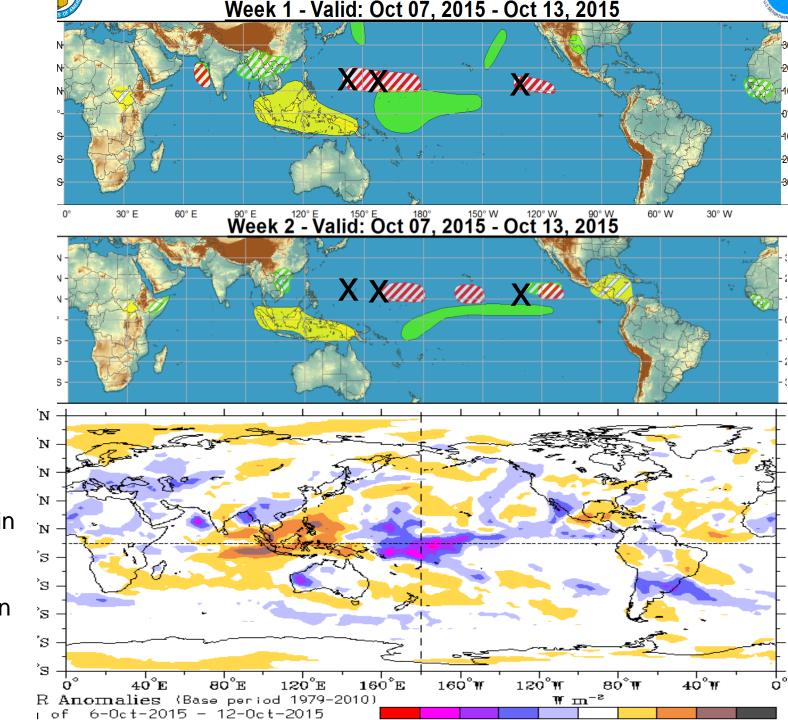
Global Tropics Hazards And Benefits Outlook October 13, 2015

Matthew Rosencrans

Outline

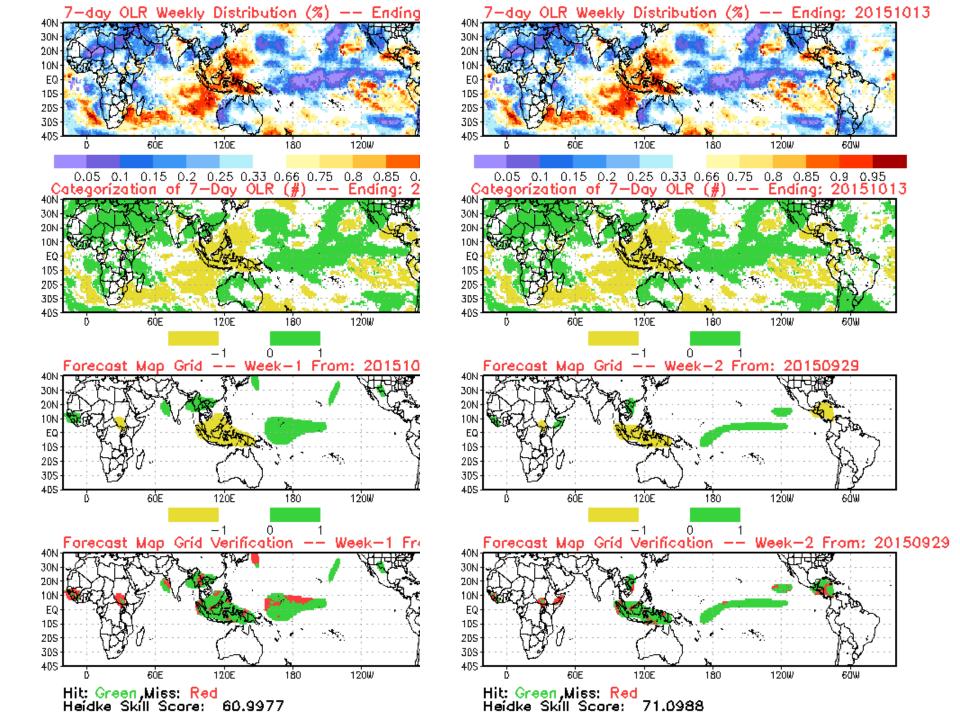
- 1. Review of Recent Conditions
- 2. Synopsis of Climate Modes
- 3. GTH Outlook and Forecast Discussion
- 4. Connections to U.S. Impacts

Outlook Review



Cool shading More clouds/rain

Warm shading Less clouds/rain



Synopsis of Climate Modes

ENSO:

- Current: El Niño Advisory
- Outlook: There is an approximately 95% chance that El Niño will continue through Northern Hemisphere winter 2015-16, gradually weakening through spring 2016.

MJO and other subseasonal tropical variability:

- The MJO is weak and not likely to impact tropical variability during the next week. During Week-2, there is a slight chance the MJO may strengthen.
- Most dynamical model MJO index forecasts depict little to no MJO signal during Week-1. During Week-2, some models indicate a strengthening signal anywhere from Africa to the Eastern Indian Ocean, although the root cause of that is still uncertain.

Extratropics:

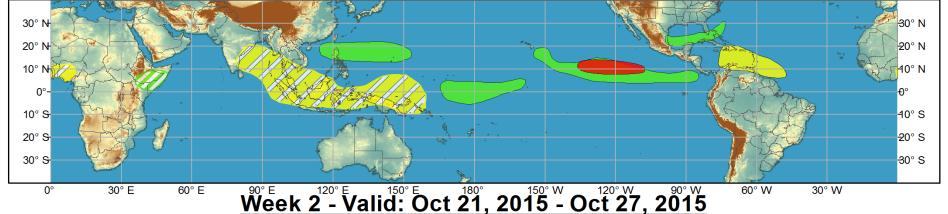
• The extended range temperature and precipitation forecasts for the U.S. are not likely to be impacted by the MJO, but more likely impacted by the ongoing El Nino and tropical cyclone activity.

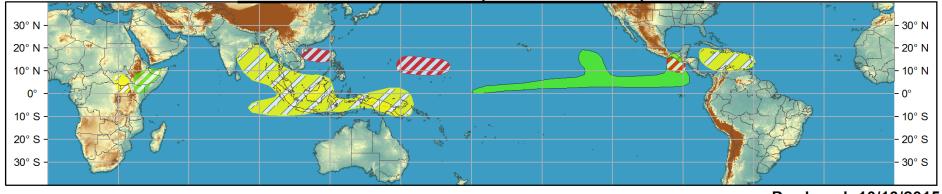


Global Tropics Hazards and Benefits Outlook - Climate Prediction Center









Confidence High Moderate Produced: 10/13/2015

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Tropical Cyclone Formation Development of a tropical cyclone (tropical depression - TD, or greater strength).

Weekly total rainfall in the lower third of the historical range.

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Below-average rainfall

Above-normal temperatures

Below-normal temperatures











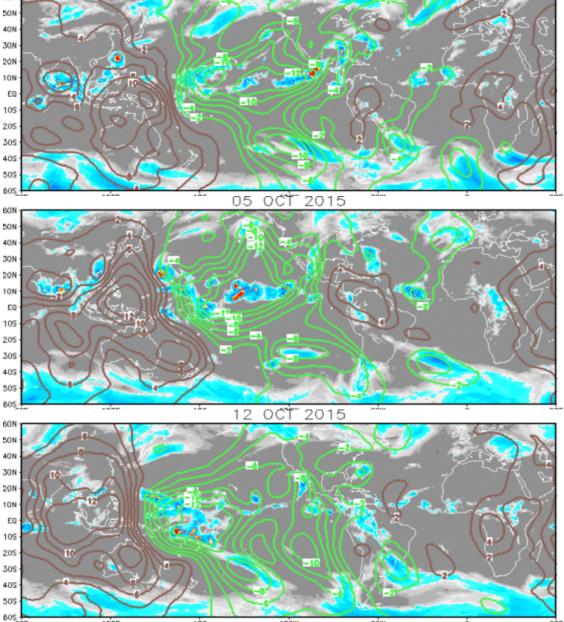


IR Satellite & 200-hpa Velocity Potential Anomalies

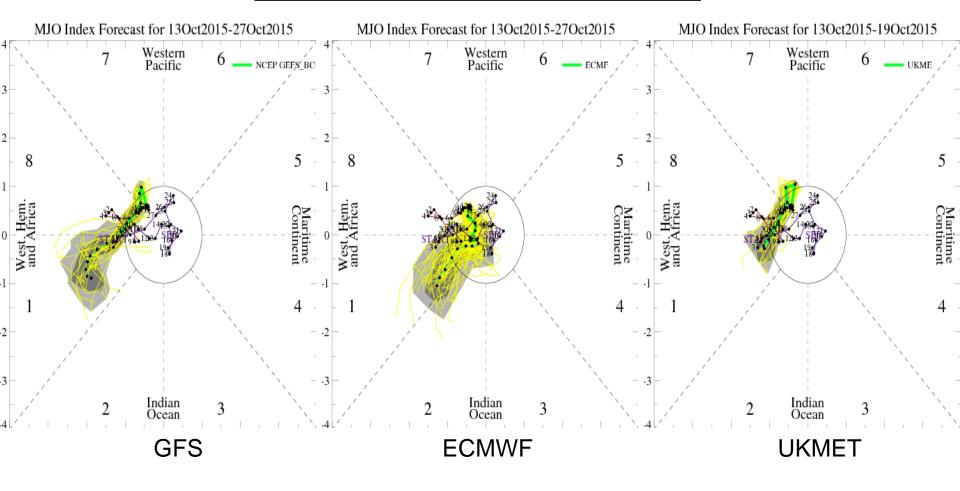
Green: Enhanced Divergence Brown: Enhanced Convergence

28 SEP 2015

20N Base state and some transient features evident. 05 OCT 2015 40N 30N 105 205

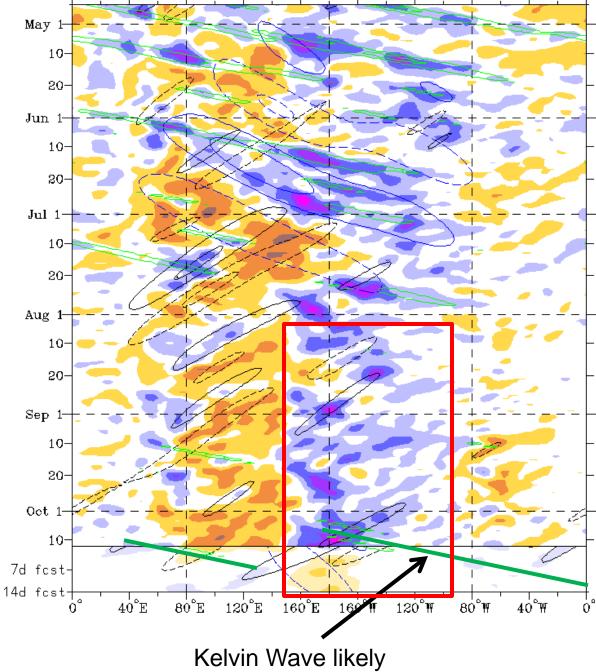


MJO Observation/Forecast



Wheeler-Hendon based analyses of model forecasts indicate little/no signal during Week-1, with a stronger signal over Africa during Week-2.

Low frequency likely to dominate pattern more than MJO.



Kelvin Wave likely impacting East Pacific.

CFS: Anom. PREC Week: 1: 14-Oct-2015 to 20-Oct-2015 (mm/week). 150 60 N _F 100 30 N 50 EQ Ю -50 308 -100-150 **6**0S 60E 120E 180 120W 60W CFS: Anom. PREC Week: 2: 21-Oct-2015 to 27-Oct-2015 (mm/week). 60 N r 150 100 30 N 50 EQ Ю -5030S -100**6**0S

180

60 E

120E

-150

0

60W

120W

DOWN THE TO COMMENT OF COMMENT

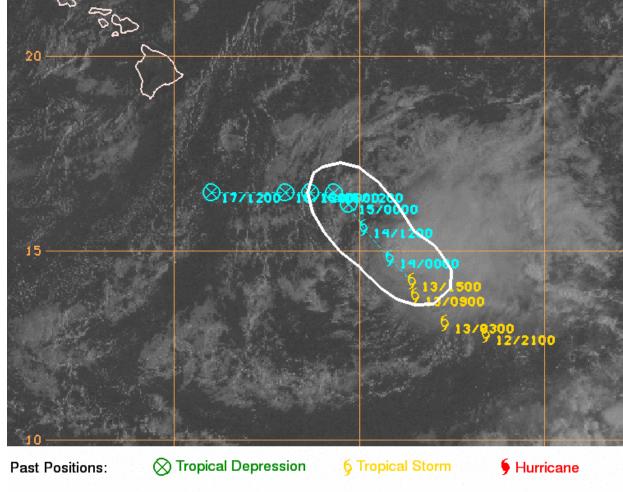
Forecast Track:

Tropical Storm Nora

Satellite Image with Forecast Track and 25%+ probability of sustained winds of 34 kt or higher

et probability of sustained winds of 34 kt or night Central Pacific Hurricane Center Honolulu, Hawaii



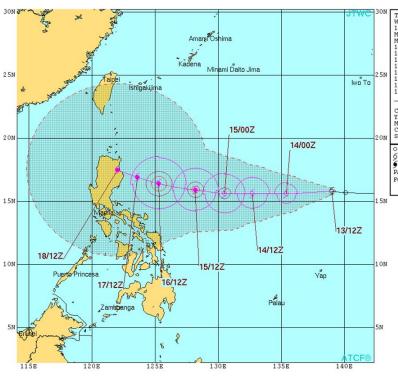


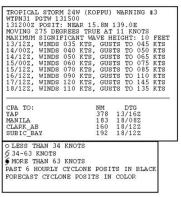
Track from Advisory #017 Issued at 1500 UTC TUE OCT 13 2015 Satellite Image taken at 1730 UTC 10/13/15

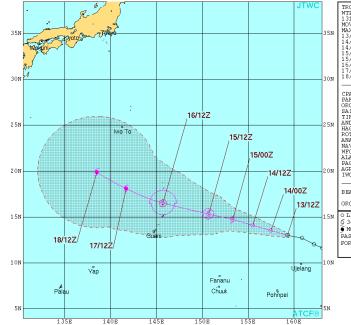
6 Tropical Storm

Murricane

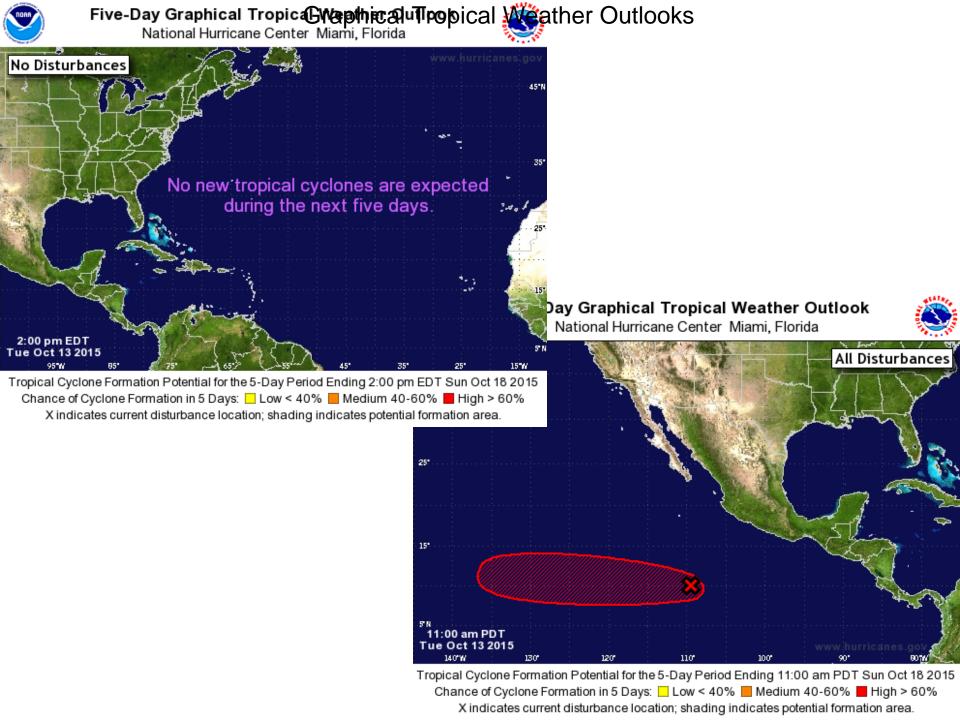
Tropical Depression

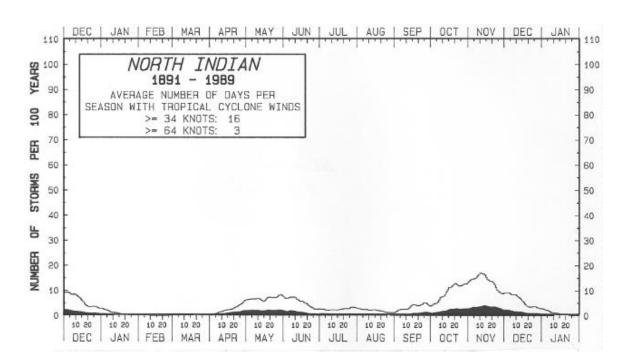


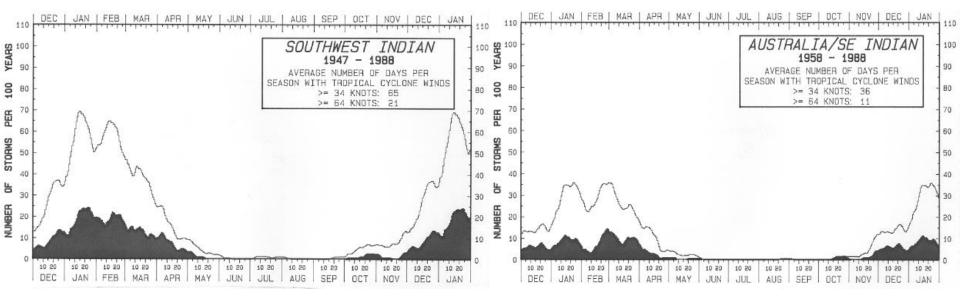


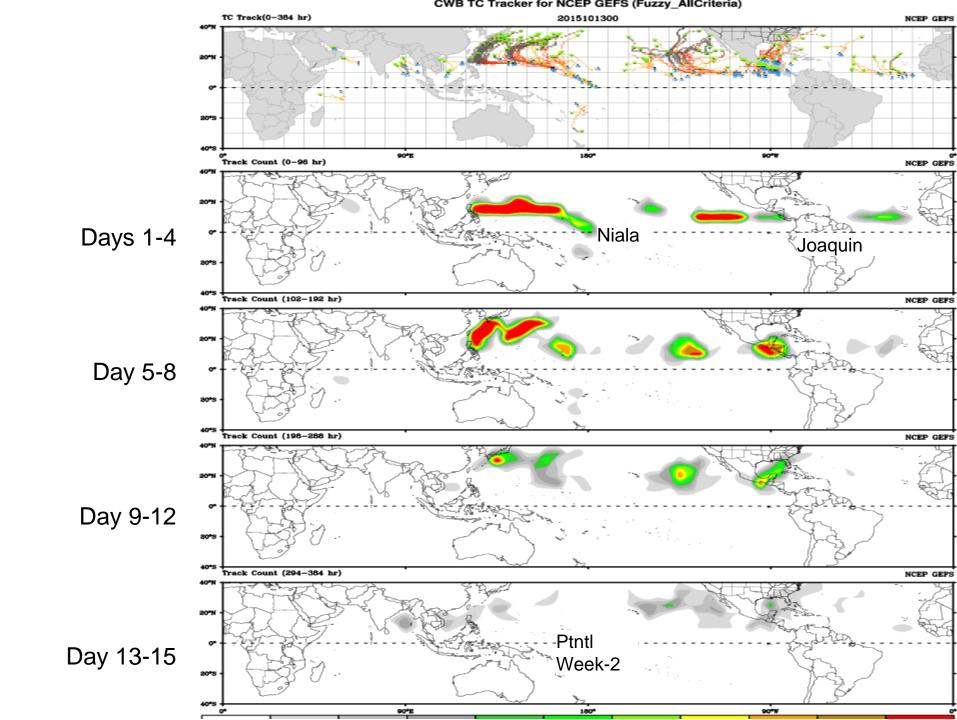


TRODICAL DEPRESSION 25W (TWENTYFIVE) WARNING \$2 WITNING PETW 131500 131200Z POSIT: NEAR 13.0N 159.3E MOVING 260 DEBREES TRUE AT 16 KNOTS MAXIMUM SIGNIFICANT WAVE HEIGHT: 8 FEBT 13/12Z, WINNS 025 KTS, GUSTS TO 035 KTS 14/00Z, WINNS 030 KTS, GUSTS TO 040 KTS 14/12Z, WINNS 030 KTS, GUSTS TO 040 KTS 15/00Z, WINNS 030 KTS, GUSTS TO 040 KTS 15/10Z, WINNS 035 KTS, GUSTS TO 045 KTS 15/12Z, WINNS 040 KTS, GUSTS TO 050 KTS 16/12Z, WINNS 040 KTS, GUSTS TO 070 KTS 16/12Z, WINNS 055 KTS, GUSTS TO 070 KTS 18/12Z, WINNS 055 KTS, GUSTS TO 080 KTS 18/12Z, WINNS 075 KTS, GUSTS TO 090 KTS
CPA TO: NM DTC PAKIN 364 13/14Z CPOLUK 373 14/03Z SAIPAN 73 16/10Z TINIAN 88 16/10Z ANDERSEN_AFB 180 16/11Z HAGATINA 199 16/11Z HAGATINA 199 16/11Z HAGATINA 197 16/12Z NAVSTA GUAM 197 16/12Z NAVSTA GUAM 197 16/12Z ALĀMĀGĀN 65 16/13Z PĀGĀH N 197 16/12Z ALĀMĀGĀN 93 16/12Z ACH N 197 16/12Z ALĀMĀGĀN 197 16/12Z ALĀMĀGĀN 197 16/12Z ALĀMĀGĀN 197 16/12Z ALĀMĀGĀN 197 16/12Z
BEARING AND DISTANCE DIR DIST TAU (NM) (HRS) OROLUK 003 384 24
O LESS THAN 34 KNOTS § 34-63 KNOTS € MORE THAN 63 KNOTS PAST 6 HOURLY CYCLONE POSITS IN BLACK FORECAST CYCLONE POSITS IN COLOR

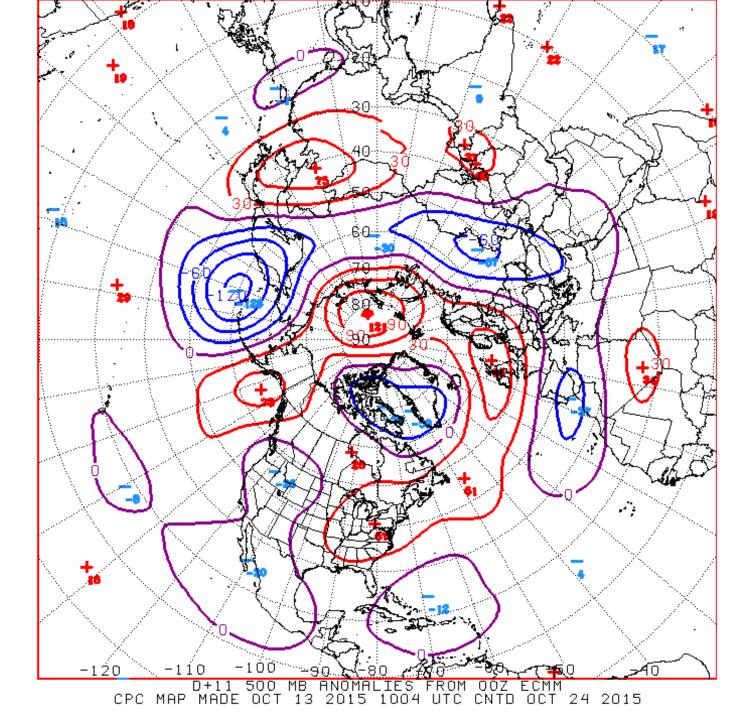




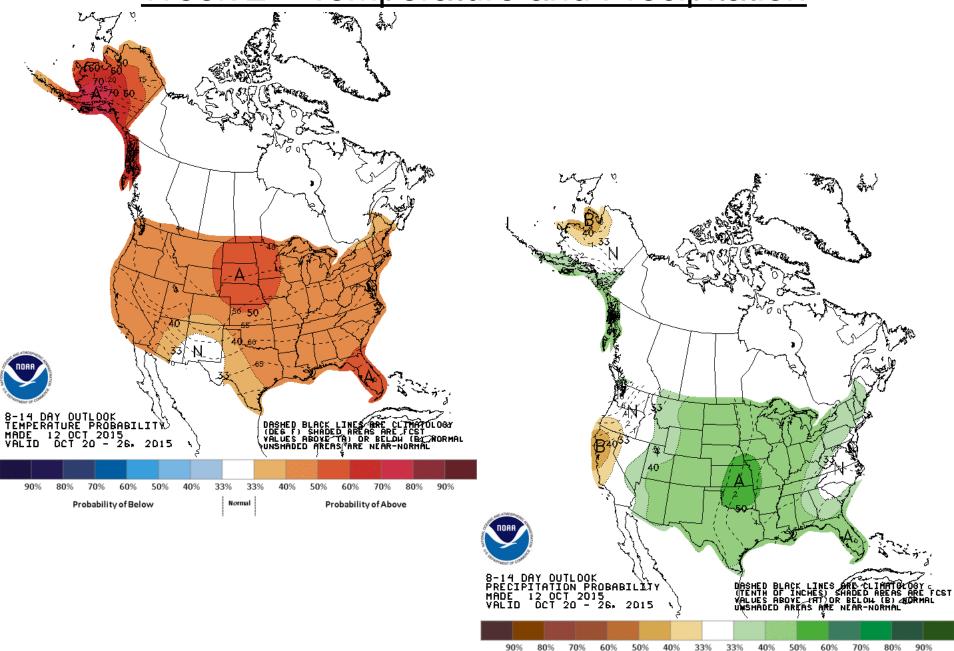




Connections to U.S. Impacts



Week 2 - Temperature and Precipitation



Probability of Below

Normal

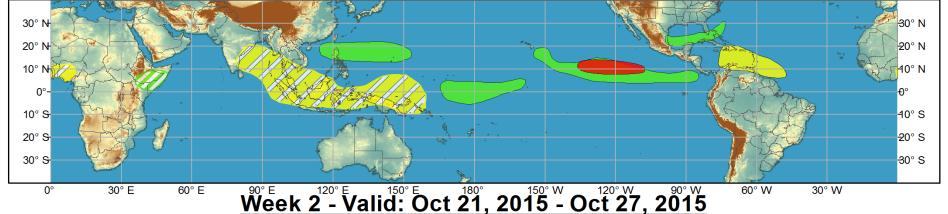
Probability of Above

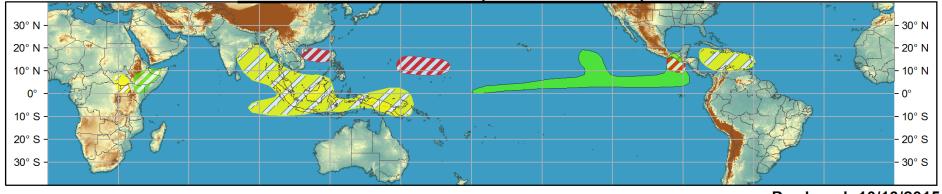


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