

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

#### BULLETIN NO. 13 (BoB/02/2023)

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

The **Severe Cyclonic Storm** "Mocha" (pronounced as "Mokha") over southeast Bay of Bengal moved nearly northwards with a speed of 13 kmph during past 06 hours and lay centered at 2030 hours IST of today, the 11th May 2023 over Southeast adjoining Central Bay of Bengal near latitude 12.5°N and longitude 88.1°E, about 510 km west of Port Blair, 1070 km south-southwest of Cox's Bazar (Bangladesh) and 990 km south-southwest of Sittwe (Myanmar).

It is very likely to move north-northeastwards and intensify into a **Very Severe Cyclonic Storm** by 12th May morning over central Bay of Bengal. Thereafter, it is likely to continue to move north-northeastwards with further intensification. 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.** 

Date/Time	Position	Maximum sustained surface	Category of cyclonic
(IST)	(Lat. <sup>⁰</sup> N/ long. <sup>⁰</sup> E)	wind speed (Kmph)	disturbance
11.05.23/2030	12.5/88.1	90-100 gusting to 110	Severe Cyclonic Storm
11.05.23/2330	12.7/88.1	95-105 gusting to 115	Severe Cyclonic Storm
12.05.23/0530	13.1/88.2	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
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	105-115 gusting to 125	Severe Cyclonic Storm
15.05.23/0530	23.6/95.5	55-65 gusting to 75	Deep Depression
Warninga			

Forecast track and intensity are given below:

#### <u>Warnings:</u>

## (i) Rainfall (warning graphics enclosed)

- Andaman & Nicobar Islands: Rainfall at most places with Heavy rainfall at isolated places is likely on 11<sup>th</sup> May Heavy to very heavy at isolated places is likely on 12<sup>th</sup> May and heavy rainfall at isolated places during 13<sup>th</sup> and 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 & Nicobar Islands:

Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail on  $11^{\text{th}}$  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.

Andaman Sea:

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

## Southeast Bay of Bengal:

Gale wind speed reaching 90-100 kmph gusting to 110 kmph is prevailing and likely to become Gale wind speed reaching 115-125 kmph gusting to 135 kmph is likely by 12<sup>th</sup> May morning and 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 45-55 kmph gusting to 65 kmph is likely on 11<sup>th</sup> May.

## Eastcentral Bay of Bengal:

Gale wind speed reaching 80-90 kmph gusting to 100 kmph is prevailing and likely to become Gale wind speed reaching 115-125 kmph gusting to 135 kmph is likely on 12<sup>th</sup> May early morning, 140-150 kmph gusting to 165 kmph from 12<sup>th</sup> May evening and 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 80-90 kmph gusting to 100 kmph is prevailing and likely to become 115-125 kmph gusting to 135 kmph is likely on 12<sup>th</sup> May morning and 135-145 gusting to 160 kmph till 13<sup>th</sup> May morning. It will decrease gradually becoming 90-100 kmph gusting to 110 kmph by 13<sup>th</sup> May evening and significantly decreased thereafter.

## Northeast Bay of Bengal:

Squally wind speed reaching 55-65 kmph gusting to 75 kmph is likely on 12<sup>th</sup> May. 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 over Andaman Sea on 11<sup>th</sup> May. 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 till 12<sup>th</sup> May. 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 12<sup>th</sup> May to 14<sup>th</sup> May forenoon. It will improve thereafter.

 Adjoining areas of Westcentral Bay of Bengal: High to 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 on 12<sup>th</sup> May. Phenomenal during13<sup>th</sup> & 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

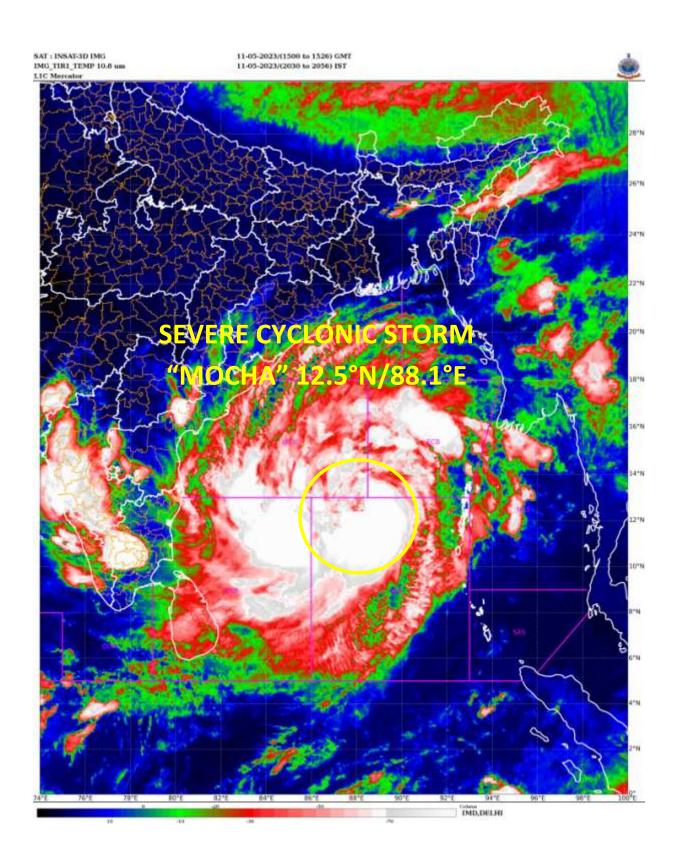
# (vi) Damage expected & Action suggested: Marine community (shipping, offshore industries, Tourism etc. over Bay of Bengal, Andaman Sea & Andaman & Nicobar Islands)

- 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 0230 hours IST of tomorrow, the 12<sup>th</sup> May 2023.

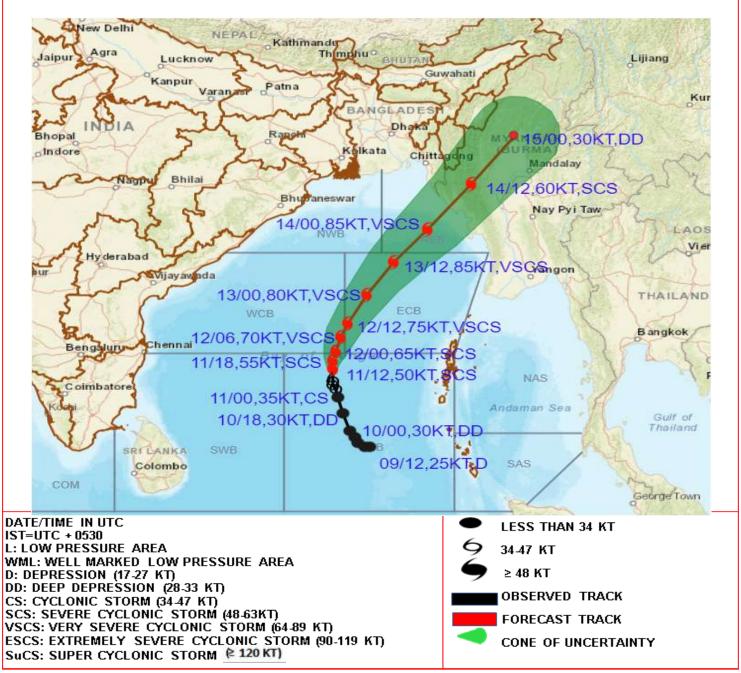
#### (Krishna Mishra) Scientist C, Cyclone Warning Division, New Delhi

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



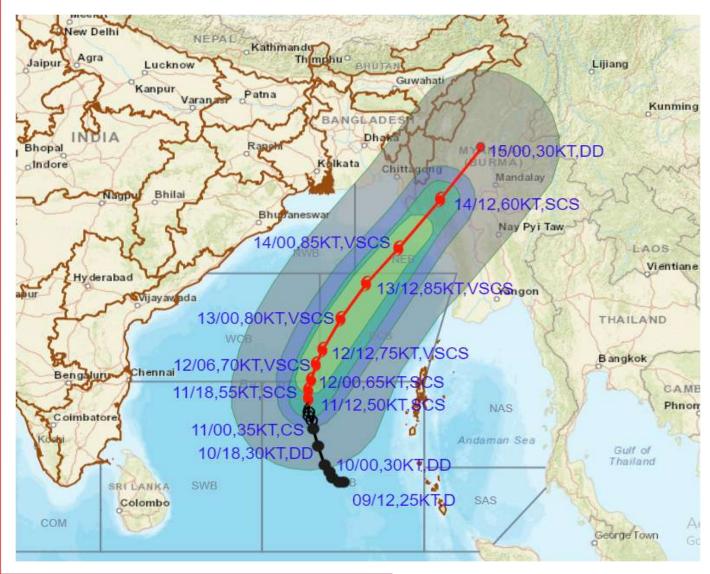


OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF SEVERE CYCLONE MOCHA OVER SOUTHEAST BAY OF BENGAL BASED ON 1200 UTC (1730 IST) OF  $11^{TH}$  MAY 2023.





OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF SEVERE CYCLONE MOCHA OVER SOUTHEAST BAY OF BENGAL BASED ON 1200 UTC (1730 IST) OF  $11^{TH}$  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 TH/</li> </ul>	AN 34 KT
6 34.47 KT	
OBSERVE	D TRACK
FORECAS	ST TRACK
CONE OF	UNCERTAINTY
AREA OF MAXIMU	IM SUSTAINED WIND SPEED:
28-33 KT	(52-61 KMPH)
	(62.91 KMPH)
50-63 KT	(92-117 KMPH)
≥ 64 KT	(≥118 KMPH)

	IMPACT O	VER 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

