Global Tropics Hazards And Benefits Outlook
August 6, 2013

Brad Pugh

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

Cool shading
More clouds/rain

Warm shading
Less clouds/rain
Synopsis of Climate Modes

**ENSO:**
- ENSO-neutral conditions are favored to continue through Northern Hemisphere fall 2013

**MJO and other subseasonal tropical variability:**
- The MJO remained weak for the second consecutive week. Other modes of variability are evident in the observations, and play a role in the current outlook.
- Most dynamical and statistical model MJO index forecasts indicate little to no amplitude in the MJO during the next 2 weeks.
- Enhanced tropical cyclone formation probabilities are forecast to continue over the western and eastern Pacific for the upcoming two weeks. Late in week-2, TC formation may become more favorable across the main development region (MDR) of the tropical Atlantic.

**Extratropics:**
- The MJO is not likely to have a major impact on the circulation over the CONUS.
IR Temperatures
0900 UTC 03 AUG 2013
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center


Preliminary

Confidence
High         Moderate

Tropical Cyclone Formation
Development of a tropical cyclone that eventually reaches tropical storm/cyclone 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: 08/06/2013
Forecaster: Pugh

Product is updated once per week. 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
The breakdown of the MJO signal is apparent on the CPC MJO index during late July.
MJO Observation/Forecast

MJO Index Forecast for 05Aug2013-19Aug2013

GFS

ECMWF
MJO not likely to have any major effects during the next two weeks.

Atmospheric Kelvin wave to affect east Pacific (green line).
GFS Forecast

Anomalies (mm/day)

6Aug2013–12Aug2013

Anomalies (mm/day)

Tropical Cyclone Activity is Not Expected During the Next 48 Hours
Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.

Tropical Storm Gil
Monday August 5, 2013
11 PM HST Advisory 28
NWS Central Pacific Hurricane Center

Current Information:
Center Location 13.3 N 141.0 W
Max Sustained Wind 40 mph
Movement W at 9 mph

Forecast Positions:
● Tropical Cyclone
○ Post-Tropical
Susted Winds:
D < 39 mph
S 39-73 mph
H 74-110 mph
M > 110 mph

Potential Track Area:

Watches:

Day 1-3 Day 4-5

Tips
Hurricane
Trop.Storm

Warnings:

Hurricane
Trop.Storm
Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.

Hurricane Henriette
Tuesday August 6, 2013
2 AM PDT Advisory 12
NWS National Hurricane Center

Current Information: ○
Center Location 13.8 N 130.9 W
Max Sustained Wind 75 mph
Movement WNW at 10 mph

Forecast Positions:
● Tropical Cyclone ○ Post-Tropical
Sustained Winds:
D < 39 mph
S 39-73 mph
H 74-110 mph
M > 110 mph

Potential Track Area:

Day 1-3  Day 4-5

Watches:

Pink Hurricane  Yellow Trop.Storm

Warnings:

Red Hurricane  Blue Trop.Storm
TROPICAL STORM 10W (HANGKLOT) WARNING #4
WTPH31 PGTW 061500
061200Z POSIT: NEAR 15.9N 110.1E
MOVING 320 DEGREES TRUE AT 17 KNOTS
MAXIMUM SIGNIFICANT WAVE HEIGHT: 14 FEET
06/12Z, WINDS 035 KTS, GUSTS TO 045 KTS
07/00Z, WINDS 040 KTS, GUSTS TO 050 KTS
07/12Z, WINDS 040 KTS, GUSTS TO 050 KTS
08/00Z, WINDS 030 KTS, GUSTS TO 040 KTS
08/12Z, WINDS 020 KTS, GUSTS TO 030 KTS

CPA TO:

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BEARING AND DISTANCE

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○ LESS THAN 34 KNOTS
□ 34-63 KNOTS
¥ MORE THAN 63 KNOTS
PAST 6 HOURLY CYCLONE POSITS IN BLACK
FORECAST CYCLONE POSITS IN COLOR
August Tropical Storm Formation by MJO phase
Week 2 – Temperature and Precipitation