

Government of India Ministry of Earth Sciences India Meteorological Department

Press Release Date: 16th November, 2023 Time of Issue: 1300 hours IST

Subject: i) Deep Depression over Westcentral Bay of Bengal likely to intensify into a Cyclonic Storm during next 24 hours and cross Bangladesh coast between Mongla and Khepupara with wind speed 60-70 kmph gusting to 80 kmph by the early hours of 18th November, 2023.

ii) A fresh easterly wave is likely to cause isolated heavy rainfall spell over Tamil Nadu and Kerala on 19th & 20th November, 2023.

Rainfall recorded during past 24 hours till 0830 hours IST of today:

- ❖ **Heavy rainfall** observed at isolated places over coastal Tamil Nadu.
- ❖ Significant Rainfall Amount (in cm): Tamil Nadu:. Tiruvallur: Pooneri-8, Kanniyakumari: Sivalogam-7.

Weather Systems:

- ❖ Yesterday's **Depression** over Westcentral Bay of Bengal intensified into a **Deep Depression** over the same region at at 0530 hours IST of today. It moved north-northeastwards with a speed of 17 kmph during past 6 hours, and lay centred at 0830 hours IST of today, the 16th November over Westcentral Bay of Bengal near latitude 17.4°N and longitude 87.0°E, about 390 km east-southeast of Visakhapatnam (Andhra Pradesh), 320 km south-southeast of Paradip (Odisha), 460 km south-southwest of Digha (West Bengal) and 610 km south-southwest of Khepupara (Bangladesh).
 - It is likely to continue to move north-northeastwards, intensify into a Cyclonic Storm during next 24 hours and cross Bangladesh coast between Mongla and Khepupara with wind speed 60-70 kmph gusting to 80 kmph by the early hours of 18th November, 2023. **(refer Annexure I & II for details).**
- ❖ An upper air **cyclonic circulation** lies over Southwest Bay of Bengal & adjoining Sri Lanka and a **trough** runs from this cyclonic circulation to the cyclonic circulation associated with the Deep Depression over Westcentral Bay of Bengal in the lower tropospheric levels.

Forecast & Warnings associated with Deep Depression:

(i) Rainfall Warning: (Annexure III)

- Light to moderate rainfall at many places with isolated heavy rainfall is likely over coastal districts of West Bengal on 16th & 17th and over coastal districts of north Odisha on 16th November.
- Light to moderate rainfall at many places with isolated heavy rainfall is likely over Nagaland, Manipur, Mizoram & Tripura during 16th to 18th November with very heavy rainfall at isolated places over Mizoram & Tripura on 17th November.
- Light to moderate rainfall at many places with isolated heavy rainfall is likely over south Assam and east Meghalaya on 17th & 18th November.

(ii) Fishermen Warning: (Annexure IV)

Fishermen are advised not to venture into

- Southwest Bay of Bengal on 16th November
- Westcentral Bay of Bengal during 16th to 17th November
- North Bay of Bengal during 16th to 18th November
- Along & off Andhra Pradesh Coast during 16th to 17th November
- Along & off Odisha coast during 16th-17th November
- Along & off West Bengal and Bangladesh coasts during 16th to 18th November

(iii) Damage Expected & Action Suggested for coastal areas of Odisha & West Bengal:

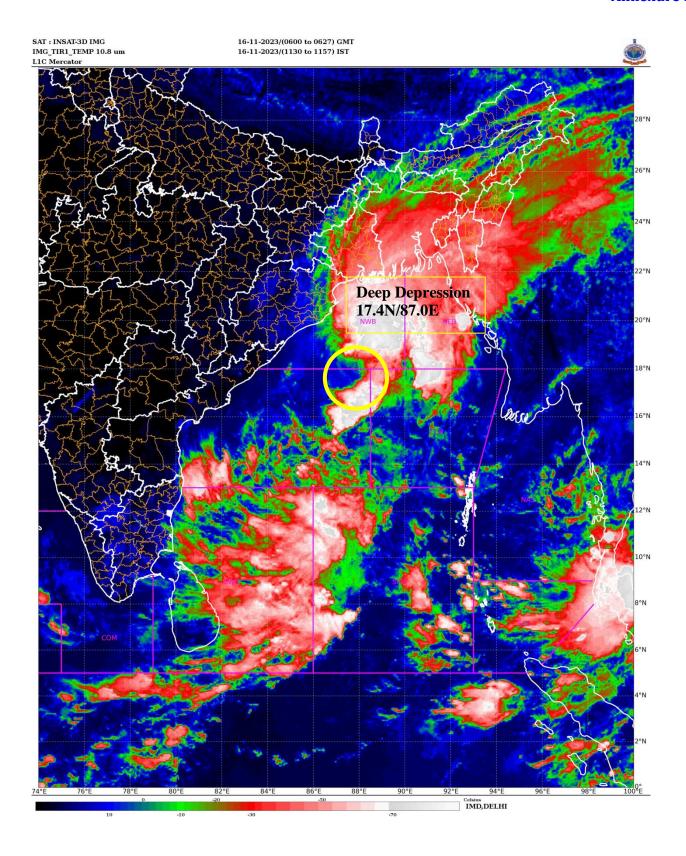
- Minor damage to loose/unsecured structures.
- Minor damage to small trees like Banana. Papaya and Drumstick and ripe paddy crops.
- Partial Damage to standing crops in coastal areas of Odisha & west Bengal.
- Minor damage to Kutcha embankments.

Forecast & Warnings associated with Easterly Wave:

Light to moderate rainfall at some places with **isolated heavy rainfall** is very likely over Tamil Nadu on 16th, 17th, 19th & 20th and Kerala on 20th November.

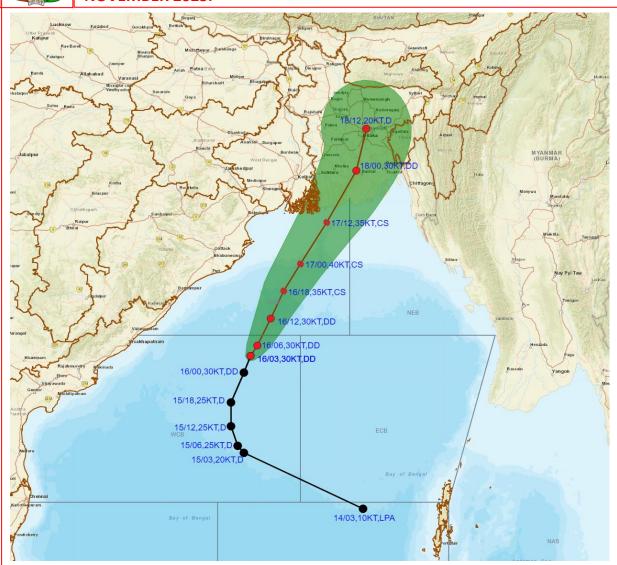
No significant weather likely over rest parts of the country.

For more details kindly refer: https://mausam.imd.gov.in/responsive/cycloneinformation.php
and https://mausam.imd.gov.in/responsive/cycloneinformation.php





OBSERVED AND FORECAST TRACK AND INTENSITY ALONGWITH CONE OF UNCERTAINTY IN ASSOCIATION WITH DEEP DEPRESSION OVER WESTCENTRAL BAY OF BENGAL BASED ON 0300 UTC (0830 IST) OF 16TH **NOVEMBER 2023.**



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)

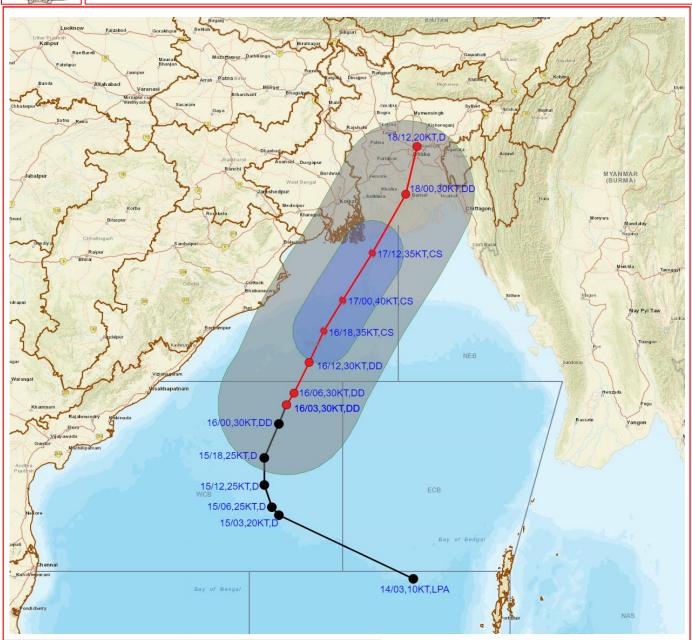
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT) ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
SuCS: SUPER CYCLONIC STORM 2 120 KT)

LESS THAN 34 KT 34.47 KT ≥ 48 KT OBSERVED TRACK FORECAST TRACK CONE OF UNCERTAINTY

Forecast	DISTANCE(KM) AND DIRECTION FROM STATIONS			
Date and Time	PARADIP (CWR)	DIGHA	KHEPUPARA	CHITTAGONG (AMBAGAN)
17.11.23/0000	200, E	190, SSE	270, SW	420, SW
17.11.23/1200	300, ENE	190, E	120, SW	280, WSW
18.11.23/0000	460, NE	310, ENE	90, N	170, WNW



OBSERVED AND FORECAST TRACK AND INTENSITY ALONG WITH QUADRANT WIND DISTRIBUTION IN ASSOCIATION WITH DEEP DEPRESSION OVER WESTCENTRAL BAY OF BENGAL BASED ON 0300 UTC (0830 IST) OF 16TH NOVEMBER 2023.



DATE/TIME IN UTC IST=UTC + 0530

L: LOW PRESSURE AREA

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SuCS: SUPER CYCLONIC STORM | ≥ 120 KT)

LESS THAN 34 KT

6 34.47 KT

≥ 48 KT

OBSERVED TRACK FORECAST TRACK

CONE OF UNCERTAINTY

AREA OF MAXIMUM SUSTAINED WIND SPEED:

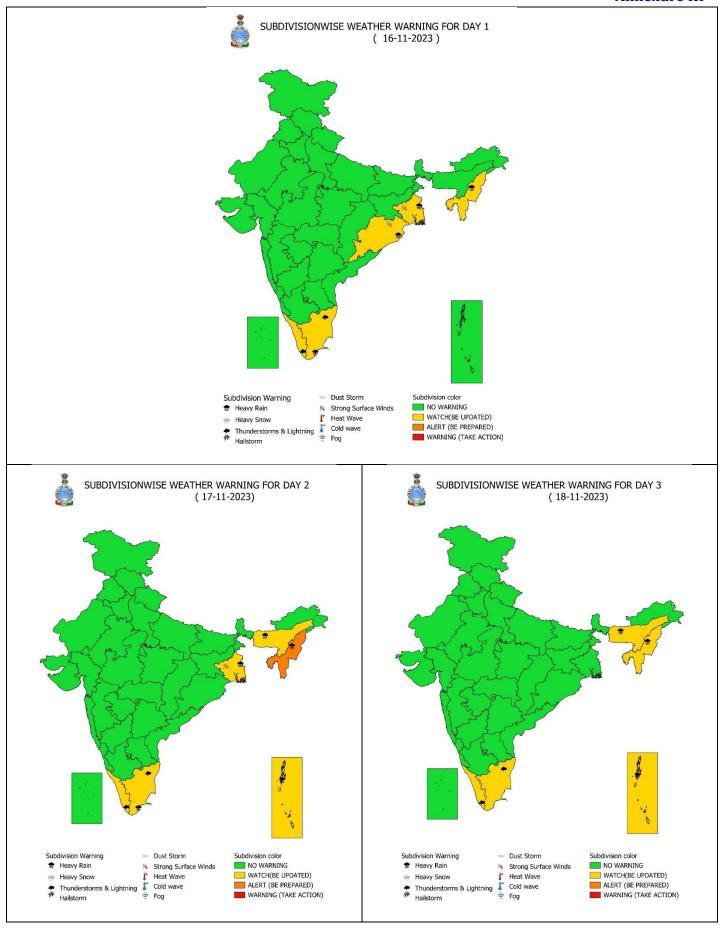
28-33 KT (52-61 KMPH) 34-49 KT (62-91 KMPH)

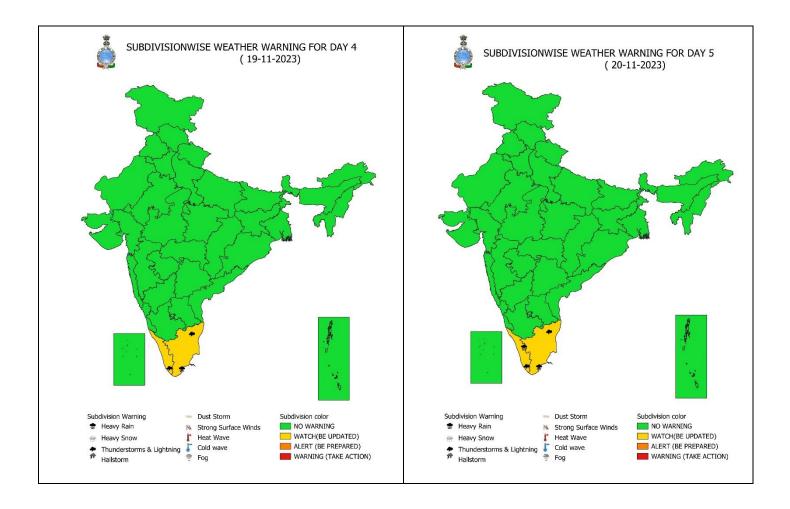
50-63 KT (92-117 KMPH) ≥ 64 KT (≥118 KMPH)

IMPACT OVER THE SEA

IMPACI 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	

Annexure III





Impact & Action Suggested due to very heavy rainfall over Manipur, Mizoram & Tripura on 17th November.

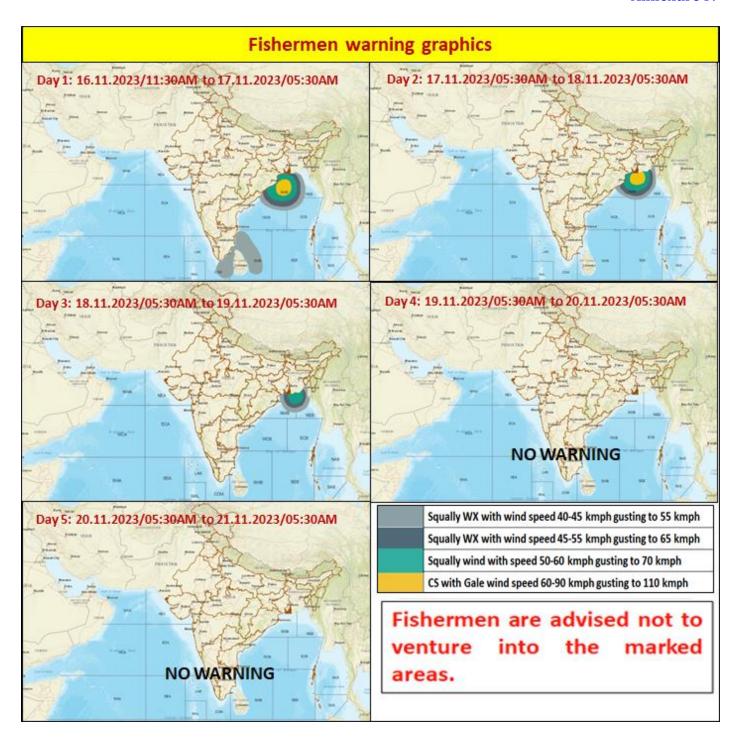
A. Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- ❖ Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides
- ❖ Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC).

B. Action Suggested

- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- ❖ Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.

Annexure IV



Legends:

- **♦ Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4 mm.
- ❖ Obsy: Observatory; AWS: Automatic Weather Station; dist: District: NH: National Highway; KVK: Krishi Vigyan Kendra; DVC: Damodar Valley Corporation
- **Region wise classification of meteorological Sub-Divisions:**
 - Northwest India: Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
 - **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
 - **East India:** Bihar, Jharkhand, Sub-Himalaya West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
 - Northeast India: Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
 - West India: Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
 - South India: Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

