+++ MJO signal weak +++ Active throughout DYNAMO area +++

• Current Conditions/Previous Day Recap

The broad cyclonic gyres persist over ~0-10N in the Arabian Sea and Bay of Bengal, with the later one more pronounced. Also, the eastern gyre is part of a “twin cyclone” circulation. The enhanced convection is probably due to the active phase of an Equatorial Rossby wave and also Kelvin wave modes which is moving through the area and counter-acting the MJO suppressed signal. The development of the twin cyclone pattern was well predicted by the models.

The low-level westerlies are still pronounced near the Equator. The MJO has “stalled” and weakened and not yet entered phase 6/7, which are the most pronounced dry phases for the DYNAMO arrays. Other wave modes and also midlatitude influences are affecting the weather with very weak MJO contribution.
• Day 1 (0Z 20-Dec to 21-Dec)

Active convection in both arrays with the twin cyclone gyre centered over the eastern end of the array. Most active in the eastern side of the domain.

Gan: Frequent convection and heavy rain, most active at night. Heavy rain. 5-20 mm accumulation.

• Days 2-3 (0Z 21-Dec to 23-Dec)

Twin cyclone circulation weakens and shifts slightly east over the DYNAMO area, with twin vortices. Widespread convection and organized systems likely in both northern and southern DYNAMO arrays, most concentrated in the east end of the arrays.
Yesterday
Seychelles

**Yesterday**

**Today**
Yesterday

CSU Skew-T

61967, DDRG
7.33 72.4E
12Z 18 Dec. 2011

Note: Quick look data
wind barbs (knots)

Today

CSU Skew-T

61967, DDRG
7.33 72.4E
12Z 19 Dec. 2011

Note: Quick look data
wind barbs (knots)
Begin Forecast Graphics
ECMWF

Day 0

Day 1

Day 2

Day 3

Day 4

Day 5

Day 6
Day 1: 0Z 20-Dec to 21-Dec

IMD NEW DELHI WRF (27 Km) RAINFALL (mm) FORECAST (48 hr) based on 00 UTC of 19-12-2011 valid for 00 UTC of 21-12-2011

Total Precipitation (mm/h) and wind 850hPa

GFS fcst Precip for day 2 for: 20111221 from 00z
Day 3: OZ  22-Dec to 23-Dec

Total Precipitation (mm/h) and wind 850hPa

GFS fcst Precip for day 4 for: 20111221 from 00z
Statistical ECMWF ensemble (1 month forecast)

Dynamical GEFS
Day -1 to 3

MJO (5 day means)

Day 4-8

Equatorial Rossby (3 day means)

Day 1

Day 0

Kelvin (1 day means)

Day 2-4

Day 5-7