



REGIONAL SPECIALISED METEOROLOGICAL CENTRE -TROPICAL CYCLONES, NEW DELHI
TROPICAL CYCLONE ADVISORY

DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 01.12.2025

FROM: RSMC –TROPICAL CYCLONES, NEW DELHI
TO: STORM WARNING CENTRE, NAYPYITAW (MYANMAR)
STORM WARNING CENTRE, BANGKOK (THAILAND)
STORM WARNING CENTRE, COLOMBO (SRILANKA)
STORM WARNING CENTRE, DHAKA (BANGLADESH)
STORM WARNING CENTRE, KARACHI (PAKISTAN)
METEOROLOGICAL OFFICE, MALE (MALDIVES)
OMAN METEOROLOGICAL DEPARTMENT,
MUSCAT (THROUGH RTH JEDDAH)
YEMEN METEOROLOGICAL SERVICES,
REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)
NATIONAL CENTRE FOR METEOROLOGY, UAE (THROUGH RTH JEDDAH)
PRESIDENCY OF METEOROLOGY AND ENVIRONMENT,
SAUDI ARABIA (THROUGH RTH JEDDAH)
IRAN METEOROLOGICAL ORGANISATION, (THROUGH RTH JEDDAH)
QATAR METEOROLOGICAL DEPARTMENT (THROUGH RTH JEDDAH)

TROPICAL CYCLONE ADVISORY NO. 38 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 2030 UTC OF 30.11.2025 BASED ON 1800 UTC OF 30.11.2025

Deep Depression (Remnant of Cyclonic Storm Ditwah) over southwest Bay of Bengal and adjoining North Tamil Nadu-Puducherry coasts:

The Deep Depression (**Remnant of Cyclonic Storm Ditwah**) over southwest Bay of Bengal and adjoining north Tamil Nadu-Puducherry coasts moved northwards with the speed of 10 kmph during past 6 hours and lay centered at 1800 UTC of the 30th November 2025 over the same region, near latitude 12.3°N and longitude 80.6°E, about 90 km south-southeast of Chennai (42379), 90 km east-southeast of Puducherry (43331), 110 km east-northeast of Cuddalore (43329), 180 km north-northeast of Karaikal (43346).

The minimum distance of the centre of the deep depression from north Tamil Nadu-Puducherry coasts is about 50 km.

It is very likely to move nearly northwards parallel to North Tamil Nadu-Puducherry coasts and weaken gradually further into a depression by 0600 UTC of the 01st December. The system will be centered over southwest Bay of Bengal within a minimum distance of 30 km by 0000 UTC of the 01st December.

The system is being monitored by the Doppler Weather Radars (DWRs) at Karaikal and Chennai.

Forecast track and intensity are given in Table below

Date/Time (UTC)	Position (Lat. °N/ Long. °E)	Maximum Sustained Surface Wind Speed (Kmph)	Category Of Cyclonic Disturbance
30.11.25/1800	12.3/80.6	55-65 gusting to 75	Deep Depression
01.12.25/0000	12.8/80.6	50-60 gusting to 70	Deep Depression
01.12.25/0600	13.2/80.6	45-55 gusting to 65	Depression

As per INSAT 3DR at 1800 UTC, the intensity is characterized as T2.0/2.5. The associated scattered to broken low and medium clouds with embedded intense to very intense convection lay over westcentral and adjoining coastal Andhra Pradesh, Tamil Nadu, Rayalaseema, South-interior Karnataka and Kerala (minimum CTT minus 70-90 degree Celsius). Moderate to intense convection lay over Southwest Bay of Bengal, south Chhattisgarh, south Odisha, Telengana, Rayalseema, Coastal Andhra Pradesh, South Interior Karnataka, North Tamil Nadu, Palk Strait, Gulf of Mannar, Sri Lanka and rest of southwest Bay of Bengal (minimum CTT minus 50-70 degree Celsius).

The estimated central pressure is about 1004 hPa. The associated maximum sustained wind speed is about 30 knots gusting upto 40 knots.

Sea condition is very rough to rough over southwest Bay of Bengal & adjoining north Sri Lanka, Gulf of Mannar, Comorin area and along & off Tamil Nadu-Puducherry coasts.

REMARKS:

The guidance from various models indicates that the Madden Julian Oscillation (MJO) index is presently in phase 7 with amplitude more than 1 and is likely to continue in same phase during next 5 days. The sea surface temperature (SST) is around 28⁰C over southwest Bay of Bengal and along & off Sri Lanka, Tamil Nadu & South Andhra Pradesh coast along the forecast track. The SST reduces to the north (North of 15⁰N) being 27⁰C. It is also less over Gulf of Mannar and adjoining southwest Bay of Bengal near Sri-Lanka Coast due to continuous heavy rain over the region. The cooler SST in these regions would reduce the convection in the region and hence convective cloud will be mostly limited between 10-15⁰N. The spiral band of convective clouds over southeast and adjoining eastcentral Bay of Bengal is associated with higher SST of 29⁰C over the region.

The guidance from NCICS model indicates westerly wind anomaly (7-9 mps) along with prevalence of Equatorial Rossby Wave (ERW), Kelvin wave (KW) and low frequency background wave (LW) over the southern parts of the Bay of Bengal (BoB) and easterly wind anomaly (3-5 mps) to its north over southwest BoB near Tamil Nadu-Andhra Pradesh coasts on 30th November. Thereafter, slight weakening of these features is indicated.

The Low level relative vorticity at 850 hPa has decreased and is about $150 \times 10^{-6} \text{ s}^{-1}$ over southwest Bay of Bengal to the south of system centre. Vertically the positive vorticity zone is extending up to 500 hPa and tilting slightly southwestwards with height. Upper-level is around $10 \times 10^{-6} \text{ s}^{-1}$ to the south of system centre. Low-level convergence is also around $10 \times 10^{-6} \text{ s}^{-1}$ to the north of system centre. Mid layer shear is around (15-25 kts) and anti-cyclonic over the system area. The deep layer wind shear of horizontal wind is moderate to high (20-30 kt) and anti-cyclonic over the system area. Both mid and deep layer wind shear show increasing trend, leading to weakening of the system. Cold and dry air incursion has also reached upto northeast sector.

As the system moves northwards, it may encounter higher wind shear over southwest & adjoining Westcentral BoB and along & off North Tamil Nadu-Andhra Pradesh coasts. Cold and dry air incursion from the southern peninsular is increasing and has reached upto northeast sector. Various environmental features are gradually becoming unfavourable. There is reduced convergence, divergence and vorticity and increase in wind shear over the system area. Hence, the system will gradually weaken into a depression during next 12 hours.

There is good consensus among various models with respect to northwards movement of the system across southwest Bay of Bengal off Tamil Nadu, Puducherry and adjoining south Andhra Pradesh coasts on 1st December. There is also consensus among various models wrt gradual weakening of the system into a depression by 0600 UTC of 1st December.

The forecast is based on the initial conditions and the consensus model guidance.

- (i) Confidence level in estimation of current location of Cyclonic Storm: High
- (ii) Confidence level in estimation of estimation of current intensity: High
- (iii) Confidence level in forecast track: High
- (iv) Confidence level in forecast intensity: High

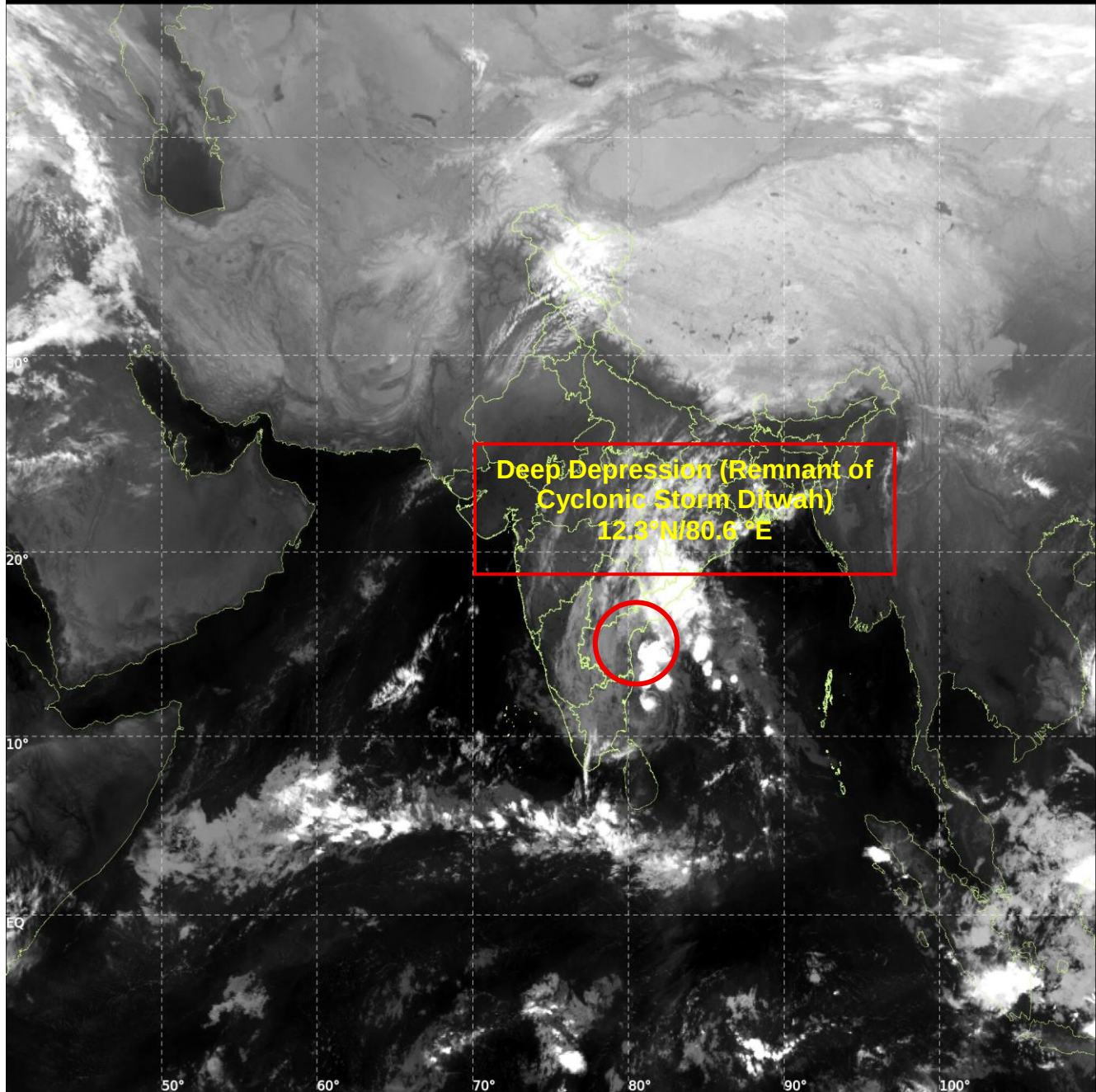
Shibin Balakrishnan
Scientist-D
RSMC, New Delhi



INSAT-3DS IMG, Thermal Infrared1 Count @ 10.83 μm
GMT:30-11-2025/(1900-1927) IST:01-12-2025/(0030-0057)
L1C MERCATOR (LINEAR STRETCH: 1%)

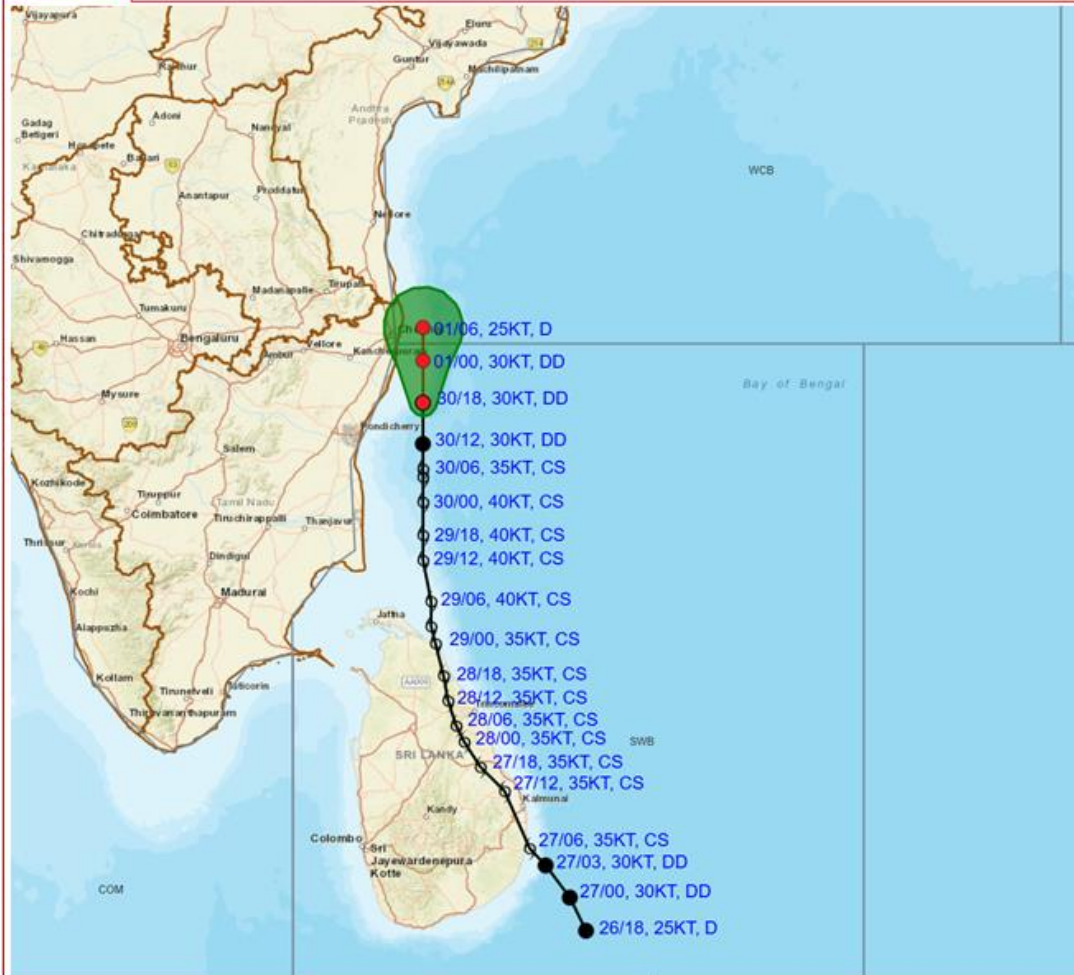
508

844





OBSERVED AND FORECAST TRACK OF DEEP DEPRESSION (REMNANT OF CYCLONIC STORM "DITWAH") OVER SOUTHWEST BAY OF BENGAL AND ADJOINING NORTH TAMILNADU-PUDUCHERRY COASTS BASED ON 1800 UTC (2330 Hrs. IST) OF 30TH NOVEMBER 2025



DATE/TIME IN UTC

IST=UTC + 0530

L: LOW PRESSURE AREA

WML: WELL MARKED LOW PRESSURE AREA

D: DEPRESSION (17-27 KT)

DD: DEEP DEPRESSION (28-33 KT)

CS: CYCLONIC STORM (34-47 KT)

SCS: SEVERE CYCLONIC STORM (48-63KT)

VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)

ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

SuCS: SUPER CYCLONIC STORM $\geq$ 120 KT)

● LESS THAN 34 KT

○ 34-47 KT

● $\geq$ 48 KT

— OBSERVED TRACK

— FORECAST TRACK

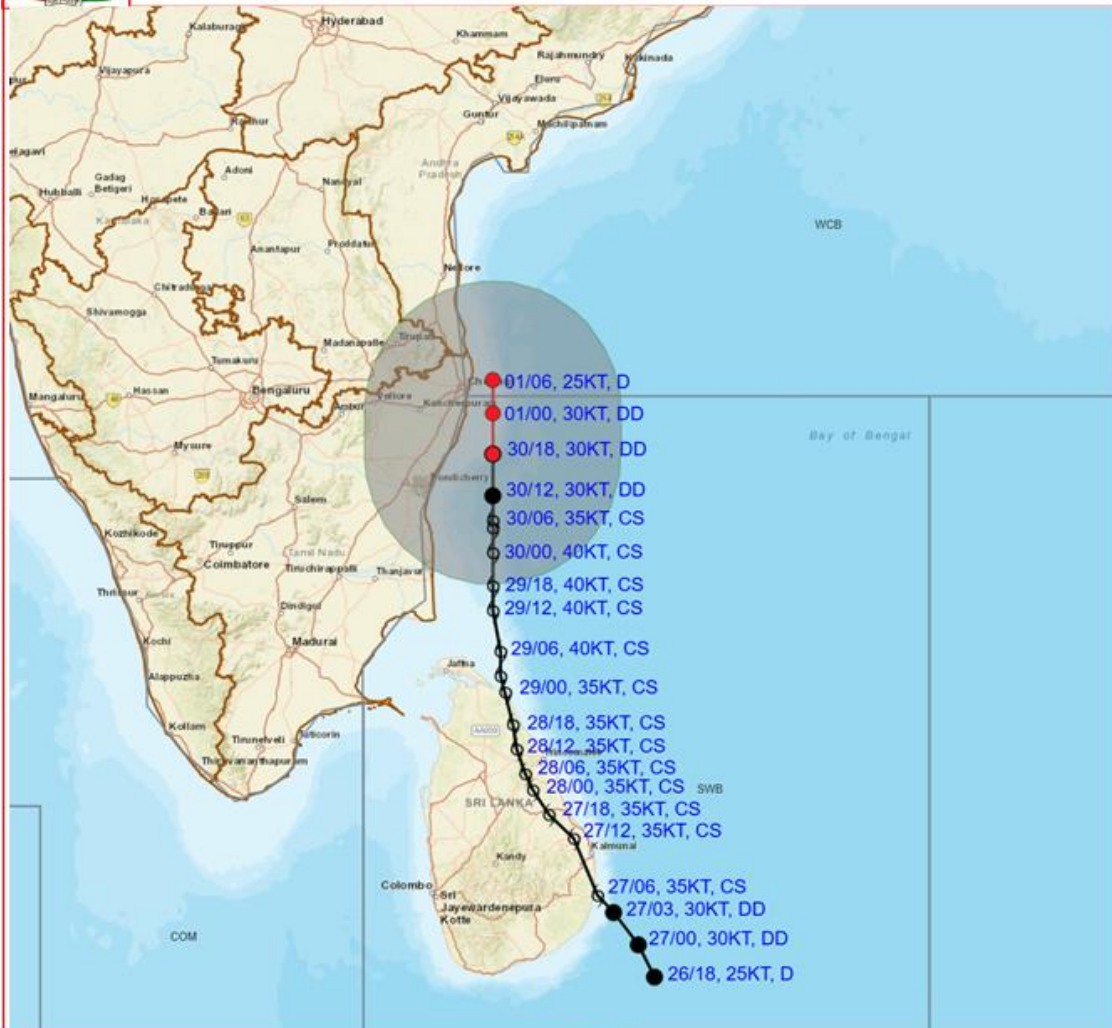
▲ CONE OF UNCERTAINTY

Forecast distance (km) and direction of the centre from nearest 5 coastal stations

Forecast Date and Time	Station 1	Station 2	Station 3	Station 4	Station 5
30.11.25/1800	CHENNAI/MINAMBAKKAM (90,SSE)	MO PONDICHERRY (93,ENE)	NUMGAMBAKKAM (96,SSE)	CUDDALORE (108,ENE)	PARANGIPETTAI (127,NE)
01.12.25/0000	CHENNAI/MINAMBAKKAM (50,ESE)	NUMGAMBAKKAM (53,SE)	TIRUTTANI (122,ESE)	MO PONDICHERRY (126,NE)	TIRUPATHI (146,SE)
01.12.25/0600	NUMGAMBAKKAM (46,ENE)	CHENNAI/MINAMBAKKAM (50,ENE)	TIRUTTANI (116,E)	TIRUPATHI (122,ESE)	NELLORE (154,SSE)



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEEP DEPRESSION (REMNANT OF CYCLONIC STORM "DITWAH") OVER SOUTHWEST BAY OF BENGAL AND ADJOINING NORTH TAMILNADU-PUDUCHERRY COASTS BASED ON 1800 UTC (2330 Hrs. IST) OF 30TH NOVEMBER 2025



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ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

SuCS: SUPER CYCLONIC STORM (≥ 120 KT)

● LESS THAN 34 KT

○ 34-47 KT

● ≥ 48 KT

— OBSERVED TRACK

— FORECAST TRACK

— CONE OF UNCERTAINTY

AREA OF MAXIMUM SUSTAINED WIND SPEED:

28-33 KT (52-61 KMPH)

34-49 KT (62-91 KMPH)

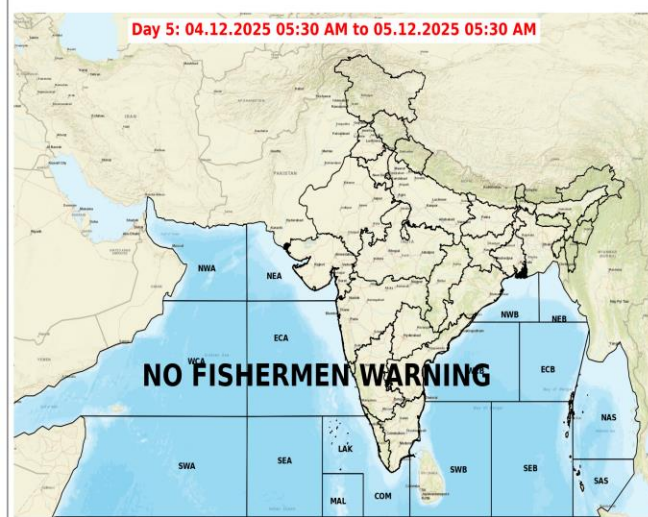
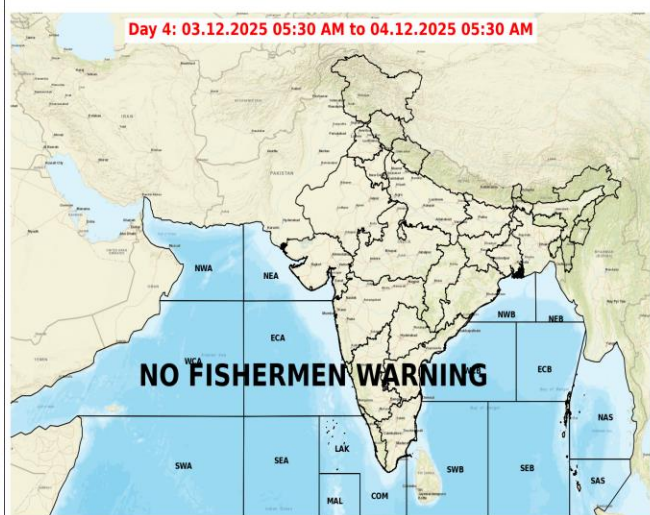
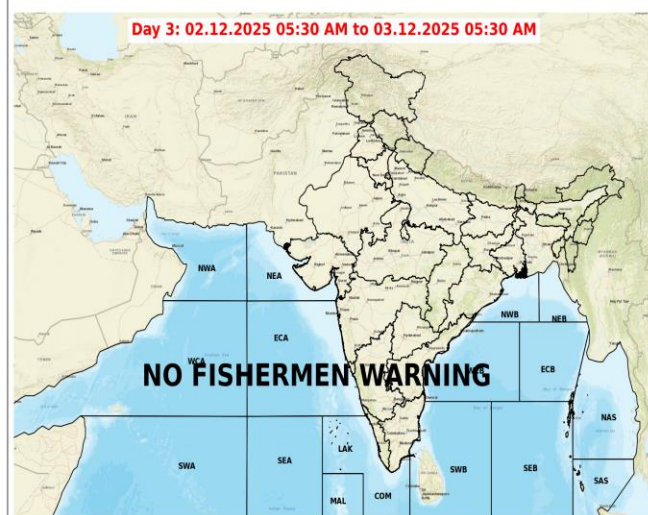
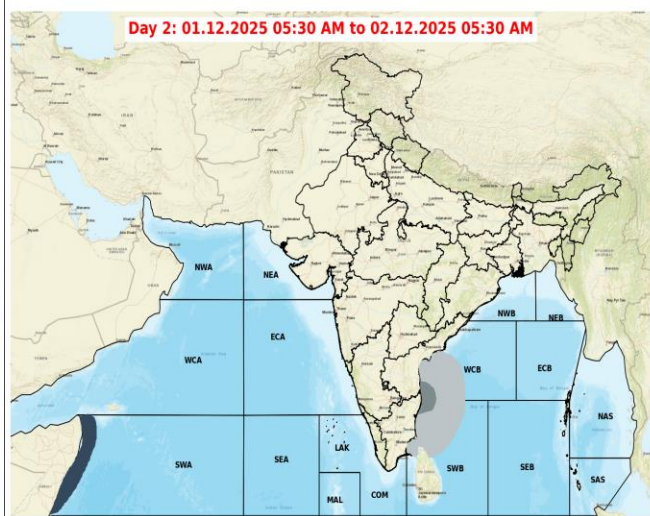
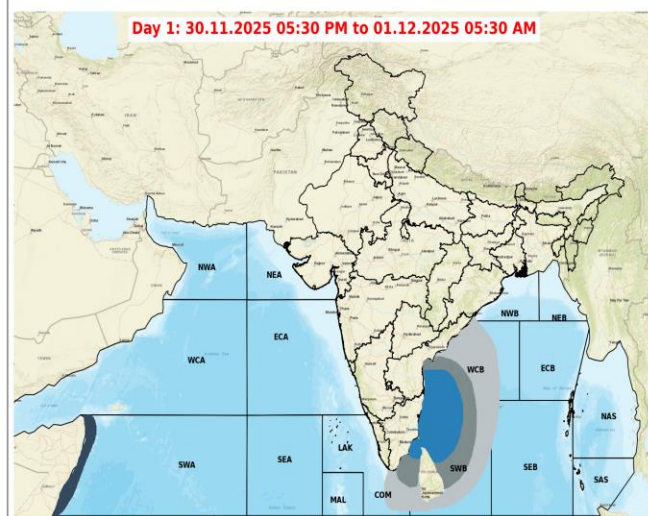
50-63 KT (92-117 KMPH)

≥ 64 KT (≥ 118 KMPH)

IMPACT OVER THE SEA

MSW (knot/kmph)	Impact	Action
28-33 (52-61)	Very rough seas	Total suspension of fishing operations
34-49 (62-91)	High to very high seas	Total suspension of fishing operations
50-63 (92-117)	Very high seas	Total suspension of fishing operations
≥ 64 (≥ 118)	Phenomenal	Total suspension of fishing operations

Fishermen Warning Graphics



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.