

Global Tropics Hazards And Benefits Outlook

9/3/2019

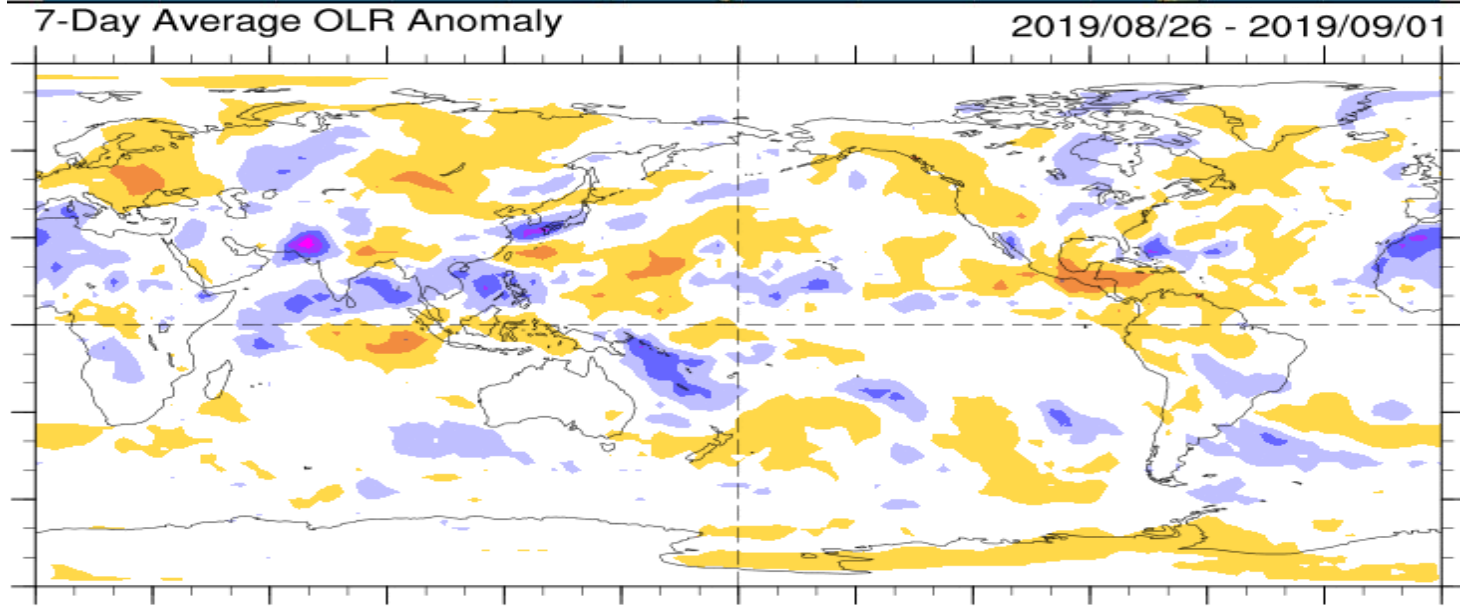
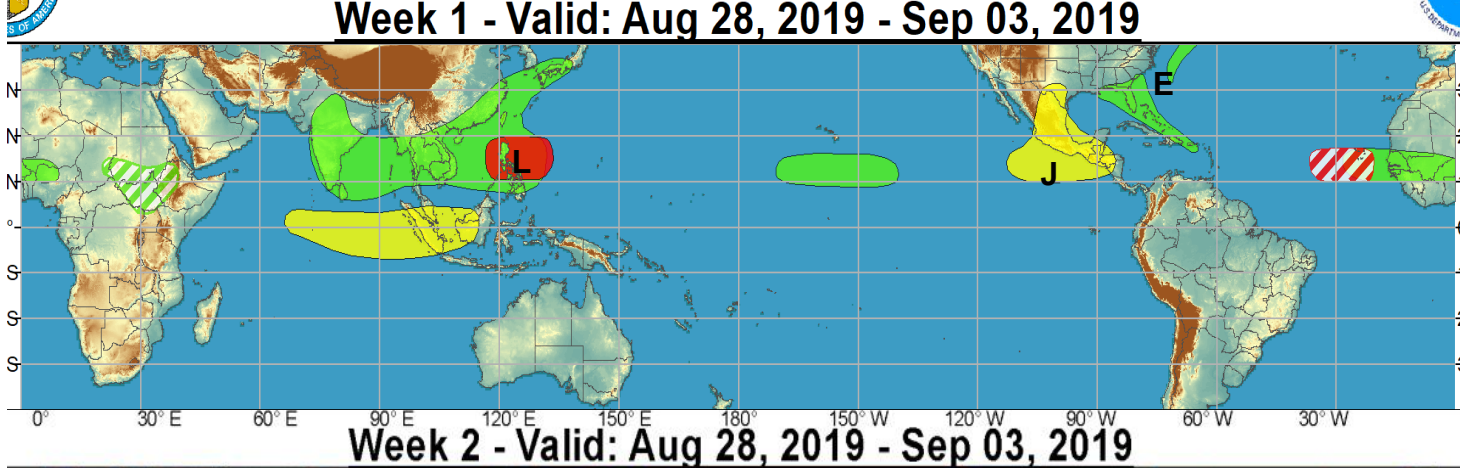
Christina Maurin

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

TS Erin 8/28
H Juliette 9/1
TYP Lingling 9/1



Cool shading
More clouds/rain

Warm shading
Less clouds/rain

Synopsis of Climate Modes

ENSO: (as of September 3rd, 2019– next update on Thursday, September 12th)

- ENSO Alert System Status: [Final El Niño Advisory](#)
- ENSO-neutral conditions are present, and is most likely to continue through Northern Hemisphere Winter 2019-2020 (50-55% chance).

MJO and other subseasonal tropical variability:

- The MJO remains weak and incoherent. Any signal seen is over the Maritime Continent.
- Dynamical models are not in good agreement over the forecast for MJO, indicating low confidence. There could be some eastward propagation, bringing the suppressed envelope over the Maritime Continent in week-2.

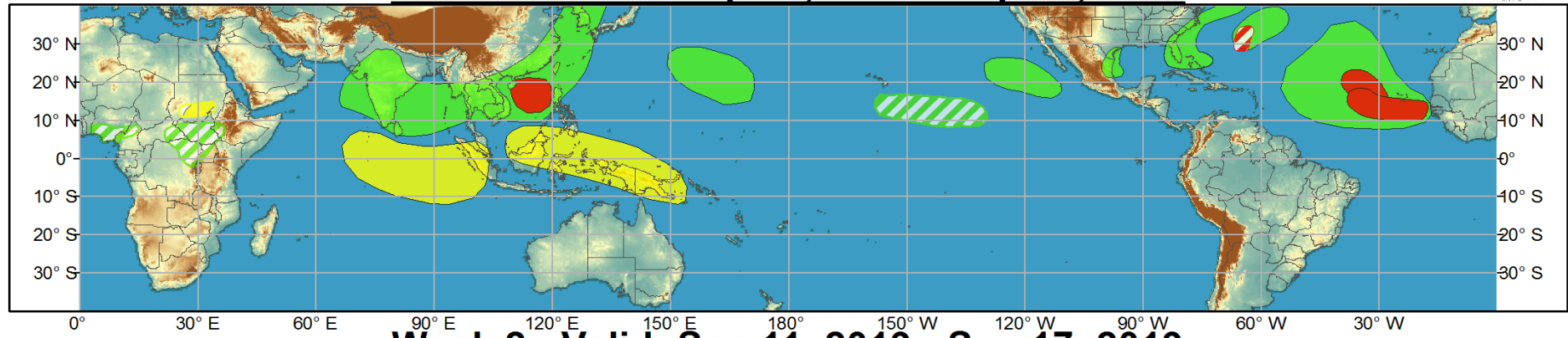
Tropical cyclone development:

- The Atlantic saw an uptick of activity over the past few days, with several systems currently of interest for tropical development. Low wind shear is likely to keep the tropical Atlantic active through the next two weeks.
- Conditions for cyclogenesis in the eastern Pacific look more conducive in week-2.

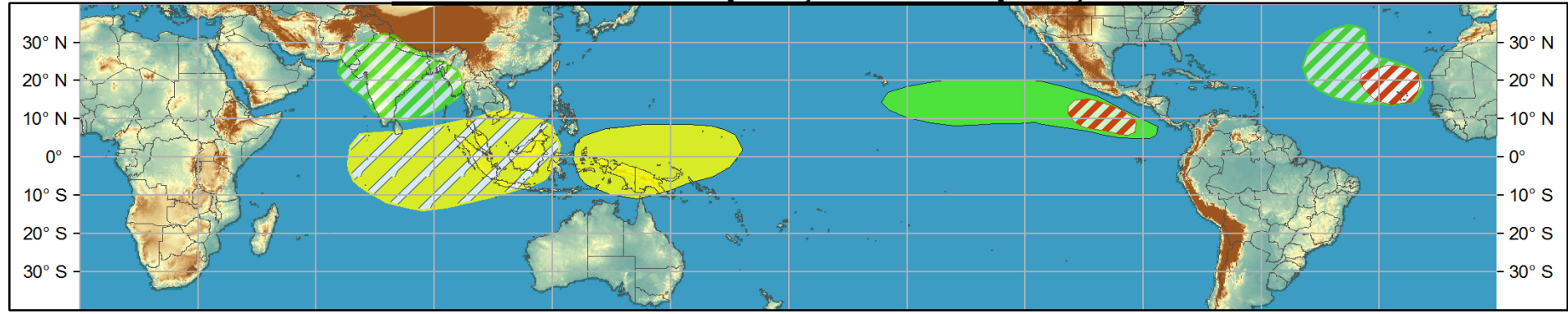


Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

Week 1 - Valid: Sep 04, 2019 - Sep 10, 2019



Week 2 - Valid: Sep 11, 2019 - Sep 17, 2019



Produced: 09/03/2019
Forecaster: Maurin

Confidence		
High	Moderate	
		Tropical Cyclone Formation Development of a tropical cyclone (tropical depression - TD, or greater strength).
		Above-average rainfall Weekly total rainfall in the upper third of the historical range.
		Below-average rainfall Weekly total rainfall in the lower third of the historical range.
		Above-normal temperatures 7-day mean temperatures in the upper third of the historical range.
		Below-normal temperatures 7-day mean temperatures in the lower third of the historical range.

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

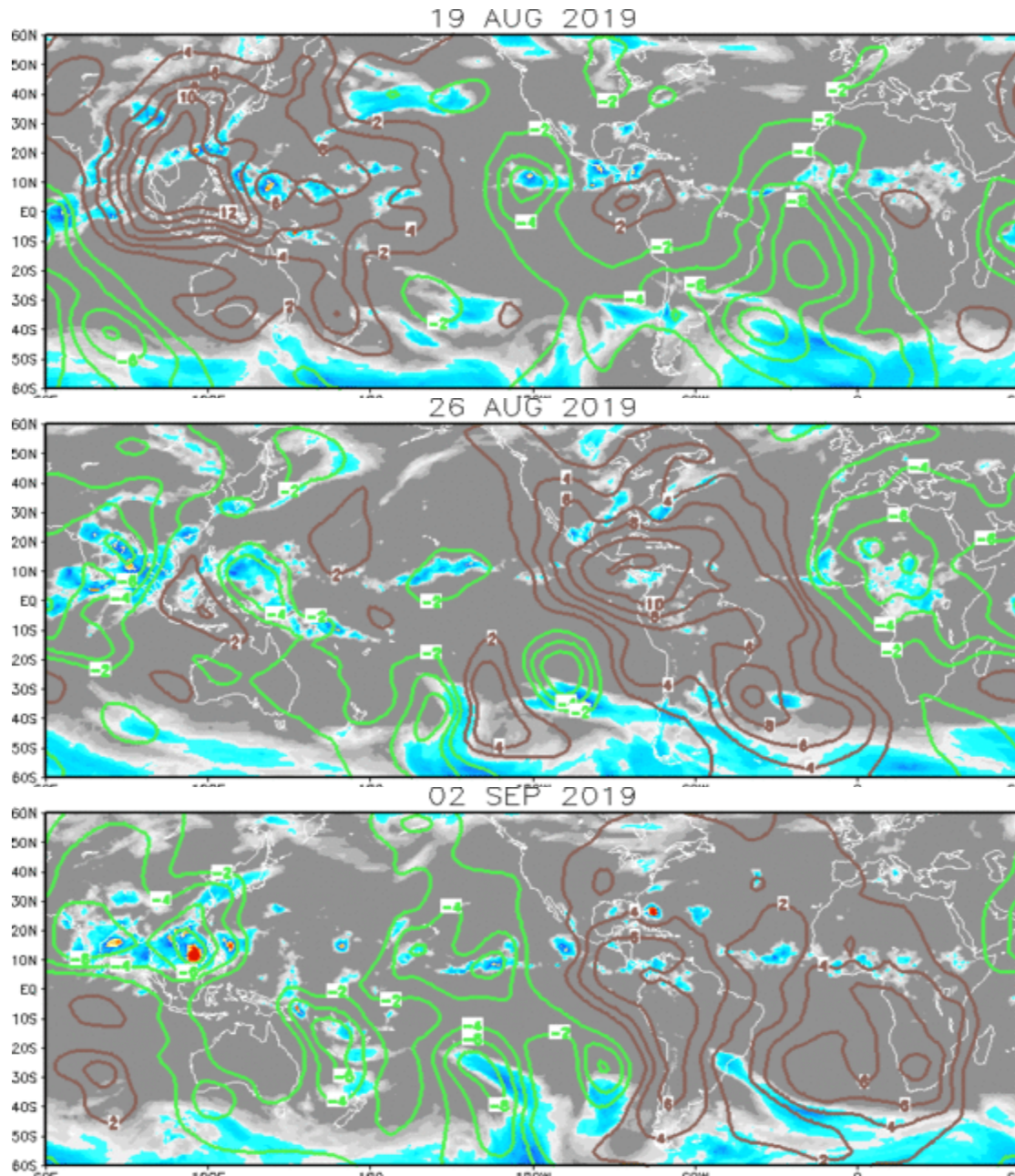
Green: Enhanced Divergence

Brown: Enhanced Convergence

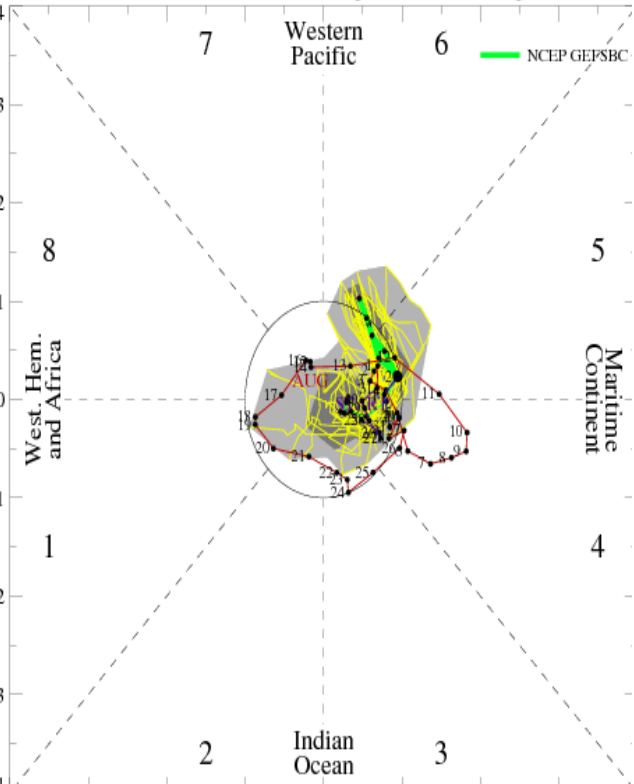
Incoherent pattern with more regional anomalies.

More Wave-1 pattern developed but fast eastward propagation (Kelvin wave).

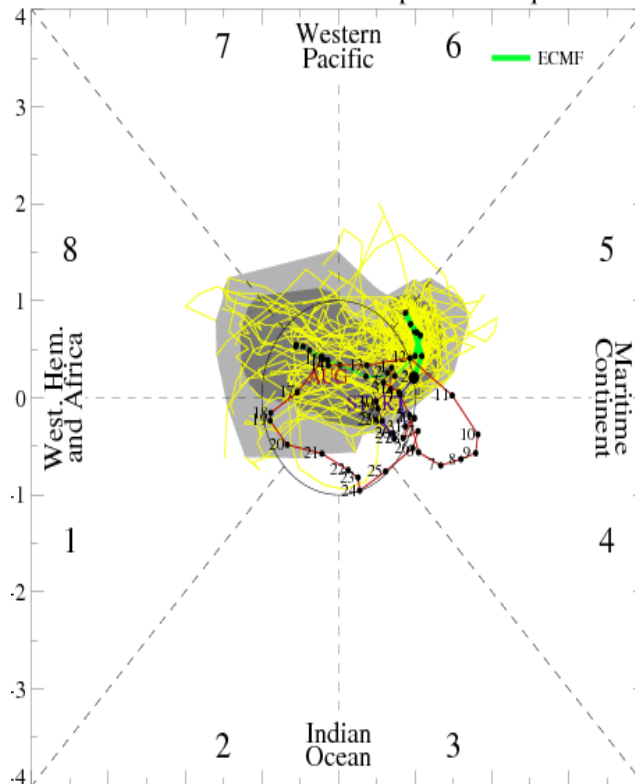
Upper-level convergence has shifted eastward toward Africa, with enhanced divergence becoming more established over the Maritime Continent.



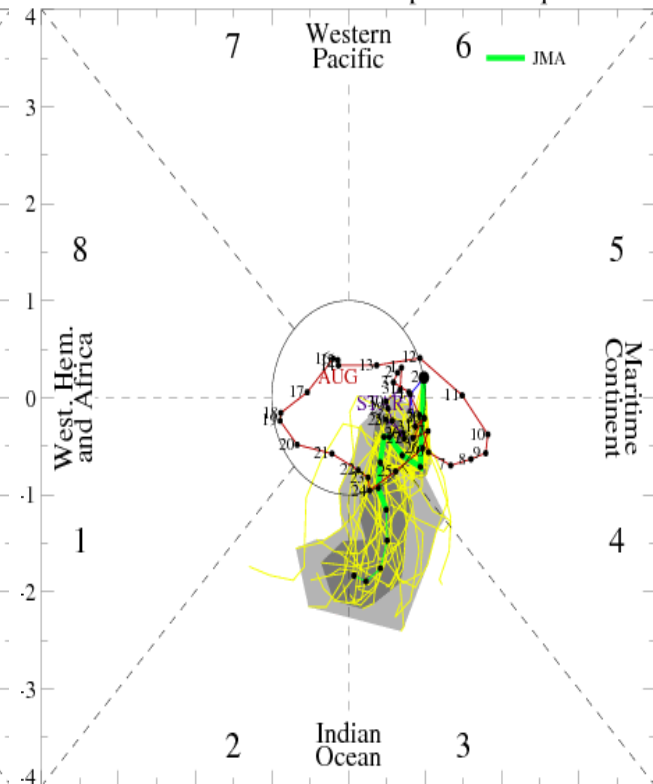
[RMM1, RMM2] forecast for Sep-03-2019 to Sep-17-2019



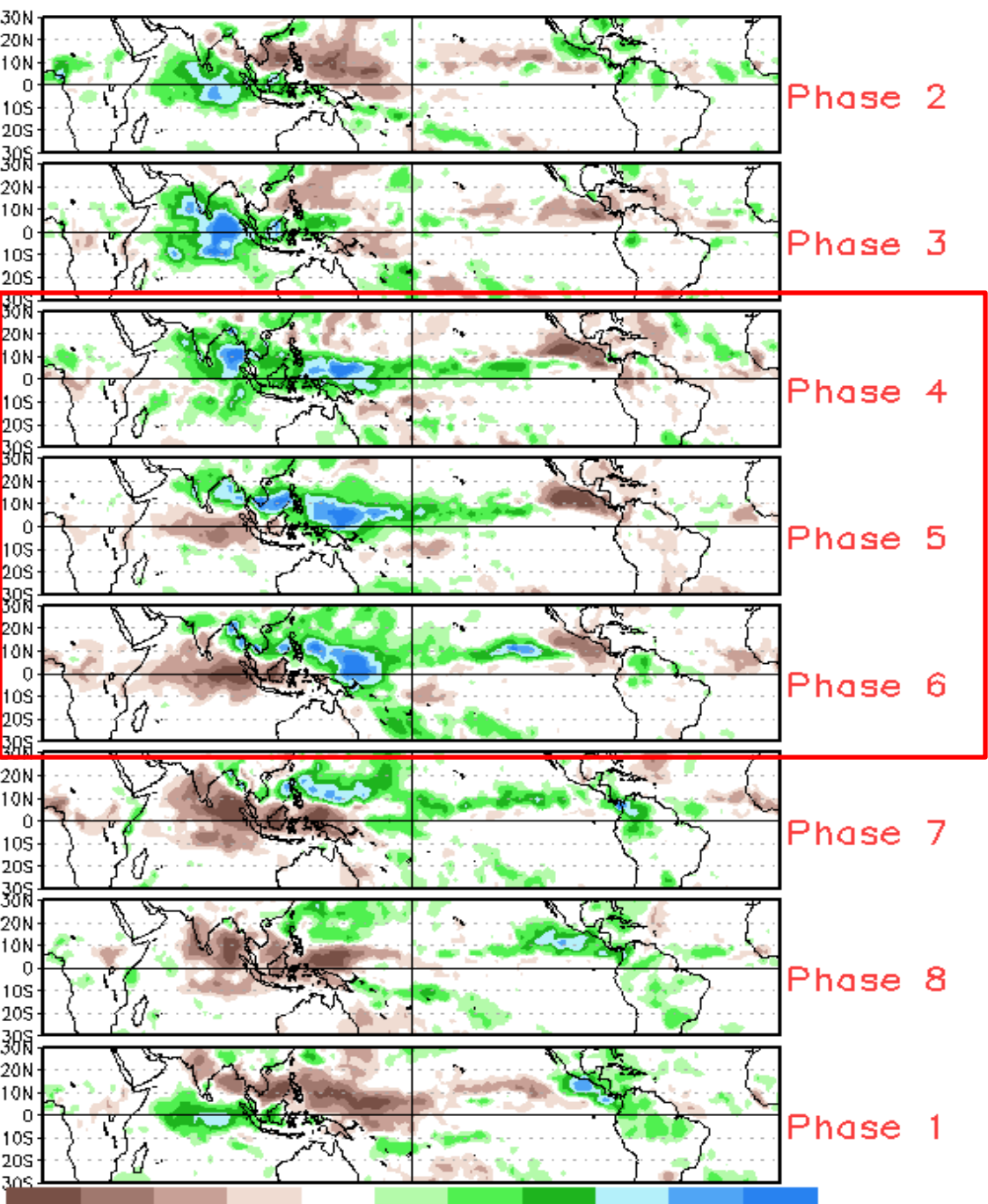
MJO Index Forecast for 03Sep2019-17Sep2019



MJO Index Forecast for 03Sep2019-11Sep2019



- GFS and ECMWF indicate a continued weak MJO, with some evidence of limited eastward propagation toward the western Pacific. Spread among the members, particularly the ECMWF, remains large.





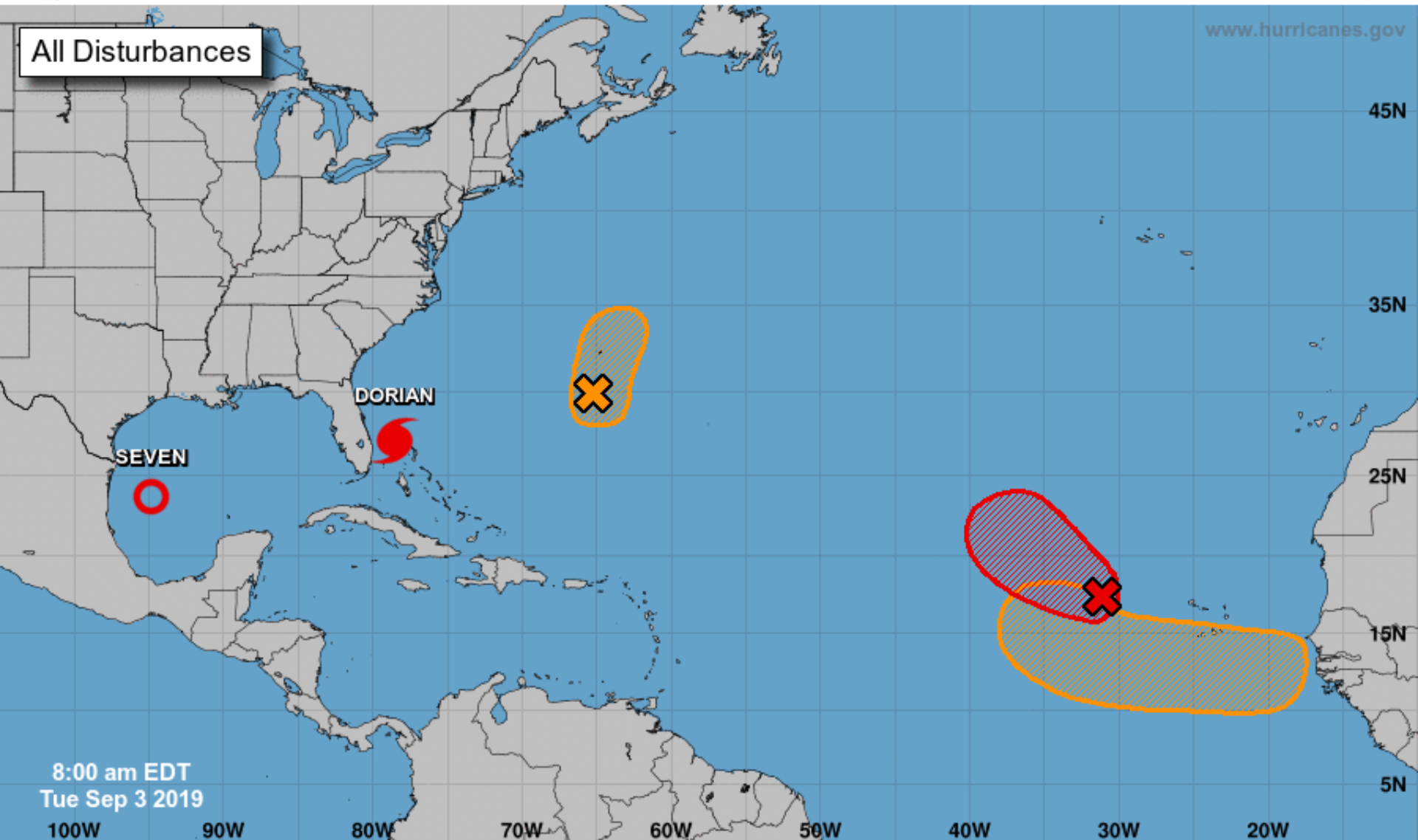
Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



www.hurricanes.gov

All Disturbances



8:00 am EDT
Tue Sep 3 2019

100W 90W 80W 70W 60W 50W 40W 30W 20W

Current Disturbances and Five-Day Cyclone Formation Chance: < 40% 40-60% > 60%

Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane

Post-Tropical Cyclone or Remnants



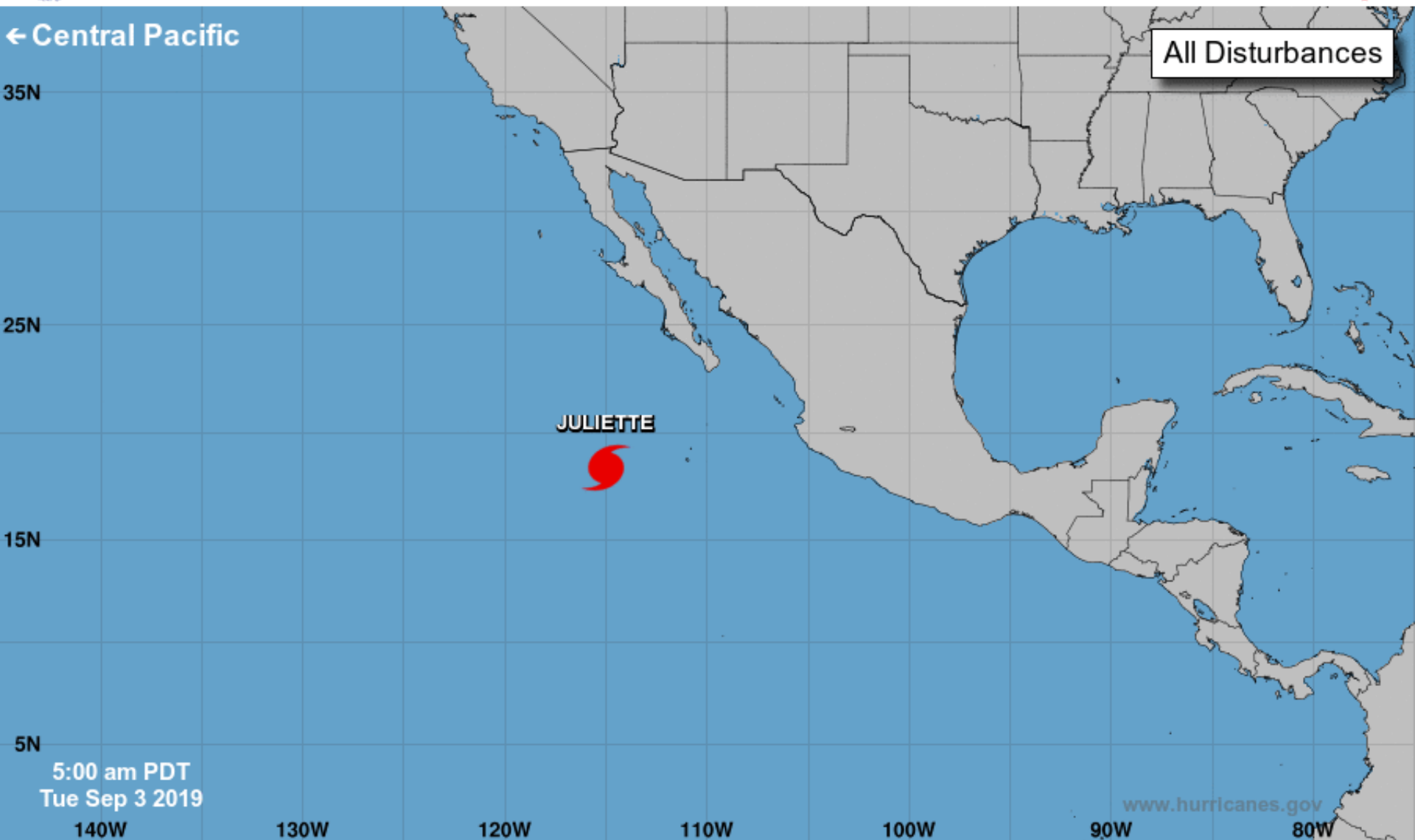
Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



← Central Pacific

All Disturbances



5:00 am PDT
Tue Sep 3 2019

www.hurricanes.gov

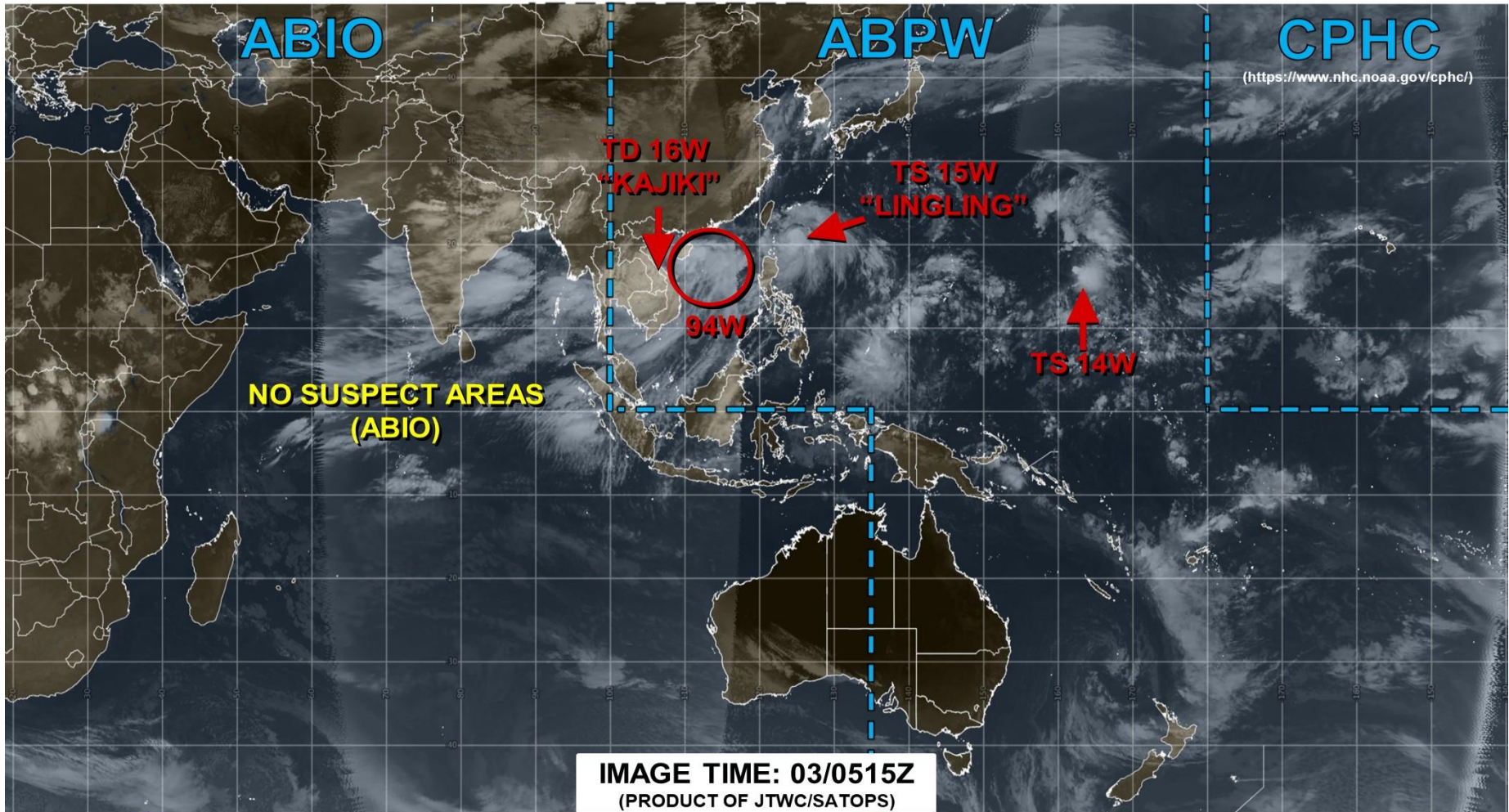
Current Disturbances and Five-Day Cyclone Formation Chance: < 40% 40-60% > 60%

Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane

Post-Tropical Cyclone or Remnants



JOINT TYPHOON WARNING CENTER



TC formation unlikely within 24 hours



TC development likely, but expected to occur beyond 24 hours

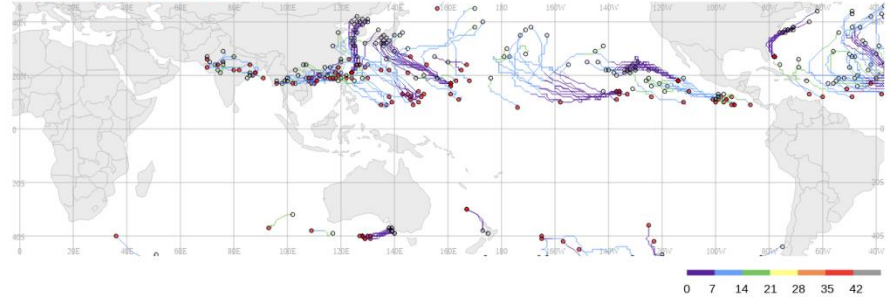


TC development likely within 24 hours (Reference TCFA)



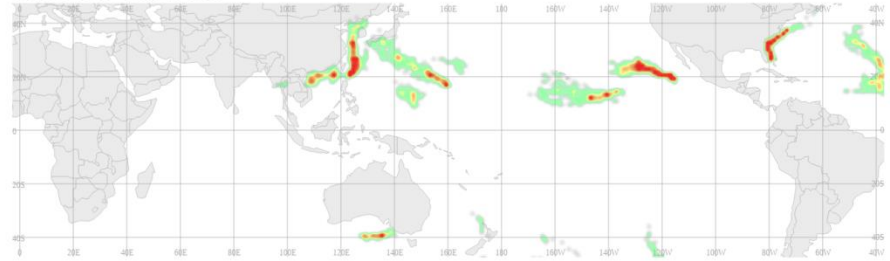
Tropical Cyclone (Reference Warning)

09/03 06z - 09/19 06z



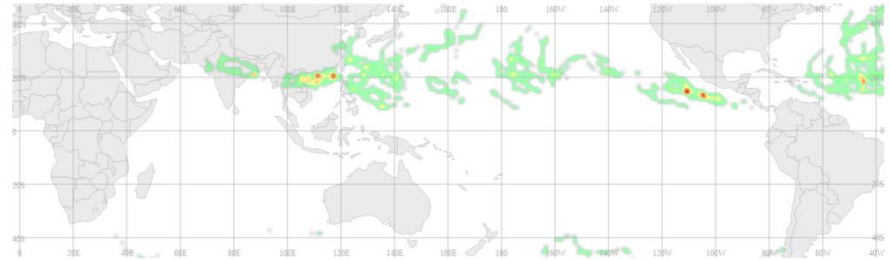
Days 0-7

09/03 06z - 09/10 06z



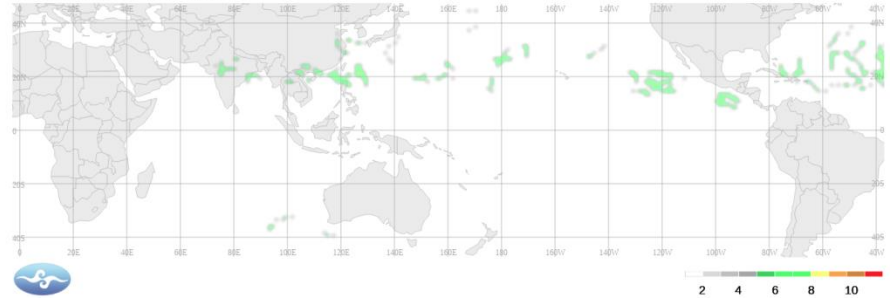
Days 7-14

09/10 06z - 09/17 06z

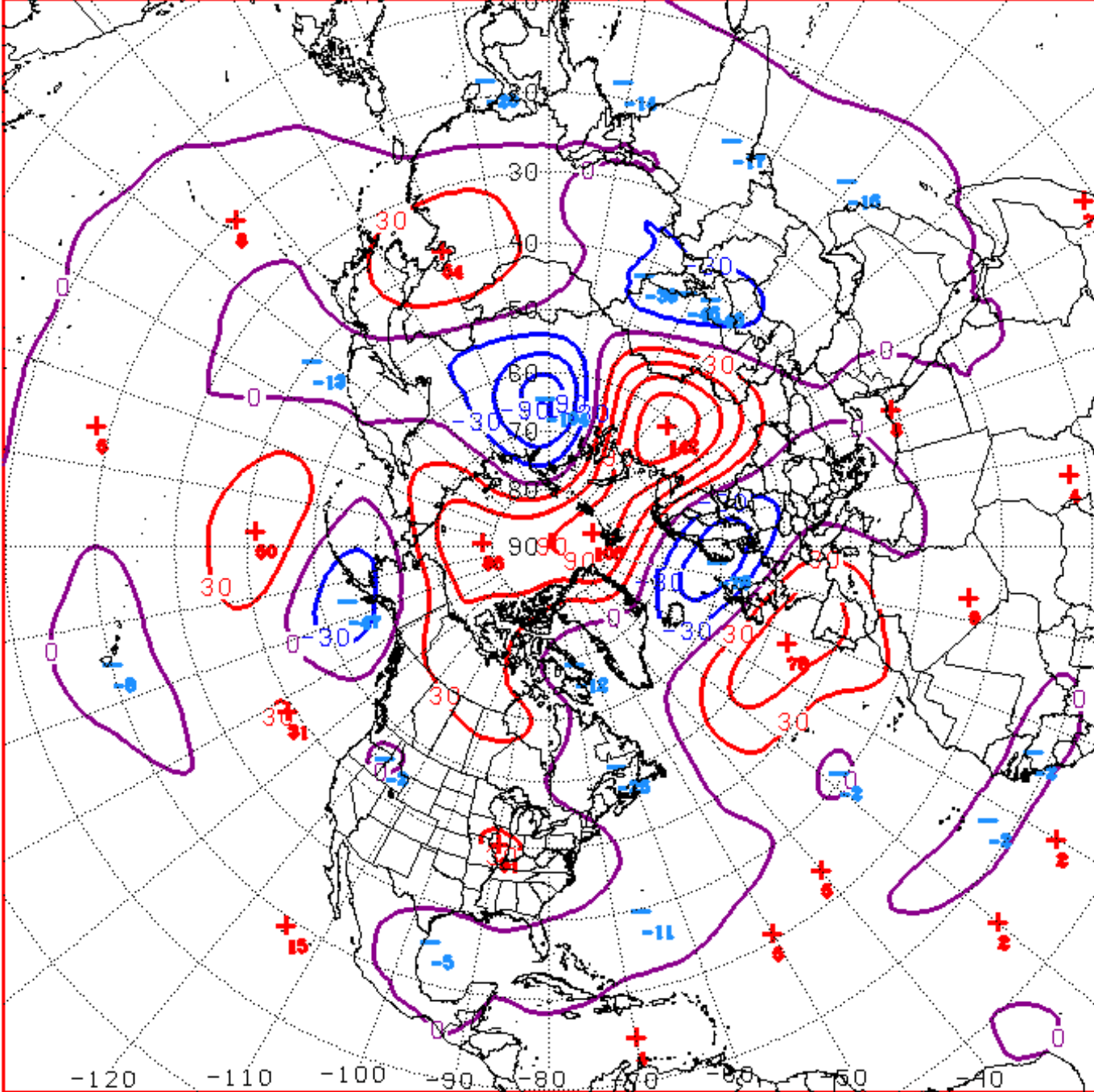


Days 14-16

09/17 06z - 09/19 06z

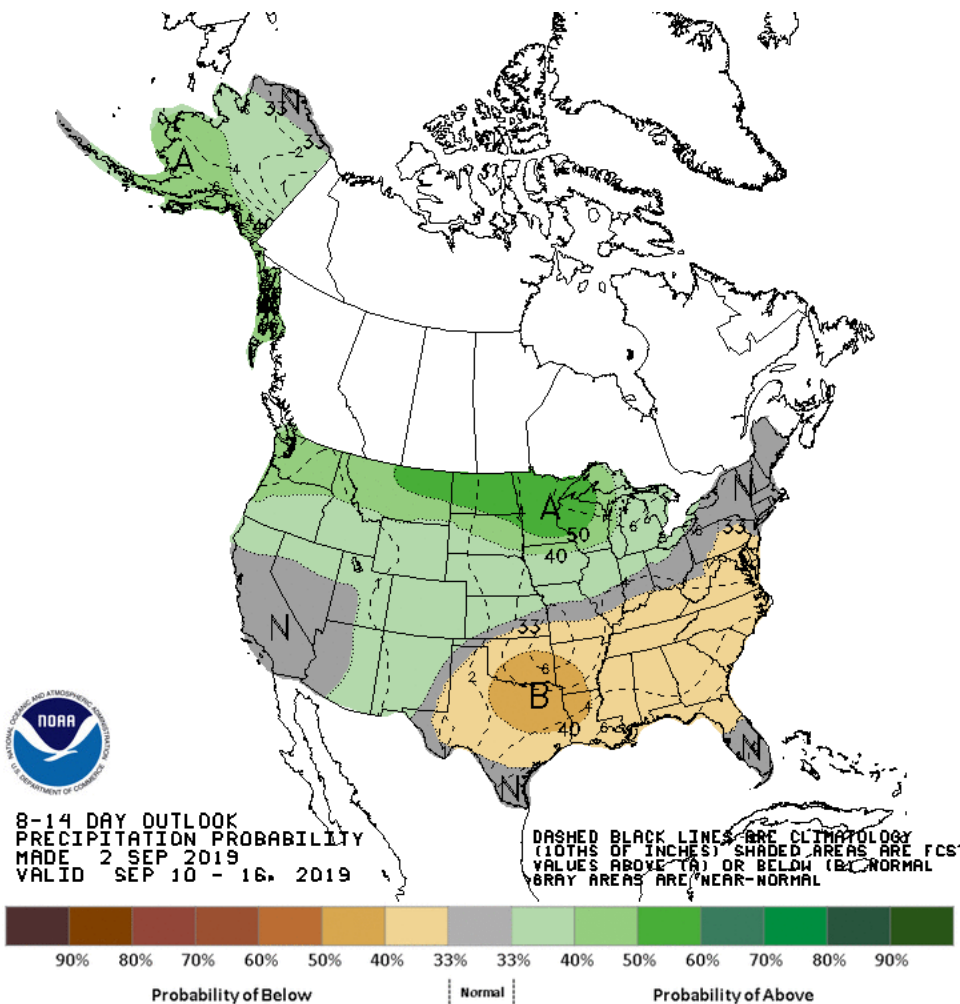
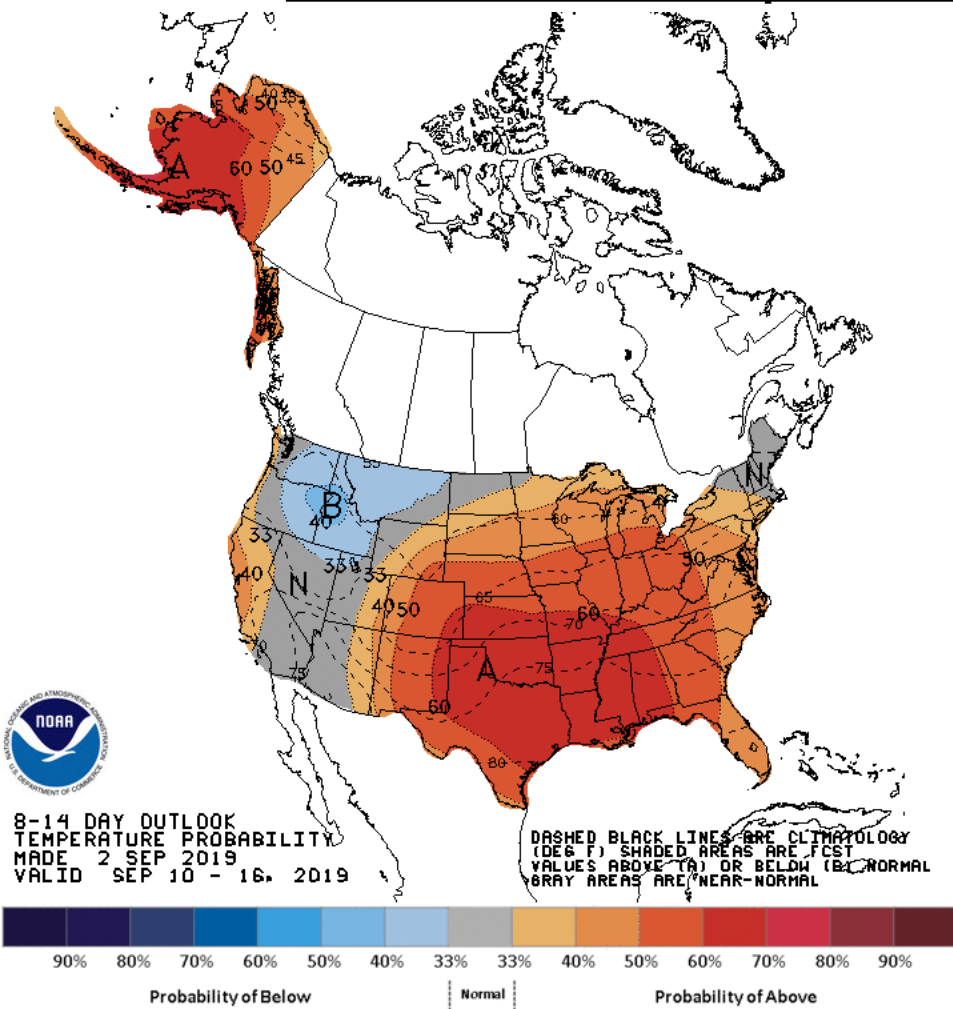


Connections to U.S. Impacts



D+11 500 MB ANOMALIES FROM ALZ ENSM
 CPC MAP MADE SEP 03 2019 1312 UTC CNTD SEP 14 2019

Week 2 – Temperature and Precipitation

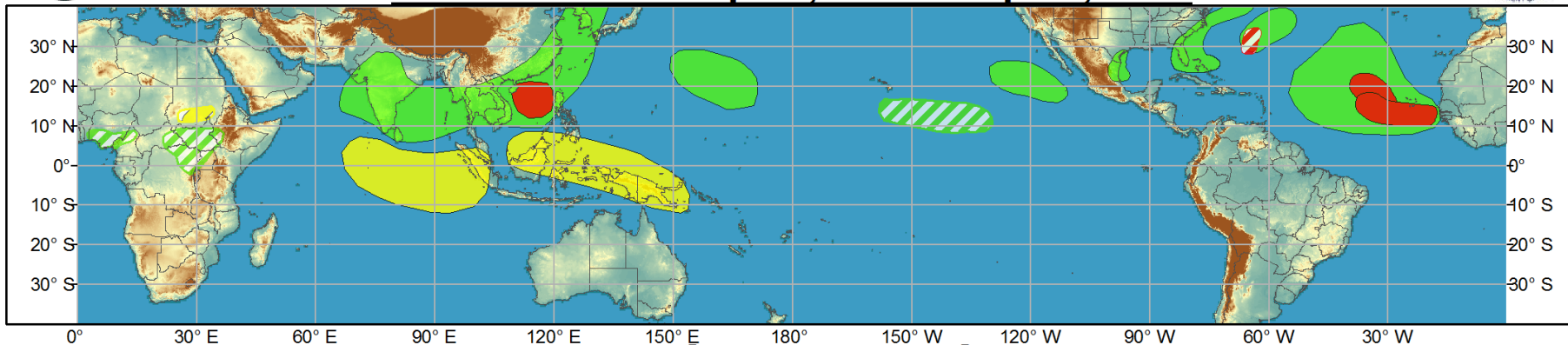




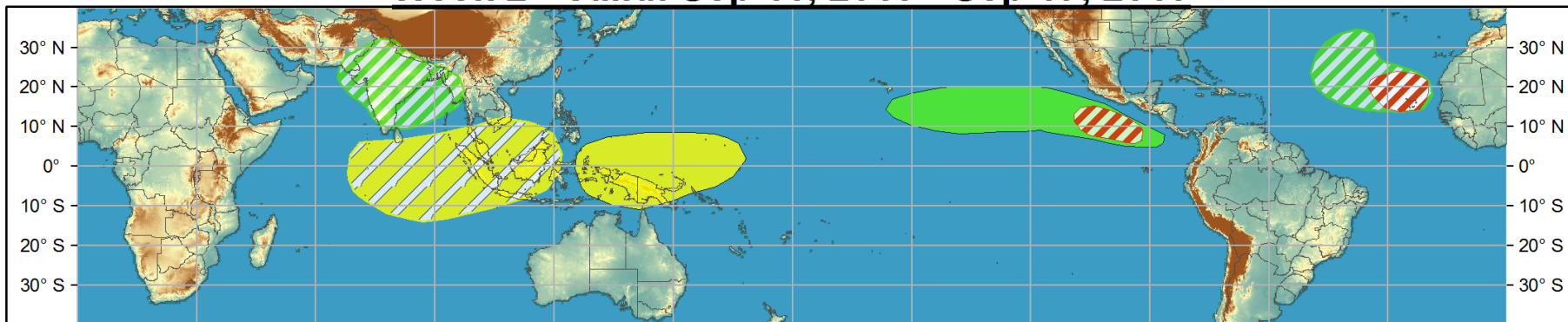
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center



Week 1 - Valid: Sep 04, 2019 - Sep 10, 2019



Week 2 - Valid: Sep 11, 2019 - Sep 17, 2019



Confidence
High Moderate

- Tropical Cyclone Formation** Development of a tropical cyclone (tropical depression - TD, or greater strength).
- Above-average rainfall** Weekly total rainfall in the upper third of the historical range.
- Below-average rainfall** Weekly total rainfall in the lower third of the historical range.
- Above-normal temperatures** 7-day mean temperatures in the upper third of the historical range.
- Below-normal temperatures** 7-day mean temperatures in the lower third of the historical range.

Produced: 09/03/2019

Forecaster: Maurin

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.

