India Meteorological Department
Ministry of Earth Sciences
Mausam Bhawan, Lodhi Road, New Delhi-110003

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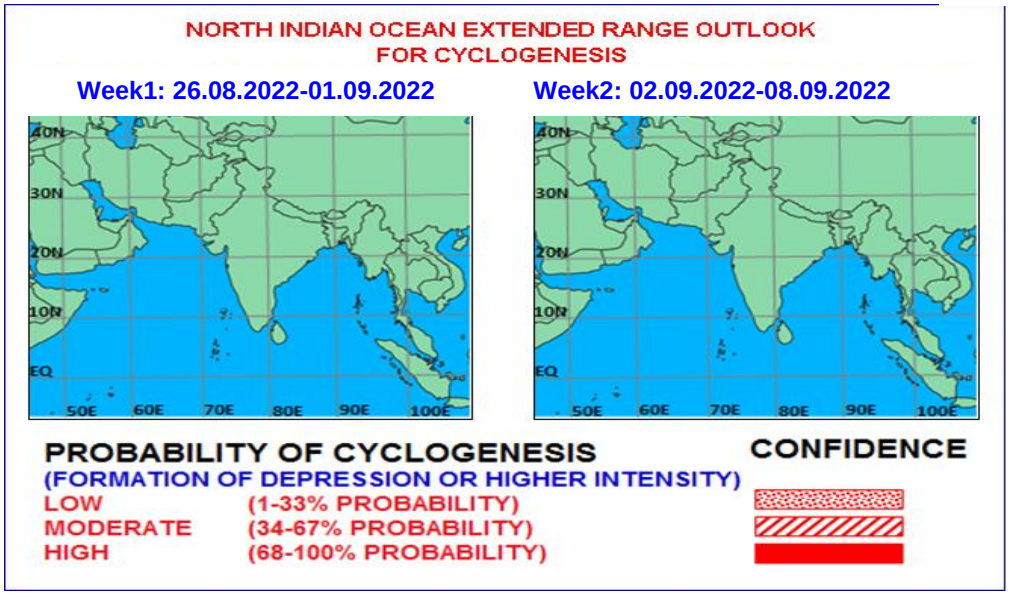

The Madden Julian Oscillation Index (MJO) currently lies in phase 2 with amplitude more than 1 and would continue in same phase with amplitude remaining more than 1 during beginning of week 1. Thereafter, it will continue in same phase with amplitude becoming less than 1 during remaining part of week 1. It would then move across phases 3, 4, 5 & 6 during week 2 with amplitude remaining less than 1.

Based on CFS forecast for equatorial waves, during week 1, easterlies (3-5 mps) are likely to prevail over entire BoB and over central & south India. During week 2 (3-5 mps) easterlies are likely to prevail over BoB and stronger (5-7 mps) easterlies are likely over central India. Hence equatorial waves are not likely to contribute towards cyclogenesis during the forecast period.

Current environmental conditions do not indicate any favourable zone for cyclogenesis over both the basins.

The guidance from various deterministic & ensemble numerical models including IMD GFS, NCEP GFS, NCUM , ECMWF, NEPS, GEFS & EMWF ensemble indicate no probable cyclogenesis over the North Indian Ocean during next 2 weeks. However, IMD GPP is indicating a potential zone for cyclogenesis over southwest BoB on 30th August with northwestwards movement towards Comorin Area & southeast Arabian Sea till 1st September. Similarly IMD GFS is indicating a cyclonic circulation over southwest BoB off Tamil Nadu coast on 30th August and with west-northwestward movement towards Kerala coast and no significant intensification.

Hence, considering the model guidance and environmental features, it is inferred that no cyclogenesis is likely over the North Indian Ocean during next 2 weeks.

Verification of forecast issued during last two weeks:

The forecast issued on 11th August for week 2 (19.08.2022 - 25.08.2022) indicated no probability of cyclogenesis over the North Indian Ocean region during week 2. The forecast issued on 18th August for week 1 (19.08.2022 - 25.08.2022) indicated the intensification of existing well marked low pressure area into a depression during beginning of week 1 over north BoB and adjoining West Bengal & Bangladesh coasts. Actually, the well marked low pressure area over North BoB intensified into a depression over northwest BoB on 19th August morning (0530 IST). It moved west-northwestwards, intensified into a Deep Depression around noon (1130 hours IST) of 19th and crossed West Bengal-Odisha coasts close to Digha around 1930 hrs IST. It further moved west-northwestwards and weakened into a depression on 21st morning (0530 hours IST) over northwest Chhattisgarh and Into a well marked low pressure area on 23rd forenoon (0830 hours IST) over Southwest Rajasthan.

The realized rainfall during 18th August, 2022 to 24th August 2022 from satellite-gauge merged data is presented in Fig.1.

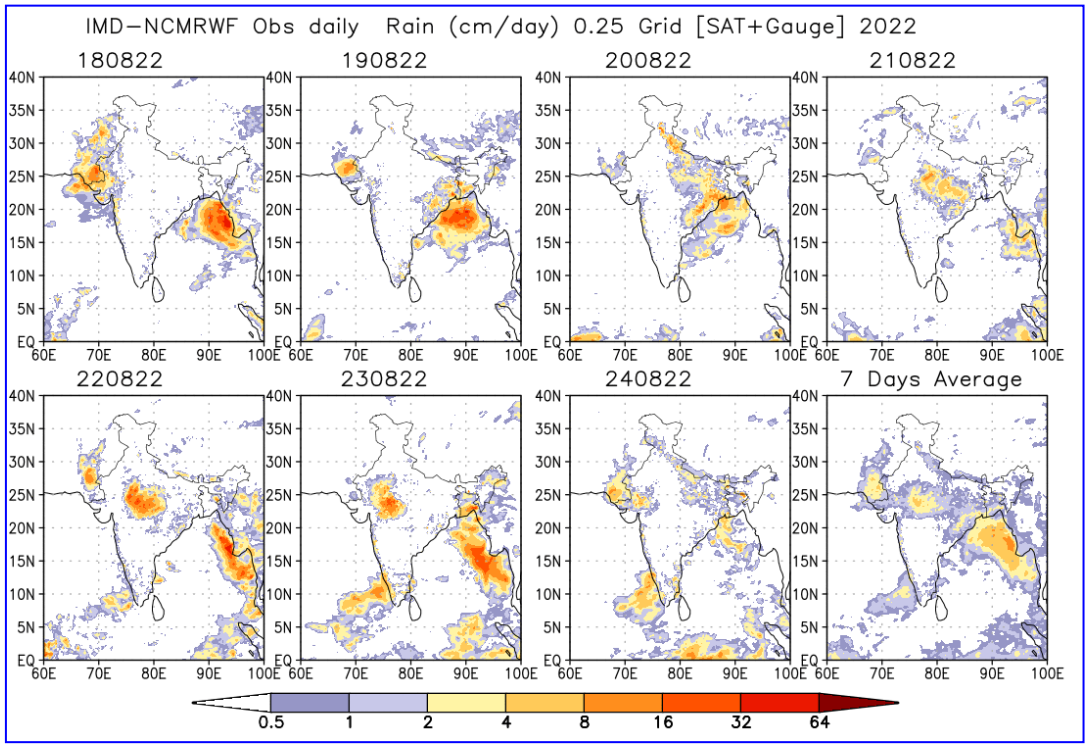

Fig.1: Rain gauge and satellite merged rainfall plots during 18th August to 24th August, 2022

Next update: 01.09.2022