

Global Tropics Hazards And Benefits Outlook

September 8, 2015

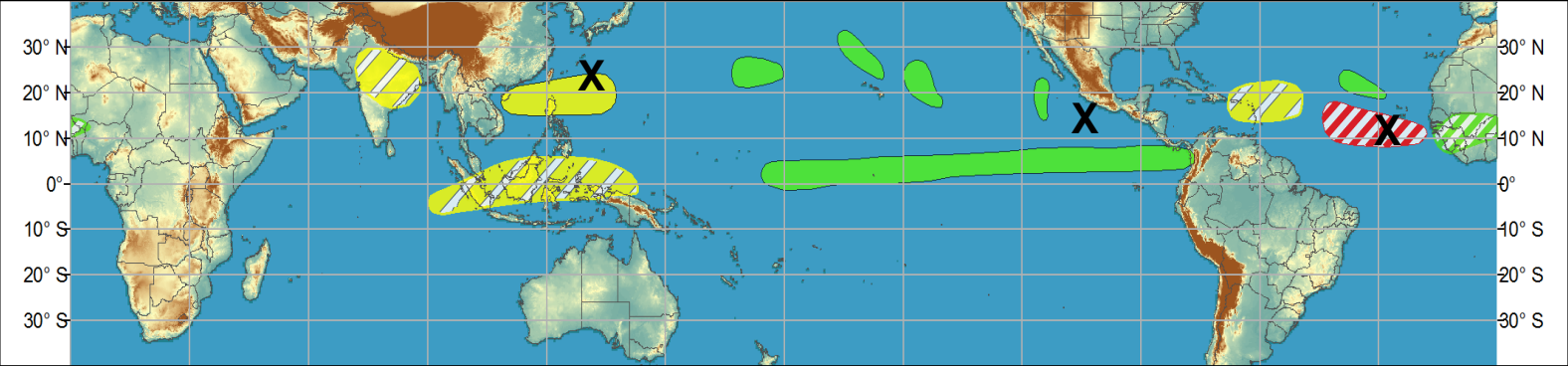
Adam Allgood

Outline

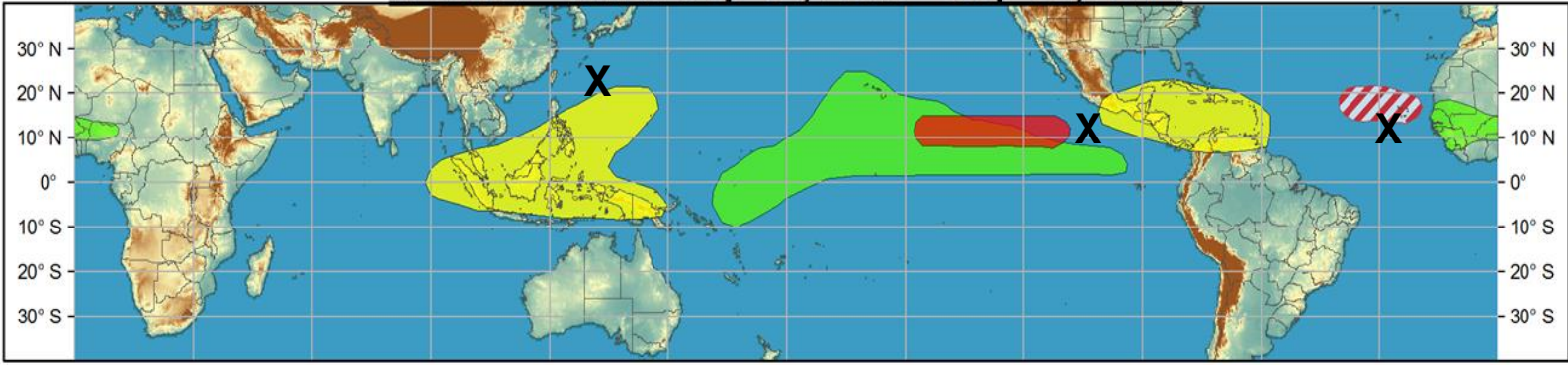
1. Review of Recent Conditions
2. Synopsis of Climate Modes
3. GTH Outlook and Forecast Discussion
4. Connections to U.S. Impacts

Outlook Review

Week 1 - Valid: Sep 02, 2015 - Sep 08, 2015

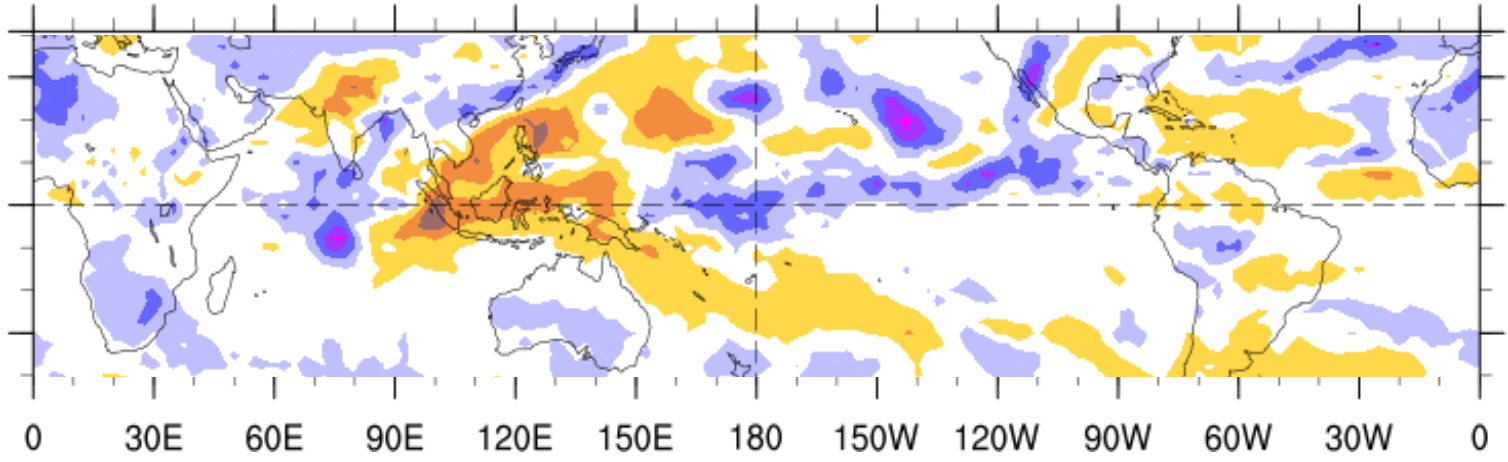


Week 2 - Valid: Sep 02, 2015 - Sep 08, 2015

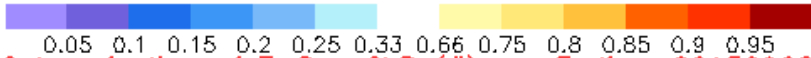
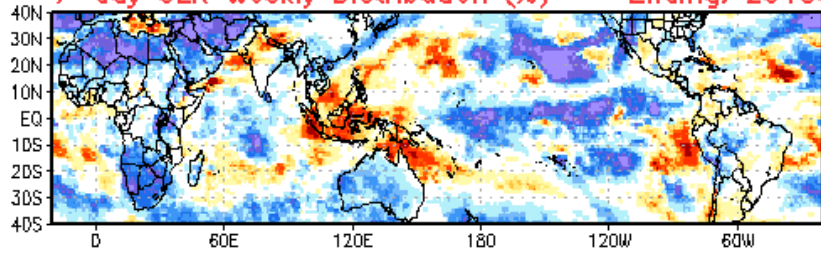


7-Day Average OLR Anomaly

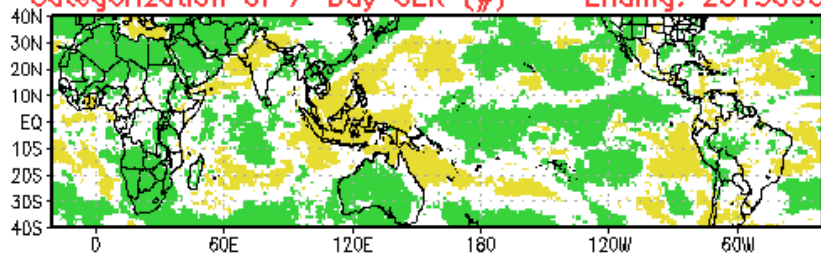
2015/08/31 - 2015/09/06



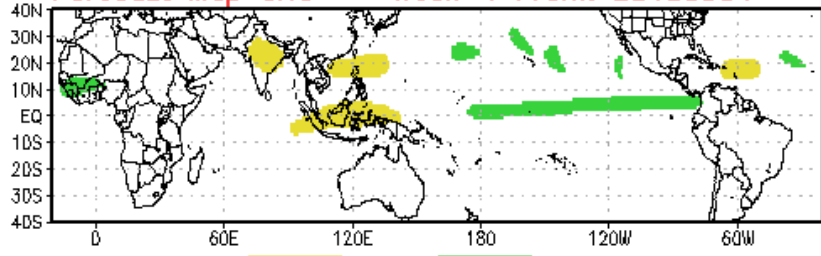
7-day OLR Weekly Distribution (%) -- Ending: 20150908



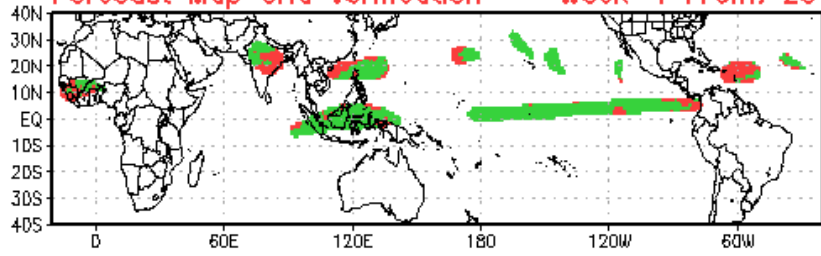
Categorization of 7-Day OLR (#) -- Ending: 20150908



Forecast Map Grid -- Week-1 From: 20150901

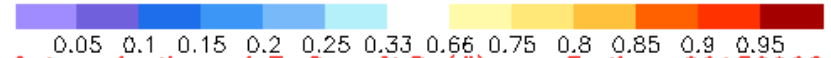
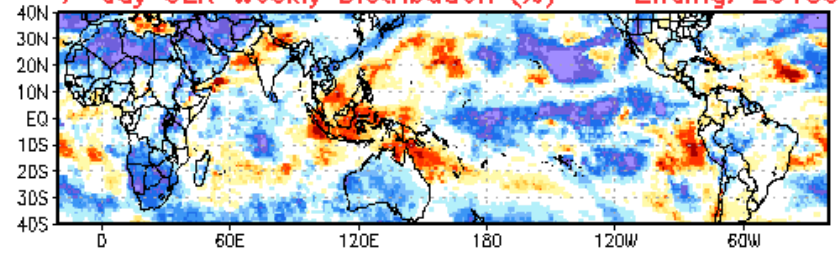


Forecast Map Grid Verification -- Week-1 From: 20150901

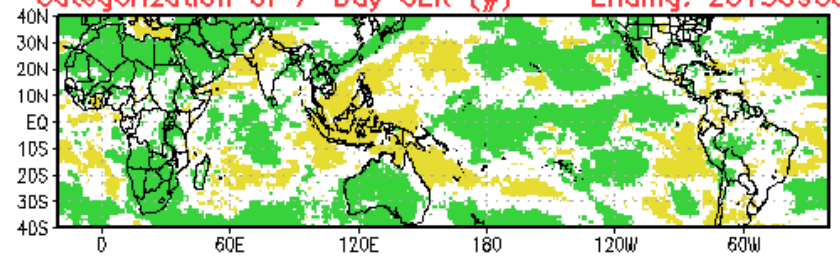


Hit: Green, Miss: Red
Heidke Skill Score: 59.5132

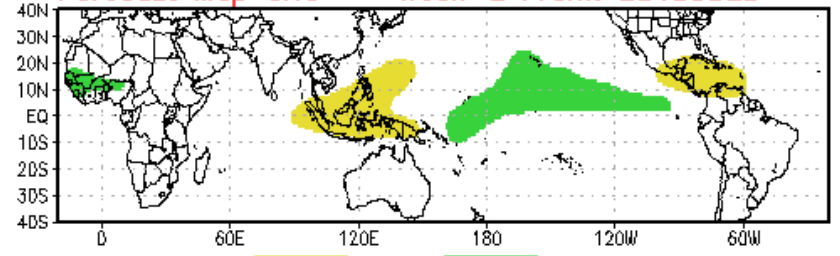
7-day OLR Weekly Distribution (%) -- Ending: 20150908



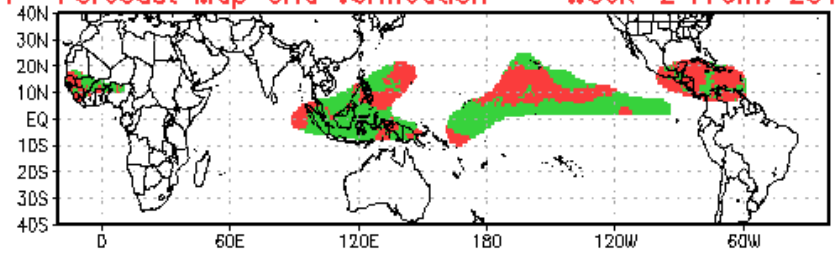
Categorization of 7-Day OLR (#) -- Ending: 20150908



Forecast Map Grid -- Week-2 From: 20150825



Forecast Map Grid Verification -- Week-2 From: 20150825



Hit: Green, Miss: Red
Heidke Skill Score: 32.9550

Synopsis of Climate Modes

ENSO:

- Current: [El Niño Advisory](#)
- Outlook: There is a greater than 90% chance that El Niño will continue through Northern Hemisphere winter 2015-16, and around an 85% chance it will last into early spring 2016.

MJO and other subseasonal tropical variability:

- The MJO remains weak, and is not anticipated to be a contributor to the pattern of tropical convection.
- There is a weak eastward propagating feature in OLR/upper-level winds that may contribute to increased favorability for TC development over the EPac.
- MJO Index forecasts are all over the place, although most indicate increasing amplitude either over the Maritime Continent or the West Pacific.

Extratropics:

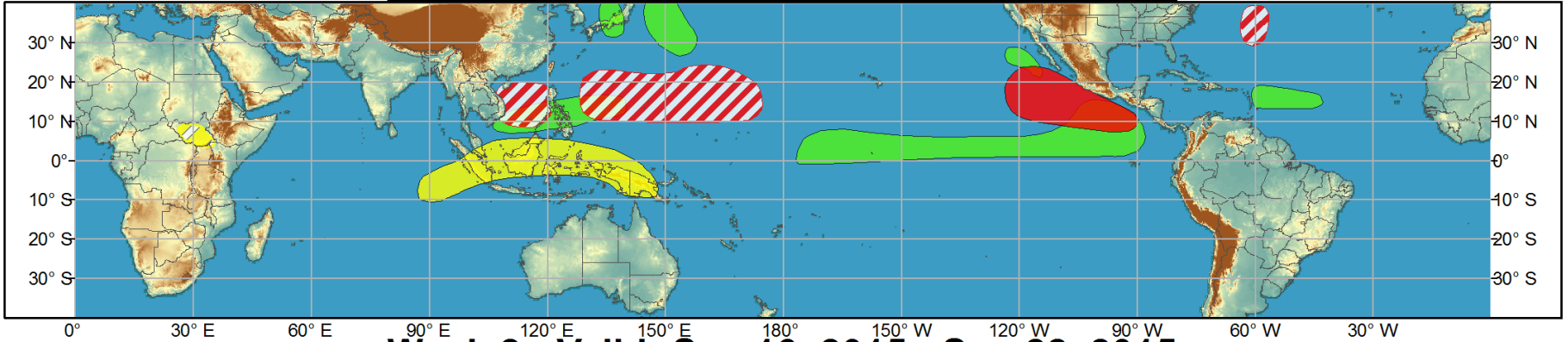
- While no MJO impacts to the US are anticipated, recurving tropical cyclones may play a role in amplifying the pattern during the next several weeks. Additionally, potential TC activity over the East Pacific may help bring additional monsoonal moisture across the Southwest.



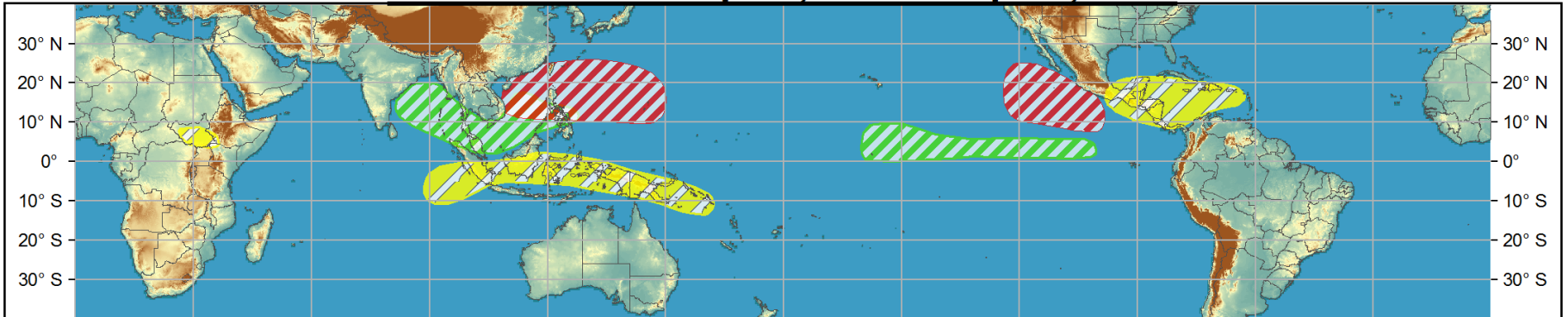
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center



Week 1 - Valid: Sep 09, 2015 - Sep 15, 2015

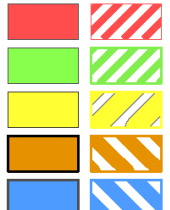


Week 2 - Valid: Sep 16, 2015 - Sep 22, 2015



Confidence
High Moderate

- Tropical Cyclone Formation**
- Above-average rainfall**
- Below-average rainfall**
- Above-normal temperatures**
- Below-normal temperatures**



- Development of a tropical cyclone (tropical depression - TD, or greater strength).
- Weekly total rainfall in the upper third of the historical range.
- Weekly total rainfall in the lower third of the historical range.
- 7-day mean temperatures in the upper third of the historical range.
- 7-day mean temperatures in the lower third of the historical range.

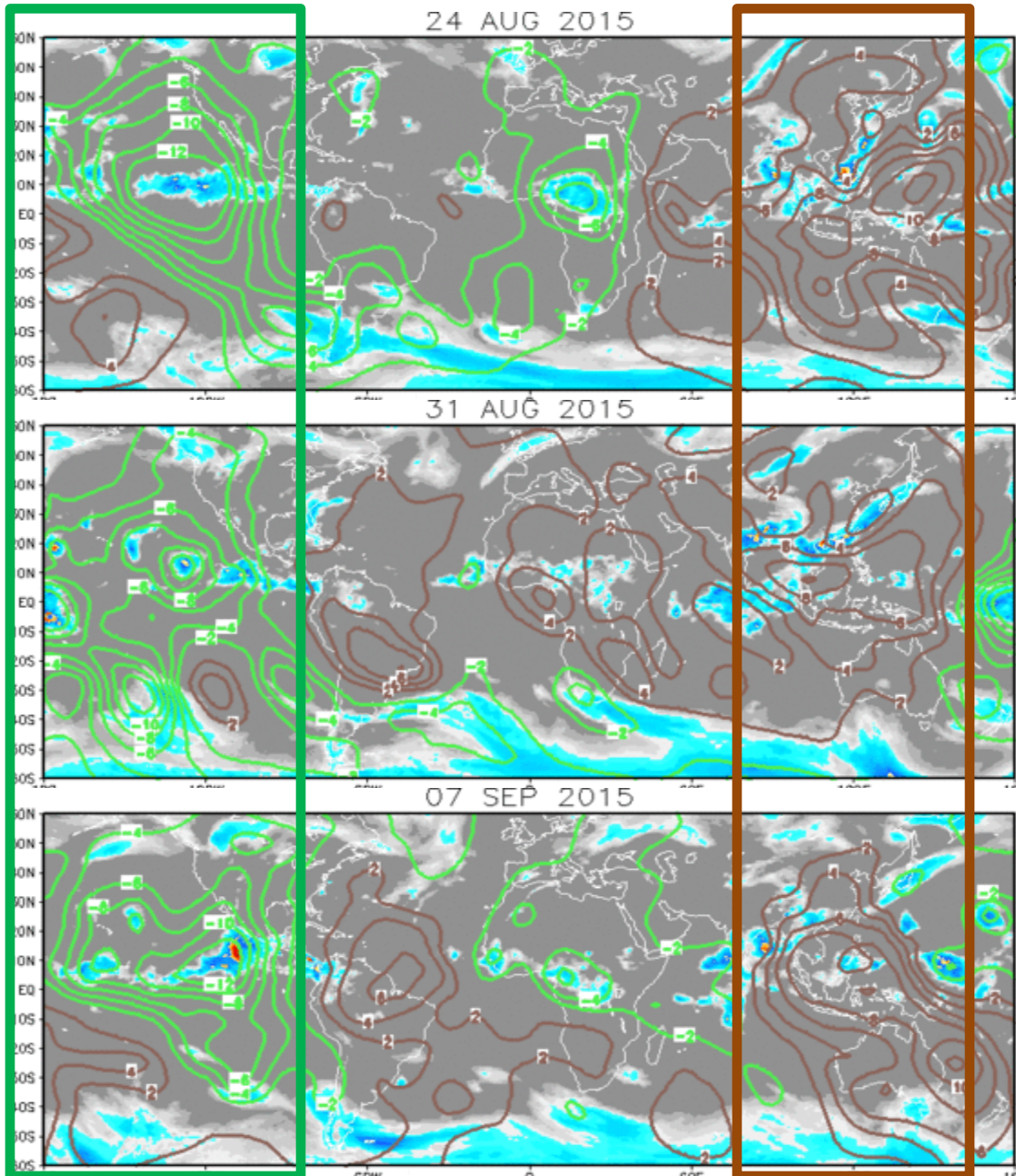
Produced: 09/08/2015
Forecaster: Allgood

Product is updated once per week, except from 6/1 - 11/30 for the region from 120E to 0, 0 to 40N. The product targets broad scale conditions integrated over a 7-day period for US interests only. Consult your local responsible forecast agency.

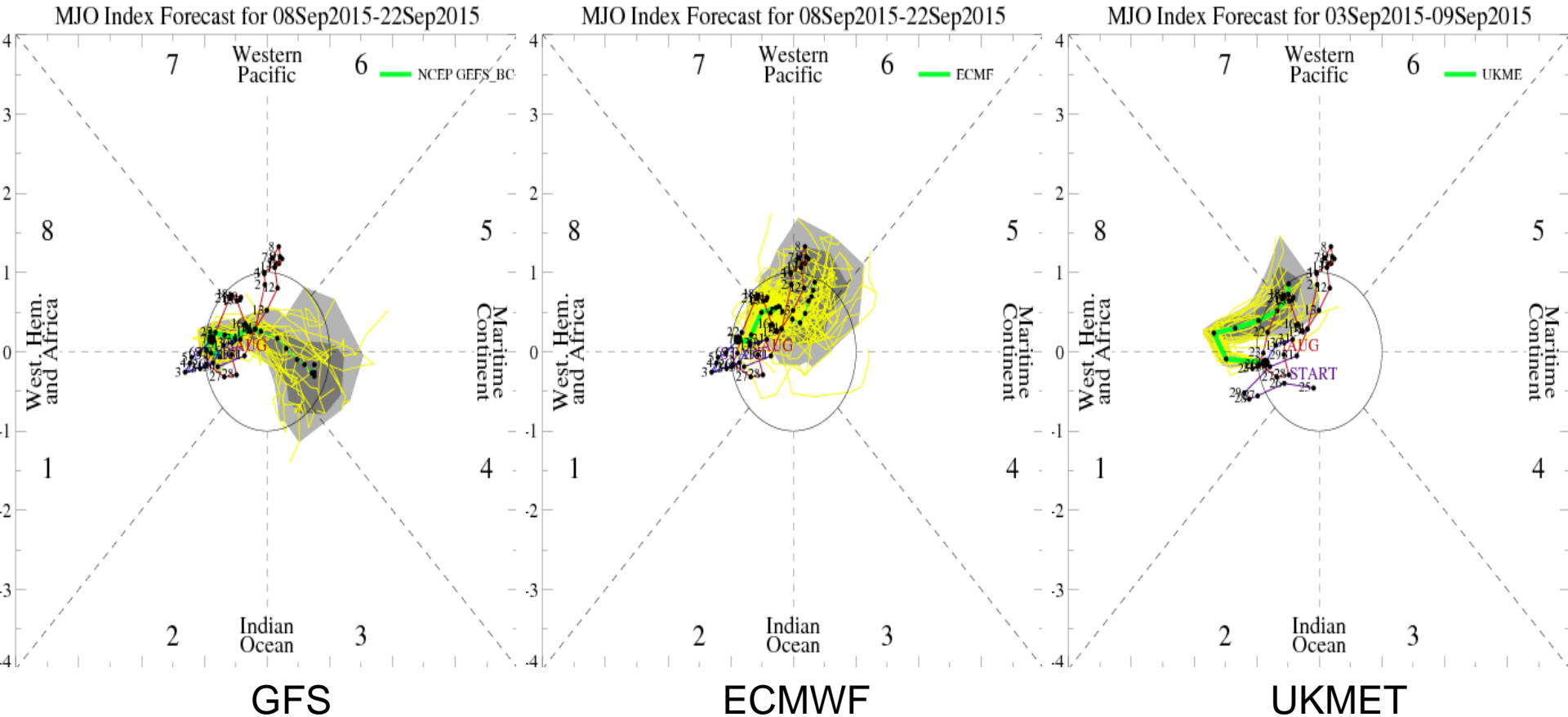


IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence Brown: Enhanced Convergence

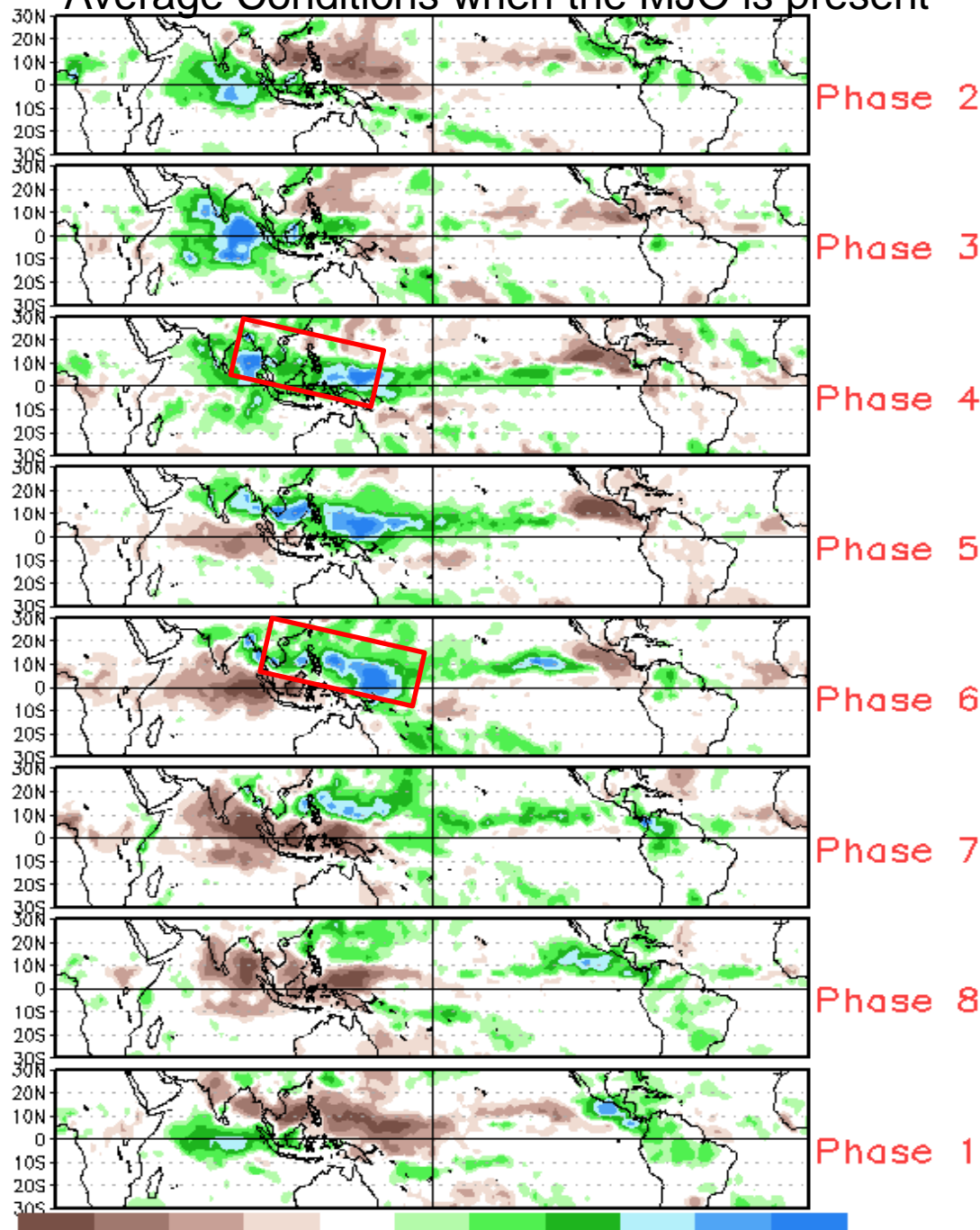


MJO Observation/Forecast

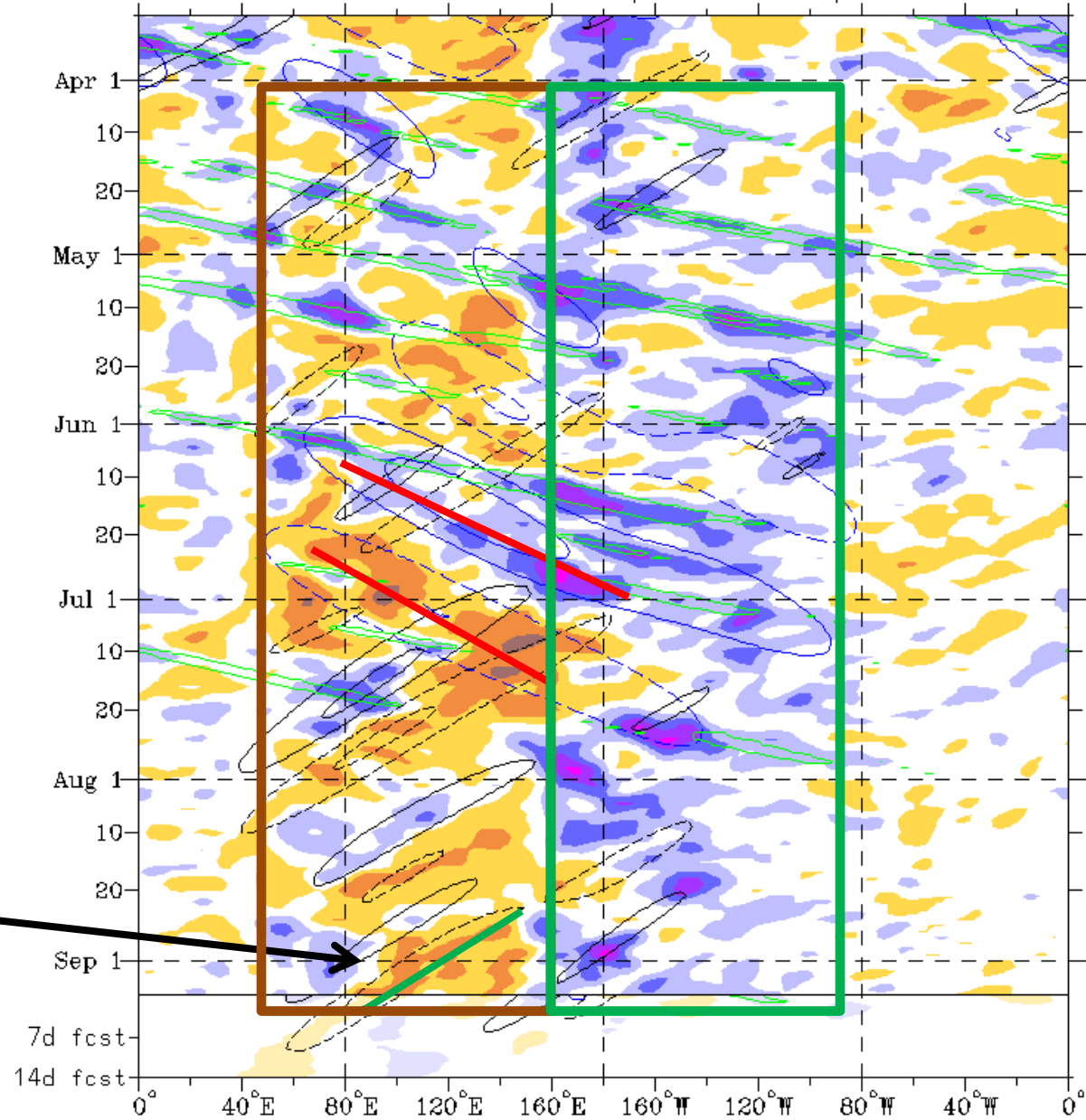


GFS – increased amplitude over the Maritime Continent during Week-2.
ECMWF – increased amplitude over the West Pacific during Week-2.
UKMET – signal favors the central/eastern Pacific.

Average Conditions when the MJO is present



CAVEAT: These panels are representative of robust MJO events.

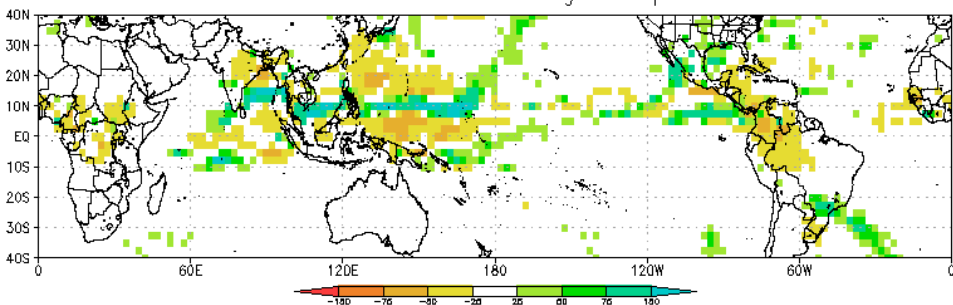


June MJO event indicated by red lines

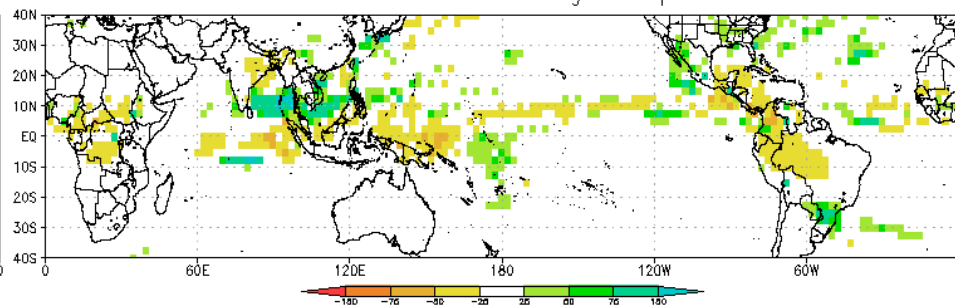
Low frequency El Niño (boxes) remains in the driver's seat.

Possible westward moving feature/monsoon fluctuations west of 120E.

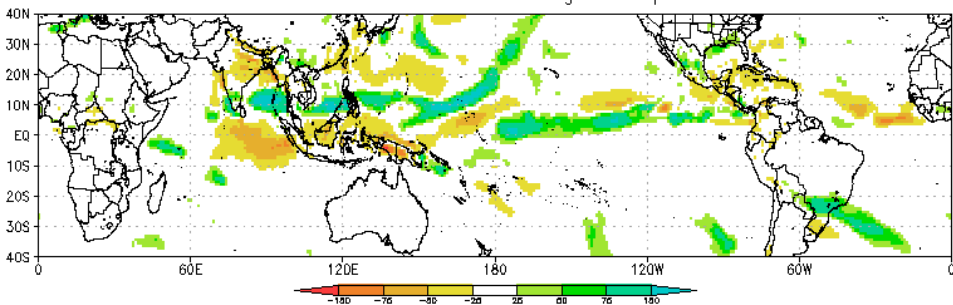
GFS Precip Anomalies (mm) Issued 07Sep2015
Week-1 Forecast Ending 14Sep2015



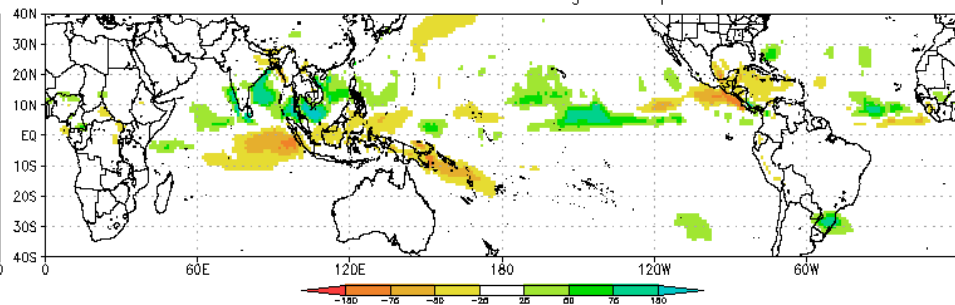
GFS Precip Anomalies (mm) Issued 07Sep2015
Week-2 Forecast Ending 21Sep2015



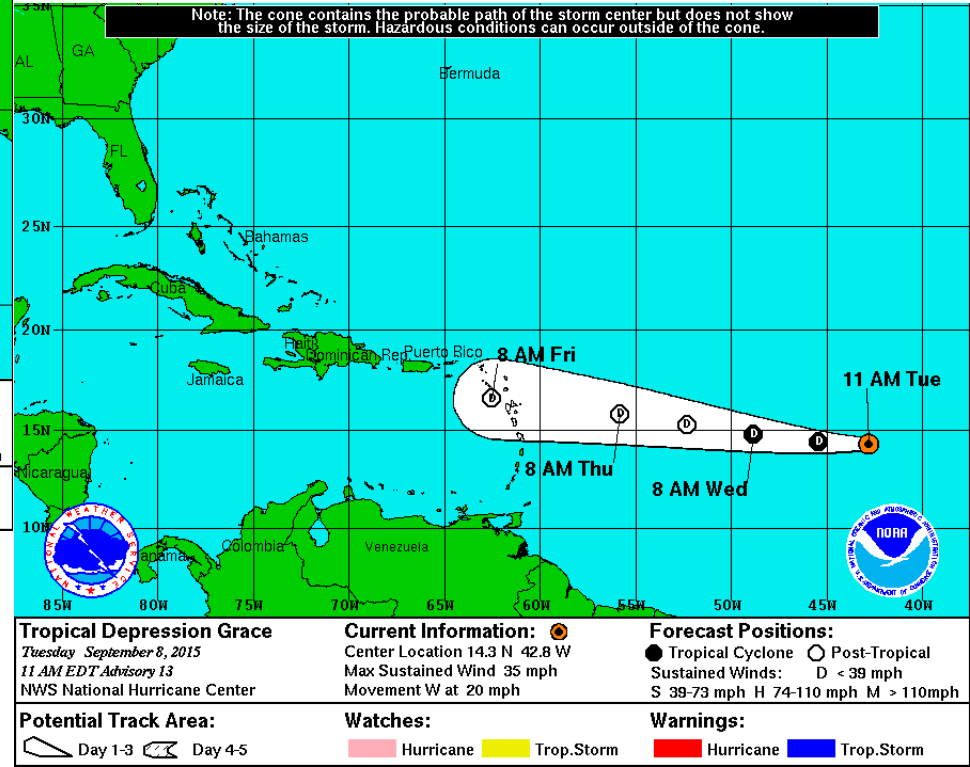
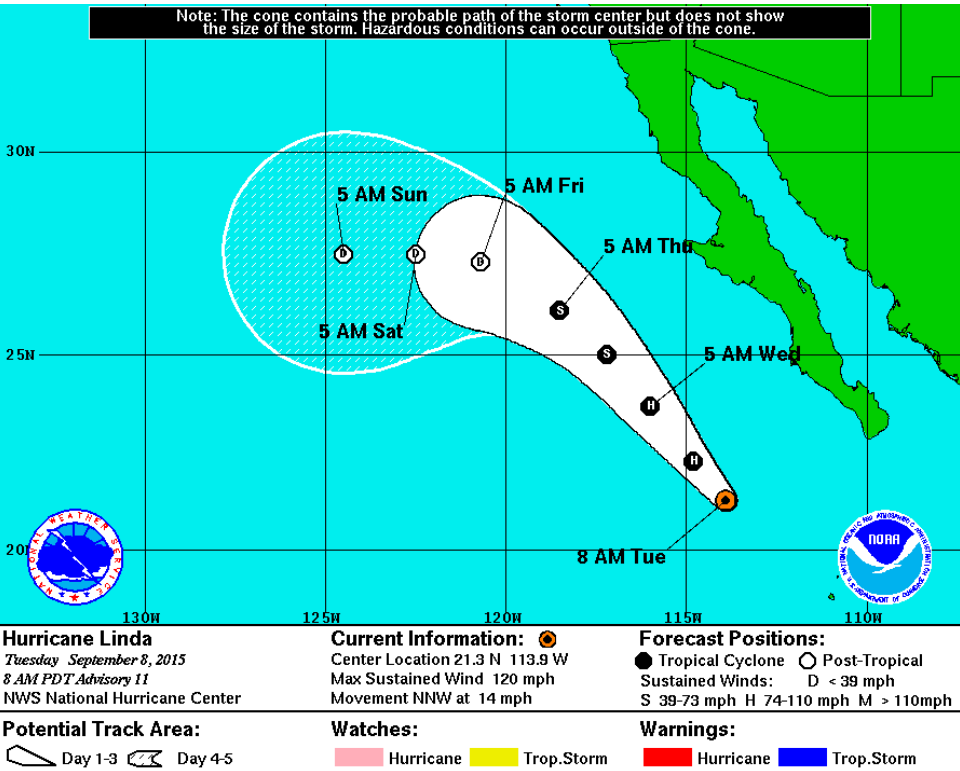
CFSv2 Precip Anomalies (mm) Issued 07Sep2015
Week-1 Forecast Ending 15Sep2015

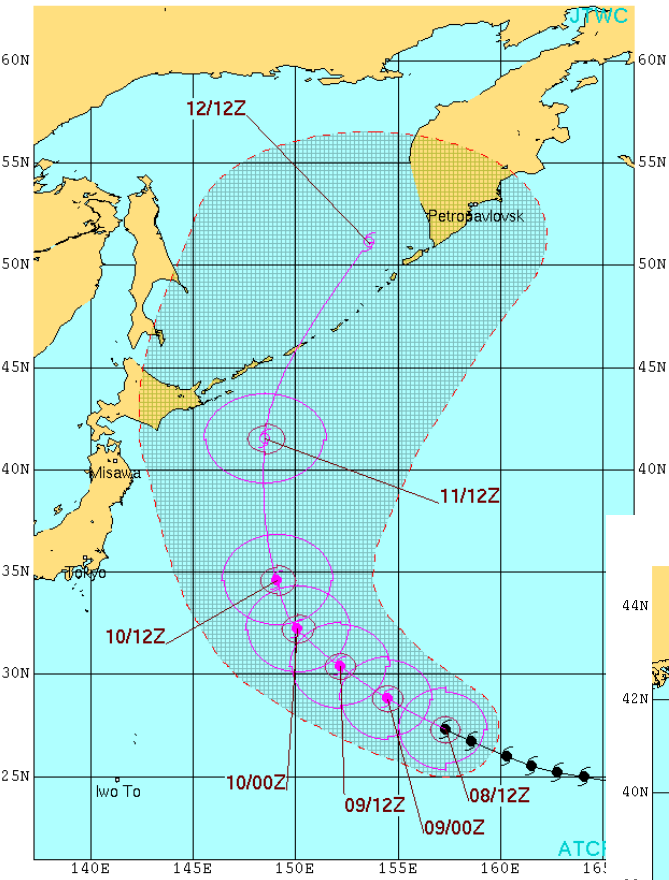


CFSv2 Precip Anomalies (mm) Issued 07Sep2015
Week-2 Forecast Ending 22Sep2015

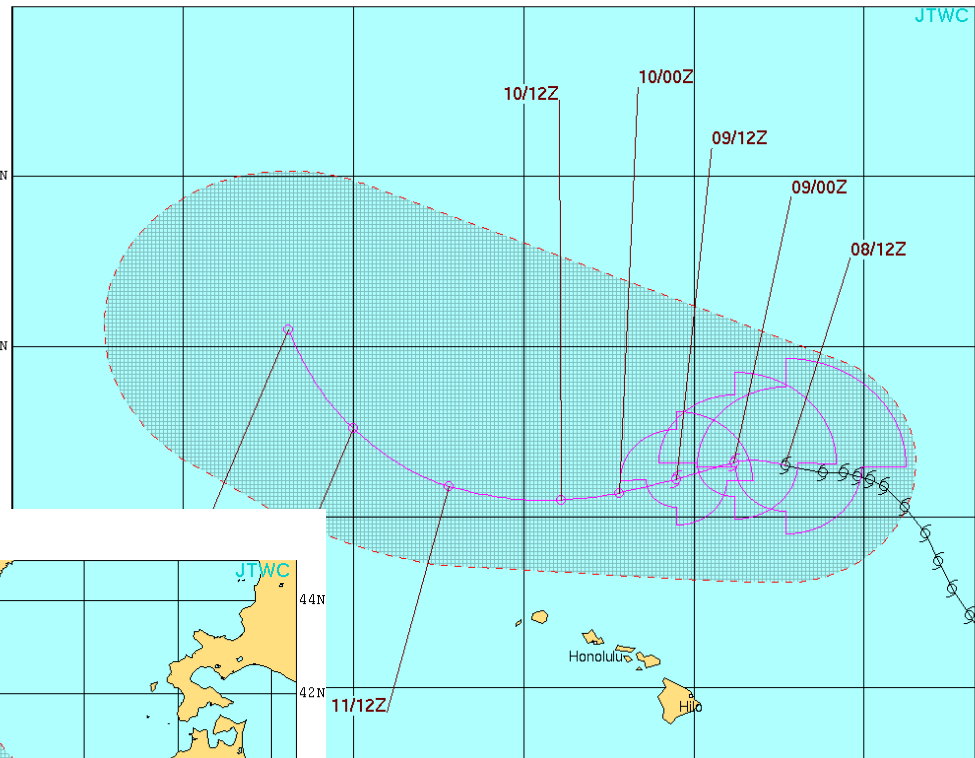


Atlantic and Epac Active TCs

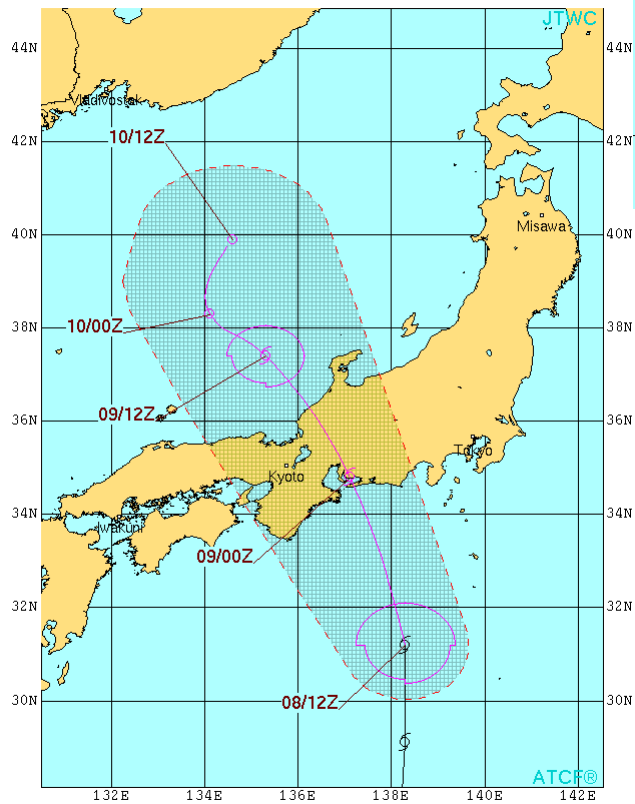




Kilo



Jimena

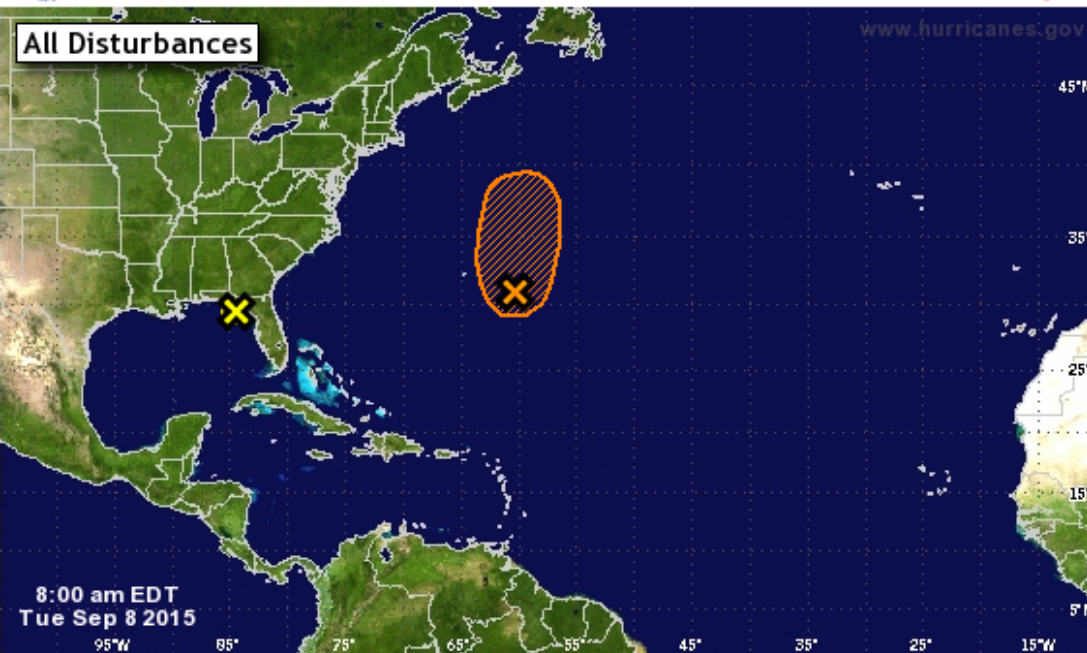


Etau



Five-Day Graphical Tropical Weather Outlook

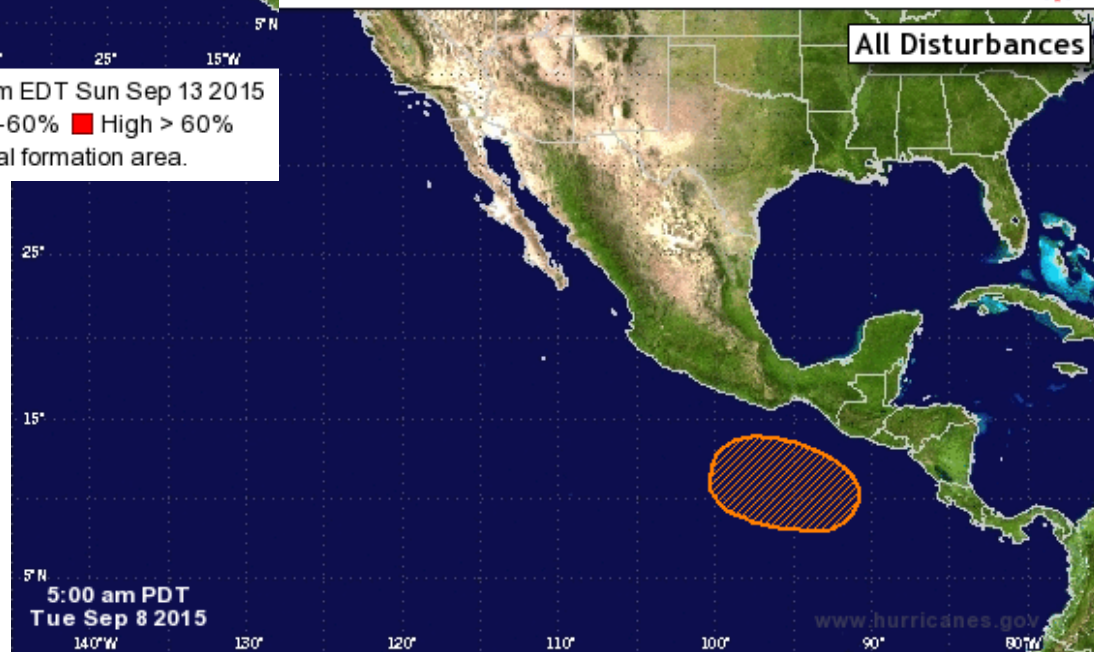
National Hurricane Center Miami, Florida



Tropical Cyclone Formation Potential for the 5-Day Period Ending 8:00 am EDT Sun Sep 13 2015
 Chance of Cyclone Formation in 5 Days: ■ Low < 40% ■ Medium 40-60% ■ High > 60%
 X indicates current disturbance location; shading indicates potential formation area.

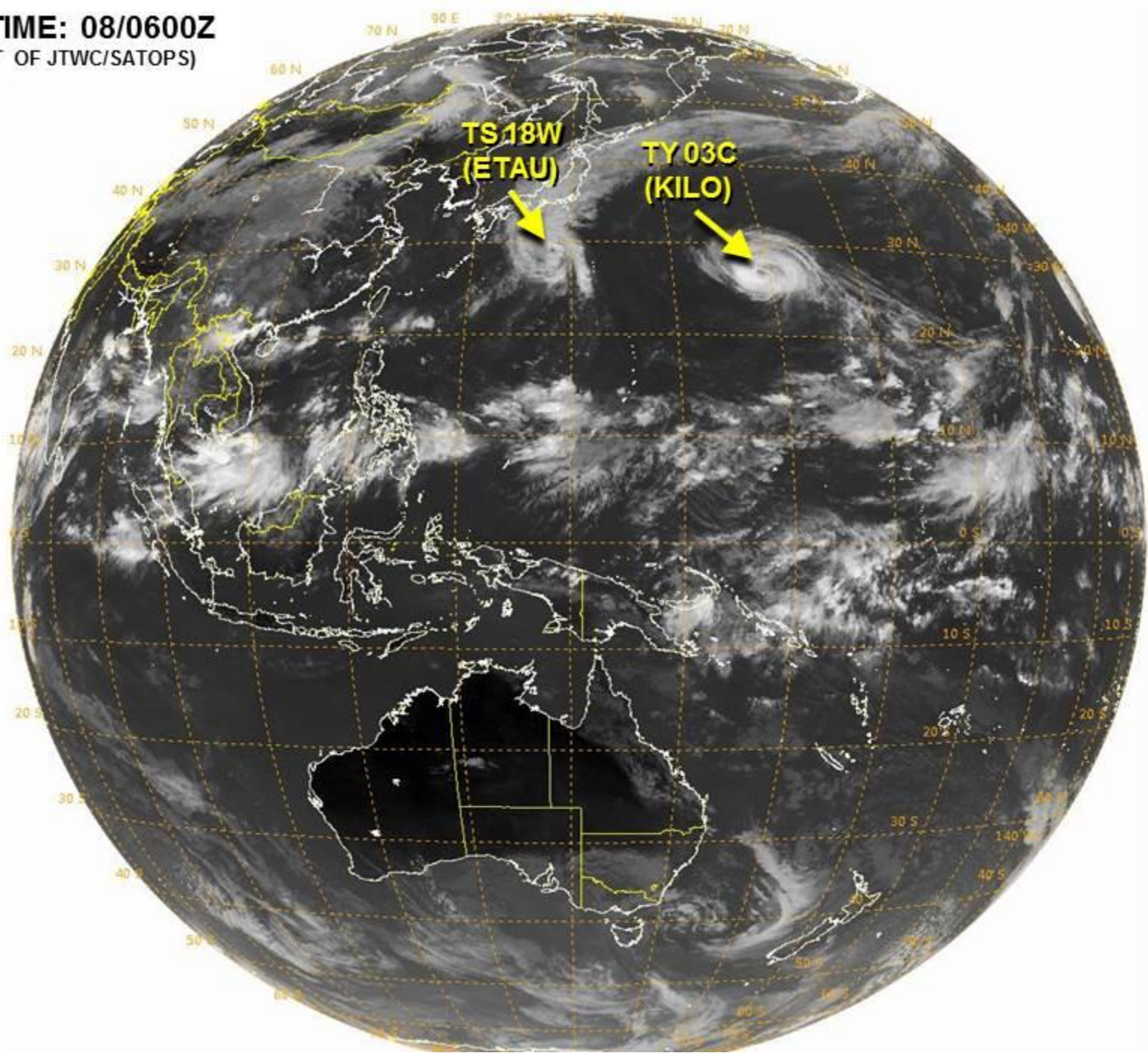
Five-Day Graphical Tropical Weather Outlook

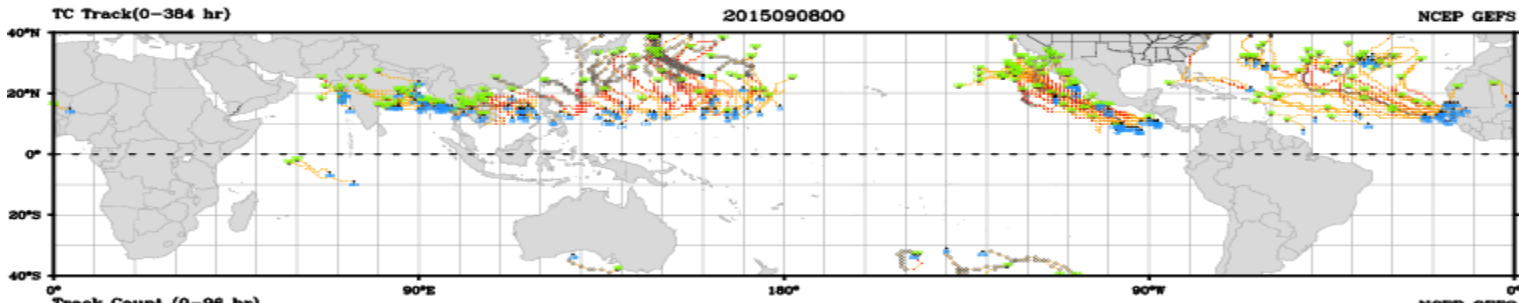
National Hurricane Center Miami, Florida



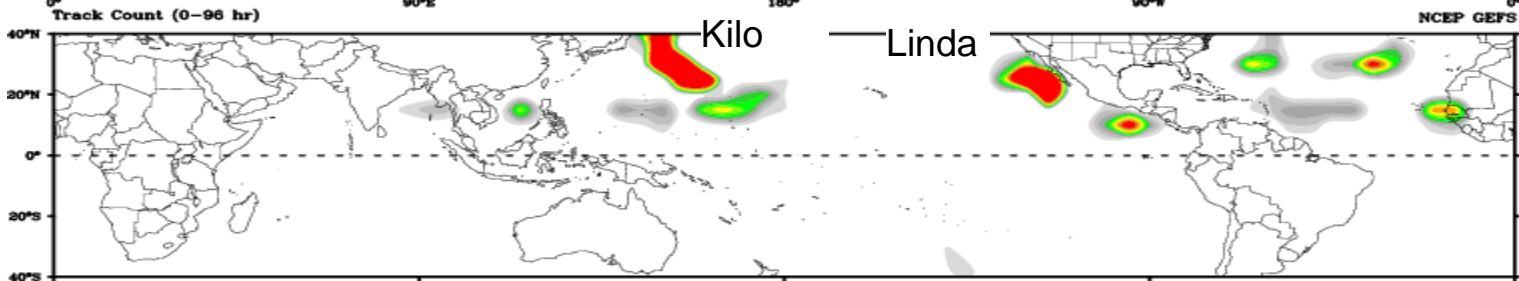
Tropical Cyclone Formation Potential for the 5-Day Period Ending 5:00 am PDT Sun Sep 13 2015
 Chance of Cyclone Formation in 5 Days: ■ Low < 40% ■ Medium 40-60% ■ High > 60%
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VALID TIME: 08/0600Z
(PRODUCT OF JTWC/SATOPS)

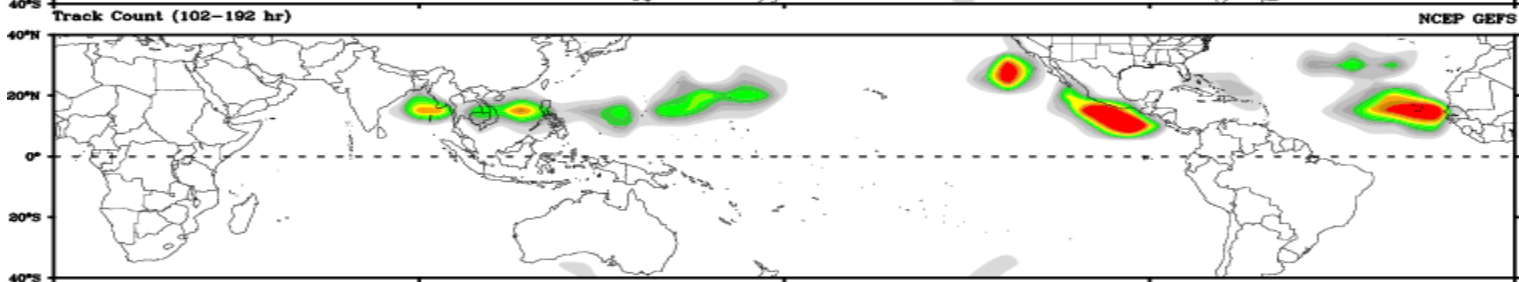




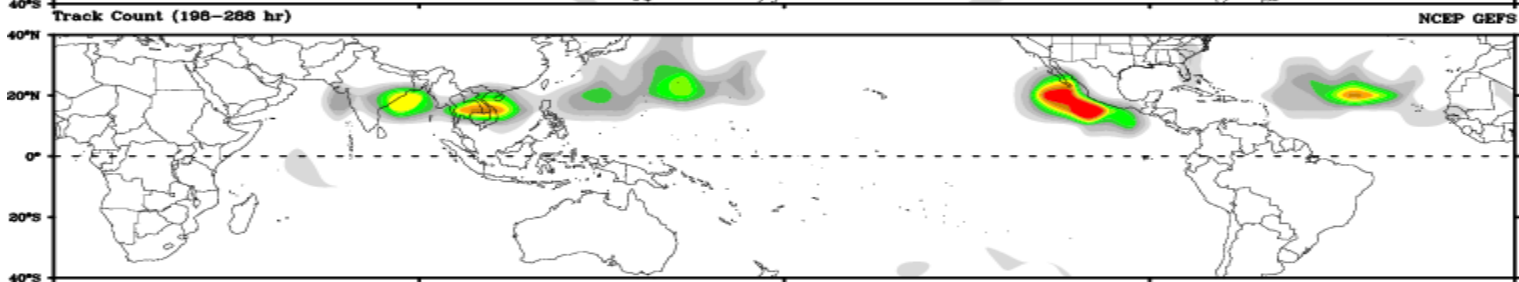
Days 1-4



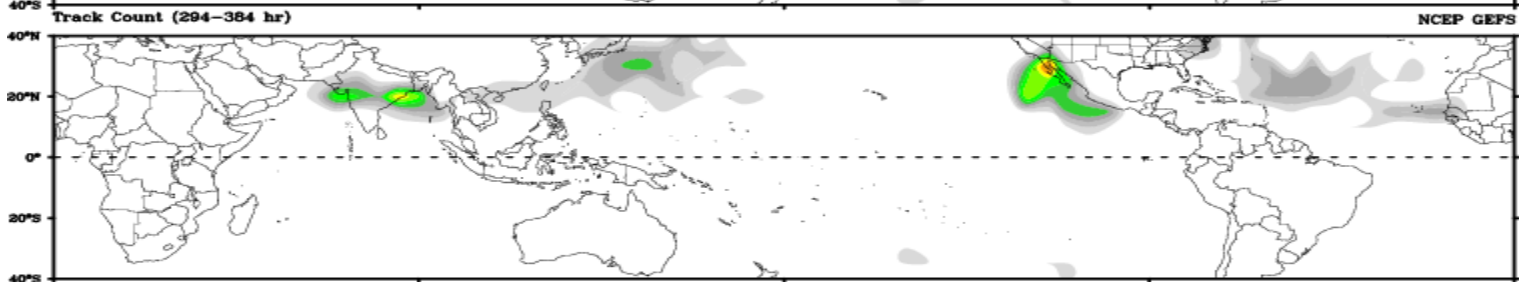
Day 5-8



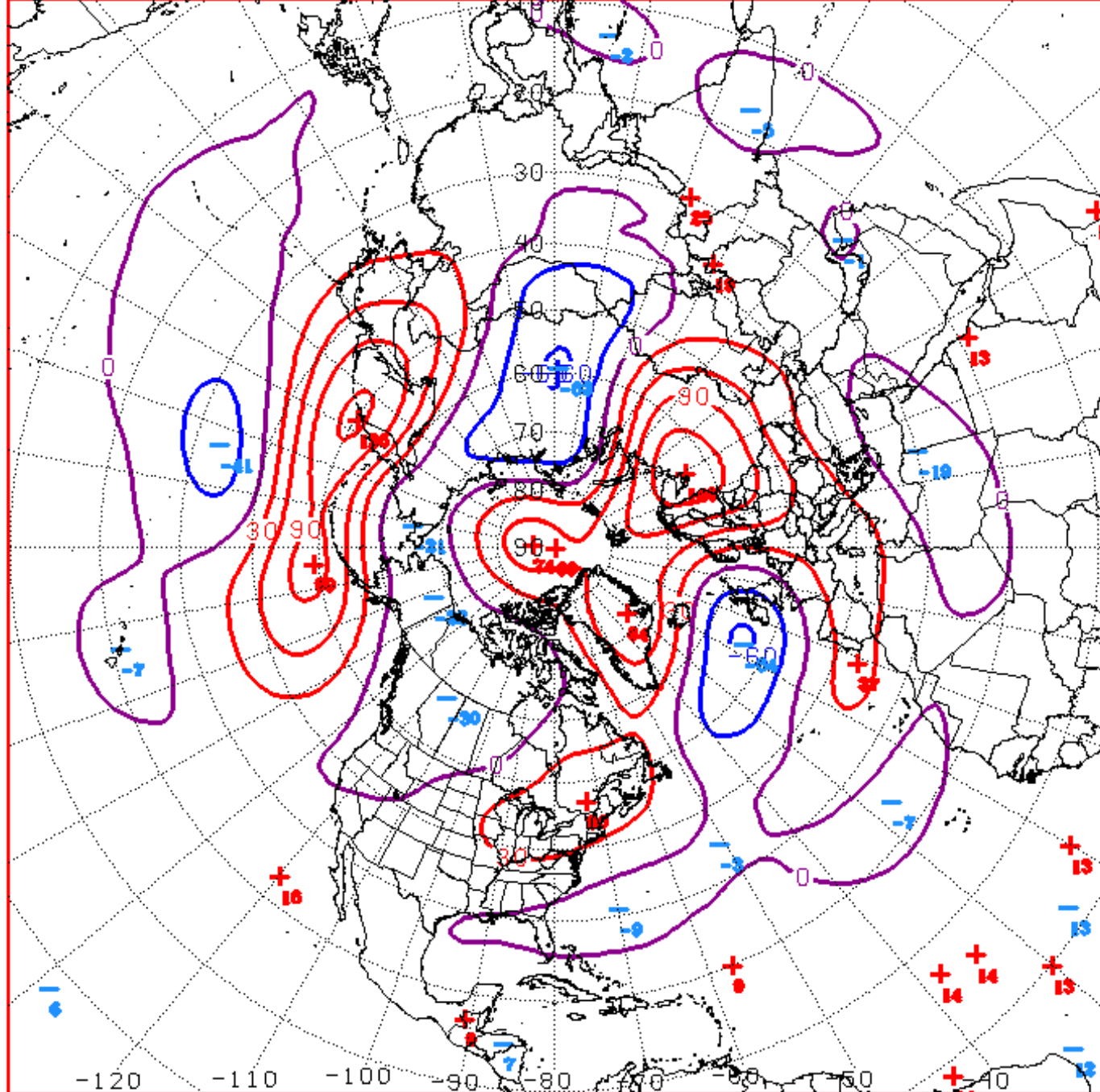
Day 9-12



Day 13-15

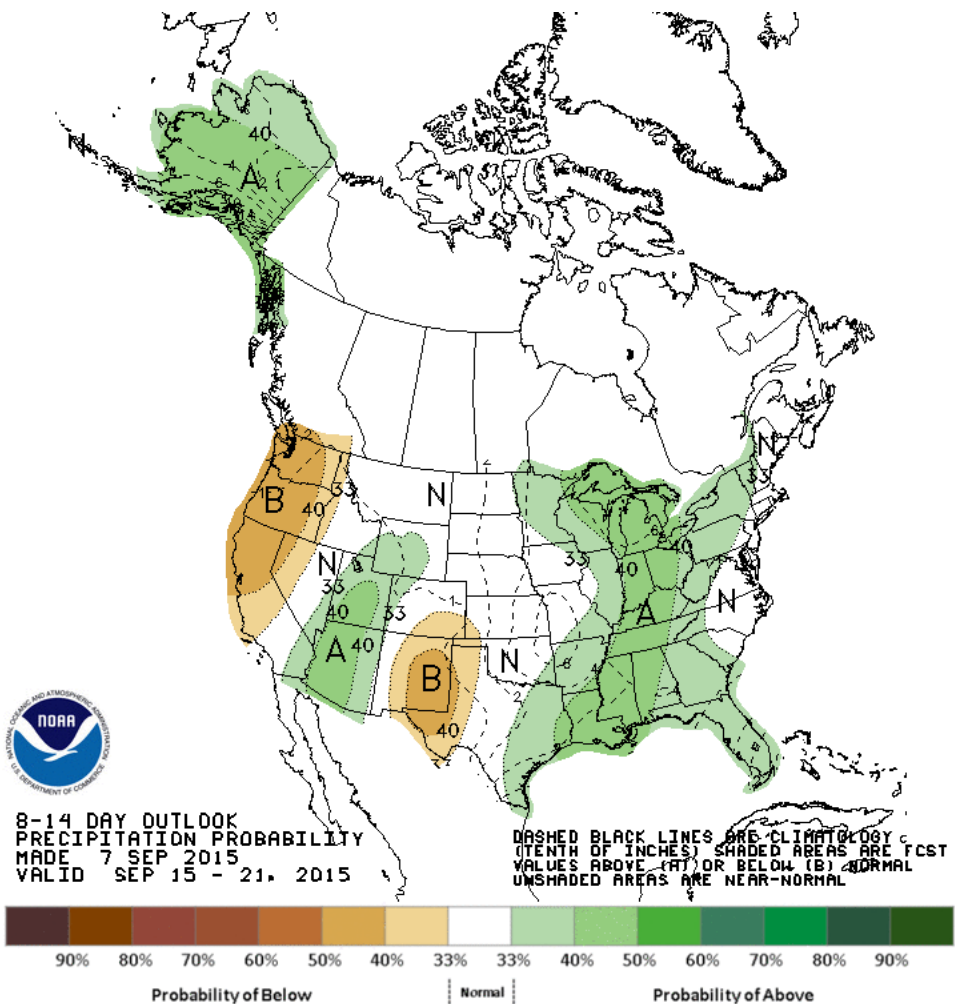
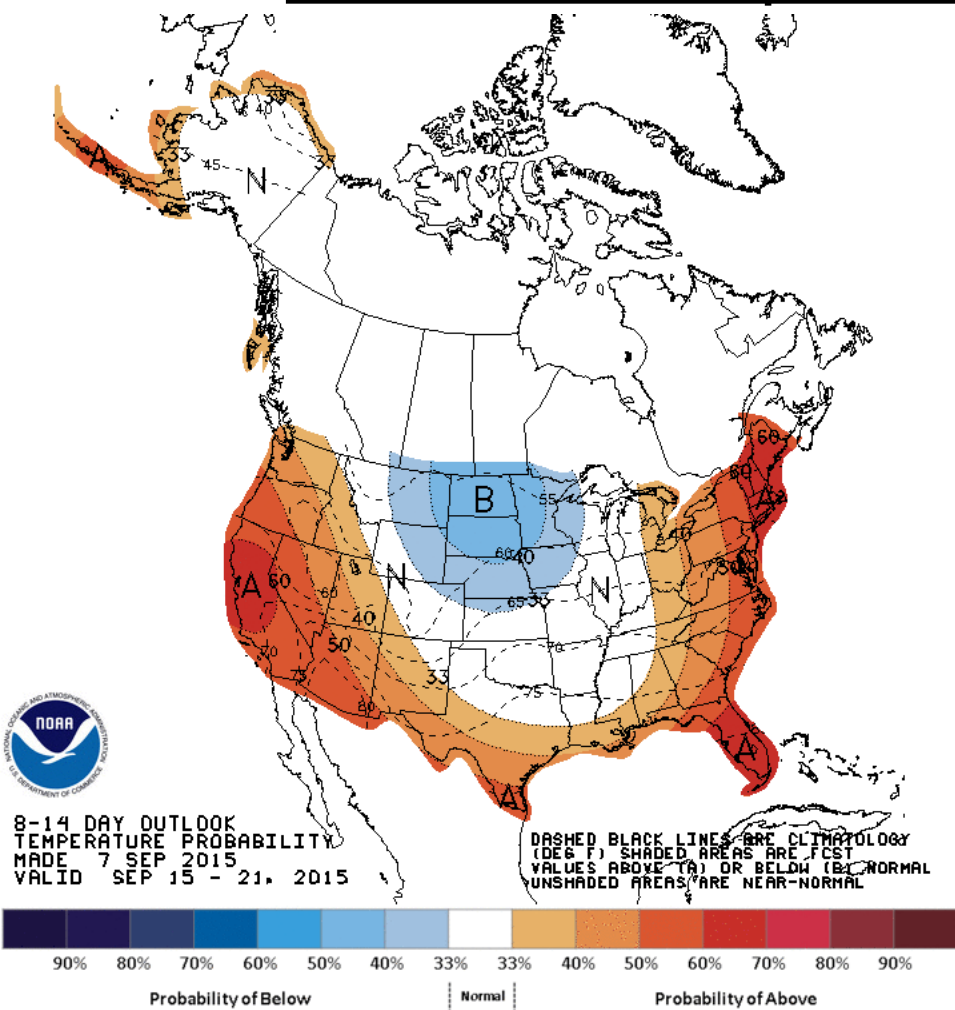


Connections to U.S. Impacts



D+11 500 MB ANOMALIES FROM 00Z ECMM
CPC MAP MADE SEP 08 2015 0957 UTC CNTD SEP 19 2015

Week 2 – Temperature and Precipitation

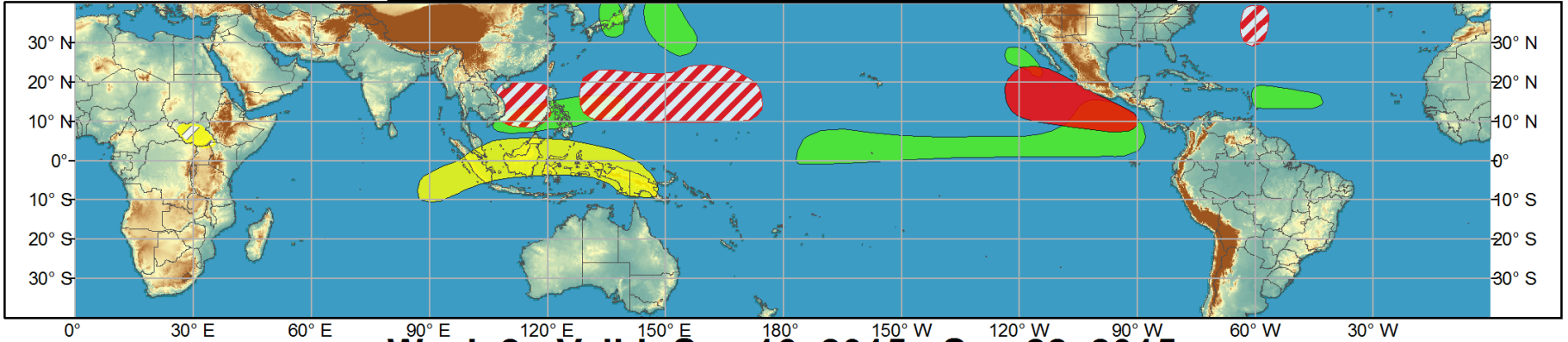




Global Tropics Hazards and Benefits Outlook - Climate Prediction Center



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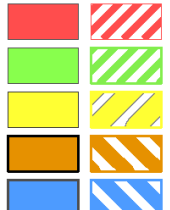


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