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Sub: (A) Very Severe Cyclonic Storm "Tej" (pronounced as Tej) over Westcentral Arabian Sea very close to Yemen coast and (B) Cyclonic Storm "Hamoon" (pronounced as Hamoon) over Northwest & adjoining Westcentral Bay of Bengal

# (A) Very Severe Cyclonic Storm "Tej" (pronounced as Tej) over Westcentral Arabian Sea very close to Yemen coast

The Very Severe Cyclonic Storm "Tej" (pronounced as Tej) over Westcentral Arabian Sea moved north-northwestwards with a speed of 9 kmph during past 6 hours and lay centered at 2330 hours IST of 23<sup>rd</sup> October over the westcentral Arabian sea very close to Yemen coast, near latitude 15.8°N and longitude 52.3°E, about 30 km south-southeast of Al Ghaidah (Yemen) and 230 km west-southwest of Salalah (Oman).

It is very likely to move northwestwards and cross Yemen coast close to south of Al-Ghaidah within a few hours as a *Very Severe Cyclonic Storm* with wind speed of 125-135 kmph gusting to 150 kmph. Landfall process continues and will be completed within a few hours.

Date/Time(IST)	Position (Lat. ⁰N/ long. ⁰E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
23.10.23/2330	15.8/52.3	125-135 gusting to 150	Very Severe Cyclonic Storm
24.10.23/0530	16.1/51.9	90-100 gusting to 110	Severe Cyclonic Storm
24.10.23/1130	16.4/51.5	45-55 gusting to 65	Depression
24.10.23/1730	16.7/51.1	25-35 gusting to 45	Well Marked Low Pressure Area

## Forecast track and intensity are given below:

## Warnings:

## (i) Wind warning (warning graphics enclosed):

## • Southwest Arabian Sea:

**Squally wind** speed reaching **40-50 kmph gusting to 60 kmph** is prevailing and likely to continue till 24<sup>th</sup> morning and decrease gradually thereafter.

## • Westcentral Arabian Sea:

Gale wind speed reaching 125-135 kmph gusting to 150 kmph is prevailing and likely to decrease rapidly becoming Gale wind speed reaching 90-100 kmph gusting to 110 kmph in the early morning of 24<sup>th</sup> October, squally wind speed reaching 45-55 kmph gusting to 65 kmph by noon of 24<sup>th</sup> October, and decrease gradually thereafter.

## (ii) Sea Condition

## • Westcentral Arabian Sea:

**Phenomenal** sea condition is prevailing and will continue till early hours of 24<sup>th</sup> October. It would improve gradually thereafter becoming **high to very rough** by 24<sup>th</sup> morning and rough to very rough by evening of 24<sup>th</sup> October. Thereafter, it would improve gradually.

## (iii) Fishermen Warning (Graphics attached):

Fishermen are advised not to venture into

- Southwest Arabian Sea till 24<sup>th</sup> October morning.
- ✤ Westcentral Arabian Sea till night of 24<sup>th</sup> October.

# (B) Cyclonic Storm "Hamoon" (pronounced as Hamoon) over Northwest & adjoining Westcentral Bay of Bengal

The Cyclonic Storm "Hamoon" (pronounced as Hamoon) over Northwest & adjoining Westcentral Bay of Bengal moved northeastwards with a speed of 18 kmph during past 6 hours, and lay centered at 2330 hours IST of 23<sup>rd</sup> October over the same region, near latitude 19.0°N and longitude 88.0°E, about 200 km southeast of Paradip (Odisha), 290 km south-southeast of Digha (West Bengal) and 400 km south-southwest of Khepupara (Bangladesh).

It is likely to intensify further into a severe cyclonic storm over northwest Bay of Bengal during next 6 hours. It is very likely to move nearly north-northeastwards and cross Bangladesh coast between Khepupara and Chittagong around noon of 25<sup>th</sup> October as a *Deep Depression.* 

Date/Time (IST)	Position (Lat. <sup>o</sup> N/ long. <sup>o</sup> E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
23.10.23/2330	19.0/88.0	80-90 gusting to 100	Cyclonic Storm
24.10.23/0530	19.5/88.5	90-100 gusting to 110	Severe Cyclonic Storm
24.10.23/1130	20.0/89.0	80-90 gusting to 100	Cyclonic Storm
24.10.23/1730	20.6/89.5	70-80 gusting to 90	Cyclonic Storm
24.10.23/2330	21.2/90.0	60-70 gusting to 80	Cyclonic Storm
25.10.23/1130	21.9/90.5	50-60 gusting to 70	Deep Depression
25.10.23/2330	22.6/91.0	25-35 gusting to 45	Well Marked Low Pressure Area

## Forecast track and intensity are given below:

# Warnings:

## (i) Rainfall Warning

**Manipur, Mizoram & Tripura and south Assam & Meghalaya:** Light to moderate rainfall at most places with isolated heavy rainfall over Mizoram and heavy to very rainfall over Tripura is likely on 24<sup>th</sup> October. Isolated heavy rainfall is likely over the same region on 25<sup>th</sup> October. Rainfall intensity will decrease on 26<sup>th</sup> with light to moderate rainfall at a few places over the region.

Light to moderate rainfall is likely at many places over south Assam and eastern Meghalaya on 24<sup>th</sup> and 25<sup>th</sup> October with isolated heavy rainfall over south Assam.

**Coastal Districts of Odisha:** Light to moderate rainfall at most places are likely on 24<sup>th</sup> October.

**Coastal Districts of West Bengal:** Light to moderate rainfall at most places with isolated heavy rainfall over coastal areas of West Bengal likely on 24<sup>th</sup> October.

## (ii) Wind warning (warning graphics enclosed):

## • North Bay of Bengal:

Gale wind speed reaching 80-90 kmph gusting to 100 kmph is prevailing and likely to become 90-100 kmph gusting 110 kmph from 24<sup>th</sup> morning to noon. It would decrease gradually thereafter becoming Gale wind speed reaching 70-80 kmph gusting to 90 kmph by 24<sup>th</sup> evening, and Squally wind speed reaching 50-60 kmph gusting to 70 kmph by 25<sup>th</sup> noon and would decrease thereafter.

- Adjoining Westcentral Bay of Bengal: Squally wind speed reaching 75-85 kmph gusting to 95 kmph is prevailing and likely to continue till 24<sup>th</sup> October noon. It is likely to decrease gradually thereafter becoming squally wind speed reaching 50-60 kmph gusting 70 kmph by 24<sup>th</sup> evening and 40-50 kmph gusting 60 kmph till 25<sup>th</sup> morning.
- Adjoining eastcentral Bay of Bengal: Squally wind speed reaching 45-55 kmph gusting to 65 kmph is likely to increase gradually becoming 50-60 kmph gusting to 70 kmph on 24<sup>th</sup> and decrease from 25<sup>th</sup> onwards.
- Along & off Odisha, West Bengal, Bangladesh and north Myanmar coasts:

Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely on 24<sup>th</sup> along & off Odisha coast. Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to commence along & off West Bengal, Bangladesh and North Myanmar coasts from 24<sup>th</sup> morning. It would gradually increase becoming 55-65 kmph gusting to 75 kmph along & off Bangladesh coast, 50-60 kmph gusting to 70 kmph along & off north Myanmar coast and 45-55 kmph gusting to 65 along & off west Bengal coast on 25<sup>th</sup> 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 25<sup>th</sup> October.

## (iii) Sea Condition

• North Bay of Bengal:

**Very Rough to High sea condition** is prevailing and likely to continue till 24<sup>th</sup> and very rough on 25<sup>th</sup> October.

- Adjoining westcentral Bay of Bengal: Very Rough to high sea condition is prevailing and likely to continue till 24<sup>th</sup> October and rough to very rough on 25<sup>th</sup> October. It is likely to improve gradually thereafter.
- Adjoining eastcentral Bay of Bengal: Moderate to rough sea condition is prevailing and likely to continue till 24<sup>th</sup> October and rough to very rough on 25<sup>th</sup> October. It is likely to improve gradually thereafter.
- Along & off Odisha, West Bengal, Bangladesh and north Myanmar coasts: Rough sea condition is likely on 23<sup>rd</sup> and rough to very rough on 24<sup>th</sup> and 25<sup>th</sup> October.

## (iv) Fishermen Warning (Graphics attached):

Fishermen are advised not to venture into

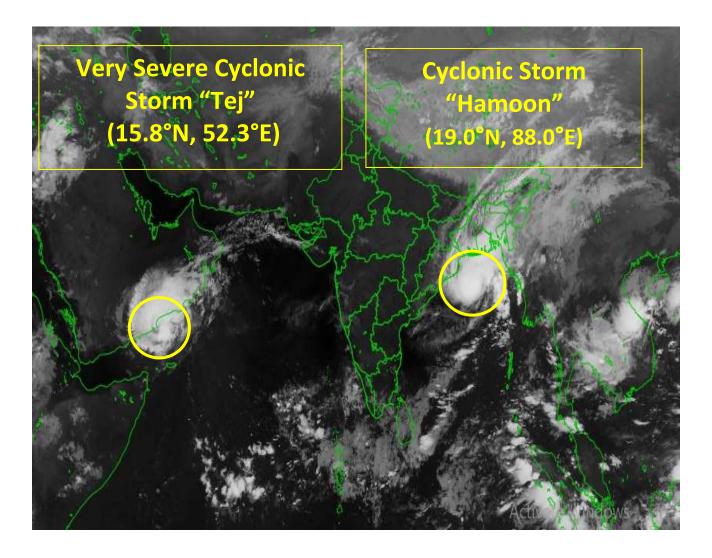
- ✤ Adjoining eastcentral Bay of Bengal from 24<sup>th</sup> to 25<sup>th</sup> October.
- ✤ Westcentral Bay of Bengal till 24<sup>th</sup> October.
- North Bay of Bengal and along & off Odisha, West Bengal, Bangladesh and north Myanmar coasts during 24<sup>th</sup> to 25<sup>th</sup> October.

Both the systems are under continuous surveillance and the next bulletin will be issued at 0530 hours IST of 24<sup>th</sup> October, 2023.

### (Akhil Srivastava) Scientist D, Cyclone Warning Division, New Delhi

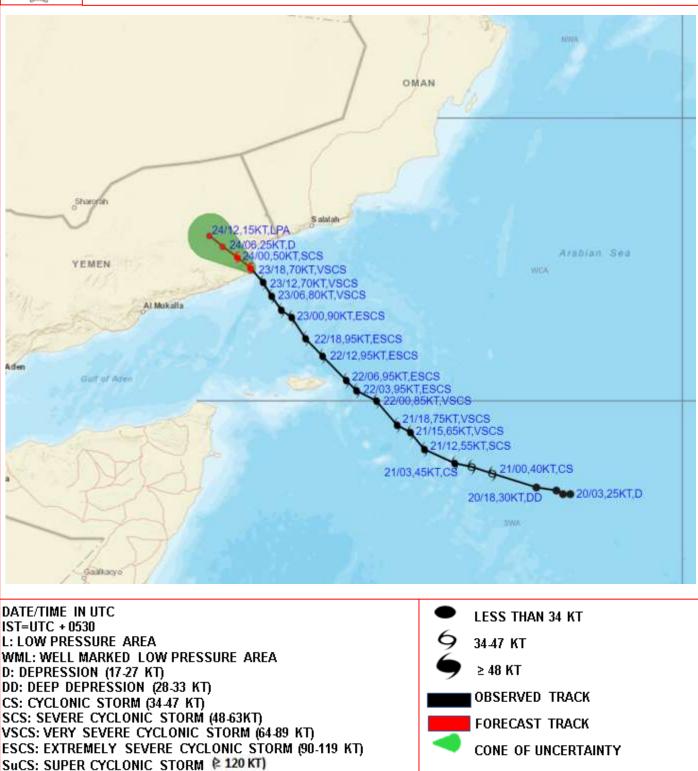
Copy to: ACWC Mumbai/ ACWC Chennai/ ACWC Kolkata/CWC Ahmedabad/CWC Bhubaneswar/CWC Vishakhapatnam/CWC Thiruvananthapuram/MC Goa

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.



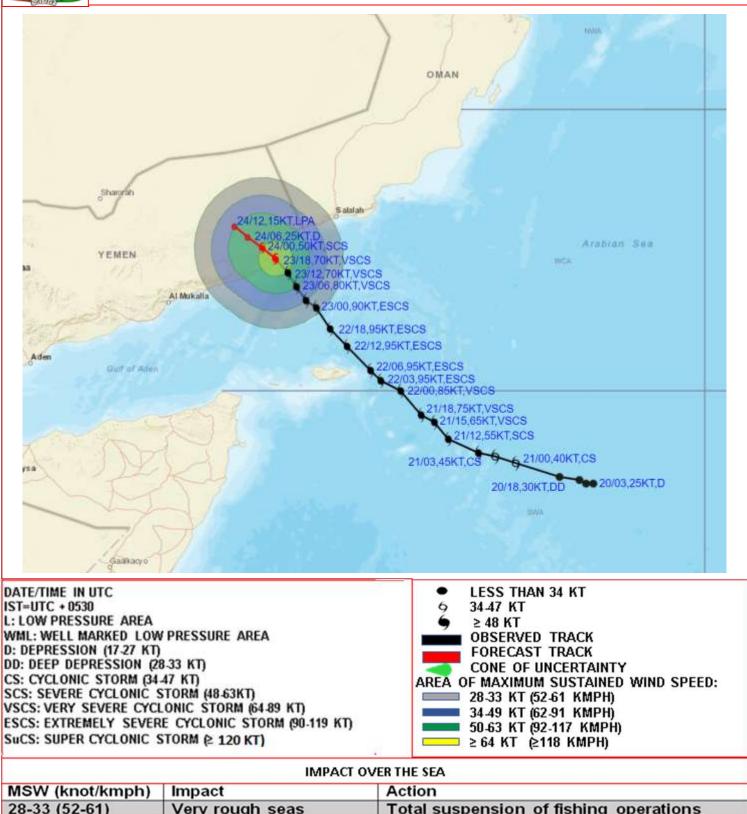


OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF VERY SEVERE CYCLONIC STORM "TEJ" OVER WESTCENTRAL ARABIAN SEA BASED ON 1800 UTC (2330 IST) OF 23<sup>RD</sup> OCTOBER 2023.



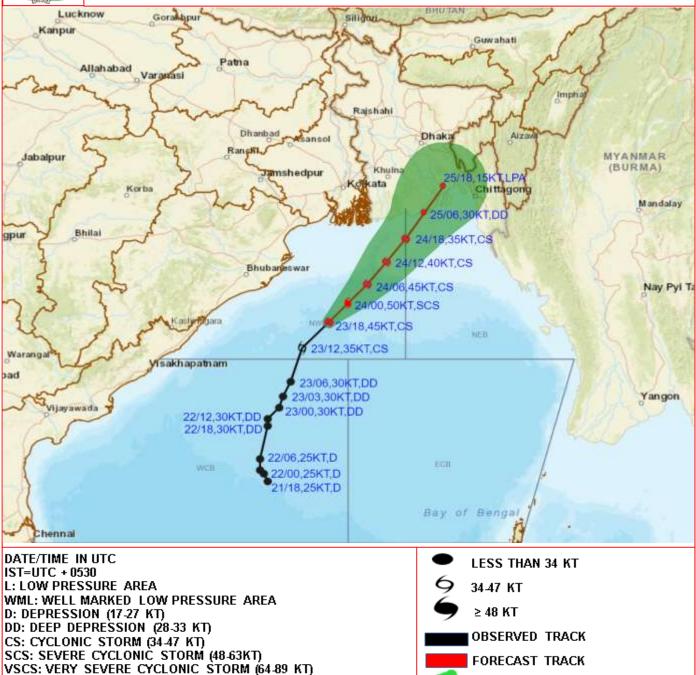


OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF VERY SEVERE CYCLONIC STORM "TEJ" OVER WESTCENTRAL ARABIAN SEA BASED ON 1800 UTC (2330 IST) OF 23<sup>RD</sup> OCTOBER 2023.



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

OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF CYCLONIC STORM "HAMOON" OVER NORTHWEST AND ADJOINING WESTCENTRAL BAY OF BENGAL BASED ON 1800 UTC (2330 IST) OF 23RD OCTOBER 2023.



Forecast	DISTANCE(KM) AN	<b>ND DIRECTION</b>	N FROM STATIONS	
Date and Time	PARADIP (CWR)	DIGHA	KHEPUPARA	
24.10.23/1800	360, ENE	270, E	90, SSW	
25.10.23/0600	440, ENE	320, E	30, ESE	
25.10.23/1800	520, ENE	380, ENE	100, NE	

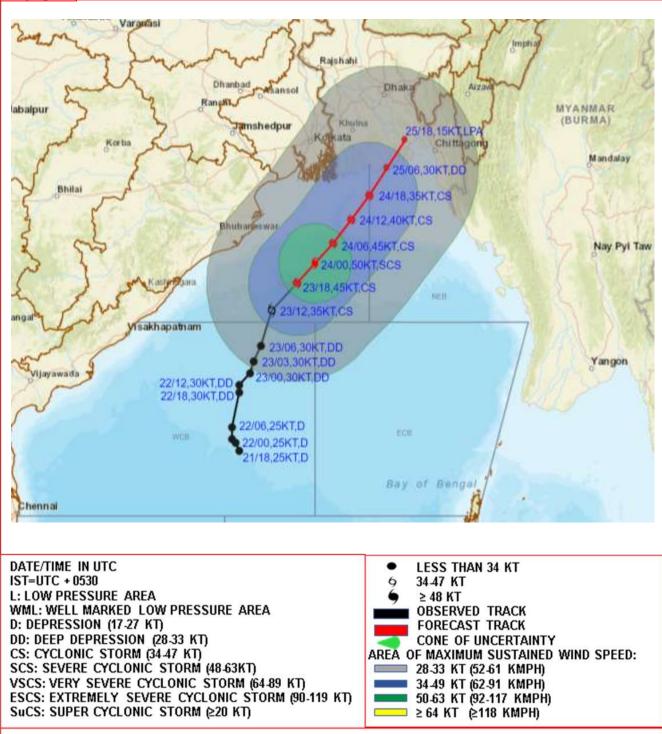
CONE OF UNCERTAINTY

ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

SuCS: SUPER CYCLONIC STORM (2 120 KT)



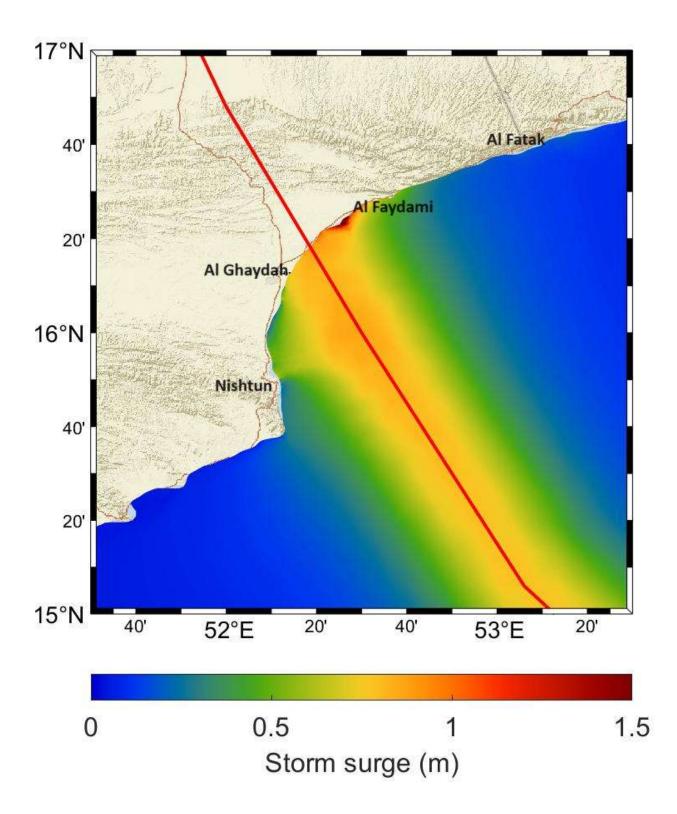
OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM "HAMOON" OVER NORTHWEST AND ADJOINING WESTCENTRAL BAY OF BENGAL BASED ON 1800 UTC (2330 IST) OF 23RD OCTOBER 2023.



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

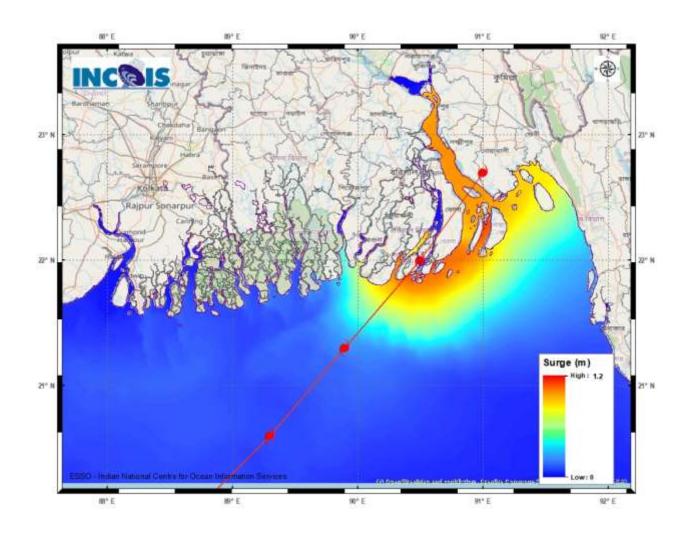
### STORM SURGE GUIDANCE FOR YEMEN:

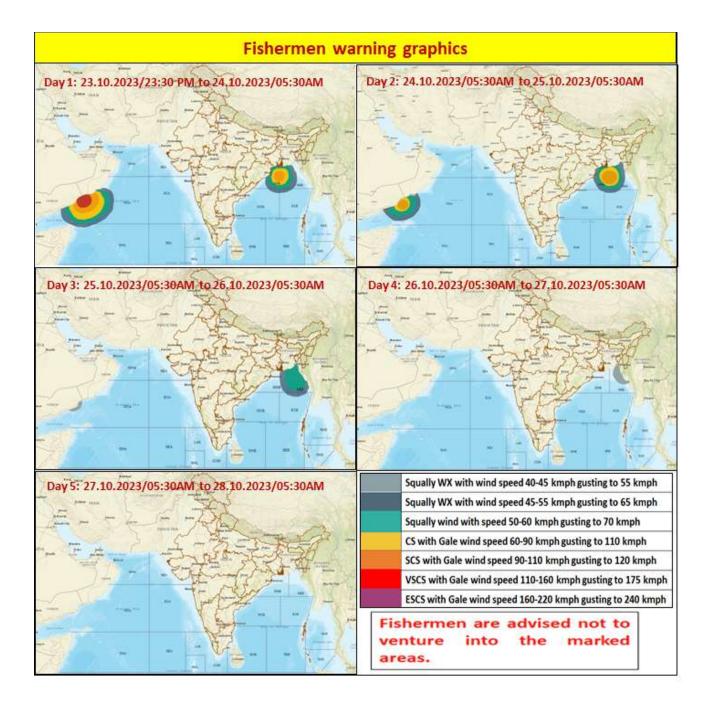
Storm surge of about 2 meter height above the astronomical tide is Likely to inundate low lying areas between al Ghaydah and al Faydami near the landfall point at the time of landfall.



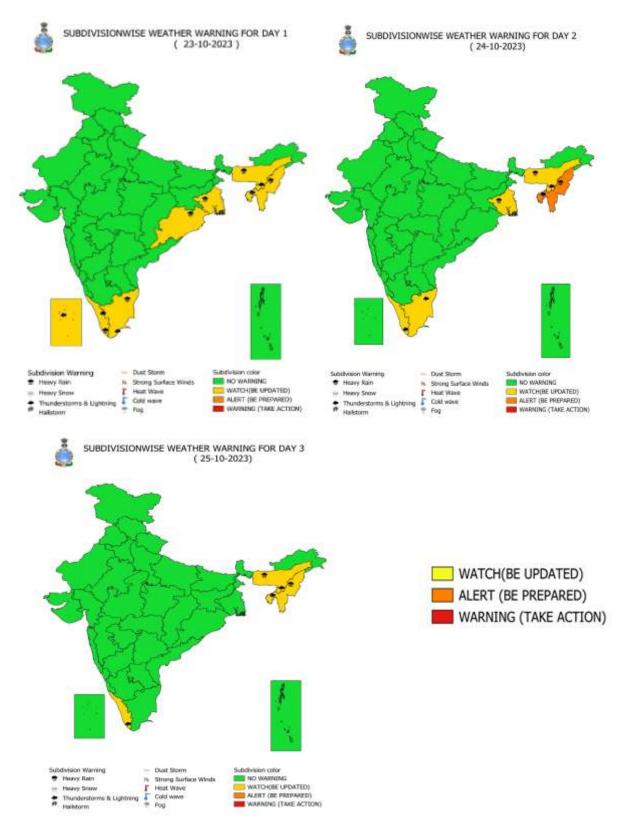
### STORM SURGE GUIDANCE FOR BANGLADESH:

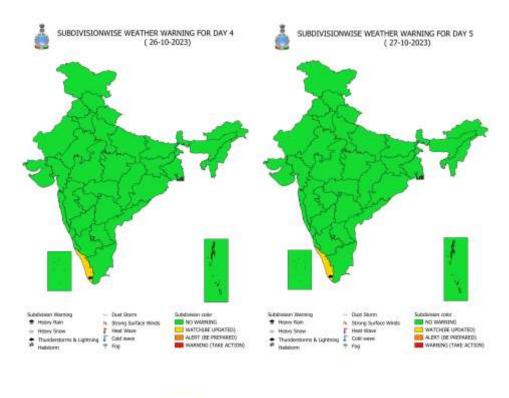
Storm surge of about 1.0-1.5 metre height above the astronomical tide is likely to inundate low lying areas between Khepupara and Chittagong (Bangladesh) around the time of landfall.





#### WEATHER WARNING GRAPHICS





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