



A low pressure are formed over southeast Arabian Sea & adjoining Lakshadweep area today (13th May) at 0300 UTC. It became a Well Marked Low over Lakshadweep area and adjoin southeast Arabian Sea in the evening (1200 UTC)

The index of Madden Julian Oscillation (MJO) currently lies in phase 2 with amplitude less than 1 and will continue in same phase tomorrow also with amplitude gradually increasing. It will continue in same phase with amplitude becoming more than 1 from 15th till 18th with further eastward propagation during the subsequent forecast period. Thus, the phase of MJO would support enhancement of convective activity over the north Indian Ocean during weeks 1 & 2.

Most of the numerical models including IMD GFS, GEFS, ECMWF, NEPS, NCUM & NEPS, CGEPS (MME), GPP are indicating cyclogenesis out of the present well marked low pressure area (WML) over Arabian Sea during week 1. Models diverge in the genesis time as well as in the track. However, the initial north-northwestward movement of the system is in agreement by all the models. ECMWF and NCEP GFS are indicating likely formation of another Low pressure system over the Bay of Bengal (BoB) during week 2. NCEP GFS is showing its intensification & cyclogenesis over east central & adjoining northeast BoB towards the latter part of week 2.

Considering all the above, it may be concluded that the present WML which lies over southeast Arabian Sea & adjoining Lakshadweep area today is very likely to concentrate into a depression during next 24 hours and intensify into a cyclonic storm during subsequent 24 hours over east central & adjoining southeast Arabian Sea. It is very likely to intensify further and move north-northwestwards towards Gujarat and adjoining Pakistan coasts. It is likely to reach near Gujarat coast around 18th May evening. Thus there is High probability for cyclogenesis over east central Arabian Sea during week 1.

(a) Area likely to be affected: Southeast, east central & northeast Arabian Sea, Lakshadweep – Maldives area & Lakshadweep Islands, along & off Kerala, Karnataka, Goa, Maharashtra, Gujarat & south Pakistan coasts and also the coastal & adjoining districts of all these States.

(b) Impact expected:

- i. Very rough to High Seas, squally weather and Gale winds with wind speed reaching more than 70-80 kmph gusting to 90 kmph, around the system centre, affecting shipping vessels and fishing operations.**
- ii. Tidal waves could inundate the Islands of Lakshadweep on 14th & 15th May.**
- iii. Very heavy to extremely heavy rainfall causing flash floods & landslides over the coastal districts of Kerala, Karnataka & Goa during 14th – 16th May and Saurashtra, Kutch, south Pakistan & west Rajasthan during 18th – 20th May. This could affect normal life & interruptions to Road & Rail traffic temporarily.**
- iv. Thunder squalls & Lightning could cause adverse impact on Human & Livestock as well as damage to Loose & unsecured structures along the coast line.**

(c) Warnings / Advisory:

- Fishermen are advised not to venture into Arabian Sea during 13th – 18th May**
- Ships are advised to avoid the area**
- Ports along the west coast of India may take necessary pre-cautions.**
- Naval base operations may maintain necessary pre-cautions**
- Tourism activities may be restricted over the area specified for squally weather & rough Sea warning.**

There is also a ‘Low’ probability existing for cyclogenesis over east central & adjoining northeast Bay of Bengal towards the latter half of week 2.

Verification of forecast issued during last two weeks:

The forecast issued on 29th April for predicted no cyclogenesis and the forecast issued on 6th May for indicated low probability of cyclogenesis over central parts of south Arabian Sea during later part of week 2(14.5.2021- 20.05.2021). A low pressure area has formed over southeast Arabian Sea & adjoining Lakshadweep area on 13th May morning (0830 hrs IST), which could be correctly predicted two weeks in advance.

Next update: 20.05.2021