

India Meteorological Department (Ministry of Earth Sciences)

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Sub: Cyclonic Storm "Remal" (pronounced as "Re-Mal") over Bangladesh and adjoining West Bengal

The Cyclonic Storm "Remal" (pronounced as "Re-Mal") over Bangladesh and adjoining West Bengal moved slowly northwards, with a speed of 05 kmph during past 06 hours and lay centered at 1430 hrs IST of today, the 27th May, 2024 over the same region, near **latitude** 23.1°N and **longitude 89.2°E** about 80 km north-northwest of Mongla (Bangladesh), 110 km north-northeast of Canning (West Bengal), 120 km east-northeast of Kolkata (West Bengal), 170 km northwest of Khepupara (Bangladesh) and 140 km southwest of Dhaka (Bangladesh)

The system is likely to move north-northeastwards, and gradually weaken further into a Deep Depression by night of today, the 27th May 2024.

Forecast track and intensity are given in the following table:

Date/Time	Position	Maximum sustained surface	Category of cyclonic	
(IST)	(Lat. ⁰ N/ long. ⁰ E)	wind speed (Kmph)	disturbance	
27.05.24/1430	23.1/89.2	60-70 gusting to 80	Cyclonic Storm	
27.05.24/1730	23.4/89.3	60-70 gusting to 80	Cyclonic Storm	
27.05.24/2330	24.2/90.0	50-60 gusting to 70	Deep Depression	
28.05.24/0530	24.8/90.7	35-45 gusting to 55	Depression	
28.05.24/1130	25.4/91.5	25-35 gusting to 45	Well Marked Low Pressure Area	

Warnings (Graphics Attached):

Heavy Rainfall Warning:

(a) **West Bengal**: Light to moderate rainfall at most places with **heavy to very heavy** rainfall at isolated places is likely over coastal and eastern districts of Gangetic West Bengal adjacent to Bangladesh on 27th 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) Northeastern States: Light to moderate rainfall at most places with heavy to very heavy rainfall at a few places is likely over Assam, Meghalaya, Arunachal Pradesh, Nagaland, Mizoram, Manipur & Tripura on 27th & 28th May. Isolated extremely heavy rainfall (≥ 20 cm) is also likely over Assam, Meghalaya, Mizoram & Tripura on 27th, and Arunachal Pradesh on 28th May.

Wind Warning:

(a) Bay of Bengal

❖ Gale wind speed reaching 60-70 kmph gusting to 80 kmph is prevailing over North Bay of Bengal. It is likely to decrease becoming squally wind speed reaching 50-60 kmph gusting to 70 kmph by night of 27th May.

(b) Along & off Bangladesh and West Bengal coasts

- ❖ Gale wind speed reaching 60-70 kmph gusting to 80 kmph will continue to prevail along & off Bangladesh and adjoining West Bengal coasts during next 3 hours. It is likely to decrease becoming squally wind reaching 45-55 kmph gusting to 65 kmph by night of 27th May and decrease gradually thereafter.
- ❖ Gale wind speed reaching 60-70 kmph gusting to 80 kmph will continue to prevail over Kolkata & Nadia during next 3 hours. The wind speed would decrease over these regions gradually thereafter.

(c) Northeastern States

Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely over South Assam and Meghalaya, Tripura and **40-50 kmph gusting to 60 kmph** is likely over & Mizoram, Manipur and remaining parts of Assam on 27th May. It would reduce to 40-50 gusting to 60 kmph over Assam & Meghalaya till noon of 28th May.

Sea condition warning:

(a) North Bay of Bengal

High Sea condition is likely over North Bay of Bengal till night and gradually improve becoming very rough to rough thereafter till night of 27th May. It would improve thereafter.

(b) Along & off Bangladesh and West Bengal coasts

High sea condition is likely along & off Bangladesh and West Bengal coasts till evening and gradually improve becoming very rough to rough thereafter till 27th May night. It would improve thereafter.

Damage Expected over West Bengal (South & North 24 Parganas, Kolkata, Nadia, Murshidabad districts) and Northeastern States (Assam, Meghalaya, Manipur, Tripura, Mizoram)

- ➤ Damage to vulnerable structures and thatched houses/ huts.
- Unattached metal sheets may fly.
- ➤ Breaking of tree branches, uprooting of small trees. Damage to banana and papaya trees.
- ➤ Partial damage to power and communication lines due to breaking of branches and uprooting of small 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 Damage Expected over West Bengal (South & North 24 Parganas, Kolkata, Nadia, Murshidabad districts) and Northeastern States (Assam, Meghalaya, Manipur, Tripura, Mizoram) on 27th May:

- People in vulnerable areas to move to safer places.
- ➤ People in affected areas to remain indoors.
- Total suspension of fishing operations on 27th May.

- ➤ Surface transport and shipping Onshore & Offshore operations over North Bay of Bengal need to be regulated till afternoon of 27th May
- Avoid going to areas that face the water logging problems often.

Fishermen Warning (graphics attached):

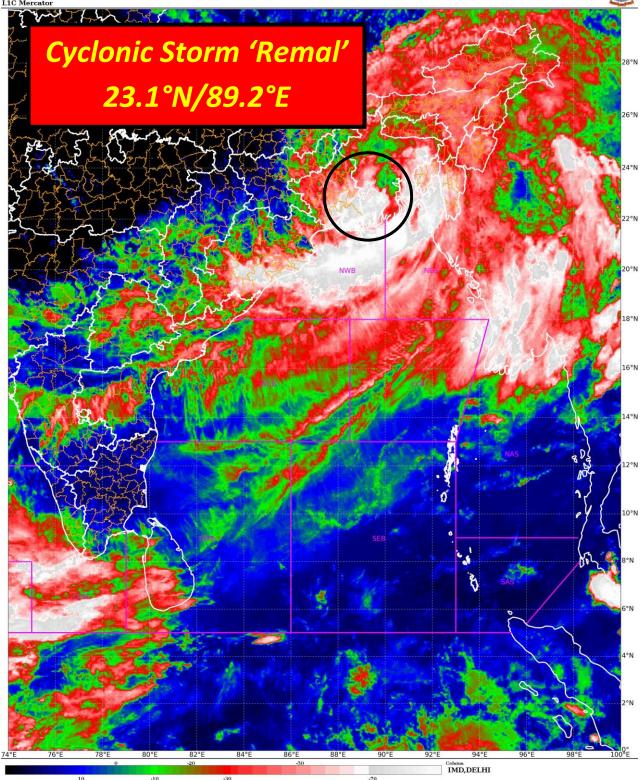
Fishermen are advised not to venture into North Bay of Bengal along and off West Bengal and Bangladesh coasts till 27th May evening.

The system is under continuous surveillance and the next message will be issued at 2030 hours IST of today, the 27^{th} May, 2024.

(D. R. Pattanaik) Scientist F, Cyclone Warning Division, New Delhi

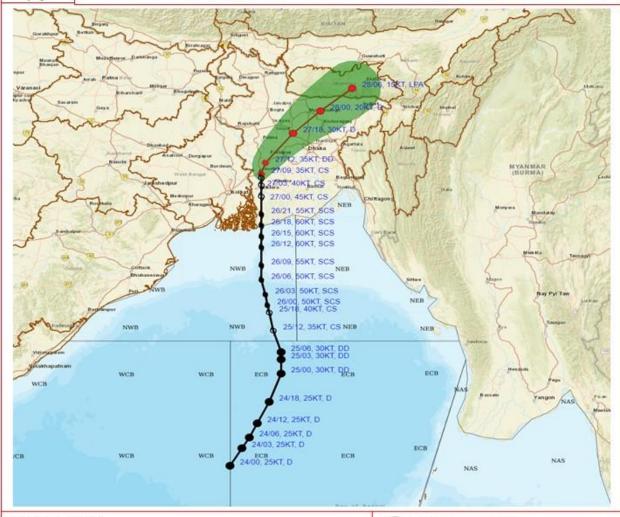
Copy to: ACWC Kolkata/ ACWC Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/MO Port Blair/RMC Guwahati







FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY IN ASSOCIATION WITH CYCLONIC STORM 'REMAL' OVER BANGLADESH AND ADJOINING WEST BENGAL BASED ON 0900 UTC (1430 IST) OF 27TH 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
9	34-47 KT
9	≥ 48 KT
	OBSERVED TRACK
	FORECAST TRACK
	CONE OF UNCERTAINTY

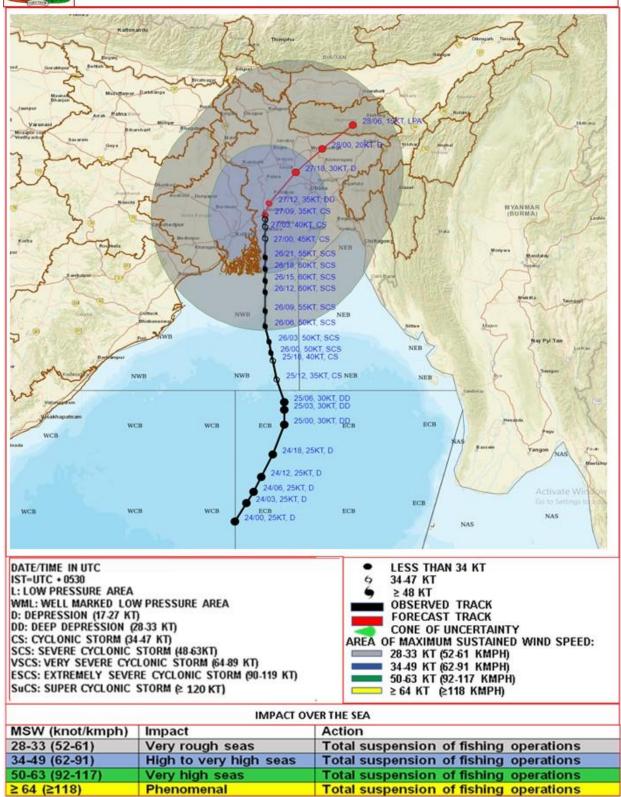
Forecast	DISTANCE (KM) AND DIRECTION FROM STATIONS				
Date and Time (UTC)	Canning	Khepupara	DHAKA	Mongla	
27.05.24/0900	110, NNE	170, NW	140, WSW	70, NNW	
27.05.24/1200	150, NNE	190, NNW	110, WSW	100, NNW	
27.05.24/1800	260, NNE	250, N	70, NW	190, NNE	
28.05.24/0000	360, NE	320, N	120, NNE	280, NNE	
28.05.24/0600	460, NE	410, NNE	220, NNE	380, NNE	



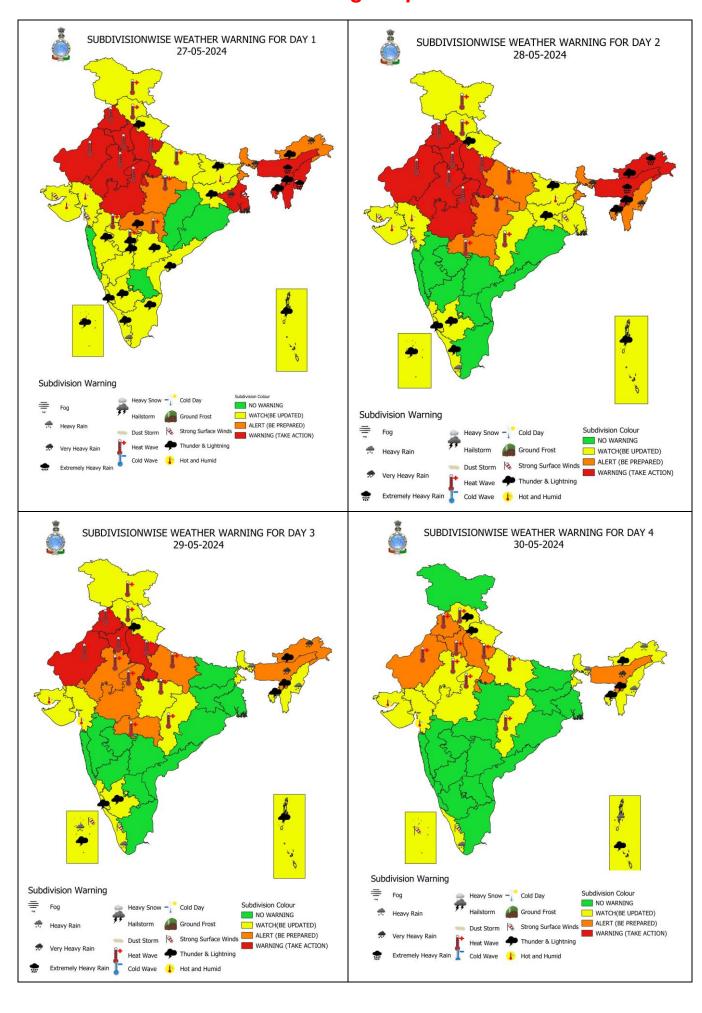
≥ 64 (≥118)

Phenomenal

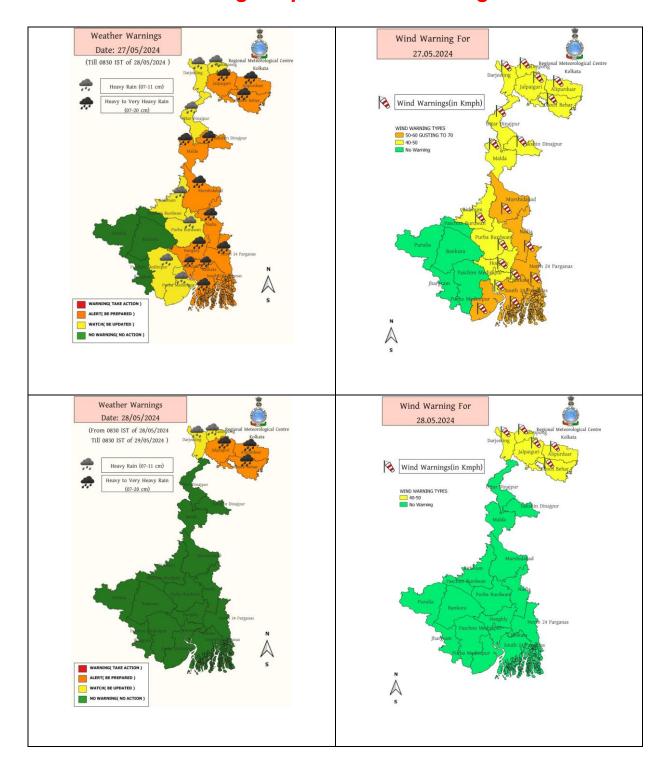
FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION IN ASSOCIATION WITH CYCLONIC STORM 'REMAL' OVER BANGLADESH AND ADJOINING WEST BENGAL BASED ON 0900 UTC (1430 IST) OF 27TH MAY 2024.



All India Warning Graphics

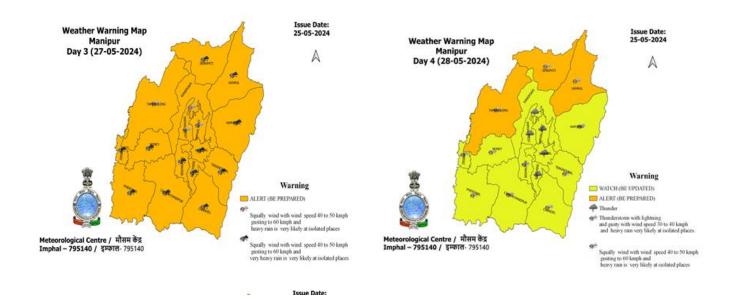


Warning Graphics of West Bengal

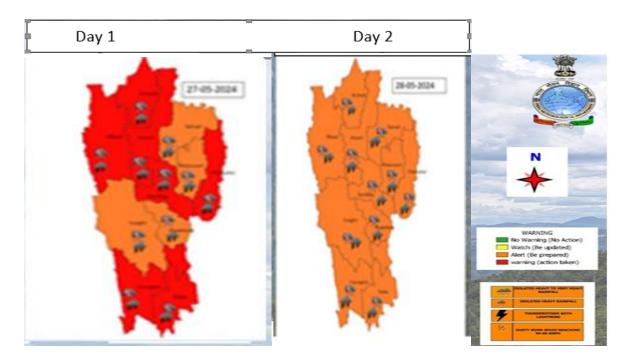


Warning Graphics of North-eastern States of India

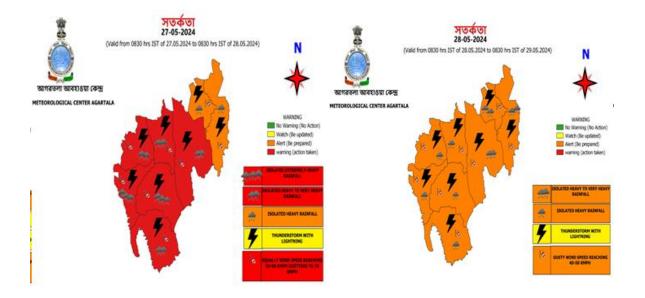
MANIPUR



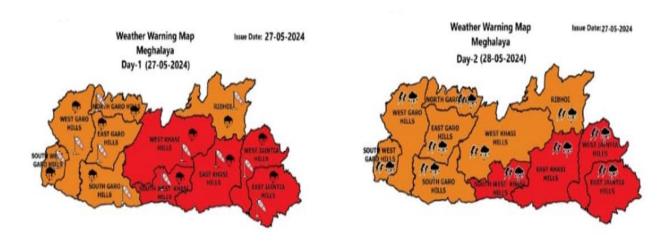
MIZORAM



TRIPURA

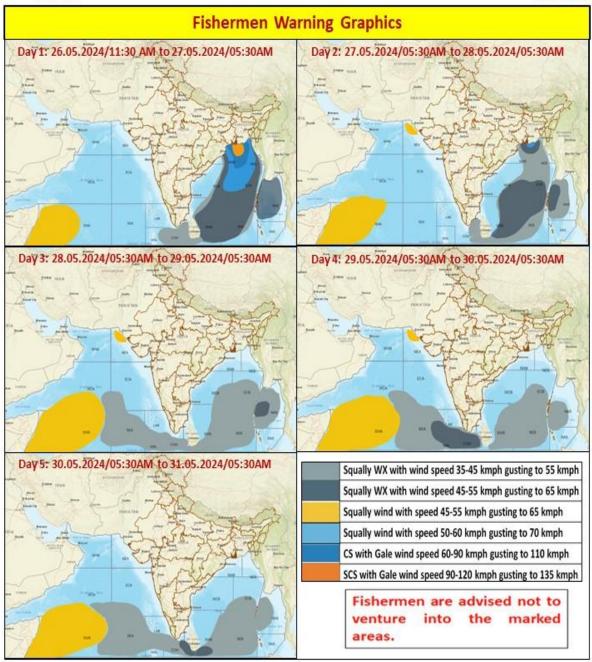


MEGHALAYA







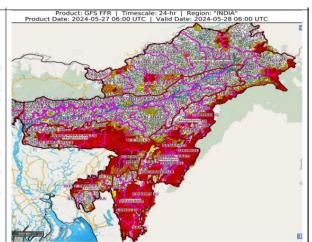


Flash Flood Guidance for Northeastern States

24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 28-05-2024 :

Moderate flash flood risk likely over few watersheds & neighbourhoods of Arunachal Pradesh, Assam & Meghalaya and NMMT Met Sub-divisions during next 24 hours.

Surface runoff/ Inundation may occur on low lying areas due to persistent rainfall under the influence of impending Cyclonic Storm "Remal" in next 24 hours.



Flash Flood Threat	Flash Flood Risk		
High Threat (Take Action)	High Risk (Take Action)		
Moderate threat (Be Prepared)	Moderate Risk (Be Prepared)		
Low Threat (Be Updated)	Low Risk (Be Updated)		