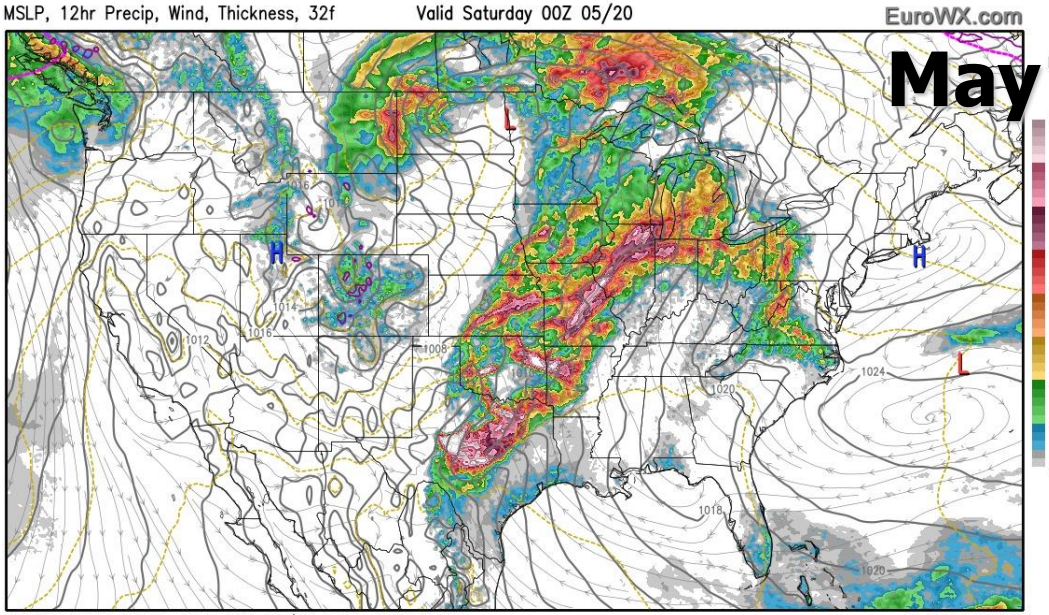
KEY POINT most of the Midwest dry next 5 days



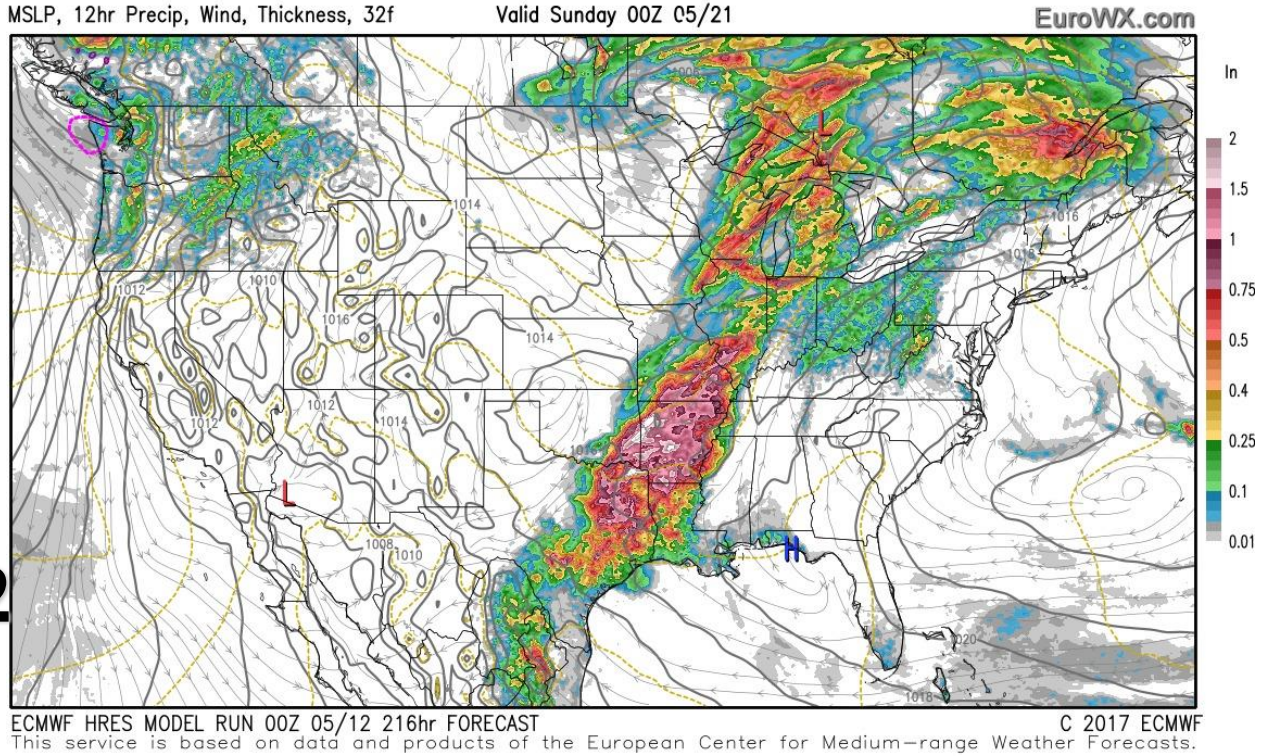


western US trough comes east sending out smaller " disturbances " into Plains & WCB while ECB SE states dry warm

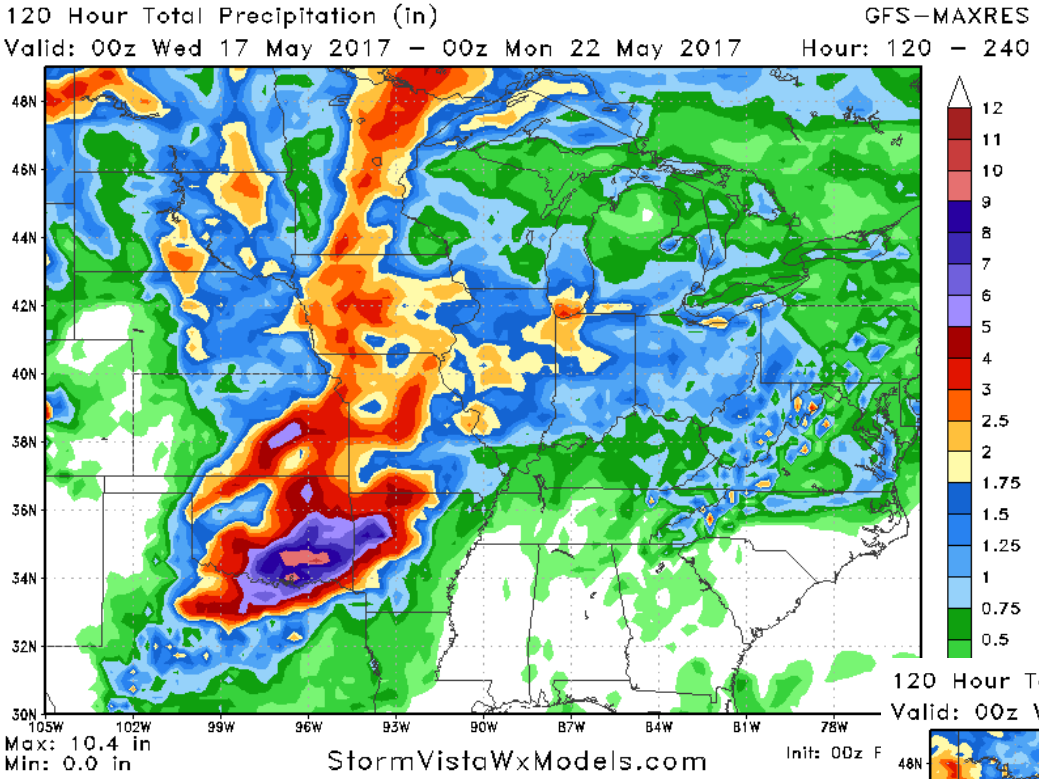




May 19-20

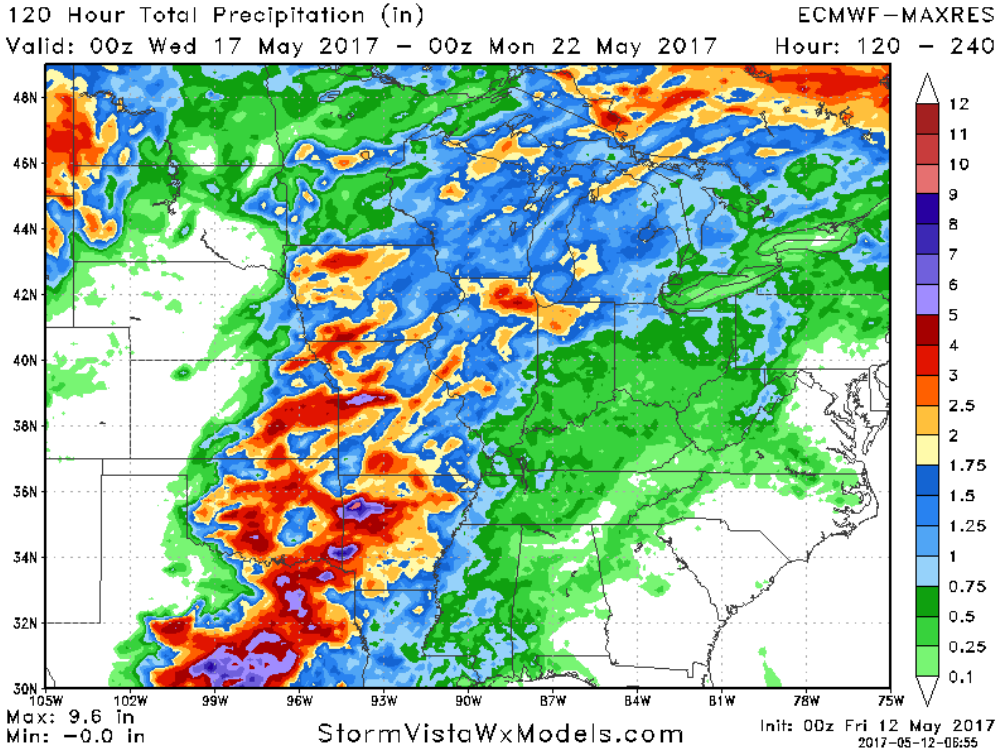


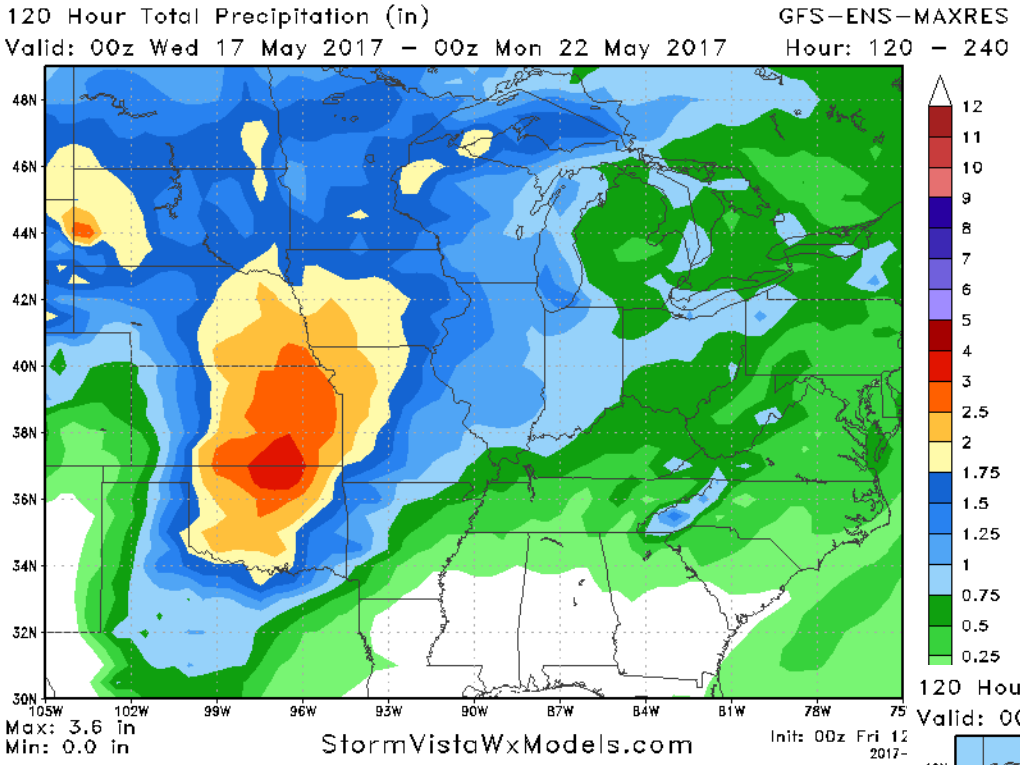
May 21-22



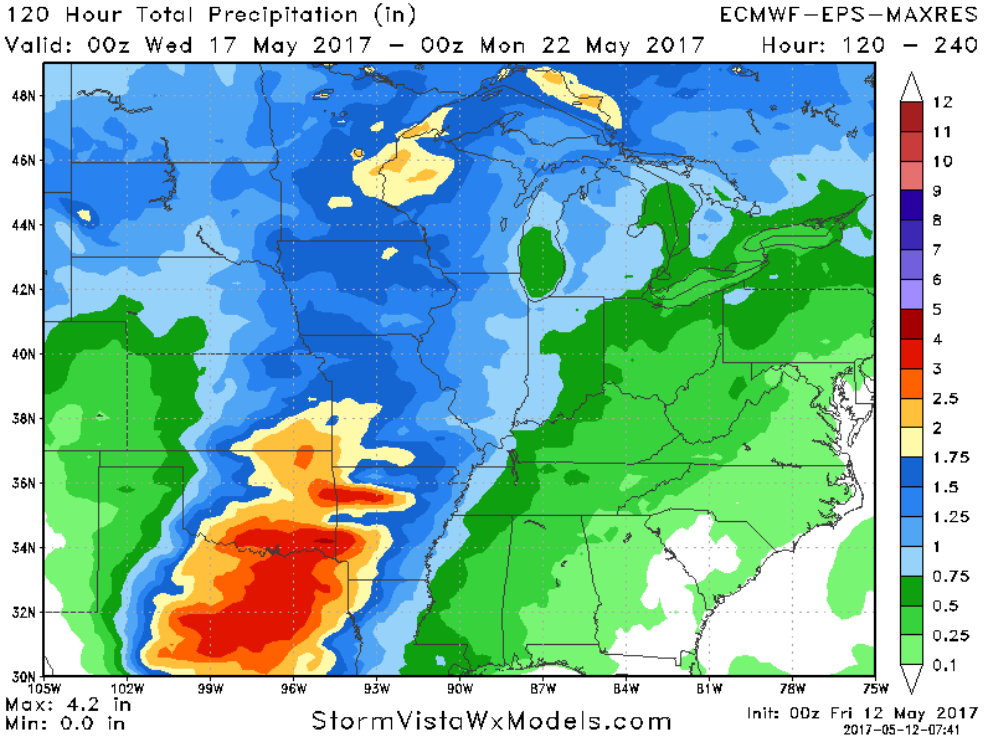
KEY POINT most of the Midwest dry next 5 days

GFS has blobs up to 10”/300mm in eastern OK

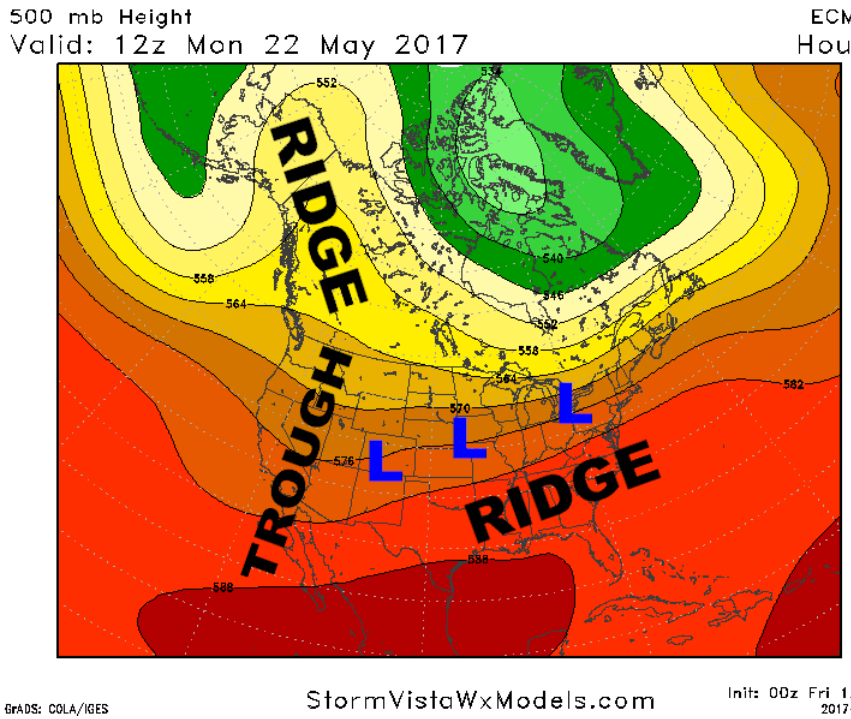




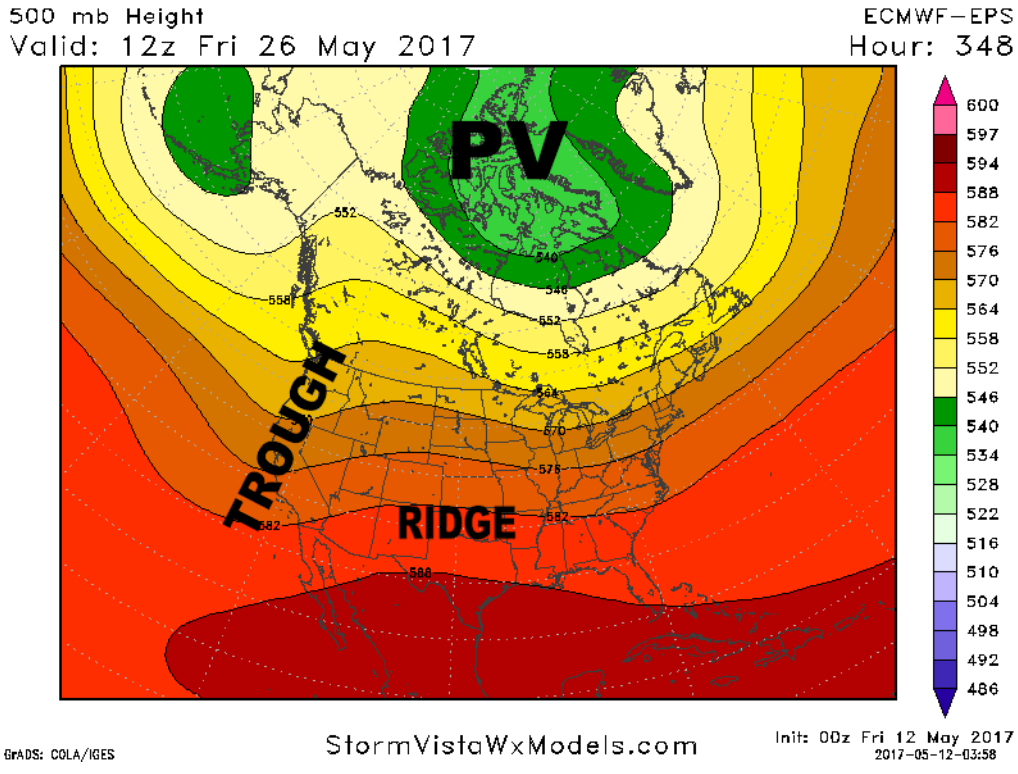
EXECELLENT MODEL AGREEMENT for 6-10DAY

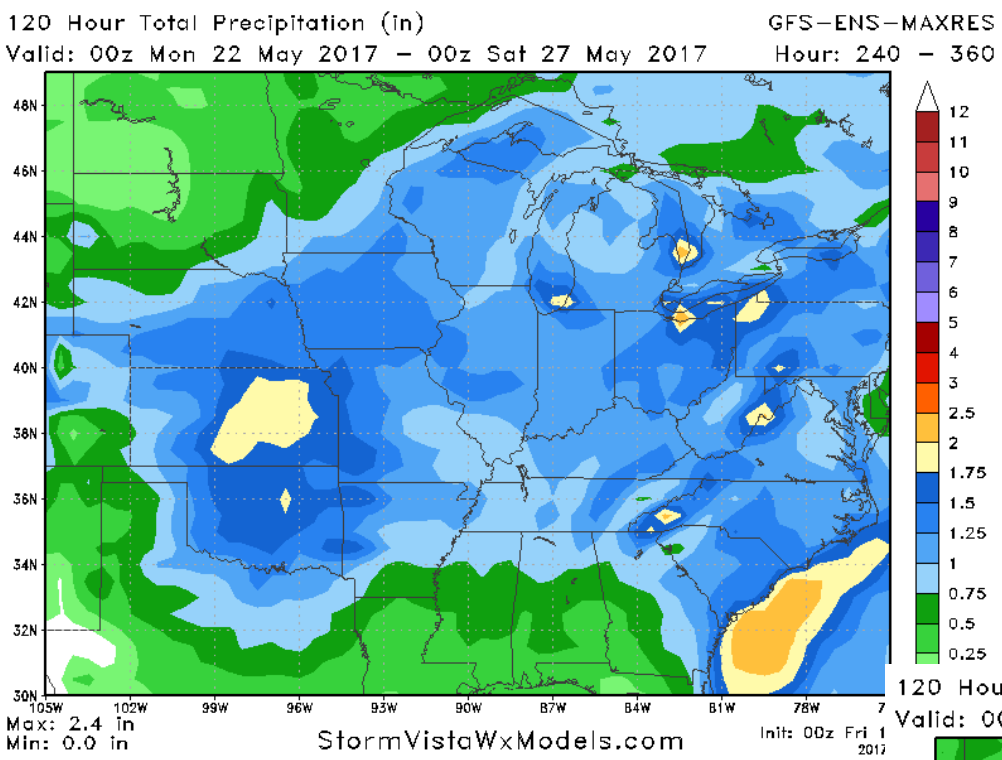


Models keep increasing rain amounts over Lowrer Plains into ARK sw MO

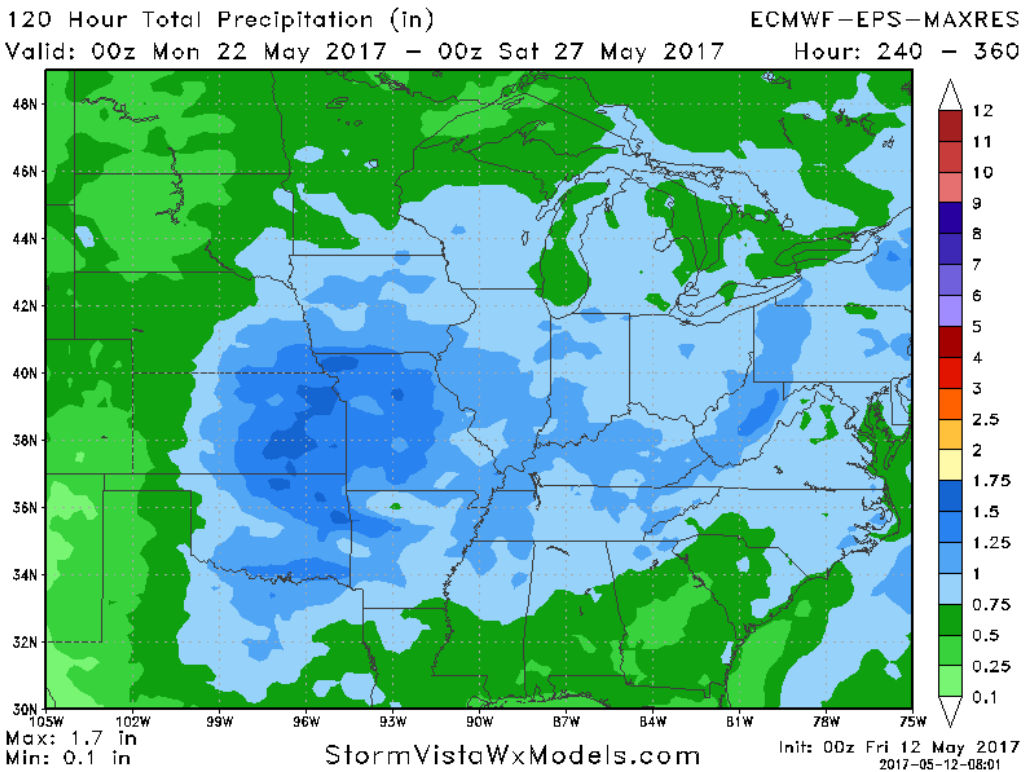


C 11-15DAY features persistent West coast trough & flat ridge over Deep South == wet pattern for Plains Midwest



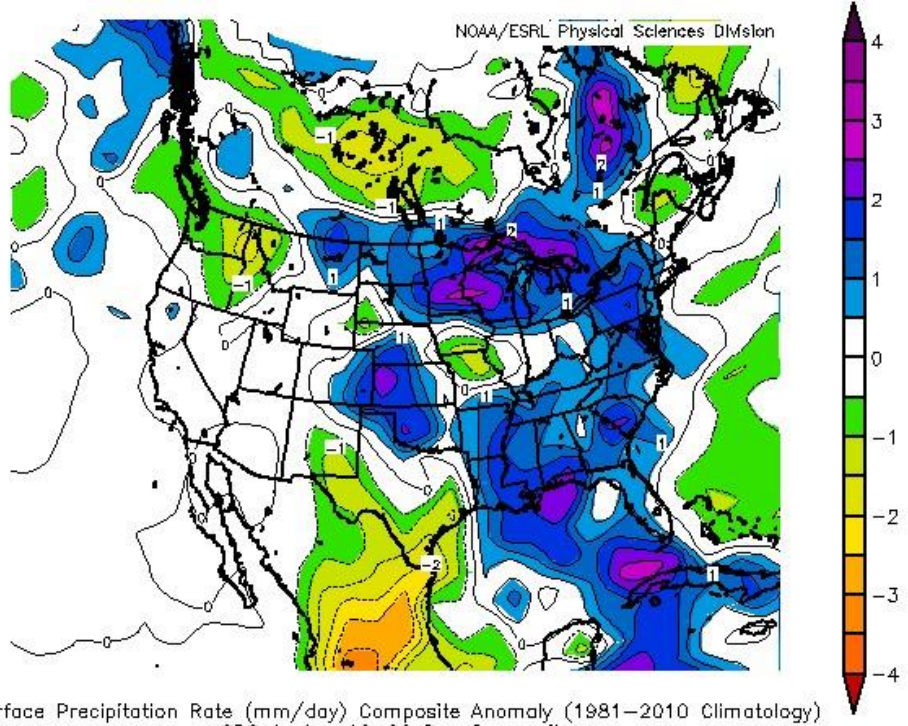


EXECELLENT MODEL AGREEMENT got 11-15D



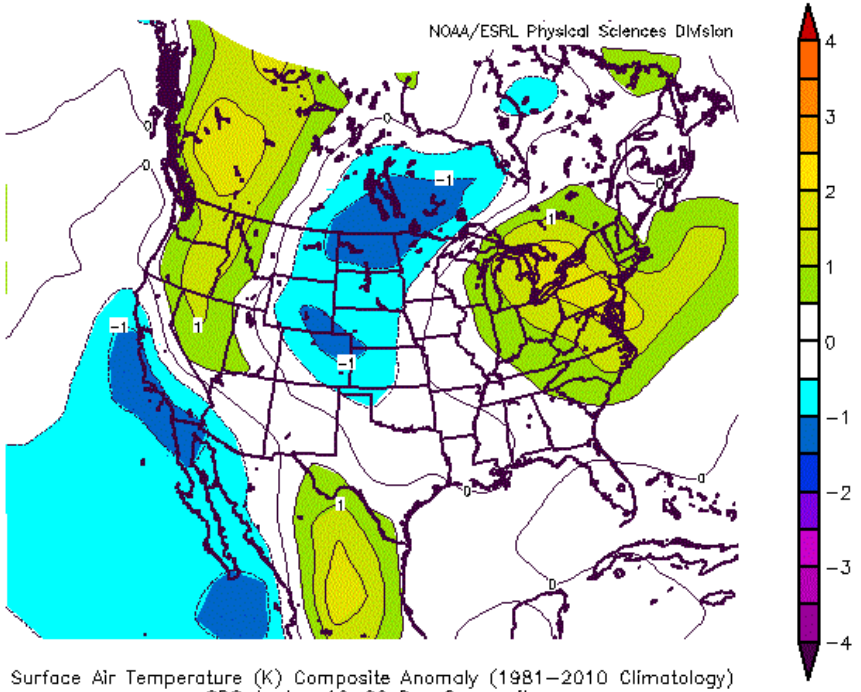
ANALOG METHOD

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



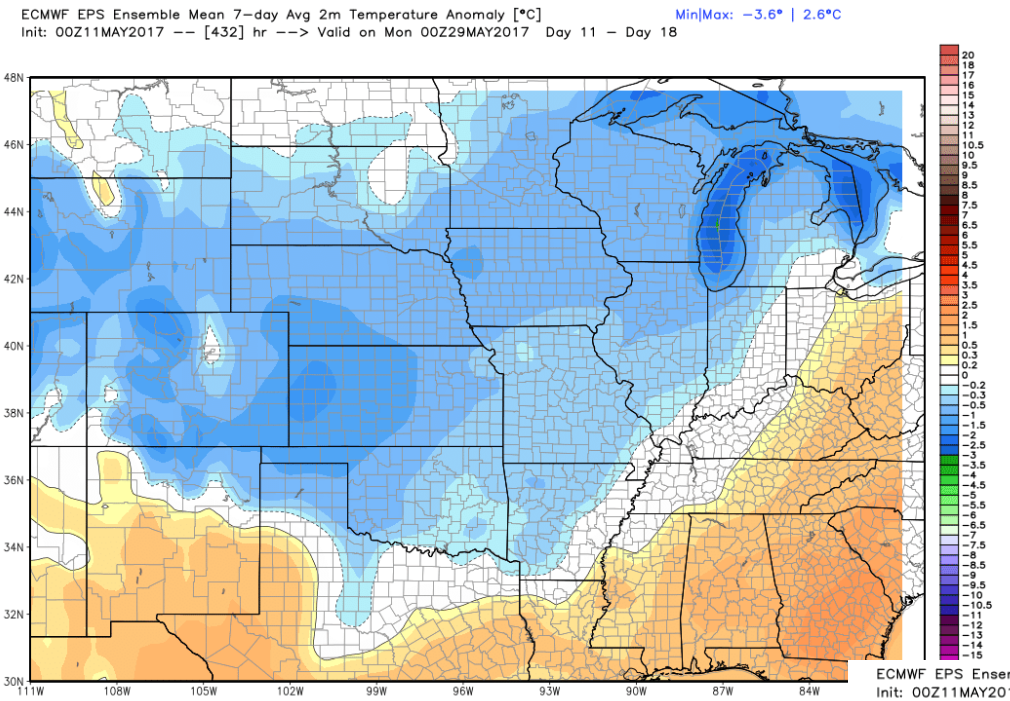
Surface Precipitation Rate (mm/day) Composite Anomaly (1981–2010 Climatology)
CPC Analog 16–20 Day Composite
NCEP/NCAR Reanalysis

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

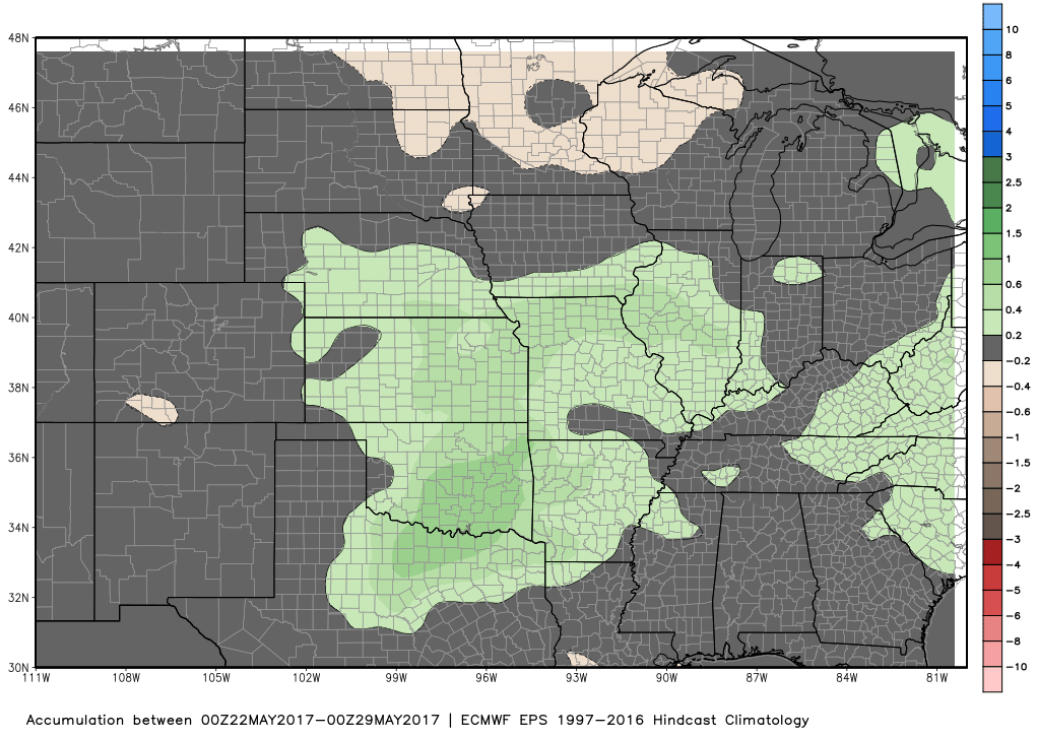


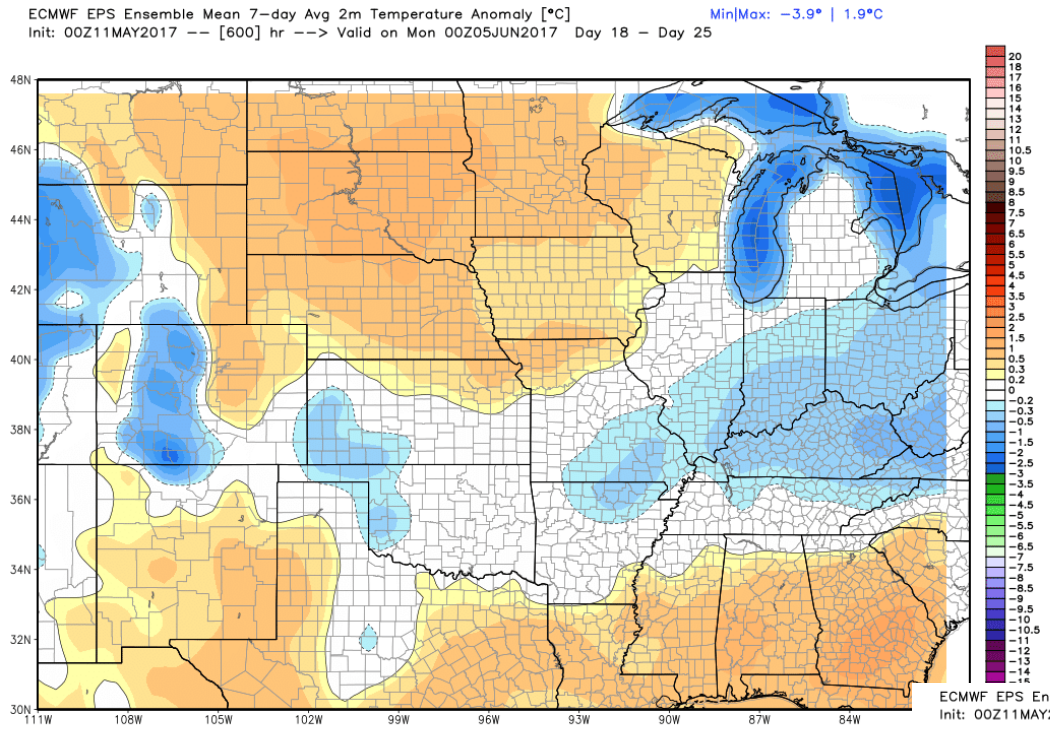
Surface Air Temperature (K) Composite Anomaly (1981–2010 Climatology)
CPC Analog 16–20 Day Composite
NCEP/NCAR Reanalysis

EUROPEAN WEEKLY MODELS OVER USA MEMORIAL DAY WEEKEND

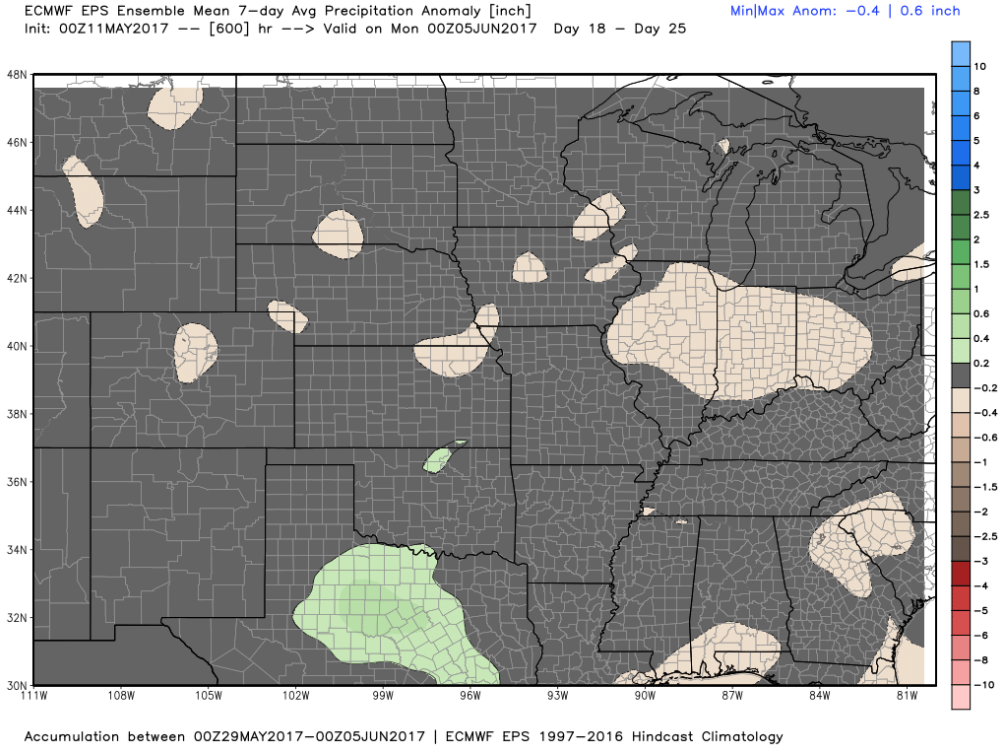


COOL & WET

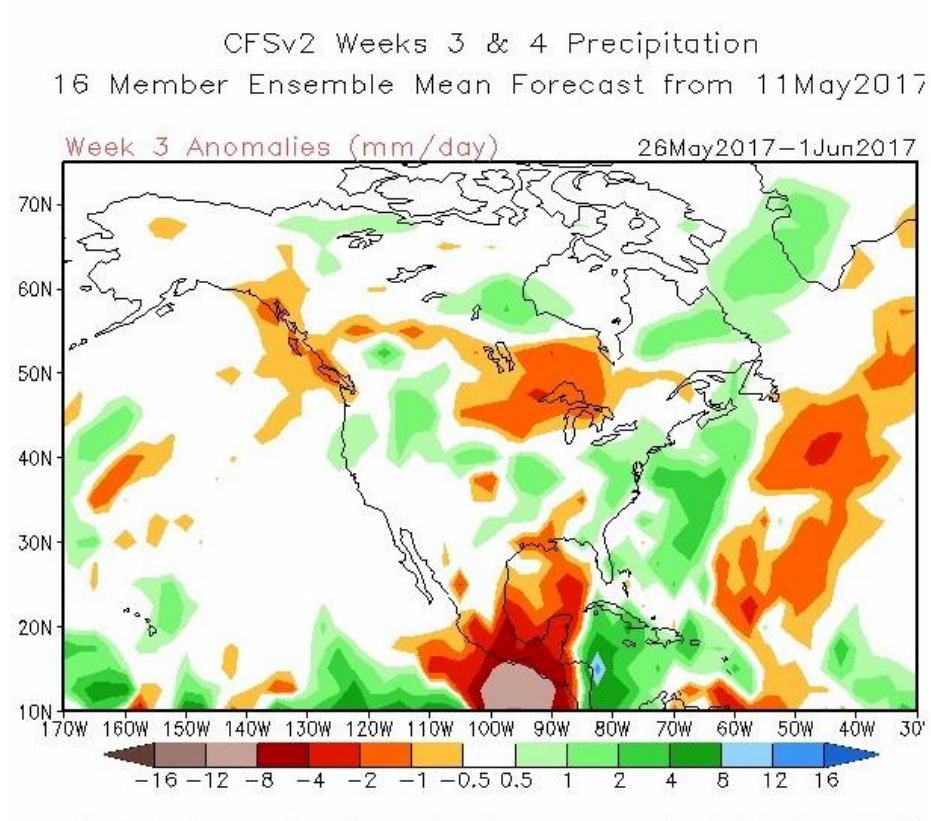


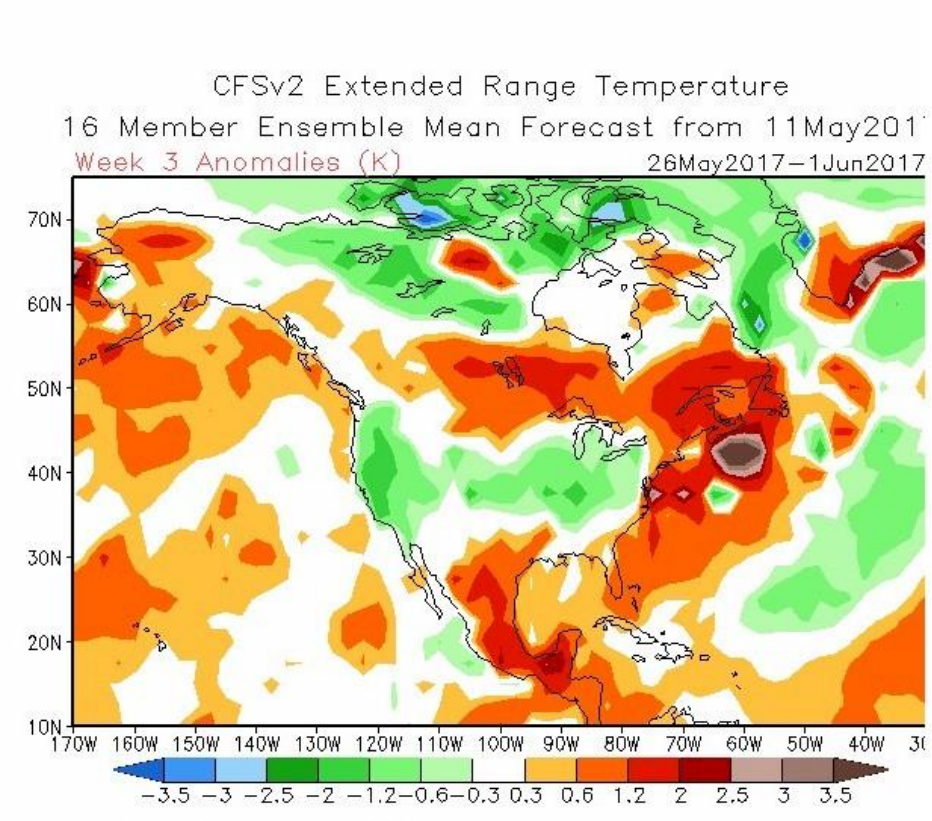


1ST WEEK OF JUNE … WARMER DRIER ???



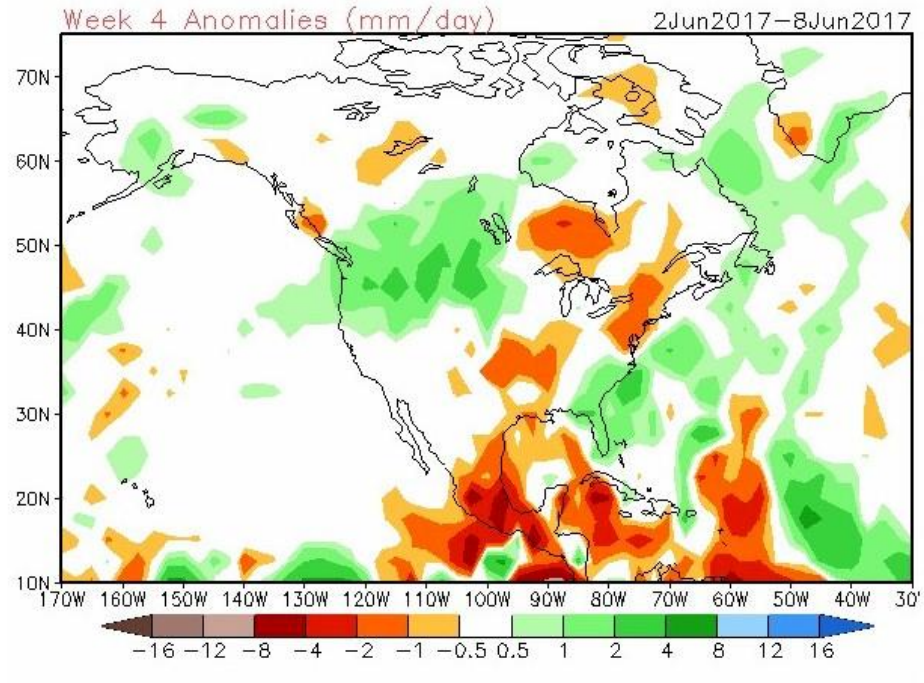
CFS FROM MAY 11 valid 5/26- 6/1

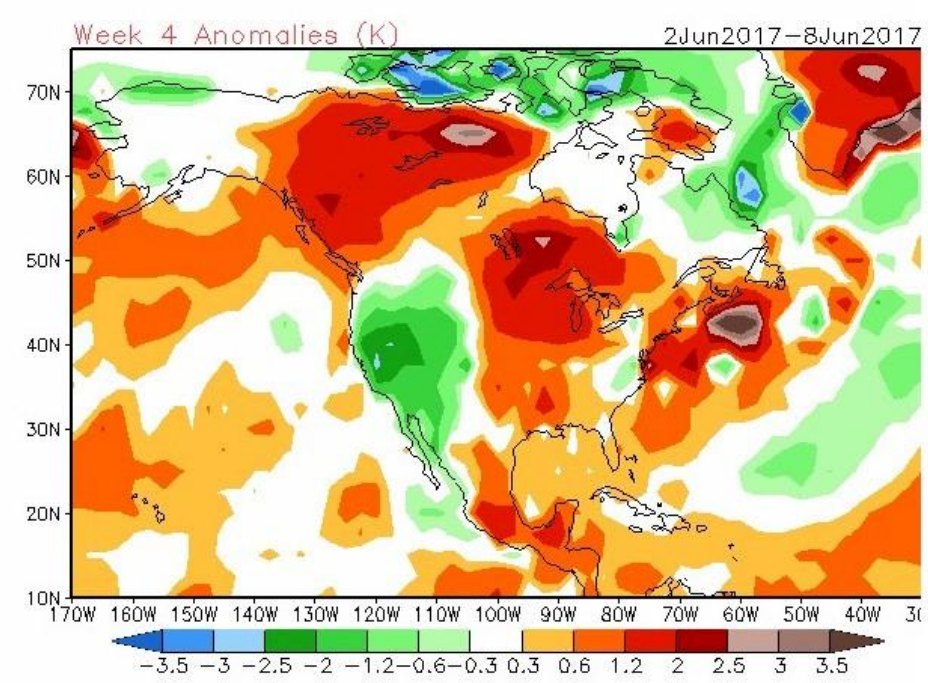




looks fairly wet central Plains & Midwest & cool

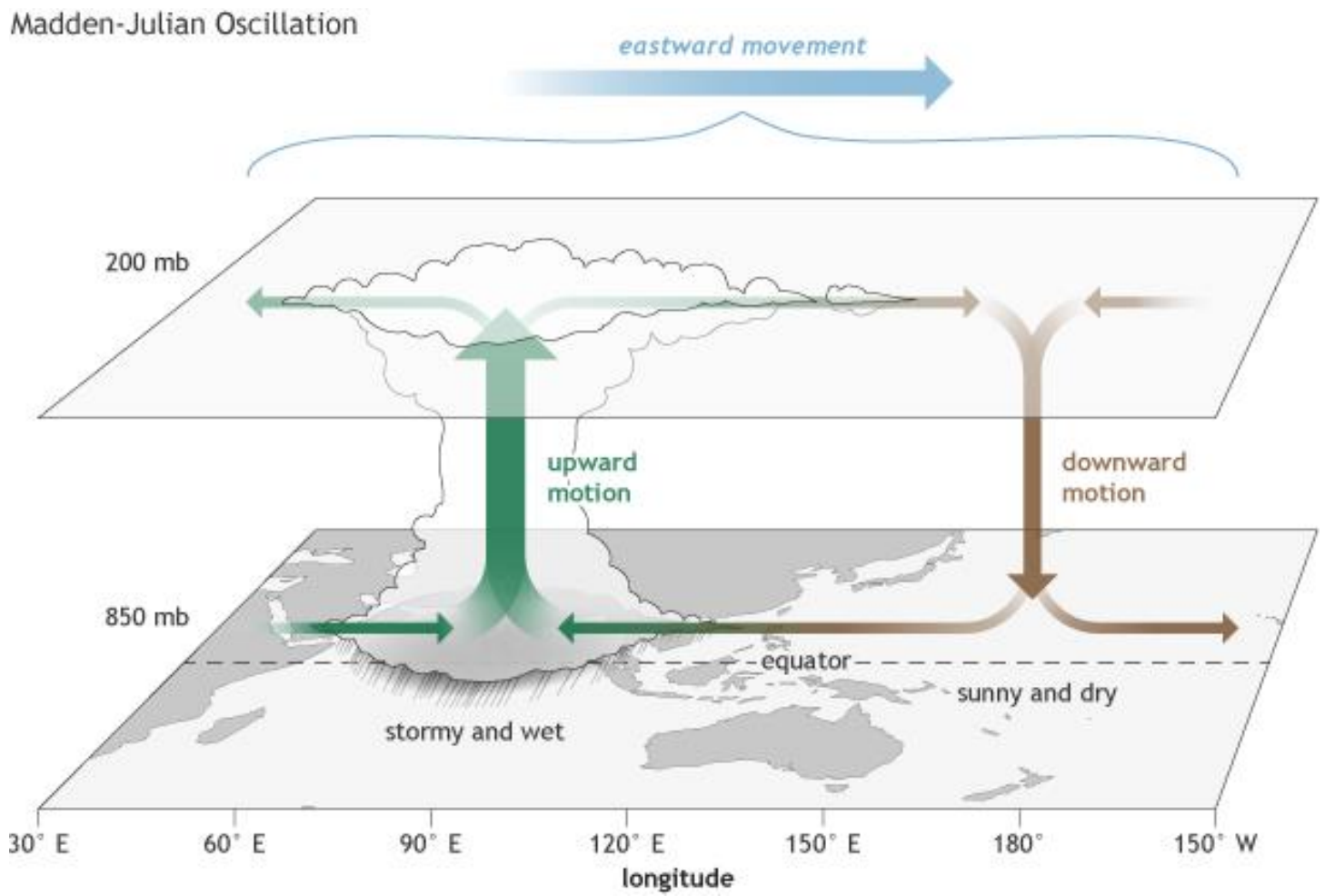
CFS FROM MAY 11 valid 6/2- 6/8



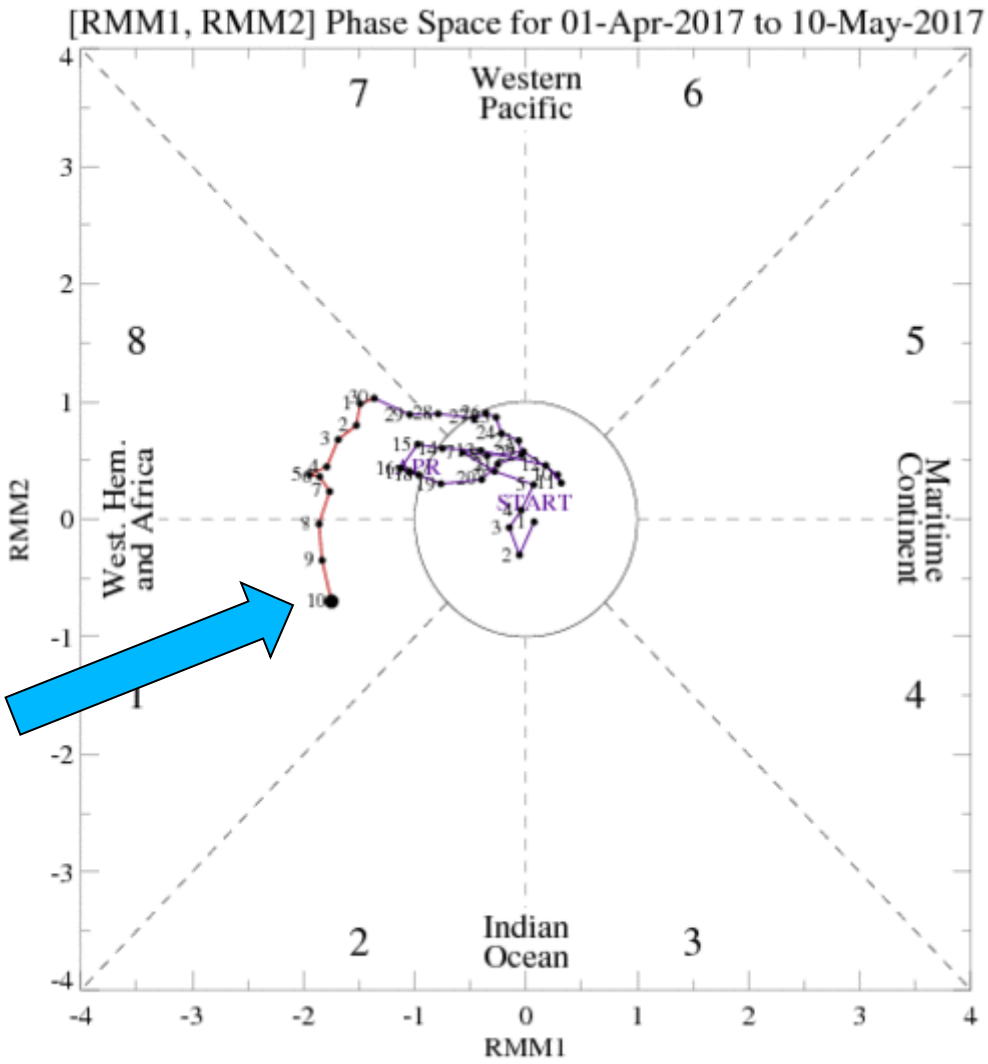


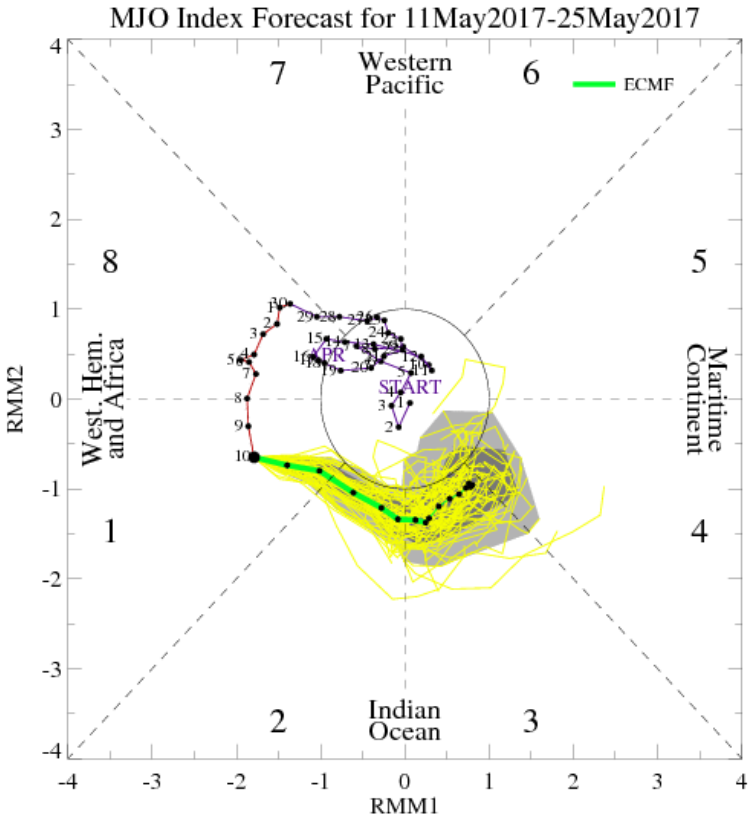
WET over Upper Plains into south Canada WARMER over all of Plains Midwest

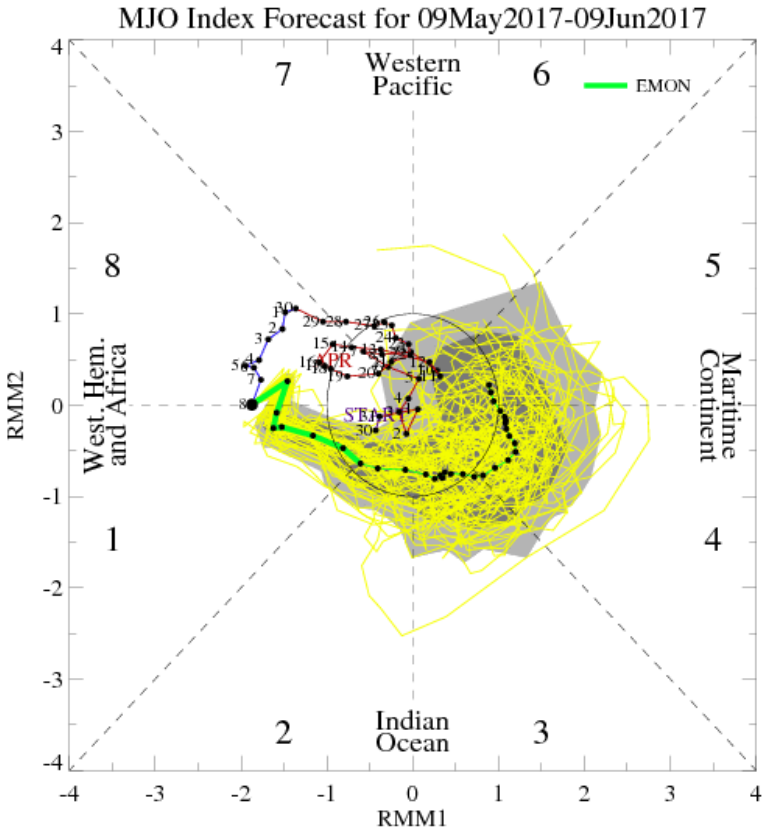
LETS TALK MJO/ENSO



MJO NOW IN NEUTRAL

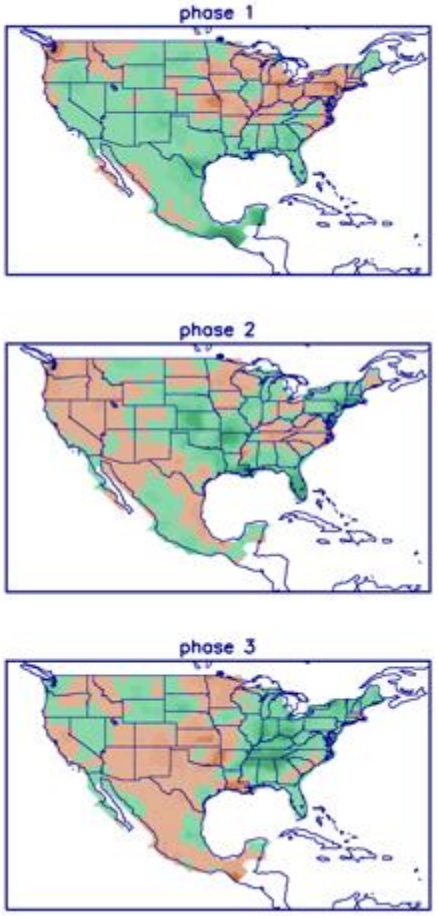



MJO Index Forecast for 11May2017-25May2017
Western Pacific
ECMF
West. Hem. and Africa
Maritime Continent
Indian Ocean
RMM1
RMM2
START

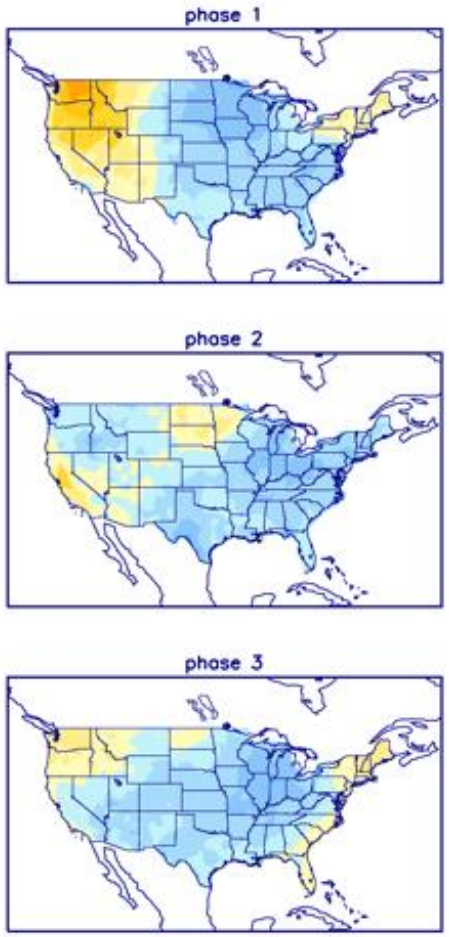

MJO Index Forecast for 09May2017-09Jun2017
Western Pacific
EMON
West. Hem. and Africa
Maritime Continent
Indian Ocean
RMM1
RMM2

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

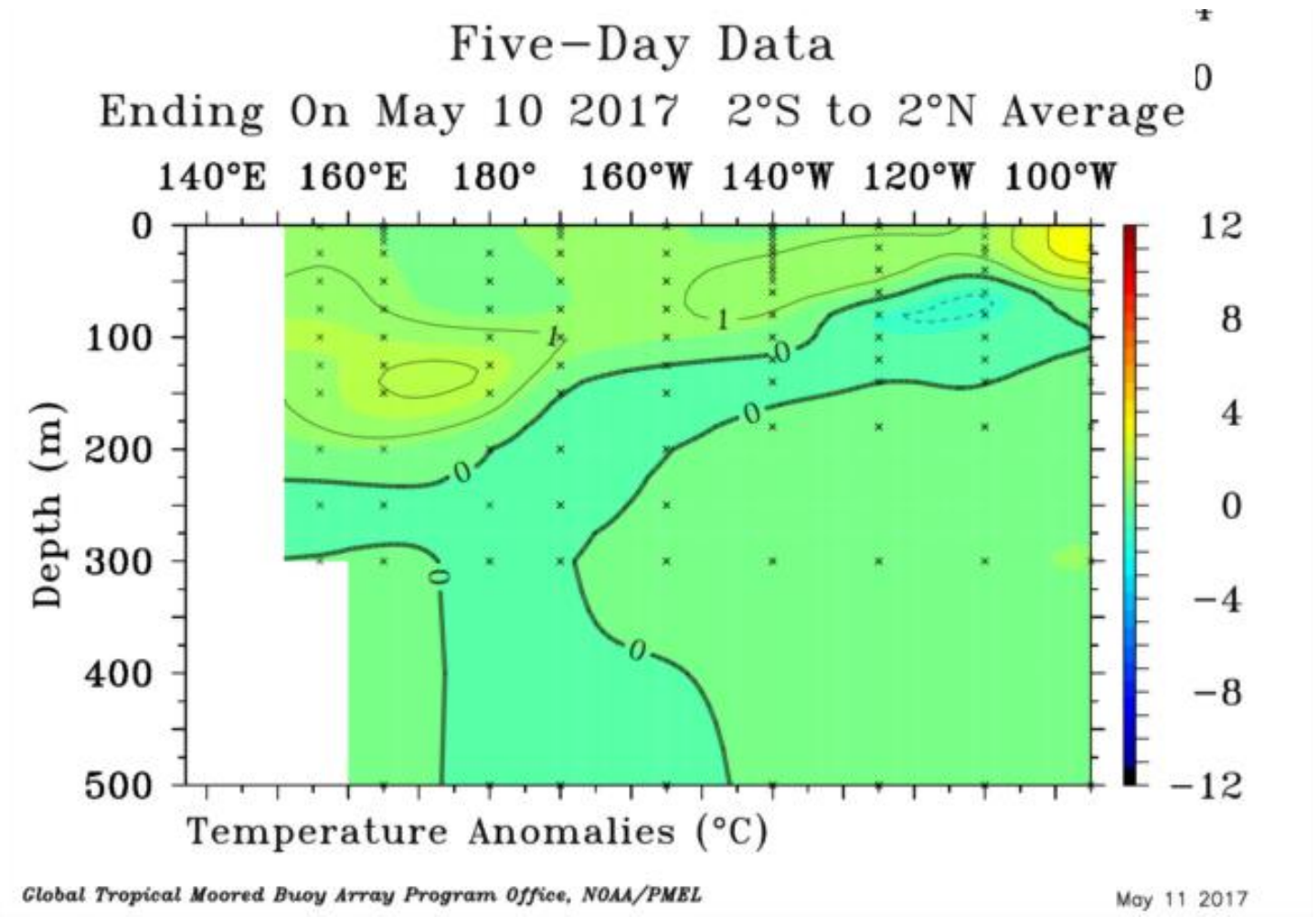
ENSO Alert System Status: Not Active

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

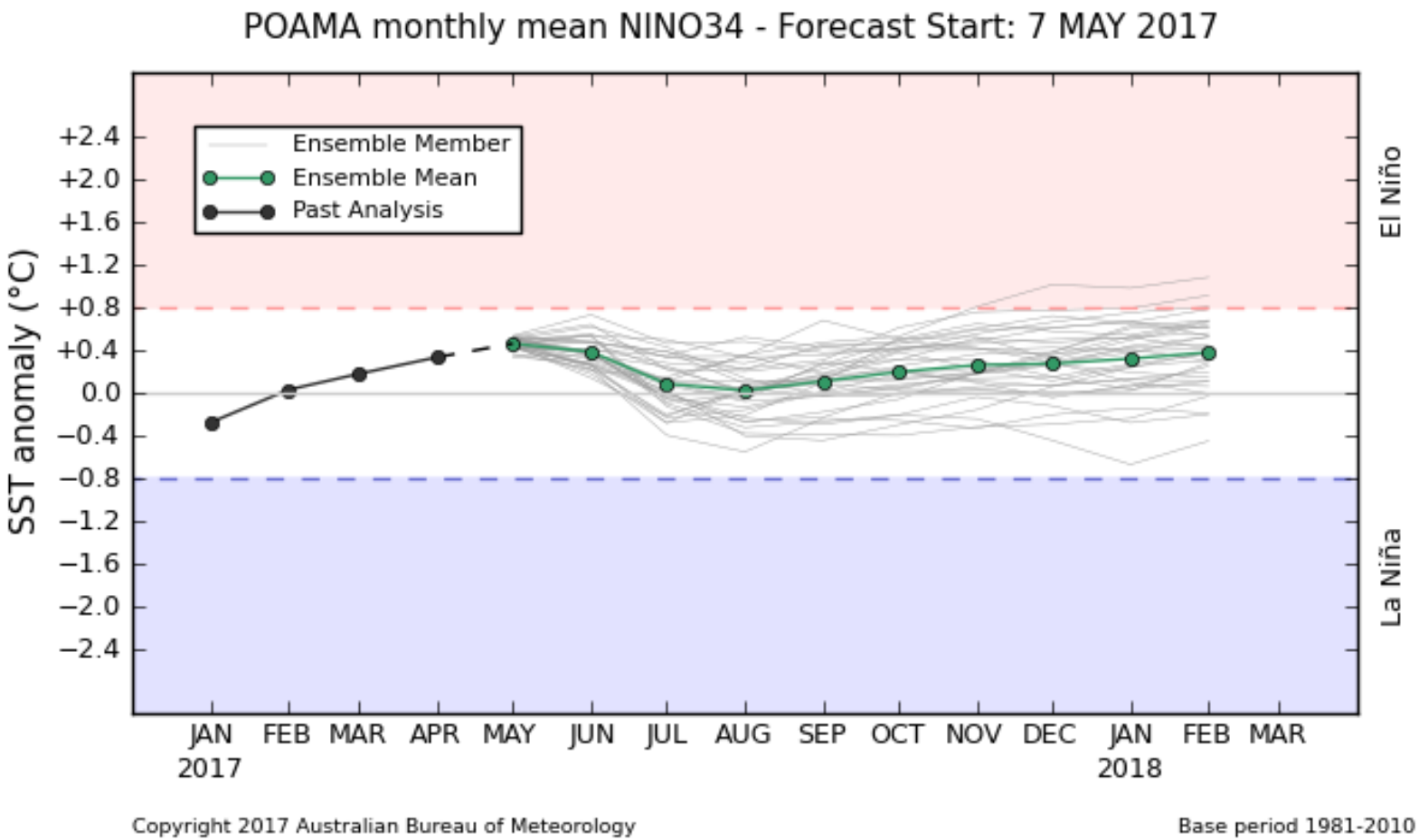
ENSO-neutral persisted during April, with near-average sea surface temperatures (SSTs) observed across the central equatorial Pacific and above-average SSTs in the eastern Pacific (Fig. 1). The latest weekly Niño index values were +0.5°C in the Niño-3 and Niño-3.4 regions, and +0.3 and +0.8°C in the 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).

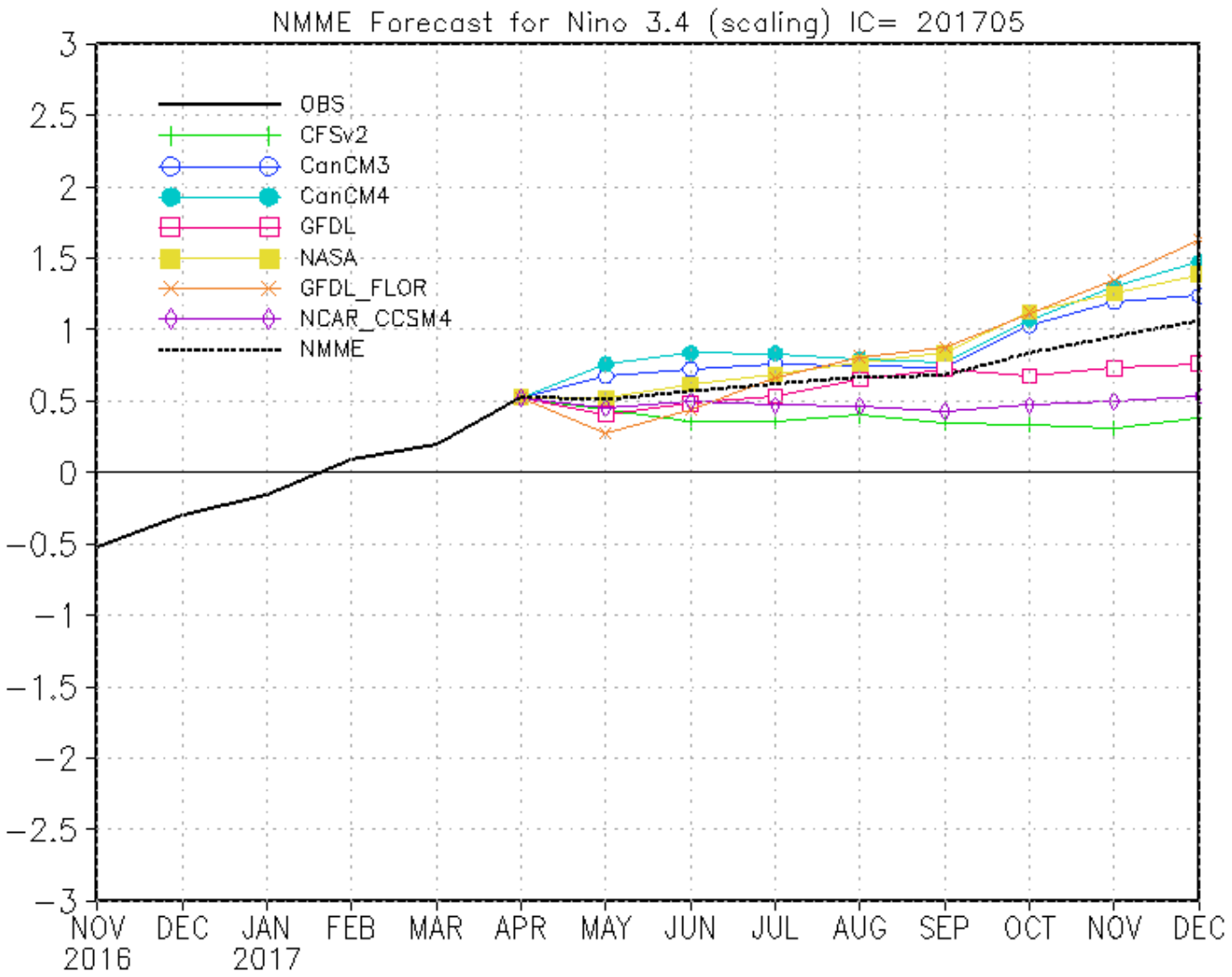
still a lot of cold SSTAs just under the surface as of MAY 10 = Restricting El Nino development

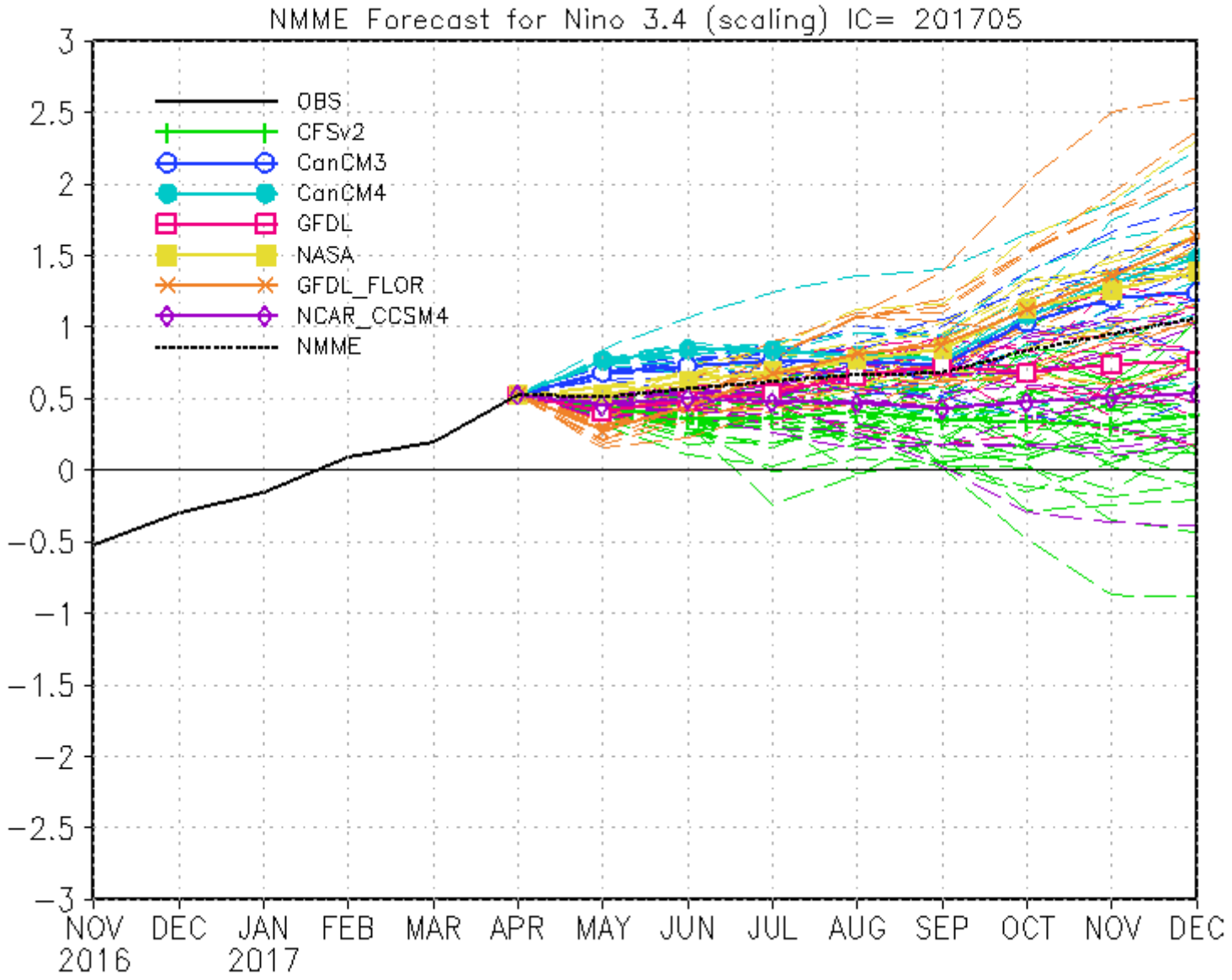


NEW AUSTRALIAN ENSO MODEL – again shows NO El Nino– actual COOLING in July August

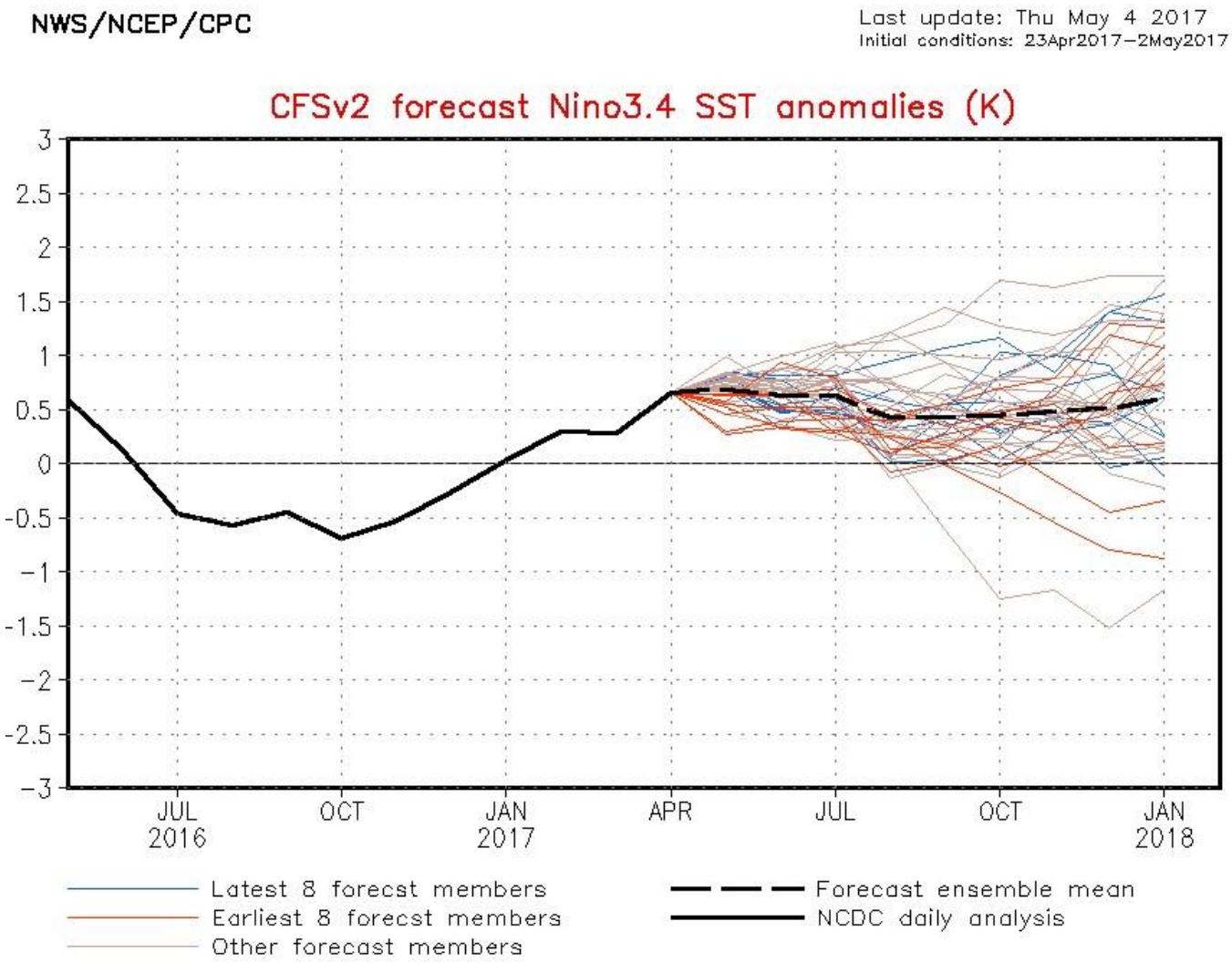


various forecast models used in the NMME - NATIONAL ENSEMBLE MEAN. At Best minimum EL Nino

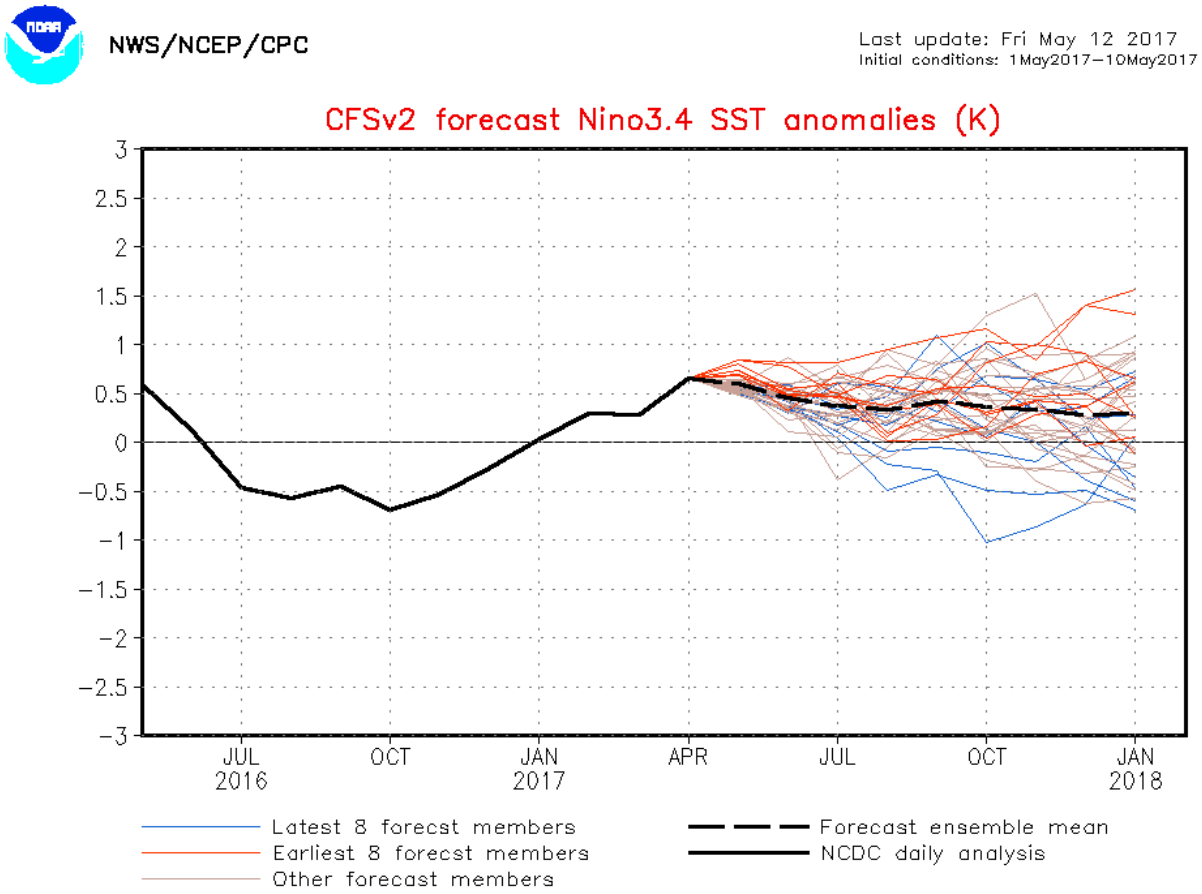



NMME Forecast for Nino 3.4 (scaling) IC= 201705
OBS
CFSv2
CanCM3
CanCM4
GFDL
NASA
GFDL_FLOR
NCAR_CCSM4
NMME
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
NOV
2016
DEC
JAN
2017
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC

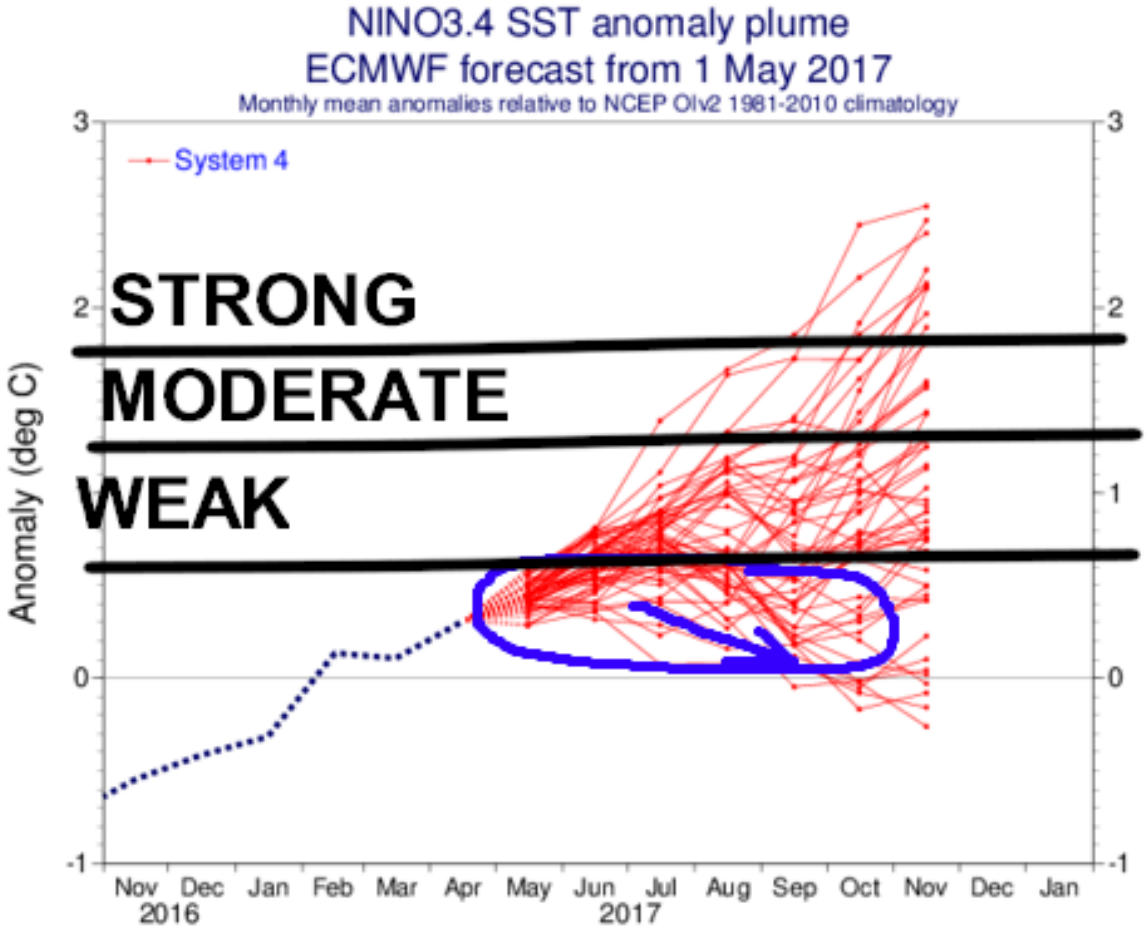
CFS FROM MAY 4 - based on data 4/23- 5/2



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



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



EUROPE

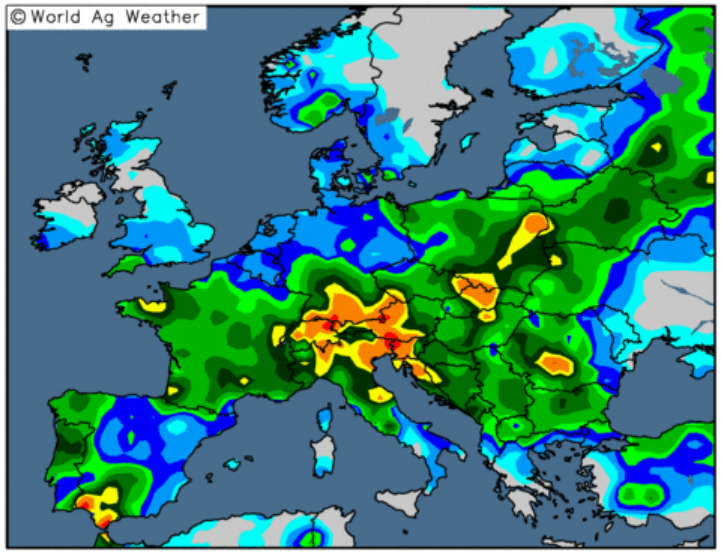
CHINA GRAIN

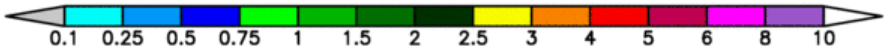
WEATHER

EUROPE IN GOOD SHAPE WITH RAINS LAST 2 WEEKS

14-day Precipitation Analysis

Observed precipitation (inches) through 12 UTC 10 May 2017

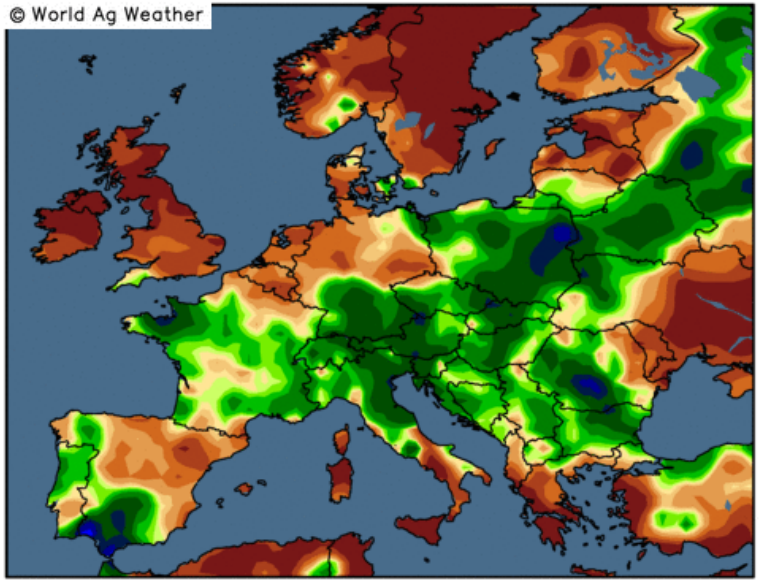




Map updates daily by approximately 20:30 UTC

14-day Precipitation Analysis

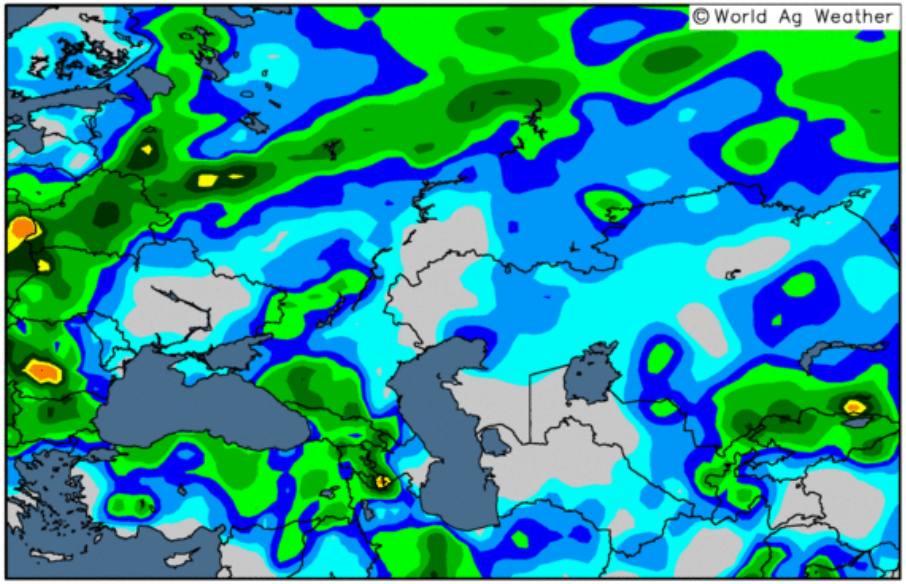
Percent of normal through 12 UTC 10 May 2017

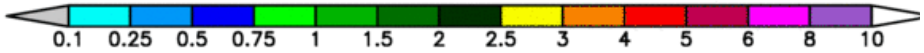


Map updates daily by approximately 20:30 UTC

14–day Precipitation Analysis

Observed precipitation (inches) through 12 UTC 10 May 2017



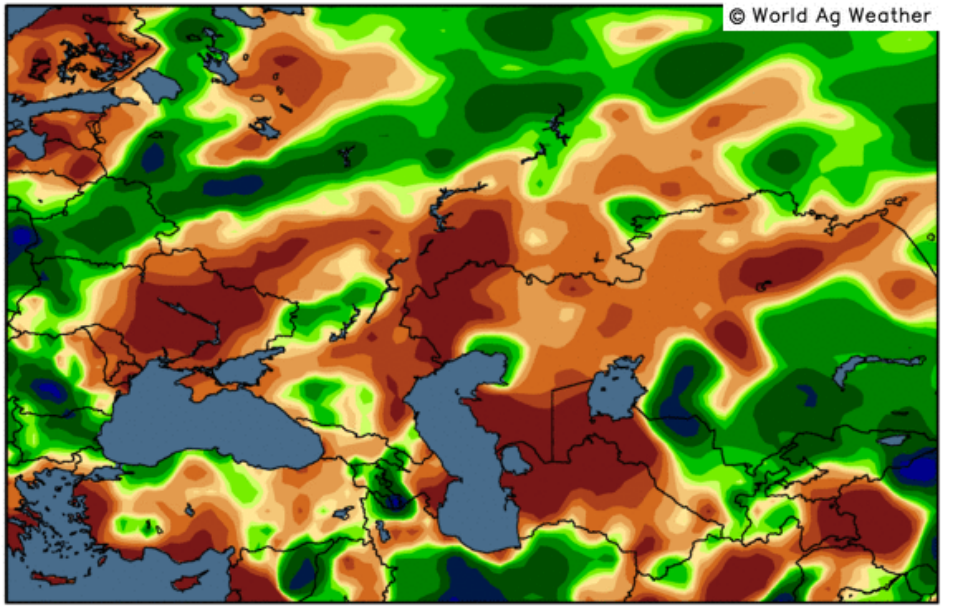


Map updates daily by approximately 20:30 UTC

UKRAINE & MUCH OF SW RUSSIA DRY LAST 2 WEEKS

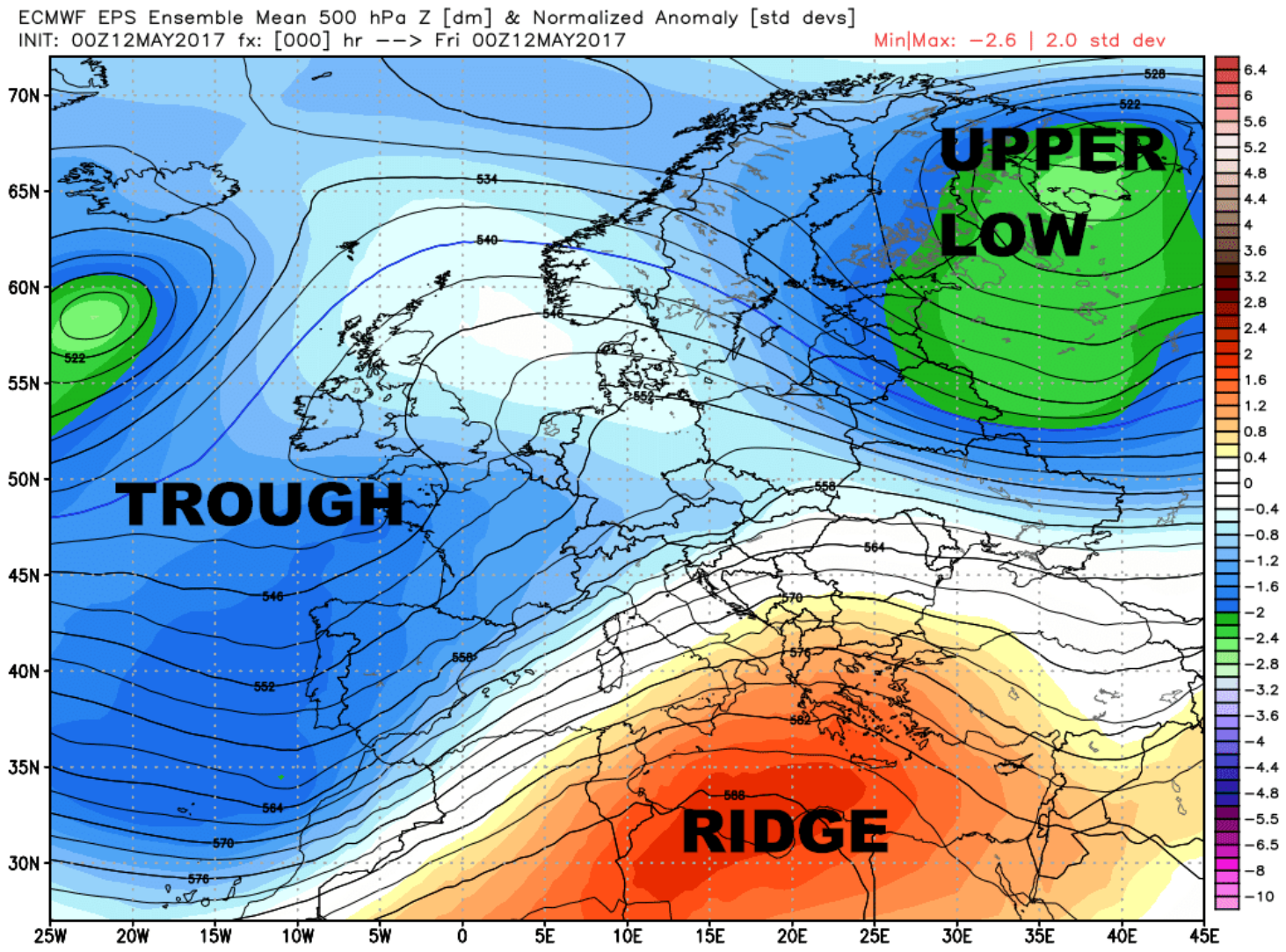
14–day Precipitation Analysis

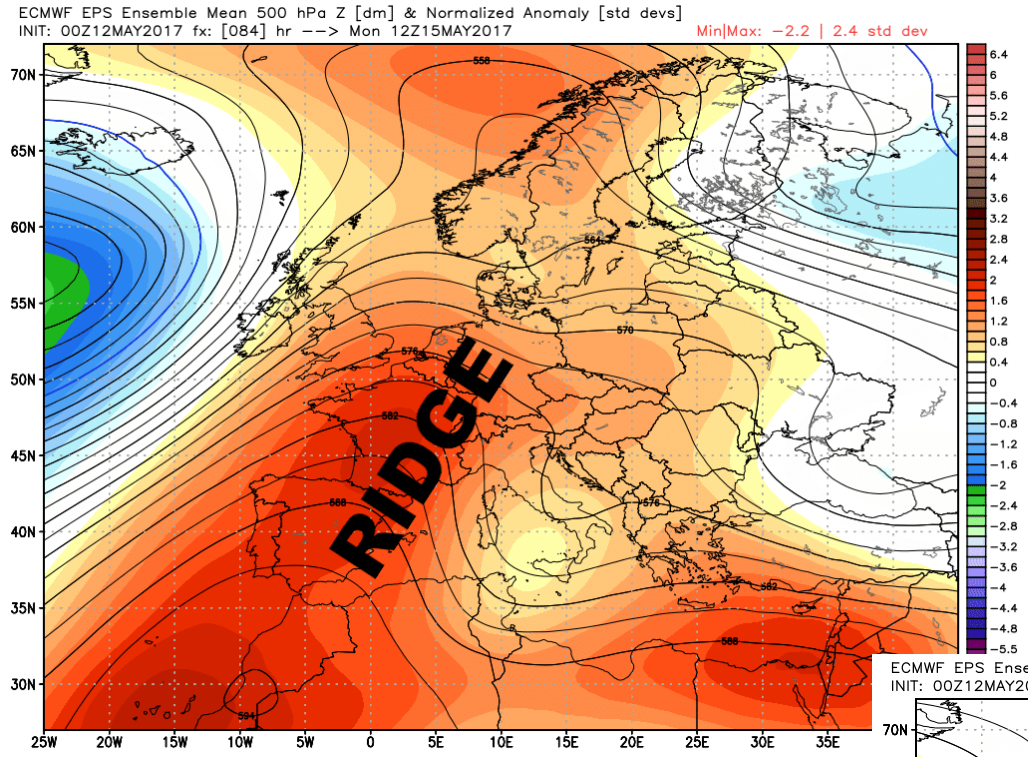
Percent of normal through 12 UTC 10 May 2017

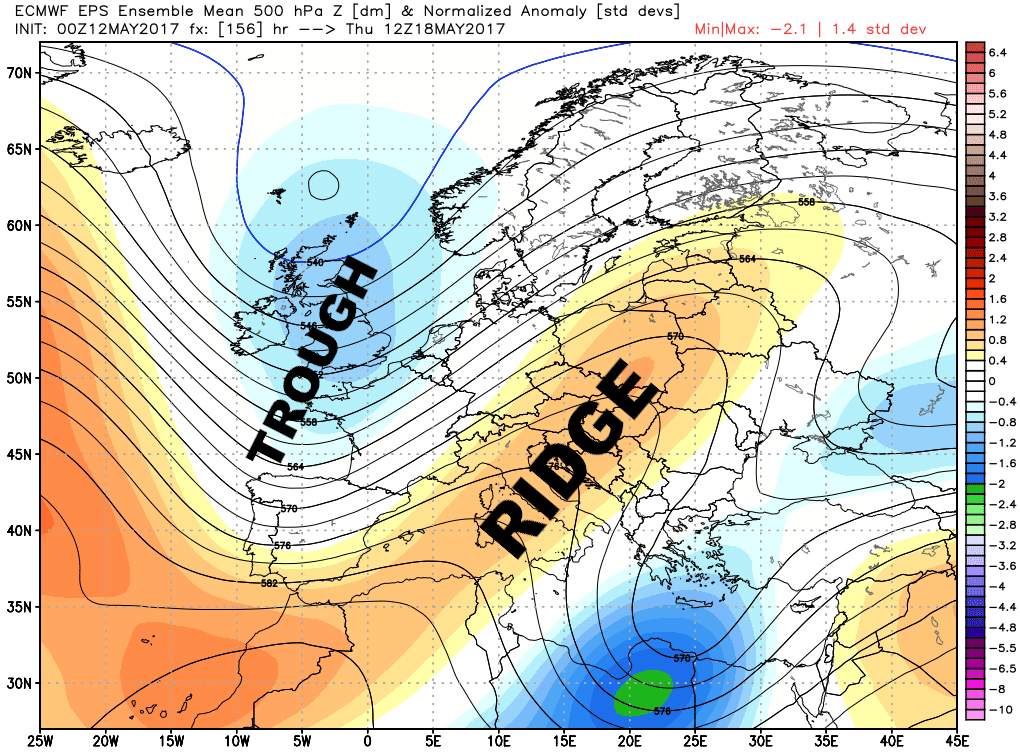


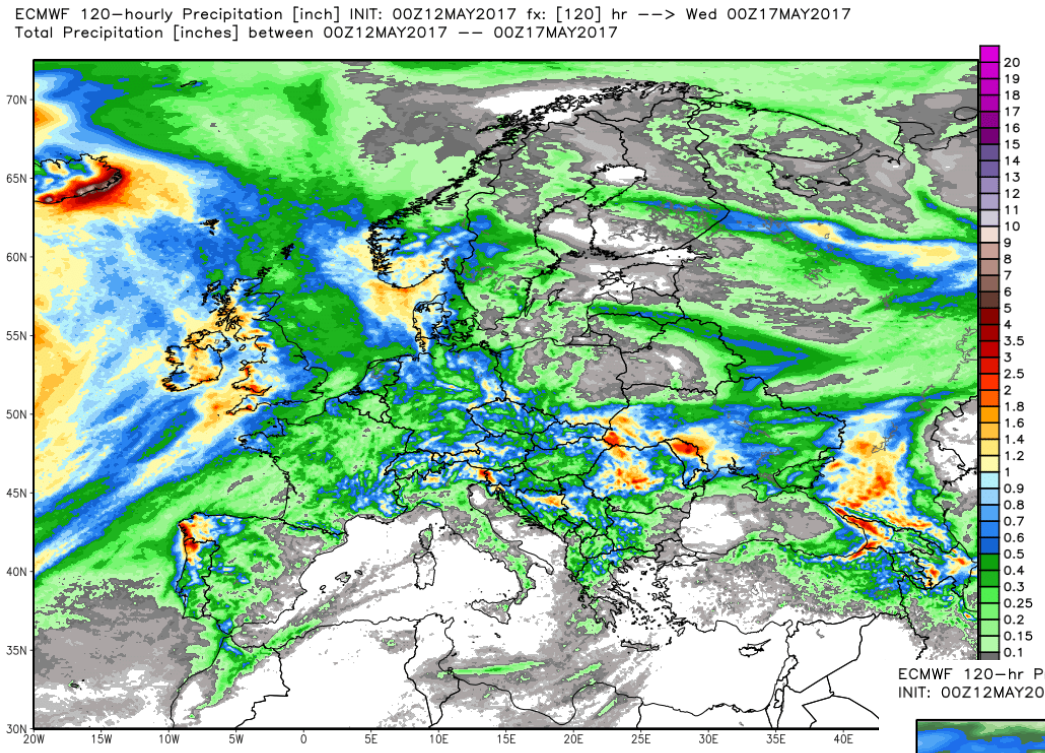
Map updates daily by approximately 20:30 UTC

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

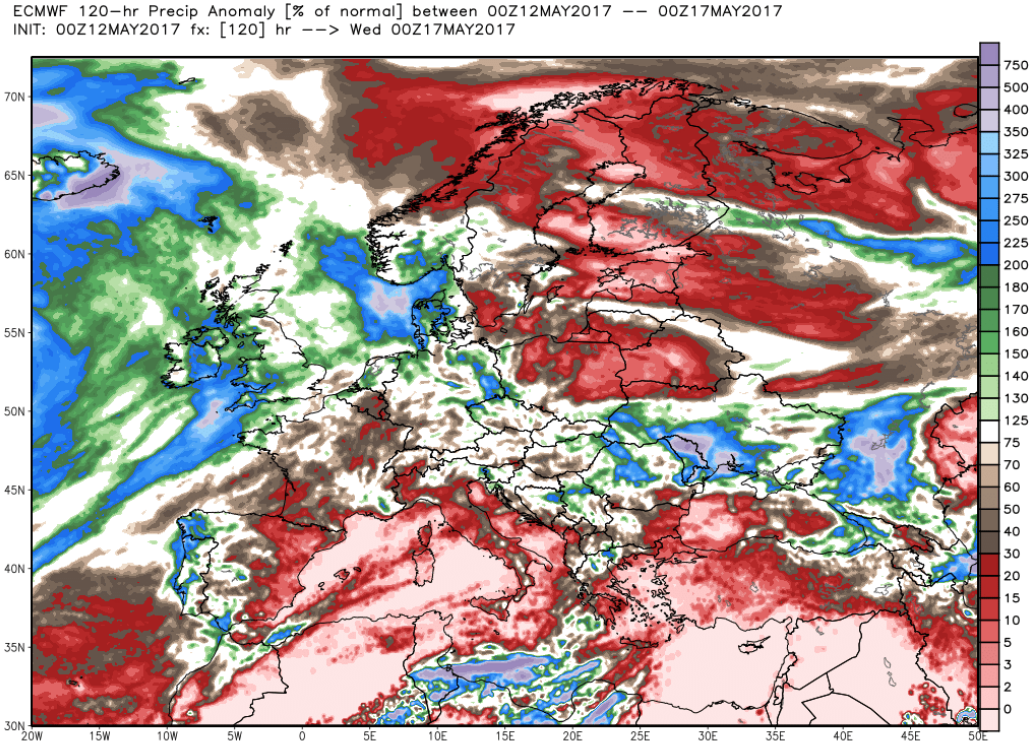


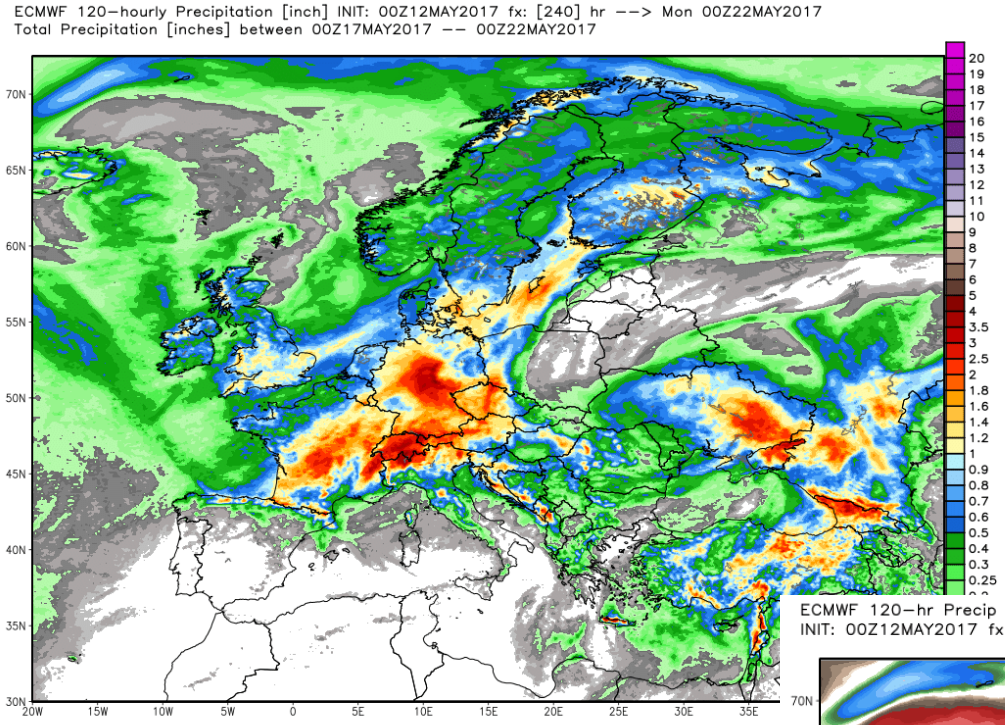

ECMWF EPS Ensemble Mean 500 hPa Z [dm] & Normalized Anomaly [std devs]
INIT: 00Z12MAY2017 fx: [084] hr --> Mon 12Z15MAY2017
Min|Max: −2.2 | 2.4 std dev
RIDGE


ECMWF EPS Ensemble Mean 500 hPa Z [dm] & Normalized Anomaly [std devs]
INIT: 00Z12MAY2017 fx: [156] hr --> Thu 12Z18MAY2017
Min|Max: −2.1 | 1.4 std dev
TROUGH
RIDGE

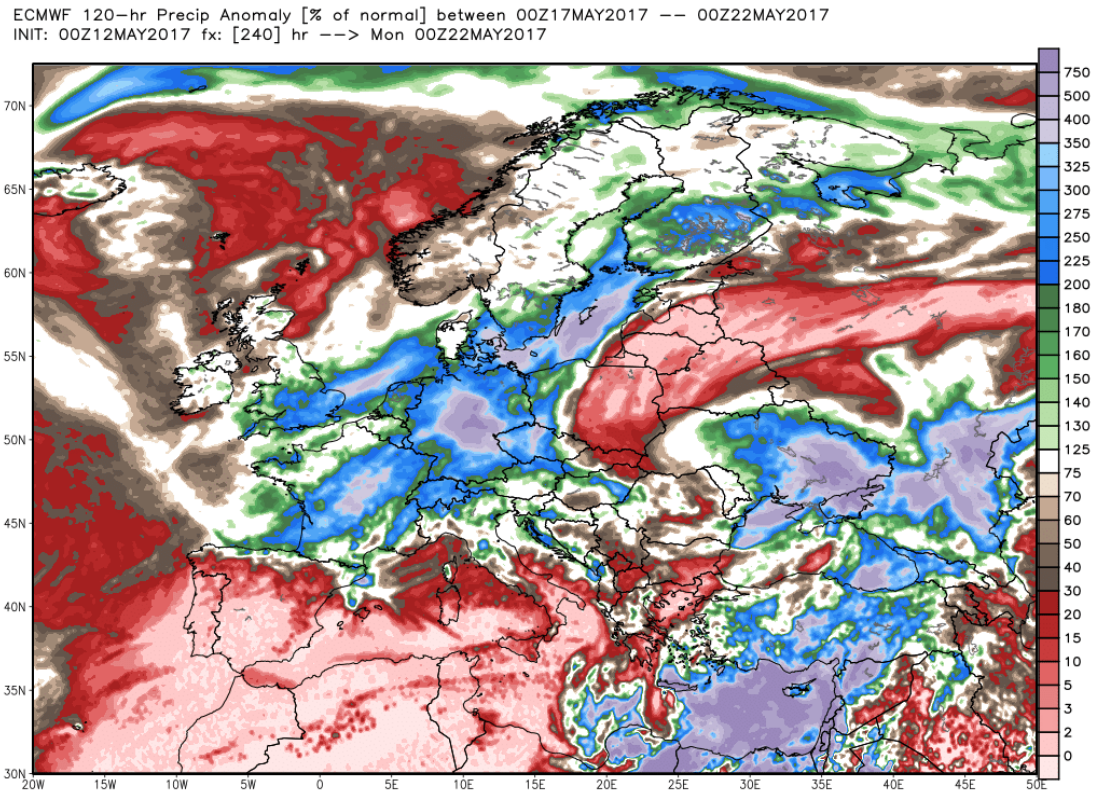


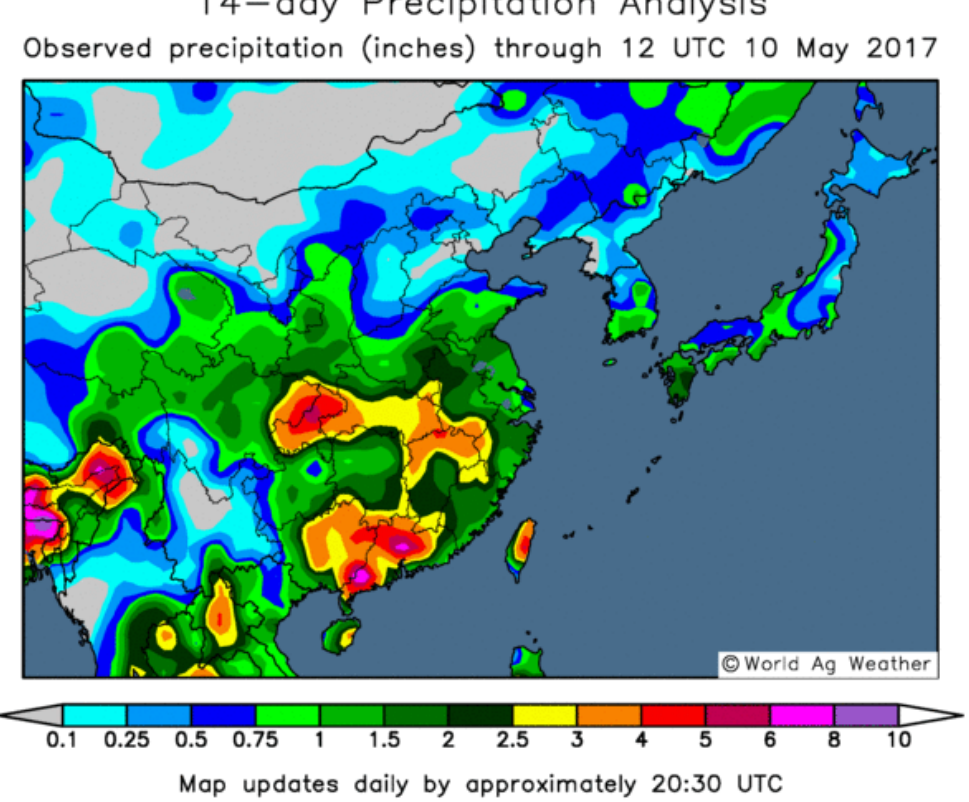
Moderate rains over much of Europe 1-2”/ 25-50mm over much of UKRAINE & SOUTHERN District





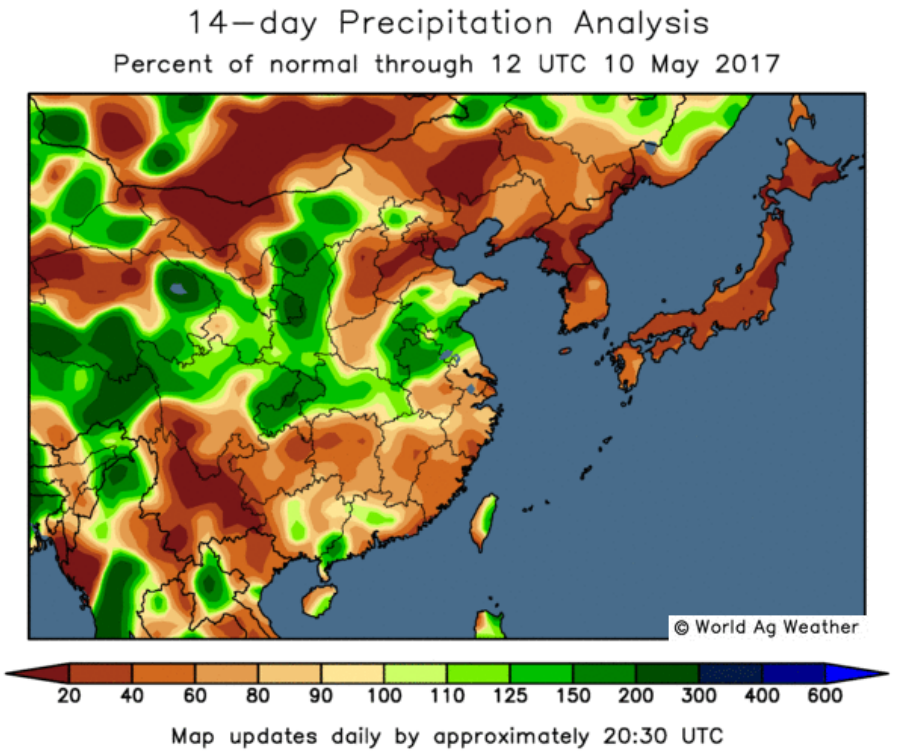
6-10D = 0.75-3.0" / 20-75mm over central eastern FR much of GER & eastern UKRAINE & SOUTHERN Districts



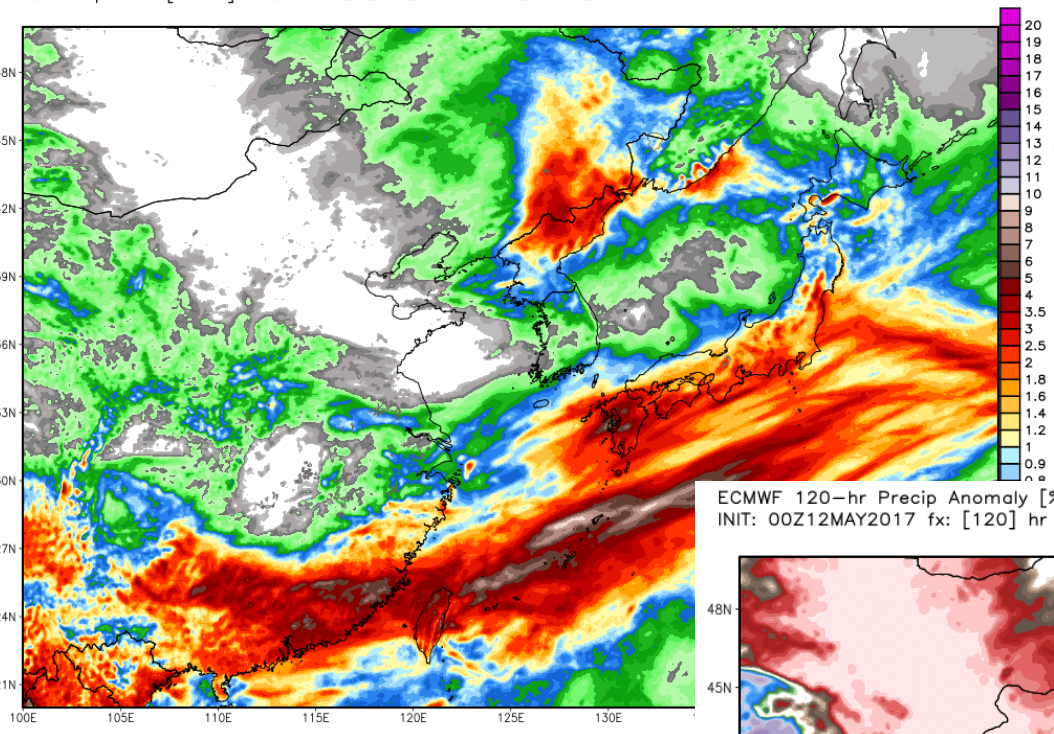


northern half of NCP & MANCHURIA very dry last 14 days

southern half NCP wet ..southern half of China dry

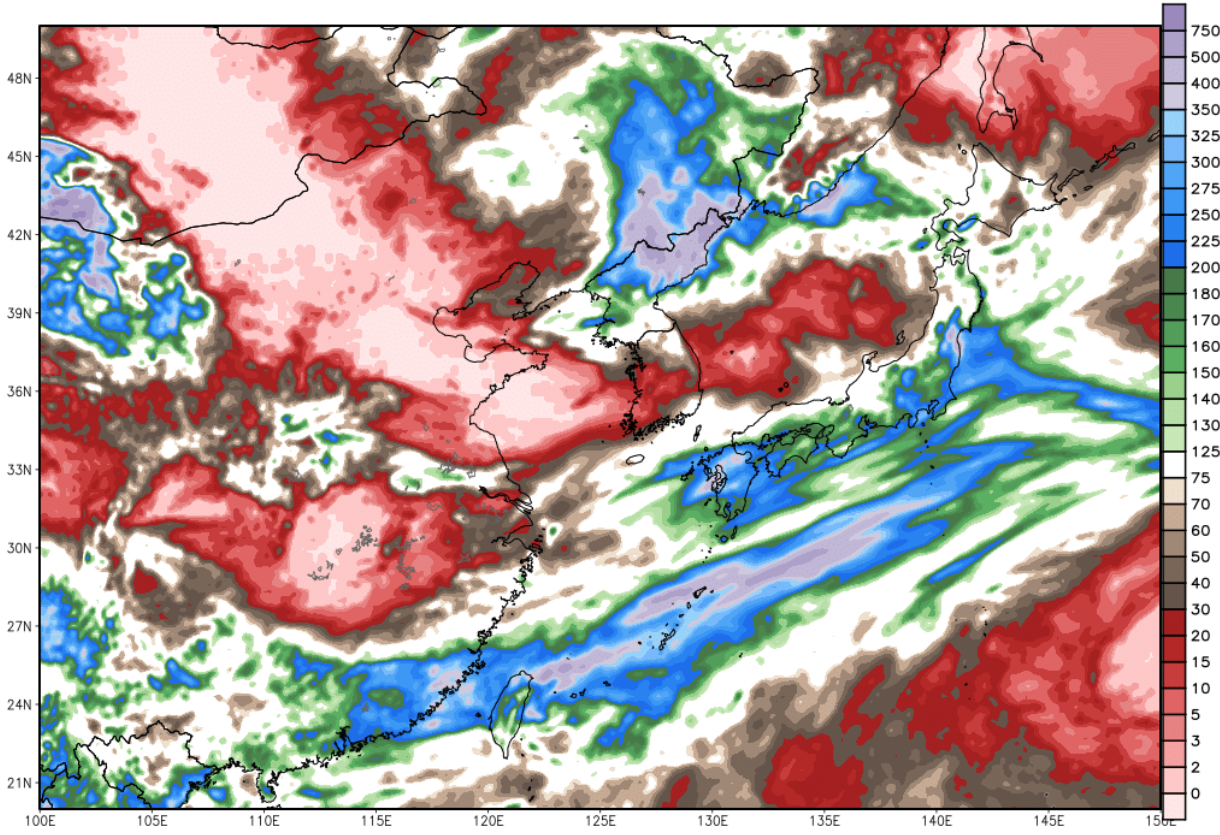


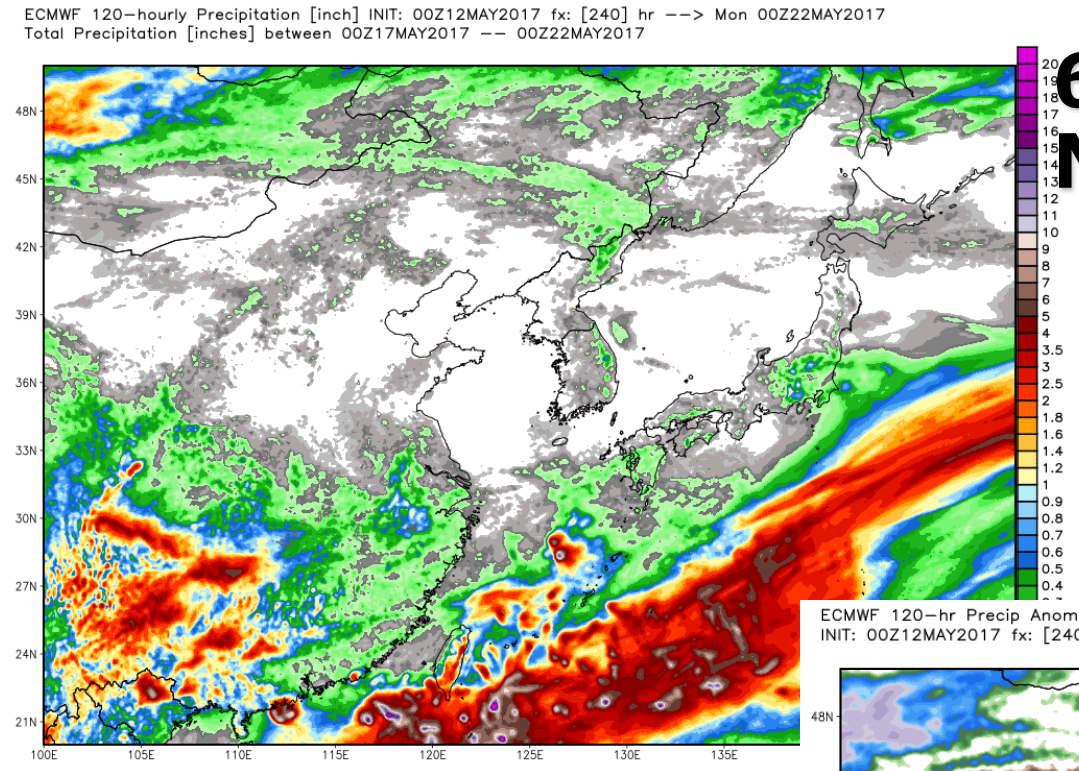
ECMWF 120-hourly Precipitation [inch] INIT: 00Z12MAY2017 fx: [120] hr --> Wed 00Z17MAY2017
Total Precipitation [inches] between 00Z12MAY2017 -- 00Z17MAY2017



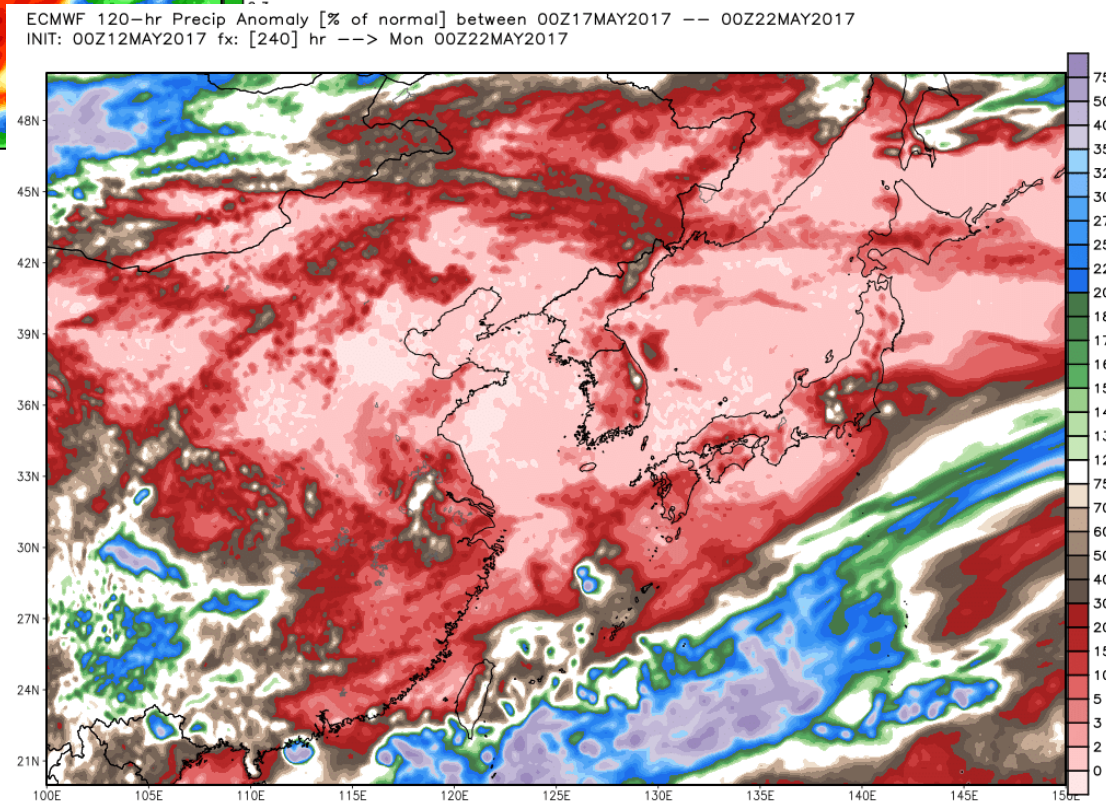
1-5D- great rains for se China BUT 100% dry NCP & all Manchuria

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

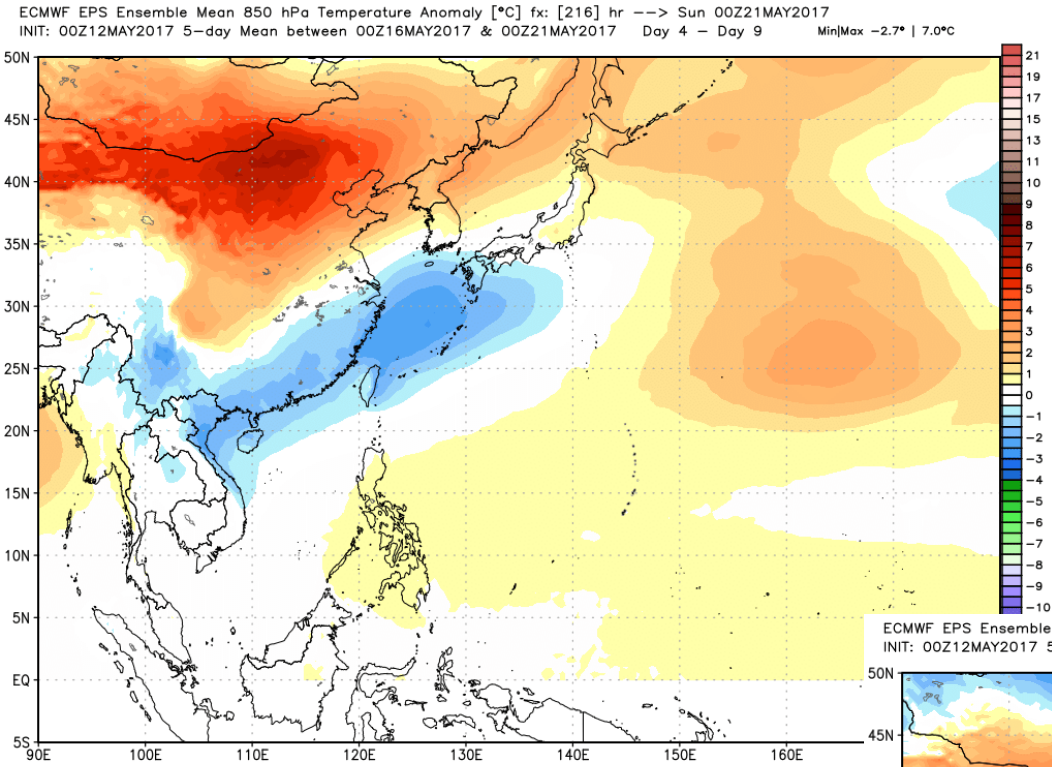


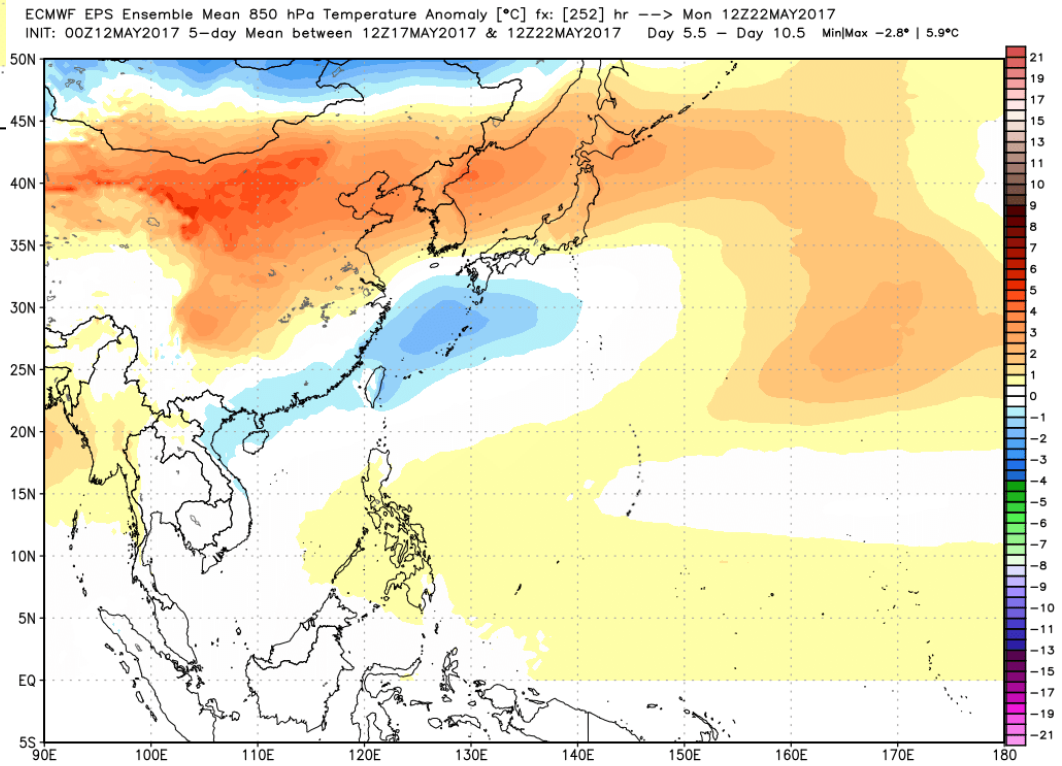


6-10D- 100% dry NCP & all Manchuria



6-10- TEMPS turn hot over the NCP & all Manchuria





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