



The Madden Julian Index (MJO) currently lies in phase 7 with amplitude more than 1. It is likely to move into phase 8 with reduced amplitude towards the end of week 1. It would continue to propagate eastwards into phase 1 with amplitude less than 1 and remain there during the entire period of week 2. Hence the phase of MJO is not favorable for cyclogenesis over the North Indian Ocean (NIO) during next 2 weeks.

Southwest monsoon has further advanced into some more parts of south Arabian Sea (AS), entire Maldives - Comorin area and the mainland comprising of extreme southern peninsular India today and further advance into some more parts of the Oceanic regions are likely especially during week 2, based on the available dynamical model guidance.

Most of the numerical models including IMD GFS, NCEP GFS, GEFS & ECMWF are indicating likely formation of a Low pressure system upto the intensity of a Depression over northwest Bay of Bengal (BoB) off Odisha – West Bengal coasts during the initial part of week 2. NCUM & NEPS are indicating cyclogenesis during the same period, but over the Land area (interior Odisha). The genesis potential parameter (GPP) based on IMD GFS indicates a potential area over northeast BoB off Myanmar coast towards the end of week 1 & MME (CFSV₂) is indicating potential zone with 30-40 % probability for cyclogenesis only towards the end of week 2.

Considering all the above, it may be concluded that a monsoon Depression could form over northwest BoB with 'moderate' probability during the first half of week 2.

Verification of forecast issued during last two weeks:

The forecast issued on 20th May for week 2 (28.5.2021- 03.06.2021) and the forecast issued on 27th May for week 1(28.5.2021- 03.06.2021) indicated no cyclogenesis over the north Indian Ocean during the period. No cyclogenesis occurred during the period which could be correctly predicted 2 weeks in advance.