

#### India Meteorological Department (Ministry of Earth Sciences)

#### BULLETIN NO. 16 (BoB/02/2023)

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# Sub: Severe Cyclonic storm "Mocha" (pronounced as "Mokha") over Southeast adjoining Central Bay of Bengal intensified into a Very Severe Cyclonic Storm over Central adjoining Southeast Bay of Bengal

The **Severe Cyclonic Storm** "Mocha" (pronounced as "Mokha") over Southeast adjoining Central Bay of Bengal moved northwards with a speed of 09 kmph during past 06 hours, *intensified into a Very Severe Cyclonic Storm* and lay centered at 0530 hours IST of today, the 12th May 2023 over Central adjoining Southeast Bay of Bengal near latitude 13.2°N and longitude 88.1°E, about 520 km west-northwest of Port Blair, 1010 km south-southwest of Cox's Bazar (Bangladesh) and 930 km south-southwest of Sittwe (Myanmar).

It is very likely to move north-northeastwards and intensify further over Eastcentral Bay of Bengal. It is likely to cross southeast Bangladesh and north Myanmar coasts between Cox's Bazar (Bangladesh) and Kyaukpyu (Myanmar), close to Sittwe (Myanmar) around noon of 14th May, 2023 as a *Very Severe Cyclonic Storm with maximum sustained wind speed of 150-160 kmph gusting to 175 kmph.*  Forecast track and intensity are given below:

Date/Time (IST)	Position (Lat. <sup>0</sup> N/ long. <sup>0</sup> E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
12.05.23/0530	13.2/88.1	115-125 gusting to 135	Very Severe Cyclonic Storm
12.05.23/1130	13.8/88.3	125-135 gusting to 150	Very Severe Cyclonic Storm
12.05.23/1730	14.5/88.6	135-145 gusting to 160	Very Severe Cyclonic Storm
12.05.23/2330	15.2/89.0	140-150 gusting to 165	Very Severe Cyclonic Storm
13.05.23/0530	15.9/89.4	145-155 gusting to 170	Very Severe Cyclonic Storm
13.05.23/1730	17.5/90.5	150-160 gusting to 175	Very Severe Cyclonic Storm
14.05.23/0530	19.1/91.9	150-160 gusting to 175	Very Severe Cyclonic Storm
14.05.23/1730	21.3/93.7	100-110 gusting to 120	Severe Cyclonic Storm
15.05.23/0530	23.5/95.5	40-50 gusting to 60	Depression

# Warnings:

# (i) Rainfall (warning graphics enclosed)

- Andaman & Nicobar Islands: Rainfall at most places with Heavy to very heavy rainfall at isolated places is likely on 12<sup>th</sup> May and heavy rainfall at isolated places during 13<sup>th</sup>-14<sup>th</sup> May.
- Tripura & Mizoram: Rainfall at most places with Heavy rainfall at isolated places is likely on 13<sup>th</sup> May and heavy to very heavy rainfall at isolated places on 14<sup>th</sup> May.
- Nagaland, Manipur & south Assam: Rainfall at many places with Heavy rainfall at isolated places is on 14<sup>th</sup> May.

# (ii) Wind warning:

# Andaman Islands:

Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail on 12<sup>th</sup> May.

# Tripura, Mizoram & south Manipur:

Squally wind speed reaching 50-60 kmph gusting to 70 kmph is very likely to prevail on 14<sup>th</sup> May.

# North Andaman Sea:

Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail over North Andaman Sea on 12<sup>th</sup> May.

# Southeast Bay of Bengal:

Gale wind speed reaching 115-125 kmph gusting to 135 kmph is prevailing and likely to continue till evening and decrease thereafter becoming squally wind speed reaching 55-65 kmph gusting to 75 kmph on 13<sup>th</sup> May.

# Adjoining areas of southwest Bay of Bengal:

Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail during next 24 hours and decrease thereafter.

# **Solution** Eastcentral Bay of Bengal:

Gale wind speed reaching 115-125 kmph gusting to 135 kmph is prevailing over the region. It is likely to increase becoming Gale wind speed reaching 140-150 kmph gusting to 165 kmph from 12<sup>th</sup> May evening and increase further becoming 150-160 kmph gusting to 175 kmph till 14<sup>th</sup> May morning and gradually decrease thereafter.

# Westcentral Bay of Bengal:

Gale wind speed reaching 115-125 kmph gusting to 135 kmph is likely to prevail over southeastern sector of the region during next 24 hours. It will decrease gradually becoming 90-100 kmph gusting to 110 kmph by 13<sup>th</sup> May evening and significantly decrease thereafter.

# Northeast Bay of Bengal:

Squally wind speed reaching 55-65 kmph gusting to 75 kmph is likely from forenoon of 12<sup>th</sup> May becoming 70-80 gusting to 90 kmph from 12<sup>th</sup> May evening.

Gale wind speed reaching 90-100 kmph gusting to 110 kmph is likely to commence from 13<sup>th</sup> May morning and gradually increase and becoming 150-160 kmph gusting 175 kmph from 13<sup>th</sup> evening till 14<sup>th</sup> May noon. It is likely to decrease rapidly after the land fall.

# Adjoining areas of Northwest Bay of Bengal:

Gale wind speed reaching 60-70 kmph gusting to 80 kmph is likely to prevail from 13<sup>th</sup> May to 14th May forenoon and decrease gradually thereafter.

# (iii) Sea condition

Andaman Sea:

Very rough to rough over north Andaman Sea during 12<sup>th-</sup>13<sup>th</sup> May.

Southeast Bay of Bengal:

High to very high sea condition is likely to prevail during next 24 hours. Very rough to rough on 13<sup>th</sup> May.

- Eastcentral Bay of Bengal: Very High sea condition is prevailing and is likely to become phenomenal from the morning hours of today, the 12<sup>th</sup> May till 14<sup>th</sup> May forenoon. It will improve thereafter.
- Adjoining areas of Westcentral Bay of Bengal: Very high sea condition is prevailing and likely to become phenomenal from 12<sup>th</sup> May morning to 13<sup>th</sup> May morning. It will gradually improve thereafter.

# Northeast Bay of Bengal:

Rough to very rough from 12<sup>th</sup> May morning and likely to become very rough to high from 12<sup>th</sup> May evening and high to very high from early morning hours of 13<sup>th</sup> May. It will be Phenomenal during 13<sup>th</sup> evening to 14<sup>th</sup> May.

 Adjoining areas of Northwest Bay of Bengal: Rough to very rough during 13<sup>th</sup>-14<sup>th</sup> May.

# (iv) Fishermen Warning (warning graphics enclosed)

- Fishermen, ships, boats and trawlers are advised not to venture into southeast Bay of Bengal till 12<sup>th</sup> May, central Bay of Bengal and north Andaman Sea till 14<sup>th</sup> May and into northeast Bay of Bengal during 12<sup>th</sup>-14<sup>th</sup> May.
- Those over central Bay of Bengal and north Andaman Sea are advised to return to coast.

# (v) Damage expected & Action suggested: Mizoram, Tripura, and South Manipur

- Minor Damage to loose/unsecured structures
- Some breaches in kutcha road due to heavy rain with the possibility of landslide, in vulnerable areas
- Uprooting of small trees and breaking of tree branches.
- Damage to small trees like Banana, Drum stick and Papaya etc.
- Damage to standing crops

#### Action Suggested

- Immediately harvest mature fruits and crops.
- Provide staking and cover to vegetables nurseries, fruit orchards.
- Avoid application of fertilizers and pesticides.
- Keep livestock inside sheds

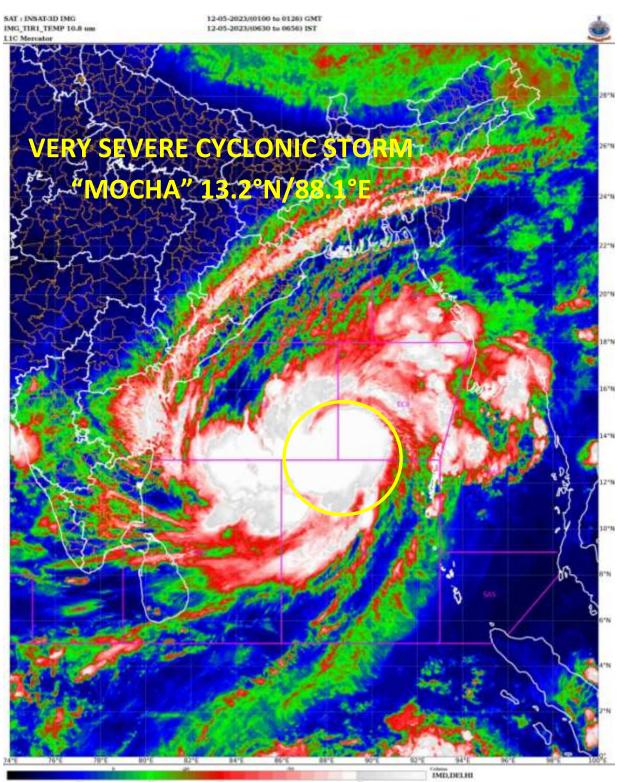
(vi) Damage expected & Action suggested: Marine community (shipping, offshore industries, Tourism etc. over Bay of Bengal, Andaman Sea & Andaman & Nicobar Islands)

- Very rough to phenomenal sea could effect marine operation and offshore activities.
- Regulation of tourism and offshore activities and shipping near Andaman & Nicobar Islands till 13<sup>th</sup> May.
- Regulation of shipping activity over the sea areas of southeast Bay of Bengal and Andaman Sea till 12<sup>th</sup> May, eastcentral Bay of Bengal till 14<sup>th</sup> May, and westcentral Bay of Bengal till 13<sup>th</sup> May.
- Regulation of shipping activity over the sea areas of northeast Bay of Bengal during 12<sup>th</sup>-14<sup>th</sup> May.

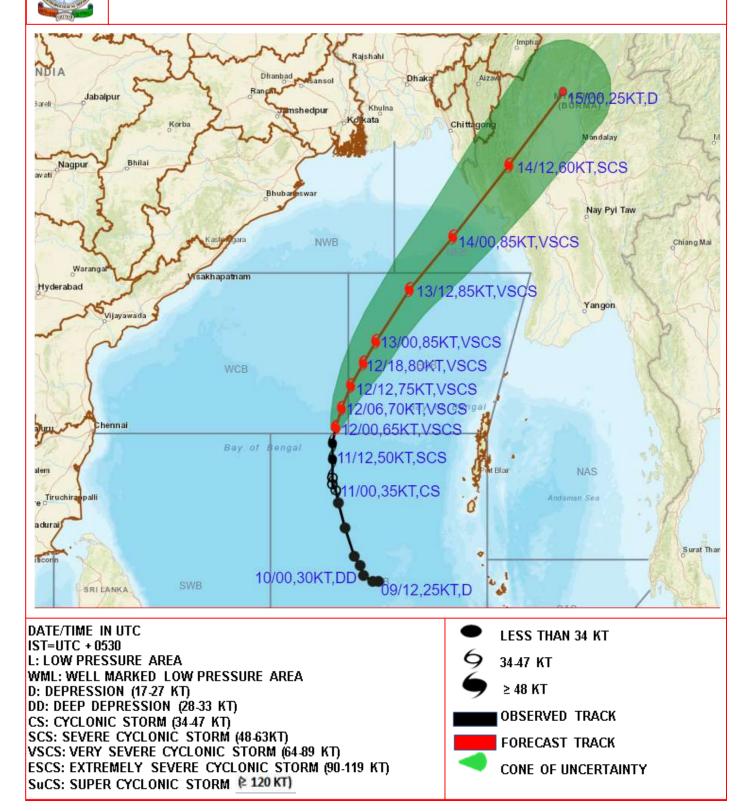
The system is under continuous surveillance and the next message will be issued at 1130 hours IST of today, the 12<sup>th</sup> May 2023.

(Dr. Ananda Kumar Das) Scientist F, Cyclone Warning Division, New Delhi

Copy to: ACWC Kolkata/ ACWC Chennai/ CWC Bhubaneswar/CWCVisakhapatnam/MO Port Blair

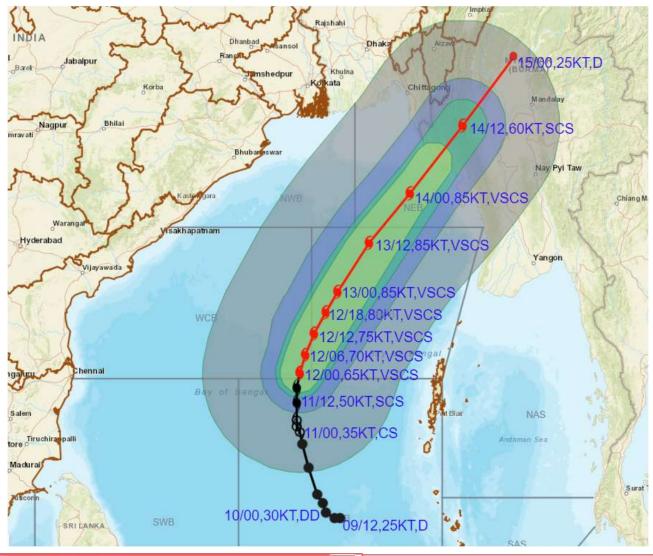


OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF VERY SEVERE CYCLONIC STORM MOCHA OVER CENTRAL AND ADJOINING SOUTHEAST BAY OF BENGAL BASED ON 0000 UTC (0530 IST) OF 12<sup>TH</sup> MAY 2023.





OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF VERY SEVERE CYCLONIC STORM MOCHA OVER CENTRAL AND ADJOINING SOUTHEAST BAY OF BENGAL BASED ON 0000 UTC (0530 IST) OF 12<sup>TH</sup> MAY 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 (≥ 120 KT)

	<ul> <li>LESS THAN 34 KT</li> </ul>
	6 34-47 KT
	OBSERVED TRACK
	FORECAST TRACK
	CONE OF UNCERTAINTY
AR	EA 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		

