



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

NATIONAL BULLETIN NO. 35 (BOB/04/2023)

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Sub: Severe Cyclonic Storm "Hphoon" (pronounced as Hphoon) over Northeast Bay of Bengal.

The Severe Cyclonic Storm "Hphoon" (pronounced as Hphoon) over Northeast Bay of Bengal moved nearly northeastwards with a speed of 19 kmph during past 6 hours and lay centered at 2330 hours IST of 24th October over the same region, near latitude 21.6°N and longitude 91.6°E, about 420 km east-southeast of Digha (West Bengal), 150 km east-southeast of Khepupara (Bangladesh) and 80 km south-southwest of Chittagong (Bangladesh).

Landfall process has commenced. The severe cyclonic storm is very likely to move northeastwards weakened into a cyclonic storm and cross Bangladesh coast to the south of Chittagong within a few hours with wind speed of 80 to 90 kmph gusting to 100 kmph.

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
24.10.23/2330	21.6/91.6	90-100 gusting to 110	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

Warnings:

(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 25th 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, Manipur and east Arunachal Pradesh on 25th & 26th October.

(ii) Wind warning (warning graphics enclosed):

• **Northeast Bay of Bengal:**

Gale wind speed reaching **90-100 kmph gusting to 110 kmph** is prevailing and likely to decrease gradually becoming **80-90 kmph gusting to 100 kmph** by 25th morning and would decrease thereafter.

• **Northwest Bay of Bengal:**

Gale wind speed reaching **80-90 kmph gusting to 100 kmph** is prevailing and likely to decrease gradually thereafter becoming **Squally wind** speed reaching **50-60 kmph gusting to 70 kmph** by 25th morning 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 **80-90 kmph gusting to 100 kmph** is prevailing along & off Bangladesh and adjoining north Myanmar coast and continue till early morning of 25th and decrease thereafter. **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 morning of 25th and would become **high** thereafter till 25th noon and **very rough to rough** by 25th October evening.

• **Northwest Bay of Bengal:**

High to very rough sea conditions are prevailing and likely to continue till 25th morning and would become **rough** till 25th evening and improve thereafter.

- **Adjoining eastcentral Bay of Bengal: Very rough to rough** sea condition is likely to prevail till 25th October forenoon and improve gradually thereafter.
- **Along & off West Bengal coasts: Rough to very rough** sea conditions is 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 0530 hours IST of 25th October, 2023.

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

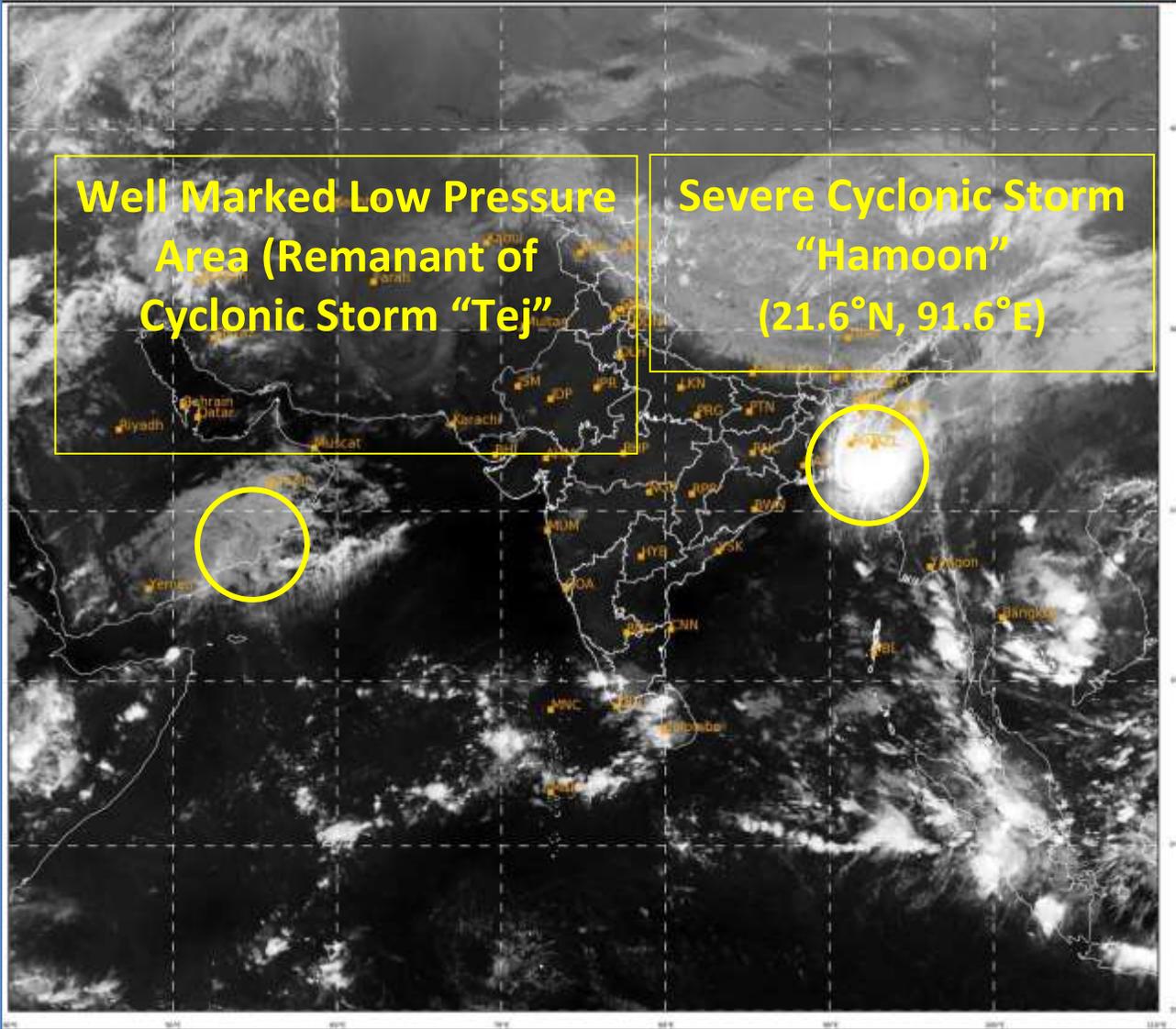
Copy to: ACWC Mumbai/ ACWC Chennai/ ACWC Kolkata/CWC Ahmedabad/CWC Bhubaneswar/CWC Vishakhapatnam/CWC Thiruvananthapuram/MC Goa

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.



**Well Marked Low Pressure
Area (Remanant of
Cyclonic Storm "Tej")**

**Severe Cyclonic Storm
"Hamoon"
(21.6°N, 91.6°E)**



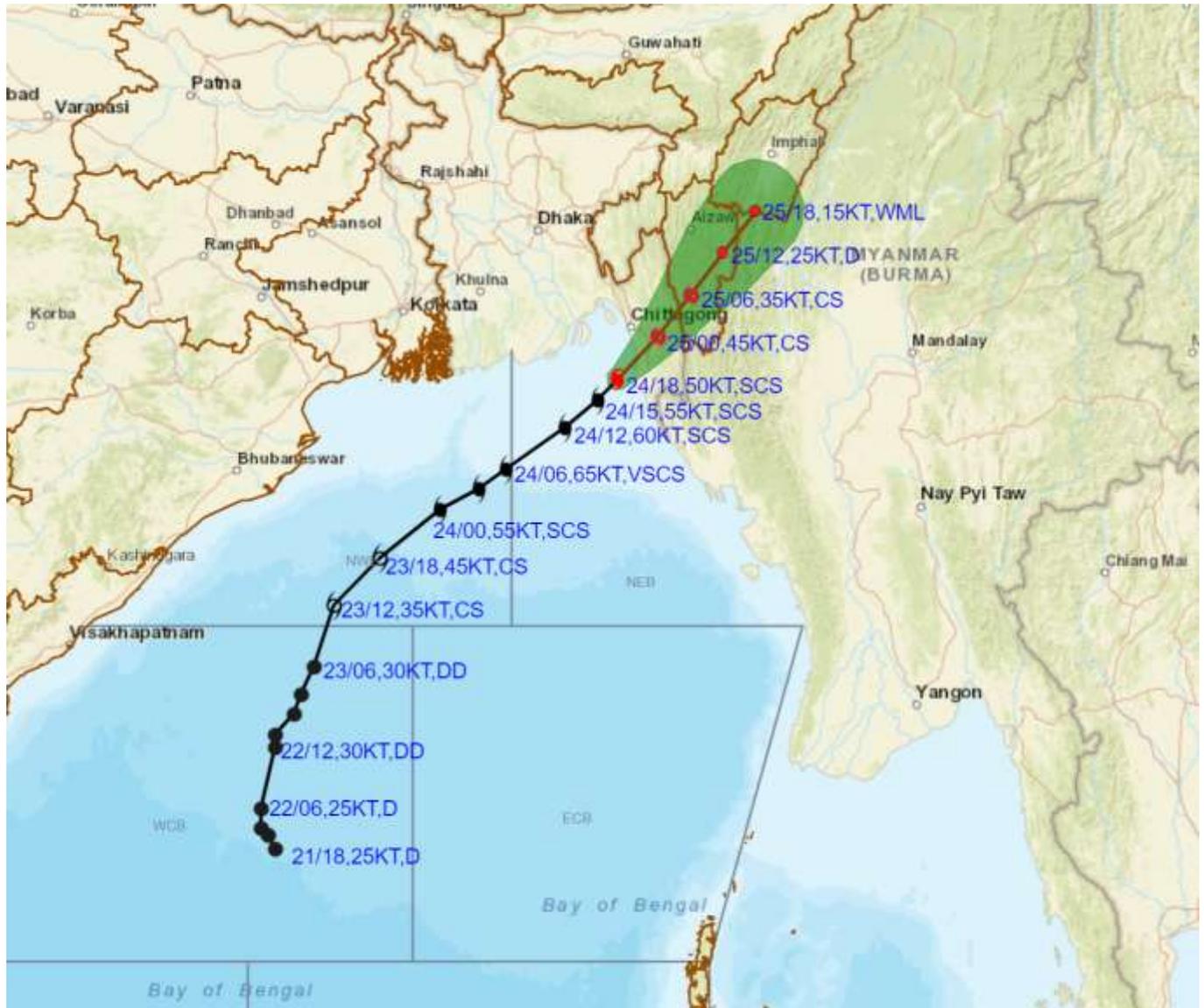
526

936

IMD, DELHI



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF SEVERE CYCLONIC STORM "HAMOON" OVER NORTHEAST BAY OF BENGAL BASED ON 1800 UTC (2330 IST) OF 24TH OCTOBER 2023.



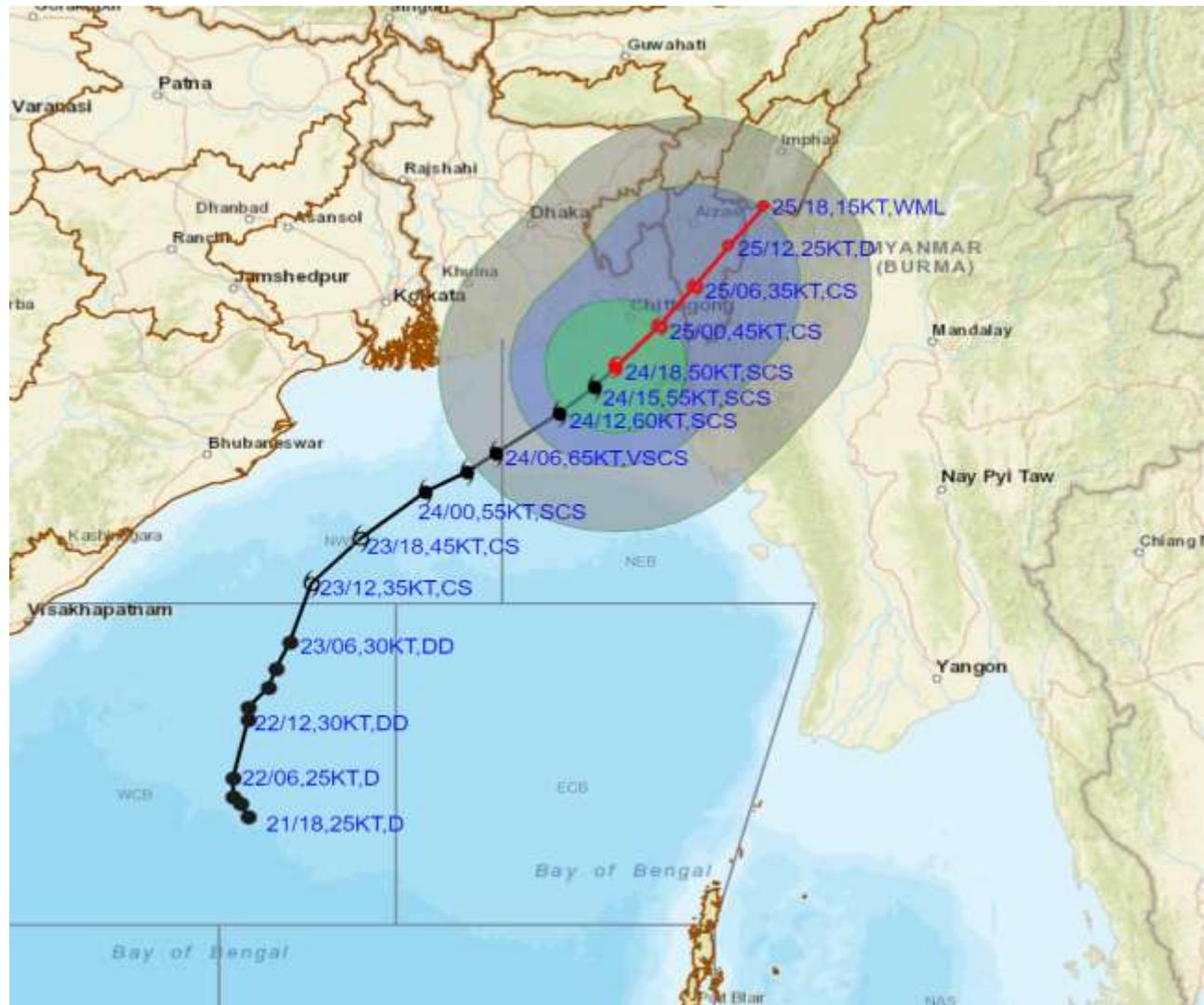
DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
 SuCS: SUPER CYCLONIC STORM (\geq 120 KT)

- LESS THAN 34 KT
- 34-47 KT
- \geq 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY

Forecast	DISTANCE(KM) AND DIRECTION FROM STATIONS			
Date and Time	PARADIP (CWR)	DIGHA	KHEPUPARA	CHITTAGONG (AMBAGAN)
25.10.23/1800	830, ENE	690, ENE	420, ENE	270, NE



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF SEVERE CYCLONIC STORM "HAMOON" OVER NORTHEAST BAY OF BENGAL BASED ON 1800 UTC (2330 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

○ 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)

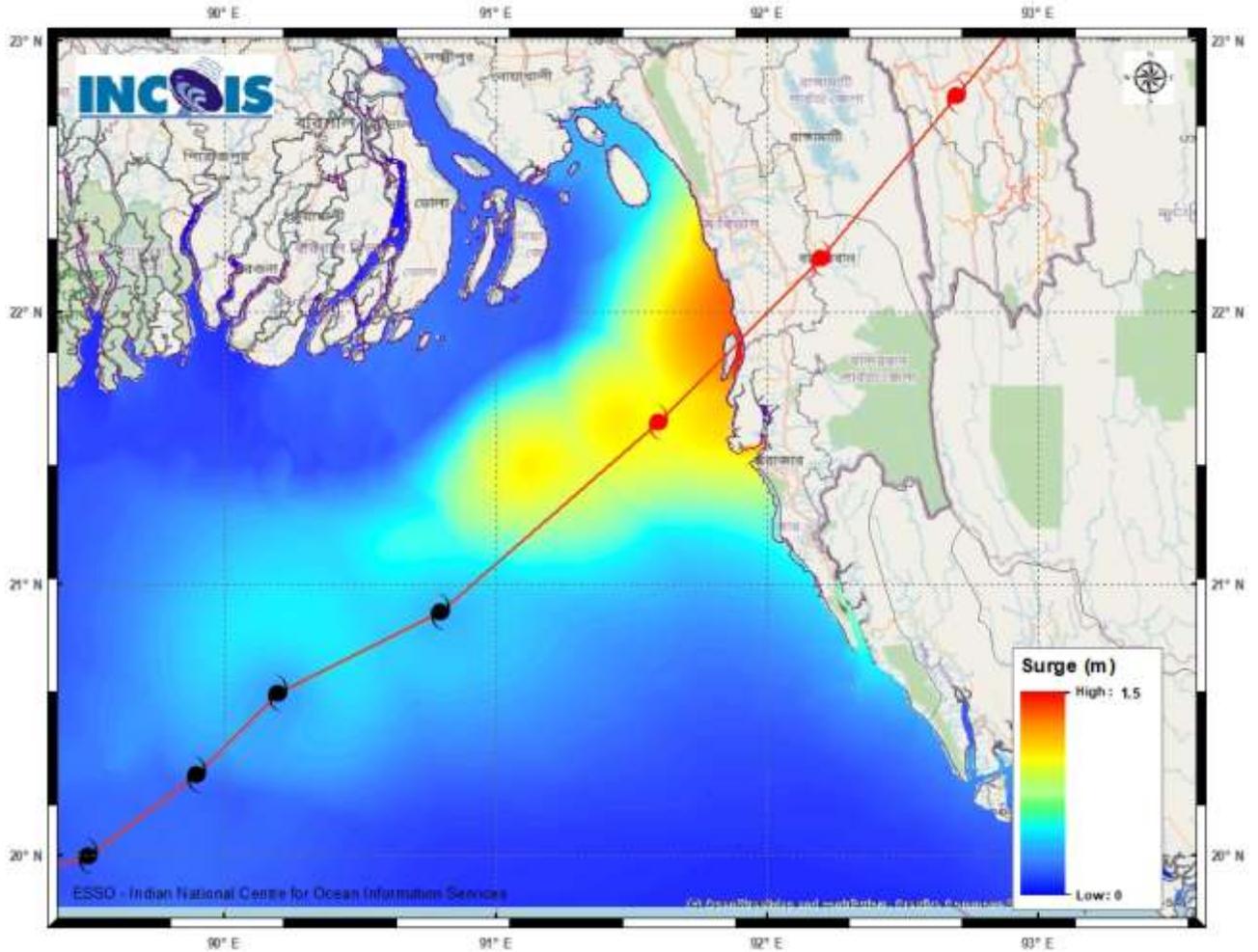
■ ≥ 64 KT (≥118 KMPH)

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

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.



Fishermen warning graphics

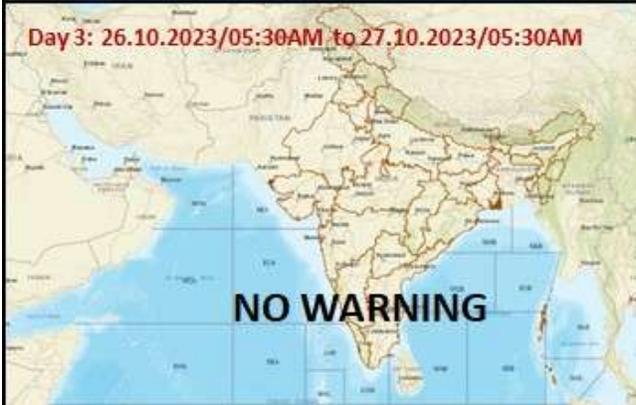
Day 1: 24.10.2023/20:30PM to 25.10.2023/05:30AM



Day 2: 25.10.2023/05:30AM to 26.10.2023/05:30AM



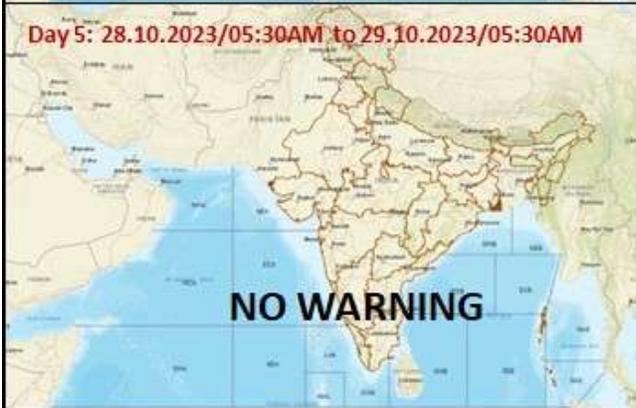
Day 3: 26.10.2023/05:30AM to 27.10.2023/05:30AM



Day 4: 27.10.2023/05:30AM to 28.10.2023/05:30AM



Day 5: 28.10.2023/05:30AM to 29.10.2023/05:30AM



Squally WX with wind speed 40-45 kmph gusting to 55 kmph

Squally WX with wind speed 45-55 kmph gusting to 65 kmph

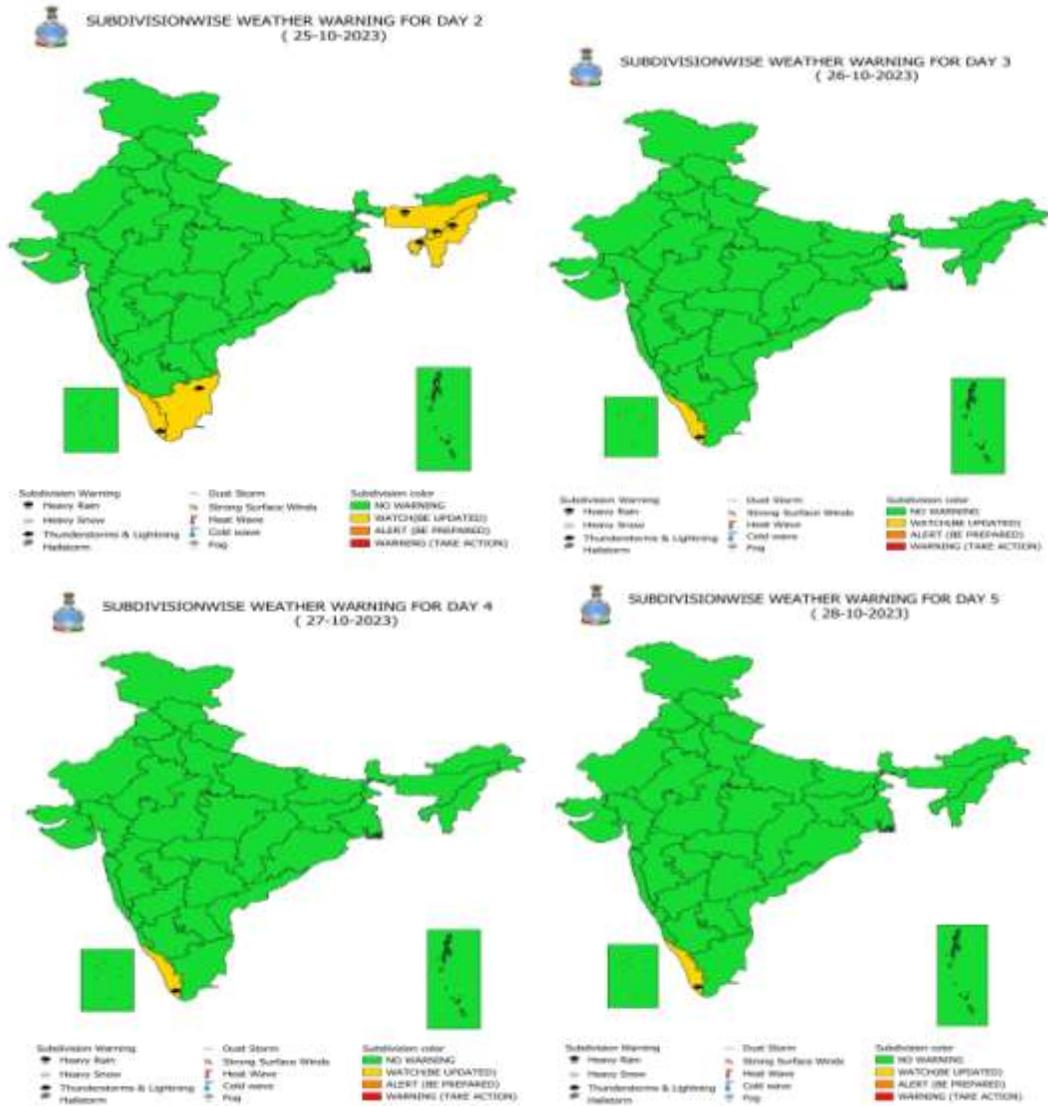
Squally wind with speed 50-60 kmph gusting to 70 kmph

CS with Gale wind speed 60-90 kmph gusting to 110 kmph

SCS with Gale wind speed 90-110 kmph gusting to 120 kmph

Fishermen are advised not to venture into the marked areas.

WEATHER WARNING GRAPHICS



WATCH(BE UPDATED)
 ALERT (BE PREPARED)
 WARNING (TAKE ACTION)