+++ Suppressed conditions throughout the DYNAMO area +++

- Current Conditions/Previous Day Recap

Convection associated with the Southern Hemisphere band shifted west of the arrays today, with only minimal shower activity near Diego Garcia (a forecast bust). Apparently, the area near Diego Garcia is currently in the dry/ridge part of the easterly wave, as seen in the CIMSS TPW loop. Yesterday’s model guidance failed to predict this feature, either not predicting the dry area at all or having it ~100 km south of Diego Garcia (Today it looks like ECMWF and the METEO France models initialize this feature the best). Additionally, the suppressed phase of an Equatorial Rossby wave may be playing a role.

Currently, over the DYNAMO area, all equatorial wave modes are either in suppressed phase or transition to suppressed phase. The RMM index has progressed into phase 4 (Maritime Continent), and we are in a transition to the suppressed phase (e.g., RMM phases 5-7).

Elsewhere, the low pressure system in the east Arabian Sea (INVEST 96A) is producing more widespread convection than yesterday. Convection continued to decrease in the eastern IO region.

Soundings: Slides 9-15. Seychelles quite a bit more moist than yesterday, due to proximity of the convection. Colombo, Male, and Gan remain relatively dry. Diego Garcia was much drier than yesterday. Midlevel winds at Diego Garcia indicate that the outbreak of convection yesterday may have been associated with the passage of a weak easterly wave axis (marked on CIMSS TPW plots), which has since moved west of DG, and DG is now in the ridge inbetween two wave troughs.
Southern Hemisphere convective band remains in place west of the southern array. DG remains in the dry “ridge” part of the easterly wave train, though the trough passes through RV Mirai with some scattered showers possible. Elsewhere, dry throughout both DYNAMO arrays.

Low pressure system in the central Arabian Sea becoming better organized. Easterly wave axis approaching the RV Mirai at the end of Day 1, with moistening and possibly some scattered storms.

Mostly dry at Gan. 0-5 mm accumulation. Mostly dry at Diego Garcia with some isolated showers possible at the end of day 1, 0-10 mm accumulation.

The easterly wave trough moves over Diego Garcia, with the best chance for organized deep convection at the end of day 2 (night time). Return to dry conditions at RV Mirai. Dry rest of DYNAMO area.

The low pressure system moves into the western Arabian Sea becomes a tropical cyclone.

Southern Hemisphere convective band from very near Diego Garcia westward to the western IO. Rough arrival for the P3, especially if they are arriving at night. The active phase of the Equatorial Rossby wave begins to enhance convection over the DYNAMO area. Area of scattered convection near the Equator in the eastern IO may expand west into the northern array.
Today’s Summary: 0Z  
5-Nov to 6-Nov

Day 1: 0Z  
6-Nov to 7-Nov

Day 2: 0Z  
7-Nov to 8-Nov

Day 3: 0Z  
8-Nov to 9-Nov
Day 4: 0Z  9-Nov to 10-Nov
Day 5: 0Z  10-Nov to 11-Nov
OZ 5-Nov-11
Morphed composite: 2011-11-05 00:00:00 UTC

12Z 5-Nov-11
Morphed composite: 2011-11-05 12:00:00 UTC

Cloud Clusters in 10S-10N, 50E-100E
TMVAMSRE TPW AVERAGE 10S - 10N (mm)
12.5-2.5B: MJO (white, CINT=7.5, dash-dry) ER (grey, CINT=7.5) Kelvin (magenta, CINT=10)
• Cloud Clusters (by size)
SPOL Revelle

~0Z 5-Nov-11

~12Z 5-Nov-11

In Transit.
Seychelles

Yesterday

Today
Time series for 43466 from 10/29 to 11/05

Yesterday

Colombo

Today
Male

Yesterday
CSU Skew-T

43555, VRMM
4.2N 73.5E

12/04 Nov. 2011

Note - Quick-look data
wind barbs (knots)

Today
CSU Skew-T

43555, VRMM
4.2N 73.5E

12/05 Nov. 2011

Note - Quick-look data
wind barbs (knots)
Gan

Yesterday
CSU Skew-T

Today
CSU Skew-T
RV Revelle

NOTE: IN TRANSIT.
Yesterday
CSU Skew-T

61967, DDRG
7.3S 72.4E
12Z 04 Nov. 2011

Note: Quick-look data
wind bars (knots)

Today
CSU Skew-T

61967, DDRG
7.3S 72.4E
12Z 05 Nov. 2011

Note: Quick-look data
wind bars (knots)
RV Mirai

Yesterday

CSU Skew-T

99990, JNSR
7.95 80.5E
12Z 04 Nov. 2011
Note - Quick-look data
wind barbs (knots)

Today

CSU Skew-T

99990, JNSR
7.95 80.4E
12Z 05 Nov. 2011
Note - Quick-look data
wind barbs (knots)
Begin Forecast Graphics
Day 1: 0Z  6-Nov to 7-Nov
Day 3: 0Z 8-Nov to 9-Nov

Climate Prediction Center UMD/ESSIC
Day 4: 0Z 9-Nov to 10-Nov

GFS forecast Precip for day 5 for: 20111110 from 00z

- Climate Prediction Center UMD/ESSIC
MJO
Day 0-3
Day 4-8

Equatorial Rossby
Day 0-2
Day 2-4
Day 4-6

Kelvin
Day 0
Day 1