+++ Low pressure south of Diego Garcia +++ Dry tongue in northern array +++

- Current Conditions/Previous Day Recap

Large MCS with the low pressure center moving SW from the southern array to south of Diego Garcia. Convection was mostly limited to the southern half of the southern array. In the northern array, the dry air tongue could be seen at Male and Gan. Dry air is also beginning to appear at the RV Revelle sounding at 700 mb, indicating that some of the dry air may already be affecting the east side of the array.

Arabian Sea cyclone (5A) is succumbing to southwesterly shear and is has an exposed center.

Very active in the eastern IO. Weak low pressure system west of Sumatra.

Wave mode projections from the BOM suggest that the suppressed phase of the Equatorial Rossby wave will move over the array during days 2-4. After that, a brief increase in convection is possible over the DYNAMO array since the back of the MJO active envelope will still be in place.
• Day 1 (0Z 30-Nov to 1-Dec)  

Low pressure system moving south of the southern array, taking the convection with it. Dramatically drier throughout the DYNAMO area with the dry air moving in from the west.

Gan: Much less active, Isolated showers. 0-5 mm accumulation.

Diego Garcia: Isolated thunderstorms. 0-5 mm accumulation.

• Days 2-3 (0Z 1-Dec to 3-Dec)  

Low pressure system moves further south, but the tail end of it merges with the southern Hemisphere ITCZ, especially in the western IO. This rain band will be near or over Diego Garcia. Also, there is the possibility of a weak northern “ITCZ” band at the northern boundary of the northern array.

Low pressure system in the Bay of Bengal remains weak and moves north. Also, a new low pressure system in the Southern Hemisphere eastern IO is forecast to develop, in both ECMWF and GFS.

• Days 4-5 (0Z 3-Dec to 5-Dec)  

Continued generally dry conditions over the DYNAMO array, and also drier in the eastern IO. The convective band feeding into the low pressure in the central southern IO still stretching across Diego Garcia into the Southern Hemisphere ITCZ. The exact location of this band feature is uncertain, also whether the system develops into a cyclone. Meanwhile, the system in the Southern Hemisphere eastern IO moves south. It is also uncertain whether this system becomes a cyclone or not.

The ECMWF forecasts some increase in scattered shower activity in the northern array on day 5, but with small rain accumulations.
Today’s Summary: 0Z  
Day 1: 0Z  
29-Nov to 30-Nov
Day 2: 0Z  
1-Dec to 2-Dec
Day 3: 0Z  
2-Dec to 3-Dec
~0Z 29-Nov-

~12Z 29-Nov-
Seychelles

Yesterday

Today
Colombo

Yesterday
CSU Skew-T

43466,
6.9N 79.9E
122 25 Nov. 2011
Note - Quick-look data
wind barbs (knots)

Today
CSU Skew-T

43466,
6.9N 79.9E
122 29 Nov. 2011
Note - Quick-look data
wind barbs (knots)
Male

Time series for 43555 from 11/22 to 11/30

Yesterday

CSU Skew-T

43555, VRMM
4.2N 73.5E
122 28 Nov, 2011
Note - Quick-look data
wind barbs (knots)

Today

CSU Skew-T

43555, VRMM
4.2N 73.5E
122 29 Nov, 2011
Note - Quick-look data
wind barbs (knots)
Gan

Time series for 43599 from 11/22 to 11/30

Yesterday

Today
RV Revelle

Yesterday

Today
RV Mirai

Note: moving away
From SE corner.
Begin Forecast Graphics
ECMWF (yesterday’s)

Day 0

Day 1

Day 2

Day 3

Day 4

Day 5

Day 6
End of Day 0. SOURCE: METEO-FRANCE & IPSL

Mean Sea level Pressure (hPa), (arrows) 10m wind

End of Day 1. SOURCE: METEO-FRANCE & IPSL

Mean Sea level Pressure (hPa), (arrows) 10m wind

End of Day 2. SOURCE: METEO-FRANCE & IPSL

Mean Sea level Pressure (hPa), (arrows) 10m wind

End of Day 3. SOURCE: METEO-FRANCE & IPSL

Mean Sea level Pressure (hPa), (arrows) 10m wind
Day 1: 0Z  29-Nov to 30-Nov

NICAM images not available today.

GFS frct Precip for day 2 for: 20111201 from 00z