Global Tropics Hazards And Benefits Outlook

7/06/2021

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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

X = Elsa development

Cool shading
More clouds/rain

Warm shading
Less clouds/rain
Synopsis of Climate Modes

ENSO: (10 June, 2021 Update)  
next update on 8th of July

• ENSO Alert System Status: Not Active

• ENSO-neutral conditions are favored through the Northern Hemisphere summer (78% chance for the June-August season) and fall (50% chance for the September-November season).

MJO and other subseasonal tropical variability:

• The MJO became more coherent with anomalous upper-level divergence (convergence) over the Eastern (Western) Hemisphere.

• Forecast uncertainty is large on the longevity of this MJO signal during the next two weeks.

• Chances for tropical cyclone development across the Atlantic basin are expected be limit by anomalous upper-level convergence and strong vertical wind shear.
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

Week 1 - Valid: Jul 07, 2021 - Jul 13, 2021

Week 2 - Valid: Jul 14, 2021 - Jul 20, 2021

Produced: 07/06/2021
Forecaster: Pugh

Tropical Cyclone Formation
- High: Development of a tropical cyclone (tropical depression - TD, or greater strength).
- Moderate: 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.
Some eastward progression of the signal originally over Southeast Asia. Most pronounced though is the decay of equatorial signals, outside of the persistent West Africa center.

A wave-2 pattern continues, with the growth of the West Africa signal and a Kelvin wave present over the Pacific.

By the beginning of July, a wave-1 pattern emerged which is more consistent with a MJO.
GEFS maintains eastward propagation to the Maritime Continent although the speed is on the fast side of a MJO

ECMWF ensemble members are not quite as bullish
Average Conditions when the MJO is present

CAVEAT: These panels are representative of robust MJO events.
No new tropical cyclones are expected during the next five days.
Tropical Storm Elsa
Tuesday July 06, 2021
11 AM EDT Advisory 25
NWS National Hurricane Center

Current information: x
Center location 24.9 N 82.8 W
Maximum sustained wind 60 mph
Movement NNW at 10 mph

Forecast positions:
• Tropical Cyclone  ○ Post/Potential TC
Sustained winds:
D < 39 mph
S 39-73 mph  H 74-110 mph  M > 110 mph

Potential track area:

Warnings:
Connections to U.S. Impacts
Week 2 – Temperature and Precipitation

Periods of enhanced North American Monsoon during mid-July
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Confidence

High Moderate

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