



India Meteorological Department
(Ministry of Earth Sciences)

BULLETIN NO. 39 (BoB/02/2023)

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Sub: Severe Cyclonic Storm "Mocha" weakened into cyclonic storm over Myanmar

The **Severe Cyclonic Storm "Mocha"** (pronounced as "**Mokha**") over Myanmar moved north-northeastwards with a speed of 43 kmph during past 6 hours, weakened into a Cyclonic Storm and lay centred at 0230 hours IST of 15th May over Myanmar near latitude 23.5°N and longitude 95.3°E about 450 km north-northeast of Sittwe (Myanmar), 260 km of north-northeast of Nyaung-U (Myanmar), 500 km north of Nay Pyi Taw (Myanmar) and 420 km east-northeast of Cox's Bazar (Bangladesh).

The system is continuing the weakening trend and will become a depression during next few hours.

Forecast track and intensity are given below:

Date/Time (IST)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
15.05.23/0230	23.5/95.3	60-70 gusting to 80	Cyclonic Storm
15.05.23/0830	24.7/96.7	50-60 gusting to 70	Deep Depression

Warnings:

(i) Wind warning:

❖ **Mizoram & Manipur:**

Squally wind speed reaching 40-50 kmph gusting to 60 kmph over Mizoram during next 6 hours.

Squally wind speed reaching 45-55 kmph gusting to 65 kmph over Manipur during next 6 hours.

❖ **Eastcentral Bay of Bengal:**

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

❖ **Northeast Bay of Bengal:**

Gale wind speed reaching 50-60 kmph gusting to 70 kmph during next 6 hours. It is likely to decrease gradually thereafter.

(ii) Sea condition

❖ **Northeast Bay of Bengal:**

Very rough to rough sea condition is likely to prevail during next 6 hours.

❖ **Eastcentral Bay of Bengal:**

Very rough to rough sea condition is likely to prevail during next 6 hours.

(iii) Fishermen Warning (warning graphics enclosed)

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

(iv) 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

(v) Damage expected & Action suggested: Marine community (shipping, offshore industries, Tourism etc. over Bay of Bengal)

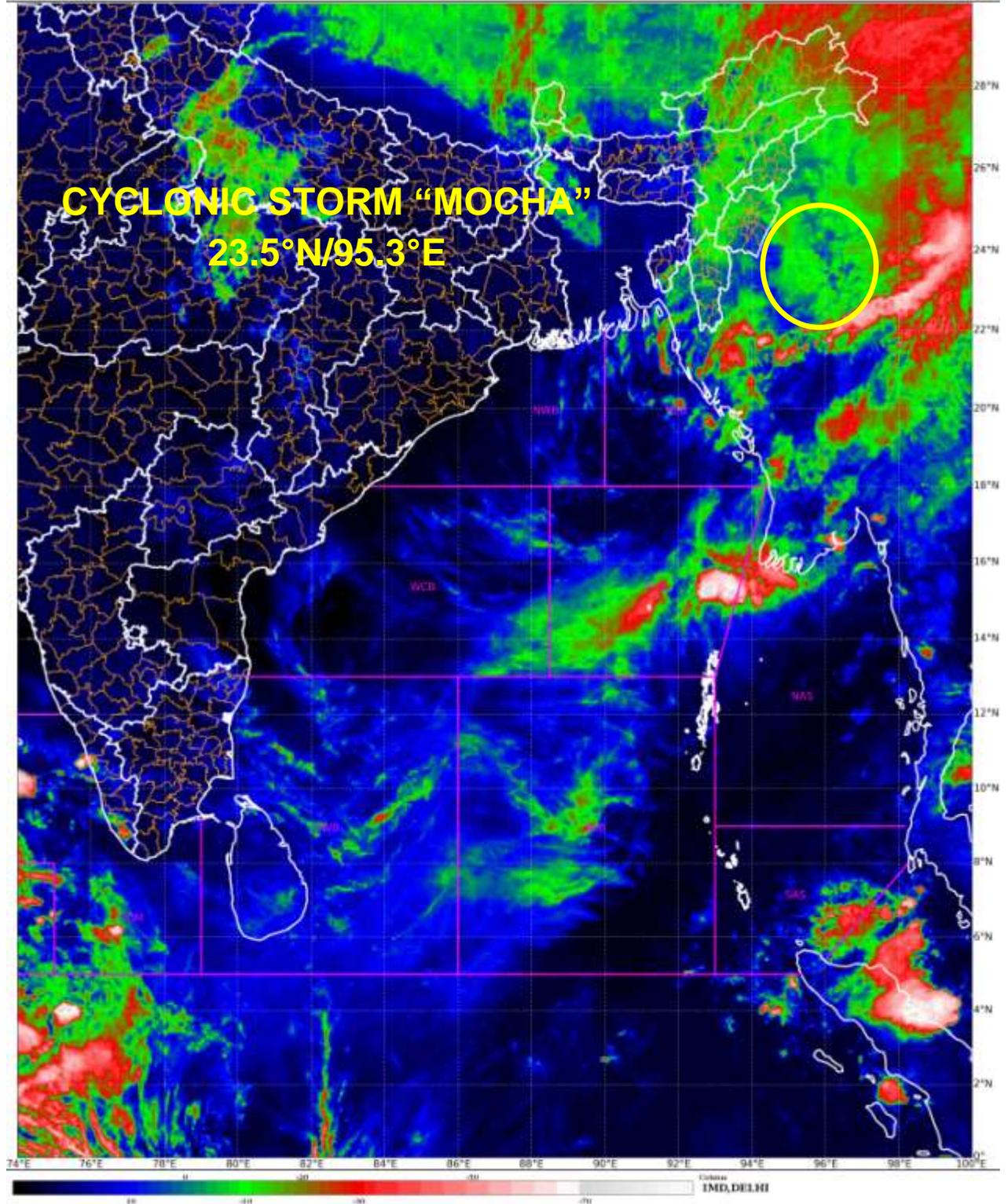
❖ Very rough to phenomenal sea could affect marine operation and offshore activities.

The system is under continuous surveillance and the next message will be issued at 0830 hours IST of today, the 15th May 2023.

(Dr. M. T. Bushair)

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 UNCERTAINTY OF CYCLONIC STORM MOCHA OVER MYANMAR BASED ON 2100 UTC 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

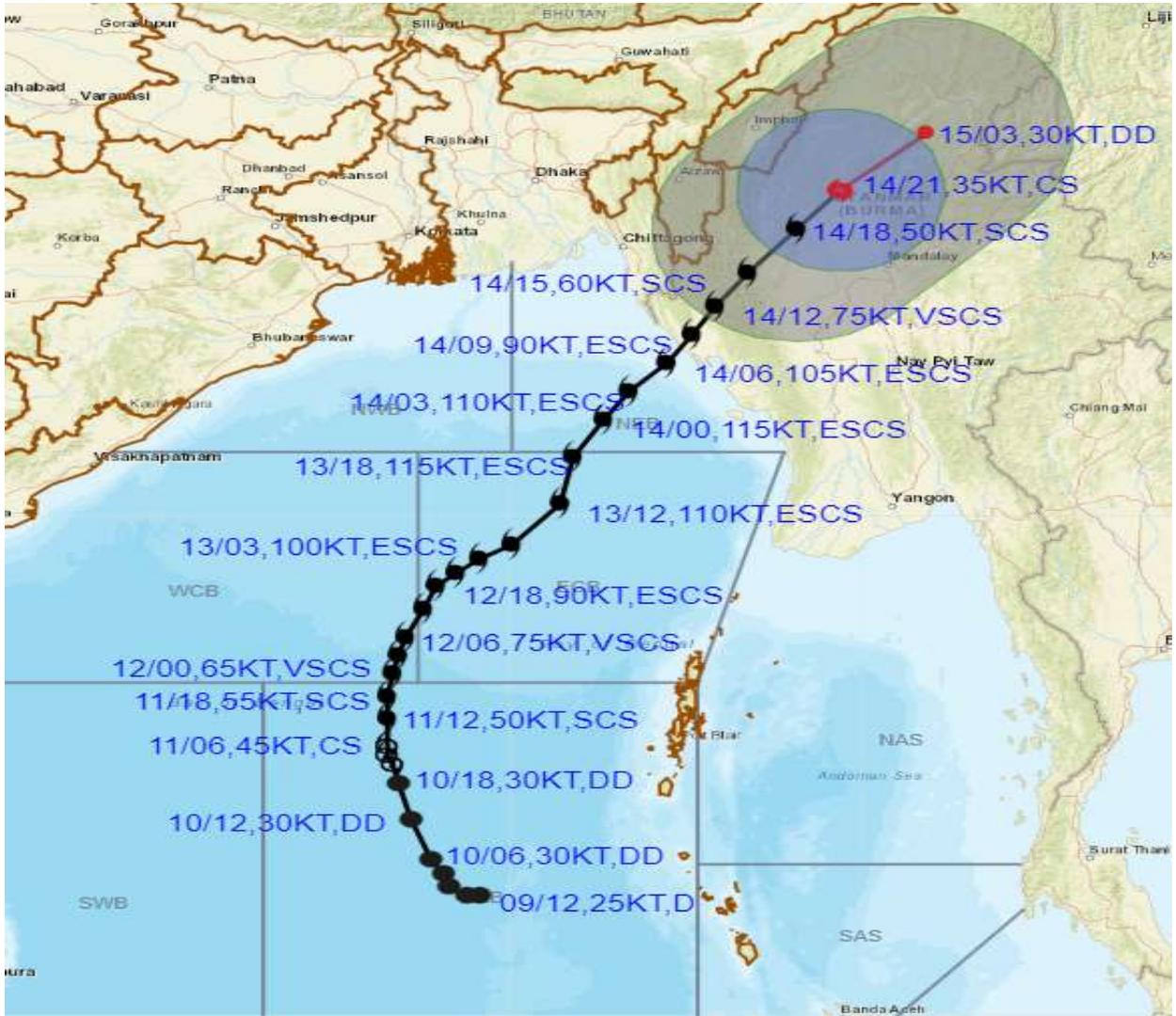
⊙ ≥ 48 KT

— OBSERVED TRACK

— FORECAST TRACK

▲ CONE OF UNCERTAINTY

OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM MOCHA OVER MYANMAR BASED ON 2100 UTC 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)

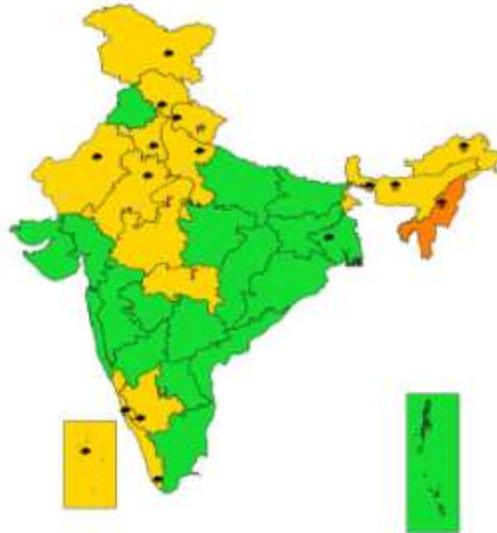
● LESS THAN 34 KT
 ○ 34-47 KT
 ● ≥ 48 KT
 — OBSERVED TRACK
 — FORECAST TRACK
 ● CONE OF UNCERTAINTY
 AREA OF MAXIMUM SUSTAINED WIND SPEED:
 ■ 28-33 KT (52-61 KMPH)
 ■ 34-49 KT (62-91 KMPH)
 ■ 50-63 KT (92-117 KMPH)
 ■ ≥ 64 KT (≥118 KMPH)

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



**SUBDIVISIONWISE WEATHER WARNING FOR DAY 1
(14-5-2023)**



- | | | |
|-----------------------------|------------------------|--------------------------|
| Subdivision Warning | Dust Storm | Subdivision color |
| ● Heavy Rain | ☼ Strong Surface Winds | ■ NO WARNING |
| ❄ Heavy Snow | ☀ Heat Wave | ■ WATCHME UPDATED |
| ⚡ Thunderstorms & Lightning | ❄ Cold wave | ■ ALERT (BE PREPARED) |
| ⚡ Hailstones | 🌫 Fog | ■ WARNING (TAKE ACTION) |



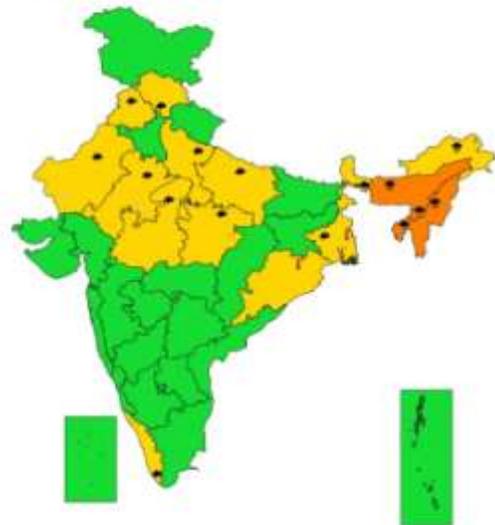
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 2
(15-5-2023)**



- | | | |
|-----------------------------|------------------------|--------------------------|
| Subdivision Warning | Dust Storm | Subdivision color |
| ● Heavy Rain | ☼ Strong Surface Winds | ■ NO WARNING |
| ❄ Heavy Snow | ☀ Heat Wave | ■ WATCHME UPDATED |
| ⚡ Thunderstorms & Lightning | ❄ Cold wave | ■ ALERT (BE PREPARED) |
| ⚡ Hailstones | 🌫 Fog | ■ WARNING (TAKE ACTION) |



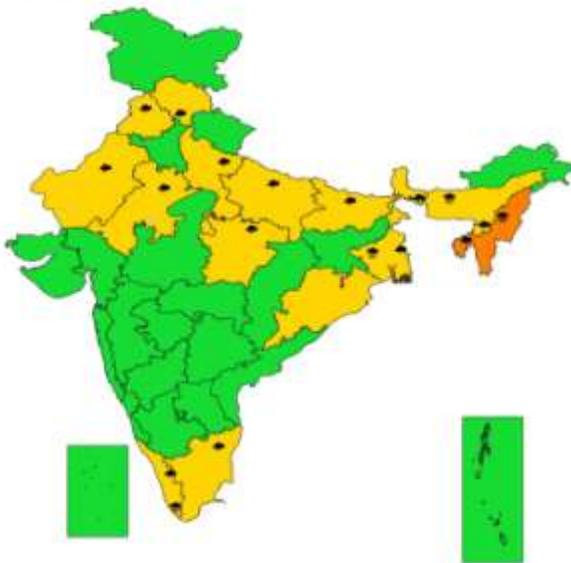
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 3
(16-5-2023)**



- | | | |
|-----------------------------|------------------------|--------------------------|
| Subdivision Warning | Dust Storm | Subdivision color |
| ● Heavy Rain | ☼ Strong Surface Winds | ■ NO WARNING |
| ❄ Heavy Snow | ☀ Heat Wave | ■ WATCHME UPDATED |
| ⚡ Thunderstorms & Lightning | ❄ Cold wave | ■ ALERT (BE PREPARED) |
| ⚡ Hailstones | 🌫 Fog | ■ WARNING (TAKE ACTION) |



**SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
(17-5-2023)**



- | | | |
|----------------------------|----------------------|--------------------------|
| Subdivision Warning | Dust Storm | Subdivision color |
| Heavy Rain | Strong Surface Winds | NO WARNING |
| Heavy Snow | Heat Wave | WATCH/BE UPDATED |
| Thunderstorms & Lightning | Cold wave | ALERT/BE PREPARED |
| Hailstorm | Fog | WARNING (TAKE ACTION) |



**SUBDIVISIONWISE WEATHER WARNING FOR DAY 5
(18-5-2023)**



- | | | |
|----------------------------|----------------------|--------------------------|
| Subdivision Warning | Dust Storm | Subdivision color |
| Heavy Rain | Strong Surface Winds | NO WARNING |
| Heavy Snow | Heat Wave | WATCH/BE UPDATED |
| Thunderstorms & Lightning | Cold wave | ALERT/BE PREPARED |
| Hailstorm | Fog | WARNING (TAKE ACTION) |

Fishermen warning graphics



	Squally WX with wind speed 40-50 kmph gusting to 60 kmph
	Squally WX with wind speed 45-55 kmph gusting to 65 kmph
	Squally wind with wind speed 50-60 kmph gusting to 70 kmph
	Gale wind speed 60-80 kmph gusting to 90 kmph
	Gale wind with wind speed 80-100 kmph gusting to 110 kmph
	Gale wind with wind speed 100-120 kmph gusting to 135 kmph
	Gale wind with wind speed 120-140 kmph gusting to 155 kmph
	Gale wind with wind speed 140-160 kmph gusting to 180 kmph
	Gale wind with wind speed 160-180 kmph gusting to 200 kmph
	Gale wind with wind speed 180-200 kmph gusting to 220 kmph
	Gale wind with wind speed 200-220 kmph gusting to 240 kmph

FISHERMEN ARE ADVISED NOT TO VENTURE INTO THE MARKED AREAS