



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

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Sub: (A) Deep Depression [Remnant of the Cyclonic Storm "Tej" (pronounced as Tej)] over Yemen and (B) Very Severe Cyclonic Storm "Hamoon" (pronounced as Hamoon) over Northeast & Adjoining Northwest Bay of Bengal.

(A) Deep Depression [Remnant of the Cyclonic Storm "Tej" (pronounced as Tej)] over Yemen

The **Cyclonic Storm** "TEJ" (Pronounced as Tej) over Yemen moved west-northwestward with a speed of 09 kmph during past 6 hours, weakened into a Deep Depression and lay centered at 1430 hours IST of today, the 24th October over Yemen, near latitude 16.1°N and longitude 51.3°E, about 80 km west of Al Ghaidah (Yemen) and 310 km west-southwest of Salalah (Oman).

It is very likely to move further west-northwestwards and weaken into a Depression during next 03 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
24.10.23/1430	16.1/51.3	70-80 gusting to 90	Deep Depression
24.10.23/1730	16.2/51.2	30-40 gusting to 50	Depression

Warnings:

(i) Wind warning (warning graphics enclosed):

• **Westcentral Arabian Sea:**

Gale wind speed reaching **70-80 kmph gusting to 90 kmph** is prevailing and decrease gradually becoming squally wind speed reaching **30-40 gusting to 50 kmph** from evening of 24th October.

(ii) Sea Condition

• **Westcentral Arabian Sea:**

Very rough to rough condition is prevailing and likely to continue during next 03 hours and become rough thereafter for subsequent 12 hours.

(iii) Fishermen Warning (Graphics attached):

Fishermen are advised not to venture into **Westcentral Arabian Sea** till night of 24th October.

(B) Very Severe Cyclonic Storm “Hamon” (pronounced as Hamoon) over Northeast & adjoining Northwest Bay of Bengal

The Very Severe Cyclonic Storm “Hamon” (pronounced as Hamoon) over Northwest and adjoining Northeast Bay of Bengal moved northeastwards with a speed of 17 kmph during past 6 hours and lay centered at 1430 hours IST of today, the 24th October over Northeast & adjoining Northwest Bay of Bengal, near latitude 20.6°N and longitude 90.2°E, about 300 km east-southeast of Digha (West Bengal), 150 km south of Khepupara (Bangladesh) and 250 km southwest of Chittagong (Bangladesh).

It is likely to weaken gradually into a **Severe Cyclonic Storm** during next 03 hours. It is likely to further weaken while moving northeastwards and cross Bangladesh coast close to 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**.

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
24.10.23/1430	20.6/90.2	120-130 gusting to 145	Very Severe Cyclonic Storm
24.10.23/1730	20.8/90.6	105-115 gusting to 125	Severe Cyclonic Storm
24.10.23/2330	21.3/91.3	100-110 gusting to 120	Severe Cyclonic Storm
25.10.23/0530	21.9/92.0	80-90 gusting to 100	Cyclonic Storm
25.10.23/1130	22.4/92.5	65-75 gusting to 85	Cyclonic Storm
25.10.23/2330	23.6/93.5	40-50 gusting to 60	Depression

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 24th and 25th and over

south Assam 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 **120-130 kmph gusting to 145 kmph** is prevailing and likely to continue during next 03 hours. It would decrease gradually thereafter becoming **Gale wind** speed reaching **100-110 kmph gusting to 120 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 **120-130 kmph gusting 145 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, and **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 increase becoming **80-90 kmph gusting to 100 kmph** from 24th October midnight and decrease thereafter becoming **60-70 kmph gusting to 80 kmph from morning of 25th and squally winds speed reaching 45-55 gusting to 65 kmph from noon for next 06 hours.**

• **Along & off Odisha, West Bengal, Bangladesh and north Myanmar coasts:**

Squally wind speed reaching **40-50 kmph gusting to 60 kmph** is likely prevailing along & off Odisha coast on 24th. **Squally wind** speed reaching **40-50 kmph gusting to 60 kmph** is prevailing along & off West Bengal, Bangladesh and North Myanmar coasts from 24th morning. It would gradually increase becoming **80-90 kmph gusting to 100 kmph** along & off Bangladesh and adjoining north Myanmar coast and **55-65 kmph gusting to 75 kmph** along & off remaining parts of north Myanmar coast from early hours of 25th October for subsequent 06 hours and decrease thereafter. Squally winds speed reaching **45-55 kmph gusting to 65 kmph** along & off west Bengal coast till early morning of 25th October.

• **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:**

Phenomenal sea conditions are prevailing and likely to continue till 24th evening and would become very high to high thereafter till 25th morning and very rough to rough till 25th October evening.

• **Northwest Bay of Bengal:**

Phenomenal sea conditions are prevailing and likely to continue till 24th evening and would become very high to high thereafter till 24th night and then very rough to rough by 25th October morning.

• **Adjoining eastcentral Bay of Bengal: Very rough to rough** till 25th October morning. It is likely to improve gradually thereafter.

• **Along & off West Bengal coasts: Rough to very rough sea conditions** till 25th October morning.

(iv) Fishermen Warning (Graphics attached):

Fishermen are advised not to venture into

- ❖ **North Bay of Bengal and along & off Odisha, West Bengal, Bangladesh and north Myanmar coasts** during 24th to 25th October.

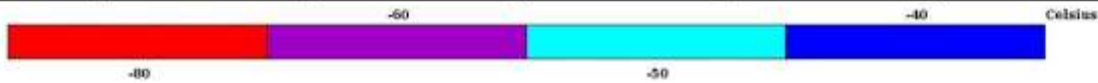
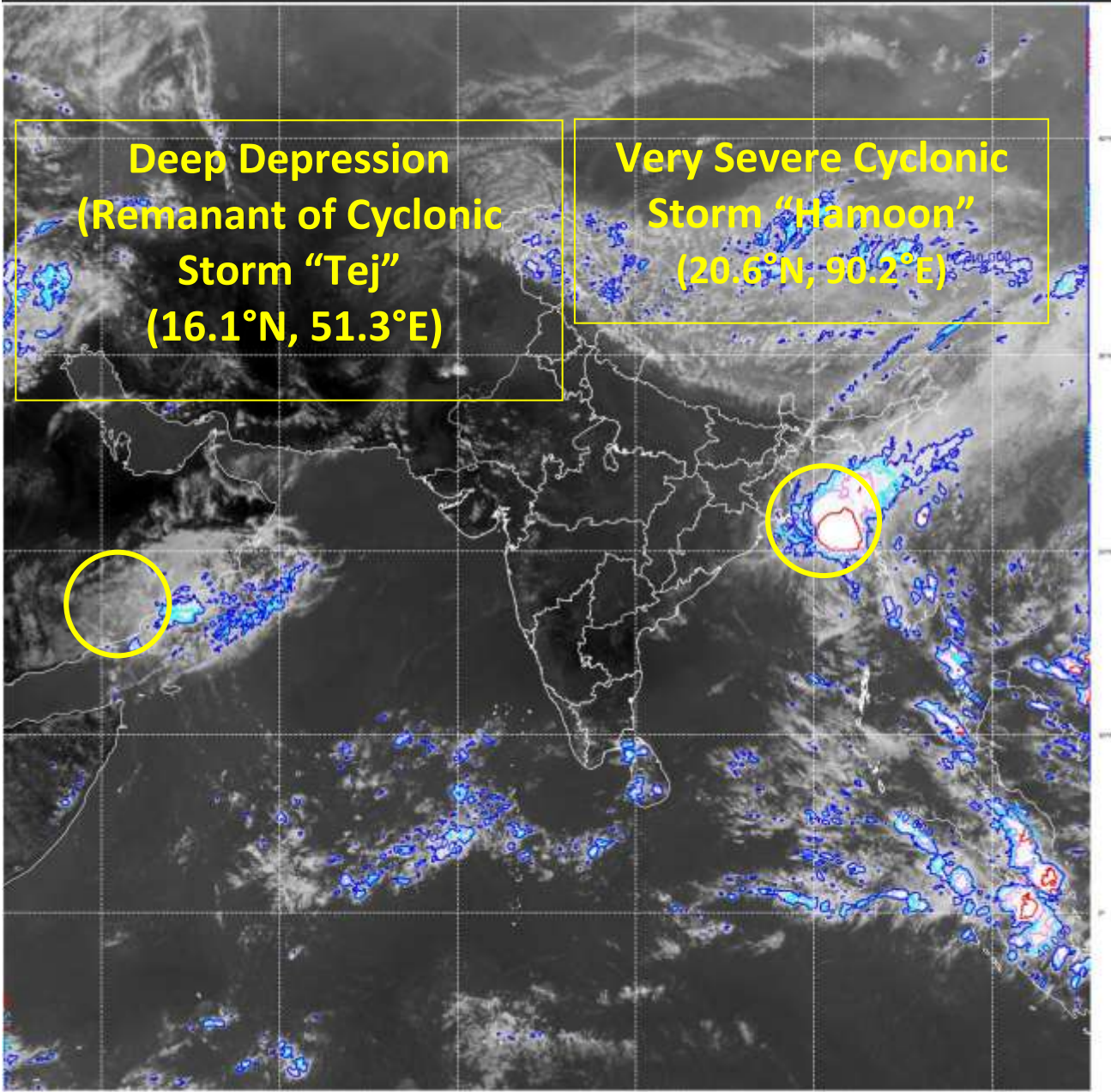
❖ **Adjoining areas of Eastcentral Bay of Bengal** till 25th October morning.

Both the systems are under continuous surveillance and the next bulletin will be issued at 2030 hours IST of 24th October, 2023.

(Ananda Kumar Das)
Scientist F, 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.





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF CYCLONIC STORM “TEJ” OVER COASTAL YEMEN BASED ON 0600 UTC (1130 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**

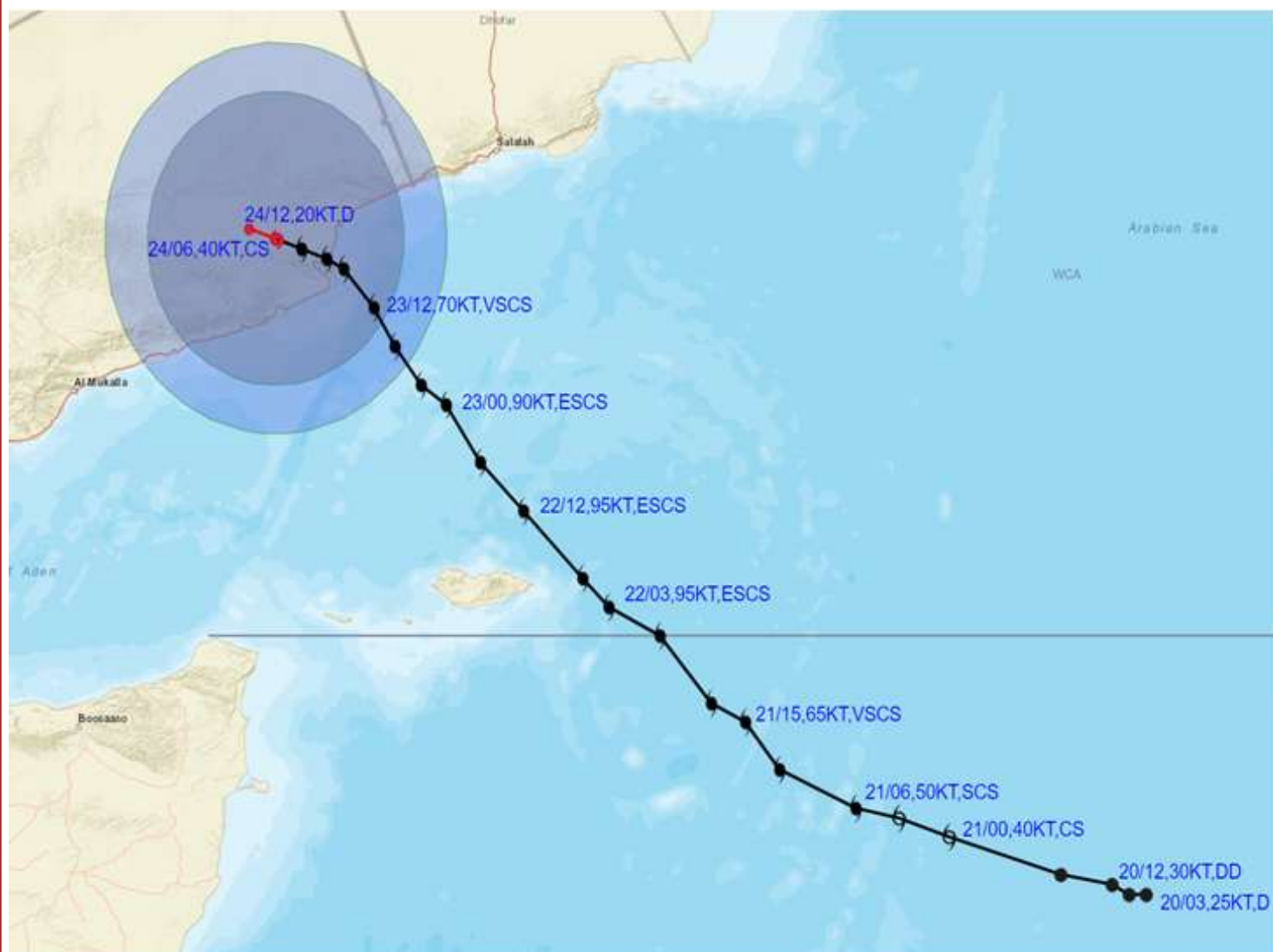
 **OBSERVED TRACK**

 **FORECAST TRACK**

 **CONE OF UNCERTAINTY**



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM "TEJ" OVER COASTAL YEMEN BASED ON 0600 UTC (1130 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)

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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
- AREA OF MAXIMUM SUSTAINED WIND SPEED:
- 28-33 KT (52-61 KMPH)
- 34-49 KT (62-91 KMPH)
- 50-63 KT (92-117 KMPH)
- \geq 64 KT (\geq 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
\geq 64 (\geq 118)	Phenomenal	Total suspension of fishing operations



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF VERY SEVERE CYCLONIC STORM "HAMOON" OVER NORTHWEST & ADJOINING NORTHEASTBAY OF BENGAL BASED ON 0600 UTC (1130 IST) OF 24TH OCTOBER 2022



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

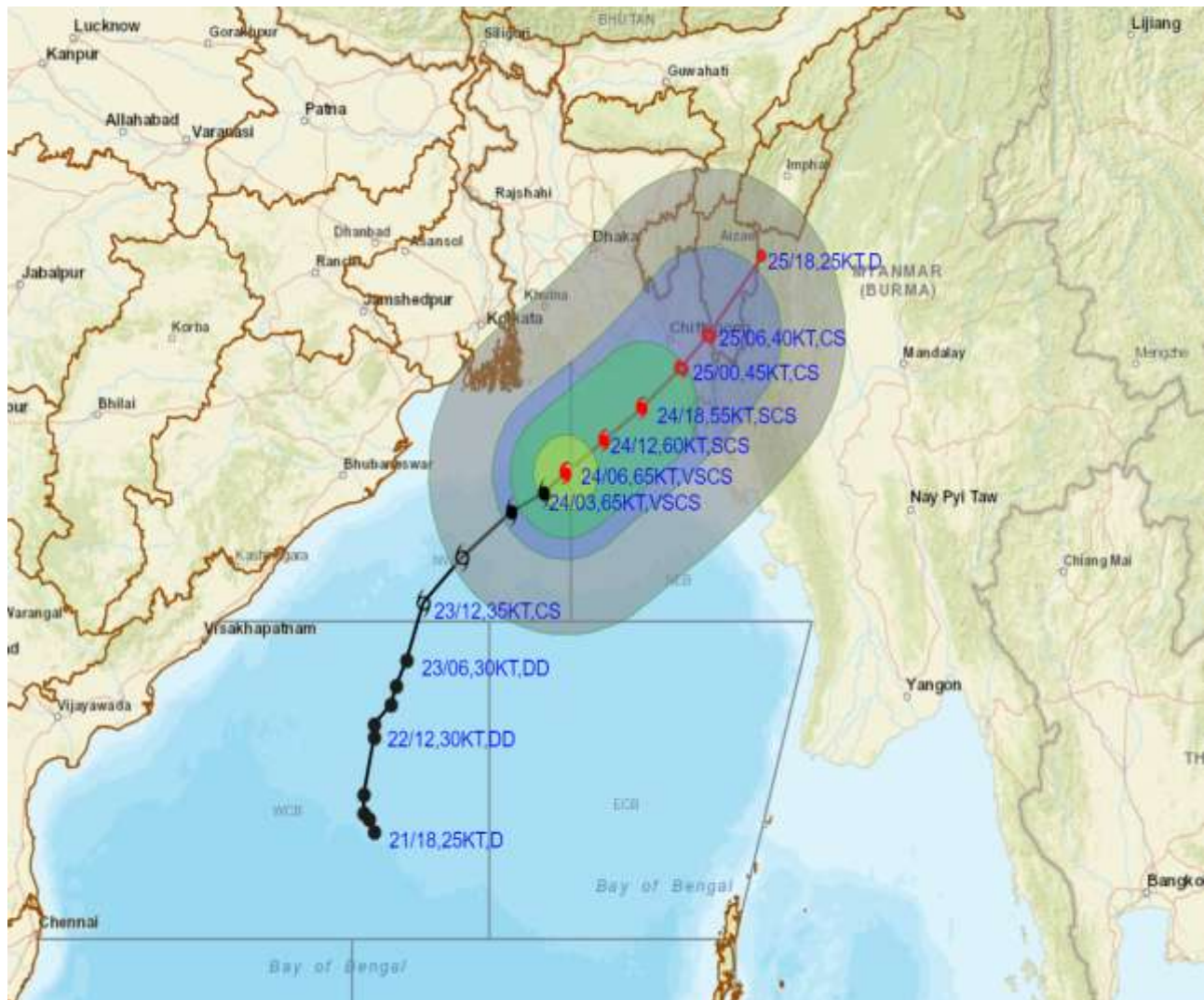
— FORECAST TRACK

▲ CONE OF UNCERTAINTY

Forecast	DISTANCE(KM) AND DIRECTION FROM STATIONS			
Date and Time	PARADIP (CWR)	DIGHA	KHEPUPARA	CHITTAGONG (AMBAGAN)
25.10.23/0600	650, ENE	530, E	240, ENE	80, E
25.10.23/1800	790, ENE	650, ENE	380, ENE	220, NE



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF VERY SEVERE CYCLONIC STORM "HAMOON" OVER NORTHWEST & ADJOINING NORTHEASTBAY OF BENGAL BASED ON 0600 UTC (1130 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)

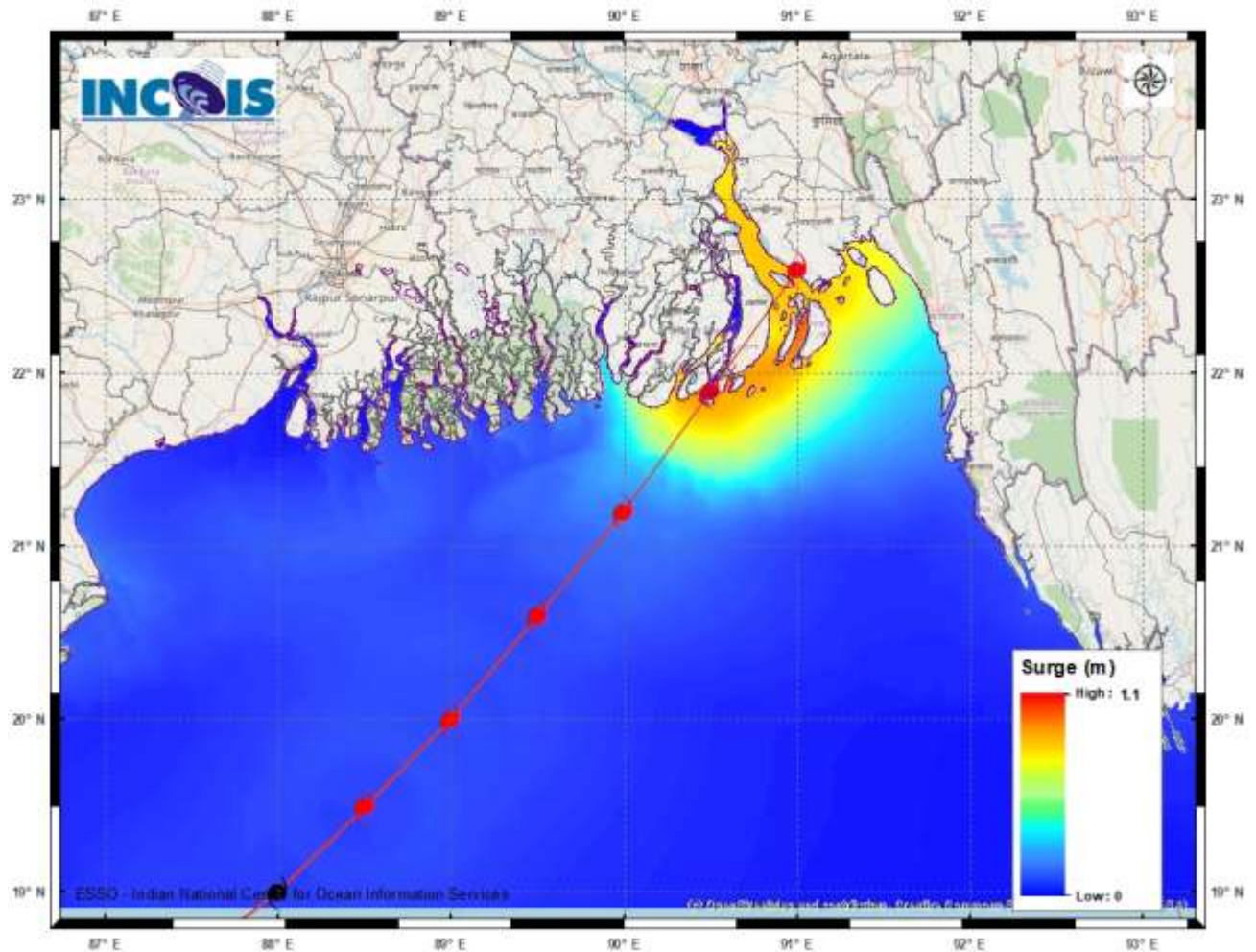
■ ≥ 64 (≥118 KMPH)

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: 24.10.2023/14:30AM to 25.10.2023/05:30AM



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



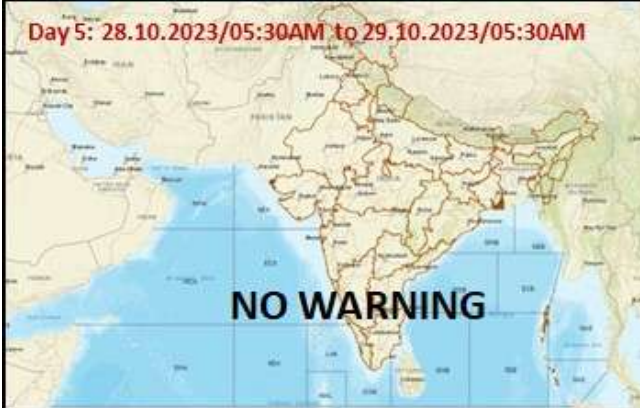
Day 3: 26.10.2023/05:30AM to 27.10.2023/05:30AM









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
	VSCS with Gale wind speed 110-160 kmph gusting to 175 kmph

Fishermen are advised not to venture into the marked areas.

WEATHER WARNING GRAPHICS

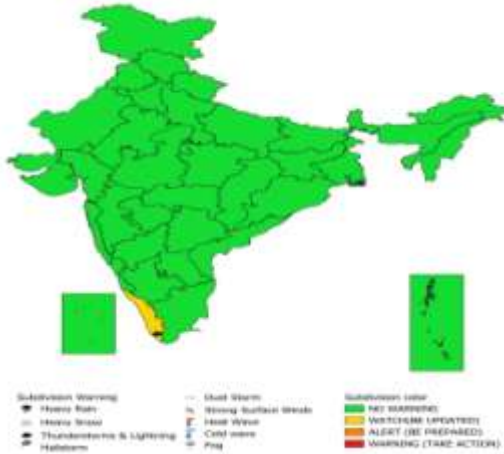
SUBDIVISIONWISE WEATHER WARNING FOR DAY 1
(24-10-2023)



SUBDIVISIONWISE WEATHER WARNING FOR DAY 2
(25-10-2023)



SUBDIVISIONWISE WEATHER WARNING FOR DAY 3
(26-10-2023)



SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
(27-10-2023)



SUBDIVISIONWISE WEATHER WARNING FOR DAY 5
(28-10-2023)



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