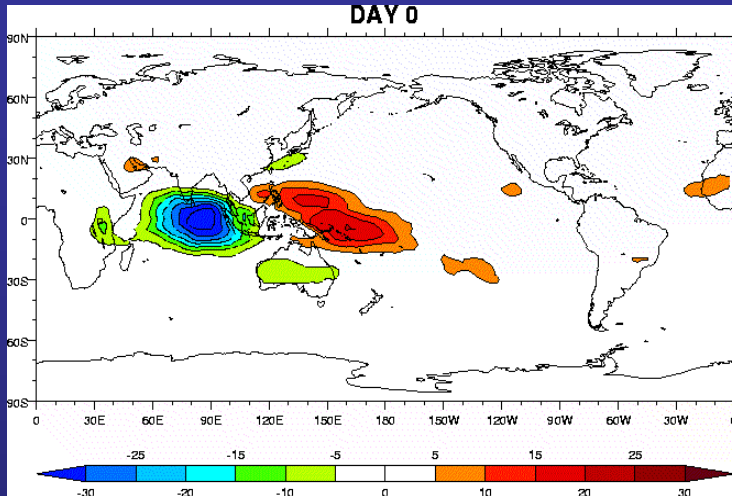


MJO Activities at CPC

- The MJO is the dominant mode of tropical intraseasonal variability



Madden / Julian Oscillation (MJO)

- Current Conditions
- Forecasts
- US CLIVAR MJO Forecast Project
- Additional MJO Products
- Expert Discussions
- Composites
- Educational Material
- Publications

Current Conditions

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

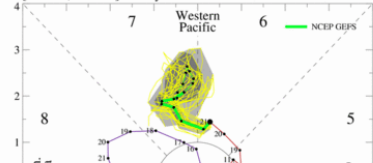
MJO Indices		Satellite / Outgoing Longwave Radiation (OLR)			
CPC	WH	Vel Potential / IR	Global IR	OLR Map	OLR Time-Lon
850-hPa and 200-hPa Tropical Winds					
850 Total	850 Anom	850 Time-Lon	200 Total	200 Anom	200 Time-Lon
500-hPa and 200-hPa Heights and Wind			Velocity Potential		Ocean
NH 500	SH 500	Global 200	500 5-Day	200 5-Day	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			

[RMM1, RMM2] 15-day forecast for 22Jan2010 to 05Feb2010



Madden-Julian Oscillation: Recent Evolution, Current Status and Predictions

Update prepared by
Climate Prediction Center / NCEP
December 3, 2007

- Both CPC branches contribute to these components:

- (1) Monitoring,
- (2) Prediction,
- (3) Research,
- (4) Assessment,

- International presence and collaboration

- US CLIVAR MJO Working Group
- YOTC MJO Task Force

Global Tropics Hazards / Benefits Assessment

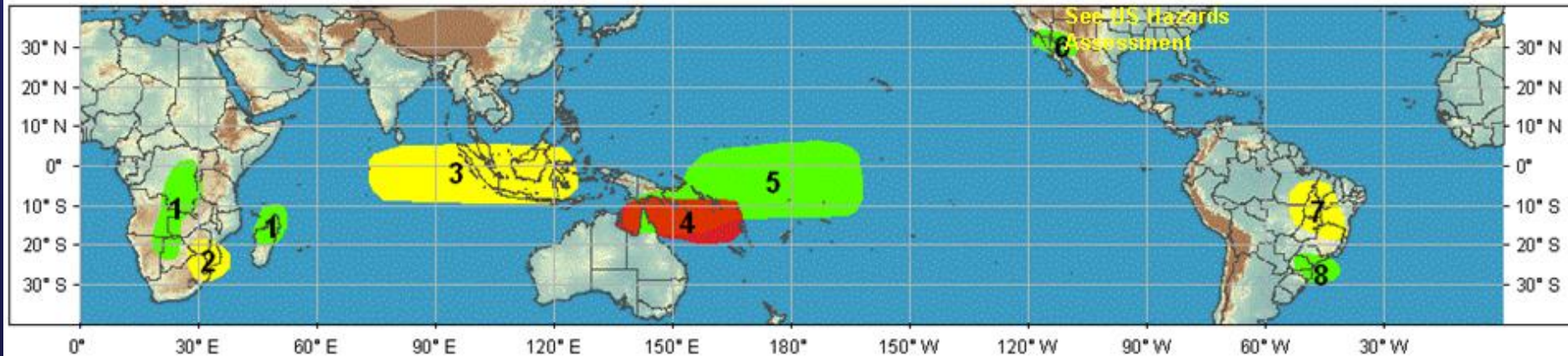
- Outlooks for above (top 33%) / below (bottom 33%) precipitation and favorable/unfavorable conditions for tropical cyclone activity
- Outlooks for Week 1 and Week 2
- Synthesizes information related to climate variability on multiple time scales and from various sources
- Physical basis: MJO, ENSO, other coherent tropical variability (*i.e.*, atmospheric Kelvin waves, equatorial Rossby waves, AEWs) and interaction with the extratropics

Global Tropics Hazards/Benefits Assessment - Climate Prediction Center - Issued: 1/19/2010

Product issued once per week with no updates. Conditions are subject to change after issuance time and before next outlook.
Product targets broad scale conditions integrated over a 7 day period for US interests only. Please also consult your local responsible forecast agency.



Week 1 Outlook – Valid: January 20 - 25, 2010



Global Tropics Hazards / Benefits Assessment

The activity supports the NOAA mission in three ways:

- (1) Provide subseasonal forecasts of tropical cyclone hazards to US government agencies and interests
- (2) Provide US emergency planners with interests across the global tropics advance notice on hazards
- (3) Support sectors of US economy (financial, energy, agriculture, water resource management) that have foreign interests

NWS: NCEP, WFOs, RFCs, Regional HQs

NOAA agencies: US Forest Service, National Marine Fisheries Service

Aid Organizations: US and International Red Cross, USAID

Private Sector: Energy, agriculture, financial, and water resources sectors

Others: International weather agencies, TV meteorologists, Academia

- Released each Monday ~ 4 PM ET, conference call
- Integrates a number of CPC activities (ENSO team, monsoon team, MJO team, etc.)
- Provides tropical large-scale input for CPC US forecasts
- Supports international issues when requested
- Verification statistics calculated

Haitian Relief Weather Support

