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Madden / Julian Oscillation (MJO)

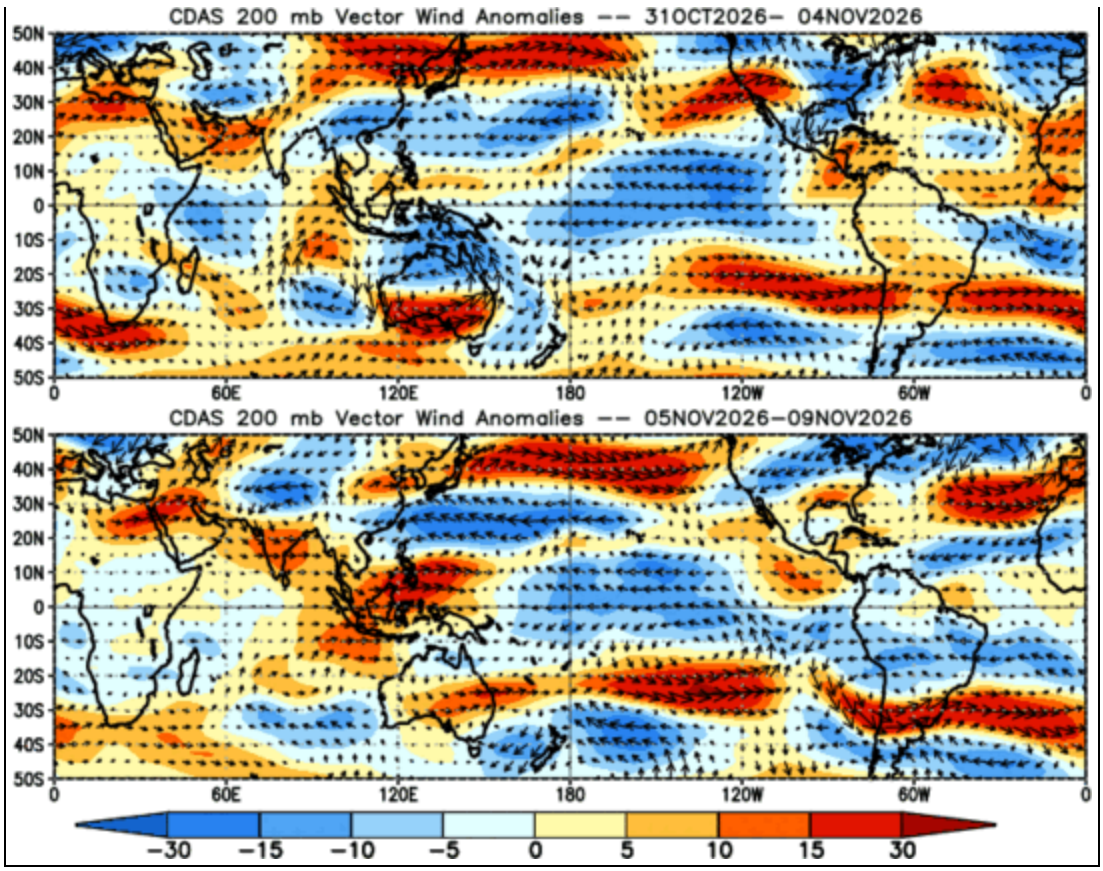
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Current Conditions

Note: Move cursor over product name to display. Click for larger size and info

MJO Indices		Satellite / Outgoing Longwave Radiation (OLR)			
CPC	WH	Vel Potential / IR	Global IR	OLR Map	OLR Time-Lon
850-hPa and 200-hPa Tropical Winds					
850 Total	850 Anom	850 Time-Lon	200 Total	200 Anom	200 Time-Lon

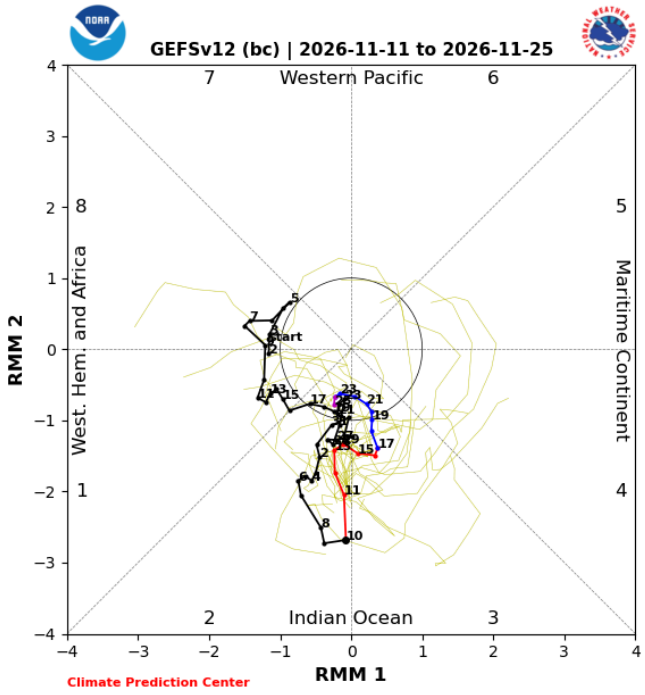
500-hPa and 200-hPa Heights and Wind					Velocity Potential		Ocean
NH 500	SH 500	Global 200	500 5-Day	200 5-Day	200-hPa	850-hPa	Heat Cont



- **Forecasts**

Note: Move cursor over product name to display. Click for larger size and info

Dynamical MJO Forecasts					
Ensemble GFS	Hires GFS	GEFS OLR Map	GEFS Time-Lon	1WK Verif	2WK Verif
Statistical MJO Forecasts					
CA - LLR - AR Phase Diagram		CA OLR Map	CA Time-Lon	1WK Verif	2WK Verif
200-hPa Velocity Potential Forecasts					
Empirical Wave Propagation		Global Forecast System		Climate Forecast System	



- **MJO Task Force Dynamical Model MJO Forecasts**

The U.S. CLIVAR program instituted a MJO working group to study and develop diagnostics and metrics related to various components related to the MJO during 2006. A subgroup was organized to focus on MJO operational prediction and was tasked to develop a MJO forecast metric for comparison of dynamical models from operational global prediction systems. The decision was made for NCEP / CPC to host the application, display, and evaluation of these MJO model forecasts. During 2010, the group was reformulated as the WCRP/WWRP-THORPEX YOTC Task Force. Below are links to the MJO model forecasts, the MJO Task Force home page and the U.S. CLIVAR MJO Working Group original home page.

Operational Realtime Dynamical Model MJO Forecasts
WCRP/WWRP-THORPEX YOTC MJO Task Force Home Page
U.S. CLIVAR MJO Working Group Home Page

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- **Additional MJO Products**

- Time-Longitude Sections of MJO-Associated Anomalies Only

850-hPa Zonal Wind	200-hPa Zonal Wind	200-hPa Vel Potential	850-hPa Vel Potential

- Velocity Potential EWP / GFS / CFS MJO Prediction
- Streamfunction EWP / GFS / CFS MJO Prediction

- Global tropics benefits/hazards briefing sequence web page

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Expert Discussions

- MJO Weekly Update (PPT)
- MJO Weekly Update (PDF)
- MJO Update Archive

(Comments/Suggestions? Send to: Jon Gottschalck)

A Global Tropics Hazards and Benefits Outlook that incorporates the current state and anticipated evolution of the MJO as input can be found as part of CPC's expert assessments.

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Composites

- **Lagged Composites** New
- **U.S. Temperature**
- **U.S. Precipitation**
- **Tropical**

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Educational Material

- MJO 1-Page Fact Sheet (PDF)

- MJO Detailed Information (PDF)

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Publications

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