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

DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 30.11.2025
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. 35 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0930 UTC OF 30.11.2025 BASED ON 0600 UTC OF 30.11.2025

Cyclonic Storm Ditwah [Pronunciation: Ditwah] over southwest Bay of Bengal and adjoining Tamil Nadu-Puducherry coasts:

The **Cyclonic Storm Ditwah [Pronunciation: Ditwah]** over southwest Bay of Bengal and adjoining north Tamil Nadu-Puducherry coasts moved nearly northwards with the speed of 7 kmph during past 6 hours and lay centered at 0600 UTC of today, the 30th November 2025 over the same region, near latitude 11.5°N and longitude 80.6°E, , about 100 km east-southeast of Cuddalore (India), 110 km northeast of Karaikal (India), 100 km east-southeast of Puducherry (India), 150 km north-northeast of Vedaranniyam (India) and 170 km south-southeast of Chennai (India). **The minimum distance of the centre of the cyclone from north Tamil Nadu-Puducherry coasts is about 80km.**

It is very likely to move nearly northwards parallel to North Tamil Nadu-Puducherry coasts during next 24 hours. While moving northwards the cyclonic storm will be centered over southwest Bay of Bengal within a minimum distance of 60 km and 30 km from the Tamil Nadu-Puducherry coastline by 0600 and 1200 of today, the 30th November respectively.

The cyclonic storm is continuously 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
30.11.25/0600	11.5/80.6	65-75 gusting to 85	Cyclonic Storm
30.11.25/1200	12.0/80.5	55-65 gusting to 75	Deep Depression
30.11.25/1800	12.6/80.5	50-60 gusting to 70	Deep Depression
01.12.25/0000	13.3/80.5	45-55 gusting to 65	Depression

As per INSAT 3DR at 0600 UTC, the intensity is characterized as T2.5. The clouds are organized in curved band pattern. The associated scattered to broken low and medium clouds with embedded intense to very intense convection lay over southwest adjoining westcentral Bay of Bengal, Tamil Nadu, south Coastal Andhra Pradesh, Rayalaseema, South-interior Karnataka and Kerala (minimum CTT minus 70-90 degree Celsius). Moderate to intense convection lay over Palk Strait, Gulf of Mannar, Sri Lanka and rest of southwest Bay of Bengal (minimum CTT minus 40-60 degree Celsius).

The estimated central pressure is about 1002 hPa. The associated maximum sustained wind speed is about 35 knots gusting upto 45 knots.

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

Strom surge warning: Storm surge of height about 0.5 m to 1.0 m above the astronomical tide (0.4 m during high tide) is likely to inundate the low-lying coastal areas of Tamil Nadu- Puducherry till 30th/ 1200 UTC.

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 28^{0}C 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 15^{0}N) being 27^{0}C. 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 10-15^{0}N. The spiral band of convective clouds over southeast and adjoining eastcentral Bay of Bengal is associated with higher SST of 29^{0}C 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 increased and is about 150×10^{-6} s^{-1} over southwest Bay of Bengal to the south of system centre. Vertically the positive vorticity zone is extending up to 200 hPa and tilting slightly southwestwards with height. Upper-level divergence has decreased and is around 10×10^{-6} s^{-1} to the north of system centre. Low-level convergence is around 20×10^{-6} s^{-1} to the north of system centre. Mid layer shear is around (10-15 kts) and anti-cyclonic over the system area. The deep layer wind shear of horizontal

wind is moderate (15-20 kt) and anti-cyclonic over the system area and hence favorable to maintain intensity. Warm air advection around system centre still continues towards the system centre from south and southeast. However, cold and dry air incursion is reaching to the periphery in southwest 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. Currently the system is in marginally favourable environment which may lead to weakening of system from 0600 UTC onwards.

There is reduced convergence and divergence which will limit the sustenance of intensity of the system. While vorticity and shear are favourable, the low level convergence and upper level divergence are not so supportive. Hence, there will be slow weakening of the system during next 24 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 deep depression on 30th/ 1200 UTC and into a depression by 0000 UTC of 1st December.

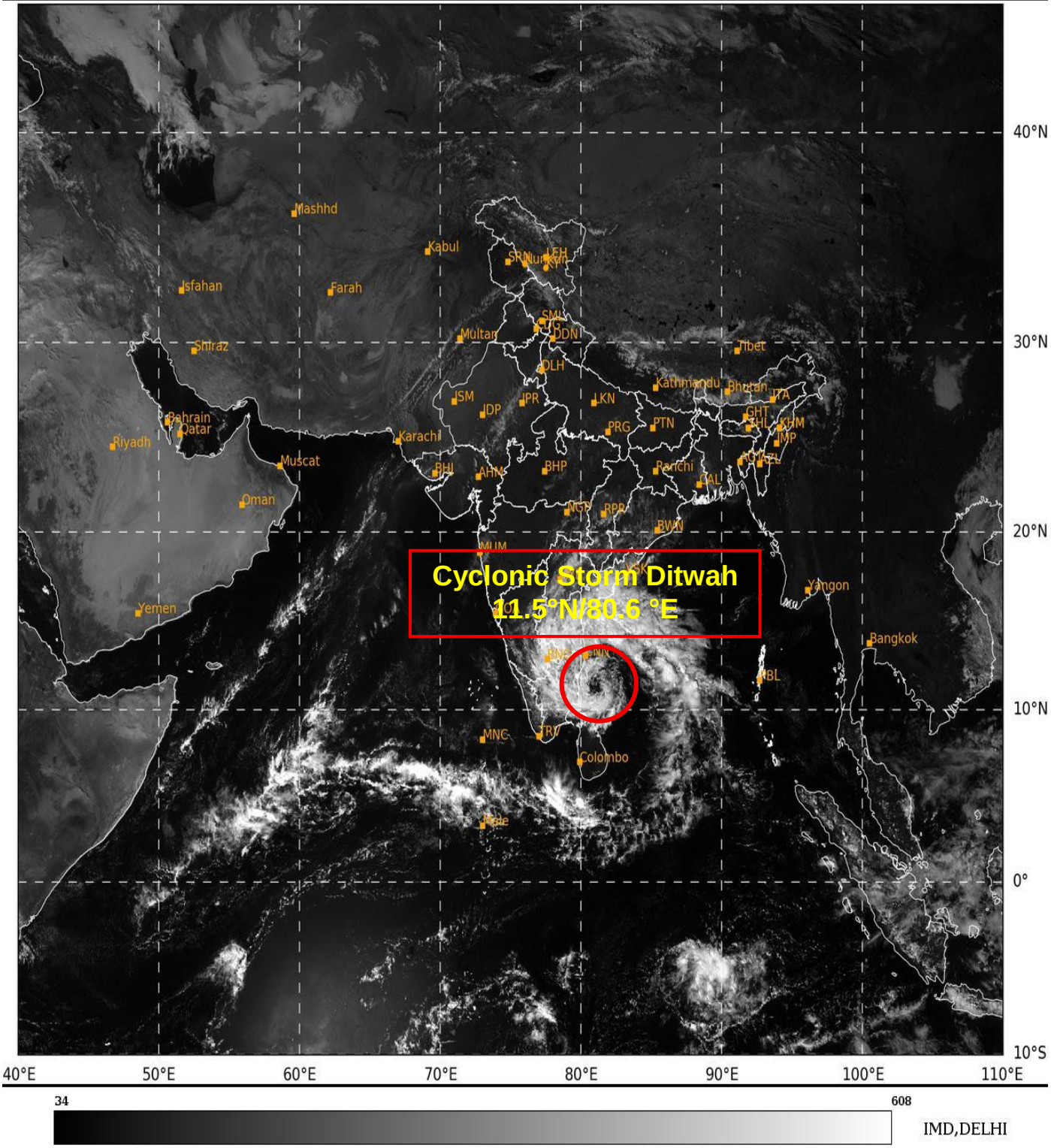
The forecast is based on the initial conditions and the consensus model guidance.

(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: Moderate

Monica Sharma
Scientist-E
Scientist, RSMC, New Delhi

SAT : INSAT-3DR IMG
Visible Count 0.65 um
L1C Mercator

30-11-2025/(0815 to 0842) GMT
30-11-2025/(1345 to 1412) IST



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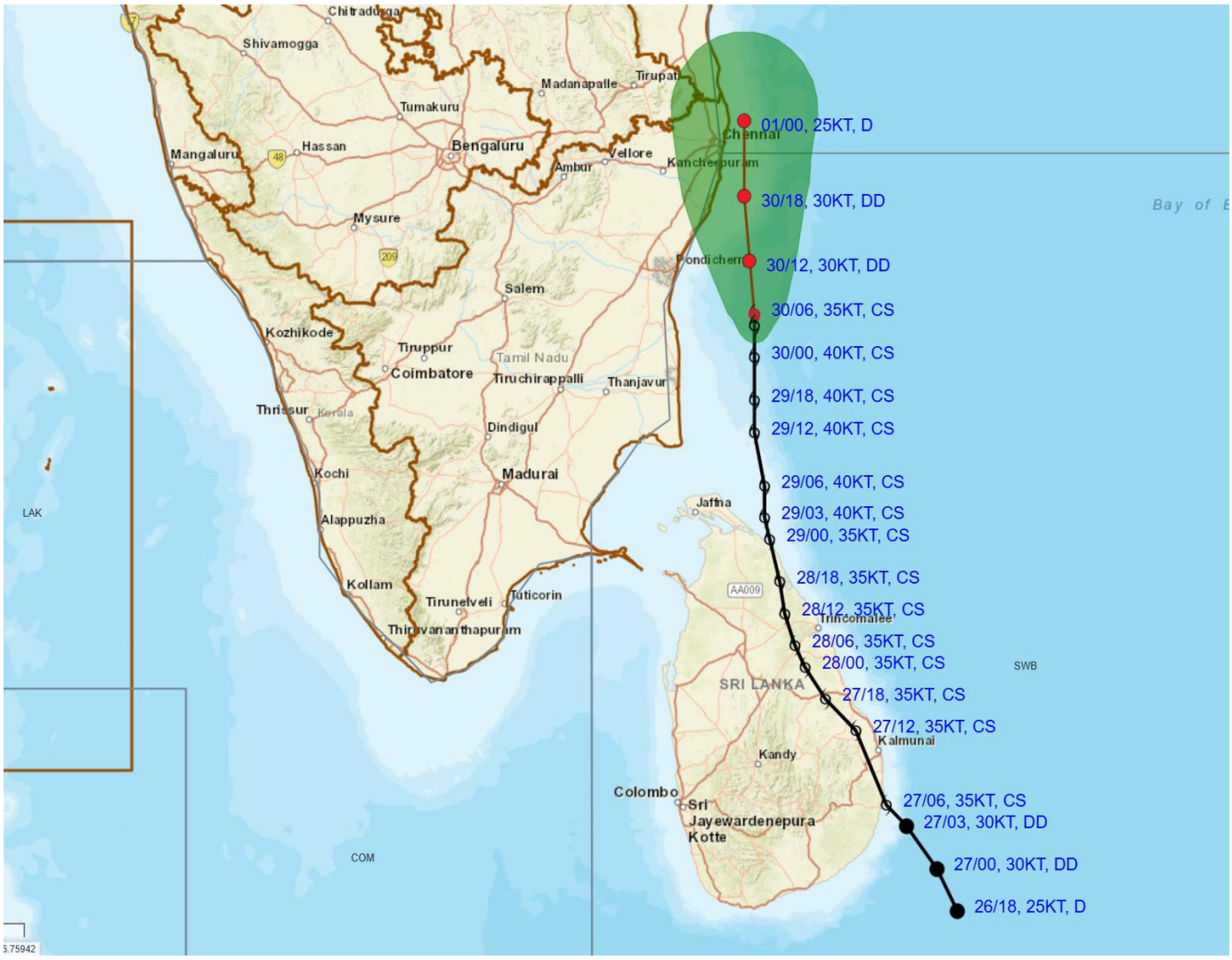
IMD,DELHI

Cloud distribution: (a) Isolated: <25%, Scattered:25-50%, Broken: 51-75%, Solid:>75%, Convection Intensity: (a) Weak: Cloud Top Temperature(CTT)>-25°C, (b) Moderate: CTT:-25°Cto-40°C, (c) Intense: CTT: -41°Cto -70°C and (d) Very Intense::Less than -70°C Probability of cyclogenesis (formation of depression) :NIL:0%, LOW:1-33%, MODERATE:34-66% and HIGH:67-100%

OBSERVED AND FORECAST TRACK OF CYCLONIC STORM "DITWAH" OVER SOUTHWEST BAY OF BENGAL AND ADJOINING NORTH TAMILNADU-PUDUCHERRY COASTS BASED ON 0600 UTC (1130 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 (≥ 120 KT)

LESS THAN 34 KT
34-47 KT
≥ 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
30.11.25/0600	PARANGIPETTAI (91,E)	CUDDALORE (96,ESE)	MO PONDICHERRY (100,ESE)	KARAIKAL (106,NE)	NAGAPPATTINAM (116,NE)
30.11.25/1200	MO PONDICHERRY (80,E)	CUDDALORE (89,ENE)	PARANGIPETTAI (102,ENE)	CHENNAI/MINAMBAKKAM (118,SSE)	NUMGAMBAKKAM (125,SSE)
30.11.25/1800	CHENNAI/MINAMBAKKAM (56,SE)	NUMGAMBAKKAM (61,SSE)	MO PONDICHERRY (102,NE)	TIRUTTANI (121,ESE)	CUDDALORE (122,NE)
01.12.25/0000	NUMGAMBAKKAM (42,NE)	CHENNAI/MINAMBAKKAM (48,NE)	TIRUTTANI (106,E)	TIRUPATHI (107,ESE)	NELLORE (140,SSE)

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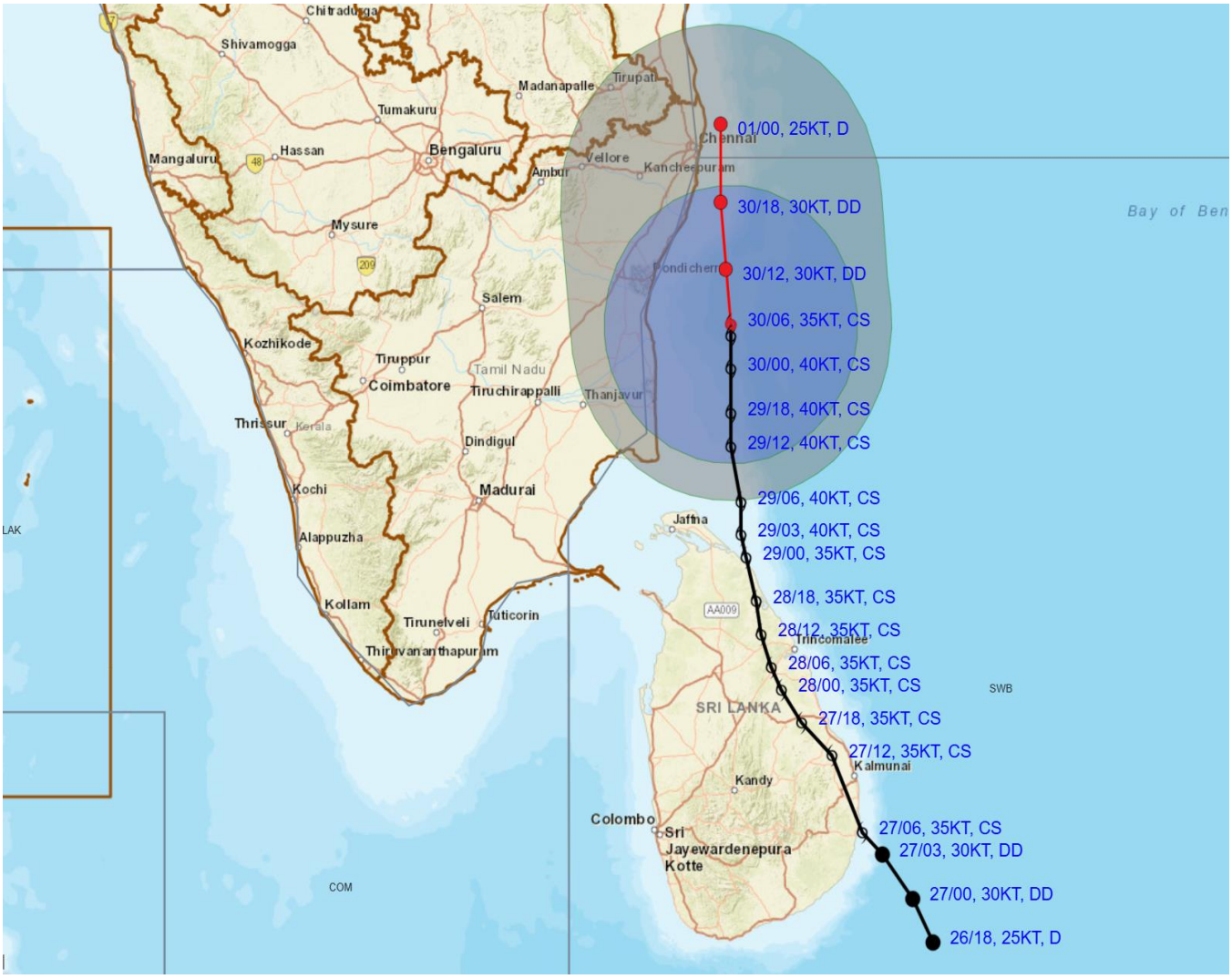
OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM "DITWAH" OVER SOUTHWEST BAY OF BENGAL AND ADJOINING NORTH TAMILNADU-PUDUCHERRY COASTS BASED ON 0600 UTC (1130 Hrs. IST) OF 30TH NOVEMBER 2025



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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

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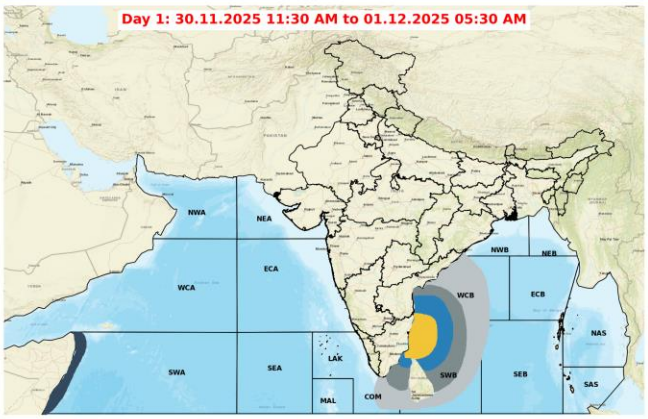
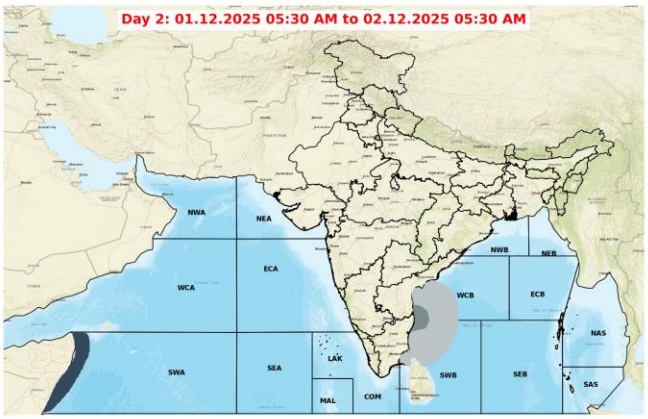
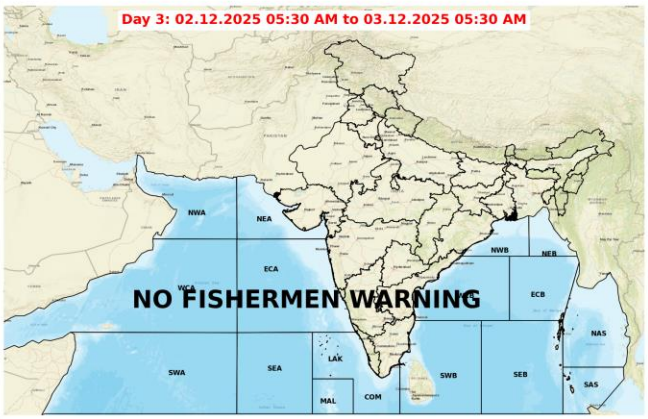
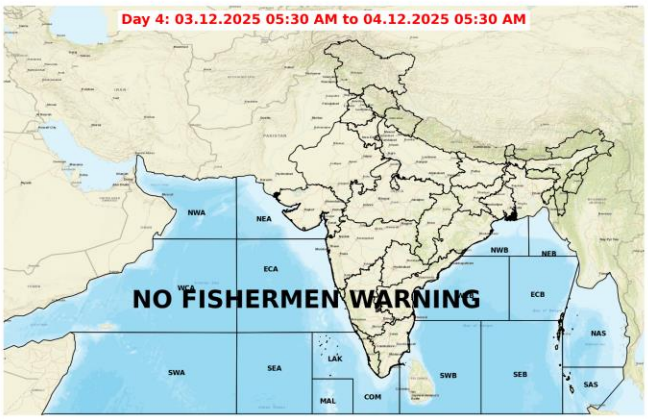
Fishermen Warning Graphics









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.

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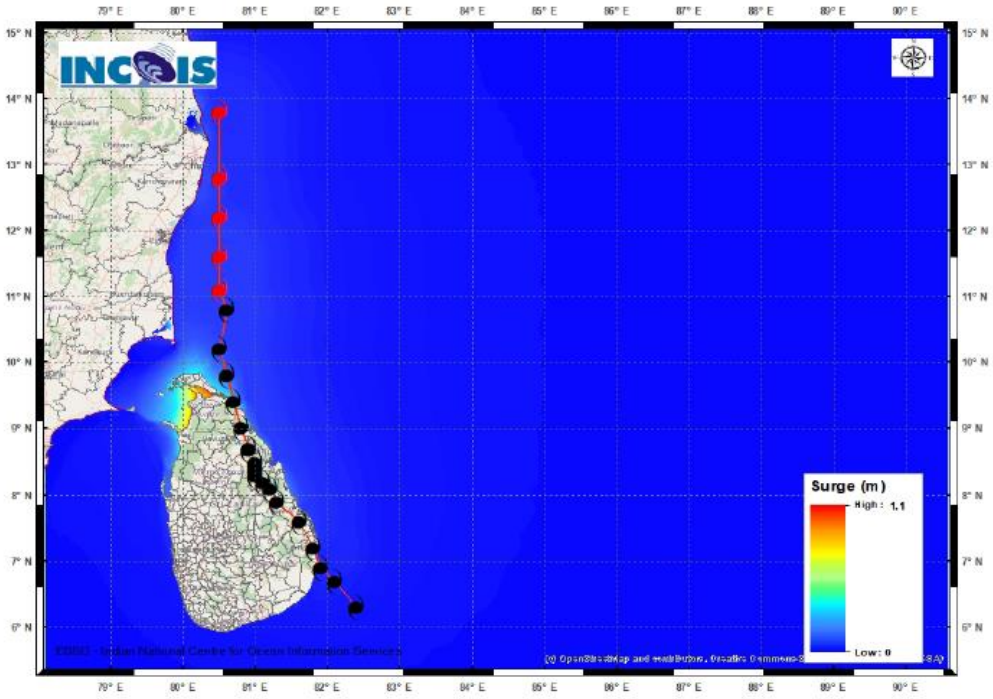
Storm Surge Guidance

STORM SURGE HEIGHT INFORMATION:

* The below listed surge heights are over and above astronomical tide.

MANDAL/TALUK	DISTRICT	STATE / UNION TERRITORY	NEAREST PLACE OF HABITATION	STORM SURGE (m) *	EXPECTED INUNDATION EXTENT (km)
Chengalpattu	Kancheepuram	Tamil Nadu	Muthukadu	0.3-0.5	Nil
Ponneri	Thiruvallur	Tamil Nadu	Karimanal	0.2-0.4	Upto 0.15



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