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

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**DEMS-RSMCSPECIAL TROPICAL CYCLONES NEW DELHI DATED 28.10.2025**
**FROM: RSMC –TROPICAL CYCLONES, NEW DELHI**
**TO: STORM WARNING CENTRE, NAYPYI TAW (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. 14 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 1200 UTC OF 28.10.2025 BASED ON 0900 UTC OF 28.10.2025**

**Sub: (A) Severe Cyclonic Storm "Montha" [Pronunciation: Mon-Tha] over westcentral Bay of Bengal and (B) Depression over eastcentral Arabian Sea**

**(A) Severe Cyclonic Storm "Montha" [Pronunciation: Mon-Tha] over westcentral Bay of Bengal:**

The Severe Cyclonic Storm "Montha" [Pronunciation: Mon-Tha] over westcentral Bay of Bengal moved north-northwestwards with a speed of 15 kmph during past 6 hours and lay centered at 0900 UTC of today, the 28th October 2025, over the same region, near latitude 15.6°N & longitude 82.5°E, about 70 km south-southeast of Machilipatnam (43185), 150 km south-southeast of Kakinada (43189), 250 km south-southwest of Visakhapatnam (43150) and 480 km south-southwest of Gopalpur (43049).

It is likely to move north-northwestwards and cross Andhra Pradesh coast between Machilipatnam and Kalingapatnam around Kakinada during 1200-1800 UTC of today, the 28th October as a severe cyclonic storm with a maximum sustained wind speed of 90-100 kmph gusting to 110 kmph.

As per INSAT 3DS imagery at 0900 UTC of 28th October, the intensity of the system is characterised as T3.5. Associated scattered to broken low/medium clouds with embedded intense to very intense convection lay over westcentral & adjoining southwest Bay of Bengal between latitude 10.0°N to 17.0°N and longitude 80.0 E to 85.0 E and Odisha, Chhattisgarh,

Telangana, Rayalaseema, Coastal Andhra Pradesh, Karnataka, Tamil Nadu, Kerala (minimum cloud top temperature is minus 70 to 90 degree Celsius) and moderate to Intense convection over Jharkhand, Chhattisgarh, Rajasthan, Madhya Pradesh, Goa, Maharashtra, Sikkim, Lakshadweep and Andaman & Nicobar Islands (minimum cloud top temperature is minus 40 to 70 degree Celsius).

The associated maximum sustained wind speed (MSW) is 50 kt gusting to 60 kt. The estimated central pressure is 990 hPa. A Buoy (16.4N/87.9E) reported maximum sustained wind speed (MSW) of 182°/17.1 kt and MSLP of 1006.8 hPa. Another Buoy (14.0N/87.0E) reported MSW of 197°/19.4 kt and MSLP of 1006.5 hPa. Kakinada (43189) reported MSW of 70°/11 kt, MSLP of 999.1 hPa and 24 hours pressure change ($P_{24}$) of -6.8 hPa. Machilipatnam (43185) reported MSW of 340°/07 kt, MSLP of 994.0 hPa and 24 hours pressure change ($P_{24}$) of -11.1 hPa. Narsapur (43187) reported MSW of 320°/12 kt, MSLP of 995.2 hPa and 24 hours pressure change ($P_{24}$) of -10.5 hPa.

The system is being monitored by Doppler Weather Radar at Machilipatnam and Visakhapatnam in addition to coastal observatories, automatic weather stations, ships & buoys and satellites.

Forecast track and intensity are given in the following table:

| Date/ Time (UTC) | Position (Lat. $^0$N/ long. $^0$E) | Maximum sustained surface wind speed (Kmph) | Category of cyclonic disturbance |
|---|---|---|---|
| 28.10.25/0930 | 15.6/82.5 | 90-100 gusting to 110 | Severe Cyclonic Storm |
| 28.10.25/1200 | 16.0/82.4 | 90-100 gusting to 110 | Severe Cyclonic Storm |
| 28.10.25/1800 | 16.7/82.3 | 85-95 gusting to 105 | Severe Cyclonic Storm |
| 29.10.25/0000 | 17.4/82.1 | 70-80 gusting to 90 | Cyclonic Storm |
| 29.10.25/1200 | 19.1/81.6 | 45-55 gusting to 65 | Depression |
| 30.10.25/0000 | 20.9/81.2 | 25-35 gusting to 45 | Well Marked Low Pressure Area |

**Storm Surge Warning (Graphics Enclosed):**
Strom surge of height about 1 m above astronomical tide is likely to cause inundation over low-lying areas of coastal Andhra Pradesh & Yanam (Puducherry) around the landfall time.

## (B) Depression over eastcentral Arabian Sea

The Depression over eastcentral Arabian Sea moved northeastwards with a speed of 7 kmph during past 6 hours and lay centered at 0900 UTC of today, the 28th October 2025, over the same region, near latitude 17.3°N & longitude 68.2°E, about 480 km southwest of Veraval (42909, Gujarat), 530 km west-southwest of Mumbai (43003, Maharashtra), 630 km west-northwest of Panjim (43192, Goa), 840 km northwest of Aminidivi (43311, Lakshadweep) and about 870 km northwest of Mangalore (43284, Karnataka).

It is likely to move nearly northeastwards across Eastcentral Arabian Sea during next 36 hours.

As per INSAT 3DS imagery at 0900 UTC of 28$^{th}$ October, intensity of the system is T1.5. Associated scattered to broken, low and medium clouds with embedded intense to very intense convection lay over central & northeast Arabian Sea and Gulf of Cambay Gujarat & Gulf of Kutch. (Minimum cloud top temperature is minus 70 to 90 degree Celsius).

The associated maximum sustained wind speed (MSW) is 25 kt gusting to 35 kt. The estimated central pressure is 1000 hPa.

**REMARKS:**

The guidance from ECMM model indicates that Madden Julian Oscillation (MJO) index is presently in phase 5 with amplitude around 2. It is likely to move across phase 5 with decreasing amplitude reaching close to 1 by 30th October. Thereafter, the amplitude will gradually decrease becoming less than 1 by 31st October. The phase and amplitude of MJO is highly favourable for enhancement of convective activity over the Bay of Bengal (BoB) and Arabian Sea till 29th October, and further to the north on 31st October.

Guidance from NCICS model indicates enhanced westerly wind anomaly over southern parts of the North Indian Ocean (NIO) including the south BoB & south Arabian Sea (AS) and adjoining Equatorial Indian Ocean (EIO) on 28th October with slight decreasing trend thereafter during 28th October-2nd November. The westerly wind burst is likely to prevail over the southern parts of the NIO and adjoining EIO till 30th October. The model also indicates prevalence of equatorial Rossby wave (ERW), MJO, low frequency background wave (LW) over the same region during 28th -30th October. The model guidance also indicates prevalence of easterly wind anomaly over westcentral BoB (7-9 mps) & over south Andaman Sea (3-5 mps) during initial few days of week 1. Thereafter easterly wind anomaly (1-3 mps) is likely over central parts of BoB. Over the AS, the model is indicating easterly wind anomaly (5-7 mps) over southwest & adjoining west-central AS on 28th October. Thus, equatorial waves are likely to support the convective activity associated with both the cyclonic disturbances over eastcentral Arabian Sea and over the Northeast Arabian Sea and west central and North west BoB during 28th to 30th October.

Over the Bay of Bengal, the guidance from CIMSS indicates, positive low-level vorticity at 850 hPa is about 250 × $10^{-6}$ $s^{-1}$ around the system centre. The upper-level divergence is around 10 × $10^{-6}$ $s^{-1}$ to southwest of the system centre. Low level convergence is about 10 × $10^{-6}$ $s^{-1}$ to the northwest of system centre. Vertical wind shear (VWS) of horizontal wind is cyclonic and moderate (15-20 kt) over the system area. IR-WV imagery shows intense convection to around northwest of system area. Total precipitable water imagery indicates warm moist air incursion into the core. The Sea surface temperature (SST) is around 28-29 $^{0}$C over the system area and along the predicted path. Various environmental conditions indicate a favourable environment in maintaining the intensity of the system before its landfall.

Over the Arabian Sea (AS), the guidance from CIMSS indicates, the low level vorticity at 850 hPa is about 100 × $10^{-6}$ $s^{-1}$ to the south of system area, extending up to 500 hPa level. It is southwest-northeast oriented and is extending upto west coast of India. Two positive zones of upper-level divergence are seen southwest of the system centre (10 × $10^{-6}$ $s^{-1}$) to the another zone of (10 × $10^{-6}$ $s^{-1}$) to the northeast of system area. Positive zone of low-level convergence is about 05 × $10^{-6}$ $s^{-1}$ to the northeast of system area. Mid-level vertical wind shear (VWS) of horizontal wind is anticyclonic & low to moderate (5 – 10 kt) over the eastcentral parts of Arabian Sea. Upper tropospheric ridge runs along 18°N over the eastcentral AS in association with anticyclonic circulation over Maharashtra coast.

**Model Guidance:**

**Bay of Bengal:**

The forecast tracks by various models in successive cycles are gradually converging and increasing the consensus among them. All the models indicate maintaining the intensification of system with nearly north-northwestwards movement towards Andhra Pradesh coast before landfall. There is a slight variation in landfall time although they have fairly good agreement in the tracks. The operational forecast is the consensus derived from ECMWF, IMD MME, and NCUM. As per the guidance from various models, the landfall point is varying between Machillipatnam and Vizianagram. The landfall time is varying between 28/1500 UTC to 29/0000 UTC.

**Arabian Sea:**

Most of the models are suggesting north-northeastwards movement of the system. Some models suggest intensification into a Deep Depression during next 36 hours.

Considering all the above,

(a) The Severe Cyclonic Storm “Montha” [Pronunciation: Mon-Tha] is very likely to move north-northwestwards and cross Andhra Pradesh coast between Machilipatnam (43185) and Kalingapatnam (43105) around Kakinada (43189) during 1200-1800 UTC of today, the 28th October as a severe cyclonic storm with a maximum sustained wind speed of 90-100 kmph gusting to 110 kmph.

**Confidence Level:**

**(i) Estimation of Current location: High**
**(ii) Estimation of Current Intensity: High**
**(iii) Determination of forecast track: High**
**(iv) Determination of forecast intensity: High**
**(v) Determination of Landfall Point: High**
**(vi) Determination of Landfall Time: High**

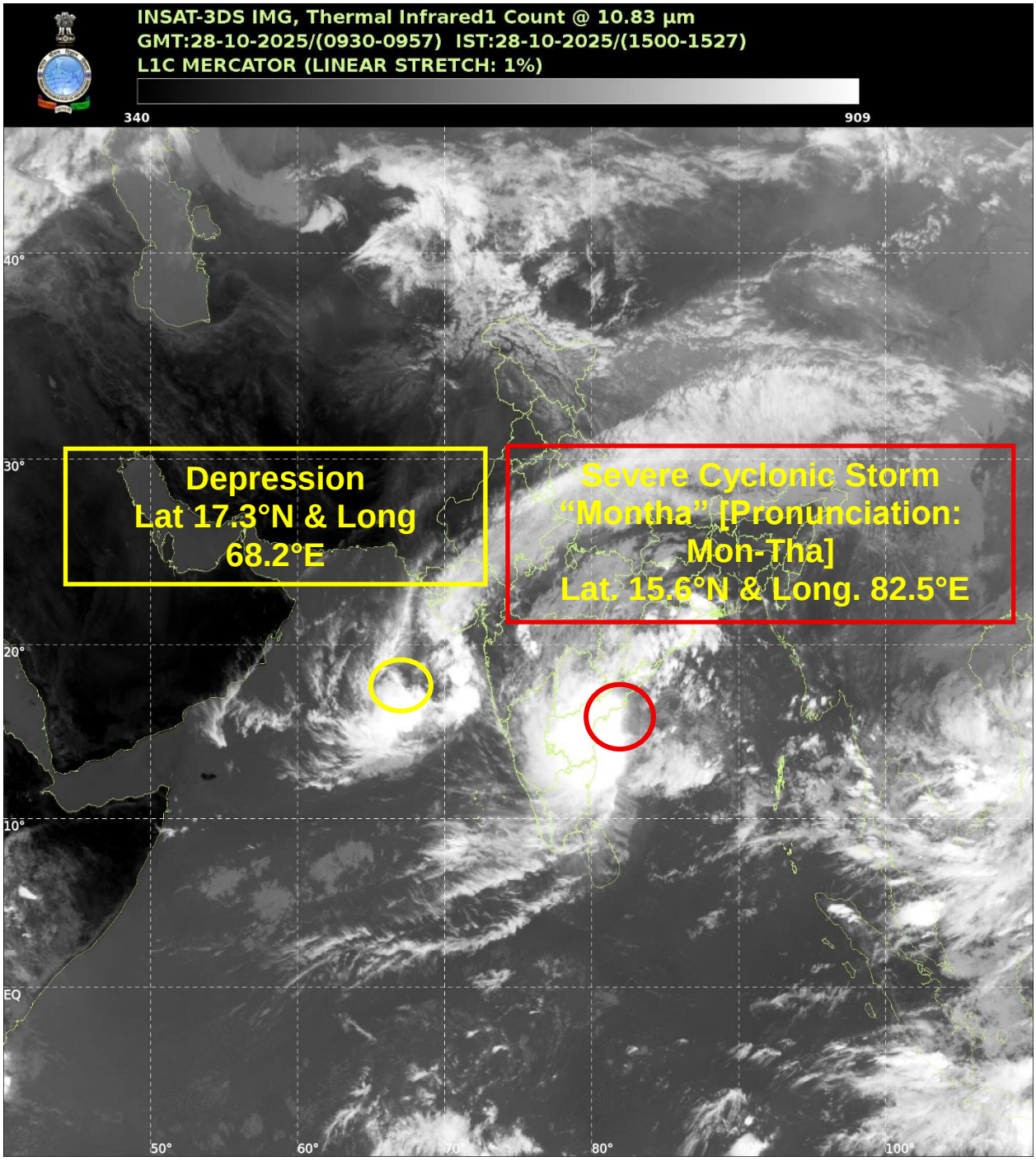
(b) The depression over eastcentral Arabian Sea is likely to move move nearly north-northeastwards across Eastcentral Arabian Sea during next 36 hours.

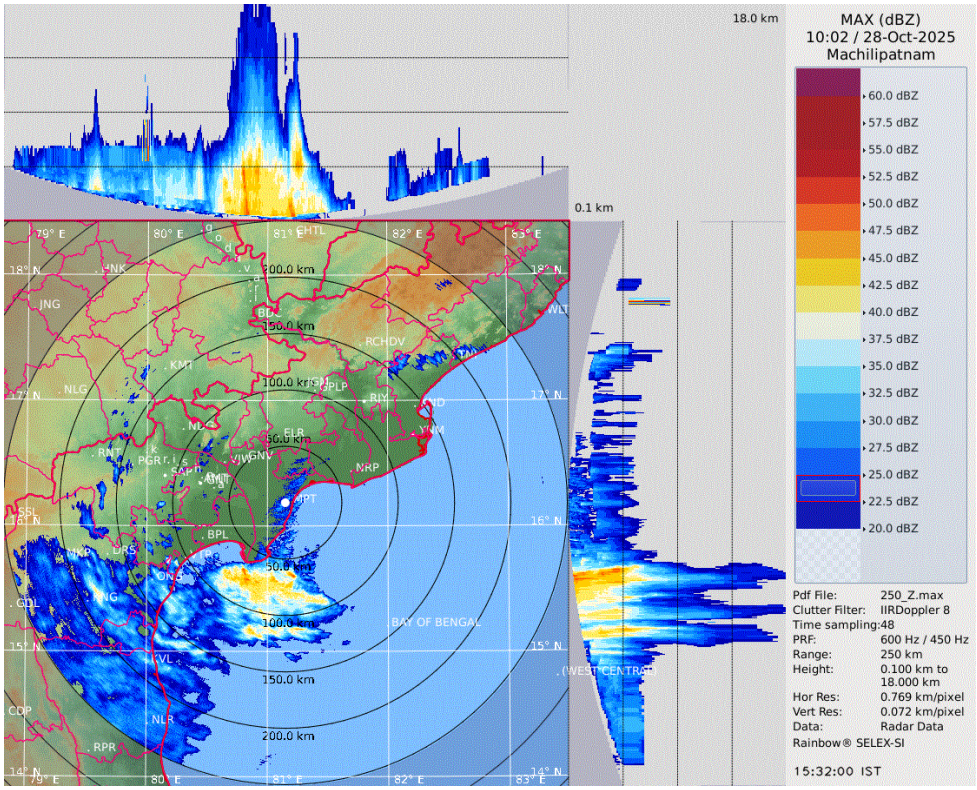
**Confidence Level:**

**(i) Estimation of Current location: Moderate**
**(ii) Estimation of Current Intensity: High**
**(iii) Determination of forecast track: Moderate**
**(iv) Determination of forecast intensity: Moderate**

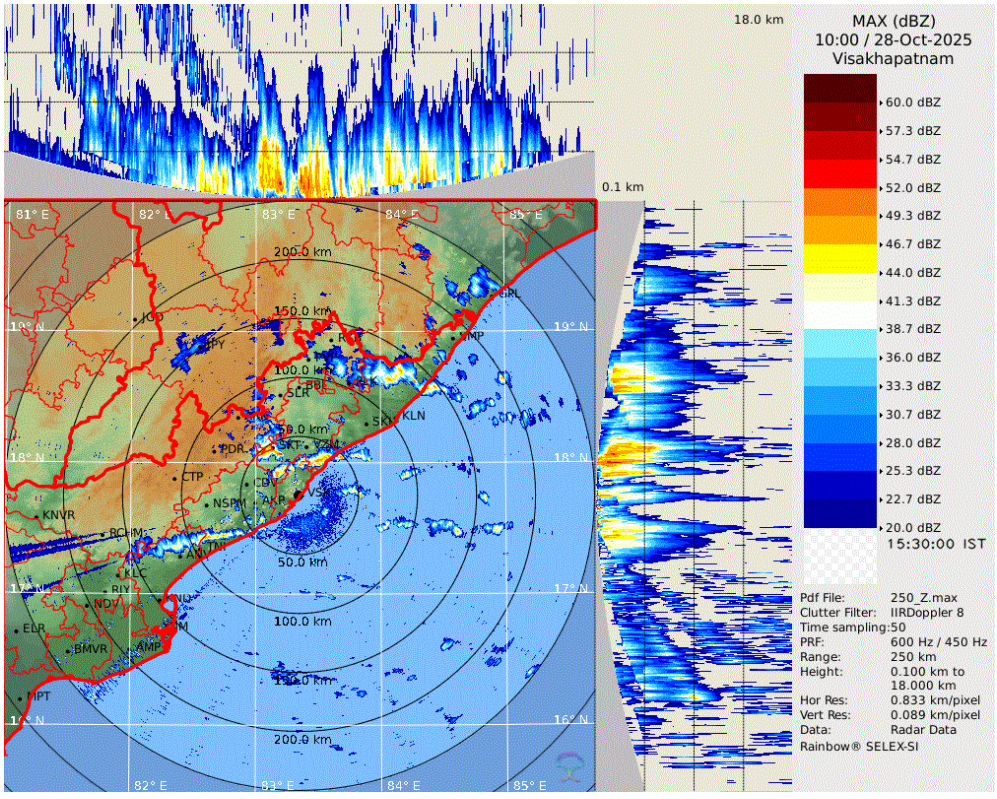
For further updates, kindly visit RSMC website: https://rsmcnewdelhi.imd.gov.in/
For track on GIS, kindly click: https://dss.imd.gov.in/dwr_img/GIS/cyclone.html

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


INSAT-3DS IMG, Thermal Infrared1 Count @ 10.83 µm
GMT:28-10-2025/(0930-0957) IST:28-10-2025/(1500-1527)
L1C MERCATOR (LINEAR STRETCH: 1%)
340
909
40°
30°
20°
10°
EQ
50°
60°
70°
80°
100°
Depression
Lat 17.3°N & Long
68.2°E
Severe Cyclonic Storm
“Montha” [Pronunciation:
Mon-Tha]
Lat. 15.6°N & Long. 82.5°E

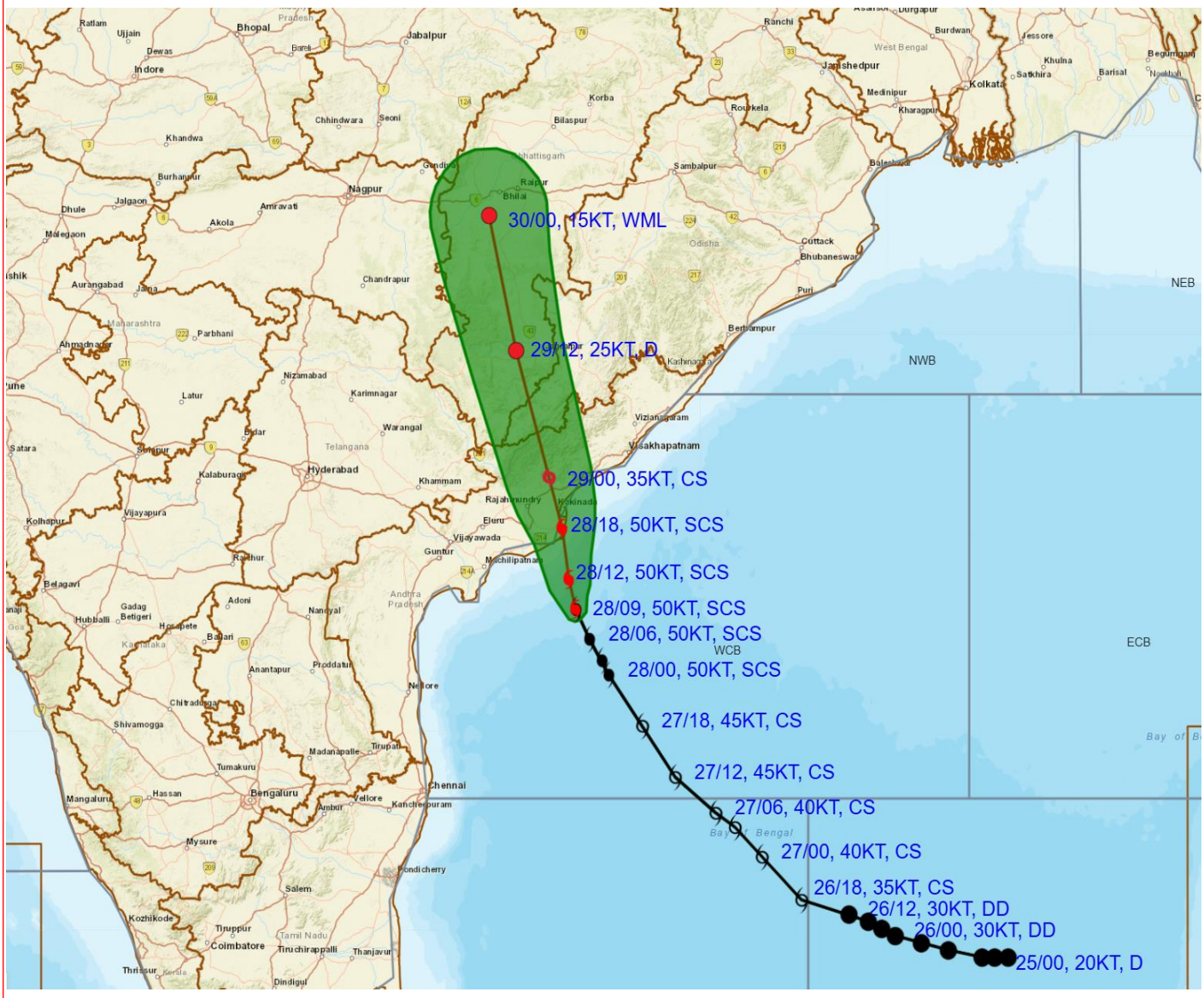



Max Z image of DWR Machilipatnam based on 0900 UTC of 28th October 2025




Max Z image of DWR Visakhapatnam based on 0700 UTC of 28th October 2025

# OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF SEVERE CYCLONIC STORM "MONTHA" OVER WESTCENTRAL BAY OF BENGAL BASED ON 0900 UTC (1430 Hrs. IST) OF 28TH OCTOBER 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

**OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF SEVERE CYCLONIC STORM "MONTHA" OVER WESTCENTRAL BAY OF BENGAL BASED ON 0900 UTC (1430 Hrs. IST) OF 28TH OCTOBER 2025.**

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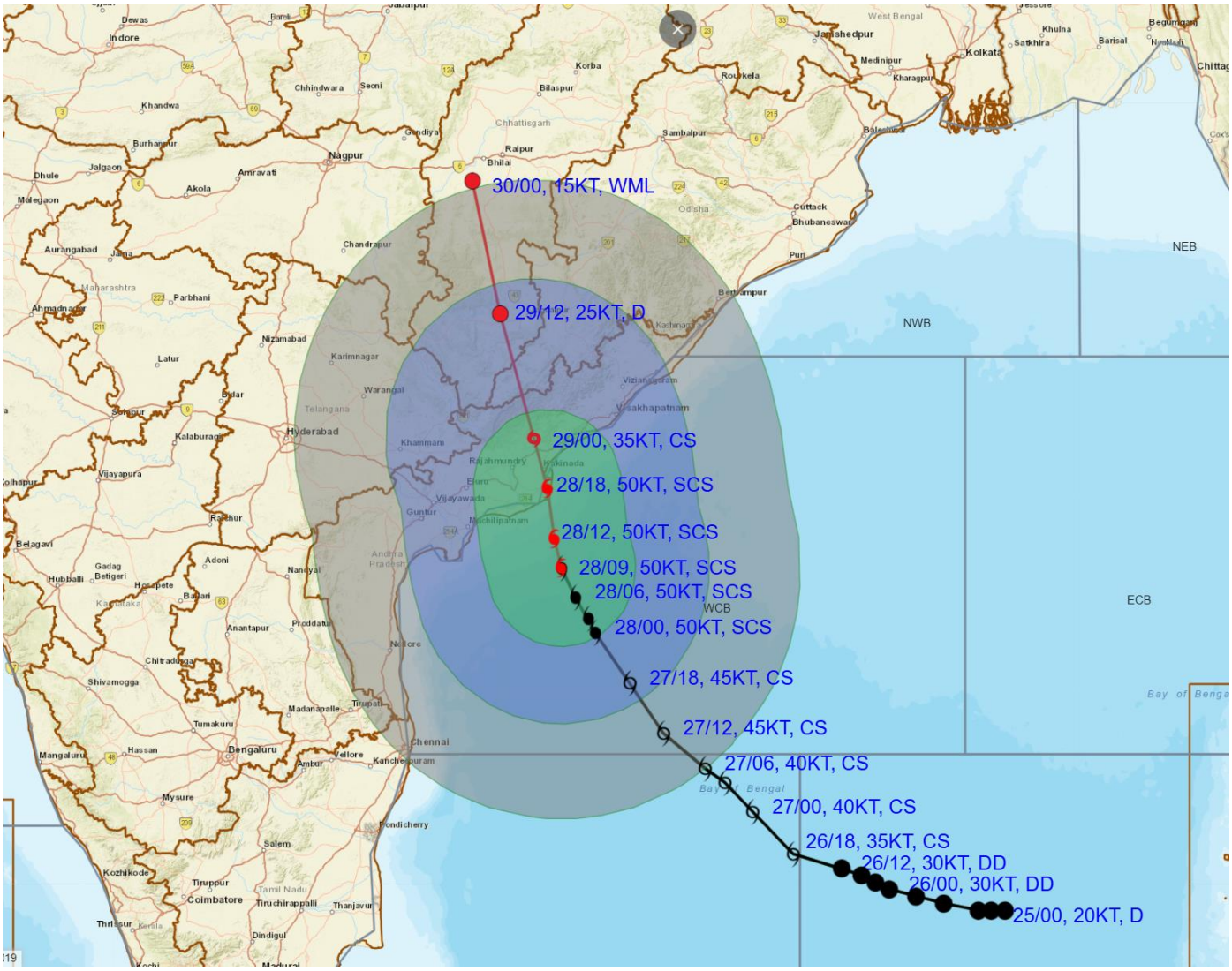


DATE/TIME IN UTC
IST=UTC + 0530
L: LOW PRESSURE AREA
WML: WELL MARKED LOW PRESSURE AREA
D: DEPRESSION (17-27 KT)
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SCS: SEVERE CYCLONIC STORM (48-63KT)
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
SuCS: SUPER CYCLONIC STORM (≥ 120 KT)

- LESS THAN 34 KT
- 34-47 KT
- ≥ 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY

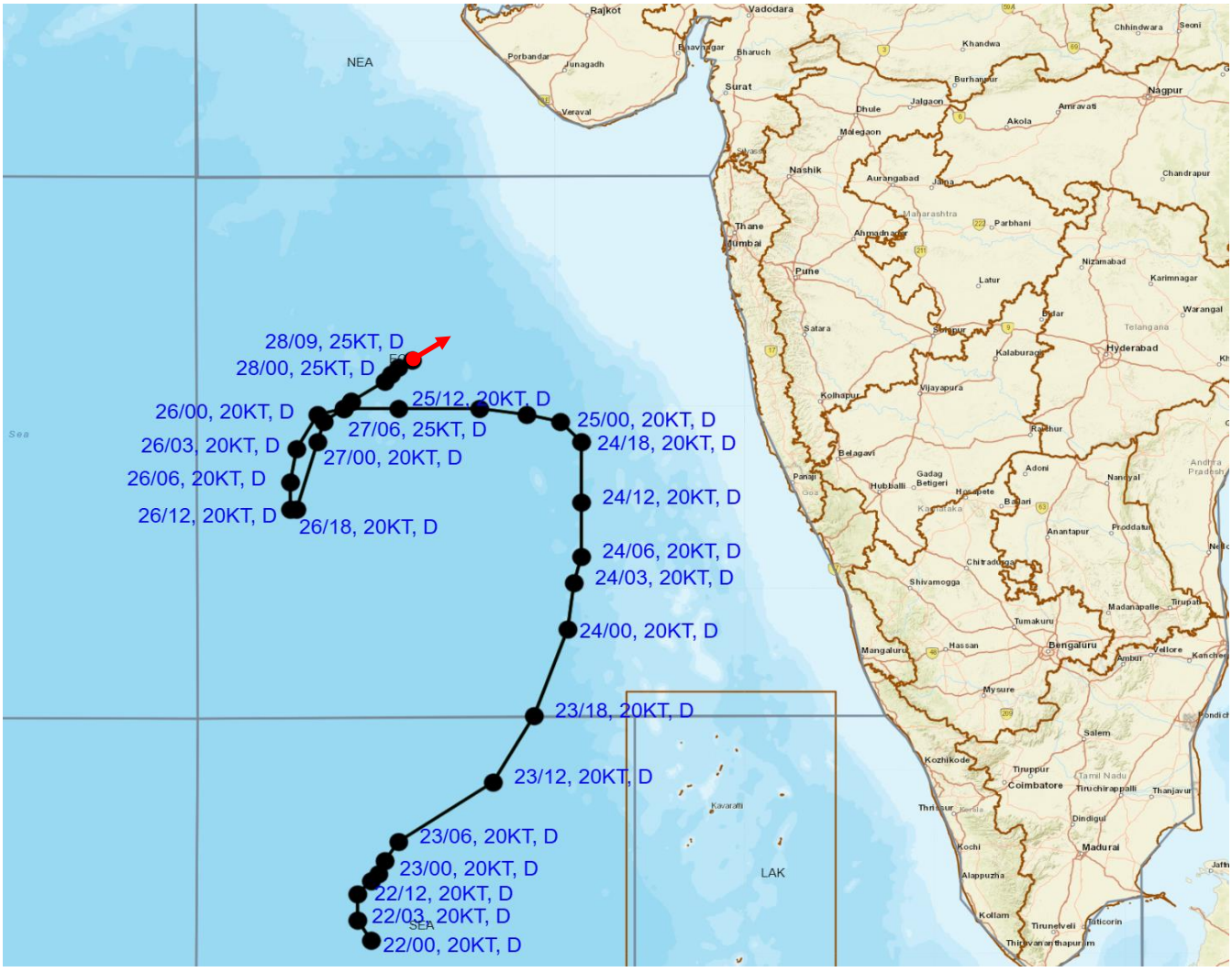
AREA OF MAXIMUM SUSTAINED WIND SPEED:

- 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 |

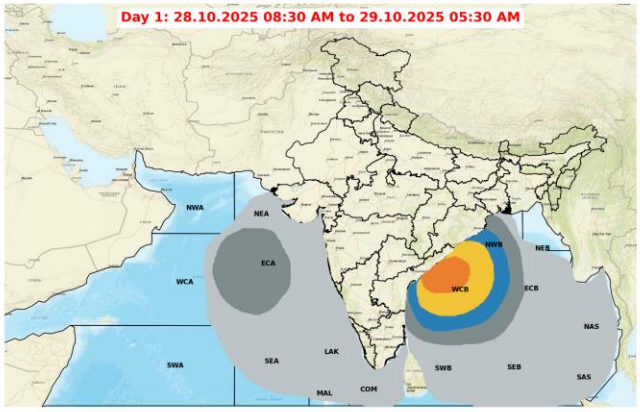
# OBSERVED AND FORECAST TRACK OF THE DEPRESSION OVER EASTCENTRAL ARABIAN SEA BASED ON 0900 UTC (1430 IST) OF 28TH OCTOBER, 2025

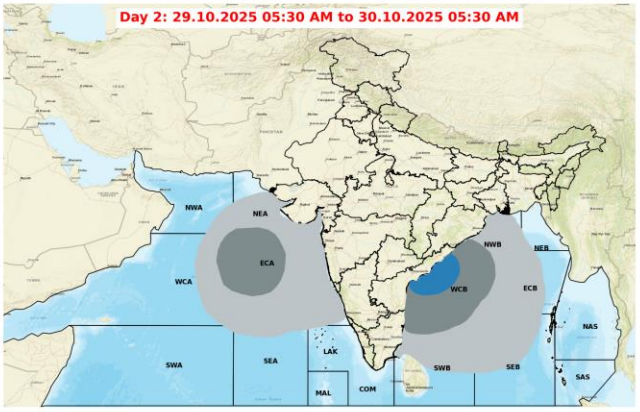


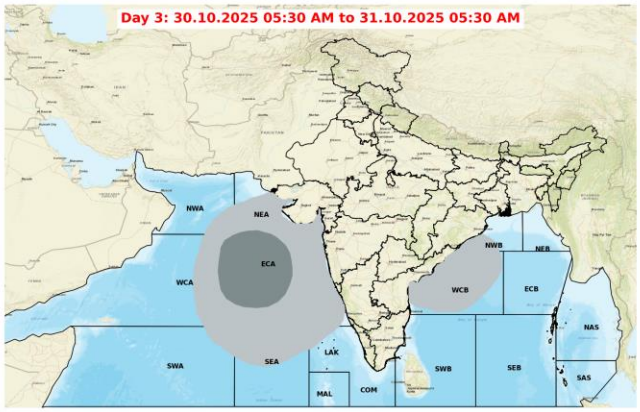

DATE/TIME IN UTC
IST=UTC + 0530
L: LOW PRESSURE AREA
WML: WELL MARKED LOW PRESSURE AREA
D: DEPRESSION (17-27 KT)
DD: DEEP DEPRESSION (28-33 KT)
CS: CYCLONIC STORM (34-47 KT)
SCS: SEVERE CYCLONIC STORM (48-63KT)
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
SuCS: SUPER CYCLONIC STORM (≥ 120 KT)

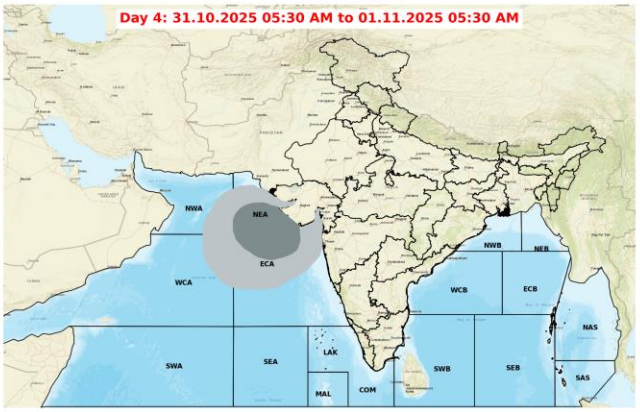
LESS THAN 34 KT
34-47 KT
≥ 48 KT
OBSERVED TRACK
FORECAST TRACK
CONE OF UNCERTAINTY

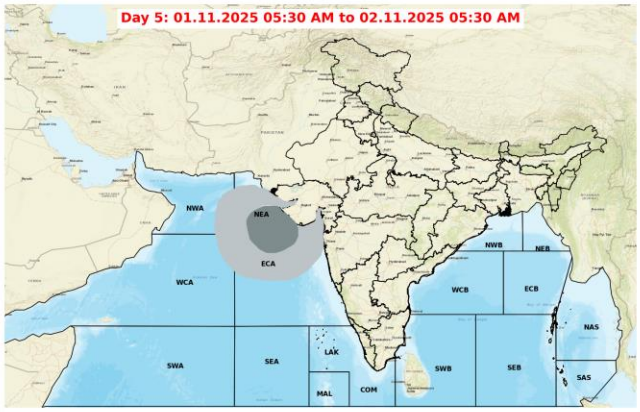
# Fishermen Warning Graphics



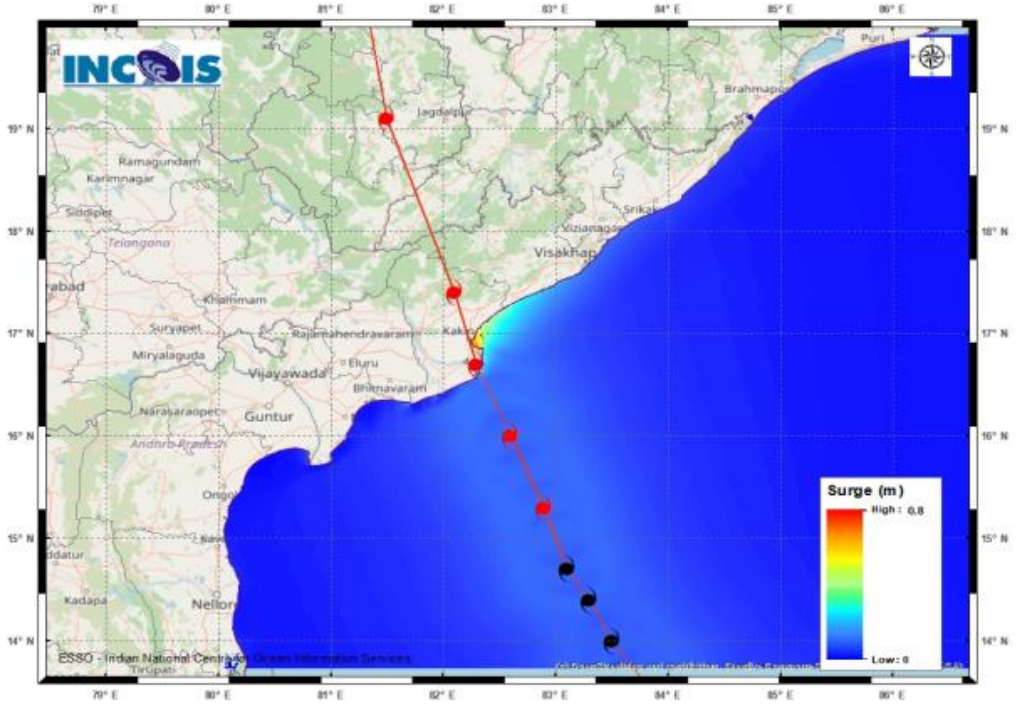




**Legend**

- 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.

**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) |
|---|---|---|---|---|---|
| Kakinada | East Godavari | Andhra Pradesh | Polekurru | 0.3-0.7 | Upto 0.12 |
| Pithapuram | East Godavari | Andhra Pradesh | Ponnada | 0.4-0.6 | Upto 0.10 |
| Tuni | East Godavari | Andhra Pradesh | Kona Forest | 0.4-0.5 | Nil |
| Yanam | Yanam | Puducherry | Yanam | 0.5-0.8 | Upto 0.16 |
| Yellamanchili | Visakhapatnam | Andhra Pradesh | Rajala Agraharam | 0.2-0.5 | Upto 0.16 |