

## India Meteorological Department (Ministry of Earth Sciences)

#### BULLETIN NO. 29 (BoB/02/2023)

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# Sub: Extremely Severe Cyclonic Storm "Mocha" (pronounced as "Mokha") over Eastcentral Bay of Bengal

The Extremely Severe Cyclonic Storm "Mocha" (pronounced as "Mokha") over Eastcentral Bay of Bengal moved nearly north-northeastwards with a speed of 22 kmph during past 06 hours and lay centered at 2030 hours IST of today, the 13th May 2023 over the same region near latitude 17.4°N and longitude 91.0°E, about 660 km north-northwest of Port Blair, 450 km south-southwest of Cox's Bazar (Bangladesh) and 460 km south-southwest of Sittwe (Myanmar).

It is very likely to move north-northeastwards and 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 an Extremely Severe Cyclonic Storm with maximum sustained wind speed of 180-190 kmph gusting to 210 kmph.

#### Forecast track and intensity are given below:

Date/Time (IST)	Position (Lat. ⁰N/ long. ⁰E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
13.05.23/2030	17.4/91.0	205-215 gusting to 235	Extremely Severe Cyclonic Storm
13.05.23/2330	17.9/91.2	210-220 gusting to 240	Extremely Severe Cyclonic Storm
14.05.23/0530	19.1/91.8	200-210 gusting to 230	Extremely Severe Cyclonic Storm
14.05.23/1130	20.2/92.6	180-190 gusting to 210	Extremely Severe Cyclonic Storm
14.05.23/1730	21.4/93.5	120-130 gusting to 145	Very Severe Cyclonic Storm
15.05.23/0530	23.7/95.6	50-60 gusting to 70	Deep Depression

#### Warnings:

#### (i) Rainfall (warning graphics enclosed)

- Andaman & Nicobar Islands: Light to moderate Rainfall at most places are likely on 13<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:

#### 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 45-55 kmph gusting to 65 kmph is likely to prevail till 14th May forenoon.

## Southeast Bay of Bengal:

Squally wind speed reaching 55-65 kmph gusting to 75 kmph would prevail till 14<sup>th</sup> morning.

#### Eastcentral Bay of Bengal:

Gale wind speed reaching 205-215 kmph gusting to 2305 kmph is prevailing over the region. It is very likely to increase becoming 210-220 kmph gusting to 240 kmph from 13<sup>th</sup> May midnight. It would decrease gradually from 14<sup>th</sup> morning to become 150-160 kmph gusting to 175 kmph till noon. It would decrease rapidly thereafter.

## **❖** Adjoining areas of Westcentral Bay of Bengal:

Gale wind speed reaching 100-110 kmph gusting to 120 kmph is likely to prevail over the region till 13<sup>th</sup> May midnight. It will decrease gradually thereafter becoming squally wind speed reaching 40-50 gusting to 60 kmph till 14<sup>th</sup> noon.

#### Northeast Bay of Bengal:

Gale wind speed reaching 100-110 kmph gusting to 120 kmph is prevailing and it would gradually increase becoming 210-220 kmph gusting to 240 kmph from 13<sup>th</sup> midnight till 14<sup>th</sup> May morning. It is likely to decrease thereafter to 180-190 kmph gusting to 210 kmph at the time of landfall. It is likely to decrease rapidly after the landfall.

## Adjoining areas of Northwest Bay of Bengal:

Gale wind speed reaching 60-70 kmph gusting to 80 kmph is likely to prevail over southeast sector of the region and 45-55 kmph gusting to 65 kmph over the remaining areas of northwest Bay of Bengal till 14th May morning and decrease gradually thereafter.

## (iii) Sea condition

#### ❖ Andaman Sea:

Very rough to rough over north Andaman Sea is likely is likely to prevail till 14<sup>th</sup> May morning.

#### Southeast Bay of Bengal:

Very rough to rough is likely to prevail till 14<sup>th</sup> May morning.

#### Eastcentral Bay of Bengal:

Phenomenal sea condition is prevailing and would continue till 14<sup>th</sup> May morning. It will improve gradually thereafter.

## ❖ Adjoining areas of Westcentral Bay of Bengal:

Very rough to high sea condition is prevailing and would continue till 14<sup>th</sup> May morning. It will gradually improve thereafter.

#### Northeast Bay of Bengal:

High to very high sea condition is prevailing and would become phenomenal from 13<sup>th</sup> May midnight till 14<sup>th</sup> May afternoon.

## **❖** Adjoining areas of Northwest Bay of Bengal:

Rough to very rough sea condition is likely till 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 13<sup>th</sup> May midnight, eastcentral and adjoining westcentral Bay of Bengal and north Andaman Sea till 14<sup>th</sup> May and into northeast Bay of Bengal till 14<sup>th</sup> May.
- ❖ Those over central & northeast 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)

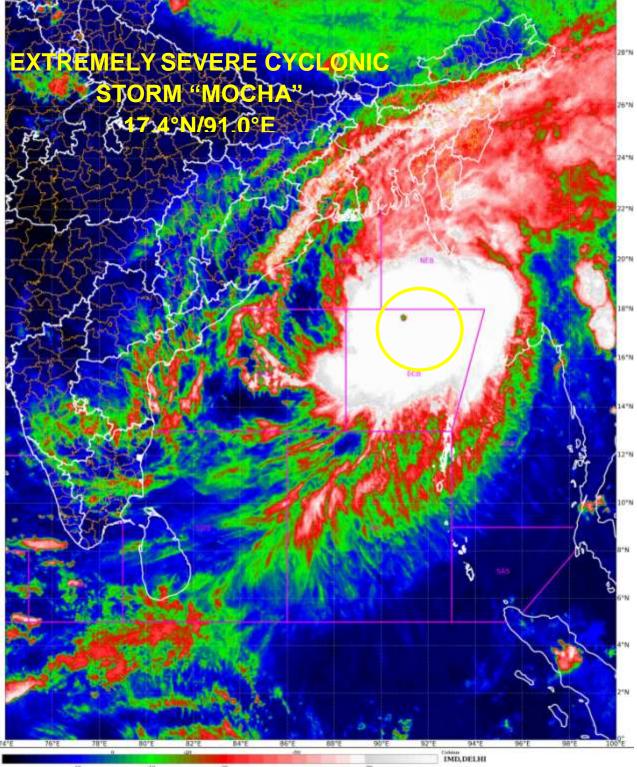
- Very rough to phenomenal sea could affect marine operation and offshore activities.
- ❖ Regulation of tourism and offshore activities and shipping near Andaman & Nicobar Islands till 13<sup>th</sup> May.
- Regulation of shipping activity over the sea areas of southeast Bay of Bengal and Andaman Sea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

The system is under continuous surveillance and the next message will be issued at 0230 hours IST of tomorrow, the 14<sup>th</sup> May 2023.

Arulalan.T Scientist C, Cyclone Warning Division, New Delhi

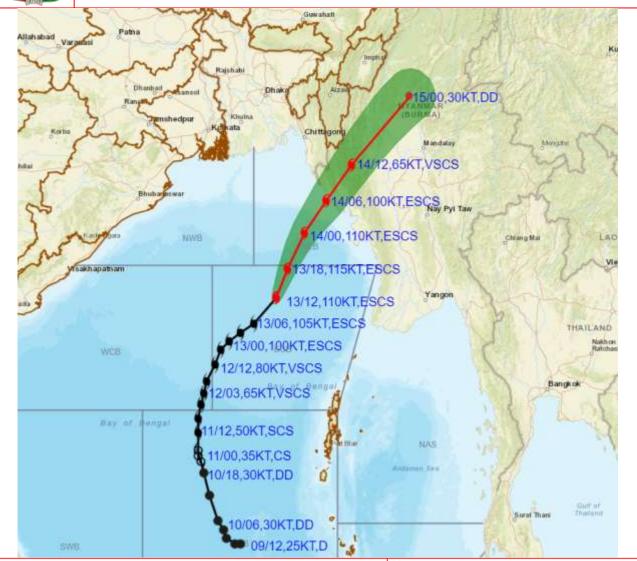
Copy to: ACWC Kolkata/ ACWC Chennai/ CWC Bhubaneswar/CWCVisakhapatnam/MO Port Blair







OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF EXTREMELY SEVERE CYCLONIC STORM MOCHA OVER EASTCENTRAL BAY OF BENGAL BASED ON 1200 UTC (1730 IST) OF 13<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)

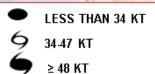
DD: DEEP DEPRESSION (28-33 KT) CS: CYCLONIC STORM (34-47 KT)

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)



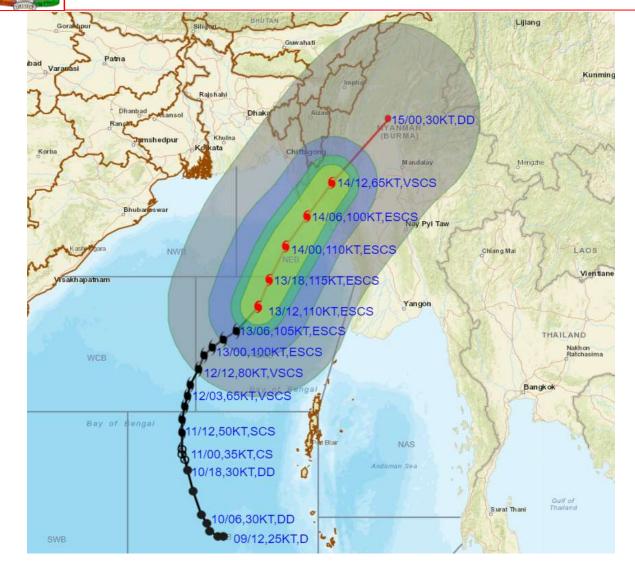


CONE OF UNCERTAINTY

F	orecast	dista	nce (kr	n) and direct	ion of the centr	e from nearest 5 o	oastal stations	
Forecast Date and Time	Lead Period	Lat	Lon	Station 1	Station 2	Station 3	Station 4	Station 5
13.05.23/1200	0	16.9	90.8	MANAUNG (379,SW)	KYAUKPYU (404,SW)	GWA (409,W)	COCO ISLAND (414,NW)	SANDOWAY (415,WSW)
14.05.23/1200	24	21.4	93.5	MINDAT (47,W)	GANGAW (108,SW)	KYAUKTAW (109,NE)	TEKNAF (138,ENE)	HAKHA (140,S)



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF EXTREMELY SEVERE CYCLONIC STORM MOCHA OVER EASTCENTRAL BAY OF BENGAL BASED ON 1200 UTC (1730 IST) OF 13<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)

•	LESS THAN 34 KT
6	34-47 KT
6	≥ 48 KT
	OBSERVED TRACK
	FORECAST TRACK
	CONE OF UNCERTAINTY
AREA	OF MAXIMUM SUSTAINED WIND SPEED:
	28-33 KT (52-61 KMPH)
1	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		

