



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

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 30.09.2025

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 30.09.2025 BASED ON 0300 UTC OF 30.09.2025.

ARABIAN SEA:

Well marked low pressure area over Gulf of Kutch and neighbourhood

Yesterday's well-marked low-pressure area over Gulf of Cambay and neighbourhood lay over Saurashtra & adjoining Gulf of Kutch at 0000 UTC and moved west-northwestwards and lay over Gulf of Kutch at 0300 UTC of today, the 30th September 2025 and the associated cyclonic circulation extended upto 7.6 km above mean sea level tilting southwestwards with height.

It is likely to continue to move northwestwards across Kutch and neighbourhood during next 12 hours and emerge into northeast Arabian Sea off north Gujarat coast thereafter.

There is a possibility of its intensification into a depression around the time of emergence into the northeast Arabian Sea and west-southwestward movement thereafter towards northwest Arabian Sea.

The estimated center is 22.7N/69.5 E with estimated central pressure as 998 hPa. Associated maximum sustained wind speed is 15-20 kt gusting to 30 kt.

Dwarka (42731) reported mean sea level pressure (MSLP) of 999.8 hPa, maximum sustained wind speed (MSW) of 140⁰/03 kt, pressure departure (Dep) of -10.3 hPa and 24-hour pressure change(P24) of -1.3 hPa. Naliya (42631) reported MSLP of 1000.0 hPa, maximum sustained wind speed (MSW) of 000⁰/00 kt, Dep of -10.0 hPa and P24 of -1.5 hPa. Porbandar (42830) reported MSLP of 1000.8 hPa, maximum sustained wind speed (MSW) of 160⁰/08 kt and Dep of -9.4 hPa. P24 of -0.6 hPa

Scattered to broken low and medium clouds with embedded intense to very intense convection lay over north & adjoining central Arabian Sea and Gulf of Kutch adjoining Saurashtra with minimum cloud top temperature (70-90°C) and moderate to intense convection lay over central Arabian Sea. Scattered low and medium clouds with embedded isolated weak to moderate convection lay over Gulf of Cambay, south Arabian Sea, Lakshadweep Islands area, Maldives and Comorin area.

The system is also monitored by Doppler Weather Radar Bhuj. 0300 UTC wind analysis indicate backing of winds over Kutch region indicating cold air advection.

***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
LOW	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 with rough to very rough sea condition is very likely to prevail over Northeast Arabian Sea and along & off North Gujarat coast and Gulf of Kutch during 30th September to 3rd October and gradually decrease 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 and along & off North Gujarat coast & Gulf of Kutch during 30th September to 3rd October and gradually improve thereafter.
- ❖ Sea condition is very likely to be very rough over Northeast & adjoining Northwest Arabian Sea and along & off North Gujarat coast and Gulf of Kutch during 2nd – 3rd October and over northwest & adjoining northeast Arabian Sea during 4th-5th October.

Fishermen warnings:

Fishermen are advised not to venture into

- ❖ Northeast Arabian Sea and along & off North Gujarat coast and Gulf of Kutch during 30th September to 3rd October
- ❖ Northeast & adjoining Northwest Arabian Sea during 2nd – 3rd October and into northwest & adjoining northeast Arabian Sea during 4th-5th October.

BAY OF BENGAL:

An upper air cyclonic circulation is likely to emerge into north Andaman Sea today, the 30th September, 2025. Under its influence a low-pressure area is likely to form over central parts of Bay of Bengal around 01st October 2025. It is likely to move west-northwestwards and intensify into a Depression over west central and adjoining northwest Bay of Bengal around 2nd October. It is likely to continue to move west-northwestwards and cross south Odisha-North Andhra Pradesh coasts around morning hours of 3rd October.

Scattered to broken low and medium clouds with embedded intense to very intense convection lay over northeast, central & south Bay of Bengal, Andaman Sea, Arakan coast, Gulf of Martaban and Tenasserim coasts.

***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
NIL	LOW	MOD	MOD	NIL	NIL	NIL

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

Wind Warning:

- ❖ Squally weather with wind speed reaching 35-45 gusting to 55 kmph is very likely to prevail over North Andaman Sea and Eastcentral Bay of Bengal on 30th September.
- ❖ Squally wind speed reaching 35-45 gusting to 55 kmph is very likely to prevail over central & adjoining north Bay of Bengal on 1st October.

- ❖ It would gradually increase becoming 40-50 gusting to 60 kmph over westcentral & adjoining northwest Bay of Bengal and 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 moderate to rough over North Andaman Sea and Eastcentral Bay of Bengal on 30th September and 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:

- ❖ North Andaman Sea and Eastcentral Bay of Bengal on 30th September, central & adjoining north Bay of Bengal on 1st October and
- ❖ Westcentral & adjoining northwest Bay of Bengal and along & off Andhra Pradesh-Odisha-West Bengal coasts from 2nd morning till 3rd October afternoon.

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.

As per guidance from CIMSS, the low level vorticity is about $80-90 \times 10^{-6} \text{ s}^{-1}$ around the system at 850 hPa extending upto 500 hPa level. The low level convergence is around $20 \times 10^{-6} \text{ s}^{-1}$ to the southwest of system center. Upper level divergence is about $20 \times 10^{-6} \text{ s}^{-1}$ to the west 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 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.

Most of the models (IMD GFS, ECMWF, NCEP and NCUM(G)) are indicating west-northwestwards movement across Kutch and neighbourhood during next 12 hours and emerge into northeast Arabian Sea off north Gujarat coast thereafter. Most of the models are indicating possibility of its intensification into a depression around the time of emergence into the northeast Arabian Sea and west-southwestward movement thereafter towards northwest Arabian Sea.

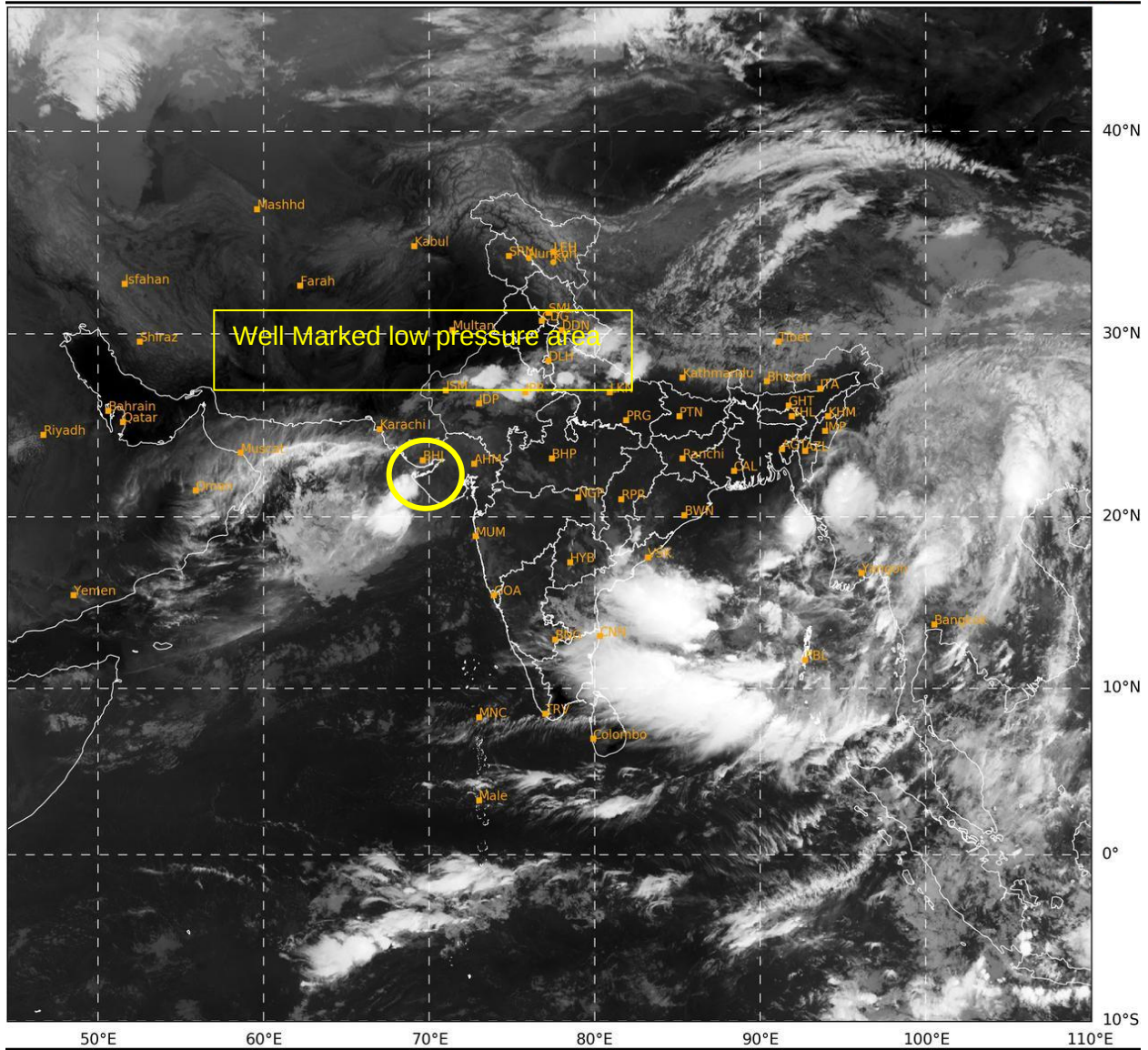
All models (IMD GFS, ECMWF, NCEP and NCUM(G)) are indicating emergence of an upper air cyclonic circulation into north Andaman Sea today, the 30th September, 2025. Under its influence all models are indicating formation of a low-pressure area over central parts of Bay of Bengal around 01st October 2025 with slight variations in the timing. All models are indicating west northwestwards movement and intensification into a Depression over westcentral and adjoining northwest Bay of Bengal around 2nd October. As per the forecast available from different models the system will continue to move northwestwards and cross south Odisha-North Andhra Pradesh coasts around morning hours of 3rd October with ECMWF model is indicating crossing towards north Odisha coast.

Both the systems are under continuous Watch.

(M. Sharma)
Scientist-E, RSMC New Delhi

SAT : INSAT-3DR IMG
IMG_TIR1 10.8 um
L1C Mercator

30-09-2025/(0315 to 0342) GMT
30-09-2025/(0845 to 0912) IST



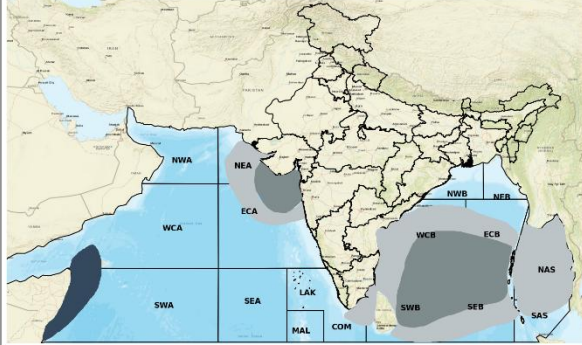
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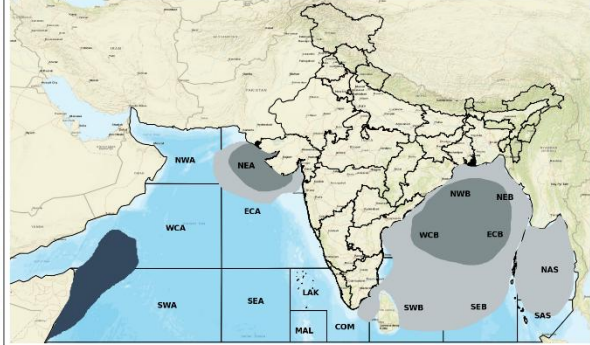
IMD, DELHI

Fishermen Warning Graphics

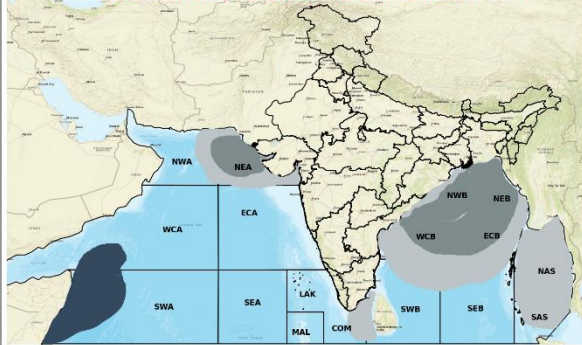
Day 1: 30.09.2025 11:30 AM to 01.10.2025 05:30 AM



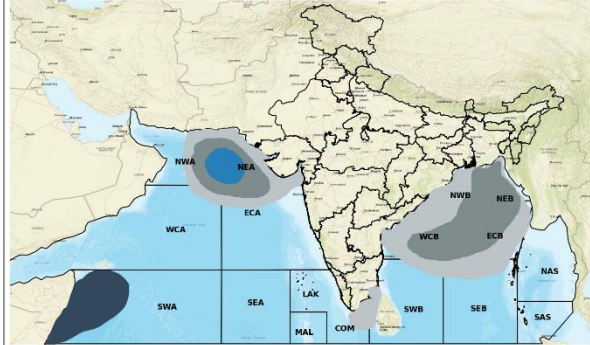
Day 2: 01.10.2025 05:30 AM to 02.10.2025 05:30 AM



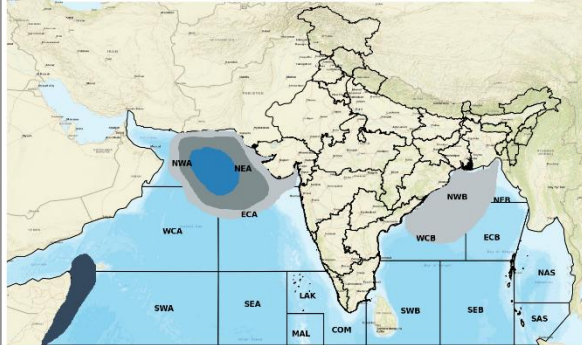
Day 3: 02.10.2025 05:30 AM to 03.10.2025 05:30 AM



Day 4: 03.10.2025 05:30 AM to 04.10.2025 05:30 AM



Day 5: 04.10.2025 05:30 AM to 05.10.2025 05:30 AM



Legend

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

Fishermen are advised not to venture into the marked areas.