



India Meteorological Department
(Ministry of Earth Sciences)

NATIONAL BULLETIN NO.6 (BOB/01/2024)

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DATED: 25.05.2024

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912, 2436 3260)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)

CHIEF SECRETARY, GOVT. WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674 -2536660)

CHIEF SECRETARY, GOVT. OF ANDHRA PRADESH (FAX NO. 0863-2441029, 08645-246600)

CHIEF SECRETARY, GOVT. OF TAMIL NADU (FAX NO. 044-25672304)

CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575, 2334145)

CHIEF SECRETARY, GOVT. OF TRIPURA (FAX NO. 0381-2414013, 2413200)

CHIEF SECRETARY, GOVT. OF MIZORAM (FAX NO. 0389-2322745, 2320588)

CHIEF SECRETARY, GOVT. OF MANIPUR (FAX NO. 0385-2452629)

CHIEF SECRETARY, GOVT. OF NAGALAND (FAX NO. 0370-2270057)

CHIEF SECRETARY, GOVT. OF ASSAM (FAX NO. 0361-2260900)

CHIEF SECRETARY, GOVT. OF MEGHALAYA (FAX NO. 0364-2225978)

Sub: Deep Depression over Eastcentral Bay of Bengal (Cyclone Alert for West Bengal Coast)

The Depression over Eastcentral Bay of Bengal moved north-northeastwards with a speed of 15 kmph during past 06 hours, intensified into a Deep Depression and lay centered at 0530 hrs IST of 25th May, 2024 over Eastcentral Bay of Bengal near latitude 17.6°N and longitude 89.7°E, about 490 km south of Khepupara (Bangladesh), about 380 km south-southeast of Sagar Islands (West Bengal) and 530 km south-southeast of Canning (West Bengal).

It is very likely to continue to move north-northeastwards and intensify into a **Cyclonic Storm** over eastcentral Bay of Bengal during next 12 hours. Subsequently, it would move nearly northwards, intensify into a **Severe Cyclonic Storm** by 26th May morning. Continuing to move nearly northwards, thereafter it is very likely to **cross Bangladesh and adjoining West Bengal coasts between Sagar Island and Khepupara by 26th May midnight as a Severe Cyclonic Storm with wind speed of 110-120 gusting to 135 kmph.**

Forecast track and intensity are given in the following table:

Date/Time (IST)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
25.05.24/0530	17.6/89.7	50-60 gusting to 70	Deep Depression
25.05.24/1130	18.1/89.8	60-70 gusting to 80	Cyclonic Storm
25.05.24/1730	18.5/89.8	70-80 gusting to 90	Cyclonic Storm
25.05.24/2330	19.1/89.7	80-90 gusting to 100	Cyclonic Storm
26.05.24/0530	19.9/89.6	100-110 gusting to 120	Severe Cyclonic Storm
26.05.24/1730	21.2/89.5	110-120 gusting to 135	Severe Cyclonic Storm
27.05.24/0530	22.5/89.5	70-80 gusting to 90	Cyclonic Storm
27.05.24/1730	23.6/89.7	50-60 gusting to 70	Deep Depression
28.05.24/0530	24.7/90.1	35-45 gusting to 55	Depression

Warnings (Graphics Attached):

Heavy Rainfall Warning:

- (a) **West Bengal:** Light to moderate rainfall at most places with heavy to very heavy rainfall at a few places is likely over coastal districts of West Bengal on 26th & 27th with isolated extremely heavy rainfall over coastal districts of West Bengal on 26th May. Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places likely over eastern districts of Sub-Himalayan West Bengal on 27th and 28th May.
- (b) **Odisha:** Light to moderate rainfall at most places with isolated heavy rainfall likely over North Coastal Odisha on 25th & 26th May.
- (c) **Northeastern States:** Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places is likely over Mizoram, Tripura and South Manipur on 26th and over Assam, Meghalaya, Arunachal Pradesh, Nagaland, Mizoram, Manipur & Tripura on 27th & 28th May. Isolated extremely heavy rainfall is also likely over Assam, Meghalaya on 27th & 28th May, Arunachal Pradesh on 28th May and Mizoram & Tripura on 27th May.
- (d) **Andaman Islands:** Light to moderate rainfall at most places with heavy rainfall at isolated places over north Andaman Islands on 25th May.

Wind Warning:

(a) Bay of Bengal:

- ❖ Squally wind speed reaching 50-60 kmph gusting to 70 kmph is prevailing over central Bay of Bengal. It is likely to become Gale wind speed reaching 60-70 kmph gusting to 80 kmph from evening to today, the 25th May.
- ❖ It would increase further and extend to adjoining areas of North Bay of Bengal becoming 70-80 kmph gusting to 90 kmph from evening of today, the 25th May and 100-110 kmph gusting to 120 kmph over North Bay of Bengal from morning and 110-120 kmph gusting to 135 kmph from evening of 26th May. Gale wind speed reaching 70-80 kmph gusting to 90 kmph is likely over adjoining central Bay of Bengal from 26th morning for subsequent 24 hours and decrease thereafter.

(b) Along & off Bangladesh and West Bengal & adjoining Odisha coasts:

- ❖ Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely along & off Bangladesh and West Bengal & adjoining North Odisha coasts from 25th May evening It is likely to increase becoming gale wind speed reaching 60-70 kmph gusting to 80 kmph from morning of 26th May and 100-120 kmph gusting to 135 kmph along & off Bangladesh and adjoining West Bengal coasts from evening of 26th evening for subsequent 12 hours.

(c) Along & off Odisha coasts:

Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely from 25th May evening to 27th May morning

(d) South Bay of Bengal, Andaman Islands and Andaman Sea:

Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely over Andaman Islands and North Andaman Sea during next 12 hours.

(e) Northeastern States:

Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely over Mizoram and Tripura and 40-50 kmph gusting to 60 kmph is likely over South Assam and Meghalaya on 27th May.

Storm surge warning:

Storm surge of about 1 meter above astronomical tide is likely to inundate low lying areas of coastal West Bengal and 3-4 m above astronomical tide likely to inundate low lying areas of coastal Bangladesh around the time of landfall.

Sea condition warning:

(a) Central and North Bay of Bengal:

Rough to very rough sea condition is prevailing over central Bay of Bengal. It would become high over central Bay of Bengal on 25th May & 26th May and High to Very High over North Bay of Bengal from 25th evening till 27th May morning.

(b) Along & off Bangladesh and West Bengal coasts

Rough to very rough sea condition is likely along & off Bangladesh and West Bengal coasts from 25th May evening. It would become high to very high along & off Bangladesh and West Bengal coasts from 26th morning onwards till 27th May morning.

(c) Along & off North Odisha coast:

Rough to very rough sea condition is likely over along & off North Odisha coast from 25th May evening to 27th May morning.

(d) Along & off Andaman Islands:

Rough to very rough sea condition is likely over Andaman Islands and North Andaman Sea during next 12 hours.

Damage Expected over South & North 24 Parganas districts of west Bengal:

- Major damage to thatched houses/ huts. Possibilities of damage to vulnerable structure.
- Unattached metal sheets may fly.
- Breaking of tree branches, uprooting of trees. Major damage to banana and papaya trees. Dead limbs may blow off from trees.
- Damage to power and communication lines due to breaking of branches and uprooting of trees.
- Damage to Kutcha and minor damage to Pucca roads due to heavy rain.
- Damage to paddy crops, horticultural crops and orchards.
- Inundation of low lying areas and localized flooding
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic due to water logging and squally winds

Action Suggested for North & South 24 Parganas districts of West Bengal:

- Total suspension of fishing operations.
- Surface transport and shipping operations need to be regulated
- Onshore & Offshore operation need to be regulated as per guidelines
- Coastal hutment dwellers to be in safer places.
- People in affected areas to remain indoors.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.

Fishermen Warning (graphics attached):

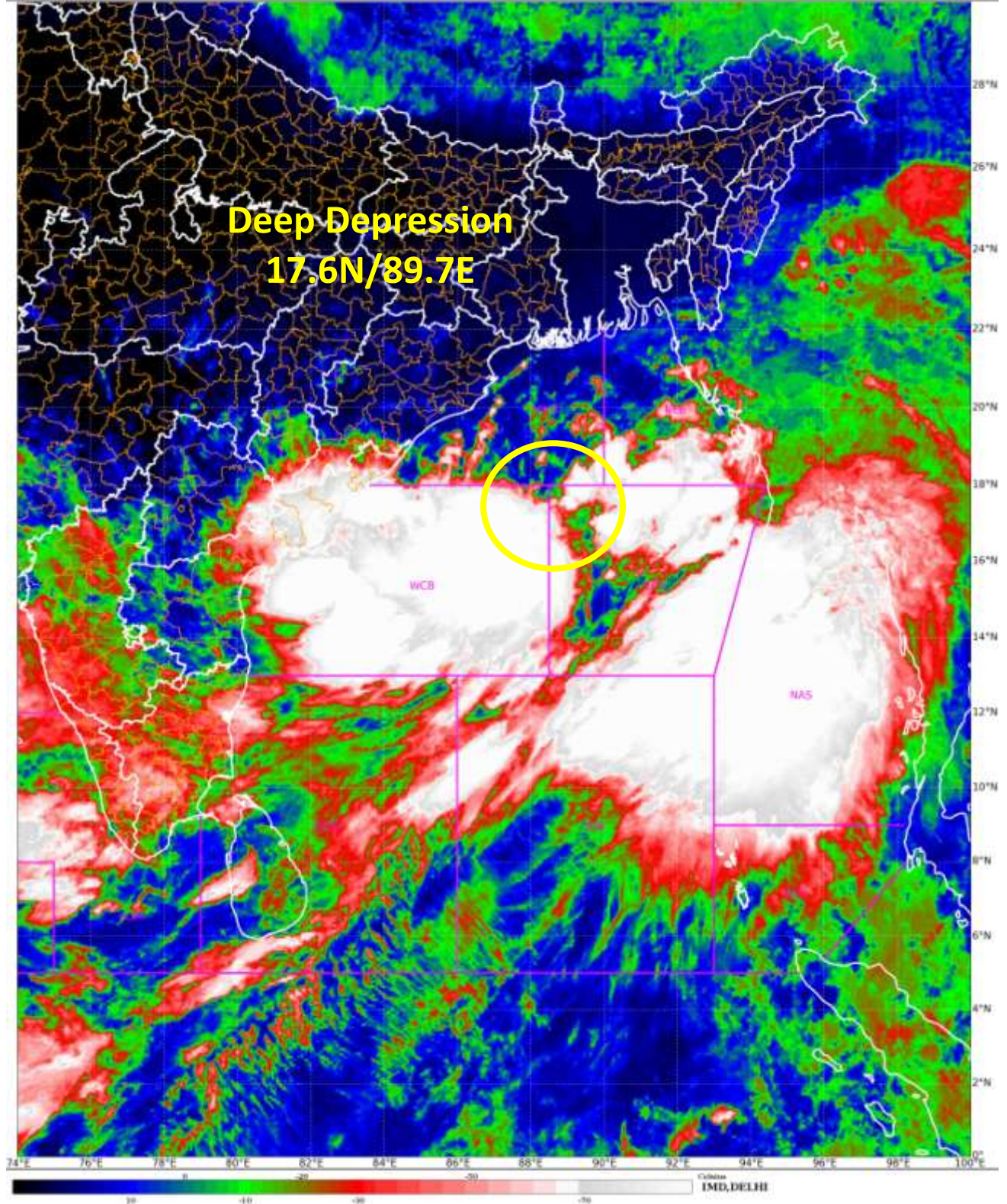
Fishermen are advised not to venture into south Bay of Bengal and Andaman Sea till 27th May, central Bay of Bengal till 26th May and North Bay of Bengal from 25th May till 27th May. Fishermen out at sea are advised to return to the coast.

The system is under continuous surveillance and the next message will be issued at 1130 hours IST of today, the 25th May, 2024.

(Shashi Kant)

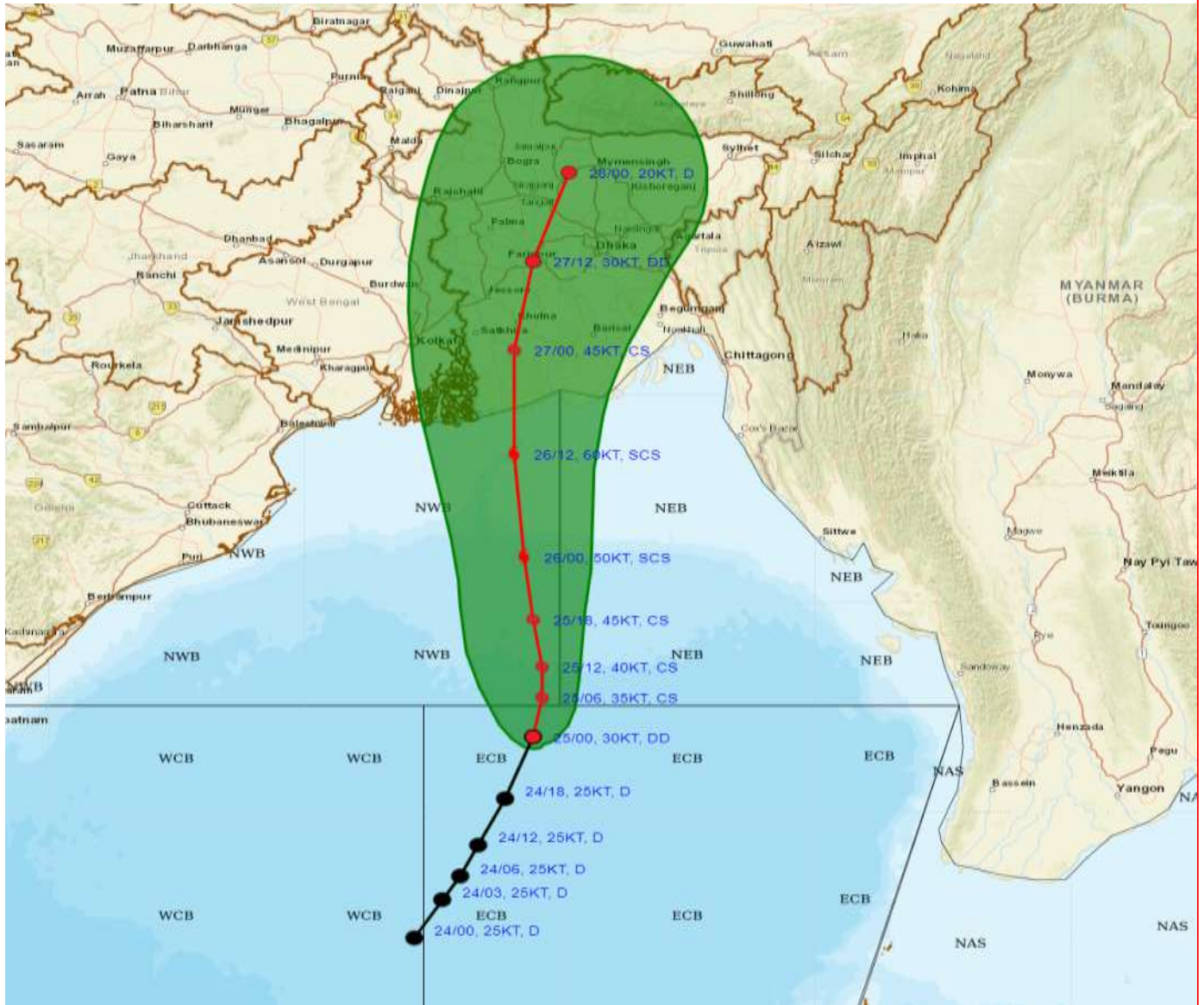
Scientist D, Cyclone Warning Division, New Delhi

Copy to: ACWC Kolkata/ ACWC Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/MO Port Blair/RMC Guwahati





FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY IN ASSOCIATION WITH DEEP DEPRESSION OVER EASTCENTRAL BAY OF BENGAL BASED ON 0000 UTC (0530 IST) OF 25TH MAY 2024.



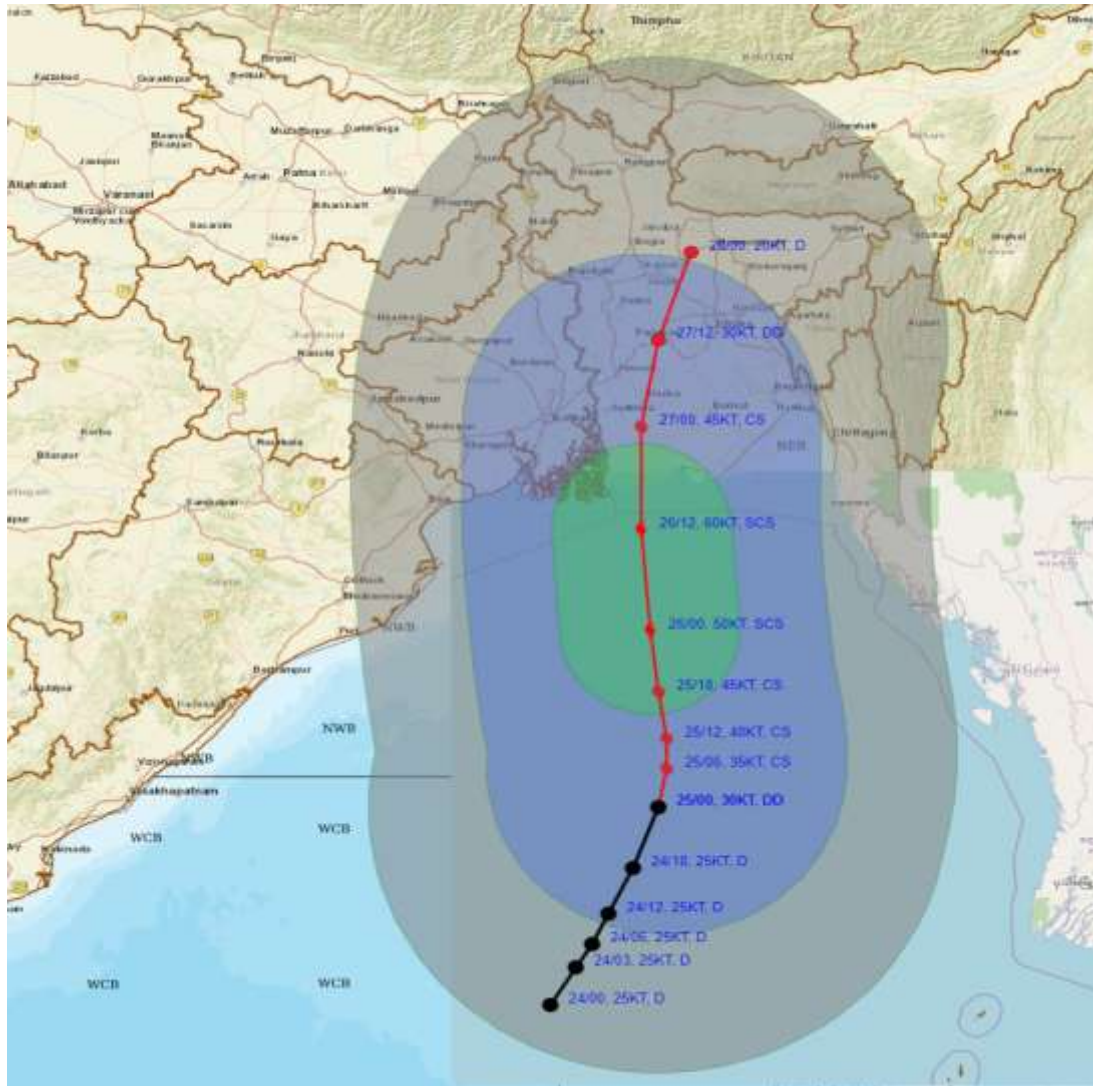
DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM (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 FROM STATIONS		
Date and Time (UTC)	Canning	Khepupara	SAGAR ISLAND
25.05.24/0000	520, SSE	490, S	480, SSE
26.05.24/0000	270, SSE	240, SSW	250, SE
27.05.24/0000	100, ENE	100, NW	180, ENE



FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION IN ASSOCIATION WITH DEEP DEPRESSION OVER EASTCENTRAL BAY OF BENGAL BASED ON 0000 UTC (0530 IST) OF 25TH MAY 2024.



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

AREA OF MAXIMUM SUSTAINED WIND SPEED:

■ 28-33 KT (52-61 KMPH)

■ 34-49 KT (62-91 KMPH)

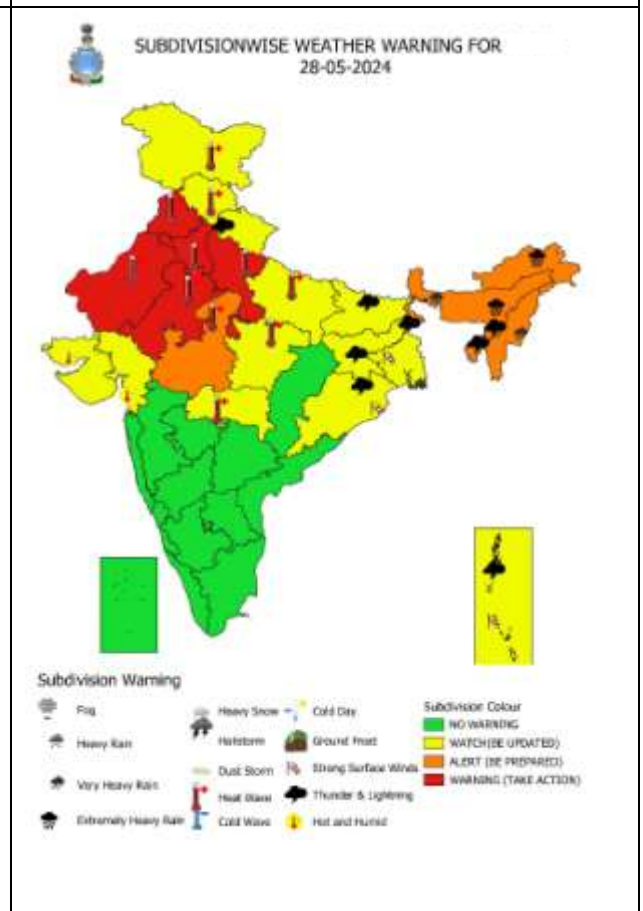
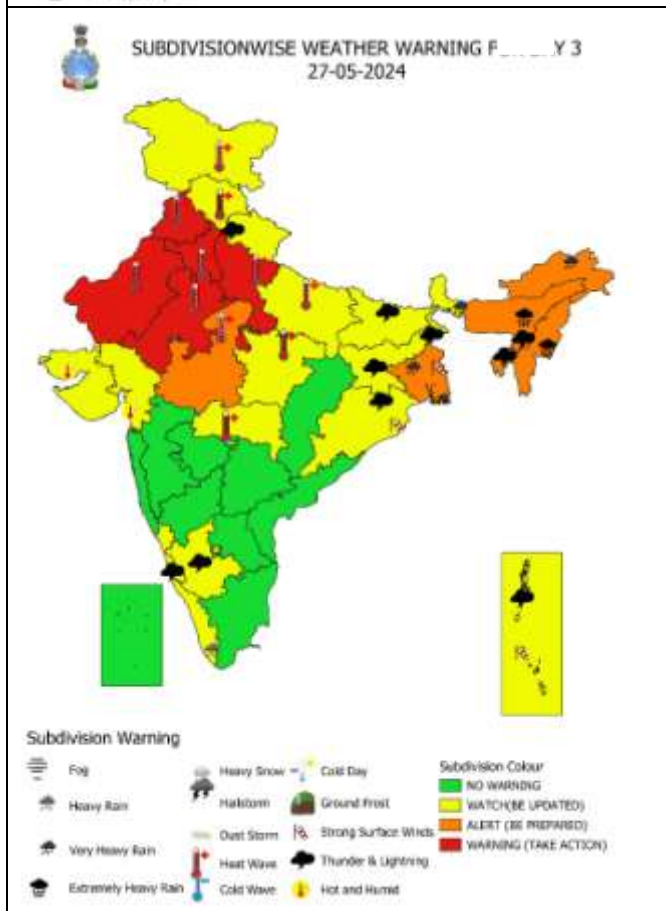
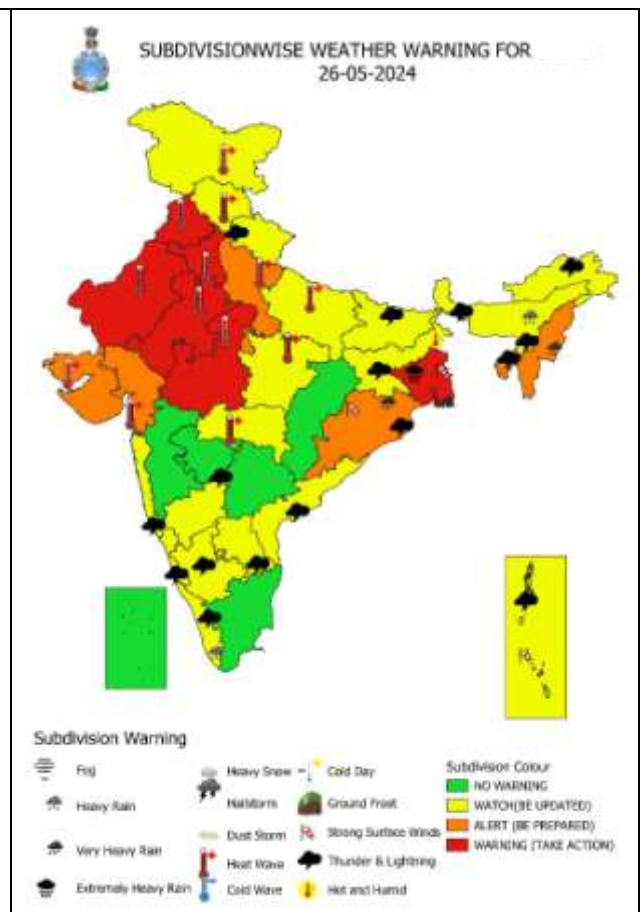
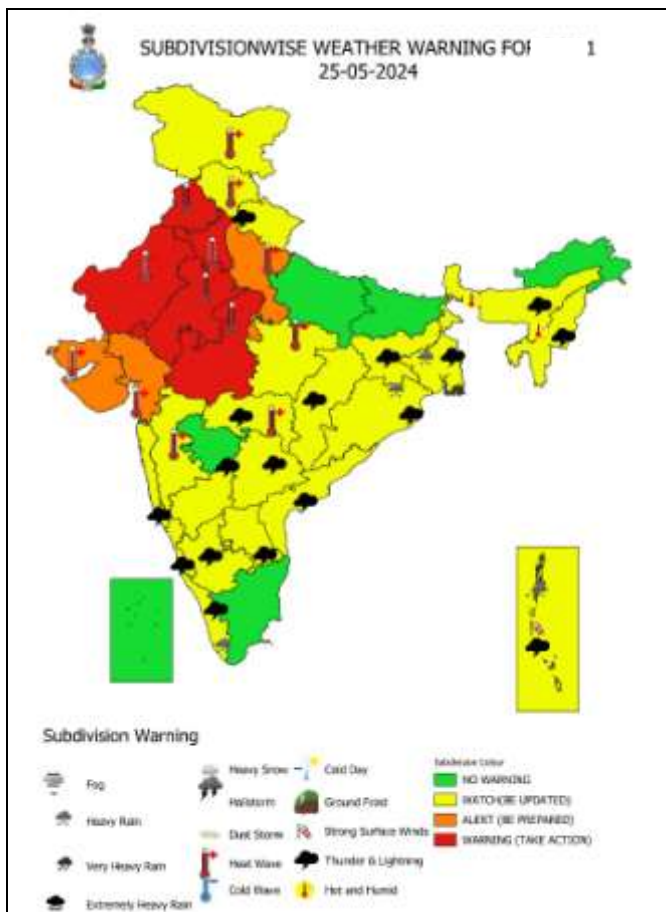
■ 50-63 KT (92-117 KMPH)

■ ≥ 64 KT (≥118 KMPH)

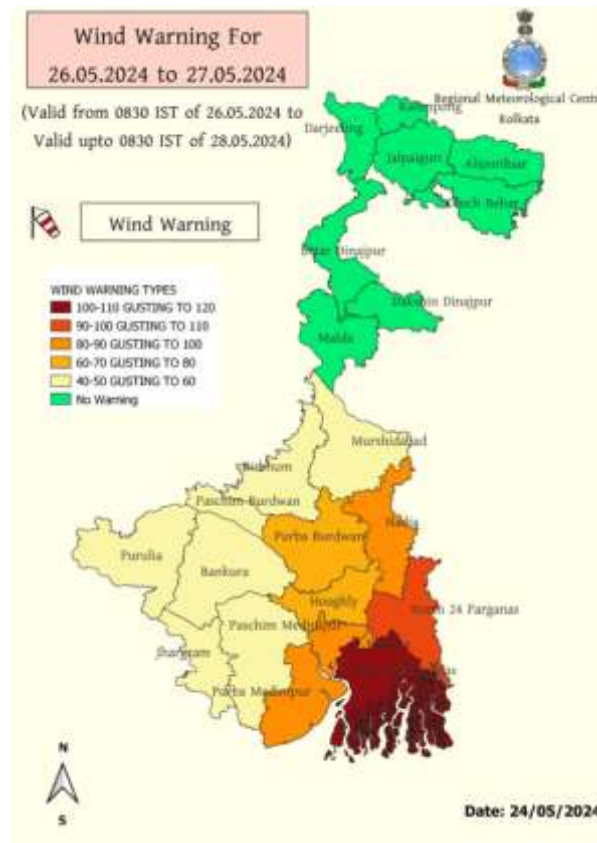
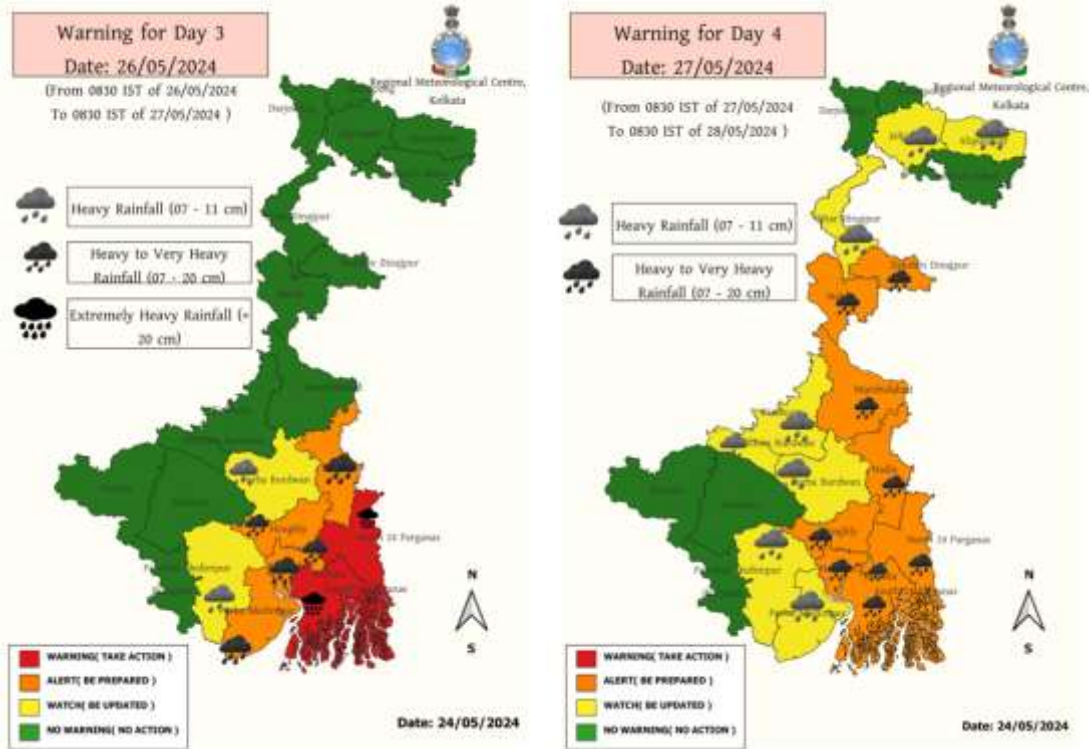
IMPACT OVER THE SEA

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

Heavy Rainfall Warning Graphics



Districtwise Warning Maps of West Bengal



Districtwise Warning Maps of Northeastern States (Assam and Mizoram)

Day 3 (26-05-2024)
Issue Date: 24-05-2024



Day 4 (27-05-2024)
Issue Date: 24-05-2024



District Level Heavy Rainfall Warning for Assam

Day 5 (28-05-2024)
Issue Date: 24-05-2024



District Level Heavy Rainfall Warning for Mizoram

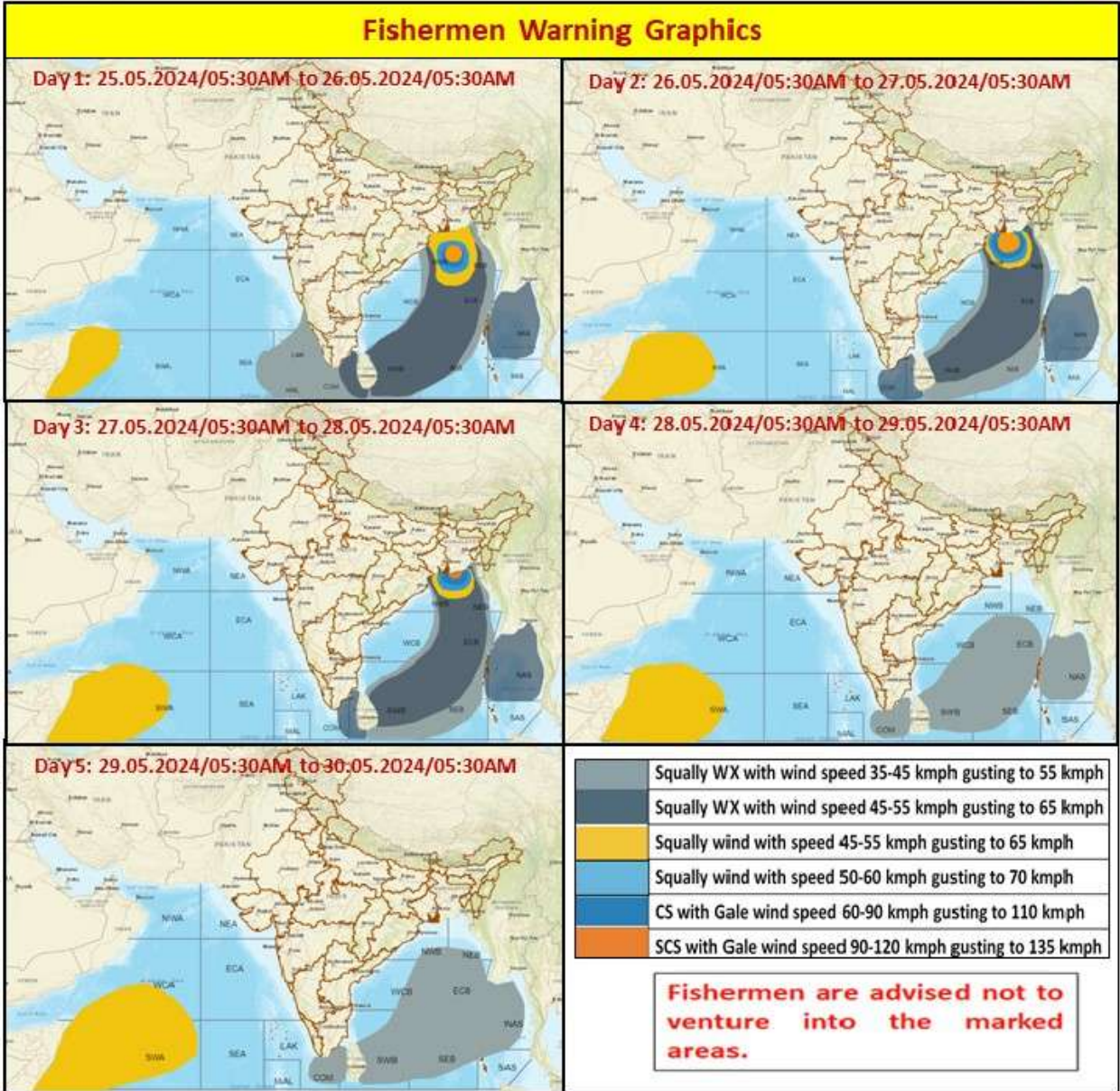
Issue Date:
24-05-2024
Day 4 (27-05-2024)



Issue Date:
24-05-2024
Day 5



Fishermen Warning Graphics



Storm Surge Warning Graphics

