

India Meteorological Department (Ministry of Earth Sciences)

NATIONAL BULLETIN NO.21 (BOB/01/2024)

TIME OF ISSUE: 0830 HOURS IST DATED: 27.05.2024 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: Severe Cyclonic Storm "Remal" (pronounced as "Re-Mal") weakened into a Cyclonic Storm over Coastal Bangladesh and adjoining Coastal West Bengal

The Severe Cyclonic Storm "Remal" (pronounced as "Re-Mal") over Coastal Bangladesh and adjoining Coastal West Bengal moved nearly northwards, with a speed of 15 kmph during past 06 hours, weakened into a Cyclonic Storm and lay centered at 0530 hrs IST of today, the 27th May, 2024 over the same region, near latitude 22.5°N and longitude 89.3°E about 150 km northeast of Sagar Islands (West Bengal), 110 km northwest of Khepupara (Bangladesh), 70 km northeast of Canning (West Bengal) and 30km west-southwest of Mongla (Bangladesh).

The system is initially likely to move north-northeastwards, subsequently northeastwards and gradually weaken further.

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
27.05.24/0530	22.5/89.3	80-90 gusting to 100	Cyclonic Storm
27.05.24/1130	23.4/89.8	60-70 gusting to 80	Cyclonic Storm
27.05.24/1730	24.2/90.4	50-60 gusting to 70	Deep Depression
27.05.24/2330	25.0/91.1	40-50 gusting to 60	Depression
28.05.24/0530	25.7/91.9	35-45 gusting to 55	Depression
28.05.24/1730	26.3/92.8	20-30 gusting to 40	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 a few places is likely over coastal districts of West Bengal and eastern districts of Gangetic West Bengal adjacent to Bangladesh on 27th May. The peak rainfall activity is likely till noon of 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 isolated 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 on 27th & 28th May, Arunachal Pradesh on 28th May and Mizoram & Tripura on 27th May.

Wind Warning:

(a) Bay of Bengal

- ❖ Gale wind speed reaching 80-90 kmph gusting to 100 kmph is prevailing over North Bay of Bengal. It is likely to decrease becoming 60-70 kmph gusting to 80 kmph by noon of 27th May and squally wind speed reaching 45-55 kmph gusting to 65 kmph by evening of 27th May.
- ❖ Squally wind speed reaching 40-50 kmph gusting to 60 kmph will continue to prevail over adjoining central Bay of Bengal till noon of 27th May.
- (b) Along & off Bangladesh and West Bengal coasts
- ❖ Gale wind speed reaching 80-90 kmph gusting to 100 kmph will continue to prevail along & off Bangladesh and adjoining West Bengal coasts during next 3 hours. It is likely to decrease becoming 60-70 kmph gusting to 80 kmph by noon, squally wind 50-60 kmph gusting to 70 kmph by evening of 27th May and decrease gradually thereafter.
- Gale wind speed reaching 60-70 kmph gusting to 80 kmph will continue to prevail over Howrah, Hoogly & Kolkata, over East Medinipur during next 6 hours and decrease gradually thereafter.

(c) Along & off North Odisha coasts

Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail during next 6 hours and decrease gradually thereafter.

(d) Northeastern States

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

Sea condition warning:

(a) North Bay of Bengal

High Sea condition is likely over North Bay of Bengal till noon and gradually improve becoming very rough to rough by evening of 27th May and gradually improve thereafter.

(b) Along & off Bangladesh and West Bengal coasts

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

(c) Along &off North Odisha coast

Rough sea condition is likely along & off North Odisha coast during next 6 hours and improve thereafter.

(d) Central Bay of Bengal

Rough sea condition is likely to prevail over central Bay of Bengal during next 6 hours and improve thereafter.

Damage Expected over South & North 24 Parganas, Howrah, Hoogly, Kolkata & adjoining East Medinipur 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 South & North 24 Parganas, Howrah, Hoogly, Kolkata & adjoining East Medinipur 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 move to 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):

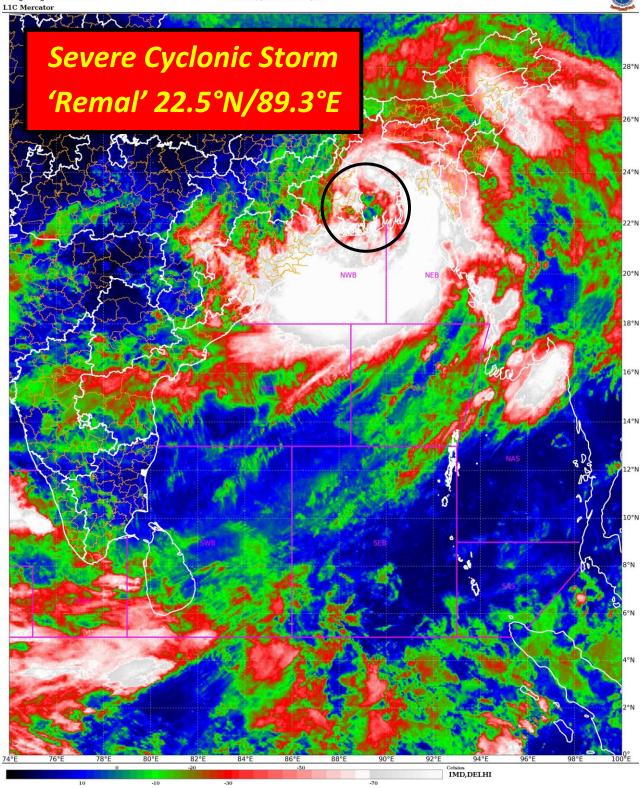
Fishermen are advised not to venture into North Bay of Bengal along and off West Bengal and Bangladesh coasts on 27th May.

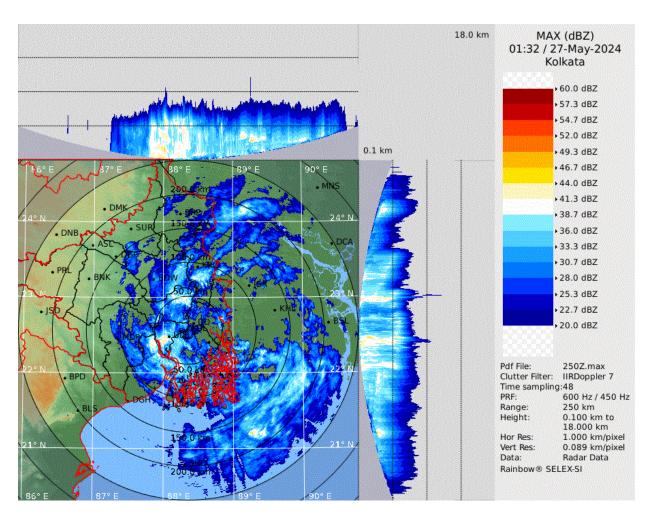
The system is under continuous surveillance and the next message will be issued at 1130 hours IST of today, the 27th May, 2024.

(Dr. Shashi Kant)

Scientist D, Cyclone Warning Division, New Delhi

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

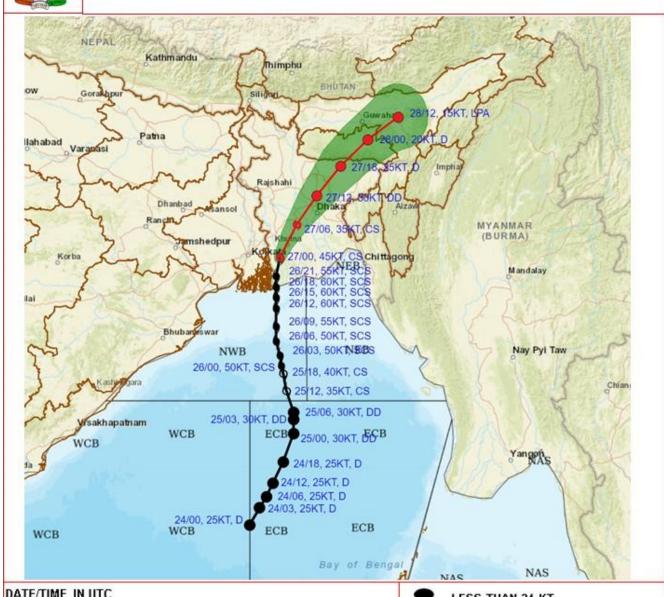




Kolkata Radar Image 0702 hrs IST of today, the 27th May



FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY IN ASSOCIATION WITH CYCLONIC STORM 'REMAL' OVER COASTAL BANGLADESH AND ADJOINING COASTAL WEST BENGAL BASED ON 0000 UTC (0530 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

34.47 KT

≥ 48 KT

OBSERVED TRACK

FORECAST TRACK

CONE OF UNCERTAINTY

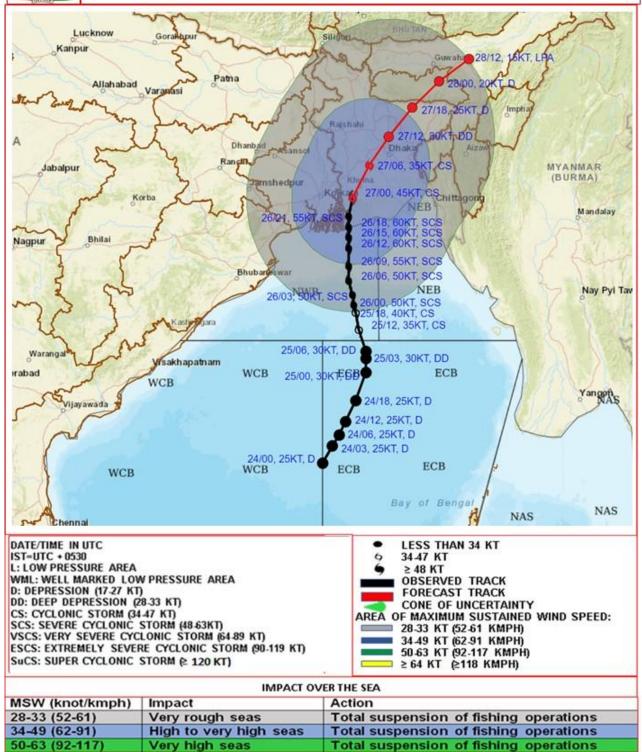
Forecast	DISTANCE (KM) AND DIRECTION FROM STATIONS				
Date and Time (UTC)	Canning	Khepupara	Sagar Island	Mongla	
27.05.24/0000	70, NE	110, NW	150, NE	30, WSW	
27.05.24/0600	165, NE	160, NNW	250, NE	94, NNE	



≥ 64 (≥118)

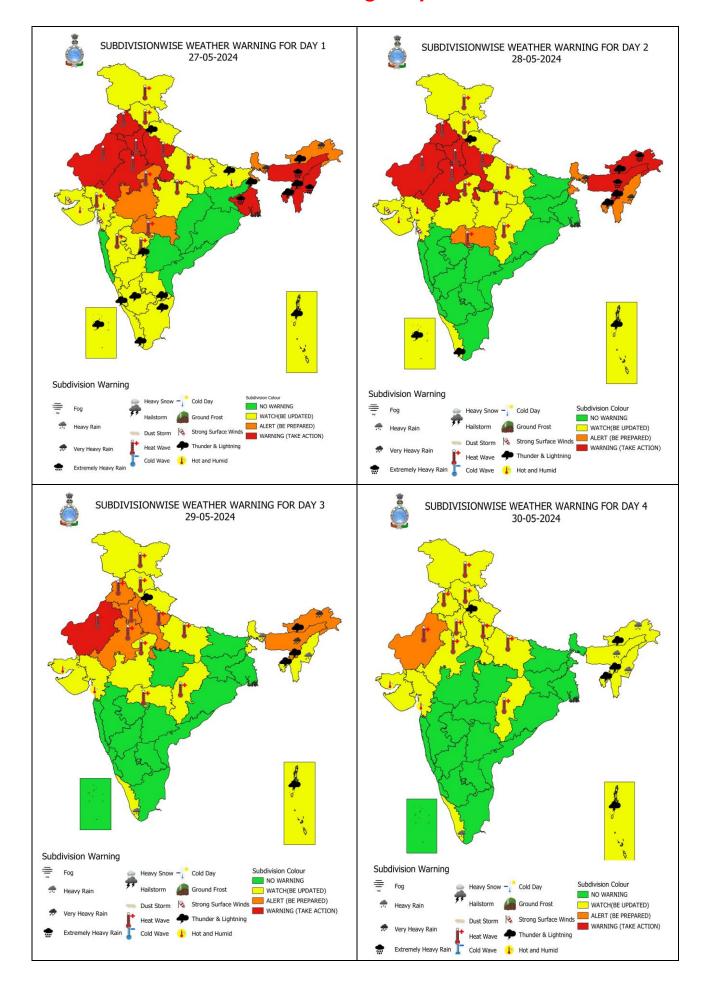
Phenomenal

FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION IN ASSOCIATION WITH CYCLONIC STORM 'REMAL' OVER COASTAL BANGLADESH AND ADJOINING COASTAL WEST BENGAL BASED ON 0000 UTC (0530 IST) OF 27TH MAY 2024.

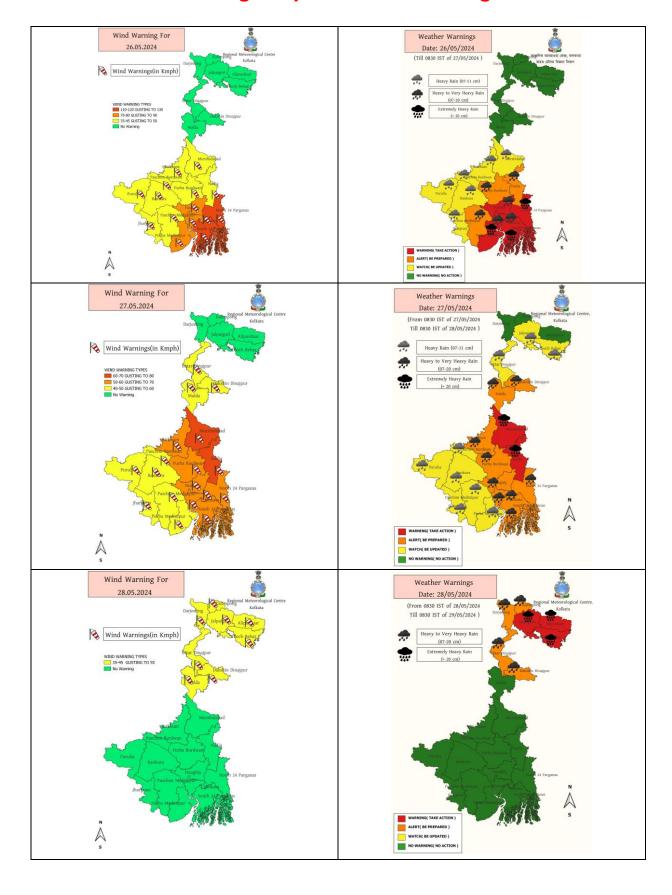


Total suspension of fishing operations

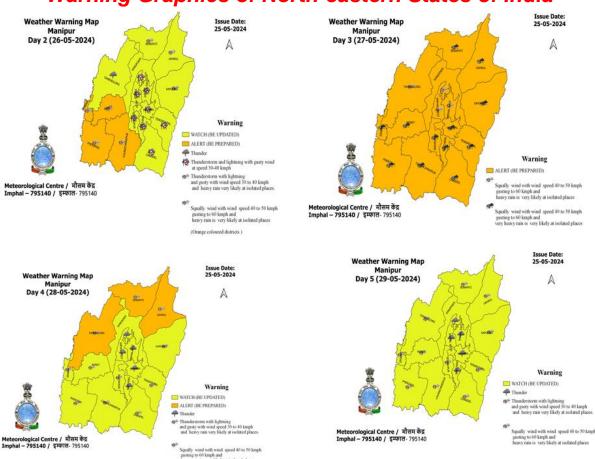
All India Warning Graphics

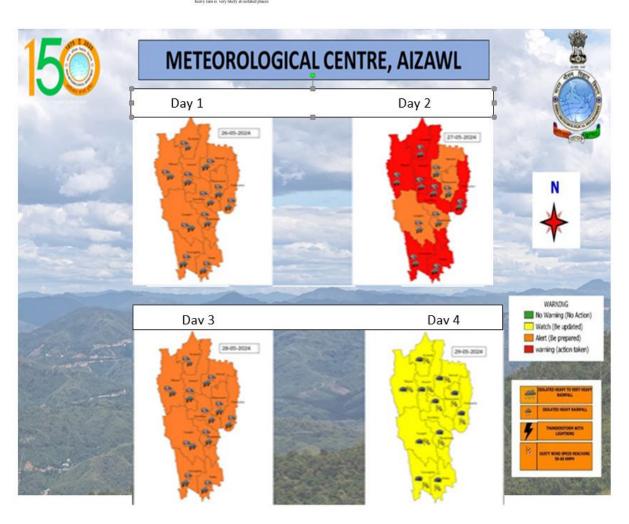


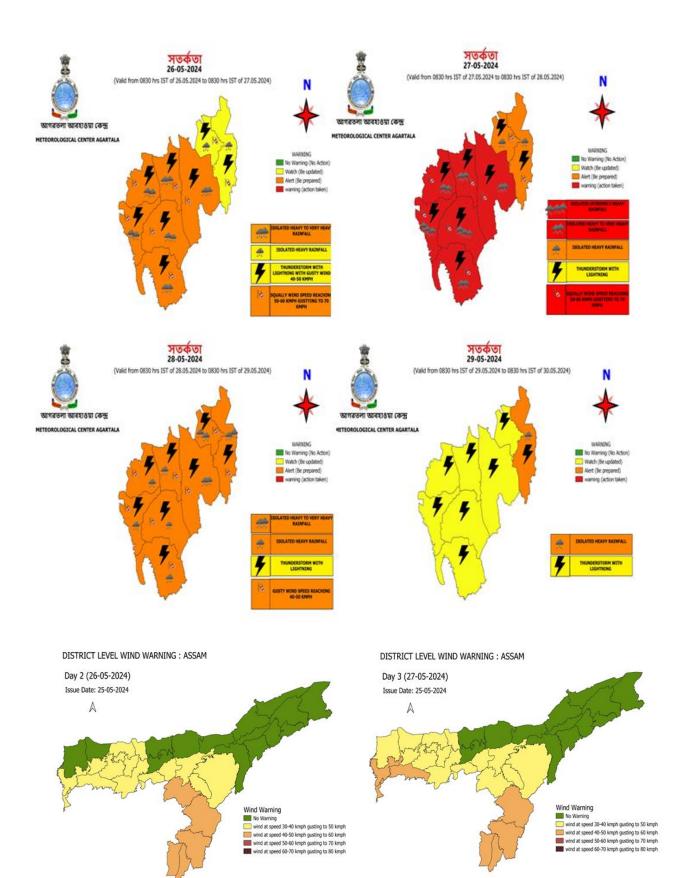
Warning Graphics of West Bengal



Warning Graphics of North-eastern States of India









भारत सरकार/ Government of India पृथ्वी विज्ञान मंत्रालय/ Ministry of Earth Sciences भारत मौसम विज्ञान विभाग/ India Meteorological Department मौसम विज्ञान केन्द्र/ Meteorological Centre शिलांग,मेघालय – ७९३००५/ Shillong, Meghalaya-793005



DISTRICT LEVEL WEATHER WARNING MAP FOR MEGHALAYA





Meghalaya
Day-3 (28-05-2024)

WEST GARO
HILLS
WEST RHASI
HILLS
HI

Weather Warning Map

Weather Warning Map

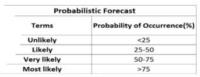


Meghalaya
Day-5 (30-05-2024)

WEST DASS
HILLS

WARNING WARNING (TAKE ACTION) ALERT (BE PREPARED) WATCH (BE UPDATED) NO WARNING (NO ACTION)

INTENSITY	RAINFALL (mm
Heavy Rain	64.5 to 115.5
Very Heavy Rain	115.6 to 204.4
Very Heavy Rain Extremely Heavy rain	115.6 to 204 >204.4





Heavy Rainfall



Cyclone

Issue Date: 26-05-2024

Issue Date: 26-05-2024



Thunderstorm with Lightning



Squall/Hail



Strong Winds



Visibility



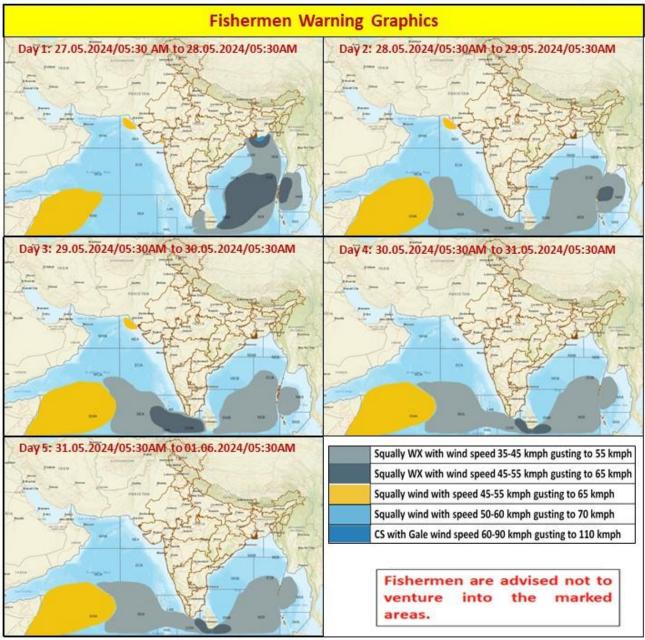
Lightning



Dense Fog







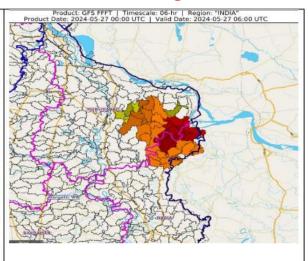
Flash Flood Guidance for West Bengal

Persistent Flash Flood Threat (PFFT) till 1130 IST of 27-05-2024 :

Low flash flood threat likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 6 hours.

Gangetic West Bengal - Mursidabad and Nadia districts.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected rainfall occurrence in next 6 hours.

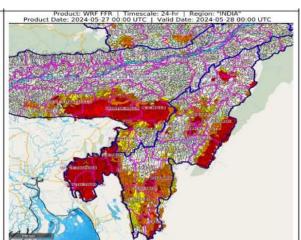


Flash Flood Guidance for Northeastern States

24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 28-05-2024 :

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of 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)	