REGIONAL SPECIALISED METEOROLOGICAL CENTRE -TROPICAL CYCLONES, NEW DELHI TROPICAL WEATHER OUTLOOK

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 01.10.2025

TROPICAL WEATHER OUTLOOK FOR THE NORTH INDIAN OCEAN (THE BAY OF BENGAL AND THE ARABIAN SEA) VALID FOR THE NEXT 168 HOURS ISSUED AT 0600 UTC OF 01.10.2025 BASED ON 0300 UTC OF 01.10.2025.

ARABIAN SEA:

Well marked low pressure area over northeast Arabian Sea and adjoining Saurashtra coast

The well-marked low-pressure area over Saurashtra coast adjoining Gulf of Kutch and northeast Arabian Sea lay over northeast Arabian Sea and adjoining Saurashtra coast at 0300 UTC of today, the 01st October, 2025. It is likely to move nearly westwards and intensify into a Depression during next 12 hours over northeast Arabian Sea. It would move west-southwestward thereafter towards northwest Arabian Sea.

Dwarka (42731) reported mean sea level pressure (MSLP) of 998.6 hPa, maximum sustained wind speed (MSW) of 140^0/03 kt, pressure departure (Dep) of -11.5 hPa and 24-hour pressure change(P24) of -1.2 hPa. Okha (42730) reported MSLP of 999.5 hPa, maximum sustained wind speed (MSW) of 090^0/04 kt, Dep of -11.5 hPa and P24 of -1.4 hPa. Porbandar (42830) reported MSLP of 999.8 hPa, maximum sustained wind speed (MSW) of 180^0/06 kt and Dep of -10.4 hPa. P24 of -1.0 hPa

Scattered to broken low and medium clouds with embedded intense to very intense convection lay over Saurashtra, north & adjoining central Arabian Sea (Minimum cloud top temperature 70-90^0C) and moderate to intense convection lay over Gulf of Kutch & Gujarat region (Minimum cloud top temperature 40-60^0C).

Scattered low and medium clouds with embedded isolated weak to moderate convection lay over rest parts of the Arabian Sea, Maldives and Comorin area.

***PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) DURING NEXT 168 HRS**

24 HOURS	24-48 HOURS	48-72 HOURS	72-96 HOURS	96-120 HOURS	120-144 HOURS	144-168 HOURS
MOD	MOD	MOD	NIL	NIL	NIL	NIL

*NOTE: EVERY 24HR FORECAST IS VALID UPTO 0300 UTC (0830 IST) OF NEXT DAY

Wind warning:

Squally wind speed reaching 40-50 gusting to 60 kmph is very likely to prevail over
Northeast Arabian Sea and along & off North Gujarat coast during 1 st to 3 rd October and decrease gradually thereafter.
Squally wind speed reaching 50-60 gusting to 70 kmph is very likely to prevail over Northeast & adjoining Northwest Arabian Sea during 2nd – 3rd October and over NW and adjoining NE AS during 4th -5th October.

Sea condition:

- Sea condition is very likely to be Rough to very rough over Northeast Arabian Sea & adjoining areas of northwest Arabian Sea and along and off North Gujarat coast; Gulf of Kutch during 1st to 3rd October and gradually improve thereafter.
- Sea condition is very likely to be rough to very rough over northwest and adjoining northeast Arabian Sea during 4th - 5th October

Fishermen warnings:
Fishermen are advised not to venture into

- Northeast Arabian Sea and along and off North Gujarat coast and Gulf of Kutch during 1st -3rd October
- Northwest Arabian Sea during 2nd – 5th October

BAY OF BENGAL:

Well marked low pressure area over Westcentral Bay of Bengal

An upper air cyclonic circulation formed over eastcentral Bay of Bengal & neighbourhood at 0900 UTC and under its influence, a low-pressure area formed over westcentral Bay of Bengal at 1200 UTC of yesterday, the 30th September 2025. It further intensified into a well marked low pressure area over the same region at 0000 UTC and moved north-northwestwards and lay over the same region at 0300UTC of today, the 01st October 2025. It is likely to continue to move north-northwestwards and concentrate into a Depression over the same region during next 12 hours. Continuing to move further north-northwestwards, it is likely to intensify further into a deep depression and cross South Odisha- North Andhra Pradesh coasts during early morning of 3rd October.

At 0300 UTC of 01st October, based on INSAT-3D imagery: Vortex over westcentral Bay of Bengal & neighbourhood centered within half a degree of 15.5N/86.8E. Intensity of the system is T1.0. Scattered to broken low and medium clouds with embedded intense to very intense convection lay over central & adjoining south Bay of Bengal, Coastal Andhra Pradesh, Andaman Sea, Arakan coast, Gulf of Martaban and Tenasserim coasts (Minimum cloud top temperature 70-90^{0}C).

***PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) DURING NEXT 168 HRS**

24 HOURS	24-48 HOURS	48-72 HOURS	72-96 HOURS	96-120 HOURS	120-144 HOURS	144-168 HOURS
HIGH	HIGH	-	NIL	NIL	NIL	NIL

*****NOTE: EVERY 24HR FORECAST IS VALID UPTO 0300 UTC (0830 IST) OF NEXT DAY

Wind Warning:

Bay of Bengal:

- Squally wind speed reaching 40-50 gusting to 60 kmph is very likely to prevail over central & adjoining north Bay of Bengal on 1st October. It would gradually increase becoming 50-60 gusting to 70 kmph over westcentral & adjoining northwest Bay of Bengal
- Squally wind speed reaching 40-50 gusting to 60 kmph is very likely to prevail along & off Andhra Pradesh-Odisha-West Bengal coasts from 2nd morning till 3rd October afternoon. The winds would gradually decrease thereafter.

Sea condition!:

- Sea condition is very likely to be rough over central & adjoining north Bay of Bengal on 1st October.
- Sea condition is very likely to be rough to very rough over westcentral & adjoining northwest Bay of Bengal and along & off Andhra Pradesh-Odisha-West Bengal coasts from 2nd morning till 3rd October afternoon. It would improve thereafter.

Fishermen warnings!:

Fishermen are advised not to venture into

- Central & adjoining north Bay of Bengal on 1st October.
- Westcentral & adjoining northwest Bay of Bengal and along & off Andhra Pradesh-Odisha-West Bengal coasts from 2nd morning till 3rd October afternoon.
- Fisherman out at sea are advised to return to coast immediately.

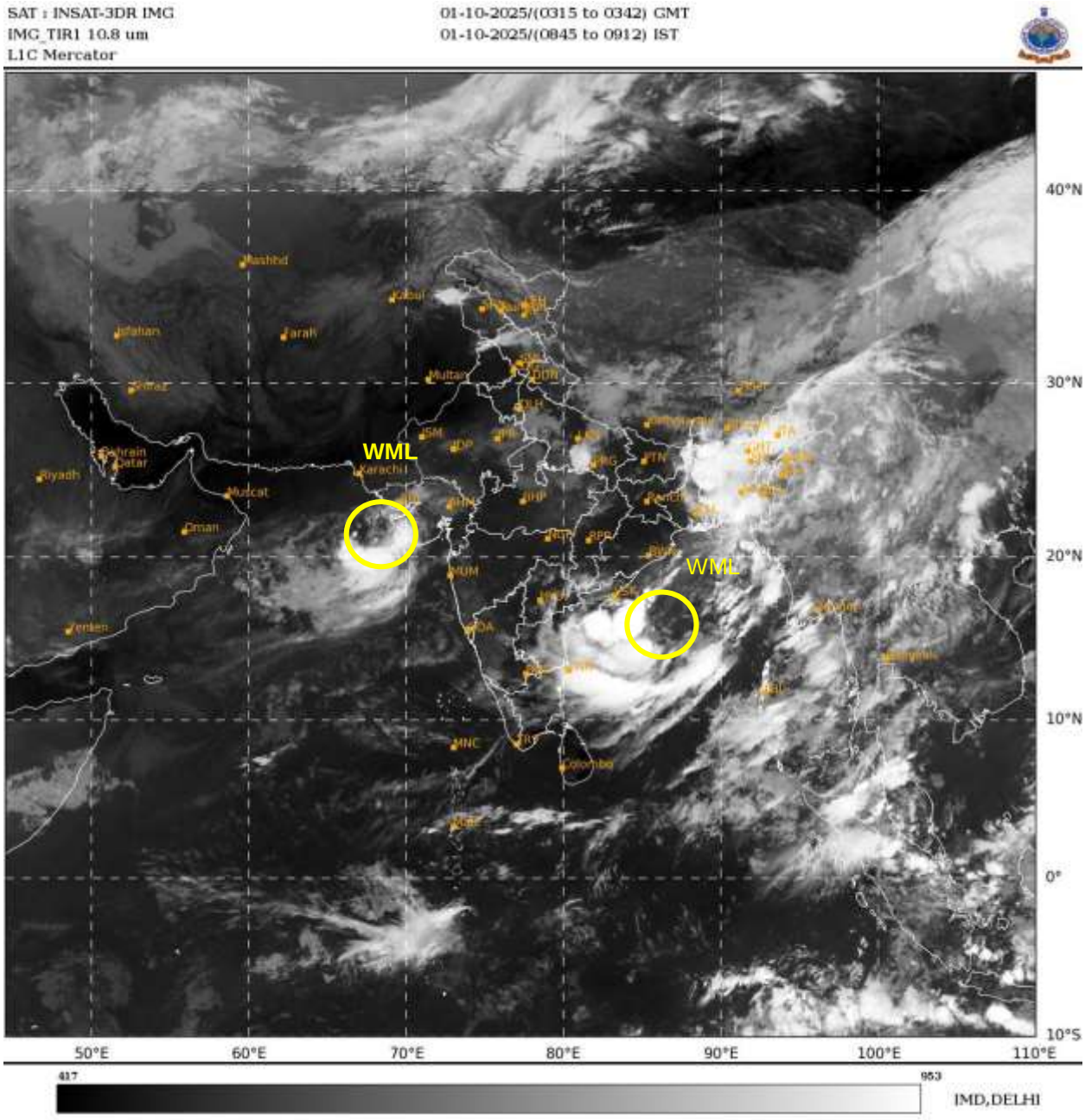
REMARKS:

As per ECMM model, Madden Julian Oscillation (MJO) is currently in phase 2 with amplitude greater than 1. It is likely to continue in same phase with gradually increasing amplitude during next 4-5 days. MJO phase is favourable for enhancement of convective activity over the Arabian Sea (AS) during next 4-5 days. The guidance from the NCICS CFS model is indicating extension of westerly wind anomaly (5-7 mps) over south AS across South Peninsular India and south BoB alongwith Equatorial Rossby wave (ERW), MJO and Kelvin wave (KW) during next 3 days. Further, it is indicating, strong easterly wind anomaly (5-7 mps) to its north over northwest India. All these features indicate favourable environment for maintenance of intensity of system over the Gujarat and Northeast Arabian Sea.

System over AS : As per guidance from CIMSS, the low level vorticity is about 80-90 X 10^{-6} s^{-1} around the system at 850 hPa extending upto 500 hPa level. The low level convergence is around 10 X 10^{-6} s^{-1} to the southwest of system center. Upper level divergence is about 20 X 10^{-6} s^{-1} to the southwest of system center. The east-southeasterlies prevailing in the middle-upper tropospheric levels are steering the system nearly west-northwestwards. Mid-level vertical wind shear (VWS) of horizontal wind is low to moderate (05-10 kts) near the system center and to the west of the system center and anticyclonic over the system area and along the predicted path, which is favourable for maintenance of intensity of this system while moving west-northwestwards initially towards northeast Arabian Sea and west–southwestwards movement thereafter towards northwest Arabian Sea.

System over BoB: As per guidance from CIMSS, the low level vorticity is about 150-160 X 10^{-6} s^{-1} around the system at 850 hPa extending upto 500 hPa level. The low level convergence is around 30-40 X 10^{-6} s^{-1} to the southwest of system center. Upper level divergence is about 30 X 10^{-6} s^{-1} to the southwest of system center. The east-southeasterlies prevailing in the middle-upper tropospheric levels are steering the system nearly west-northwestwards. Mid-level vertical wind shear (VWS) of horizontal wind is low to moderate (05-15 kts) near the system center and to the southwest of the system center and anticyclonic over the system area and along the predicted path, which is favourable for maintenance of intensity of this system.

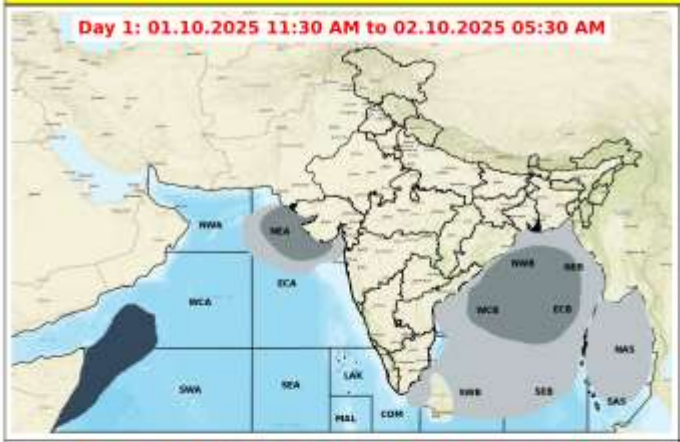
(DR. D R PATTANAIK)
Head RSMC



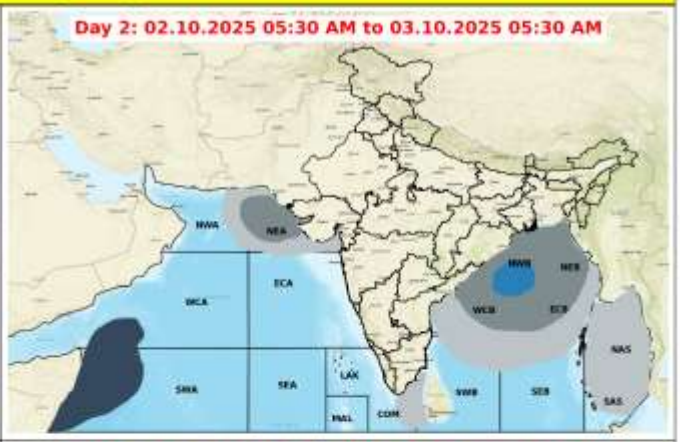
WML: Well Marked low pressure area

Fishermen Warning Graphics

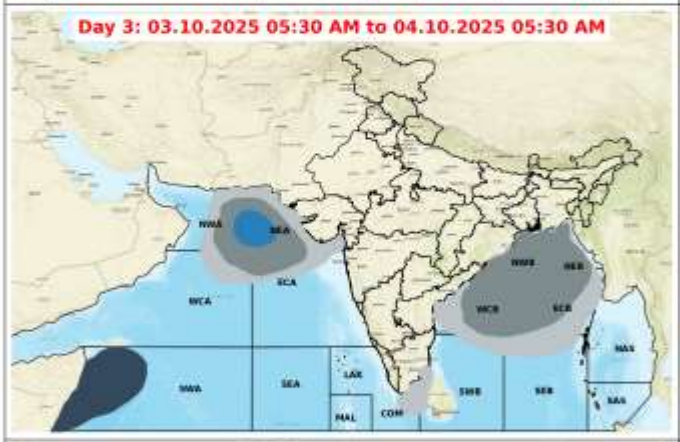
Day 1: 01.10.2025 11:30 AM to 02.10.2025 05:30 AM



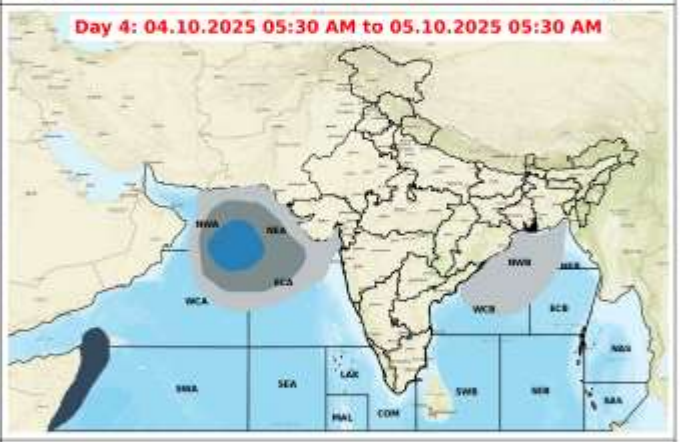
Day 2: 02.10.2025 05:30 AM to 03.10.2025 05:30 AM



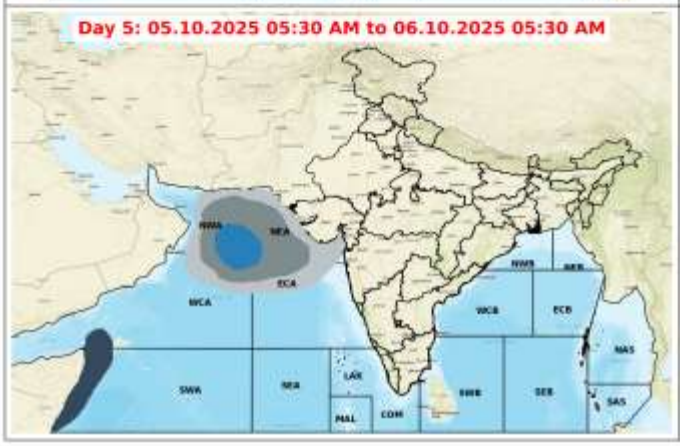
Day 3: 03.10.2025 05:30 AM to 04.10.2025 05:30 AM



Day 4: 04.10.2025 05:30 AM to 05.10.2025 05:30 AM



Day 5: 05.10.2025 05:30 AM to 06.10.2025 05:30 AM



Legend

- Squally Weather with wind speed 35-45 kmph gusting to 55 kmph
- Squally Weather with wind speed 40-50 kmph gusting to 60 kmph
- Squally Weather with wind speed 45-55 kmph gusting to 65 kmph
- Squally wind with speed 45-55 kmph gusting to 65 kmph
- Squally wind with speed 50-60 kmph gusting to 70 kmph
- Squally wind with speed 55-65 kmph gusting to 75 kmph
- CS with Gale winds with speed 60-80 kmph gusting to 90 kmph
- SCS with Gale wind speed 90-110 kmph gusting to 120 kmph
- VSCS with Gale wind speed 120-165 kmph gusting to 185 kmph
- ESCS with Gale wind speed 165-220 kmph gusting to 245 kmph

Fishermen are advised not to venture into the marked areas.