

## India Meteorological Department (Ministry of Earth Sciences)

#### BULLETIN NO. 36 (BoB/02/2023)

TIME OF ISSUE: 2045 HOURS IST DATED: 14.05.2023 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 ASSAM (FAX NO. 0361-2260900)

CHIEF SECRETARY, GOVT. OF MANIPUR (FAX NO. 0385-2452629)

CHIEF SECRETARY, GOVT. OF NAGALAND (FAX NO. 0370-2270057)

# Sub: Extremely Severe Cyclonic Storm "Mocha" weakened into a very severe cyclonic storm over Myanmar

The **Extremely Severe Cyclonic Storm "Mocha"** (pronounced as "**Mokha"**) over coastal Myanmar moved north-northeastwards with a speed of 26 kmph during past 6 hours, weakened into a Very Severe Cyclonic Storm and lay centred at 1730 hours IST of today, the 14<sup>th</sup> May over Myanmar near latitude 21.1°N and longitude 93.3°E about 120 km north-northeast of Sittwe (Myanmar), 160 km of west of Nyaung-U (Myanmar), 360 km northwest of Nay Pyi Taw (Myanmar) and 140 km east-southeast of Cox's Bazar (Bangladesh).

The system is continuing the weakening trend and will become a cyclonic storm during next 6 hours.

### 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
14.05.23/1730	21.1/93.3	130-140 gusting to 155	Very Severe Cyclonic Storm
14.05.23/2330	22.4/94.3	70-80 gusting to 90	Cyclonic Storm
15.05.23/0530	23.6/95.5	40-50 gusting to 60	Depression

#### Warnings:

## (i) Rainfall (warning graphics enclosed)

- Mizoram: Rainfall at most places with 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 & Manipur:

Squally wind speed reaching 50-60 kmph gusting to 70 kmph over Mizoram and 40-50 kmph gusting 60 kmph over Tripura till 14<sup>th</sup> May midnight; 40-50 kmph gusting to 60 kmph over Mizoram thereafter 45-55 kmph gusting to 65 kmph till 15<sup>th</sup> morning.

Squally wind speed reaching 45-55 kmph gusting to 65 kmph over Manipur till 15<sup>th</sup> May morning.

### Eastcentral Bay of Bengal:

Squally wind speed reaching 45-55 kmph gusting to 65 kmph is likely to prevail till midnight of 14<sup>th</sup> May and decrease gradually thereafter.

### Northeast Bay of Bengal:

Gale wind speed reaching 60-80 kmph gusting to 90 kmph would continue to prevail till midnight of 14<sup>th</sup> May and 50-60 kmph gusting to 70 kmph till morning of 15 May. it is likely to decrease gradually thereafter.

#### (iii) Sea condition

#### Northeast Bay of Bengal:

High to very rough sea condition is likely to prevail till midnight of 14<sup>th</sup> May and improve to very rough to rough till morning of 15<sup>th</sup> may.

#### **❖** Eastcentral Bay of Bengal:

Very rough to rough sea condition is likely to prevail till 15<sup>th</sup> morning.

## (iv) Fishermen Warning (warning graphics enclosed)

❖ Fishermen, ships, boats and trawlers are advised not to venture into northeast and adjoining eastcentral Bay of Bengal till 15<sup>th</sup> May morning.

#### (v) Damage expected & Action suggested: Mizoram 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)

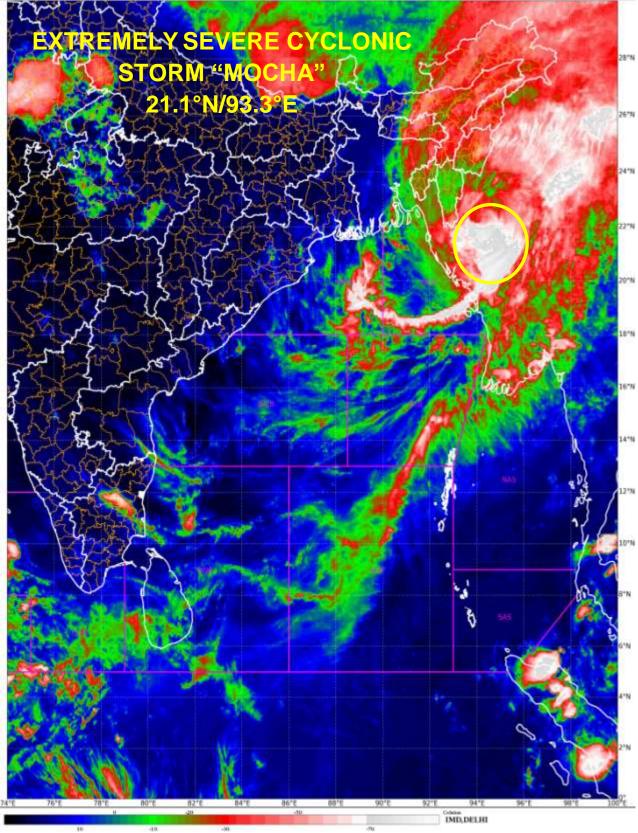
- Very rough to phenomenal sea could affect marine operation and offshore activities.
- Regulation of shipping activity sea areas of northeast and adjoining eastcentral Bay of Bengal till 14<sup>th</sup> May.

The system is under continuous surveillance and the next message will be issued at 2330 hours IST of today, the 14<sup>th</sup> May 2023.

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

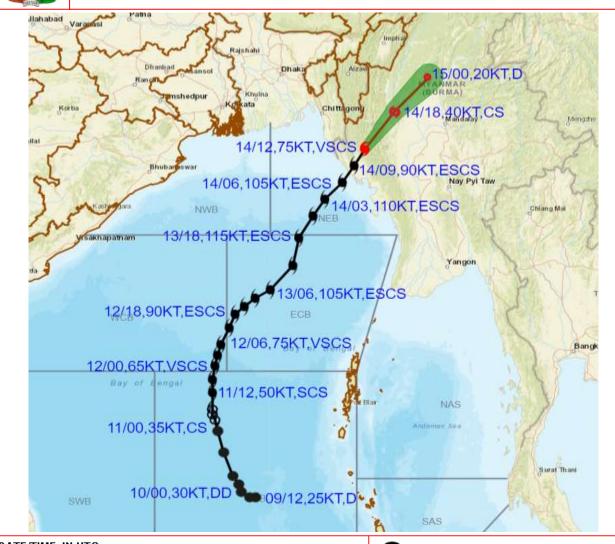
Copy to: ACWC Kolkata/ ACWC Chennai/ CWC Bhubaneswar/CWCVisakhapatnam/MO Port Blair







OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF VERY SEVERE CYCLONIC STORM MOCHA OVER MYANMAR BASED ON 1200 UTC (1730 IST) OF 14TH 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

34.47 KT

≥ 48 KT

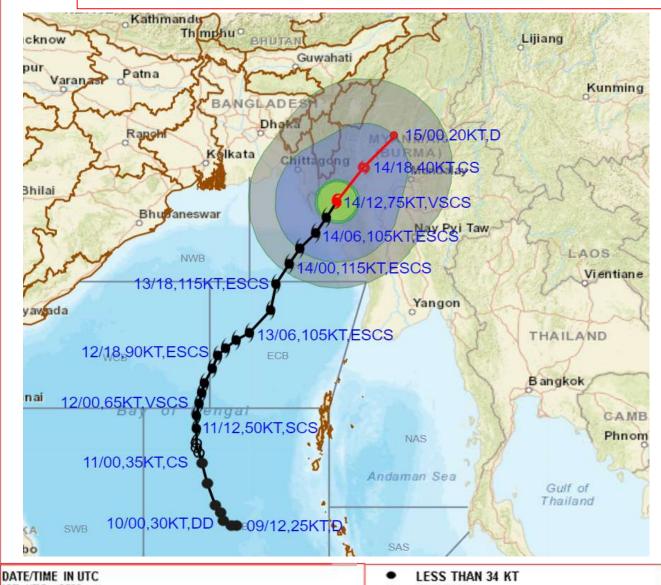
OBSERVED TRACK

FORECAST TRACK

CONE OF UNCERTAINTY

Forecast distance (km) and direction of the centre from nearest 5 coastal stations								
Forecast Date and Time	Lead Period	Lat	Lon	Station 1	Station 2	Station 3	Station 4	Station 5
14.05.23/1200	0	21.1	93.3	MINDAT (74,WSW)	KYAUKTAW (75,ENE)	TEKNAF (107,ENE)	SITTWE (116,NNE)	COX'S BAZAR (147,ESE)

OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF VERY SEVERE CYCLONIC STORM MOCHA OVER MYANMAR BASED ON 1200 UTC (1730 IST) OF 14TH MAY 2023.



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)

DESS THAN 34 KT

34.47 KT

≥ 48 KT

OBSERVED TRACK
FORECAST TRACK
CONE OF UNCERTAINTY

AREA 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			

