+++ Double ITCZ over DYNAMO area +++

• Current Conditions/Previous Day Recap

Double-ITCZ pattern continues from yesterday. The northern convective band which was cutting through the southern array dissipated today, so for the northern ITCZ we have only the equatorial band of scattered convection in the eastern IO. (The convection near Male appears to be related to the tail end of a shear line/trough, not a persistent ITCZ band). The southern ITCZ band produced widespread deep convection in 5-10S, 60-75E, including Diego Garcia.

Elsewhere, the Arabian Sea system is now a cyclone, but is struggling with vertical wind shear.

Soundings: Slides 9-15. In general, fairly dry at mid-upper levels. Colombo became very dry with the passage of the shear line, with low-level winds shifting to the NNE. Diego Garcia was nearly moist adiabatic. RV Mirai was more moist, but not enough for convection to break out.
Southern ITCZ band over Diego Garcia and the SW part of the southern array, but most heavy rainfall and deep convection remaining west of the array. Northern band may bring some scattered showers to the Revelle station.

Dry at Gan. 0-5 mm accumulation in isolated showers at night.

Scattered showers and storms near Diego Garcia, esp. at night. 1-10 mm accumulation. Light east winds and no major issues for the P3 arrival.

Double ITCZ pattern continues with the southern band becoming more pronounced. Best chance for deep convection near Diego Garcia is for late day 2. At other times, scattered convection.

The position of the northern ITCZ band is less certain, as some models place it a bit further south, through Gan and Revelle stations.

Southern ITCZ continues to be the dominant feature. With the active Equatorial Rossby wave moving in from the east, convection is shifted even more away from the Equator, and GFS/ECMWF suggest the southern band will actually be well south of Diego Garcia. Conditions over the southern array may be very suppressed if the convection does remain south of Diego Garcia. The northern band remains weak, since the Equatorial Rossby wave wants to increase convection away from the Equator, but the northern band is close to the Equator.

***Current conditions/Forecast schematics have been moved to slides 3-4.
Yesterday

INVEST 96A
~0Z 8-Nov-11

SPOL

~12Z 8-Nov-11

Revelle

In Transit.
Male

Yesterday
CSU Skew-T

43555, VRMM
42N 73.5E
122.07 Nov. 2011

Note - Quick-look data
wind bars (knots)

Today
CSU Skew-T

43555, VRMM
42N 73.5E
122.08 Nov. 2011

Note - Quick-look data
wind bars (knots)
Yesterday

CSU Skew-T

43599, VRMG
0.75 73.2E

122.07 Nov. 2011

Note: Quick-look data
wind barbs (knots)

Today

CSU Skew-T

43599, VRMG
0.75 73.2E

122.08 Nov. 2011

Note: Quick-look data
wind barbs (knots)
RV Revelle

NOTE: IN TRANSIT.

Yesterday
RV Mirai

Yesterday

CSU Skew-T

99990, JNSR
8.0S 80.5E
122.07 Nov. 2011

Note - Quick-look data
wind barbs (knots)

Today

CSU Skew-T

99990, JNSR
7.9S 80.5E
12Z 08 Nov. 2011

Note - Quick-look data
wind barbs (knots)
Begin Forecast Graphics
Day 2: 0Z

10-Nov to 11-Nov

IMD NEW DELHI WRF (27 Km) RAINFALL (mm) FORECAST (72 hr)
based on 00 UTC of 08-11-2011 valid for 00 UTC of 11-11-2011

NICAM OLR & PRECIP (00Z11NOV2011) init:00Z07NOV2011

CO/MMPS 27km OLR, Max: 312.0, Min: 60.8 w/m²
2011110712 070h FCST Valid at2011111100

GFS fcst Precip for day 3 for: 20111111 from 00z

Climate Prediction Center NCEP/ESSIC
Day 4: 0Z 12-Nov to 13-Nov

GFS frcst Precip for day 5 for: 20111113 from 00z
Statistical

Dynamical

ECMWF ensemble (1 month forecast)

NICAM
MJO (5 day means)

Day -1 to 3

Day 4-8

Equatorial Rossby (3 day means)

Day -1 to 1

Day 2-4

Day 5-7

Kelvin (1 day means)

Day 0

Day 1