Global Tropics Hazards And Benefits Outlook

6/28/2022

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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

No TC formation in the last week

Cool shading
More clouds/rain

Warm shading
Less clouds/rain
Synopsis of Climate Modes

ENSO: (Jun 9, 2022 Update)  next update on Thursday, July 14th

• ENSO Alert System Status: La Niña Advisory

• Though La Niña is favored to continue, the odds for La Niña decrease into the Northern Hemisphere late summer (52% chance in JAS 2022) before slightly increasing through the Northern Hemisphere fall and early winter 2022 (58-59% chance)

MJO and other subseasonal tropical variability:

• The MJO remains weak due to a stationary pattern.

• The GFS and ECMWF models are favoring eastward propagation resuming with a strengthening MJO over the Indian Ocean and Maritime Continent during the next two weeks.

• Tropics are currently quite active with respect to TCs. Celia remains active and there are areas of potential TC development in the West Pacific, East Pacific, and tropical Atlantic.
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

Week 1 - Valid: Jun 29, 2022 - Jul 05, 2022

Week 2 - Valid: Jul 06, 2022 - Jul 12, 2022

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: 06/28/2022
Forecaster: Barandiaran

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.
During mid-June, an nearly stationary wave-1 pattern became established.

Convective envelope over Africa and southern Indian Ocean strengthened mid-period.

Area of enhanced convection expanded both eastward and westward, while center suppressed convection shrank and moved slightly retrograde.
Outgoing Longwave Radiation (OLR) Anomalies

- Suppressed convection to the west and along the Date Line consistent with ongoing La Nina conditions continues, intensifying and spreading westward across the Maritime Continent during the month of June.

- Objective filtering OLR forecasts focused north of the equator are favoring the emergence of Rossby wave activity on either side of the Date Line in the coming weeks.
Stationary pattern appears to be coming to an end as the RMM index has begun moving coherently, and ensemble forecasts for GEFS, ECMWF, and JMA all favor continued eastward propagation of the convective envelope.
Average Conditions when the MJO is present

CAVEAT: These panels are representative of robust MJO events.
July Tropical Storm Formation by MJO phase

Phase 1 (144 days) 37 storms
Phase 2 (74 days) 20 storms
Phase 3 (45 days) 17 storms
Phase 4 (40 days) 14 storms
Phase 5 (63 days) 11 storms
Phase 6 (60 days) 23 storms
Phase 7 (87 days) 21 storms
Phase 8 (61 days) 24 storms
Null (400 days) 130 storms
U.S. Impacts
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