

India Meteorological Department (Ministry of Earth Sciences)

NATIONAL BULLETIN NO. 34 (ARB/03/2023)

TIME OF ISSUE: 2230 HOURS IST

DATED: 24.10.2023

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) ADMINISTRATOR, LAKSHADWEEP ISLANDS (FAX NO. 0413-262184) CHIEF SECRETARY, KERALA (FAX NO. 0471-2327176) CHIEF SECRETARY, KARNATAKA (FAX NO. 080-22258913) CHIEF SECRETARY, GOA (FAX NO. 0832-2415201) CHIEF SECRETARY, MAHARASHTRA (FAX NO. 022- 22028594) CHIEF SECRETARY, GUJARAT (FAX NO. 079-23250305) CHIEF SECRETARY, DAMAN & DIU (FAX NO. 0260-2230775) CHIEF SECRETARY, DADRA & NAGAR HAVELI (FAX NO. 0260-2645466) CHIEF SECRETARY, ODISHA (FAX NO. 0674-2536660) CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328) CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029, 08645-246600) CHIEF SECRETARY, TAMIL NADU (FAX NO 044-25672304) CHIEF SECRETARY, PUDUCHERRY (FAX NO 0413-2334145) CHIEF SECRETARY, GOVT. OF TRIPURA (FAX NO. 0381-2414013, 2413200) CHIEF SECRETARY, GOVT. OF MIZORAM (FAX NO. 0389-2322745, 2320588) CHIEF SECRETARY, GOVT. OF MANIPUR (FAX NO. 0385-2452629) CHIEF SECRETARY, GOVT. OF NAGALAND (FAX NO. 0370-2270057) ADMINISTRATOR, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192-232656)

Sub: (A) Depression [Remnant of the Cyclonic Storm "Tej" (pronounced as Tej)] weakened into a Well Marked Low Pressure Area over Yemen

(B) Severe Cyclonic Storm "Hamoon" (pronounced as Hamoon) over Northeast Bay of Bengal.

(A) Depression [Remnant of the Cyclonic Storm "Tej" (pronounced as Tej)] weakened into a Well Marked Low Pressure Area over Yemen

The Depression **[Remnant of the Cyclonic Storm "Tej" (pronounced as Tej)]** over Yemen moved west-northwestward during past 6 hours and weakened into a Well Marked Low Pressure Area over the same region at 2030 hours IST of today, the 24th October.

It is very likely to move further west-northwestwards and weaken into a Low Pressure Area during next 6 hours.

Warnings:

(i) Wind warning (warning graphics enclosed):

 Westcentral Arabian Sea: Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail during next 03 hours and improve gradually thereafter.

(ii) Sea Condition

• Westcentral Arabian Sea:

Rough condition is likely to prevail during next 03 hours and improve gradually thereafter.

(iii) Fishermen Warning (Graphics attached):

Fishermen are advised not to venture into Westcentral Arabian Sea during next 06 hours.

This is the last bulletin for this system.

NATIONAL BULLETIN NO. 34 (BOB/04/2023)

(B) Severe Cyclonic Storm "Hamoon" (pronounced as Hamoon) over Northeast Bay of Bengal

The Severe Cyclonic Storm "Hamoon" (pronounced as Hamoon) over Northeast Bay of Bengal moved east-northeastwards with a speed of 23 kmph during past 6 hours and lay centered at 2030 hours IST of today, the 24th October over the same region, near latitude 21.3°N and longitude 91.3°E, about 390 km east-southeast of Digha (West Bengal), 130 km east-southeast of Khepupara (Bangladesh) and 130 km south-southwest of Chittagong (Bangladesh).

It is likely to further weaken gradually into a Cyclonic Storm during next 09 hours. It is likely to move northeastwards and cross Bangladesh coast to the south of Chittagong by early hours of 25th October as a **Cyclonic Storm with wind speed of 80 to 90 kmph gusting to 100 kmph**. *Landfall process is likely to commence from mid-night of today, the 24th October 2023.*

Date/Time (IST)	Position	Maximum sustained surface	Category of cyclonic disturbance	
	(Lat. ^⁰ N/ long. ^⁰ E)	wind speed (Kmph)		
24.10.23/2030	21.3/91.3	100-110 gusting to 120	Severe Cyclonic Storm	
24.10.23/2330	21.6/91.6	95-105 gusting to 115	Severe Cyclonic Storm	
25.10.23/0530	22.2/92.2	80-90 gusting to 100	Cyclonic Storm	
25.10.23/1130	22.8/92.7	60-70 gusting to 80	Cyclonic Storm	
25.10.23/1730	23.4/93.2	40-50 gusting to 60	Depression	
25.10.23/2330	24.0/93.7	25-35 gusting to 45	Low Pressure Area	

Forecast track and intensity are given below:

<u>Warnings:</u>

(i) Rainfall Warning:

Manipur, Mizoram & Tripura and south Assam & Meghalaya: Light to moderate rainfall is very likely at most places with isolated heavy rainfall over Mizoram and Tripura on 24th and 25th and over south Assam & Meghalaya on 24th October. Light to moderate rainfall is likely at many places over Mizoram and Tripura on 26th October.

Light to moderate rainfall is very likely at many places over Nagaland and Manipur during 24-26th October and east Arunachal Pradesh on 25th & 26th October.

(ii) Wind warning (warning graphics enclosed):

• Northeast Bay of Bengal:

Gale wind speed reaching **105-115 kmph gusting to 125 kmph** is prevailing and likely to continue during next 03 hours. It would decrease gradually thereafter becoming **Gale wind** speed reaching 95-105 kmph gusting to 115 kmph by 24th midnight and 80-90 kmph gusting to 100 kmph by 25th early morning and would decrease thereafter.

• Northwest Bay of Bengal:

Gale wind speed reaching **105-115 kmph gusting 125 kmph** is prevailing and likely to continue during next 03 hours. It would decrease gradually thereafter becoming **Gale wind** speed reaching **80-90 kmph gusting to 100 kmph** by 24th midnight, **Squally wind** speed reaching **50-60 kmph gusting to 70 kmph** by 25th evening and would decrease thereafter.

- Adjoining eastcentral Bay of Bengal: Squally wind speed reaching 50-60 kmph gusting to 70 kmph is prevailing and would gradually decrease from 25th forenoon.
- Along & off West Bengal, Bangladesh and north Myanmar coasts: Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail along & off West Bengal coast till 25th morning.

Gale wind speed reaching 70-80 gusting to 90 kmph is prevailing along & off Bangladesh coast. It would gradually increase becoming **80-90 kmph gusting to 100 kmph** along & off Bangladesh and adjoining north Myanmar coast from midnight of today till early morning of 25th. **Squally wind** speed reaching **55-65 kmph gusting to 75 kmph likely** along & off remaining parts of north Myanmar coast during the same period and decrease thereafter.

Mizoram, Tripura, south Assam and Manipur:

Squally wind speed reaching **40-50 kmph gusting to 60 kmph** is likely to prevail over Mizoram and Tripura and Strong wind speed reaching **30-40 kmph gusting to 50 kmph** over south Assam & Manipur on 25th October.

(iii) Sea Condition

- Northeast Bay of Bengal and along & off Bangladesh & adjoining north Myanmar coasts: Very high sea conditions are prevailing and likely to continue till early morning of 25th and would become high thereafter till 25th morning and very rough to rough till 25th October evening.
- Northwest Bay of Bengal: High to Very high sea conditions are prevailing and likely to continue till today midnight and would become very rough to rough thereafter till 25th morning and gradually improve thereafter.
- Adjoining eastcentral Bay of Bengal: Very rough to rough till 25th October forenoon. It is likely to improve gradually thereafter.
- Along & off West Bengal coasts: Rough to very rough sea conditions likely to prevail till 25th October morning.

(iv) Fishermen Warning (Graphics attached):

Fishermen are advised not to venture into

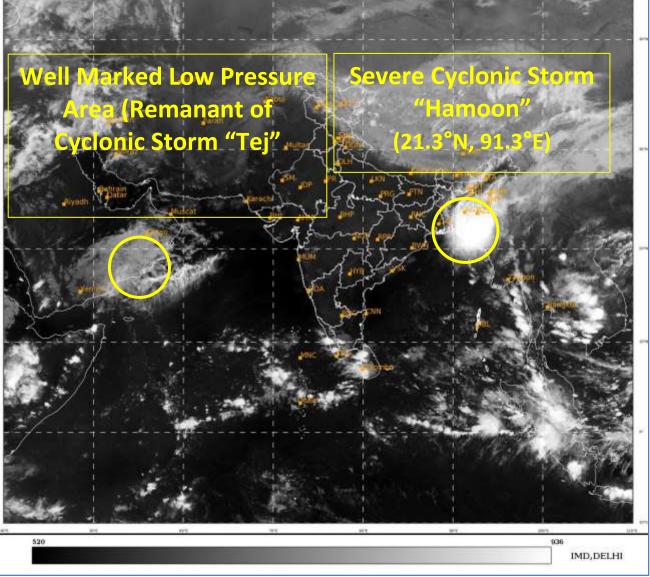
- North Bay of Bengal and along & off West Bengal, Bangladesh and north Myanmar coasts till 25th October.
- Adjoining areas of Eastcentral Bay of Bengal till 25th October morning.

System is under continuous surveillance and the next bulletin will be issued at 0230 hours IST of 25th October, 2023.

(Shobhit Katiyar) Scientist D, Cyclone Warning Division, New Delhi

Copy to: ACWC Mumbai/ ACWC Chennai/ ACWC Kolkata/CWC Ahmedabad/CWC Bhubaneswar/CWC Vishakhapatnam/CWC Thiruvananthapuram/MC Goa

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100% Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more. SAT : INSAT-3D IMG IMG_TIR1 10.8 um L1C Mercator

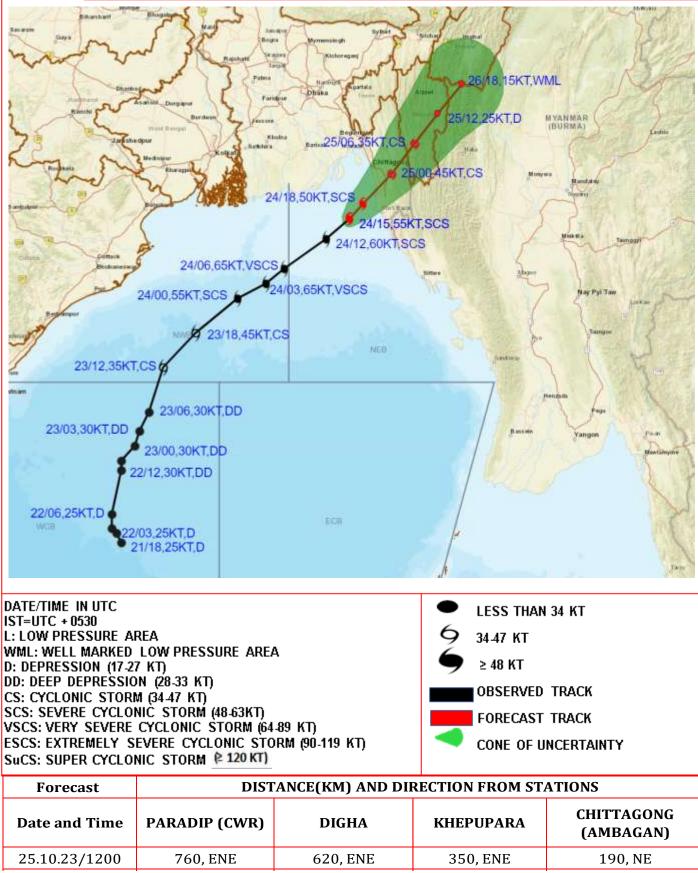


24-10-2023/(1530 to 1556) GMT

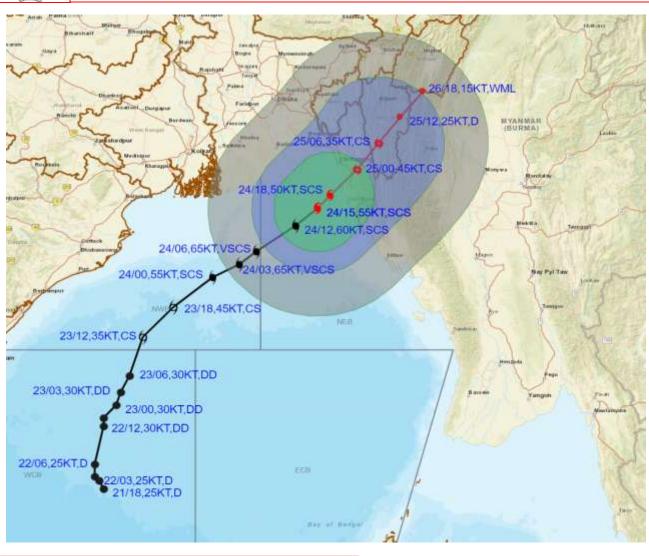
24-10-2023/(2100 to 2126) IST



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF SEVERE CYCLONIC STORM "HAMOON" OVER NORTHEAST BAY OF BENGAL BASED ON 1500 UTC (2030 IST) OF 24TH OCTOBER 2023.



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF SEVERE CYCLONIC STORM "HAMOON" OVER NORTHEAST BAY OF BENGAL BASED ON 1500 UTC (2030 IST) OF 24TH OCTOBER 2023.

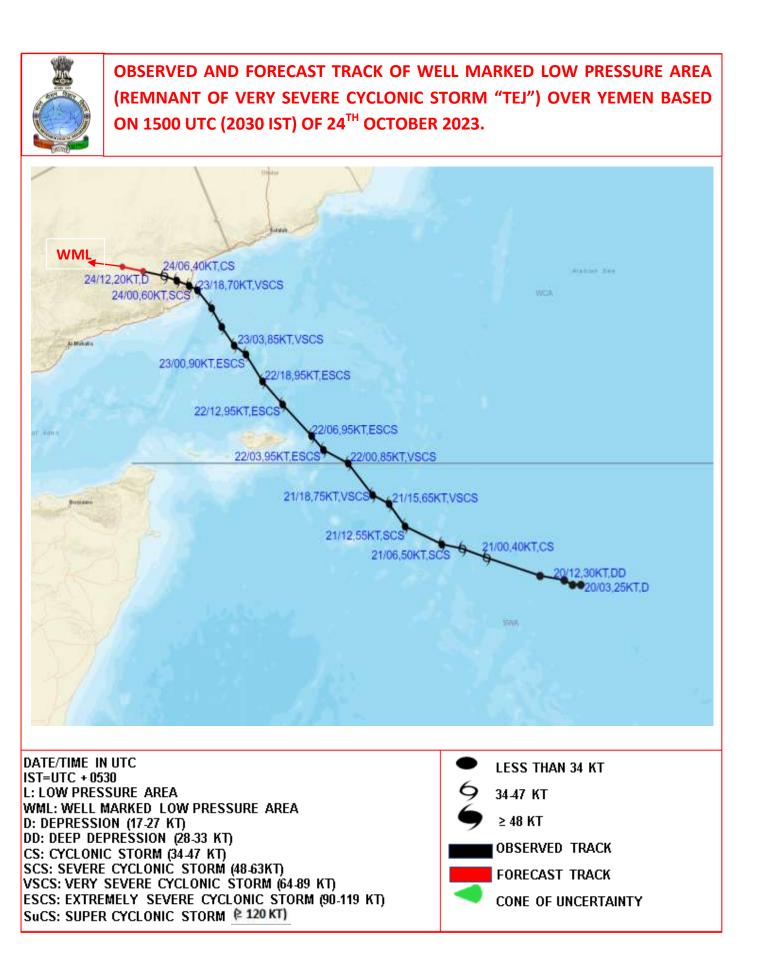


DATE/TIME IN UTC IST=UTC + 0530 L: LOW PRESSURE AREA WML: WELL MARKED LOW PRESSURE AREA D: DEPRESSION (17-27 KT) DD: DEEP DEPRESSION (28-33 KT) CS: CYCLONIC STORM (34-47 KT) SCS: SEVERE CYCLONIC STORM (48-63KT) VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT) ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT) SuCS: SUPER CYCLONIC STORM (≥20 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)

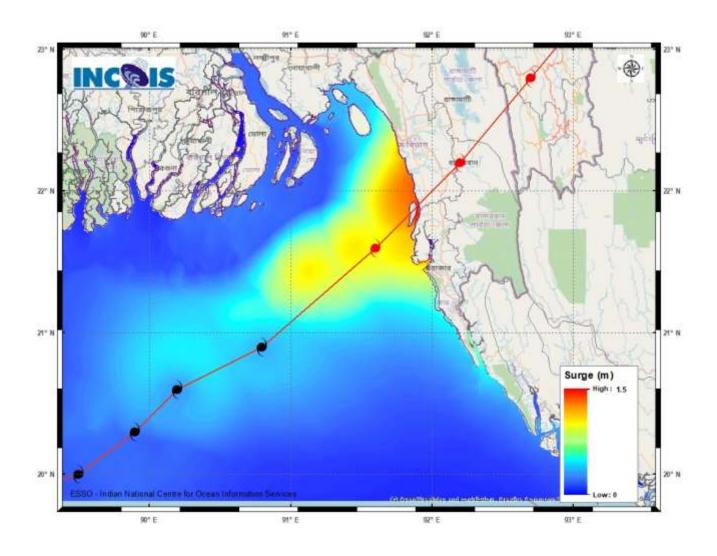
IMPACT OVER THE SEA

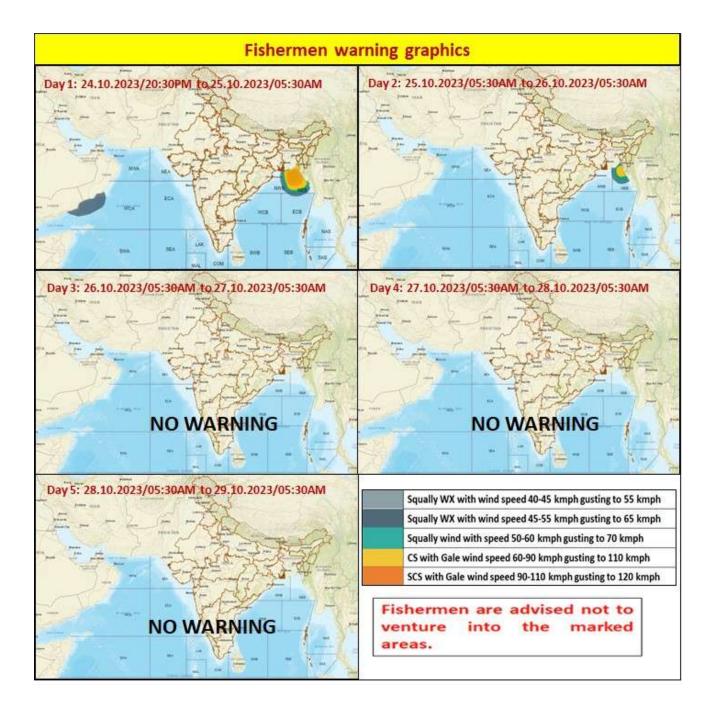
MSW (knot/kmph)	Impact	Action
28-33 (52-61)	Very rough seas	Total suspension of fishing operations
34-49 (62-91)	High to very high seas	Total suspension of fishing operations
50-63 (92-117)	Very high seas	Total suspension of fishing operations
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations



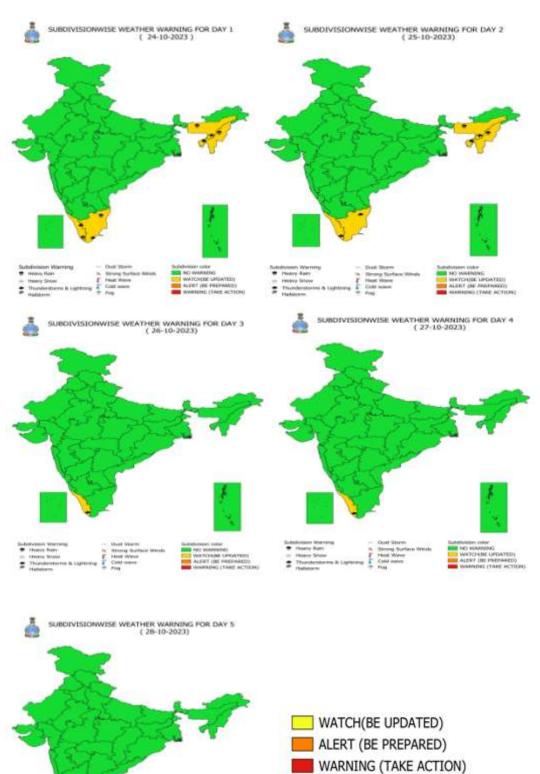
STORM SURGE GUIDANCE FOR BANGLADESH:

Storm surge of about 1.0-1.5 metre height above the astronomical tide is likely to inundate low lying areas between Khepupara and Chittagong (Bangladesh) around the time of landfall.





WEATHER WARNING GRAPHICS



Substrates Hypermal Image Ram Image Ram

WATCHON UPDATED