

Ministry of Earth Sciences India Meteorological Department Cyclone Warning Division, New Delhi

Tropical Cyclone Forecast Programme Report Dated 28th October 2025

Time of Issue: 1130 UTC

Synoptic features (based on 0600 UTC analysis):

The Severe Cyclonic Storm "Montha" [Pronunciation: Mon-Tha] over westcentral Bay of Bengal moved north-northwestwards with a speed of 12 kmph during past 6 hours and lay centered at 0600 UTC of today, the 28th October 2025, over the same region, near latitude 15.2°N and longitude 82.7°E, about 120 km south-southeast of Machilipatnam (Andhra Pradesh), 200 km south-southeast of Kakinada (Andhra Pradesh), 290 km south-southwest of Visakhapatnam (Andhra Pradesh) and 510 km south-southwest of Gopalpur (Odisha).

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

➤ The Depression over eastcentral Arabian Sea remained practically stationary during past 3 hours and lay centered at 0600 UTC of today, the 28th October 2025, over the same region, near latitude 17.1°N & longitude 67.8°E, about 500 km south-southwest of Veraval (Gujarat), 580 km west-southwest of Mumbai (Maharashtra), 670 km west-northwest of Panjim (Goa), 850 km northwest of Aminidivi (Lakshadweep) and about 890 km west-northwest of Mangalore (Karnataka).

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

Environmental Features based on 0600 UTC:

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Parameter	Bay of Bengal (BoB)	Arabian Sea (AS)				
Sea Surface Temperature (SST) °C	➤ Around 29°C over the system area and along the predicted path.	➤ Around 28 - 30 of over eastcentral Arabian Sea Lakshadweep Island Maldives, Comorin areas along and off Kerala, sout Karnataka coast, parts of northwest Arabian Sea. ➤ 26-28°C over rest of th Arabian Sea.				
Tropical Cyclone Heat Potential (TCHP) kJ/cm2	 ➤ 100-130 over northeast BoB, eastcentral BoB, south Andaman Sea and southernparts of south BoB. ➤ 80-90 over rest of BoB. 	> 90-110 over southeast AS, Lakshadweep Islands, Maldives islands and				
Cyclonic Relative - vorticity (X10 ⁻⁶ s ⁻¹)	About 240 close to the system centre, extending up to 500 hPa level.	, E00 D				
Low-Level convergence (X10-6 s-1)	15 around the system and 10 to its surroundings.	➤ 5 to 10 to the south of system area.				

Upper-Level divergence (X10-6 s-1) Vertical Wind Shear (VWS knots) Low: 05-10 knots Moderate: 10-20 knots High: >20 knots	 5 to 10 to the south of system area. High (25 - 30) over south and central BoB. 	 ➤ 5 to 10 to the southwest of system area, 10 – 20 along the Gujarat coast. ➤ High (25 - 30) over the most parts of Arabian Sea, 5 – 20 along and off Goa, Konkan, south Gujarat coasts. 	
Wind Shear Tendency (knots)	➤ Increasing over system area, along the forecast path.	Decreasing along the northern parts of eastcentral Arabian Sea.	
Upper tropospheric Ridge	➤ At 20 ⁰ N.	➤ At 20 ⁰ N.	

Over the BoB & Andaman Sea:

As per INSAT 3DS imagery at 0600 UTC of 28th October, the intensity of the system is T3.5. Associated scattered to broken low/medium clouds with embedded intense to very intense convection 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 over Chattisgarh, Telangana, Karnataka, Coastal Andhra Pradesh, Rayalaseema, Tamil Nadu, (minimum cloud top temperature is minus 70 to 90 degree Celsius).

Over the Arabian Sea:

As per INSAT 3DS imagery at 0600 UTC of 28th October, vortex over eastcentral Arabian Sea & neighbourhood with Intensity T1.5. Associated scattered to broken low and medium clouds with embedded intense to very intense convection lay over central & northeast Arabian Sea, Gujarat and Gulf of Kutch (Minimum cloud top temperature is minus 70 to 90 degree Celsius).

Outside India:

Scattered low/medium clouds with embedded moderate to intense convection over Sri Lanka, Palk Strait, Gulf of Mannar, Maldives, Pakistan, Nepal, Tibet, China, East China Sea, Myanmar, Thailand, Gulf of Thailand, Cambodia, Laos, Vietnam, Gulf of Tonkin, Hainan, Sumatra, Strait of Malacca, Malaysia, Borneo, South China Sea, Java Islands and Sea, Celebes Islands and Sea, Philippines, Sulu Sea, Madagascar and over Indian Ocean between latitudes 5.0°N to 20.0°S and longitudes 60.0°E to 120.0°E

M.J.O. Index:

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.

Equatorial waves quidance:

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 westcentral 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.

NWP Guidance for FDP Cyclone:

MODEL	Bay of Bengal (BoB)	Arabian Sea (AS)
GUIDANCE		
IMD-GFS	SCS over westcentral Bay of Bengal (BoB) as of today, the 28/00 UTC. Moving Westnorthwest wards and cross the Andhra Pradesh coast near Kakinada as SCS during evening/night of today. Weakening gradually over land while moving in same direction.	Depression over eastcentral Arabian Sea as of today. Moving in NE direction towards Gujarat coast while weakening till 31/00, weakening gradually thereafter.
IMD-GEFS	SCS over westcentral Bay of Bengal (BoB) as of today, the 28/00 UTC. Moving Westnorthwest wards and cross the Andhra Pradesh coast near Kakinada as SCS during evening/night of today. Weakening gradually over land while moving in same direction.	Depression over eastcentral Arabian Sea as of today. Moving in NE direction towards Gujarat coast while weakening till 31/00, weakening gradually thereafter.
IMD-WRF	-	-
BFS	SCS over westcentral Bay of Bengal (BoB) as of today, the 28/00 UTC. Moving Westnorthwest wards and cross the Andhra Pradesh coast near Kakinada as SCS during evening/night of today. Weakening gradually over land while moving in same direction. Model is indicating another low on 31/00 UTC over north Andaman Sea. It will move in NW direction and become depression on eastcentral and adjoining north Bay on 03 Nov/00 UTC. It will then move in NE direction and reach the Bangladesh coast on 04 Nov/00 UTC, weakening over land thereafter.	
NCMRWF- NCUM(G)	Depression as on 28/00 over westcentral BoB. Moving in the WNW direction and cross the Andhra Pradesh coast near Kakinada around 29/00 UTC as LPA, lessmarked thereafter.	Extended low over eastcentral Arabian Sea as of today. Moving in NE direction and becoming depression over the same region on 30/00. Moving in the same direction and reach Gujarat coast as WML/D on 31/00. Weakening

		gradually thereafter.
NCMRWF- NCUM(R)	Deep Depression as on 28/00 over westcentral BoB. Moving in the WNW direction and cross the Andhra Pradesh coast near Kakinada around 29/00 UTC as Deep Depression, weakening gradually thereafter while initially moving in same direction and then recurve in NNE direction.	
NEPS	-	-
ECMWF	SCS over westcentral Bay of Bengal (BoB) as of today, the 28/00 UTC. Moving Westnorthwest wards and cross the Andhra Pradesh coast near Kakinada as SCS around 28/21 UTC. weakening gradually thereafter while initially moving in same direction and then recurve in NNE direction.	•
NCEP-GFS	SCS over westcentral Bay of Bengal (BoB) as of today, the 28/00 UTC. Moving Westnorthwest wards and cross the Andhra Pradesh coast near Kakinada as SCS around 28/18 UTC. Weakening gradually over land while moving in same direction.	
EC-AIFS	SCS over westcentral Bay of Bengal (BoB) as of today, the 28/00 UTC. Moving Westnorthwest wards and cross the Andhra Pradesh coast near Kakinada as SCS around 28/18 UTC. Weakening gradually over land while moving in same direction.	Arabian Sea as of today. Moving NNE towards Gujarat coast till 03

Summary:

(a) Bay of Bengal:

There is good consensus among various models w.r.t movement and landfalling of the severe cyclonic storm over westcentral Bay of Bengal around evening and night (1200-1800 UTC) of today and its movement towards Andhra Pradesh coast. All the models are indicating landfall over north Andhra Pradesh coast near Kakinada. The landfall time varies between 28/1800 UTC to 29/00 UTC.

(b) Arabian Sea

Most of the models are suggesting the depression over the eastcentral Arabian Sea having northeastward movement towards Gujarat coast without weakening and reach Gujarat coast by around 01st November. All the models are indicating that the system will weaken near the coast.

Inference:

Considering various large-scale environmental features and model guidance, it is inferred that

(a) The Cyclonic Storm "Montha" [Pronunciation: Mon-Tha] is very likely to move north-northwestwards and intensify into a severe cyclonic storm by 0000 UTC of 28th October. Continuing to move further north-northwestwards, it is very likely to cross Andhra Pradesh coast between Machilipatnam (43185) and Kalingapatnam (43105) around Kakinada (43189) during 1200-1800 UTC of 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 nearly north-northeastwards across eastcentral Arabian Sea during next 36 hours.

Confidence Level:

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

Both the systems are under continuous watch.

<u>Probability of cyclogenesis (formation of depression and above intensity systems) over the Bay of Bengal during next 168 hours:</u>

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

<u>Probability of cyclogenesis (formation of depression and above intensity</u> systems) over the Arabian Sea during next 168 hours:

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

[&]quot;- "indicates genesis has already occurred.

Probability is indicated as NIL for 0%, LOW for 1-33%, MOD for 34-67% and High for 68-100%.

Every 24 hrs forecast ends at the 0300 UTC of date.

Intense Observation Period (IOP): IOP for Karnataka, Konkan & Goa, Gujarat, Tamil Nadu and Sri Lanka during 28th to 29th; Andhra Pradesh and Odisha during 28th to 29th.

Warnings in association with Cyclonic Storm "Montha" over Bay of Bengal:

(i) Wind warning:

Gale wind speed reaching 90-100 kmph gusting to 110 kmph likely to continue to prevail over Westcentral & adjoining areas of southwest Bay of Bengal till night of 28th October. The squally wind speed reaching 30-40 kmph gusting to 50 kmph is prevailing over adjoining areas of northwest Bay of Bengal and likely to increase becoming gale wind speed reaching 60-70 kmph gusting to 80 kmph over the same region from evening of 28th till 29th morning and decrease gradually becoming squally wind speed reaching 35-45 kmph gusting to 55 kmph on 30th October morning.

Along & Off Andhra Pradesh & Yanam Coasts: Gale wind speed reaching 60-70 kmph gusting to 80 kmph is prevailing along & off Andhra Pradesh & Yanam (of Puducherry) coasts, becoming 90-100 kmph gusting to 110 kmph from 28th evening to early hours of 29th October. It would decrease gradually to 60-70 kmph gusting to 80 kmph by 29th October noon, along and off North Andhra Pradesh and Yanam coasts. The winds would be squally wind speed reaching 45-55 kmph gusting 65 kmph by 29th October evening and decrease gradually thereafter over the region.

Along & Off Tamil Nadu & Puducherry Coasts: Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph is prevailing along & off Tamil Nadu - Puducherry coast and it is likely to decease gradually.

Along & Off Odisha Coast: Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph is prevailing along & off south Odisha coast, it is likely to increase becoming gale wind speed reaching, 60-70 kmph gusting to 80 kmph from 28th evening to early hours of 29th October early hours. It would be squally wind speed reaching 45-55 kmph gusting to 65 kmph along and off south Odisha coast till 29th October evening and decrease gradually thereafter. Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail along and off north Odisha coast from 28th evening to early hours of 29th October, 40-50 kmph gusting to 60 kmph till 29th October evening, and decrease gradually thereafter.

Along & Off West Bengal coast: Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is likely to prevail along & off west Bengal coast from 28th to 29th October.

(ii) Sea conditions:

Sea condition is very likely to be very high over westcentral Bay of Bengal till 29th early hours. Thereafter, it is likely to improve becoming high to very rough by noon of 29th and becoming very rough to rough during subsequent 12 hours. Moderate to rough sea conditions is prevailing over adjoining areas of northwest Bay of Bengal. It is likely to worsen becoming very rough to high till 29th morning and thereafter gradually improve becoming rough till 30th morning.

Along & Off Andhra Pradesh & Yanam Coasts: Sea condition is likely to be high to very high till 29th October early hours. Thereafter, it would improve becoming high till noon of 29th October and very rough to rough during subsequent 12 hours.

Along & Off Odisha Coast: Sea condition is high from 28th morning to till 29th October early hours. It is likely improve gradually becoming very rough to rough during subsequent 12 hours.

Along & Off Tamil Nadu & Puducherry Coasts: Sea condition is very likely to be rough to very rough along & off Tamil Nadu - Puducherry coast till 28th October evening.

Along & Off West Bengal coast: Sea condition is very likely to be rough along & off West Bengal coasts during 28th-29th October and improve thereafter.

- (iii) Impact Expected and Action Suggested due to heavy rain and strong winds (Andhra Pradesh & Yanam of Puducherry [Tirupati, Annamayya, Nellore, YSR Kadapa, Prakasham, Bapatla, Chittor, Nadyal, Palnadu, Guntur, Krishna, East & West Godavari, Konaseema, Kakinada, Anakapalli, Alluri Seetharamaraju, Visakhapatnam, Eluru, Vizianagaram, Srikakulam, Parvathi Puram Manyam] and South Odisha coasts [Ganjam, Gajapati, Rayagada, Malkangiri, Koraput, Nawarangpur, Kalahandi, Kandhamal, Nuapada, Boudh])
 - Major damage to thatched houses/ huts. Roof tops may blow off. Unattached metal sheets may fly.
 - > Damage to power and communication lines.
 - Major damage to Kutcha and some damage to Pucca roads. Flooding of escape routes.
 - ➤ Breaking of tree branches, uprooting of large avenue trees. Large-scale damage to banana and papaya trees. Large dead limbs blown from trees.
 - ➤ Damage to paddy crops, horticultural and standing crops and orchards due to inundation & winds.
 - Inundation of low-lying areas in coastal districts due to heavy rainfall and flash flood
 - ➤ Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas.
 - Occasional reduction in visibility due to heavy rainfall.
 - Disruption of traffic due to water logging and squally winds
 - ➤ Localized Landslides/Mudslides It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)
 - Damage to embankments/ salt pans.
 - ➤ Possibility of coastal flooding and coastal erosion is also very likely over coastal districts of north Andhra Pradesh & Yanam.

Action suggested:

- Total suspension of fishing operations.
- Coastal hutment dwellers to be moved to safer places. People in affected areas to remain indoors.
- Movement in motor boats unsafe.
- Judicious regulation of offshore/onshore operations.
- People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- Take safe shelters; do not take shelter under trees, as there could be lightning.
- ➤ In case of expected lightning, unplug electrical/ electronic appliances, immediately, get out of water bodies and keep away from all the objects that conduct electricity.
- ➤ Tourism and recreational activities to be regulated.
- Surface transport and helicopter services to be regulated.

Warnings in association with system over Arabian Sea:

(i) Wind warning:

Squally wind with speed reaching 45-55 gusting to 65 kmph prevailing around the system center and continue to prevail over Eastcentral and adjoining Southeast Arabian Sea till 28th October.

Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph is very likely to prevail over northeast Arabian Sea and along & off Maharashtra and Gujarat coasts till 30th October.

(ii) Sea condition:

Sea Condition is likely to be rough to very rough over Eastcentral Arabian Sea till 30th October and over Southeast Arabian Sea till 28th October evening.

Sea Condition is likely to be rough over Lakshadweep & Comorin Area and along & off Karnataka and Kerala coasts till 28th October evening.

Sea Condition is likely to be moderate to rough over northeast Arabian Sea and along & off Maharashtra and Gujarat coasts till 28th October, rough to very rough during 29th to 30th October.

(iii) Fishermen warnings:

Fishermen are advised not to venture into Eastcentral Arabian Sea till 29th, Southeast Arabian Sea till 28th October, Lakshadweep & Comorin Area and along & off Karnataka and Kerala coasts till 28th October, northeast Arabian Sea and along & off Maharashtra and Gujarat coasts till 30th October.

(iv) Impact Expected and Action Suggested due to heavy rain and strong winds (Kerala, coastal Karnataka, Konkan & Goa and Gujarat state)

Impact expected:

- ➤ Breaking of tree branches. Strong wind and heavy rain may damage plantation, horticulture and standing crops.
- Minor damage to kutcha houses/walls, huts and roads due to strong winds and heavy rain.
- Road and rail traffic may be affected due to heavy rain.
- ➤ There could be localised flash floods, landslides, mudslides, landslips, water logging, inundation and flooding over low lying areas.
- Occasional reduction in visibility due to heavy rainfall.
- Surface & Helicopter services may be regulated.
- > Small ships & country boats would be affected due to strong wind and heavy rain.

Action suggested:

- ➤ People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- > Take safe shelters; do not take shelter under trees, as there could be lightning.
- ➤ In case of expected lightning, unplug electrical/ electronic appliances, immediately, get out of water bodies and keep away from all the objects that conduct electricity.
- Tourism and recreational activities to be regulated.
- Surface transport and helicopter services to be regulated.











































































