

India Meteorological Department (Ministry of Earth Sciences)

BULLETIN NO. 31 (BoB/02/2023)

TIME OF ISSUE: 0530 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" (pronounced as "Mokha") over Eastcentral and adjoining Northeast 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 18 kmph during past 06 hours and lay centered at 0230 hours IST of today, the 14th May 2023 over Eastcentral and adjoining Northeast Bay of Bengal region near latitude 18.3°N and longitude 91.3°E, about 750 km north-northwest of Port Blair, 350 km south-southwest of Cox's Bazar (Bangladesh) and 260 km 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 today, the 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. ⁰ N/ long. ⁰ E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
14.05.23/0230	18.3/91.3	210-220 gusting to 240	Extremely Severe Cyclonic Storm
14.05.23/0530	19.1/91.6	200-210 gusting to 230	Extremely Severe Cyclonic Storm
14.05.23/1130	20.3/92.5	180-190 gusting to 210	Extremely Severe Cyclonic Storm
14.05.23/1730	21.5/93.4	120-130 gusting to 145	Very Severe Cyclonic Storm
14.05.23/2330	23.0./94.7	50-60 gusting to 70	Deep Depression
15.05.23/1130	26.3/97.4	25-35 gusting to 45	Low Pressure

Warnings:

(i) Rainfall (warning graphics enclosed)

- ❖ Tripura & Mizoram: Rainfall at most places with heavy to very heavy rainfall at isolated places on 14th May.
- ❖ Nagaland, Manipur & south Assam: Rainfall at many places with Heavy rainfall at isolated places is on 14th 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 14th May.

❖ North Andaman Sea:

Squally wind speed reaching 45-55 kmph gusting to 65 kmph is likely to prevail till 14th May forenoon.

Eastcentral Bay of Bengal:

Gale wind speed reaching 210-220 kmph gusting to 240 kmph is prevailing over the region. It would decrease gradually from 14th 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 14th May morning. It will decrease gradually thereafter becoming squally wind speed reaching 40-50 gusting to 60 kmph by 14th morning.

Northeast Bay of Bengal:

Gale wind speed reaching 210-220 kmph gusting to 240 kmph is prevailing and it would continue till 14th 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 to prevail till 14th May morning.

❖ Southeast Bay of Bengal:

Very rough to rough is likely to prevail till 14th May morning.

❖ Eastcentral Bay of Bengal:

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

Northeast Bay of Bengal:

Phenomenal sea condition is prevailing and would continue till 14th May afternoon.

❖ Adjoining areas of Northwest Bay of Bengal:

Rough to very rough sea condition is likely till 14th May.

(iv) Fishermen Warning (warning graphics enclosed)

- ❖ Fishermen, ships, boats and trawlers are advised not to venture into eastcentral and adjoining westcentral Bay of Bengal and north Andaman Sea till 14th May and into northeast Bay of Bengal till 14th 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

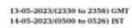
(vi) Damage expected & Action suggested: Marine community (shipping, offshore industries, Tourism etc. over Bay of Bengal, Andaman Sea & Andaman & Nicobar Islands)

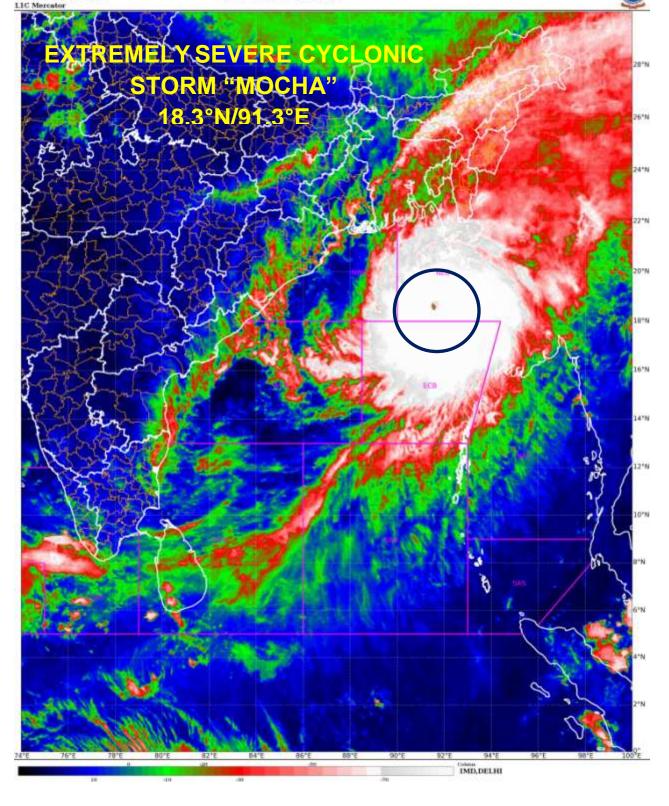
- Very rough to phenomenal sea could affect marine operation and offshore activities.
- Regulation of tourism and offshore activities and shipping near North Andaman Islands till 14th Mav.
- Regulation of shipping activity sea areas of northeast and adjoining eastcentral Bay of Bengal till 14th May.

The system is under continuous surveillance and the next message will be issued at 0830 hours IST of today, the 14th May 2023.

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

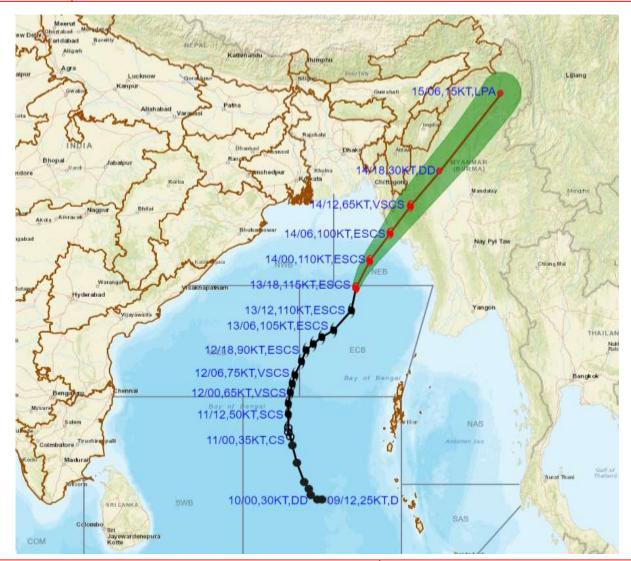
Copy to: ACWC Kolkata/ ACWC Chennai/ CWC Bhubaneswar/CWCVisakhapatnam/MO Port Blair







OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF EXTREMELY SEVERE CYCLONIC STORM MOCHA OVER EASTCENTRAL BAY OF BENGAL BASED ON 1800 UTC (2330 IST) OF 13TH 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)

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

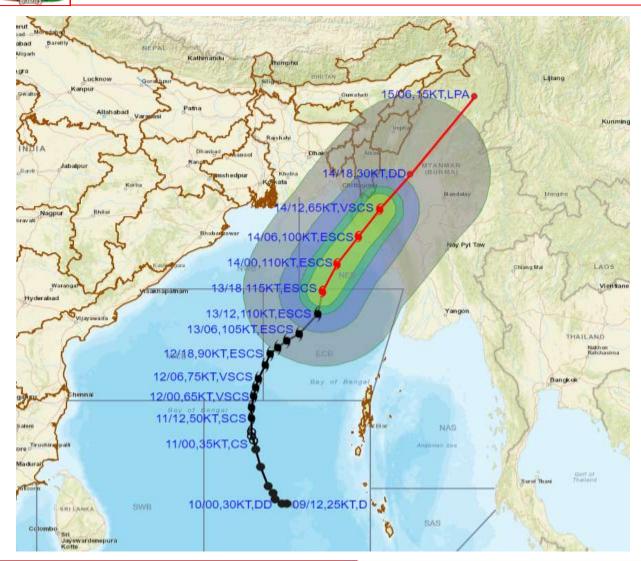
FORECAST TRACK

CONE OF UNCERTAINTY

Forecast distance (km) and direction of the centre from nearest 5 coastal stations								
	Lead Period	Lat	Lon	Station 1	Station 2	Station 3	Station 4	Station 5
13.05.23/1800	0	17.9	91.0	MANAUNG (308,WSW)	KYAUKPYU (318,WSW)	SITTWE (318,SW)	TEKNAF (357,SSW)	SANDOWAY (360,W)
14.05.23/1800	24	23	94.7	KALEWA (47,ESE)	KALEMYO (69,ESE)	MAWLAIK (76,SSE)	FALAM (105,E)	GANGAW (110,NNE)



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF EXTREMELY SEVERE CYCLONIC STORM MOCHA OVER EASTCENTRAL BAY OF BENGAL BASED ON 1800 UTC (2330 IST) OF 13TH 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
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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	

