Global Tropics Hazards And Benefits Outlook
August 18, 2015

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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
Tropical Cyclone Verifications

Week 1 - Valid: Aug 12, 2015 - Aug 18, 2015

Week 2 - Valid: Aug 12, 2015 - Aug 18, 2015
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 is incoherent and not anticipated to play a role in the global tropical convective pattern.
• Dynamical model MJO Index forecasts are very noisy, with ensemble members falling into almost every Phase during the next two weeks. This is reflective of the lack of a coherent subseasonal signal.
• El Niño and tropical cyclone activity are anticipated to be the primary drivers of tropical convective patterns during the next two weeks.

Extratropics:
• While the MJO is not anticipated to be a factor in the evolution of the mid-latitude pattern, El Niño and recurving West Pacific tropical cyclones may play a role.
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

**Week 1 - Valid: Aug 19, 2015 - Aug 25, 2015**

**Week 2 - Valid: Aug 26, 2015 - Sep 01, 2015**

<table>
<thead>
<tr>
<th>Confidence</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>High</td>
<td>Development of a tropical cyclone (tropical depression - TD, or greater strength).</td>
</tr>
<tr>
<td>Moderate</td>
<td>Weekly total rainfall in the upper third of the historical range.</td>
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<tr>
<td></td>
<td>Weekly total rainfall in the lower third of the historical range.</td>
</tr>
<tr>
<td>Above-normal</td>
<td>Weekly total rainfall in the upper third of the historical range.</td>
</tr>
<tr>
<td>Below-normal</td>
<td>7-day mean temperatures in the upper third of the historical range.</td>
</tr>
<tr>
<td></td>
<td>7-day mean temperatures in the lower third of the historical range.</td>
</tr>
</tbody>
</table>

Produced: 08/18/2015
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
Don’t worry, Phases 2 and 3, the non-bias corrected ECMWF has you covered too.

Toddler art, about the same level of helpfulness.
Low frequency likely to dominate pattern more than MJO.

MJO indicated by red lines

Rossby wave near 80E.

Tropical cyclone activity
Days 1-4

Day 5-8

Day 9-12

Day 13-15
Five-Day Graphical Tropical Weather Outlooks
National Hurricane Center Miami, Florida

Tropical Cyclone Formation Potential for the 5-Day Period Ending 8:00 am EDT Sun Aug 23 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.

No new tropical cyclones are expected during the next five days.
Tropical Cyclone Formation Potential for the 5-Day Period Ending 5:00 am PDT Sun Aug 23 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.
06Z18AUG2015–invest96l HWRF (0.2°)
Wind at 10m (knots) & MSLP (mb)
F=126 h Valid 12Z23AUG2015

Fine Mesh Grid (0.02°)
Centered on Storm

Min Pressure = 975.8hPa
Max 10m Wind = 78.9 knots

The winds shown here are guidance, and are NOT official NHC forecasts.
Connections to U.S. Impacts
ET Atsani approaching Aleutians
Week 2 – Temperature and Precipitation
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center


Week 2 - Valid: Aug 26, 2015 - Sep 01, 2015

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.

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