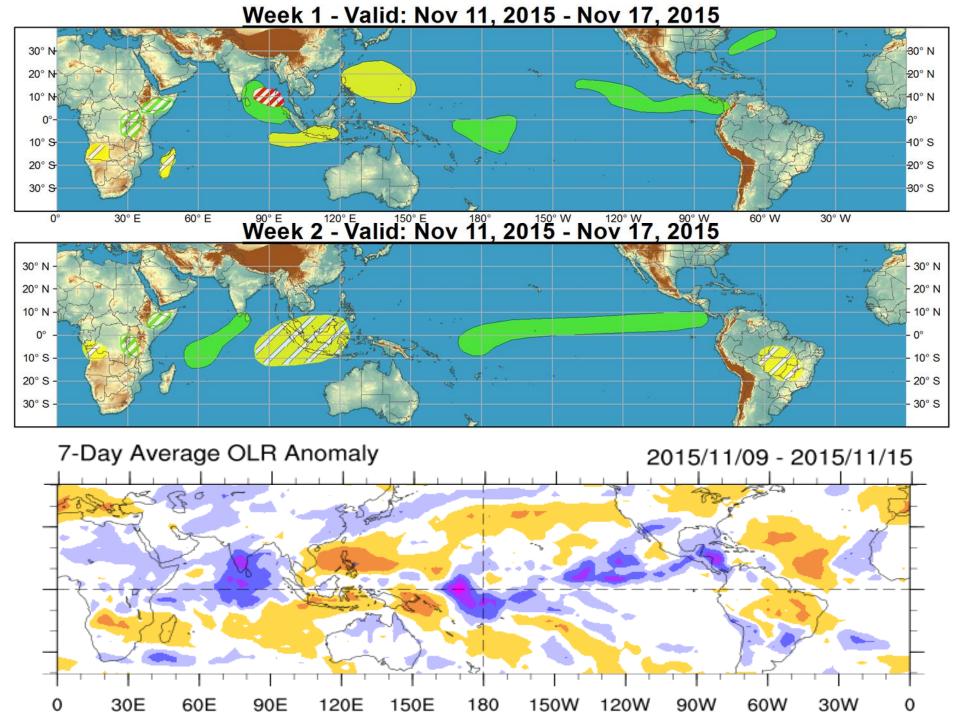
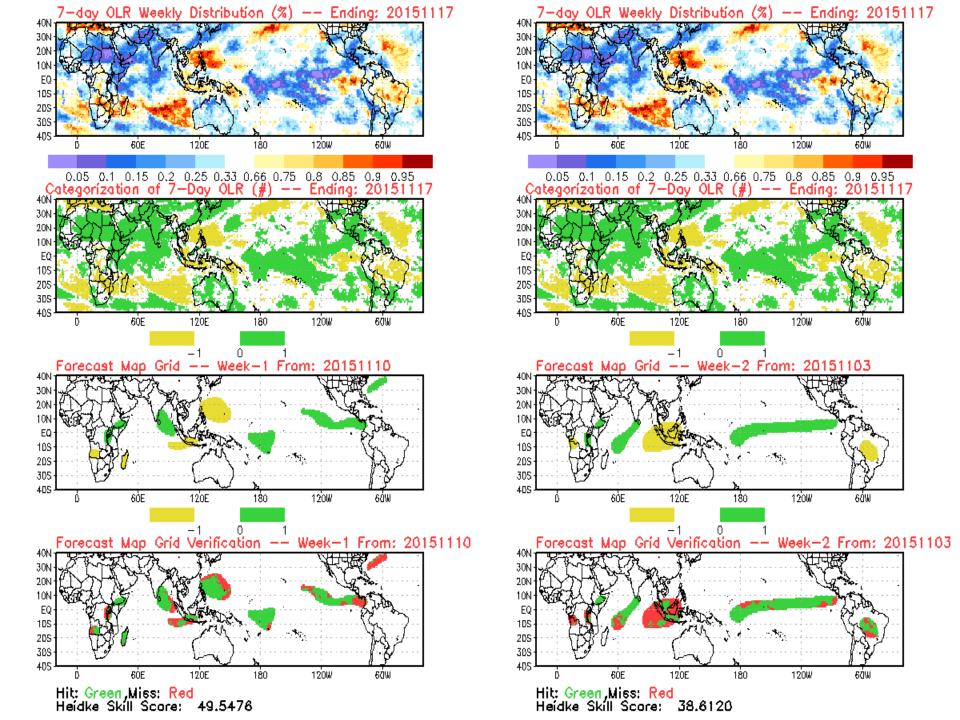
Global Tropics Hazards And Benefits Outlook November 17, 2015

Adam Allgood

Outline

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





Synopsis of Climate Modes

ENSO:

- Current: El Niño Advisory
- Outlook: El Niño will likely peak during the Northern Hemisphere winter 2015-16, with a transition to ENSO-neutral anticipated during the late spring or early summer 2016.

MJO and other subseasonal tropical variability:

- The MJO Index broke down during the past week.
- A resurgence of the ENSO atmospheric response, Equatorial Rossby Wave activity west of the Date Line, and a stationary convective signal over the central Indian Ocean all contributed to the weakened intraseasonal signal.
- Some remnant MJO signal (or Kelvin Wave activity) is apparent over the east-central Pacific.
- Most dynamical model MJO index forecasts depict little MJO activity during the next two weeks, although projections of the RMM Index over the Indian Ocean are anticipated to continue.

Extratropics:

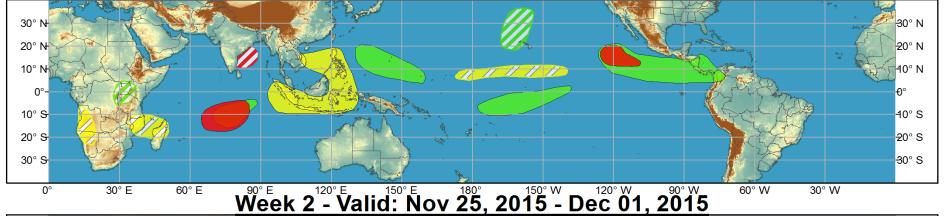
- MJO activity will not play a significant role.
- The El Niño based atmospheric response is currently very robust in the Northern Hemisphere.
- Long range outlooks place the enhanced southerly jet generally south of California with a strong trough over the northeastern Pacific.

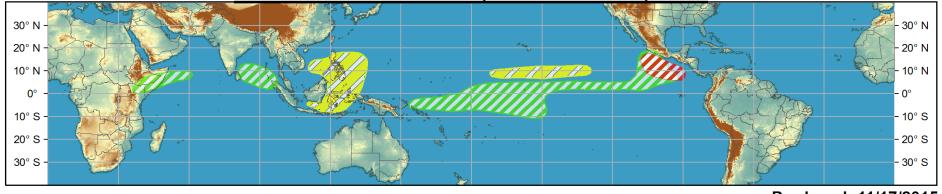


Global Tropics Hazards and Benefits Outlook - Climate Prediction Center









Confidence High Moderate Produced: 11/17/2015

Forecaster: Allgood

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

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Below-average rainfall

Above-normal temperatures

Below-normal temperatures







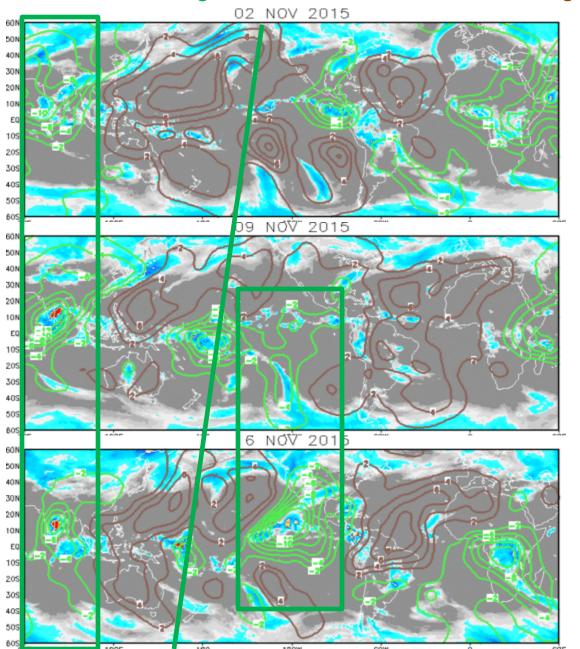






IR Satellite & 200-hpa Velocity Potential Anomalies

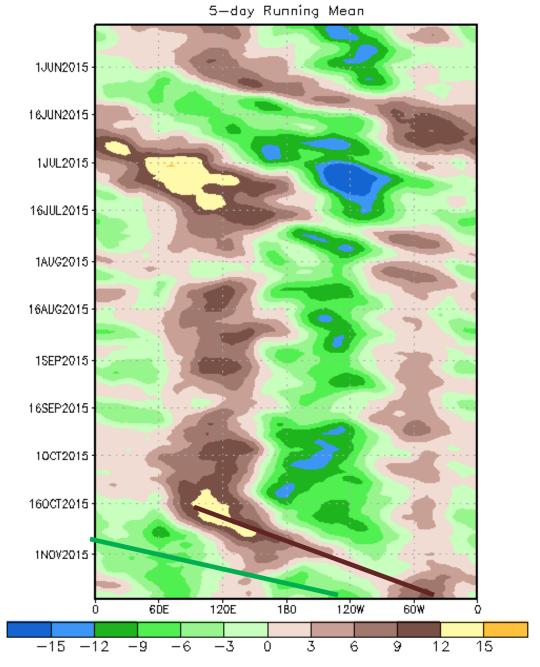
Green: Enhanced Divergence Brown: Enhanced Convergence



Eastward propagation of an intraseasonal signal was observed during late October and early November.

More recently, the signal has broken down, with a Wave-2 pattern globally.

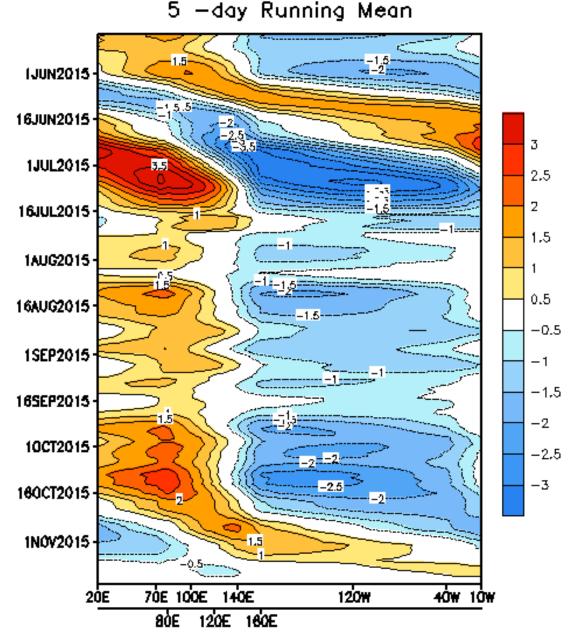
200-hPa Velocity Potential Anomaly: 5N-5S



Data updated through 15 NOV 2015

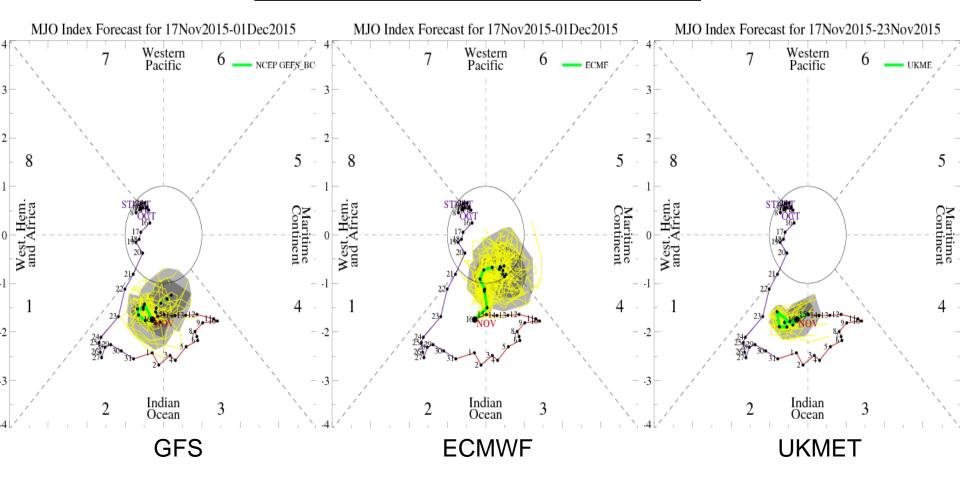
The CPC velocity potential index showed fast propagation of the signal through early November (strong Kelvin Wave?).

More recently, the intraseasonal signal has broken down.

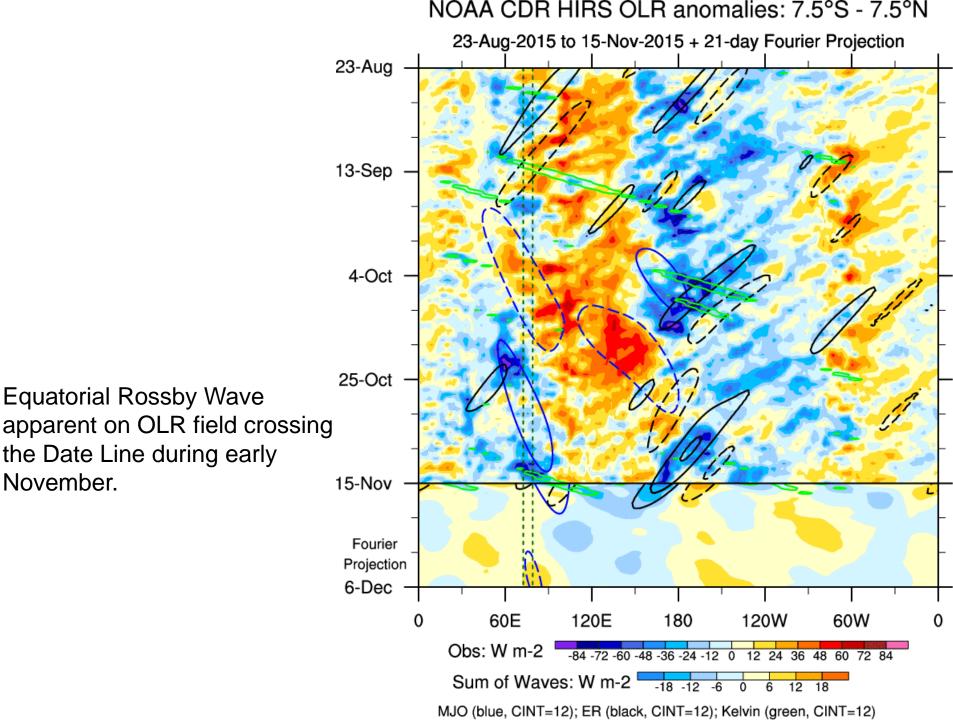


Data updated through 17 Nov 2015

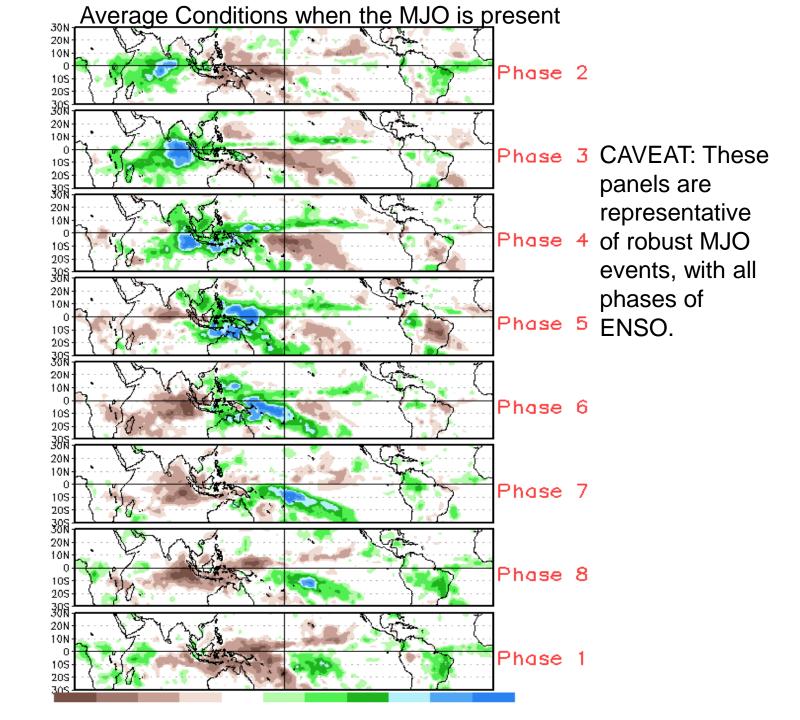
MJO Observation/Forecast



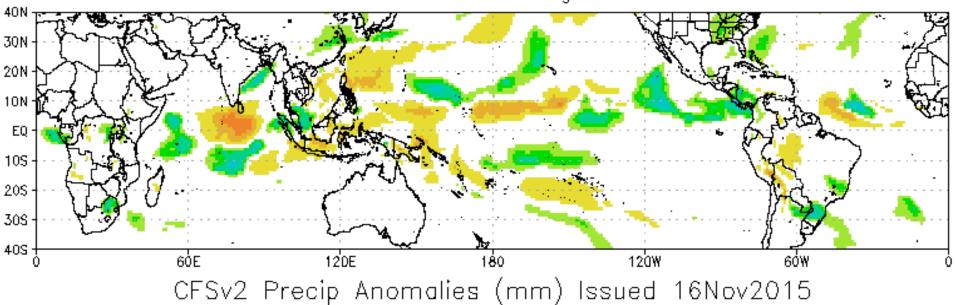
MJO activity is not anticipated during the next two weeks.



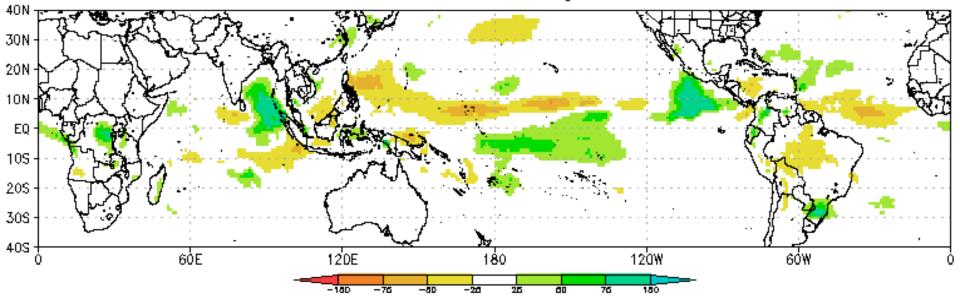
November.



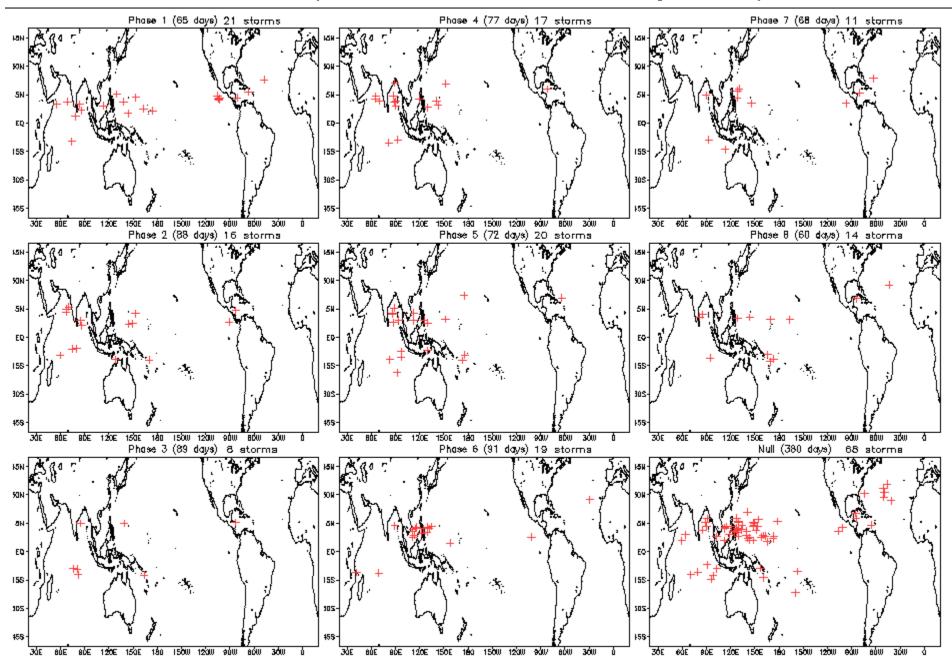
CFSv2 Precip Anomalies (mm) Issued 16Nov2015 Week—1 Forecast Ending 24Nov2015

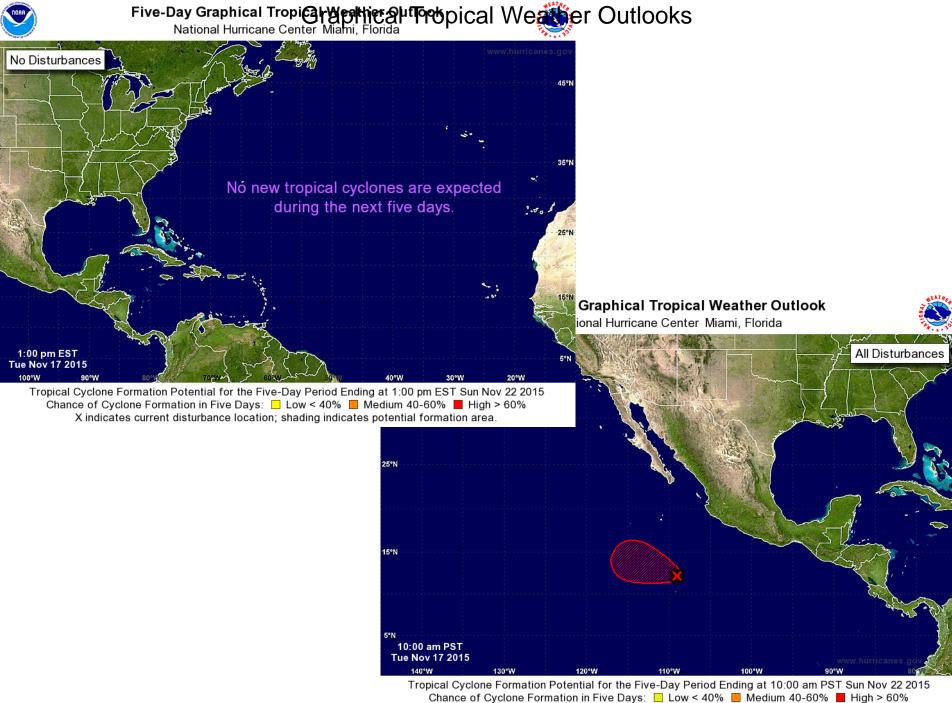


CFSv2 Precip Anomalies (mm) Issued 16Nov2015 Week—2 Forecast Ending 01Dec2015

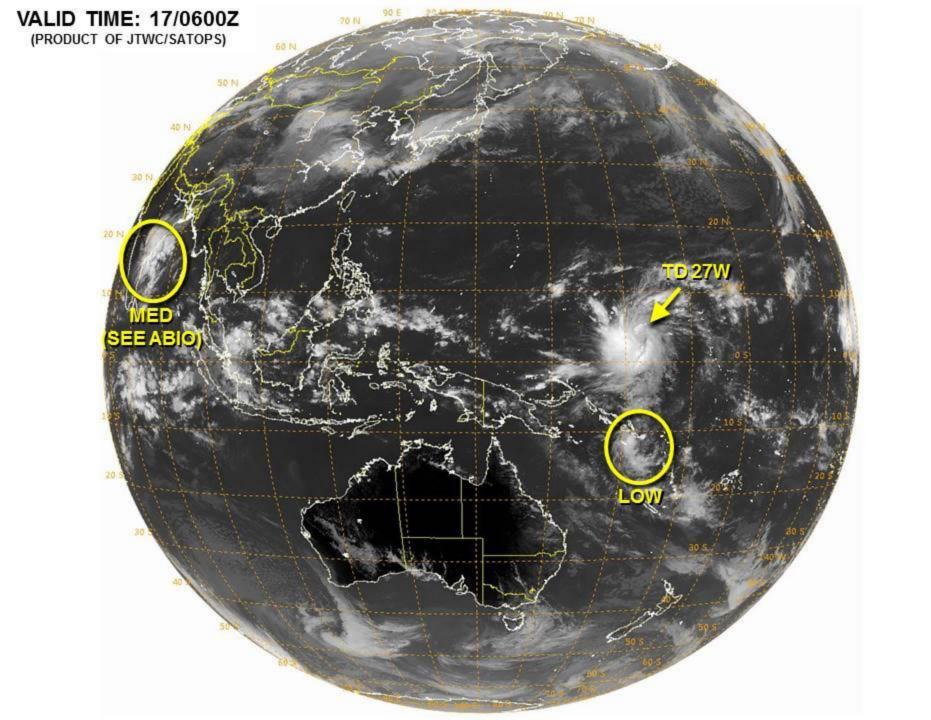


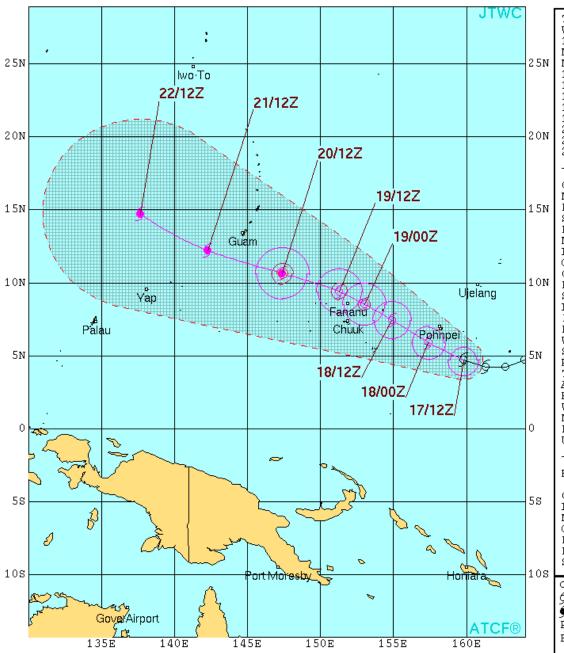
November Tropical Storm Formation by MJO phase





X indicates current disturbance location; shading indicates potential formation area.





TROPICAL STORM 27W (IN-FA) WARNING #3
WTPN31 PGTW 171500
171200Z POSIT: NEAR 4.7N 159.8E
MOVING 290 DEGREES TRUE AT 16 KNOTS
MAXIMUM SIGNIFICANT WAVE HEIGHT: 14 FEET
17/12Z, WINDS 040 KTS, GUSTS TO 050 KTS
18/00Z, WINDS 045 KTS, GUSTS TO 055 KTS
18/12Z, WINDS 050 KTS, GUSTS TO 065 KTS
19/00Z, WINDS 055 KTS, GUSTS TO 070 KTS
19/12Z, WINDS 060 KTS, GUSTS TO 075 KTS
20/12Z, WINDS 070 KTS, GUSTS TO 085 KTS
21/12Z, WINDS 090 KTS, GUSTS TO 110 KTS
22/12Z, WINDS 100 KTS, GUSTS TO 125 KTS

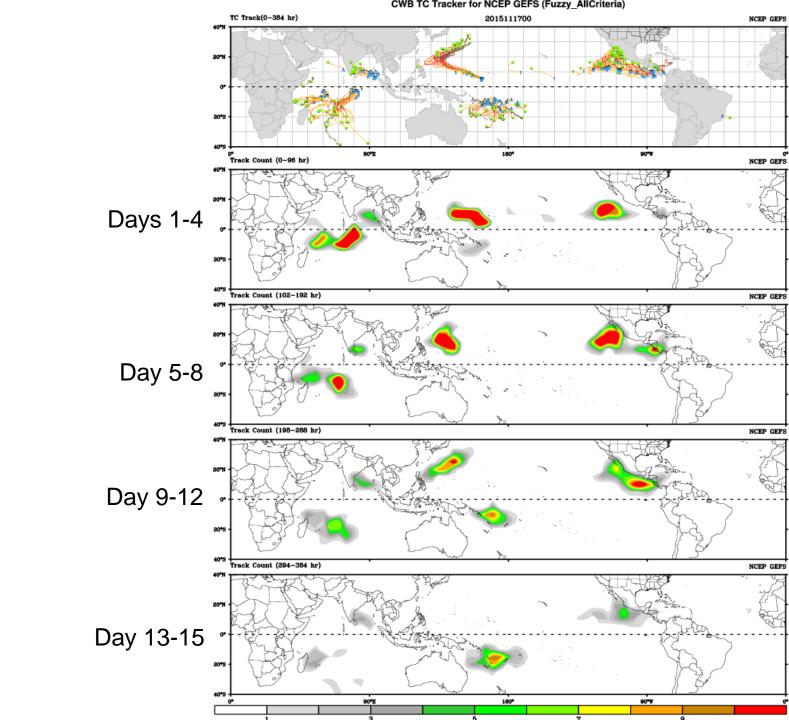
CPA TO:	NM	DTG
MOKIL	113	17/16Z
POHNPEI	76	17/23Z
SAPWUAFIK	8	18/00Z
PAKIN	74	18/01Z
NUKUORO	181	18/04Z
LUKUNOR	120	18/11Z
OROLUK	25	18/12Z
CHUUK	85	19/03Z
PULUWAT	175	19/22Z
SATAWAL	189	20/09Z
LAMOTREK	195	20/12Z
IFALIK	240	20/21Z
FARAULEP	163	20/22Z
WOLEAI	242	20/23Z
SAIPAN	238	21/01Z
ROTA	165	21/02Z
TINIAN	223	21/02Z
ANDERSEN_AFB	131	
HAGATNA	112	21/03Z
WFO_GUAM	124	21/03Z
NAVSTA GUAM	114	21/04Z
FAIS -	175	21/15Z
ULITHI	192	21/18Z

	BEARING AND DISTANCE	DIR	DIST	TAU (HRS)
	CHUUK	092	179	24
	LUKUNOR	026	121	24
	NUKUORO	358	216	24
	OROLUK	225	2.5	24
	PAKIN	276	174	24
	POHNPEI	279	199	24
	SAPWUAFIK	304	172	24
П				

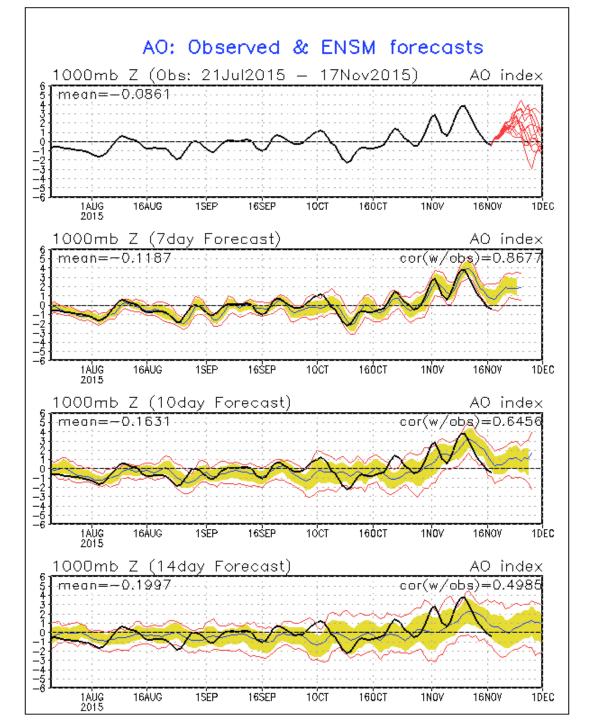
- oless than 34 knots
- 634-63 KNOTS
- ∮MORE THAN 63 KNOTS

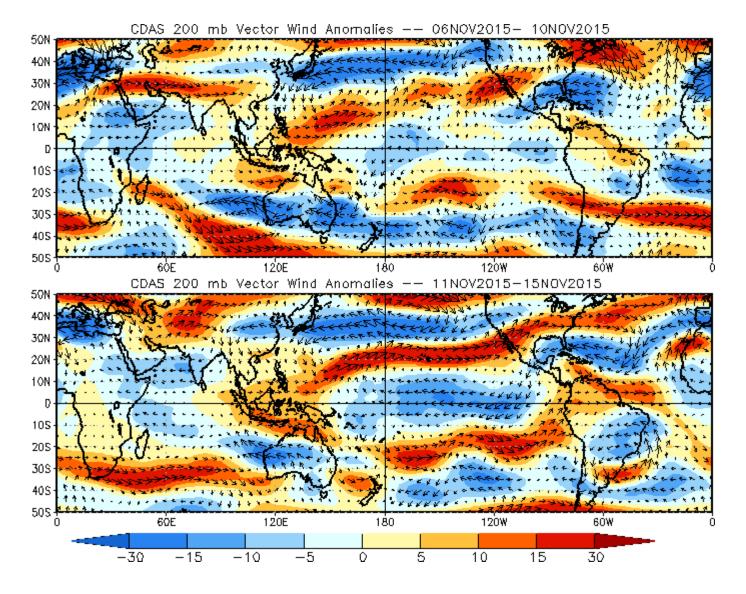
PAST 6 HOURLY CYCLONE POSITS IN BLACK FORECAST CYCLONE POSITS IN COLOR



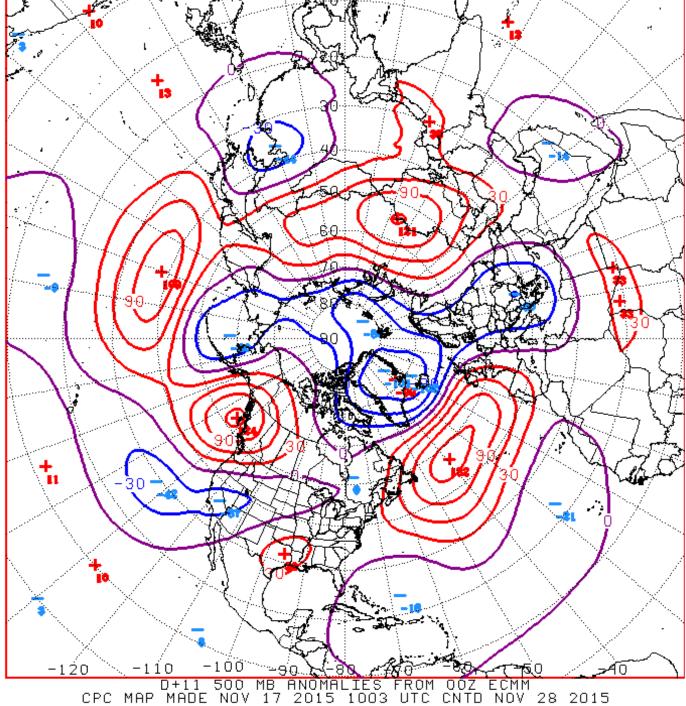


Connections to U.S. Impacts

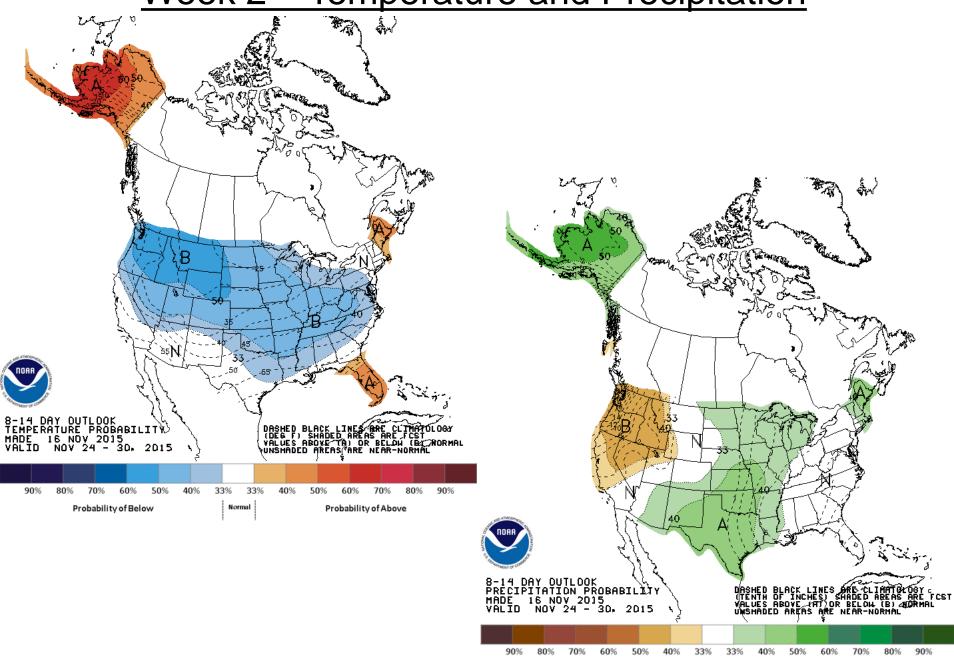




The El Niño atmospheric response (e.g., easterlies along equator, enhanced southerly jets) has become very pronounced during the latest pendad.



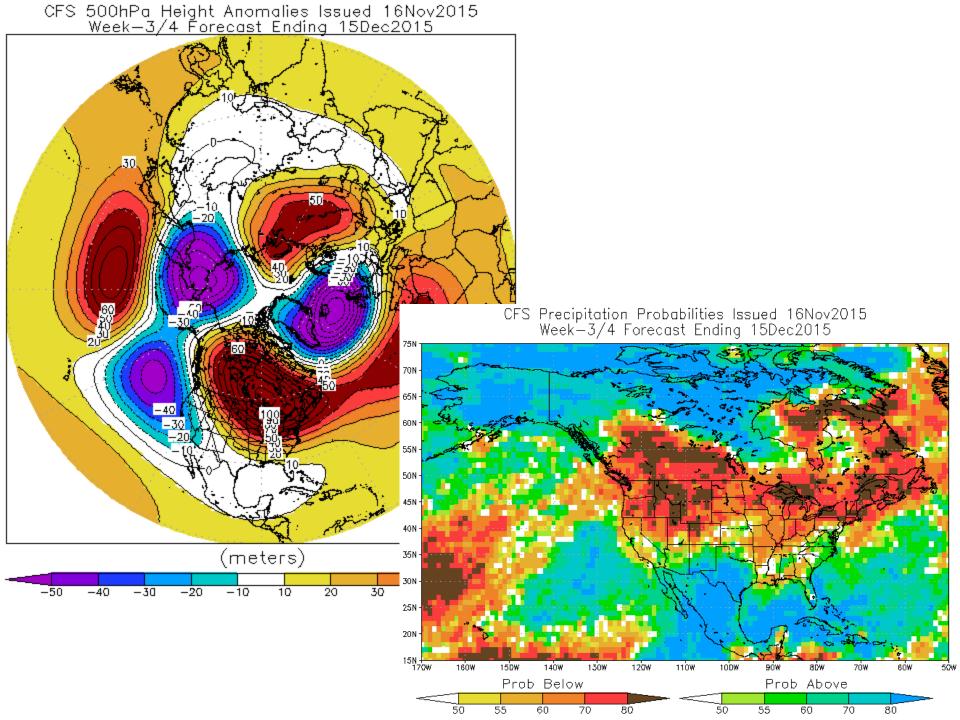
Week 2 - Temperature and Precipitation

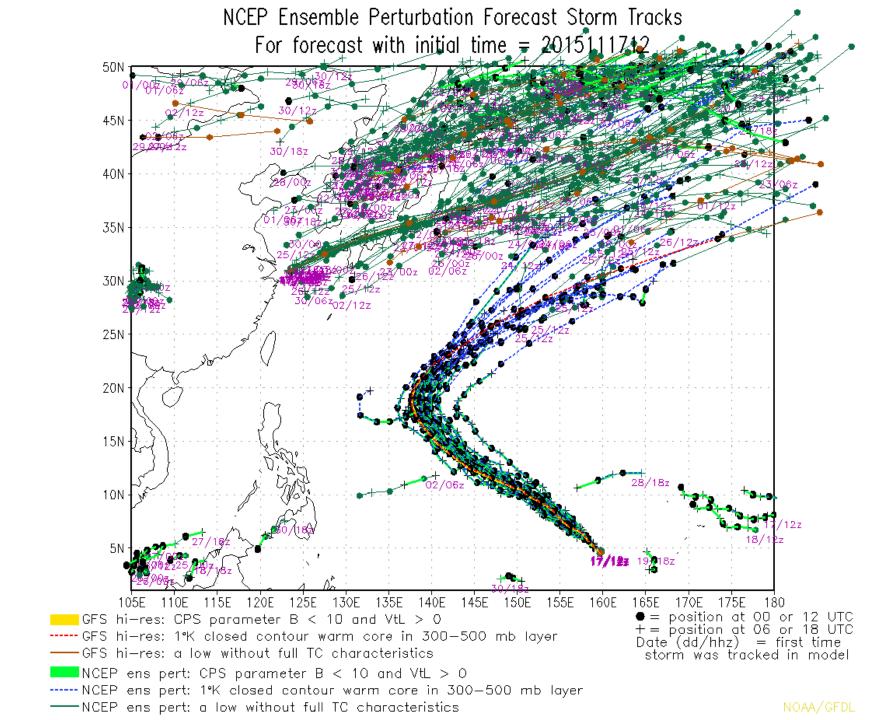


Probability of Below

Normal

Probability of Above



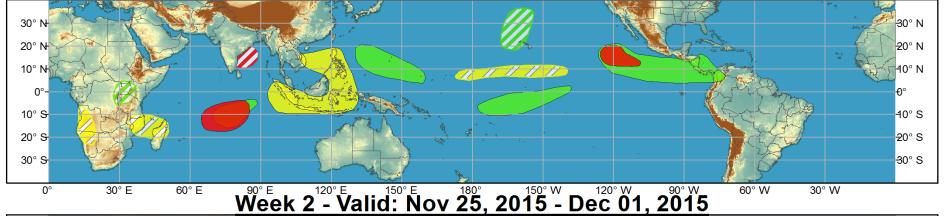


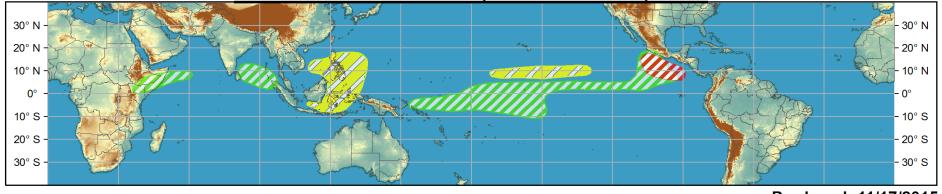


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