India Meteorological Department
Ministry of Earth Sciences
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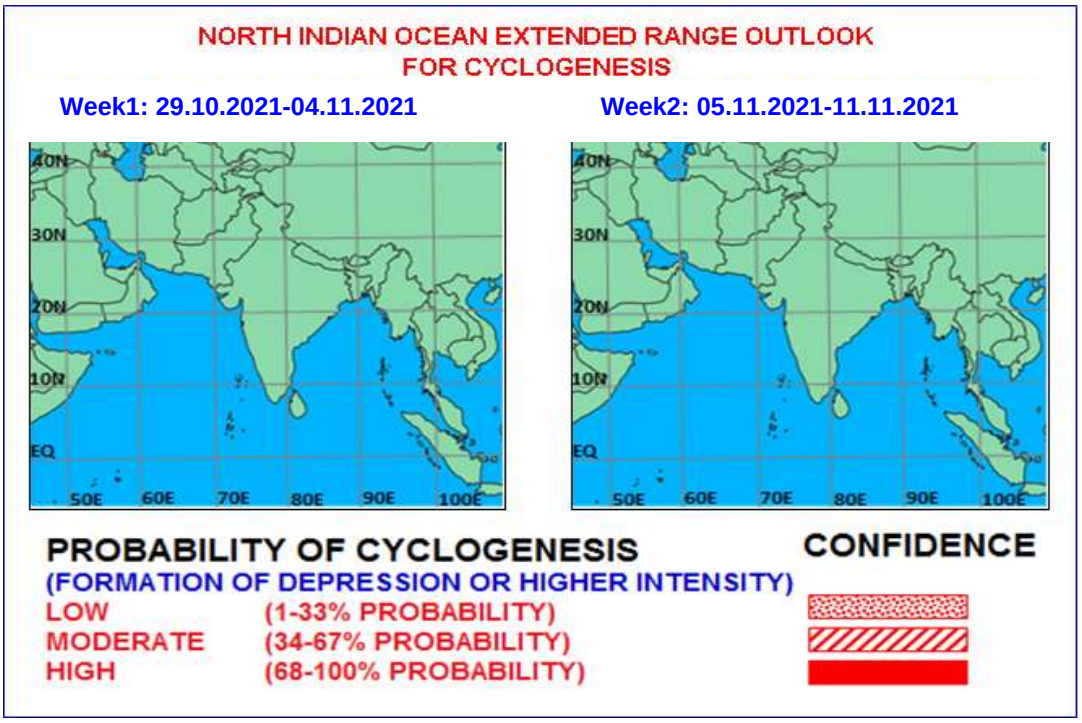

The Madden Julian Oscillation (MJO) index currently lies in Phase 1 with amplitude more than 1. It is likely to enter into Phase 2 with subdued amplitude towards the later part of week 1and propagate eastwards across Phase 2 during week 2. Thus, the phase of MJO will contribute to enhancement of convective activity over the Arabian Sea during Week 2.

At present, a low pressure area lay over southwest BoB off Sri Lanka coast. It is likely to move westwards during next 48 hours.

Most of the numerical models including IMD GFS, NCEP-GFS, GEFS, NCUM, NEPS and ECMWF are not indicating any cyclogenesis over the North Indian Ocean (NIO) during their respective forecast periods. IMD GPP index is also not indicating any significant zone for cyclogenesis over the region. However majority of these models are indicating feeble Low Pressure areas or easterly wave troughs moving east to west along the southern parts of the BoB and the Arabian Sea (AS) during the entire forecast period, with occasional amplification. MME $CFSV_2$ Model is indicating 70-80% probability of cyclogenesis over southwest BoB and Gulf of Mannar during 28th – 30th October.

In view of the above, no cyclogenesis is predicted over the north Indian Ocean during the forecast period. However, the current Low pressure Area located over southwest BoB off Sri Lanka coast is likely to move nearly westwards during next 3-4 days across Gulf of Mannar & Comorin area and emerge into southeast AS around 2nd November. Then it is likely to continue to move nearly westwards across south AS as an easterly wave perturbation towards western parts of AS during the subsequent 4-5 days. Also another Low Pressure area is likely to form over southeast BoB and move westwards without much intensification during 6th – 11th November 2021.

Verification of forecast issued during last two weeks:

The forecast issued on 14th October for week 2 (22.10.2021-28.10.2021) indicated likelihood of formation of a low pressure area over south Bay of Bengal and adjoining equatorial Indian Ocean during later part of week 2. Actually, the predicted low pressure area formed over central parts of south Bay of Bengal at 0300 UTC of 27th October and moved over to southwest Bay of Bengal off Sri Lanka coast on 28th October.

Next update: 04.11.2021